

GOMOS Daily Report 01-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	03JAN2007 05:31:59
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (01JAN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (02JAN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

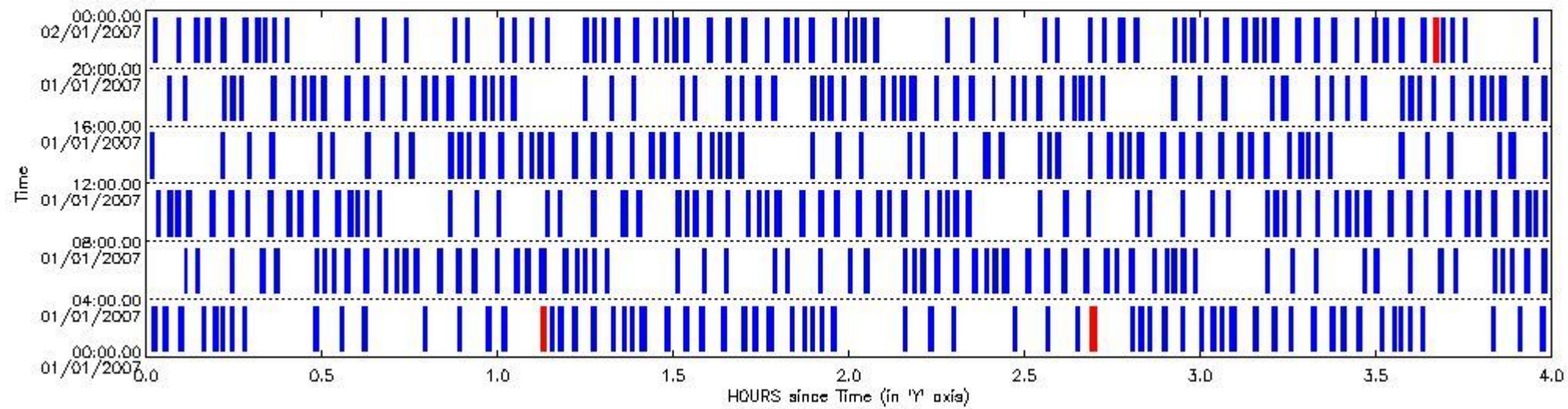
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

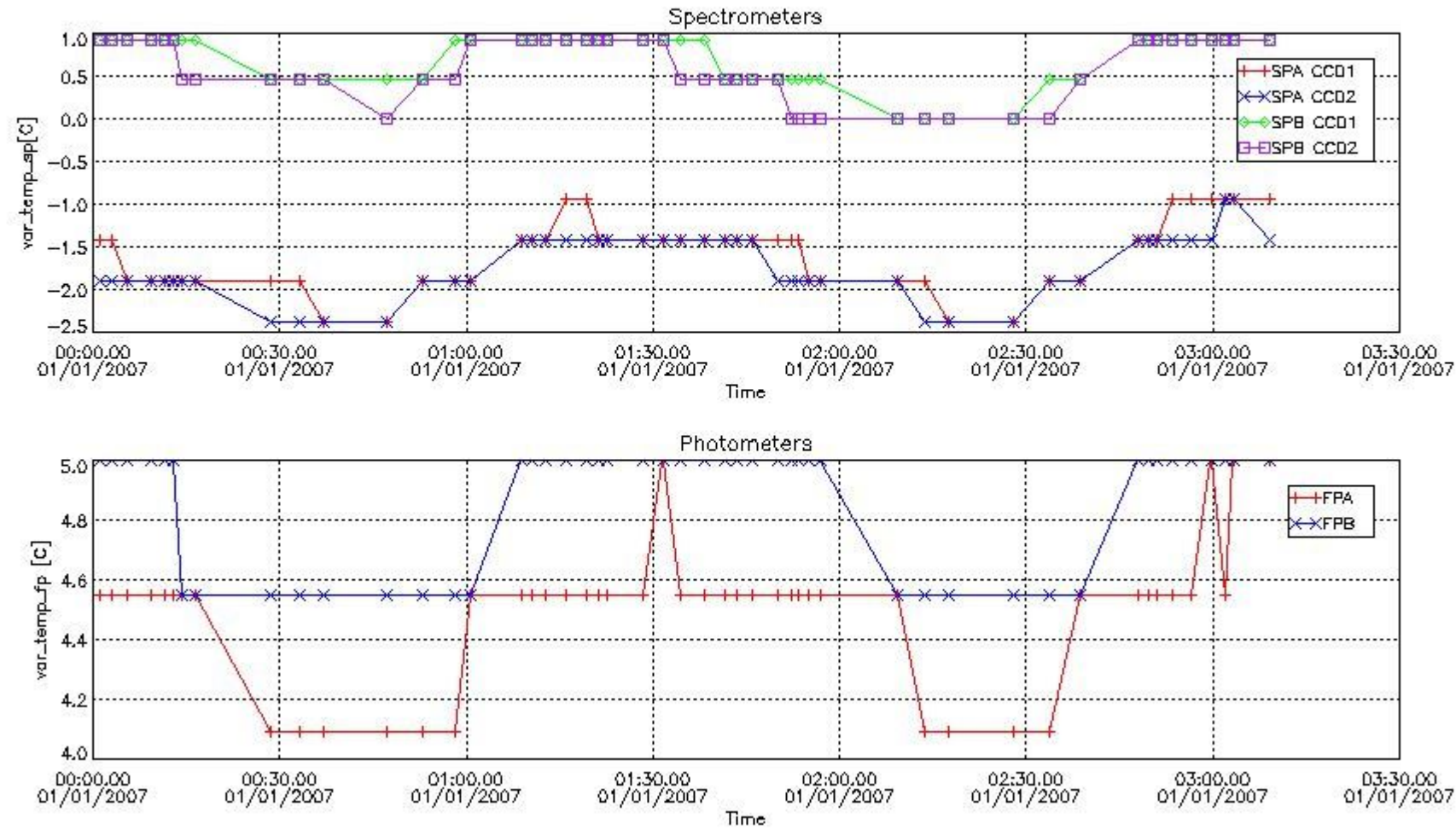
UTC start time	Star name	Star ID	Orbit
01-JAN-2007 01:07:22	BetLup	109	25292
01-JAN-2007 02:41:16	9Alp2Lib	122	25293
01-JAN-2007 23:39:47	12BetTau	28	25306

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_1PNPDE20070101_000104_000000472054_00188_25292_5618.N1	01-JAN-2007 00:01:04	Straylight	46.500	7	19Bet Ori	0.10000	14000.	93	25292	No
2	GOM_TRA_1PNPDE20070101_000256_000000442054_00188_25292_5619.N1	01-JAN-2007 00:02:56	Straylight	44.000	30	46Eps Ori	1.6940	30000.	88	25292	No
3	GOM_TRA_1PNPDE20070101_000528_000000512054_00188_25292_5620.N1	01-JAN-2007 00:05:28	Twilight_and_stray	50.500	14	58Alp Ori	0.87000	3000.0	101	25292	No
4	GOM_TRA_1PNPDE20070101_000926_000000362054_00188_25292_5621.N1	01-JAN-2007 00:09:26	Bright	36.000	176	23Zet Tau	3.0200	22000.	72	25292	No
5	GOM_TRA_1PNPDE20070101_001132_000000382054_00188_25292_5622.N1	01-JAN-2007 00:11:32	Bright	38.000	28	12Bet Tau	1.6500	15200.	76	25292	No
6	GOM_TRA_1PNPDE20070101_001247_000000372054_00188_25292_5623.N1	01-JAN-2007 00:12:47	Bright	37.000	114	3Iot Aur	2.6930	4600.0	74	25292	No
7	GOM_TRA_1PNPDE20070101_001423_000000372054_00188_25292_5624.N1	01-JAN-2007 00:14:23	Bright	37.000	107	37The Aur	2.6490	11000.	74	25292	No
8	GOM_TRA_1PNPDE20070101_001628_000000402054_00188_25292_5625.N1	01-JAN-2007 00:16:28	Bright	40.000	6	13Alp Aur	0.080000	3400.0	80	25292	No

9	GOM_TRA_1PNPDE20070101_002838_000000362054_00188_25292_5626.N1	01-JAN-2007 00:28:38	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	25292	No
10	GOM_TRA_1PNPDE20070101_003306_000000372054_00188_25292_5627.N1	01-JAN-2007 00:33:06	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	25292	No
11	GOM_TRA_1PNPDE20070101_003656_000000372054_00188_25292_5628.N1	01-JAN-2007 00:36:56	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	25292	No
12	GOM_TRA_1PNPDE20070101_004720_000000372054_00188_25292_5629.N1	01-JAN-2007 00:47:20	Bright	36.500	67	5Alp CrB	2.2210	11000.	73	25292	No
13	GOM_TRA_1PNPDE20070101_005304_000000362054_00188_25292_5630.N1	01-JAN-2007 00:53:04	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	25292	No
14	GOM_TRA_1PNPDE20070101_005807_000000372054_00188_25292_5631.N1	01-JAN-2007 00:58:07	Bright	36.500	104	27Bet Lib	2.6140	13100.	73	25292	No
15	GOM_TRA_1PNPDE20070101_010046_000000432054_00188_25292_5758.N1	01-JAN-2007 01:00:46	Twilight	42.500	122	9Alp2Lib	2.7470	9700.0	85	25292	No
16	GOM_TRA_1PNPDE20070101_010857_000000402054_00188_25292_5759.N1	01-JAN-2007 01:08:57	Dark	40.000	78	Alp Lup	2.3040	28000.	80	25292	No
17	GOM_TRA_1PNPDE20070101_011025_000000402054_00188_25292_5760.N1	01-JAN-2007 01:10:25	Dark	40.000	95	Zet Cen	2.5450	26000.	80	25292	No
18	GOM_TRA_1PNPDE20070101_011249_000000422054_00189_25293_5761.N1	01-JAN-2007 01:12:49	Dark	42.000	10	Bet Cen	0.61000	28000.	84	25293	No
19	GOM_TRA_1PNPDE20070101_011558_000000492054_00189_25293_5762.N1	01-JAN-2007 01:15:58	Dark	49.000	12	Alp1Cru	0.77500	30000.	98	25293	No
20	GOM_TRA_1PNPDE20070101_011919_000000392054_00189_25293_5763.N1	01-JAN-2007 01:19:19	Dark	38.500	124	The Car	2.7640	30000.	77	25293	No
21	GOM_TRA_1PNPDE20070101_012117_000000392054_00189_25293_5764.N1	01-JAN-2007 01:21:17	Dark	39.000	29	Bet Car	1.6720	10200.	78	25293	No
22	GOM_TRA_1PNPDE20070101_012240_000000402054_00189_25293_5765.N1	01-JAN-2007 01:22:40	Dark	39.500	71	lot Car	2.2460	7700.0	79	25293	No
23	GOM_TRA_1PNPDE20070101_012828_000000532054_00189_25293_5766.N1	01-JAN-2007 01:28:28	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	25293	No
24	GOM_TRA_1PNPDE20070101_013142_000000472054_00189_25293_5767.N1	01-JAN-2007 01:31:42	Dark	47.000	117	Pi Pup	2.7060	3800.0	94	25293	No
25	GOM_TRA_1PNPDE20070101_013430_000000472054_00189_25293_5768.N1	01-JAN-2007 01:34:30	Straylight	47.000	23	21Eps CMa	1.5020	26000.	94	25293	No
26	GOM_TRA_1PNPDE20070101_013819_000000432054_00189_25293_5769.N1	01-JAN-2007 01:38:19	Straylight	43.000	47	2Bet CMa	1.9760	28000.	86	25293	No
27	GOM_TRA_1PNPDE20070101_014140_000000452054_00189_25293_5770.N1	01-JAN-2007 01:41:40	Straylight	45.000	7	19Bet Ori	0.10000	14000.	90	25293	No
28	GOM_TRA_1PNPDE20070101_014332_000000432054_00189_25293_5771.N1	01-JAN-2007 01:43:32	Straylight	42.500	30	46Eps Ori	1.6940	30000.	85	25293	No
29	GOM_TRA_1PNPDE20070101_014604_000000532054_00189_25293_5772.N1	01-JAN-2007 01:46:04	Twilight	52.500	14	58Alp Ori	0.87000	3000.0	105	25293	No
30	GOM_TRA_1PNPDE20070101_015002_000000382054_00189_25293_5773.N1	01-JAN-2007 01:50:02	Bright	37.500	176	23Zet Tau	3.0200	22000.	75	25293	No
31	GOM_TRA_1PNPDE20070101_015208_000000392054_00189_25293_5774.N1	01-JAN-2007 01:52:08	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	25293	No
32	GOM_TRA_1PNPDE20070101_015323_000000382054_00189_25293_5775.N1	01-JAN-2007 01:53:23	Bright	38.000	114	3lot Aur	2.6930	4600.0	76	25293	No
33	GOM_TRA_1PNPDE20070101_015458_000000382054_00189_25293_5776.N1	01-JAN-2007 01:54:58	Bright	37.500	107	37The Aur	2.6490	11000.	75	25293	No
34	GOM_TRA_1PNPDE20070101_015703_000000412054_00189_25293_5777.N1	01-JAN-2007 01:57:03	Bright	41.000	6	13Alp Aur	0.080000	3400.0	82	25293	No
35	GOM_TRA_1PNPDE20070101_020913_000000342054_00189_25293_5778.N1	01-JAN-2007 02:09:13	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	25293	No
36	GOM_TRA_1PNPDE20070101_021342_000000382054_00189_25293_5918.N1	01-JAN-2007 02:13:42	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	25293	No
37	GOM_TRA_1PNPDE20070101_021732_000000362054_00189_25293_5919.N1	01-JAN-2007 02:17:32	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	25293	No
38	GOM_TRA_1PNPDE20070101_022756_000000372054_00189_25293_5920.N1	01-JAN-2007 02:27:56	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	25293	No
39	GOM_TRA_1PNPDE20070101_023340_000000362054_00189_25293_5921.N1	01-JAN-2007 02:33:40	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	25293	No
40	GOM_TRA_1PNPDE20070101_023844_000000372054_00189_25293_5922.N1	01-JAN-2007 02:38:44	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	25293	No
41	GOM_TRA_1PNPDE20070101_024805_000000382054_00189_25293_5923.N1	01-JAN-2007 02:48:05	Dark	38.000	109	Bet Lup	2.6770	26000.	76	25293	No
42	GOM_TRA_1PNPDE20070101_024933_000000382054_00189_25293_5924.N1	01-JAN-2007 02:49:33	Dark	37.500	78	Alp Lup	2.3040	28000.	75	25293	No
43	GOM_TRA_1PNPDE20070101_025102_000000392054_00189_25293_5925.N1	01-JAN-2007 02:51:02	Dark	39.000	95	Zet Cen	2.5450	26000.	78	25293	No
44	GOM_TRA_1PNPDE20070101_025325_000000472054_00190_25294_5926.N1	01-JAN-2007 02:53:25	Dark	46.500	10	Bet Cen	0.61000	28000.	93	25294	No
45	GOM_TRA_1PNPDE20070101_025635_000000422054_00190_25294_5927.N1	01-JAN-2007 02:56:35	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	25294	No
46	GOM_TRA_1PNPDE20070101_025956_000000392054_00190_25294_5928.N1	01-JAN-2007 02:59:56	Dark	38.500	124	The Car	2.7640	30000.	77	25294	No
47	GOM_TRA_1PNPDE20070101_030153_000000392054_00190_25294_5929.N1	01-JAN-2007 03:01:53	Dark	38.500	29	Bet Car	1.6720	10200.	77	25294	No
48	GOM_TRA_1PNPDE20070101_030316_000000422054_00190_25294_5930.N1	01-JAN-2007 03:03:16	Dark	41.500	71	lot Car	2.2460	7700.0	83	25294	No
49	GOM_TRA_1PNPDE20070101_030905_000000442054_00190_25294_5931.N1	01-JAN-2007 03:09:05	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	25294	No

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



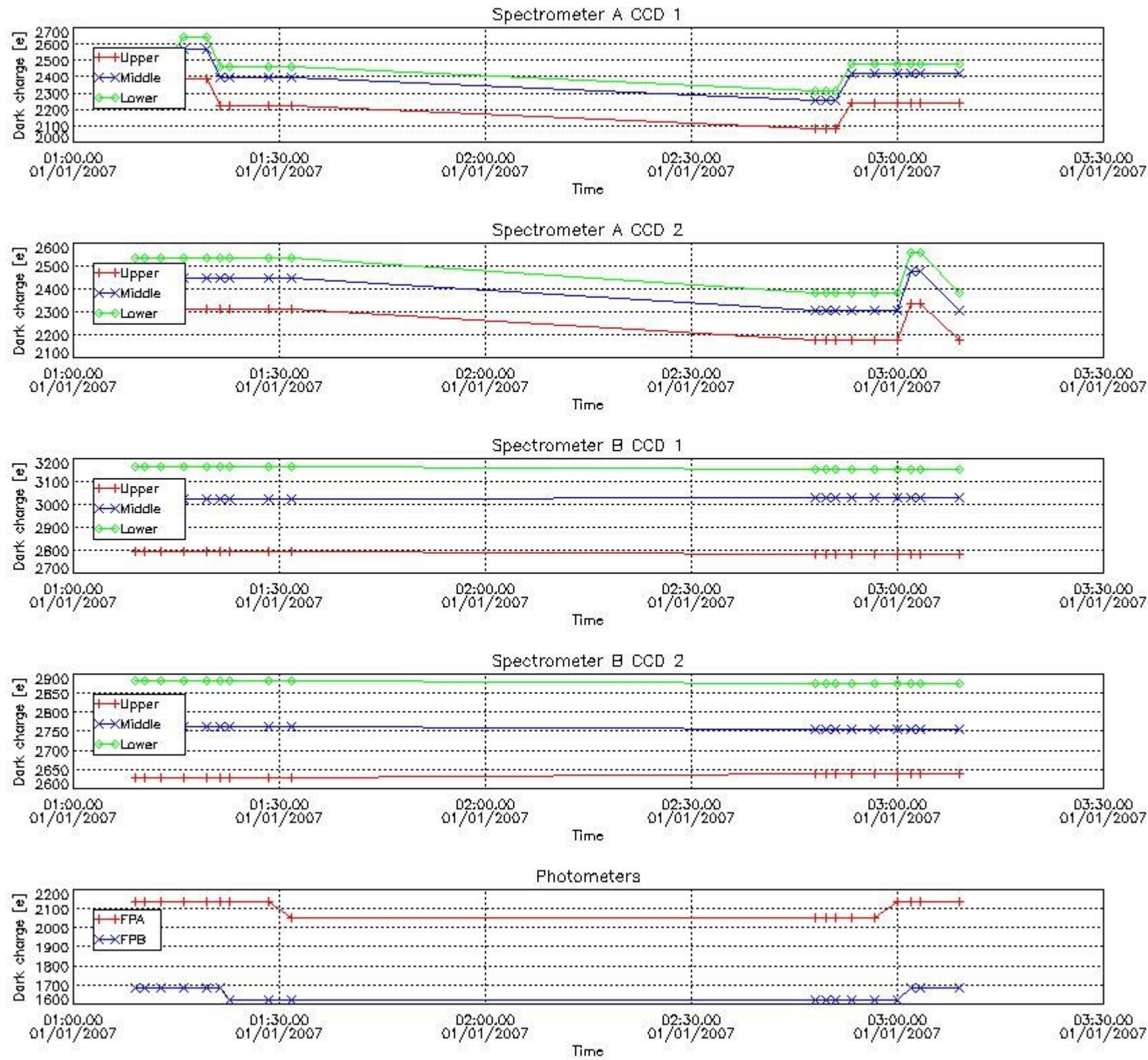
4. Overview of dark signal processing per product

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



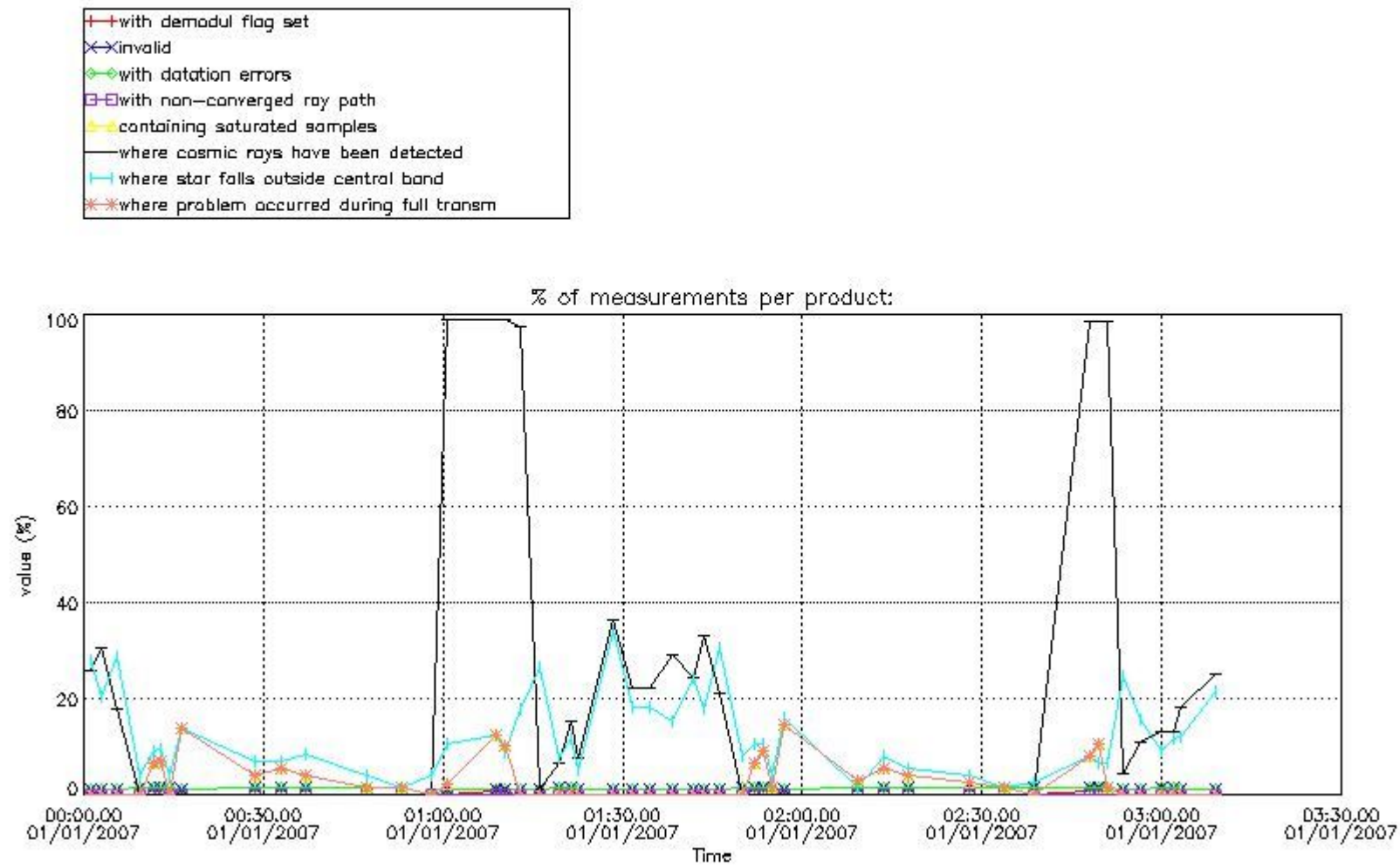
5. Demodulation flag and quality information monitoring

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.

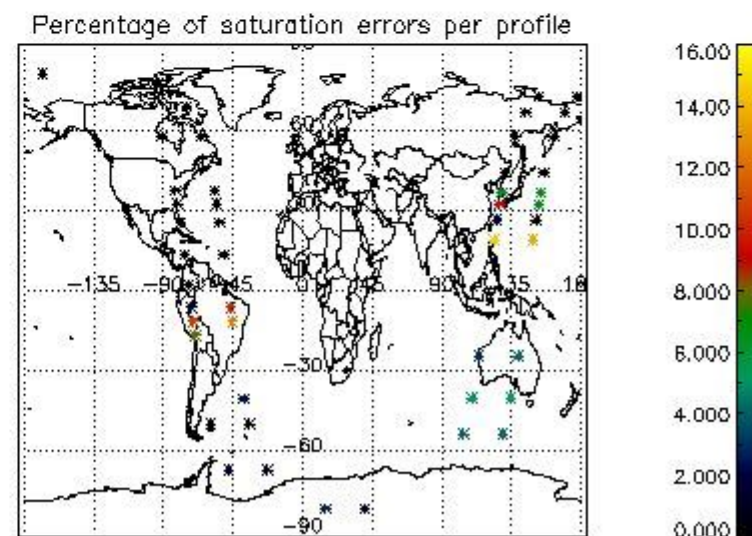
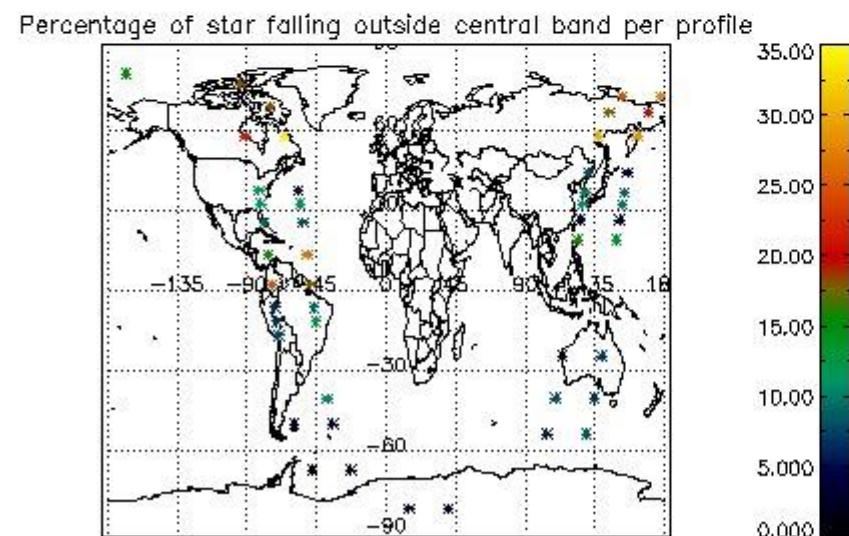
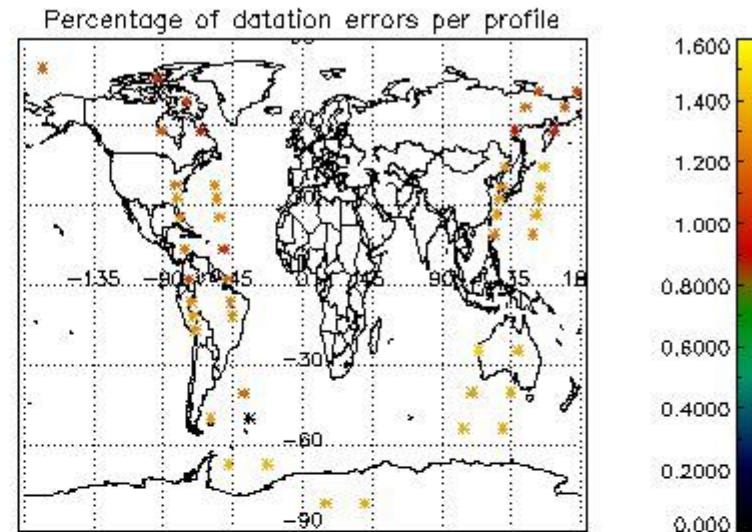
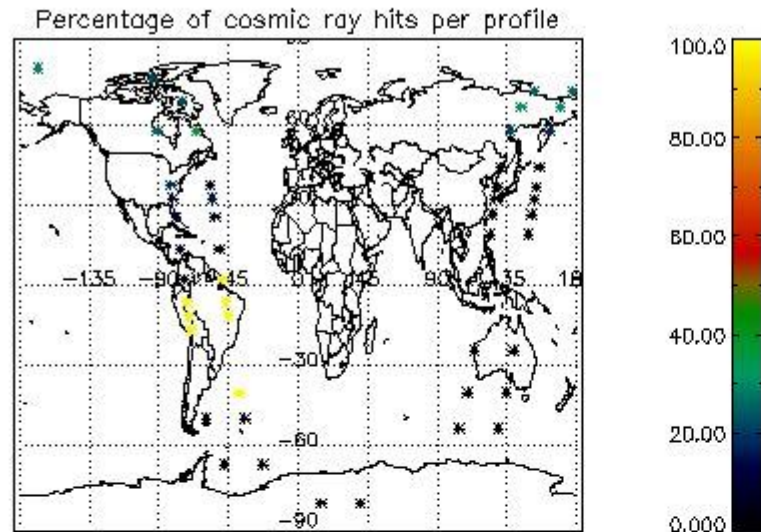
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.2857 %
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)



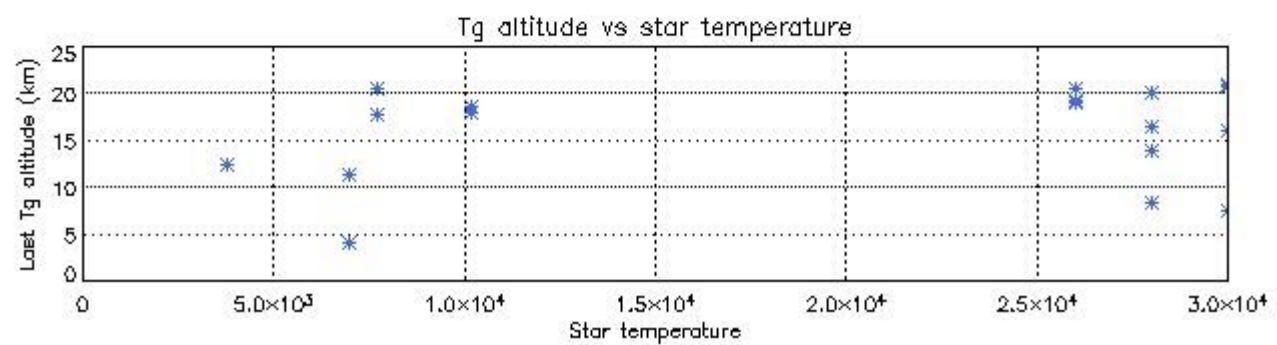
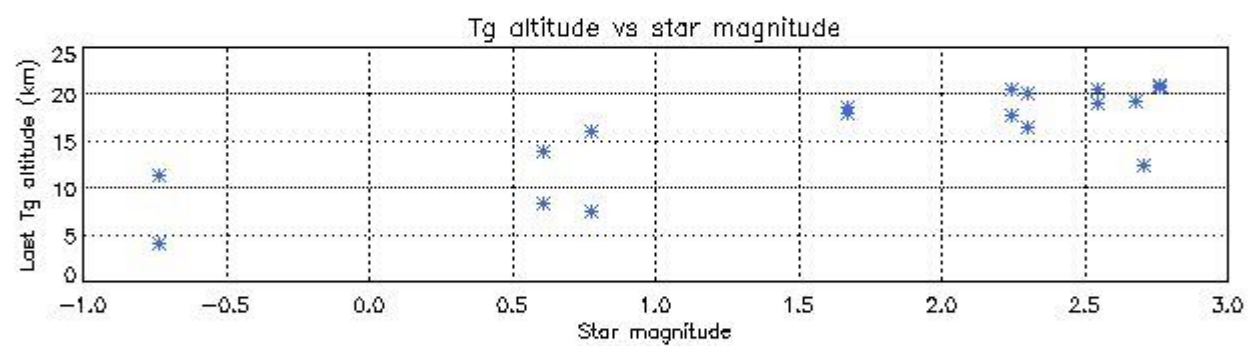
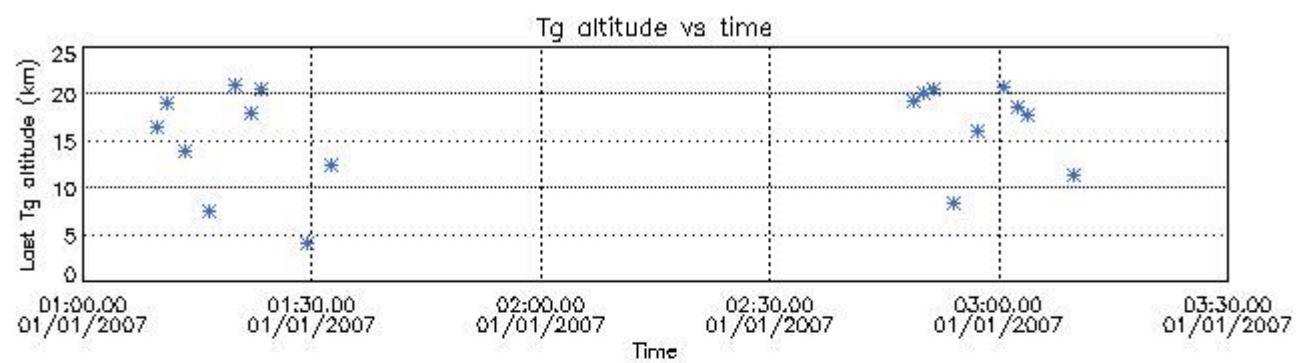
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.854	20.484	NaN
St. deviation:	5.1276	3.0133	NaN
Maximum:	20.838	25.169	NaN
Minimum:	4.1377	13.803	NaN
Number of data:	18.000	22.000	NaN

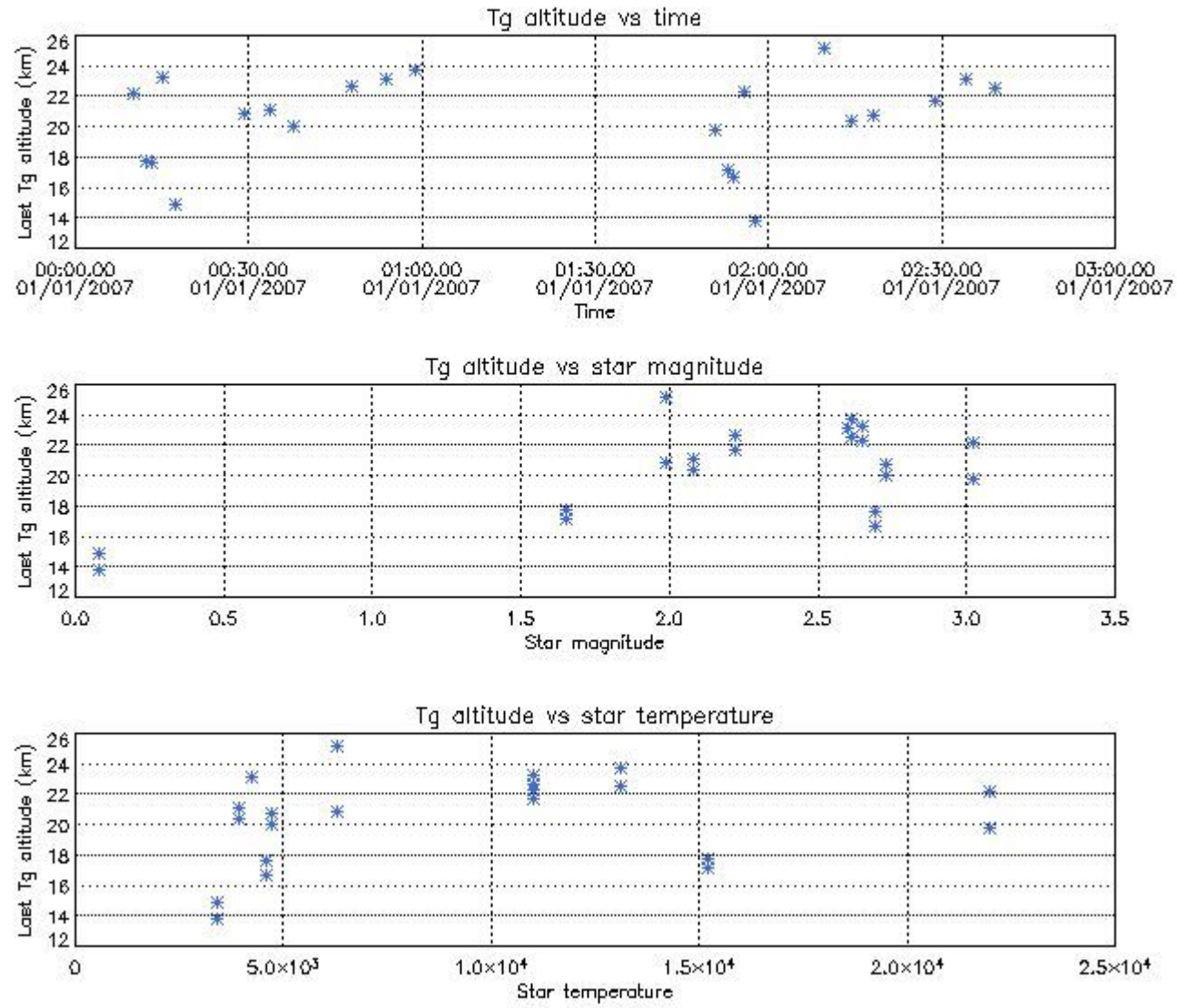
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

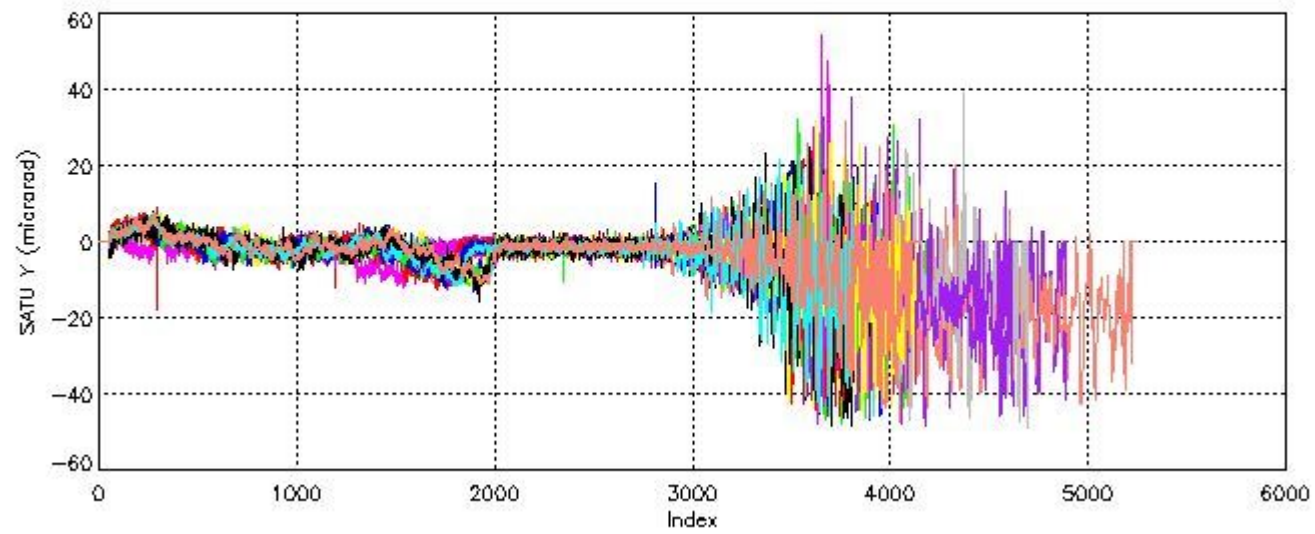
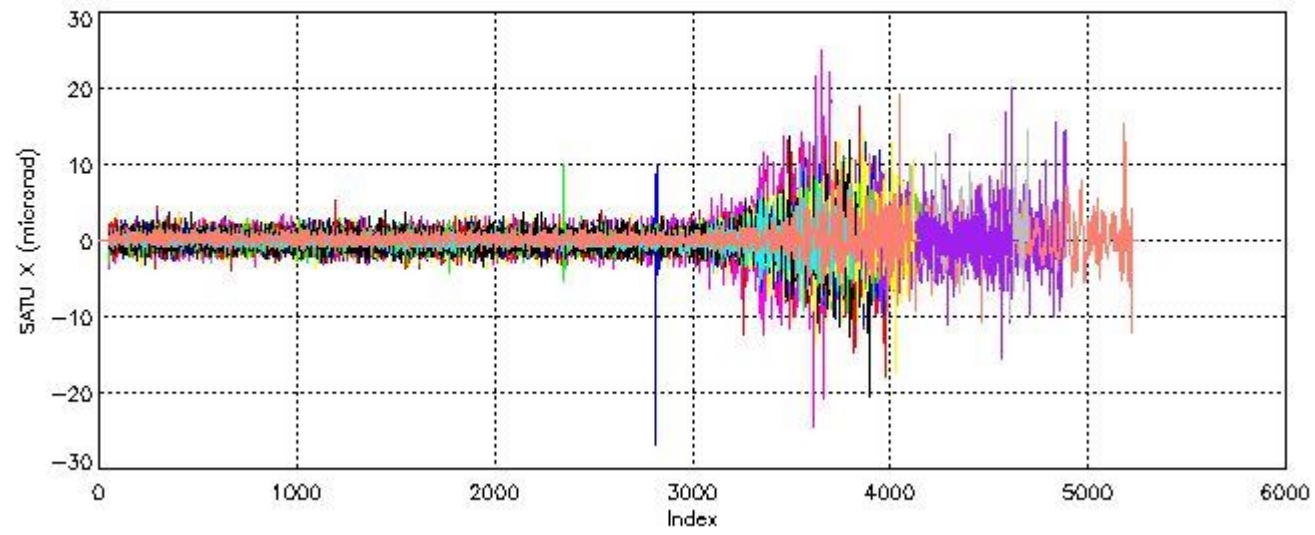


7. Star Acquisition and Tracking Unit (SATU)

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:	0.13446	0.32512	0.087350	-0.58803
St. deviation:	0.56735	2.5470	0.73434	2.0553
Maximum:	4.4000	8.7000	5.2000	9.0000
Minimum:	-3.9000	-18.100	-5.5000	-8.0000

Number of data:	16650.	16650.	18400.	18400.
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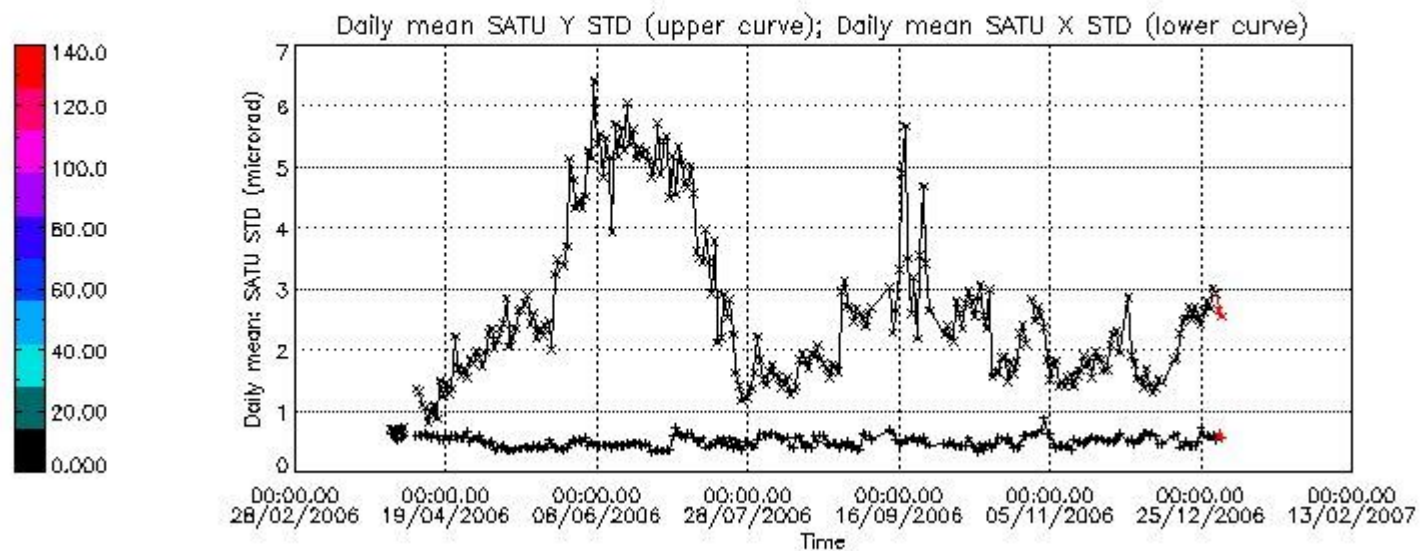
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

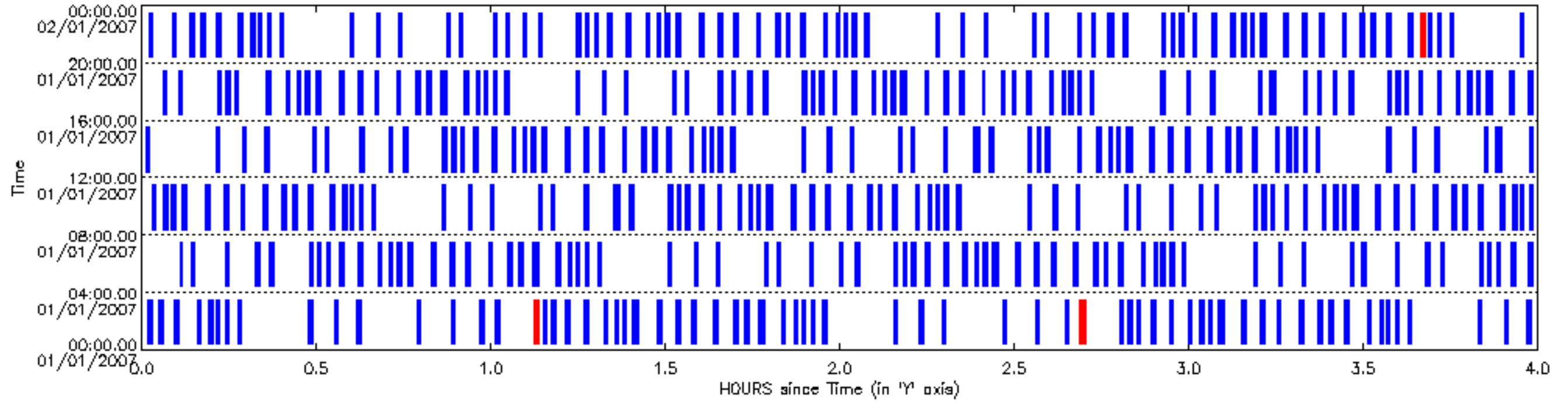
Lower curve: STD of SATU X axis

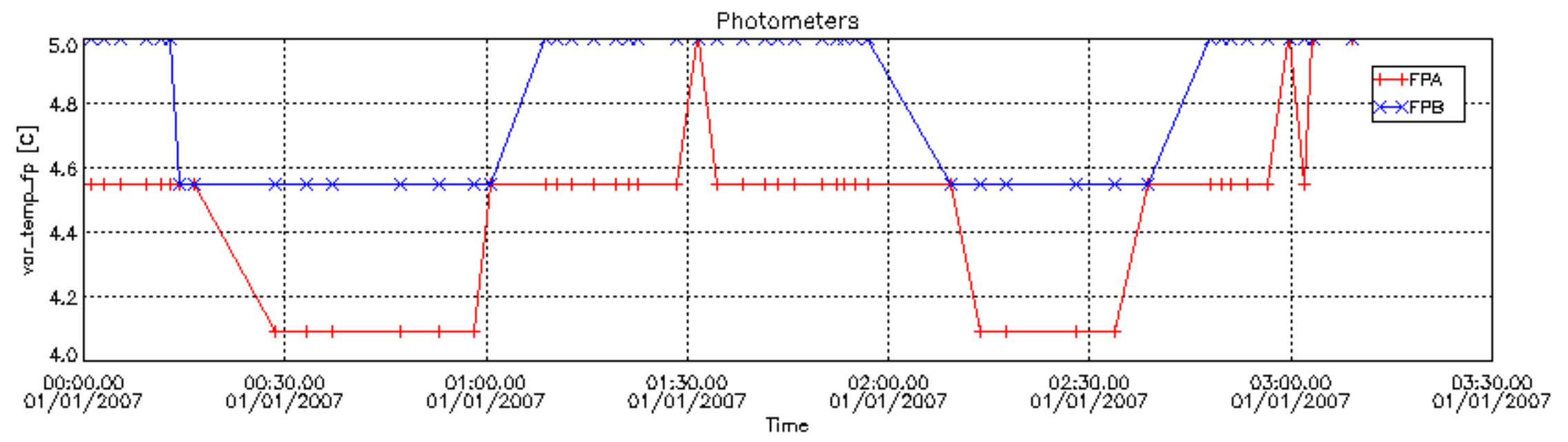
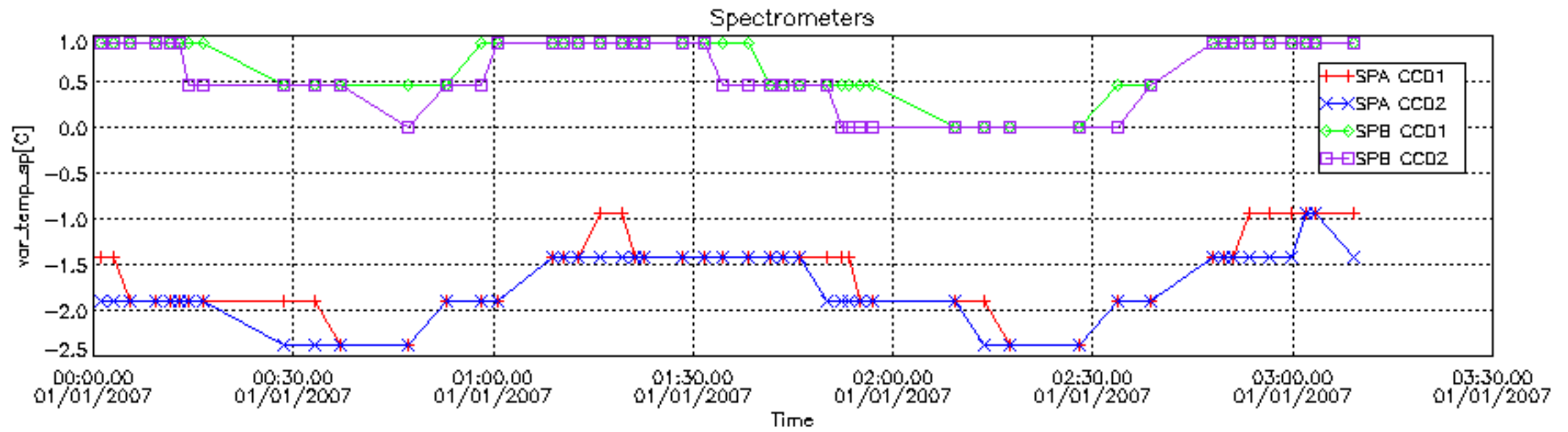


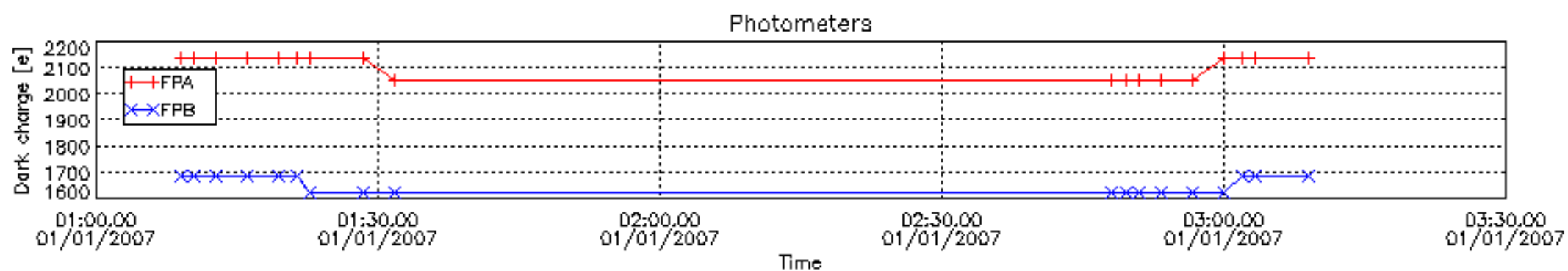
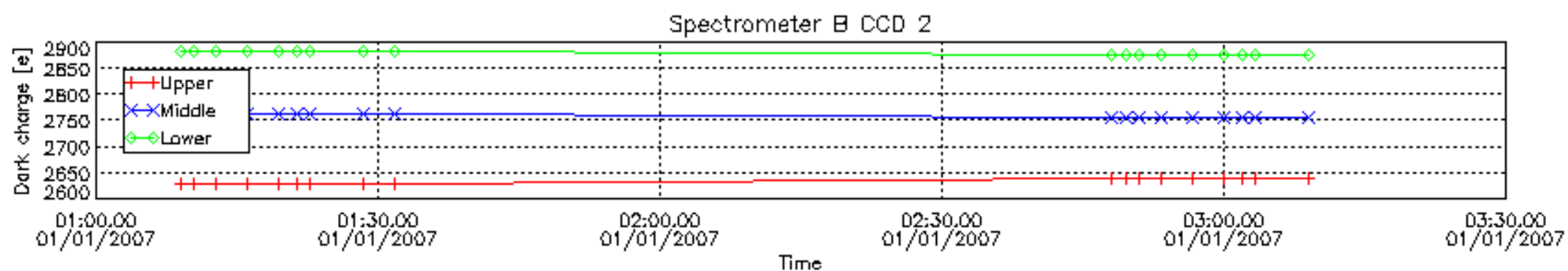
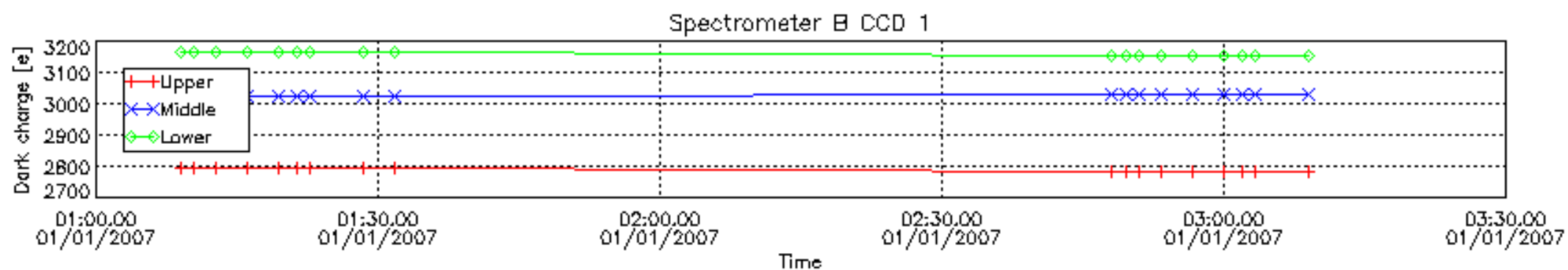
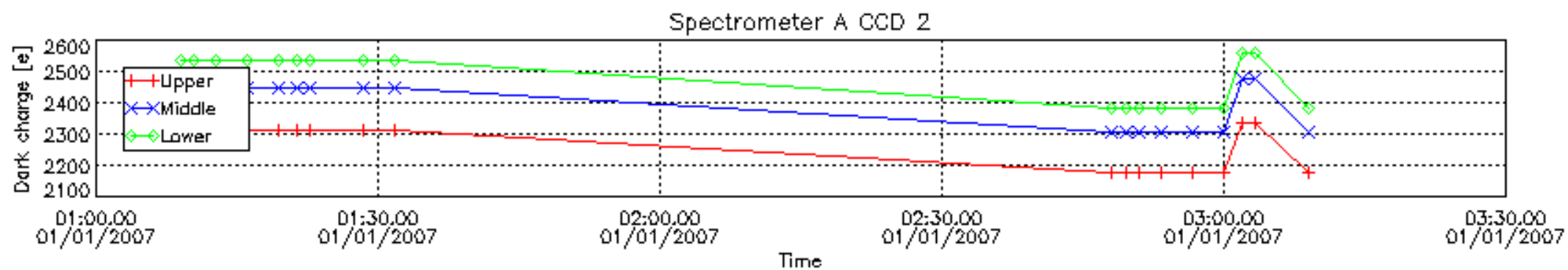
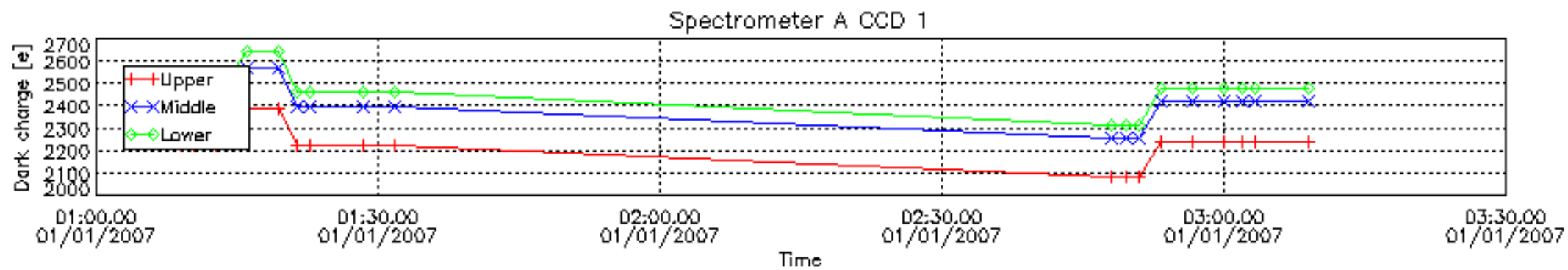
8. Auxiliary Data Files used for the production reported in section 2.4

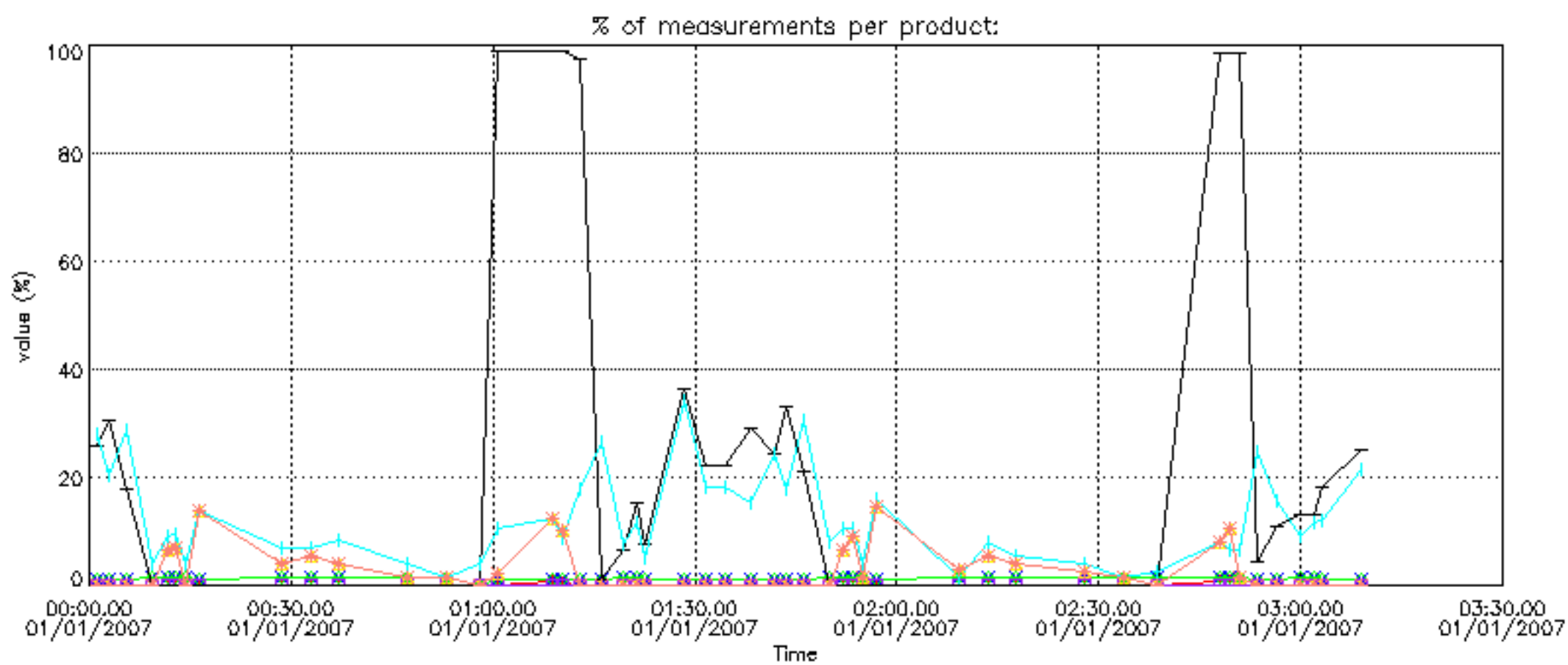
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-JAN-2007 00:01:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20061222_110846_20061221_000000_20100101_000000	1	01-JAN-2007 00:01:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-JAN-2007 00:01:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-JAN-2007 00:01:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-JAN-2007 00:01:04
ECMWF_FILE	AUX_ECF_AXNECM20061231_062145_20061231_210000_20070101_090000	1	01-JAN-2007 00:01:04
OPTIONAL_ECMWF_FILE	MISSING	1	01-JAN-2007 00:01:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20061231_213651_000057382054_00186_25290_2480.N1	1	01-JAN-2007 00:01:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20061231_231748_000057382054_00187_25291_2481.N1	15	01-JAN-2007 01:00:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070101_005845_000041442054_00188_25292_2482.N1	36	01-JAN-2007 02:13:42

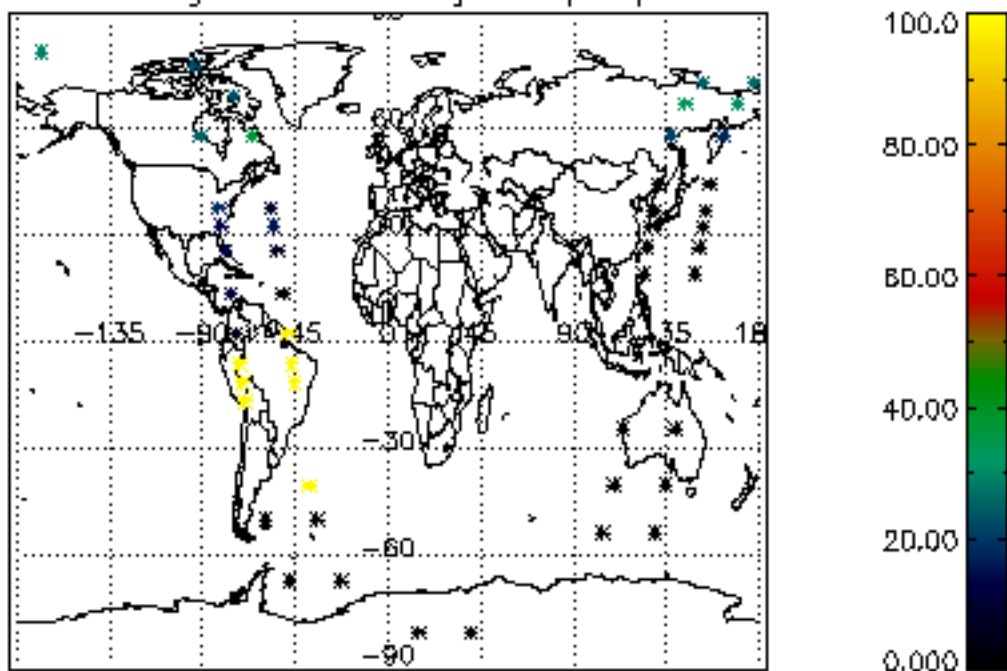




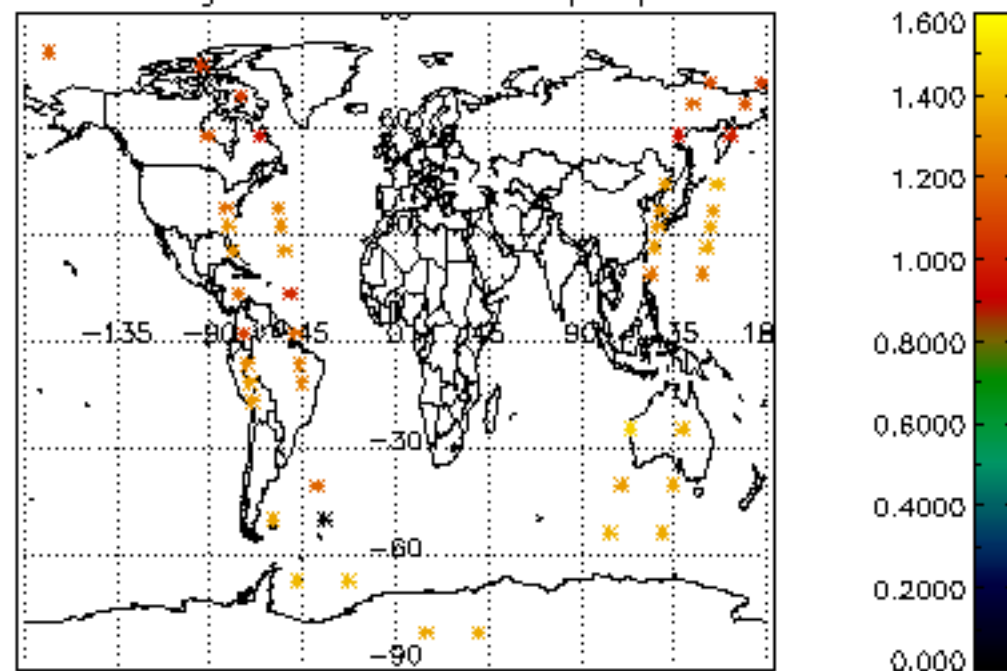




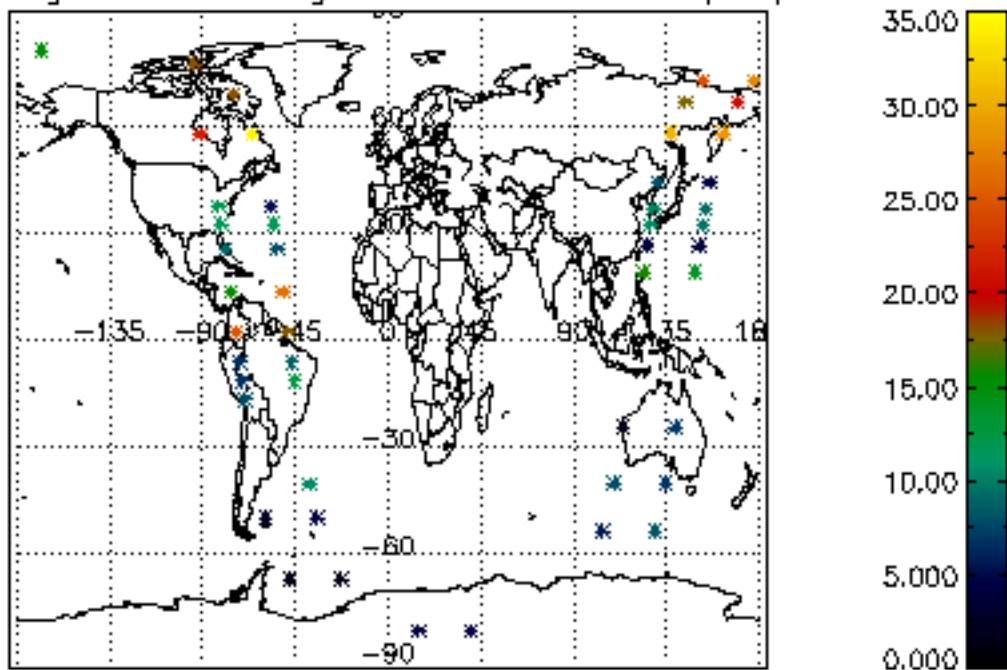
Percentage of cosmic ray hits per profile



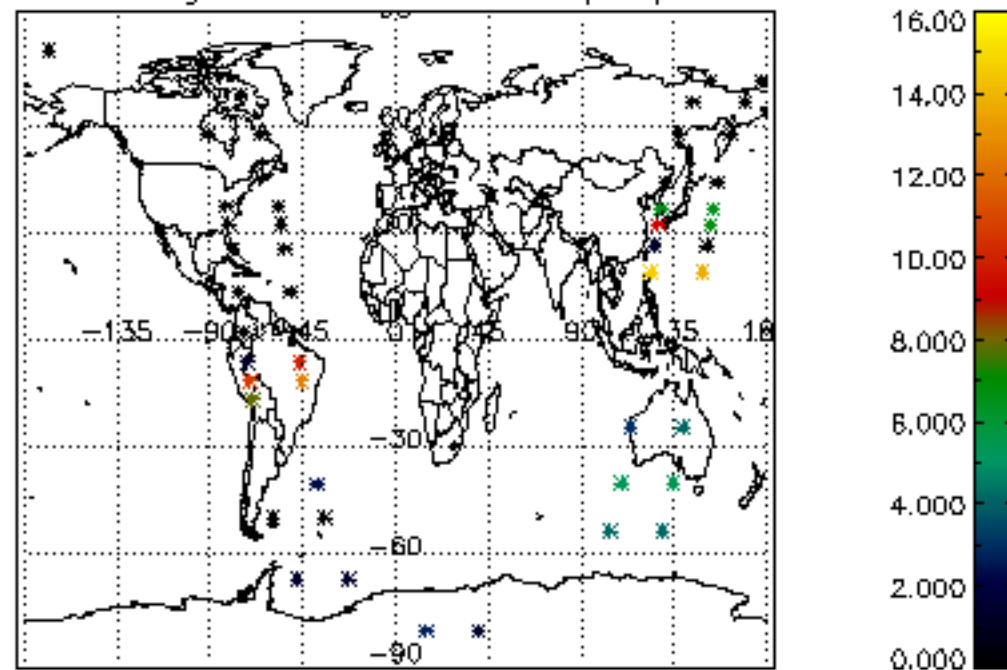
Percentage of datation errors per profile



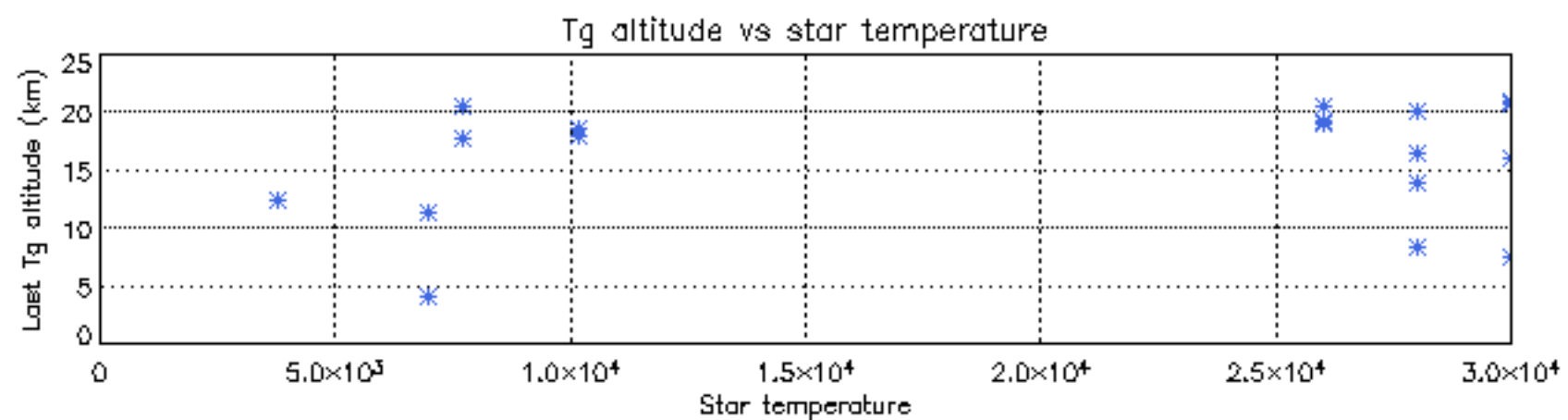
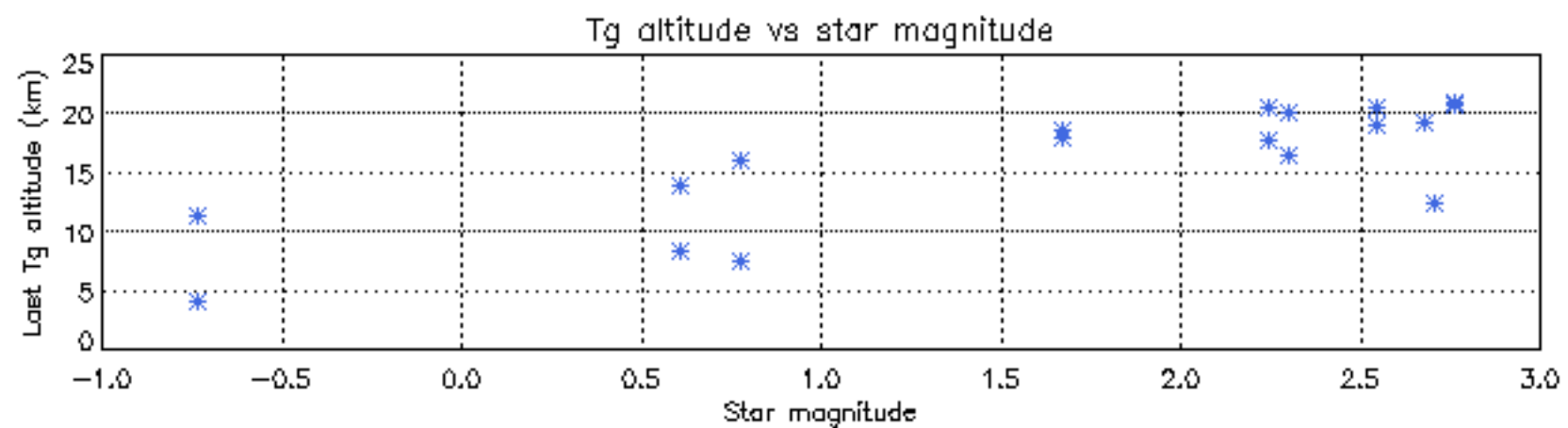
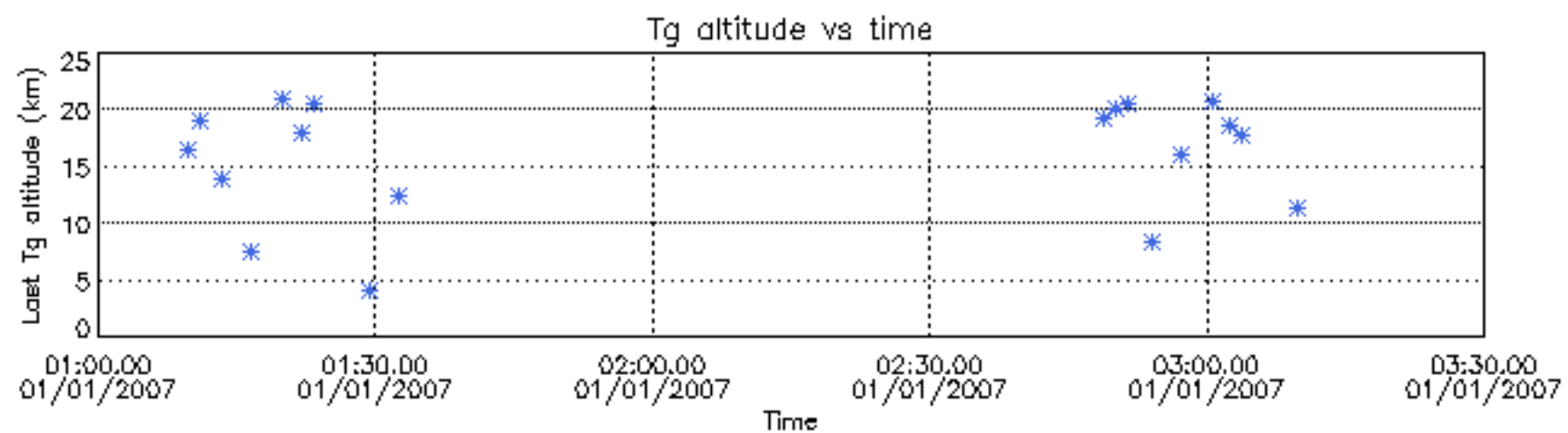
Percentage of star falling outside central band per profile



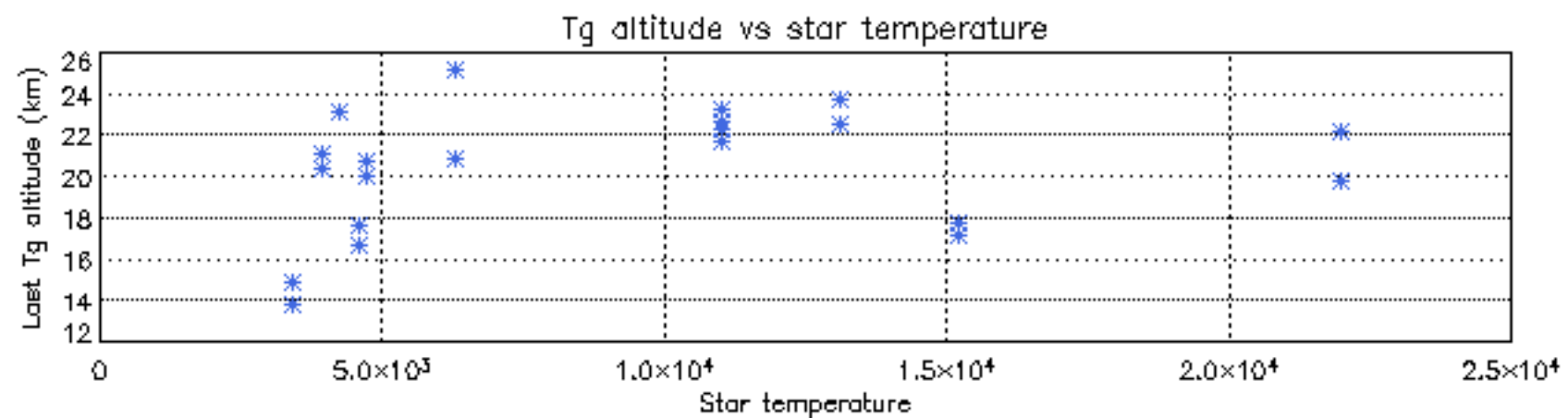
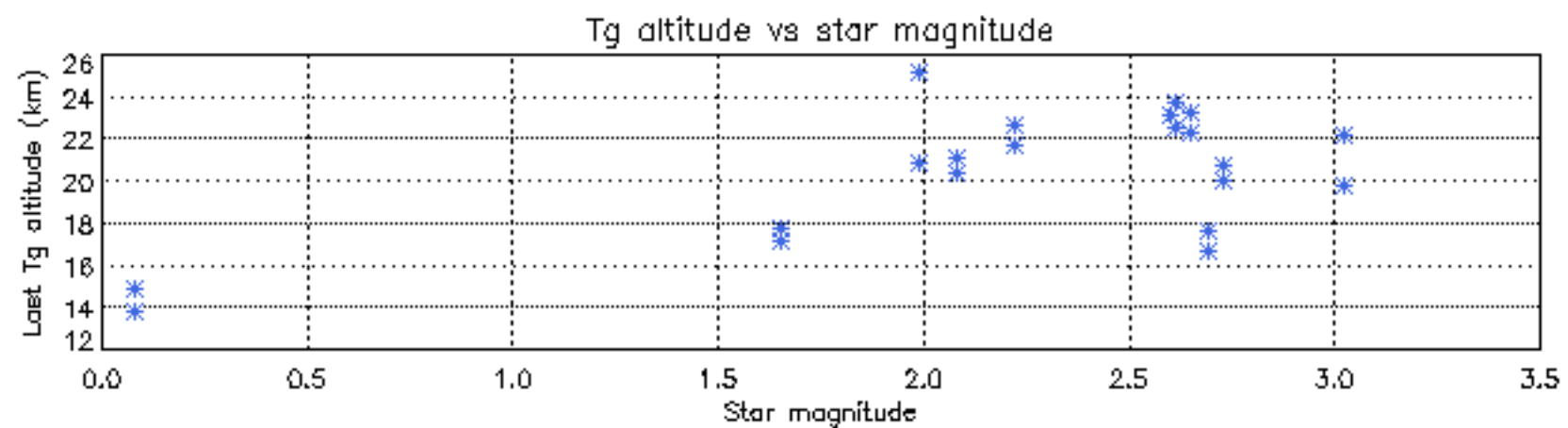
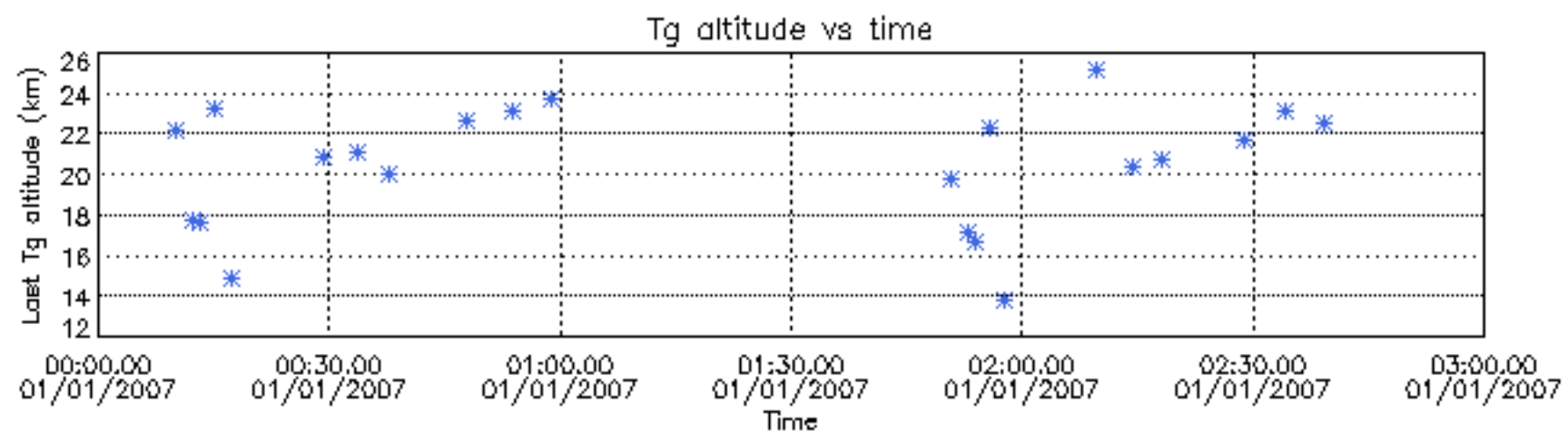
Percentage of saturation errors per profile

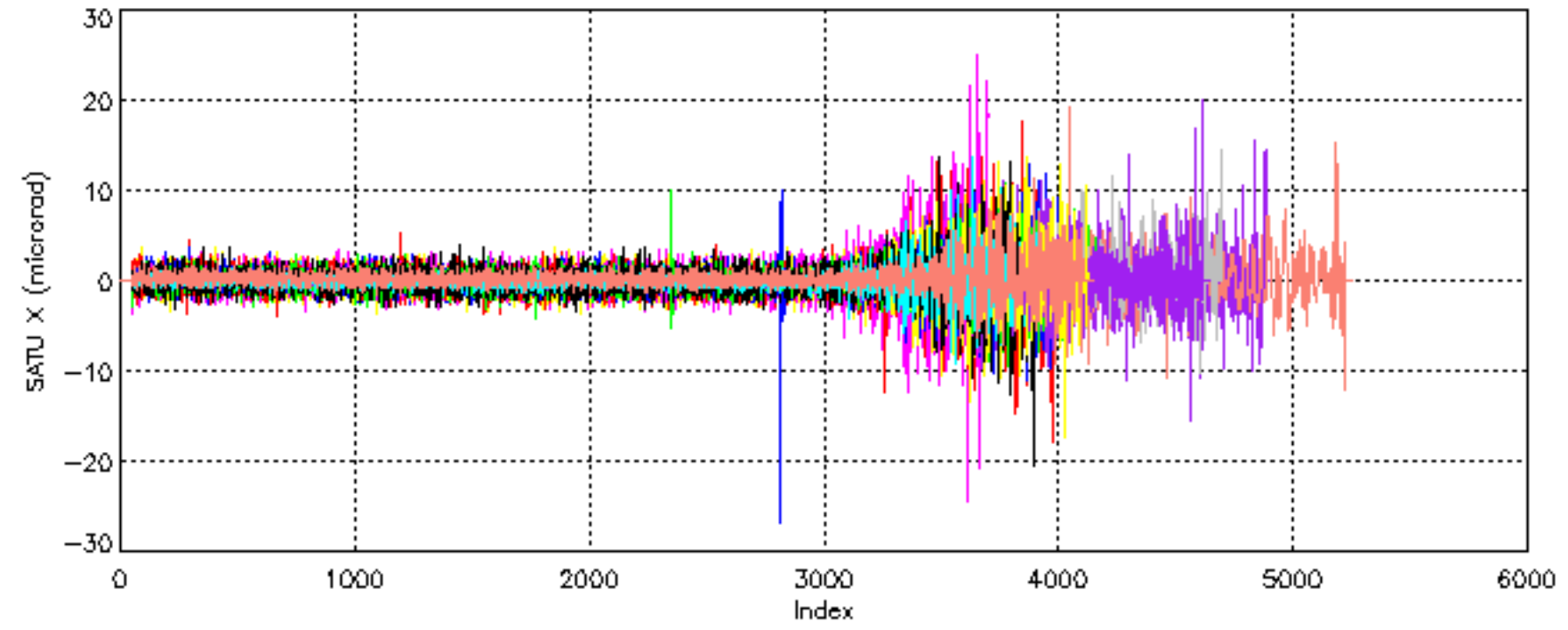


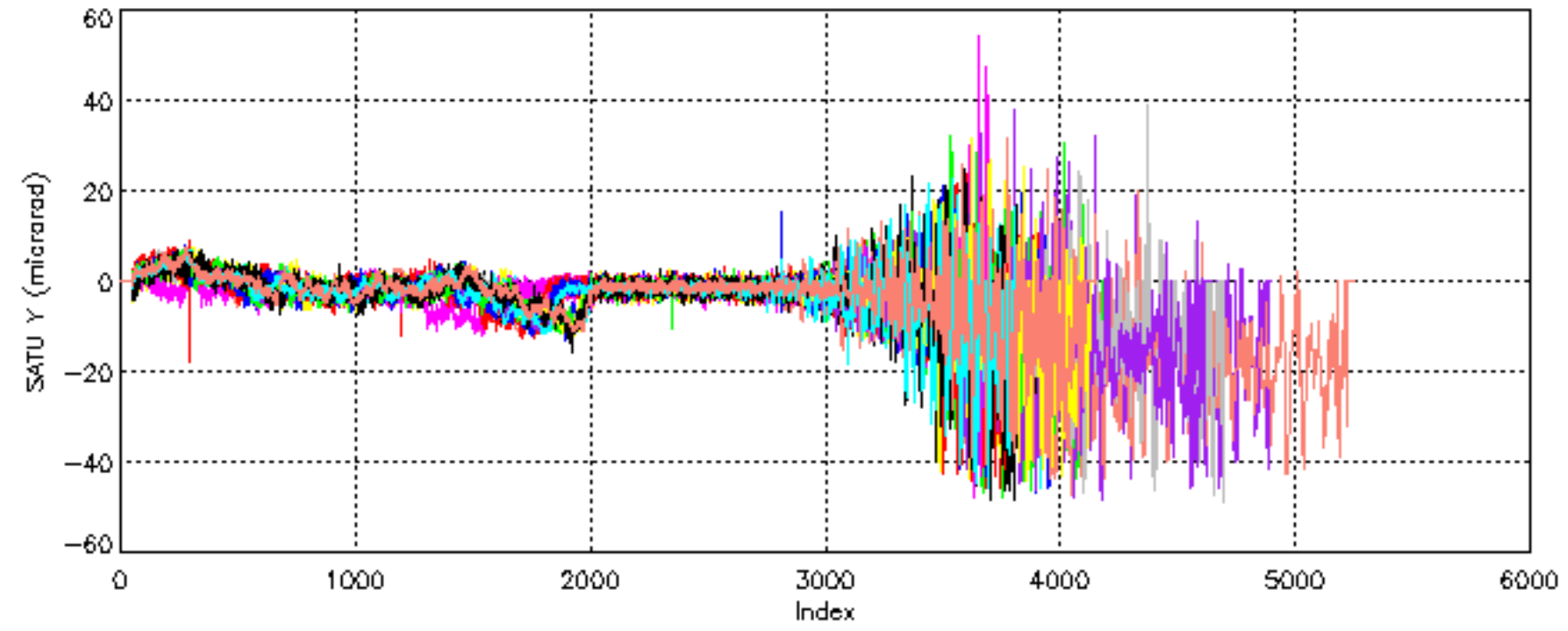
Tangent altitude at which the star is lost

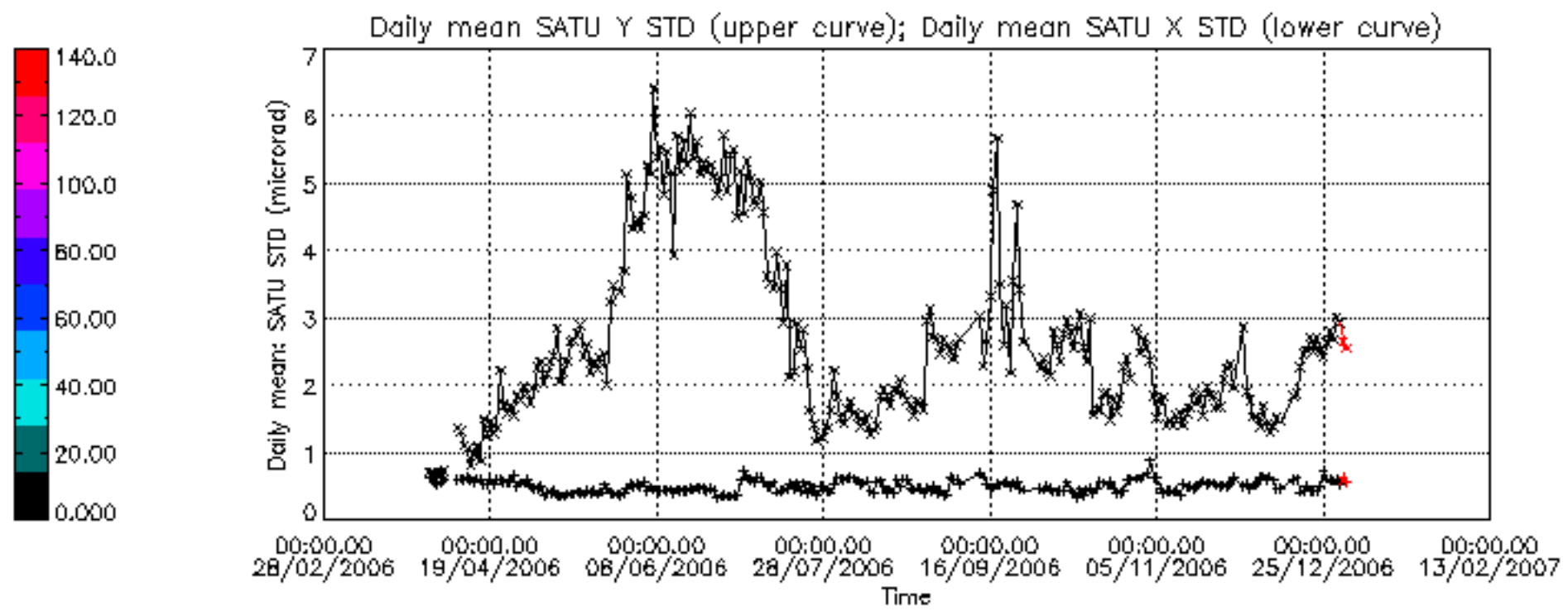


Tangent altitude at which the star is lost









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

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16; 732.5; 01-JAN-2007 04:45:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25295
17; 978.8; 01-JAN-2007 04:49:41; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;25295
18; 1172.4; 01-JAN-2007 04:52:55; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;25295
19; 1340.8; 01-JAN-2007 04:55:43; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;25295
20; 1569.4; 01-JAN-2007 04:59:32; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;25295
21; 1769.7; 01-JAN-2007 05:02:52; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;25295
22; 1881.5; 01-JAN-2007 05:04:44; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;25295
23; 2033.2; 01-JAN-2007 05:07:15; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25295
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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
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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
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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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24; 2271.2; 01-JAN-2007 06:51:49; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25296
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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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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; 2032.5; 01-JAN-2007 20:12:38; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;25304
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12; 2692.1; 01-JAN-2007 20:23:38; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;25304
13; 3423.3; 01-JAN-2007 20:35:49; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;25304
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16; 4423.4; 01-JAN-2007 20:52:29; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;25304
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3; -837.7; 01-JAN-2007 21:05:24; Bright; 45.5; 104; 27Bet Lib ; 2.61; 13100;occ; 91; 0;25304
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15; 1224.0; 12-JAN-2007 09:09:32; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;25455
16; 1380.0; 12-JAN-2007 09:12:08; Dark ; 39.5; 23; 21Eps CMA ; 1.50; 26000;occ; 79; 0;25455
17; 1466.6; 12-JAN-2007 09:13:35; Dark ; 40.5; 179; 240mi2CMA ; 3.03; 24000;occ; 81; 0;25455
18; 1602.4; 12-JAN-2007 09:15:51; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;25455
19; 1750.7; 12-JAN-2007 09:18:19; Dark ; 41.0; 56; 53Kap Ori ; 2.07; 30000;occ; 82; 0;25455

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2; 1820.3; 12-JAN-2007 09:19:29; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25455
3; 1898.1; 12-JAN-2007 09:20:47; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;25455
4; 2034.6; 12-JAN-2007 09:23:03; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;25455
5; 2271.0; 12-JAN-2007 09:26:59; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25455
6; 2399.4; 12-JAN-2007 09:29:08; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25455
7; 2490.0; 12-JAN-2007 09:30:38; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25455
8; 2674.8; 12-JAN-2007 09:33:43; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;25455
9; 3424.7; 12-JAN-2007 09:46:13; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;25455
10; 3671.1; 12-JAN-2007 09:50:19; Bright; 50.5; 60; 7Bet UMi ; 2.08; 3950;occ; 101; 0;25455
11; 3924.0; 12-JAN-2007 09:54:32; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;25455
12; 4072.0; 12-JAN-2007 09:57:00; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;25455
13; 4446.7; 12-JAN-2007 10:03:15; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;25455
14; 4629.7; 12-JAN-2007 10:06:18; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;25455
15; 5079.0; 12-JAN-2007 10:13:47; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;25455
16; 5164.2; 12-JAN-2007 10:15:13; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;25455
17; 5431.0; 12-JAN-2007 10:19:39; Dark ; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;25455
18; 5739.0; 12-JAN-2007 10:24:47; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;25455
19; 5838.1; 12-JAN-2007 10:26:27; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;25455
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21; 6043.3; 12-JAN-2007 10:29:52; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;25455
22; 6147.2; 12-JAN-2007 10:31:36; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;25455
23; 6302.5; 12-JAN-2007 10:34:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25455
24; 6548.4; 12-JAN-2007 10:38:17; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25455
25; 6638.6; 12-JAN-2007 10:39:47; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25455
26; 6747.4; 12-JAN-2007 10:41:36; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;25455
27; 6826.9; 12-JAN-2007 10:42:55; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;25455
28; 7025.6; 12-JAN-2007 10:46:14; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;25455
29; 7155.1; 12-JAN-2007 10:48:24; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;25455
30; 7260.2; 12-JAN-2007 10:50:09; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;25455
31; 7416.1; 12-JAN-2007 10:52:45; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;25455
32; 7502.5; 12-JAN-2007 10:54:11; Dark ; 41.5; 179; 240mi2CMA ; 3.03; 24000;occ; 83; 0;25455
33; 7638.4; 12-JAN-2007 10:56:27; Dark ; 46.0; 1; 9Alp CMA ; -1.44; 11000;occ; 92; 0;25455

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3; 1898.2; 12-JAN-2007 11:01:22; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;25456
4; 2034.7; 12-JAN-2007 11:03:39; Dark ; 43.0; 14; 58Alp Ori ; 0.87; 3000;occ; 86; 0;25456
5; 2193.6; 12-JAN-2007 11:06:18; Dark ; 25.0; 44; 24Gam Gem ; 1.93; 11000;occ; 50; 0;25456
6; 2271.0; 12-JAN-2007 11:07:35; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;25456
7; 2399.4; 12-JAN-2007 11:09:44; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;25456
8; 2490.2; 12-JAN-2007 11:11:14; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;25456
9; 2674.6; 12-JAN-2007 11:14:19; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25456
10; 3424.6; 12-JAN-2007 11:26:49; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25456
11; 3670.9; 12-JAN-2007 11:30:55; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25456
12; 3924.0; 12-JAN-2007 11:35:08; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;25456
13; 4071.9; 12-JAN-2007 11:37:36; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;25456
14; 4446.8; 12-JAN-2007 11:43:51; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;25456
15; 4629.9; 12-JAN-2007 11:46:54; Bright; 3.5; 127; 27Bet Her ; 2.78; 4700;occ; 7; 0;25456

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 3; -871.4; 12-JAN-2007 11:55:49; Bright; 34.5; 98; 13Zet Oph ; 2.57; 30000;occ; 69; 0;25456
 4; -604.6; 12-JAN-2007 12:00:16; Dark ; 44.5; 16; 21Alp Sco ; 1.02; 3000;occ; 89; 0;25456
 5; -296.4; 12-JAN-2007 12:05:24; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;25456
 6; -197.2; 12-JAN-2007 12:07:03; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;25456
 7; -106.5; 12-JAN-2007 12:08:34; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;25456
 8; 8.2; 12-JAN-2007 12:10:28; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;25457
 9; 111.8; 12-JAN-2007 12:12:12; Dark ; 47.5; 10; Bet Cen ; 0.61; 28000;occ; 95; 0;25457
 10; 266.9; 12-JAN-2007 12:14:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25457
 11; 513.1; 12-JAN-2007 12:18:53; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25457
 12; 603.0; 12-JAN-2007 12:20:23; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;25457
 13; 712.0; 12-JAN-2007 12:22:12; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;25457
 14; 791.4; 12-JAN-2007 12:23:32; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;25457
 15; 990.2; 12-JAN-2007 12:26:50; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;25457
 16; 1119.6; 12-JAN-2007 12:29:00; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;25457
 17; 1224.6; 12-JAN-2007 12:30:45; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;25457
 18; 1380.5; 12-JAN-2007 12:33:21; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;25457
 19; 1466.8; 12-JAN-2007 12:34:47; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;25457
 20; 1602.7; 12-JAN-2007 12:37:03; Dark ; 3.5; 1; 9Alp CMA ; -1.44; 11000;occ; 7; 0;25457

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 2; 1751.0; 12-JAN-2007 12:39:31; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;25457
 3; 1820.7; 12-JAN-2007 12:40:41; Dark ; 38.5; 125; 44Iot Ori ; 2.77; 30000;occ; 77; 0;25457
 4; 1898.4; 12-JAN-2007 12:41:59; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;25457
 5; 2034.8; 12-JAN-2007 12:44:15; Dark ; 45.0; 14; 58Alp Ori ; 0.87; 3000;occ; 90; 0;25457
 6; 2193.5; 12-JAN-2007 12:46:54; Dark ; 25.0; 44; 24Gam Gem ; 1.93; 11000;occ; 50; 0;25457
 7; 2271.0; 12-JAN-2007 12:48:11; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25457
 8; 2399.5; 12-JAN-2007 12:50:20; Bright; 36.0; 28; 12Bet Tau ; 1.65; 15200;occ; 72; 0;25457
 9; 2490.5; 12-JAN-2007 12:51:51; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;25457
 10; 2674.6; 12-JAN-2007 12:54:55; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25457
 11; 3424.7; 12-JAN-2007 13:07:25; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;25457
 12; 3670.7; 12-JAN-2007 13:11:31; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25457
 13; 3923.9; 12-JAN-2007 13:15:44; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;25457
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 15; 4447.1; 12-JAN-2007 13:24:27; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;25457
 16; 4630.2; 12-JAN-2007 13:27:30; Bright; 54.0; 127; 27Bet Her ; 2.78; 4700;occ; 108; 0;25457
 17; 5079.8; 12-JAN-2007 13:35:00; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;25457
 18; 5165.0; 12-JAN-2007 13:36:25; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;25457
 19; 5431.7; 12-JAN-2007 13:40:52; Dark ; 45.0; 16; 21Alp Sco ; 1.02; 3000;occ; 90; 0;25457
 20; 5740.0; 12-JAN-2007 13:46:00; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;25457
 21; 5839.3; 12-JAN-2007 13:47:39; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;25457
 22; 5930.0; 12-JAN-2007 13:49:10; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25457
 23; 6044.9; 12-JAN-2007 13:51:05; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;25457
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 25; 6303.1; 12-JAN-2007 13:55:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25457
 26; 6549.5; 12-JAN-2007 13:59:30; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25457
 27; 6639.2; 12-JAN-2007 14:00:59; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25457
 28; 6748.3; 12-JAN-2007 14:02:48; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;25457
 29; 6827.7; 12-JAN-2007 14:04:08; Dark ; 38.5; 41; Eps Car ; 1.86; 4100;occ; 77; 0;25457
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 32; 7260.7; 12-JAN-2007 14:11:21; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;25457
 33; 7416.5; 12-JAN-2007 14:13:57; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;25457
 34; 7502.8; 12-JAN-2007 14:15:23; Dark ; 4.5; 179; 240mi2CMA ; 3.03; 24000;occ; 9; 0;25457

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 5; 1820.8; 12-JAN-2007 14:21:17; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25458
 6; 1898.6; 12-JAN-2007 14:22:35; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;25458
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5; 2490.6; 12-JAN-2007 14:32:27; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;25458
6; 2674.6; 12-JAN-2007 14:35:31; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;25458
7; 3424.7; 12-JAN-2007 14:48:01; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;25458
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13; 5080.2; 12-JAN-2007 15:15:36; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;25458
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19; 6045.7; 12-JAN-2007 15:31:42; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;25458
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23; 6639.7; 12-JAN-2007 15:41:36; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25458
24; 6748.9; 12-JAN-2007 15:43:25; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;25458
25; 6828.1; 12-JAN-2007 15:44:44; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;25458
26; 7026.8; 12-JAN-2007 15:48:03; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25458
27; 7156.3; 12-JAN-2007 15:50:12; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;25458
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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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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
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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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20;	1757.3;	15-JAN-2007 06:02:58;	Dark ;	41.0;	56;	53Kap Ori ;	2.07;	30000;occ;	82;	0;25496
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22;	1904.9;	15-JAN-2007 06:05:26;	Dark ;	42.0;	30;	46Eps Ori ;	1.69;	30000;occ;	84;	0;25496
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26;	2498.8;	15-JAN-2007 06:15:20;	Bright;	36.5;	114;	3Iot Aur ;	2.69;	4600;occ;	73;	0;25496
27;	2672.4;	15-JAN-2007 06:18:13;	Bright;	36.5;	42;	34Bet Aur ;	1.90;	10200;occ;	73;	0;25496
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8;	1828.9;	15-JAN-2007 21:09:33;	Dark ;	38.0;	125;	44Iot Ori ;	2.77;	30000;occ;	76;	0;25505
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15;	1758.8;	15-JAN-2007 22:48:59;	Dark ;	39.0;	56;	53Kap Ori ;	2.07;	30000;occ;	78;	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
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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24;	4077.2;	15-JAN-2007 23:27:37;	Bright;	34.5;	130;	23Bet Dra ;	2.80;	5800;occ;	69;	0;25506
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 21; 6943.5; 27-JAN-2007 11:13:34; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;25670
 22; 7098.4; 27-JAN-2007 11:16:09; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;25670
 23; 7224.1; 27-JAN-2007 11:18:15; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;25670
 24; 7311.1; 27-JAN-2007 11:19:42; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;25670
 25; 7458.3; 27-JAN-2007 11:22:09; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;25670
 26; 7541.1; 27-JAN-2007 11:23:32; Dark ; 36.0; 179; 240mi2CMA ; 3.03; 24000;occ; 72; 0;25670
 27; 7670.3; 27-JAN-2007 11:25:41; Dark ; 5.5; 1; 9Alp CMA ; -1.44; 11000;occ; 11; 0;25670

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13; 5529.4; 27-JAN-2007 14:11:12; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;25672
14; 5610.1; 27-JAN-2007 14:12:32; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;25672
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16; 6103.8; 27-JAN-2007 14:20:46; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;25672
17; 6195.5; 27-JAN-2007 14:22:18; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;25672
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21; 6837.1; 27-JAN-2007 14:32:59; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;25672
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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8; 2681.7; 27-JAN-2007 15:04:20; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;25673
9; 3427.2; 27-JAN-2007 15:16:45; Bright; 52.0; 49; 1Alp UMi ; 1.99; 6300;occ; 104; 0;25673
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15; 5530.1; 27-JAN-2007 15:51:48; Dark ; 47.0; 16; 21Alp Sco ; 1.02; 3000;occ; 94; 0;25673
16; 5610.7; 27-JAN-2007 15:53:09; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;25673
17; 5869.7; 27-JAN-2007 15:57:28; Dark ; 41.0; 131; Gam Lup ; 2.80; 26000;occ; 82; 0;25673
18; 6104.4; 27-JAN-2007 16:01:23; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;25673
19; 6196.1; 27-JAN-2007 16:02:54; Dark ; 54.5; 4; Alp1Cen ;-0.01; 5800;occ; 109; 0;25673
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23; 6837.5; 27-JAN-2007 16:13:36; Dark ; 37.0; 71; Iot Car ; 2.25; 7700;occ; 74; 0;25673
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22; 6197.0; 27-JAN-2007 19:24:07; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;25675
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