

GOMOS Daily Report 19-JUN-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	21JUN2007 05:34:56
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (19JUN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20JUN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

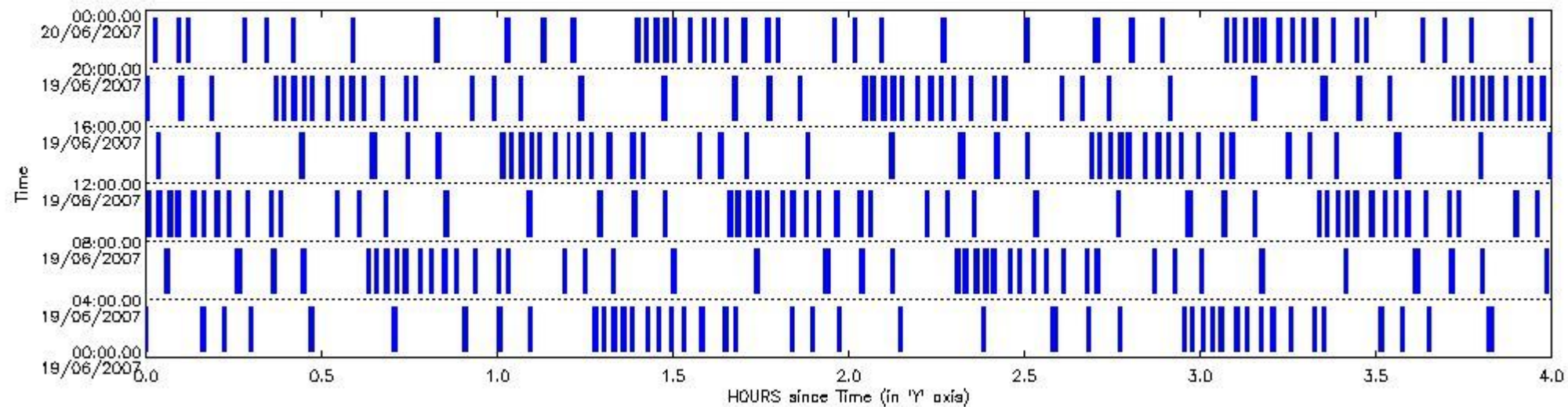
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

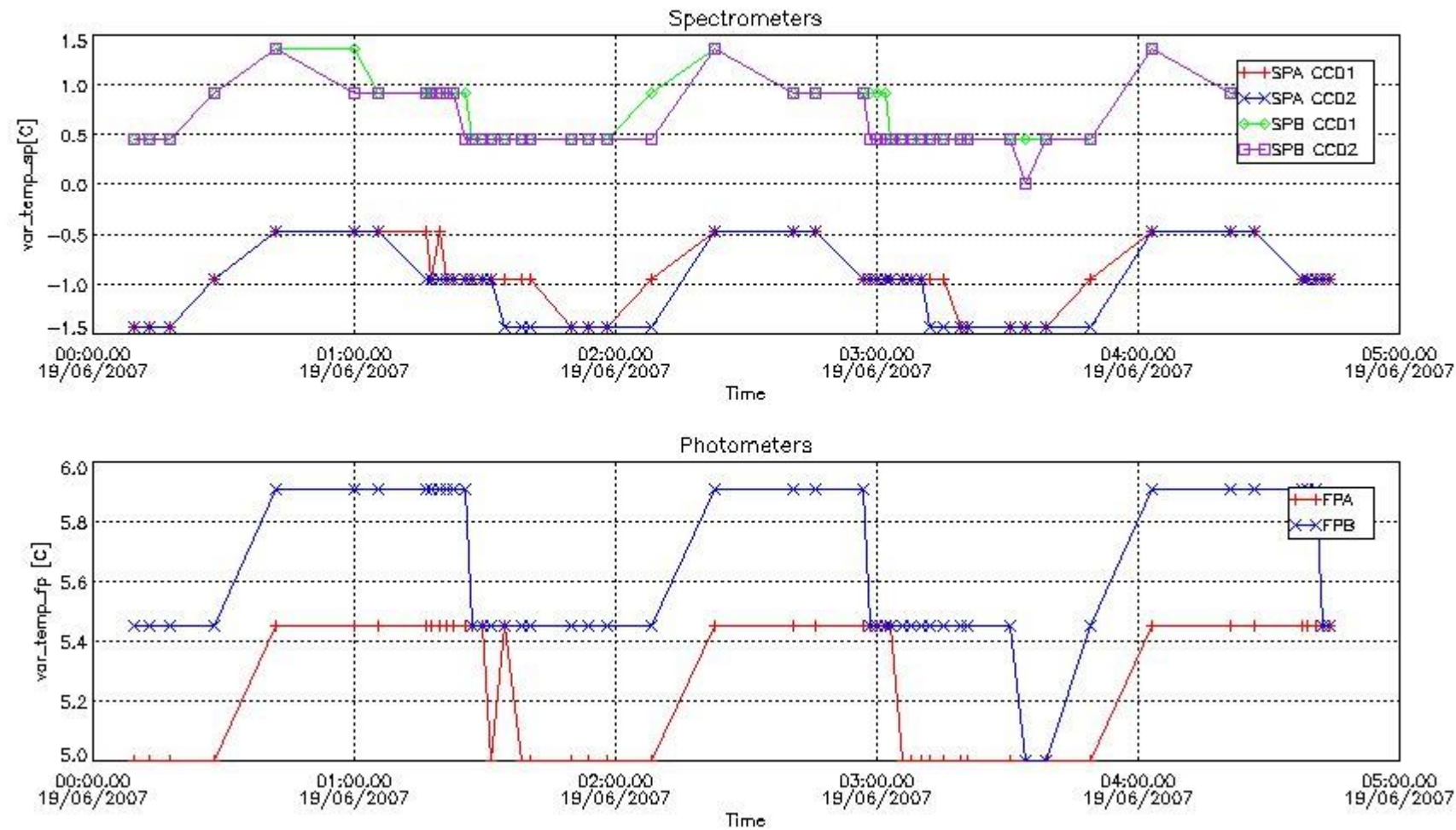
No missing products.

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_1PNPDE20070619_000922_000000362059_00102_27711_4046.N1	19-JUN-2007 00:09:22	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27711	No
2	GOM_TRA_1PNPDE20070619_001257_000000372059_00102_27711_4047.N1	19-JUN-2007 00:12:57	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	27711	No
3	GOM_TRA_1PNPDE20070619_001732_000000342059_00102_27711_4048.N1	19-JUN-2007 00:17:32	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	27711	No
4	GOM_TRA_1PNPDE20070619_002749_000000382059_00102_27711_4049.N1	19-JUN-2007 00:27:49	Bright	37.500	160	23Gam Per	2.9300	4700.0	75	27711	No
5	GOM_TRA_1PNPDE20070619_004201_000000462059_00102_27711_4050.N1	19-JUN-2007 00:42:01	Dark	45.500	94	92Alp Cet	2.5260	3100.0	91	27711	No
6	GOM_TRA_1PNPDE20070619_010000_000000432059_00102_27711_4174.N1	19-JUN-2007 01:00:00	Dark	43.000	9	Alp Eri	0.45300	24000.	86	27711	No
7	GOM_TRA_1PNPDE20070619_010519_000000362059_00103_27712_4175.N1	19-JUN-2007 01:05:19	Dark	35.500	135	Bet Hyi	2.8200	5800.0	71	27712	No
8	GOM_TRA_1PNPDE20070619_011619_000000412059_00103_27712_4176.N1	19-JUN-2007 01:16:19	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	27712	No
9	GOM_TRA_1PNPDE20070619_011743_000000392059_00103_27712_4177.N1	19-JUN-2007 01:17:43	Straylight	38.500	147	Alp Ara	2.8770	26000.	77	27712	No
10	GOM_TRA_1PNPDE20070619_011928_000000432059_00103_27712_4178.N1	19-JUN-2007 01:19:28	Twilight_stray	42.500	40	The Sco	1.8590	7100.0	85	27712	No
11	GOM_TRA_1PNPDE20070619_012110_000000442059_00103_27712_4179.N1	19-JUN-2007 01:21:10	Twilight_stray	43.500	25	35Lam Sco	1.6200	28000.	87	27712	No
12	GOM_TRA_1PNPDE20070619_012235_000000422059_00103_27712_4180.N1	19-JUN-2007 01:22:35	Bright	41.500	75	26Eps Sco	2.2910	4250.0	83	27712	No

13	GOM_TRA_1PNPDE20070619_012519_000000372059_00103_27712_4181.N1	19-JUN-2007 01:25:19	Bright	36.500	156	20Sig Sco	2.9030	28000.	73	27712	No
14	GOM_TRA_1PNPDE20070619_012705_000000372059_00103_27712_4182.N1	19-JUN-2007 01:27:05	Bright	36.500	97	8Bet1Sco	2.5610	30000.	73	27712	No
15	GOM_TRA_1PNPDE20070619_012924_000000372059_00103_27712_4183.N1	19-JUN-2007 01:29:24	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	27712	No
16	GOM_TRA_1PNPDE20070619_013130_000000362059_00103_27712_4184.N1	19-JUN-2007 01:31:30	Bright	36.000	120	1Del Oph	2.7340	3200.0	72	27712	No
17	GOM_TRA_1PNPDE20070619_013434_000000352059_00103_27712_4185.N1	19-JUN-2007 01:34:34	Bright	35.000	102	24Alp Ser	2.6000	4250.0	70	27712	No
18	GOM_TRA_1PNPDE20070619_013836_000000382059_00103_27712_4186.N1	19-JUN-2007 01:38:36	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	27712	No
19	GOM_TRA_1PNPDE20070619_014015_000000372059_00103_27712_4187.N1	19-JUN-2007 01:40:15	Bright	36.500	67	5Alp CrB	2.2210	11000.	73	27712	No
20	GOM_TRA_1PNPDE20070619_014958_000000342059_00103_27712_4188.N1	19-JUN-2007 01:49:58	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	27712	No
21	GOM_TRA_1PNPDE20070619_015333_000000322059_00103_27712_4189.N1	19-JUN-2007 01:53:33	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	27712	No
22	GOM_TRA_1PNPDE20070619_015808_000000342059_00103_27712_4190.N1	19-JUN-2007 01:58:08	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	27712	No
23	GOM_TRA_1PNPDE20070619_020825_000000332059_00103_27712_4191.N1	19-JUN-2007 02:08:25	Bright	33.000	160	23Gam Per	2.9300	4700.0	66	27712	No
24	GOM_TRA_1PNPDE20070619_022238_000000422059_00103_27712_4192.N1	19-JUN-2007 02:22:38	Dark	41.500	94	92Alp Cet	2.5260	3100.0	83	27712	No
25	GOM_TRA_1PNPDE20070619_024036_000000382059_00103_27712_4184.N1	19-JUN-2007 02:40:36	Dark	38.000	9	Alp Eri	0.45300	24000.	76	27712	No
26	GOM_TRA_1PNPDE20070619_024555_000000372059_00104_27713_4185.N1	19-JUN-2007 02:45:55	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	27713	No
27	GOM_TRA_1PNPDE20070619_025656_000000392059_00104_27713_4186.N1	19-JUN-2007 02:56:56	Straylight	39.000	141	Bet Ara	2.8400	4600.0	78	27713	No
28	GOM_TRA_1PNPDE20070619_025819_000000382059_00104_27713_4187.N1	19-JUN-2007 02:58:19	Straylight	38.000	147	Alp Ara	2.8770	26000.	76	27713	No
29	GOM_TRA_1PNPDE20070619_030005_000000412059_00104_27713_4188.N1	19-JUN-2007 03:00:05	Twilight	40.500	40	The Sco	1.8590	7100.0	81	27713	No
30	GOM_TRA_1PNPDE20070619_030147_000000412059_00104_27713_4189.N1	19-JUN-2007 03:01:47	Twilight	40.500	25	35Lam Sco	1.6200	28000.	81	27713	No
31	GOM_TRA_1PNPDE20070619_030311_000000412059_00104_27713_4190.N1	19-JUN-2007 03:03:11	Bright	40.500	75	26Eps Sco	2.2910	4250.0	81	27713	No
32	GOM_TRA_1PNPDE20070619_030555_000000372059_00104_27713_4191.N1	19-JUN-2007 03:05:55	Bright	37.000	156	20Sig Sco	2.9030	28000.	74	27713	No
33	GOM_TRA_1PNPDE20070619_030741_000000362059_00104_27713_4192.N1	19-JUN-2007 03:07:41	Bright	36.000	97	8Bet1Sco	2.5610	30000.	72	27713	No
34	GOM_TRA_1PNPDE20070619_031000_000000372059_00104_27713_4193.N1	19-JUN-2007 03:10:00	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	27713	No
35	GOM_TRA_1PNPDE20070619_031205_000000362059_00104_27713_4194.N1	19-JUN-2007 03:12:05	Bright	36.000	120	1Del Oph	2.7340	3200.0	72	27713	No
36	GOM_TRA_1PNPDE20070619_031510_000000342059_00104_27713_4195.N1	19-JUN-2007 03:15:10	Bright	34.000	102	24Alp Ser	2.6000	4250.0	68	27713	No
37	GOM_TRA_1PNPDE20070619_031912_000000362059_00104_27713_4196.N1	19-JUN-2007 03:19:12	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	27713	No
38	GOM_TRA_1PNPDE20070619_032051_000000362059_00104_27713_4197.N1	19-JUN-2007 03:20:51	Bright	35.500	67	5Alp CrB	2.2210	11000.	71	27713	No
39	GOM_TRA_1PNPDE20070619_033034_000000352059_00104_27713_4198.N1	19-JUN-2007 03:30:34	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	27713	No
40	GOM_TRA_1PNPDE20070619_033409_000000352059_00104_27713_4199.N1	19-JUN-2007 03:34:09	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	27713	No
41	GOM_TRA_1PNPDE20070619_033843_000000322059_00104_27713_4200.N1	19-JUN-2007 03:38:43	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	27713	No
42	GOM_TRA_1PNPDE20070619_034901_000000532059_00104_27713_4434.N1	19-JUN-2007 03:49:01	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	27713	No
43	GOM_TRA_1PNPDE20070619_040314_000000432059_00104_27713_4435.N1	19-JUN-2007 04:03:14	Dark	43.000	94	92Alp Cet	2.5260	3100.0	86	27713	No
44	GOM_TRA_1PNPDE20070619_042113_000000482059_00104_27713_4436.N1	19-JUN-2007 04:21:13	Dark	48.000	9	Alp Eri	0.45300	24000.	96	27713	No
45	GOM_TRA_1PNPDE20070619_042631_000000372059_00105_27714_4437.N1	19-JUN-2007 04:26:31	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	27714	No
46	GOM_TRA_1PNPDE20070619_043732_000000402059_00105_27714_4438.N1	19-JUN-2007 04:37:32	Straylight	39.500	141	Bet Ara	2.8400	4600.0	79	27714	No
47	GOM_TRA_1PNPDE20070619_043855_000000362059_00105_27714_4439.N1	19-JUN-2007 04:38:55	Straylight	36.000	147	Alp Ara	2.8770	26000.	72	27714	No
48	GOM_TRA_1PNPDE20070619_044041_000000402059_00105_27714_4440.N1	19-JUN-2007 04:40:41	Twilight	39.500	40	The Sco	1.8590	7100.0	79	27714	No
49	GOM_TRA_1PNPDE20070619_044223_000000422059_00105_27714_4441.N1	19-JUN-2007 04:42:23	Twilight	42.000	25	35Lam Sco	1.6200	28000.	84	27714	No
50	GOM_TRA_1PNPDE20070619_044347_000000442059_00105_27714_4442.N1	19-JUN-2007 04:43:47	Bright	44.000	75	26Eps Sco	2.2910	4250.0	88	27714	No

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



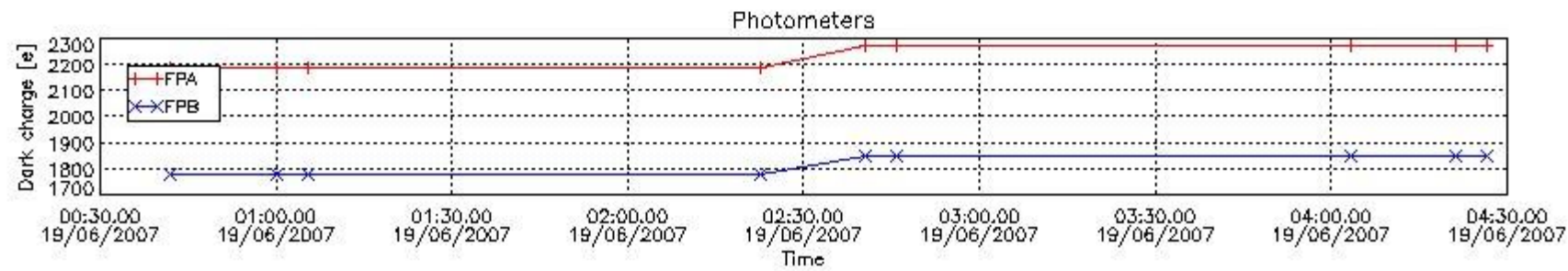
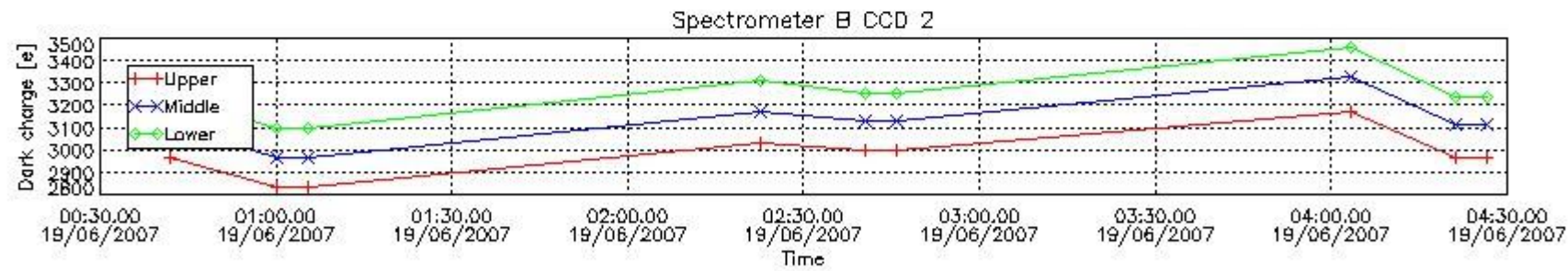
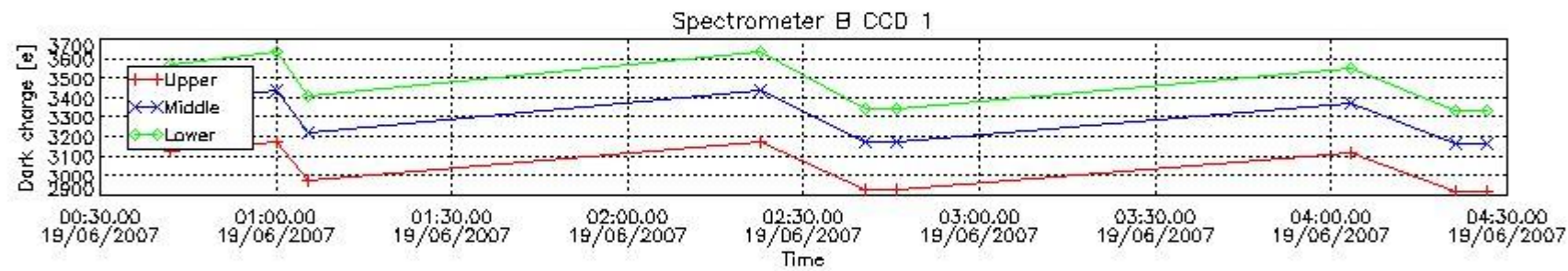
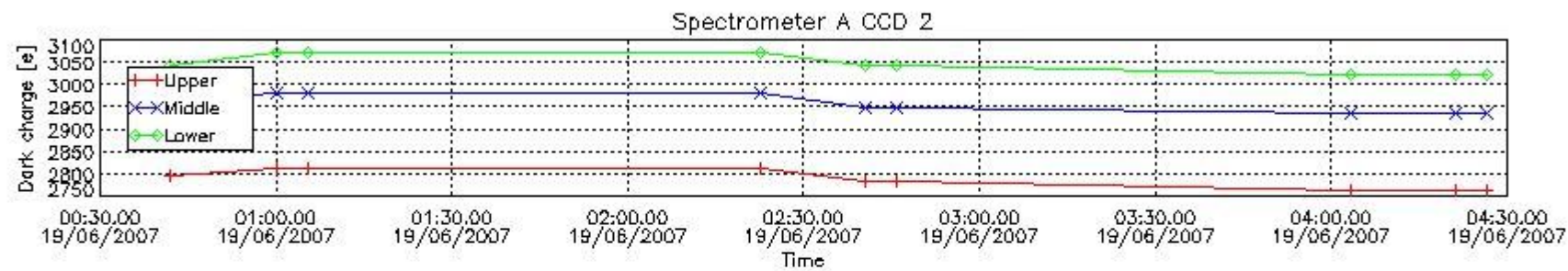
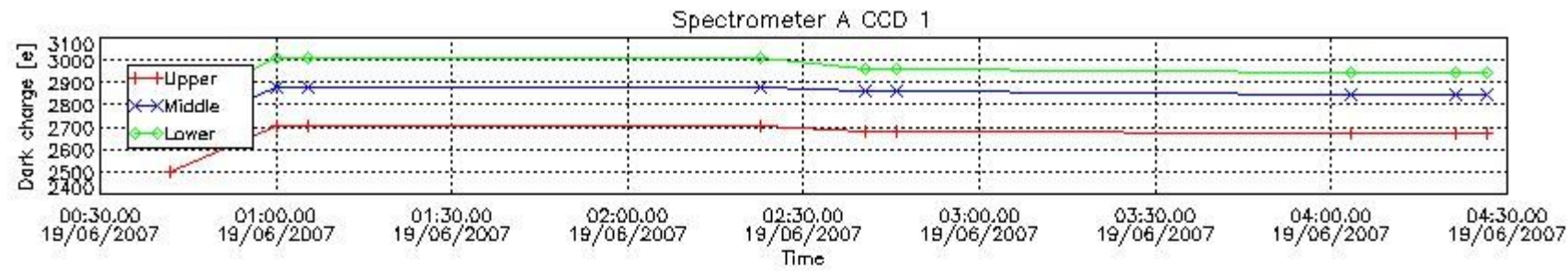
4. Overview of dark signal processing per product

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



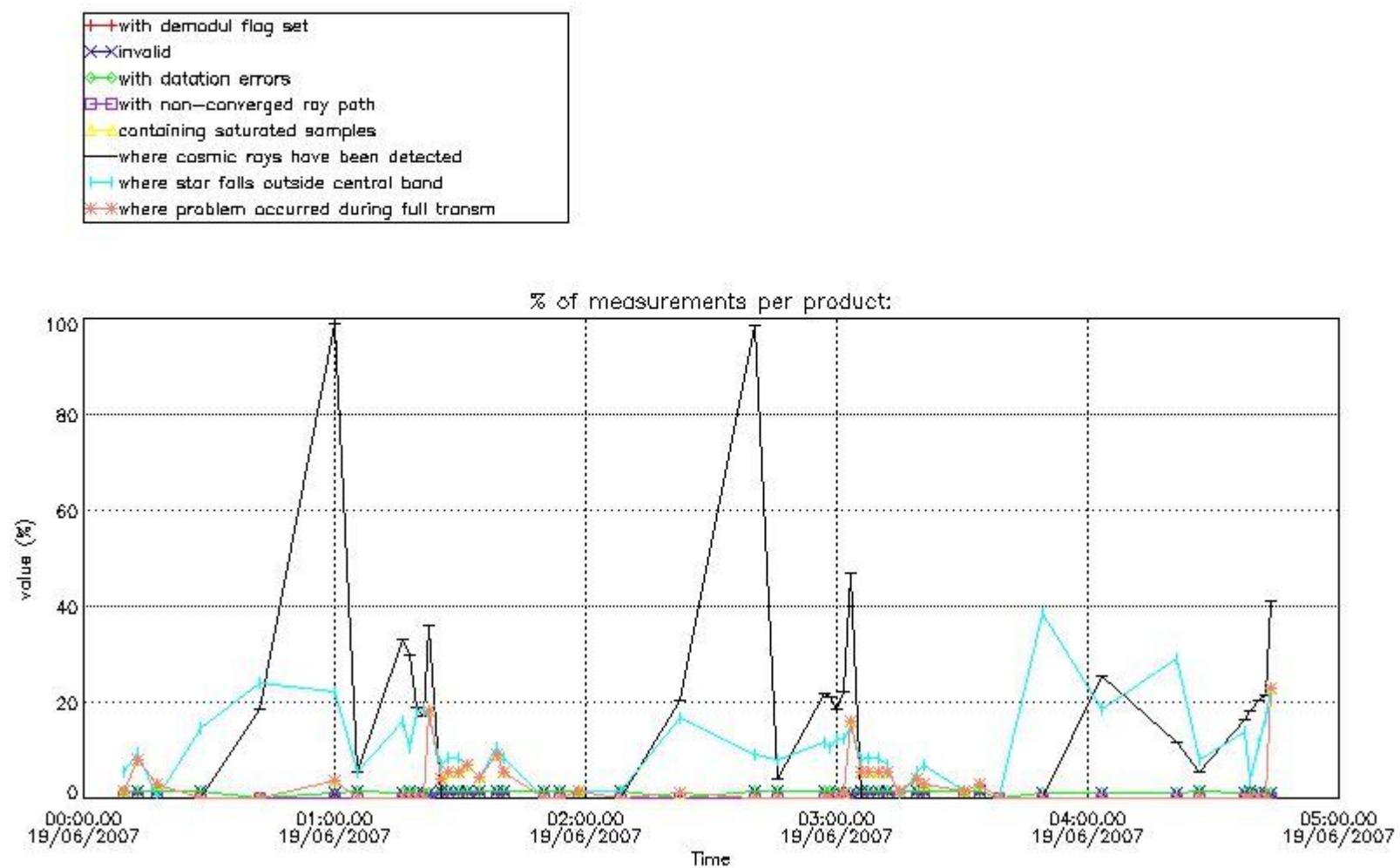
5. Demodulation flag and quality information monitoring

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.

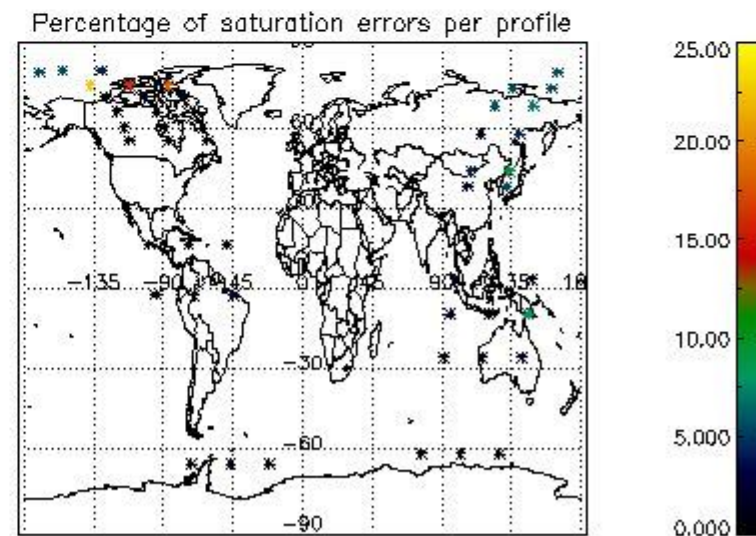
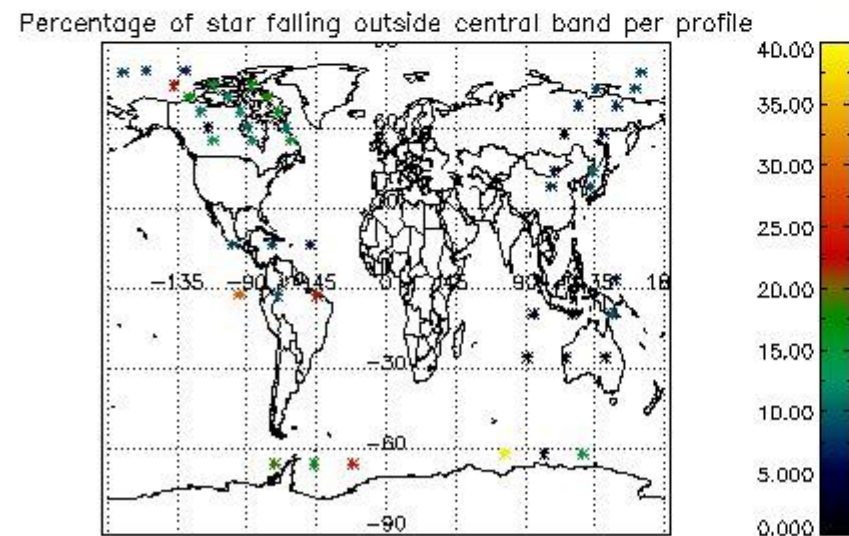
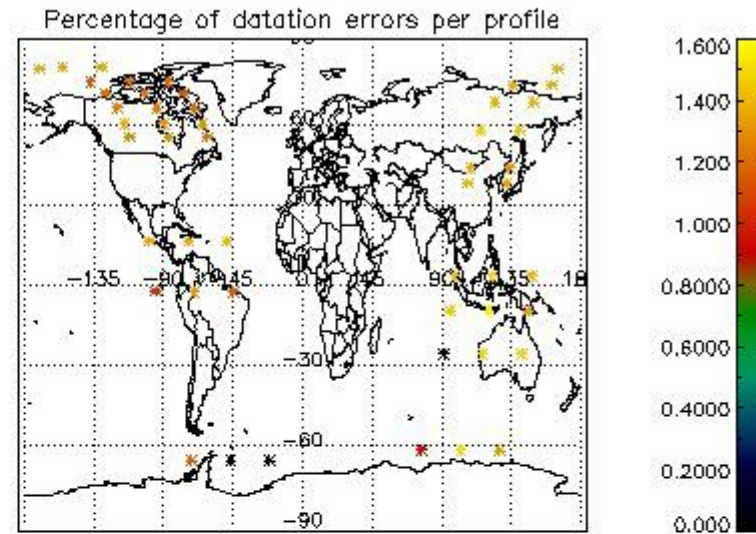
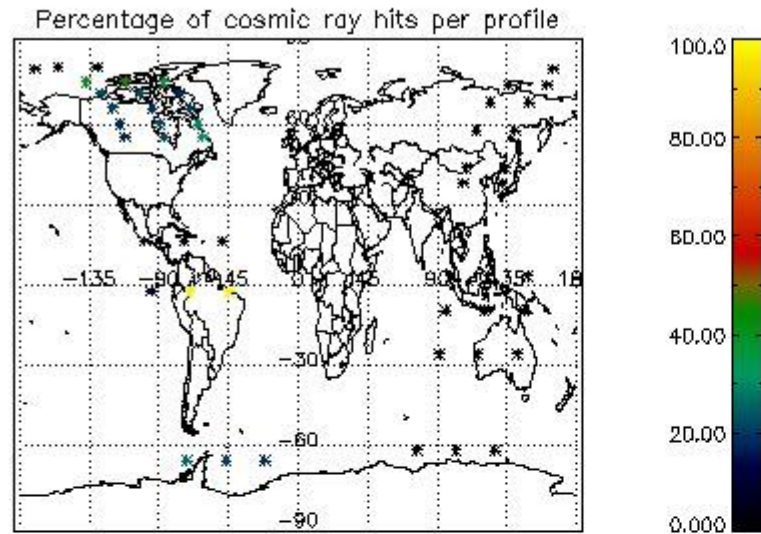
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



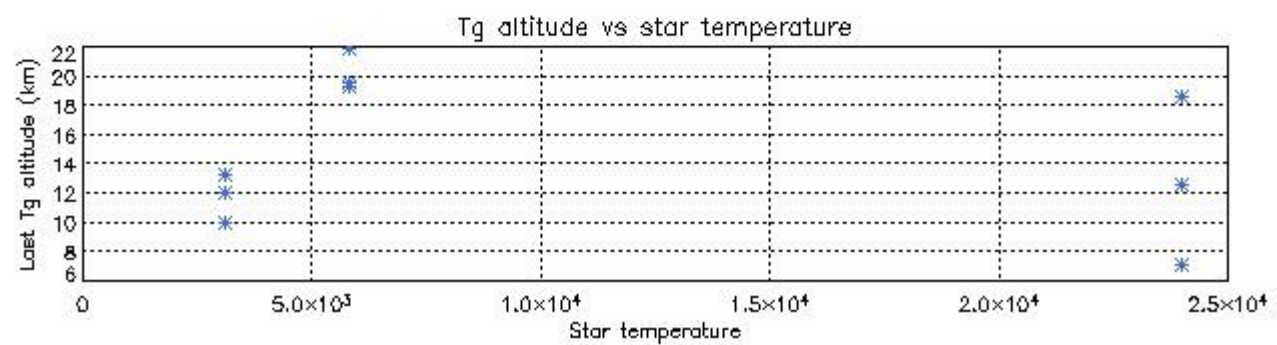
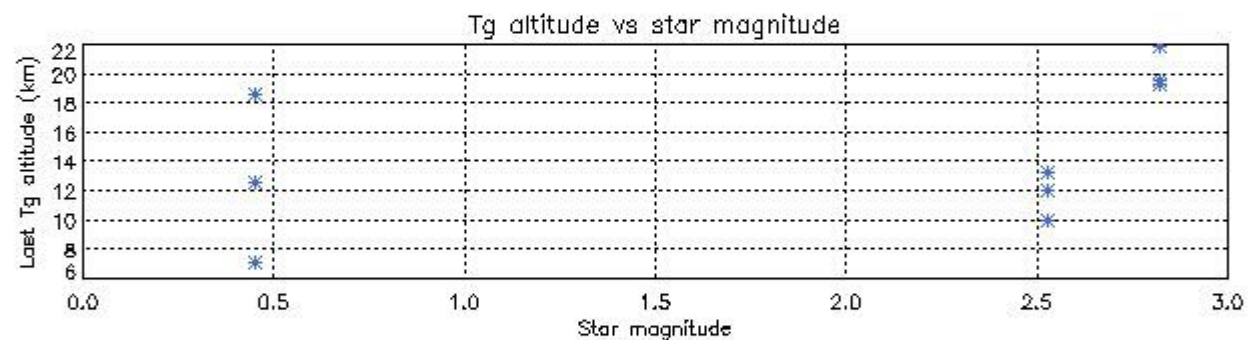
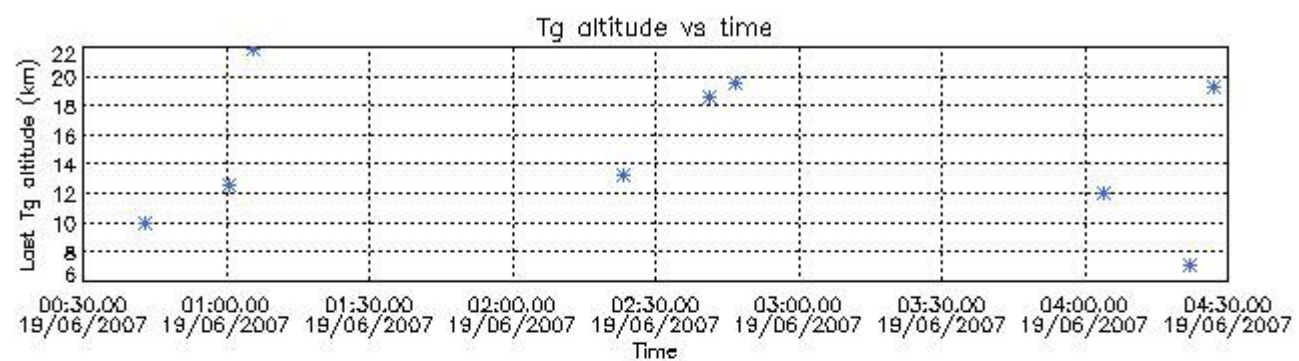
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.910	20.719	NaN
St. deviation:	5.0442	5.4678	NaN
Maximum:	21.847	30.537	NaN
Minimum:	7.0794	4.4207	NaN
Number of data:	9.0000	29.000	NaN

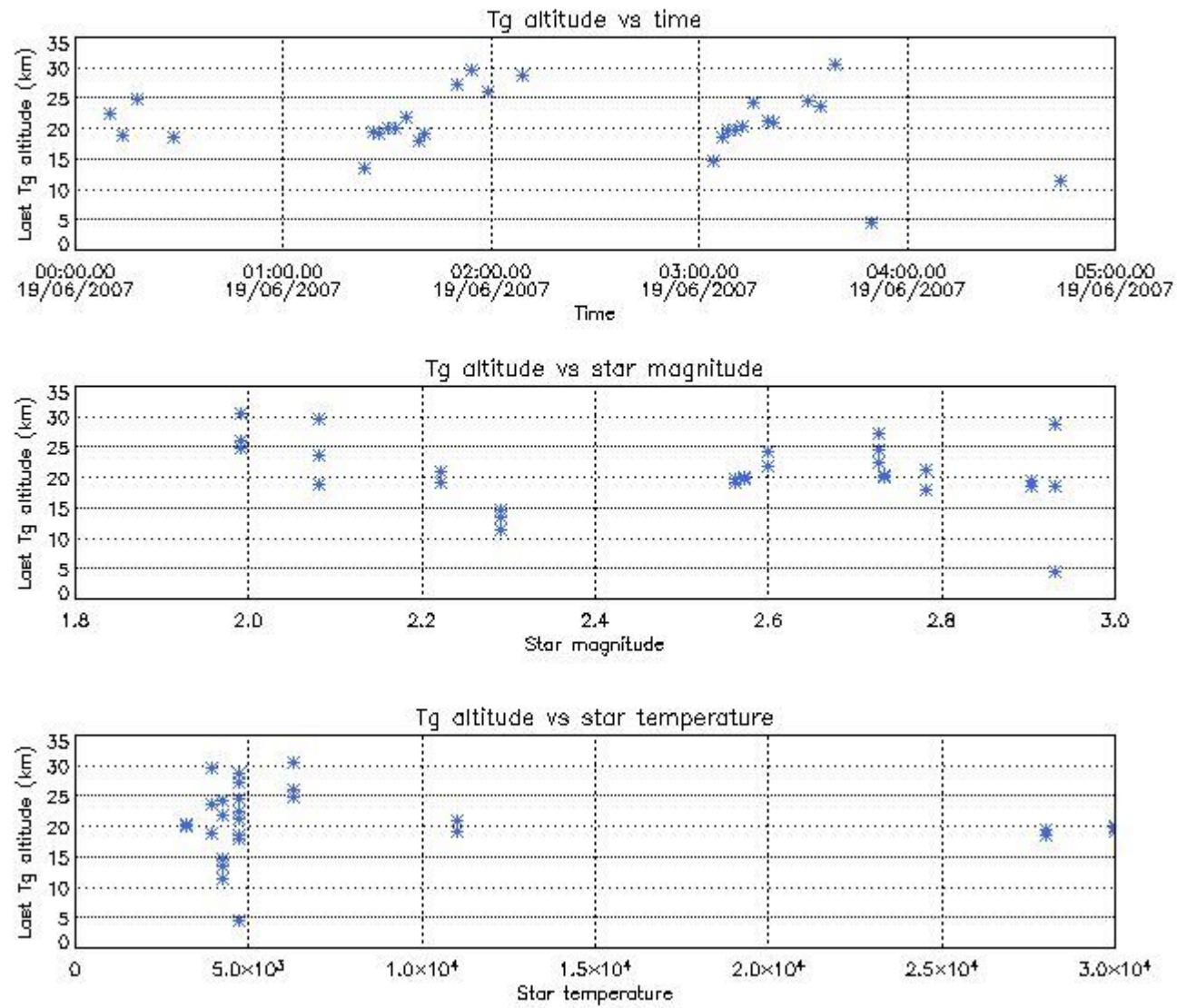
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

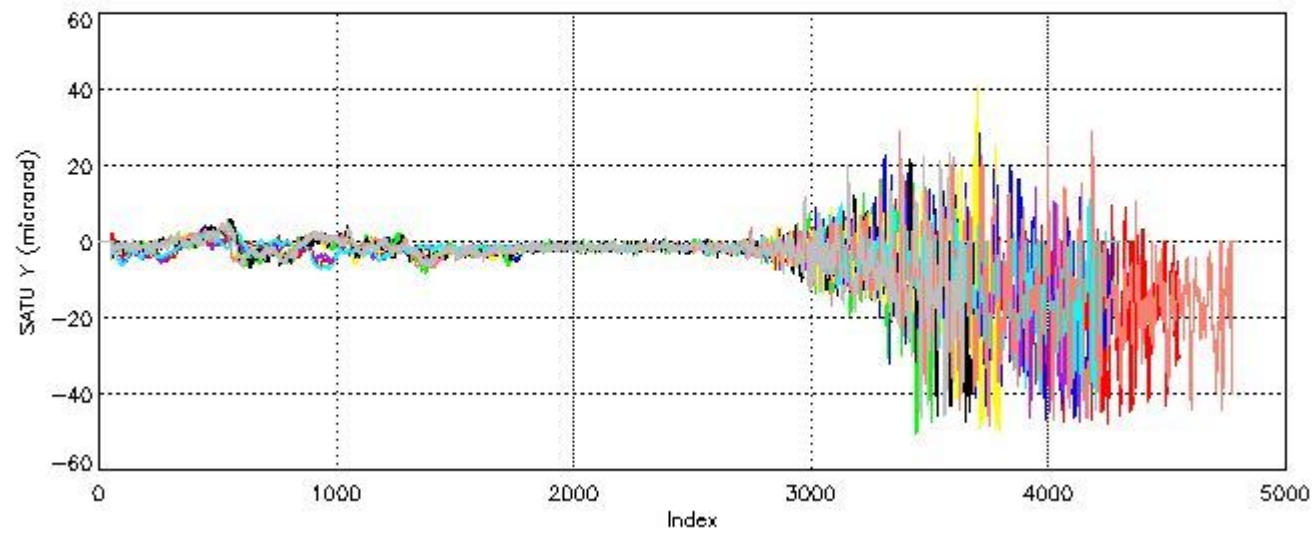
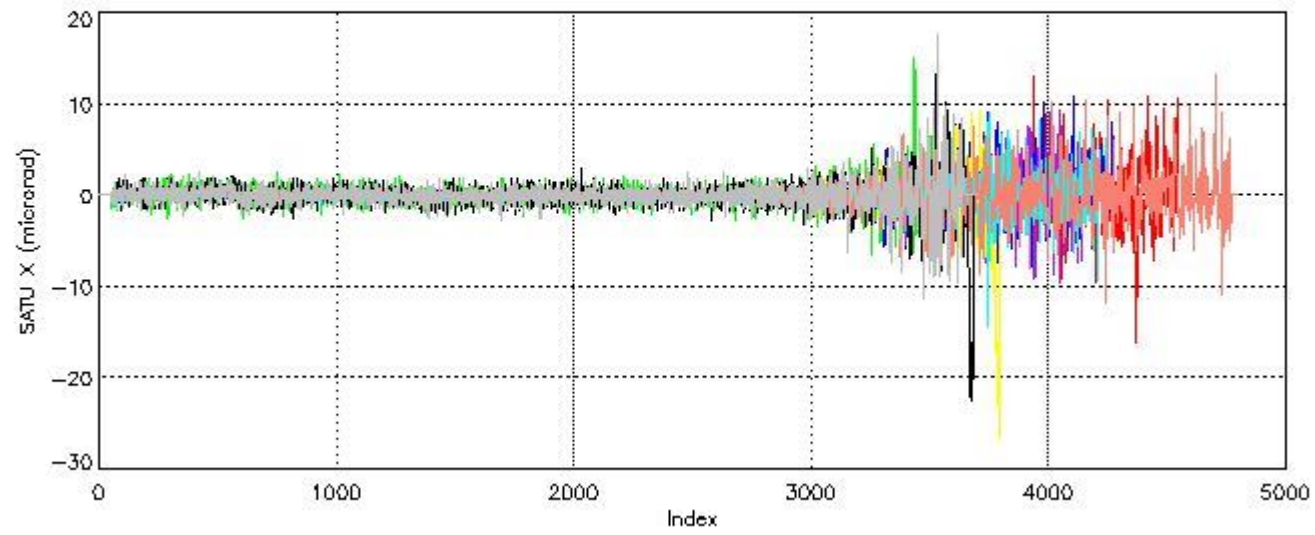


7. Star Acquisition and Tracking Unit (SATU)

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:	0.0088874	-1.1117	0.049255	-0.82797
St. deviation:	0.40235	2.0931	0.70559	2.4299
Maximum:	2.4000	5.9000	4.9000	8.6000
Minimum:	-2.6000	-6.8000	-4.1000	-8.0000

Number of data:	7900.0	7900.0	24150.	24150.
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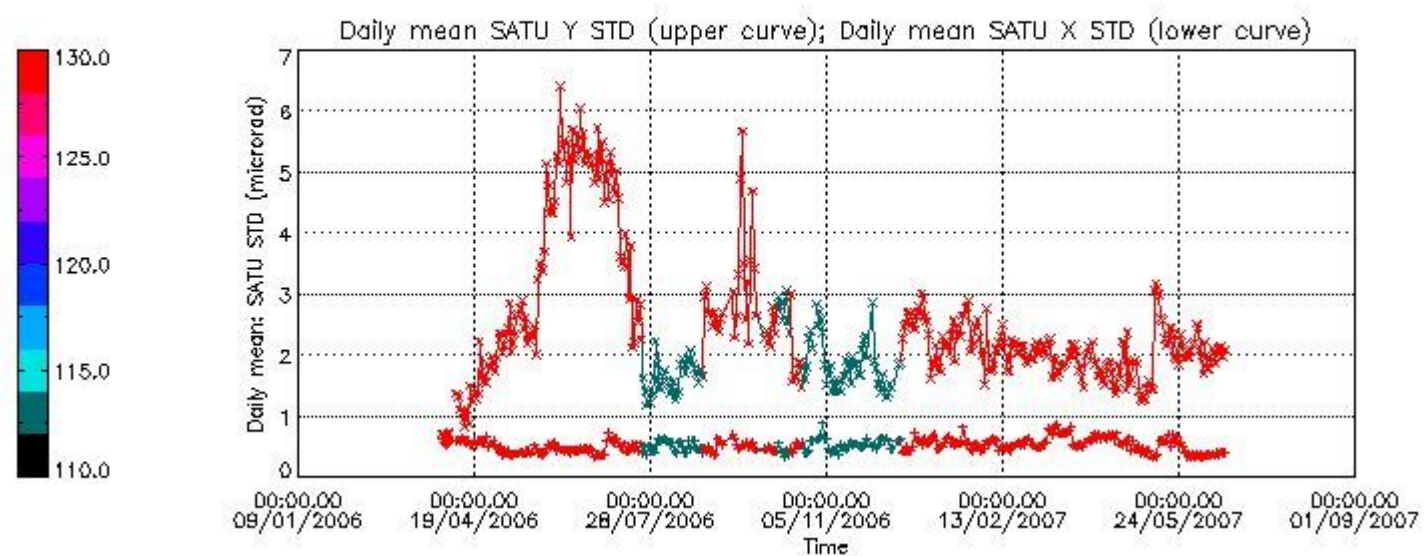
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

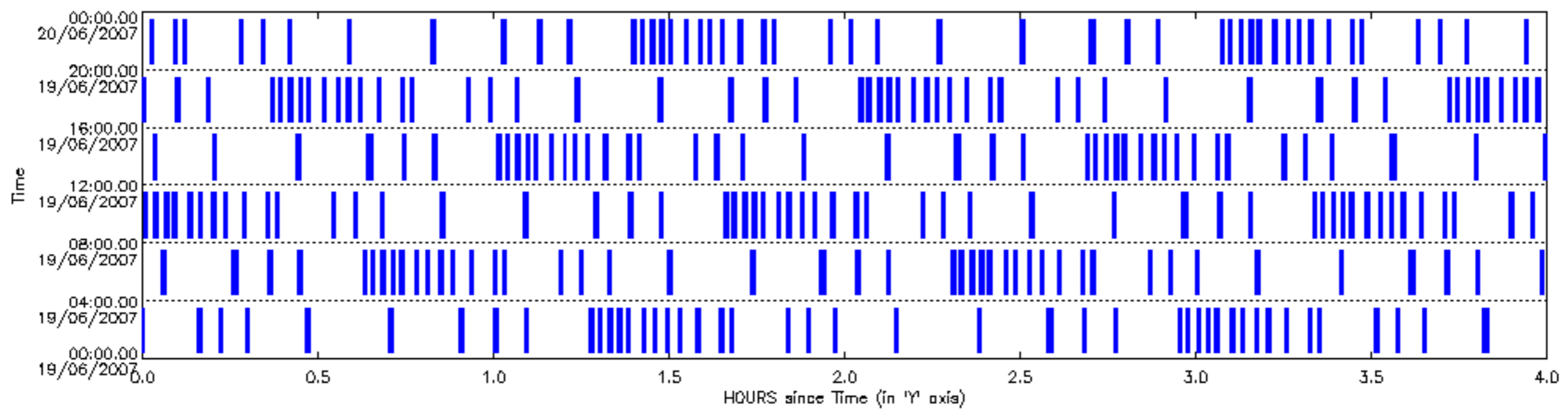
Lower curve: STD of SATU X axis

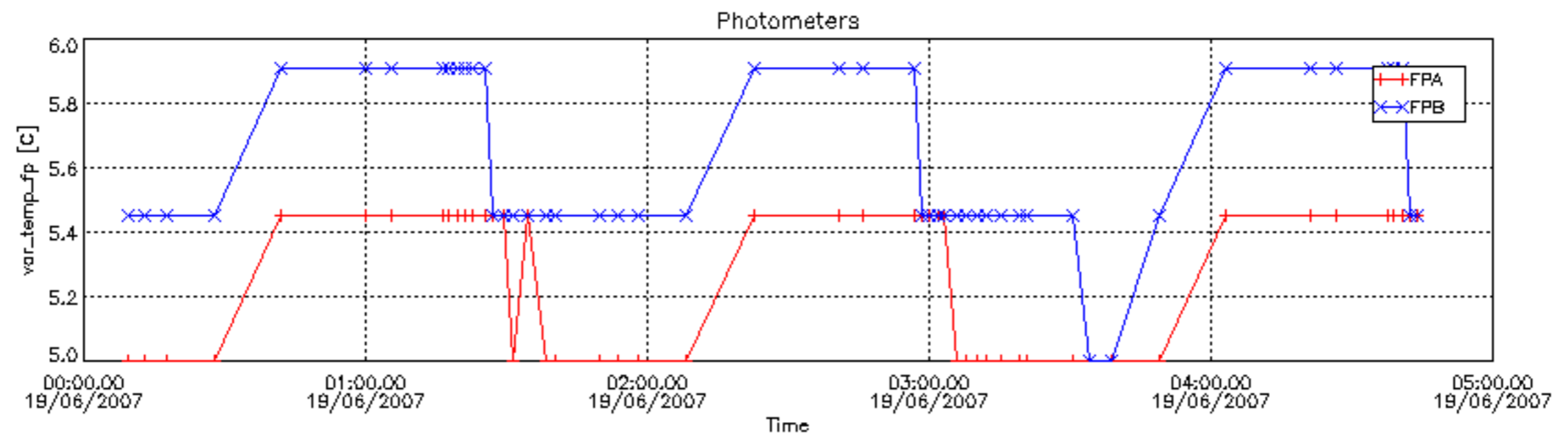
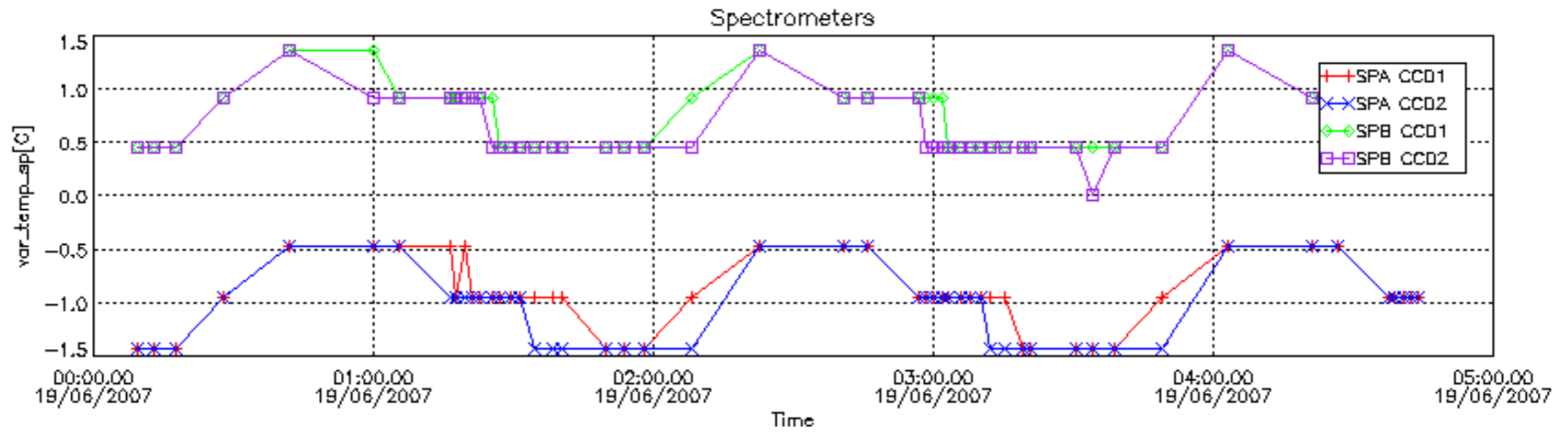


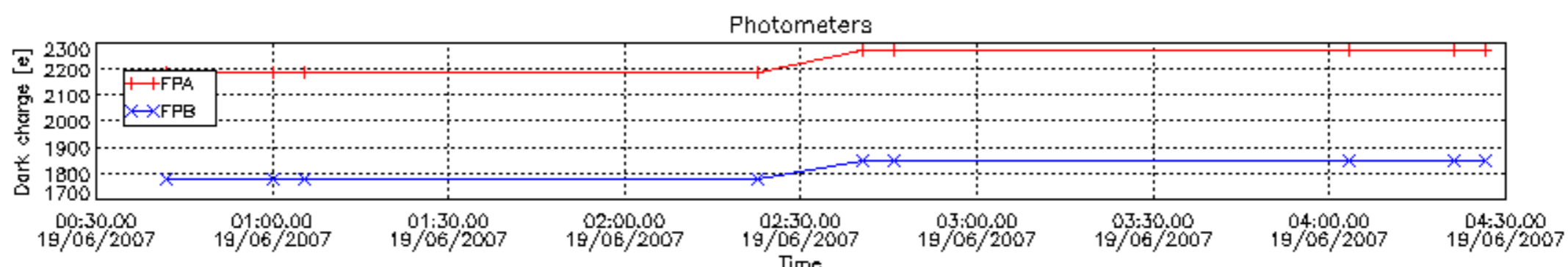
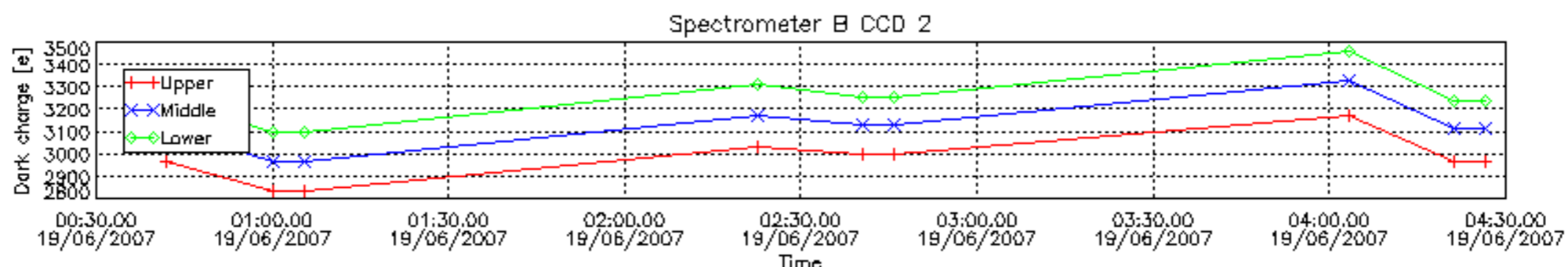
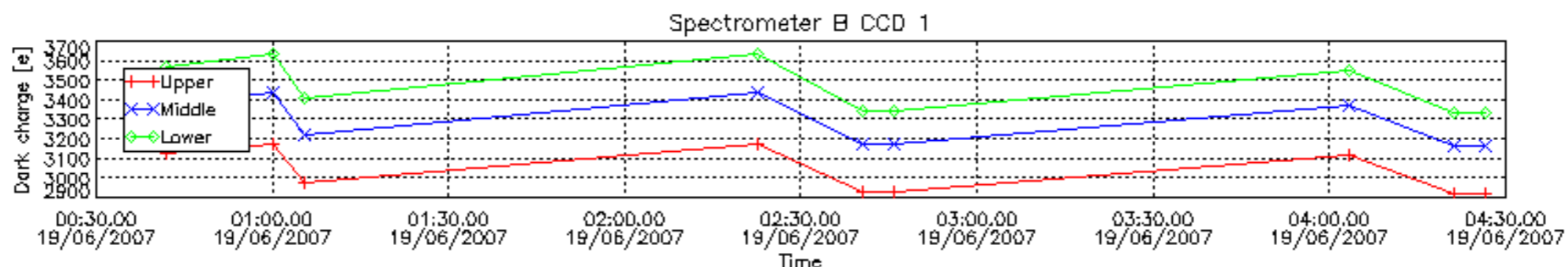
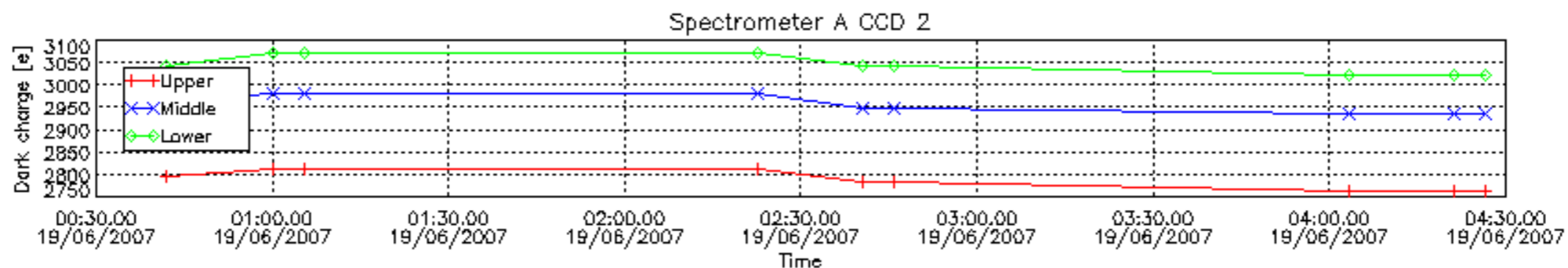
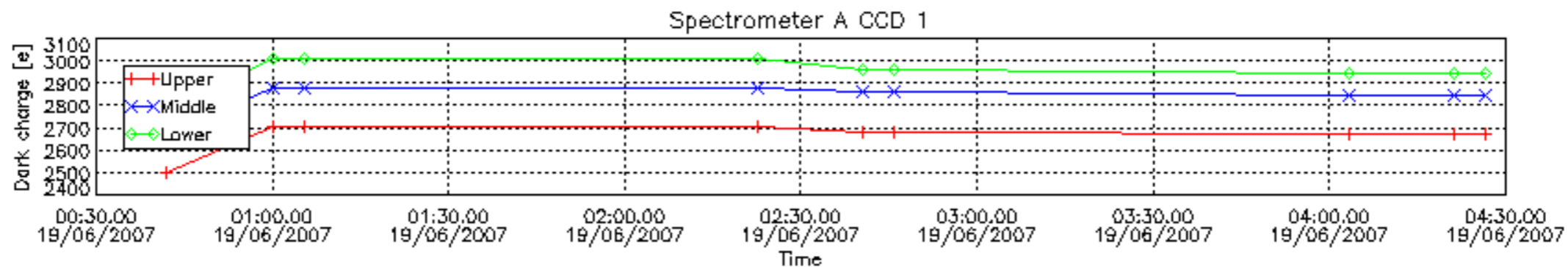
8. Auxiliary Data Files used for the production reported in section 2.4

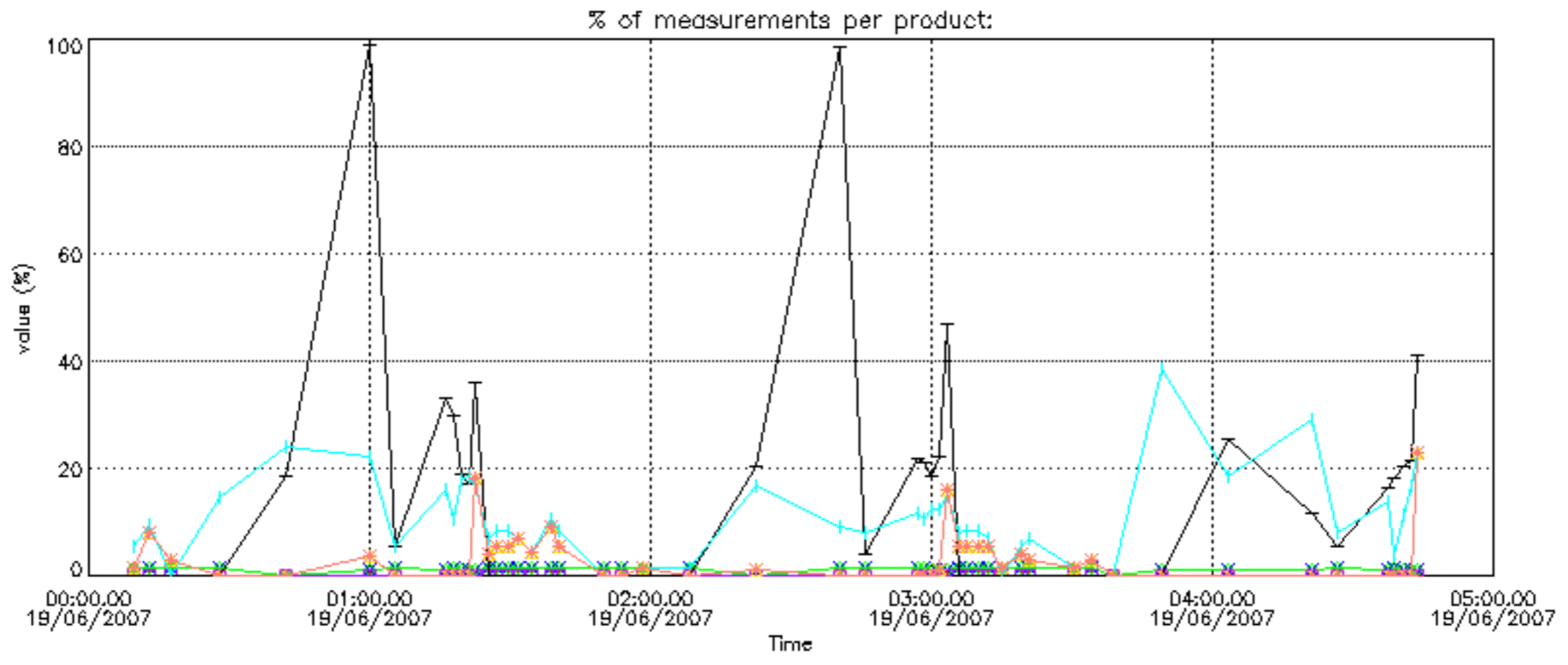
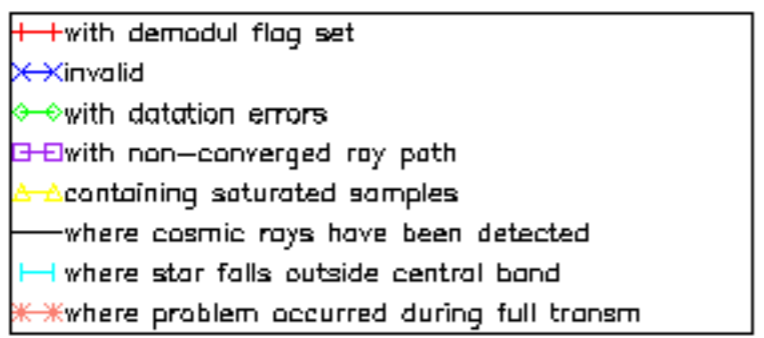
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-JUN-2007 00:09:22
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070618_075311_20070617_000000_20100101_000000	1	19-JUN-2007 00:09:22
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-JUN-2007 00:09:22
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-JUN-2007 00:09:22
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-JUN-2007 00:09:22
ECMWF_FILE	AUX_ECF_AXNECM20070618_062109_20070618_210000_20070619_090000	1	19-JUN-2007 00:09:22
ECMWF_FILE	AUX_ECF_AXNECM20070618_182329_20070619_030000_20070619_150000	42	19-JUN-2007 03:49:01
OPTIONAL_ECMWF_FILE	MISSING	1	19-JUN-2007 00:09:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070618_230317_000057382059_00101_27710_3603.N1	1	19-JUN-2007 00:09:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070619_004414_000054192059_00102_27711_3604.N1	6	19-JUN-2007 01:00:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070619_021952_000044632059_00103_27712_3605.N1	42	19-JUN-2007 03:49:01

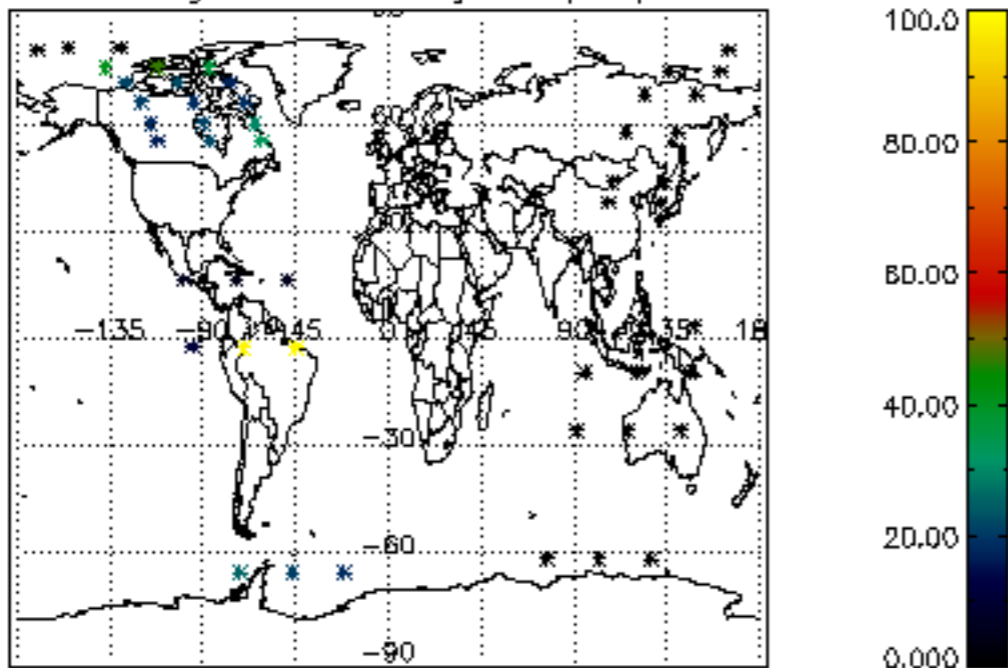




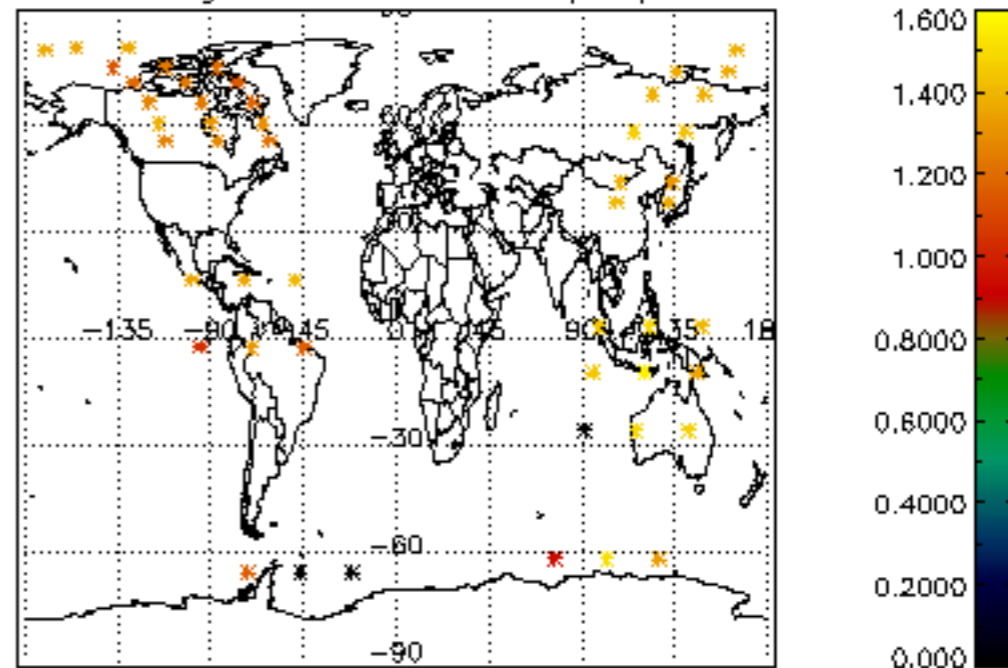




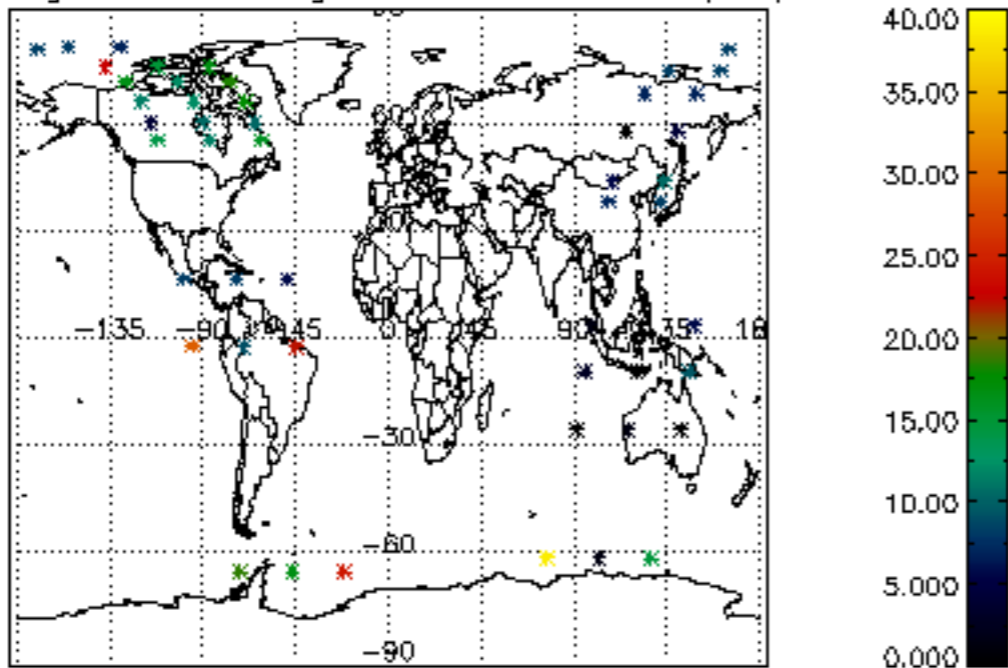
Percentage of cosmic ray hits per profile



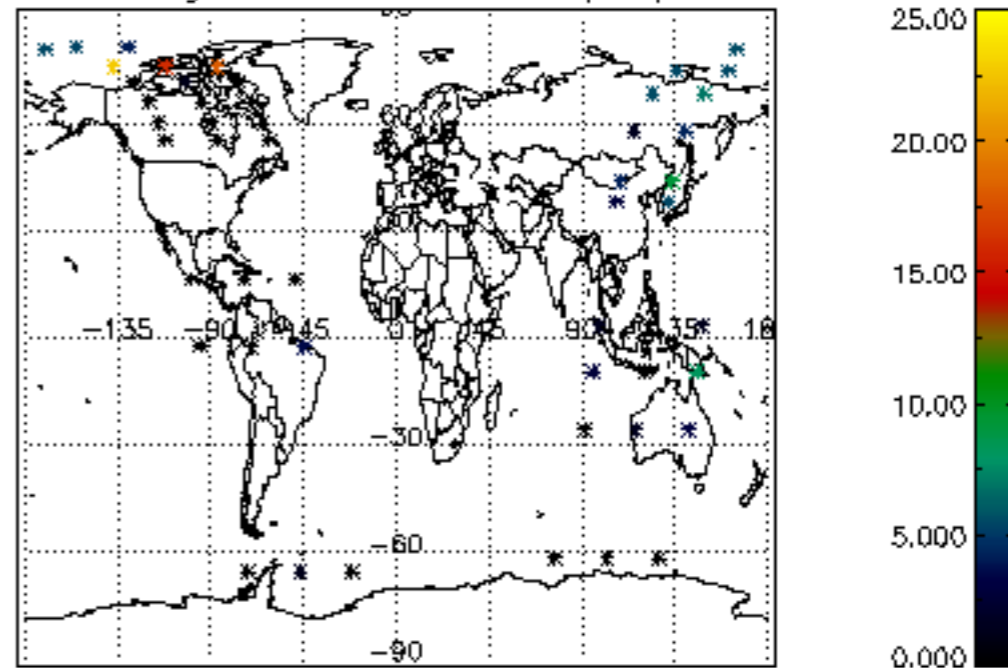
Percentage of datation errors per profile



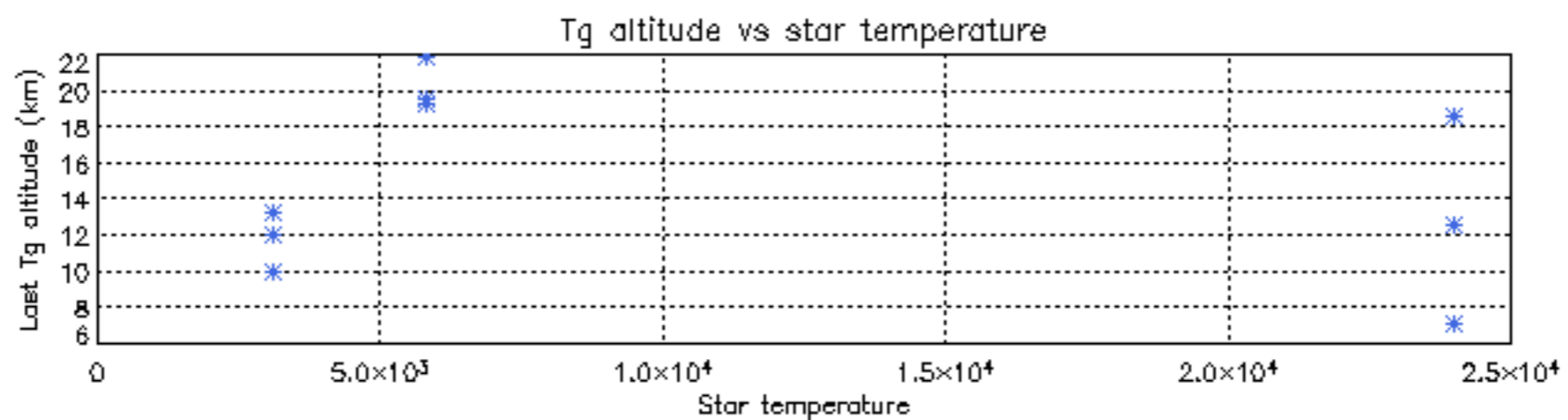
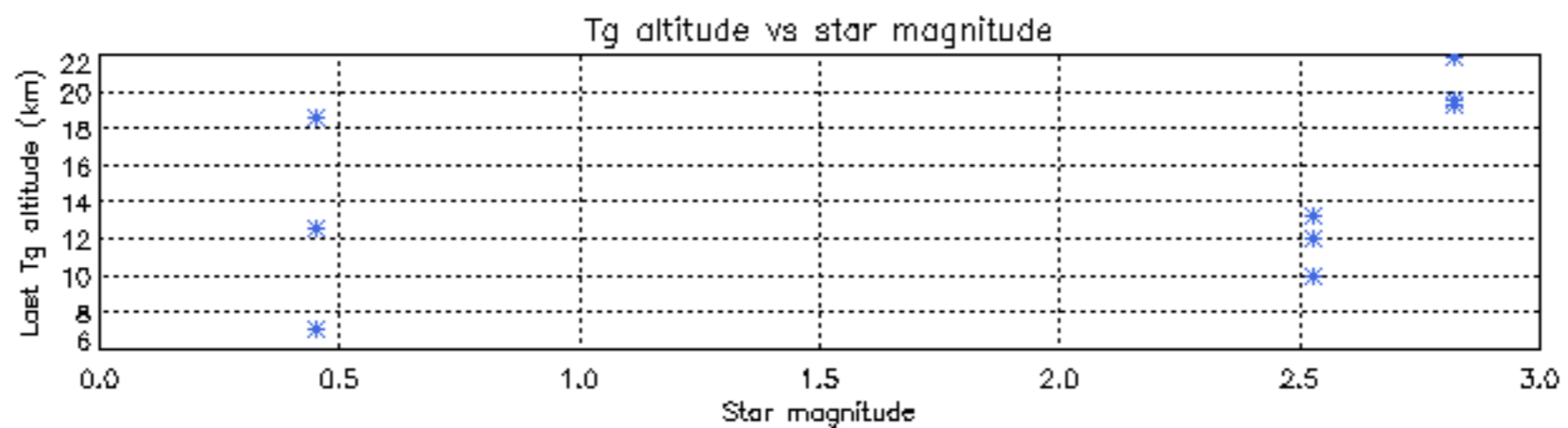
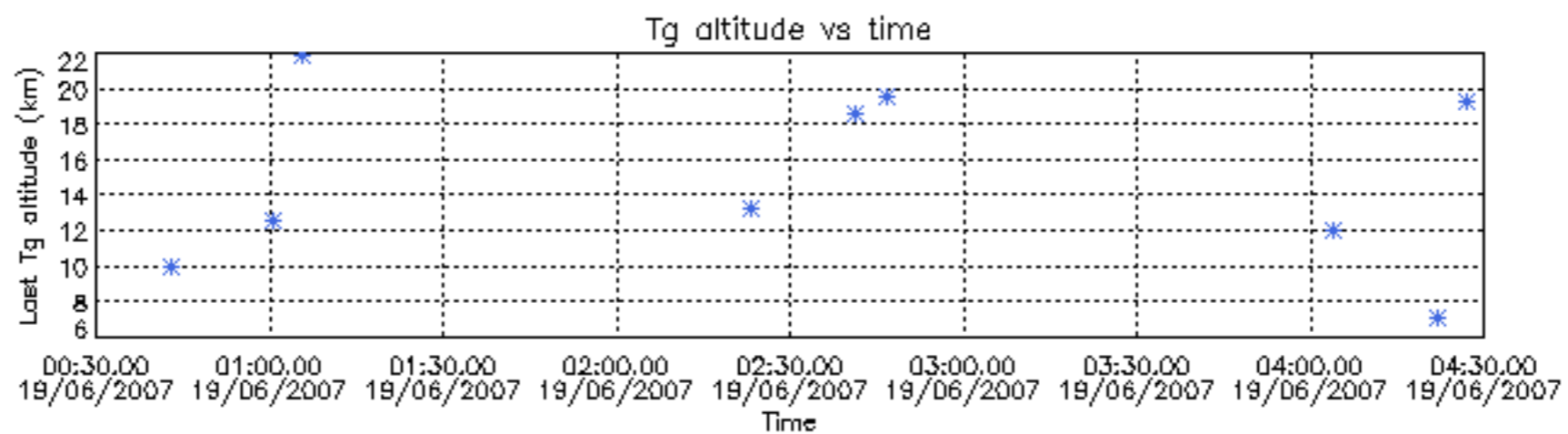
Percentage of star falling outside central band per profile



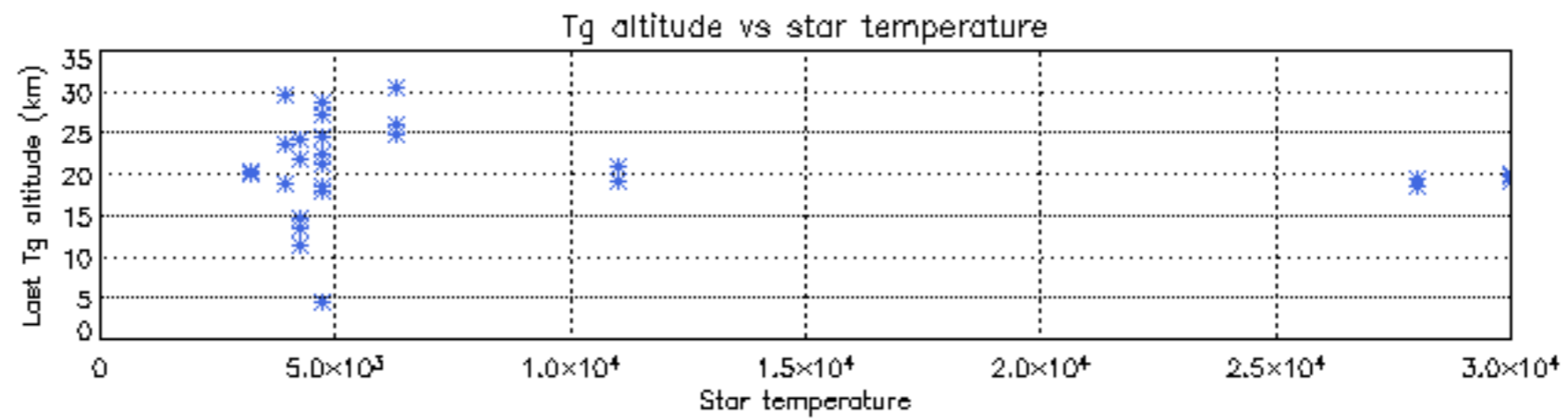
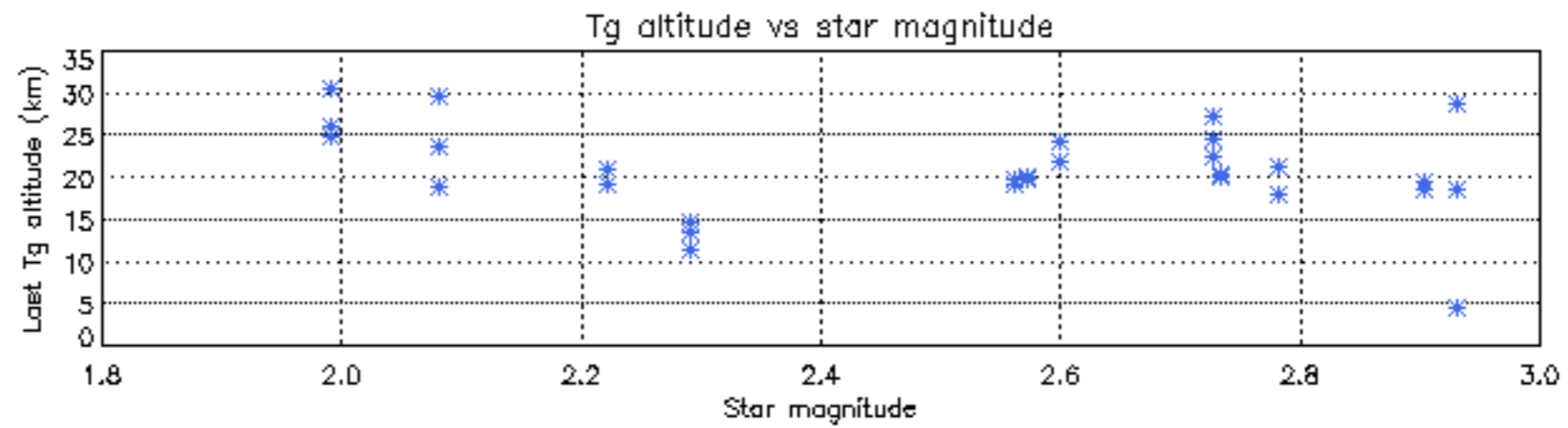
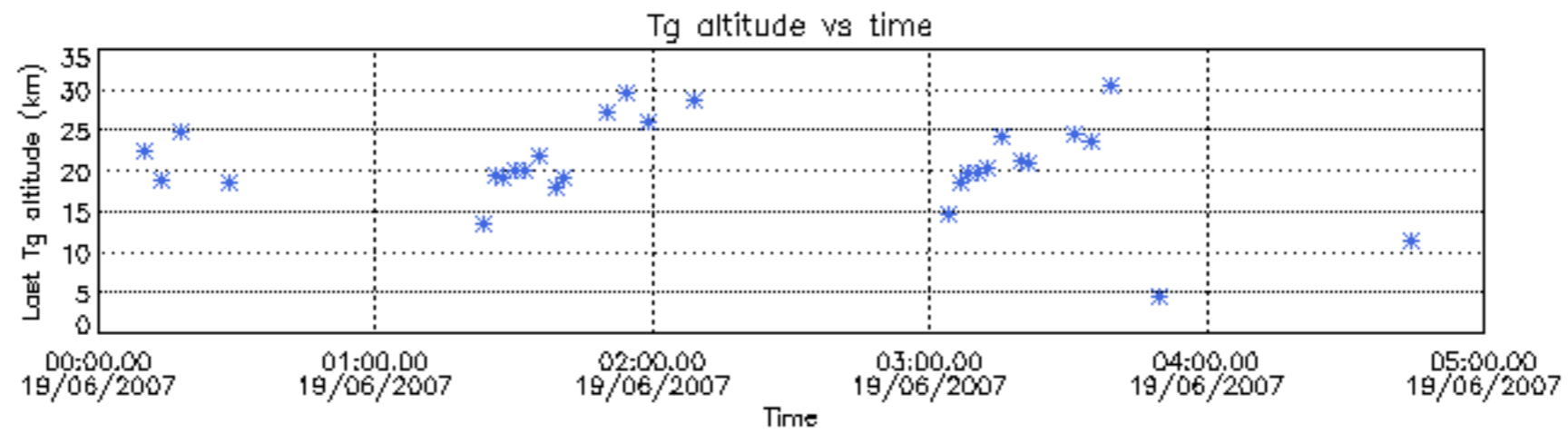
Percentage of saturation errors per profile

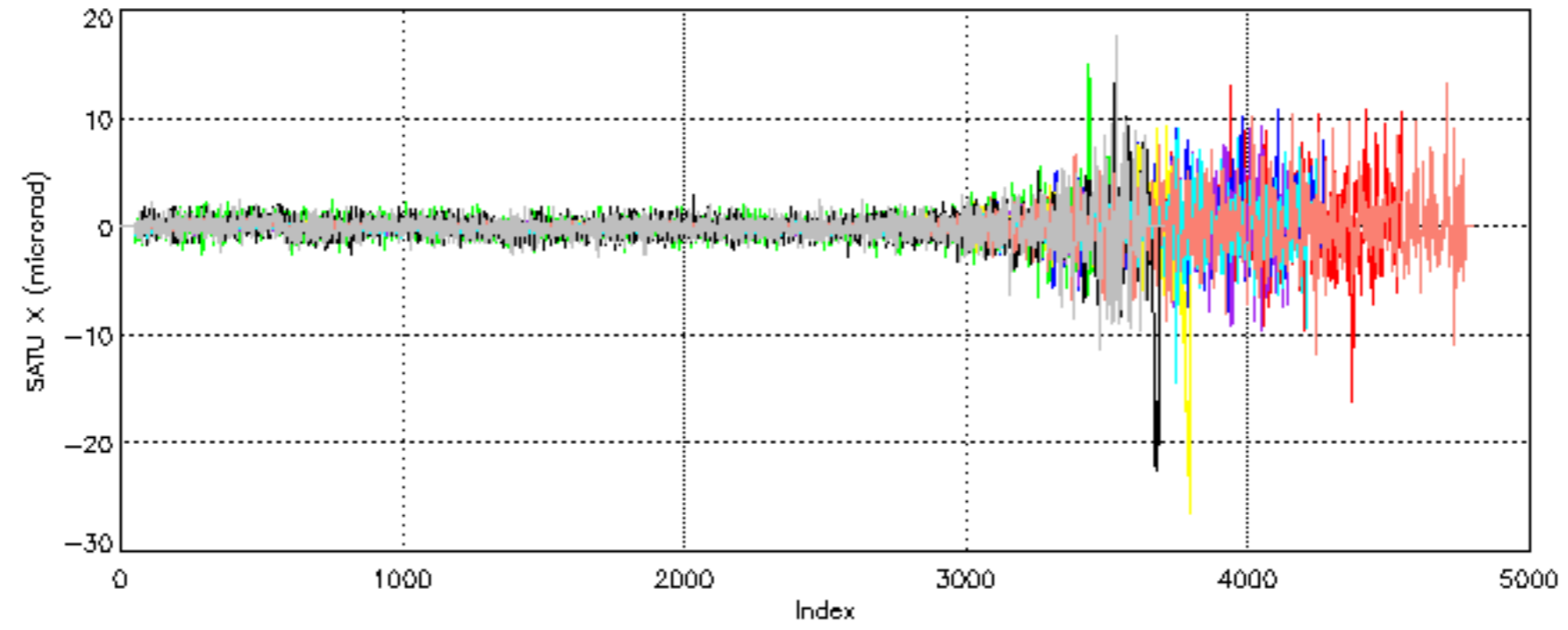


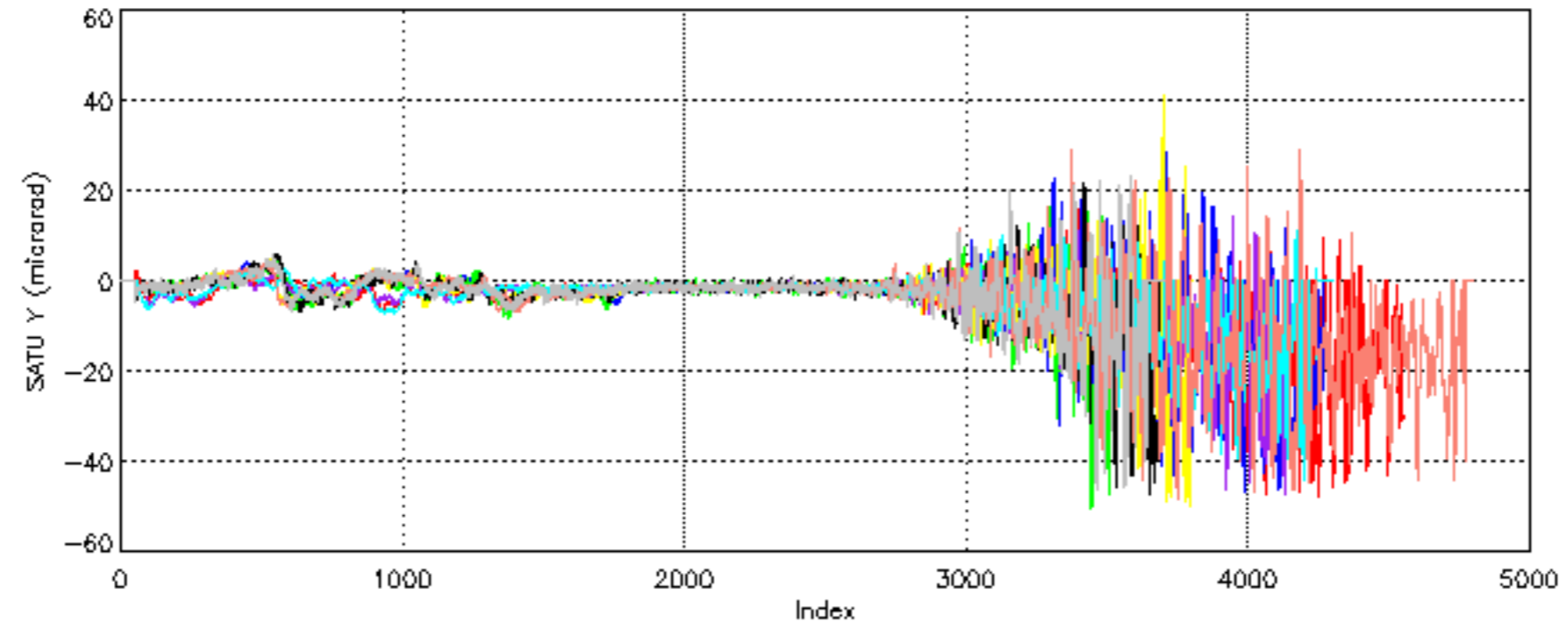
Tangent altitude at which the star is lost

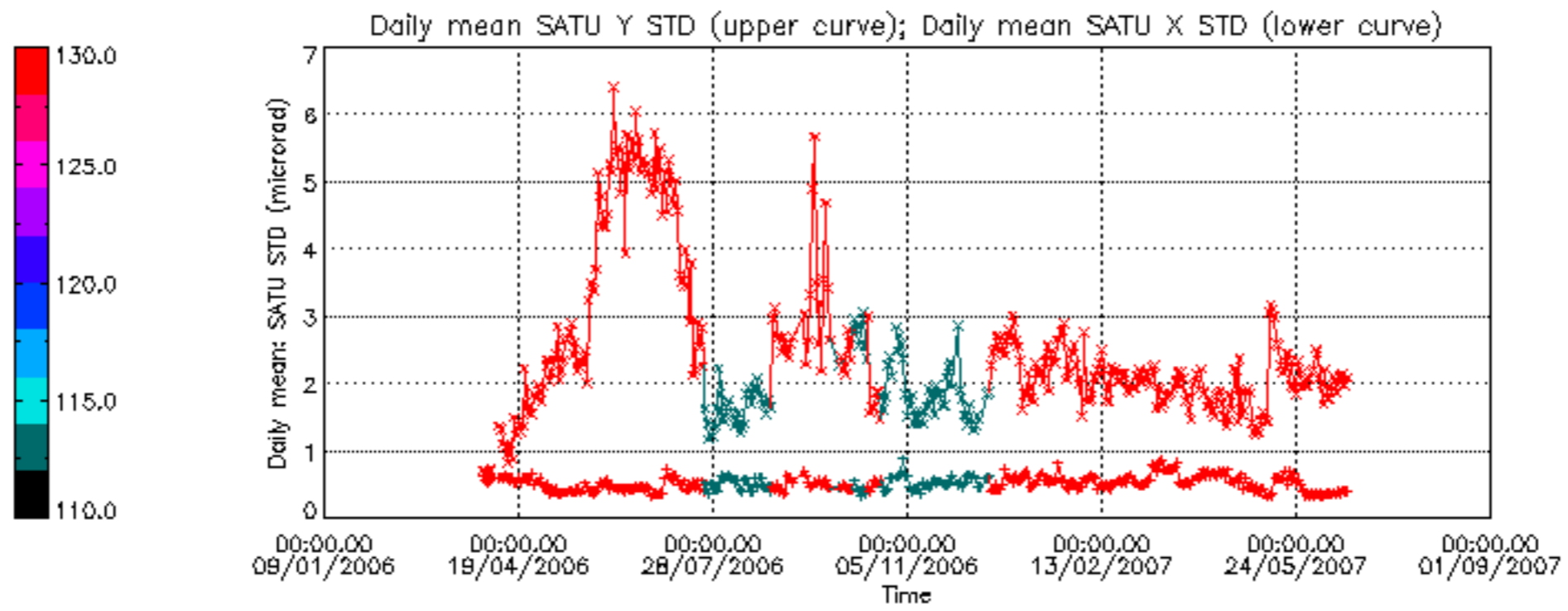


Tangent altitude at which the star is lost









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

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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070601_015600_000041292058_00346_27454_3814.N1

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

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

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

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1; 879.2; 01-JUN-2007 20:48:02; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 34;27466
 2; 937.5; 01-JUN-2007 20:49:00; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27466
 3; 1038.8; 01-JUN-2007 20:50:41; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;27466
 4; 1146.7; 01-JUN-2007 20:52:29; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27466
 5; 1252.4; 01-JUN-2007 20:54:15; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27466
 6; 1374.4; 01-JUN-2007 20:56:17; Dark ; 39.0; 136; 23Tau Sco ; 2.82; 30000;occ; 78; 0;27466
 7; 1545.0; 01-JUN-2007 20:59:08; Bright; 38.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 76; 0;27466
 8; 1703.0; 01-JUN-2007 21:01:46; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27466
 9; 1834.0; 01-JUN-2007 21:03:57; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27466
 10; 2014.7; 01-JUN-2007 21:06:57; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27466
 11; 2368.6; 01-JUN-2007 21:12:51; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;27466
 12; 3003.4; 01-JUN-2007 21:23:26; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27466
 13; 3165.9; 01-JUN-2007 21:26:08; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27466
 14; 3446.7; 01-JUN-2007 21:30:49; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27466
 15; 3928.7; 01-JUN-2007 21:38:51; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27466
 16; 4394.9; 01-JUN-2007 21:46:38; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;27466

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 2; -381.8; 01-JUN-2007 22:07:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27466
 3; -238.3; 01-JUN-2007 22:10:00; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;27466
 4; 82.9; 01-JUN-2007 22:15:21; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;27467
 5; 195.8; 01-JUN-2007 22:17:14; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27467
 6; 492.7; 01-JUN-2007 22:22:11; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27467
 7; 862.6; 01-JUN-2007 22:28:21; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27467
 8; 937.9; 01-JUN-2007 22:29:36; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27467
 9; 1039.3; 01-JUN-2007 22:31:18; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27467
 10; 1147.1; 01-JUN-2007 22:33:06; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;27467
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2; 1707.2; 07-JUN-2007 12:50:20; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;27547
3; 1835.2; 07-JUN-2007 12:52:28; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;27547
4; 2015.5; 07-JUN-2007 12:55:28; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27547
5; 2296.7; 07-JUN-2007 13:00:09; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27547
6; 2492.0; 07-JUN-2007 13:03:25; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27547
7; 2982.9; 07-JUN-2007 13:11:36; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;27547
8; 3165.2; 07-JUN-2007 13:14:38; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27547
9; 3446.8; 07-JUN-2007 13:19:20; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27547
10; 3919.0; 07-JUN-2007 13:27:12; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;27547
11; 4263.7; 07-JUN-2007 13:32:56; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;27547
12; 4402.2; 07-JUN-2007 13:35:15; Dark ; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;27547
13; 4650.9; 07-JUN-2007 13:39:24; Dark ; 41.0; 105; 6Bet Ari ; 2.64; 8900;occ; 82; 0;27547
14; 5451.8; 07-JUN-2007 13:52:45; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;27547
15; 5694.3; 07-JUN-2007 13:56:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27547
16; 5846.3; 07-JUN-2007 13:59:19; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27547
17; 6190.7; 07-JUN-2007 14:05:03; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27547
18; 6309.3; 07-JUN-2007 14:07:02; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;27547
19; 6583.2; 07-JUN-2007 14:11:36; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27547
20; 6927.1; 07-JUN-2007 14:17:20; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27547
21; 7005.5; 07-JUN-2007 14:18:38; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27547
22; 7108.6; 07-JUN-2007 14:20:21; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27547
23; 7214.3; 07-JUN-2007 14:22:07; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;27547
24; 7311.5; 07-JUN-2007 14:23:44; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27547
25; 7464.5; 07-JUN-2007 14:26:17; Bright; 45.0; 16; 21Alp Sco ; 1.02; 3000;occ; 90; 0;27547

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3; 1599.9; 07-JUN-2007 14:29:08; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;27548
4; 1707.3; 07-JUN-2007 14:30:56; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;27548
5; 1835.3; 07-JUN-2007 14:33:04; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27548
6; 2015.5; 07-JUN-2007 14:36:04; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27548
7; 2296.5; 07-JUN-2007 14:40:45; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;27548
8; 2491.6; 07-JUN-2007 14:44:00; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;27548
9; 2982.8; 07-JUN-2007 14:52:11; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;27548
10; 3165.4; 07-JUN-2007 14:55:14; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27548
11; 3446.9; 07-JUN-2007 14:59:55; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27548
12; 3919.0; 07-JUN-2007 15:07:48; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27548
13; 4263.8; 07-JUN-2007 15:13:32; Bright; 53.5; 73; 57Gam1And ; 2.26; 13100;occ; 107; 0;27548
14; 4402.4; 07-JUN-2007 15:15:51; Dark ; 53.5; 53; 43Bet And ; 2.05; 3300;occ; 107; 0;27548
15; 4651.1; 07-JUN-2007 15:20:00; Dark ; 39.5; 105; 6Bet Ari ; 2.64; 8900;occ; 79; 0;27548
16; 5452.7; 07-JUN-2007 15:33:21; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;27548
17; 5694.9; 07-JUN-2007 15:37:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27548
18; 5847.0; 07-JUN-2007 15:39:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;27548
19; 6191.7; 07-JUN-2007 15:45:40; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27548

20; 6310.4; 07-JUN-2007 15:47:39; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;27548
 21; 6584.0; 07-JUN-2007 15:52:13; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27548
 22; 6927.4; 07-JUN-2007 15:57:56; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27548
 23; 7005.8; 07-JUN-2007 15:59:14; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27548
 24; 7109.0; 07-JUN-2007 16:00:58; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;27548
 25; 7214.7; 07-JUN-2007 16:02:43; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27548
 26; 7311.7; 07-JUN-2007 16:04:20; Dark ; 17.0; 75; 26Eps Sco ; 2.29; 4250;occ; 34; 0;27548

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 3; 1513.1; 07-JUN-2007 16:08:18; Bright; 37.5; 80; 7Del Sco ; 2.32; 30000;occ; 75; 0;27549
 4; 1599.9; 07-JUN-2007 16:09:45; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;27549
 5; 1707.5; 07-JUN-2007 16:11:32; Bright; 38.5; 98; 13Zet Oph ; 2.57; 30000;occ; 77; 0;27549
 6; 1835.4; 07-JUN-2007 16:13:40; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27549
 7; 2015.5; 07-JUN-2007 16:16:40; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27549
 8; 2296.3; 07-JUN-2007 16:21:21; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;27549
 9; 2491.3; 07-JUN-2007 16:24:36; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;27549
 10; 2982.5; 07-JUN-2007 16:32:47; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;27549
 11; 3165.4; 07-JUN-2007 16:35:50; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27549
 12; 3446.8; 07-JUN-2007 16:40:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27549
 13; 3918.9; 07-JUN-2007 16:48:24; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27549
 14; 4263.8; 07-JUN-2007 16:54:08; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;27549
 15; 4402.6; 07-JUN-2007 16:56:27; Dark ; 54.0; 53; 43Bet And ; 2.05; 3300;occ; 108; 0;27549
 16; 4651.2; 07-JUN-2007 17:00:36; Dark ; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;27549
 17; 5453.4; 07-JUN-2007 17:13:58; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;27549
 18; 5695.5; 07-JUN-2007 17:18:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27549
 19; 5847.6; 07-JUN-2007 17:20:32; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;27549
 20; 6192.6; 07-JUN-2007 17:26:17; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;27549
 21; 6311.4; 07-JUN-2007 17:28:16; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27549
 22; 6584.6; 07-JUN-2007 17:32:49; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27549
 23; 6927.8; 07-JUN-2007 17:38:32; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27549
 24; 7006.2; 07-JUN-2007 17:39:51; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27549
 25; 7109.4; 07-JUN-2007 17:41:34; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27549

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 3; 1276.1; 07-JUN-2007 17:44:57; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;27550
 4; 1428.8; 07-JUN-2007 17:47:29; Bright; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;27550
 5; 1513.3; 07-JUN-2007 17:48:54; Bright; 37.5; 80; 7Del Sco ; 2.32; 30000;occ; 75; 0;27550
 6; 1600.1; 07-JUN-2007 17:50:21; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;27550
 7; 1707.5; 07-JUN-2007 17:52:08; Bright; 38.5; 98; 13Zet Oph ; 2.57; 30000;occ; 77; 0;27550
 8; 1835.4; 07-JUN-2007 17:54:16; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27550
 9; 2015.6; 07-JUN-2007 17:57:16; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27550
 10; 2296.1; 07-JUN-2007 18:01:57; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;27550
 11; 2490.9; 07-JUN-2007 18:05:12; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27550
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 13; 3165.2; 07-JUN-2007 18:16:26; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27550
 14; 3446.8; 07-JUN-2007 18:21:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27550
 15; 3918.7; 07-JUN-2007 18:28:59; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27550
 16; 4263.7; 07-JUN-2007 18:34:44; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;27550
 17; 4402.7; 07-JUN-2007 18:37:03; Dark ; 60.0; 53; 43Bet And ; 2.05; 3300;occ; 120; 0;27550
 18; 4651.4; 07-JUN-2007 18:41:12; Dark ; 43.0; 105; 6Bet Ari ; 2.64; 8900;occ; 86; 0;27550
 19; 5454.2; 07-JUN-2007 18:54:35; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;27550
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 22; 6193.5; 07-JUN-2007 19:06:54; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;27550
 23; 6312.3; 07-JUN-2007 19:08:53; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27550
 24; 6585.2; 07-JUN-2007 19:13:26; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;27550
 25; 6928.2; 07-JUN-2007 19:19:09; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;27550
 26; 7006.6; 07-JUN-2007 19:20:27; Dark ; 18.5; 147; Alp Ara ; 2.88; 26000;occ; 37; 0;27550

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 3; 1179.5; 07-JUN-2007 19:23:56; Dark ; 45.0; 25; 35Lam Sco ; 1.62; 28000;occ; 90; 0;27551
 4; 1276.3; 07-JUN-2007 19:25:33; Dark ; 42.0; 75; 26Eps Sco ; 2.29; 4250;occ; 84; 0;27551
 5; 1429.2; 07-JUN-2007 19:28:06; Bright; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;27551
 6; 1513.4; 07-JUN-2007 19:29:30; Bright; 37.5; 80; 7Del Sco ; 2.32; 30000;occ; 75; 0;27551
 7; 1600.2; 07-JUN-2007 19:30:57; Bright; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;27551

8; 1707.7; 07-JUN-2007 19:32:44; Bright; 38.5; 98; 13Zet Oph ; 2.57; 30000;occ; 77; 0;27551
 9; 1835.3; 07-JUN-2007 19:34:52; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;27551
 10; 2015.6; 07-JUN-2007 19:37:52; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;27551
 11; 2295.8; 07-JUN-2007 19:42:32; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27551
 12; 2490.5; 07-JUN-2007 19:45:47; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;27551
 13; 2982.0; 07-JUN-2007 19:53:59; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27551
 14; 3165.3; 07-JUN-2007 19:57:02; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27551
 15; 3446.7; 07-JUN-2007 20:01:43; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27551
 16; 3918.4; 07-JUN-2007 20:09:35; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27551
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 18; 4402.5; 07-JUN-2007 20:17:39; Dark ; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;27551
 19; 4651.7; 07-JUN-2007 20:21:48; Dark ; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;27551
 20; 5454.8; 07-JUN-2007 20:35:11; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;27551
 21; 5696.5; 07-JUN-2007 20:39:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27551
 22; 5848.8; 07-JUN-2007 20:41:45; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;27551
 23; 6194.3; 07-JUN-2007 20:47:31; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;27551
 24; 6313.2; 07-JUN-2007 20:49:30; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27551
 25; 6585.7; 07-JUN-2007 20:54:02; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27551
 26; 6928.3; 07-JUN-2007 20:59:45; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27551

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 3; -185.2; 08-JUN-2007 01:43:35; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;27554
 4; 161.1; 08-JUN-2007 01:49:21; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;27555
 5; 280.1; 08-JUN-2007 01:51:20; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;27555
 6; 551.8; 08-JUN-2007 01:55:52; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27555
 7; 893.4; 08-JUN-2007 02:01:34; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27555
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 9; 1075.1; 08-JUN-2007 02:04:35; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;27555
 10; 1180.8; 08-JUN-2007 02:06:21; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;27555
 11; 1277.2; 08-JUN-2007 02:07:57; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;27555
 12; 1429.8; 08-JUN-2007 02:10:30; Bright; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;27555
 13; 1514.1; 08-JUN-2007 02:11:54; Bright; 38.0; 80; 7Del Sco ; 2.32; 30000;occ; 76; 0;27555
 14; 1600.4; 08-JUN-2007 02:13:21; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;27555
 15; 1707.7; 08-JUN-2007 02:15:08; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;27555
 16; 1835.3; 08-JUN-2007 02:17:16; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;27555
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 18; 2294.7; 08-JUN-2007 02:24:55; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;27555
 19; 2489.2; 08-JUN-2007 02:28:09; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;27555
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 3; -1632.9; 08-JUN-2007 03:00:03; Dark ; 53.5; 53; 43Bet And ; 2.05; 3300;occ; 107; 0;27555
 4; -1439.9; 08-JUN-2007 03:03:16; Dark ; 44.5; 50; 13Alp Ari ; 2.01; 4250;occ; 89; 0;27555
 5; -578.1; 08-JUN-2007 03:17:38; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;27555
 6; -337.3; 08-JUN-2007 03:21:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27555
 7; -184.4; 08-JUN-2007 03:24:12; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;27555
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 13; 6628.3; 12-JUN-2007 11:34:16; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27617
 14; 7133.6; 12-JUN-2007 11:42:41; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;27617
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 16; 7319.9; 12-JUN-2007 11:45:48; Dark ; 48.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 97; 0;27617
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3; 1285.4; 12-JUN-2007 18:28:13; Dark ; 48.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 97; 0;27622
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