

GOMOS Daily Report 14-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	16JAN2007 05:32:51
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (14JAN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (15JAN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

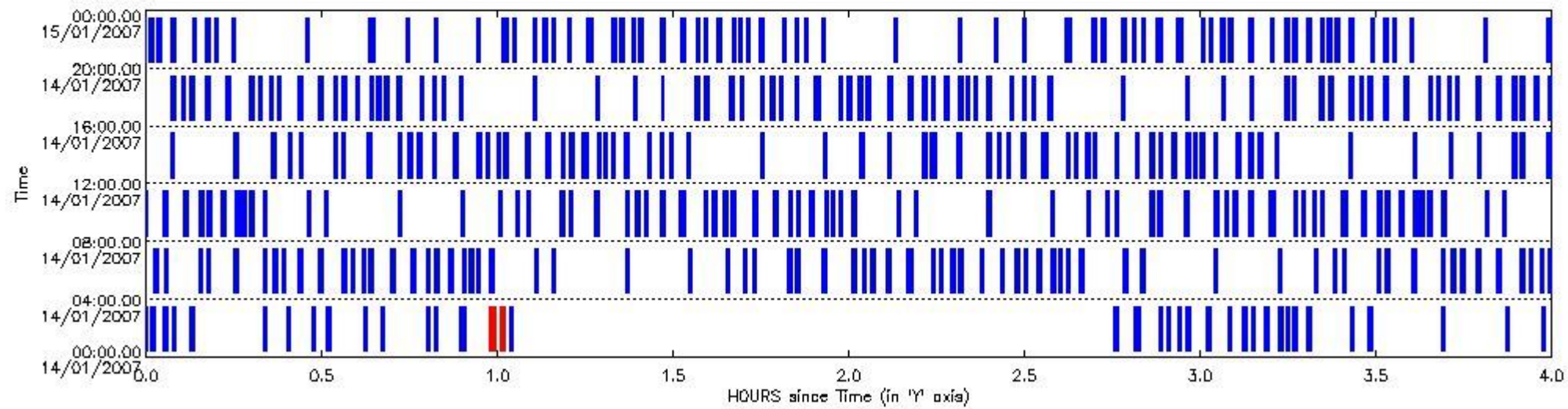
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

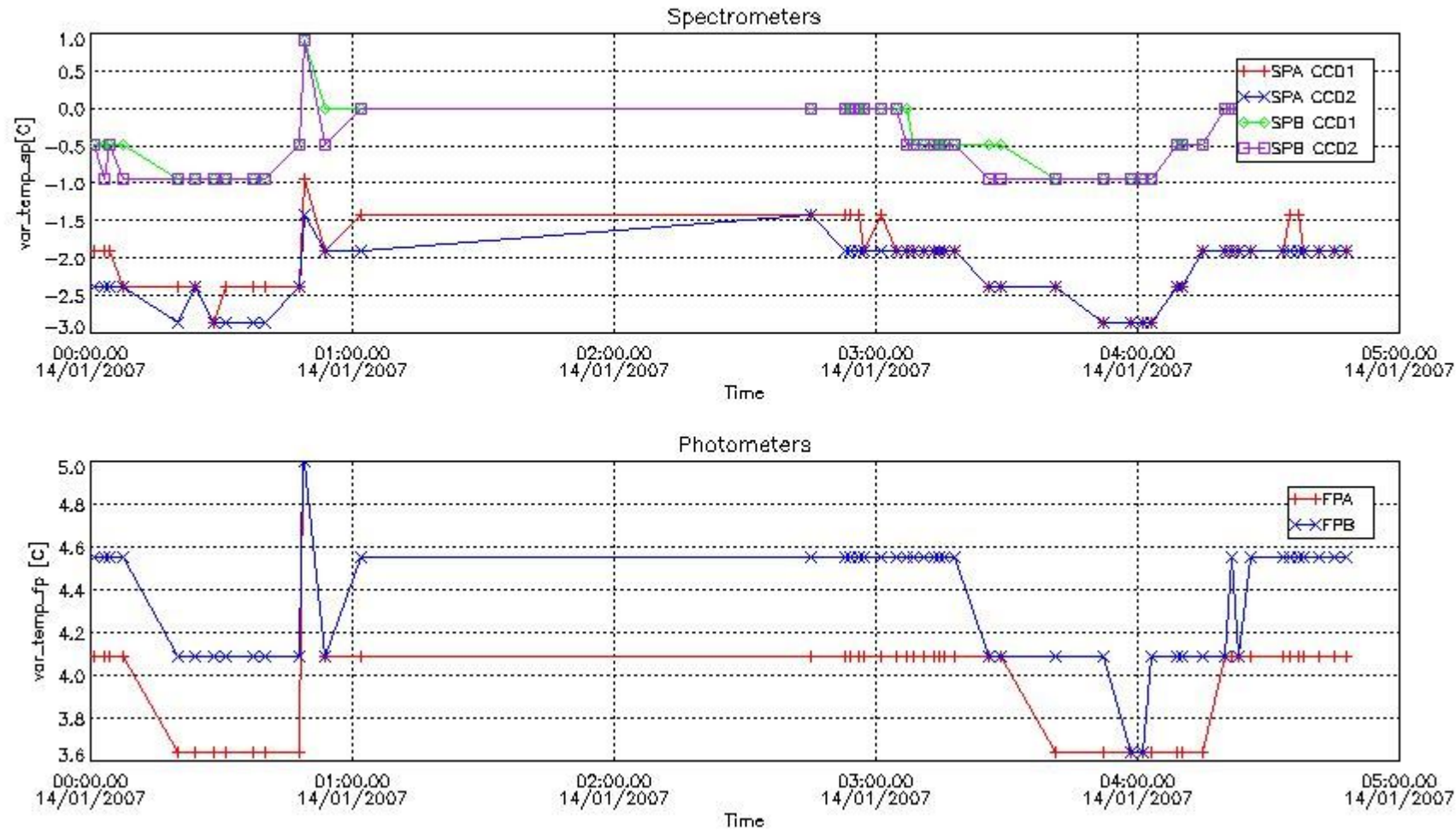
UTC start time	Star name	Star ID	Orbit
14-JAN-2007 00:58:40	GamLup	131	25478
14-JAN-2007 01:00:22	BetLup	109	25478

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_1PNPDE20070114_000047_000000352054_00374_25478_6256.N1	14-JAN-2007 00:00:47	Bright	35.000	176	23Zet Tau	3.0200	22000.	70	25478	No
2	GOM_TRA_1PNPDE20070114_000256_000000372054_00374_25478_6257.N1	14-JAN-2007 00:02:56	Bright	36.500	28	12Bet Tau	1.6500	15200.	73	25478	No
3	GOM_TRA_1PNPDE20070114_000429_000000372054_00374_25478_6258.N1	14-JAN-2007 00:04:29	Bright	37.000	114	3Iot Aur	2.6930	4600.0	74	25478	No
4	GOM_TRA_1PNPDE20070114_000727_000000372054_00374_25478_6259.N1	14-JAN-2007 00:07:27	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	25478	No
5	GOM_TRA_1PNPDE20070114_001959_000000362054_00374_25478_6260.N1	14-JAN-2007 00:19:59	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	25478	No
6	GOM_TRA_1PNPDE20070114_002402_000000382054_00374_25478_6261.N1	14-JAN-2007 00:24:02	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	25478	No
7	GOM_TRA_1PNPDE20070114_002818_000000372054_00374_25478_6262.N1	14-JAN-2007 00:28:18	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	25478	No
8	GOM_TRA_1PNPDE20070114_003049_000000362054_00374_25478_6263.N1	14-JAN-2007 00:30:49	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	25478	No
9	GOM_TRA_1PNPDE20070114_003705_000000392054_00374_25478_6264.N1	14-JAN-2007 00:37:05	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	25478	No

10	GOM_TRA_1PNPDE20070114_004009_000000362054_00374_25478_6265.N1	14-JAN-2007 00:40:09	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	25478	No
11	GOM_TRA_1PNPDE20070114_004742_000000392054_00374_25478_6266.N1	14-JAN-2007 00:47:42	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	25478	No
12	GOM_TRA_1PNPDE20070114_004906_000000452054_00374_25478_6386.N1	14-JAN-2007 00:49:06	Bright	45.000	98	13Zet Oph	2.5710	30000.	90	25478	Yes
13	GOM_TRA_1PNPDE20070114_005333_000000532054_00374_25478_6387.N1	14-JAN-2007 00:53:33	Twi_and_stray	53.000	16	21Alp Sco	1.0200	3000.0	106	25478	No
14	GOM_TRA_1PNPDE20070114_010157_000000402054_00374_25478_6388.N1	14-JAN-2007 01:01:57	Dark	40.000	78	Alp Lup	2.3040	28000.	80	25478	No
15	GOM_TRA_1PNPDE20070114_024514_000000412054_00376_25480_6559.N1	14-JAN-2007 02:45:14	Dark	41.000	4	Alp1Cen	-0.010000	5800.0	82	25480	No
16	GOM_TRA_1PNPDE20070114_025250_000000382054_00376_25480_6560.N1	14-JAN-2007 02:52:50	Dark	38.000	124	The Car	2.7640	30000.	76	25480	No
17	GOM_TRA_1PNPDE20070114_025416_000000382054_00376_25480_6561.N1	14-JAN-2007 02:54:16	Dark	38.000	29	Bet Car	1.6720	10200.	76	25480	No
18	GOM_TRA_1PNPDE20070114_025609_000000412054_00376_25480_6562.N1	14-JAN-2007 02:56:09	Dark	40.500	71	lot Car	2.2460	7700.0	81	25480	No
19	GOM_TRA_1PNPDE20070114_025726_000000502054_00376_25480_6563.N1	14-JAN-2007 02:57:26	Dark	50.000	41	Eps Car	1.8600	4100.0	100	25480	No
20	GOM_TRA_1PNPDE20070114_030106_000000432054_00376_25480_6564.N1	14-JAN-2007 03:01:06	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	25480	No
21	GOM_TRA_1PNPDE20070114_030437_000000452054_00376_25480_6565.N1	14-JAN-2007 03:04:37	Straylight	44.500	117	Pi Pup	2.7060	3800.0	89	25480	No
22	GOM_TRA_1PNPDE20070114_030711_000000432054_00376_25480_6566.N1	14-JAN-2007 03:07:11	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	25480	No
23	GOM_TRA_1PNPDE20070114_030837_000000402054_00376_25480_6567.N1	14-JAN-2007 03:08:37	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	25480	No
24	GOM_TRA_1PNPDE20070114_031052_000000542054_00376_25480_6568.N1	14-JAN-2007 03:10:52	Straylight	54.000	1	9Alp CMa	-1.4400	11000.	108	25480	No
25	GOM_TRA_1PNPDE20070114_031321_000000412054_00376_25480_6569.N1	14-JAN-2007 03:13:21	Straylight	41.000	56	53Kap Ori	2.0650	30000.	82	25480	No
26	GOM_TRA_1PNPDE20070114_031431_000000392054_00376_25480_6570.N1	14-JAN-2007 03:14:31	Straylight	39.000	125	44lot Ori	2.7700	30000.	78	25480	No
27	GOM_TRA_1PNPDE20070114_031548_000000402054_00376_25480_6571.N1	14-JAN-2007 03:15:48	Twi_and_stray	40.000	30	46Eps Ori	1.6940	30000.	80	25480	No
28	GOM_TRA_1PNPDE20070114_031803_000000492054_00376_25480_6572.N1	14-JAN-2007 03:18:03	Twi_and_stray	49.000	14	58Alp Ori	0.87000	3000.0	98	25480	No
29	GOM_TRA_1PNPDE20070114_032541_000000372054_00376_25480_6573.N1	14-JAN-2007 03:25:41	Bright	36.500	114	3lot Aur	2.6930	4600.0	73	25480	No
30	GOM_TRA_1PNPDE20070114_032839_000000382054_00376_25480_6574.N1	14-JAN-2007 03:28:39	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	25480	No
31	GOM_TRA_1PNPDE20070114_034111_000000362054_00376_25480_6575.N1	14-JAN-2007 03:41:11	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	25480	No
32	GOM_TRA_1PNPDE20070114_035201_000000362054_00376_25480_6730.N1	14-JAN-2007 03:52:01	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	25480	No
33	GOM_TRA_1PNPDE20070114_035817_000000362054_00376_25480_6731.N1	14-JAN-2007 03:58:17	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	25480	No
34	GOM_TRA_1PNPDE20070114_040121_000000362054_00376_25480_6732.N1	14-JAN-2007 04:01:21	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	25480	No
35	GOM_TRA_1PNPDE20070114_040304_000000332054_00376_25480_6733.N1	14-JAN-2007 04:03:04	Bright	32.500	59	55Alp Oph	2.0800	8900.0	65	25480	No
36	GOM_TRA_1PNPDE20070114_040855_000000402054_00376_25480_6734.N1	14-JAN-2007 04:08:55	Bright	40.000	120	1Del Oph	2.7340	3200.0	80	25480	No
37	GOM_TRA_1PNPDE20070114_041018_000000362054_00376_25480_6735.N1	14-JAN-2007 04:10:18	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	25480	No
38	GOM_TRA_1PNPDE20070114_041445_000000532054_00376_25480_6736.N1	14-JAN-2007 04:14:45	Twi_and_stray	53.000	16	21Alp Sco	1.0200	3000.0	106	25480	No
39	GOM_TRA_1PNPDE20070114_041957_000000402054_00376_25480_6737.N1	14-JAN-2007 04:19:57	Dark	39.500	131	Gam Lup	2.8000	26000.	79	25480	No
40	GOM_TRA_1PNPDE20070114_042140_000000422054_00376_25480_6738.N1	14-JAN-2007 04:21:40	Dark	41.500	109	Bet Lup	2.6770	26000.	83	25480	No
41	GOM_TRA_1PNPDE20070114_042310_000000422054_00376_25480_6739.N1	14-JAN-2007 04:23:10	Dark	41.500	78	Alp Lup	2.3040	28000.	83	25480	No
42	GOM_TRA_1PNPDE20070114_042550_000000532054_00377_25481_6740.N1	14-JAN-2007 04:25:50	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	25481	No
43	GOM_TRA_1PNPDE20070114_043327_000000382054_00377_25481_6741.N1	14-JAN-2007 04:33:27	Dark	37.500	124	The Car	2.7640	30000.	75	25481	No
44	GOM_TRA_1PNPDE20070114_043453_000000382054_00377_25481_6742.N1	14-JAN-2007 04:34:53	Dark	37.500	29	Bet Car	1.6720	10200.	75	25481	No
45	GOM_TRA_1PNPDE20070114_043645_000000442054_00377_25481_6743.N1	14-JAN-2007 04:36:45	Dark	44.000	71	lot Car	2.2460	7700.0	88	25481	No
46	GOM_TRA_1PNPDE20070114_043802_000000432054_00377_25481_6744.N1	14-JAN-2007 04:38:02	Dark	42.500	41	Eps Car	1.8600	4100.0	85	25481	No
47	GOM_TRA_1PNPDE20070114_044142_000000482054_00377_25481_6745.N1	14-JAN-2007 04:41:42	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	25481	No
48	GOM_TRA_1PNPDE20070114_044513_000000442054_00377_25481_6746.N1	14-JAN-2007 04:45:13	Straylight	43.500	117	Pi Pup	2.7060	3800.0	87	25481	No
49	GOM_TRA_1PNPDE20070114_044748_000000422054_00377_25481_6747.N1	14-JAN-2007 04:47:48	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	25481	No

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



4. Overview of dark signal processing per product

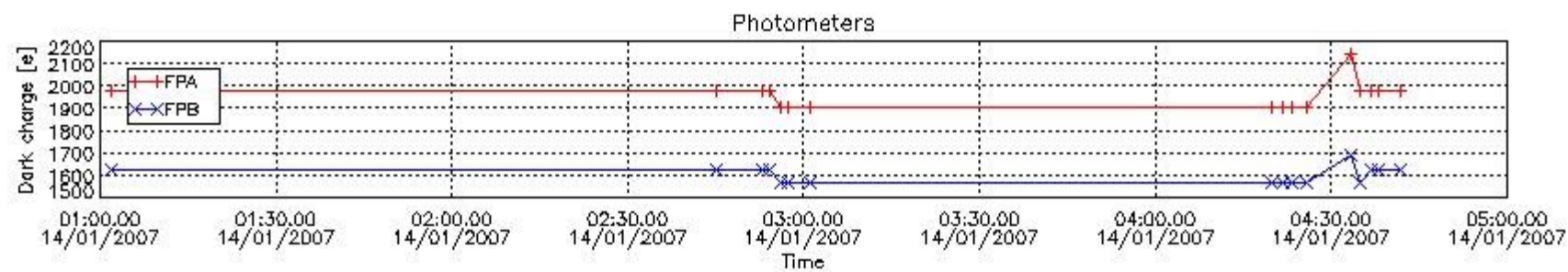
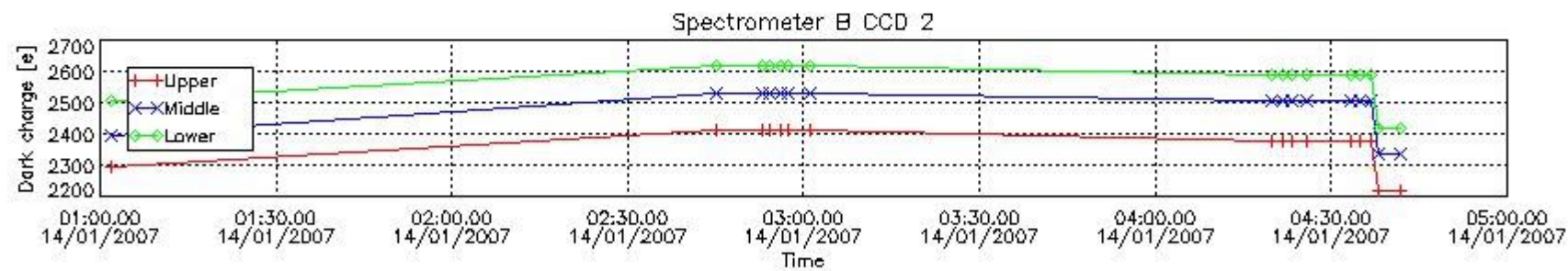
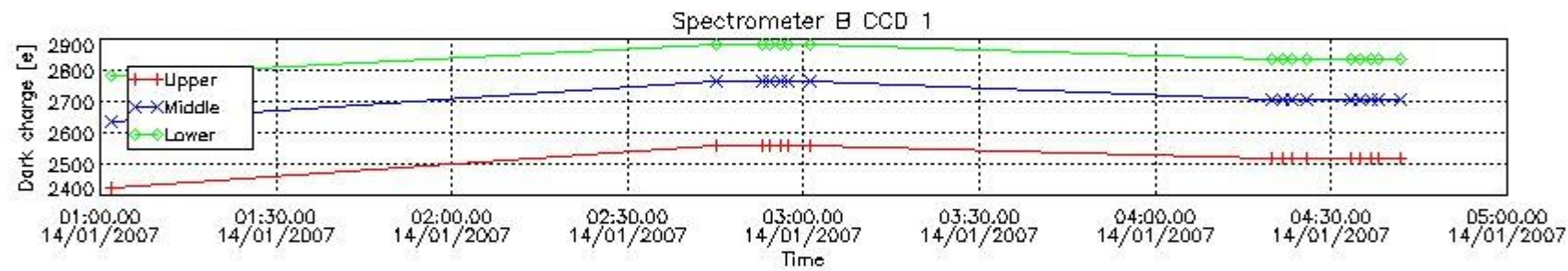
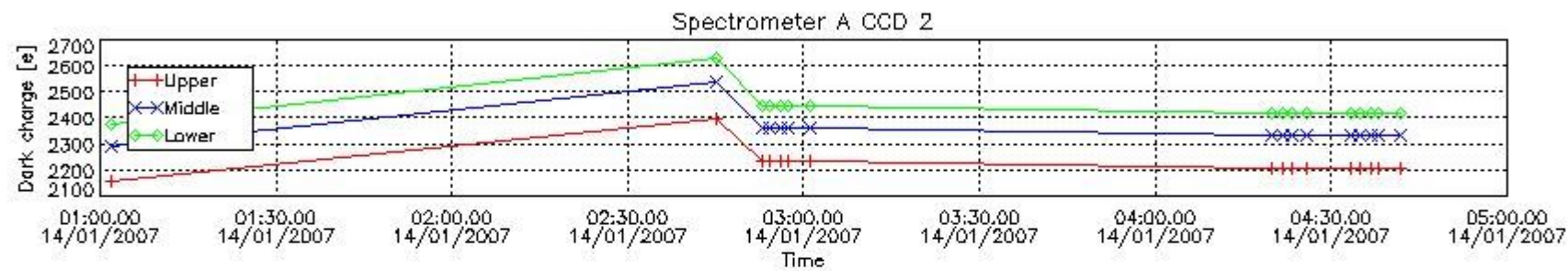
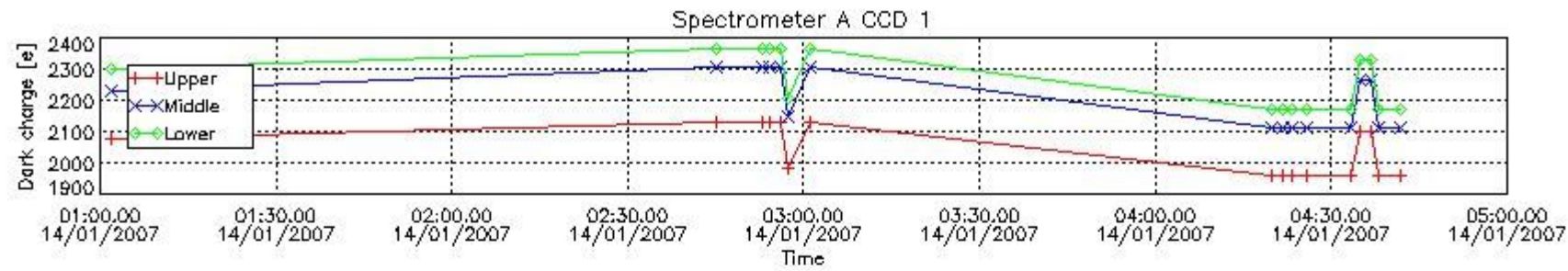
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20070114_004906_000000452054_00374_25478_6386.N1	DC map with no T dep.
GOM_TRA_1PNPDE20070114_005333_000000532054_00374_25478_6387.N1	DC map used
GOM_TRA_1PNPDE20070114_010157_000000402054_00374_25478_6388.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



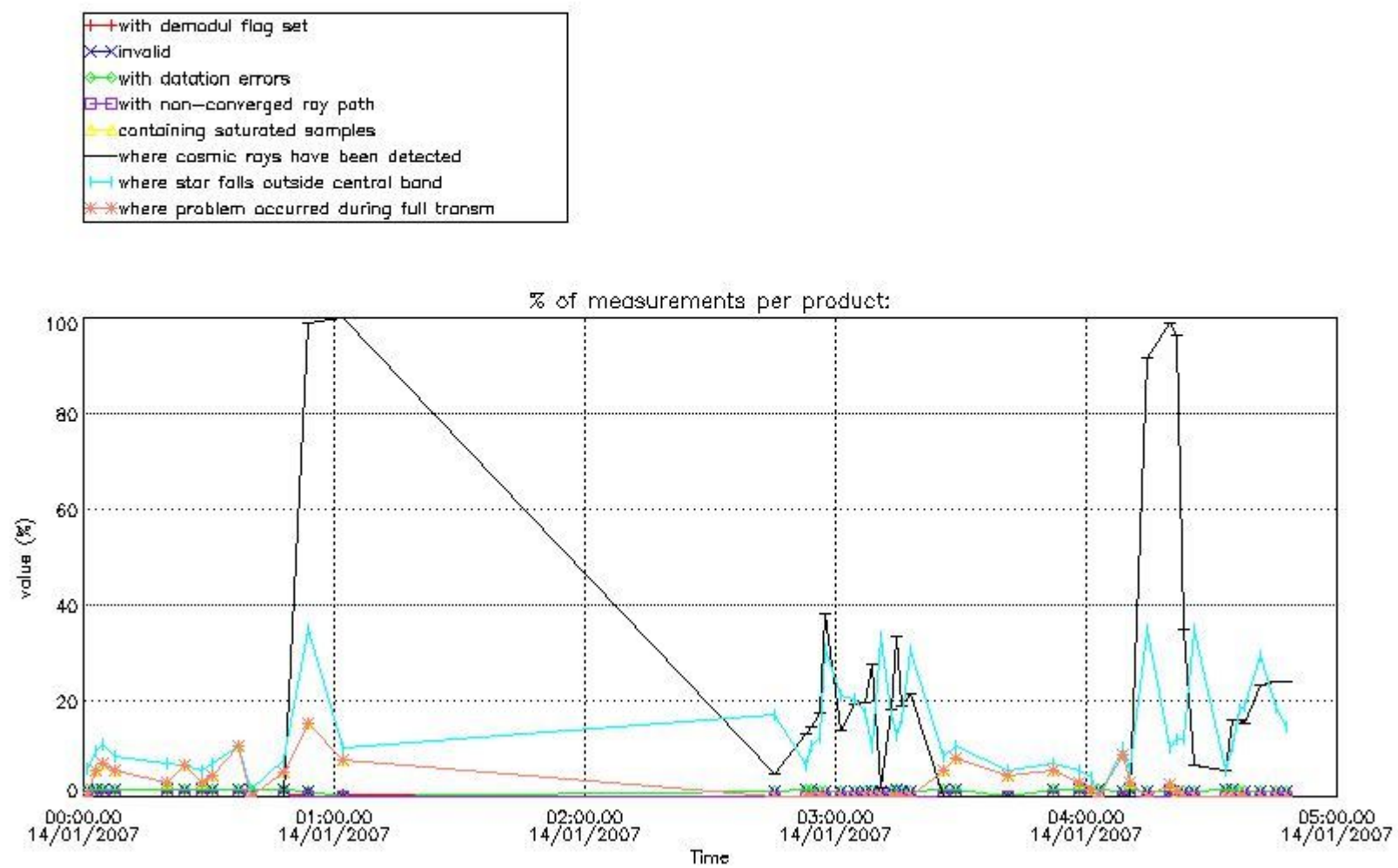
5. Demodulation flag and quality information monitoring

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.

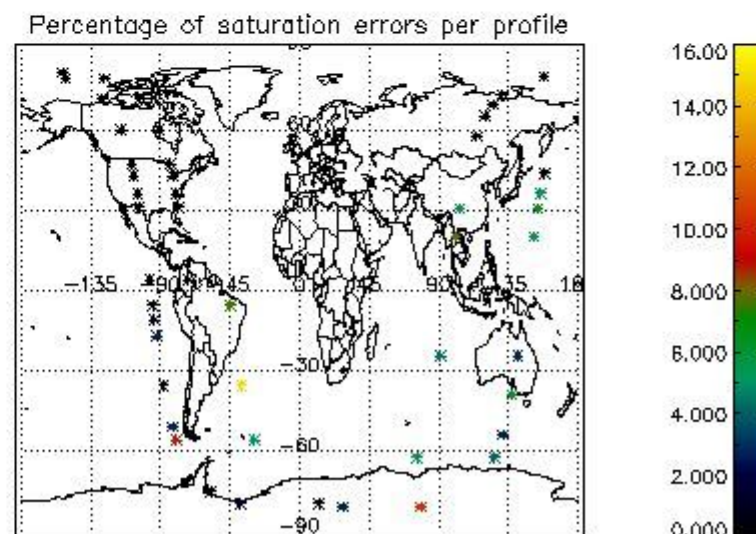
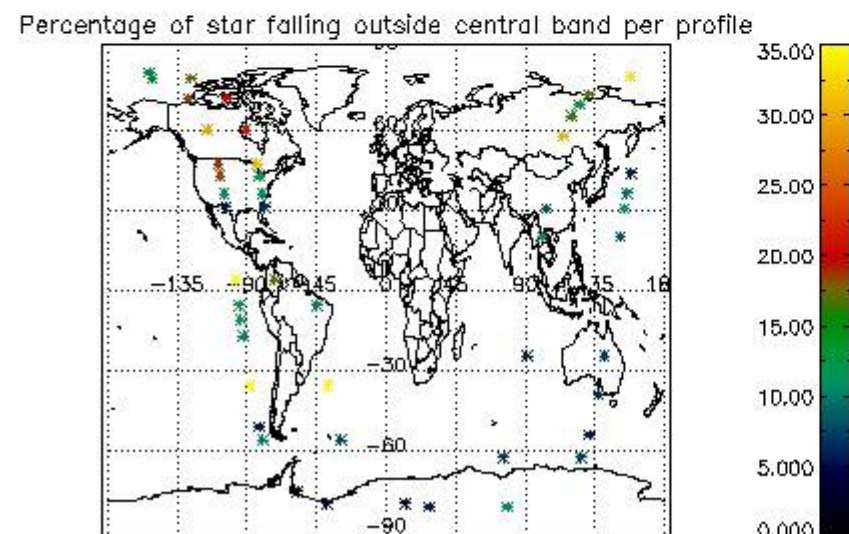
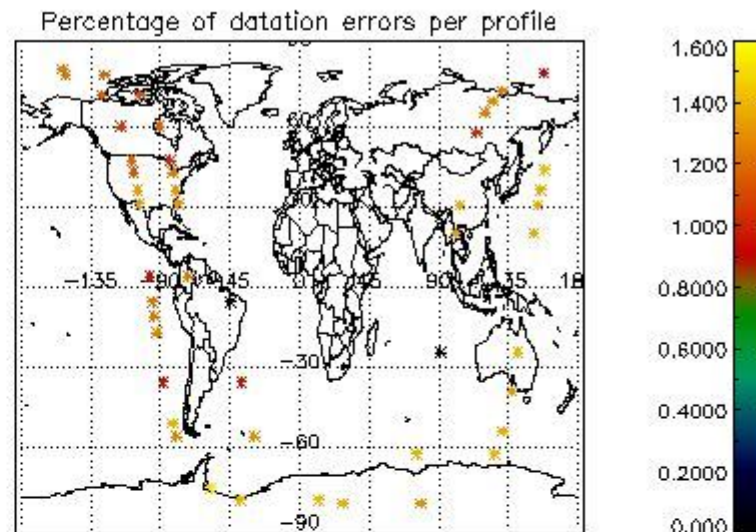
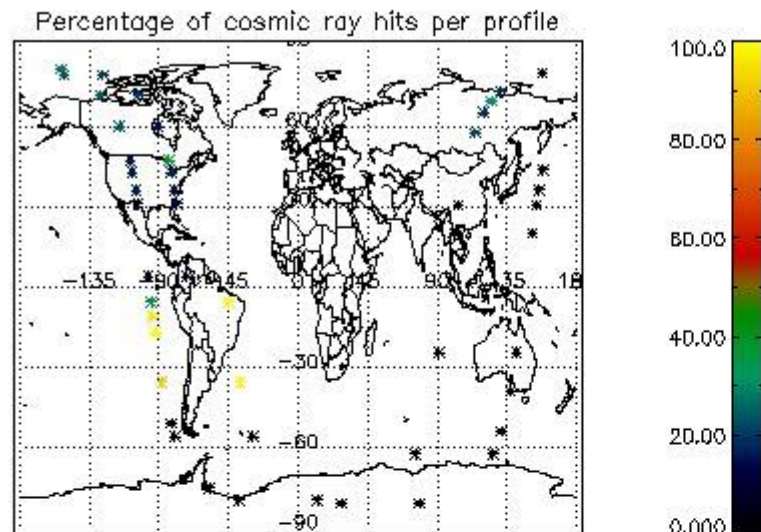
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.5833 %
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)



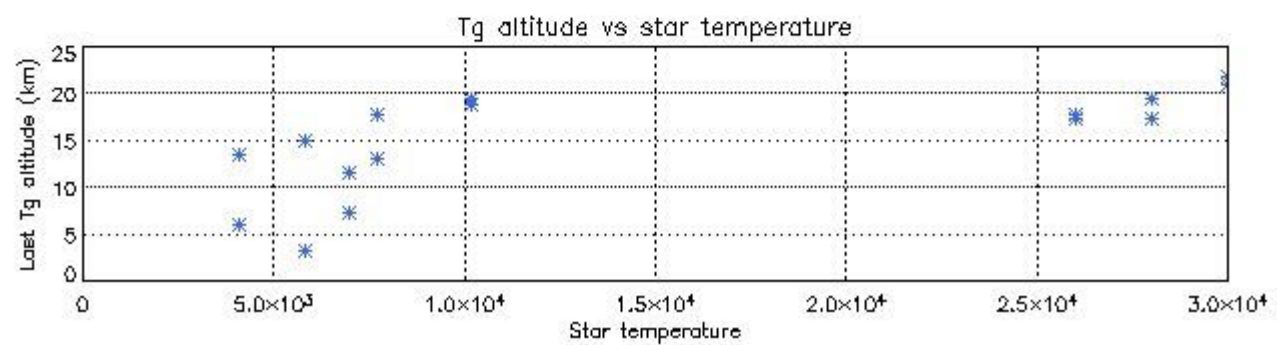
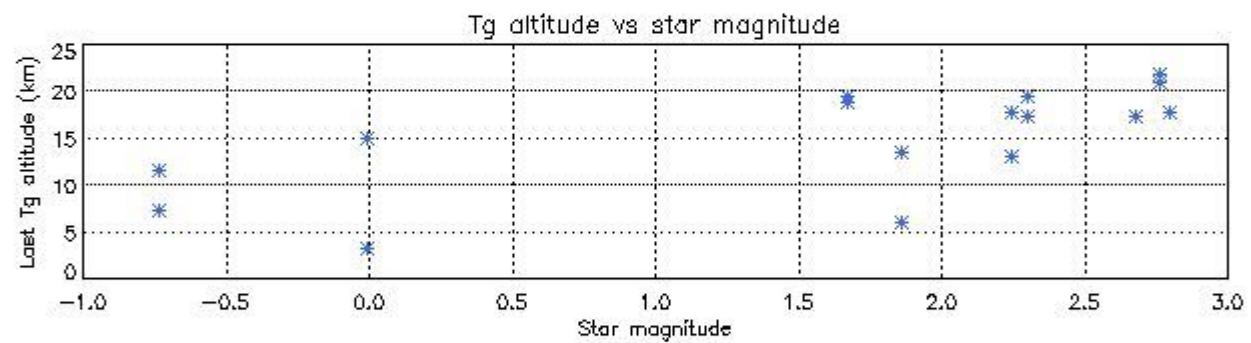
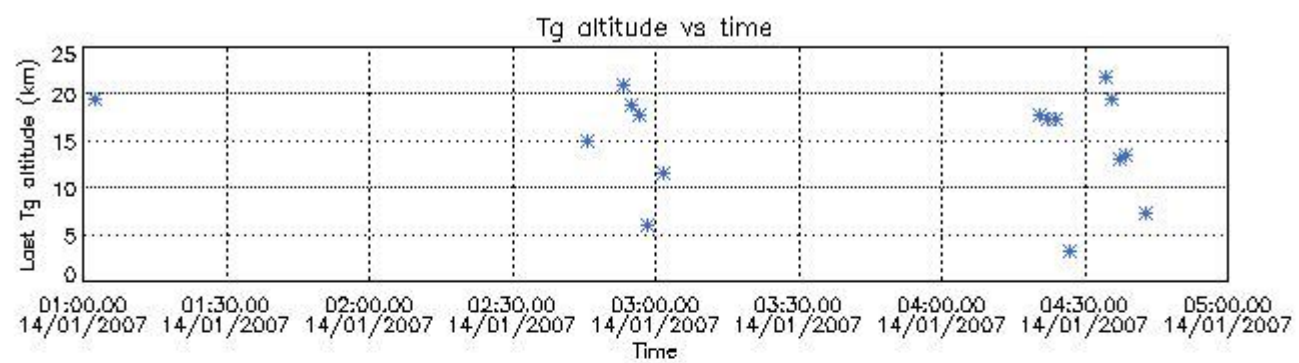
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.986	20.437	NaN
St. deviation:	5.5223	2.4772	NaN
Maximum:	21.767	26.879	NaN
Minimum:	3.1018	17.132	NaN
Number of data:	16.000	20.000	NaN

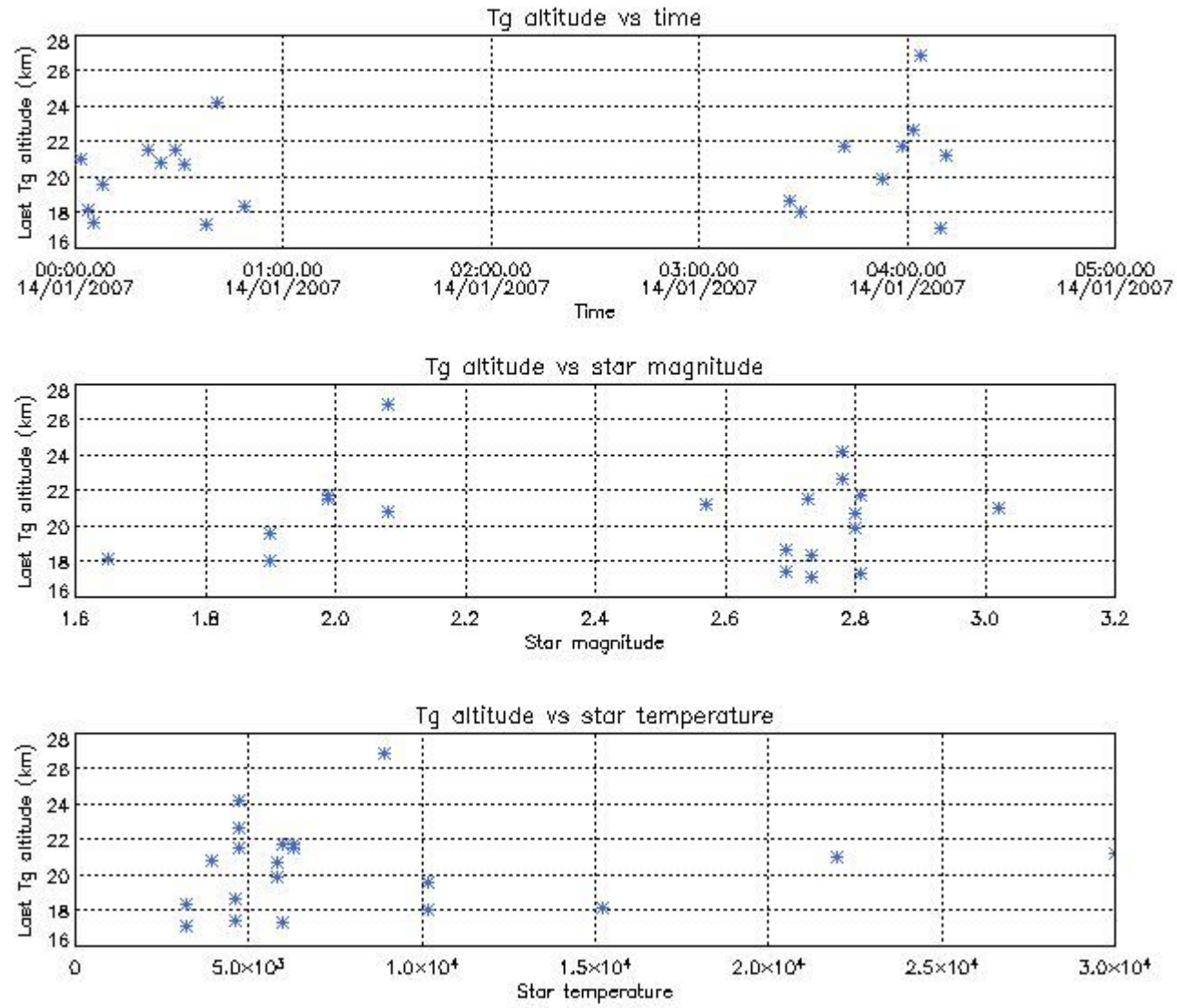
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

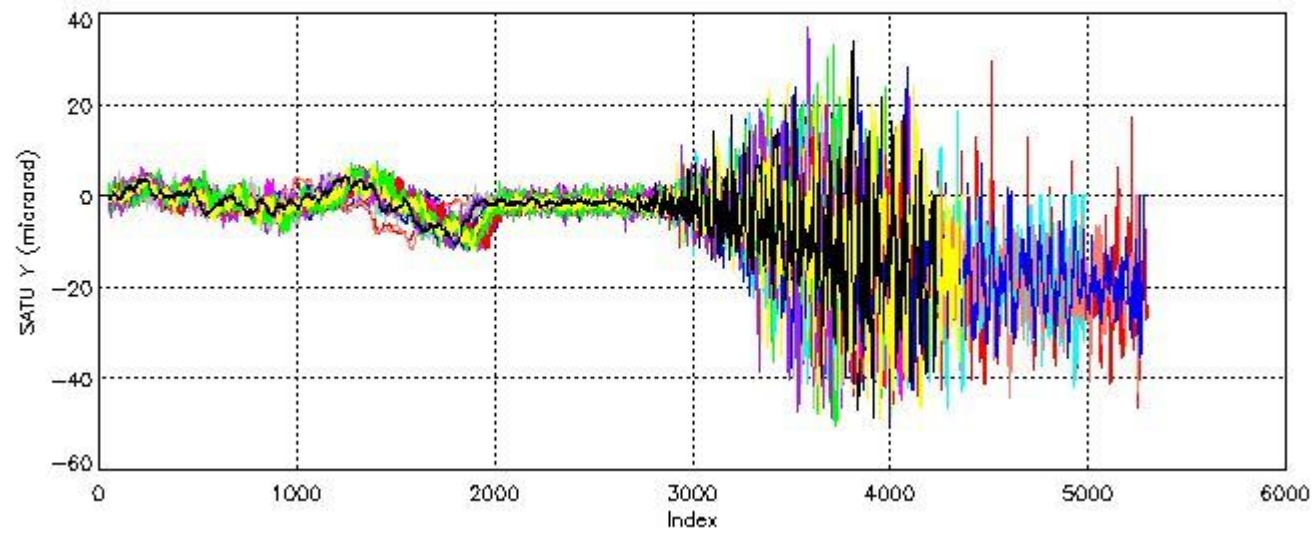
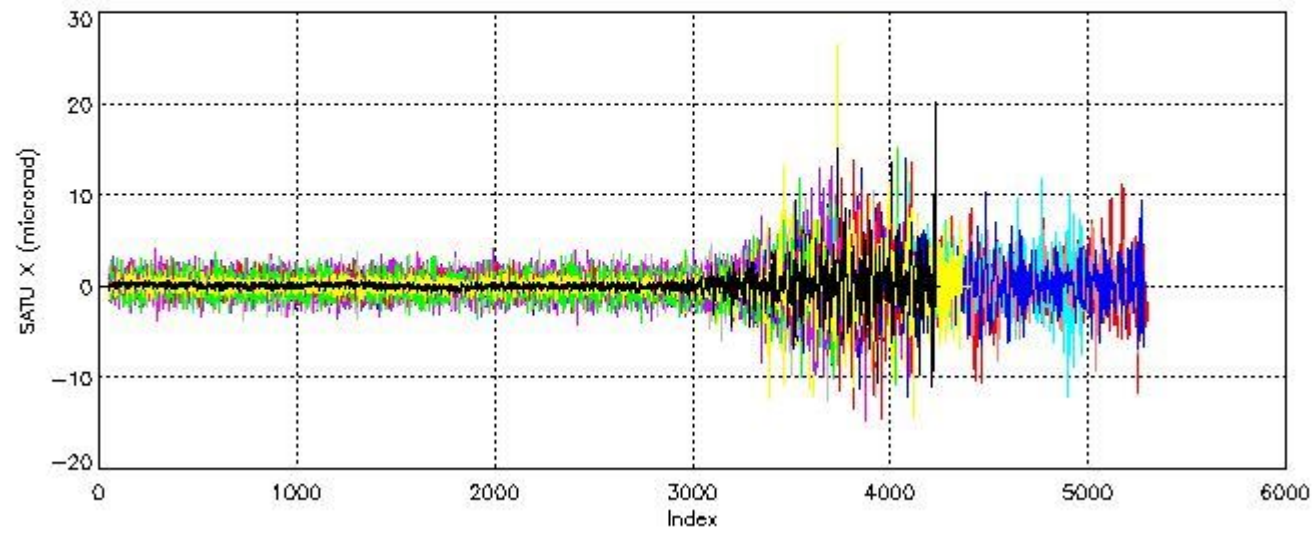


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.10740	-0.61591	0.045993	-0.86978
St. deviation:	0.54747	2.0300	0.68499	2.1247
Maximum:	4.2000	6.3000	4.6000	7.2000
Minimum:	-3.8000	-8.7000	-5.2000	-7.9000

Number of data:	14300.	14300.	16450.	16450.
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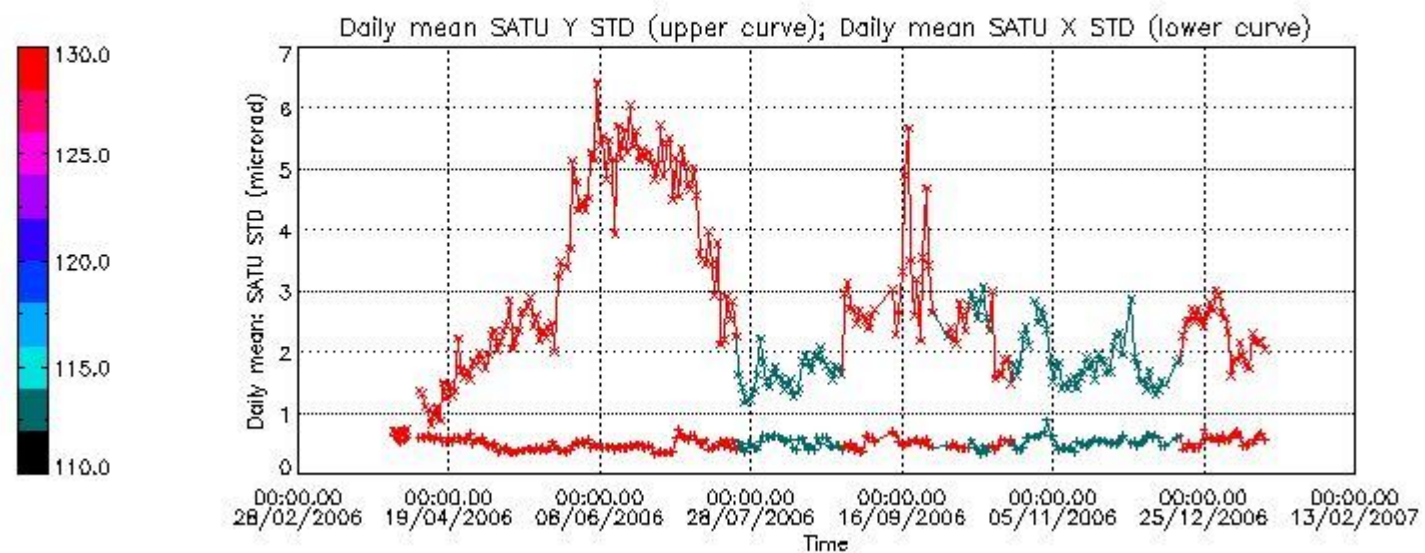
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

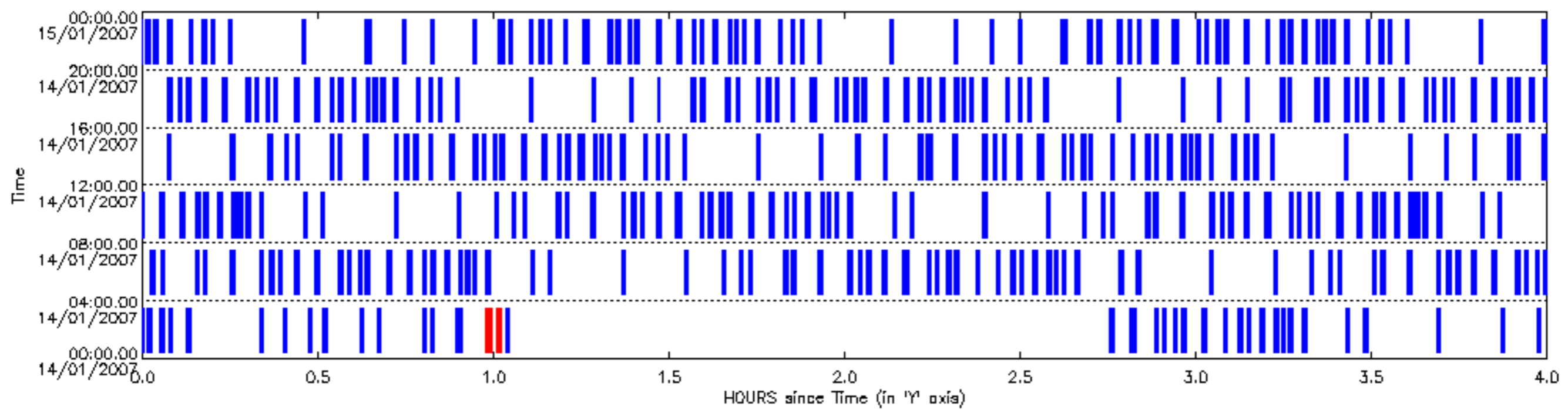
Lower curve: STD of SATU X axis

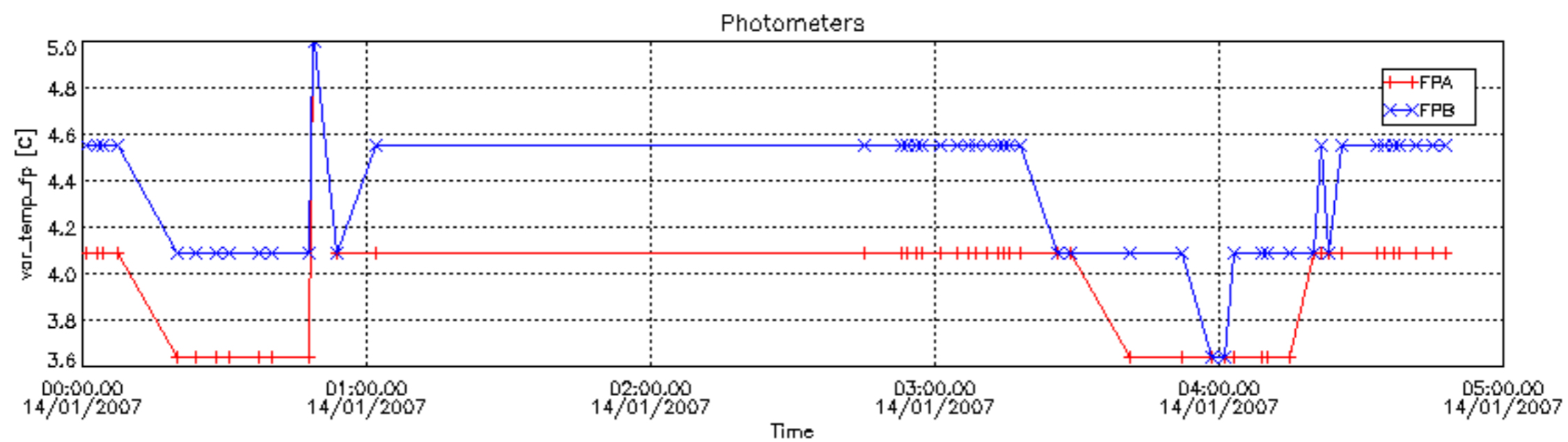
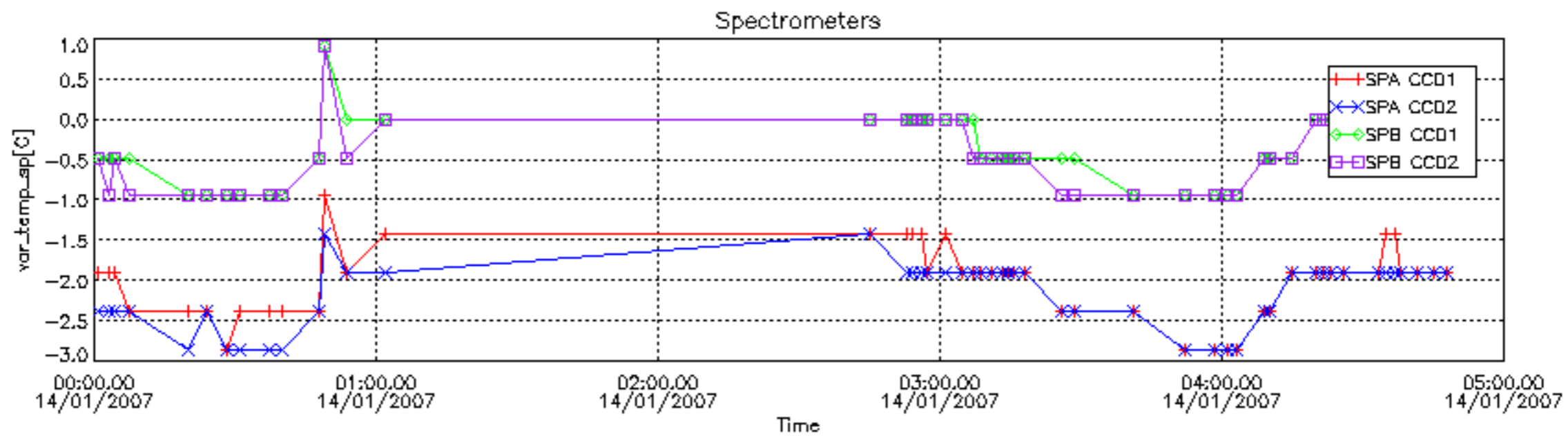


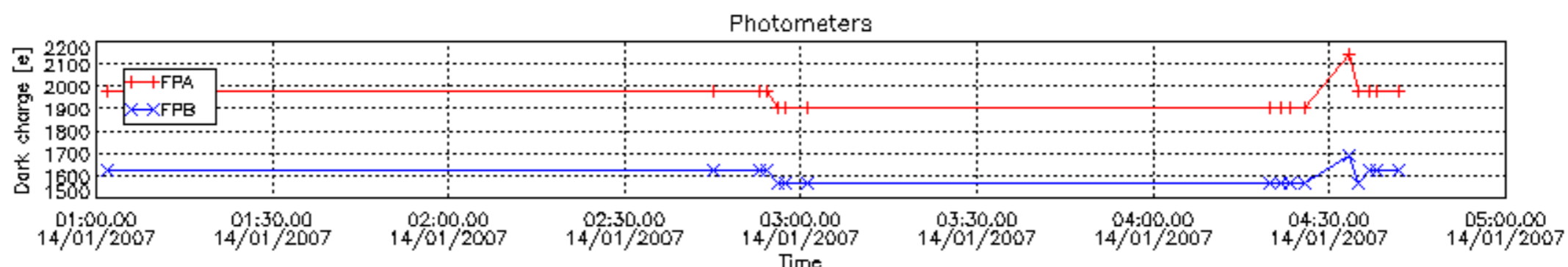
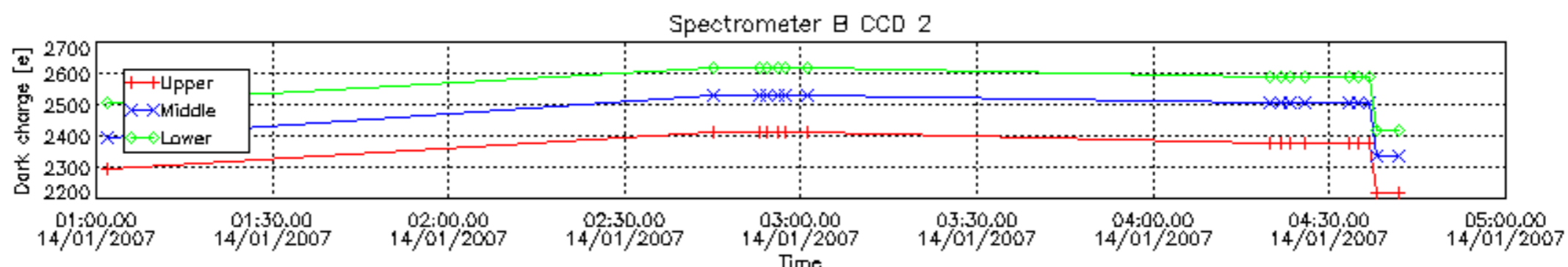
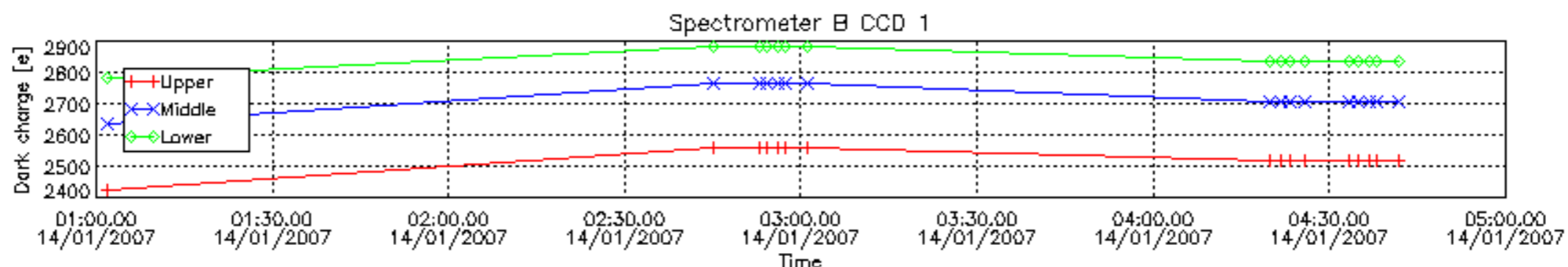
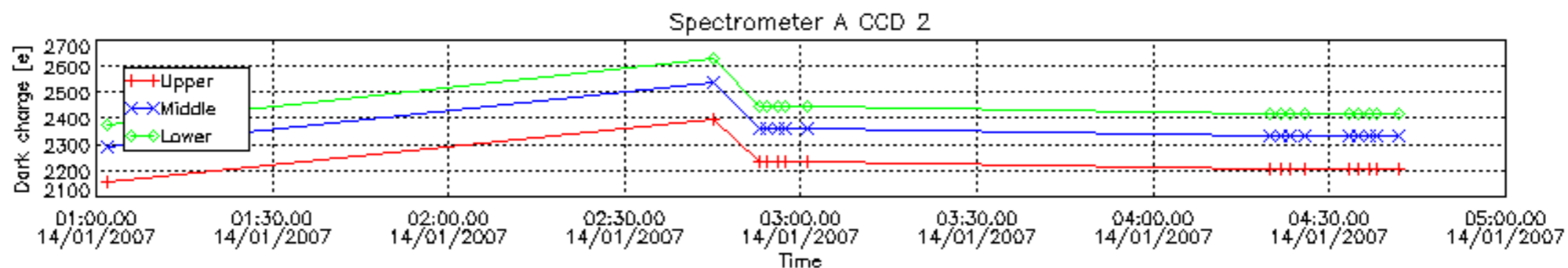
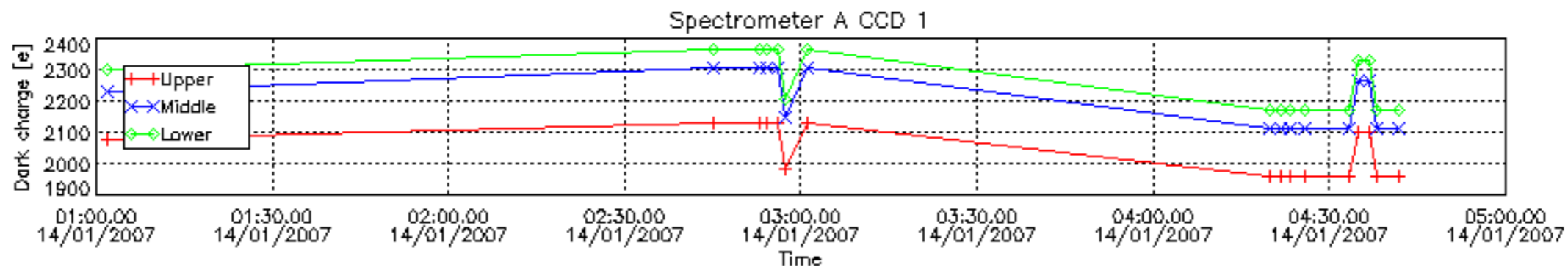
8. Auxiliary Data Files used for the production reported in section 2.4

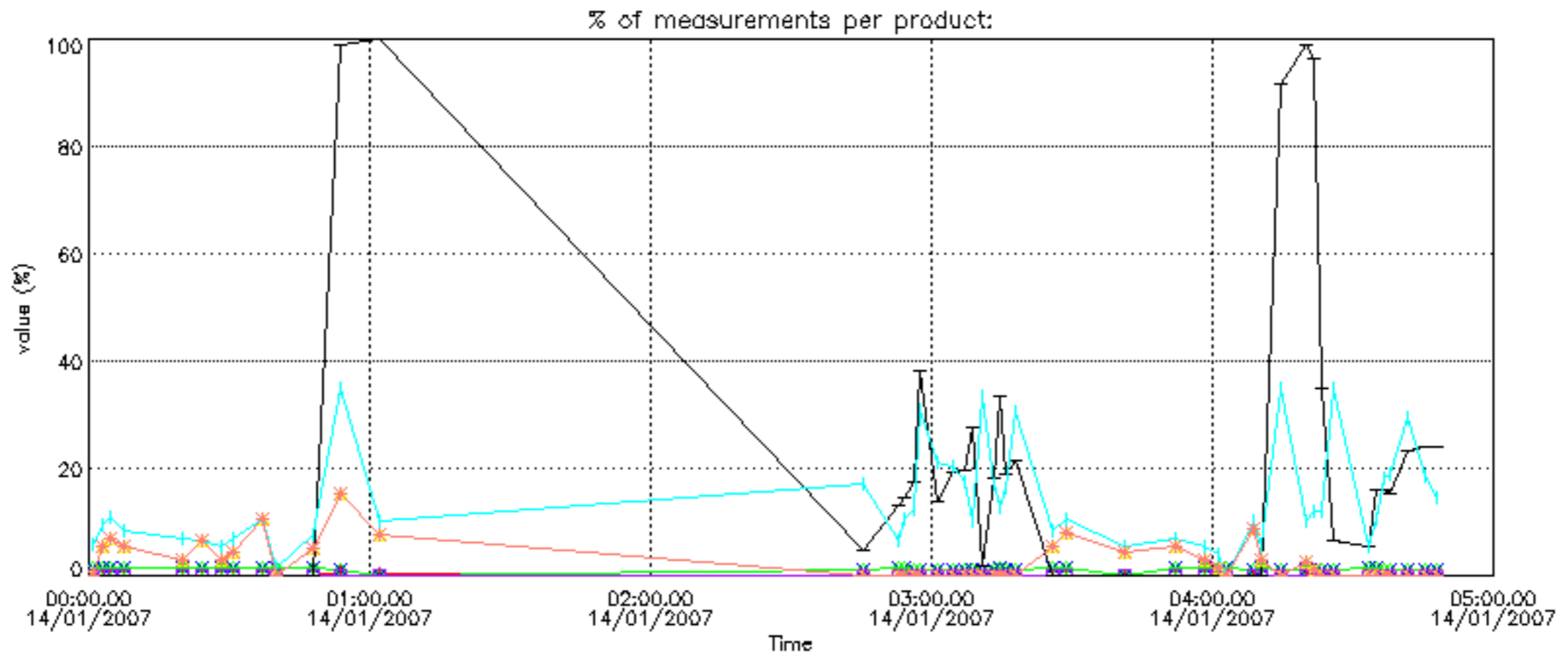
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	14-JAN-2007 00:00:47
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070105_103648_20070104_000000_20100101_000000	1	14-JAN-2007 00:00:47
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-JAN-2007 00:00:47
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-JAN-2007 00:00:47
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-JAN-2007 00:00:47
ECMWF_FILE	AUX_ECF_AXNECM20070113_064734_20070113_210000_20070114_090000	1	14-JAN-2007 00:00:47
ECMWF_FILE	AUX_ECF_AXNECM20070113_184444_20070114_030000_20070114_150000	32	14-JAN-2007 03:52:01
OPTIONAL_ECMWF_FILE	MISSING	1	14-JAN-2007 00:00:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070113_212427_000057382054_00372_25476_2568.N1	1	14-JAN-2007 00:00:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070113_230524_000057382054_00373_25477_2569.N1	12	14-JAN-2007 00:49:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070114_004621_000041442054_00374_25478_2570.N1	15	14-JAN-2007 02:45:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070114_020044_000057382054_00375_25479_2571.N1	32	14-JAN-2007 03:52:01

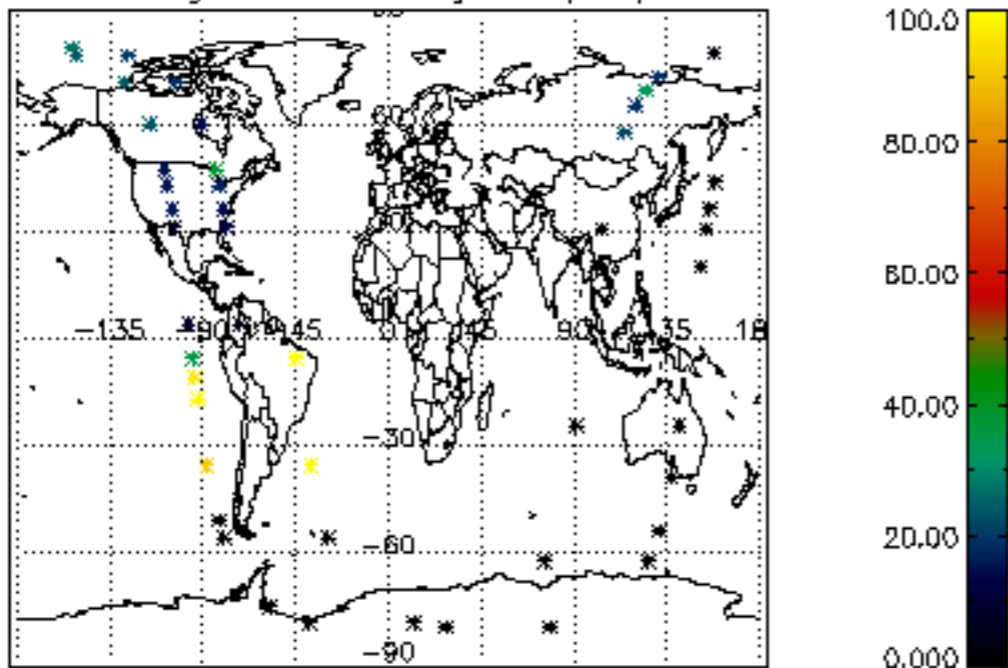




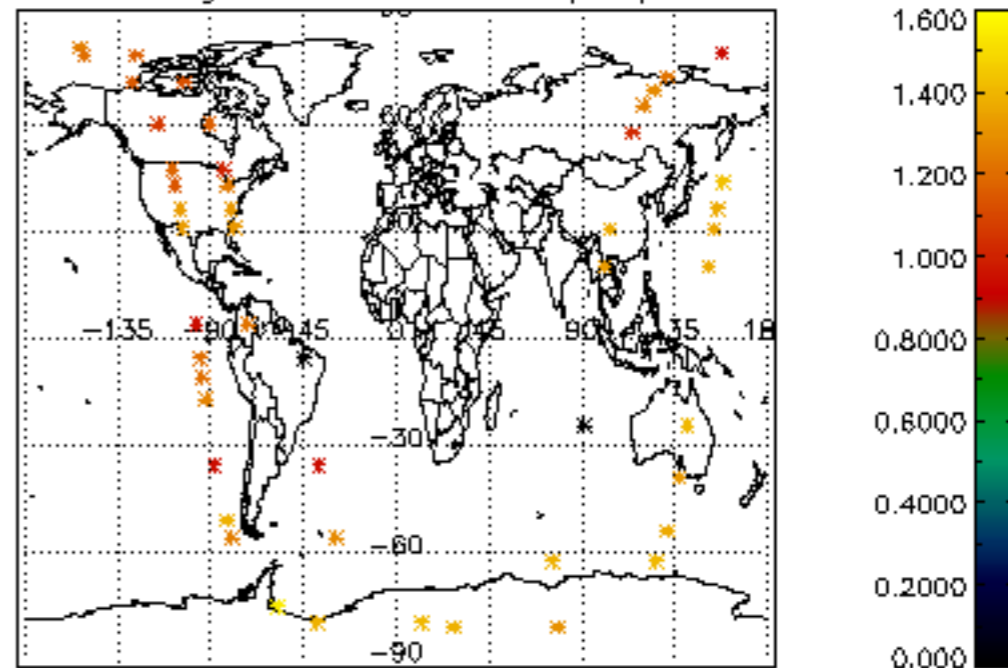




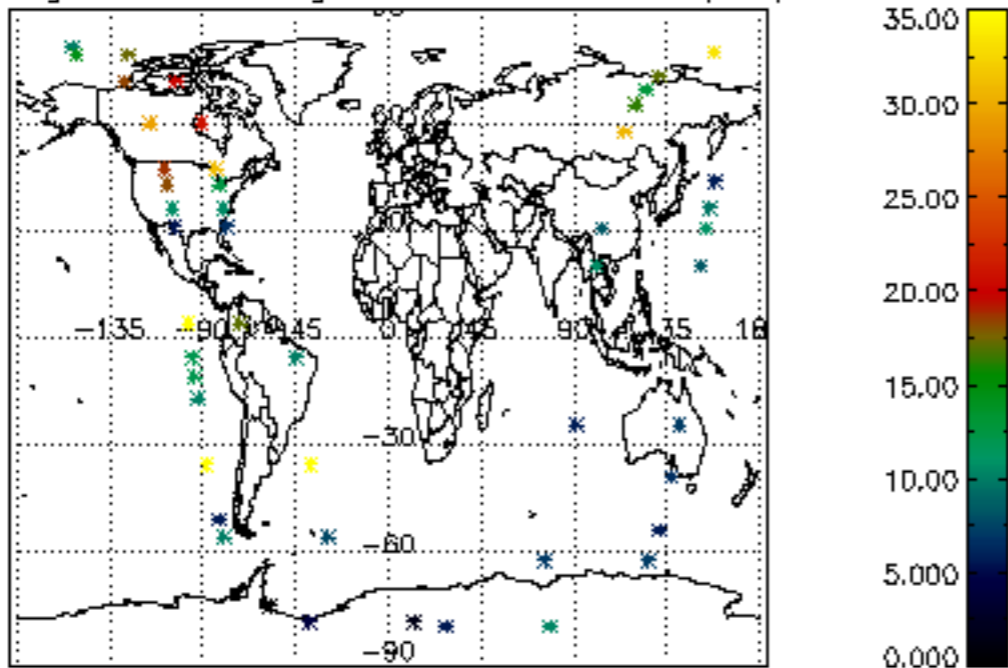
Percentage of cosmic ray hits per profile



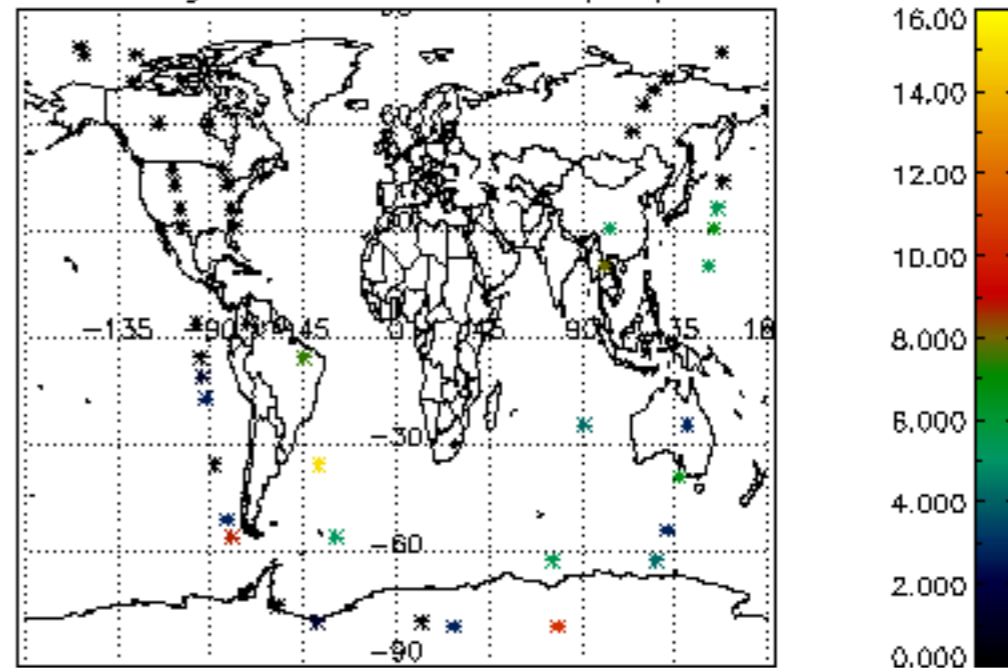
Percentage of datation errors per profile



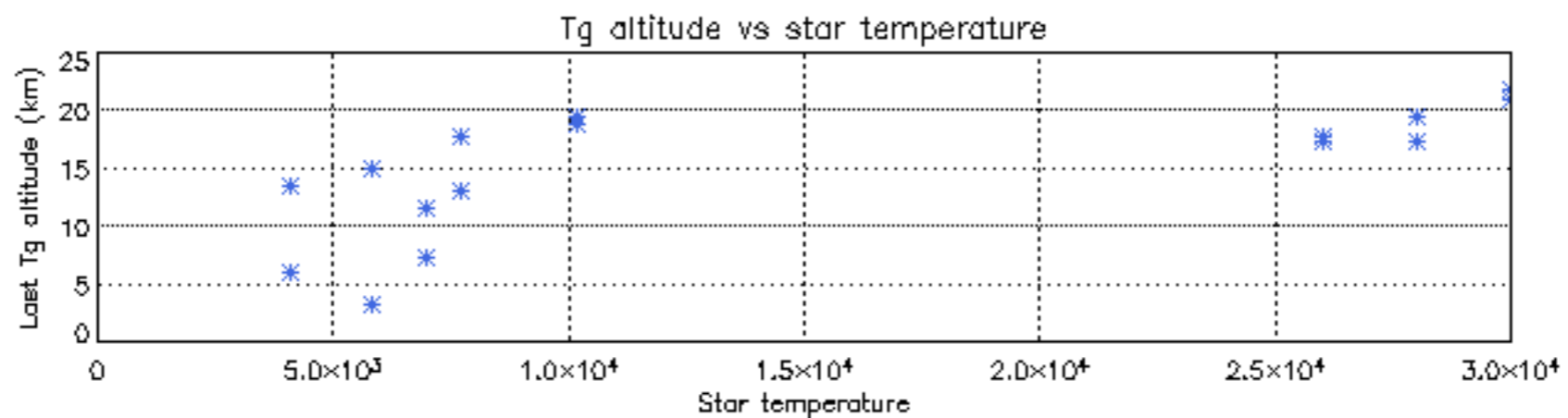
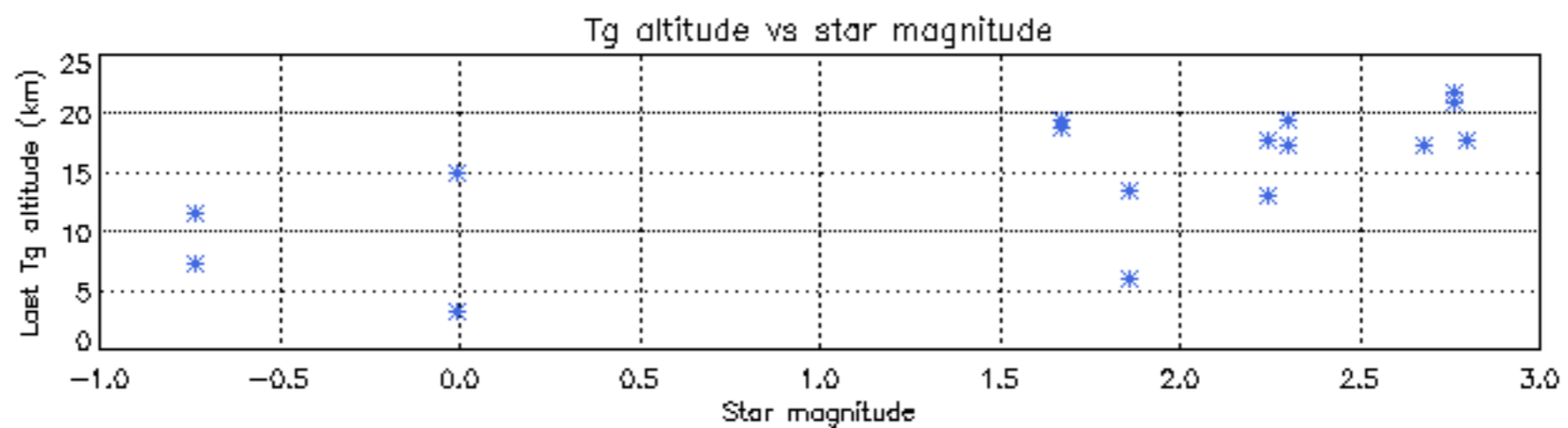
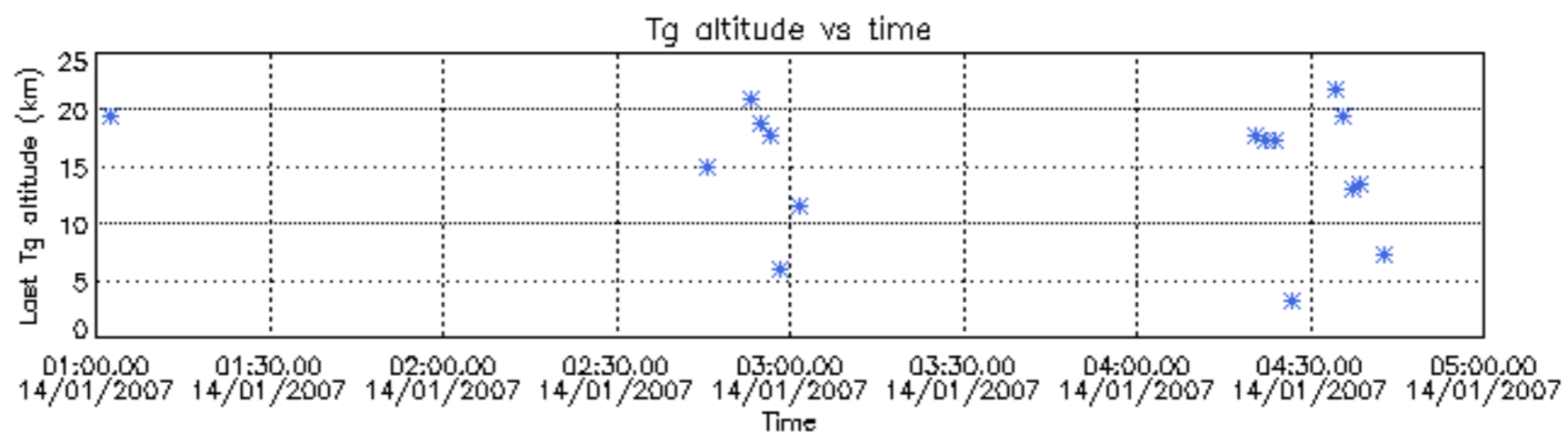
Percentage of star falling outside central band per profile



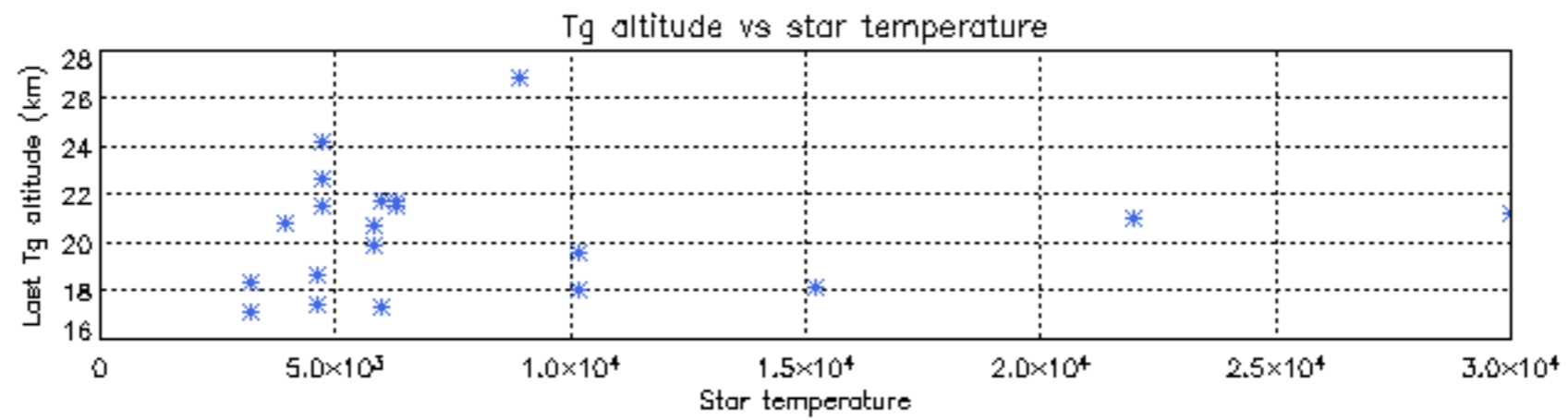
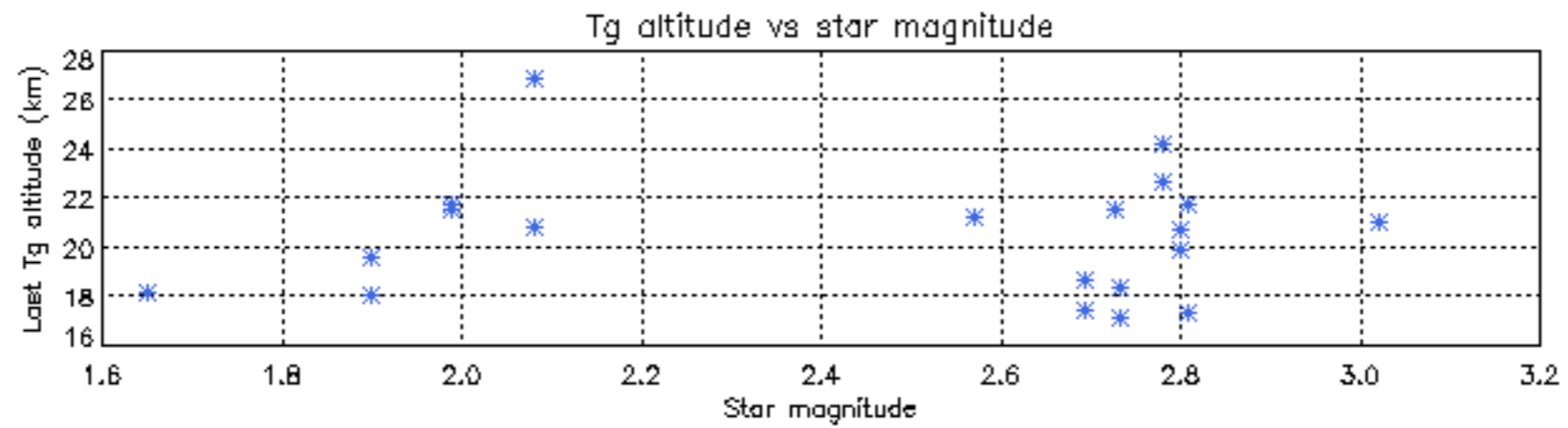
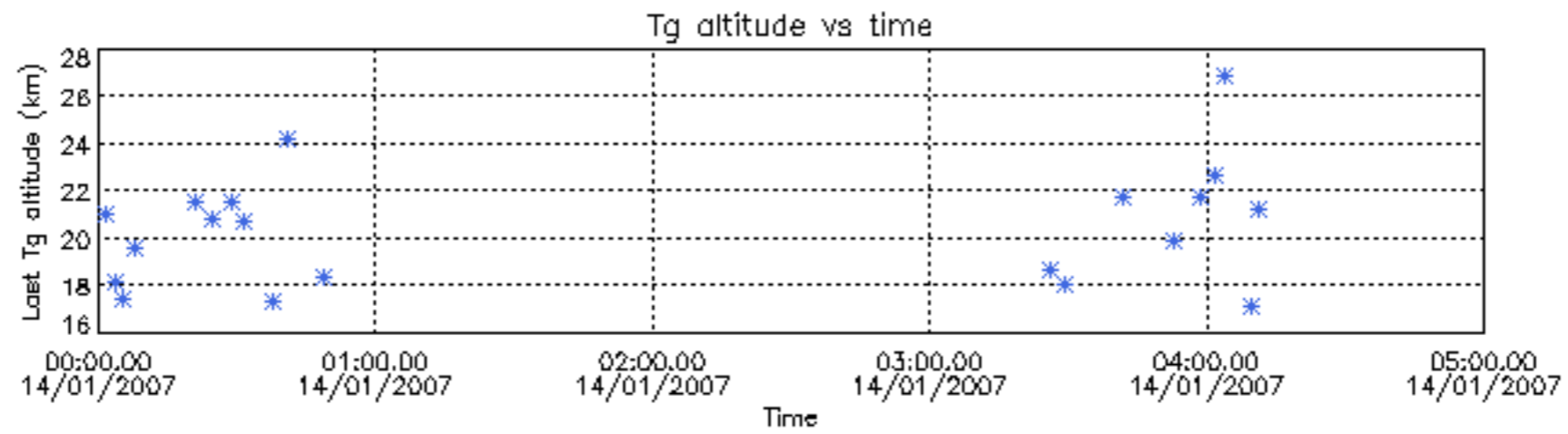
Percentage of saturation errors per profile

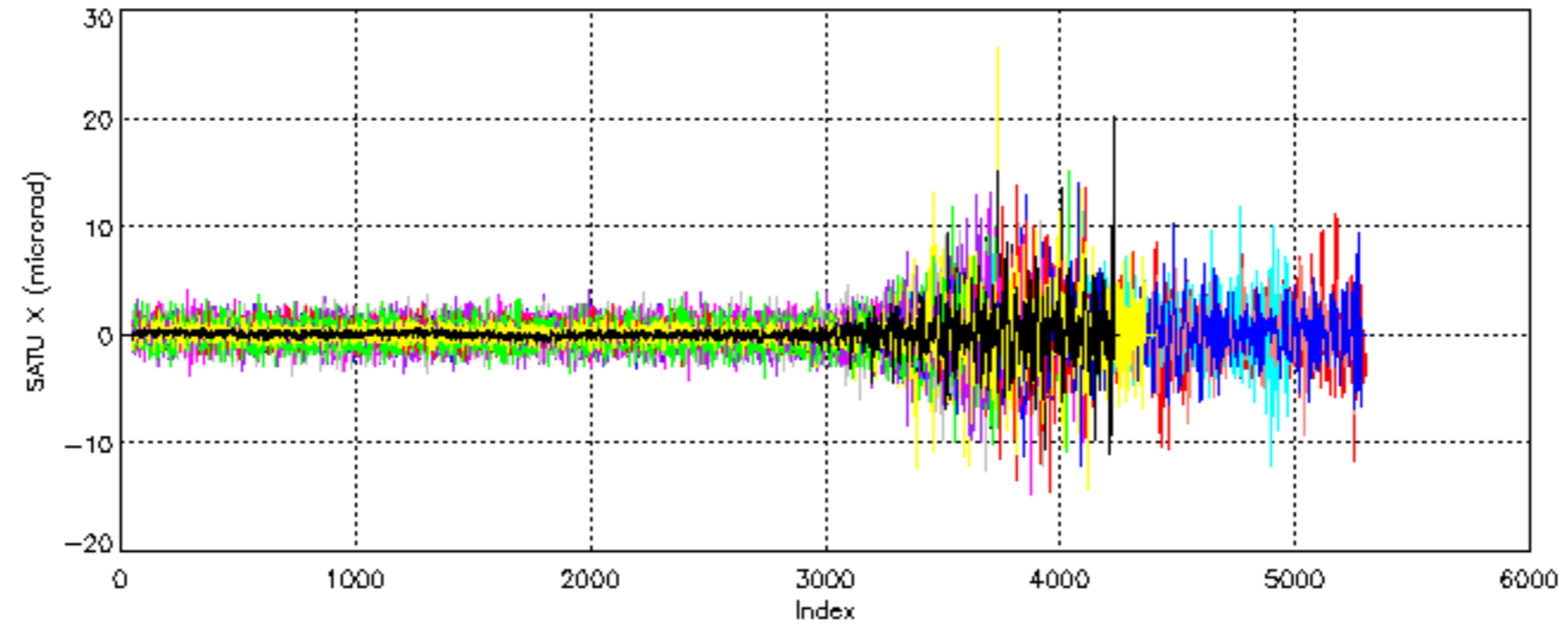


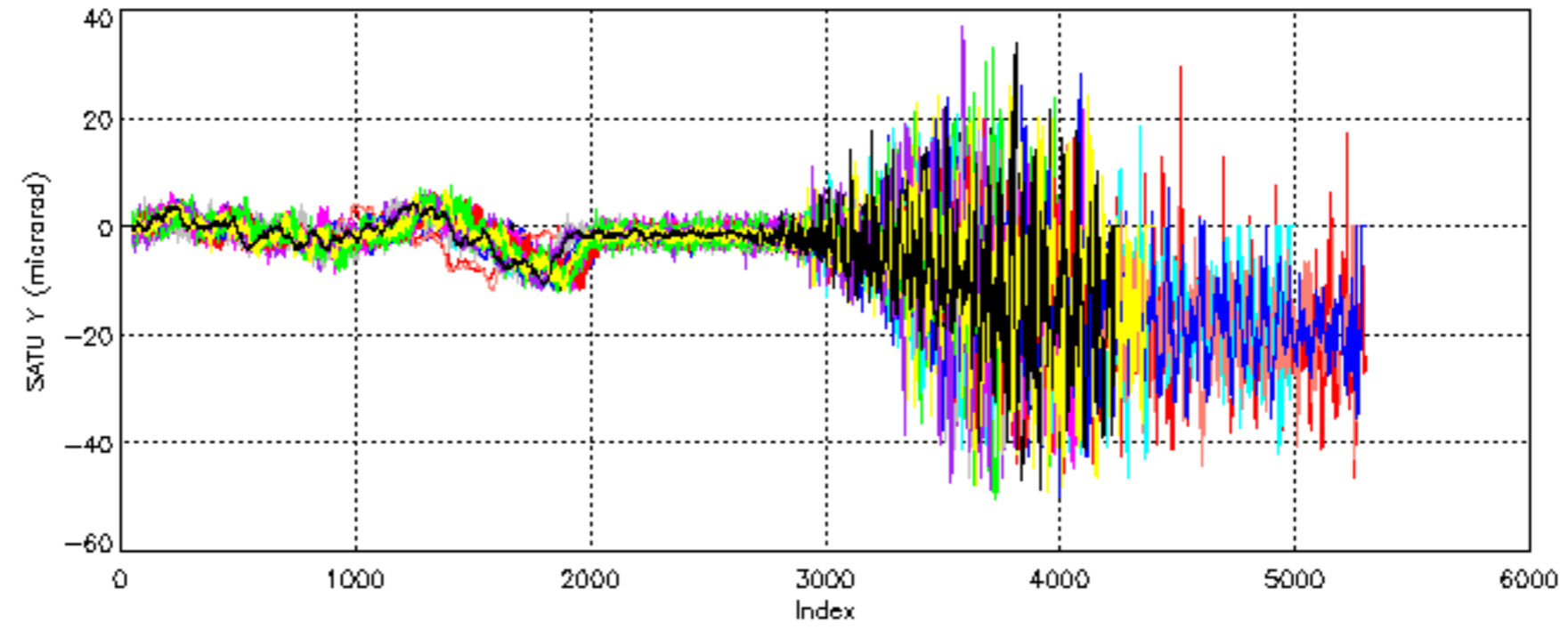
Tangent altitude at which the star is lost

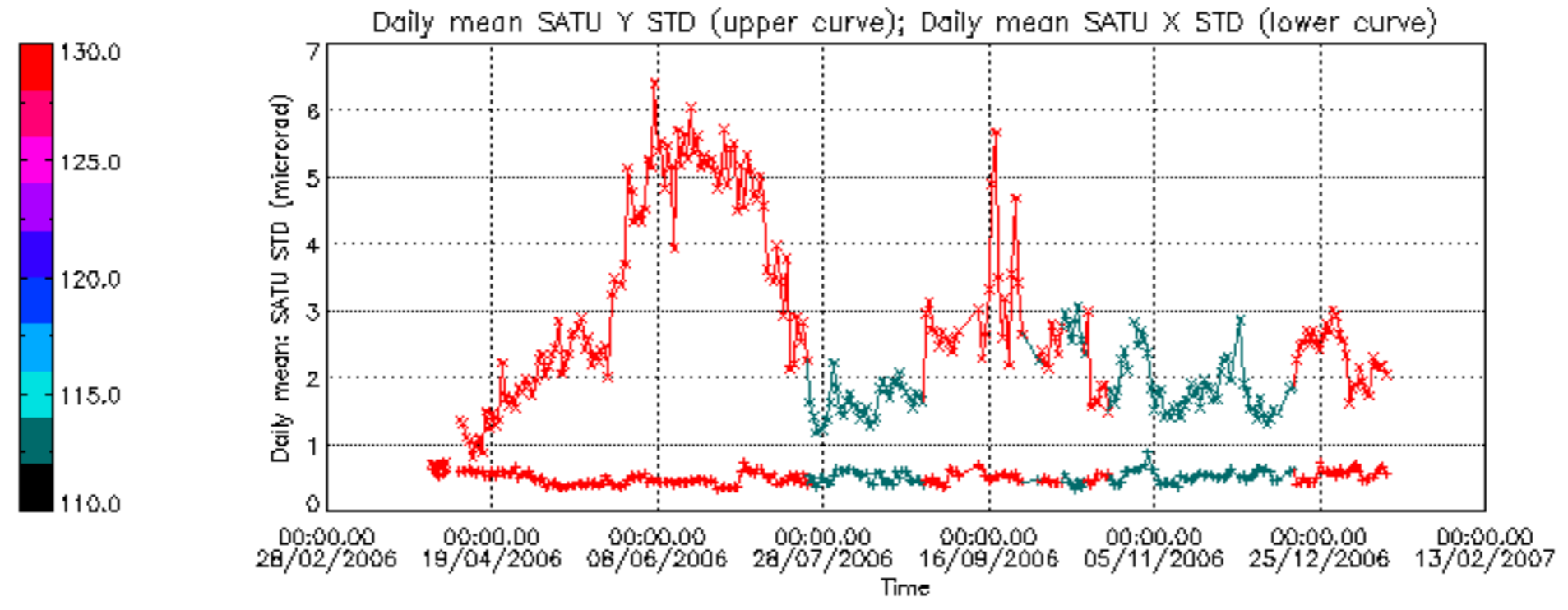


Tangent altitude at which the star is lost









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

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

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 2; -2114.0; 01-JAN-2007 03:58:08; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;25294
 3; -1614.0; 01-JAN-2007 04:06:28; Bright; 28.0; 133; 40Zet Her ; 2.81; 6000;occ; 56; 0;25294
 4; -1490.3; 01-JAN-2007 04:08:32; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;25294
 5; -1145.6; 01-JAN-2007 04:14:17; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;25294
 6; -842.4; 01-JAN-2007 04:19:20; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;25294
 7; -683.3; 01-JAN-2007 04:21:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;25294
 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
 10; -103.8; 01-JAN-2007 04:31:38; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 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
29; 3423.2; 01-JAN-2007 05:30:25; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;25295
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3; -1614.0; 01-JAN-2007 05:47:04; Bright; 28.0; 133; 40Zet Her ; 2.81; 6000;occ; 56; 0;25295
4; -1490.2; 01-JAN-2007 05:49:08; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;25295
5; -1145.4; 01-JAN-2007 05:54:53; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;25295
6; -841.9; 01-JAN-2007 05:59:56; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25295
7; -682.8; 01-JAN-2007 06:02:35; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;25295
8; -280.4; 01-JAN-2007 06:09:18; Dark ; 36.5; 109; Bet Lup ; 2.68; 26000;occ; 73; 0;25295
9; -191.9; 01-JAN-2007 06:10:46; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;25295
10; -103.2; 01-JAN-2007 06:12:15; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25295
11; 39.8; 01-JAN-2007 06:14:38; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25296
12; 229.8; 01-JAN-2007 06:17:48; Dark ; 50.5; 12; Alp1Cru ; 0.77; 30000;occ; 101; 0;25296
13; 430.8; 01-JAN-2007 06:21:09; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25296
14; 547.5; 01-JAN-2007 06:23:06; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25296
15; 630.9; 01-JAN-2007 06:24:29; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;25296
16; 733.1; 01-JAN-2007 06:26:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25296
17; 979.1; 01-JAN-2007 06:30:17; Dark ; 43.5; 2; Alp Car ;-0.74; 7000;occ; 87; 0;25296
18; 1172.8; 01-JAN-2007 06:33:31; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;25296
19; 1341.0; 01-JAN-2007 06:36:19; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;25296
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22; 1881.6; 01-JAN-2007 06:45:20; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;25296
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25; 2397.5; 01-JAN-2007 06:53:56; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;25296
26; 2472.6; 01-JAN-2007 06:55:11; Bright; 38.5; 114; 3Iot Aur ; 2.69; 4600;occ; 77; 0;25296
27; 2567.5; 01-JAN-2007 06:56:46; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25296
28; 2692.9; 01-JAN-2007 06:58:51; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;25296
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3; 1343.1; 01-JAN-2007 20:01:09; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;25304
4; 1582.7; 01-JAN-2007 20:05:08; Dark ; 33.0; 1; 9Alp CMA ;-1.44; 11000;occ; 66; 0;25304
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7; 110.8; 12-JAN-2007 08:50:59; Dark ; 37.5; 10; Bet Cen ; 0.61; 28000;occ; 75; 0;25455
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11; 3924.0; 12-JAN-2007 09:54:32; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;25455
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28; 7025.6; 12-JAN-2007 10:46:14; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;25455
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11; 3670.9; 12-JAN-2007 11:30:55; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25456
12; 3924.0; 12-JAN-2007 11:35:08; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;25456
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2; 1467.3; 12-JAN-2007 15:55:59; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;25459
3; 1602.8; 12-JAN-2007 15:58:15; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;25459
4; 1751.4; 12-JAN-2007 16:00:43; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25459
5; 1820.8; 12-JAN-2007 16:01:53; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25459
6; 1898.7; 12-JAN-2007 16:03:11; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;25459
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8; 2193.3; 12-JAN-2007 16:08:05; Dark ; 36.0; 44; 24Gam Gem ; 1.93; 11000;occ; 72; 0;25459
9; 2271.2; 12-JAN-2007 16:09:23; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25459
10; 2399.7; 12-JAN-2007 16:11:32; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25459
11; 2490.8; 12-JAN-2007 16:13:03; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;25459
12; 2674.5; 12-JAN-2007 16:16:06; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;25459
13; 3424.8; 12-JAN-2007 16:28:37; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;25459
14; 3670.4; 12-JAN-2007 16:32:42; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;25459
15; 3923.8; 12-JAN-2007 16:36:56; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;25459
16; 4072.5; 12-JAN-2007 16:39:24; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;25459
17; 4447.5; 12-JAN-2007 16:45:39; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;25459
18; 4630.6; 12-JAN-2007 16:48:43; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;25459
19; 5080.6; 12-JAN-2007 16:56:13; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25459
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21; 5432.4; 12-JAN-2007 17:02:04; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;25459
22; 5740.9; 12-JAN-2007 17:07:13; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;25459
23; 5840.6; 12-JAN-2007 17:08:53; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;25459
24; 5931.2; 12-JAN-2007 17:10:23; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25459
25; 6046.5; 12-JAN-2007 17:12:18; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;25459
26; 6149.2; 12-JAN-2007 17:14:01; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;25459
27; 6303.7; 12-JAN-2007 17:16:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25459
28; 6550.5; 12-JAN-2007 17:20:42; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25459
29; 6639.9; 12-JAN-2007 17:22:12; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;25459
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31; 6828.4; 12-JAN-2007 17:25:20; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;25459
32; 7027.3; 12-JAN-2007 17:28:39; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25459
33; 7156.8; 12-JAN-2007 17:30:49; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;25459

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7; 1820.9; 12-JAN-2007 17:42:29; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25460
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16; 3670.2; 12-JAN-2007 18:13:18; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;25460
17; 3923.7; 12-JAN-2007 18:17:32; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;25460
18; 4072.7; 12-JAN-2007 18:20:01; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;25460
19; 4447.5; 12-JAN-2007 18:26:16; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;25460
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21; 5080.9; 12-JAN-2007 18:36:49; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25460
22; 5165.8; 12-JAN-2007 18:38:14; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;25460
23; 5432.7; 12-JAN-2007 18:42:41; Dark ; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;25460
24; 5741.4; 12-JAN-2007 18:47:49; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;25460
25; 5841.2; 12-JAN-2007 18:49:29; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;25460
26; 5931.8; 12-JAN-2007 18:51:00; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25460
27; 6047.3; 12-JAN-2007 18:52:55; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25460
28; 6149.6; 12-JAN-2007 18:54:38; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;25460
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31; 6640.3; 12-JAN-2007 19:02:48; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;25460
32; 6749.7; 12-JAN-2007 19:04:38; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;25460
33; 6828.7; 12-JAN-2007 19:05:57; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;25460

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15; 2491.2; 12-JAN-2007 19:34:15; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25461
16; 2674.2; 12-JAN-2007 19:37:18; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;25461
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22; 4631.0; 12-JAN-2007 20:09:55; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;25461
23; 5081.3; 12-JAN-2007 20:17:25; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25461
24; 5166.1; 12-JAN-2007 20:18:50; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;25461
25; 5433.0; 12-JAN-2007 20:23:17; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0;25461
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33; 6640.5; 12-JAN-2007 20:43:24; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;25461
34; 6750.1; 12-JAN-2007 20:45:14; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;25461
35; 6829.0; 12-JAN-2007 20:46:33; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;25461

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3; -1962.9; 13-JAN-2007 02:43:00; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;25465
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5; -1404.1; 13-JAN-2007 02:52:19; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;25465
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23; 1468.7; 13-JAN-2007 03:40:12; Dark ; 41.5; 179; 240mi2CMa ; 3.03; 24000;occ; 83; 0;25466
24; 1603.9; 13-JAN-2007 03:42:27; Dark ; 44.5; 1; 9Alp CMa ; -1.44; 11000;occ; 89; 0;25466
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26; 1822.2; 13-JAN-2007 03:46:06; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25466
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29; 2192.6; 13-JAN-2007 03:52:16; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;25466
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31; 2400.4; 13-JAN-2007 03:55:44; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25466
32; 2492.2; 13-JAN-2007 03:57:16; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;25466
33; 2673.9; 13-JAN-2007 04:00:17; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25466
34; 3424.9; 13-JAN-2007 04:12:48; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;25466

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3;-1962.5; 13-JAN-2007 04:23:37; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;25466
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19; 994.2; 13-JAN-2007 05:12:54; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;25467
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22; 1382.7; 13-JAN-2007 05:19:22; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;25467
23; 1468.7; 13-JAN-2007 05:20:48; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;25467
24; 1604.0; 13-JAN-2007 05:23:03; Dark ; 48.5; 1; 9Alp CMa ; -1.44; 11000;occ; 97; 0;25467
25; 1752.7; 13-JAN-2007 05:25:32; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25467
26; 1822.2; 13-JAN-2007 05:26:42; Dark ; 39.0; 125; 44Iot Ori ; 2.77; 30000;occ; 78; 0;25467
27; 1899.9; 13-JAN-2007 05:27:59; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;25467
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7;	-277.0;	15-JAN-2007 05:29:04;	Dark ;	39.0;	131;	Gam Lup ;	2.80;	26000;occ;	78;	0;25495
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9;	74.6;	15-JAN-2007 05:34:55;	Dark ;	48.5;	4;	Alp1Cen ;	-0.01;	5800;occ;	97;	0;25496
10;	277.2;	15-JAN-2007 05:38:18;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;25496
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20;	1757.3;	15-JAN-2007 06:02:58;	Dark ;	41.0;	56;	53Kap Ori ;	2.07;	30000;occ;	82;	0;25496
21;	1827.3;	15-JAN-2007 06:04:08;	Dark ;	38.0;	125;	44Iot Ori ;	2.77;	30000;occ;	76;	0;25496
22;	1904.9;	15-JAN-2007 06:05:26;	Dark ;	42.0;	30;	46Eps Ori ;	1.69;	30000;occ;	84;	0;25496
23;	2038.4;	15-JAN-2007 06:07:39;	Dark ;	52.0;	14;	58Alp Ori ;	0.87;	3000;occ;	104;	0;25496
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3;	1237.4;	15-JAN-2007 20:59:41;	Dark ;	41.0;	117;	Pi Pup ;	2.71;	3800;occ;	82;	0;25505
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22;	2672.0;	15-JAN-2007 23:04:12;	Bright;	35.5;	42;	34Bet Aur ;	1.90;	10200;occ;	71;	0;25506
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2;	755.7;	19-JAN-2007	10:22:11;	Dark	;	43.5;	71;	Iot Car	;	2.25;	7700;occ;	87;	0;	25556
3;	866.4;	19-JAN-2007	10:24:02;	Dark	;	41.0;	46;	Del Vel	;	1.95;	10600;occ;	82;	0;	25556
4;	1032.8;	19-JAN-2007	10:26:48;	Dark	;	51.5;	2;	Alp Car	;	-0.74;	7000;occ;	103;	0;	25556
5;	1154.5;	19-JAN-2007	10:28:50;	Dark	;	40.5;	70;	Zet Pup	;	2.25;	39000;occ;	81;	0;	25556
6;	1250.0;	19-JAN-2007	10:30:25;	Dark	;	42.5;	117;	Pi Pup	;	2.71;	3800;occ;	85;	0;	25556
7;	1400.7;	19-JAN-2007	10:32:56;	Dark	;	42.5;	23;	21Eps CMa	;	1.50;	26000;occ;	85;	0;	25556
8;	1485.1;	19-JAN-2007	10:34:20;	Dark	;	39.0;	179;	240mi2CMa	;	3.03;	24000;occ;	78;	0;	25556
9;	1616.5;	19-JAN-2007	10:36:32;	Dark	;	51.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	102;	0;	25556
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2;	1838.9;	19-JAN-2007	10:40:14;	Dark	;	39.0;	125;	44Iot Ori	;	2.77;	30000;occ;	78;	0;	25556
3;	1916.4;	19-JAN-2007	10:41:32;	Dark	;	40.0;	30;	46Eps Ori	;	1.69;	30000;occ;	80;	0;	25556
4;	2046.2;	19-JAN-2007	10:43:42;	Dark	;	52.0;	14;	58Alp Ori	;	0.87;	3000;occ;	104;	0;	25556
5;	2186.9;	19-JAN-2007	10:46:02;	Dark	;	43.5;	44;	24Gam Gem	;	1.93;	11000;occ;	87;	0;	25556
6;	2291.4;	19-JAN-2007	10:47:47;	Bright;		39.0;	151;	13Mu Gem	;	2.89;	3000;occ;	78;	0;	25556
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
9;	2672.0;	19-JAN-2007	10:54:07;	Bright;		35.5;	42;	34Bet Aur	;	1.90;	10200;occ;	71;	0;	25556
10;	3425.6;	19-JAN-2007	11:06:41;	Bright;		36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	25556
11;	4081.2;	19-JAN-2007	11:17:37;	Bright;		36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	25556
12;	4274.7;	19-JAN-2007	11:20:50;	Bright;		36.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	73;	0;	25556
13;	4752.6;	19-JAN-2007	11:28:48;	Bright;		33.0;	59;	55Alp Oph	;	2.08;	8900;occ;	66;	0;	25556
14;	4879.4;	19-JAN-2007	11:30:55;	Bright;		32.5;	126;	60Bet Oph	;	2.77;	4250;occ;	65;	0;	25556
15;	5200.8;	19-JAN-2007	11:36:16;	Bright;		55.0;	98;	13Zet Oph	;	2.57;	30000;occ;	110;	0;	25556
16;	5469.2;	19-JAN-2007	11:40:45;	Dark	;	50.0;	16;	21Alp Sco	;	1.02;	3000;occ;	100;	0;	25556
17;	5564.7;	19-JAN-2007	11:42:20;	Dark	;	41.0;	75;	26Eps Sco	;	2.29;	4250;occ;	82;	0;	25556
18;	5792.5;	19-JAN-2007	11:46:08;	Dark	;	39.0;	131;	Gam Lup	;	2.80;	26000;occ;	78;	0;	25556
19;	6138.0;	19-JAN-2007	11:51:53;	Dark	;	45.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	91;	0;	25556
20;	6329.3;	19-JAN-2007	11:55:05;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25556
21;	6669.7;	19-JAN-2007	12:00:45;	Dark	;	37.0;	29;	Bet Car	;	1.67;	10200;occ;	74;	0;	25556
22;	6791.9;	19-JAN-2007	12:02:47;	Dark	;	40.0;	71;	Iot Car	;	2.25;	7700;occ;	80;	0;	25556
23;	6902.6;	19-JAN-2007	12:04:38;	Dark	;	42.0;	46;	Del Vel	;	1.95;	10600;occ;	84;	0;	25556
24;	7068.9;	19-JAN-2007	12:07:24;	Dark	;	43.5;	2;	Alp Car	;	-0.74;	7000;occ;	87;	0;	25556
25;	7190.7;	19-JAN-2007	12:09:26;	Dark	;	42.0;	70;	Zet Pup	;	2.25;	39000;occ;	84;	0;	25556
26;	7286.2;	19-JAN-2007	12:11:01;	Dark	;	44.5;	117;	Pi Pup	;	2.71;	3800;occ;	89;	0;	25556
27;	7436.8;	19-JAN-2007	12:13:32;	Dark	;	40.5;	23;	21Eps CMa	;	1.50;	26000;occ;	81;	0;	25556
28;	7521.0;	19-JAN-2007	12:14:56;	Dark	;	39.5;	179;	240mi2CMa	;	3.03;	24000;occ;	79;	0;	25556
29;	7652.5;	19-JAN-2007	12:17:08;	Dark	;	31.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	62;	0;	25556

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2;	1767.9;	19-JAN-2007	12:19:39;	Dark	;	40.0;	56;	53Kap Ori	;	2.07;	30000;occ;	80;	0;	25557
3;	1839.1;	19-JAN-2007	12:20:50;	Dark	;	39.5;	125;	44Iot Ori	;	2.77;	30000;occ;	79;	0;	25557
4;	1916.5;	19-JAN-2007	12:22:08;	Dark	;	41.5;	30;	46Eps Ori	;	1.69;	30000;occ;	83;	0;	25557

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6; 2186.9; 19-JAN-2007 12:26:38; Dark ; 41.5; 44; 24Gam Gem ; 1.93; 11000;occ; 83; 0;25557
7; 2291.4; 19-JAN-2007 12:28:23; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;25557
8; 2414.5; 19-JAN-2007 12:30:26; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;25557
9; 2542.0; 19-JAN-2007 12:32:33; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;25557
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12; 4081.2; 19-JAN-2007 12:58:12; Bright; 46.5; 130; 23Bet Dra ; 2.80; 5800;occ; 93; 0;25557
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16; 5201.2; 19-JAN-2007 13:16:52; Bright; 42.0; 98; 13Zet Oph ; 2.57; 30000;occ; 84; 0;25557
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18; 5565.0; 19-JAN-2007 13:22:56; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;25557
19; 5793.2; 19-JAN-2007 13:26:44; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;25557
20; 6138.5; 19-JAN-2007 13:32:30; Dark ; 39.5; 4; Alp1Cen ; -0.01; 5800;occ; 79; 0;25557
21; 6329.6; 19-JAN-2007 13:35:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25557
22; 6670.1; 19-JAN-2007 13:41:21; Dark ; 46.5; 29; Bet Car ; 1.67; 10200;occ; 93; 0;25557
23; 6792.4; 19-JAN-2007 13:43:24; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;25557
24; 6903.1; 19-JAN-2007 13:45:14; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;25557
25; 7069.0; 19-JAN-2007 13:48:00; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;25557
26; 7191.1; 19-JAN-2007 13:50:02; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;25557
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28; 7437.0; 19-JAN-2007 13:54:08; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;25557
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6; 2186.9; 19-JAN-2007 14:07:14; Dark ; 40.5; 44; 24Gam Gem ; 1.93; 11000;occ; 81; 0;25558
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13; 4275.2; 19-JAN-2007 14:42:02; Bright; 33.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 66; 0;25558
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26; 7191.3; 19-JAN-2007 15:30:38; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;25558
27; 7286.6; 19-JAN-2007 15:32:14; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;25558
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3; 1616.9; 19-JAN-2007 15:38:20; Dark ; 46.5; 1; 9Alp CMa ; -1.44; 11000;occ; 93; 0;25559
4; 1768.4; 19-JAN-2007 15:40:51; Dark ; 40.0; 56; 53Kap Ori ; 2.07; 30000;occ; 80; 0;25559
5; 1917.0; 19-JAN-2007 15:43:20; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;25559
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7; 2186.8; 19-JAN-2007 15:47:50; Dark ; 41.0; 44; 24Gam Gem ; 1.93; 11000;occ; 82; 0;25559
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9; 2414.9; 19-JAN-2007 15:51:38; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25559
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11; 2672.1; 19-JAN-2007 15:55:55; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;25559
12; 3425.7; 19-JAN-2007 16:08:29; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;25559
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14; 4275.4; 19-JAN-2007 16:22:38; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;25559
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 19; 5565.8; 19-JAN-2007 16:44:09; Dark ; 38.0; 75; 26Eps Sco ; 2.29; 4250;occ; 76; 0;25559
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 5; 1617.1; 19-JAN-2007 17:18:56; Dark ; 46.0; 1; 9Alp CMA ;-1.44; 11000;occ; 92; 0;25560
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 13; 2672.2; 19-JAN-2007 17:36:31; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;25560
 14; 3425.8; 19-JAN-2007 17:49:05; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25560
 15; 4081.6; 19-JAN-2007 18:00:01; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;25560
 16; 4275.6; 19-JAN-2007 18:03:15; Bright; 33.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 66; 0;25560
 17; 4753.6; 19-JAN-2007 18:11:13; Bright; 33.5; 59; 55Alp Oph ; 2.08; 8900;occ; 67; 0;25560
 18; 4880.3; 19-JAN-2007 18:13:19; Bright; 32.5; 126; 60Bet Oph ; 2.77; 4250;occ; 65; 0;25560
 19; 5202.5; 19-JAN-2007 18:18:41; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;25560
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 21; 5566.2; 19-JAN-2007 18:24:45; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;25560
 22; 5795.0; 19-JAN-2007 18:28:34; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;25560
 23; 6140.0; 19-JAN-2007 18:34:19; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;25560
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 24; 6204.4; 28-JAN-2007 18:52:38; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 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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