

GOMOS Daily Report 14-JUN-2007

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	21JUN2007 07:47:47
Data source version	GOMOS/5.00
Start time of products	14-06-2007 (14JUN2007 00:00:00)
Stop time of products	15-06-2007 (15JUN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	41
Nb of prods with errors	0

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

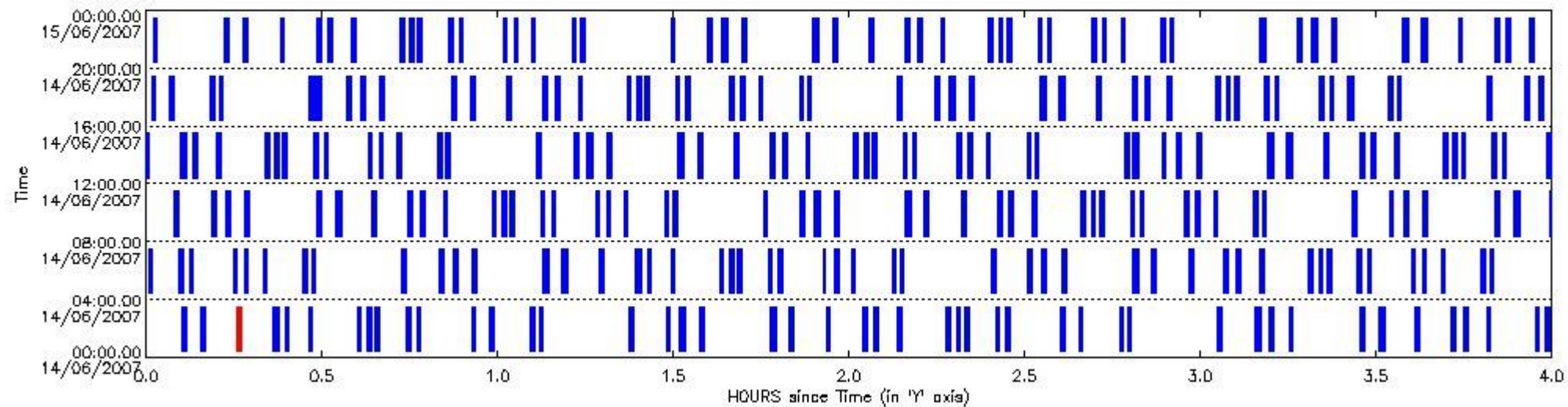
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

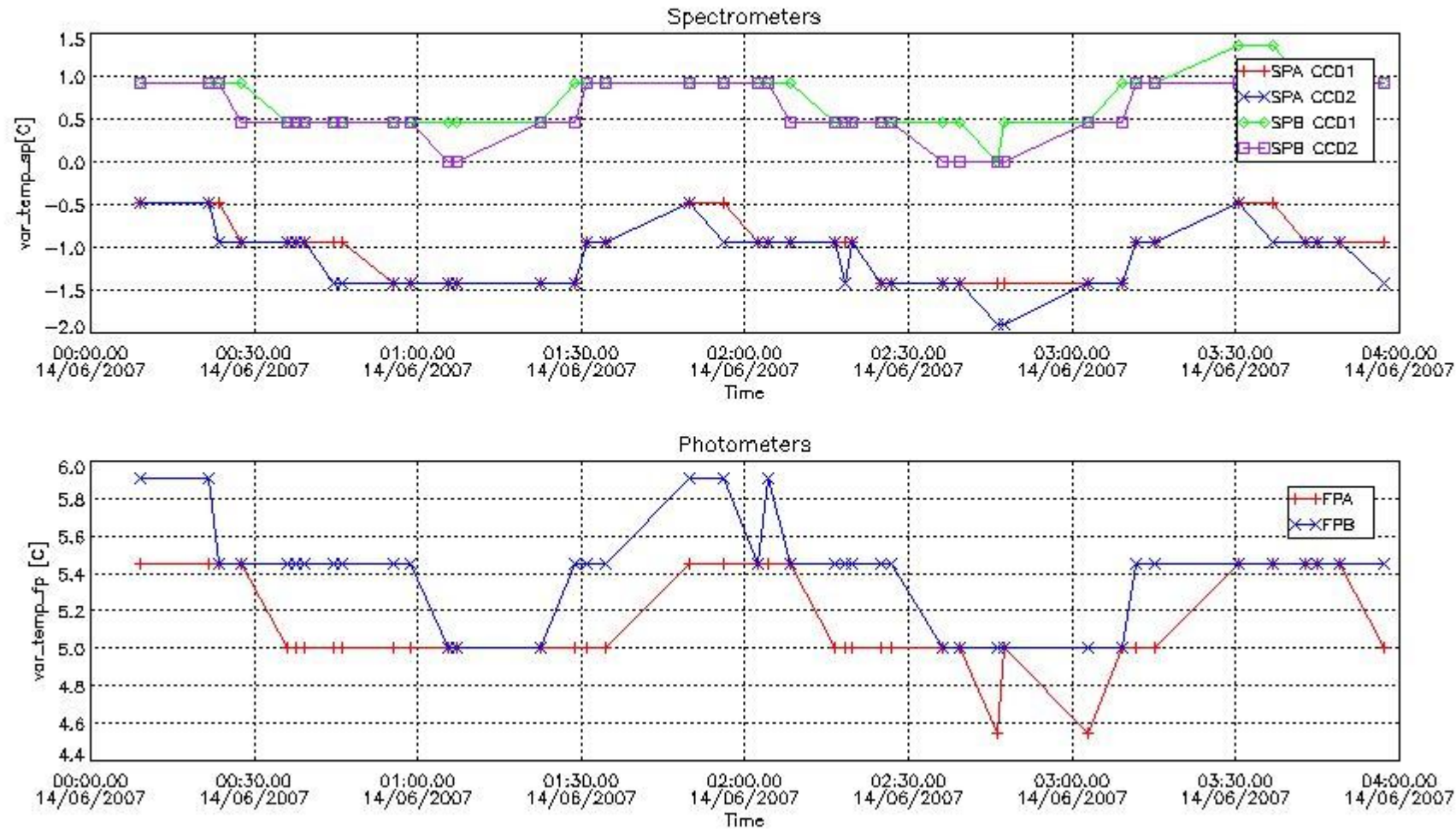
UTC start time	Star name	Star ID	Orbit
14-JUN-2007 00:15:21	AlpPhe	84	27639

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_1PNPDE20070614_000908_000000552059_00030_27639_7658.N1	14-JUN-2007 00:09:08	Dark	54.500	52	16Bet Cet	2.0370	4500.0	109	27639	No
2	GOM_TRA_1PNPDE20070614_002135_000000662059_00031_27640_7659.N1	14-JUN-2007 00:21:35	Dark	65.500	63	Bet Gru	2.1500	2800.0	131	27640	No
3	GOM_TRA_1PNPDE20070614_002338_000000462059_00031_27640_7660.N1	14-JUN-2007 00:23:38	Dark	46.000	31	Alp Gru	1.7340	15200.	92	27640	No
4	GOM_TRA_1PNPDE20070614_002740_000000422059_00031_27640_7661.N1	14-JUN-2007 00:27:40	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	27640	No
5	GOM_TRA_1PNPDE20070614_003559_000000442059_00031_27640_7662.N1	14-JUN-2007 00:35:59	Twilight_stray	44.000	40	The Sco	1.8590	7100.0	88	27640	No
6	GOM_TRA_1PNPDE20070614_003743_000000432059_00031_27640_7663.N1	14-JUN-2007 00:37:43	Twilight_stray	43.000	25	35Lam Sco	1.6200	28000.	86	27640	No
7	GOM_TRA_1PNPDE20070614_003905_000000482059_00031_27640_7664.N1	14-JUN-2007 00:39:05	Twilight_stray	47.500	167	10Gam2Sgr	2.9840	4500.0	95	27640	No
8	GOM_TRA_1PNPDE20070614_004424_000000392059_00031_27640_7665.N1	14-JUN-2007 00:44:24	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	27640	No
9	GOM_TRA_1PNPDE20070614_004609_000000382059_00031_27640_7666.N1	14-JUN-2007 00:46:09	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	27640	No
10	GOM_TRA_1PNPDE20070614_005534_000000382059_00031_27640_7667.N1	14-JUN-2007 00:55:34	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	27640	No

11	GOM_TRA_1PNPDE20070614_005839_000000382059_00031_27640_7668.N1	14-JUN-2007 00:58:39	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	27640	No
12	GOM_TRA_1PNPDE20070614_010535_000000382059_00031_27640_7669.N1	14-JUN-2007 01:05:35	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	27640	No
13	GOM_TRA_1PNPDE20070614_010700_000000402059_00031_27640_7670.N1	14-JUN-2007 01:07:00	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	27640	No
14	GOM_TRA_1PNPDE20070614_012223_000000582059_00031_27640_7671.N1	14-JUN-2007 01:22:23	Bright	57.500	74	11Bet Cas	2.2680	6600.0	115	27640	No
15	GOM_TRA_1PNPDE20070614_012843_000000382059_00031_27640_7672.N1	14-JUN-2007 01:28:43	Bright	38.000	73	57Gam1And	2.2600	13100.	76	27640	No
16	GOM_TRA_1PNPDE20070614_013103_000000552059_00031_27640_7673.N1	14-JUN-2007 01:31:03	Twilight	54.500	53	43Bet And	2.0480	3300.0	109	27640	No
17	GOM_TRA_1PNPDE20070614_013428_000000452059_00031_27640_7674.N1	14-JUN-2007 01:34:28	Twilight	45.000	50	13Alp Ari	2.0070	4250.0	90	27640	No
18	GOM_TRA_1PNPDE20070614_014945_000000552059_00031_27640_7835.N1	14-JUN-2007 01:49:45	Dark	54.500	52	16Bet Cet	2.0370	4500.0	109	27640	No
19	GOM_TRA_1PNPDE20070614_015605_000000422059_00031_27640_7836.N1	14-JUN-2007 01:56:05	Dark	41.500	84	Alp Phe	2.3970	4500.0	83	27640	No
20	GOM_TRA_1PNPDE20070614_020212_000000532059_00032_27641_7837.N1	14-JUN-2007 02:02:12	Dark	53.000	63	Bet Gru	2.1500	2800.0	106	27641	No
21	GOM_TRA_1PNPDE20070614_020415_000000472059_00032_27641_7838.N1	14-JUN-2007 02:04:15	Dark	47.000	31	Alp Gru	1.7340	15200.	94	27641	No
22	GOM_TRA_1PNPDE20070614_020817_000000442059_00032_27641_7839.N1	14-JUN-2007 02:08:17	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	27641	No
23	GOM_TRA_1PNPDE20070614_021635_000000432059_00032_27641_7840.N1	14-JUN-2007 02:16:35	Twilight	42.500	40	The Sco	1.8590	7100.0	85	27641	No
24	GOM_TRA_1PNPDE20070614_021819_000000432059_00032_27641_7841.N1	14-JUN-2007 02:18:19	Twilight	43.000	25	35Lam Sco	1.6200	28000.	86	27641	No
25	GOM_TRA_1PNPDE20070614_021942_000000482059_00032_27641_7842.N1	14-JUN-2007 02:19:42	Twilight	48.000	167	10Gam2Sgr	2.9840	4500.0	96	27641	No
26	GOM_TRA_1PNPDE20070614_022500_000000402059_00032_27641_7843.N1	14-JUN-2007 02:25:00	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	27641	No
27	GOM_TRA_1PNPDE20070614_022645_000000382059_00032_27641_7844.N1	14-JUN-2007 02:26:45	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	27641	No
28	GOM_TRA_1PNPDE20070614_023610_000000392059_00032_27641_7845.N1	14-JUN-2007 02:36:10	Bright	38.500	127	27Bet Her	2.7810	4700.0	77	27641	No
29	GOM_TRA_1PNPDE20070614_023915_000000382059_00032_27641_7846.N1	14-JUN-2007 02:39:15	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	27641	No
30	GOM_TRA_1PNPDE20070614_024611_000000392059_00032_27641_7847.N1	14-JUN-2007 02:46:11	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	27641	No
31	GOM_TRA_1PNPDE20070614_024736_000000382059_00032_27641_7848.N1	14-JUN-2007 02:47:36	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	27641	No
32	GOM_TRA_1PNPDE20070614_030258_000000422059_00032_27641_8468.N1	14-JUN-2007 03:02:58	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	27641	No
33	GOM_TRA_1PNPDE20070614_030919_000000562059_00032_27641_8469.N1	14-JUN-2007 03:09:19	Bright	56.000	73	57Gam1And	2.2600	13100.	112	27641	No
34	GOM_TRA_1PNPDE20070614_031139_000000562059_00032_27641_7855.N1	14-JUN-2007 03:11:39	Twilight	55.500	53	43Bet And	2.0480	3300.0	111	27641	No
35	GOM_TRA_1PNPDE20070614_031504_000000472059_00032_27641_8471.N1	14-JUN-2007 03:15:04	Twilight	47.000	50	13Alp Ari	2.0070	4250.0	94	27641	No
36	GOM_TRA_1PNPDE20070614_033022_000000622059_00032_27641_8472.N1	14-JUN-2007 03:30:22	Dark	61.500	52	16Bet Cet	2.0370	4500.0	123	27641	No
37	GOM_TRA_1PNPDE20070614_033642_000000462059_00032_27641_8473.N1	14-JUN-2007 03:36:42	Dark	45.500	84	Alp Phe	2.3970	4500.0	91	27641	No
38	GOM_TRA_1PNPDE20070614_034249_000000532059_00033_27642_7859.N1	14-JUN-2007 03:42:49	Dark	52.500	63	Bet Gru	2.1500	2800.0	105	27642	No
39	GOM_TRA_1PNPDE20070614_034452_000000492059_00033_27642_8475.N1	14-JUN-2007 03:44:52	Dark	48.500	31	Alp Gru	1.7340	15200.	97	27642	No
40	GOM_TRA_1PNPDE20070614_034853_000000412059_00033_27642_8476.N1	14-JUN-2007 03:48:53	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	27642	No
41	GOM_TRA_1PNPDE20070614_035712_000000432059_00033_27642_7862.N1	14-JUN-2007 03:57:12	Twilight	42.500	40	The Sco	1.8590	7100.0	85	27642	No

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



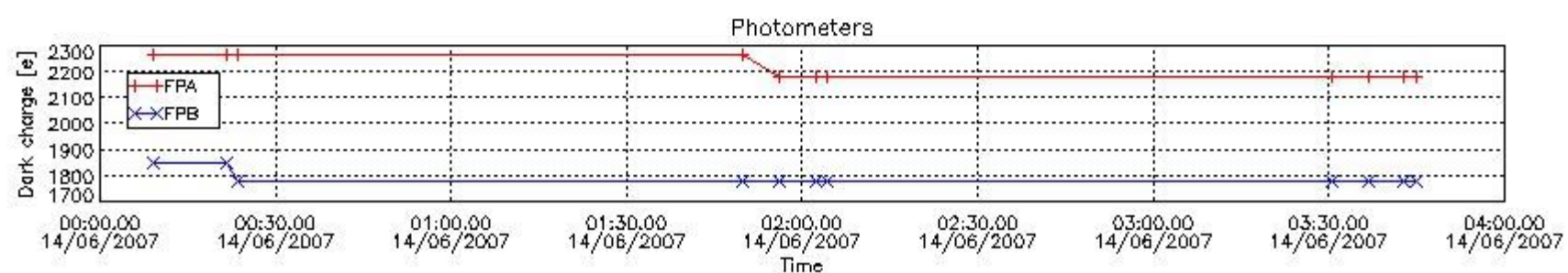
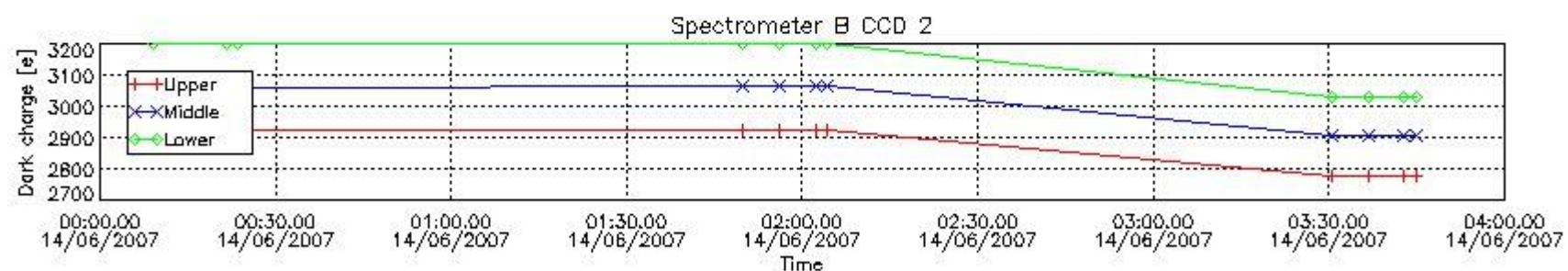
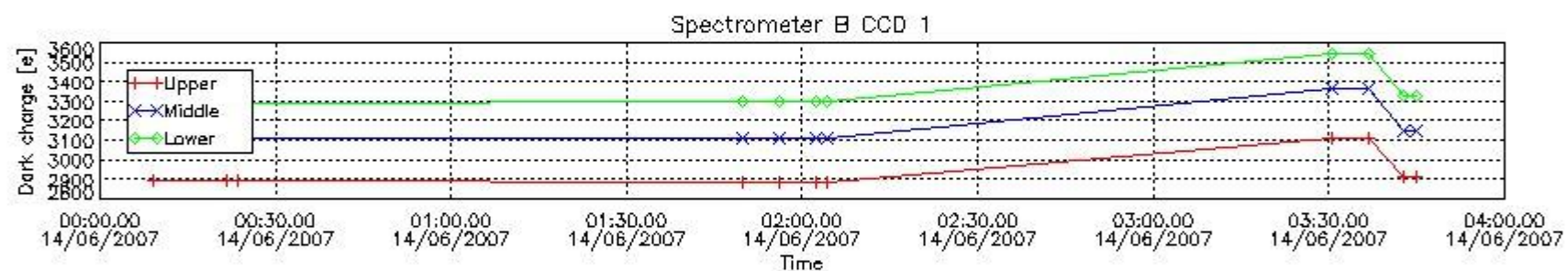
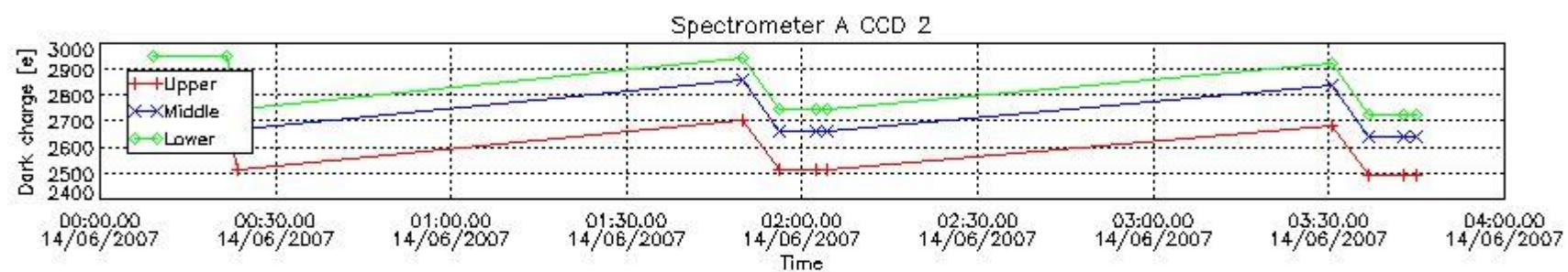
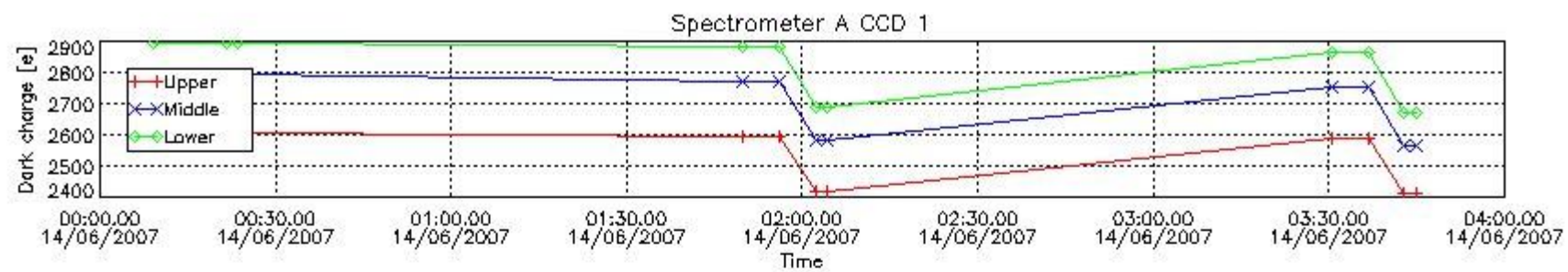
4. Overview of dark signal processing per product

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



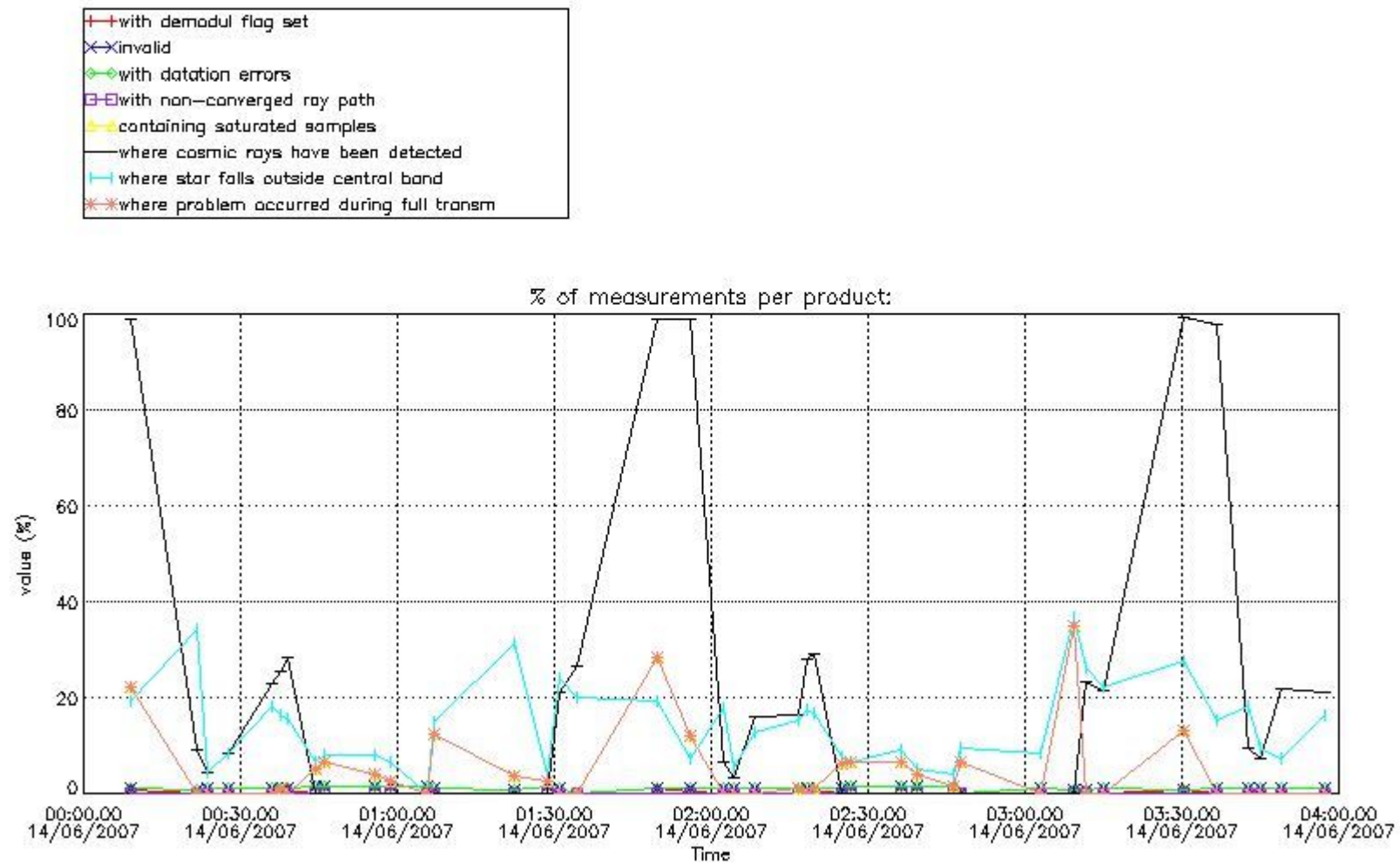
5. Demodulation flag and quality information monitoring

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.

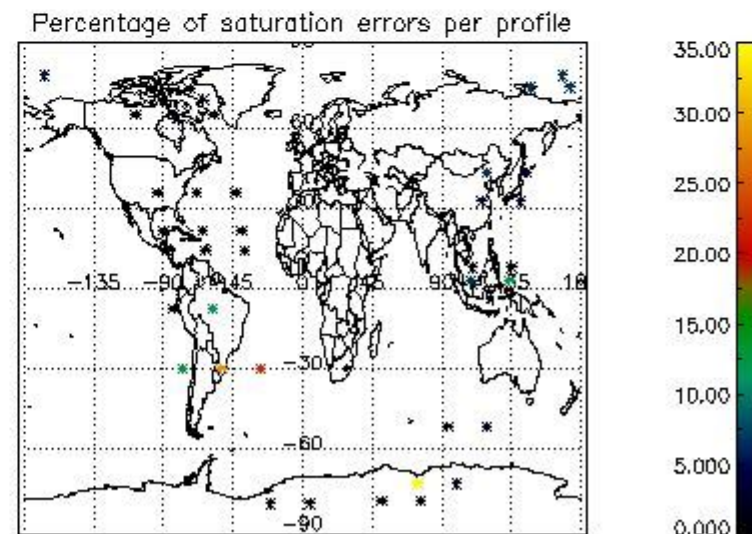
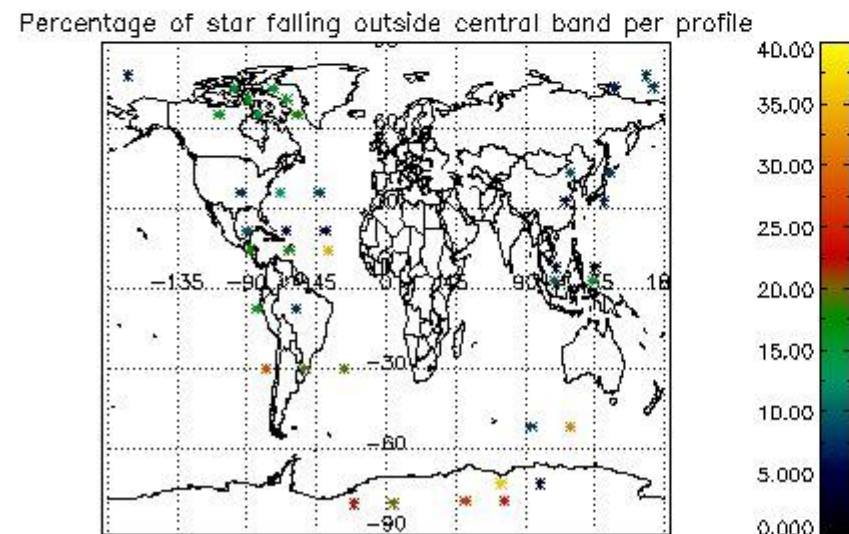
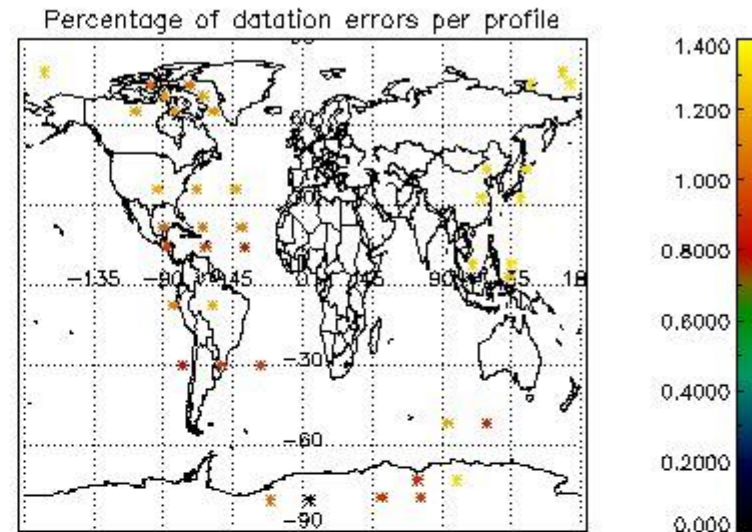
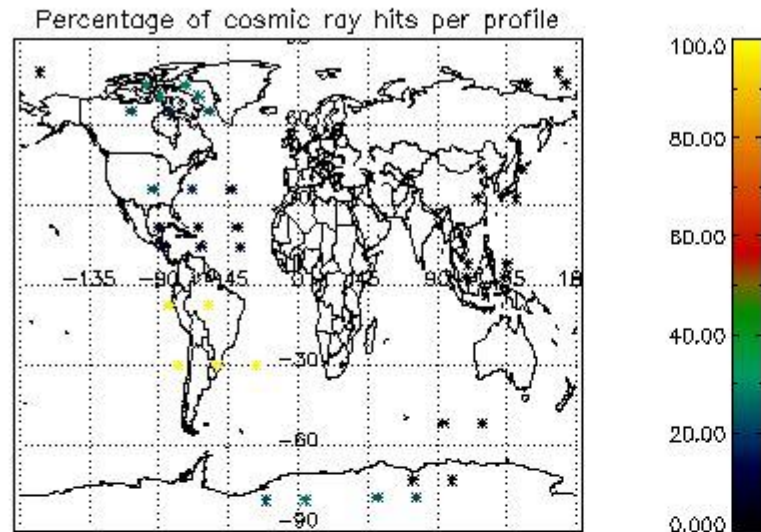
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.8293 %
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)



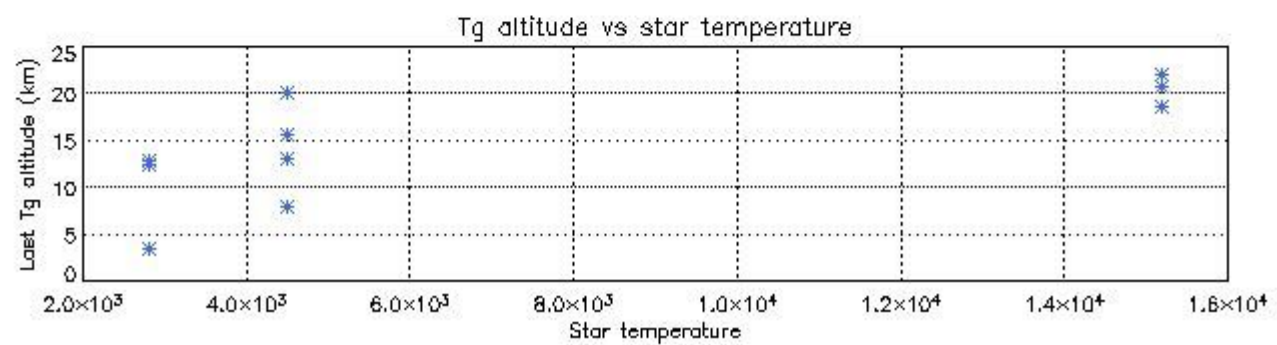
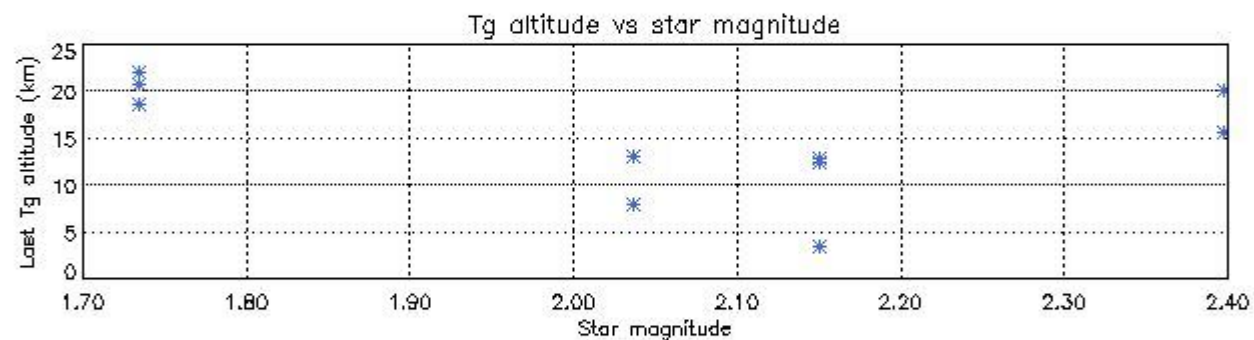
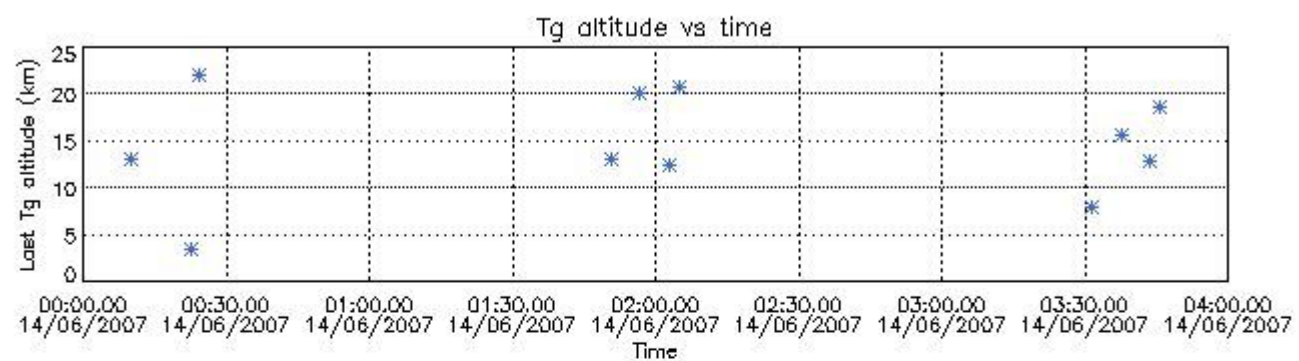
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.493	18.971	11.397
St. deviation:	5.6723	5.6910	0.66465
Maximum:	21.982	26.379	11.867
Minimum:	3.4060	3.7154	10.927
Number of data:	11.000	16.000	2.0000

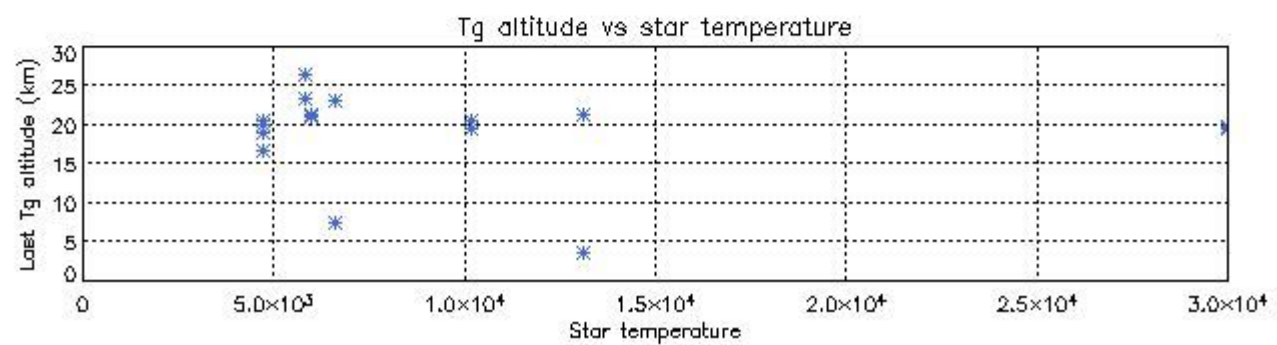
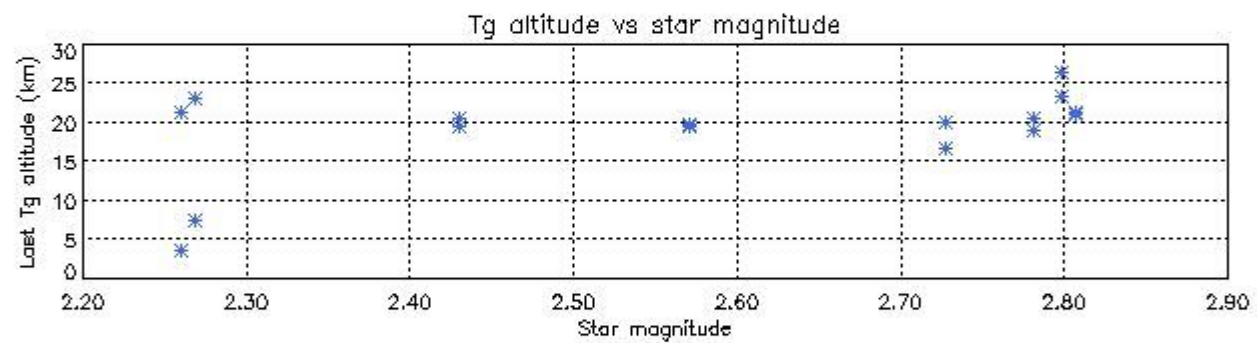
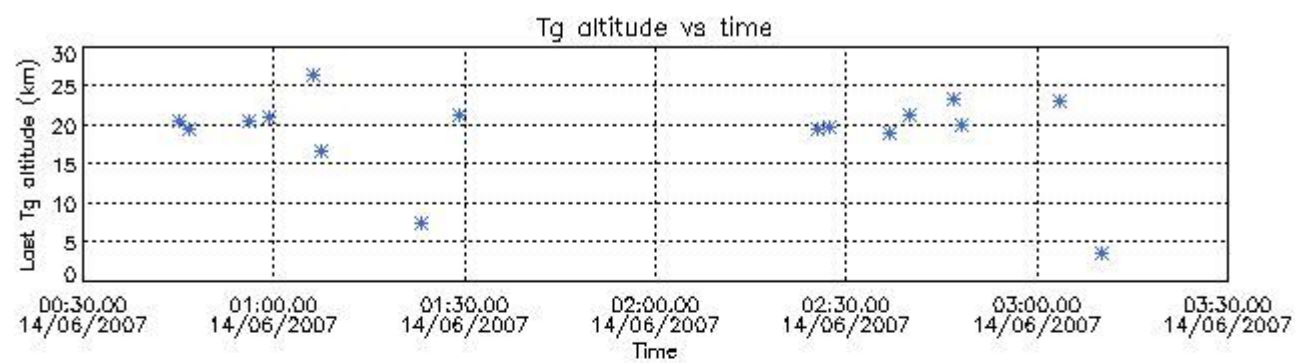
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



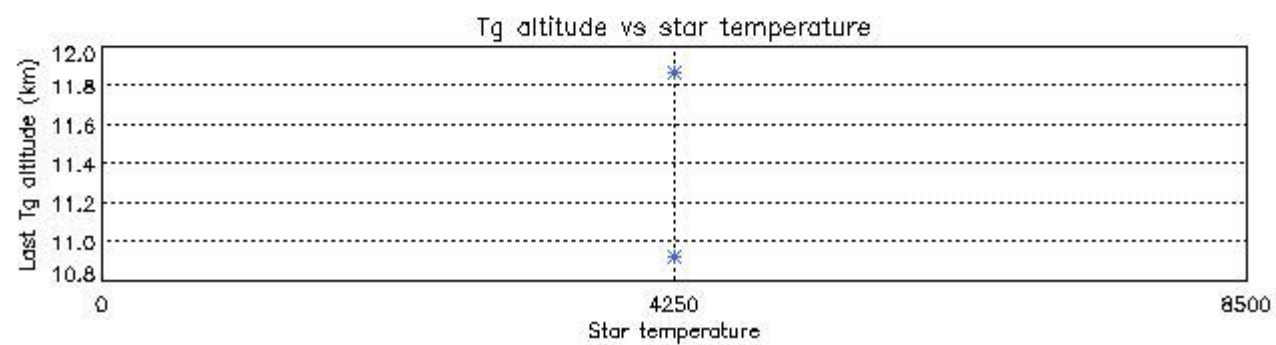
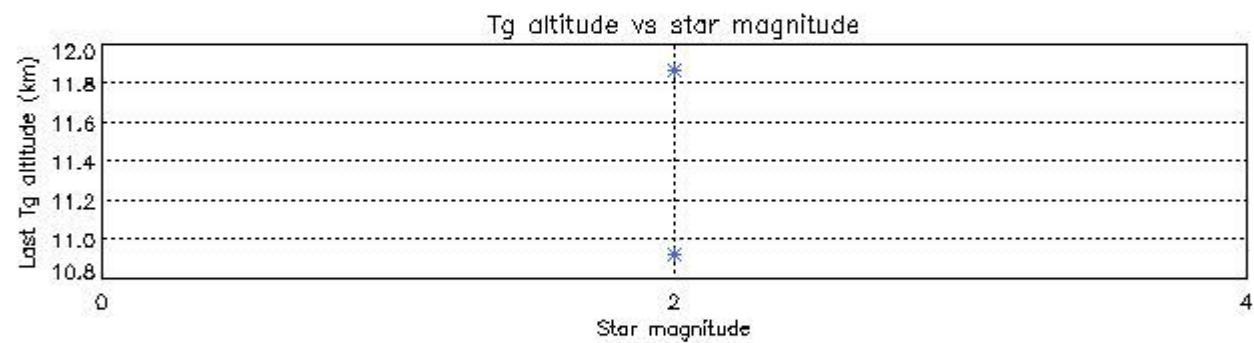
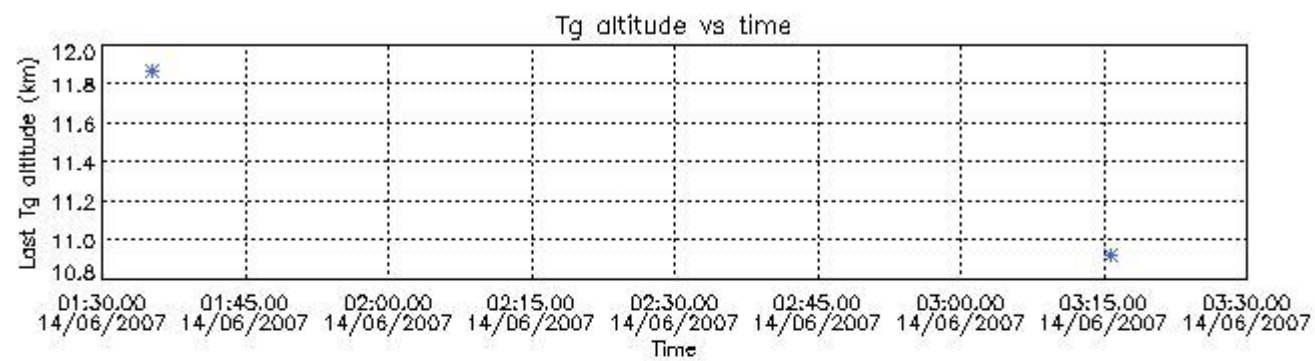
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

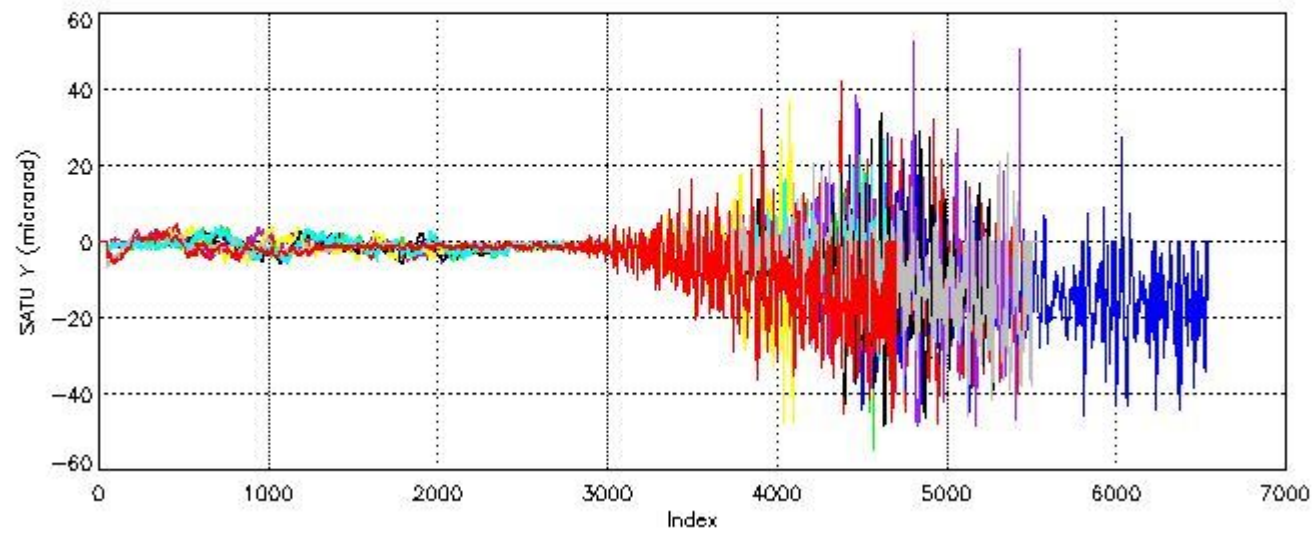
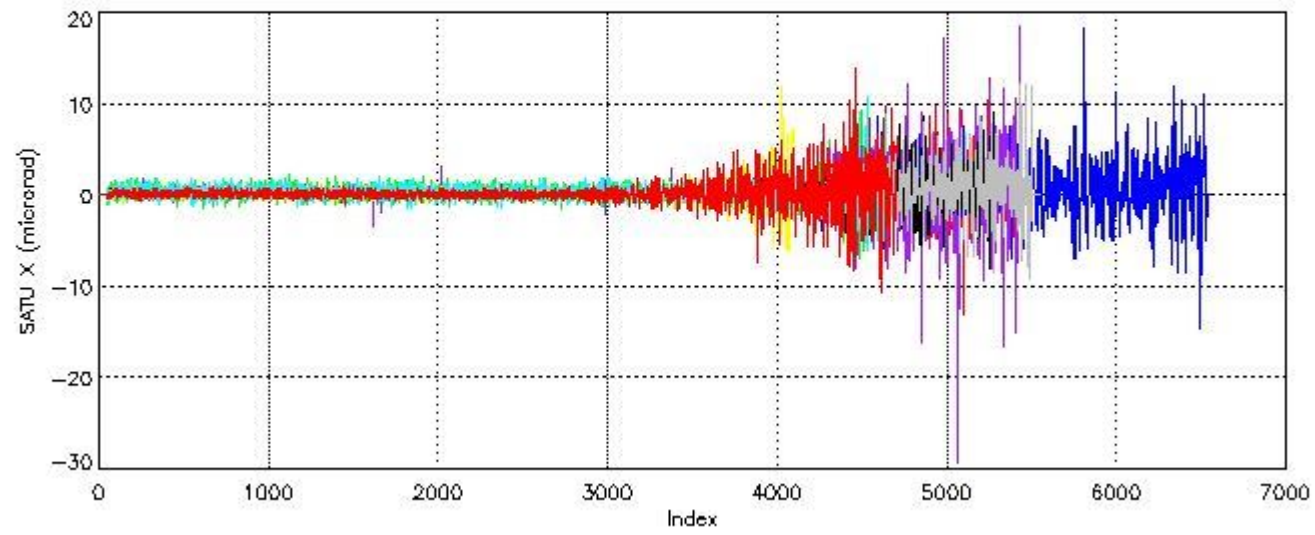


7. Star Acquisition and Tracking Unit (SATU)

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:	0.28841	-0.78248	0.17913	-0.91052
St. deviation:	0.34580	1.8692	0.77547	2.2962
Maximum:	10.900	9.7000	4.3000	6.8000
Minimum:	-4.0000	-6.5000	-3.3000	-8.3000

Number of data:	12700.	12700.	14250.	14250.
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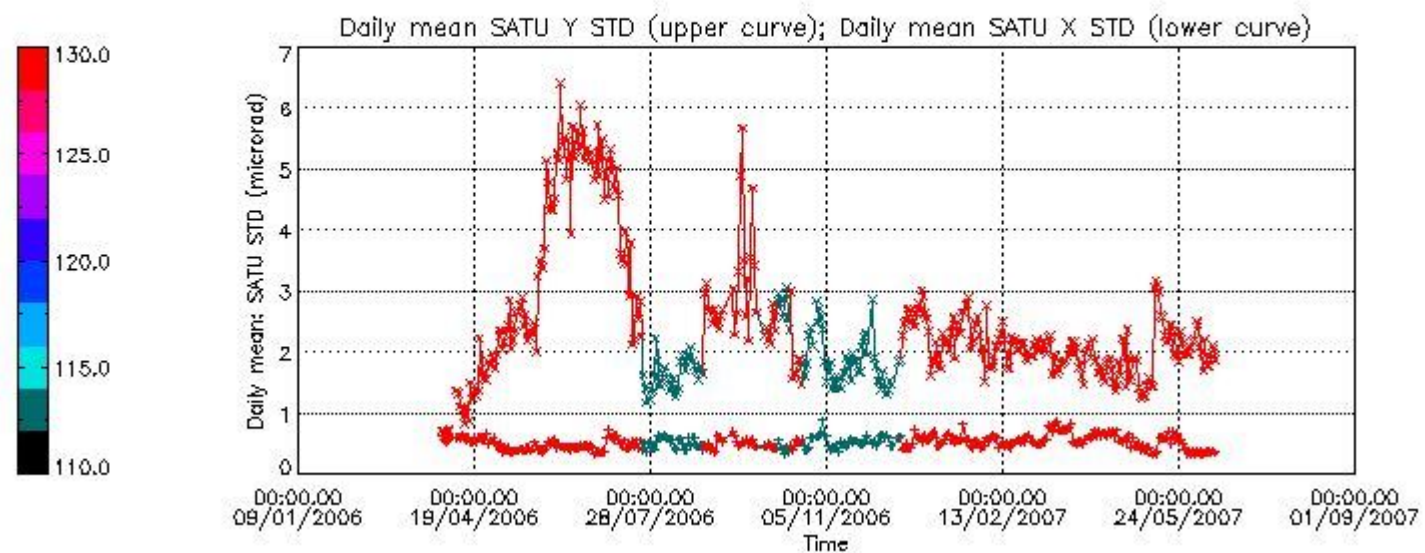
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

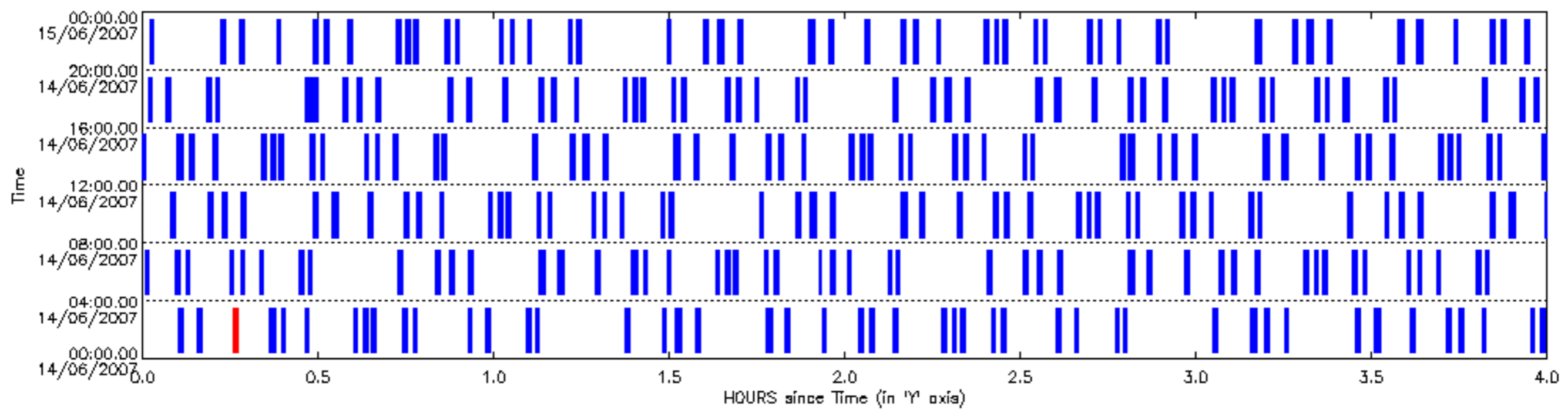
Lower curve: STD of SATU X axis

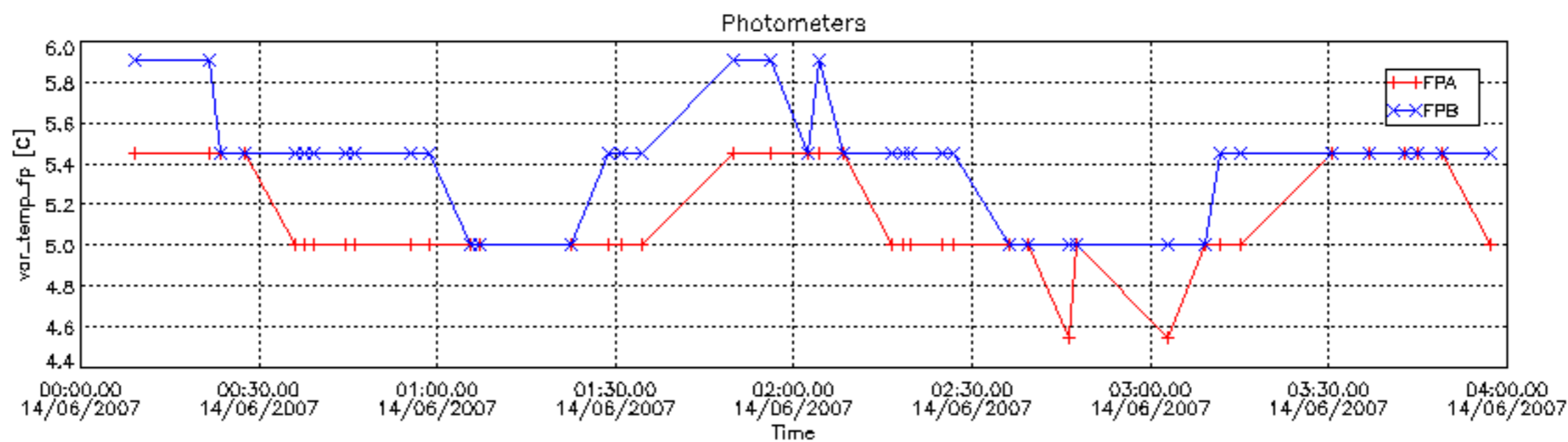
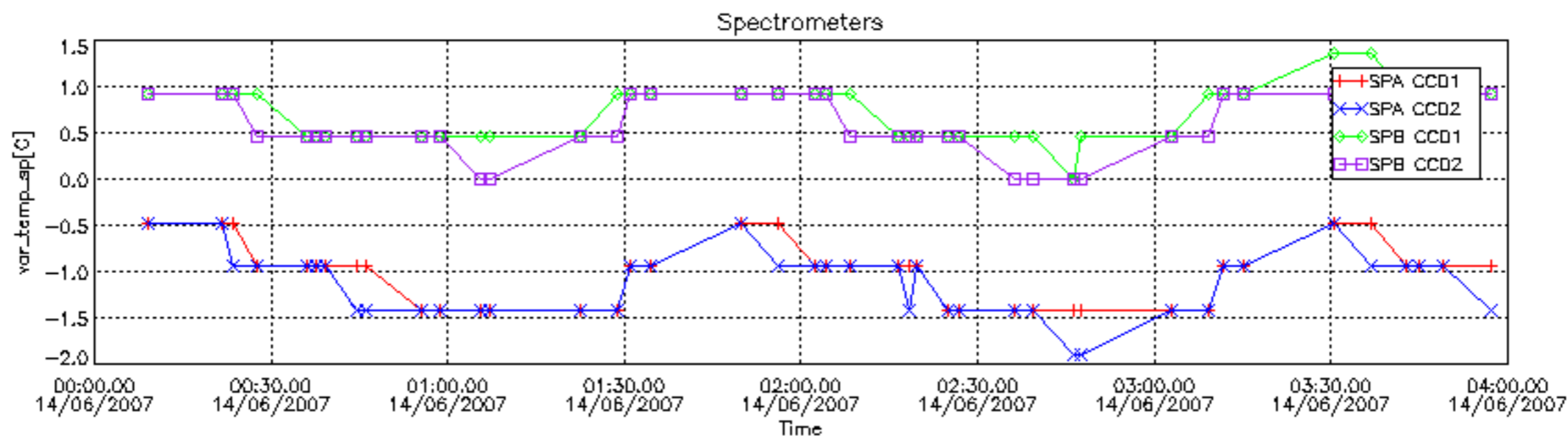


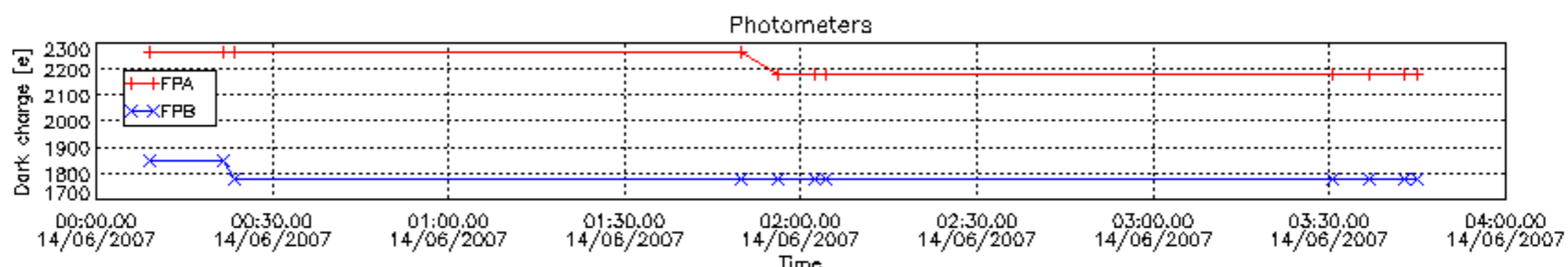
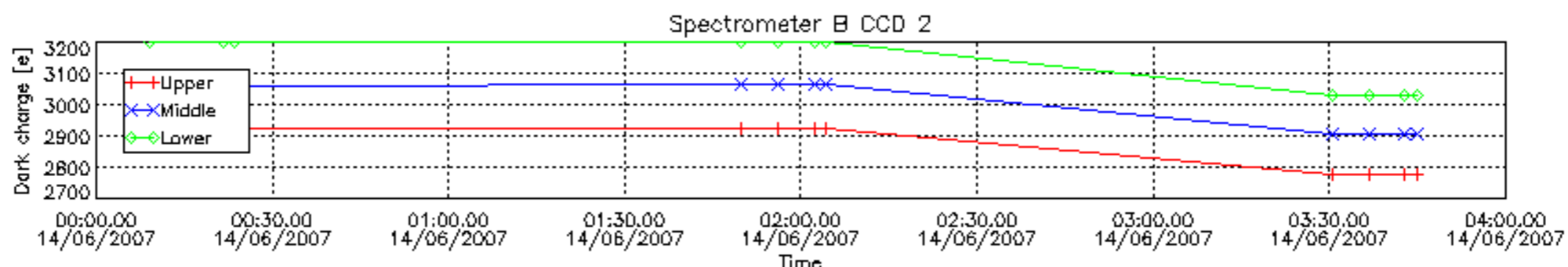
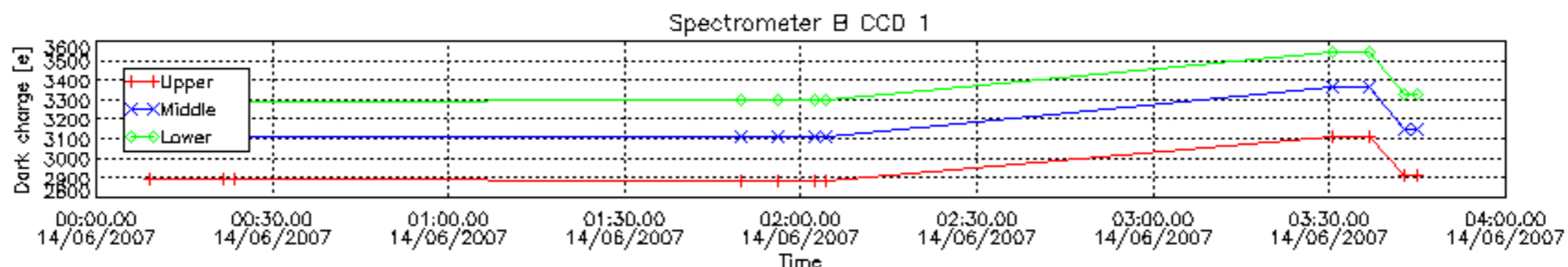
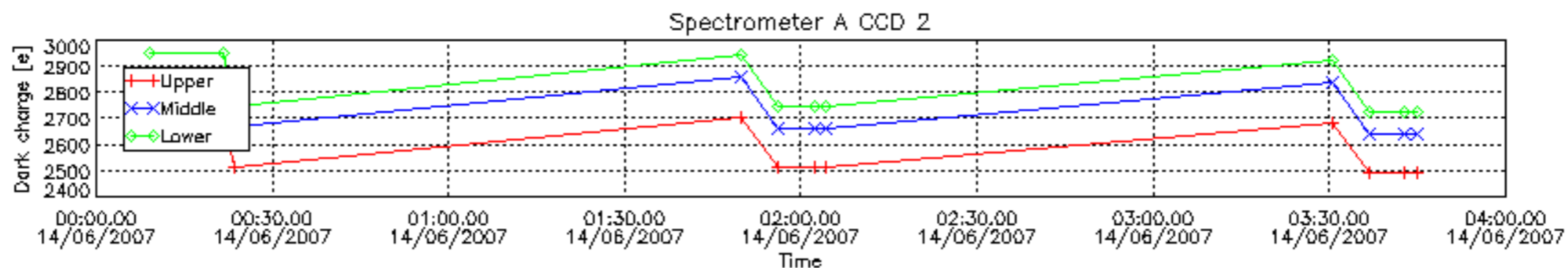
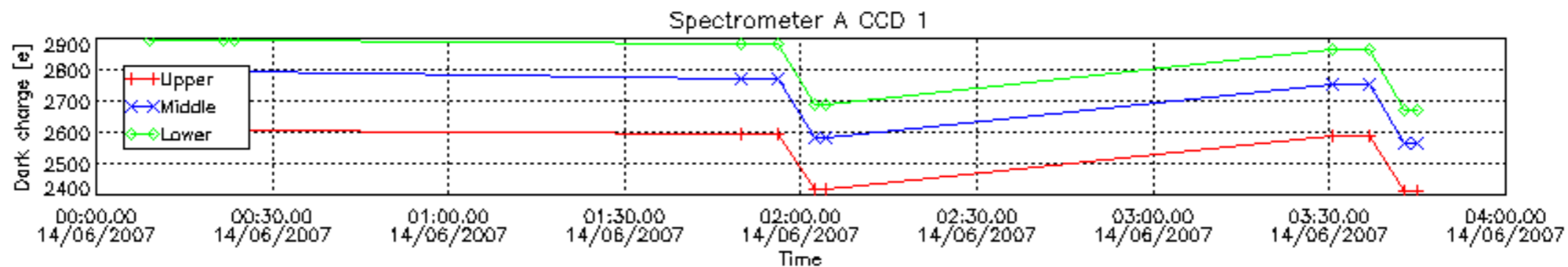
8. Auxiliary Data Files used for the production reported in section 2.4

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.

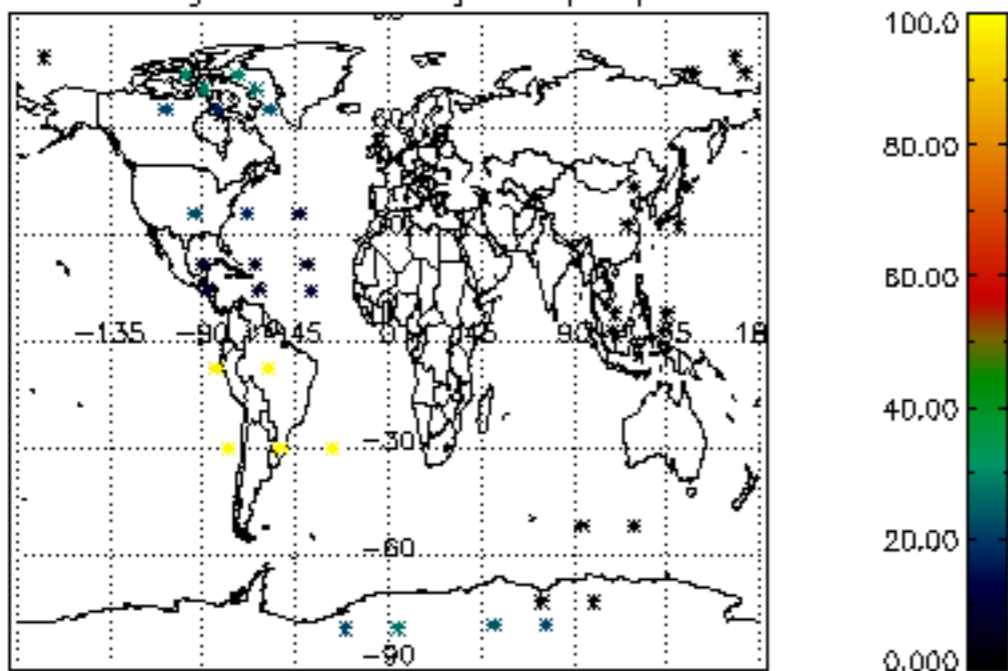
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	14-JUN-2007 00:09:08
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070605_142211_20070604_000000_20100101_000000	1	14-JUN-2007 00:09:08
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-JUN-2007 00:09:08
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-JUN-2007 00:09:08
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-JUN-2007 00:09:08
ECMWF_FILE	AUX_ECF_AXNECM20070613_061111_20070613_210000_20070614_090000	1	14-JUN-2007 00:09:08
ECMWF_FILE	AUX_ECF_AXNECM20070613_181238_20070614_030000_20070614_150000	32	14-JUN-2007 03:02:58
OPTIONAL_ECMWF_FILE	MISSING	1	14-JUN-2007 00:09:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070614_000222_000054192059_00030_27639_3571.N1	1	14-JUN-2007 00:09:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070614_013800_000044632059_00031_27640_3572.N1	18	14-JUN-2007 01:49:45



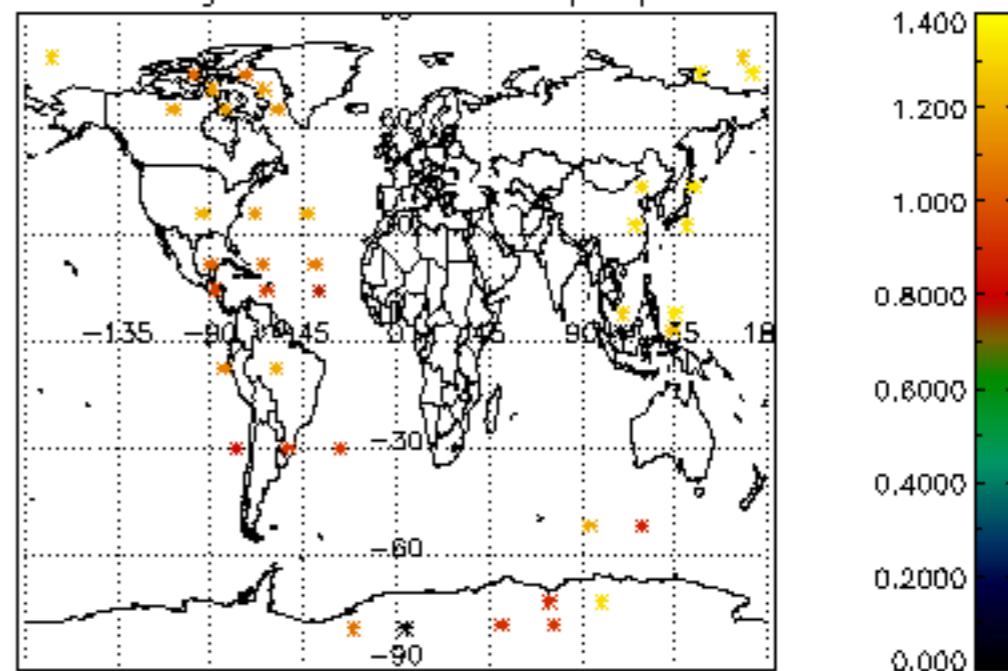




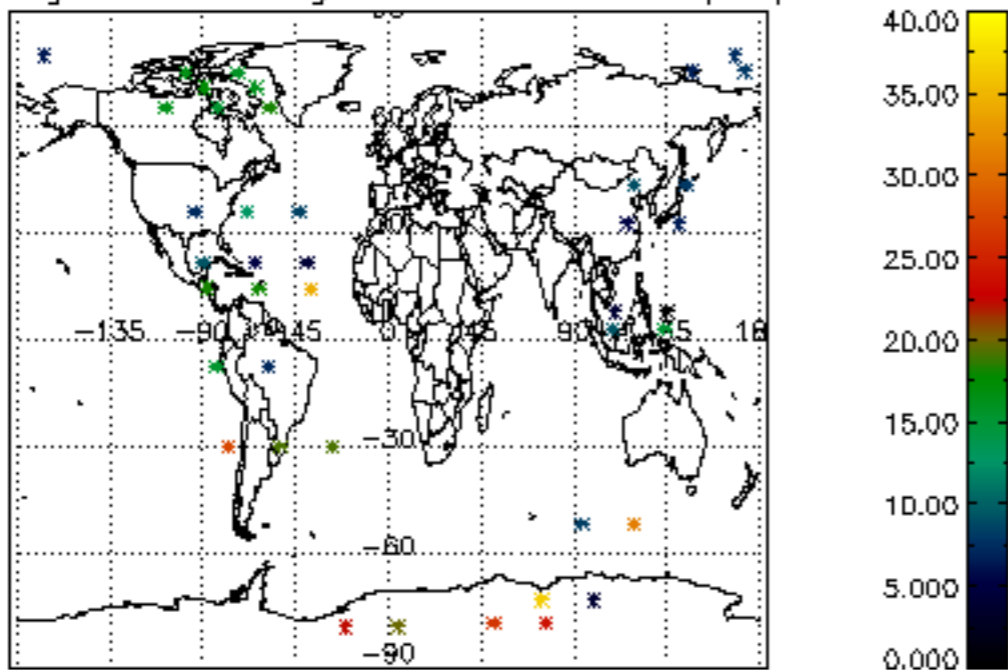
Percentage of cosmic ray hits per profile



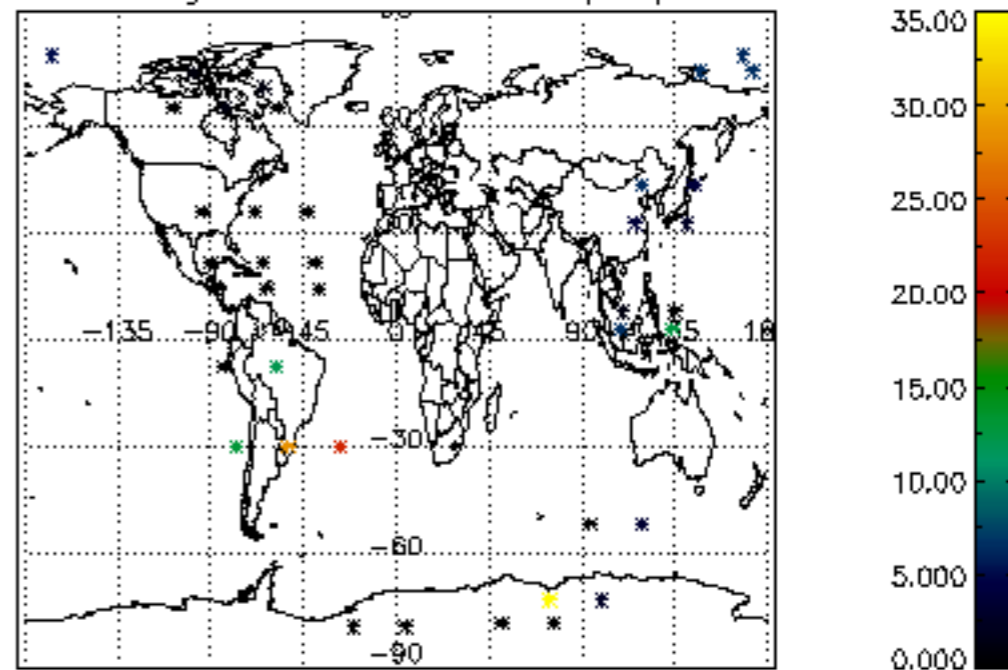
Percentage of datation errors per profile



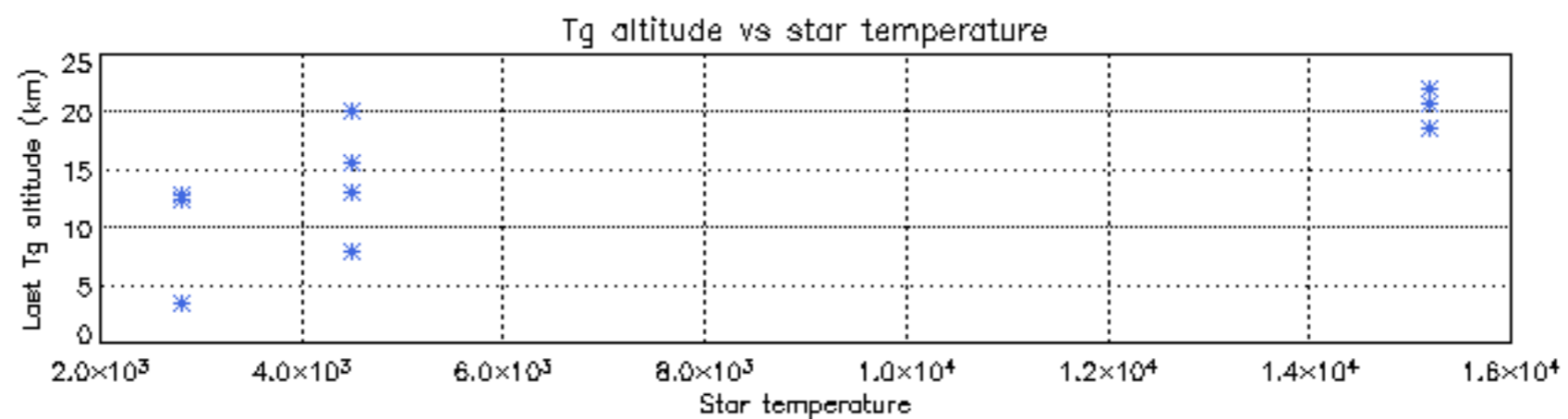
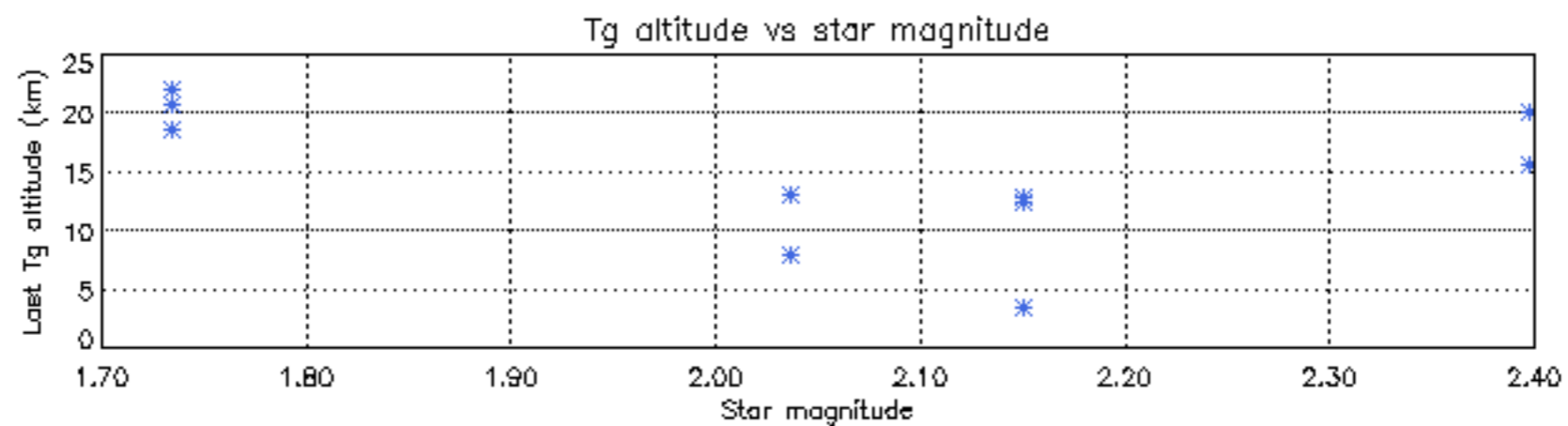
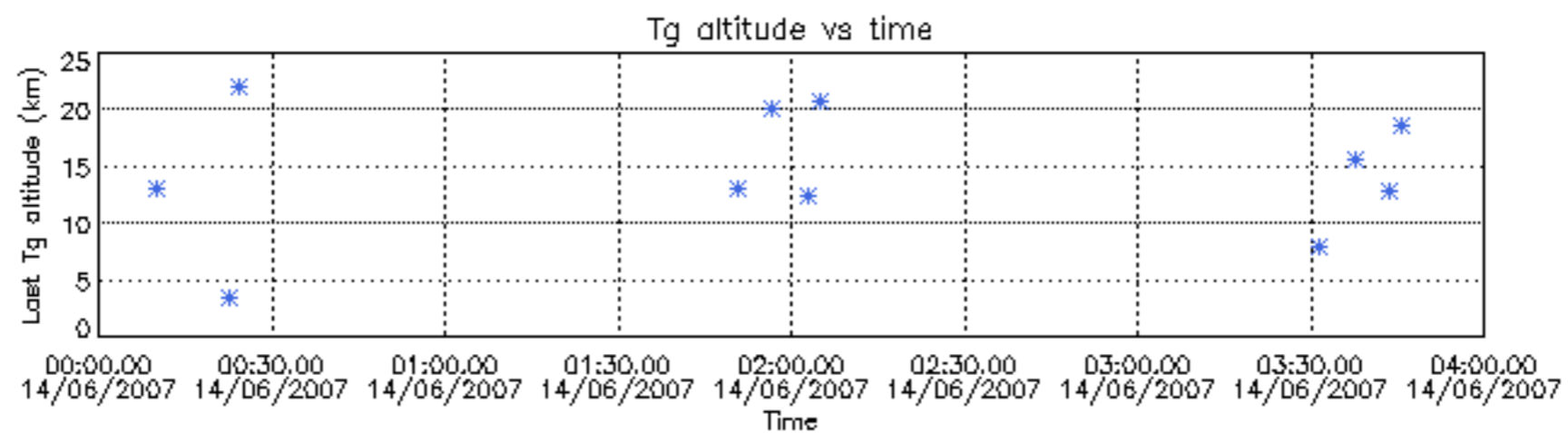
Percentage of star falling outside central band per profile



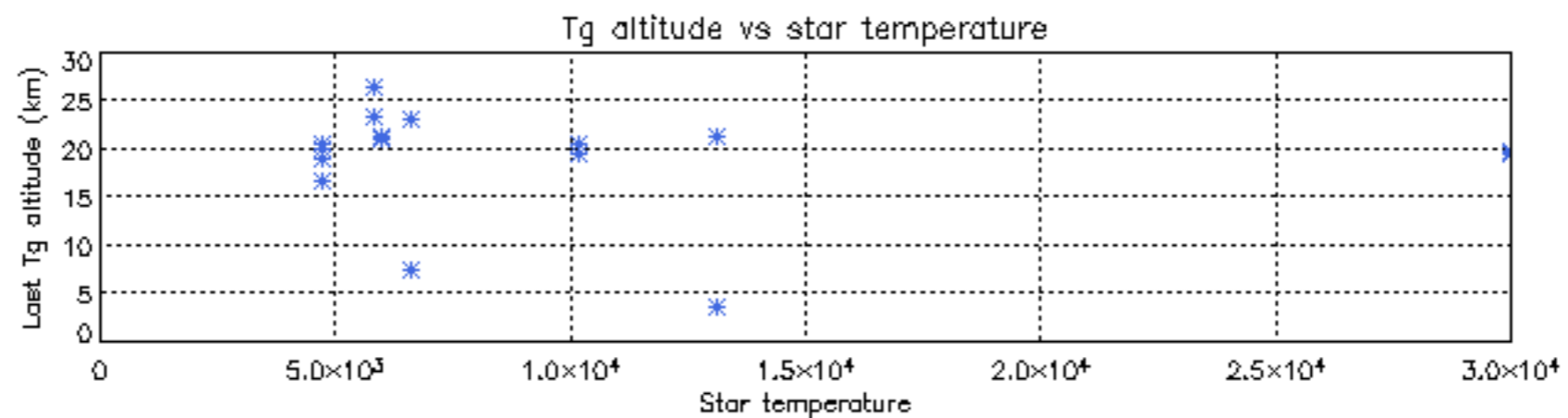
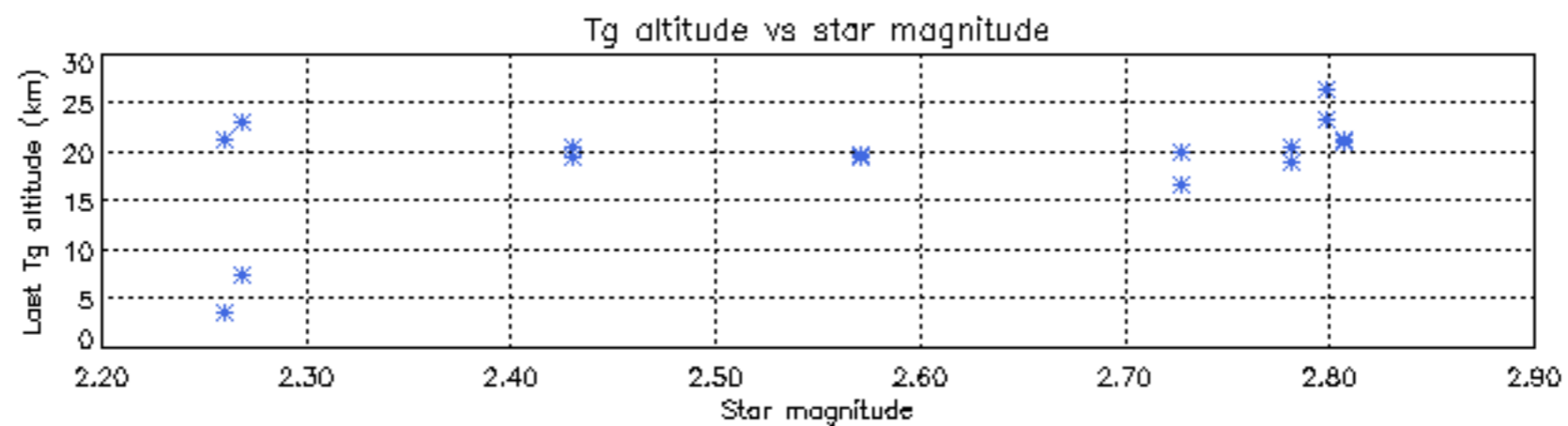
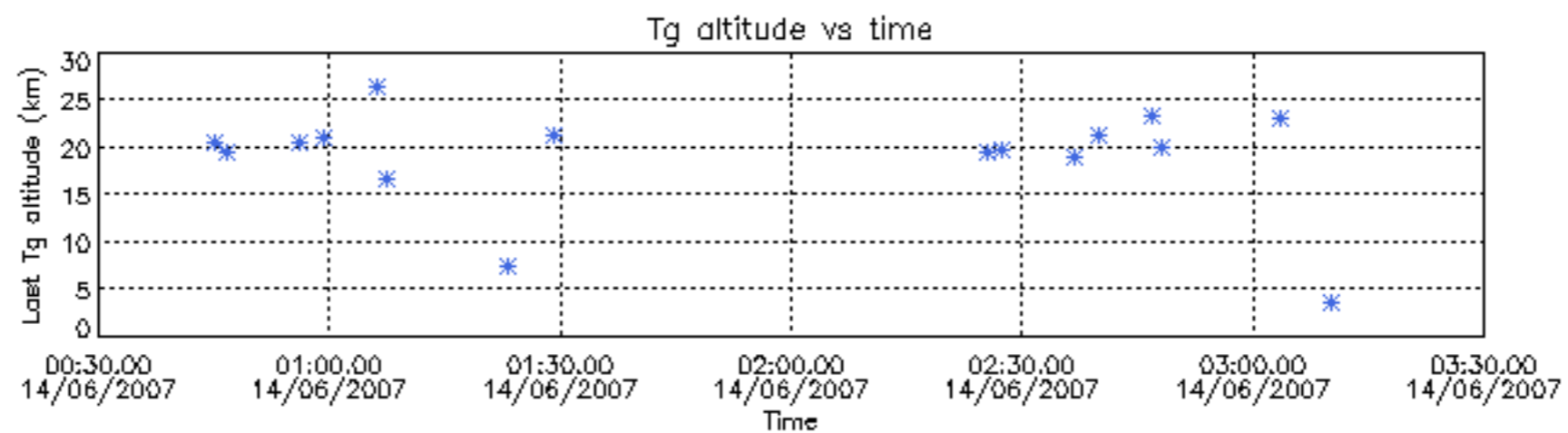
Percentage of saturation errors per profile



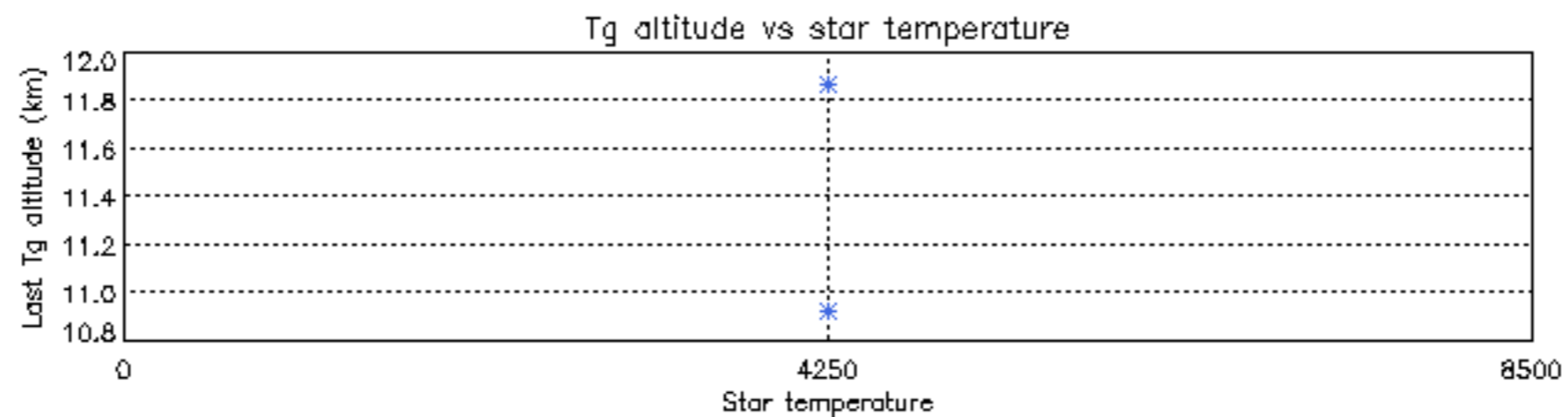
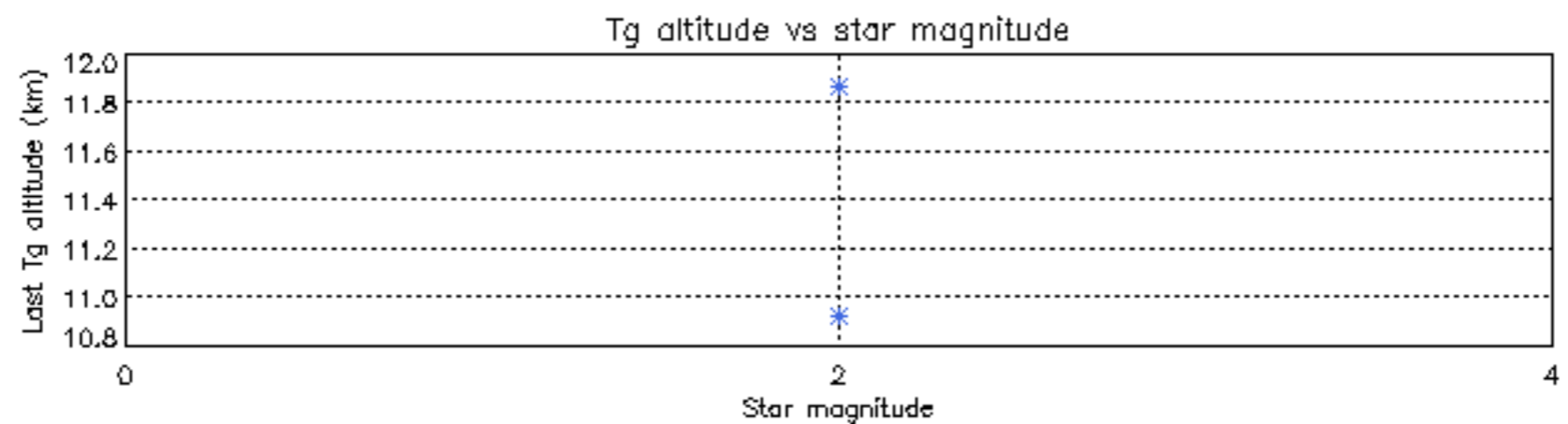
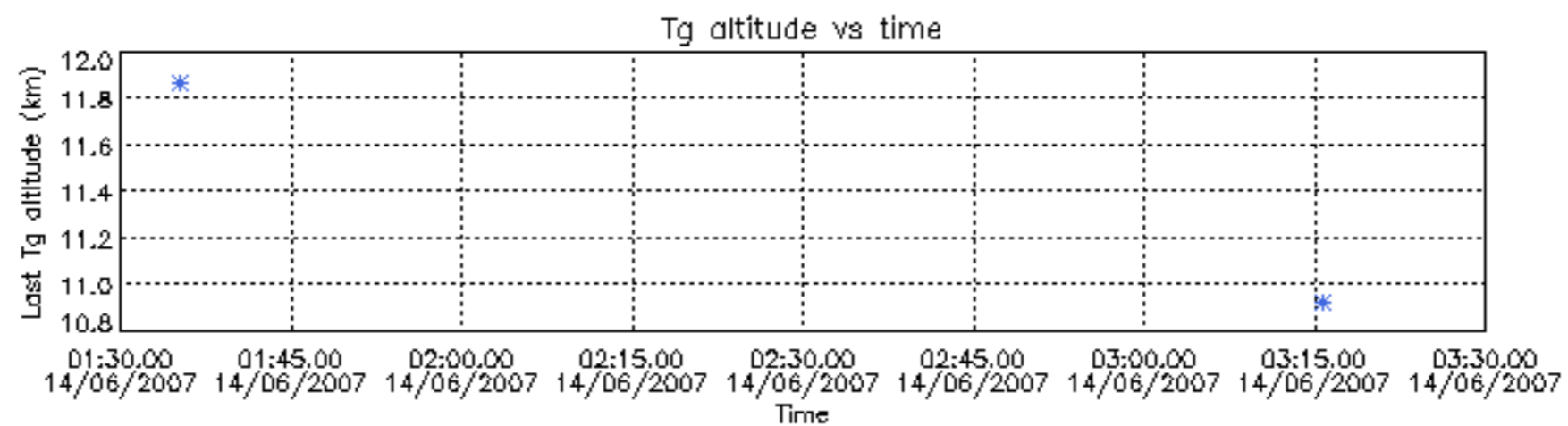
Tangent altitude at which the star is lost

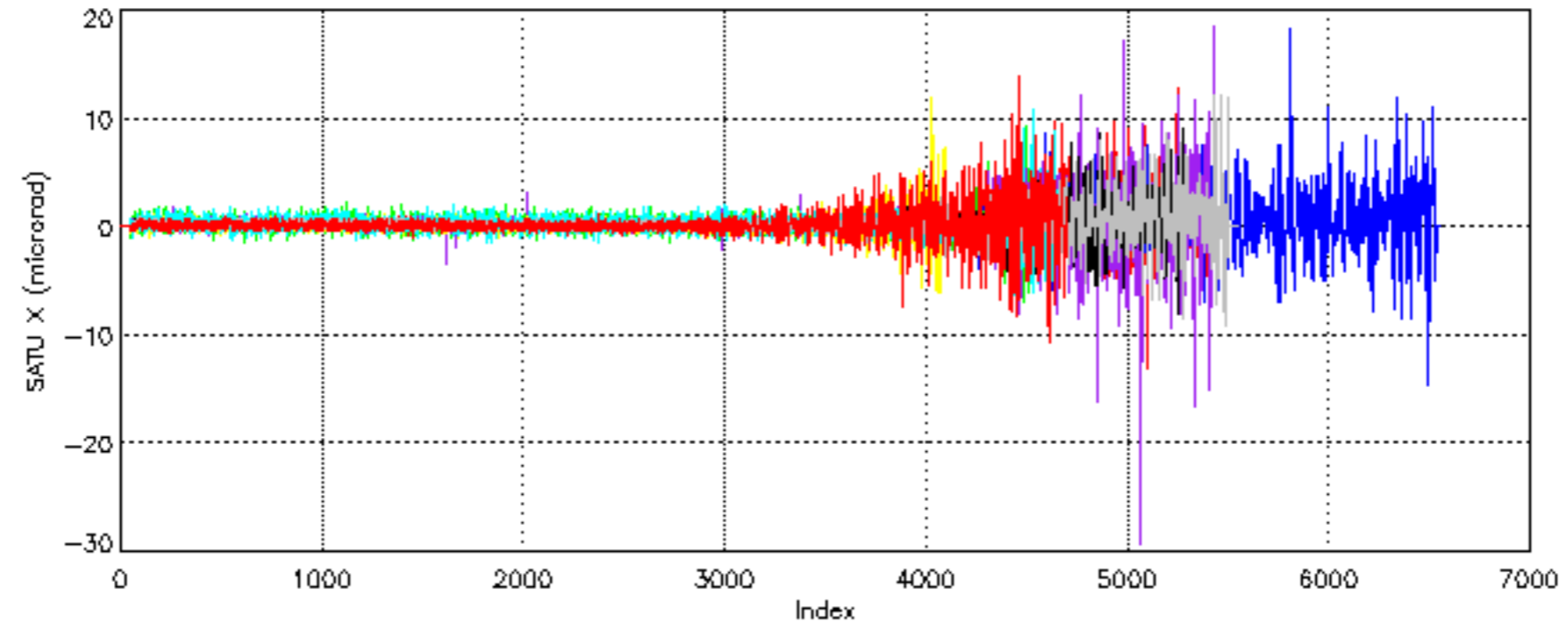


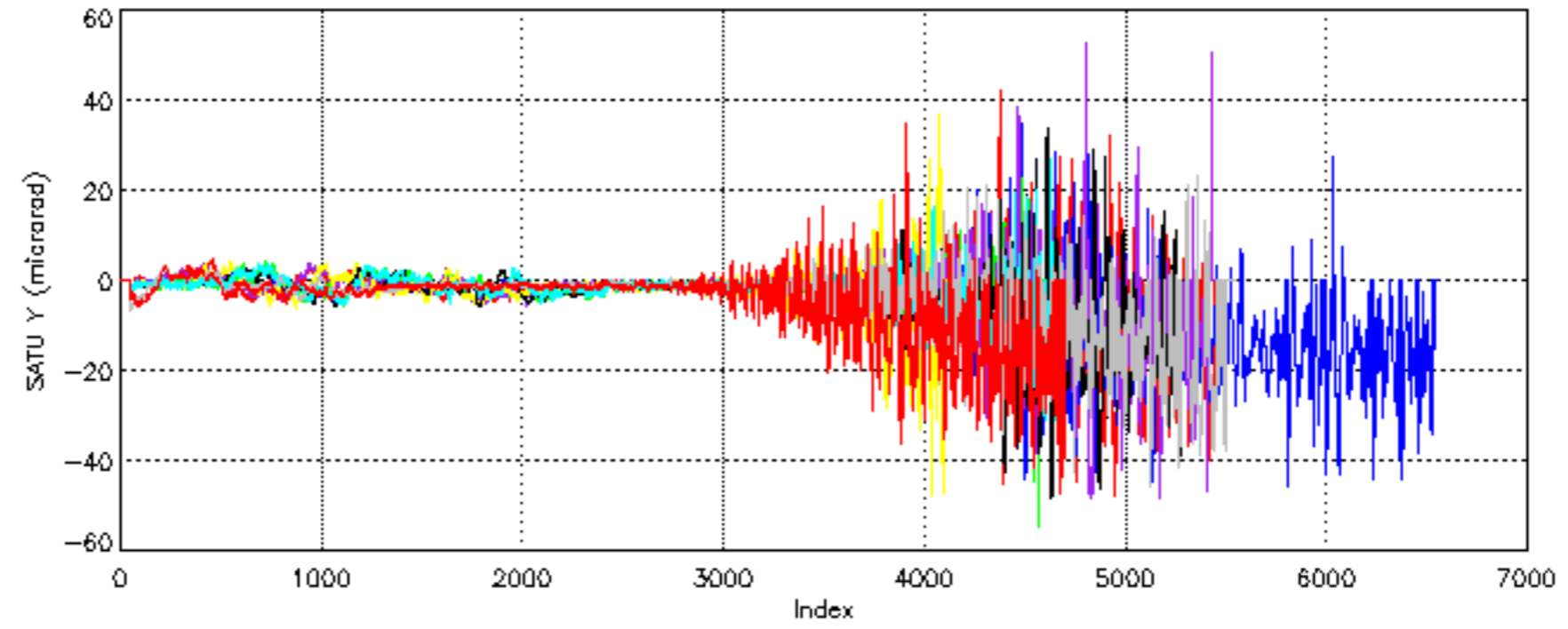
Tangent altitude at which the star is lost

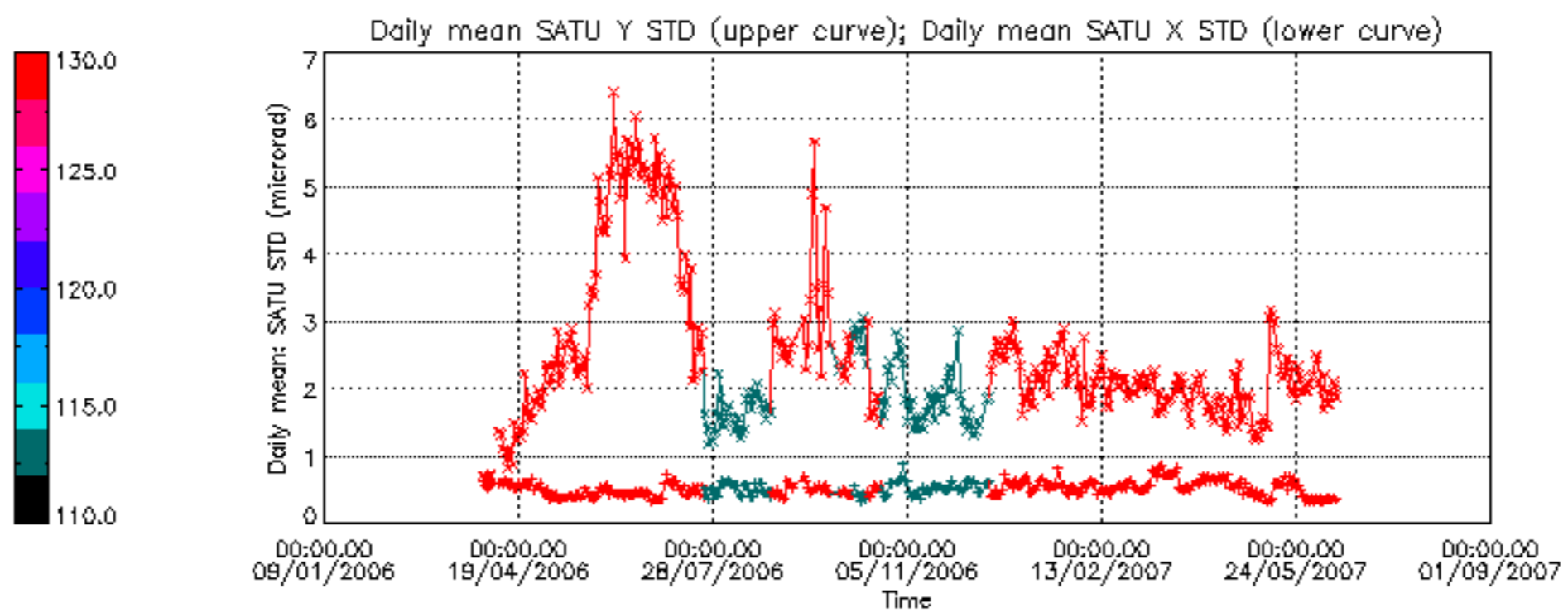


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070601_001523_000050842058_00345_27453_3813.N1

1; -648.0; 01-JUN-2007 00:15:23; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;27453
 2; -387.5; 01-JUN-2007 00:19:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27453
 3; -245.5; 01-JUN-2007 00:22:06; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;27453
 4; 71.8; 01-JUN-2007 00:27:23; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27454
 5; 183.7; 01-JUN-2007 00:29:15; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27454
 6; 483.8; 01-JUN-2007 00:34:15; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27454
 7; 857.6; 01-JUN-2007 00:40:29; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27454
 8; 932.4; 01-JUN-2007 00:41:44; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;27454
 9; 1033.6; 01-JUN-2007 00:43:25; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27454
 10; 1141.6; 01-JUN-2007 00:45:13; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27454
 11; 1248.8; 01-JUN-2007 00:47:00; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;27454
 12; 1430.2; 01-JUN-2007 00:50:01; Bright; 39.0; 156; 20Sig Sco ; 2.90; 28000;occ; 78; 0;27454
 13; 1543.0; 01-JUN-2007 00:51:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27454
 14; 1702.3; 01-JUN-2007 00:54:34; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27454
 15; 1834.1; 01-JUN-2007 00:56:45; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27454
 16; 2015.0; 01-JUN-2007 00:59:46; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27454
 17; 2369.9; 01-JUN-2007 01:05:41; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27454
 18; 3006.7; 01-JUN-2007 01:16:18; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27454
 19; 3166.1; 01-JUN-2007 01:18:57; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27454
 20; 3446.7; 01-JUN-2007 01:23:38; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27454
 21; 3929.6; 01-JUN-2007 01:31:41; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;27454
 22; 4393.6; 01-JUN-2007 01:39:25; Bright; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;27454

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1; -647.3; 01-JUN-2007 01:56:00; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;27454
 2; -387.1; 01-JUN-2007 02:00:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27454
 3; -244.9; 01-JUN-2007 02:02:42; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27454
 4; 72.6; 01-JUN-2007 02:08:00; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;27455
 5; 184.6; 01-JUN-2007 02:09:52; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27455
 6; 484.5; 01-JUN-2007 02:14:52; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27455
 7; 858.0; 01-JUN-2007 02:21:05; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27455
 8; 932.9; 01-JUN-2007 02:22:20; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27455
 9; 1034.0; 01-JUN-2007 02:24:01; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27455
 10; 1142.0; 01-JUN-2007 02:25:49; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;27455
 11; 1249.1; 01-JUN-2007 02:27:36; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;27455
 12; 1430.5; 01-JUN-2007 02:30:38; Bright; 40.0; 156; 20Sig Sco ; 2.90; 28000;occ; 80; 0;27455
 13; 1543.3; 01-JUN-2007 02:32:30; Bright; 39.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 78; 0;27455
 14; 1702.4; 01-JUN-2007 02:35:10; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27455
 15; 1834.1; 01-JUN-2007 02:37:21; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27455
 16; 2014.9; 01-JUN-2007 02:40:22; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27455
 17; 2369.8; 01-JUN-2007 02:46:17; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27455
 18; 3006.5; 01-JUN-2007 02:56:54; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27455
 19; 3166.1; 01-JUN-2007 02:59:33; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27455
 20; 3446.8; 01-JUN-2007 03:04:14; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27455

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1; -2106.4; 01-JUN-2007 03:12:17; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;27455
 2; -1642.2; 01-JUN-2007 03:20:01; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;27455
 3; -646.8; 01-JUN-2007 03:36:36; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;27455
 4; -386.7; 01-JUN-2007 03:40:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27455
 5; -244.3; 01-JUN-2007 03:43:19; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27455
 6; 73.6; 01-JUN-2007 03:48:37; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;27456
 7; 185.6; 01-JUN-2007 03:50:29; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27456
 8; 485.4; 01-JUN-2007 03:55:28; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27456
 9; 858.6; 01-JUN-2007 04:01:42; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;27456
 10; 933.3; 01-JUN-2007 04:02:56; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27456
 11; 1034.5; 01-JUN-2007 04:04:38; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;27456
 12; 1142.6; 01-JUN-2007 04:06:26; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;27456
 13; 1249.5; 01-JUN-2007 04:08:13; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;27456
 14; 1409.3; 01-JUN-2007 04:10:52; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;27456
 15; 1543.7; 01-JUN-2007 04:13:07; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27456
 16; 1702.6; 01-JUN-2007 04:15:46; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27456
 17; 1834.3; 01-JUN-2007 04:17:57; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27456
 18; 2015.1; 01-JUN-2007 04:20:58; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27456
 19; 2369.8; 01-JUN-2007 04:26:53; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27456
 20; 3006.3; 01-JUN-2007 04:37:29; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27456
 21; 3166.2; 01-JUN-2007 04:40:09; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;27456
 22; 3446.8; 01-JUN-2007 04:44:50; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;27456

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1; -2106.3; 01-JUN-2007 04:52:53; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27456
 2; -1642.2; 01-JUN-2007 05:00:37; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;27456
 3; -646.1; 01-JUN-2007 05:17:13; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;27456
 4; -386.2; 01-JUN-2007 05:21:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27456
 5; -243.8; 01-JUN-2007 05:23:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;27456
 6; 74.4; 01-JUN-2007 05:29:13; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27457
 7; 186.6; 01-JUN-2007 05:31:06; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27457
 8; 486.0; 01-JUN-2007 05:36:05; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27457
 9; 858.9; 01-JUN-2007 05:42:18; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;27457
 10; 933.9; 01-JUN-2007 05:43:33; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27457
 11; 1034.9; 01-JUN-2007 05:45:14; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;27457
 12; 1143.0; 01-JUN-2007 05:47:02; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27457
 13; 1249.7; 01-JUN-2007 05:48:49; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;27457
 14; 1409.5; 01-JUN-2007 05:51:29; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;27457
 15; 1543.7; 01-JUN-2007 05:53:43; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27457
 16; 1702.7; 01-JUN-2007 05:56:22; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27457
 17; 1834.3; 01-JUN-2007 05:58:33; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27457
 18; 2015.0; 01-JUN-2007 06:01:34; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27457
 19; 2369.7; 01-JUN-2007 06:07:29; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;27457
 20; 3005.9; 01-JUN-2007 06:18:05; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27457
 21; 3166.2; 01-JUN-2007 06:20:45; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27457
 22; 3446.9; 01-JUN-2007 06:25:26; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27457

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 2; 937.5; 01-JUN-2007 20:49:00; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27466
 3; 1038.8; 01-JUN-2007 20:50:41; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;27466
 4; 1146.7; 01-JUN-2007 20:52:29; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27466
 5; 1252.4; 01-JUN-2007 20:54:15; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27466
 6; 1374.4; 01-JUN-2007 20:56:17; Dark ; 39.0; 136; 23Tau Sco ; 2.82; 30000;occ; 78; 0;27466
 7; 1545.0; 01-JUN-2007 20:59:08; Bright; 38.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 76; 0;27466
 8; 1703.0; 01-JUN-2007 21:01:46; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27466
 9; 1834.0; 01-JUN-2007 21:03:57; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27466
 10; 2014.7; 01-JUN-2007 21:06:57; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27466
 11; 2368.6; 01-JUN-2007 21:12:51; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;27466
 12; 3003.4; 01-JUN-2007 21:23:26; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27466
 13; 3165.9; 01-JUN-2007 21:26:08; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27466
 14; 3446.7; 01-JUN-2007 21:30:49; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27466
 15; 3928.7; 01-JUN-2007 21:38:51; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27466
 16; 4394.9; 01-JUN-2007 21:46:38; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;27466

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 3; -238.3; 01-JUN-2007 22:10:00; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;27466
 4; 82.9; 01-JUN-2007 22:15:21; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;27467
 5; 195.8; 01-JUN-2007 22:17:14; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27467
 6; 492.7; 01-JUN-2007 22:22:11; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27467
 7; 862.6; 01-JUN-2007 22:28:21; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27467
 8; 937.9; 01-JUN-2007 22:29:36; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27467
 9; 1039.3; 01-JUN-2007 22:31:18; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27467
 10; 1147.1; 01-JUN-2007 22:33:06; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;27467
 11; 1252.8; 01-JUN-2007 22:34:51; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27467
 12; 1374.4; 01-JUN-2007 22:36:53; Dark ; 39.5; 136; 23Tau Sco ; 2.82; 30000;occ; 79; 0;27467
 13; 1545.1; 01-JUN-2007 22:39:44; Bright; 38.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 76; 0;27467
 14; 1702.9; 01-JUN-2007 22:42:21; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27467
 15; 1834.0; 01-JUN-2007 22:44:32; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;27467
 16; 2014.7; 01-JUN-2007 22:47:33; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;27467
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6; 86.4; 02-JUN-2007 04:57:49; Dark ; 42.0; 63; Bet Gru ; 2.15; 2800;occ; 84; 0;27471
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15; 1545.9; 02-JUN-2007 05:22:08; Bright; 36.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 73; 0;27471
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10; 940.1; 02-JUN-2007 06:52:38; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;27472
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13; 1254.4; 02-JUN-2007 06:57:52; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;27472
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16; 4642.1; 04-JUN-2007 18:35:18; Dark ; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;27507
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13; 1506.8; 05-JUN-2007 02:06:02; Bright; 38.5; 80; 7Del Sco ; 2.32; 30000;occ; 77; 0;27512
14; 1596.1; 05-JUN-2007 02:07:31; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27512
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8; 1706.5; 06-JUN-2007 20:04:20; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;27537
9; 1834.9; 06-JUN-2007 20:06:29; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;27537
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12; 2495.5; 06-JUN-2007 20:17:29; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27537
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15; 3446.7; 06-JUN-2007 20:33:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27537
16; 3920.4; 06-JUN-2007 20:41:14; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;27537
17; 4262.8; 06-JUN-2007 20:46:56; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;27537
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19; 4648.3; 06-JUN-2007 20:53:22; Dark ; 40.5; 105; 6Bet Ari ; 2.64; 8900;occ; 81; 0;27537

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2;	-347.0;	06-JUN-2007	21:10:43;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	27537
3;	-196.2;	06-JUN-2007	21:13:13;	Dark	;	46.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	93;	0;	27537
4;	145.6;	06-JUN-2007	21:18:55;	Dark	;	50.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	100;	0;	27538
5;	263.6;	06-JUN-2007	21:20:53;	Dark	;	47.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	94;	0;	27538
6;	540.6;	06-JUN-2007	21:25:30;	Dark	;	44.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	88;	0;	27538
7;	887.7;	06-JUN-2007	21:31:17;	Dark	;	39.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	78;	0;	27538
8;	965.6;	06-JUN-2007	21:32:35;	Dark	;	39.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	79;	0;	27538
9;	1068.6;	06-JUN-2007	21:34:18;	Dark	;	45.0;	40;	The	Sco	;	1.86;	7100;	occ;	90;	0;	27538
10;	1174.6;	06-JUN-2007	21:36:04;	Dark	;	46.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	92;	0;	27538
11;	1272.7;	06-JUN-2007	21:37:42;	Dark	;	45.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	90;	0;	27538
12;	1390.5;	06-JUN-2007	21:39:40;	Dark	;	42.5;	136;	23Tau	Sco	;	2.82;	30000;	occ;	85;	0;	27538
13;	1511.3;	06-JUN-2007	21:41:41;	Bright;		37.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	75;	0;	27538
14;	1598.7;	06-JUN-2007	21:43:08;	Bright;		42.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	85;	0;	27538
15;	1706.5;	06-JUN-2007	21:44:56;	Bright;		38.5;	98;	13Zet	Oph	;	2.57;	30000;	occ;	77;	0;	27538
16;	1834.8;	06-JUN-2007	21:47:04;	Bright;		37.5;	120;	1Del	Oph	;	2.73;	3200;	occ;	75;	0;	27538
17;	2015.0;	06-JUN-2007	21:50:05;	Bright;		35.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	70;	0;	27538
18;	2298.6;	06-JUN-2007	21:54:48;	Bright;		40.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	80;	0;	27538
19;	2495.1;	06-JUN-2007	21:58:05;	Bright;		40.5;	133;	40Zet	Her	;	2.81;	6000;	occ;	81;	0;	27538
20;	2984.7;	06-JUN-2007	22:06:14;	Bright;		51.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	102;	0;	27538
21;	3165.2;	06-JUN-2007	22:09:15;	Bright;		36.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	73;	0;	27538
22;	3446.6;	06-JUN-2007	22:13:56;	Bright;		35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	27538
23;	3920.0;	06-JUN-2007	22:21:50;	Bright;		36.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	72;	0;	27538
24;	4262.7;	06-JUN-2007	22:27:32;	Bright;		54.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	108;	0;	27538
25;	4401.4;	06-JUN-2007	22:29:51;	Dark	;	52.0;	53;	43Bet	And	;	2.05;	3300;	occ;	104;	0;	27538
26;	4648.5;	06-JUN-2007	22:33:58;	Dark	;	40.5;	105;	6Bet	Ari	;	2.64;	8900;	occ;	81;	0;	27538

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2;	-346.4;	06-JUN-2007	22:51:19;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	27538
3;	-195.5;	06-JUN-2007	22:53:50;	Dark	;	44.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	88;	0;	27538
4;	146.5;	06-JUN-2007	22:59:32;	Dark	;	63.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	126;	0;	27539
5;	264.5;	06-JUN-2007	23:01:30;	Dark	;	52.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	104;	0;	27539
6;	541.3;	06-JUN-2007	23:06:07;	Dark	;	42.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	85;	0;	27539
7;	888.0;	06-JUN-2007	23:11:53;	Dark	;	40.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	80;	0;	27539
8;	966.0;	06-JUN-2007	23:13:11;	Dark	;	37.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	75;	0;	27539
9;	1068.9;	06-JUN-2007	23:14:54;	Dark	;	44.0;	40;	The	Sco	;	1.86;	7100;	occ;	88;	0;	27539
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12;	1390.6;	06-JUN-2007	23:20:16;	Dark	;	45.5;	136;	23Tau	Sco	;	2.82;	30000;	occ;	91;	0;	27539
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14;	1598.8;	06-JUN-2007	23:23:44;	Bright;		43.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	86;	0;	27539
15;	1706.6;	06-JUN-2007	23:25:32;	Bright;		40.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	80;	0;	27539
16;	1834.7;	06-JUN-2007	23:27:40;	Bright;		37.5;	120;	1Del	Oph	;	2.73;	3200;	occ;	75;	0;	27539
17;	2015.0;	06-JUN-2007	23:30:40;	Bright;		35.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	70;	0;	27539
18;	2298.4;	06-JUN-2007	23:35:24;	Bright;		40.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	80;	0;	27539
19;	2494.7;	06-JUN-2007	23:38:40;	Bright;		42.0;	133;	40Zet	Her	;	2.81;	6000;	occ;	84;	0;	27539
20;	2984.6;	06-JUN-2007	23:46:50;	Bright;		37.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	74;	0;	27539
21;	3165.2;	06-JUN-2007	23:49:51;	Bright;		35.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	71;	0;	27539
22;	3446.7;	06-JUN-2007	23:54:32;	Bright;		32.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	64;	0;	27539
23;	3919.9;	07-JUN-2007	00:02:25;	Bright;		41.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	83;	0;	27539
24;	4263.2;	07-JUN-2007	00:08:09;	Bright;		36.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	72;	0;	27539
25;	4401.5;	07-JUN-2007	00:10:27;	Dark	;	47.0;	53;	43Bet	And	;	2.05;	3300;	occ;	94;	0;	27539
26;	4648.9;	07-JUN-2007	00:14:34;	Dark	;	42.0;	105;	6Bet	Ari	;	2.64;	8900;	occ;	84;	0;	27539

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13; 4263.8; 07-JUN-2007 15:13:32; Bright; 53.5; 73; 57Gam1And ; 2.26; 13100;occ; 107; 0;27548
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 23; 6927.8; 07-JUN-2007 17:38:32; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27549
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16; 5863.5; 09-JUN-2007 09:35:11; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;27573
17; 6214.7; 09-JUN-2007 09:41:02; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;27573
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19; 6600.1; 09-JUN-2007 09:47:27; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27573
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21; 7118.2; 09-JUN-2007 09:56:05; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;27573

```



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22; 7223.3; 09-JUN-2007 09:57:50; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;27573
23; 7318.2; 09-JUN-2007 09:59:25; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27573
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25; 7638.6; 09-JUN-2007 10:04:46; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;27573
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14; 5709.3; 09-JUN-2007 11:13:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27574
15; 5864.1; 09-JUN-2007 11:15:47; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;27574
16; 6215.5; 09-JUN-2007 11:21:38; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27574
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19; 7014.9; 09-JUN-2007 11:34:58; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;27574
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22; 7318.3; 09-JUN-2007 11:40:01; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;27574
23; 7489.8; 09-JUN-2007 11:42:53; Bright; 36.5; 156; 20Sig Sco ; 2.90; 28000;occ; 73; 0;27574
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12; 4600.1; 09-JUN-2007 12:35:19; Dark ; 46.0; 50; 13Alp Ari ; 2.01; 4250;occ; 92; 0;27575
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18; 6601.4; 09-JUN-2007 13:08:40; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27575
19; 7015.4; 09-JUN-2007 13:15:34; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27575
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12; 4404.6; 09-JUN-2007 14:12:39; Dark ; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;27576

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 12; 4265.6; 09-JUN-2007 15:50:56; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;27577
 13; 4404.8; 09-JUN-2007 15:53:15; Dark ; 48.0; 53; 43Bet And ; 2.05; 3300;occ; 96; 0;27577
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 16; 5476.3; 09-JUN-2007 17:51:43; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;27578
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16; 7139.1; 13-JUN-2007 14:32:22; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;27633
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070622_081738_000060712059_00150_27759_8144.N1

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12; 4930.8; 22-JUN-2007 12:32:13; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;27761
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 14; 5650.4; 22-JUN-2007 12:44:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27761
 15; 6014.4; 22-JUN-2007 12:50:16; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;27761
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 18; 7070.7; 22-JUN-2007 13:07:53; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;27761
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 13; 4931.2; 22-JUN-2007 14:12:49; Dark ; 46.5; 94; 92Alp Cet ; 2.53; 3100;occ; 93; 0;27762
 14; 5174.5; 22-JUN-2007 14:16:52; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;27762
 15; 5650.8; 22-JUN-2007 14:24:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27762
 16; 6014.9; 22-JUN-2007 14:30:53; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;27762
 17; 6324.3; 22-JUN-2007 14:36:02; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;27762
 18; 6986.5; 22-JUN-2007 14:47:04; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;27762
 19; 7071.0; 22-JUN-2007 14:48:29; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;27762
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 21; 7278.7; 22-JUN-2007 14:51:56; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;27762
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 13; 4931.8; 22-JUN-2007 15:53:25; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;27763
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070622_163233_000058572059_00155_27764_8149.N1

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 11; 3176.6; 22-JUN-2007 17:04:46; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27764
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```

13; 4065.2; 22-JUN-2007 17:19:35; Bright; 34.0; 160; 23Gam Per ; 2.93; 4700;occ; 68; 0;27764
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12; 2953.3; 22-JUN-2007 18:41:39; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;27765
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 4; 2385.3; 23-JUN-2007 09:37:34; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27774
 5; 2953.0; 23-JUN-2007 09:47:02; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27774

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7; 3446.2; 23-JUN-2007 09:55:15; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27774
8; 4065.3; 23-JUN-2007 10:05:34; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;27774
9; 4287.3; 23-JUN-2007 10:09:16; Bright; 36.0; 79; 26Bet Per ; 2.31; 13100;occ; 72; 0;27774
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11; 5176.2; 23-JUN-2007 10:24:05; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;27774
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9; 3446.2; 23-JUN-2007 11:35:51; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27775
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9; 3446.2; 23-JUN-2007 13:16:27; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27776
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11; 4287.9; 23-JUN-2007 13:30:29; Bright; 54.0; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;27776
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17; 6989.7; 23-JUN-2007 14:15:30; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;27776
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9; 3178.0; 23-JUN-2007 14:52:35; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27777
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21; 7282.3; 23-JUN-2007 16:00:59; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;27777
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3; 1627.1; 23-JUN-2007 16:07:20; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;27778
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070625_114441_000059472059_00195_27804_8172.N1

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16; 6995.9; 25-JUN-2007 14:52:59; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;27805
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070626_003432_000053522059_00202_27811_3851.N1

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6; 437.8; 26-JUN-2007 04:09:04; Dark ; 48.0; 148; Alp Tuc ; 2.88; 4100;occ; 96; 0;27814
7; 707.0; 26-JUN-2007 04:13:33; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27814

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070626_143235_000056972059_00211_27820_8182.N1

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 13; 2951.7; 29-JUN-2007 21:42:42; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;27867
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 12; 3445.7; 29-JUN-2007 16:49:08; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27864
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2;	1165.9;	29-JUN-2007	17:51:45;	Dark	;	42.5;	40;	The Sco	;	1.86;	7100;occ;	85;	0;	27865
3;	1265.9;	29-JUN-2007	17:53:25;	Dark	;	39.5;	25;	35Lam Sco	;	1.62;	28000;occ;	79;	0;	27865
4;	1349.9;	29-JUN-2007	17:54:49;	Dark	;	45.5;	116;	19Del Sgr	;	2.70;	4100;occ;	91;	0;	27865
5;	1639.3;	29-JUN-2007	17:59:38;	Bright;		36.5;	86;	35Eta Oph	;	2.43;	10200;occ;	73;	0;	27865
6;	1744.2;	29-JUN-2007	18:01:23;	Bright;		35.5;	98;	13Zet Oph	;	2.57;	30000;occ;	71;	0;	27865
7;	1982.8;	29-JUN-2007	18:05:21;	Bright;		38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	27865
8;	2123.4;	29-JUN-2007	18:07:42;	Bright;		36.5;	59;	55Alp Oph	;	2.08;	8900;occ;	73;	0;	27865
9;	2280.8;	29-JUN-2007	18:10:19;	Bright;		37.5;	127;	27Bet Her	;	2.78;	4700;occ;	75;	0;	27865
10;	2446.8;	29-JUN-2007	18:13:05;	Bright;		34.0;	133;	40Zet Her	;	2.81;	6000;occ;	68;	0;	27865
11;	2813.3;	29-JUN-2007	18:19:12;	Bright;		37.5;	130;	23Bet Dra	;	2.80;	5800;occ;	75;	0;	27865
12;	2951.7;	29-JUN-2007	18:21:30;	Bright;		36.0;	119;	14Eta Dra	;	2.73;	4700;occ;	72;	0;	27865
13;	3188.2;	29-JUN-2007	18:25:27;	Bright;		35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;	27865
14;	3445.6;	29-JUN-2007	18:29:44;	Bright;		35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	27865
15;	4063.9;	29-JUN-2007	18:40:03;	Bright;		37.0;	160;	23Gam Per	;	2.93;	4700;occ;	74;	0;	27865
16;	4164.6;	29-JUN-2007	18:41:43;	Bright;		37.0;	175;	39Del Per	;	3.01;	19400;occ;	74;	0;	27865
17;	4293.7;	29-JUN-2007	18:43:52;	Bright;		36.0;	79;	26Bet Per	;	2.31;	13100;occ;	72;	0;	27865
18;	4967.8;	29-JUN-2007	18:55:06;	Dark	;	49.5;	94;	92Alp Cet	;	2.53;	3100;occ;	99;	0;	27865
19;	5194.8;	29-JUN-2007	18:58:53;	Dark	;	40.5;	165;	34Gam Eri	;	2.95;	3200;occ;	81;	0;	27865
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22;	6505.5;	29-JUN-2007	19:20:44;	Dark	;	42.5;	148;	Alp Tuc	;	2.88;	4100;occ;	85;	0;	27865
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3;	1266.1;	29-JUN-2007	19:34:01;	Dark	;	39.5;	25;	35Lam Sco	;	1.62;	28000;occ;	79;	0;	27866
4;	1350.1;	29-JUN-2007	19:35:25;	Dark	;	49.0;	116;	19Del Sgr	;	2.70;	4100;occ;	98;	0;	27866
5;	1639.4;	29-JUN-2007	19:40:14;	Bright;		37.0;	86;	35Eta Oph	;	2.43;	10200;occ;	74;	0;	27866
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11;	2813.1;	29-JUN-2007	19:59:48;	Bright;		37.5;	130;	23Bet Dra	;	2.80;	5800;occ;	75;	0;	27866
12;	2951.8;	29-JUN-2007	20:02:06;	Bright;		36.0;	119;	14Eta Dra	;	2.73;	4700;occ;	72;	0;	27866
13;	3188.4;	29-JUN-2007	20:06:03;	Bright;		35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;	27866
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16;	4164.8;	29-JUN-2007	20:22:19;	Bright;		33.5;	175;	39Del Per	;	3.01;	19400;occ;	67;	0;	27866
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18;	4968.0;	29-JUN-2007	20:35:43;	Dark	;	48.5;	94;	92Alp Cet	;	2.53;	3100;occ;	97;	0;	27866
19;	5194.9;	29-JUN-2007	20:39:30;	Dark	;	42.5;	165;	34Gam Eri	;	2.95;	3200;occ;	85;	0;	27866
20;	5702.9;	29-JUN-2007	20:47:58;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	27866
21;	6061.1;	29-JUN-2007	20:53:56;	Dark	;	51.0;	9;	Alp Eri	;	0.45;	24000;occ;	102;	0;	27866
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8;	1266.6;	30-JUN-2007	00:35:49;	Dark	;	39.0;	25;	35Lam Sco	;	1.62;	28000;occ;	78;	0;	27869
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14;	2281.1;	30-JUN-2007	00:52:43;	Bright;		34.0;	127;	27Bet Her	;	2.78;	4700;occ;	68;	0;	27869
15;	2447.0;	30-JUN-2007	00:55:29;	Bright;		35.5;	133;	40Zet Her	;	2.81;	6000;occ;	71;	0;	27869
16;	2812.3;	30-JUN-2007	01:01:35;	Bright;		36.0;	130;	23Bet Dra	;	2.80;	5800;occ;	72;	0;	27869
17;	2951.8;	30-JUN-2007	01:03:54;	Bright;		36.5;	119;	14Eta Dra	;	2.73;	4700;occ;	73;	0;	27869
18;	3188.7;	30-JUN-2007	01:07:51;	Bright;		37.0;	60;	7Bet UMi	;	2.08;	3950;occ;	74;	0;	27869
19;	3445.6;	30-JUN-2007	01:12:08;	Bright;		33.0;	49;	1Alp UMi	;	1.99;	6300;occ;	66;	0;	27869
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