

GOMOS Daily Report 30-JAN-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	01FEB2007 05:32:58
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (30JAN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (31JAN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

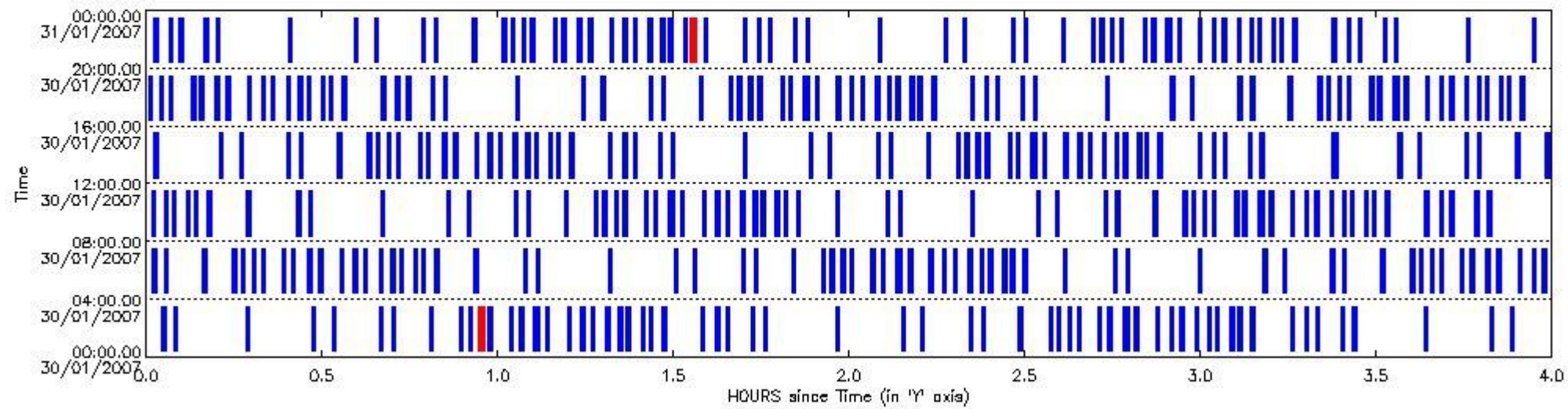
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

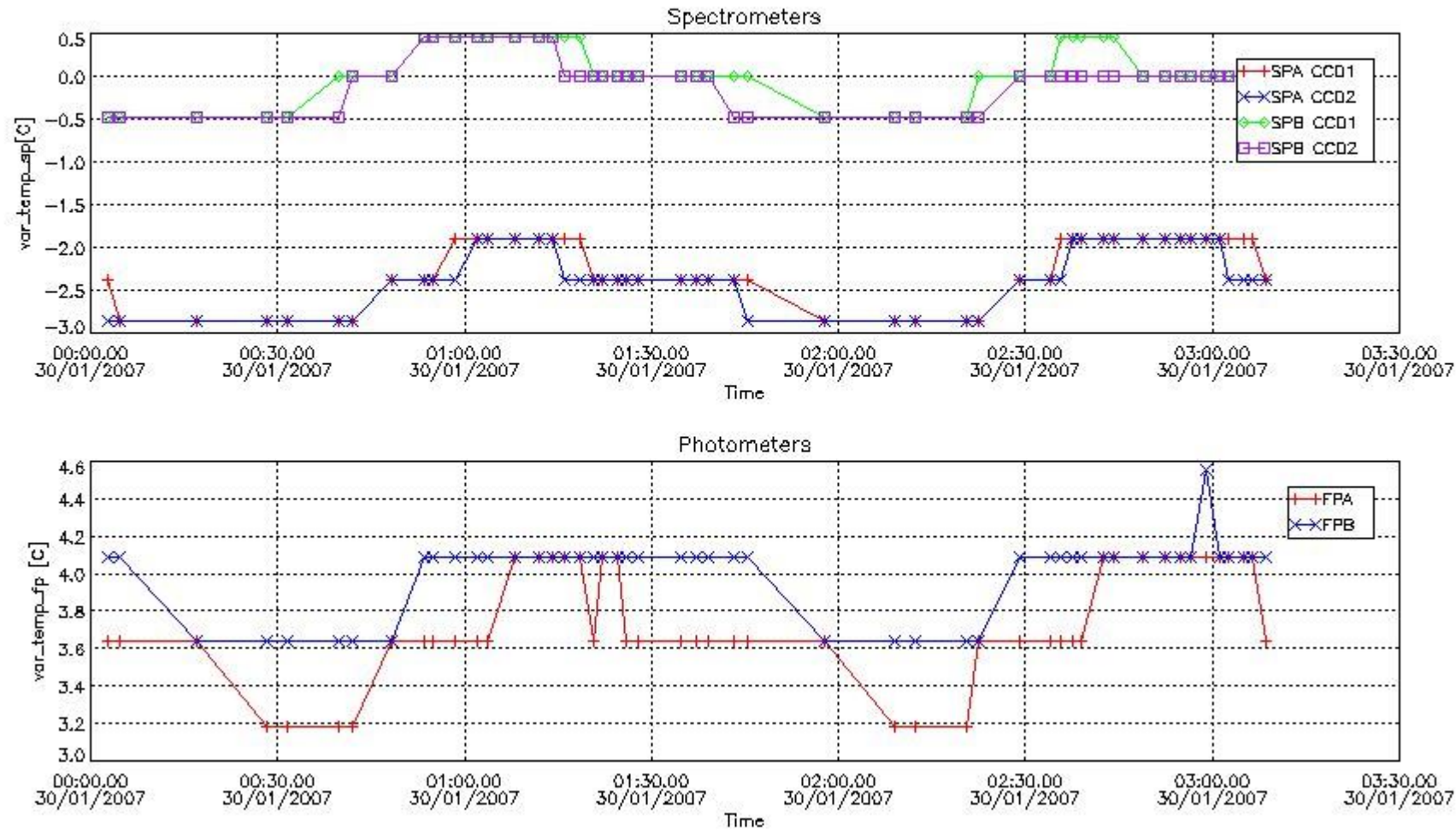
UTC start time	Star name	Star ID	Orbit
30-JAN-2007 00:56:48	AlpAra	147	25707
30-JAN-2007 21:32:58	24Omi2CMa	179	25720

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_1PNPDE20070130_000241_000000362055_00102_25707_9057.N1	30-JAN-2007 00:02:41	Bright	35.500	107	37The Aur	2.6490	11000.	71	25707	No
2	GOM_TRA_1PNPDE20070130_000447_000000342055_00102_25707_9058.N1	30-JAN-2007 00:04:47	Bright	34.000	42	34Bet Aur	1.9000	10200.	68	25707	No
3	GOM_TRA_1PNPDE20070130_001708_000000332055_00102_25707_9059.N1	30-JAN-2007 00:17:08	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	25707	No
4	GOM_TRA_1PNPDE20070130_002819_000000352055_00102_25707_9060.N1	30-JAN-2007 00:28:19	Bright	34.500	69	33Gam Dra	2.2310	3800.0	69	25707	No
5	GOM_TRA_1PNPDE20070130_003141_000000352055_00102_25707_9061.N1	30-JAN-2007 00:31:41	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	25707	No
6	GOM_TRA_1PNPDE20070130_003949_000000372055_00102_25707_9062.N1	30-JAN-2007 00:39:49	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	25707	No
7	GOM_TRA_1PNPDE20070130_004156_000000352055_00102_25707_9063.N1	30-JAN-2007 00:41:56	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	25707	No
8	GOM_TRA_1PNPDE20070130_004819_000000432055_00102_25707_9206.N1	30-JAN-2007 00:48:19	Twilight	43.000	86	35Eta Oph	2.4300	10200.	86	25707	No
9	GOM_TRA_1PNPDE20070130_005327_000000412055_00102_25707_9207.N1	30-JAN-2007 00:53:27	Dark	41.000	25	35Lam Sco	1.6200	28000.	82	25707	No

10	GOM_TRA_1PNPDE20070130_005457_000000412055_00102_25707_9208.N1	30-JAN-2007 00:54:57	Dark	40.500	40	The Sco	1.8590	7100.0	81	25707	No
11	GOM_TRA_1PNPDE20070130_005825_000000382055_00102_25707_9209.N1	30-JAN-2007 00:58:25	Dark	37.500	141	Bet Ara	2.8400	4600.0	75	25707	No
12	GOM_TRA_1PNPDE20070130_010156_000000382055_00103_25708_9210.N1	30-JAN-2007 01:01:56	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	25708	No
13	GOM_TRA_1PNPDE20070130_010334_000000492055_00103_25708_9211.N1	30-JAN-2007 01:03:34	Dark	49.000	4	Alp1Cen	-0.010000	5800.0	98	25708	No
14	GOM_TRA_1PNPDE20070130_010810_000000402055_00103_25708_9212.N1	30-JAN-2007 01:08:10	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	25708	No
15	GOM_TRA_1PNPDE20070130_011151_000000392055_00103_25708_9213.N1	30-JAN-2007 01:11:51	Dark	38.500	29	Bet Car	1.6720	10200.	77	25708	No
16	GOM_TRA_1PNPDE20070130_011410_000000382055_00103_25708_9214.N1	30-JAN-2007 01:14:10	Dark	37.500	71	lot Car	2.2460	7700.0	75	25708	No
17	GOM_TRA_1PNPDE20070130_011556_000000392055_00103_25708_9215.N1	30-JAN-2007 01:15:56	Dark	39.000	46	Del Vel	1.9540	10600.	78	25708	No
18	GOM_TRA_1PNPDE20070130_011828_000000422055_00103_25708_9216.N1	30-JAN-2007 01:18:28	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	25708	No
19	GOM_TRA_1PNPDE20070130_012034_000000402055_00103_25708_9217.N1	30-JAN-2007 01:20:34	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	25708	No
20	GOM_TRA_1PNPDE20070130_012158_000000412055_00103_25708_9218.N1	30-JAN-2007 01:21:58	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	25708	No
21	GOM_TRA_1PNPDE20070130_012425_000000422055_00103_25708_9219.N1	30-JAN-2007 01:24:25	Straylight	42.000	23	21Eps CMa	1.5020	26000.	84	25708	No
22	GOM_TRA_1PNPDE20070130_012547_000000372055_00103_25708_9220.N1	30-JAN-2007 01:25:47	Straylight	37.000	179	24Omi2CMa	3.0320	24000.	74	25708	No
23	GOM_TRA_1PNPDE20070130_012757_000000482055_00103_25708_9221.N1	30-JAN-2007 01:27:57	Straylight	48.000	1	9Alp CMa	-1.4400	11000.	96	25708	No
24	GOM_TRA_1PNPDE20070130_013443_000000402055_00103_25708_9222.N1	30-JAN-2007 01:34:43	Tw_i_and_stray	40.000	153	3Bet CMi	2.8940	13100.	80	25708	No
25	GOM_TRA_1PNPDE20070130_013711_000000382055_00103_25708_9223.N1	30-JAN-2007 01:37:11	Bright	38.000	44	24Gam Gem	1.9280	11000.	76	25708	No
26	GOM_TRA_1PNPDE20070130_013900_000000382055_00103_25708_9224.N1	30-JAN-2007 01:39:00	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	25708	No
27	GOM_TRA_1PNPDE20070130_014317_000000352055_00103_25708_9225.N1	30-JAN-2007 01:43:17	Bright	34.500	107	37The Aur	2.6490	11000.	69	25708	No
28	GOM_TRA_1PNPDE20070130_014523_000000362055_00103_25708_9226.N1	30-JAN-2007 01:45:23	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	25708	No
29	GOM_TRA_1PNPDE20070130_015744_000000332055_00103_25708_9227.N1	30-JAN-2007 01:57:44	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	25708	No
30	GOM_TRA_1PNPDE20070130_020855_000000342055_00103_25708_9228.N1	30-JAN-2007 02:08:55	Bright	33.500	69	33Gam Dra	2.2310	3800.0	67	25708	No
31	GOM_TRA_1PNPDE20070130_021217_000000332055_00103_25708_9229.N1	30-JAN-2007 02:12:17	Bright	33.000	5	3Alp Lyr	0.033000	11000.	66	25708	No
32	GOM_TRA_1PNPDE20070130_022025_000000362055_00103_25708_9230.N1	30-JAN-2007 02:20:25	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	25708	No
33	GOM_TRA_1PNPDE20070130_022232_000000362055_00103_25708_9231.N1	30-JAN-2007 02:22:32	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	25708	No
34	GOM_TRA_1PNPDE20070130_022855_000000422055_00103_25708_9345.N1	30-JAN-2007 02:28:55	Tw_i_and_stray	41.500	86	35Eta Oph	2.4300	10200.	83	25708	No
35	GOM_TRA_1PNPDE20070130_023404_000000392055_00103_25708_9346.N1	30-JAN-2007 02:34:04	Dark	39.000	25	35Lam Sco	1.6200	28000.	78	25708	No
36	GOM_TRA_1PNPDE20070130_023533_000000392055_00103_25708_9347.N1	30-JAN-2007 02:35:33	Dark	38.500	40	The Sco	1.8590	7100.0	77	25708	No
37	GOM_TRA_1PNPDE20070130_023727_000000372055_00103_25708_9348.N1	30-JAN-2007 02:37:27	Dark	36.500	147	Alp Ara	2.8770	26000.	73	25708	No
38	GOM_TRA_1PNPDE20070130_023901_000000372055_00103_25708_9349.N1	30-JAN-2007 02:39:01	Dark	37.000	141	Bet Ara	2.8400	4600.0	74	25708	No
39	GOM_TRA_1PNPDE20070130_024233_000000372055_00104_25709_9350.N1	30-JAN-2007 02:42:33	Dark	37.000	134	Bet TrA	2.8100	6600.0	74	25709	No
40	GOM_TRA_1PNPDE20070130_024411_000000412055_00104_25709_9351.N1	30-JAN-2007 02:44:11	Dark	40.500	4	Alp1Cen	-0.010000	5800.0	81	25709	No
41	GOM_TRA_1PNPDE20070130_024846_000000442055_00104_25709_9352.N1	30-JAN-2007 02:48:46	Dark	43.500	12	Alp1Cru	0.77500	30000.	87	25709	No
42	GOM_TRA_1PNPDE20070130_025227_000000372055_00104_25709_9353.N1	30-JAN-2007 02:52:27	Dark	37.000	29	Bet Car	1.6720	10200.	74	25709	No
43	GOM_TRA_1PNPDE20070130_025446_000000412055_00104_25709_9354.N1	30-JAN-2007 02:54:46	Dark	40.500	71	lot Car	2.2460	7700.0	81	25709	No
44	GOM_TRA_1PNPDE20070130_025632_000000412055_00104_25709_9355.N1	30-JAN-2007 02:56:32	Dark	40.500	46	Del Vel	1.9540	10600.	81	25709	No
45	GOM_TRA_1PNPDE20070130_025905_000000412055_00104_25709_9356.N1	30-JAN-2007 02:59:05	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	25709	No
46	GOM_TRA_1PNPDE20070130_030110_000000402055_00104_25709_9357.N1	30-JAN-2007 03:01:10	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	25709	No
47	GOM_TRA_1PNPDE20070130_030234_000000402055_00104_25709_9358.N1	30-JAN-2007 03:02:34	Straylight	40.000	117	Pi Pup	2.7060	3800.0	80	25709	No
48	GOM_TRA_1PNPDE20070130_030501_000000412055_00104_25709_9359.N1	30-JAN-2007 03:05:01	Straylight	41.000	23	21Eps CMa	1.5020	26000.	82	25709	No
49	GOM_TRA_1PNPDE20070130_030624_000000392055_00104_25709_9360.N1	30-JAN-2007 03:06:24	Straylight	38.500	179	24Omi2CMa	3.0320	24000.	77	25709	No
50	GOM_TRA_1PNPDE20070130_030833_000000452055_00104_25709_9361.N1	30-JAN-2007 03:08:33	Straylight	45.000	1	9Alp CMa	-1.4400	11000.	90	25709	No

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



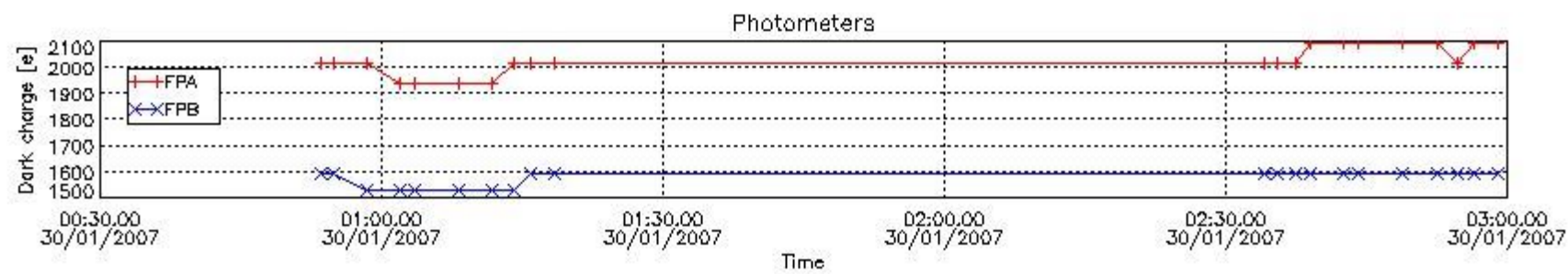
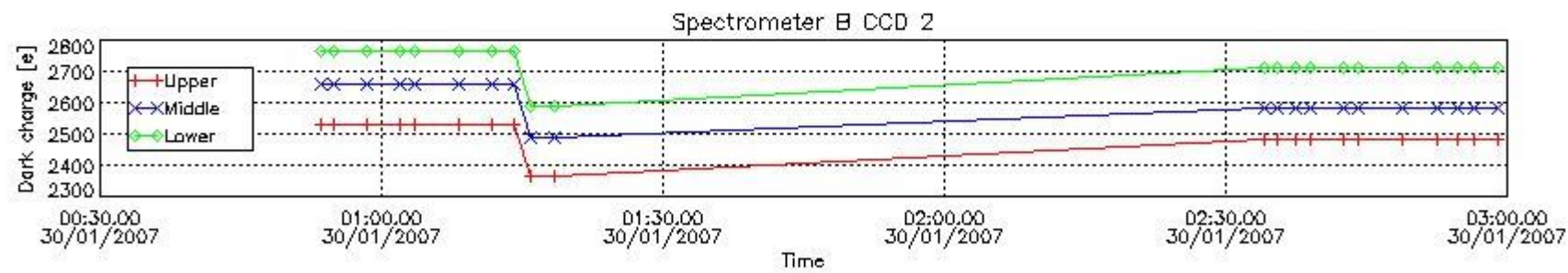
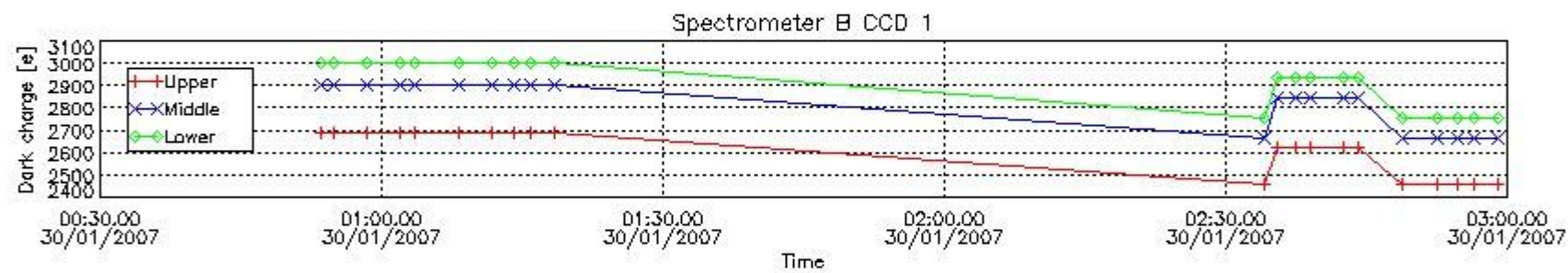
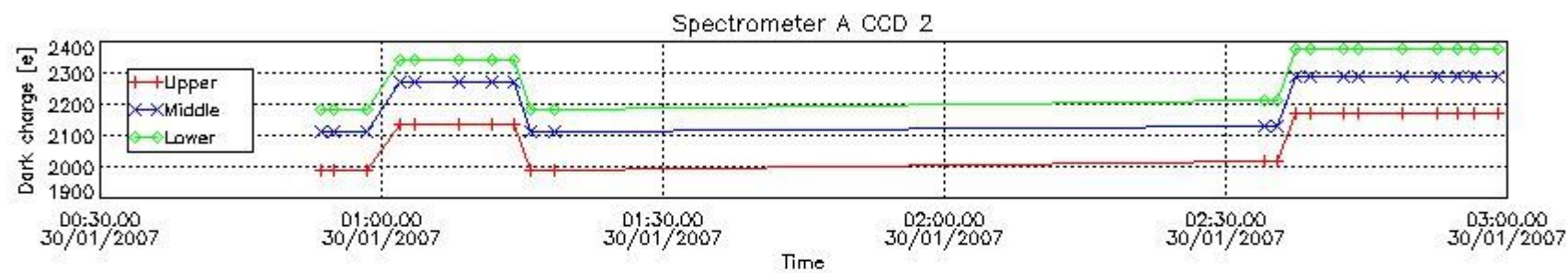
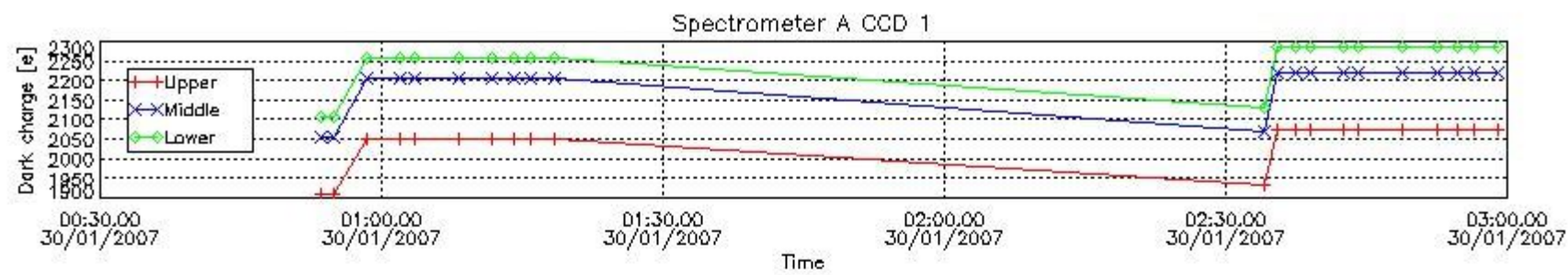
4. Overview of dark signal processing per product

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



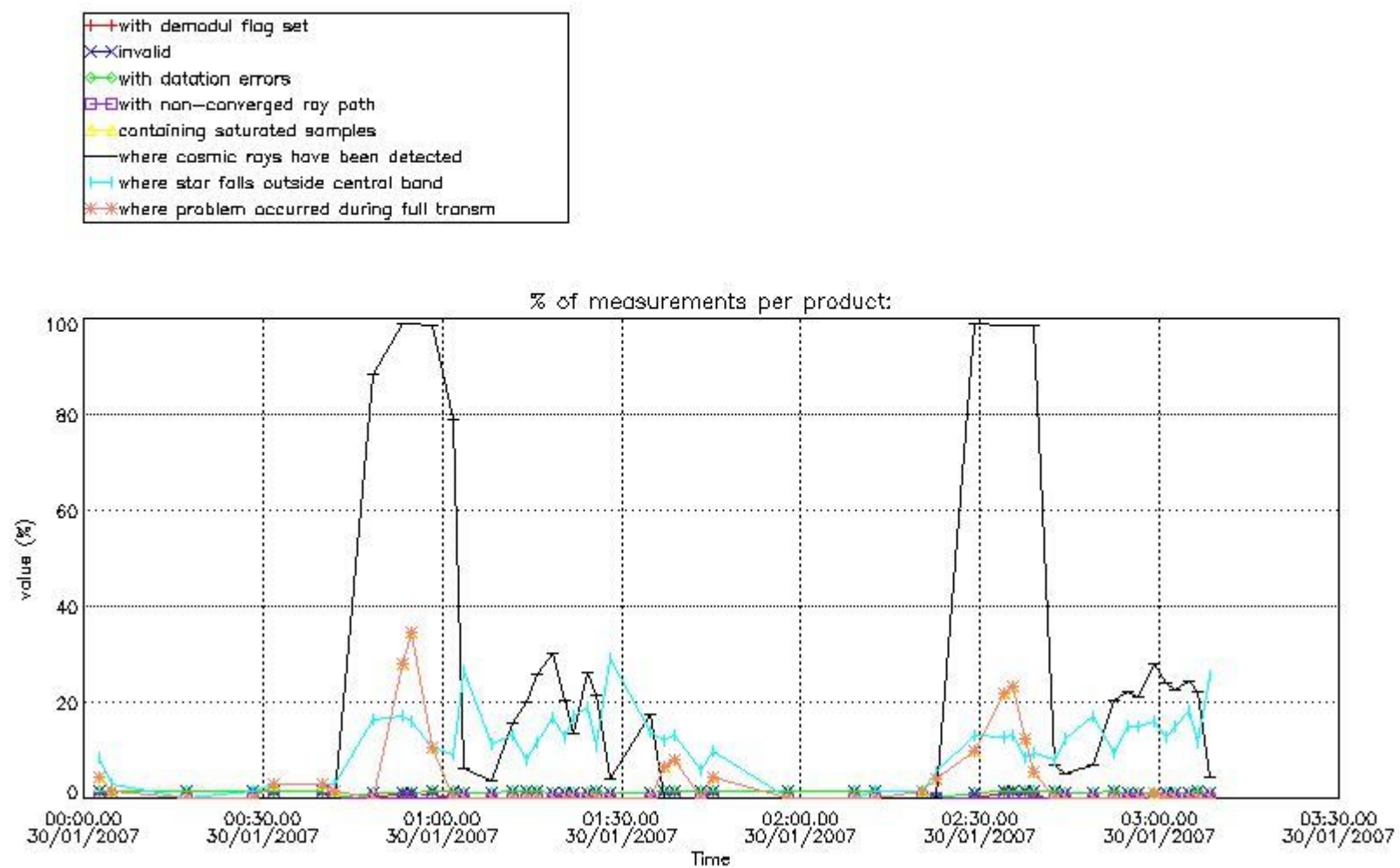
5. Demodulation flag and quality information monitoring

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.

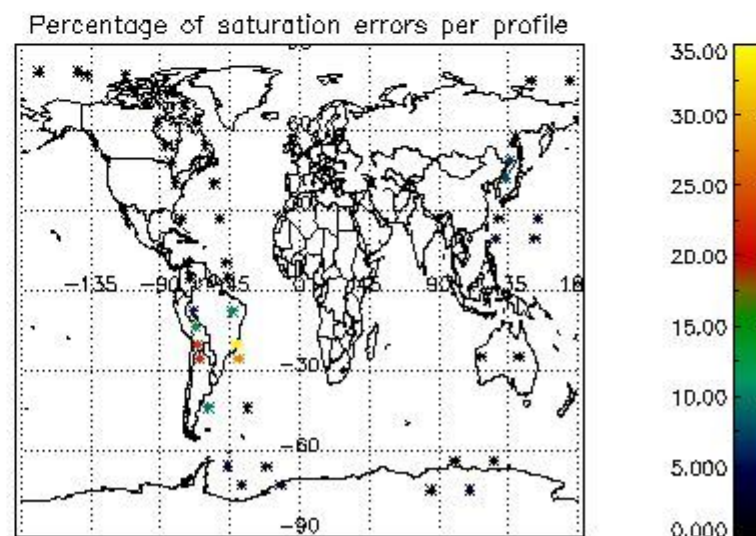
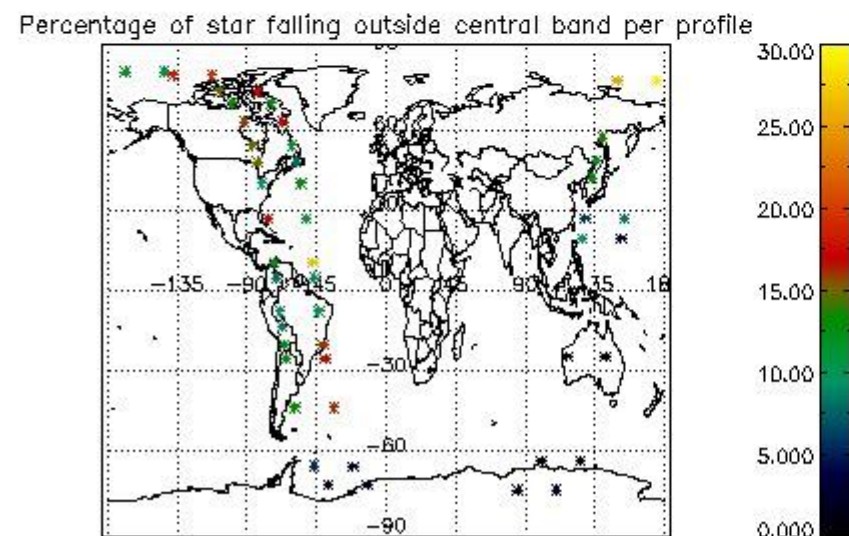
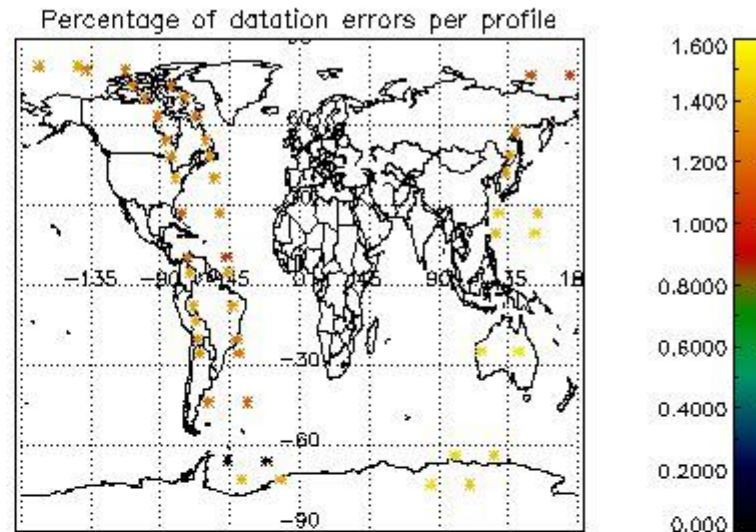
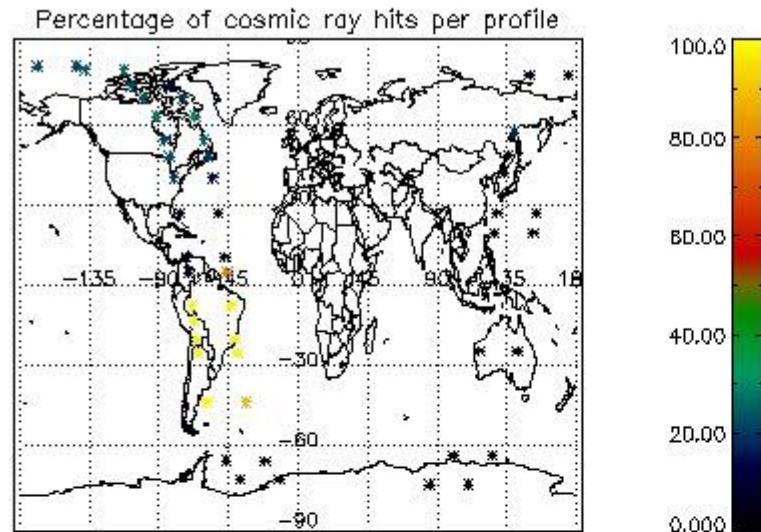
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



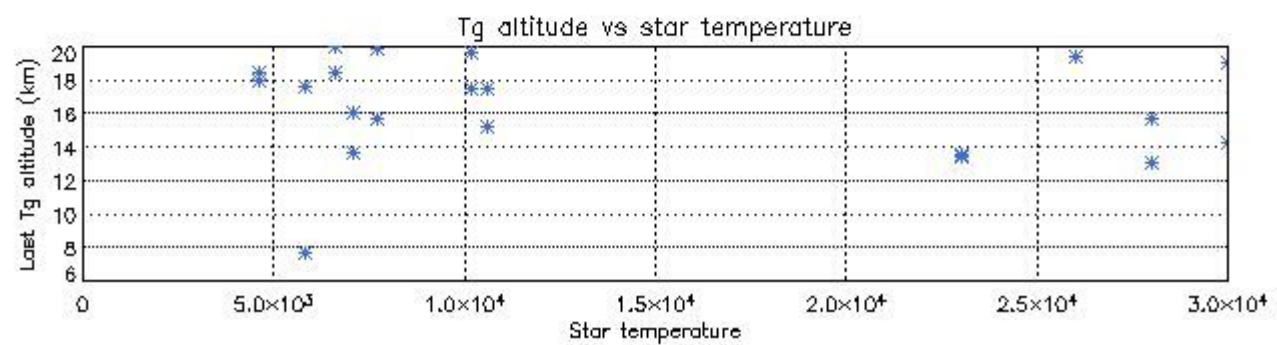
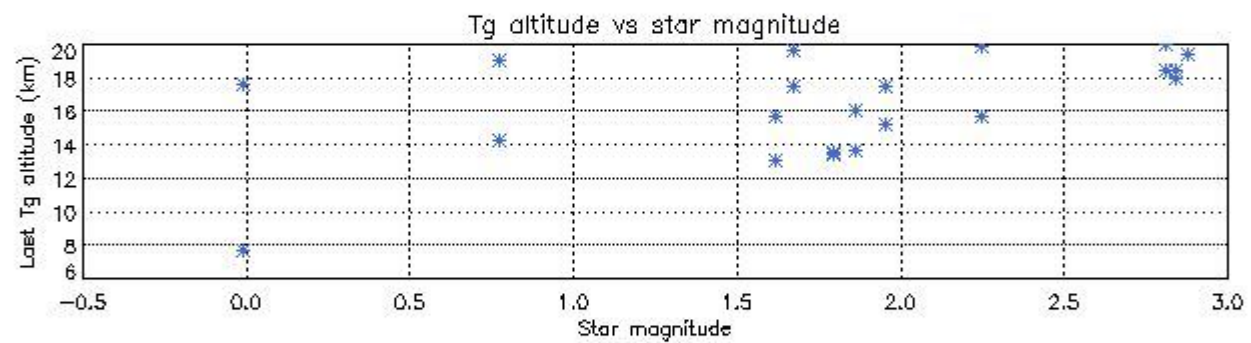
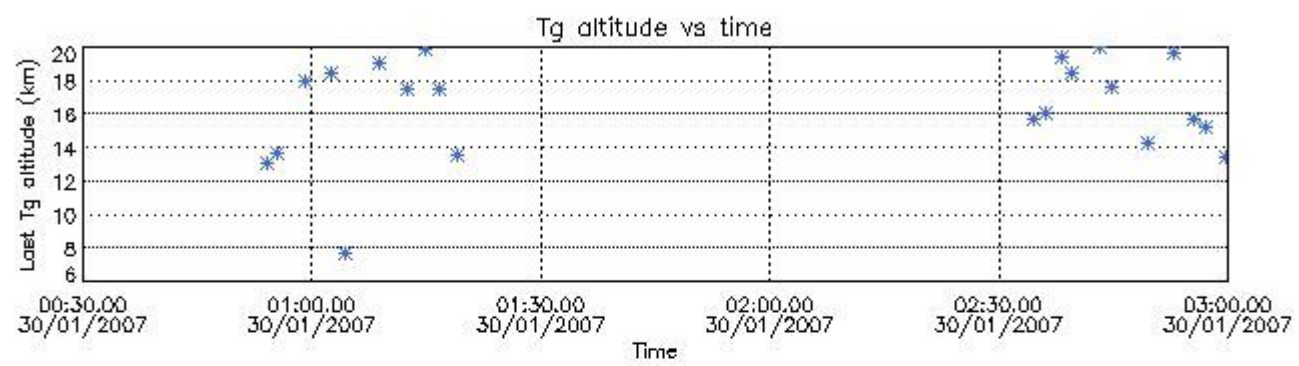
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.365	22.861	NaN
St. deviation:	3.0404	3.5650	NaN
Maximum:	19.946	28.728	NaN
Minimum:	7.6293	16.103	NaN
Number of data:	21.000	16.000	NaN

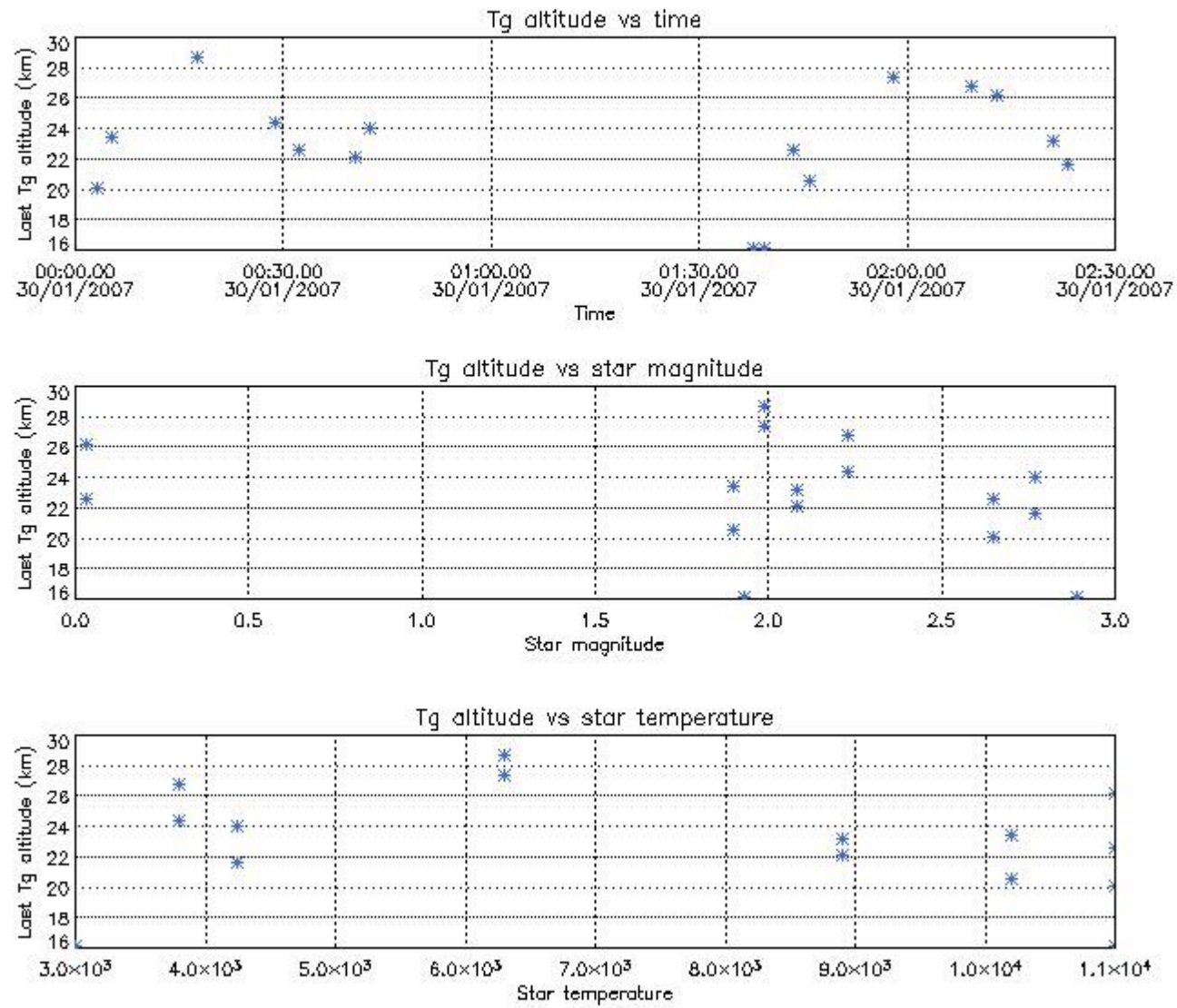
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

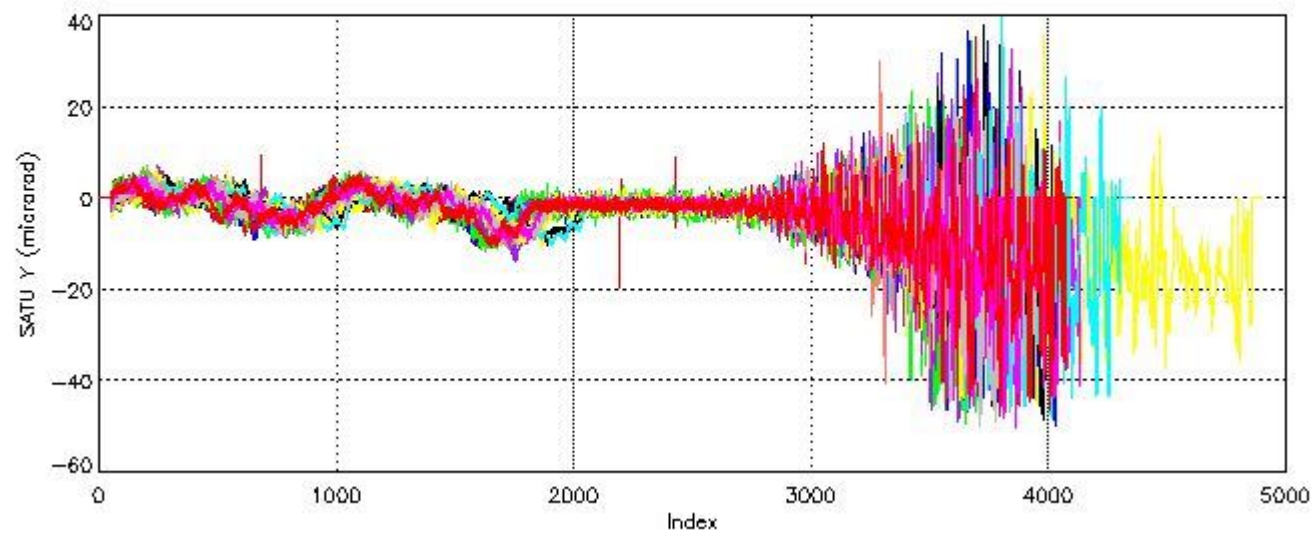
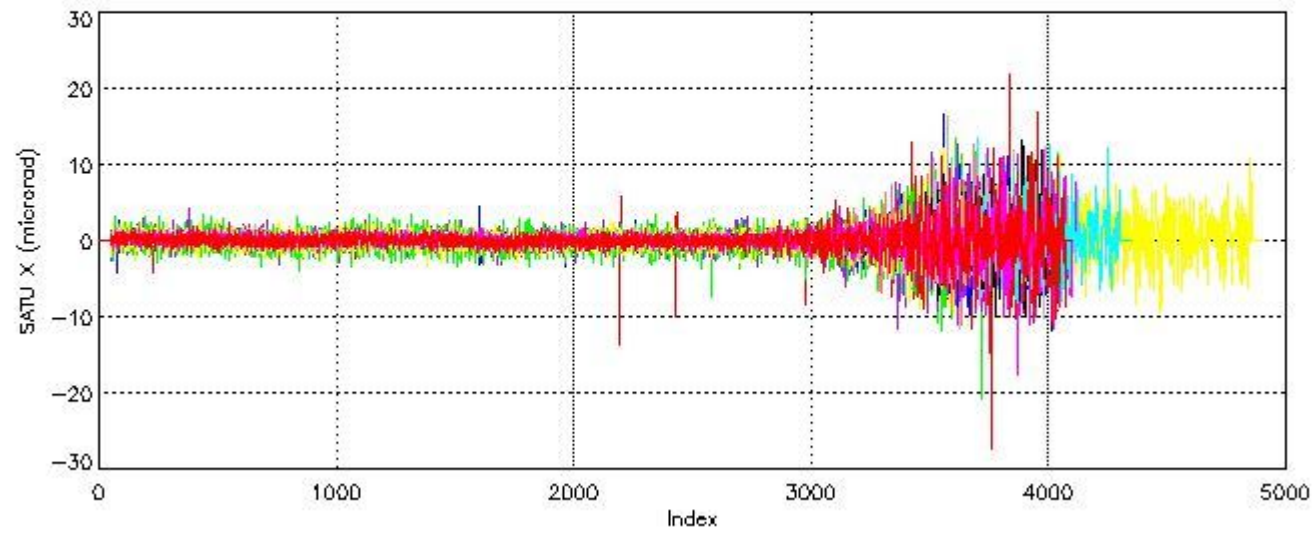


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.080364	-0.63249	0.021998	-0.95263
St. deviation:	0.49485	2.5615	0.59142	2.3472
Maximum:	4.3000	9.2000	4.4000	8.4000
Minimum:	-4.2000	-9.2000	-3.8000	-8.3000

Number of data:	18150.	18150.	13100.	13100.
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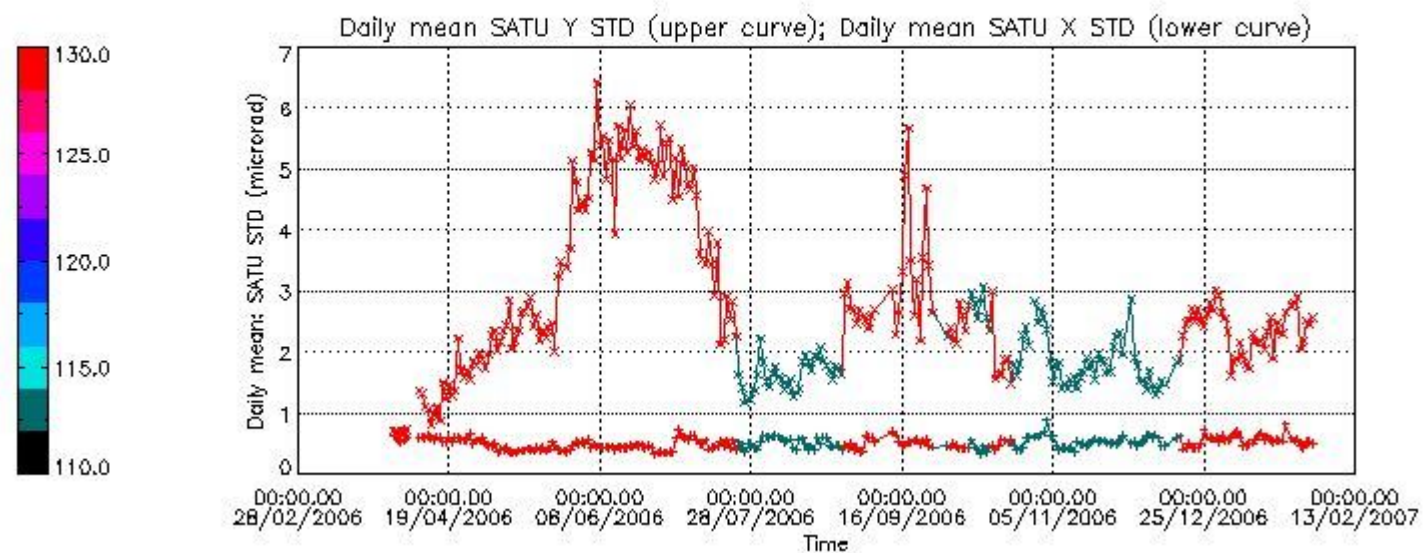
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

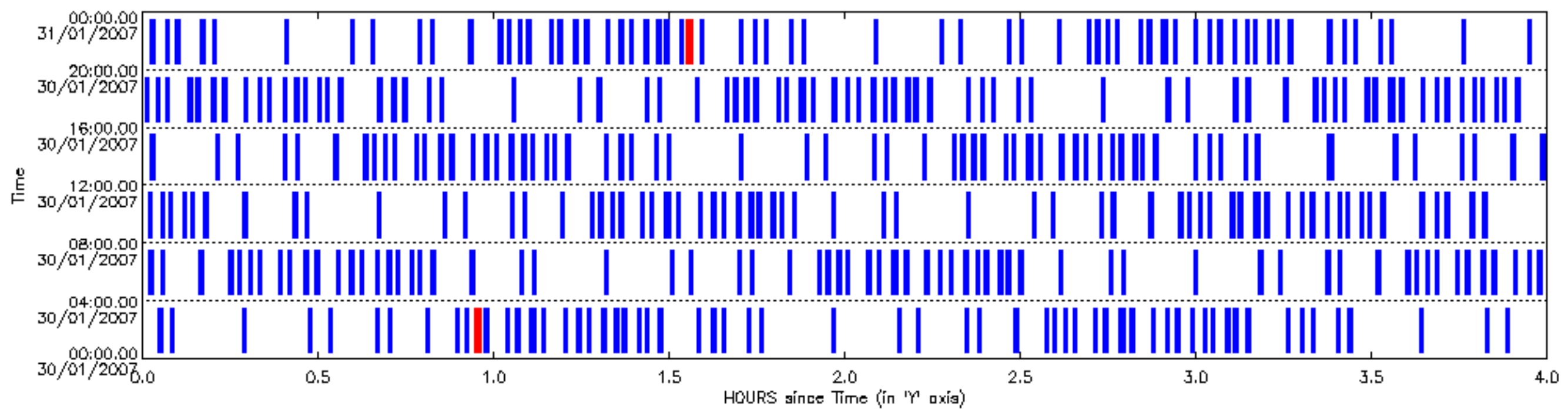
Lower curve: STD of SATU X axis

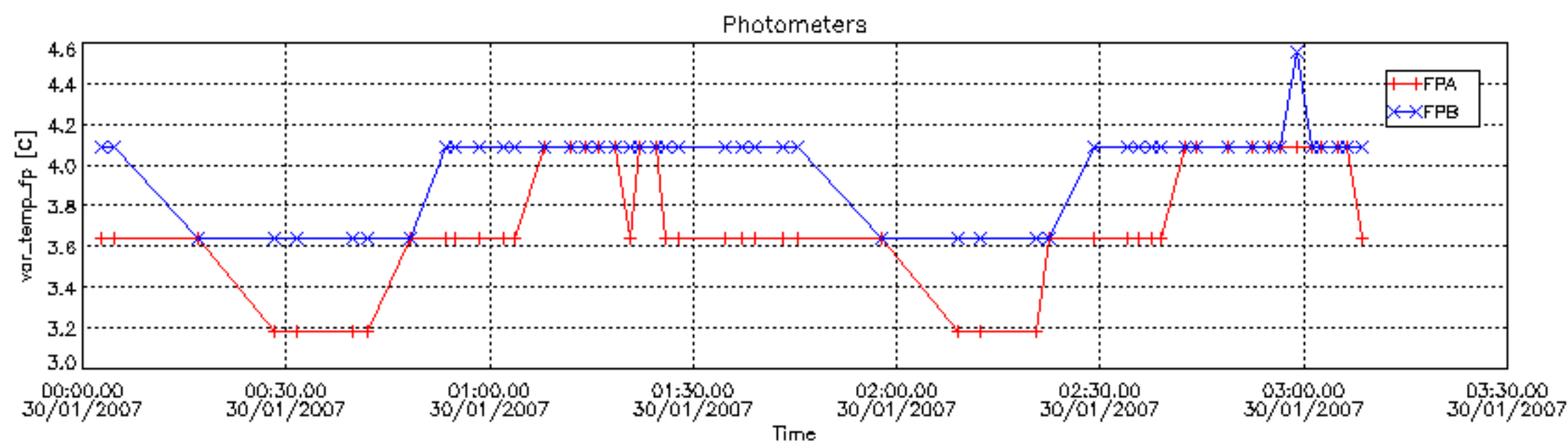
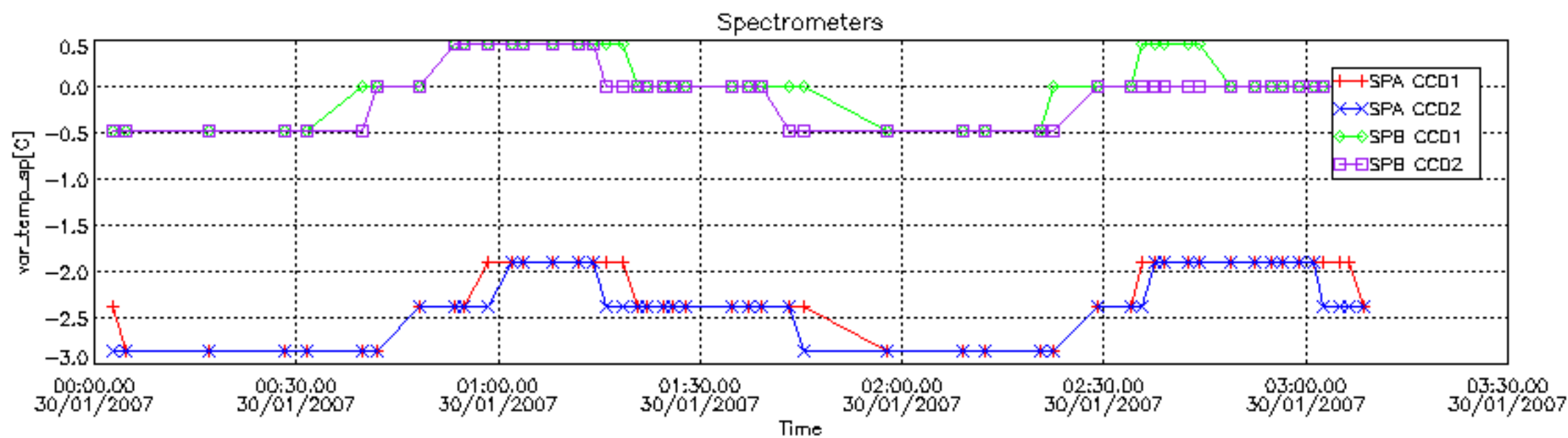


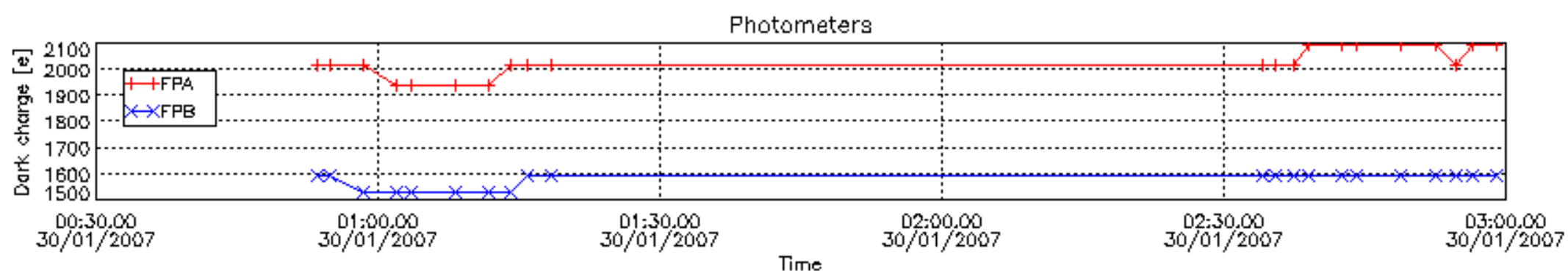
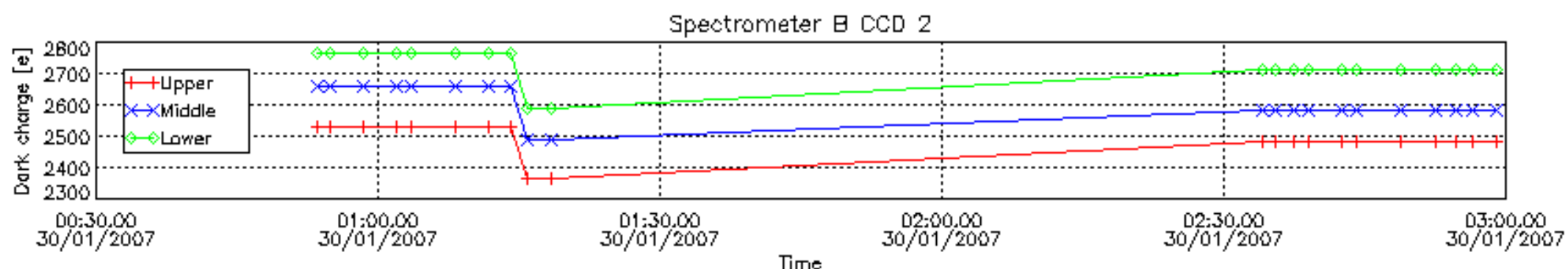
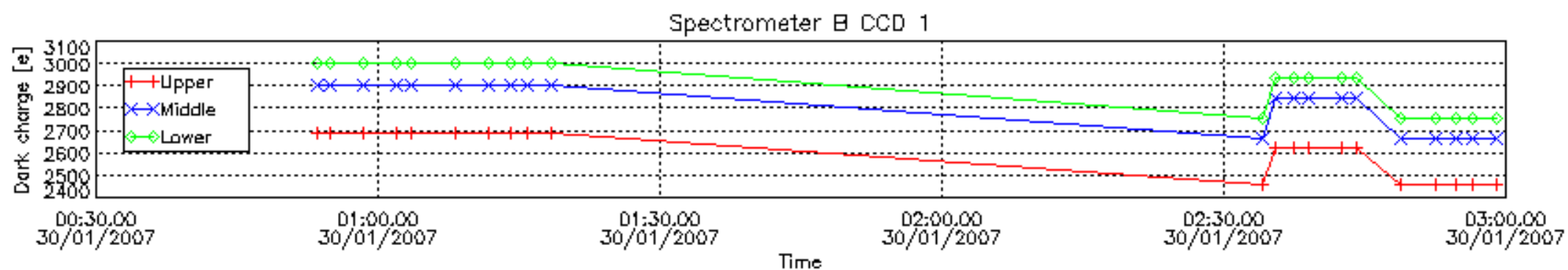
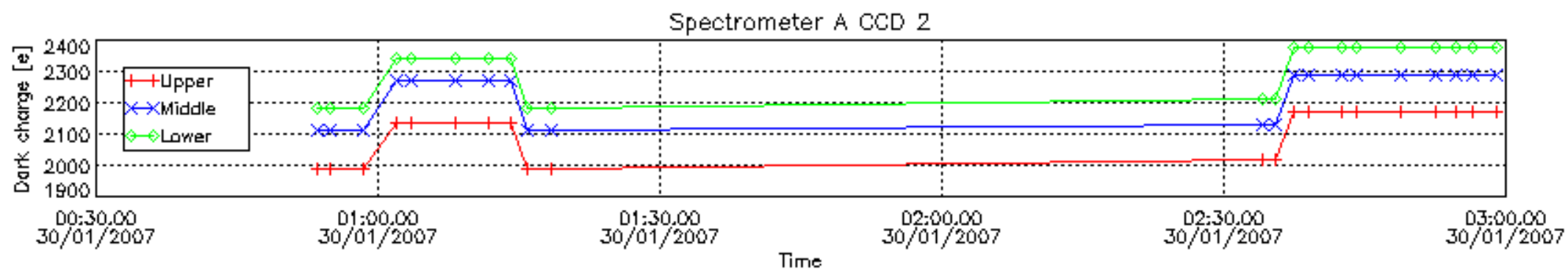
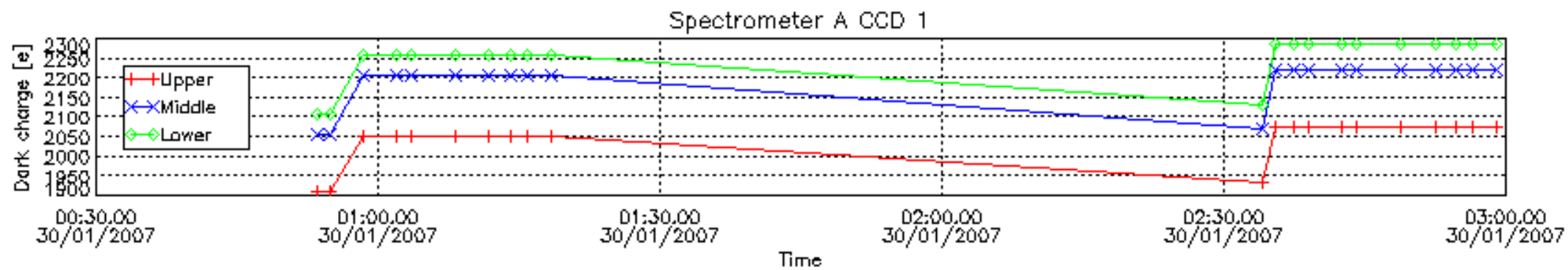
8. Auxiliary Data Files used for the production reported in section 2.4

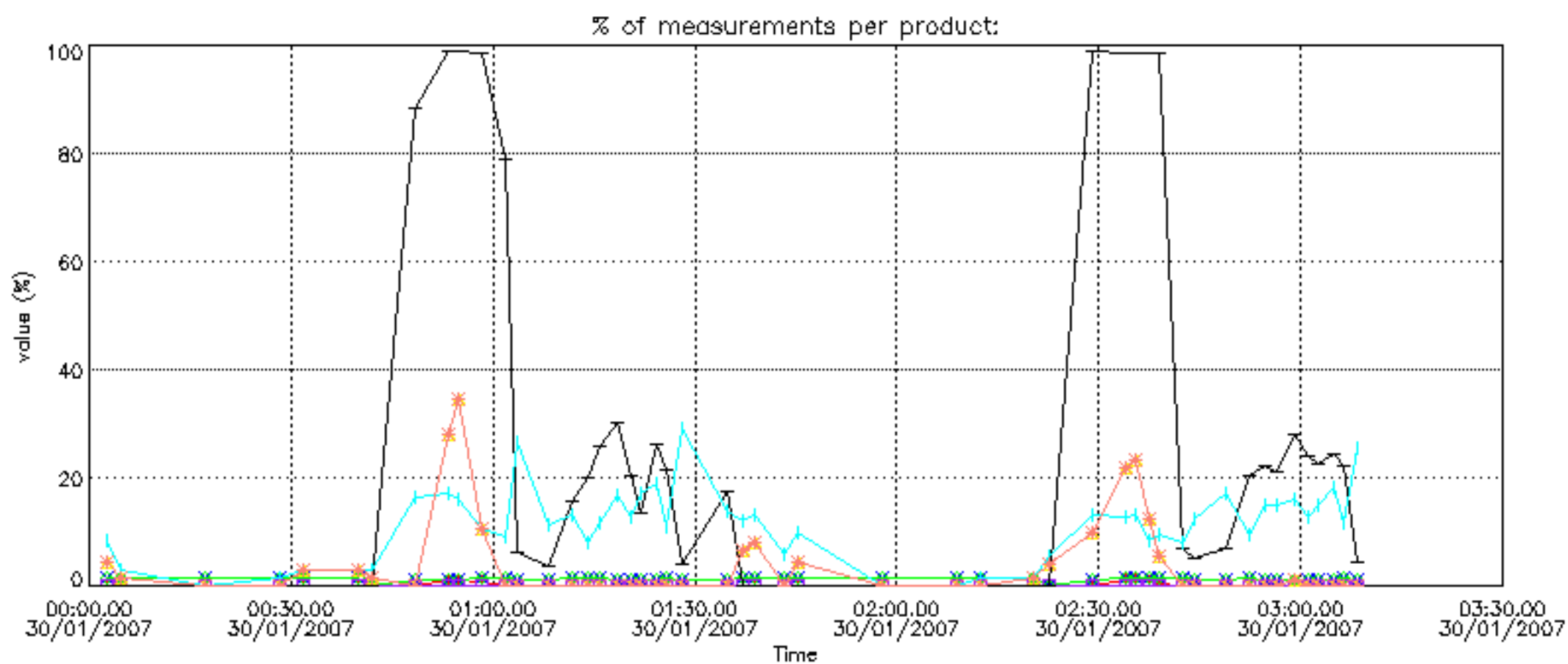
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	30-JAN-2007 00:02:41
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070129_101958_20070128_000000_20100101_000000	1	30-JAN-2007 00:02:41
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	30-JAN-2007 00:02:41
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-JAN-2007 00:02:41
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	30-JAN-2007 00:02:41
ECMWF_FILE	AUX_ECF_AXNECM20070129_061129_20070129_210000_20070130_090000	1	30-JAN-2007 00:02:41
OPTIONAL_ECMWF_FILE	MISSING	1	30-JAN-2007 00:02:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070129_212215_000057382055_00100_25705_2682.N1	1	30-JAN-2007 00:02:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070129_230312_000057382055_00101_25706_2683.N1	8	30-JAN-2007 00:48:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070130_004409_000054192055_00102_25707_2684.N1	34	30-JAN-2007 02:28:55

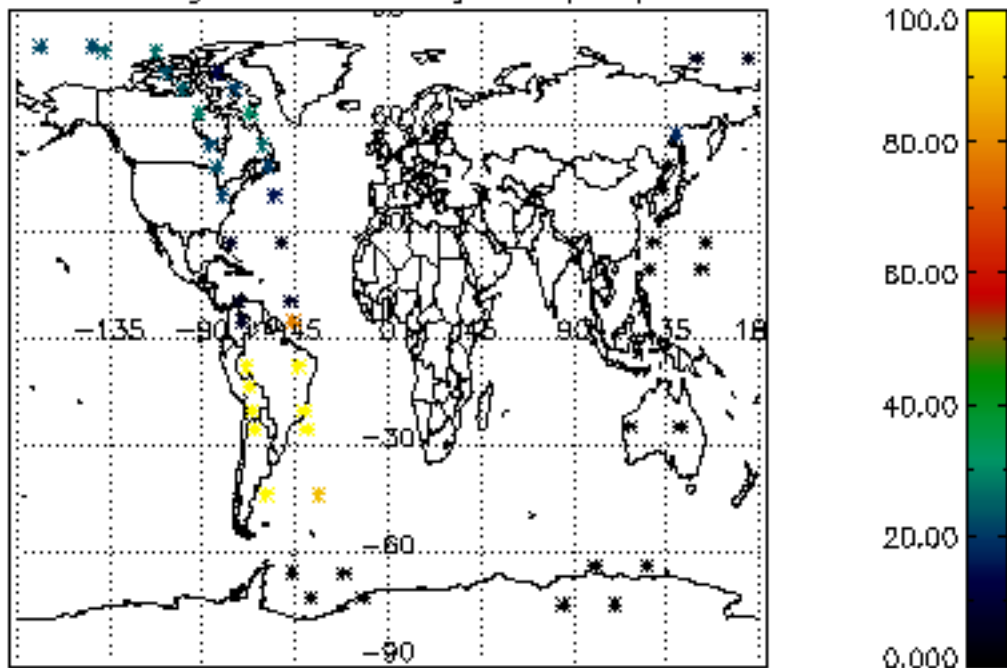




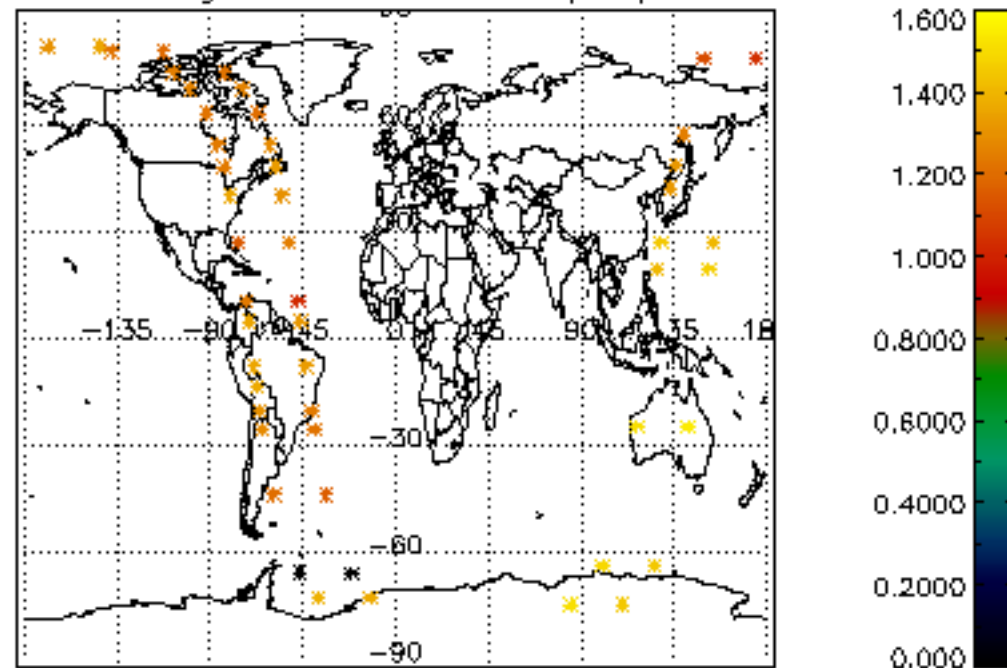




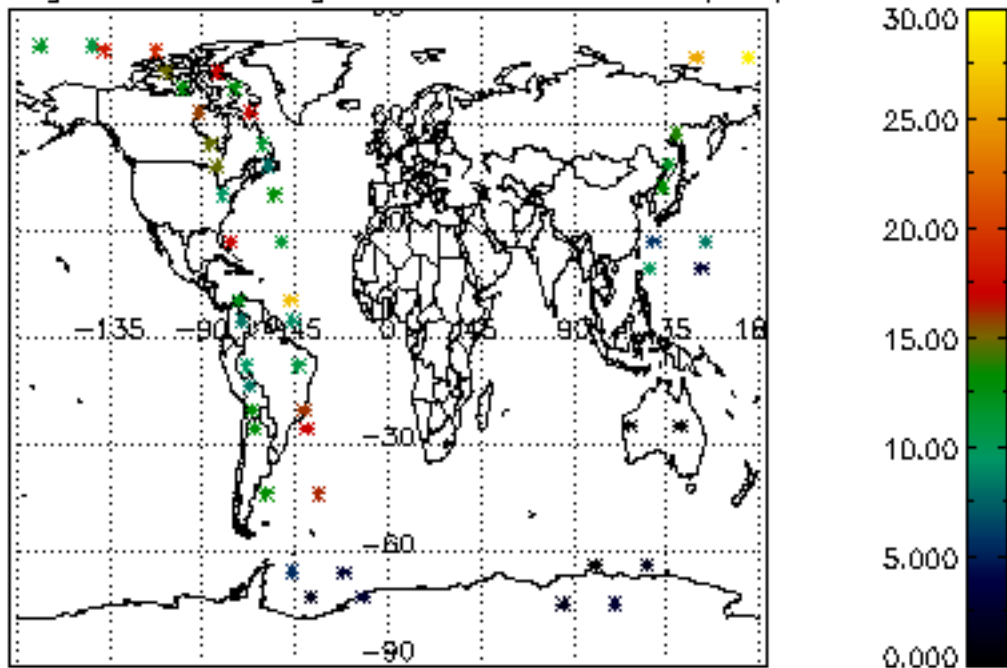
Percentage of cosmic ray hits per profile



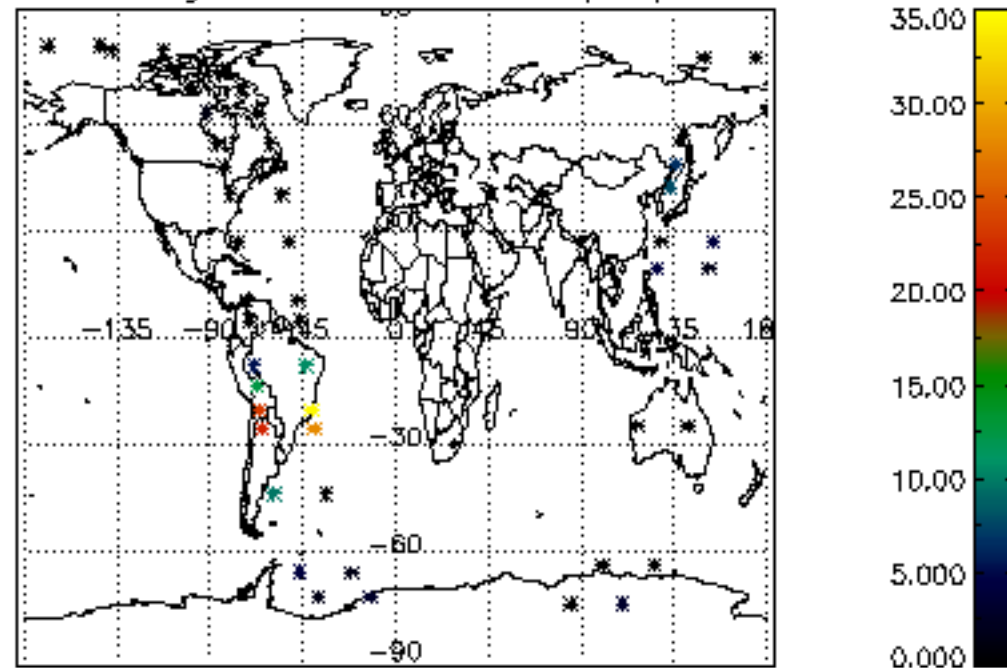
Percentage of datation errors per profile



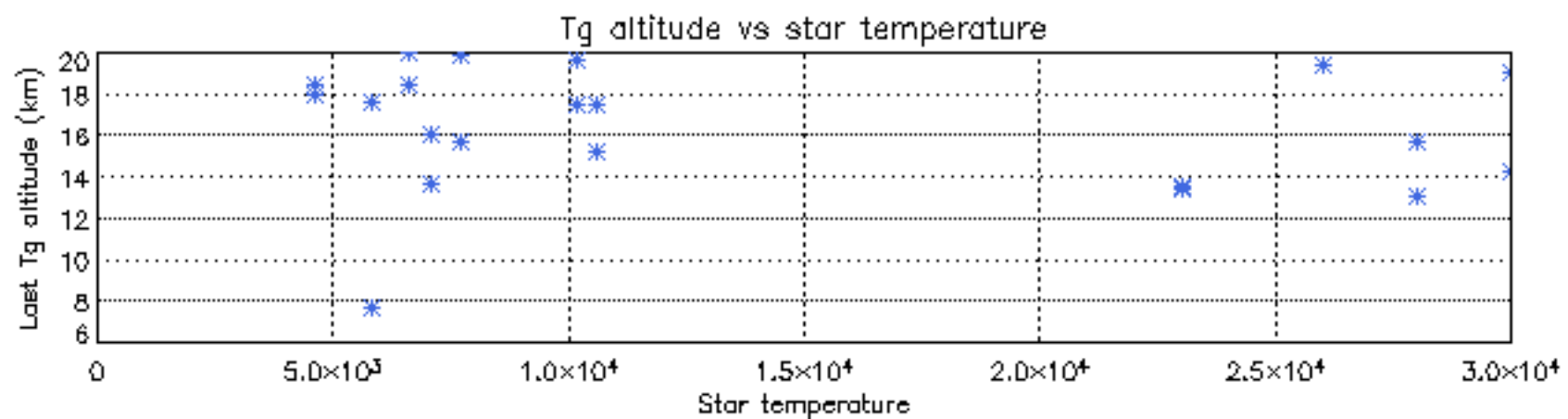
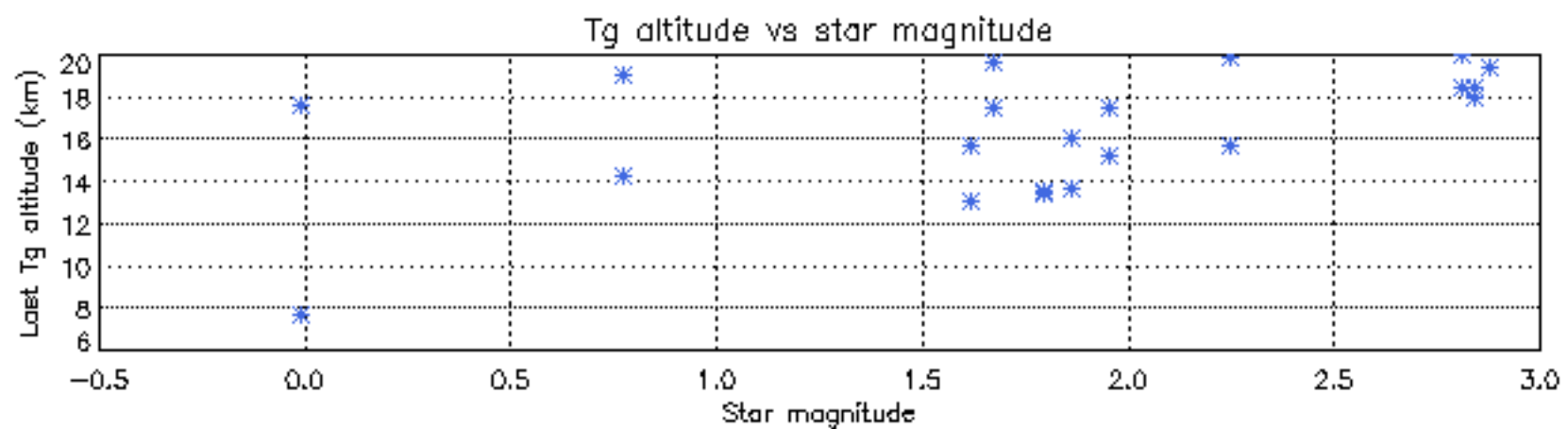
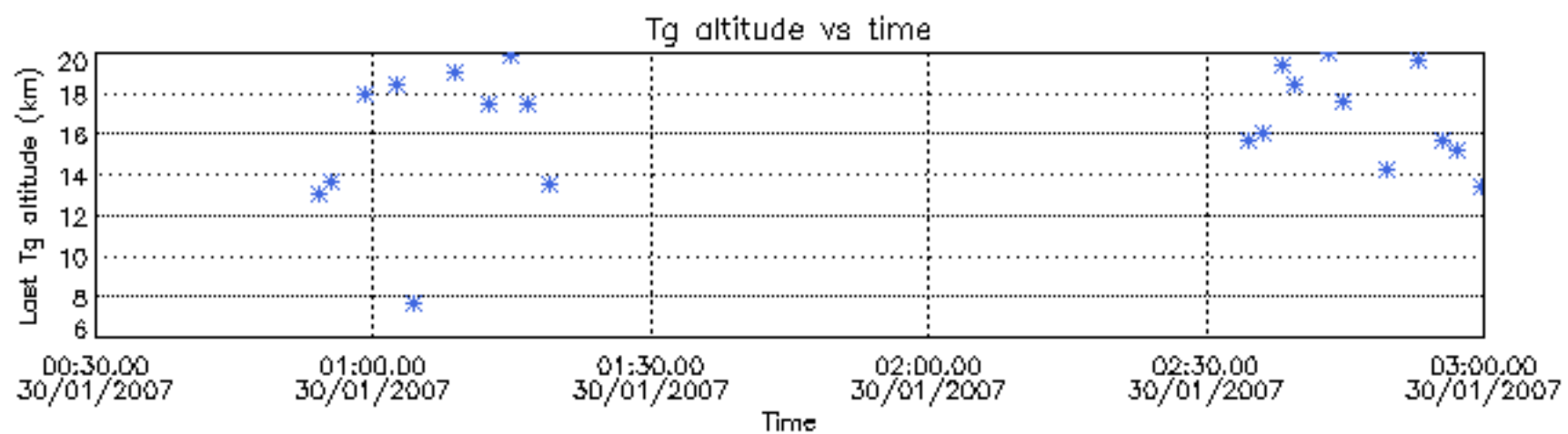
Percentage of star falling outside central band per profile



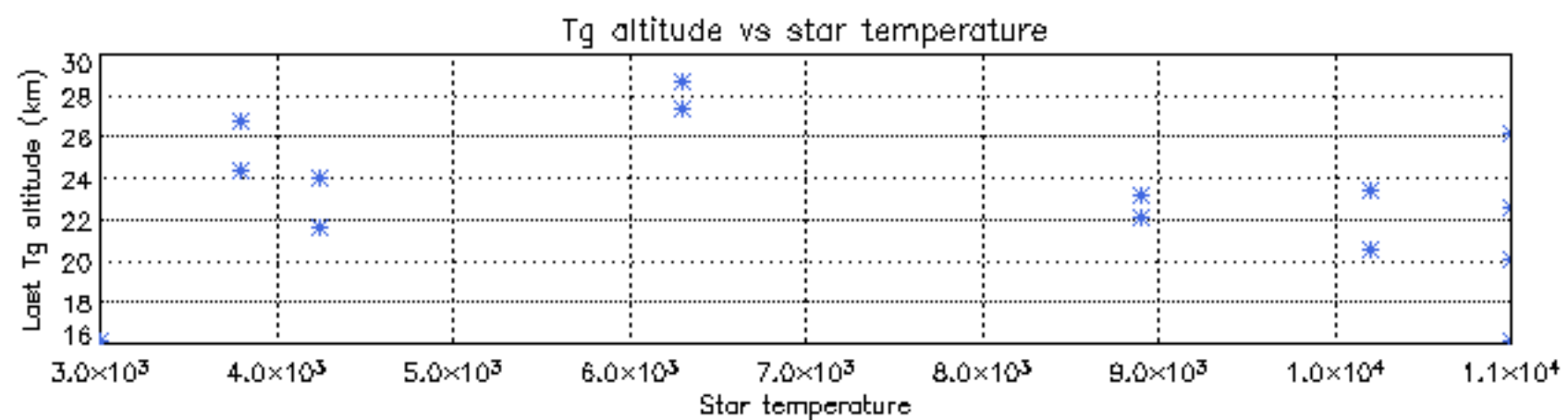
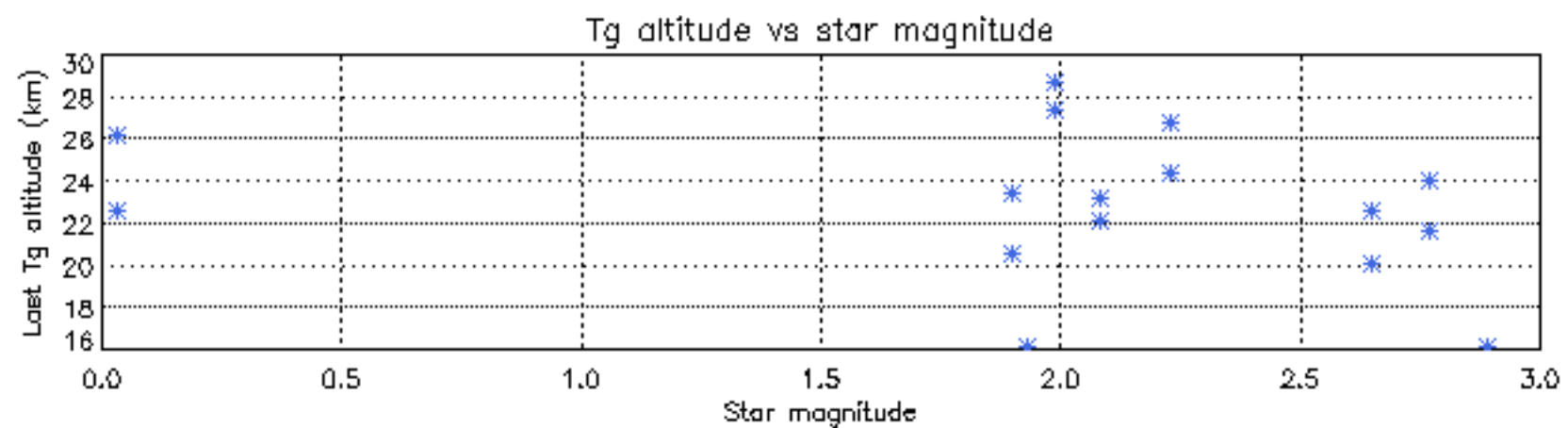
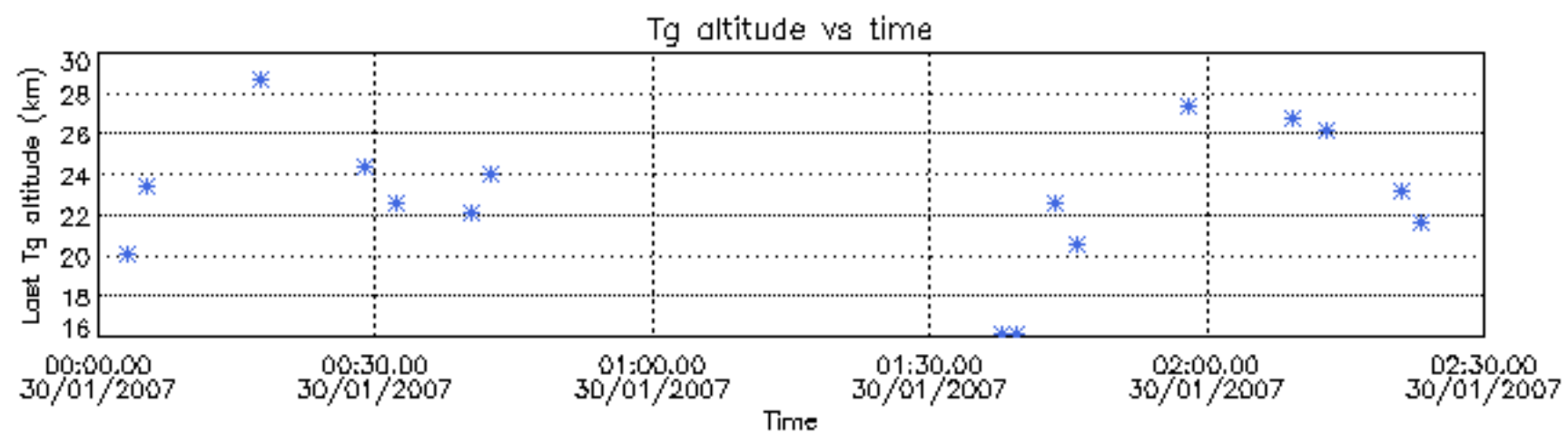
Percentage of saturation errors per profile

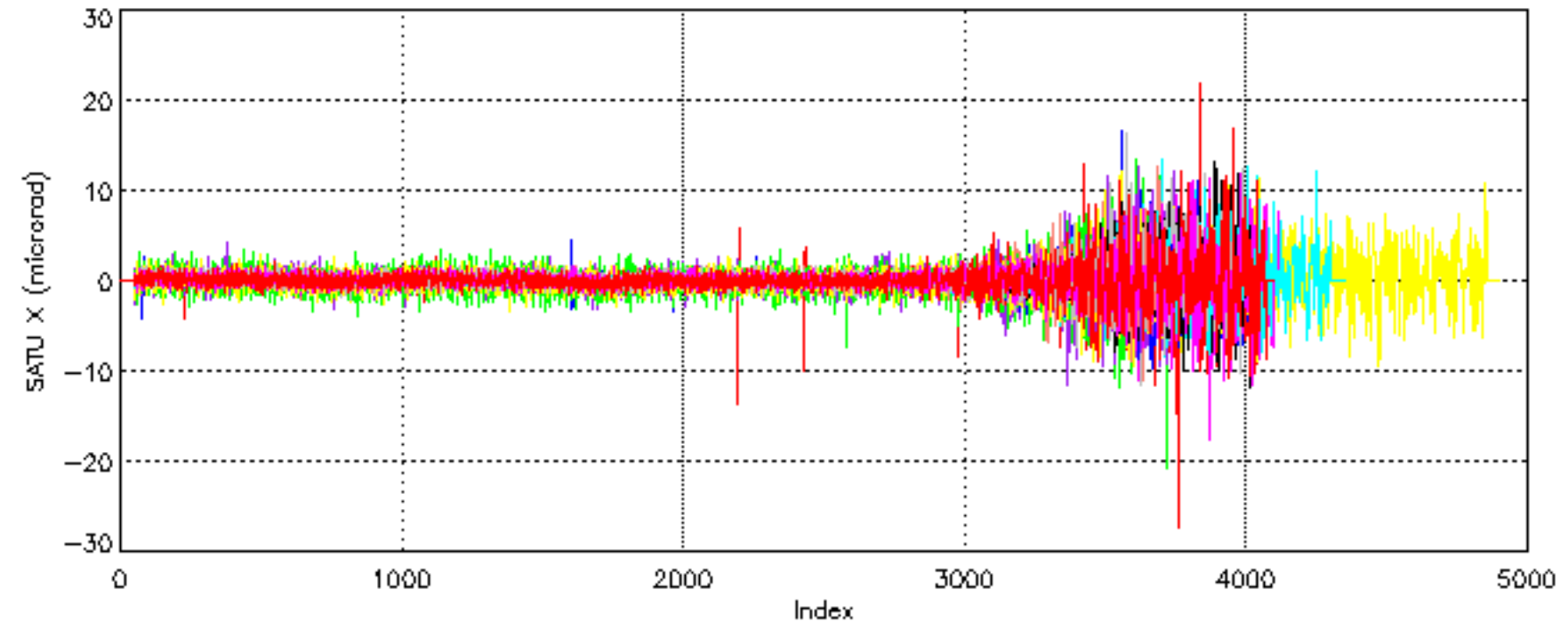


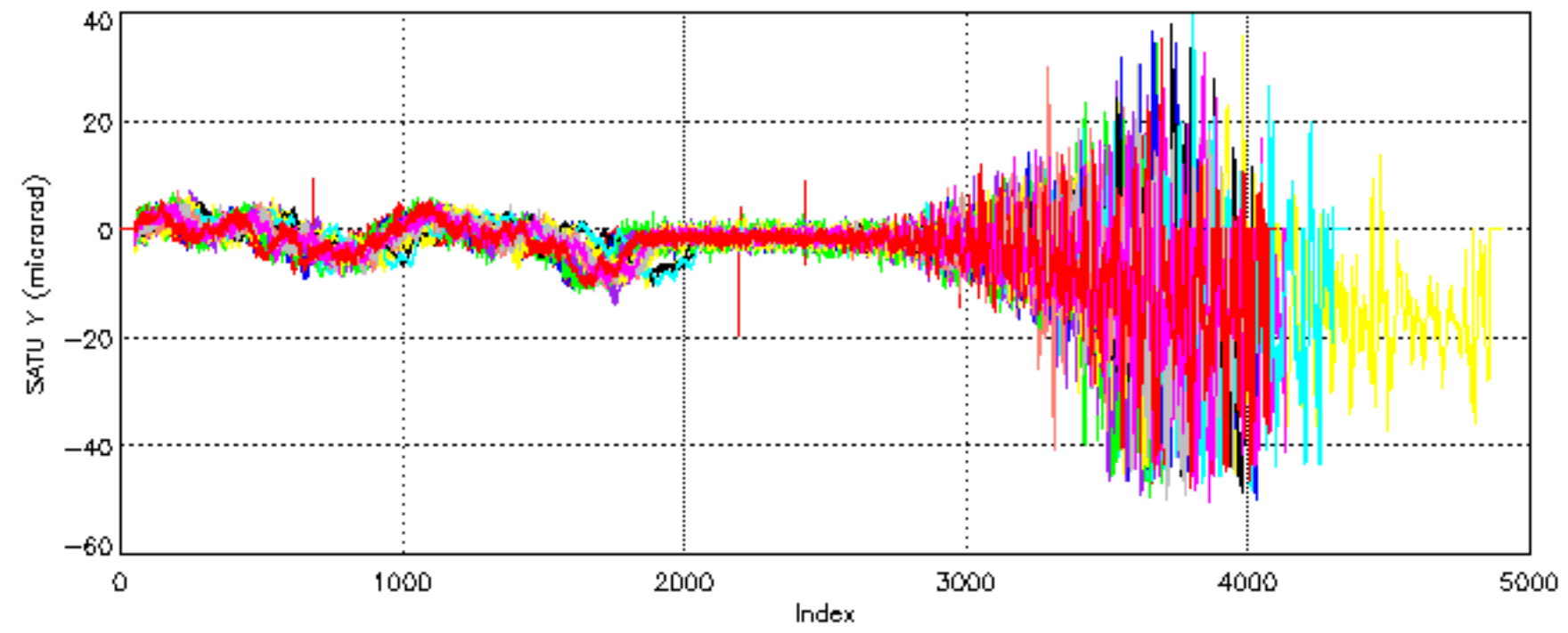
Tangent altitude at which the star is lost

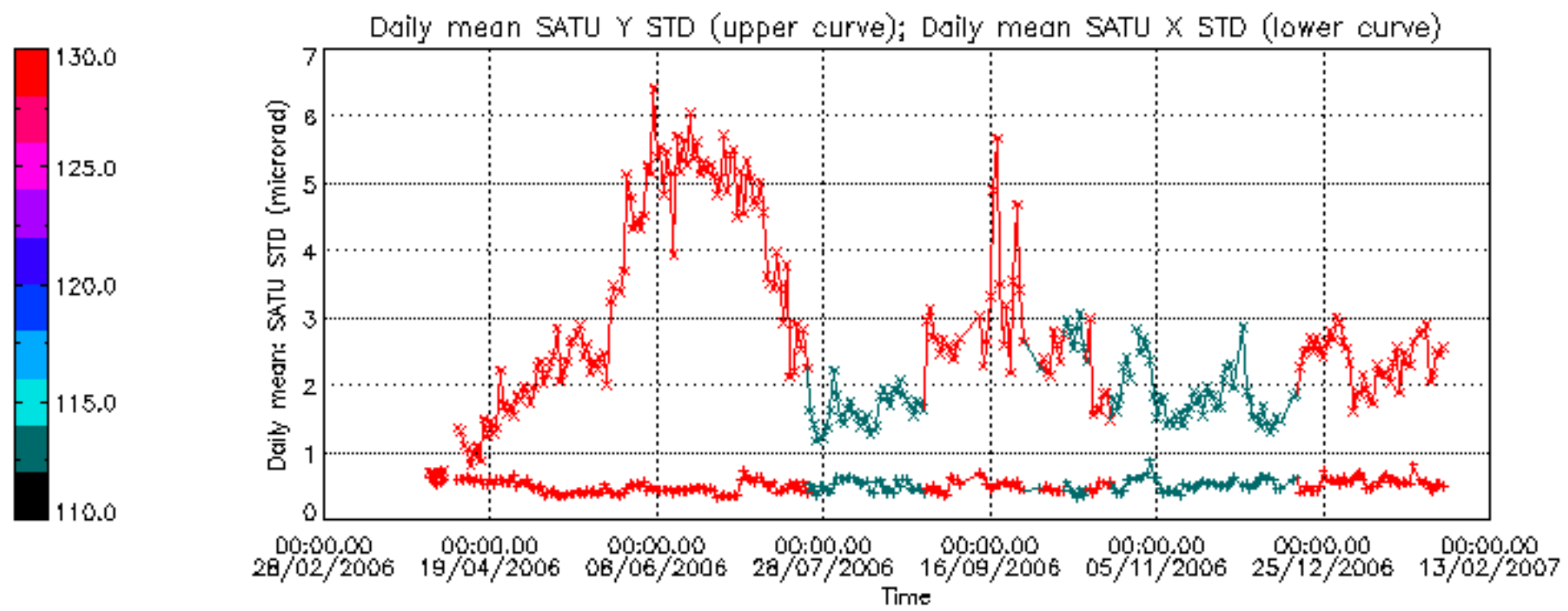


Tangent altitude at which the star is lost









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1; -684.5; 01-JAN-2007 01:00:46; Dark ; 42.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 85; 0;25292
 2; -193.3; 01-JAN-2007 01:08:57; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;25292
 3; -105.1; 01-JAN-2007 01:10:25; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25292
 4; 38.6; 01-JAN-2007 01:12:49; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25293
 5; 228.2; 01-JAN-2007 01:15:58; Dark ; 49.0; 12; Alp1Cru ; 0.77; 30000;occ; 98; 0;25293
 6; 429.2; 01-JAN-2007 01:19:19; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25293
 7; 546.4; 01-JAN-2007 01:21:17; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25293
 8; 629.3; 01-JAN-2007 01:22:40; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;25293
 9; 731.4; 01-JAN-2007 01:24:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25293
 10; 978.2; 01-JAN-2007 01:28:28; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;25293
 11; 1171.6; 01-JAN-2007 01:31:42; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;25293
 12; 1340.2; 01-JAN-2007 01:34:30; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;25293
 13; 1569.2; 01-JAN-2007 01:38:19; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;25293
 14; 1769.4; 01-JAN-2007 01:41:40; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25293
 15; 1881.5; 01-JAN-2007 01:43:32; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25293
 16; 2033.3; 01-JAN-2007 01:46:04; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25293
 17; 2271.5; 01-JAN-2007 01:50:02; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25293
 18; 2397.8; 01-JAN-2007 01:52:08; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;25293
 19; 2472.5; 01-JAN-2007 01:53:23; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;25293
 20; 2568.2; 01-JAN-2007 01:54:58; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25293
 21; 2693.1; 01-JAN-2007 01:57:03; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;25293
 22; 3423.2; 01-JAN-2007 02:09:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;25293
 23; 3691.3; 01-JAN-2007 02:13:42; Bright; 5.5; 60; 7Bet UMi ; 2.08; 3950;occ; 11; 0;25293

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 2; -2114.0; 01-JAN-2007 02:17:32; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25293
 3; -1490.4; 01-JAN-2007 02:27:56; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;25293
 4; -1146.0; 01-JAN-2007 02:33:40; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;25293
 5; -842.6; 01-JAN-2007 02:38:44; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25293
 6; -281.2; 01-JAN-2007 02:48:05; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25293
 7; -192.8; 01-JAN-2007 02:49:33; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;25293
 8; -104.3; 01-JAN-2007 02:51:02; Dark ; 39.0; 95; Zet Cen ; 2.55; 26000;occ; 78; 0;25293
 9; 39.0; 01-JAN-2007 02:53:25; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;25294
 10; 228.9; 01-JAN-2007 02:56:35; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;25294
 11; 429.7; 01-JAN-2007 02:59:56; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25294
 12; 547.0; 01-JAN-2007 03:01:53; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25294
 13; 629.9; 01-JAN-2007 03:03:16; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;25294
 14; 732.0; 01-JAN-2007 03:04:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25294
 15; 978.5; 01-JAN-2007 03:09:05; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;25294
 16; 1172.1; 01-JAN-2007 03:12:18; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;25294
 17; 1340.5; 01-JAN-2007 03:15:07; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;25294
 18; 1569.2; 01-JAN-2007 03:18:55; Dark ; 44.5; 47; 2Bet CMA ; 1.98; 28000;occ; 89; 0;25294
 19; 1769.6; 01-JAN-2007 03:22:16; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25294
 20; 1881.5; 01-JAN-2007 03:24:08; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25294
 21; 2033.2; 01-JAN-2007 03:26:39; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;25294
 22; 2271.5; 01-JAN-2007 03:30:38; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;25294
 23; 2397.7; 01-JAN-2007 03:32:44; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;25294
 24; 2472.6; 01-JAN-2007 03:33:59; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;25294
 25; 2567.8; 01-JAN-2007 03:35:34; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25294
 26; 2693.1; 01-JAN-2007 03:37:39; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;25294
 27; 3423.2; 01-JAN-2007 03:49:49; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;25294

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 2; -2114.0; 01-JAN-2007 03:58:08; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;25294
 3; -1614.0; 01-JAN-2007 04:06:28; Bright; 28.0; 133; 40Zet Her ; 2.81; 6000;occ; 56; 0;25294
 4; -1490.3; 01-JAN-2007 04:08:32; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;25294
 5; -1145.6; 01-JAN-2007 04:14:17; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;25294
 6; -842.4; 01-JAN-2007 04:19:20; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;25294
 7; -683.3; 01-JAN-2007 04:21:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;25294
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 9; -192.3; 01-JAN-2007 04:30:10; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;25294
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 11; 39.4; 01-JAN-2007 04:34:02; Dark ; 49.5; 10; Bet Cen ; 0.61; 28000;occ; 99; 0;25295
 12; 229.3; 01-JAN-2007 04:37:11; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;25295
 13; 430.3; 01-JAN-2007 04:40:32; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;25295
 14; 547.2; 01-JAN-2007 04:42:29; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25295
 15; 630.4; 01-JAN-2007 04:43:53; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;25295

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16; 732.5; 01-JAN-2007 04:45:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25295
17; 978.8; 01-JAN-2007 04:49:41; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;25295
18; 1172.4; 01-JAN-2007 04:52:55; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;25295
19; 1340.8; 01-JAN-2007 04:55:43; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;25295
20; 1569.4; 01-JAN-2007 04:59:32; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;25295
21; 1769.7; 01-JAN-2007 05:02:52; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;25295
22; 1881.5; 01-JAN-2007 05:04:44; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;25295
23; 2033.2; 01-JAN-2007 05:07:15; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25295
24; 2271.4; 01-JAN-2007 05:11:14; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25295
25; 2397.7; 01-JAN-2007 05:13:20; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;25295
26; 2472.7; 01-JAN-2007 05:14:35; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;25295
27; 2567.6; 01-JAN-2007 05:16:10; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;25295
28; 2693.0; 01-JAN-2007 05:18:15; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;25295
29; 3423.2; 01-JAN-2007 05:30:25; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;25295
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3; -1614.0; 01-JAN-2007 05:47:04; Bright; 28.0; 133; 40Zet Her ; 2.81; 6000;occ; 56; 0;25295
4; -1490.2; 01-JAN-2007 05:49:08; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;25295
5; -1145.4; 01-JAN-2007 05:54:53; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;25295
6; -841.9; 01-JAN-2007 05:59:56; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25295
7; -682.8; 01-JAN-2007 06:02:35; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;25295
8; -280.4; 01-JAN-2007 06:09:18; Dark ; 36.5; 109; Bet Lup ; 2.68; 26000;occ; 73; 0;25295
9; -191.9; 01-JAN-2007 06:10:46; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;25295
10; -103.2; 01-JAN-2007 06:12:15; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25295
11; 39.8; 01-JAN-2007 06:14:38; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25296
12; 229.8; 01-JAN-2007 06:17:48; Dark ; 50.5; 12; Alp1Cru ; 0.77; 30000;occ; 101; 0;25296
13; 430.8; 01-JAN-2007 06:21:09; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25296
14; 547.5; 01-JAN-2007 06:23:06; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25296
15; 630.9; 01-JAN-2007 06:24:29; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;25296
16; 733.1; 01-JAN-2007 06:26:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25296
17; 979.1; 01-JAN-2007 06:30:17; Dark ; 43.5; 2; Alp Car ;-0.74; 7000;occ; 87; 0;25296
18; 1172.8; 01-JAN-2007 06:33:31; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;25296
19; 1341.0; 01-JAN-2007 06:36:19; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;25296
20; 1569.6; 01-JAN-2007 06:40:08; Dark ; 45.0; 47; 2Bet CMA ; 1.98; 28000;occ; 90; 0;25296
21; 1769.9; 01-JAN-2007 06:43:28; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;25296
22; 1881.6; 01-JAN-2007 06:45:20; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;25296
23; 2033.1; 01-JAN-2007 06:47:51; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;25296
24; 2271.2; 01-JAN-2007 06:51:49; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25296
25; 2397.5; 01-JAN-2007 06:53:56; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;25296
26; 2472.6; 01-JAN-2007 06:55:11; Bright; 38.5; 114; 3Iot Aur ; 2.69; 4600;occ; 77; 0;25296
27; 2567.5; 01-JAN-2007 06:56:46; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25296
28; 2692.9; 01-JAN-2007 06:58:51; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;25296
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3; 1343.1; 01-JAN-2007 20:01:09; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;25304
4; 1582.7; 01-JAN-2007 20:05:08; Dark ; 33.0; 1; 9Alp CMA ;-1.44; 11000;occ; 66; 0;25304
5; 1770.8; 01-JAN-2007 20:08:16; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;25304
6; 1882.0; 01-JAN-2007 20:10:08; Dark ; 43.5; 30; 46Eps Ori ; 1.69; 30000;occ; 87; 0;25304
7; 2032.5; 01-JAN-2007 20:12:38; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;25304
8; 2270.4; 01-JAN-2007 20:16:36; Bright; 38.0; 176; 23Zet Tau ; 3.02; 22000;occ; 76; 0;25304
9; 2396.7; 01-JAN-2007 20:18:42; Bright; 39.5; 28; 12Bet Tau ; 1.65; 15200;occ; 79; 0;25304
10; 2472.8; 01-JAN-2007 20:19:58; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;25304
11; 2565.1; 01-JAN-2007 20:21:31; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25304
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6; 6.7; 12-JAN-2007 08:49:15; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;25455
7; 110.8; 12-JAN-2007 08:50:59; Dark ; 37.5; 10; Bet Cen ; 0.61; 28000;occ; 75; 0;25455
8; 266.4; 12-JAN-2007 08:53:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25455
9; 512.1; 12-JAN-2007 08:57:41; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;25455
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19; 1750.7; 12-JAN-2007 09:18:19; Dark ; 41.0; 56; 53Kap Ori ; 2.07; 30000;occ; 82; 0;25455

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11; 3924.0; 12-JAN-2007 09:54:32; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;25455
12; 4072.0; 12-JAN-2007 09:57:00; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;25455
13; 4446.7; 12-JAN-2007 10:03:15; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;25455
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25; 6638.6; 12-JAN-2007 10:39:47; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25455
26; 6747.4; 12-JAN-2007 10:41:36; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;25455
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28; 7025.6; 12-JAN-2007 10:46:14; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;25455
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7; 2399.4; 12-JAN-2007 11:09:44; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;25456
8; 2490.2; 12-JAN-2007 11:11:14; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;25456
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10; 3424.6; 12-JAN-2007 11:26:49; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25456
11; 3670.9; 12-JAN-2007 11:30:55; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25456
12; 3924.0; 12-JAN-2007 11:35:08; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;25456
13; 4071.9; 12-JAN-2007 11:37:36; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;25456
14; 4446.8; 12-JAN-2007 11:43:51; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;25456
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25; 6828.1; 12-JAN-2007 15:44:44; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;25458
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13;	1475.9;	15-JAN-2007	22:44:16;	Dark	;	37.0;	179;	240mi2CMA	;	3.03;	24000;occ;	74;	0;	25506
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23;	3425.0;	15-JAN-2007	23:16:45;	Bright;	;	34.5;	49;	1Alp UMi	;	1.99;	6300;occ;	69;	0;	25506
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 9; 3862.1; 21-JAN-2007 16:53:06; Bright; 92.0; 119; 14Eta Dra ; 2.73; 4700;occ; 184; 0;25588
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 11; 4411.1; 21-JAN-2007 17:02:15; Bright; 74.0; 133; 40Zet Her ; 2.81; 6000;occ; 148; 0;25588
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 13; 4411.2; 21-JAN-2007 18:42:52; Bright; 74.0; 133; 40Zet Her ; 2.81; 6000;occ; 148; 0;25589
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 23; 6424.6; 21-JAN-2007 19:16:25; Dark ; 45.0; 12; Alp1Cru ; 0.77; 30000;occ; 90; 0;25589
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 11; 2675.6; 23-JAN-2007 20:31:53; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;25619
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 13; 4085.2; 23-JAN-2007 20:55:23; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;25619
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