

GOMOS Daily Report 15-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	17JAN2007 05:32:40
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (15JAN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (16JAN2007 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)

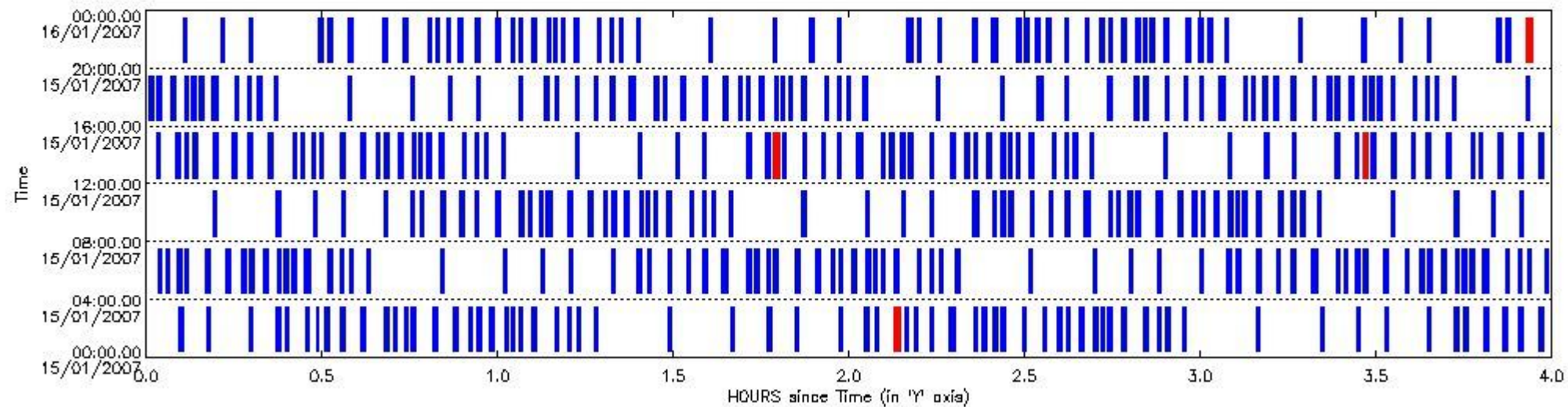
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

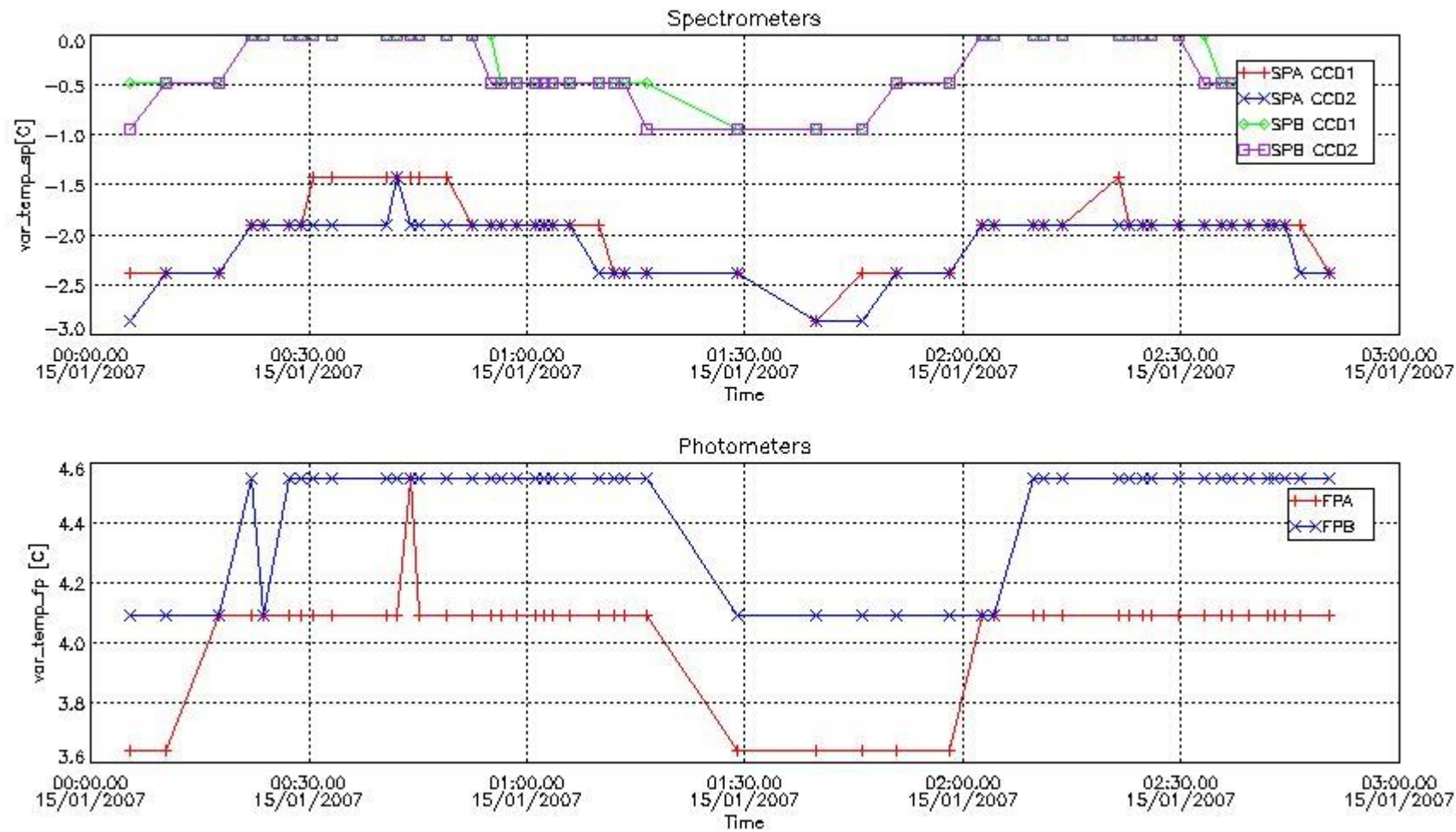
UTC start time	Star name	Star ID	Orbit
15-JAN-2007 02:07:47	GamLup	131	25493
15-JAN-2007 13:47:07	23TauSco	136	25500
15-JAN-2007 15:27:43	23TauSco	136	25501
15-JAN-2007 23:55:40	GamLup	131	25506

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_1PNPDE20070115_000529_000000442054_00388_25492_7514.N1	15-JAN-2007 00:05:29	Bright	44.000	133	40Zet Her	2.8070	6000.0	88	25492	No
2	GOM_TRA_1PNPDE20070115_001018_000000332054_00388_25492_7515.N1	15-JAN-2007 00:10:18	Bright	32.500	59	55Alp Oph	2.0800	8900.0	65	25492	No
3	GOM_TRA_1PNPDE20070115_001733_000000372054_00388_25492_7516.N1	15-JAN-2007 00:17:33	Bright	37.000	98	13Zet Oph	2.5710	30000.	74	25492	No
4	GOM_TRA_1PNPDE20070115_002201_000000512054_00388_25492_7643.N1	15-JAN-2007 00:22:01	Twilight	50.500	16	21Alp Sco	1.0200	3000.0	101	25492	No
5	GOM_TRA_1PNPDE20070115_002343_000000382054_00388_25492_7644.N1	15-JAN-2007 00:23:43	Twilight	37.500	75	26Eps Sco	2.2910	4250.0	75	25492	No
6	GOM_TRA_1PNPDE20070115_002714_000000392054_00388_25492_7645.N1	15-JAN-2007 00:27:14	Dark	38.500	131	Gam Lup	2.8000	26000.	77	25492	No
7	GOM_TRA_1PNPDE20070115_002858_000000312054_00388_25492_7646.N1	15-JAN-2007 00:28:58	Dark	31.000	109	Bet Lup	2.6770	26000.	62	25492	No

8	GOM_TRA_1PNPDE20070115_003029_000000402054_00388_25492_7647.N1	15-JAN-2007 00:30:29	Dark	40.000	78	Alp Lup	2.3040	28000.	80	25492	No
9	GOM_TRA_1PNPDE20070115_003306_000000412054_00389_25493_7648.N1	15-JAN-2007 00:33:06	Dark	41.000	4	Alp1Cen	-0.010000	5800.0	82	25493	No
10	GOM_TRA_1PNPDE20070115_004043_000000382054_00389_25493_7649.N1	15-JAN-2007 00:40:43	Dark	38.000	124	The Car	2.7640	30000.	76	25493	No
11	GOM_TRA_1PNPDE20070115_004207_000000382054_00389_25493_7650.N1	15-JAN-2007 00:42:07	Dark	37.500	29	Bet Car	1.6720	10200.	75	25493	No
12	GOM_TRA_1PNPDE20070115_004401_000000412054_00389_25493_7651.N1	15-JAN-2007 00:44:01	Dark	40.500	71	lot Car	2.2460	7700.0	81	25493	No
13	GOM_TRA_1PNPDE20070115_004517_000000462054_00389_25493_7652.N1	15-JAN-2007 00:45:17	Dark	45.500	41	Eps Car	1.8600	4100.0	91	25493	No
14	GOM_TRA_1PNPDE20070115_004855_000000452054_00389_25493_7653.N1	15-JAN-2007 00:48:55	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	25493	No
15	GOM_TRA_1PNPDE20070115_005227_000000432054_00389_25493_7654.N1	15-JAN-2007 00:52:27	Straylight	43.000	117	Pi Pup	2.7060	3800.0	86	25493	No
16	GOM_TRA_1PNPDE20070115_005501_000000432054_00389_25493_7655.N1	15-JAN-2007 00:55:01	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	25493	No
17	GOM_TRA_1PNPDE20070115_005626_000000412054_00389_25493_7656.N1	15-JAN-2007 00:56:26	Straylight	40.500	179	24Omi2CMa	3.0320	24000.	81	25493	No
18	GOM_TRA_1PNPDE20070115_005840_000000432054_00389_25493_7657.N1	15-JAN-2007 00:58:40	Straylight	43.000	1	9Alp CMa	-1.4400	11000.	86	25493	No
19	GOM_TRA_1PNPDE20070115_010110_000000412054_00389_25493_7658.N1	15-JAN-2007 01:01:10	Straylight	40.500	56	53Kap Ori	2.0650	30000.	81	25493	No
20	GOM_TRA_1PNPDE20070115_010219_000000392054_00389_25493_7659.N1	15-JAN-2007 01:02:19	Straylight	38.500	125	44lot Ori	2.7700	30000.	77	25493	No
21	GOM_TRA_1PNPDE20070115_010337_000000422054_00389_25493_7660.N1	15-JAN-2007 01:03:37	Twilight	41.500	30	46Eps Ori	1.6940	30000.	83	25493	No
22	GOM_TRA_1PNPDE20070115_010551_000000522054_00389_25493_7661.N1	15-JAN-2007 01:05:51	Twilight	52.000	14	58Alp Ori	0.87000	3000.0	104	25493	No
23	GOM_TRA_1PNPDE20070115_010947_000000362054_00389_25493_7662.N1	15-JAN-2007 01:09:47	Bright	36.000	176	23Zet Tau	3.0200	22000.	72	25493	No
24	GOM_TRA_1PNPDE20070115_011156_000000362054_00389_25493_7663.N1	15-JAN-2007 01:11:56	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	25493	No
25	GOM_TRA_1PNPDE20070115_011331_000000382054_00389_25493_7664.N1	15-JAN-2007 01:13:31	Bright	38.000	114	3lot Aur	2.6930	4600.0	76	25493	No
26	GOM_TRA_1PNPDE20070115_011625_000000372054_00389_25493_7665.N1	15-JAN-2007 01:16:25	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	25493	No
27	GOM_TRA_1PNPDE20070115_012858_000000352054_00389_25493_7666.N1	15-JAN-2007 01:28:58	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	25493	No
28	GOM_TRA_1PNPDE20070115_013949_000000362054_00389_25493_7667.N1	15-JAN-2007 01:39:49	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	25493	No
29	GOM_TRA_1PNPDE20070115_014605_000000362054_00389_25493_7668.N1	15-JAN-2007 01:46:05	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	25493	No
30	GOM_TRA_1PNPDE20070115_015054_000000322054_00389_25493_7669.N1	15-JAN-2007 01:50:54	Bright	32.000	59	55Alp Oph	2.0800	8900.0	64	25493	No
31	GOM_TRA_1PNPDE20070115_015810_000000362054_00389_25493_7787.N1	15-JAN-2007 01:58:10	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	25493	No
32	GOM_TRA_1PNPDE20070115_020237_000000452054_00389_25493_7788.N1	15-JAN-2007 02:02:37	Twilight	45.000	16	21Alp Sco	1.0200	3000.0	90	25493	No
33	GOM_TRA_1PNPDE20070115_020419_000000382054_00389_25493_7789.N1	15-JAN-2007 02:04:19	Twilight	38.000	75	26Eps Sco	2.2910	4250.0	76	25493	No
34	GOM_TRA_1PNPDE20070115_020935_000000312054_00389_25493_7790.N1	15-JAN-2007 02:09:35	Dark	31.000	109	Bet Lup	2.6770	26000.	62	25493	No
35	GOM_TRA_1PNPDE20070115_021105_000000392054_00389_25493_7791.N1	15-JAN-2007 02:11:05	Dark	39.000	78	Alp Lup	2.3040	28000.	78	25493	No
36	GOM_TRA_1PNPDE20070115_021343_000000412054_00390_25494_7792.N1	15-JAN-2007 02:13:43	Dark	41.000	4	Alp1Cen	-0.010000	5800.0	82	25494	No
37	GOM_TRA_1PNPDE20070115_022120_000000382054_00390_25494_7793.N1	15-JAN-2007 02:21:20	Dark	38.000	124	The Car	2.7640	30000.	76	25494	No
38	GOM_TRA_1PNPDE20070115_022243_000000392054_00390_25494_7794.N1	15-JAN-2007 02:22:43	Dark	38.500	29	Bet Car	1.6720	10200.	77	25494	No
39	GOM_TRA_1PNPDE20070115_022438_000000392054_00390_25494_7795.N1	15-JAN-2007 02:24:38	Dark	39.000	71	lot Car	2.2460	7700.0	78	25494	No
40	GOM_TRA_1PNPDE20070115_022553_000000442054_00390_25494_7796.N1	15-JAN-2007 02:25:53	Dark	44.000	41	Eps Car	1.8600	4100.0	88	25494	No
41	GOM_TRA_1PNPDE20070115_022931_000000432054_00390_25494_7797.N1	15-JAN-2007 02:29:31	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	25494	No
42	GOM_TRA_1PNPDE20070115_023303_000000412054_00390_25494_7798.N1	15-JAN-2007 02:33:03	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	25494	No
43	GOM_TRA_1PNPDE20070115_023537_000000442054_00390_25494_7799.N1	15-JAN-2007 02:35:37	Straylight	43.500	23	21Eps CMa	1.5020	26000.	87	25494	No
44	GOM_TRA_1PNPDE20070115_023702_000000412054_00390_25494_7800.N1	15-JAN-2007 02:37:02	Straylight	41.000	179	24Omi2CMa	3.0320	24000.	82	25494	No
45	GOM_TRA_1PNPDE20070115_023916_000000432054_00390_25494_7801.N1	15-JAN-2007 02:39:16	Straylight	42.500	1	9Alp CMa	-1.4400	11000.	85	25494	No
46	GOM_TRA_1PNPDE20070115_024146_000000412054_00390_25494_7802.N1	15-JAN-2007 02:41:46	Straylight	41.000	56	53Kap Ori	2.0650	30000.	82	25494	No
47	GOM_TRA_1PNPDE20070115_024256_000000392054_00390_25494_7803.N1	15-JAN-2007 02:42:56	Straylight	39.000	125	44lot Ori	2.7700	30000.	78	25494	No
48	GOM_TRA_1PNPDE20070115_024413_000000432054_00390_25494_7804.N1	15-JAN-2007 02:44:13	Twilight	43.000	30	46Eps Ori	1.6940	30000.	86	25494	No
49	GOM_TRA_1PNPDE20070115_024627_000000462054_00390_25494_7805.N1	15-JAN-2007 02:46:27	Twilight	45.500	14	58Alp Ori	0.87000	3000.0	91	25494	No
50	GOM_TRA_1PNPDE20070115_025024_000000362054_00390_25494_7806.N1	15-JAN-2007 02:50:24	Bright	36.000	176	23Zet Tau	3.0200	22000.	72	25494	No

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



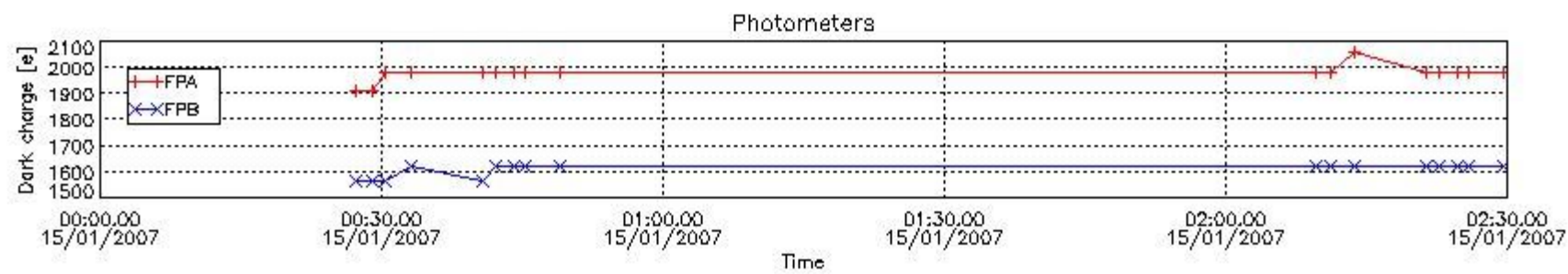
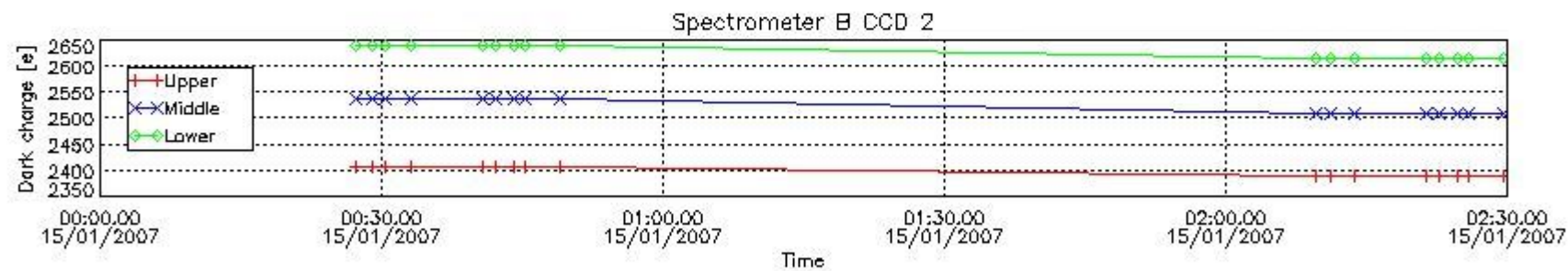
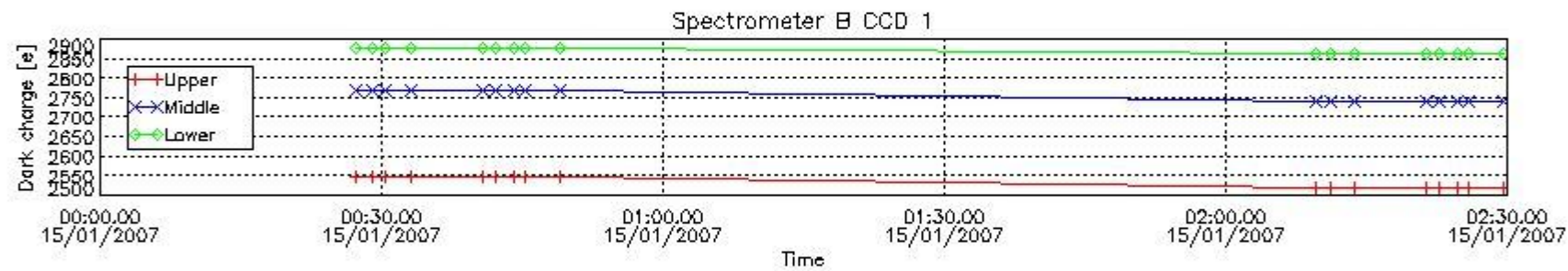
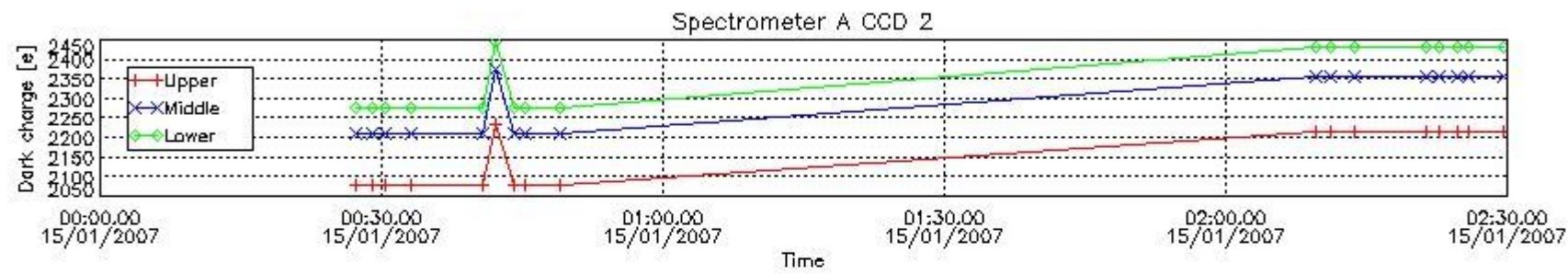
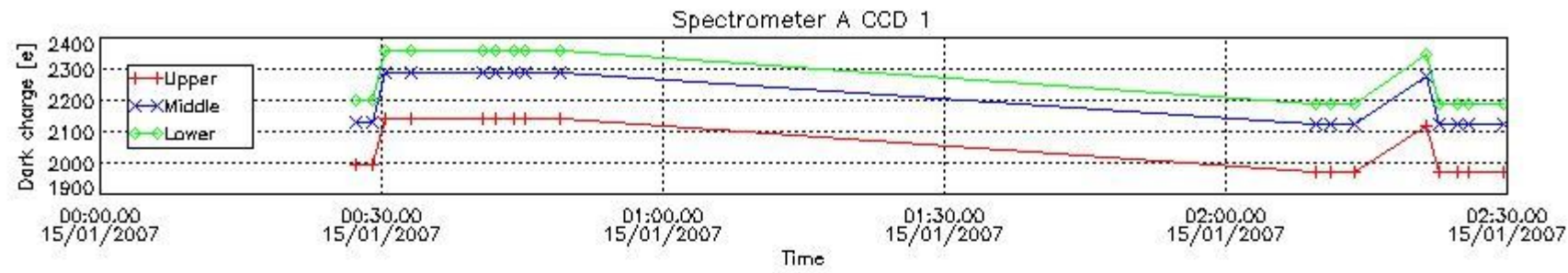
4. Overview of dark signal processing per product

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



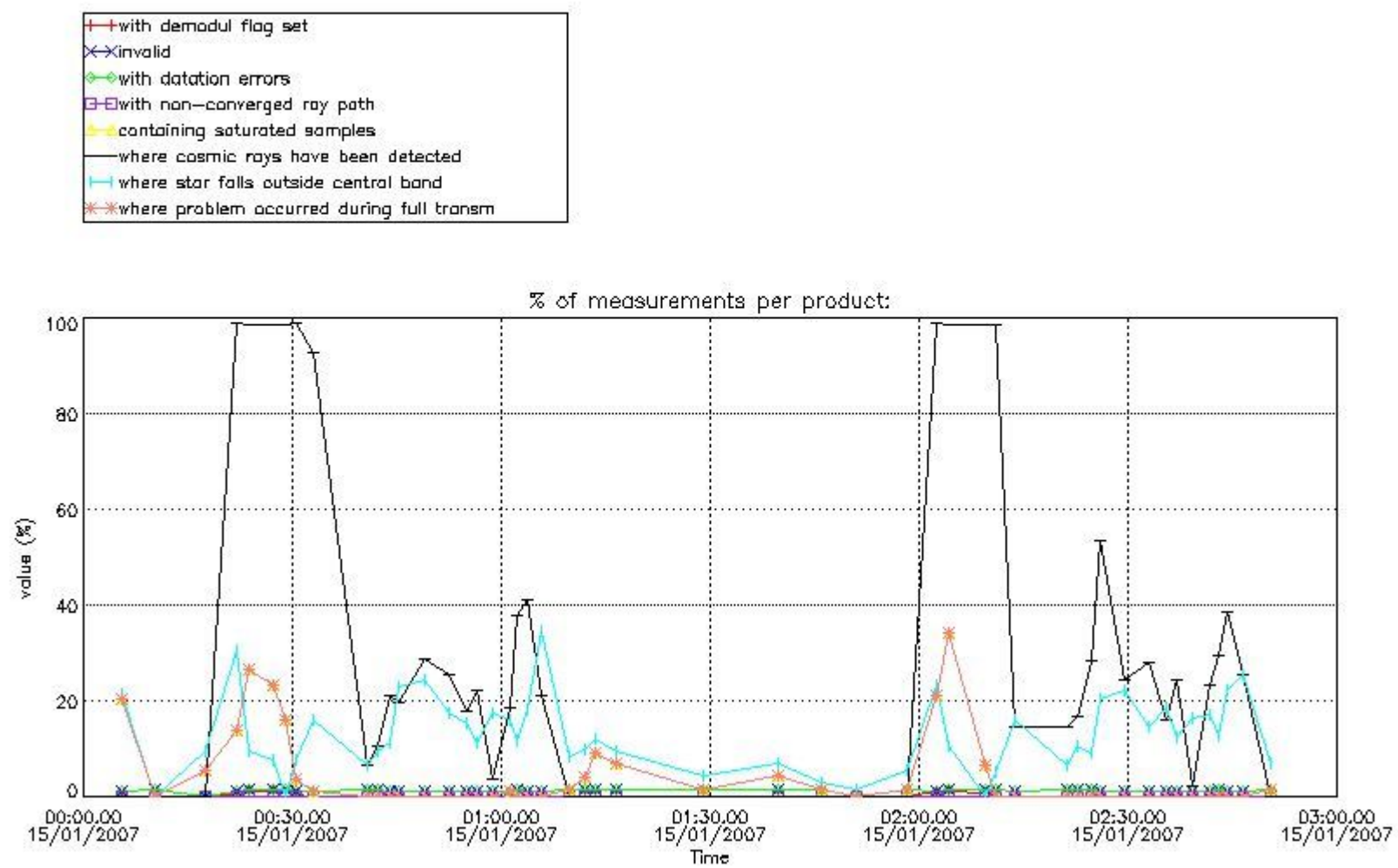
5. Demodulation flag and quality information monitoring

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.

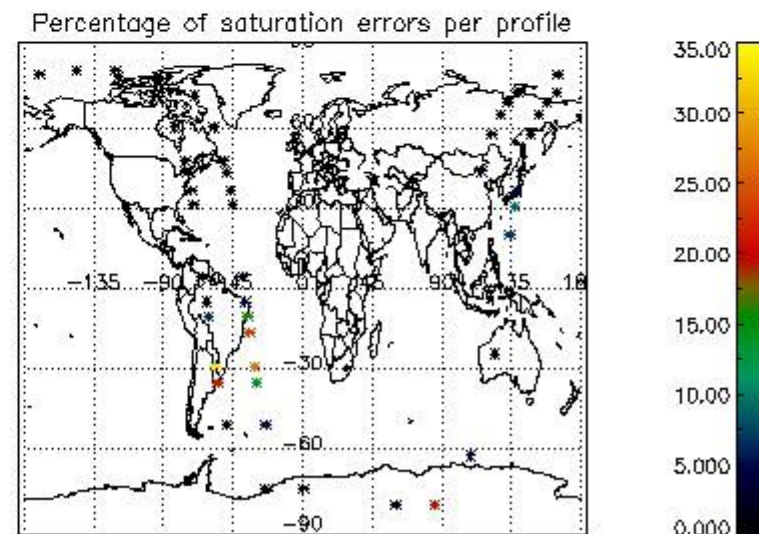
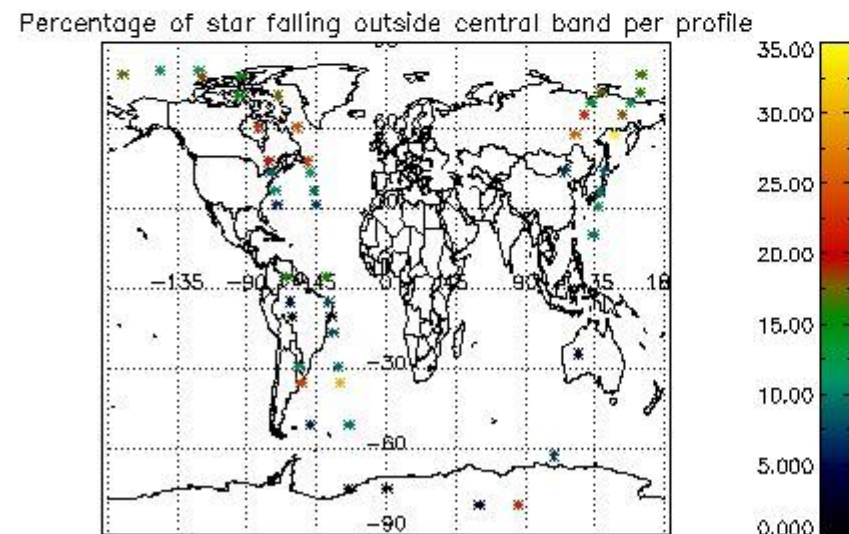
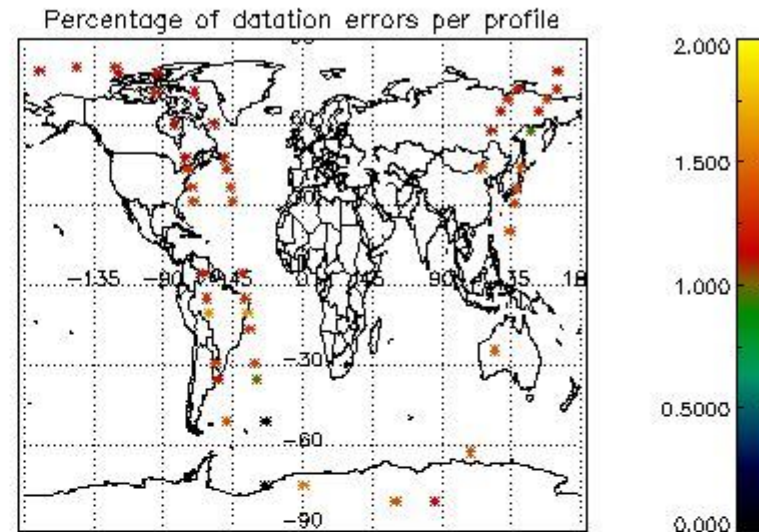
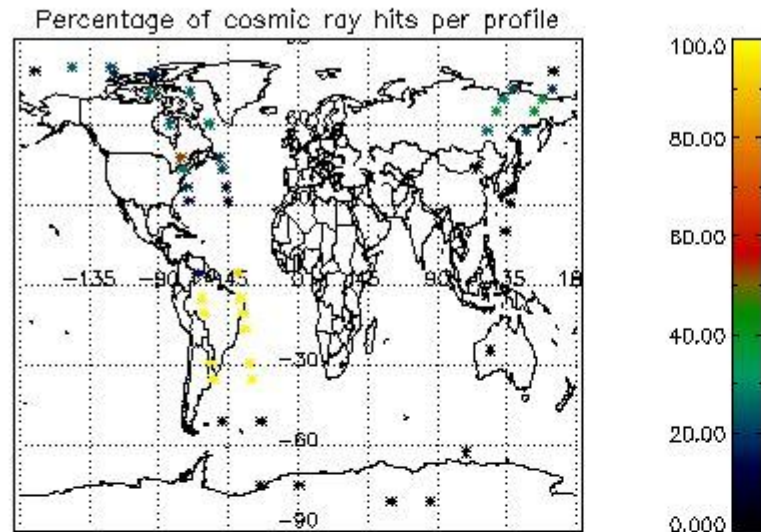
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.0000 %
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)



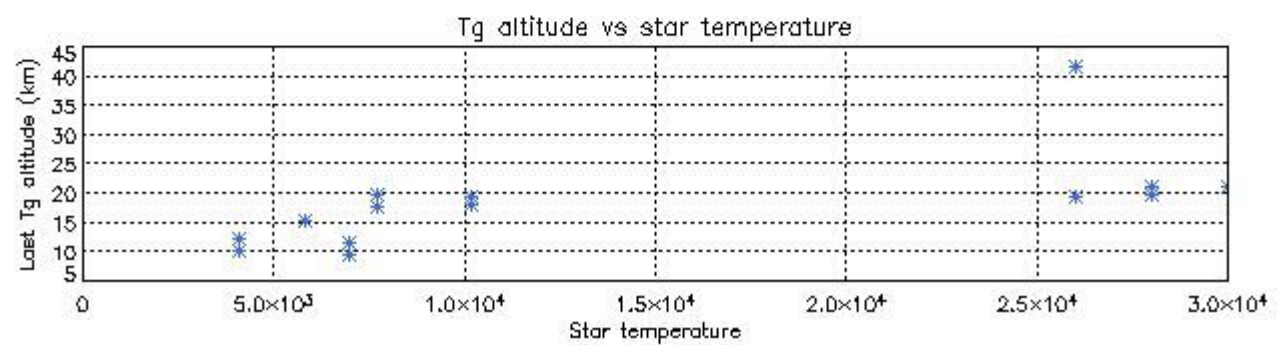
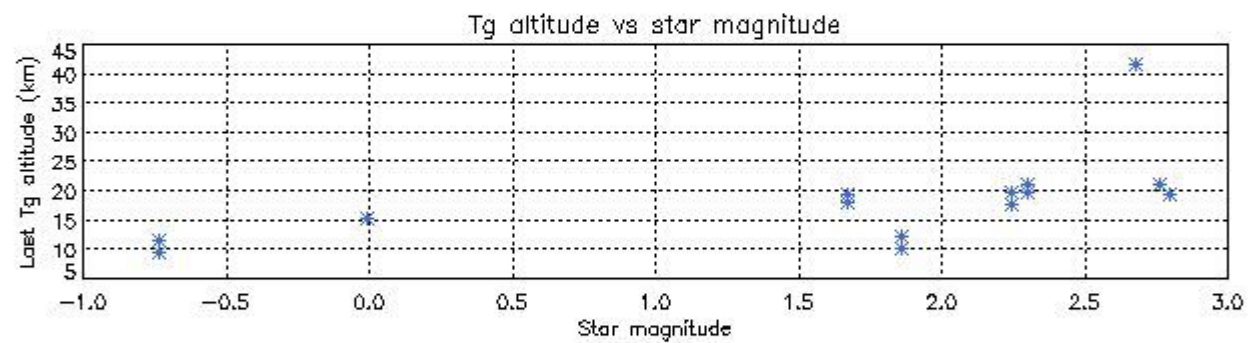
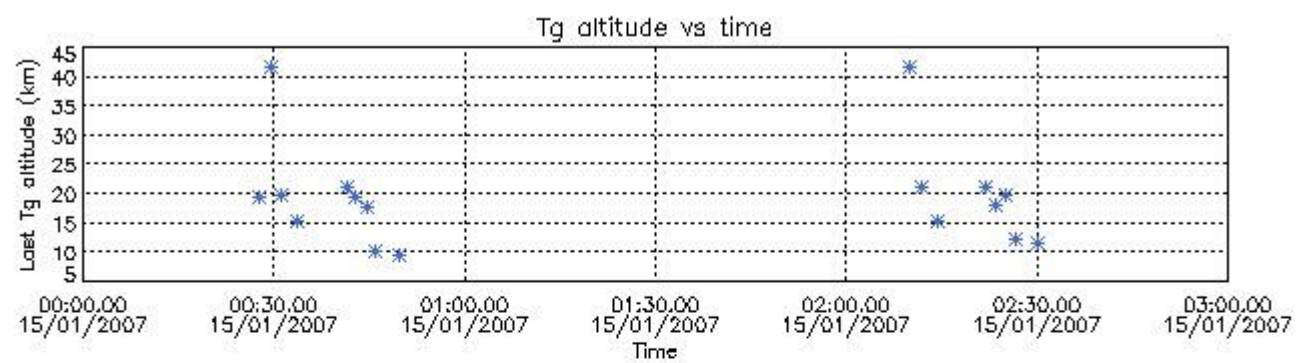
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	19.676	20.440	16.926
St. deviation:	9.1322	4.1897	0.80509
Maximum:	41.715	27.633	17.495
Minimum:	9.5928	11.219	16.356
Number of data:	17.000	13.000	2.0000

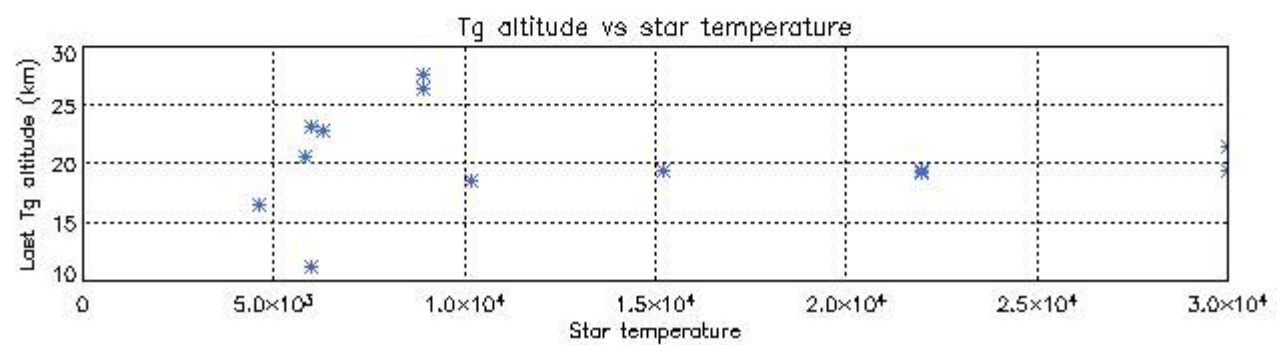
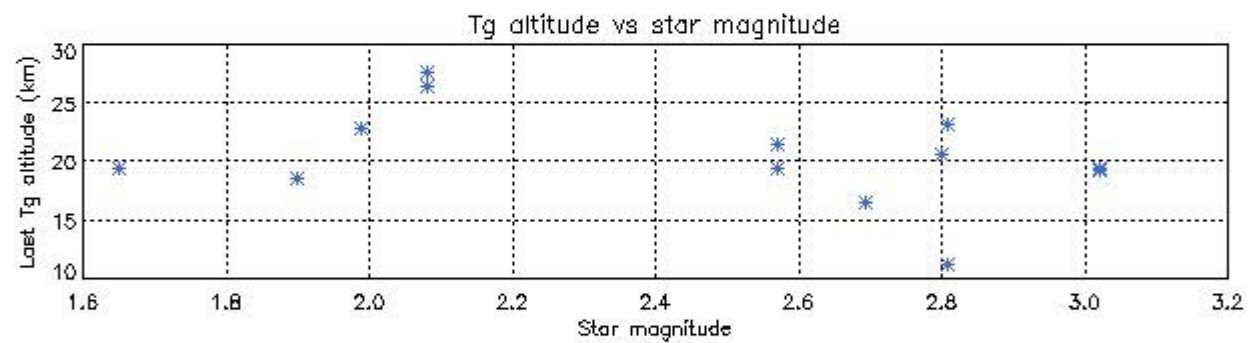
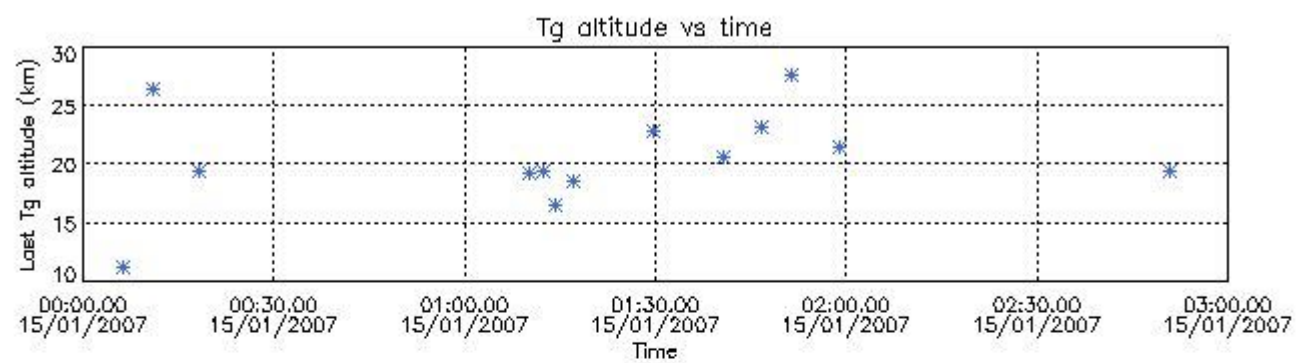
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



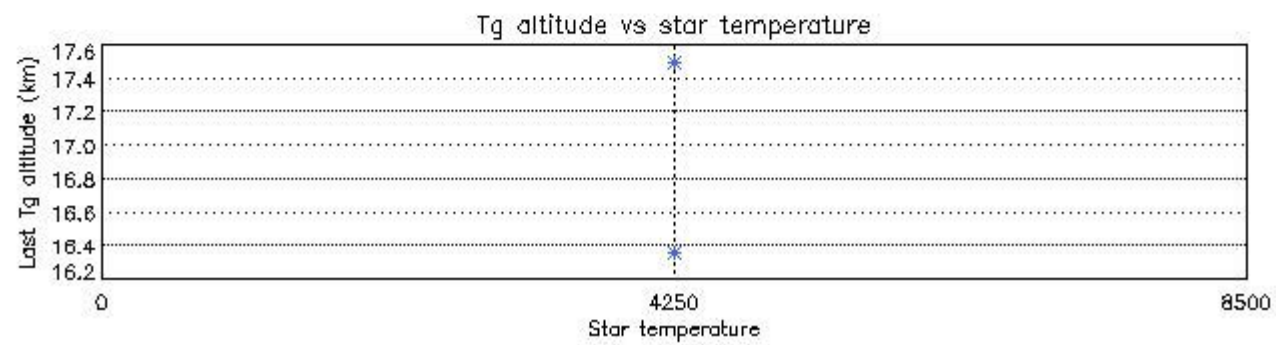
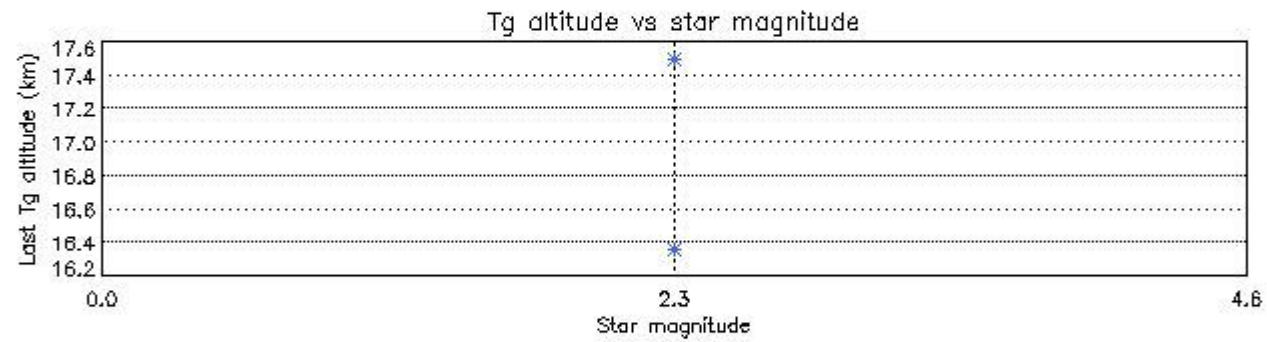
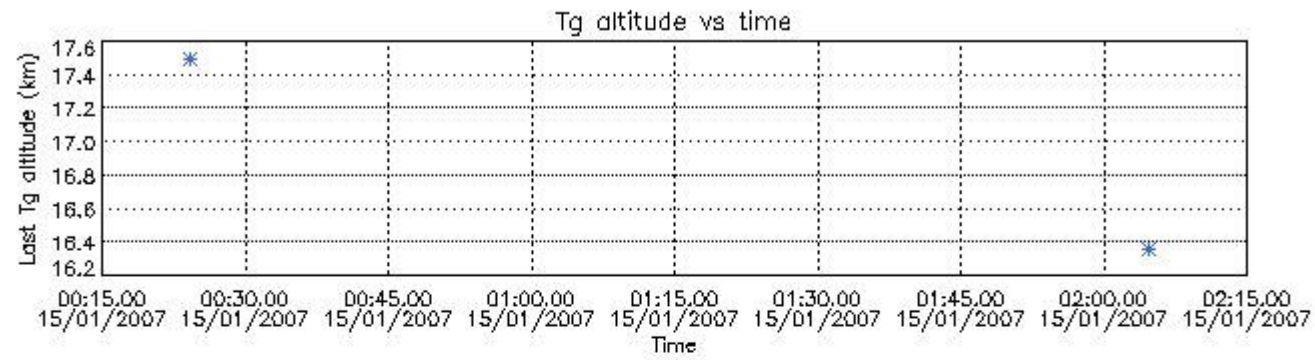
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

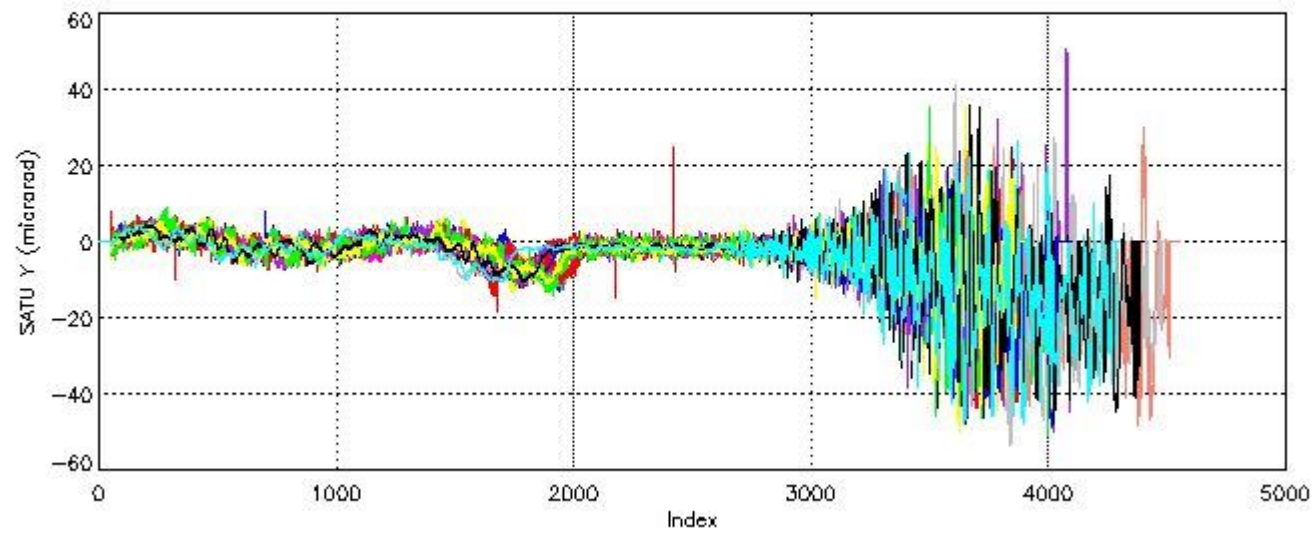
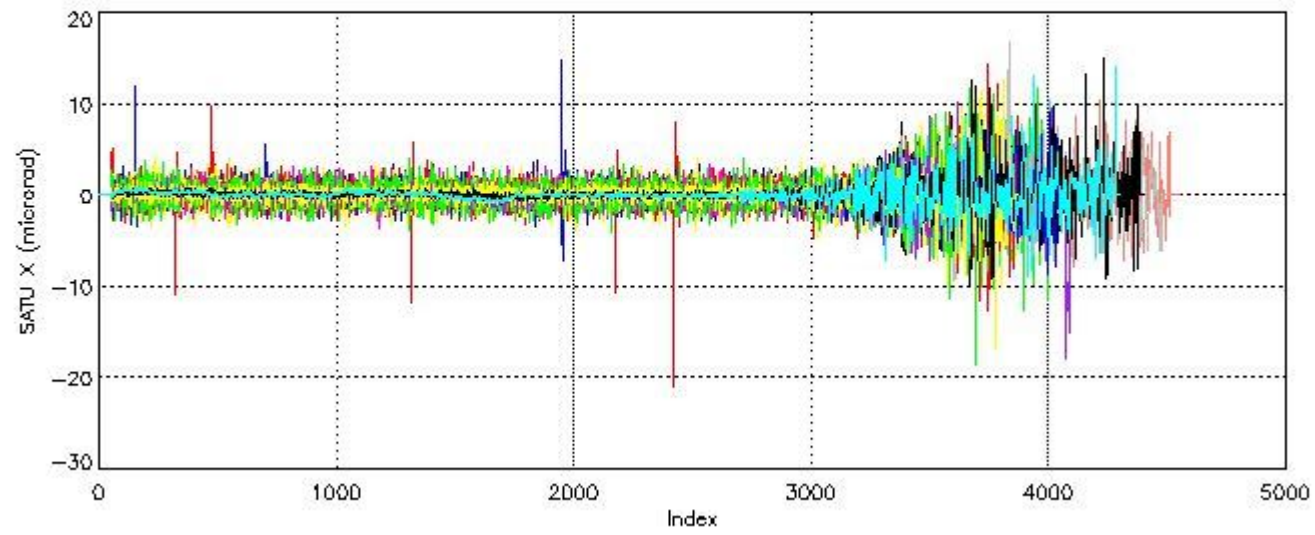


7. Star Acquisition and Tracking Unit (SATU)

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:	0.10030	-0.14416	-0.017461	-0.69014
St. deviation:	0.60966	2.3355	0.82877	2.3202
Maximum:	11.800	8.9000	5.3000	7.7000
Minimum:	-10.900	-10.200	-4.5000	-8.7000

Number of data:	15450.	15450.	10600.	10600.
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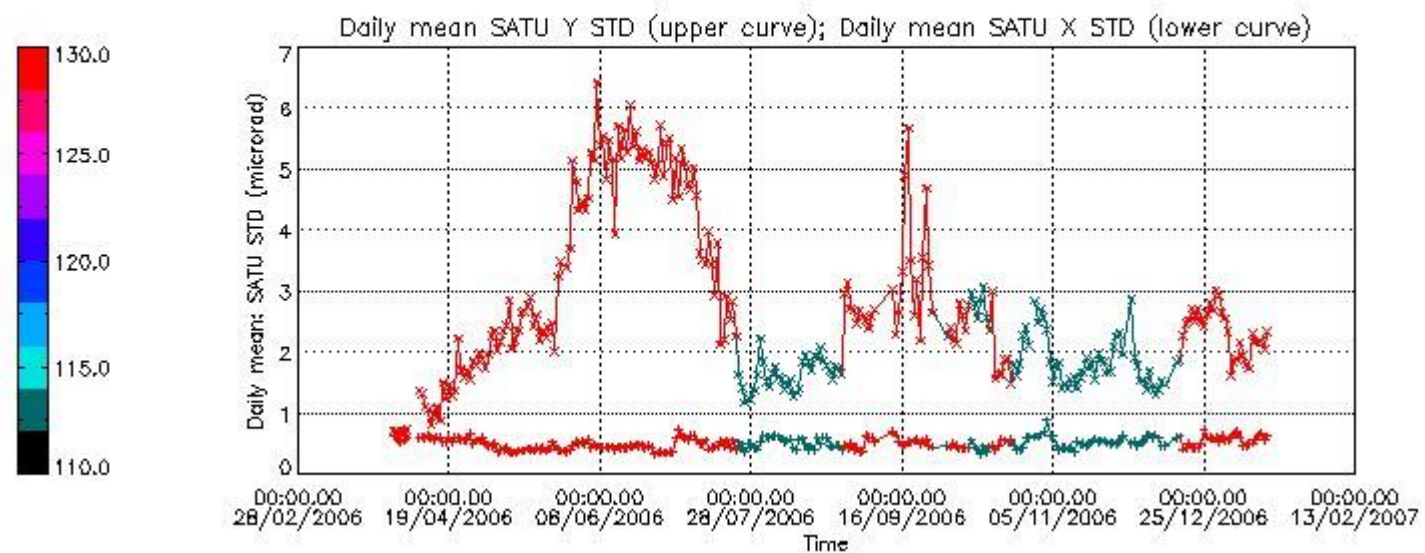
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

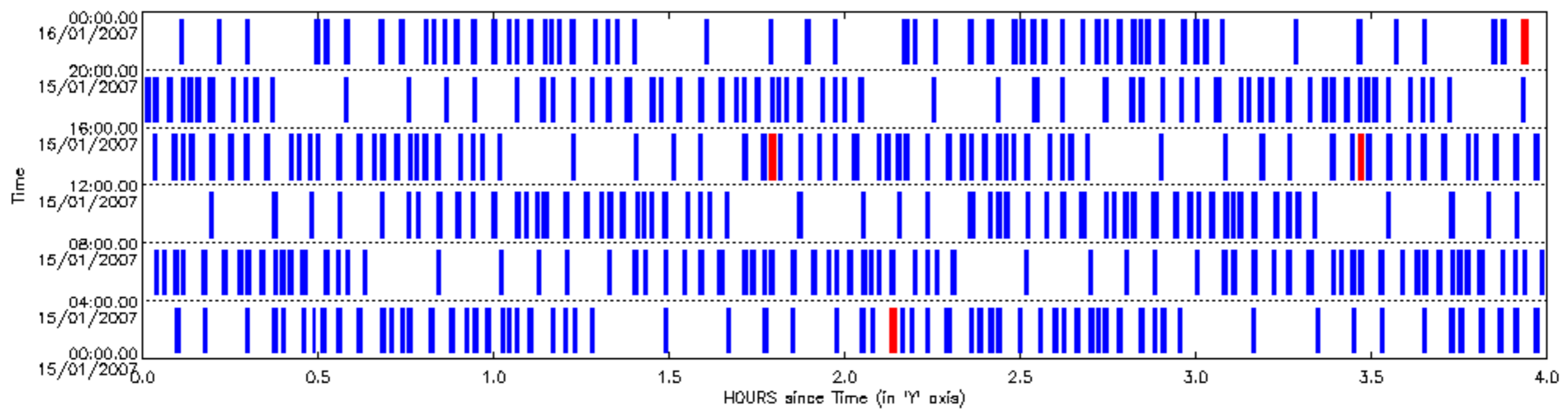
Lower curve: STD of SATU X axis

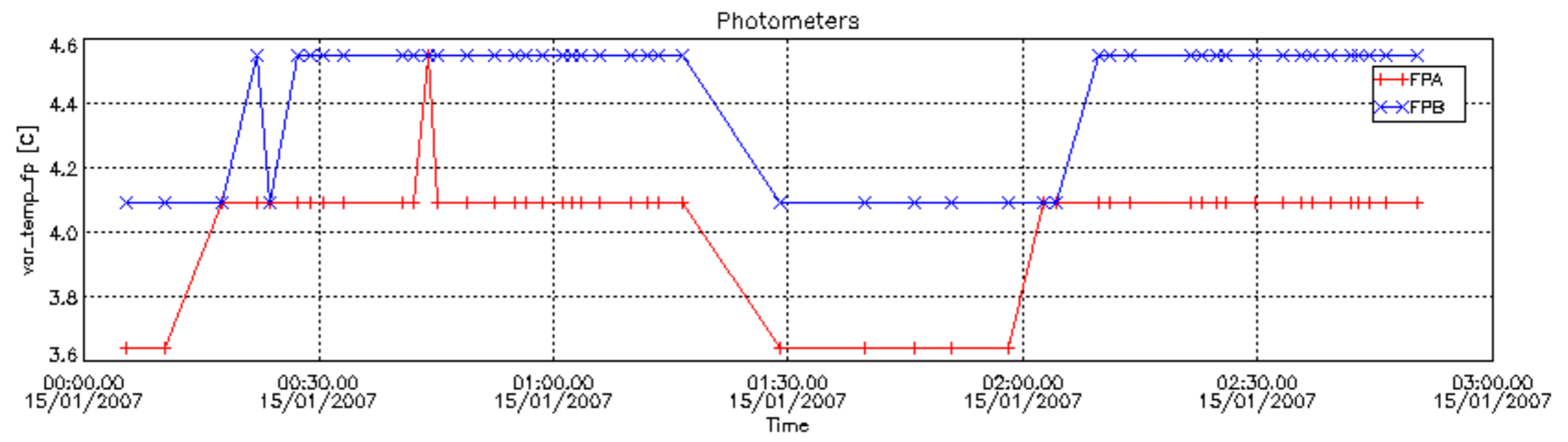
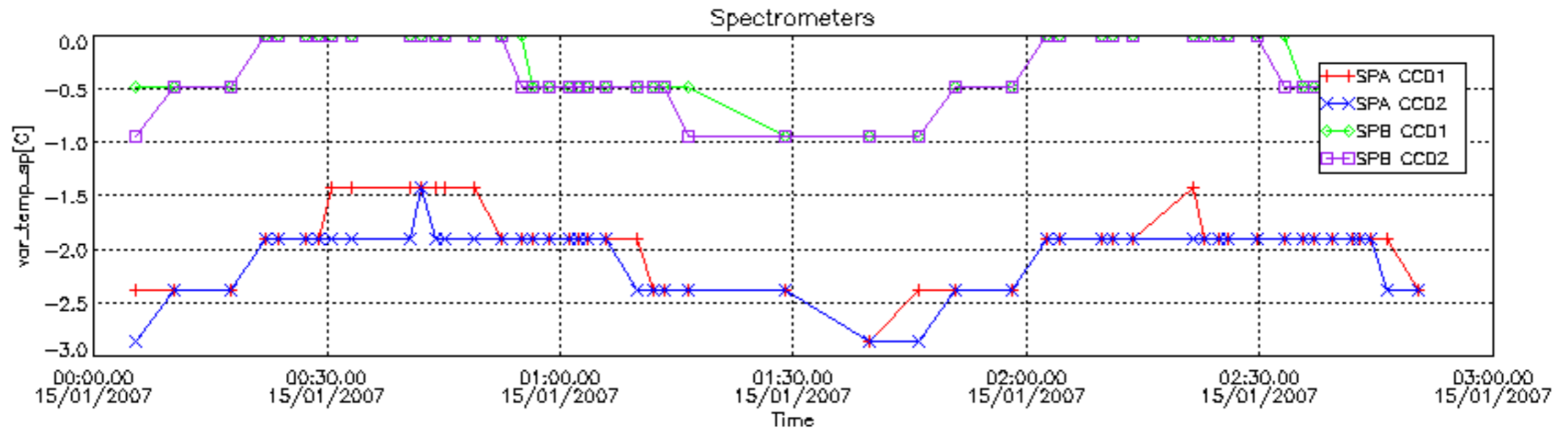


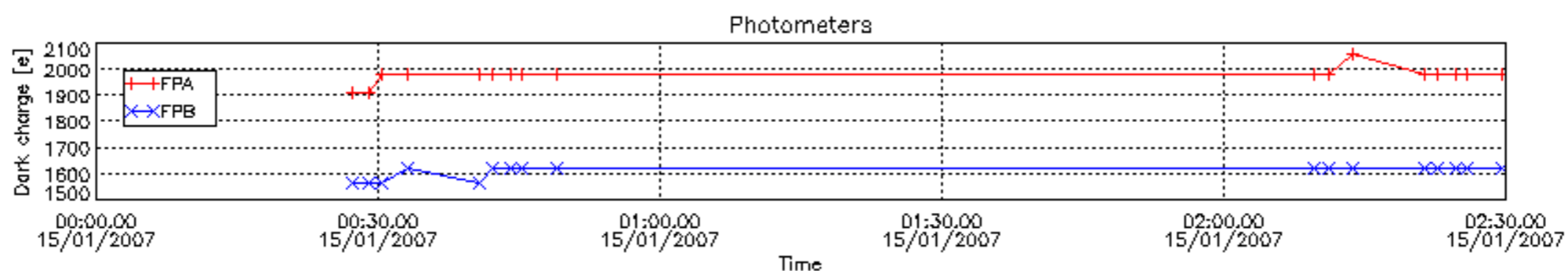
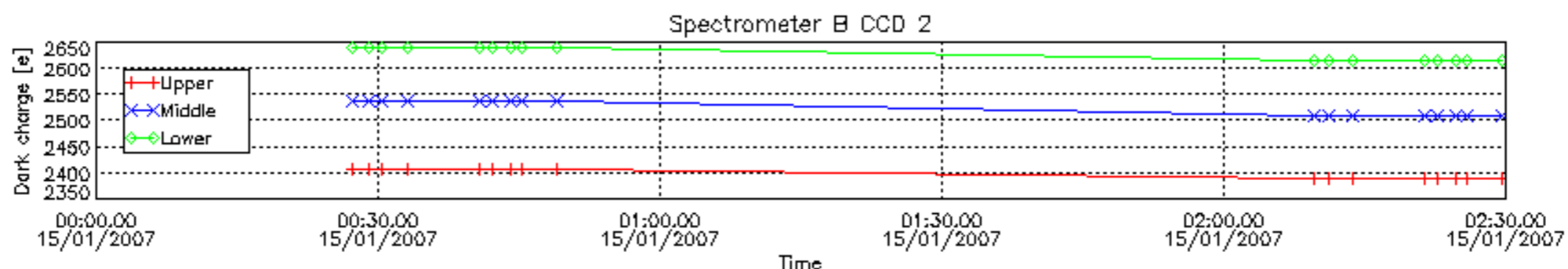
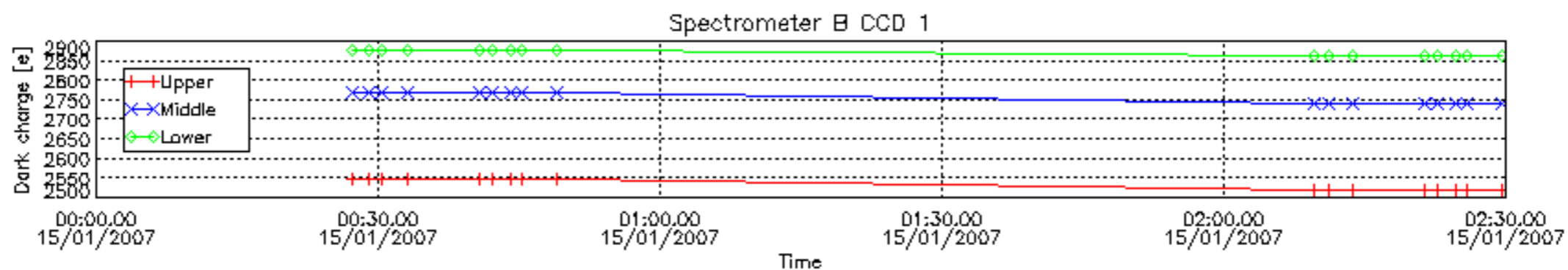
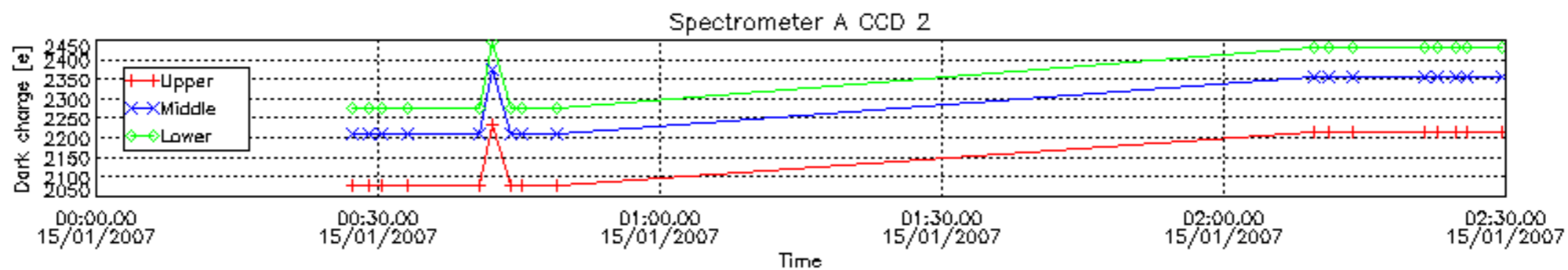
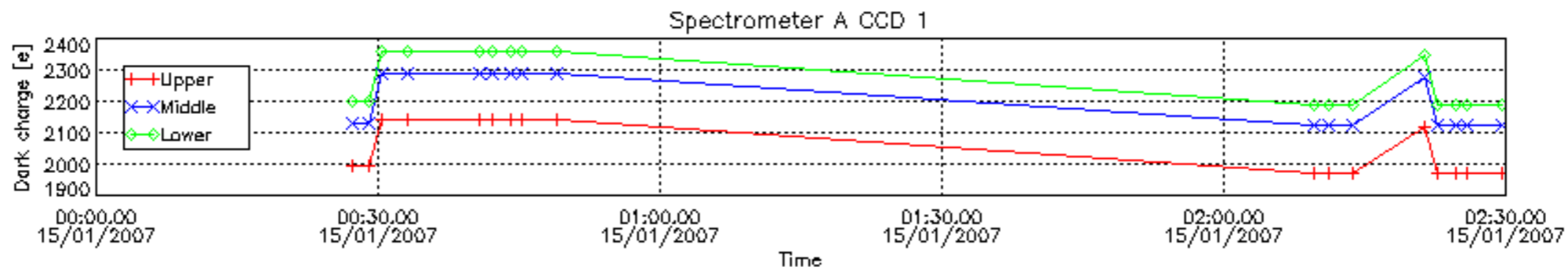
8. Auxiliary Data Files used for the production reported in section 2.4

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.

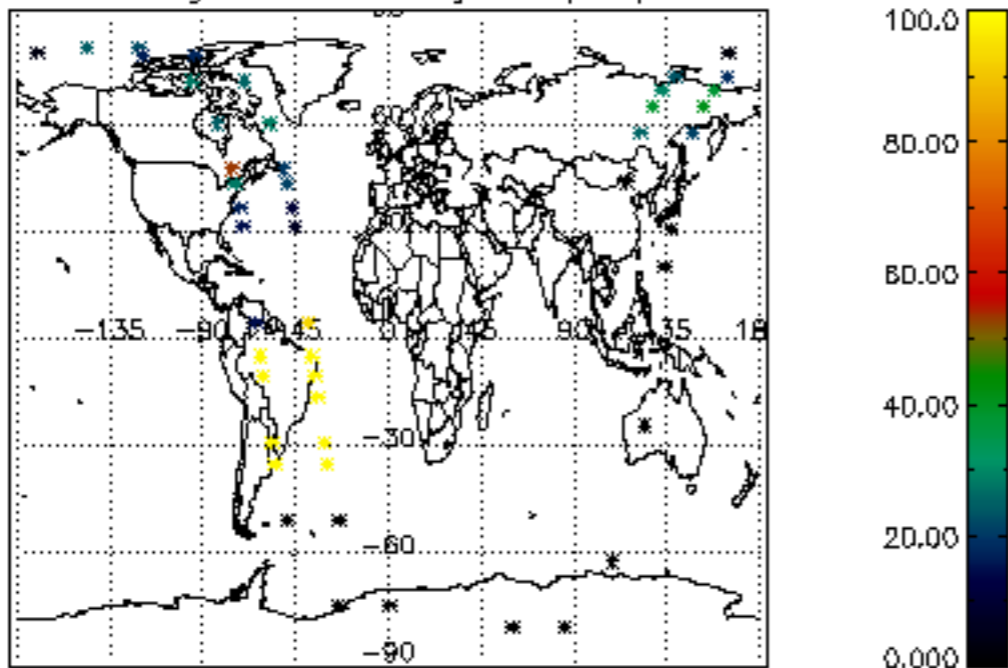
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	15-JAN-2007 00:05:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070105_103648_20070104_000000_20100101_000000	1	15-JAN-2007 00:05:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	15-JAN-2007 00:05:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-JAN-2007 00:05:29
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	15-JAN-2007 00:05:29
ECMWF_FILE	AUX_ECF_AXNECM20070114_061949_20070114_210000_20070115_090000	1	15-JAN-2007 00:05:29
OPTIONAL_ECMWF_FILE	MISSING	1	15-JAN-2007 00:05:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070114_205226_000057382054_00386_25490_2575.N1	1	15-JAN-2007 00:05:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070114_223323_000057382054_00387_25491_2576.N1	4	15-JAN-2007 00:22:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070115_001420_000057382054_00388_25492_2577.N1	31	15-JAN-2007 01:58:10



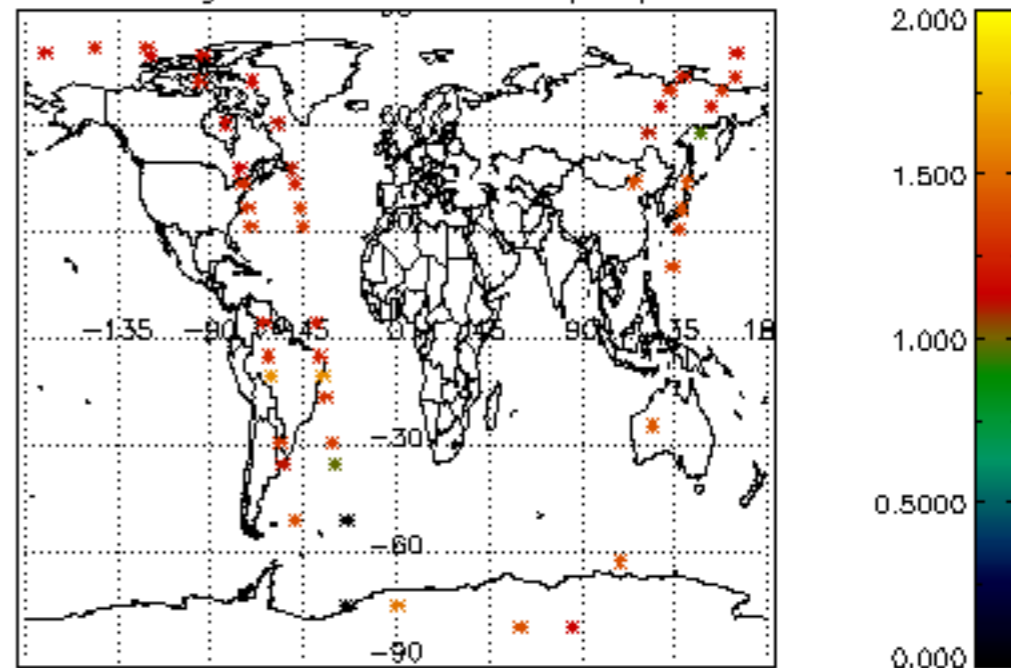




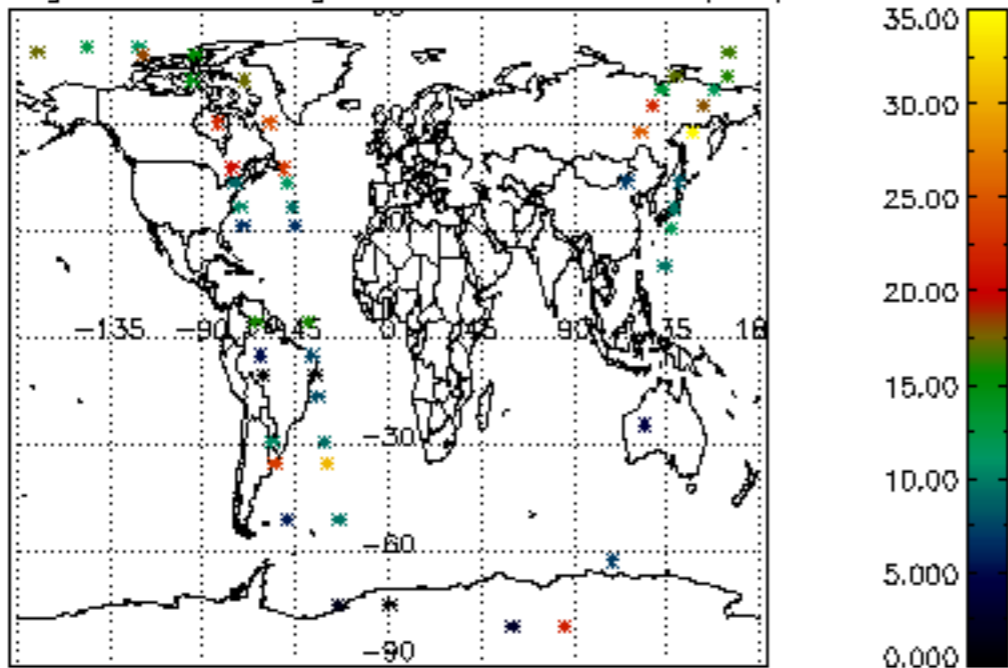
Percentage of cosmic ray hits per profile



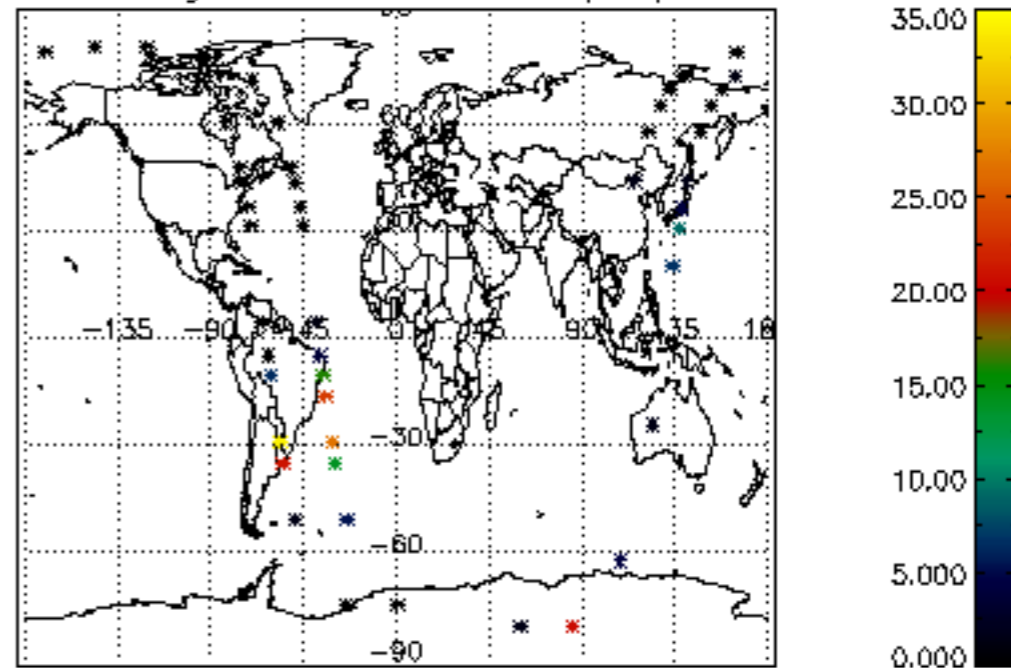
Percentage of datation errors per profile



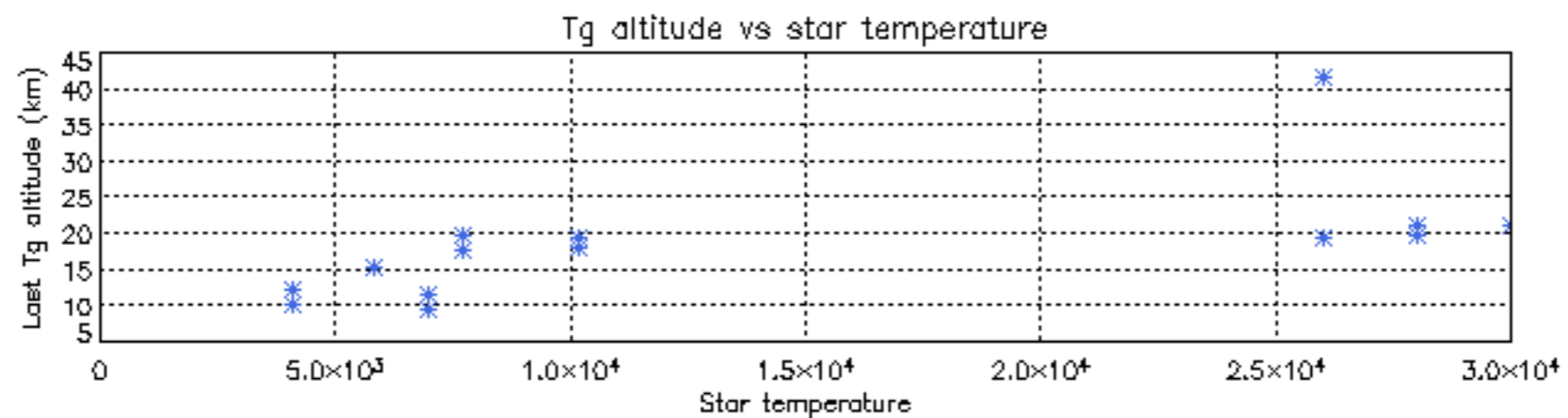
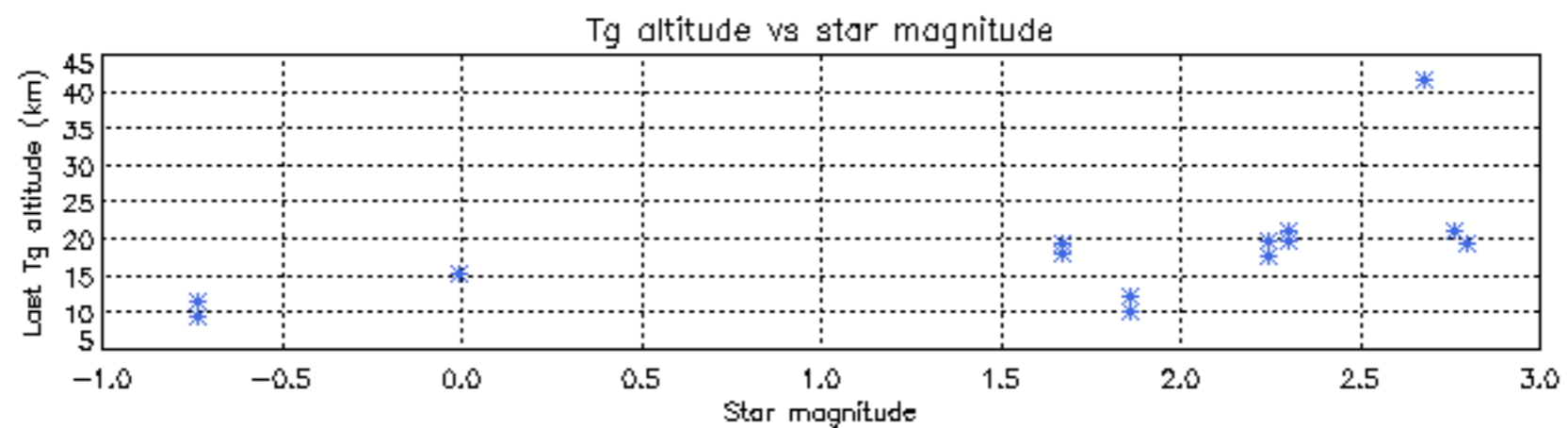
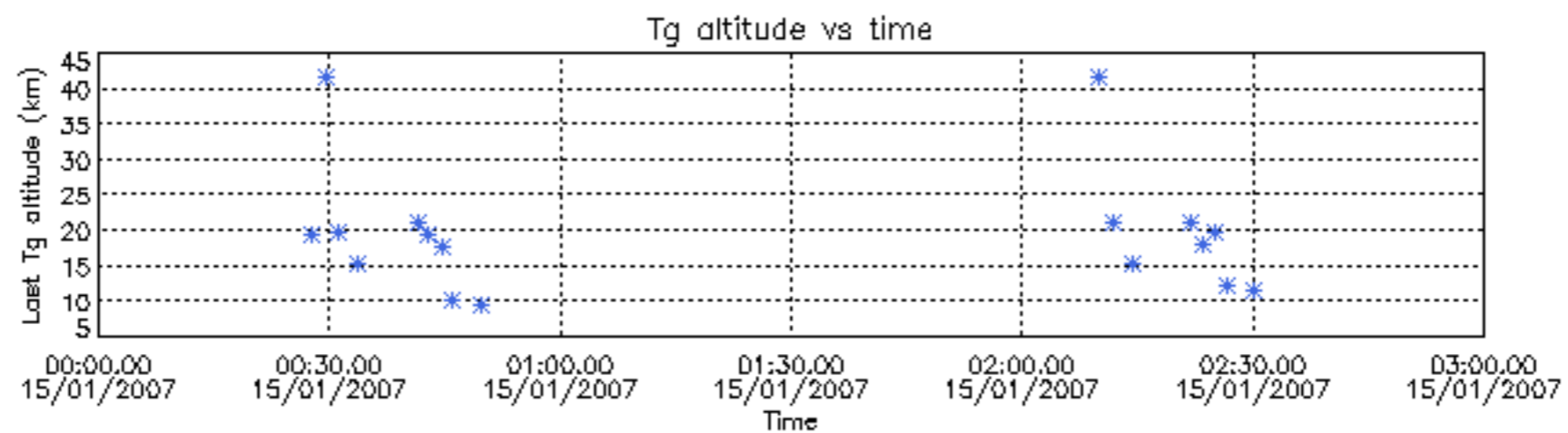
Percentage of star falling outside central band per profile



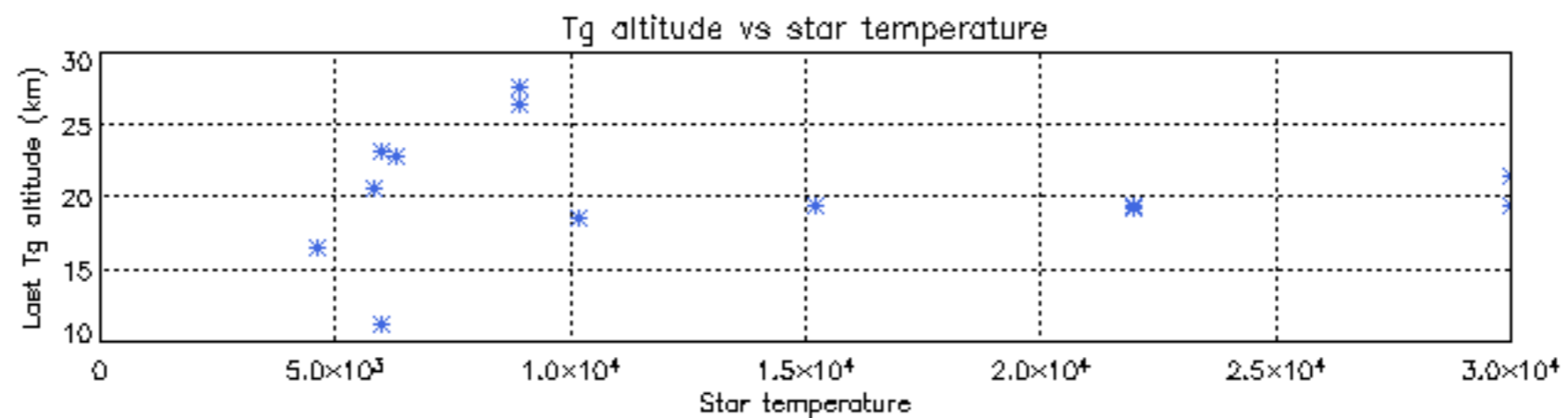
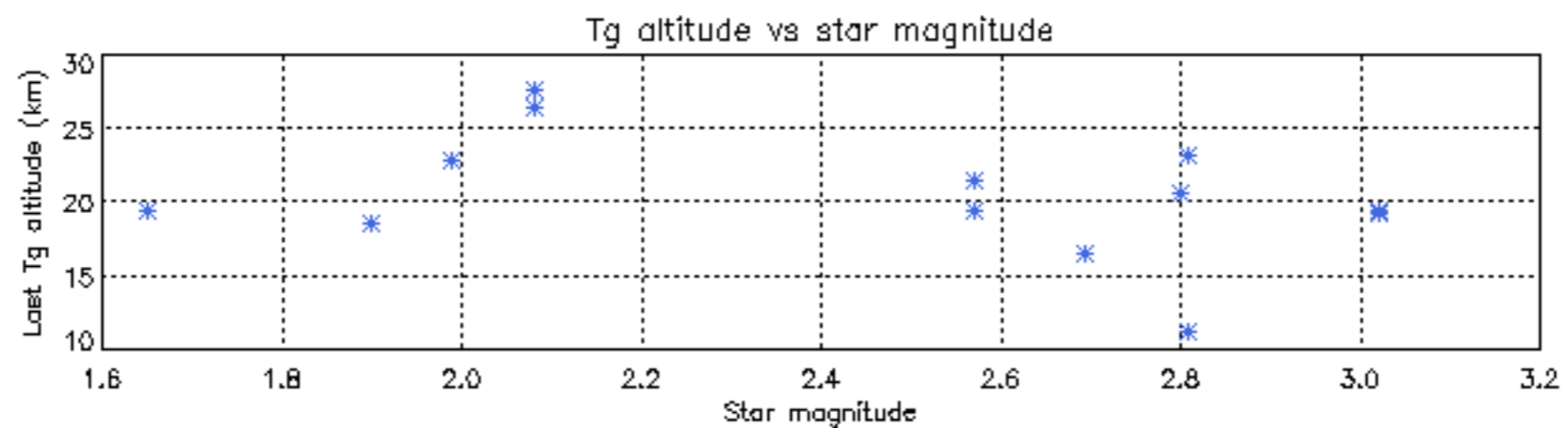
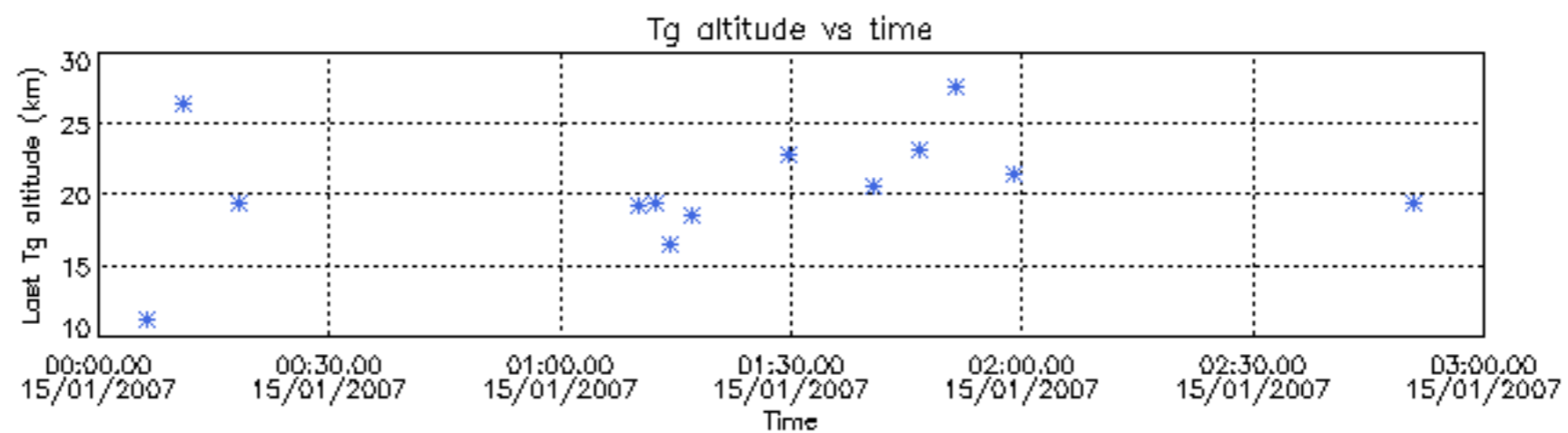
Percentage of saturation errors per profile



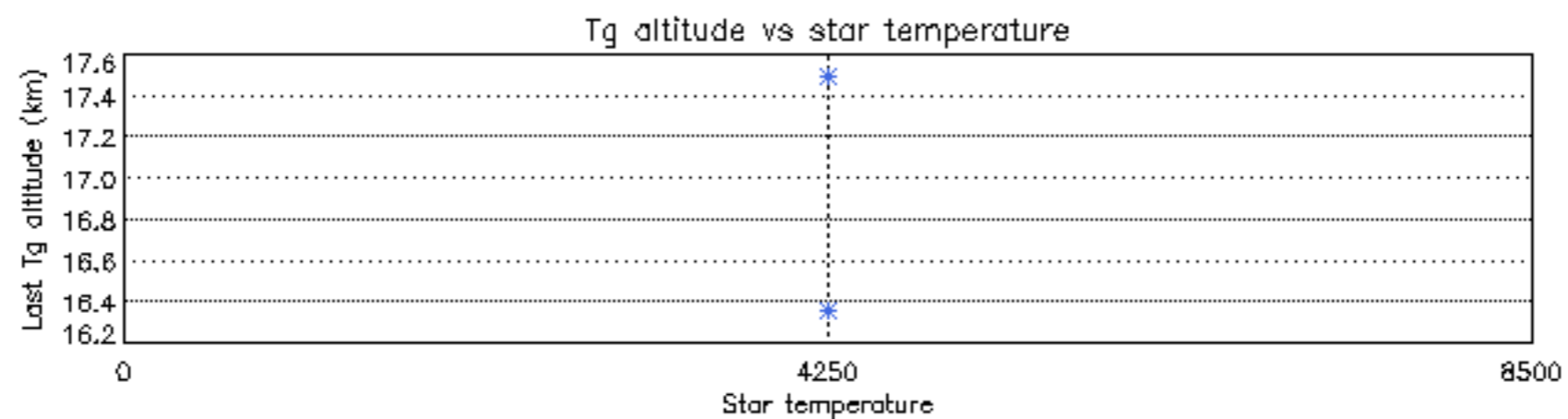
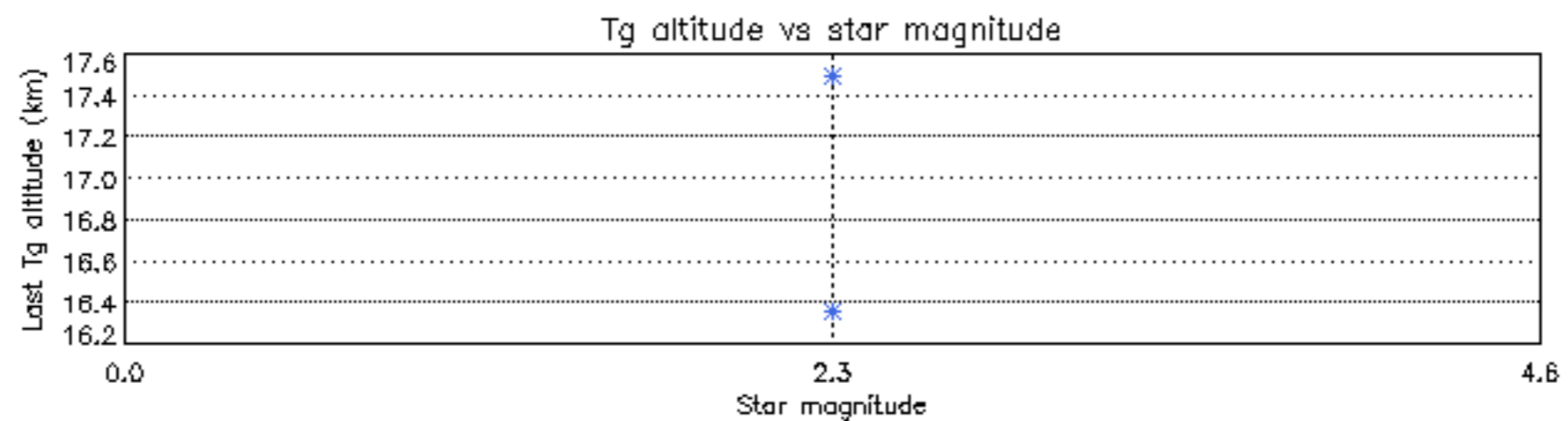
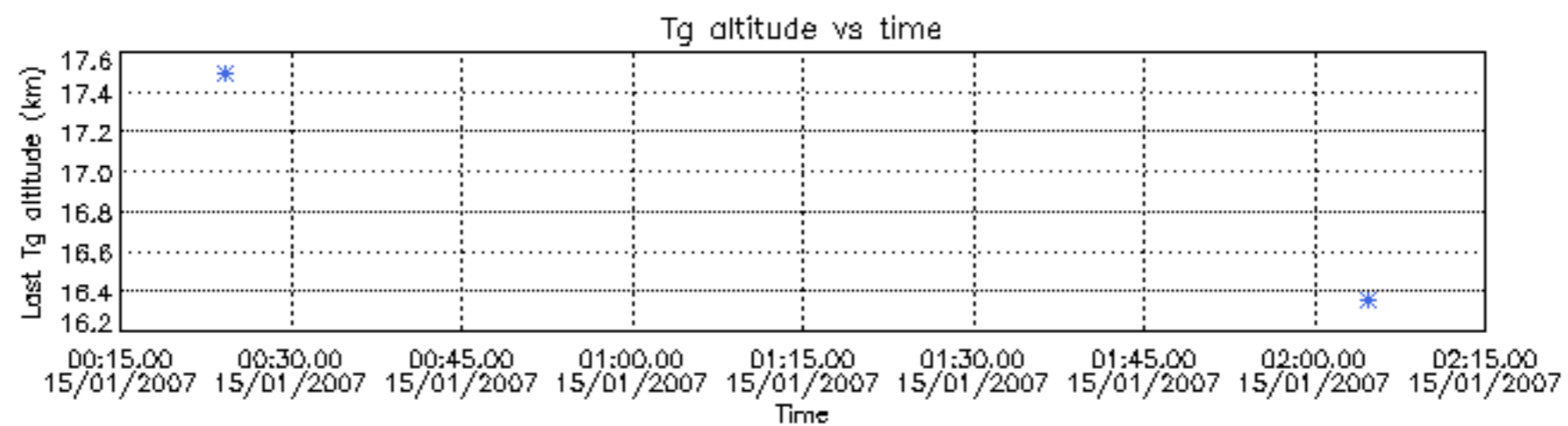
Tangent altitude at which the star is lost

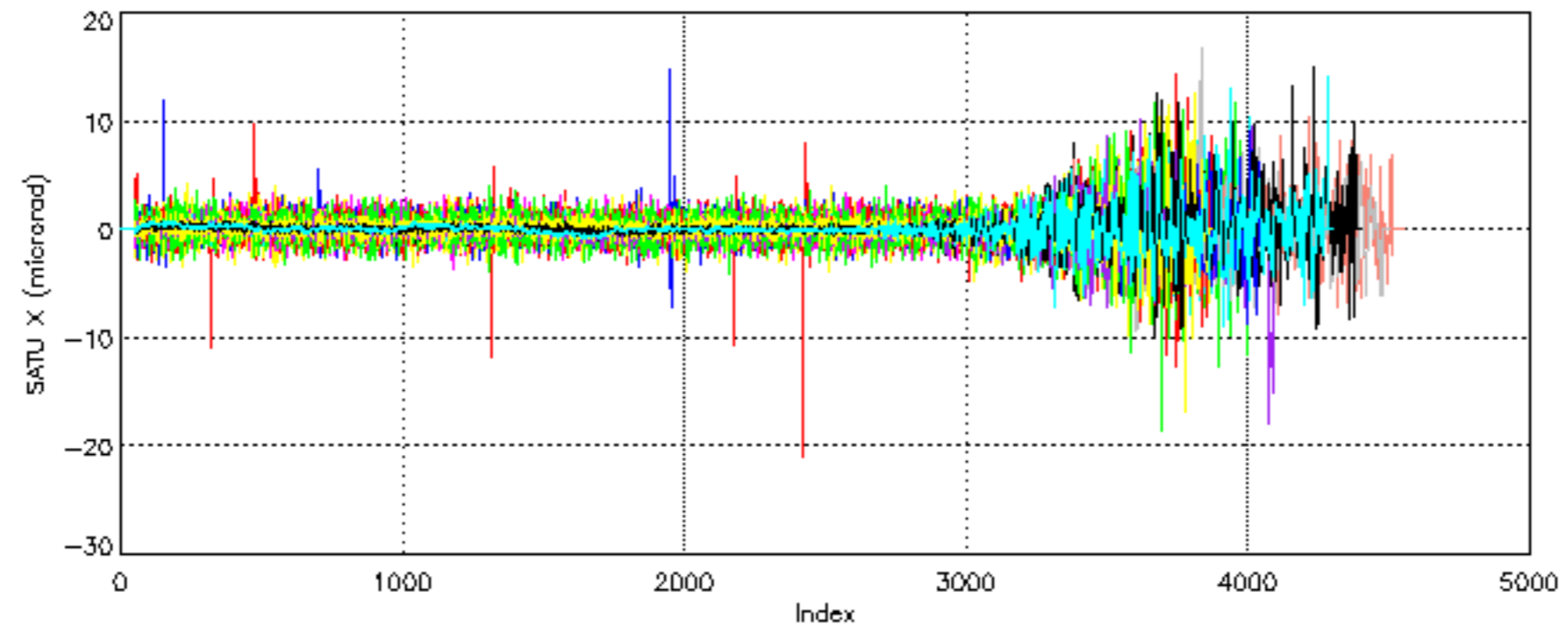


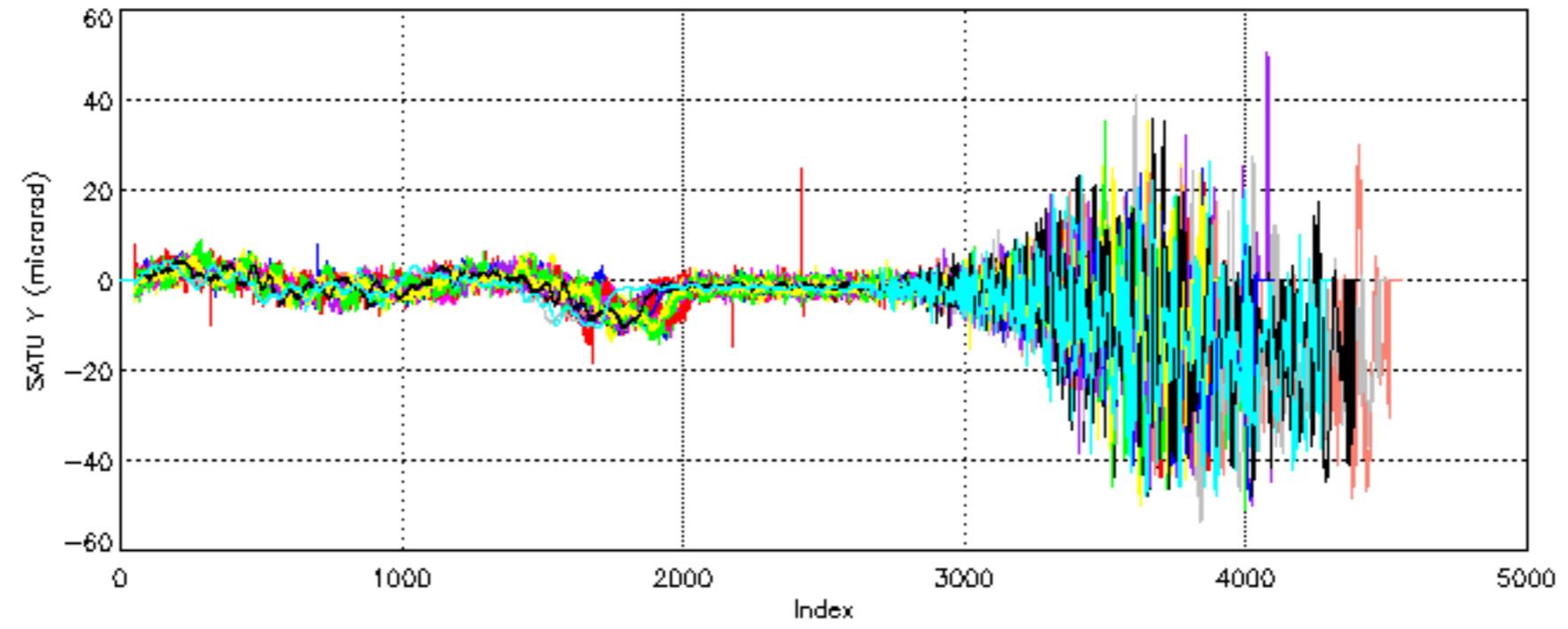
Tangent altitude at which the star is lost

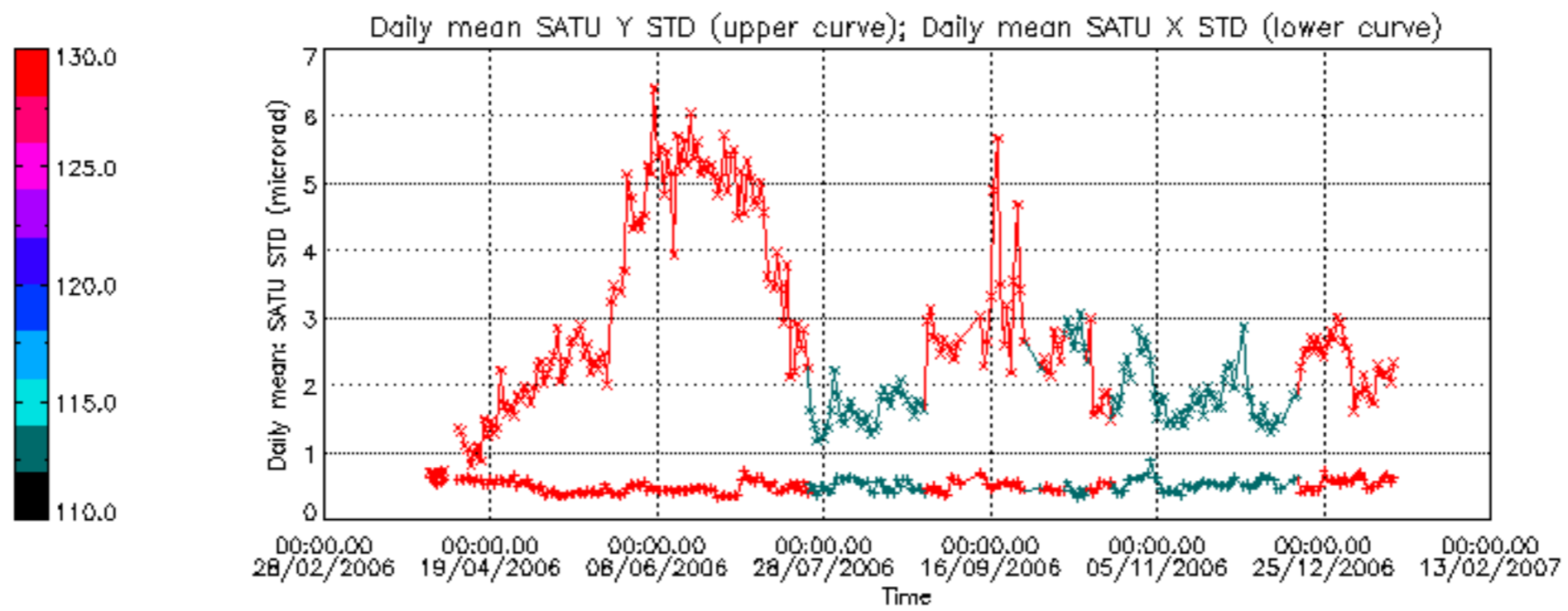


Tangent altitude at which the star is lost









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 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
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 17; 1340.5; 01-JAN-2007 03:15:07; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;25294
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 19; 1769.6; 01-JAN-2007 03:22:16; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25294
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 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
 8; -280.8; 01-JAN-2007 04:28:41; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25294
 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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 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
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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
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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
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18; 1172.8; 01-JAN-2007 06:33:31; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;25296
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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
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 9; 2692.6; 01-JAN-2007 12:00:38; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;25299
 10; 3423.3; 01-JAN-2007 12:12:49; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25299
 11; 3690.7; 01-JAN-2007 12:17:17; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;25299
 12; 3921.9; 01-JAN-2007 12:21:08; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25299
 13; 4422.7; 01-JAN-2007 12:29:29; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;25299
 14; 4546.5; 01-JAN-2007 12:31:32; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;25299
 15; 4891.6; 01-JAN-2007 12:37:17; Bright; 54.0; 102; 24Alp Ser ; 2.60; 4250;occ; 108; 0;25299
 16; 5196.0; 01-JAN-2007 12:42:22; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25299
 17; 5355.5; 01-JAN-2007 12:45:01; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;25299
 18; 5757.2; 01-JAN-2007 12:51:43; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;25299
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 22; 6267.6; 01-JAN-2007 13:00:13; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;25299
 23; 6468.8; 01-JAN-2007 13:03:35; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25299
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 27; 7016.0; 01-JAN-2007 13:12:42; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;25299
 28; 7210.1; 01-JAN-2007 13:15:56; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;25299
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 12; 3922.3; 01-JAN-2007 14:01:44; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;25300
 13; 4423.0; 01-JAN-2007 14:10:05; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;25300
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 16; 5196.4; 01-JAN-2007 14:22:58; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;25300
 17; 5356.1; 01-JAN-2007 14:25:38; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;25300
 18; 5757.7; 01-JAN-2007 14:32:19; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25300
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 6; 633.6; 01-JAN-2007 14:47:31; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;25301
 7; 736.1; 01-JAN-2007 14:49:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25301
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6; 3922.4; 01-JAN-2007 15:42:20; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25301
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8; 4547.1; 01-JAN-2007 15:52:45; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;25301
9; 4892.5; 01-JAN-2007 15:58:30; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;25301
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11; 5357.0; 01-JAN-2007 16:06:15; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;25301
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32; 5087.5; 13-JAN-2007 23:07:06; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25477
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16;	4077.0;	15-JAN-2007 21:47:01;	Bright;	33.5;	130;	23Bet Dra ;	2.80;	5800;occ;	67;	0;	25505
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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
14;	1609.3;	15-JAN-2007 22:46:29;	Dark ;	44.0;	1;	9Alp CMA ;	-1.44;	11000;occ;	88;	0;	25506
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16;	1829.1;	15-JAN-2007 22:50:09;	Dark ;	38.5;	125;	44Iot Ori ;	2.77;	30000;occ;	77;	0;	25506
17;	1906.5;	15-JAN-2007 22:51:26;	Dark ;	41.0;	30;	46Eps Ori ;	1.69;	30000;occ;	82;	0;	25506
18;	2039.4;	15-JAN-2007 22:53:39;	Dark ;	52.0;	14;	58Alp Ori ;	0.87;	3000;occ;	104;	0;	25506
19;	2276.3;	15-JAN-2007 22:57:36;	Bright;	35.5;	176;	23Zet Tau ;	3.02;	22000;occ;	71;	0;	25506
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21;	2501.2;	15-JAN-2007 23:01:21;	Bright;	36.5;	114;	3Iot Aur ;	2.69;	4600;occ;	73;	0;	25506
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7;	2414.4;	19-JAN-2007	10:49:50;	Bright;		36.0;	28;	12Bet Tau	;	1.65;	15200;occ;	72;	0;	25556
8;	2541.9;	19-JAN-2007	10:51:57;	Bright;		34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	25556
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11;	4081.2;	19-JAN-2007	11:17:37;	Bright;		36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	25556
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26;	7286.2;	19-JAN-2007	12:11:01;	Dark	;	44.5;	117;	Pi Pup	;	2.71;	3800;occ;	89;	0;	25556
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13; 432.8; 27-JAN-2007 09:25:03; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;25670
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 17; 1062.3; 27-JAN-2007 09:35:33; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;25670
 18; 1188.1; 27-JAN-2007 09:37:39; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;25670
 19; 1275.0; 27-JAN-2007 09:39:05; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;25670
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 21; 1505.0; 27-JAN-2007 09:42:56; Dark ; 37.0; 179; 240mi2CMA ; 3.03; 24000;occ; 74; 0;25670
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 22; 7098.4; 27-JAN-2007 11:16:09; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;25670
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 13; 5528.7; 27-JAN-2007 12:30:35; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;25671
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22; 6944.2; 27-JAN-2007 14:34:46; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;25672
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5; 2683.1; 28-JAN-2007 09:30:57; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;25684
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9; 4782.4; 28-JAN-2007 10:05:56; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;25684
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12; 5600.6; 28-JAN-2007 10:19:34; Dark ; 38.5; 25; 35Lam Sco ; 1.62; 28000;occ; 77; 0;25684
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 26; 7460.7; 28-JAN-2007 10:50:34; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;25684
 27; 7543.5; 28-JAN-2007 10:51:57; Dark ; 36.0; 179; 240mi2CMA ; 3.03; 24000;occ; 72; 0;25684
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23; 6479.3; 28-JAN-2007 17:16:37; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;25688
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 29; 6949.9; 28-JAN-2007 19:05:03; Dark ; 36.5; 46; Del Vel ; 1.95; 10600;occ; 73; 0;25689

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 27; 6843.5; 28-JAN-2007 20:43:53; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;25690

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 28; 4911.4; 28-JAN-2007 23:32:53; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;25692
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 15; 4914.7; 29-JAN-2007 17:59:31; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;25703
 16; 5297.0; 29-JAN-2007 18:05:53; Dark ; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;25703
 17; 5606.2; 29-JAN-2007 18:11:03; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;25703
 18; 5695.9; 29-JAN-2007 18:12:32; Dark ; 39.5; 40; The Sco ; 1.86; 7100;occ; 79; 0;25703
 19; 5809.8; 29-JAN-2007 18:14:26; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;25703
 20; 5904.1; 29-JAN-2007 18:16:01; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;25703
 21; 6114.8; 29-JAN-2007 18:19:31; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;25703
 22; 6211.9; 29-JAN-2007 18:21:08; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;25703
 23; 6369.9; 29-JAN-2007 18:23:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25703
 24; 6487.4; 29-JAN-2007 18:25:44; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;25703
 25; 6709.9; 29-JAN-2007 18:29:26; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25703
 26; 6848.1; 29-JAN-2007 18:31:45; Dark ; 37.0; 71; Iot Car ; 2.25; 7700;occ; 74; 0;25703
 27; 6954.2; 29-JAN-2007 18:33:31; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;25703

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 9; 2303.7; 29-JAN-2007 18:56:36; Bright; 37.0; 151; 13Mu Gem ; 2.89; 3000;occ; 74; 0;25704
 10; 2560.2; 29-JAN-2007 19:00:53; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;25704
 11; 2686.6; 29-JAN-2007 19:02:59; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;25704
 12; 3427.5; 29-JAN-2007 19:15:20; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;25704
 13; 4098.4; 29-JAN-2007 19:26:31; Bright; 38.5; 69; 33Gam Dra ; 2.23; 3800;occ; 77; 0;25704
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 16; 4915.1; 29-JAN-2007 19:40:08; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;25704
 17; 5297.3; 29-JAN-2007 19:46:30; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;25704
 18; 5606.4; 29-JAN-2007 19:51:39; Dark ; 37.0; 25; 35Lam Sco ; 1.62; 28000;occ; 74; 0;25704
 19; 5696.1; 29-JAN-2007 19:53:09; Dark ; 40.5; 40; The Sco ; 1.86; 7100;occ; 81; 0;25704

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 22; 6115.1; 29-JAN-2007 20:00:08; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;25704
 23; 6212.4; 29-JAN-2007 20:01:45; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;25704
 24; 6370.2; 29-JAN-2007 20:04:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25704
 25; 6487.9; 29-JAN-2007 20:06:20; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;25704
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 27; 6848.5; 29-JAN-2007 20:12:21; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;25704
 28; 6954.5; 29-JAN-2007 20:14:07; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;25704

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 6; 178.0; 30-JAN-2007 01:03:34; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;25708
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 12; 1072.3; 30-JAN-2007 01:18:28; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;25708
 13; 1197.6; 30-JAN-2007 01:20:34; Dark ; 39.5; 70; Zet Pup ; 2.25; 39000;occ; 79; 0;25708
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 15; 1428.7; 30-JAN-2007 01:24:25; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;25708
 16; 1511.3; 30-JAN-2007 01:25:47; Dark ; 37.0; 179; 240mi2CMA ; 3.03; 24000;occ; 74; 0;25708
 17; 1640.5; 30-JAN-2007 01:27:57; Dark ; 48.0; 1; 9Alp CMA ;-1.44; 11000;occ; 96; 0;25708
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 19; 2195.2; 30-JAN-2007 01:37:11; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;25708
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 21; 2561.0; 30-JAN-2007 01:43:17; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;25708
 22; 2687.0; 30-JAN-2007 01:45:23; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;25708
 23; 3427.4; 30-JAN-2007 01:57:44; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;25708
 24; 4098.9; 30-JAN-2007 02:08:55; Bright; 33.5; 69; 33Gam Dra ; 2.23; 3800;occ; 67; 0;25708
 25; 4300.6; 30-JAN-2007 02:12:17; Bright; 33.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 66; 0;25708
 26; 4788.6; 30-JAN-2007 02:20:25; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;25708
 27; 4916.1; 30-JAN-2007 02:22:32; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;25708

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 12; 919.6; 30-JAN-2007 02:56:32; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;25709
 13; 1072.7; 30-JAN-2007 02:59:05; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;25709
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 21; 2304.4; 30-JAN-2007 03:19:36; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;25709
 22; 2561.1; 30-JAN-2007 03:23:53; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;25709
 23; 2687.1; 30-JAN-2007 03:25:59; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25709
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 3; -1246.9; 30-JAN-2007 04:01:01; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;25709
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13; 454.6; 30-JAN-2007 04:29:23; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;25710
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8; -224.5; 30-JAN-2007 05:58:39; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;25710
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23; 2046.8; 30-JAN-2007 06:36:31; Dark ; 40.0; 153; 3Bet CMI ; 2.89; 13100;occ; 80; 0;25711
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8; -224.5; 30-JAN-2007 07:39:16; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;25711
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