

GOMOS Daily Report 01-DEC-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	03DEC2007 05:44:23
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (01DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (02DEC2007 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)

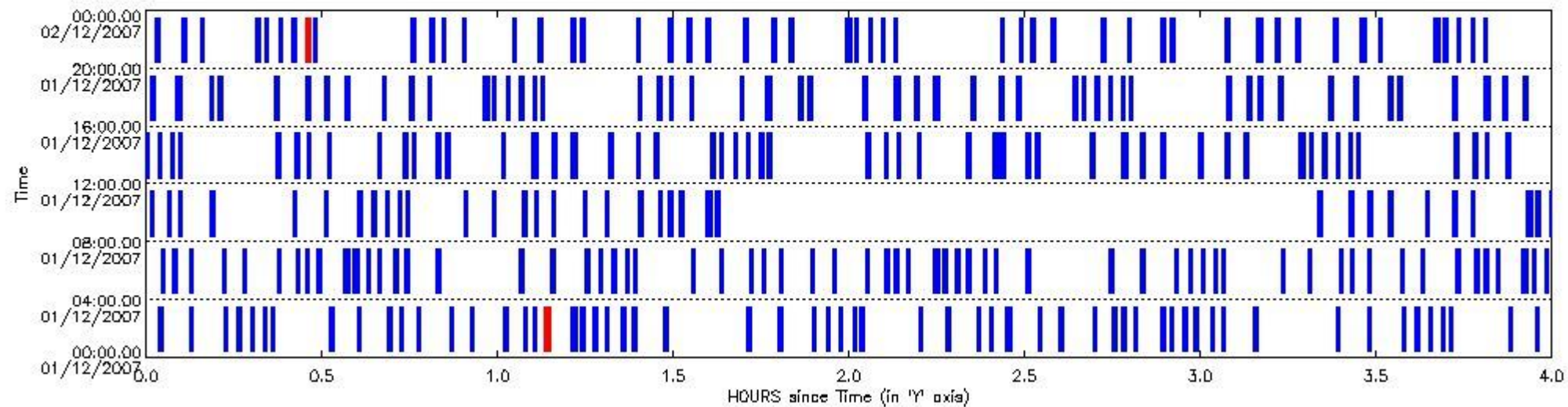
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

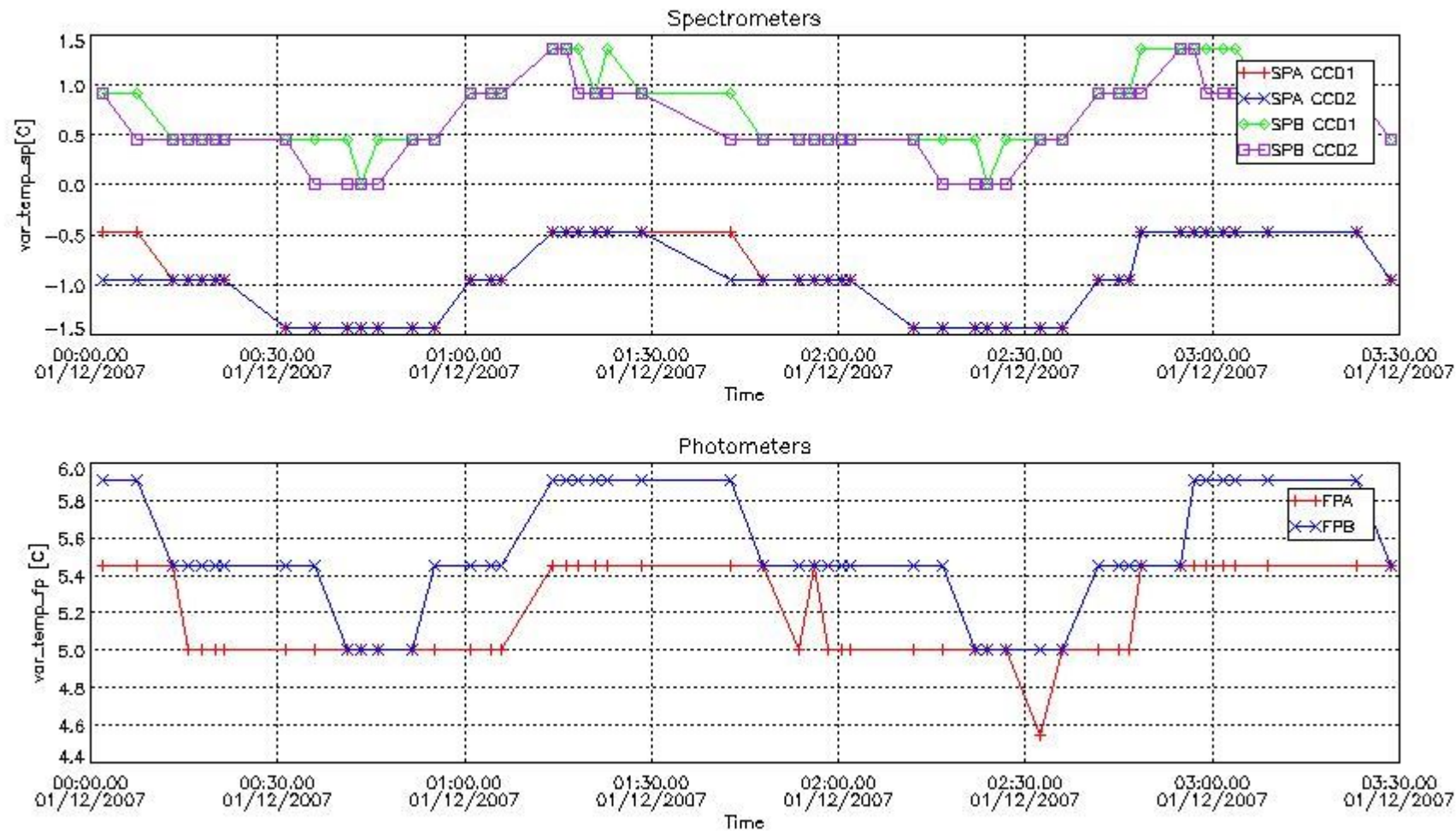
UTC start time	Star name	Star ID	Orbit
01-DEC-2007 01:08:00	lotCen	123	30073
01-DEC-2007 20:27:08	39DelPer	175	30085

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_1PNPDE20071201_000158_000000452063_00460_30073_8503.N1	01-DEC-2007 00:01:58	Straylight	44.500	165	34Gam Eri	2.9500	3200.0	89	30073	No
2	GOM_TRA_1PNPDE20071201_000720_000000412063_00460_30073_8504.N1	01-DEC-2007 00:07:20	Twilight_and_stray	40.500	94	92Alp Cet	2.5260	3100.0	81	30073	No
3	GOM_TRA_1PNPDE20071201_001309_000000382063_00460_30073_8505.N1	01-DEC-2007 00:13:09	Bright	37.500	146	25Eta Tau	2.8730	15200.	75	30073	No
4	GOM_TRA_1PNPDE20071201_001532_000000392063_00460_30073_8506.N1	01-DEC-2007 00:15:32	Bright	38.500	150	44Zet Per	2.8900	28000.	77	30073	No
5	GOM_TRA_1PNPDE20071201_001745_000000372063_00460_30073_8507.N1	01-DEC-2007 00:17:45	Bright	36.500	79	26Bet Per	2.3100	13100.	73	30073	No
6	GOM_TRA_1PNPDE20071201_001959_000000362063_00460_30073_8508.N1	01-DEC-2007 00:19:59	Bright	35.500	175	39Del Per	3.0100	19400.	71	30073	No
7	GOM_TRA_1PNPDE20071201_002118_000000352063_00460_30073_8509.N1	01-DEC-2007 00:21:18	Bright	34.500	160	23Gam Per	2.9300	4700.0	69	30073	No
8	GOM_TRA_1PNPDE20071201_003121_000000352063_00460_30073_8510.N1	01-DEC-2007 00:31:21	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	30073	No
9	GOM_TRA_1PNPDE20071201_003601_000000382063_00460_30073_8511.N1	01-DEC-2007 00:36:01	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30073	No

10	GOM_TRA_1PNPDE20071201_004115_000000402063_00460_30073_8512.N1	01-DEC-2007 00:41:15	Bright	39.500	32	77Eps UMa	1.7630	11000.	79	30073	No
11	GOM_TRA_1PNPDE20071201_004318_000000362063_00460_30073_8513.N1	01-DEC-2007 00:43:18	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	30073	No
12	GOM_TRA_1PNPDE20071201_004612_000000342063_00460_30073_8514.N1	01-DEC-2007 00:46:12	Bright	33.500	180	27Gam Boo	3.0400	8000.0	67	30073	No
13	GOM_TRA_1PNPDE20071201_005143_000000342063_00460_30073_8515.N1	01-DEC-2007 00:51:43	Bright	33.500	3	16Alp Boo	-0.050000	4250.0	67	30073	No
14	GOM_TRA_1PNPDE20071201_005517_000000402063_00460_30073_8516.N1	01-DEC-2007 00:55:17	Bright	40.000	138	47Eps Vir	2.8280	4700.0	80	30073	No
15	GOM_TRA_1PNPDE20071201_010104_000000402063_00460_30073_8639.N1	01-DEC-2007 01:01:04	Bright	39.500	15	67Alp Vir	0.97600	28000.	79	30073	No
16	GOM_TRA_1PNPDE20071201_010420_000000462063_00460_30073_8640.N1	01-DEC-2007 01:04:20	Twilight	45.500	163	7Del Crv	2.9450	11000.	91	30073	No
17	GOM_TRA_1PNPDE20071201_010558_000000442063_00460_30073_8641.N1	01-DEC-2007 01:05:58	Twilight	44.000	106	9Bet Crv	2.6480	5600.0	88	30073	No
18	GOM_TRA_1PNPDE20071201_011409_000000532063_00460_30073_8642.N1	01-DEC-2007 01:14:09	Dark	53.000	26	Gam Cru	1.6240	2900.0	106	30073	No
19	GOM_TRA_1PNPDE20071201_011618_000000442063_00461_30074_8643.N1	01-DEC-2007 01:16:18	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	30074	No
20	GOM_TRA_1PNPDE20071201_011818_000000382063_00461_30074_8644.N1	01-DEC-2007 01:18:18	Dark	37.500	124	The Car	2.7640	30000.	75	30074	No
21	GOM_TRA_1PNPDE20071201_012105_000000402063_00461_30074_8645.N1	01-DEC-2007 01:21:05	Dark	39.500	29	Bet Car	1.6720	10200.	79	30074	No
22	GOM_TRA_1PNPDE20071201_012257_000000422063_00461_30074_8646.N1	01-DEC-2007 01:22:57	Dark	41.500	41	Eps Car	1.8600	4100.0	83	30074	No
23	GOM_TRA_1PNPDE20071201_012819_000000472063_00461_30074_8647.N1	01-DEC-2007 01:28:19	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	30074	No
24	GOM_TRA_1PNPDE20071201_014234_000000442063_00461_30074_8648.N1	01-DEC-2007 01:42:34	Straylight	44.000	165	34Gam Eri	2.9500	3200.0	88	30074	No
25	GOM_TRA_1PNPDE20071201_014756_000000422063_00461_30074_8649.N1	01-DEC-2007 01:47:56	Twilight	42.000	94	92Alp Cet	2.5260	3100.0	84	30074	No
26	GOM_TRA_1PNPDE20071201_015345_000000402063_00461_30074_8650.N1	01-DEC-2007 01:53:45	Bright	39.500	146	25Eta Tau	2.8730	15200.	79	30074	No
27	GOM_TRA_1PNPDE20071201_015608_000000392063_00461_30074_8651.N1	01-DEC-2007 01:56:08	Bright	38.500	150	44Zet Per	2.8900	28000.	77	30074	No
28	GOM_TRA_1PNPDE20071201_015821_000000342063_00461_30074_8652.N1	01-DEC-2007 01:58:21	Bright	34.000	79	26Bet Per	2.3100	13100.	68	30074	No
29	GOM_TRA_1PNPDE20071201_020035_000000372063_00461_30074_8653.N1	01-DEC-2007 02:00:35	Bright	36.500	175	39Del Per	3.0100	19400.	73	30074	No
30	GOM_TRA_1PNPDE20071201_020154_000000382063_00461_30074_8654.N1	01-DEC-2007 02:01:54	Bright	37.500	160	23Gam Per	2.9300	4700.0	75	30074	No
31	GOM_TRA_1PNPDE20071201_021157_000000342063_00461_30074_8655.N1	01-DEC-2007 02:11:57	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	30074	No
32	GOM_TRA_1PNPDE20071201_021637_000000382063_00461_30074_8820.N1	01-DEC-2007 02:16:37	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30074	No
33	GOM_TRA_1PNPDE20071201_022151_000000372063_00461_30074_8821.N1	01-DEC-2007 02:21:51	Bright	36.500	32	77Eps UMa	1.7630	11000.	73	30074	No
34	GOM_TRA_1PNPDE20071201_022354_000000352063_00461_30074_8822.N1	01-DEC-2007 02:23:54	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	30074	No
35	GOM_TRA_1PNPDE20071201_022648_000000522063_00461_30074_8823.N1	01-DEC-2007 02:26:48	Bright	52.000	180	27Gam Boo	3.0400	8000.0	104	30074	No
36	GOM_TRA_1PNPDE20071201_023220_000000342063_00461_30074_8824.N1	01-DEC-2007 02:32:20	Bright	34.000	3	16Alp Boo	-0.050000	4250.0	68	30074	No
37	GOM_TRA_1PNPDE20071201_023553_000000402063_00461_30074_8825.N1	01-DEC-2007 02:35:53	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	30074	No
38	GOM_TRA_1PNPDE20071201_024140_000000402063_00461_30074_8826.N1	01-DEC-2007 02:41:40	Bright	39.500	15	67Alp Vir	0.97600	28000.	79	30074	No
39	GOM_TRA_1PNPDE20071201_024457_000000442063_00461_30074_8827.N1	01-DEC-2007 02:44:57	Twilight	43.500	163	7Del Crv	2.9450	11000.	87	30074	No
40	GOM_TRA_1PNPDE20071201_024634_000000432063_00461_30074_8828.N1	01-DEC-2007 02:46:34	Twilight	43.000	106	9Bet Crv	2.6480	5600.0	86	30074	No
41	GOM_TRA_1PNPDE20071201_024836_000000372063_00461_30074_8829.N1	01-DEC-2007 02:48:36	Dark	37.000	123	lot Cen	2.7500	10200.	74	30074	No
42	GOM_TRA_1PNPDE20071201_025445_000000432063_00461_30074_8830.N1	01-DEC-2007 02:54:45	Dark	43.000	26	Gam Cru	1.6240	2900.0	86	30074	No
43	GOM_TRA_1PNPDE20071201_025655_000000452063_00462_30075_8831.N1	01-DEC-2007 02:56:55	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	30075	No
44	GOM_TRA_1PNPDE20071201_025854_000000392063_00462_30075_8832.N1	01-DEC-2007 02:58:54	Dark	38.500	124	The Car	2.7640	30000.	77	30075	No
45	GOM_TRA_1PNPDE20071201_030141_000000392063_00462_30075_8833.N1	01-DEC-2007 03:01:41	Dark	38.500	29	Bet Car	1.6720	10200.	77	30075	No
46	GOM_TRA_1PNPDE20071201_030333_000000442063_00462_30075_8834.N1	01-DEC-2007 03:03:33	Dark	44.000	41	Eps Car	1.8600	4100.0	88	30075	No
47	GOM_TRA_1PNPDE20071201_030856_000000582063_00462_30075_8835.N1	01-DEC-2007 03:08:56	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	30075	No
48	GOM_TRA_1PNPDE20071201_032310_000000422063_00462_30075_8836.N1	01-DEC-2007 03:23:10	Straylight	42.000	165	34Gam Eri	2.9500	3200.0	84	30075	No
49	GOM_TRA_1PNPDE20071201_032832_000000432063_00462_30075_8837.N1	01-DEC-2007 03:28:32	Twilight	42.500	94	92Alp Cet	2.5260	3100.0	85	30075	No

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



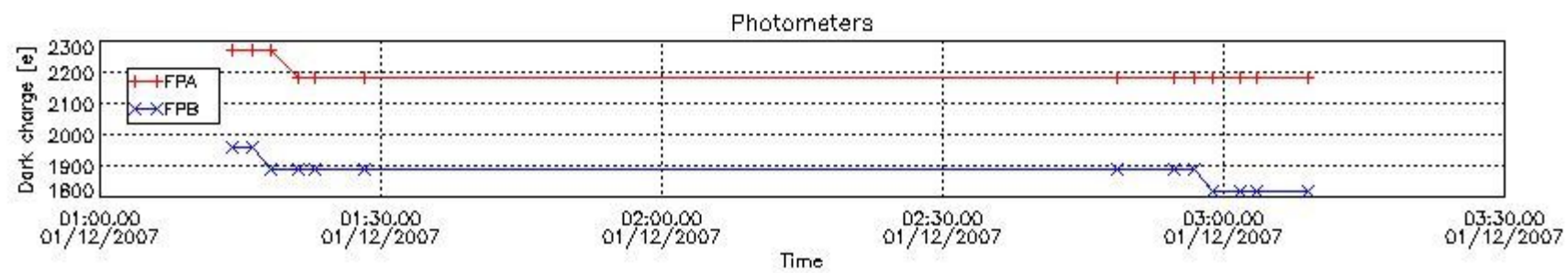
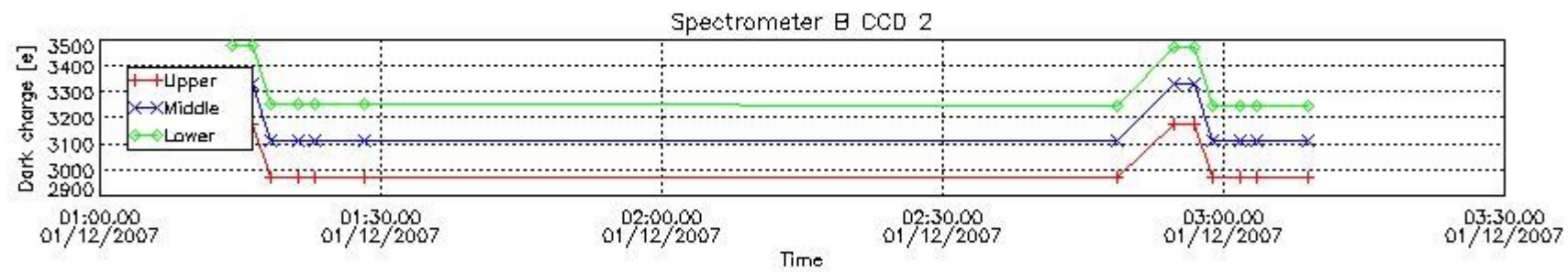
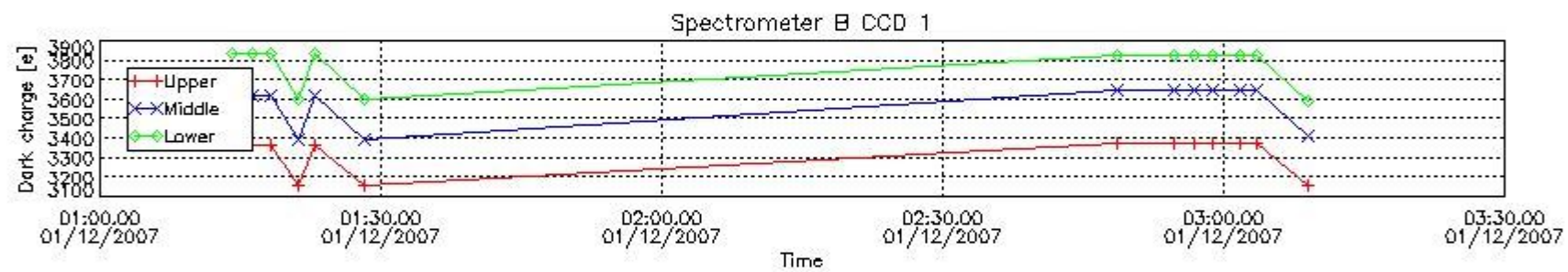
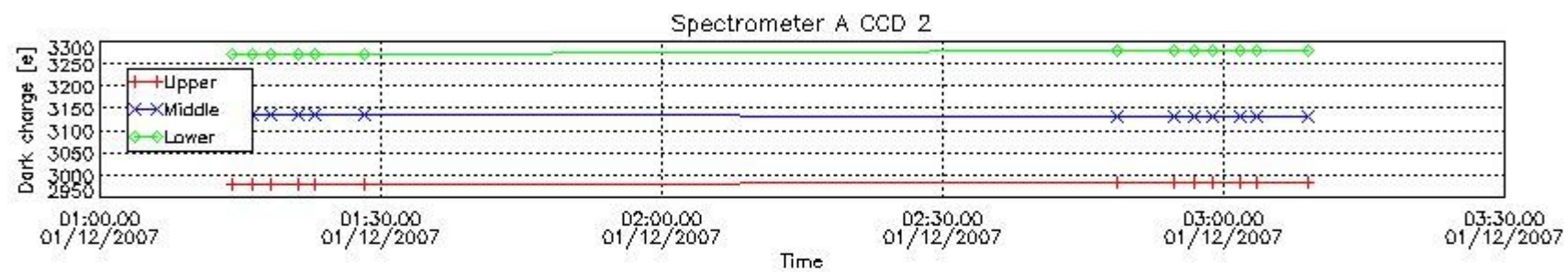
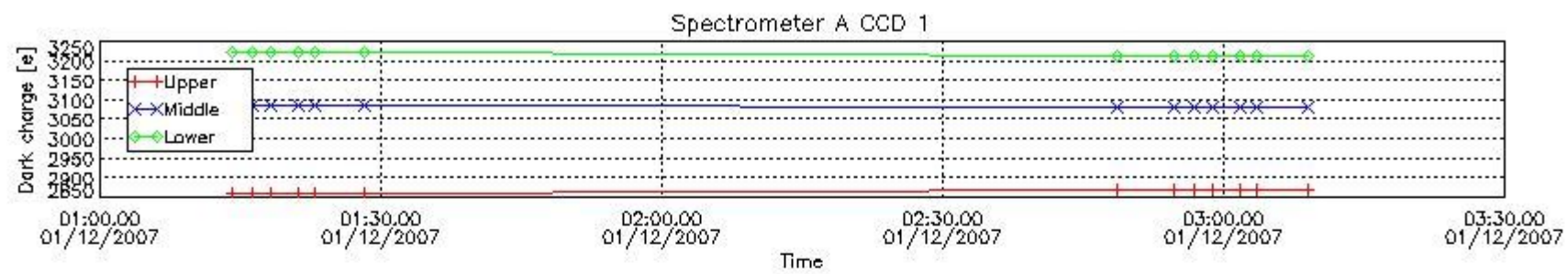
4. Overview of dark signal processing per product

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



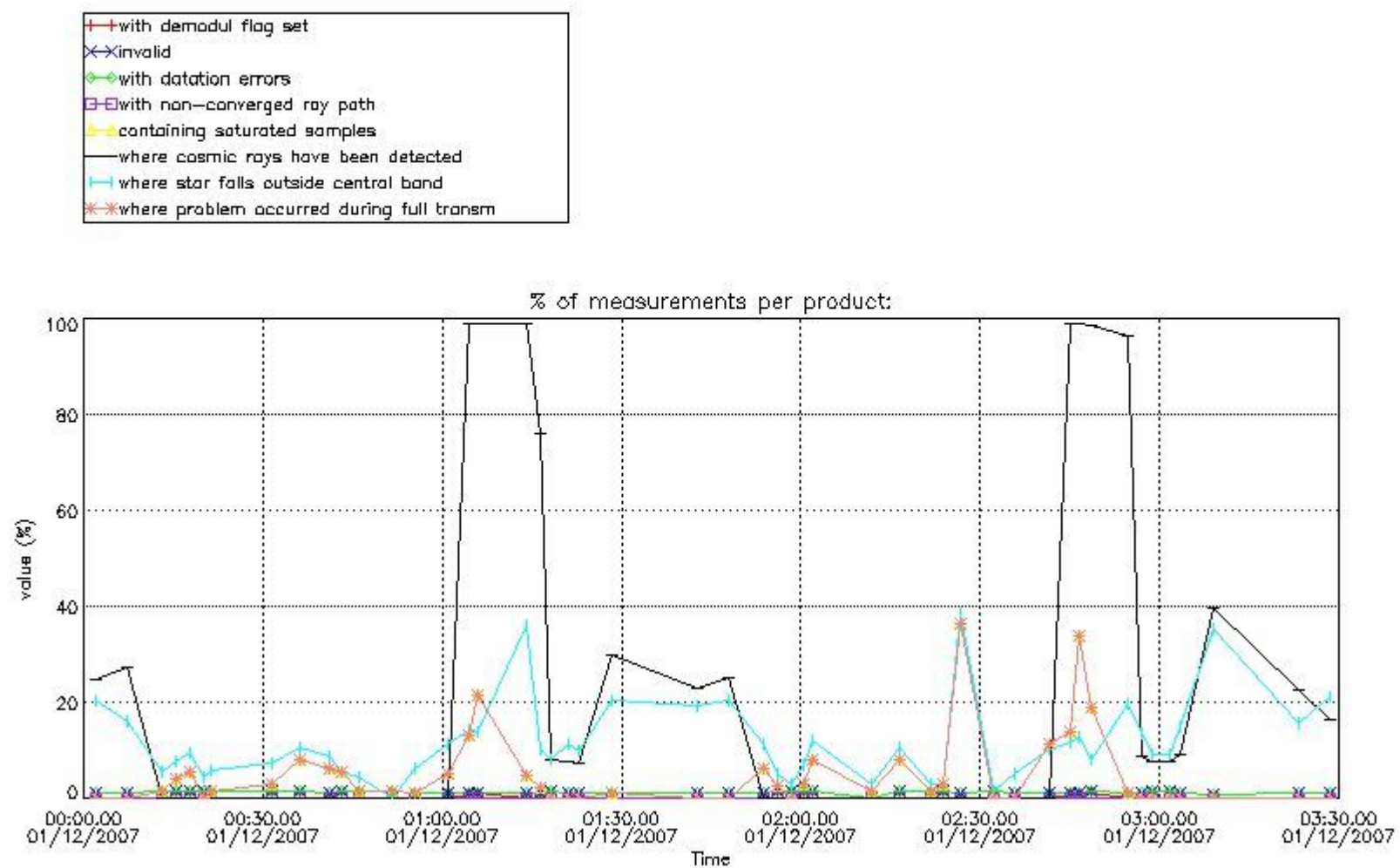
5. Demodulation flag and quality information monitoring

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.

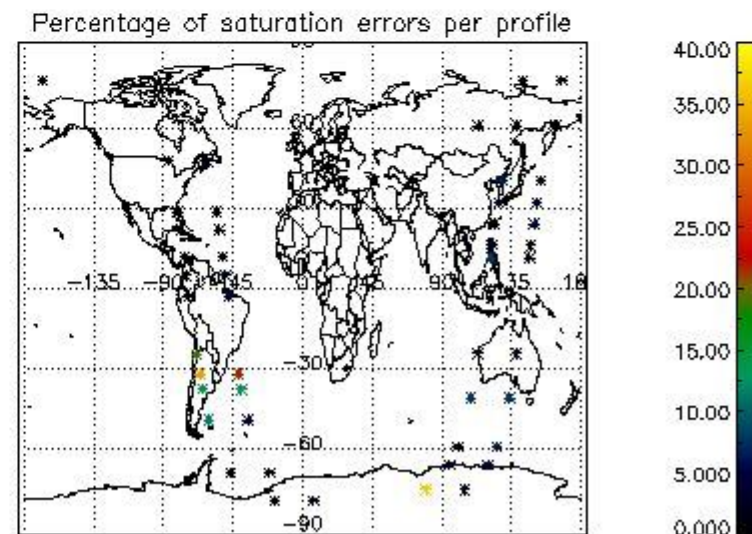
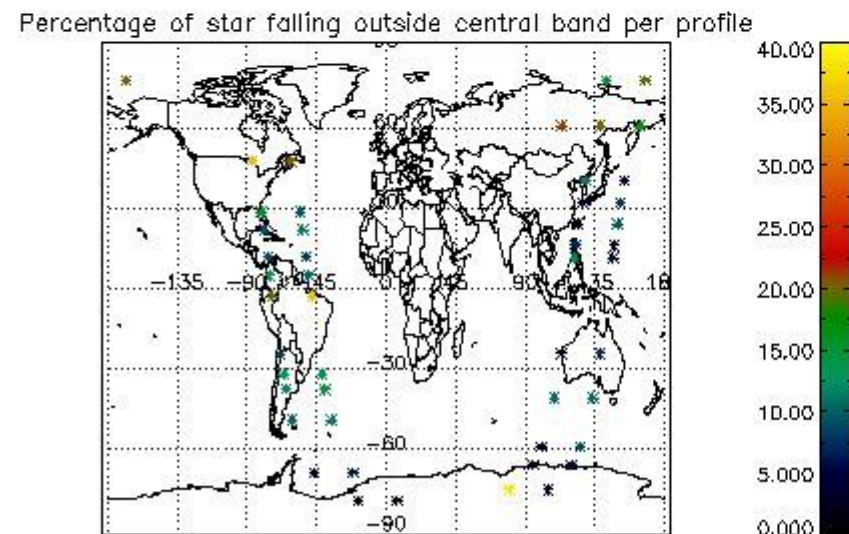
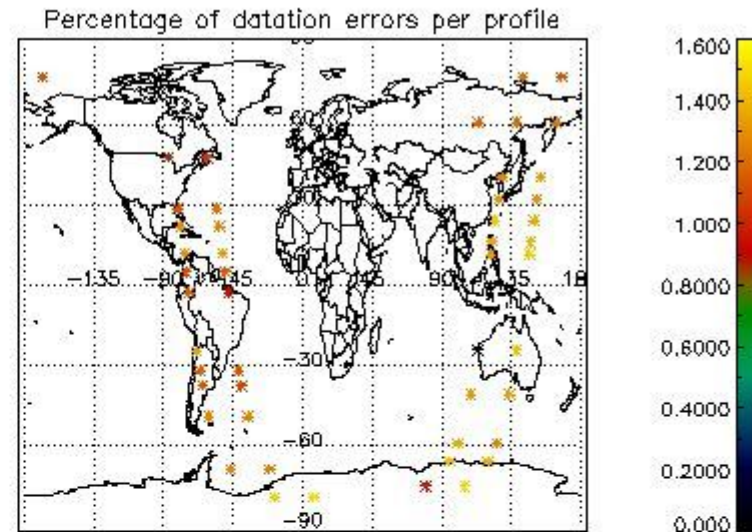
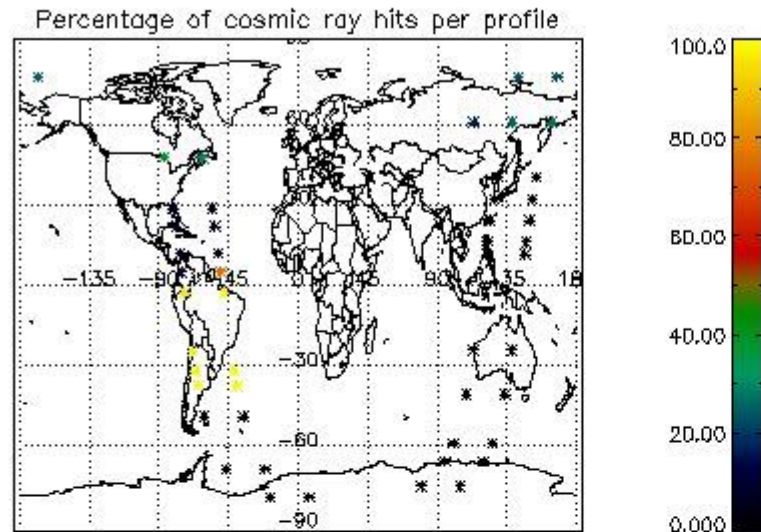
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.4082 %
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)



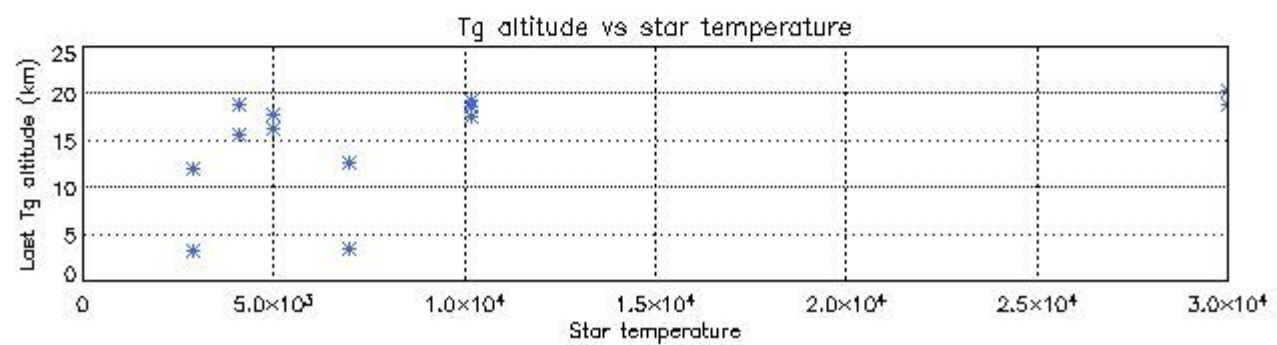
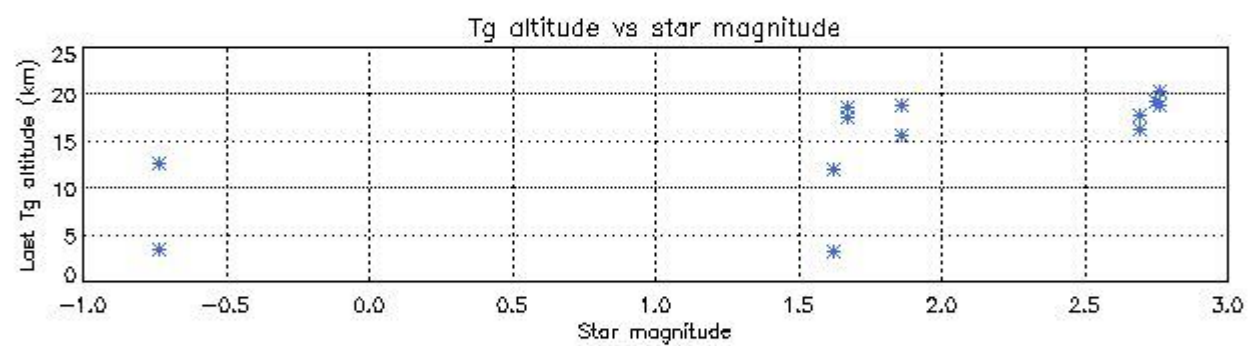
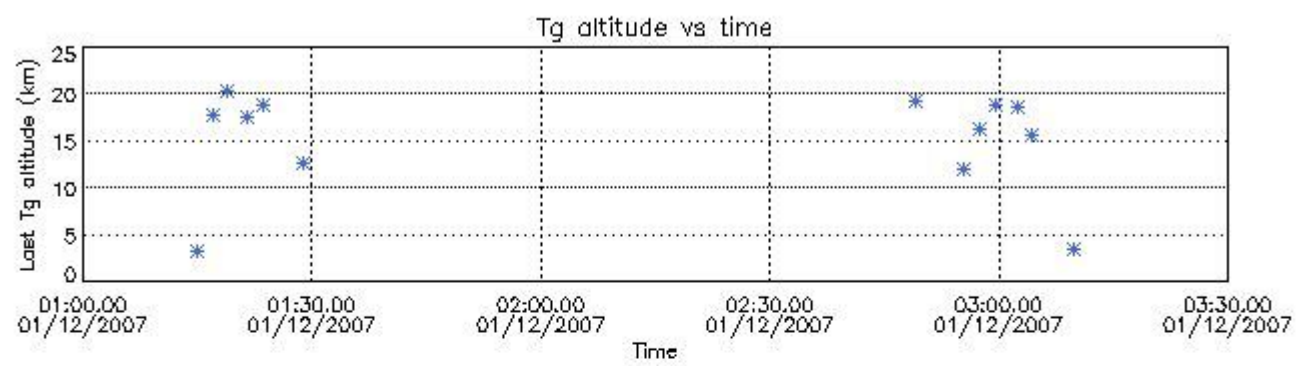
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.901	20.805	15.496
St. deviation:	5.7118	4.4987	1.0488
Maximum:	20.211	25.915	16.238
Minimum:	3.2494	3.7485	14.754
Number of data:	13.000	26.000	2.0000

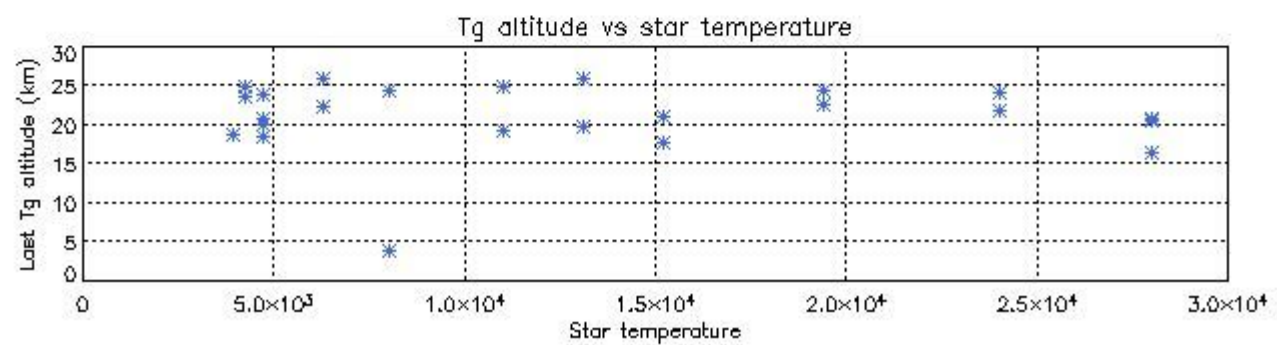
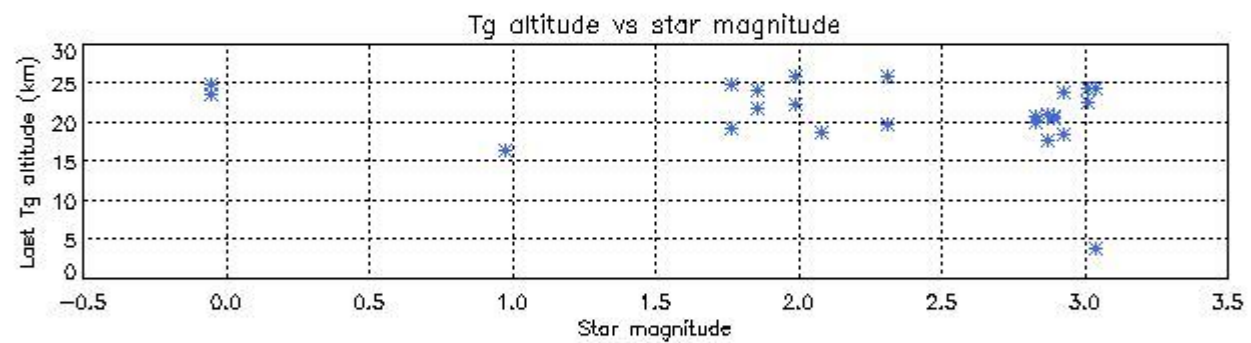
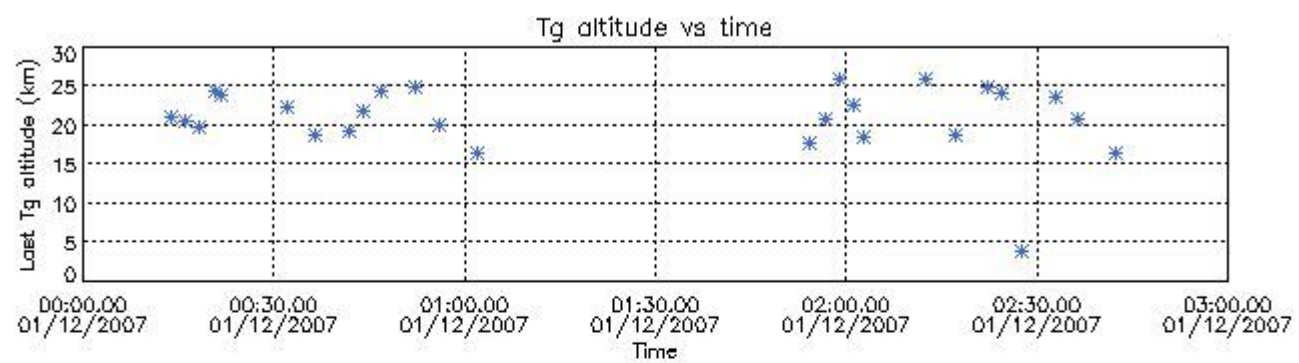
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



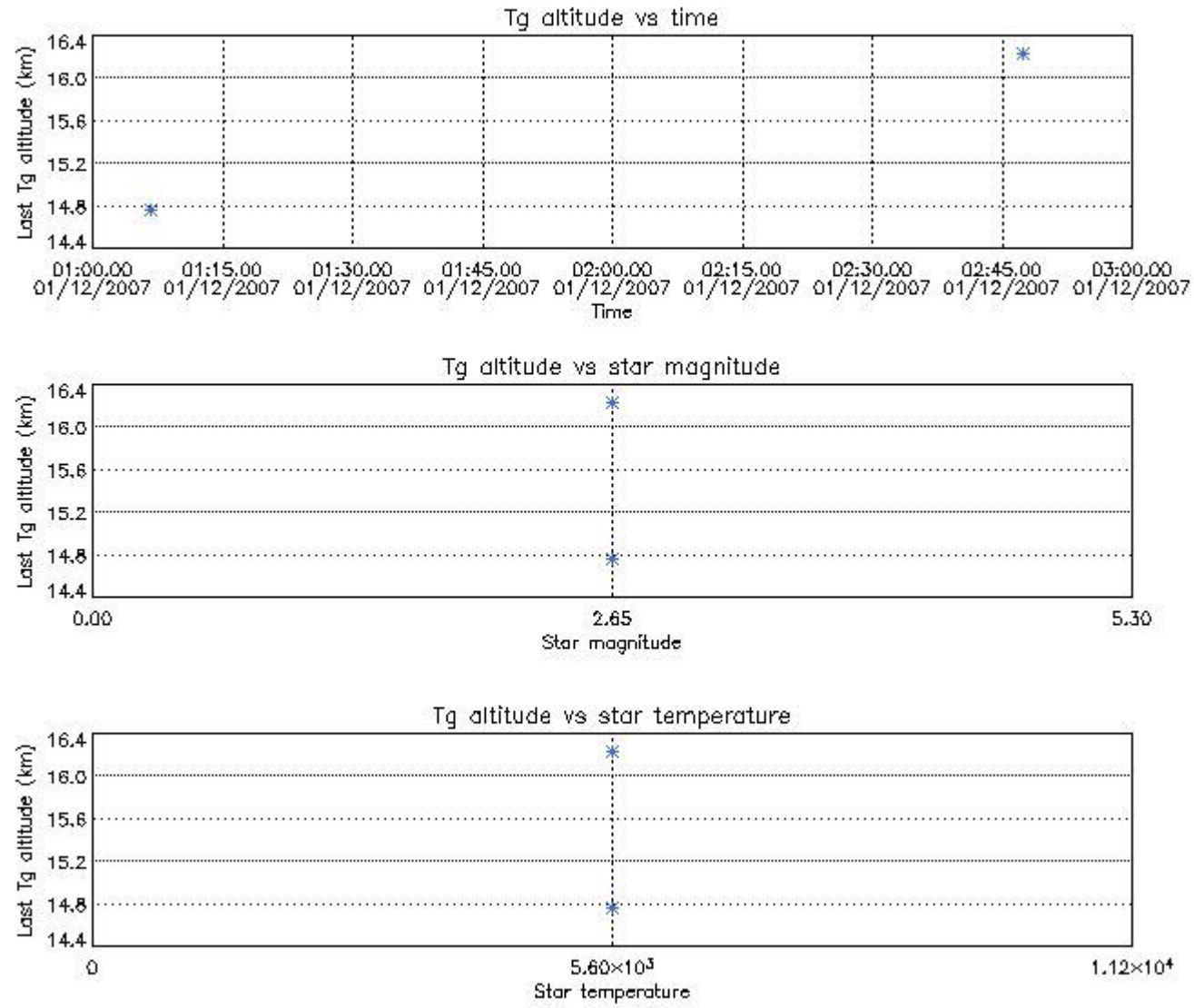
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

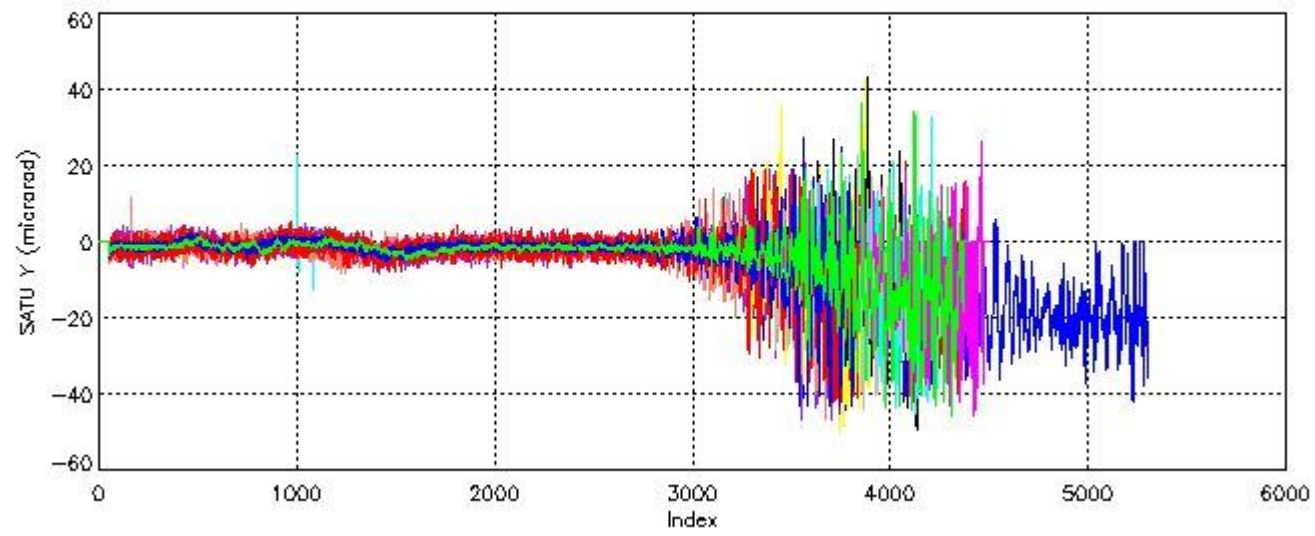
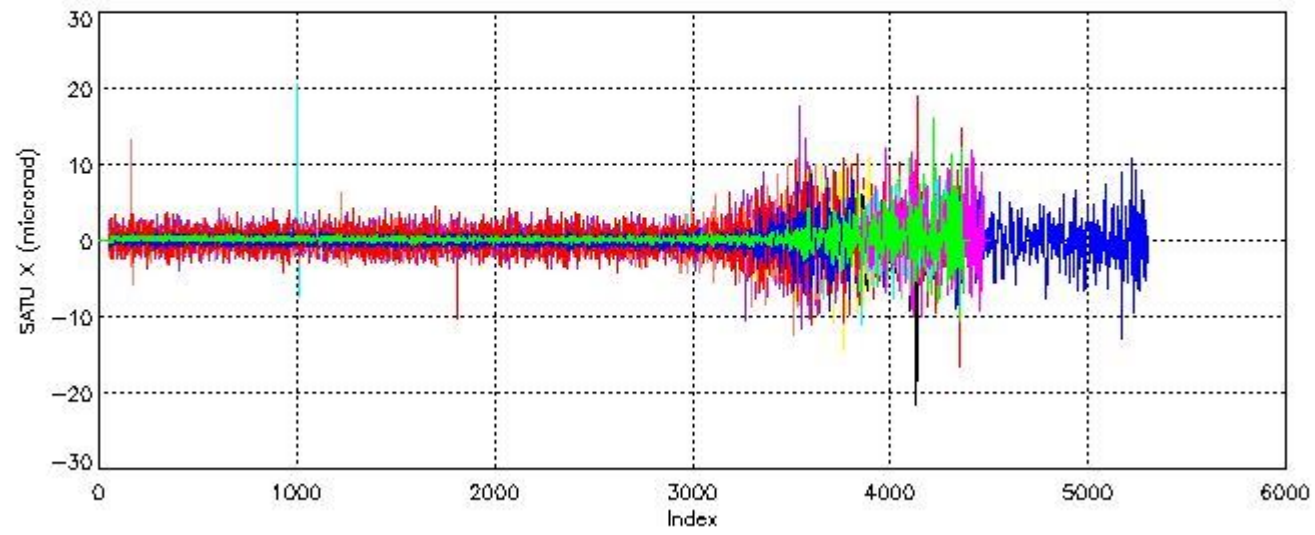


7. Star Acquisition and Tracking Unit (SATU)

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:	0.095740	-1.0480	0.074307	-1.0427
St. deviation:	0.48144	1.1335	0.89932	1.5942
Maximum:	13.100	11.500	5.9000	6.0000
Minimum:	-5.9000	-7.0000	-6.6000	-10.300

Number of data:	11800.	11800.	21700.	21700.
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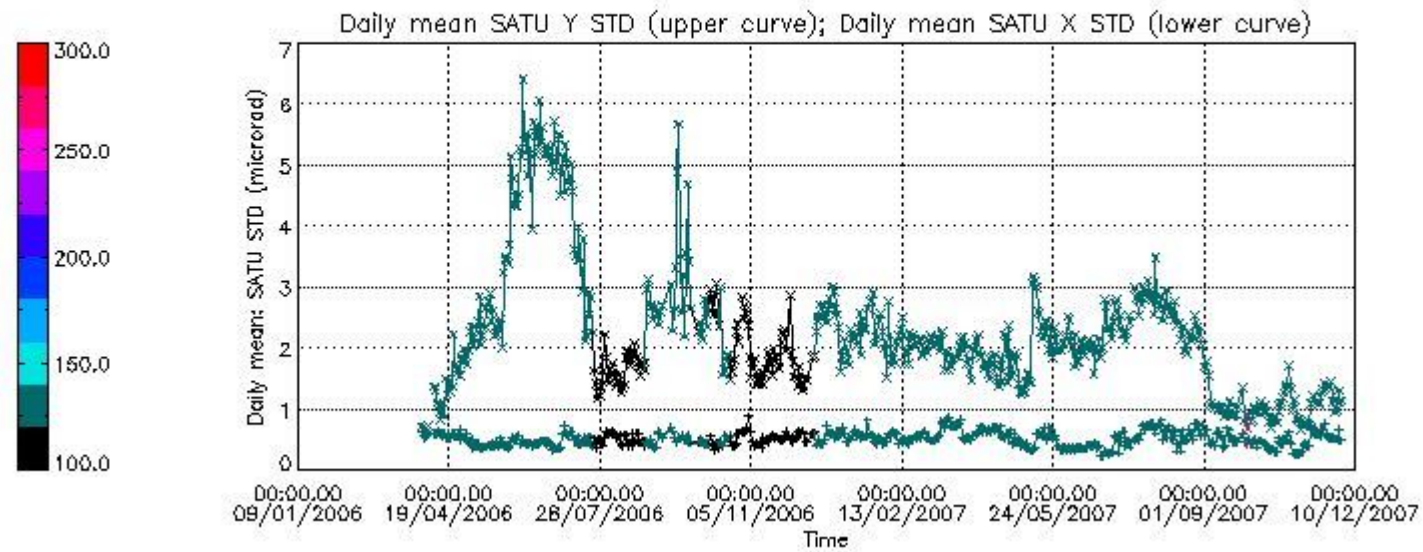
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

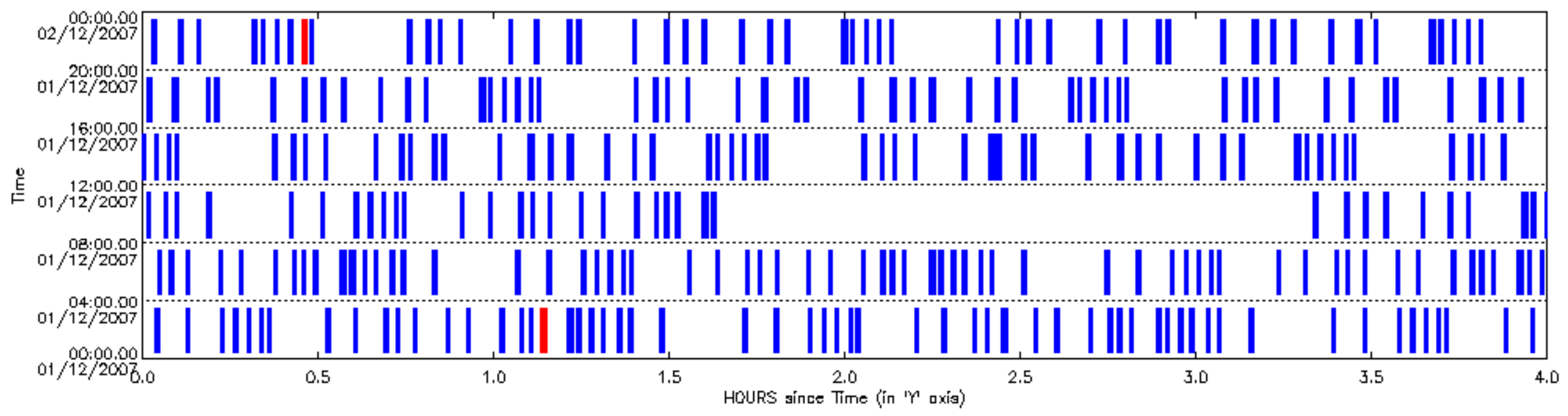
Lower curve: STD of SATU X axis

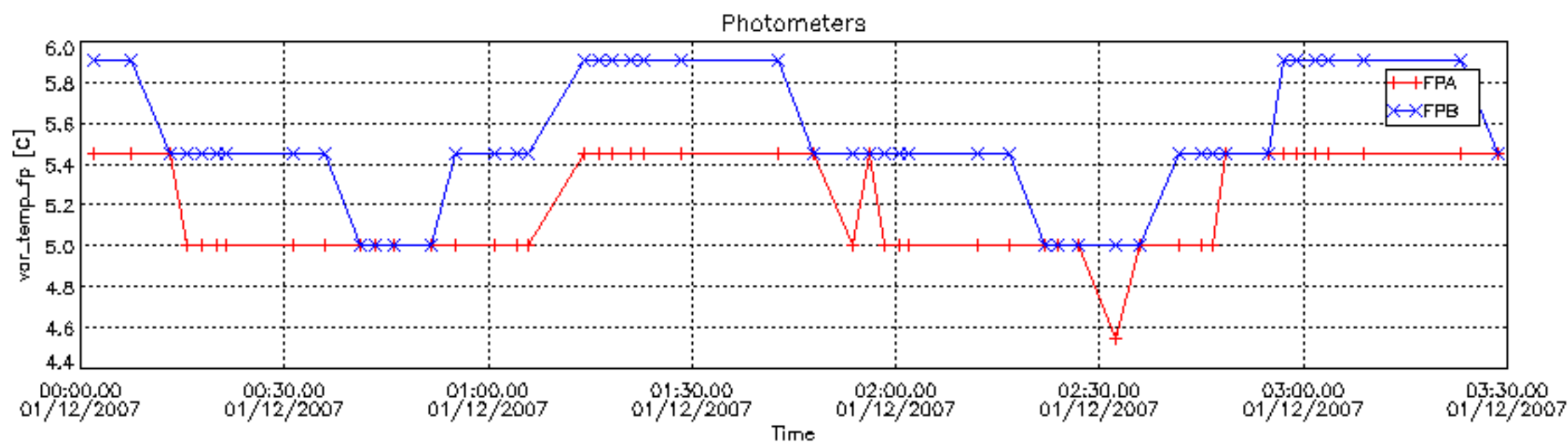
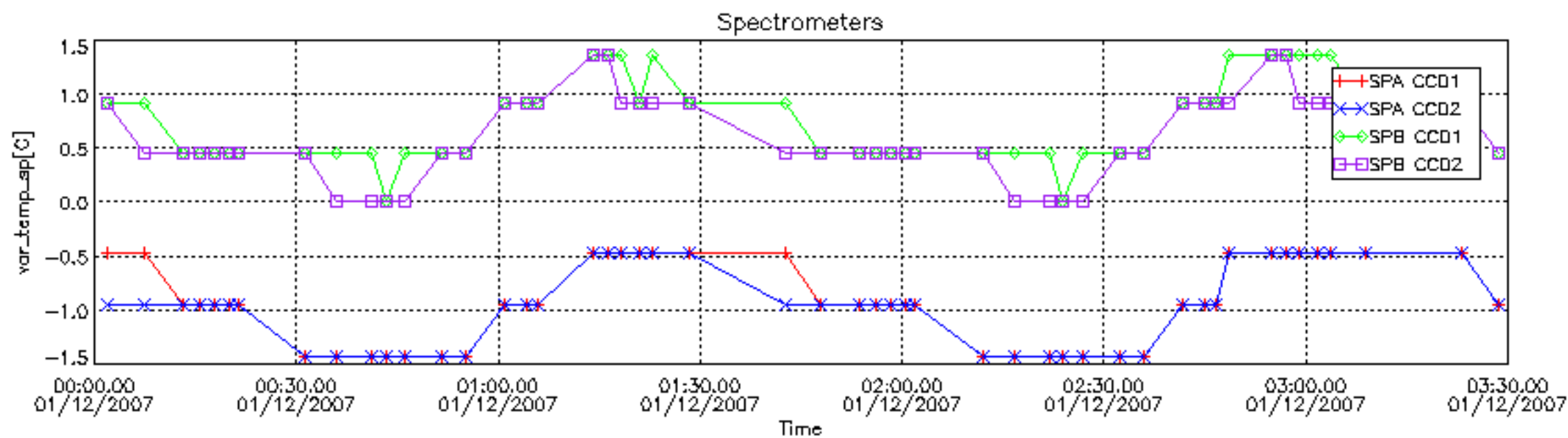


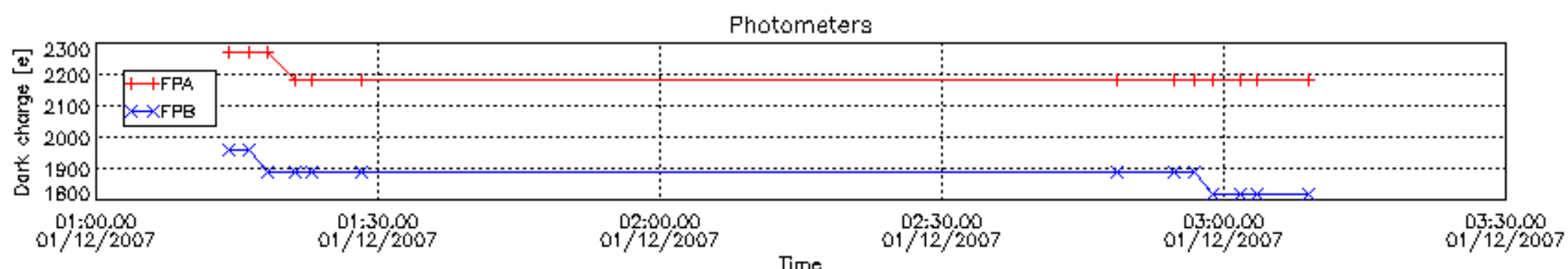
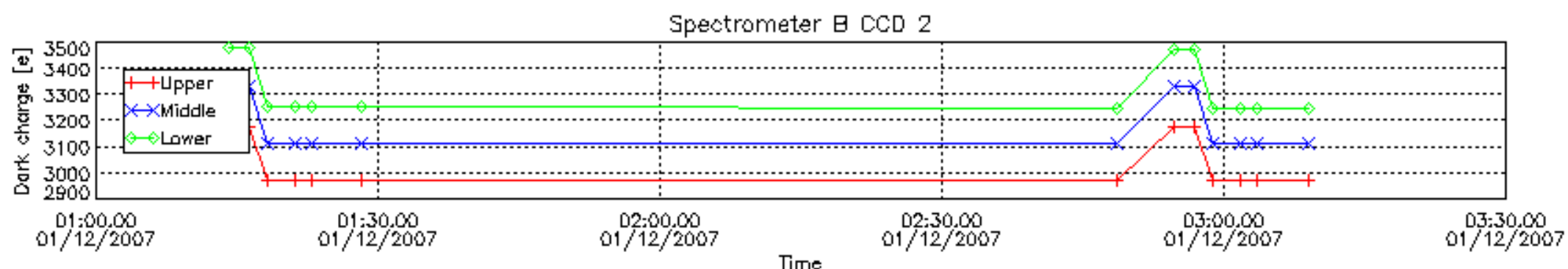
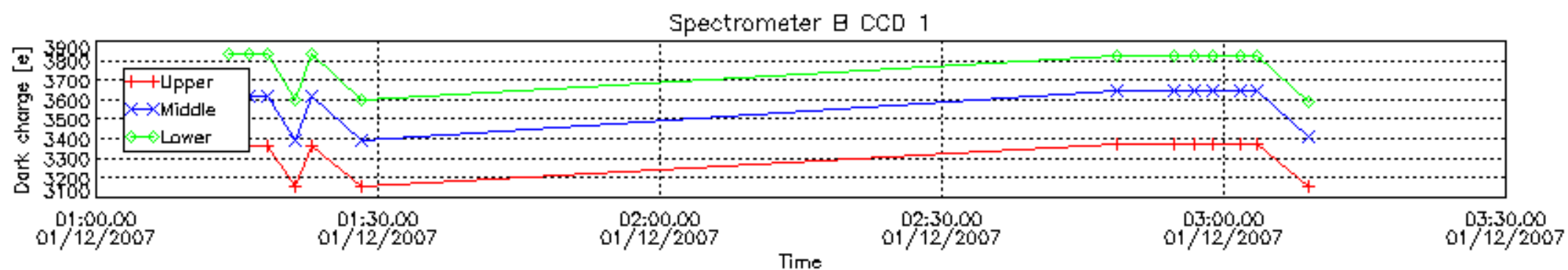
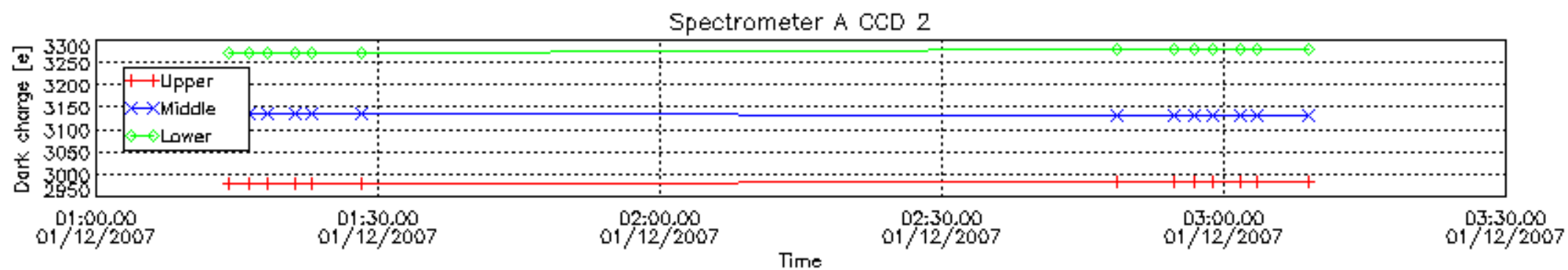
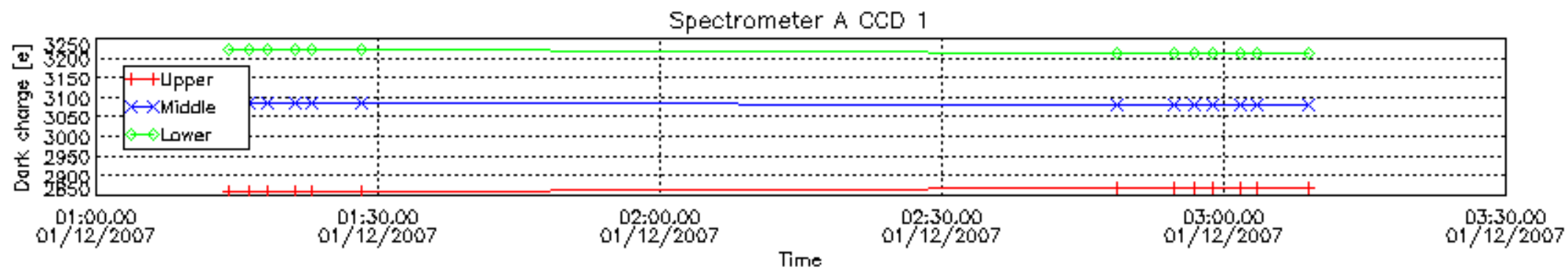
8. Auxiliary Data Files used for the production reported in section 2.4

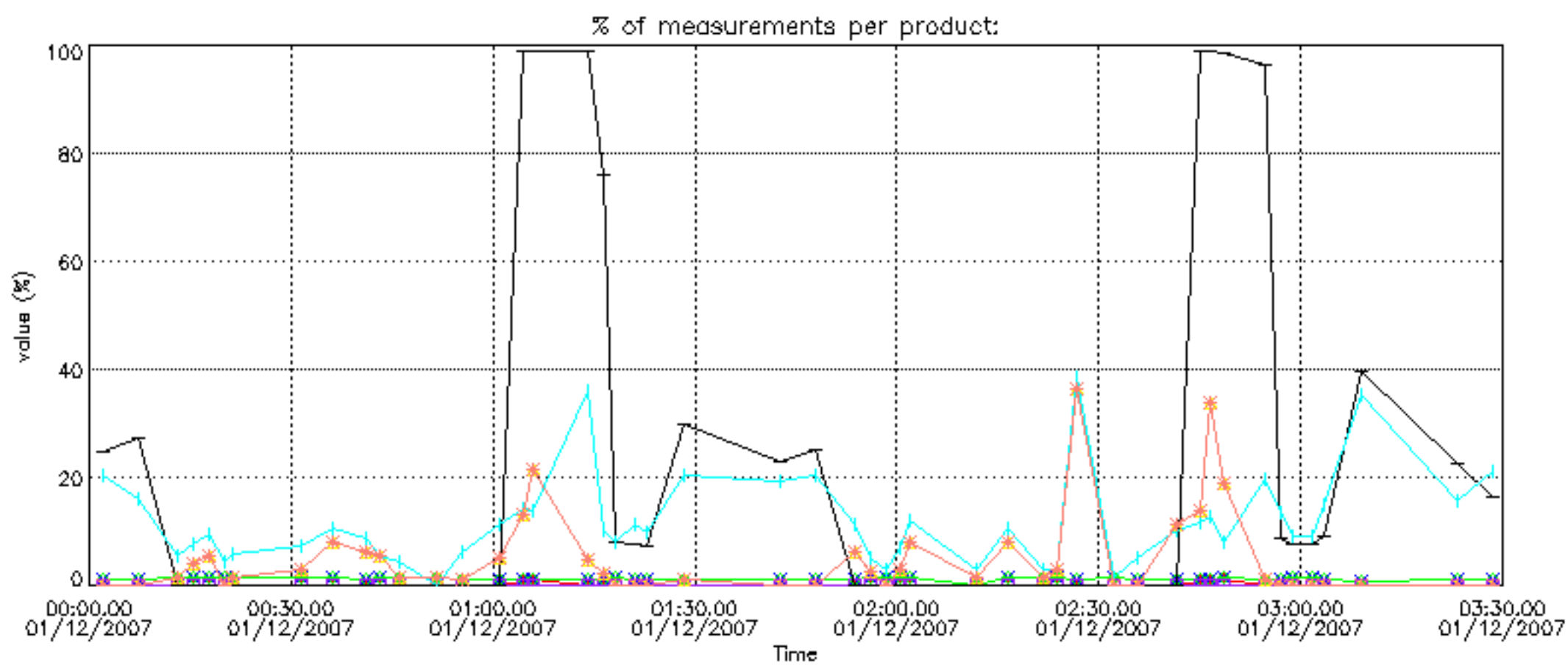
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-DEC-2007 00:01:58
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071130_110642_20071128_000000_20100101_000000	1	01-DEC-2007 00:01:58
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-DEC-2007 00:01:58
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-DEC-2007 00:01:58
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-DEC-2007 00:01:58
ECMWF_FILE	AUX_ECF_AXNECM20071130_063112_20071130_210000_20071201_090000	1	01-DEC-2007 00:01:58
OPTIONAL_ECMWF_FILE	MISSING	1	01-DEC-2007 00:01:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071130_213407_000060572063_00458_30071_4666.N1	1	01-DEC-2007 00:01:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071130_232022_000057382063_00459_30072_4667.N1	15	01-DEC-2007 01:01:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071201_005601_000044632063_00460_30073_4668.N1	32	01-DEC-2007 02:16:37

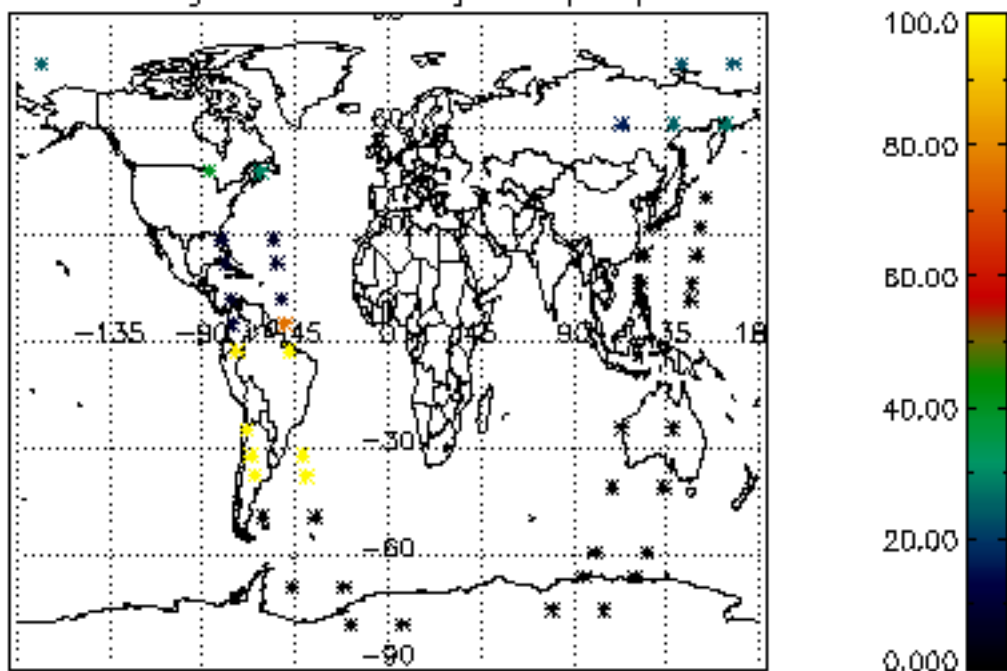




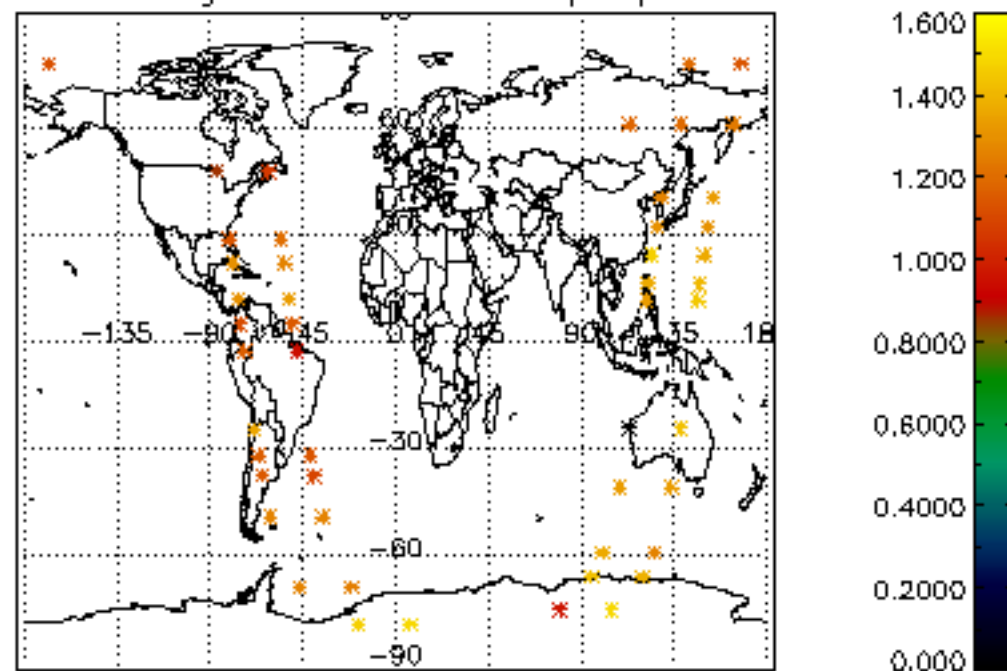




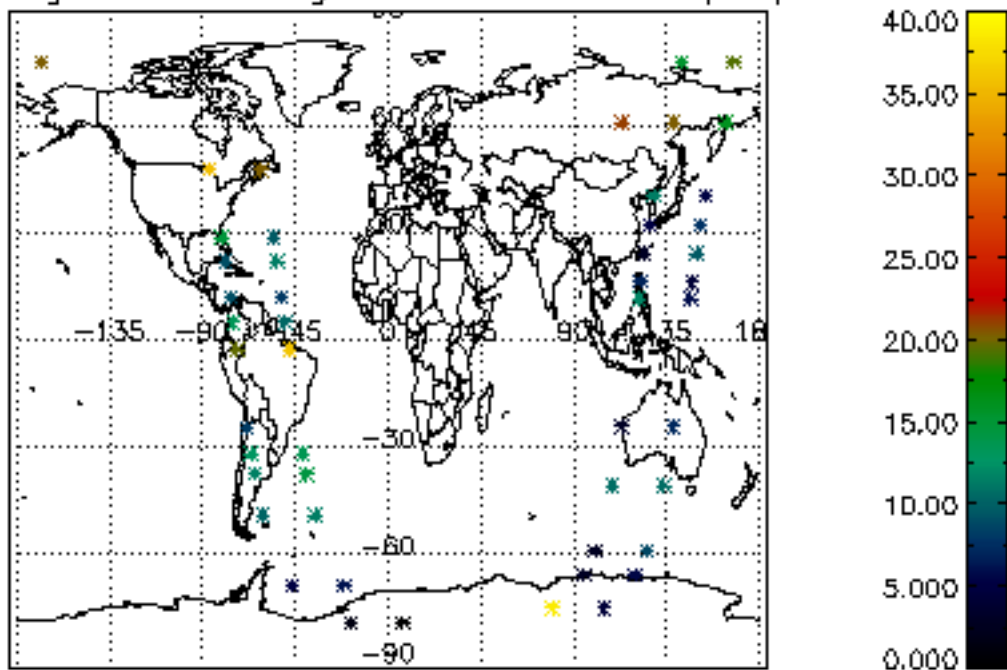
Percentage of cosmic ray hits per profile



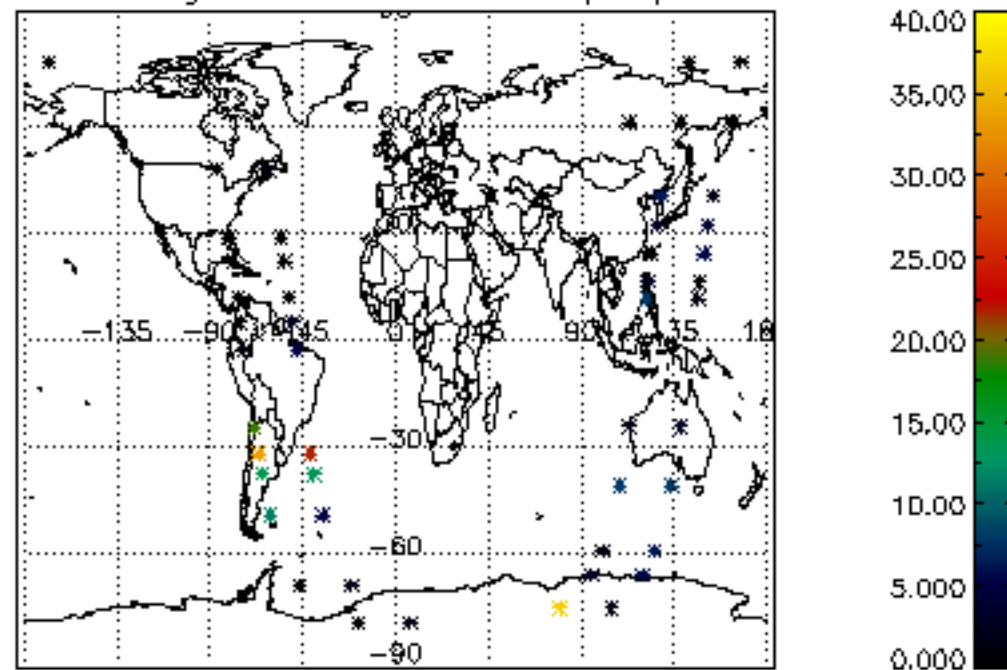
Percentage of datation errors per profile



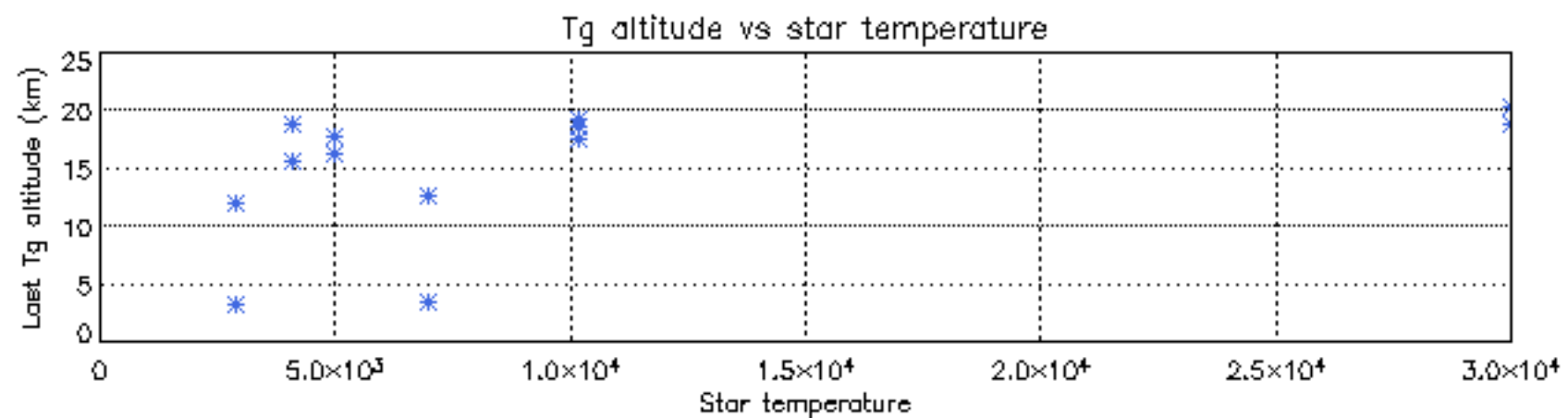
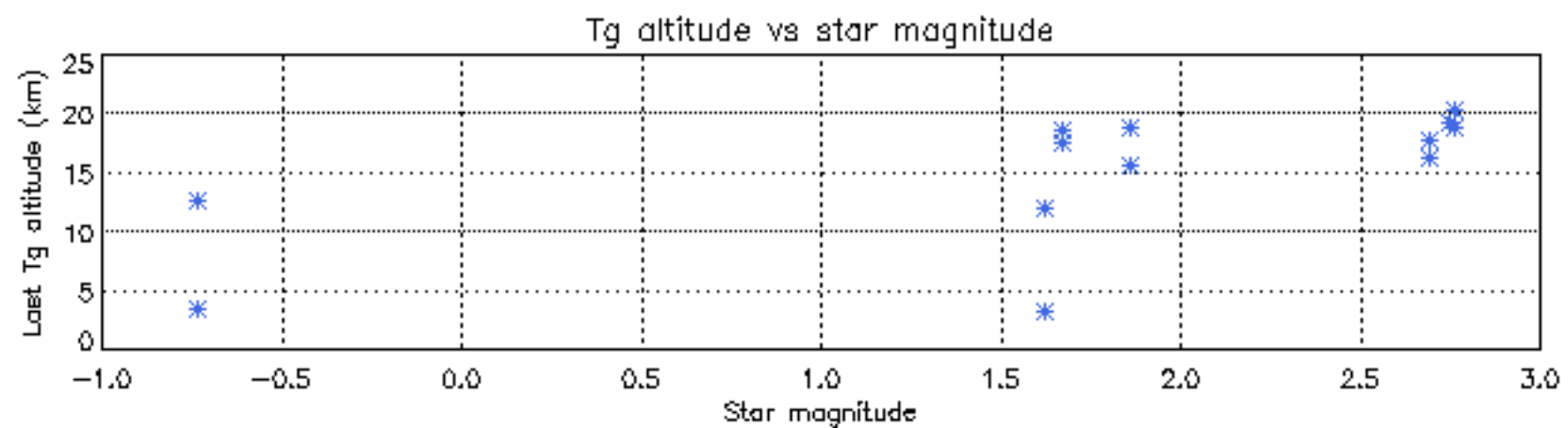
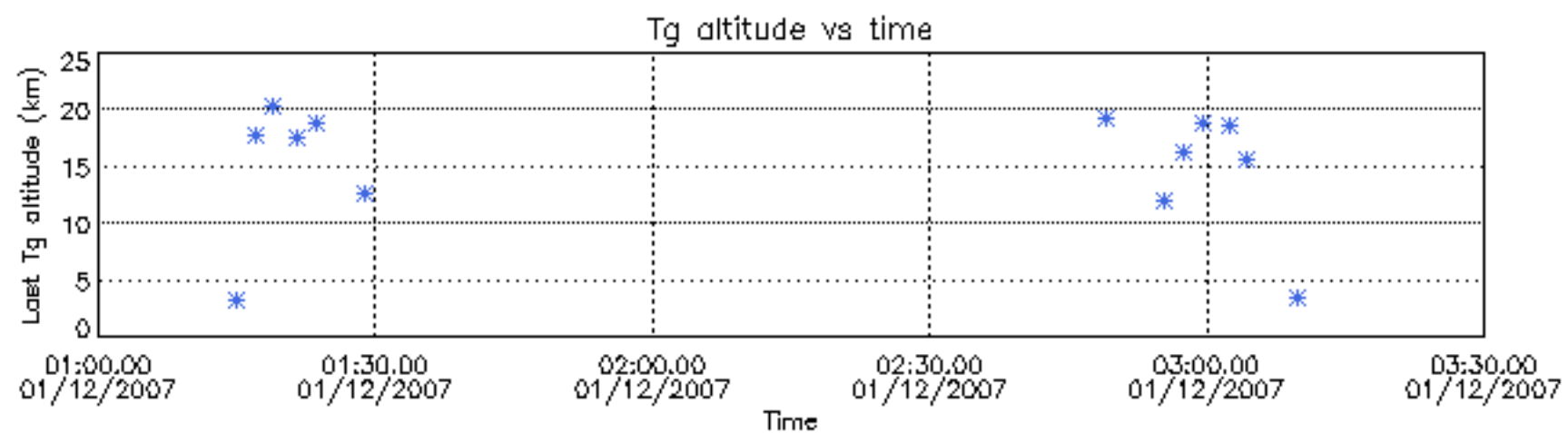
Percentage of star falling outside central band per profile



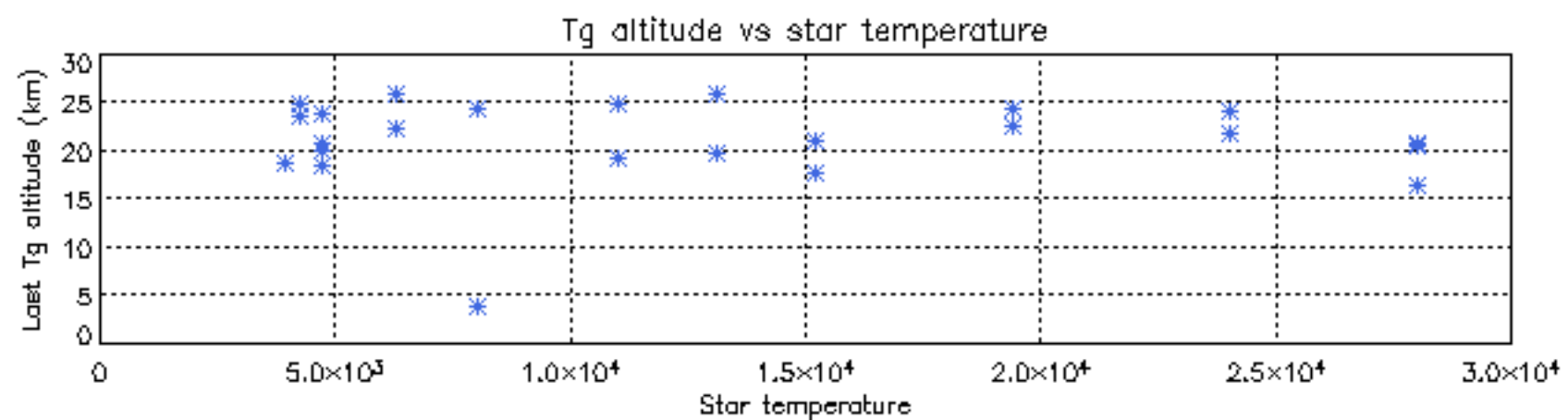
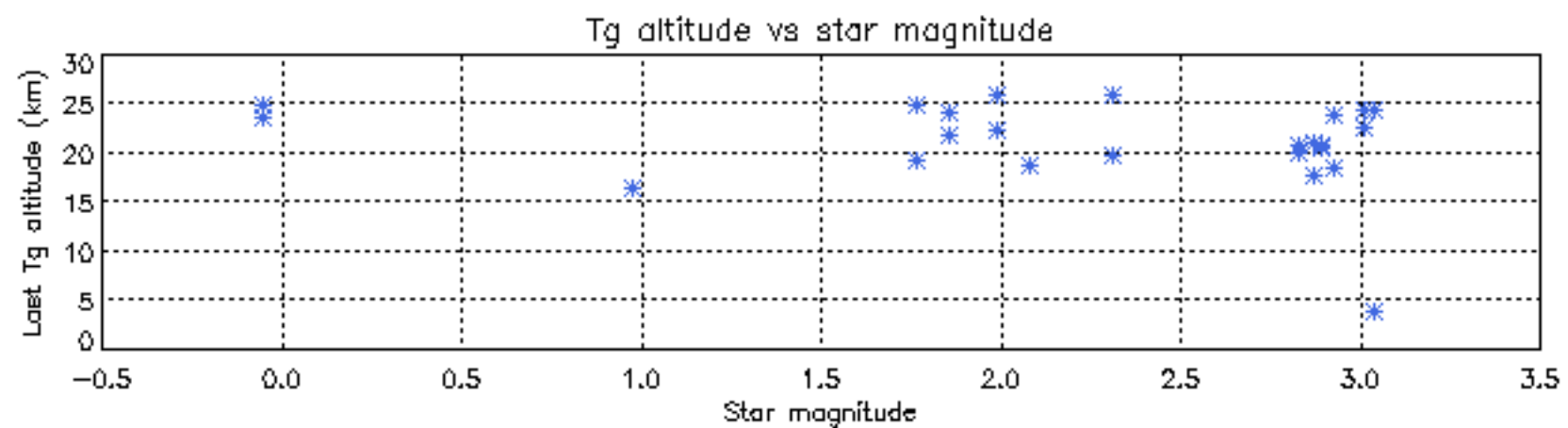
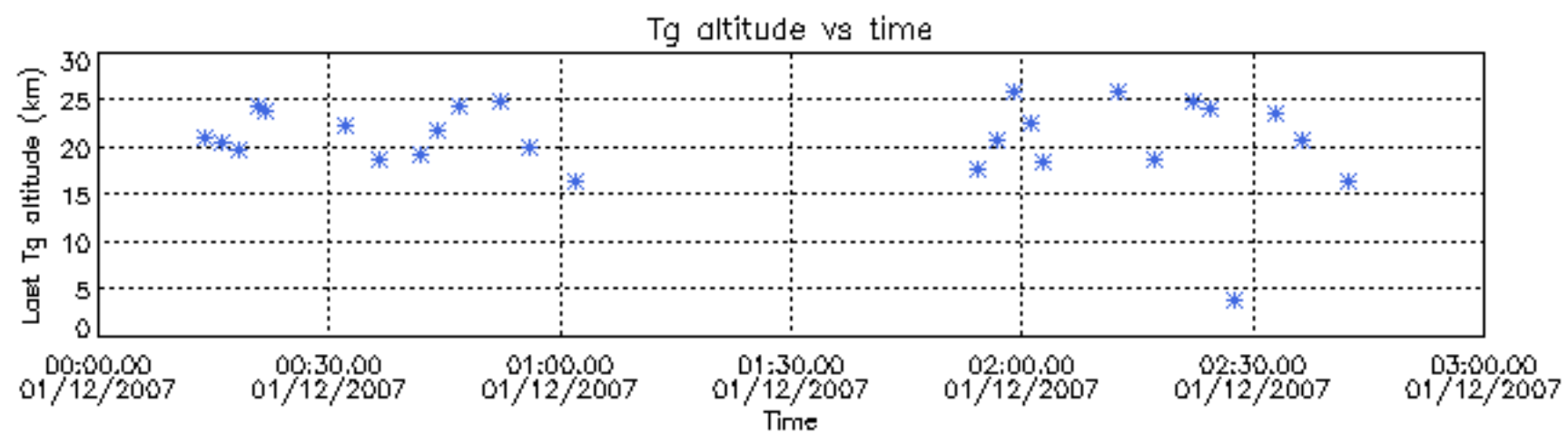
Percentage of saturation errors per profile



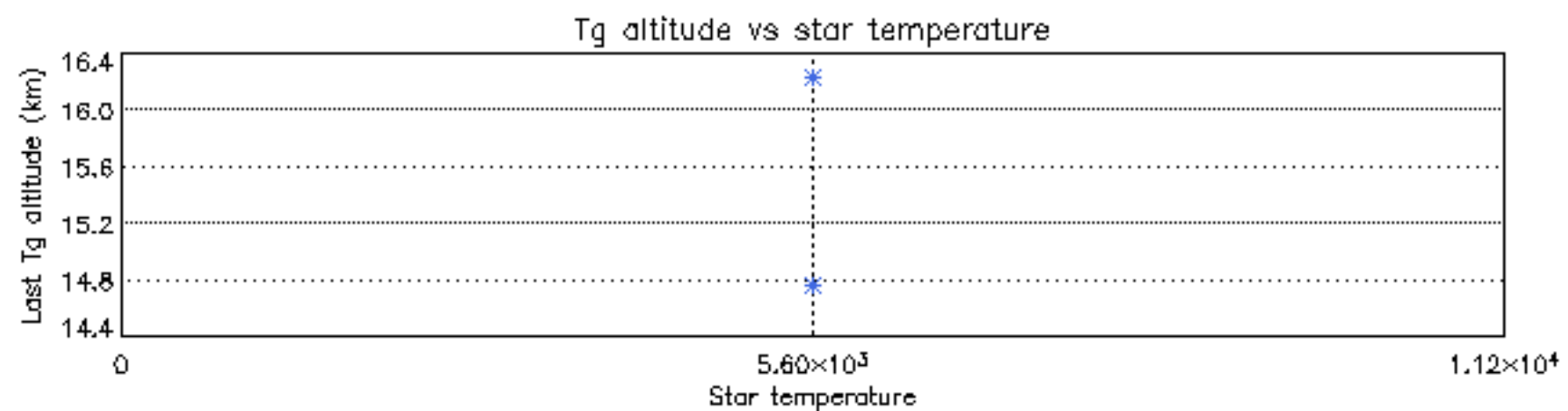
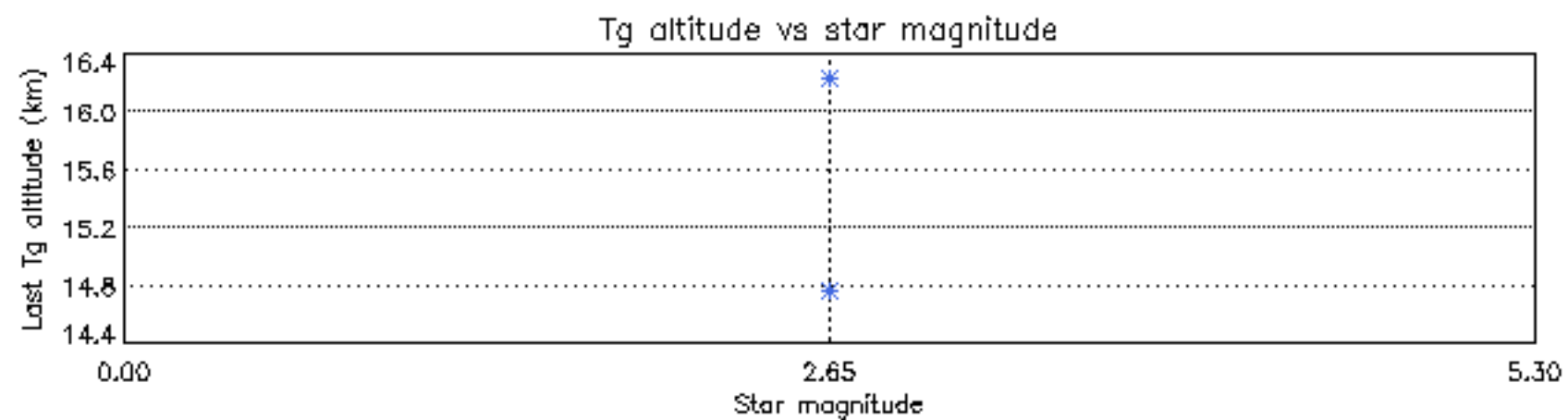
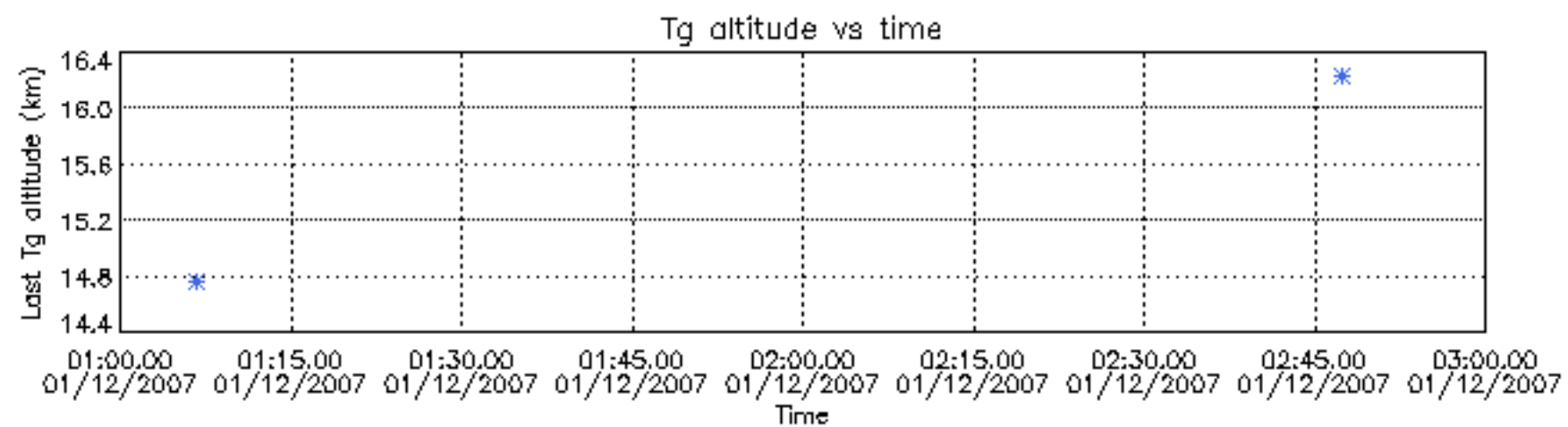
Tangent altitude at which the star is lost

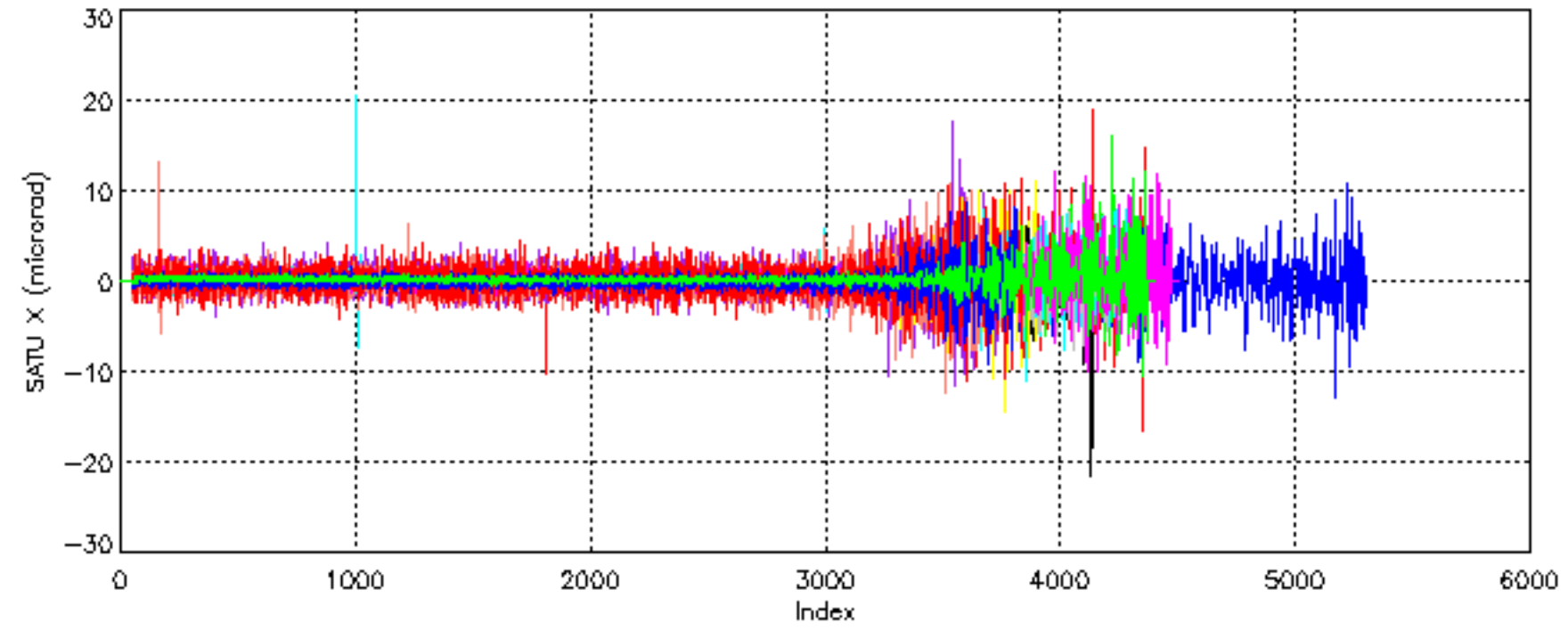


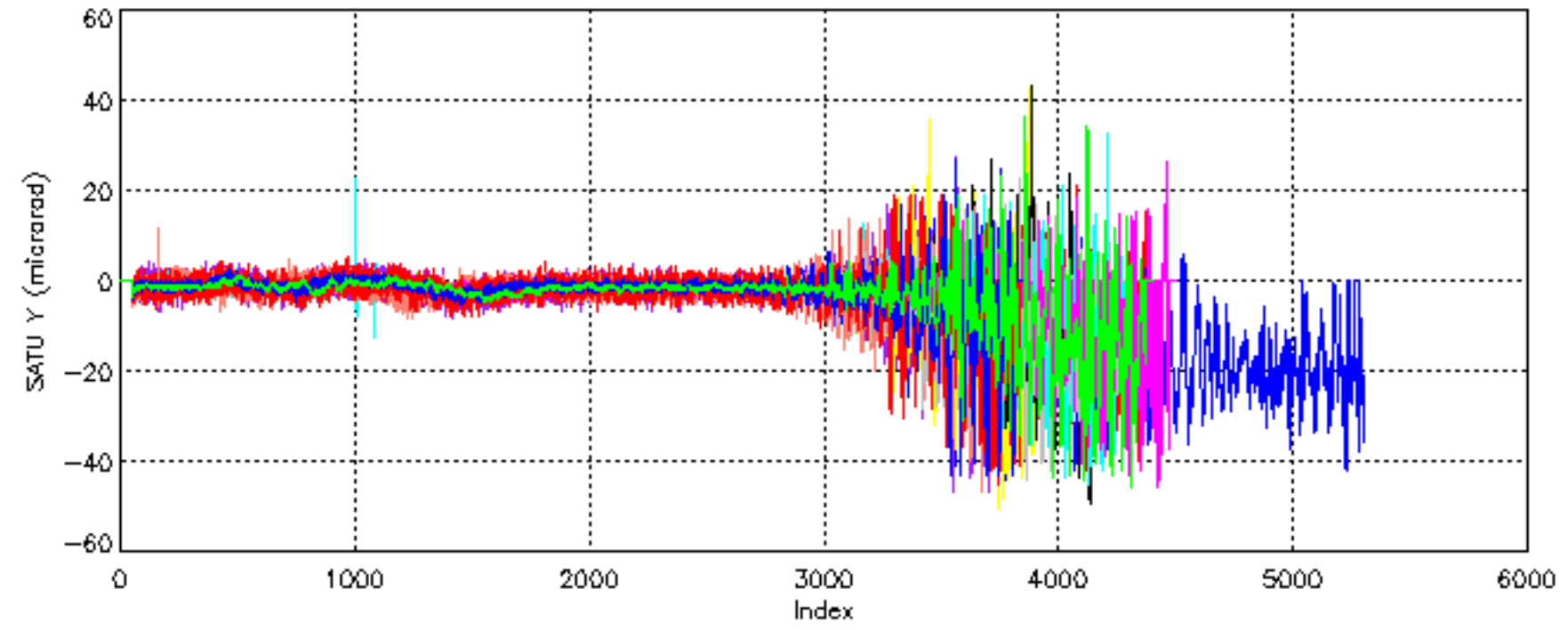
Tangent altitude at which the star is lost

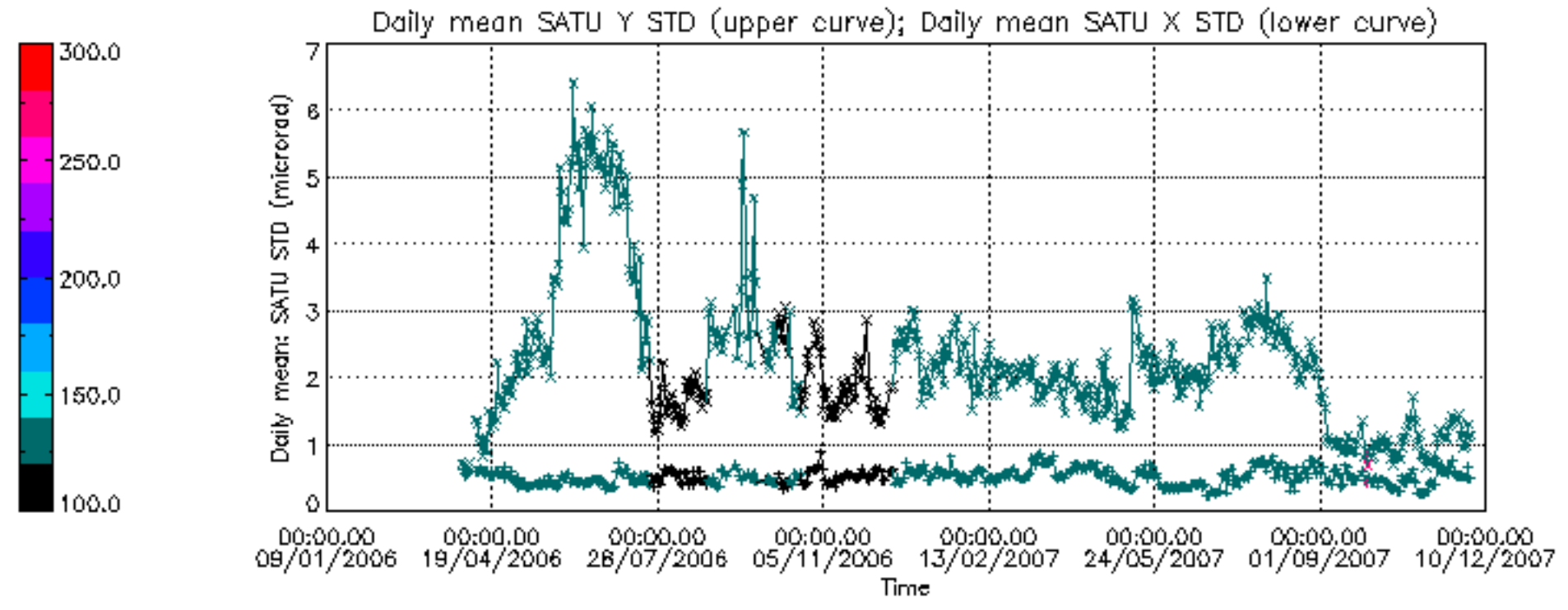


Tangent altitude at which the star is lost









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 3; -537.4; 01-DEC-2007 01:05:58; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;30073
 4; -145.2; 01-DEC-2007 01:12:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30073
 5; -46.6; 01-DEC-2007 01:14:09; Dark ; 53.0; 26; Gam Cru ; 1.62; 2900;occ; 106; 0;30073
 6; 83.1; 01-DEC-2007 01:16:18; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30074
 7; 202.5; 01-DEC-2007 01:18:18; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30074
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 11; 1658.7; 01-DEC-2007 01:42:34; Dark ; 44.0; 165; 34Gam Eri ; 2.95; 3200;occ; 88; 0;30074
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 13; 2330.0; 01-DEC-2007 01:53:45; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;30074
 14; 2472.4; 01-DEC-2007 01:56:08; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30074
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 16; 2739.4; 01-DEC-2007 02:00:35; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;30074
 17; 2818.6; 01-DEC-2007 02:01:54; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;30074
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 13; 83.9; 01-DEC-2007 02:56:55; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;30075
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 3; -1897.3; 01-DEC-2007 04:04:30; Bright; 53.0; 39; 85Eta UMa ; 1.85; 24000;occ; 106; 0;30075
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 6; -1177.6; 01-DEC-2007 04:16:30; Bright; 38.5; 138; 47Eps Vir ; 2.83; 4700;occ; 77; 0;30075
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 20; 2329.7; 01-DEC-2007 05:14:57; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;30076
 21; 2472.0; 01-DEC-2007 05:17:19; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;30076


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24; 2818.5; 01-DEC-2007 07:03:42; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;30077
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 3; -1897.1; 01-DEC-2007 07:25:42; Bright; 35.0; 39; 85Eta UMa ; 1.85; 24000;occ; 70; 0;30077
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4; 2322.7; 17-DEC-2007 10:13:46; Bright; 33.0; 146; 25Eta Tau ; 2.87; 15200;occ; 66; 0;30308
5; 2451.4; 17-DEC-2007 10:15:55; Bright; 35.5; 150; 44Zet Per ; 2.89; 28000;occ; 71; 0;30308
6; 2588.4; 17-DEC-2007 10:18:12; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;30308
7; 2720.5; 17-DEC-2007 10:20:24; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;30308
8; 2827.7; 17-DEC-2007 10:22:11; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;30308
9; 3422.2; 17-DEC-2007 10:32:06; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30308
10; 3704.3; 17-DEC-2007 10:36:48; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30308
11; 4339.2; 17-DEC-2007 10:47:23; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;30308
12; 4533.2; 17-DEC-2007 10:50:37; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;30308
13; 4697.6; 17-DEC-2007 10:53:21; Bright; 40.5; 3; 16Alp Boo ; -0.05; 4250;occ; 81; 0;30308
14; 5547.0; 17-DEC-2007 11:07:31; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;30308
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23; 6625.1; 17-DEC-2007 11:25:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30308
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4; 2322.8; 17-DEC-2007 11:54:22; Bright; 35.0; 146; 25Eta Tau ; 2.87; 15200;occ; 70; 0;30309
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8; 2827.7; 17-DEC-2007 12:02:47; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;30309
9; 3704.4; 17-DEC-2007 12:17:24; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;30309
10; 4339.4; 17-DEC-2007 12:27:59; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;30309
11; 4533.4; 17-DEC-2007 12:31:13; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;30309
12; 4697.9; 17-DEC-2007 12:33:57; Bright; 37.5; 3; 16Alp Boo ; -0.05; 4250;occ; 75; 0;30309
13; 5547.8; 17-DEC-2007 12:48:07; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;30309
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17; 5986.1; 17-DEC-2007 12:55:26; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;30309
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5; 2451.6; 17-DEC-2007 13:37:07; Bright; 34.5; 150; 44Zet Per ; 2.89; 28000;occ; 69; 0;30310
6; 2588.5; 17-DEC-2007 13:39:24; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;30310
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9; 3704.4; 17-DEC-2007 13:58:00; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;30310
10; 4339.6; 17-DEC-2007 14:08:35; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;30310
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 5; 2451.7; 17-DEC-2007 15:17:43; Bright; 36.0; 150; 44Zet Per ; 2.89; 28000;occ; 72; 0;30311
 6; 2588.4; 17-DEC-2007 15:20:00; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;30311
 7; 2720.6; 17-DEC-2007 15:22:12; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;30311
 8; 3422.3; 17-DEC-2007 15:33:54; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30311
 9; 3704.6; 17-DEC-2007 15:38:36; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30311
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 18; 6086.4; 17-DEC-2007 16:18:18; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;30311
 19; 6355.9; 17-DEC-2007 16:22:47; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;30311
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 3; 1750.9; 17-DEC-2007 16:46:38; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;30312
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 11; 3902.3; 17-DEC-2007 17:22:30; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30312
 12; 4339.7; 17-DEC-2007 17:29:47; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;30312
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8; 2720.5; 17-DEC-2007 18:43:24; Bright; 41.0; 175; 39Del Per ; 3.01; 19400;occ; 82; 0;30313
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23; 6461.3; 17-DEC-2007 19:45:45; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30313
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25; 6629.0; 17-DEC-2007 19:48:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30313
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 14; 4871.4; 27-DEC-2007 15:43:41; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30454
 15; 5165.8; 27-DEC-2007 15:48:35; Bright; 54.0; 104; 27Bet Lib ; 2.61; 13100;occ; 108; 0;30454
 16; 5316.1; 27-DEC-2007 15:51:06; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;30454
 17; 5720.4; 27-DEC-2007 15:57:50; Dark ; 49.5; 54; 5The Cen ; 2.06; 4500;occ; 99; 0;30454
 18; 5815.0; 27-DEC-2007 15:59:25; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30454
 19; 5892.2; 27-DEC-2007 16:00:42; Dark ; 38.0; 95; Zet Cen ; 2.55; 26000;occ; 76; 0;30454
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 22; 6415.3; 27-DEC-2007 16:09:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30454
 23; 6531.7; 27-DEC-2007 16:11:21; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30454
 24; 6628.4; 27-DEC-2007 16:12:58; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30454
 25; 6730.0; 27-DEC-2007 16:14:40; Dark ; 40.5; 41; Eps Car ; 1.86; 4100;occ; 81; 0;30454
 26; 6995.5; 27-DEC-2007 16:19:05; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;30454

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 11; 3697.1; 27-DEC-2007 17:04:43; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30455
 12; 3917.7; 27-DEC-2007 17:08:23; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30455
 13; 4410.5; 27-DEC-2007 17:16:36; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30455
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 19; 5815.4; 27-DEC-2007 17:40:01; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30455
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 21; 6015.5; 27-DEC-2007 17:43:21; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;30455
 22; 6231.5; 27-DEC-2007 17:46:57; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;30455
 23; 6415.6; 27-DEC-2007 17:50:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30455
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 25; 6629.0; 27-DEC-2007 17:53:35; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30455
 26; 6730.4; 27-DEC-2007 17:55:16; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30455
 27; 6995.8; 27-DEC-2007 17:59:41; Dark ; 52.5; 2; Alp Car ;-0.74; 7000;occ; 105; 0;30455

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 11; 2782.9; 27-DEC-2007 18:30:05; Bright; 36.5; 35; 33Alp Per ; 1.79; 6250;occ; 73; 0;30456
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 13; 3697.0; 27-DEC-2007 18:45:19; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30456
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 17; 4872.0; 27-DEC-2007 19:04:54; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;30456
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 23; 6015.8; 27-DEC-2007 19:23:57; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30456
 24; 6231.9; 27-DEC-2007 19:27:34; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30456
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 27; 6629.5; 27-DEC-2007 19:34:11; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30456
 28; 6730.8; 27-DEC-2007 19:35:52; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;30456
 29; 6996.0; 27-DEC-2007 19:40:18; Dark ; 5.0; 2; Alp Car ; -0.74; 7000;occ; 10; 0;30456

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 11; 1307.0; 27-DEC-2007 23:07:16; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30459
 12; 1588.4; 27-DEC-2007 23:11:58; Dark ; 40.0; 101; 11Alp Lep ; 2.58; 7000;occ; 80; 0;30459
 13; 1762.0; 27-DEC-2007 23:14:51; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;30459
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 15; 2012.9; 27-DEC-2007 23:19:02; Dark ; 40.5; 27; 24Gam Ori ; 1.64; 26000;occ; 81; 0;30459
 16; 2193.0; 27-DEC-2007 23:22:02; Dark ; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;30459
 17; 2404.8; 27-DEC-2007 23:25:34; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;30459
 18; 2600.3; 27-DEC-2007 23:28:50; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;30459
 19; 2700.5; 27-DEC-2007 23:30:30; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30459
 20; 2783.5; 27-DEC-2007 23:31:53; Bright; 35.5; 35; 33Alp Per ; 1.79; 6250;occ; 71; 0;30459
 21; 3422.9; 27-DEC-2007 23:42:32; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30459
 22; 3696.7; 27-DEC-2007 23:47:06; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30459
 23; 3917.8; 27-DEC-2007 23:50:47; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30459
 24; 4411.1; 27-DEC-2007 23:59:01; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30459
 25; 4534.3; 28-DEC-2007 00:01:04; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30459
 26; 4872.5; 28-DEC-2007 00:06:42; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;30459
 27; 5167.6; 28-DEC-2007 00:11:37; Bright; 53.5; 104; 27Bet Lib ; 2.61; 13100;occ; 107; 0;30459

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 6; 380.8; 28-DEC-2007 00:32:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30460
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 9; 696.1; 28-DEC-2007 00:37:41; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;30460
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 11; 1307.3; 28-DEC-2007 00:47:53; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30460
 12; 1588.6; 28-DEC-2007 00:52:34; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;30460
 13; 1762.1; 28-DEC-2007 00:55:27; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;30460
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 15; 2012.8; 28-DEC-2007 00:59:38; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;30460
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 19; 2700.3; 28-DEC-2007 01:11:06; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30460
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 22; 3696.6; 28-DEC-2007 01:27:42; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;30460
 23; 3918.0; 28-DEC-2007 01:31:23; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30460
 24; 4411.3; 28-DEC-2007 01:39:37; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30460
 25; 4534.5; 28-DEC-2007 01:41:40; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30460
 26; 4873.0; 28-DEC-2007 01:47:18; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30460

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7; 197.9; 28-DEC-2007 02:09:59; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30461
8; 381.1; 28-DEC-2007 02:13:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30461
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19; 2600.4; 28-DEC-2007 02:50:02; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30461
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13; 381.7; 28-DEC-2007 05:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30463
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