

GOMOS Daily Report 03-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	11JAN2007 12:36:06
Data source version	GOMOS/5.00
Start time of products	03-01-2007 (03JAN2007 00:00:00)
Stop time of products	04-01-2007 (04JAN2007 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)

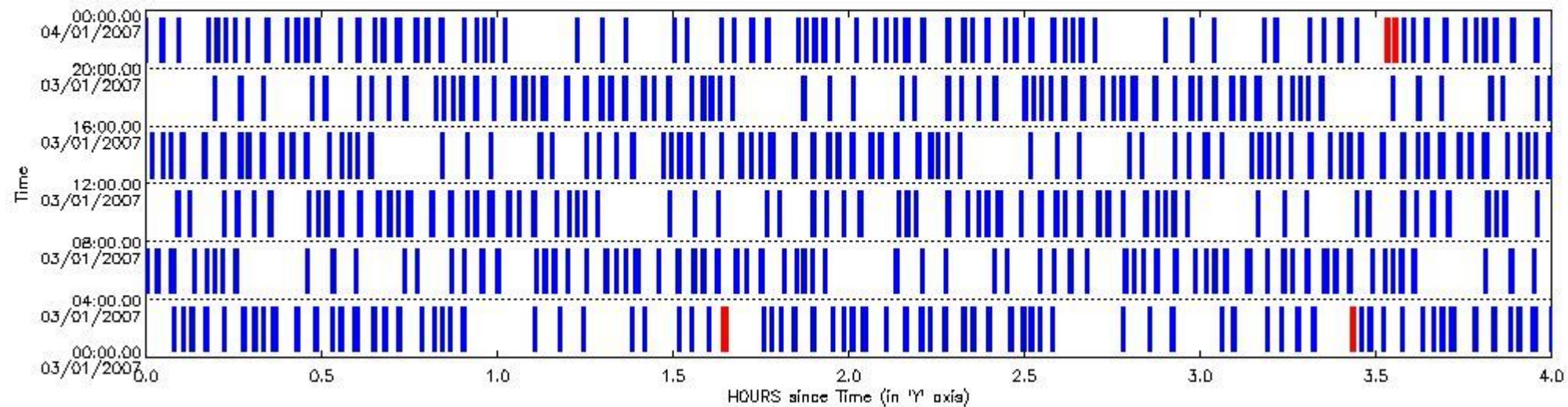
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

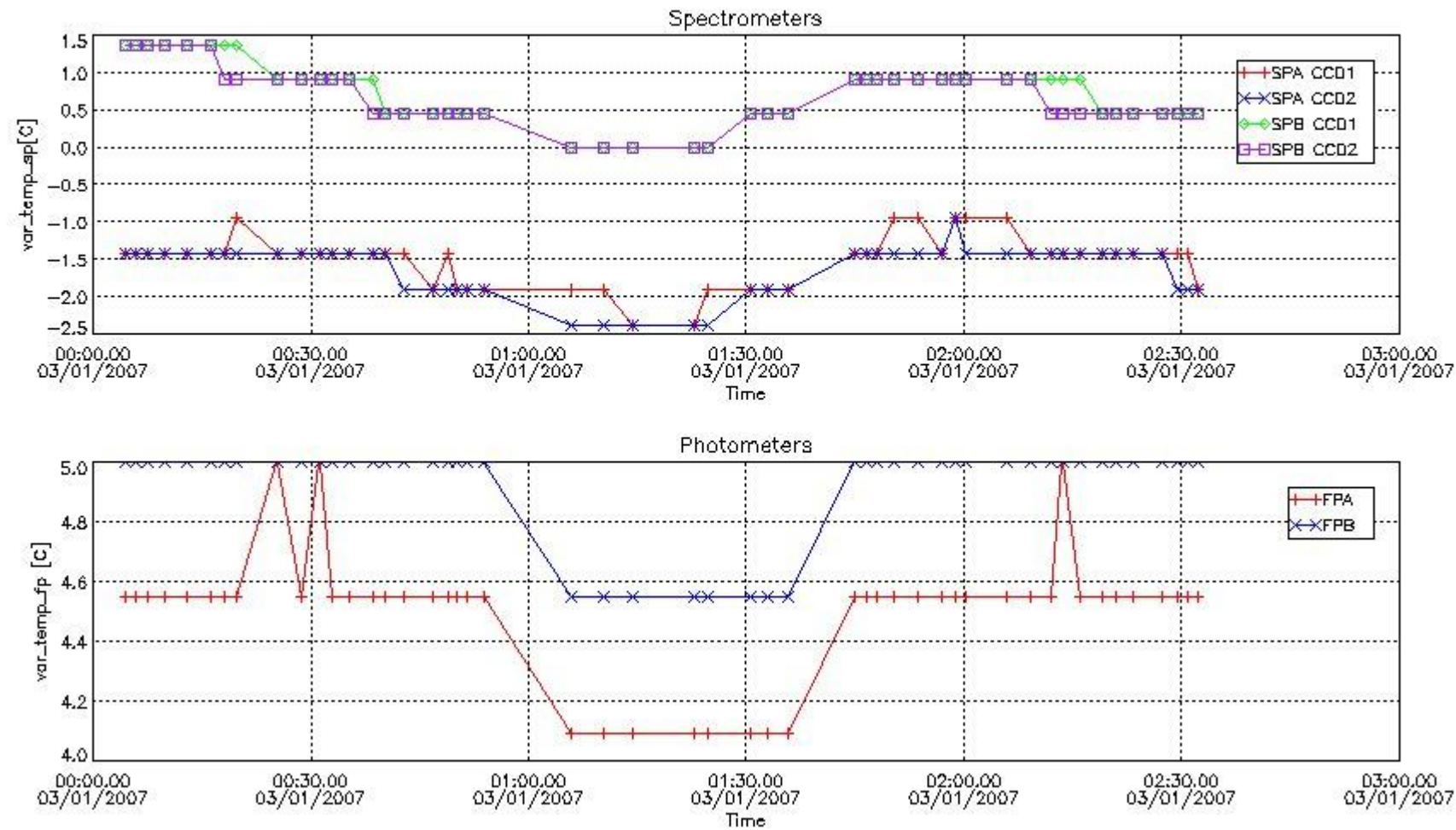
UTC start time	Star name	Star ID	Orbit
03-JAN-2007 01:38:19	9Alp2Lib	122	25321
03-JAN-2007 03:25:33	BetLup	109	25322
03-JAN-2007 23:31:26	GamLup	131	25334
03-JAN-2007 23:32:50	BetLup	109	25334

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_1PNPDE20070103_000427_000000392054_00216_25320_8890.N1	03-JAN-2007 00:04:27	Dark	39.000	109	Bet Lup	2.6770	26000.	78	25320	No
2	GOM_TRA_1PNPDE20070103_000555_000000402054_00216_25320_8891.N1	03-JAN-2007 00:05:55	Dark	40.000	78	Alp Lup	2.3040	28000.	80	25320	No
3	GOM_TRA_1PNPDE20070103_000728_000000412054_00216_25320_8892.N1	03-JAN-2007 00:07:28	Dark	41.000	95	Zet Cen	2.5450	26000.	82	25320	No
4	GOM_TRA_1PNPDE20070103_000946_000000502054_00217_25321_8893.N1	03-JAN-2007 00:09:46	Dark	49.500	10	Bet Cen	0.61000	28000.	99	25321	No
5	GOM_TRA_1PNPDE20070103_001259_000000412054_00217_25321_8894.N1	03-JAN-2007 00:12:59	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	25321	No
6	GOM_TRA_1PNPDE20070103_001620_000000392054_00217_25321_8895.N1	03-JAN-2007 00:16:20	Dark	39.000	124	The Car	2.7640	30000.	78	25321	No
7	GOM_TRA_1PNPDE20070103_001812_000000392054_00217_25321_8896.N1	03-JAN-2007 00:18:12	Dark	38.500	29	Bet Car	1.6720	10200.	77	25321	No

8	GOM_TRA_1PNPDE20070103_001940_000000392054_00217_25321_8897.N1	03-JAN-2007 00:19:40	Dark	39.000	71	lot Car	2.2460	7700.0	78	25321	No
9	GOM_TRA_1PNPDE20070103_002521_000000452054_00217_25321_8898.N1	03-JAN-2007 00:25:21	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	25321	No
10	GOM_TRA_1PNPDE20070103_002838_000000442054_00217_25321_8899.N1	03-JAN-2007 00:28:38	Dark	43.500	117	Pi Pup	2.7060	3800.0	87	25321	No
11	GOM_TRA_1PNPDE20070103_003124_000000442054_00217_25321_8900.N1	03-JAN-2007 00:31:24	Straylight	44.000	23	21Eps CMa	1.5020	26000.	88	25321	No
12	GOM_TRA_1PNPDE20070103_003255_000000402054_00217_25321_8901.N1	03-JAN-2007 00:32:55	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	25321	No
13	GOM_TRA_1PNPDE20070103_003521_000000532054_00217_25321_8902.N1	03-JAN-2007 00:35:21	Straylight	53.000	1	9Alp CMa	-1.4400	11000.	106	25321	No
14	GOM_TRA_1PNPDE20070103_003829_000000492054_00217_25321_8903.N1	03-JAN-2007 00:38:29	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	25321	No
15	GOM_TRA_1PNPDE20070103_004019_000000442054_00217_25321_8904.N1	03-JAN-2007 00:40:19	Straylight	44.000	30	46Eps Ori	1.6940	30000.	88	25321	No
16	GOM_TRA_1PNPDE20070103_004248_000000542054_00217_25321_8905.N1	03-JAN-2007 00:42:48	Twilight_stray	53.500	14	58Alp Ori	0.87000	3000.0	107	25321	No
17	GOM_TRA_1PNPDE20070103_004646_000000372054_00217_25321_8906.N1	03-JAN-2007 00:46:46	Bright	37.000	176	23Zet Tau	3.0200	22000.	74	25321	No
18	GOM_TRA_1PNPDE20070103_004852_000000372054_00217_25321_8907.N1	03-JAN-2007 00:48:52	Bright	36.500	28	12Bet Tau	1.6500	15200.	73	25321	No
19	GOM_TRA_1PNPDE20070103_005009_000000372054_00217_25321_8908.N1	03-JAN-2007 00:50:09	Bright	36.500	114	3lot Aur	2.6930	4600.0	73	25321	No
20	GOM_TRA_1PNPDE20070103_005137_000000382054_00217_25321_8909.N1	03-JAN-2007 00:51:37	Bright	38.000	107	37The Aur	2.6490	11000.	76	25321	No
21	GOM_TRA_1PNPDE20070103_005347_000000402054_00217_25321_8910.N1	03-JAN-2007 00:53:47	Bright	40.000	6	13Alp Aur	0.080000	3400.0	80	25321	No
22	GOM_TRA_1PNPDE20070103_010559_000000332054_00217_25321_8911.N1	03-JAN-2007 01:05:59	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	25321	No
23	GOM_TRA_1PNPDE20070103_011024_000000332054_00217_25321_8912.N1	03-JAN-2007 01:10:24	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	25321	No
24	GOM_TRA_1PNPDE20070103_011419_000000332054_00217_25321_8913.N1	03-JAN-2007 01:14:19	Bright	32.500	119	14Eta Dra	2.7270	4700.0	65	25321	No
25	GOM_TRA_1PNPDE20070103_012242_000000342054_00217_25321_8914.N1	03-JAN-2007 01:22:42	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	25321	No
26	GOM_TRA_1PNPDE20070103_012447_000000372054_00217_25321_8915.N1	03-JAN-2007 01:24:47	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	25321	No
27	GOM_TRA_1PNPDE20070103_013034_000000362054_00217_25321_8916.N1	03-JAN-2007 01:30:34	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	25321	No
28	GOM_TRA_1PNPDE20070103_013252_000000342054_00217_25321_8917.N1	03-JAN-2007 01:32:52	Bright	33.500	120	1Del Oph	2.7340	3200.0	67	25321	No
29	GOM_TRA_1PNPDE20070103_013542_000000392054_00217_25321_9180.N1	03-JAN-2007 01:35:42	Bright	38.500	104	27Bet Lib	2.6140	13100.	77	25321	No
30	GOM_TRA_1PNPDE20070103_014503_000000382054_00217_25321_9181.N1	03-JAN-2007 01:45:03	Dark	37.500	109	Bet Lup	2.6770	26000.	75	25321	No
31	GOM_TRA_1PNPDE20070103_014632_000000392054_00217_25321_9182.N1	03-JAN-2007 01:46:32	Dark	39.000	78	Alp Lup	2.3040	28000.	78	25321	No
32	GOM_TRA_1PNPDE20070103_014805_000000402054_00217_25321_9183.N1	03-JAN-2007 01:48:05	Dark	40.000	95	Zet Cen	2.5450	26000.	80	25321	No
33	GOM_TRA_1PNPDE20070103_015022_000000422054_00218_25322_9184.N1	03-JAN-2007 01:50:22	Dark	42.000	10	Bet Cen	0.61000	28000.	84	25322	No
34	GOM_TRA_1PNPDE20070103_015335_000000402054_00218_25322_9185.N1	03-JAN-2007 01:53:35	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	25322	No
35	GOM_TRA_1PNPDE20070103_015656_000000382054_00218_25322_9186.N1	03-JAN-2007 01:56:56	Dark	37.500	124	The Car	2.7640	30000.	75	25322	No
36	GOM_TRA_1PNPDE20070103_015849_000000382054_00218_25322_9187.N1	03-JAN-2007 01:58:49	Dark	37.500	29	Bet Car	1.6720	10200.	75	25322	No
37	GOM_TRA_1PNPDE20070103_020016_000000402054_00218_25322_9188.N1	03-JAN-2007 02:00:16	Dark	40.000	71	lot Car	2.2460	7700.0	80	25322	No
38	GOM_TRA_1PNPDE20070103_020557_000000452054_00218_25322_9189.N1	03-JAN-2007 02:05:57	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	25322	No
39	GOM_TRA_1PNPDE20070103_020914_000000512054_00218_25322_9190.N1	03-JAN-2007 02:09:14	Dark	51.000	117	Pi Pup	2.7060	3800.0	102	25322	No
40	GOM_TRA_1PNPDE20070103_021200_000000472054_00218_25322_9191.N1	03-JAN-2007 02:12:00	Straylight	47.000	23	21Eps CMa	1.5020	26000.	94	25322	No
41	GOM_TRA_1PNPDE20070103_021331_000000432054_00218_25322_9192.N1	03-JAN-2007 02:13:31	Straylight	42.500	179	24Omi2CMa	3.0320	24000.	85	25322	No
42	GOM_TRA_1PNPDE20070103_021557_000000512054_00218_25322_9193.N1	03-JAN-2007 02:15:57	Straylight	50.500	1	9Alp CMa	-1.4400	11000.	101	25322	No
43	GOM_TRA_1PNPDE20070103_021905_000000512054_00218_25322_9194.N1	03-JAN-2007 02:19:05	Straylight	50.500	7	19Bet Ori	0.10000	14000.	101	25322	No
44	GOM_TRA_1PNPDE20070103_022055_000000432054_00218_25322_9195.N1	03-JAN-2007 02:20:55	Straylight	42.500	30	46Eps Ori	1.6940	30000.	85	25322	No
45	GOM_TRA_1PNPDE20070103_022324_000000542054_00218_25322_9196.N1	03-JAN-2007 02:23:24	Twilight_stray	54.000	14	58Alp Ori	0.87000	3000.0	108	25322	No
46	GOM_TRA_1PNPDE20070103_022721_000000372054_00218_25322_9197.N1	03-JAN-2007 02:27:21	Bright	37.000	176	23Zet Tau	3.0200	22000.	74	25322	No
47	GOM_TRA_1PNPDE20070103_022928_000000362054_00218_25322_9198.N1	03-JAN-2007 02:29:28	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	25322	No
48	GOM_TRA_1PNPDE20070103_023045_000000392054_00218_25322_9199.N1	03-JAN-2007 02:30:45	Bright	38.500	114	3lot Aur	2.6930	4600.0	77	25322	No
49	GOM_TRA_1PNPDE20070103_023213_000000372054_00218_25322_9200.N1	03-JAN-2007 02:32:13	Bright	36.500	107	37The Aur	2.6490	11000.	73	25322	No

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



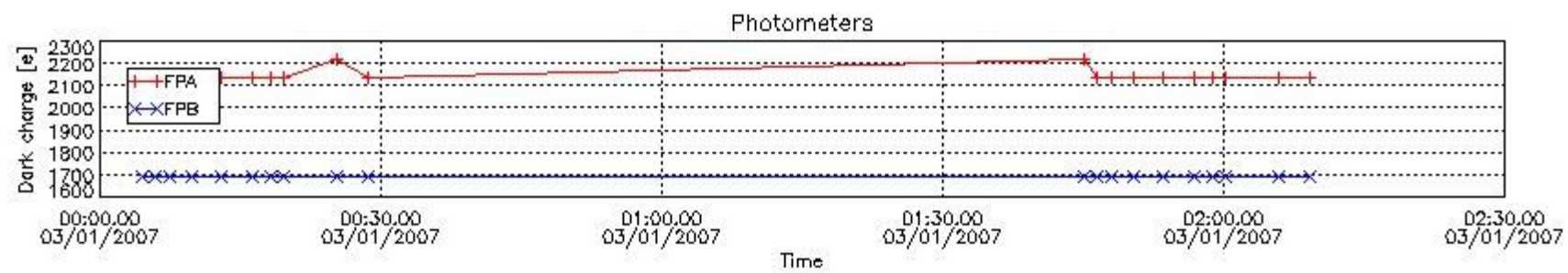
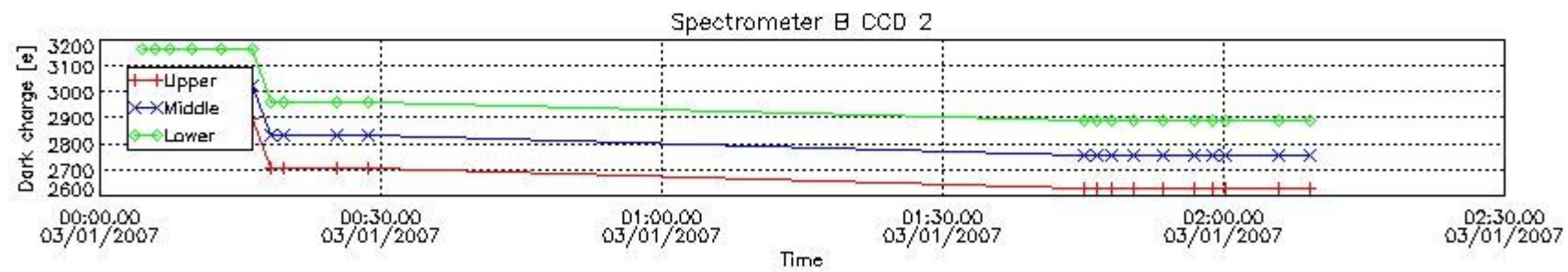
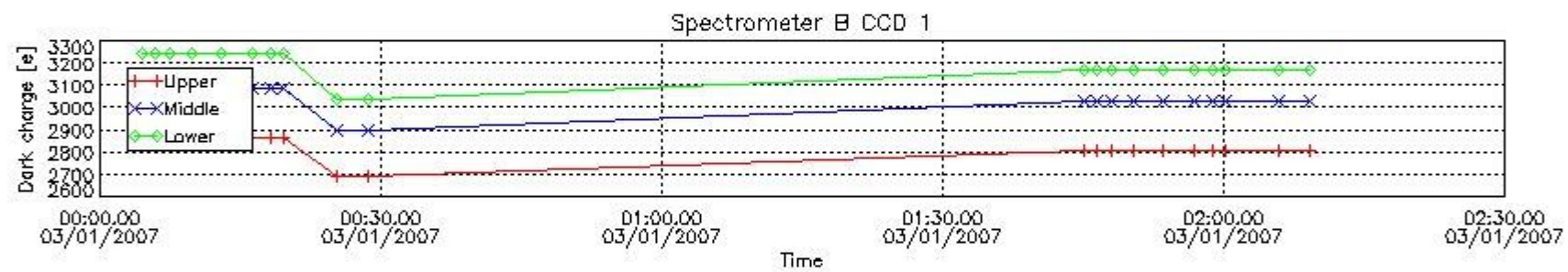
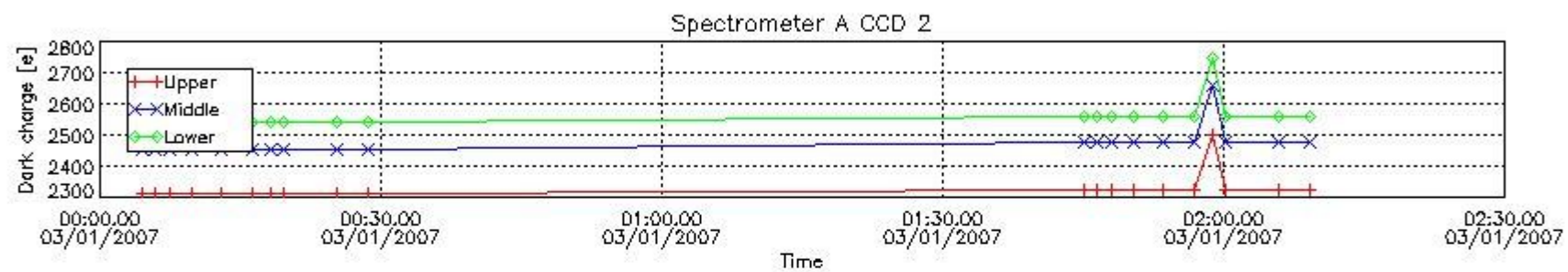
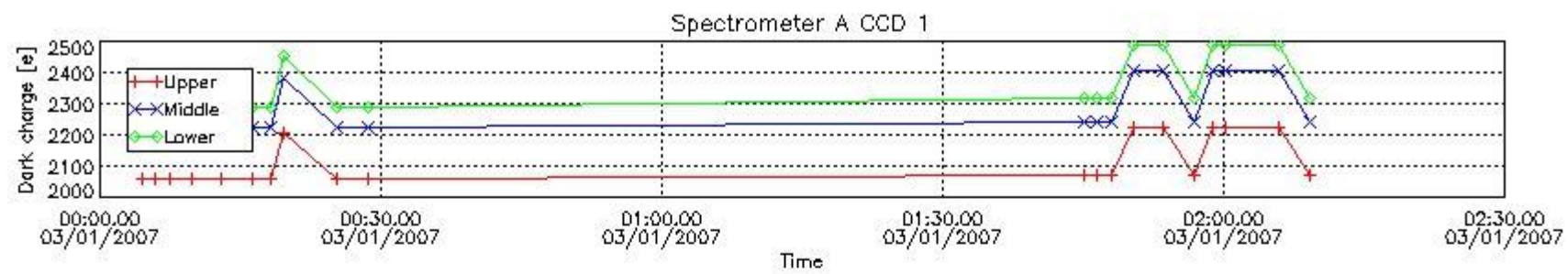
4. Overview of dark signal processing per product

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



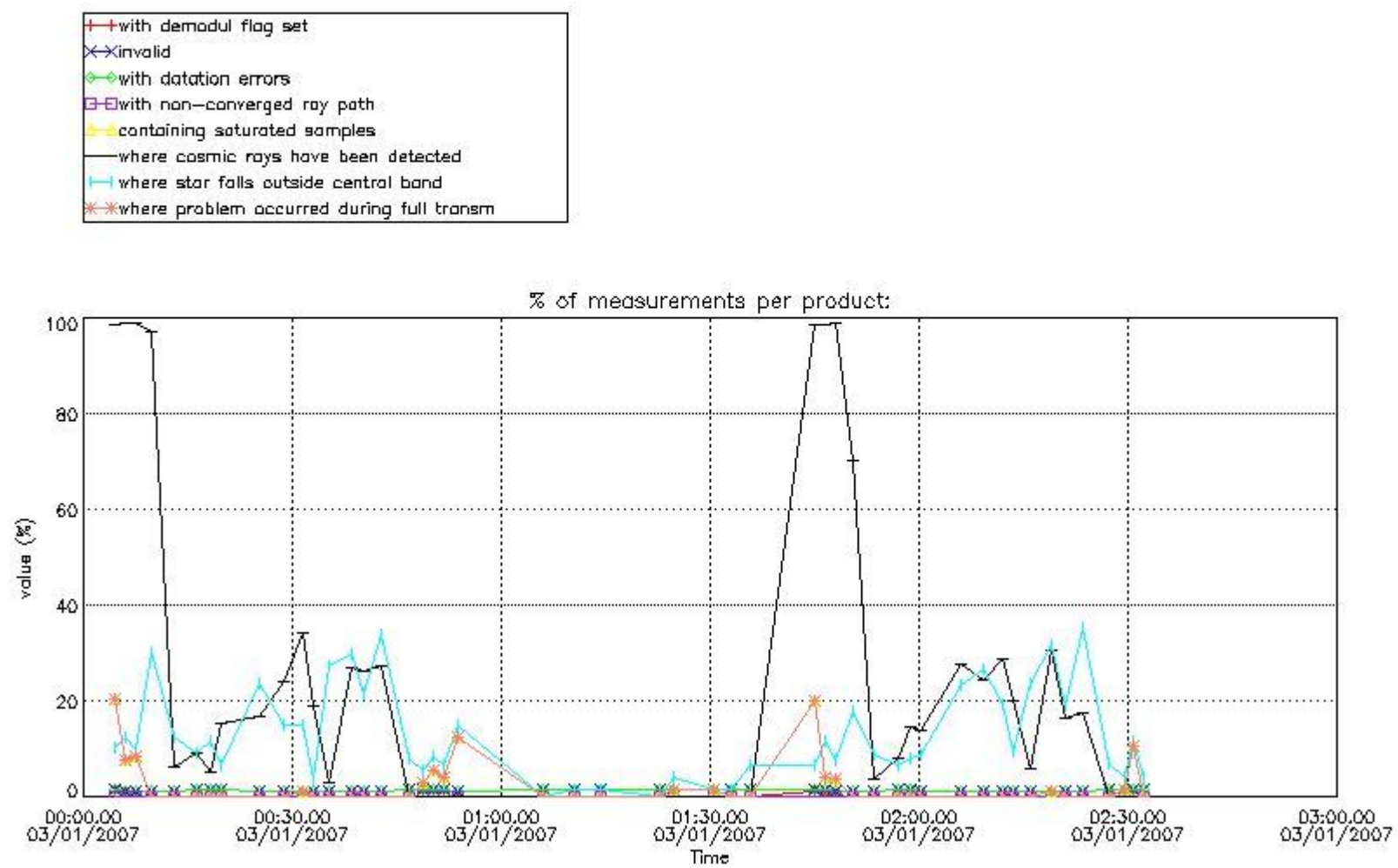
5. Demodulation flag and quality information monitoring

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.

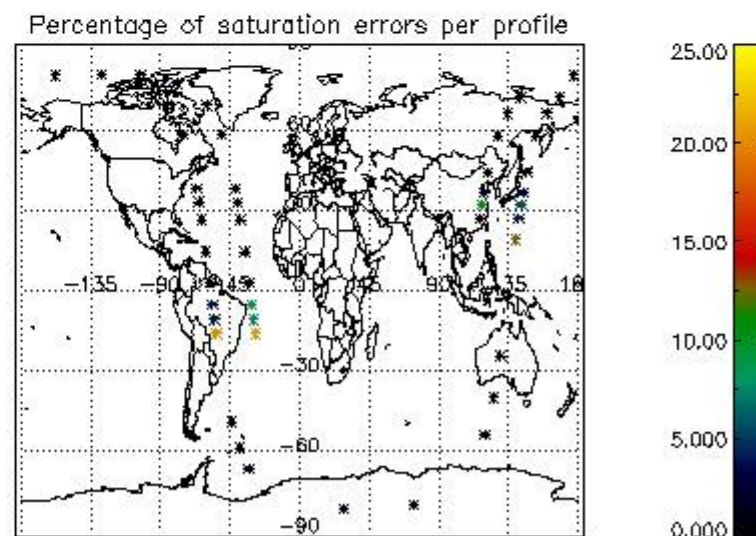
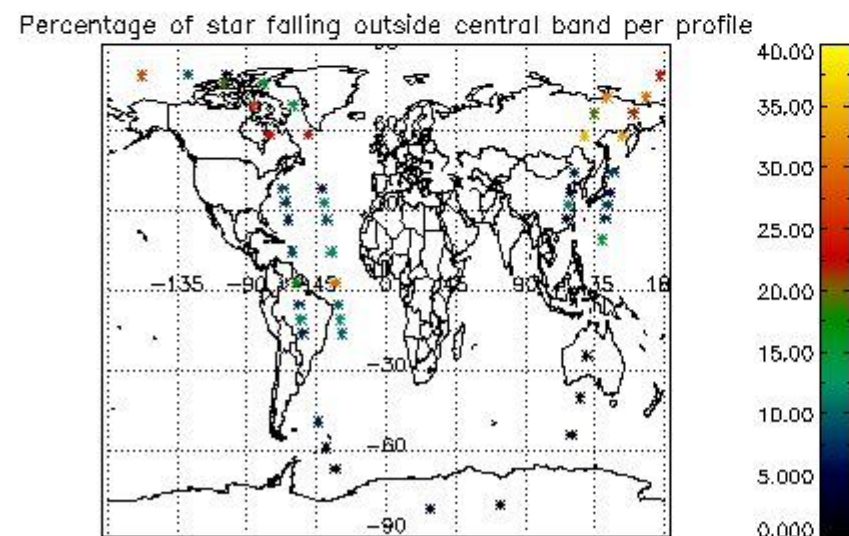
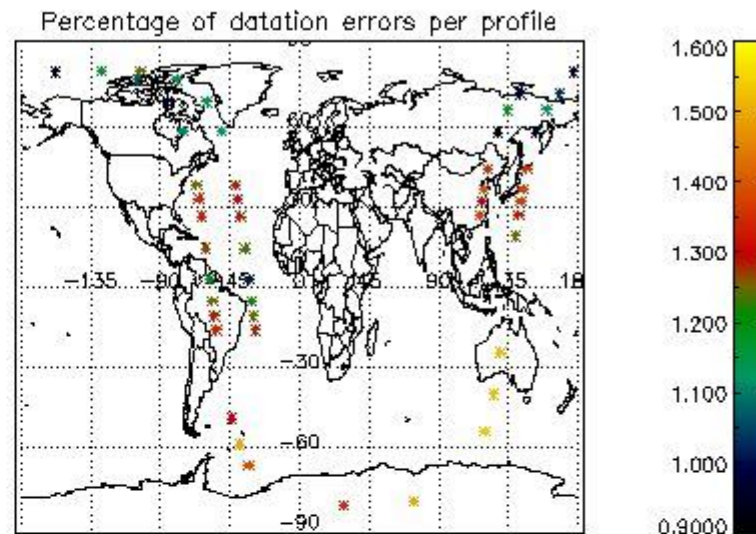
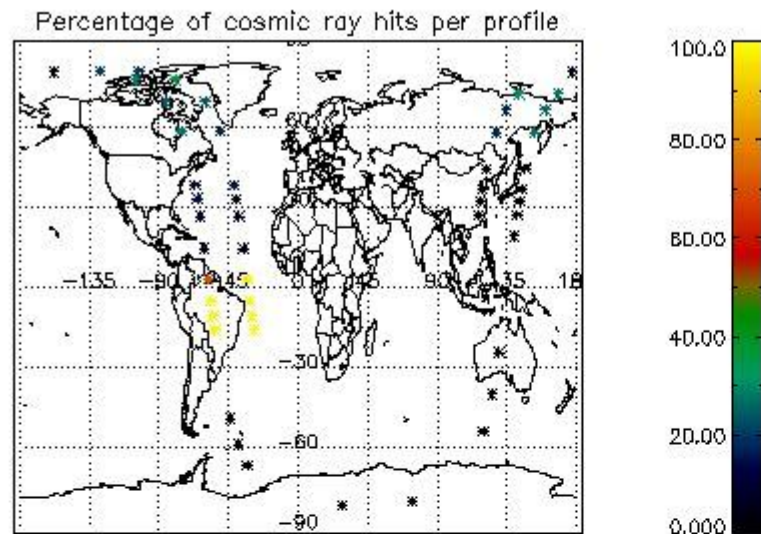
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.4082 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



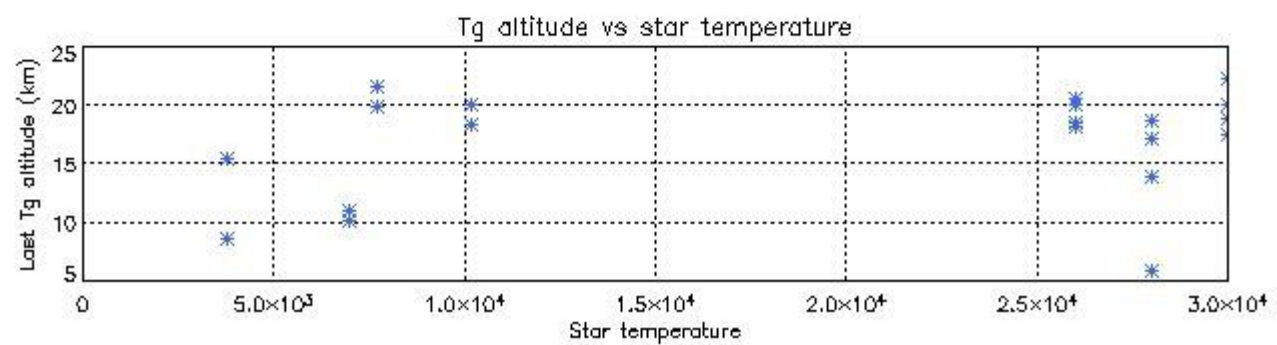
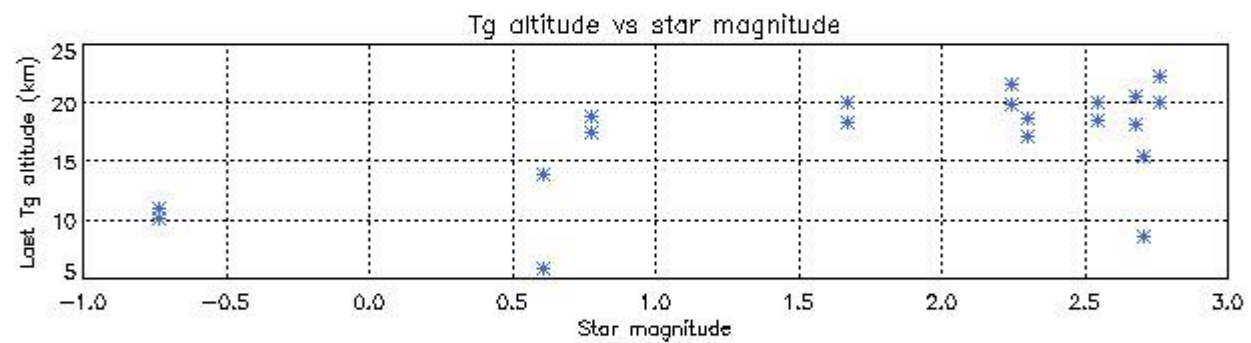
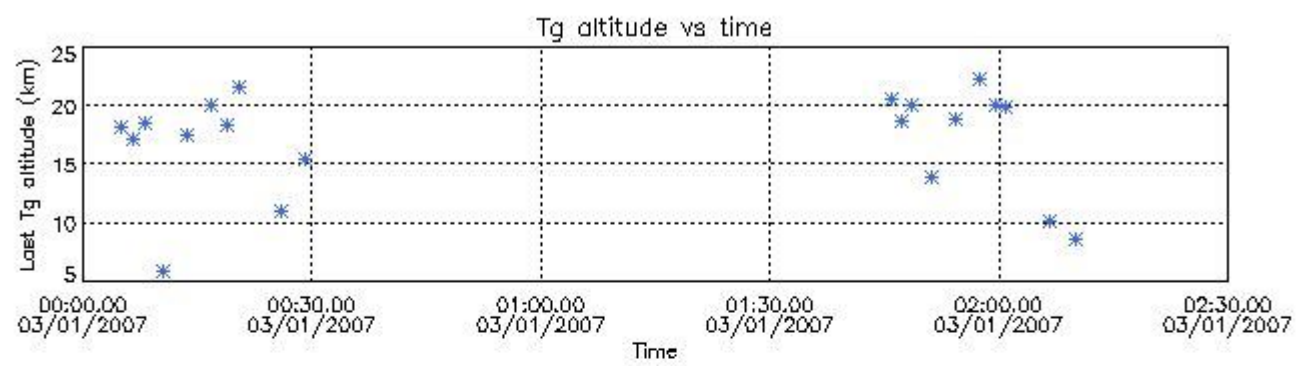
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.822	22.206	NaN
St. deviation:	4.5704	4.3027	NaN
Maximum:	22.210	30.251	NaN
Minimum:	5.7695	14.657	NaN
Number of data:	20.000	17.000	NaN

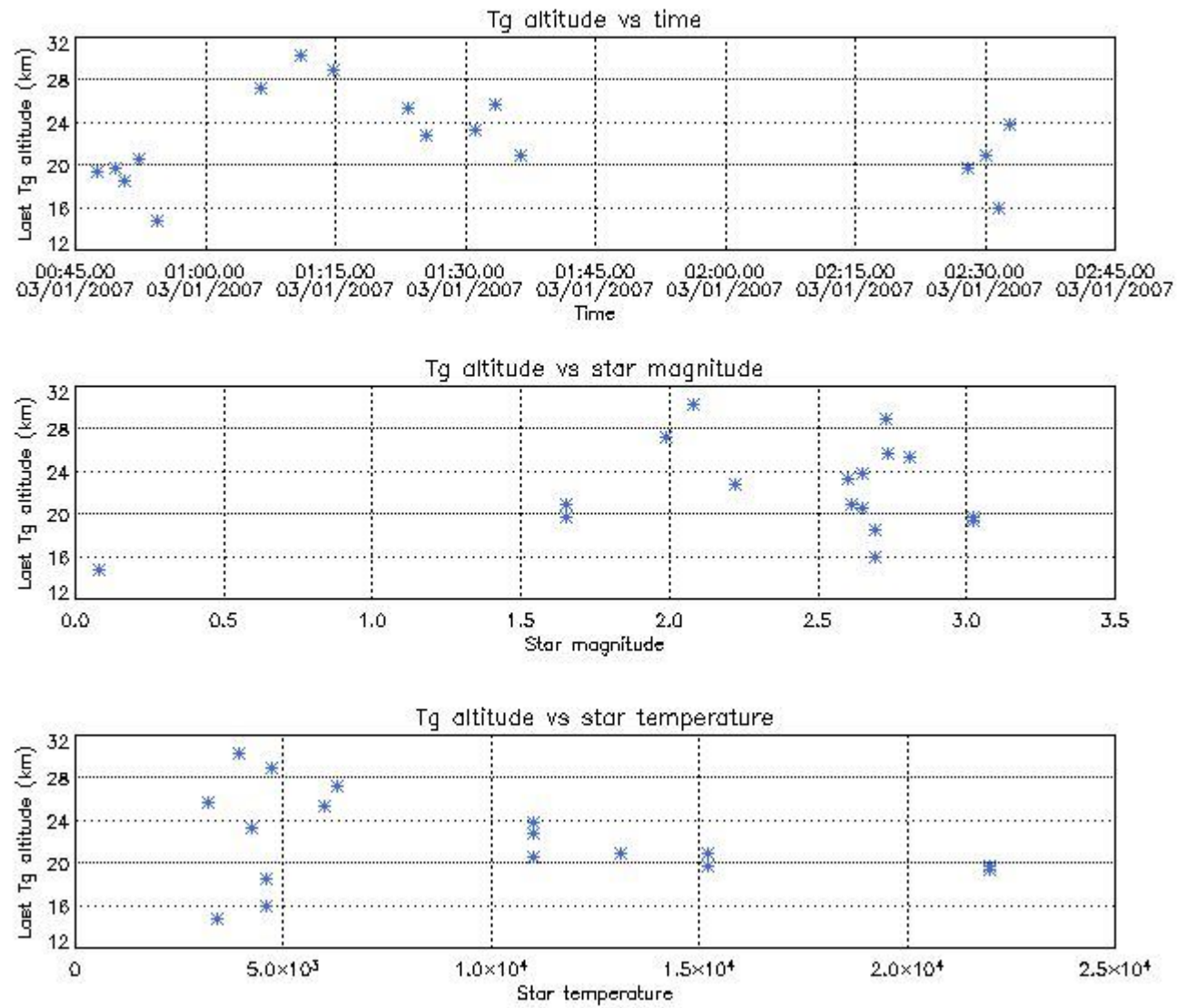
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

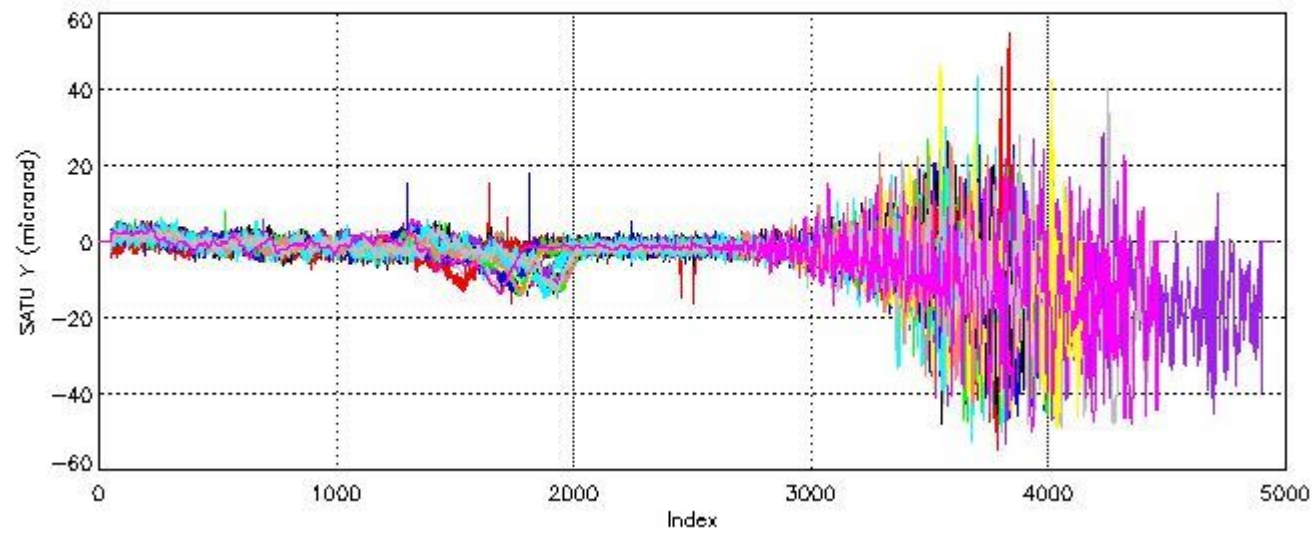
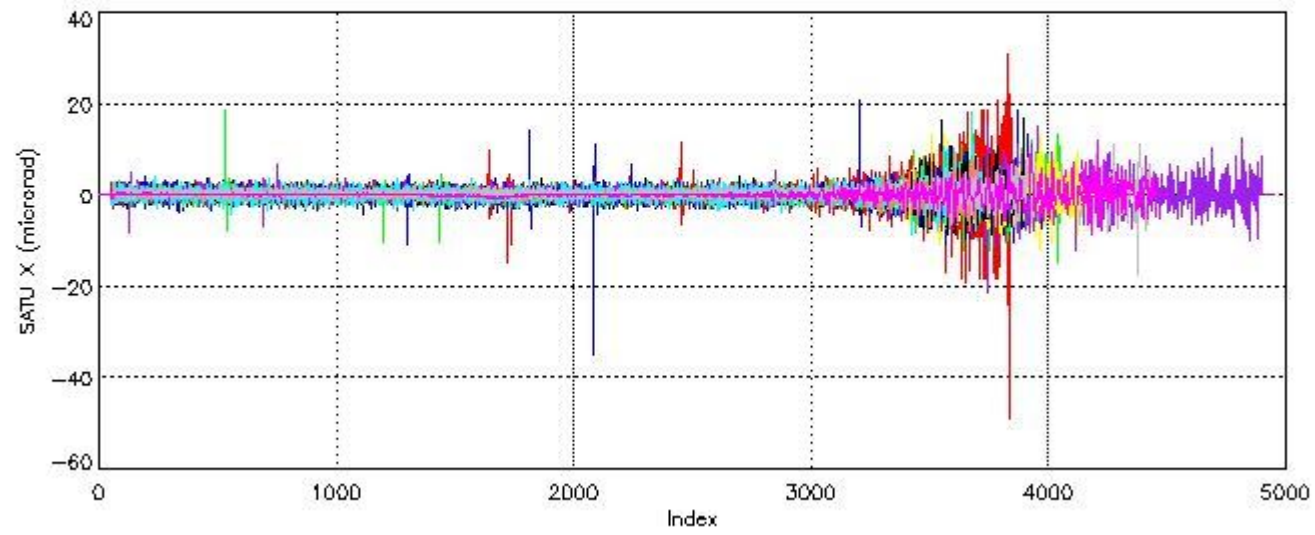


7. Star Acquisition and Tracking Unit (SATU)

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:	0.13007	0.033356	0.10027	-0.48593
St. deviation:	0.60011	1.6113	0.76685	1.7114
Maximum:	18.600	7.8000	4.5000	8.1000
Minimum:	-8.1000	-6.1000	-4.7000	-7.3000

Number of data:	18450.	18450.	14400.	14400.
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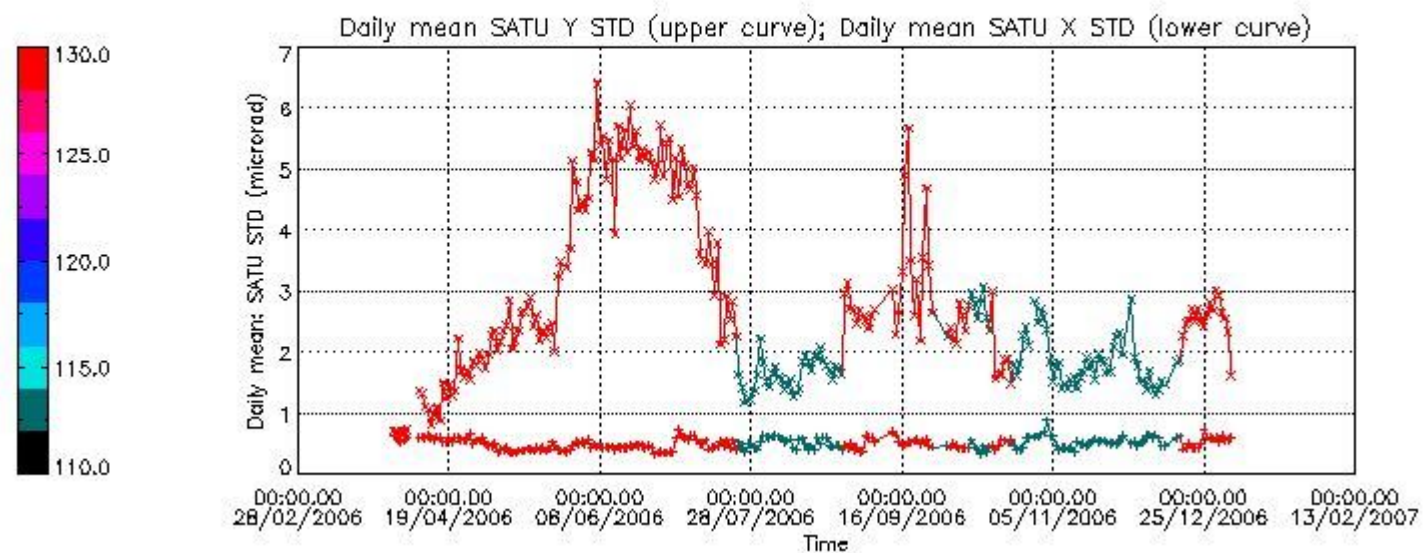
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

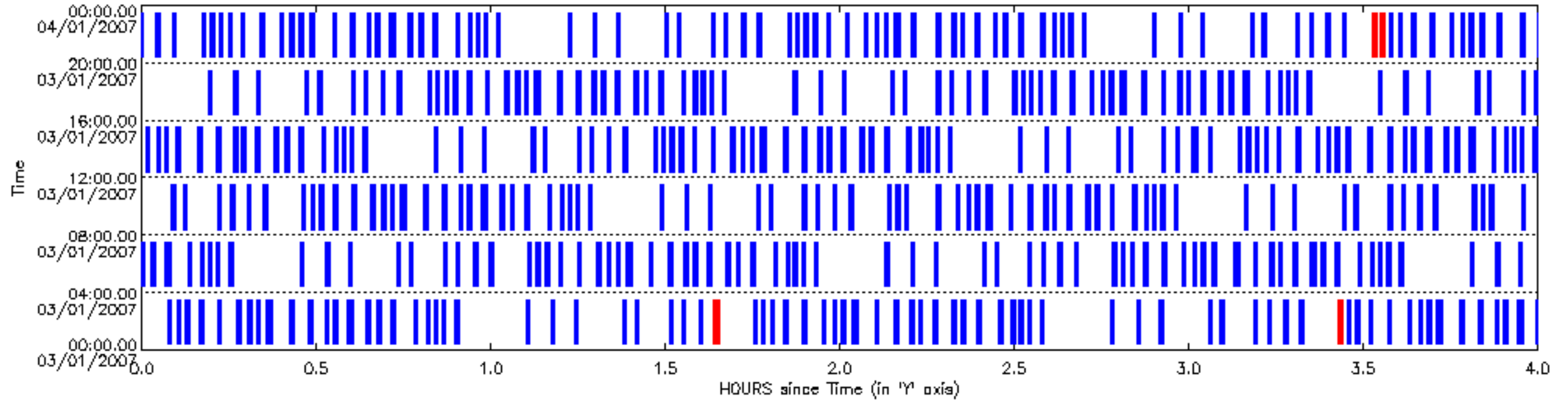
Lower curve: STD of SATU X axis

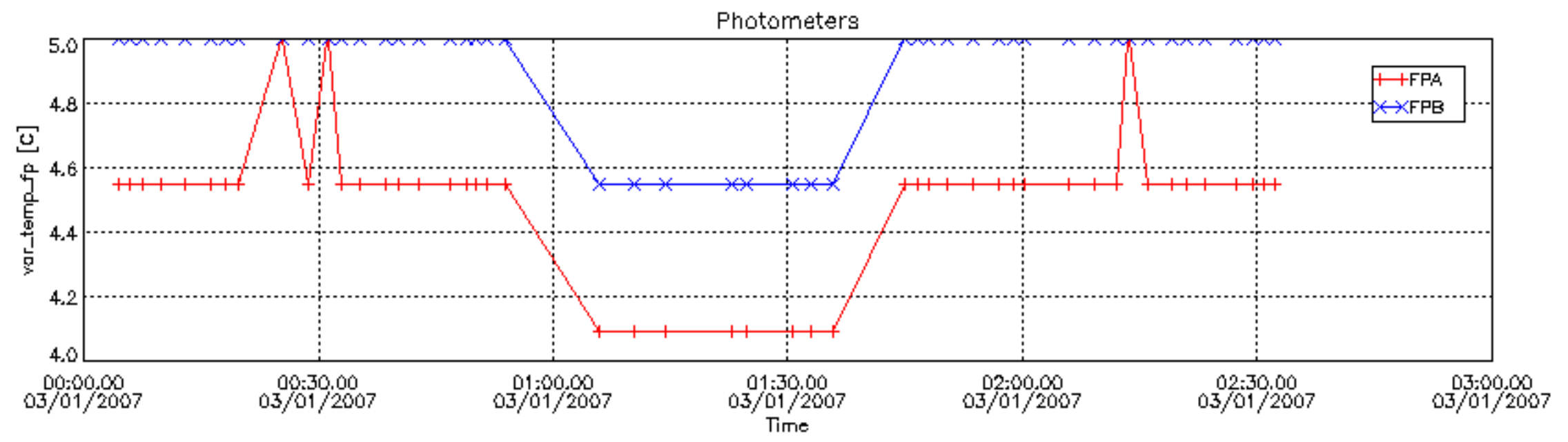
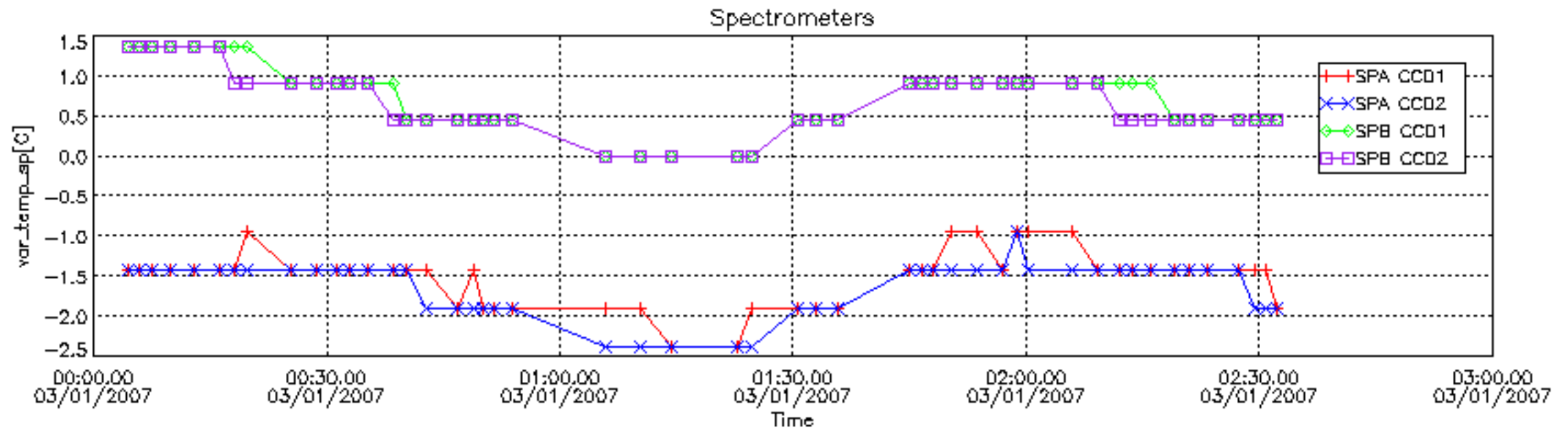


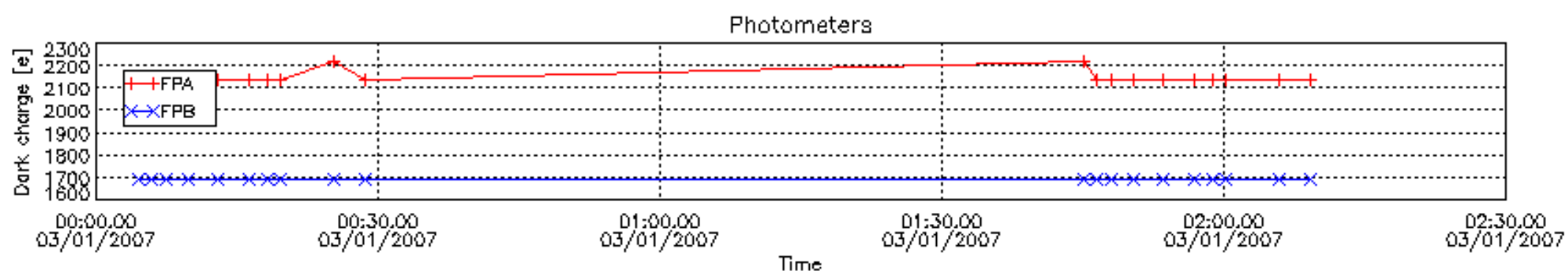
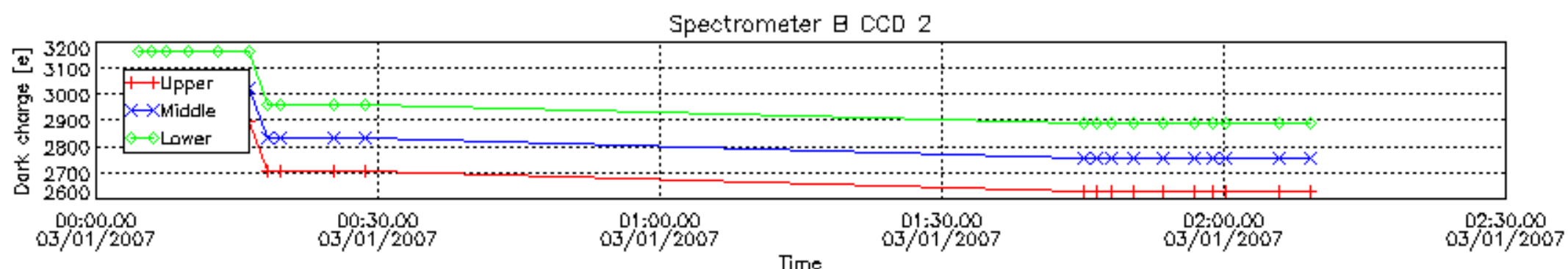
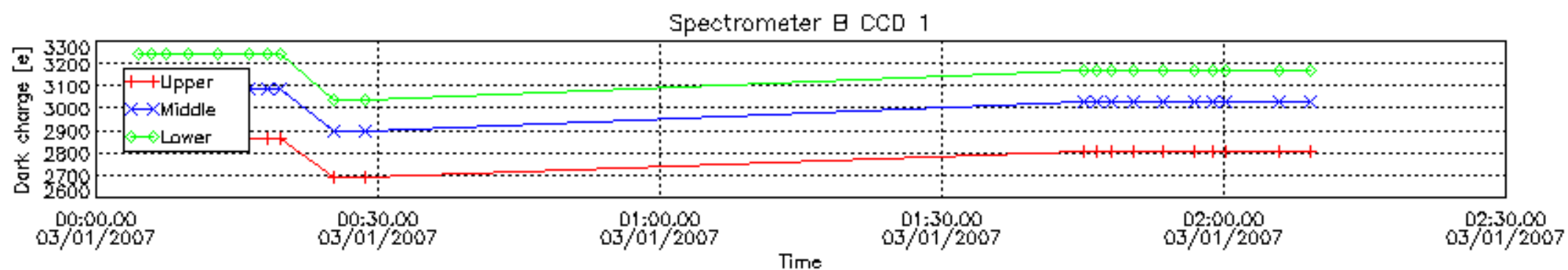
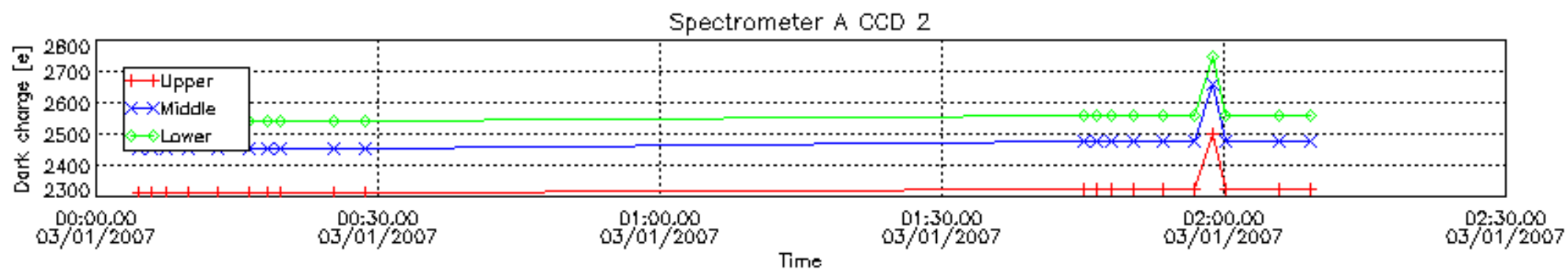
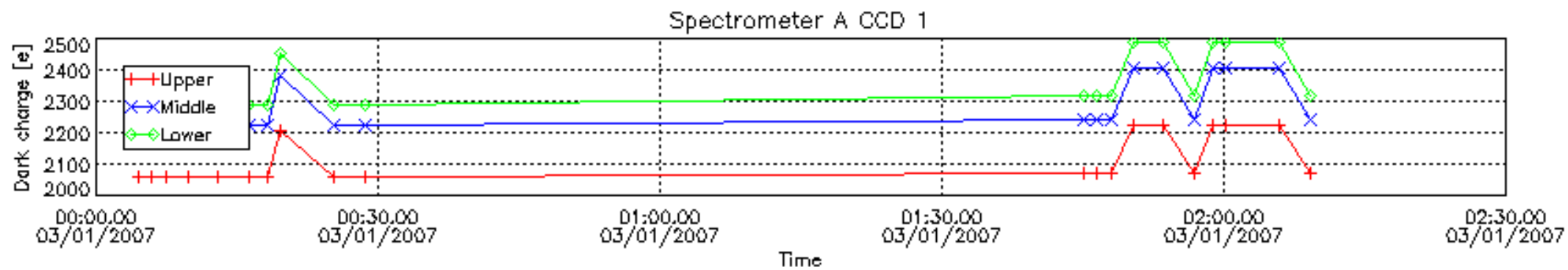
8. Auxiliary Data Files used for the production reported in section 2.4

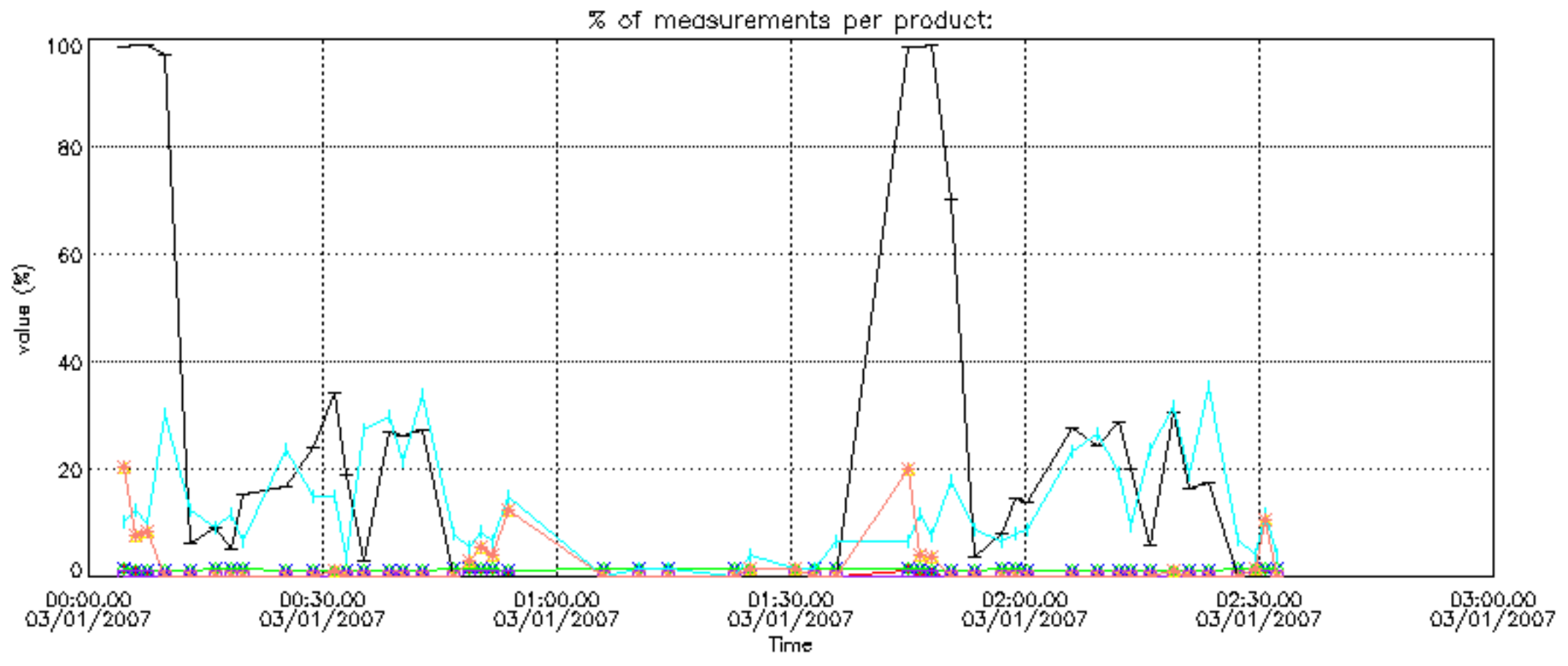
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	03-JAN-2007 00:04:27
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20061222_110846_20061221_000000_20100101_000000	1	03-JAN-2007 00:04:27
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-JAN-2007 00:04:27
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-JAN-2007 00:04:27
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-JAN-2007 00:04:27
ECMWF_FILE	AUX_ECF_AXNECM20070102_062422_20070102_210000_20070103_090000	1	03-JAN-2007 00:04:27
OPTIONAL_ECMWF_FILE	MISSING	1	03-JAN-2007 00:04:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070102_221346_000057382054_00215_25319_2494.N1	1	03-JAN-2007 00:04:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070102_235443_000054192054_00216_25320_2495.N1	29	03-JAN-2007 01:35:42

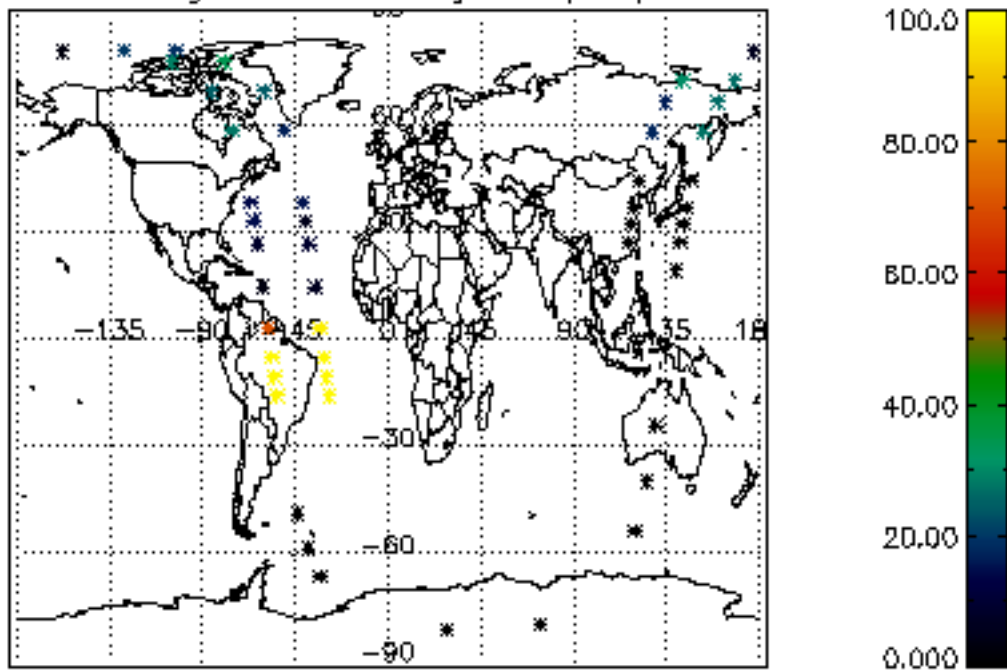




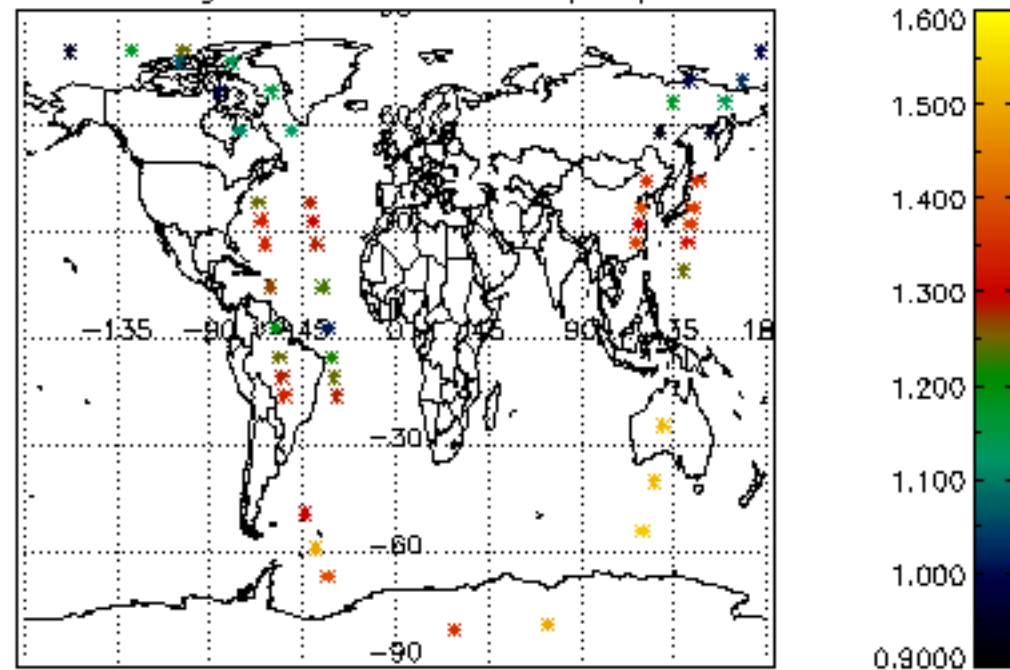




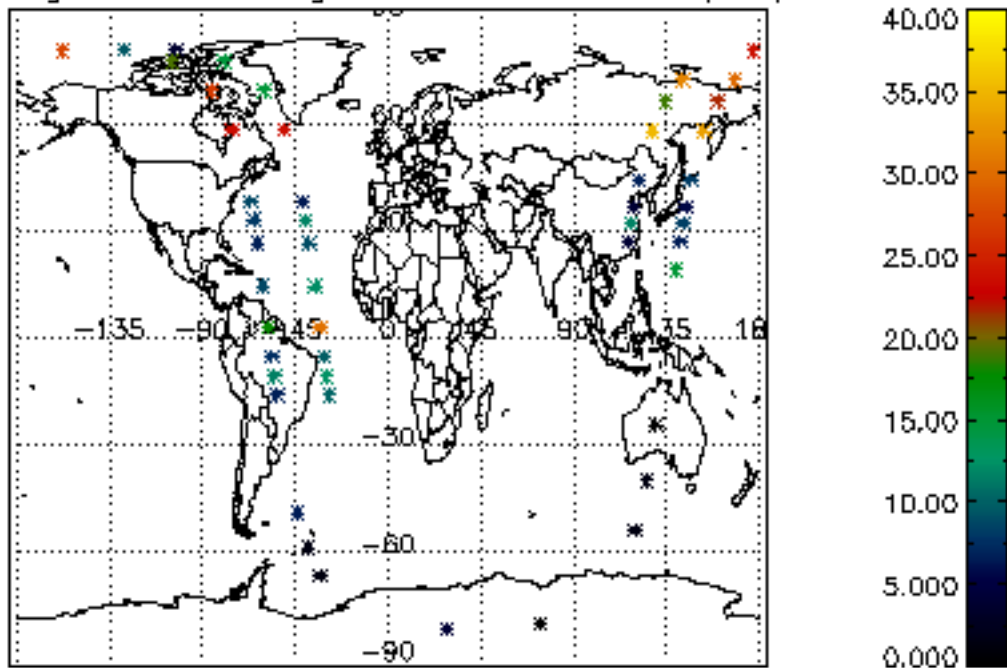
Percentage of cosmic ray hits per profile



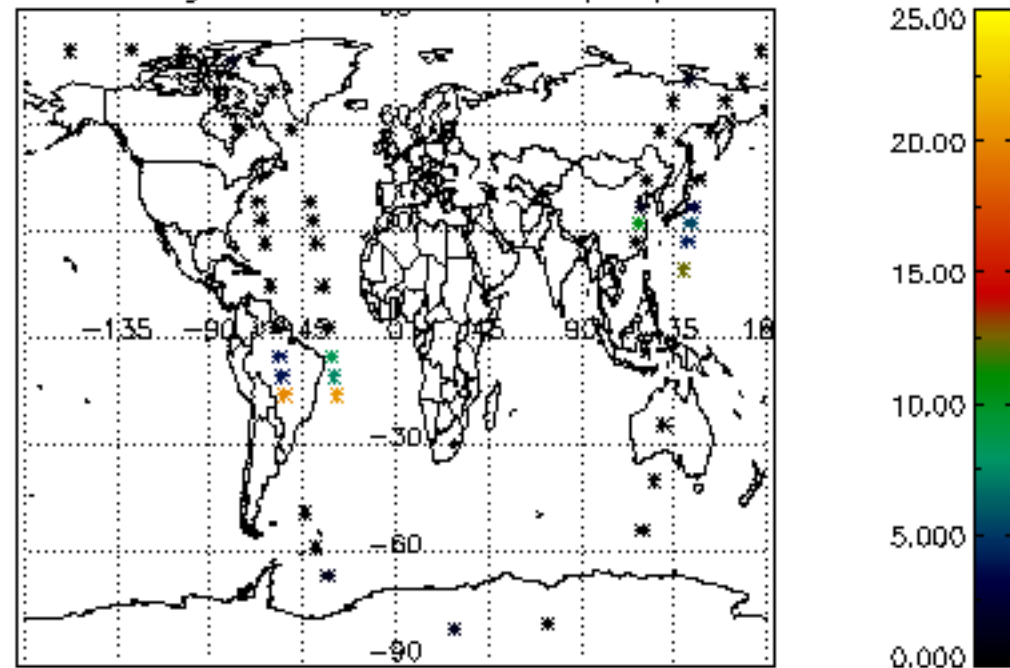
Percentage of datation errors per profile



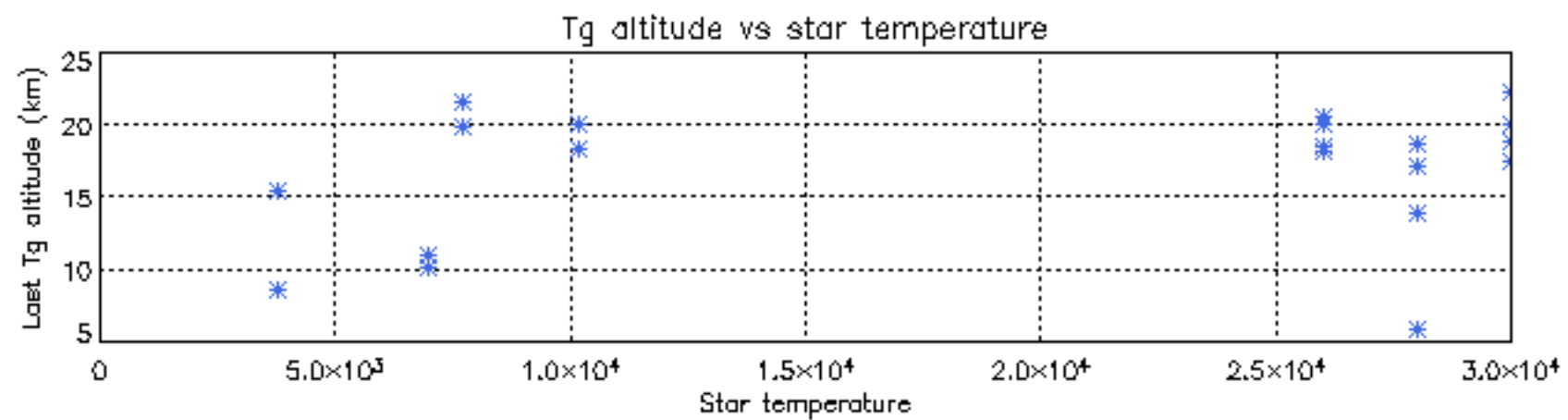
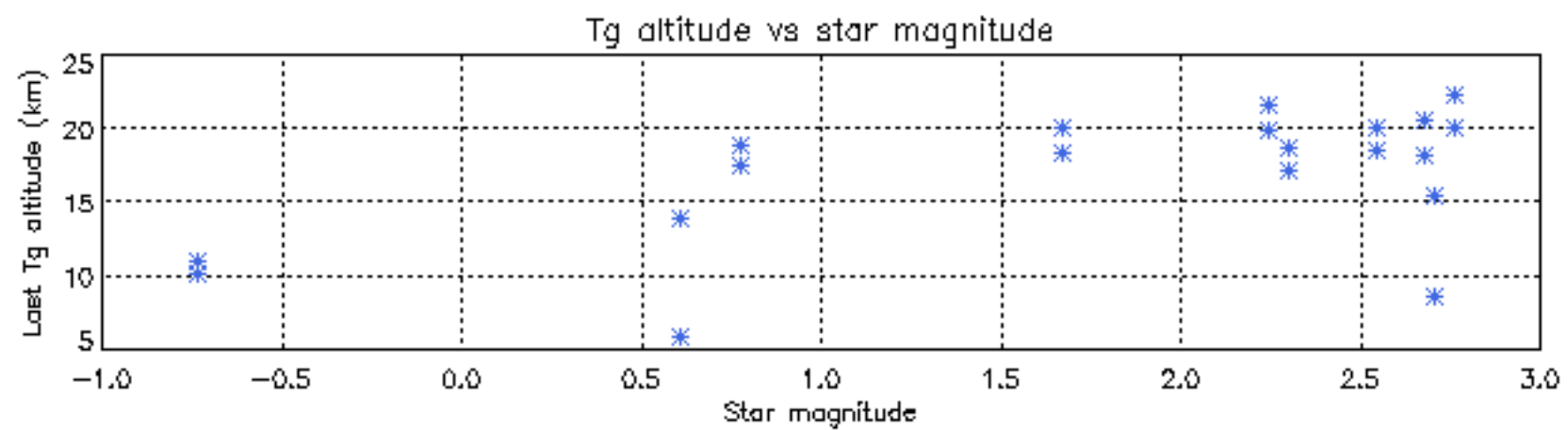
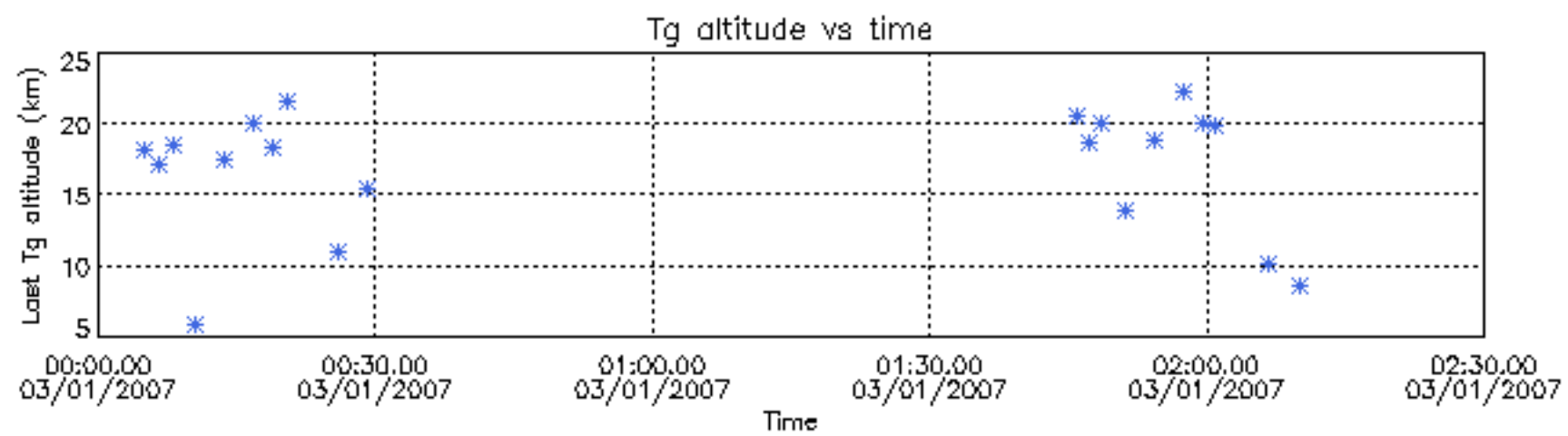
Percentage of star falling outside central band per profile



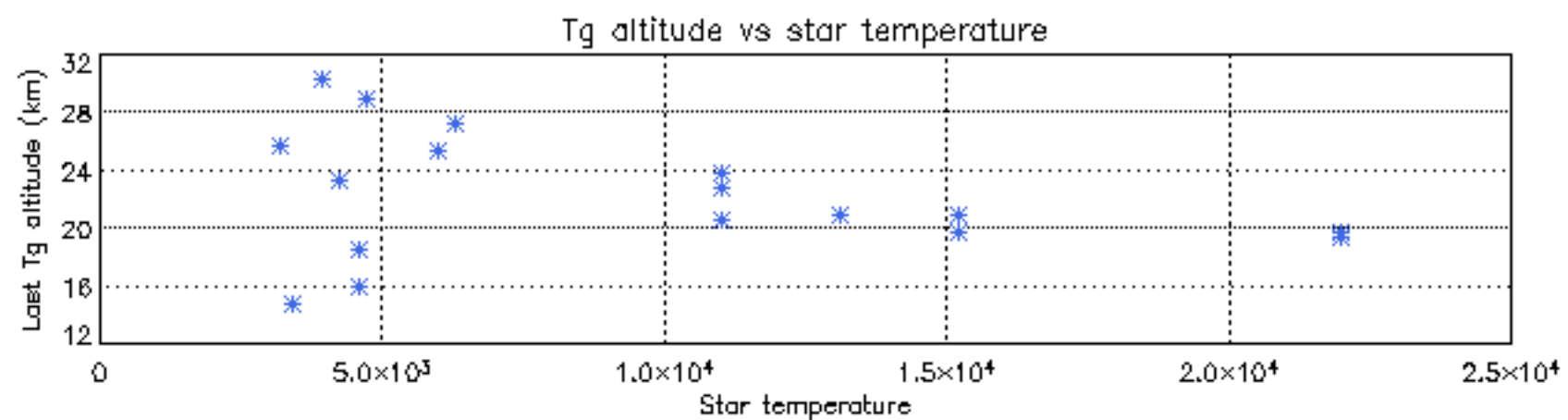
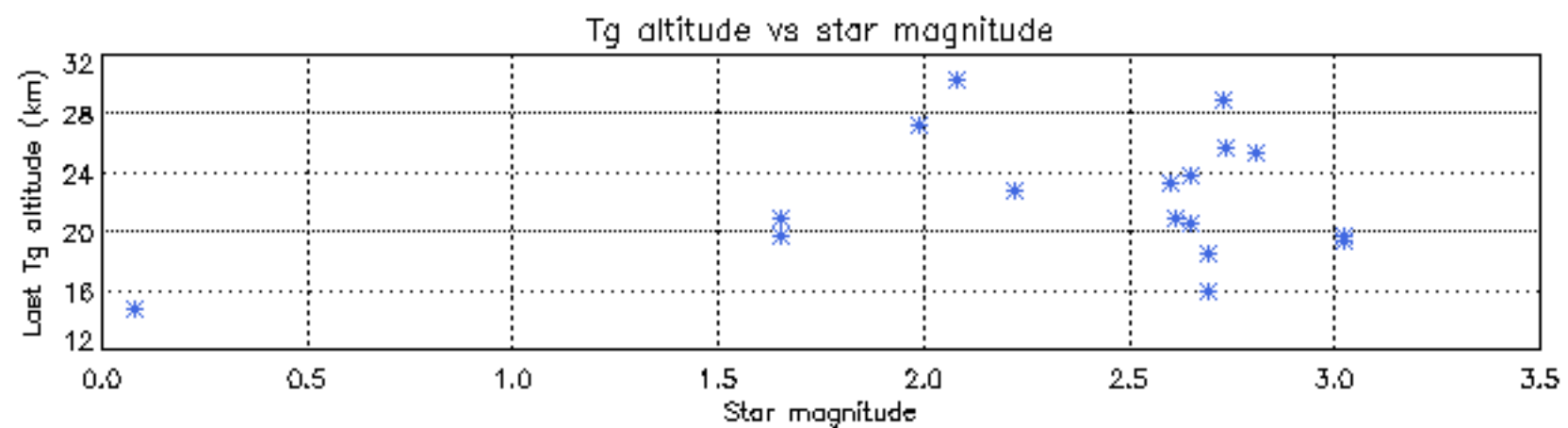
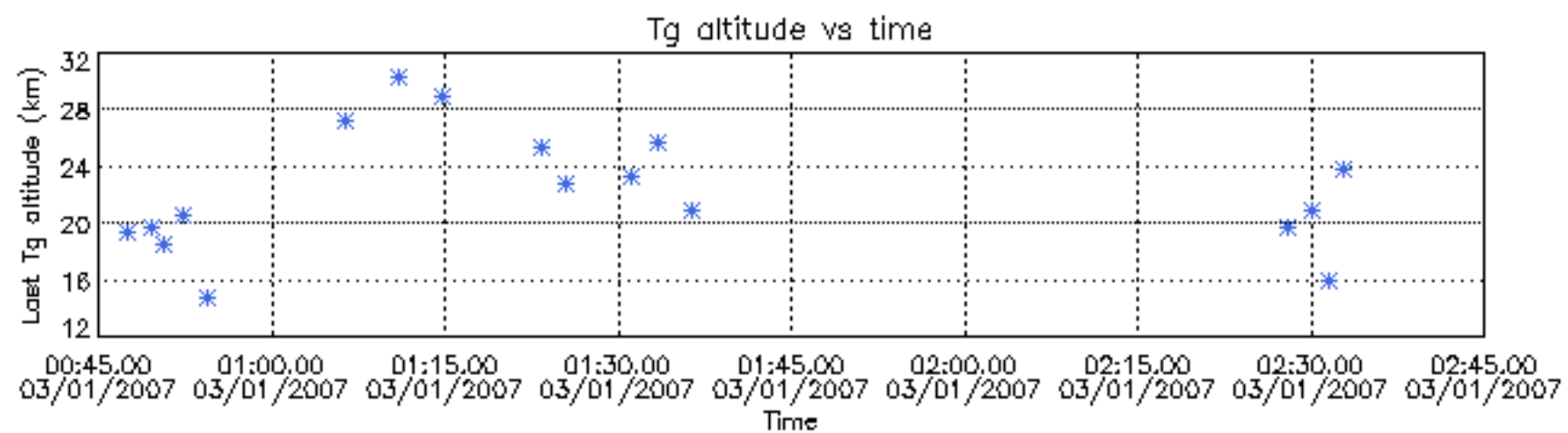
Percentage of saturation errors per profile

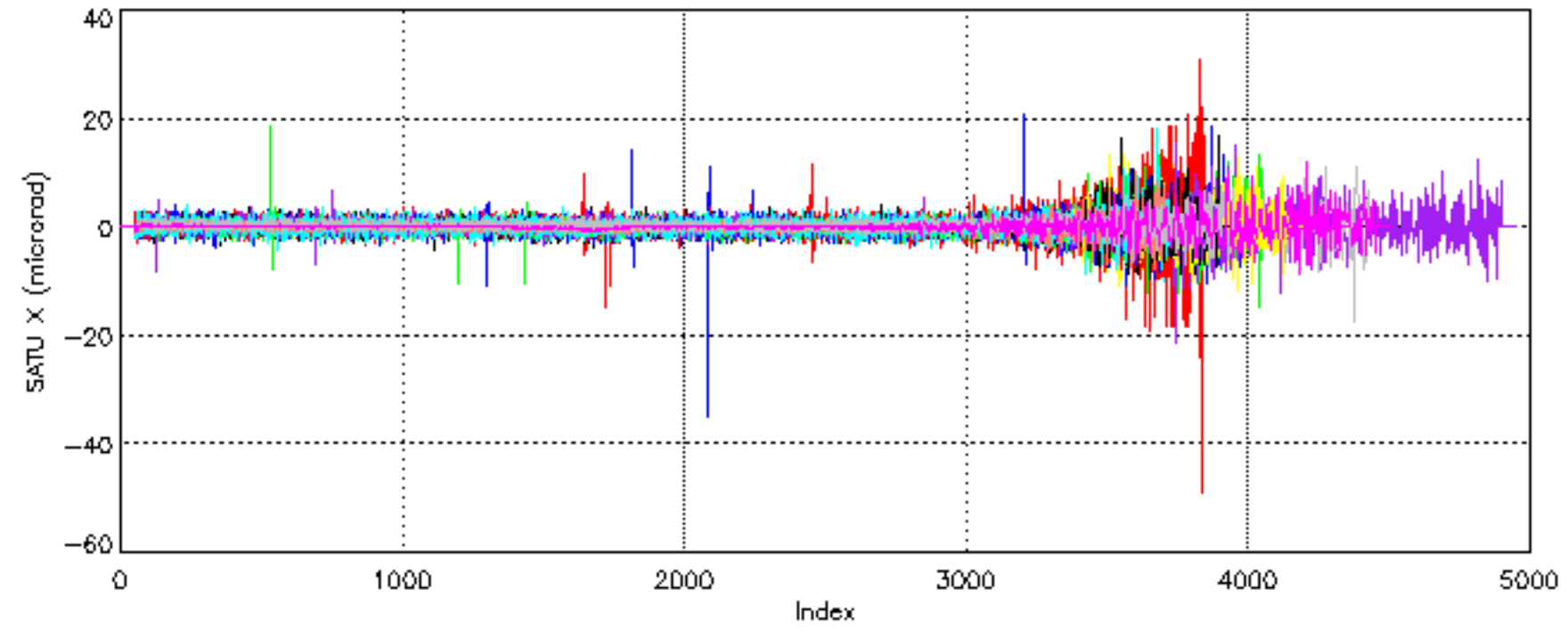


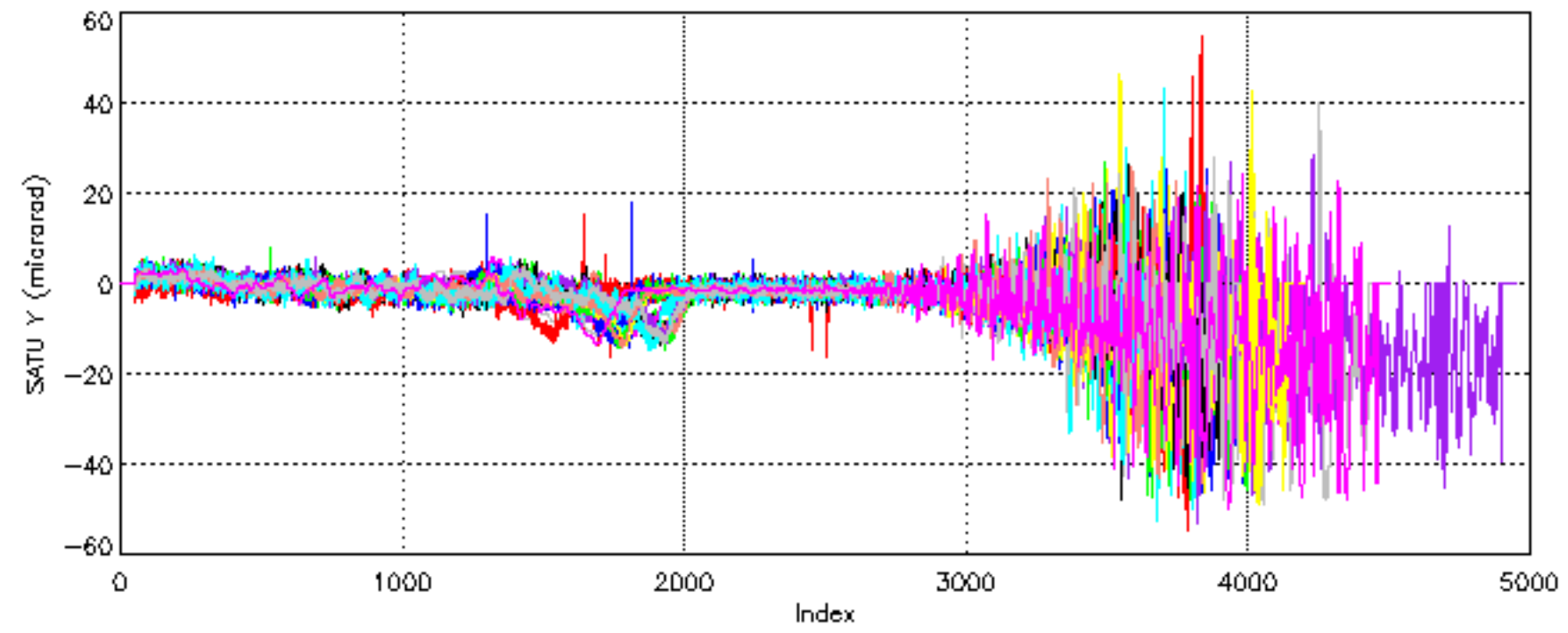
Tangent altitude at which the star is lost

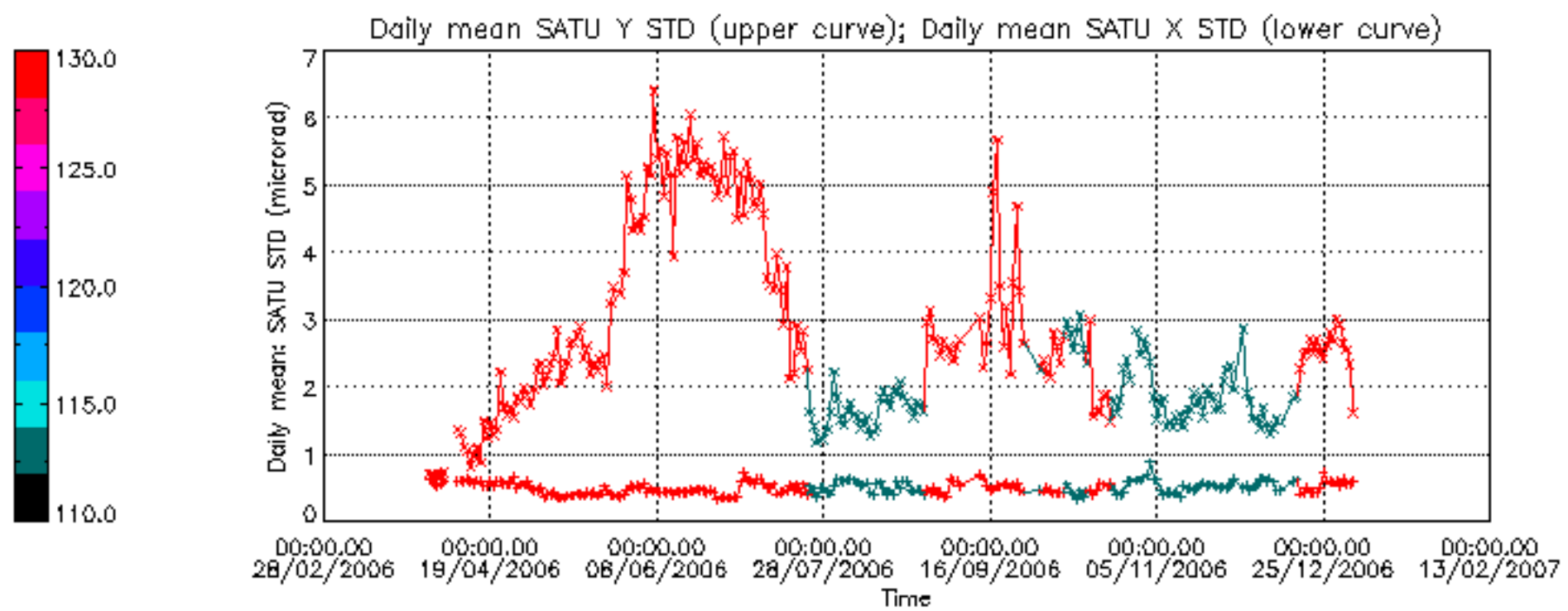


Tangent altitude at which the star is lost









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

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

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17; 2494.2; 13-JAN-2007 20:43:17; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25476
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28; 3923.1; 13-JAN-2007 22:47:42; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;25477
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33; 5171.3; 13-JAN-2007 23:08:30; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;25477

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 4;-1587.4; 13-JAN-2007 06:10:28; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;25467
 5;-1403.6; 13-JAN-2007 06:13:32; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;25467
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3;	-442.4;	24-JAN-2007	22:29:30;	Dark	;	41.5;	75;	26Eps Sco	;	2.29;	4250;occ;	83;	0;	25634
4;	-193.9;	24-JAN-2007	22:33:39;	Dark	;	40.5;	131;	Gam Lup	;	2.80;	26000;occ;	81;	0;	25634
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6;	139.9;	24-JAN-2007	22:39:12;	Dark	;	55.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	110;	0;	25635
7;	314.2;	24-JAN-2007	22:42:07;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25635
8;	413.4;	24-JAN-2007	22:43:46;	Dark	;	40.0;	12;	Alp1Cru	;	0.77;	30000;occ;	80;	0;	25635
9;	655.8;	24-JAN-2007	22:47:48;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	25635
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12;	1051.9;	24-JAN-2007	22:54:24;	Dark	;	39.0;	34;	Gam2Vel	;	1.79;	23000;occ;	78;	0;	25635
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18;	2048.5;	24-JAN-2007	23:11:01;	Dark	;	42.0;	153;	3Bet CMI	;	2.89;	13100;occ;	84;	0;	25635
19;	2188.4;	24-JAN-2007	23:13:21;	Bright;	;	38.5;	44;	24Gam Gem	;	1.93;	11000;occ;	77;	0;	25635
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22;	2676.8;	24-JAN-2007	23:21:29;	Bright;	;	35.5;	42;	34Bet Aur	;	1.90;	10200;occ;	71;	0;	25635
23;	3426.4;	24-JAN-2007	23:33:59;	Bright;	;	35.0;	49;	1Alp UMi	;	1.99;	6300;occ;	70;	0;	25635
24;	4085.8;	24-JAN-2007	23:44:58;	Bright;	;	36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	25635
25;	4289.4;	24-JAN-2007	23:48:22;	Bright;	;	33.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	67;	0;	25635
26;	4770.3;	24-JAN-2007	23:56:23;	Bright;	;	34.0;	59;	55Alp Oph	;	2.08;	8900;occ;	68;	0;	25635
27;	4896.8;	24-JAN-2007	23:58:29;	Bright;	;	34.0;	126;	60Bet Oph	;	2.77;	4250;occ;	68;	0;	25635
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6;	-532.8;	24-JAN-2007	07:22:36;	Dark	;	49.0;	16;	21Alp Sco	;	1.02;	3000;occ;	98;	0;	25625
7;	-445.8;	24-JAN-2007	07:24:03;	Dark	;	41.0;	75;	26Eps Sco	;	2.29;	4250;occ;	82;	0;	25625
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18;	1176.0;	24-JAN-2007	07:51:05;	Dark	;	41.5;	70;	Zet Pup	;	2.25;	39000;occ;	83;	0;	25626
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5;	2548.0;	24-JAN-2007	08:13:57;	Bright;	;	35.0;	107;	37The Aur	;	2.65;	11000;occ;	70;	0;	25626
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 8; 4294.6; 27-JAN-2007 10:29:25; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;25670
 9; 4778.6; 27-JAN-2007 10:37:29; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;25670
 10; 4905.6; 27-JAN-2007 10:39:36; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;25670
 11; 5282.6; 27-JAN-2007 10:45:53; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;25670
 12; 5528.1; 27-JAN-2007 10:49:59; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0;25670
 13; 5609.1; 27-JAN-2007 10:51:20; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;25670
 14; 5867.4; 27-JAN-2007 10:55:38; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;25670
 15; 6103.1; 27-JAN-2007 10:59:34; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;25670
 16; 6194.3; 27-JAN-2007 11:01:05; Dark ; 40.0; 4; Alp1Cen ; -0.01; 5800;occ; 80; 0;25670
 17; 6360.6; 27-JAN-2007 11:03:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25670
 18; 6469.2; 27-JAN-2007 11:05:40; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;25670
 19; 6701.4; 27-JAN-2007 11:09:32; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25670
 20; 6836.3; 27-JAN-2007 11:11:47; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;25670
 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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 2; 1994.2; 27-JAN-2007 11:31:41; Dark ; 45.5; 8; 10Alp CMI ; 0.40; 6500;occ; 91; 0;25671
 3; 2191.2; 27-JAN-2007 11:34:58; Bright; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;25671
 4; 2299.0; 27-JAN-2007 11:36:45; Bright; 37.5; 151; 13Mu Gem ; 2.89; 3000;occ; 75; 0;25671
 5; 2554.1; 27-JAN-2007 11:41:01; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;25671
 6; 2681.3; 27-JAN-2007 11:43:08; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;25671
 7; 3427.0; 27-JAN-2007 11:55:33; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25671
 8; 4086.7; 27-JAN-2007 12:06:33; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;25671
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 12; 5283.1; 27-JAN-2007 12:26:29; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;25671
 13; 5528.7; 27-JAN-2007 12:30:35; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;25671
 14; 5609.6; 27-JAN-2007 12:31:56; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;25671
 15; 5868.2; 27-JAN-2007 12:36:15; Dark ; 41.0; 131; Gam Lup ; 2.80; 26000;occ; 82; 0;25671
 16; 6103.5; 27-JAN-2007 12:40:10; Dark ; 36.0; 134; Bet TrA ; 2.81; 6600;occ; 72; 0;25671
 17; 6194.9; 27-JAN-2007 12:41:41; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;25671
 18; 6360.9; 27-JAN-2007 12:44:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25671
 19; 6469.8; 27-JAN-2007 12:46:16; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;25671
 20; 6701.6; 27-JAN-2007 12:50:08; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;25671
 21; 6836.6; 27-JAN-2007 12:52:23; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;25671
 22; 6943.9; 27-JAN-2007 12:54:10; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;25671
 23; 7098.6; 27-JAN-2007 12:56:45; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;25671
 24; 7224.4; 27-JAN-2007 12:58:51; Dark ; 39.5; 70; Zet Pup ; 2.25; 39000;occ; 79; 0;25671
 25; 7311.3; 27-JAN-2007 13:00:18; Dark ; 39.5; 117; Pi Pup ; 2.71; 3800;occ; 79; 0;25671
 26; 7458.5; 27-JAN-2007 13:02:45; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;25671
 27; 7541.2; 27-JAN-2007 13:04:08; Dark ; 35.5; 179; 240mi2CMA ; 3.03; 24000;occ; 71; 0;25671

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 2; 1994.1; 27-JAN-2007 13:12:16; Dark ; 50.5; 8; 10Alp CMI ; 0.40; 6500;occ; 101; 0;25672
 3; 2191.3; 27-JAN-2007 13:15:34; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;25672

4; 2299.2; 27-JAN-2007 13:17:21; Bright; 37.5; 151; 13Mu Gem ; 2.89; 3000;occ; 75; 0;25672
5; 2554.3; 27-JAN-2007 13:21:37; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;25672
6; 2681.5; 27-JAN-2007 13:23:44; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;25672
7; 3427.1; 27-JAN-2007 13:36:09; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;25672
8; 4086.8; 27-JAN-2007 13:47:09; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;25672
9; 4295.1; 27-JAN-2007 13:50:37; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;25672
10; 4779.4; 27-JAN-2007 13:58:42; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;25672
11; 4906.2; 27-JAN-2007 14:00:48; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;25672
12; 5283.7; 27-JAN-2007 14:07:06; Dark ; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;25672
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
15; 5868.9; 27-JAN-2007 14:16:51; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;25672
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
18; 6361.2; 27-JAN-2007 14:25:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25672
19; 6470.4; 27-JAN-2007 14:26:53; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;25672
20; 6702.0; 27-JAN-2007 14:30:44; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25672
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
23; 7098.7; 27-JAN-2007 14:37:21; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;25672
24; 7224.8; 27-JAN-2007 14:39:27; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;25672
25; 7311.5; 27-JAN-2007 14:40:54; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;25672
26; 7458.7; 27-JAN-2007 14:43:21; Dark ; 3.0; 23; 21Eps CMA ; 1.50; 26000;occ; 6; 0;25672

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2; 1505.6; 27-JAN-2007 14:44:44; Dark ; 36.0; 179; 240mi2CMA ; 3.03; 24000;occ; 72; 0;25673
3; 1634.7; 27-JAN-2007 14:46:53; Dark ; 43.5; 1; 9Alp CMA ;-1.44; 11000;occ; 87; 0;25673
4; 1994.1; 27-JAN-2007 14:52:52; Dark ; 49.0; 8; 10Alp CMi ; 0.40; 6500;occ; 98; 0;25673
5; 2191.4; 27-JAN-2007 14:56:10; Bright; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;25673
6; 2299.4; 27-JAN-2007 14:57:58; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;25673
7; 2554.6; 27-JAN-2007 15:02:13; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;25673
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
10; 4086.9; 27-JAN-2007 15:27:45; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;25673
11; 4295.2; 27-JAN-2007 15:31:13; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;25673
12; 4779.8; 27-JAN-2007 15:39:18; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;25673
13; 4906.4; 27-JAN-2007 15:41:25; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;25673
14; 5284.2; 27-JAN-2007 15:47:42; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;25673
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
20; 6361.6; 27-JAN-2007 16:05:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25673
21; 6471.0; 27-JAN-2007 16:07:29; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;25673
22; 6702.3; 27-JAN-2007 16:11:20; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;25673
23; 6837.5; 27-JAN-2007 16:13:36; Dark ; 37.0; 71; Iot Car ; 2.25; 7700;occ; 74; 0;25673
24; 6944.6; 27-JAN-2007 16:15:23; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;25673
25; 7099.1; 27-JAN-2007 16:17:57; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;25673
26; 7225.1; 27-JAN-2007 16:20:03; Dark ; 38.0; 70; Zet Pup ; 2.25; 39000;occ; 76; 0;25673
27; 7311.8; 27-JAN-2007 16:21:30; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;25673

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5; 1994.0; 27-JAN-2007 16:33:28; Dark ; 47.5; 8; 10Alp CMi ; 0.40; 6500;occ; 95; 0;25674
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7; 2299.4; 27-JAN-2007 16:38:34; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;25674
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9; 2681.7; 27-JAN-2007 16:44:56; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;25674
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11; 4087.2; 27-JAN-2007 17:08:21; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;25674
12; 4295.5; 27-JAN-2007 17:11:50; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;25674
13; 4780.0; 27-JAN-2007 17:19:54; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;25674
14; 4906.6; 27-JAN-2007 17:22:01; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;25674
15; 5284.5; 27-JAN-2007 17:28:19; Dark ; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;25674
16; 5530.6; 27-JAN-2007 17:32:25; Dark ; 57.0; 16; 21Alp Sco ; 1.02; 3000;occ; 114; 0;25674

17; 5611.1; 27-JAN-2007 17:33:45; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;25674
 18; 5870.5; 27-JAN-2007 17:38:05; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;25674
 19; 6104.6; 27-JAN-2007 17:41:59; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;25674
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 21; 6361.9; 27-JAN-2007 17:46:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25674
 22; 6471.6; 27-JAN-2007 17:48:06; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;25674
 23; 6702.7; 27-JAN-2007 17:51:57; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;25674
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 25; 6945.0; 27-JAN-2007 17:55:59; Dark ; 36.5; 46; Del Vel ; 1.95; 10600;occ; 73; 0;25674

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 11; 2681.8; 27-JAN-2007 18:25:32; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;25675
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 13; 4086.9; 27-JAN-2007 18:48:57; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;25675
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 16; 4906.8; 27-JAN-2007 19:02:37; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;25675
 17; 5284.8; 27-JAN-2007 19:08:55; Dark ; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;25675
 18; 5531.2; 27-JAN-2007 19:13:01; Dark ; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;25675
 19; 5611.5; 27-JAN-2007 19:14:22; Dark ; 40.5; 75; 26Eps Sco ; 2.29; 4250;occ; 81; 0;25675
 20; 5871.4; 27-JAN-2007 19:18:42; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;25675
 21; 6105.0; 27-JAN-2007 19:22:35; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;25675
 22; 6197.0; 27-JAN-2007 19:24:07; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;25675
 23; 6362.1; 27-JAN-2007 19:26:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25675
 24; 6472.0; 27-JAN-2007 19:28:42; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;25675
 25; 6702.7; 27-JAN-2007 19:32:33; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0;25675
 26; 6838.2; 27-JAN-2007 19:34:48; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;25675
 27; 6945.2; 27-JAN-2007 19:36:35; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;25675

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1; -718.6; 28-JAN-2007 00:11:15; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 63;25678
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 4; -162.8; 28-JAN-2007 00:20:31; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;25678

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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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