

GOMOS Daily Report 27-AUG-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	29AUG2007 05:32:57
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (27AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (28AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

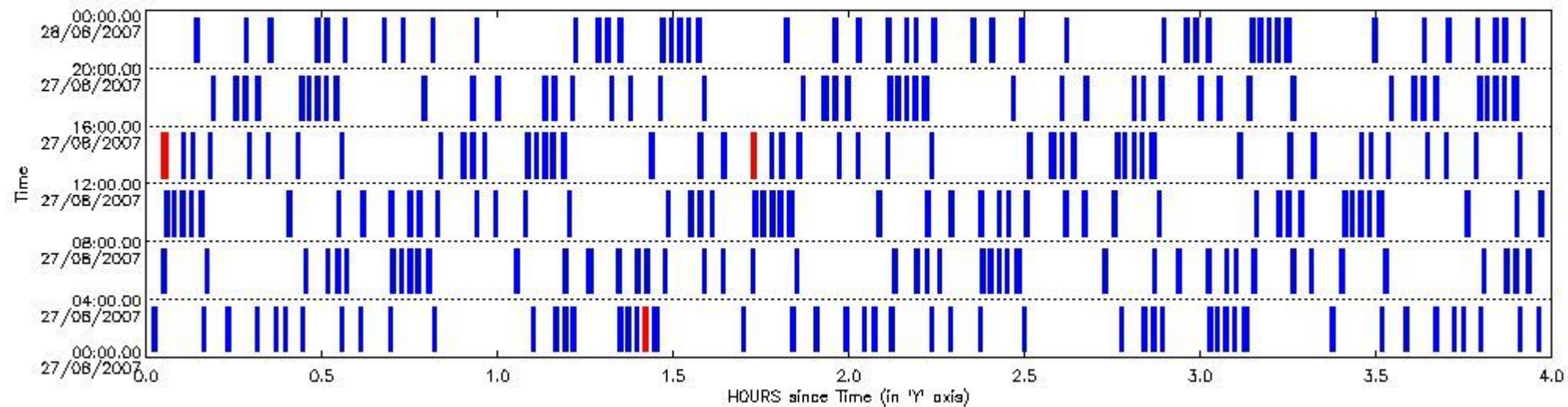
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

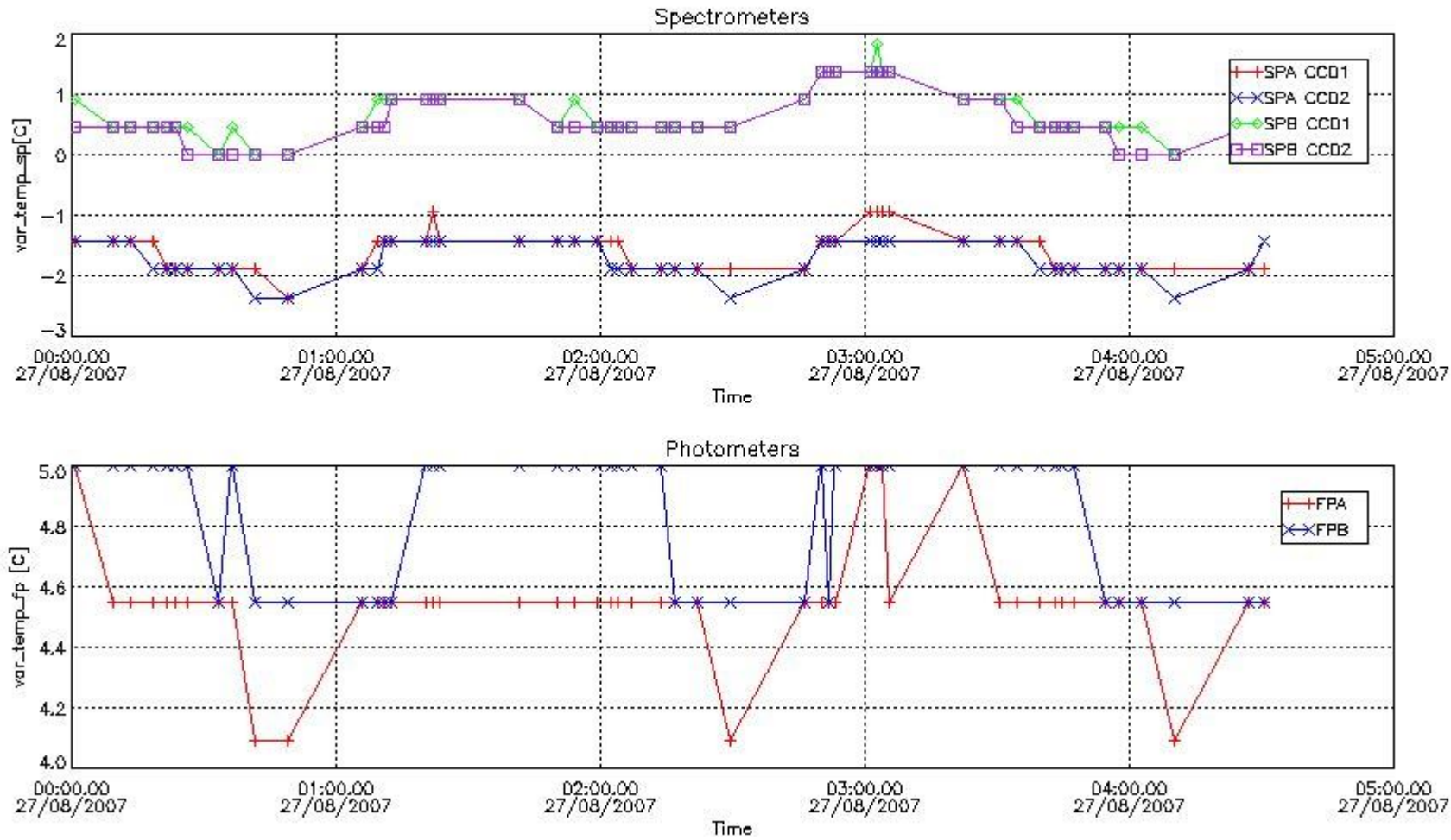
UTC start time	Star name	Star ID	Orbit
27-AUG-2007 01:24:45	1ZetCMa	177	28699
27-AUG-2007 12:02:36	49DelCap	142	28706
27-AUG-2007 13:43:12	49DelCap	142	28707

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_1PNPDE20070827_000057_000000472061_00088_28699_2589.N1	27-AUG-2007 00:00:57	Dark	47.000	9	Alp Eri	0.45300	24000.	94	28699	No
2	GOM_TRA_1PNPDE20070827_000926_000000422061_00088_28699_2590.N1	27-AUG-2007 00:09:26	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	28699	No
3	GOM_TRA_1PNPDE20070827_001328_000000492061_00088_28699_2591.N1	27-AUG-2007 00:13:28	Straylight	49.000	18	24Alp PsA	1.1660	9700.0	98	28699	No
4	GOM_TRA_1PNPDE20070827_001831_000000452061_00088_28699_2592.N1	27-AUG-2007 00:18:31	Bright	45.000	142	49Del Cap	2.8500	8900.0	90	28699	No
5	GOM_TRA_1PNPDE20070827_002144_000000392061_00088_28699_2593.N1	27-AUG-2007 00:21:44	Bright	38.500	154	22Bet Aqr	2.8990	5700.0	77	28699	No
6	GOM_TRA_1PNPDE20070827_002322_000000412061_00088_28699_2594.N1	27-AUG-2007 00:23:22	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	28699	No
7	GOM_TRA_1PNPDE20070827_002624_000000402061_00088_28699_2595.N1	27-AUG-2007 00:26:24	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	28699	No
8	GOM_TRA_1PNPDE20070827_003308_000000362061_00088_28699_2596.N1	27-AUG-2007 00:33:08	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	28699	No

9	GOM_TRA_1PNPDE20070827_003620_000000372061_00088_28699_2597.N1	27-AUG-2007 00:36:20	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	28699	No
10	GOM_TRA_1PNPDE20070827_004127_000000372061_00088_28699_2598.N1	27-AUG-2007 00:41:27	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	28699	No
11	GOM_TRA_1PNPDE20070827_004858_000000332061_00088_28699_2599.N1	27-AUG-2007 00:48:58	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28699	No
12	GOM_TRA_1PNPDE20070827_010543_000000362061_00088_28699_2600.N1	27-AUG-2007 01:05:43	Bright	36.000	24	66Alp Gem	1.5800	10200.	72	28699	No
13	GOM_TRA_1PNPDE20070827_010925_000000582061_00088_28699_2601.N1	27-AUG-2007 01:09:25	Twilight	58.000	151	13Mu Gem	2.8900	3000.0	116	28699	No
14	GOM_TRA_1PNPDE20070827_011106_000000482061_00088_28699_2602.N1	27-AUG-2007 01:11:06	Twilight	47.500	44	24Gam Gem	1.9280	11000.	95	28699	No
15	GOM_TRA_1PNPDE20070827_011235_000000402061_00088_28699_2603.N1	27-AUG-2007 01:12:35	Twilight	39.500	153	3Bet CMI	2.8940	13100.	79	28699	No
16	GOM_TRA_1PNPDE20070827_012033_000000522061_00088_28699_2712.N1	27-AUG-2007 01:20:33	Dark	52.000	1	9Alp CMa	-1.4400	11000.	104	28699	No
17	GOM_TRA_1PNPDE20070827_012157_000000392061_00088_28699_2713.N1	27-AUG-2007 01:21:57	Dark	39.000	179	24Omi2CMa	3.0320	24000.	78	28699	No
18	GOM_TRA_1PNPDE20070827_012325_000000422061_00088_28699_2714.N1	27-AUG-2007 01:23:25	Dark	42.000	23	21Eps CMa	1.5020	26000.	84	28699	No
19	GOM_TRA_1PNPDE20070827_014134_000000432061_00089_28700_2715.N1	27-AUG-2007 01:41:34	Dark	43.000	9	Alp Eri	0.45300	24000.	86	28700	No
20	GOM_TRA_1PNPDE20070827_015002_000000422061_00089_28700_2716.N1	27-AUG-2007 01:50:02	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	28700	No
21	GOM_TRA_1PNPDE20070827_015404_000000472061_00089_28700_2717.N1	27-AUG-2007 01:54:04	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	28700	No
22	GOM_TRA_1PNPDE20070827_015907_000000472061_00089_28700_2718.N1	27-AUG-2007 01:59:07	Bright	46.500	142	49Del Cap	2.8500	8900.0	93	28700	No
23	GOM_TRA_1PNPDE20070827_020220_000000382061_00089_28700_2719.N1	27-AUG-2007 02:02:20	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	28700	No
24	GOM_TRA_1PNPDE20070827_020357_000000422061_00089_28700_2720.N1	27-AUG-2007 02:03:57	Bright	42.000	162	34Alp Aqr	2.9440	5350.0	84	28700	No
25	GOM_TRA_1PNPDE20070827_020700_000000412061_00089_28700_2721.N1	27-AUG-2007 02:07:00	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	28700	No
26	GOM_TRA_1PNPDE20070827_021344_000000372061_00089_28700_2722.N1	27-AUG-2007 02:13:44	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	28700	No
27	GOM_TRA_1PNPDE20070827_021656_000000372061_00089_28700_2723.N1	27-AUG-2007 02:16:56	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	28700	No
28	GOM_TRA_1PNPDE20070827_022203_000000362061_00089_28700_2724.N1	27-AUG-2007 02:22:03	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	28700	No
29	GOM_TRA_1PNPDE20070827_022934_000000322061_00089_28700_2725.N1	27-AUG-2007 02:29:34	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	28700	No
30	GOM_TRA_1PNPDE20070827_024620_000000362061_00089_28700_2863.N1	27-AUG-2007 02:46:20	Bright	35.500	24	66Alp Gem	1.5800	10200.	71	28700	No
31	GOM_TRA_1PNPDE20070827_025001_000000532061_00089_28700_2864.N1	27-AUG-2007 02:50:01	Twilight	53.000	151	13Mu Gem	2.8900	3000.0	106	28700	No
32	GOM_TRA_1PNPDE20070827_025143_000000452061_00089_28700_2865.N1	27-AUG-2007 02:51:43	Twilight	44.500	44	24Gam Gem	1.9280	11000.	89	28700	No
33	GOM_TRA_1PNPDE20070827_025311_000000392061_00089_28700_2866.N1	27-AUG-2007 02:53:11	Twilight	39.000	153	3Bet CMI	2.8940	13100.	78	28700	No
34	GOM_TRA_1PNPDE20070827_030109_000000482061_00089_28700_2867.N1	27-AUG-2007 03:01:09	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	28700	No
35	GOM_TRA_1PNPDE20070827_030234_000000412061_00089_28700_2868.N1	27-AUG-2007 03:02:34	Dark	40.500	179	24Omi2CMa	3.0320	24000.	81	28700	No
36	GOM_TRA_1PNPDE20070827_030402_000000432061_00089_28700_2869.N1	27-AUG-2007 03:04:02	Dark	43.000	23	21Eps CMa	1.5020	26000.	86	28700	No
37	GOM_TRA_1PNPDE20070827_030529_000000402061_00089_28700_2870.N1	27-AUG-2007 03:05:29	Dark	40.000	177	1Zet CMa	3.0220	26000.	80	28700	No
38	GOM_TRA_1PNPDE20070827_032210_000000472061_00090_28701_2871.N1	27-AUG-2007 03:22:10	Dark	46.500	9	Alp Eri	0.45300	24000.	93	28701	No
39	GOM_TRA_1PNPDE20070827_033038_000000392061_00090_28701_2872.N1	27-AUG-2007 03:30:38	Straylight	38.500	31	Alp Gru	1.7340	15200.	77	28701	No
40	GOM_TRA_1PNPDE20070827_033441_000000502061_00090_28701_2873.N1	27-AUG-2007 03:34:41	Straylight	50.000	18	24Alp PsA	1.1660	9700.0	100	28701	No
41	GOM_TRA_1PNPDE20070827_033943_000000522061_00090_28701_2874.N1	27-AUG-2007 03:39:43	Bright	52.000	142	49Del Cap	2.8500	8900.0	104	28701	No
42	GOM_TRA_1PNPDE20070827_034256_000000392061_00090_28701_2875.N1	27-AUG-2007 03:42:56	Bright	38.500	154	22Bet Aqr	2.8990	5700.0	77	28701	No
43	GOM_TRA_1PNPDE20070827_034433_000000422061_00090_28701_2876.N1	27-AUG-2007 03:44:33	Bright	42.000	162	34Alp Aqr	2.9440	5350.0	84	28701	No
44	GOM_TRA_1PNPDE20070827_034736_000000392061_00090_28701_2877.N1	27-AUG-2007 03:47:36	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	28701	No
45	GOM_TRA_1PNPDE20070827_035420_000000362061_00090_28701_2878.N1	27-AUG-2007 03:54:20	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	28701	No
46	GOM_TRA_1PNPDE20070827_035732_000000362061_00090_28701_2879.N1	27-AUG-2007 03:57:32	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	28701	No
47	GOM_TRA_1PNPDE20070827_040239_000000362061_00090_28701_2880.N1	27-AUG-2007 04:02:39	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	28701	No
48	GOM_TRA_1PNPDE20070827_041010_000000342061_00090_28701_2881.N1	27-AUG-2007 04:10:10	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28701	No
49	GOM_TRA_1PNPDE20070827_042656_000000352061_00090_28701_2994.N1	27-AUG-2007 04:26:56	Bright	35.000	24	66Alp Gem	1.5800	10200.	70	28701	No
50	GOM_TRA_1PNPDE20070827_043038_000000442061_00090_28701_2995.N1	27-AUG-2007 04:30:38	Twilight	43.500	151	13Mu Gem	2.8900	3000.0	87	28701	No

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



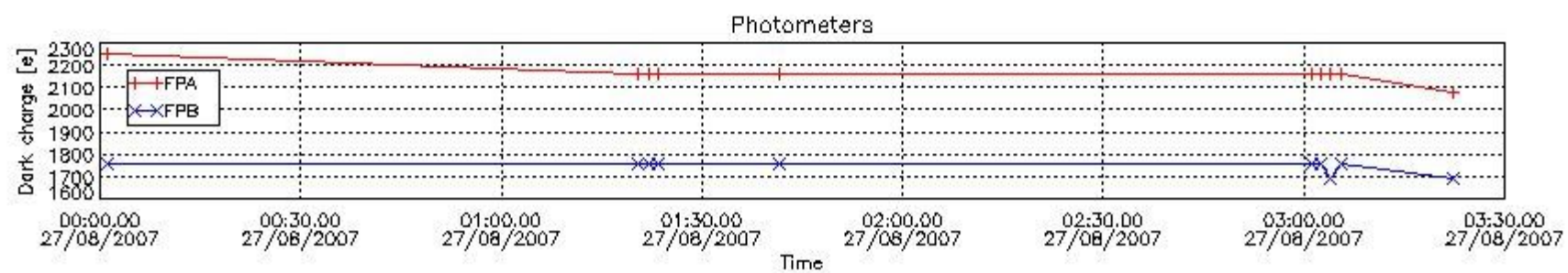
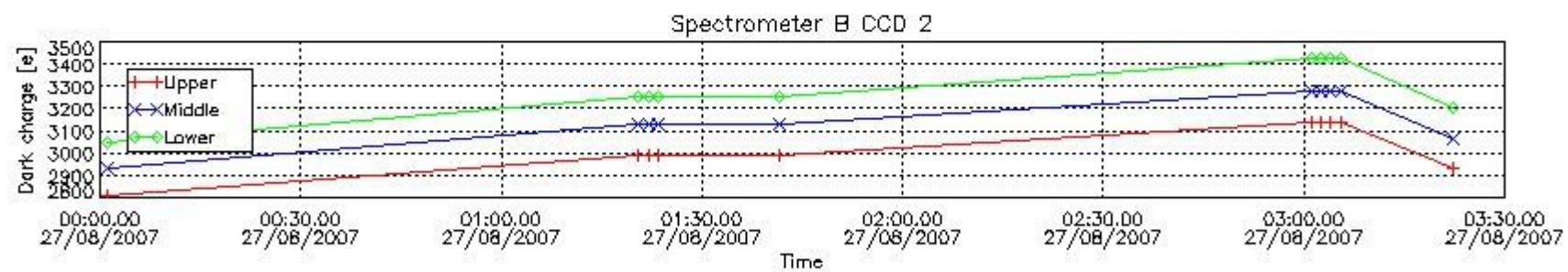
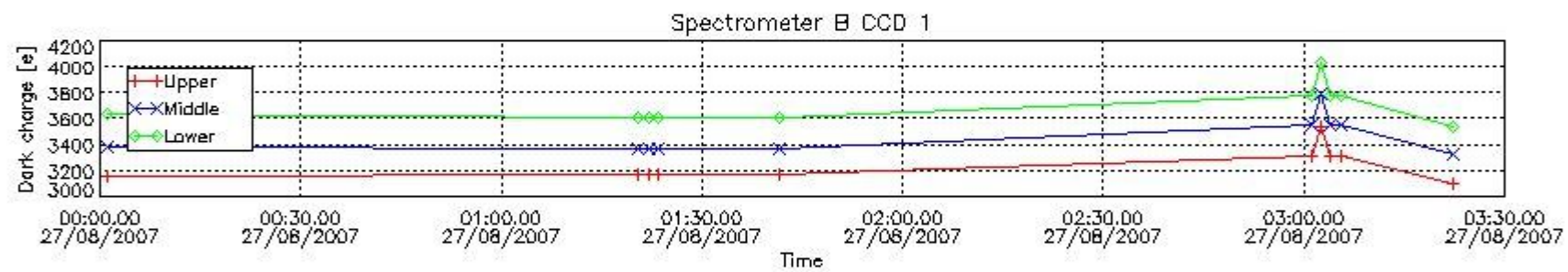
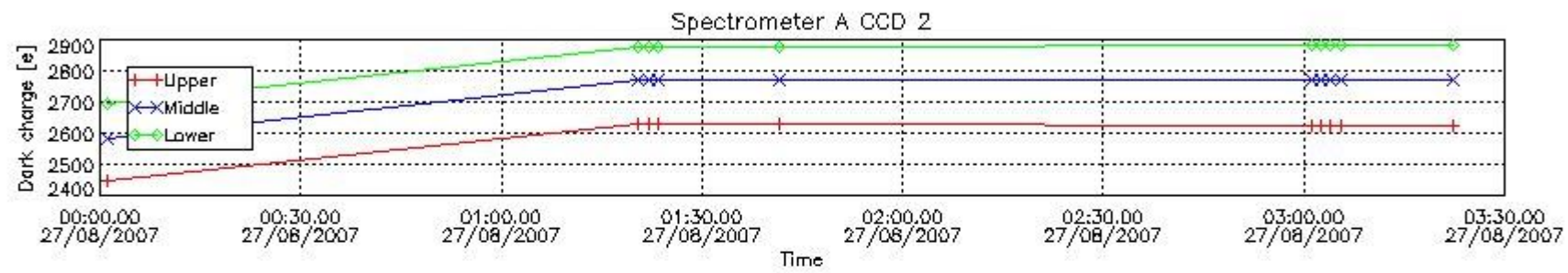
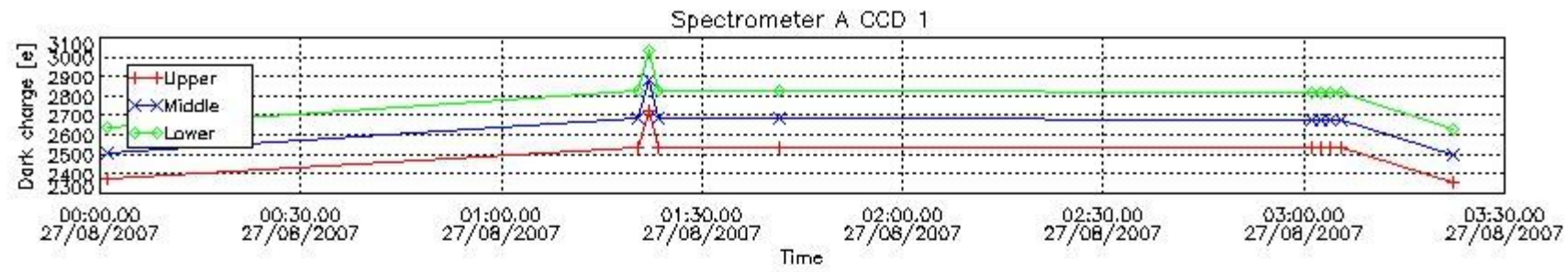
4. Overview of dark signal processing per product

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



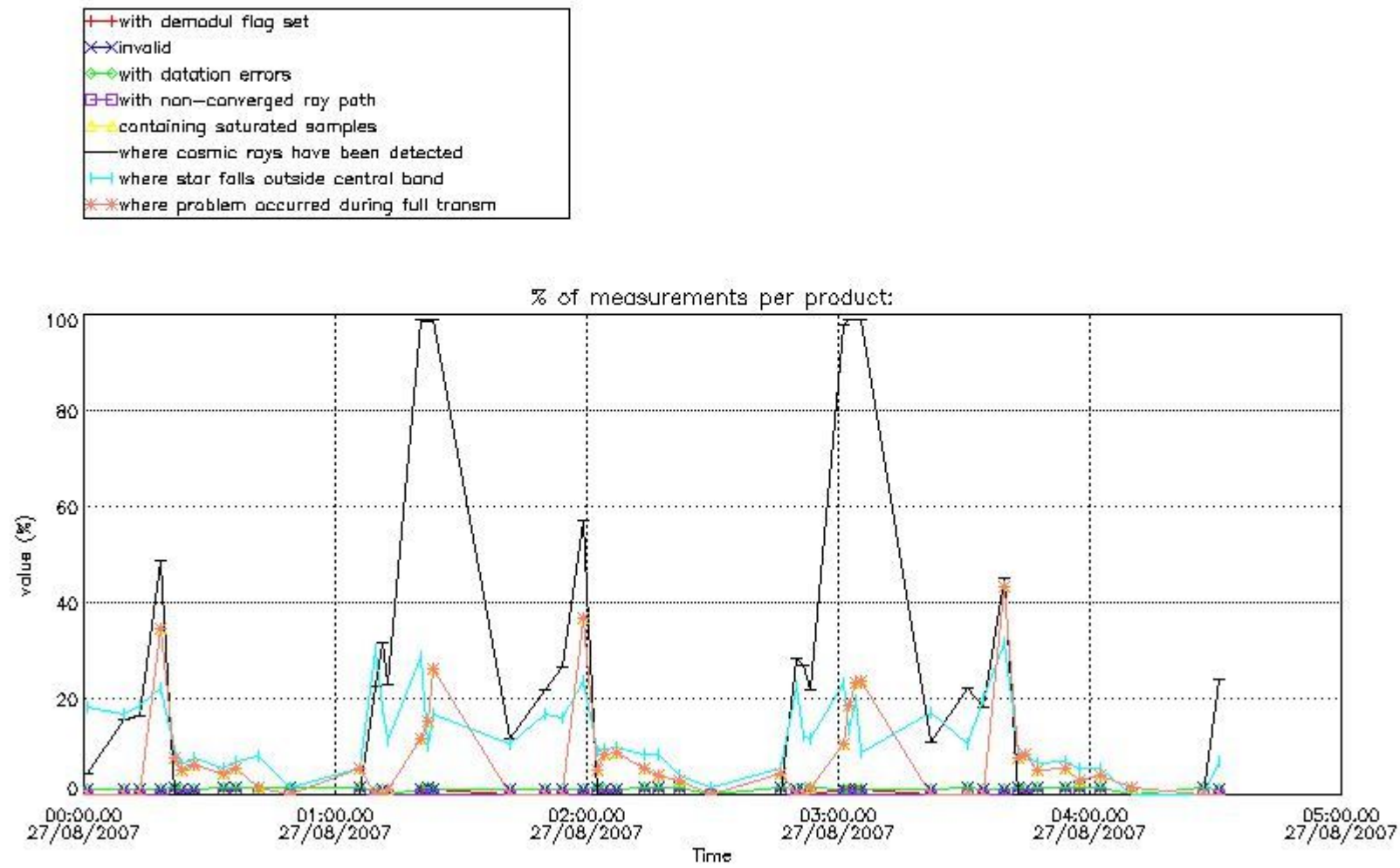
5. Demodulation flag and quality information monitoring

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.

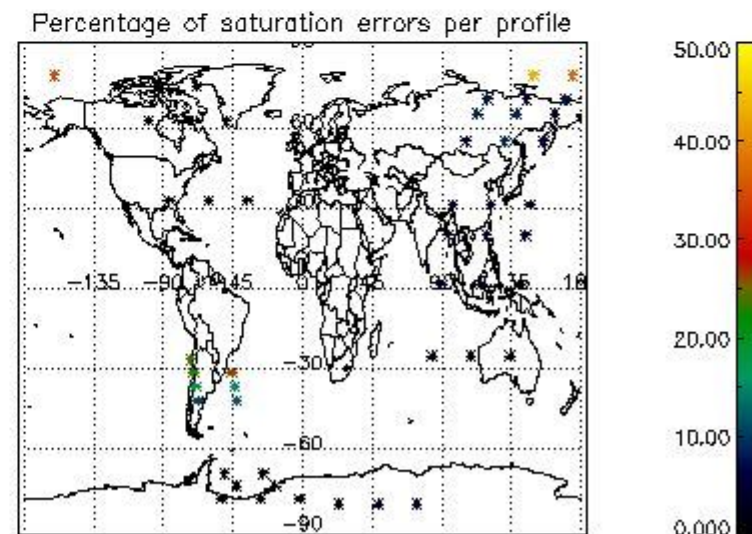
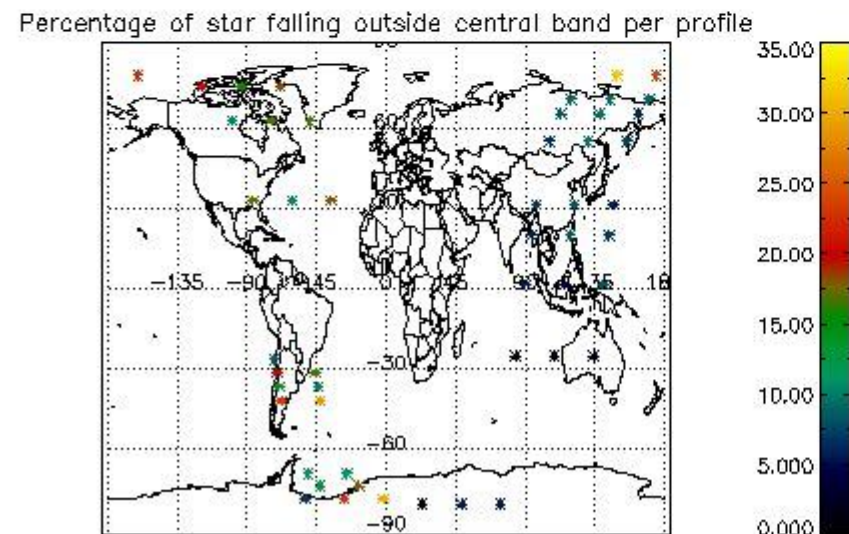
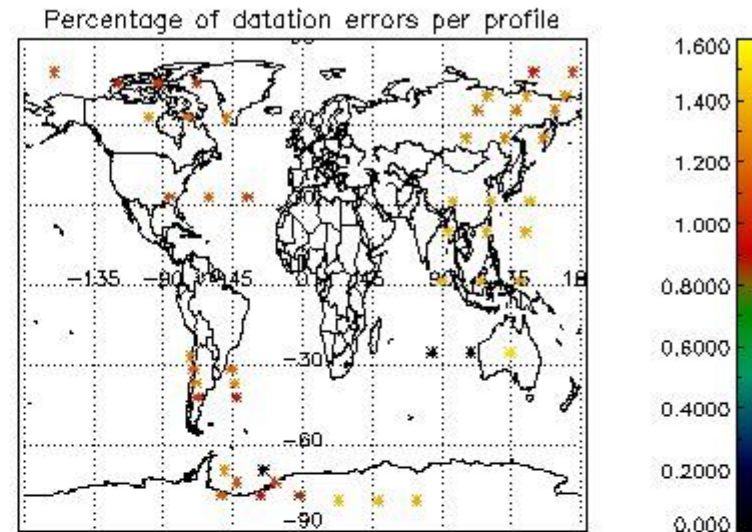
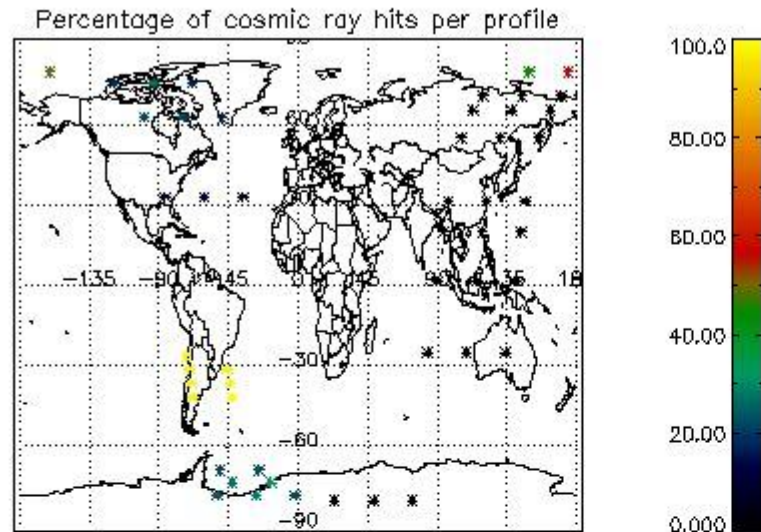
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.0000 %
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)



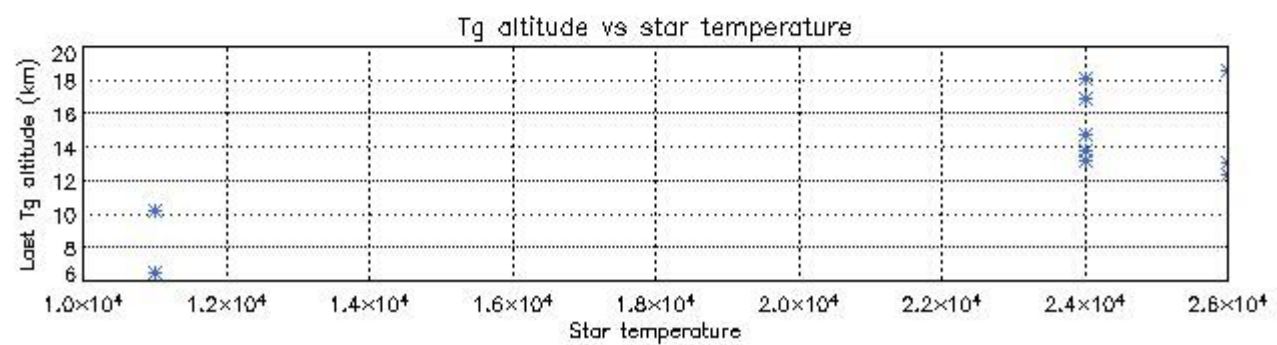
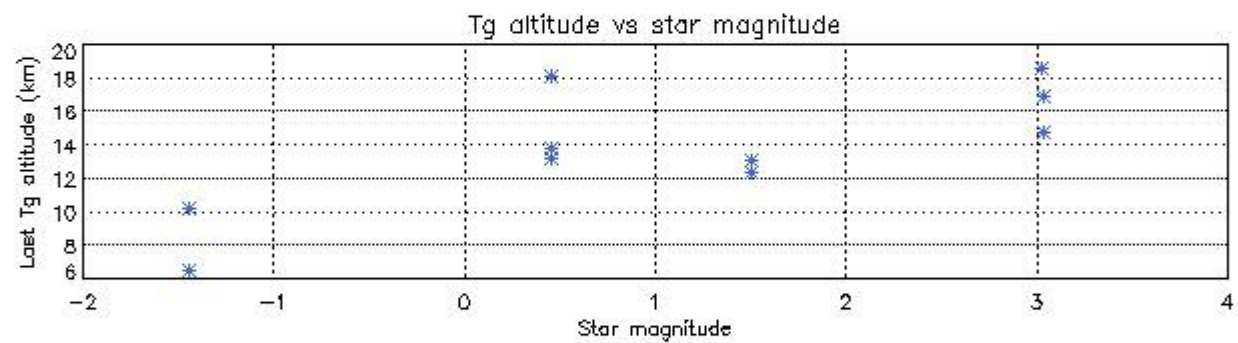
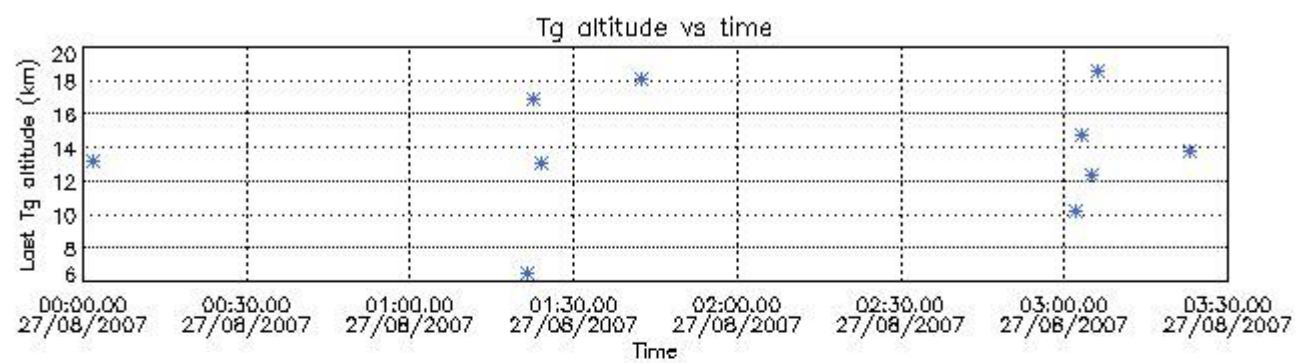
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.731	19.950	16.313
St. deviation:	3.6718	4.9517	0.37159
Maximum:	18.556	31.739	16.576
Minimum:	6.5101	5.7521	16.050
Number of data:	10.000	27.000	2.0000

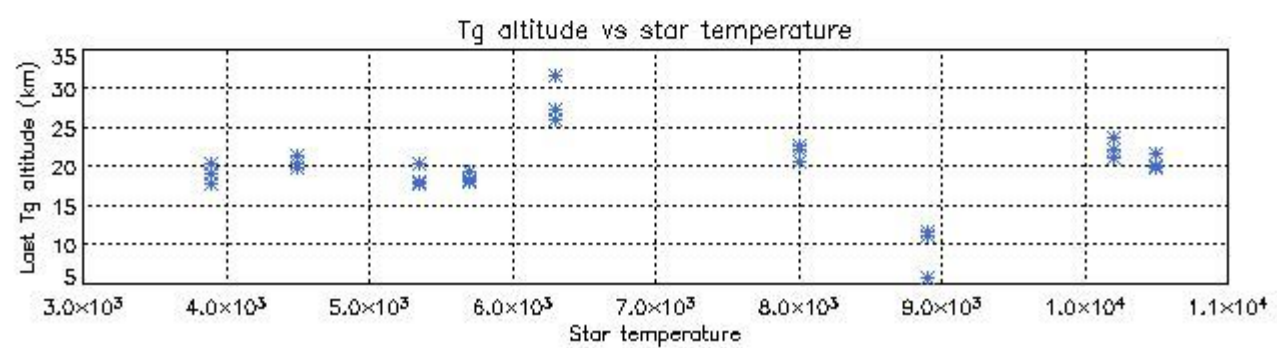
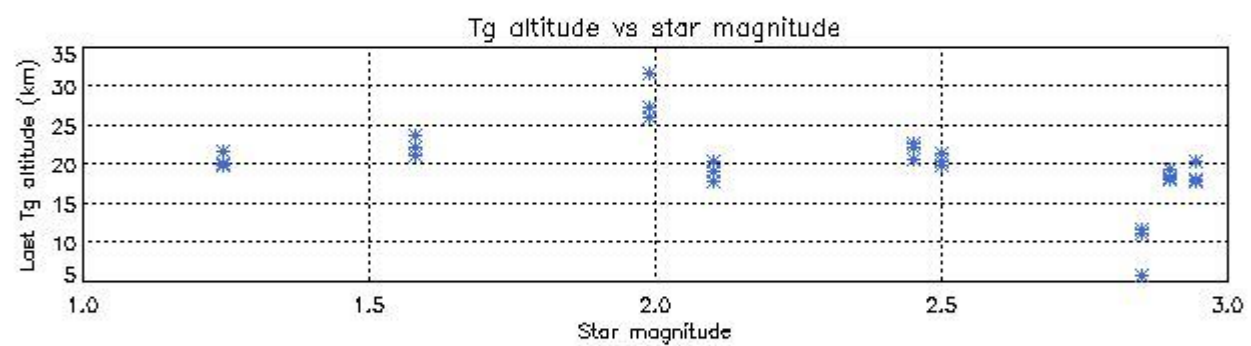
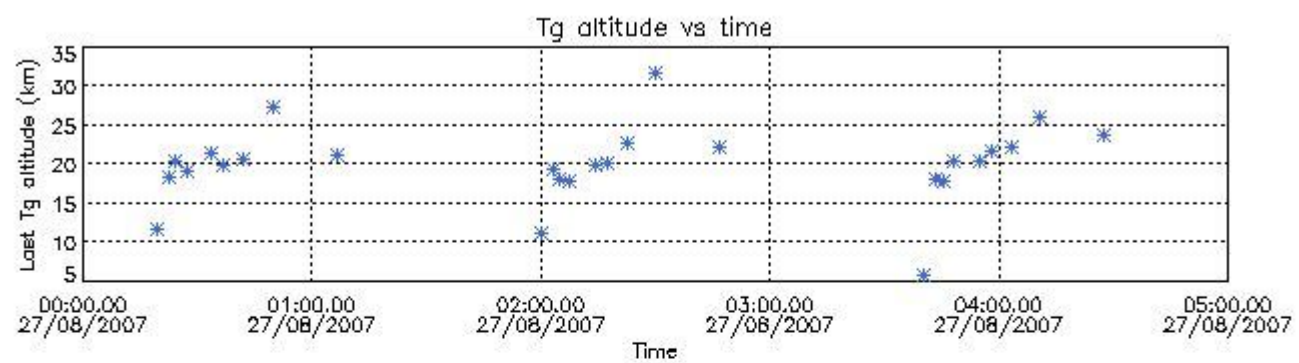
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



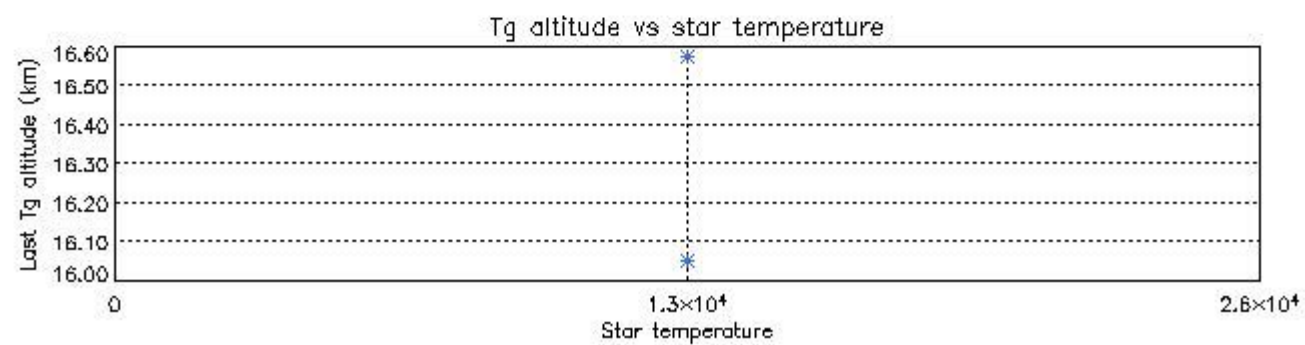
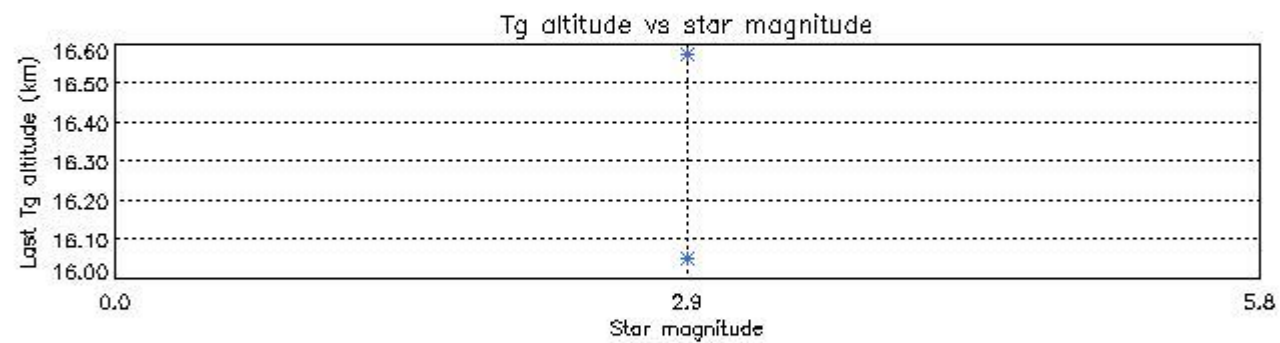
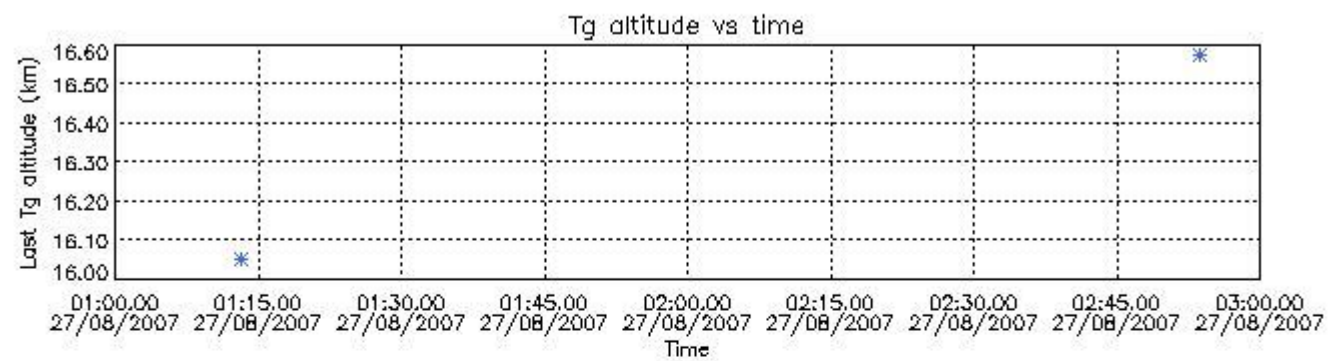
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

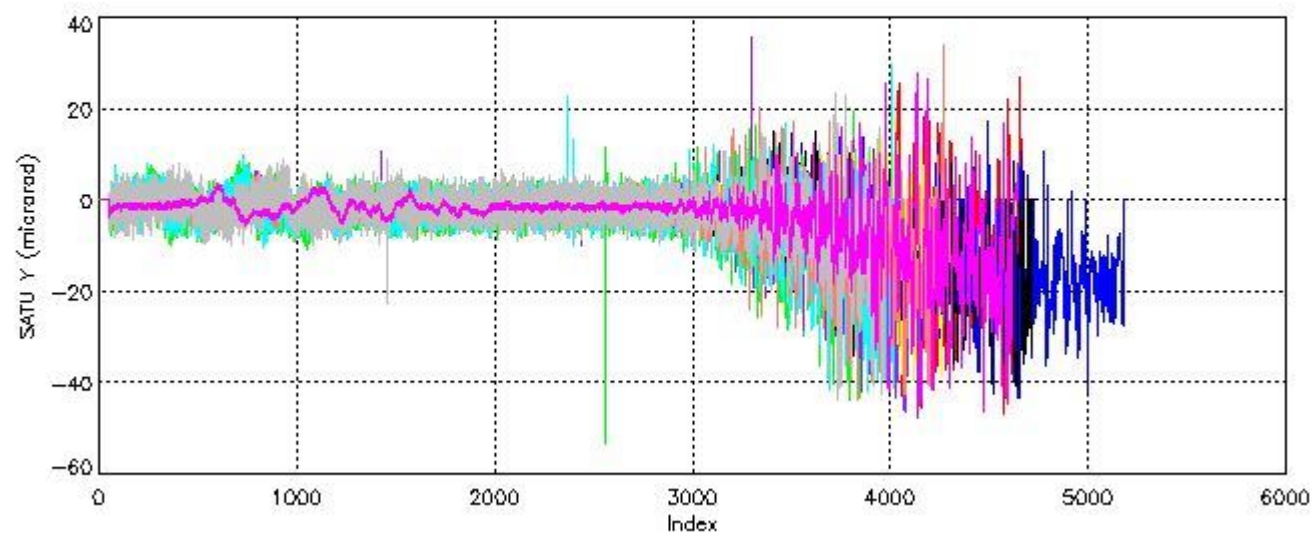
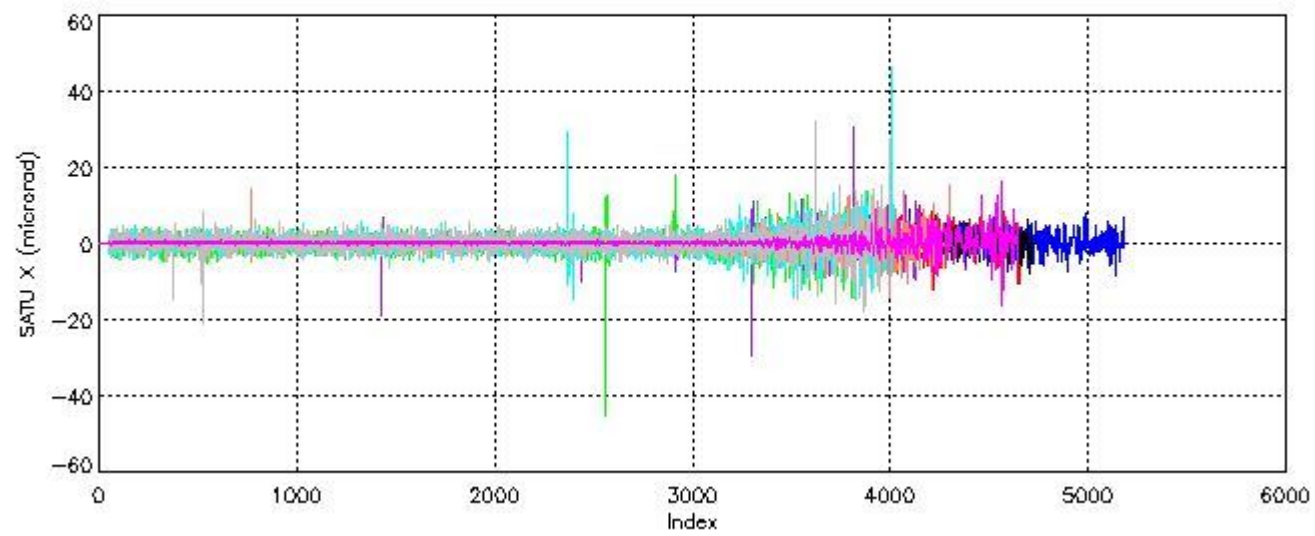


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.11111	-1.0635	0.12940	-1.2397
St. deviation:	0.74611	2.3529	0.67712	1.9778
Maximum:	14.100	9.6000	3.9000	7.0000
Minimum:	-20.800	-10.500	-3.3000	-8.8000

Number of data:	9400.0	9400.0	22600.	22600.
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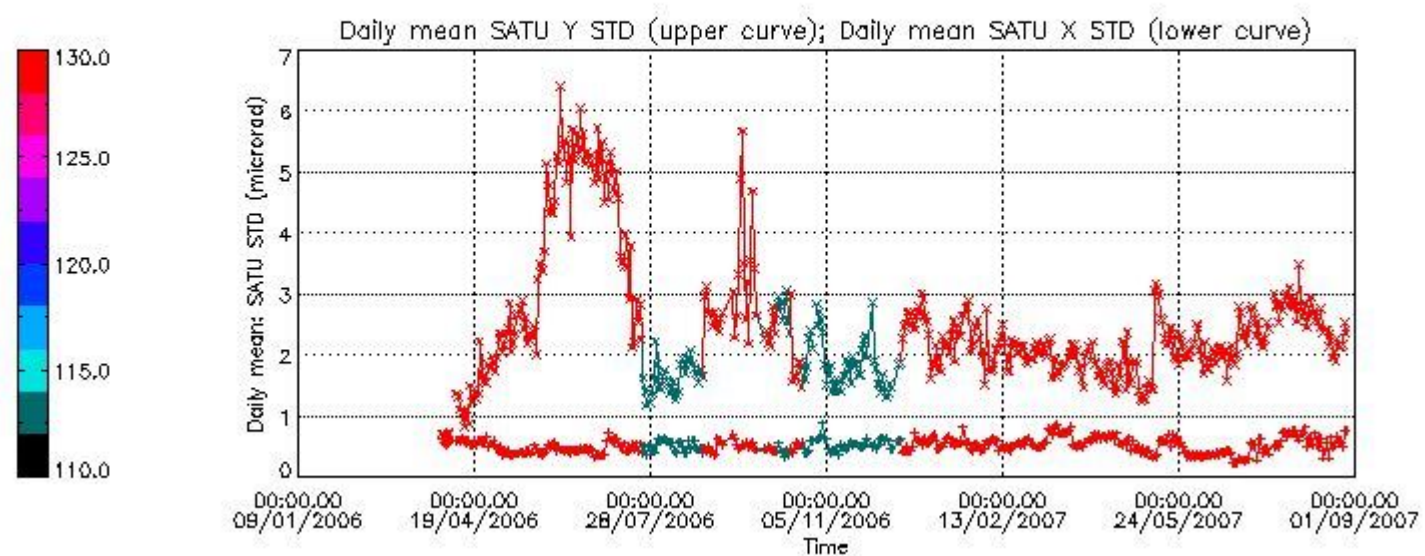
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

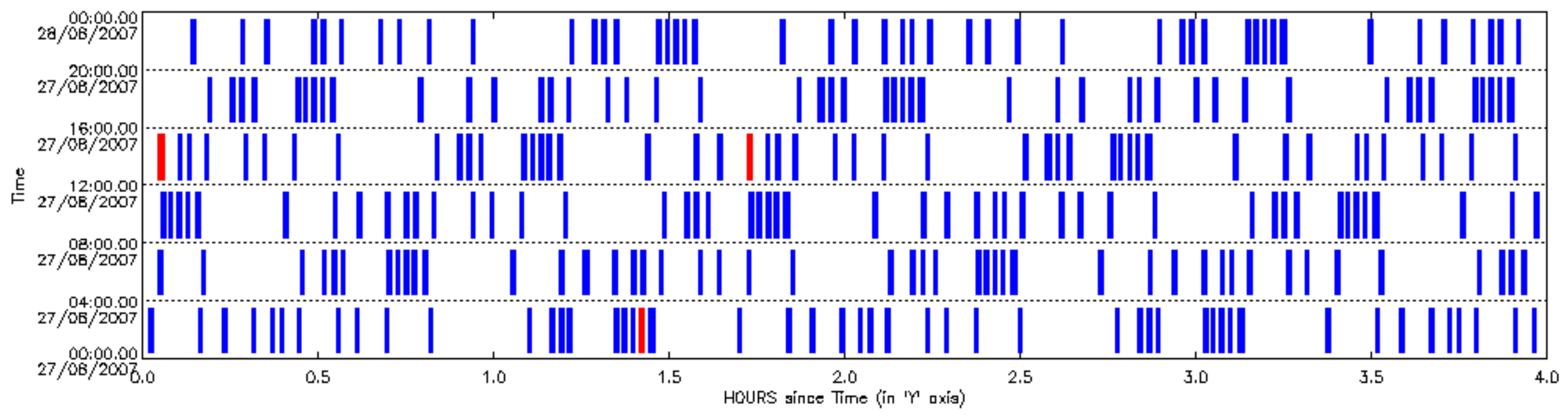
Lower curve: STD of SATU X axis

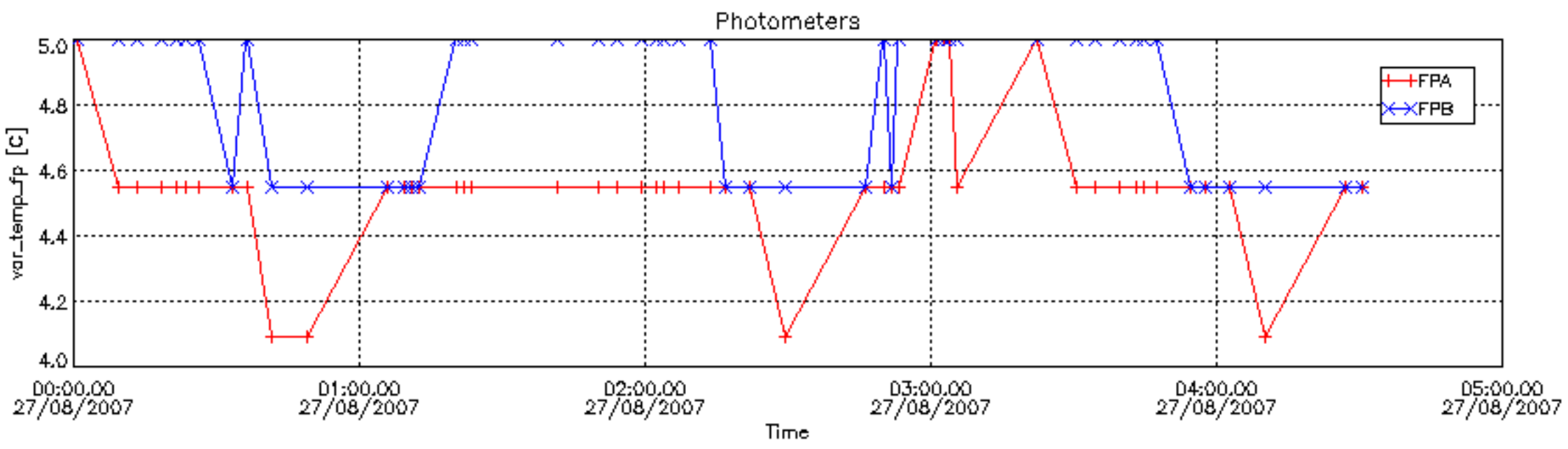
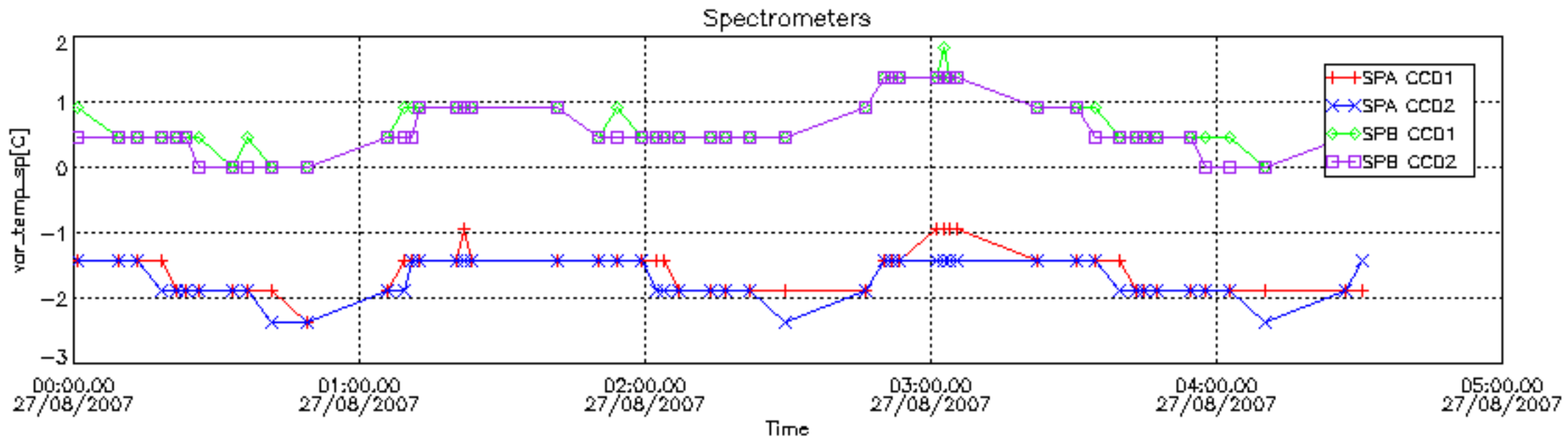


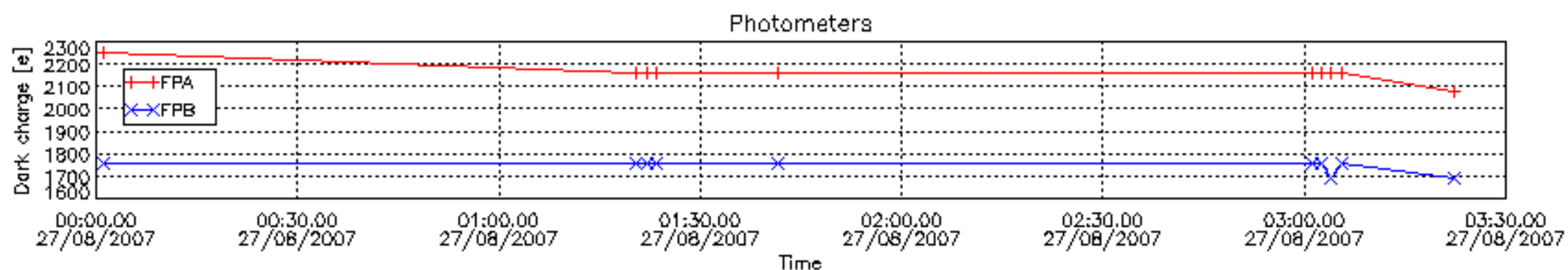
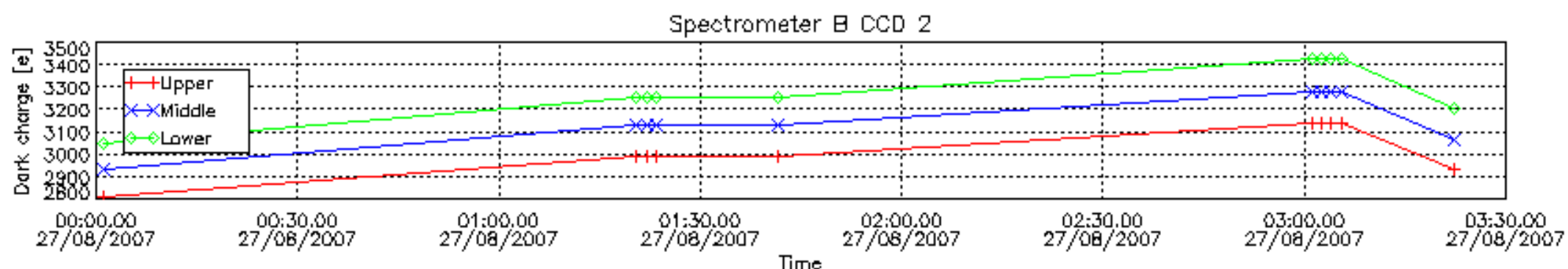
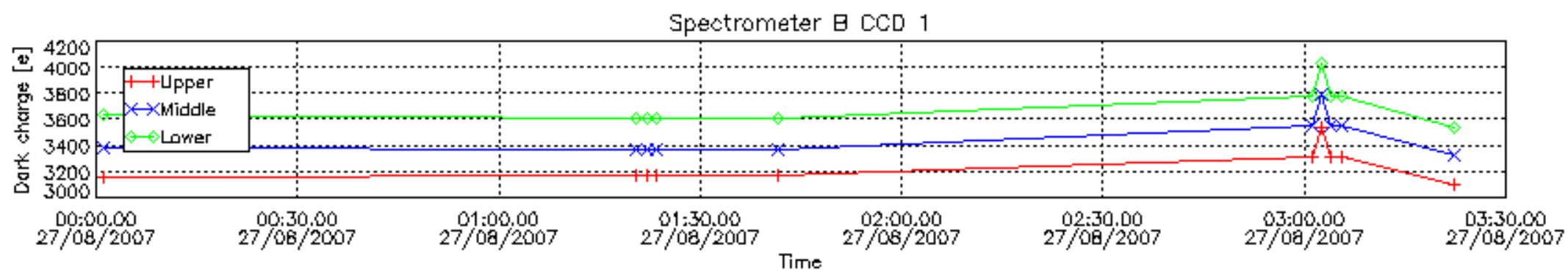
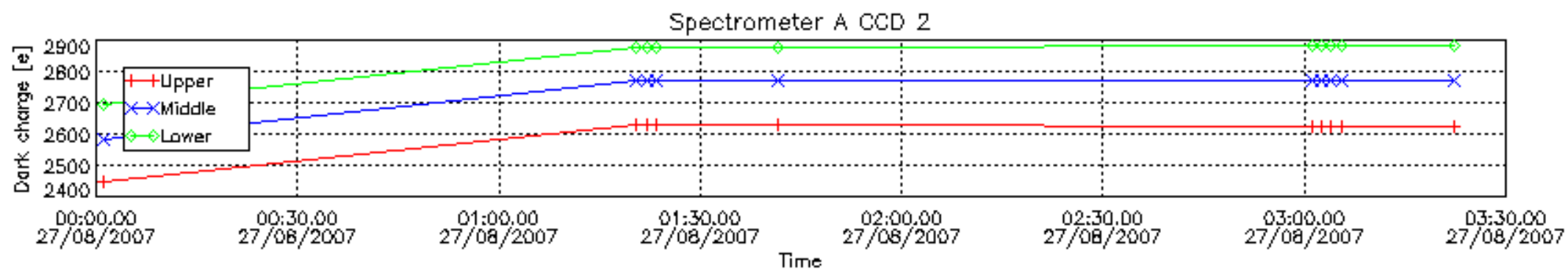
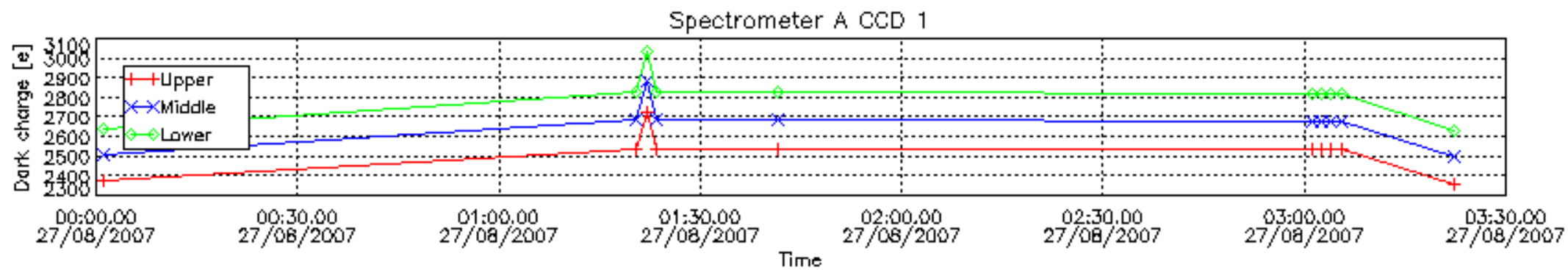
8. Auxiliary Data Files used for the production reported in section 2.4

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.

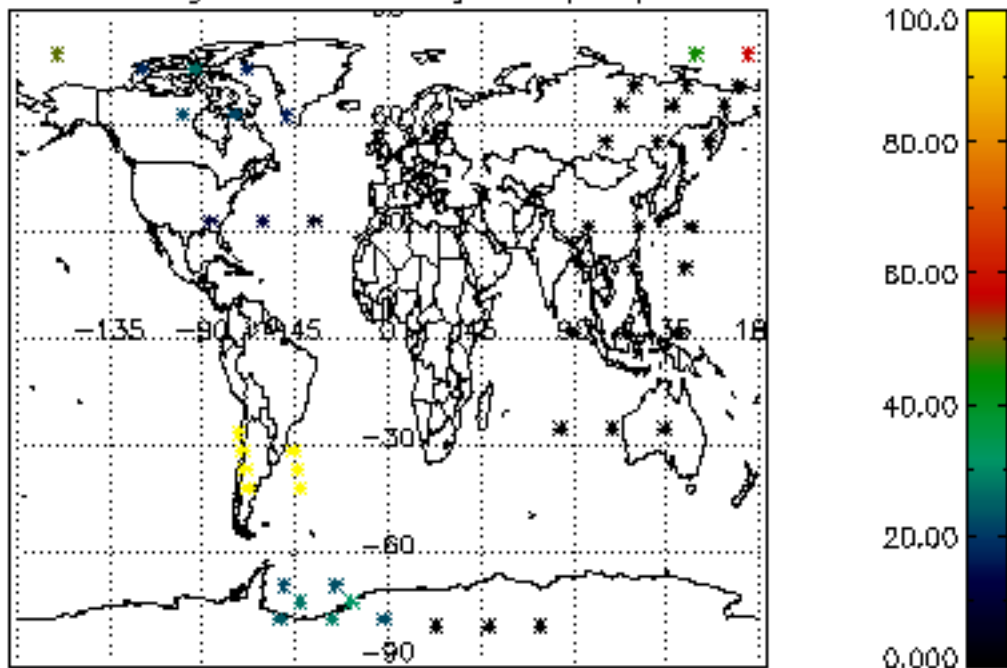
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-AUG-2007 00:00:57
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070822_085350_20070820_000000_20100101_000000	1	27-AUG-2007 00:00:57
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-AUG-2007 00:00:57
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-AUG-2007 00:00:57
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-AUG-2007 00:00:57
ECMWF_FILE	AUX_ECF_AXNECM20070826_062112_20070826_210000_20070827_090000	1	27-AUG-2007 00:00:57
ECMWF_FILE	AUX_ECF_AXNECM20070826_182111_20070827_030000_20070827_150000	49	27-AUG-2007 04:26:56
OPTIONAL_ECMWF_FILE	MISSING	1	27-AUG-2007 00:00:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070826_215359_000057382061_00086_28697_4049.N1	1	27-AUG-2007 00:00:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070826_233456_000057382061_00087_28698_4050.N1	16	27-AUG-2007 01:20:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070827_011553_000041442061_00088_28699_4051.N1	30	27-AUG-2007 02:46:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070827_023016_000057382061_00089_28700_4052.N1	49	27-AUG-2007 04:26:56



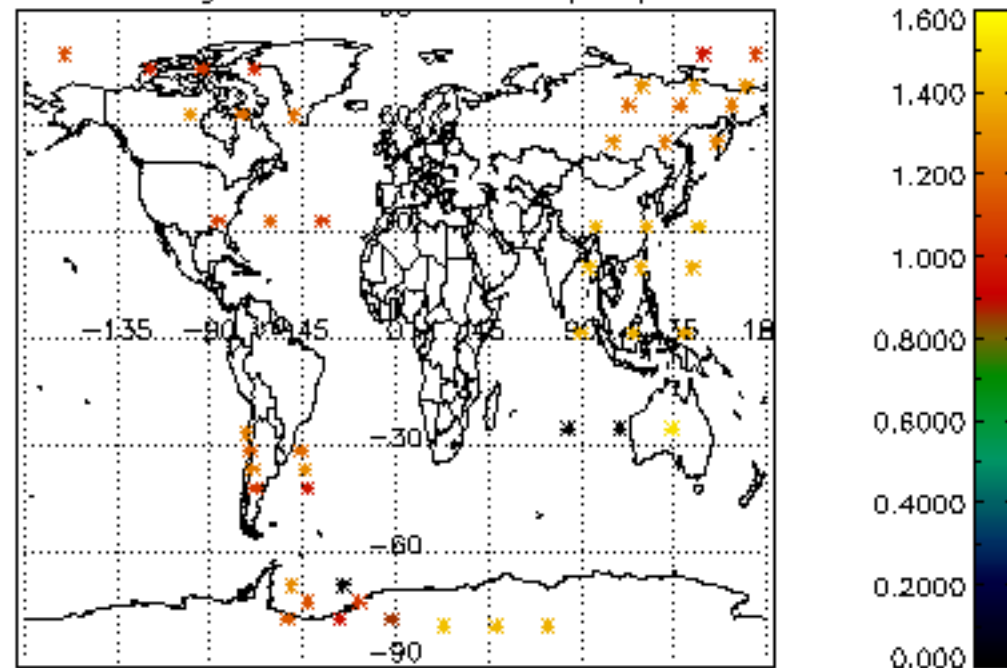




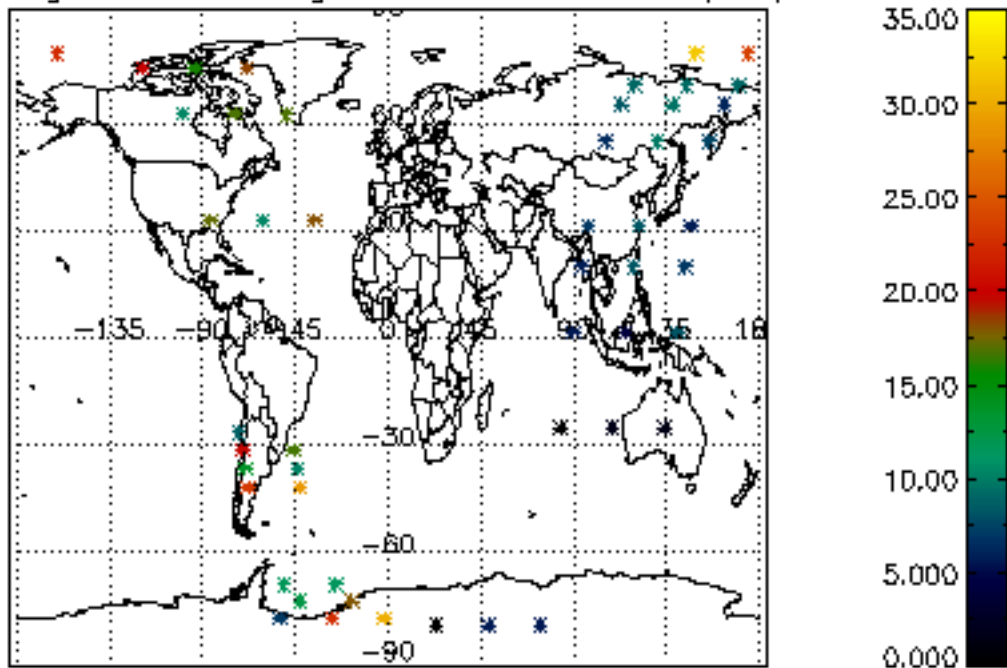
Percentage of cosmic ray hits per profile



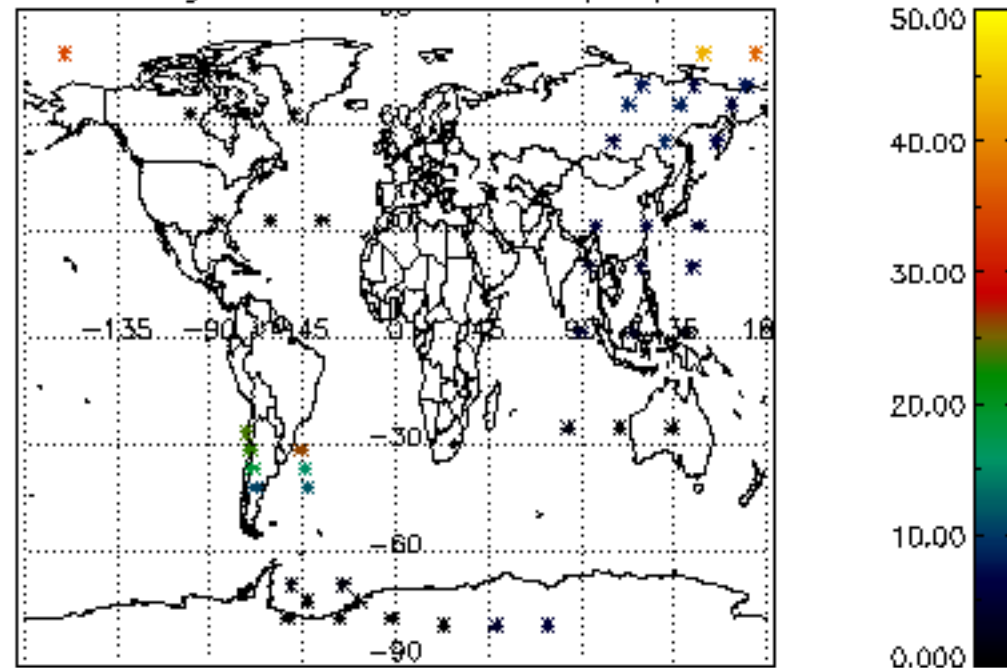
Percentage of datation errors per profile



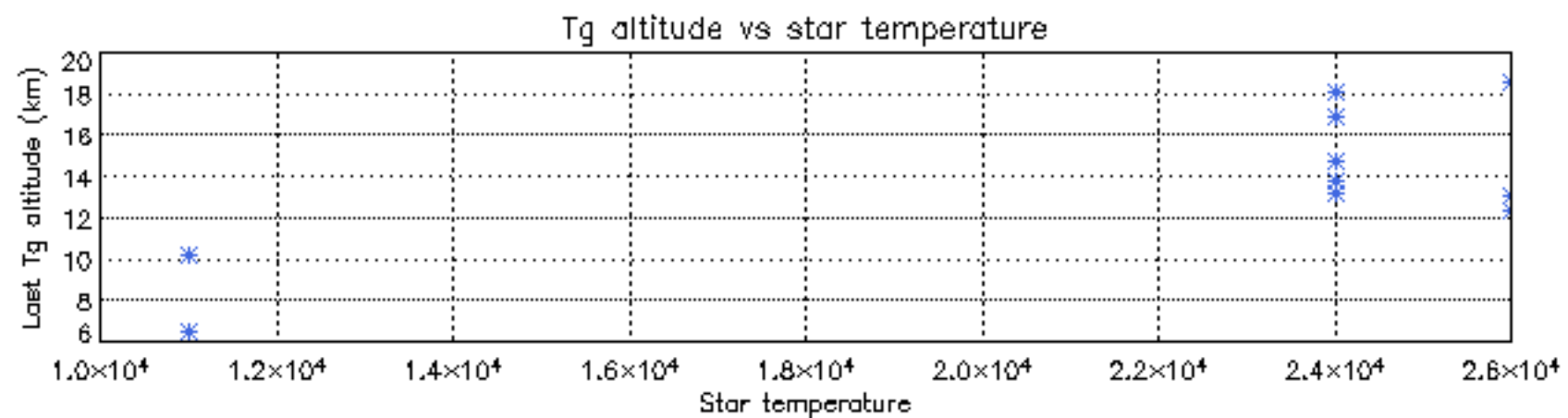
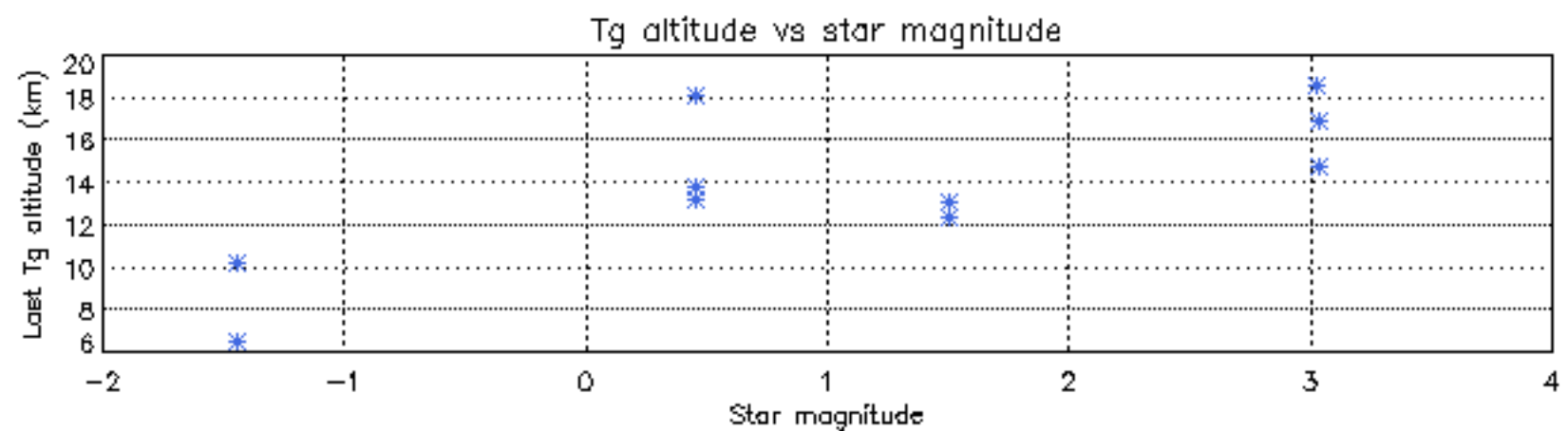
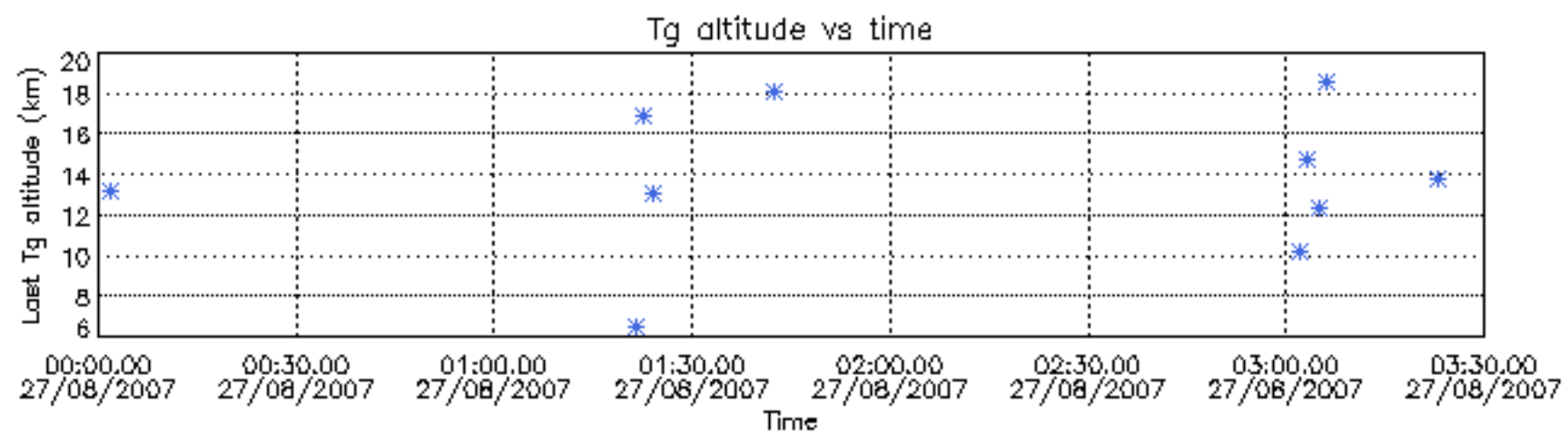
Percentage of star falling outside central band per profile



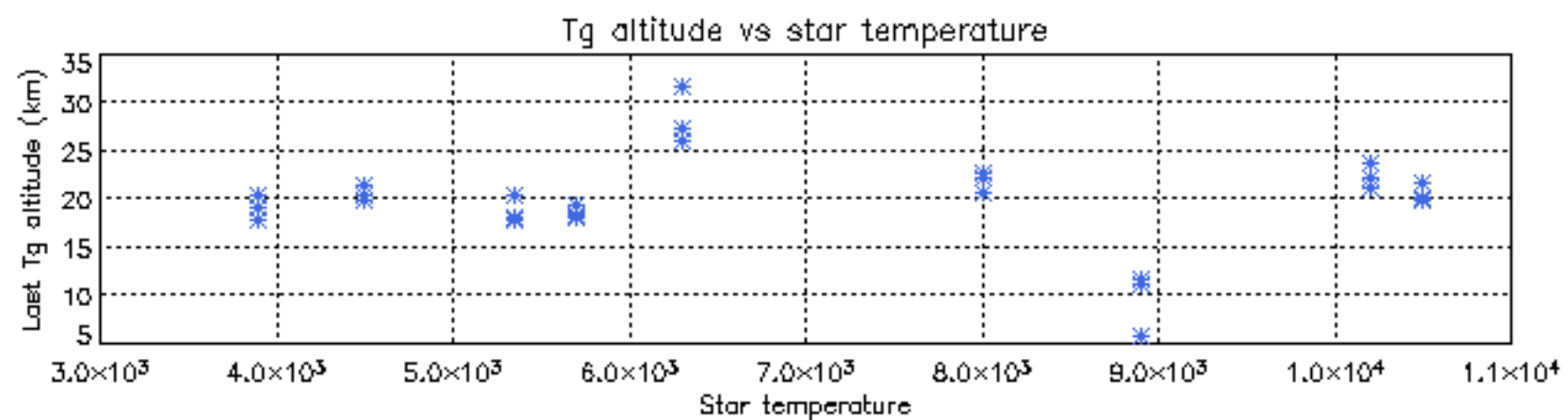
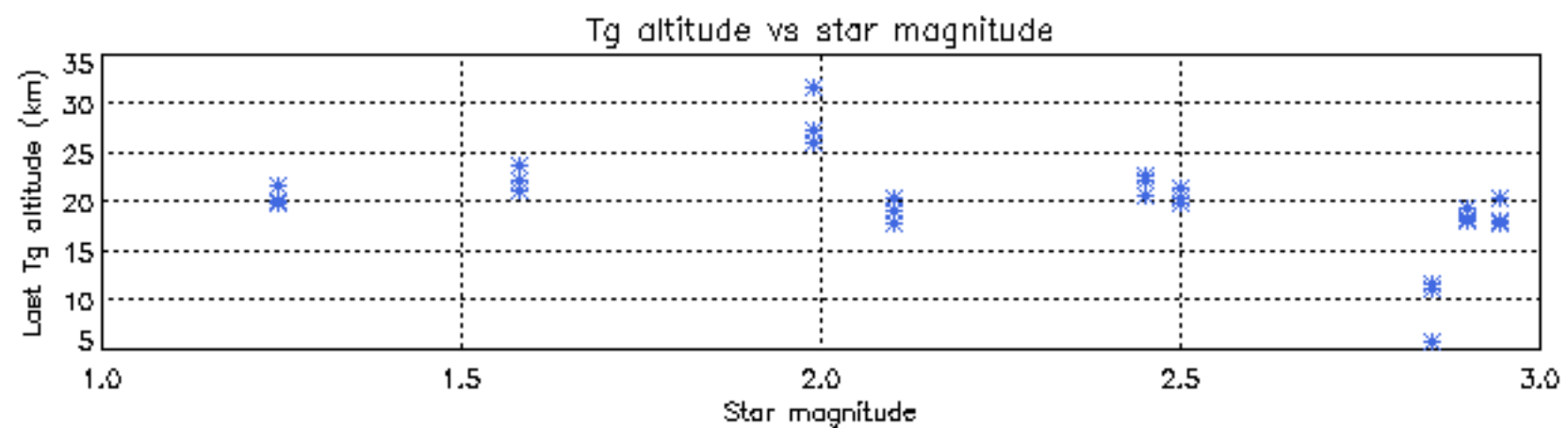
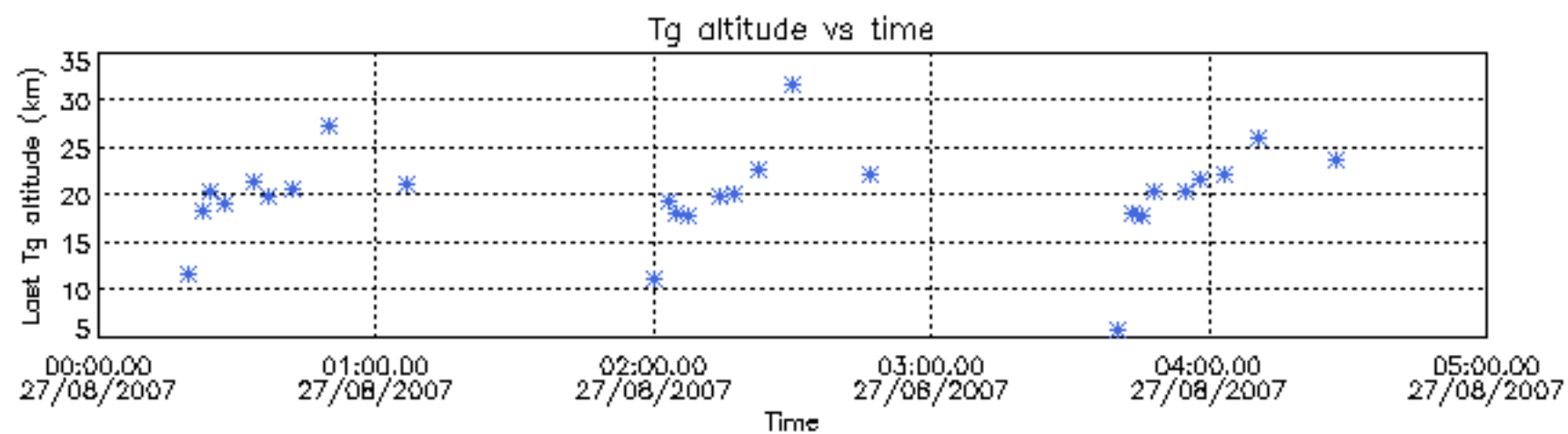
Percentage of saturation errors per profile



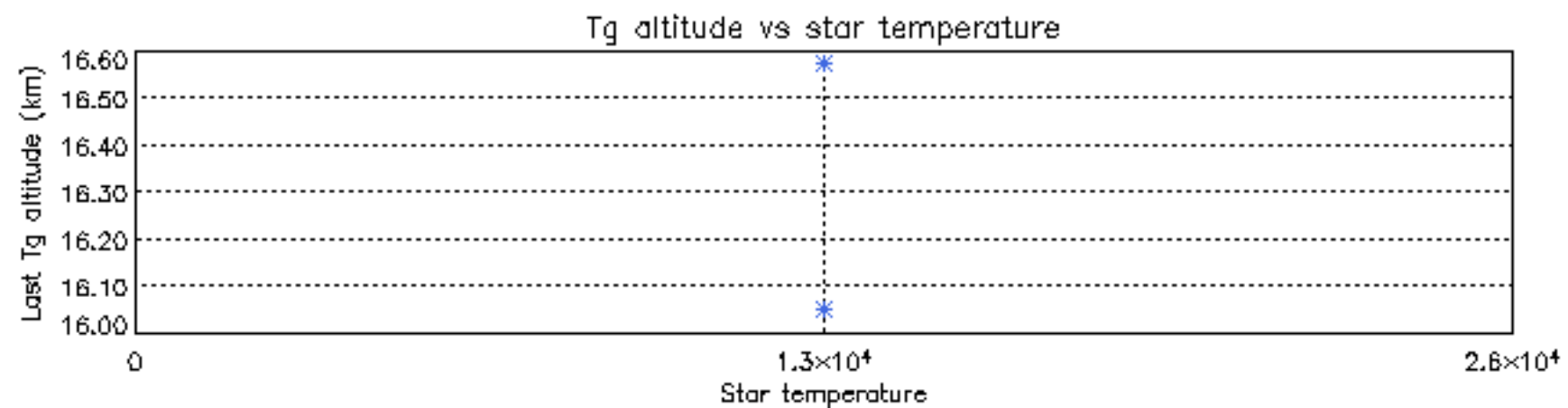
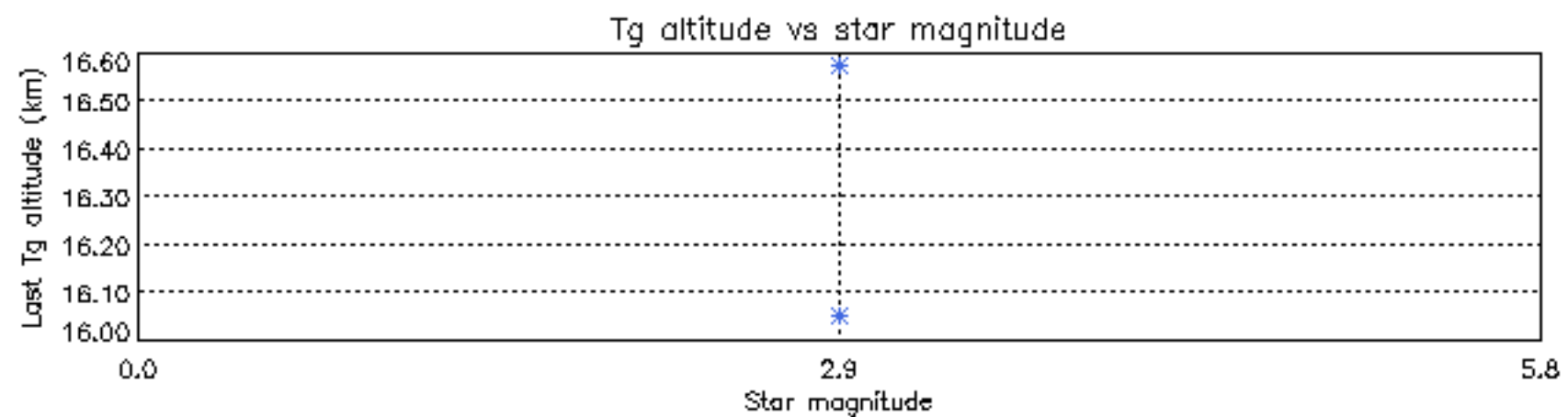
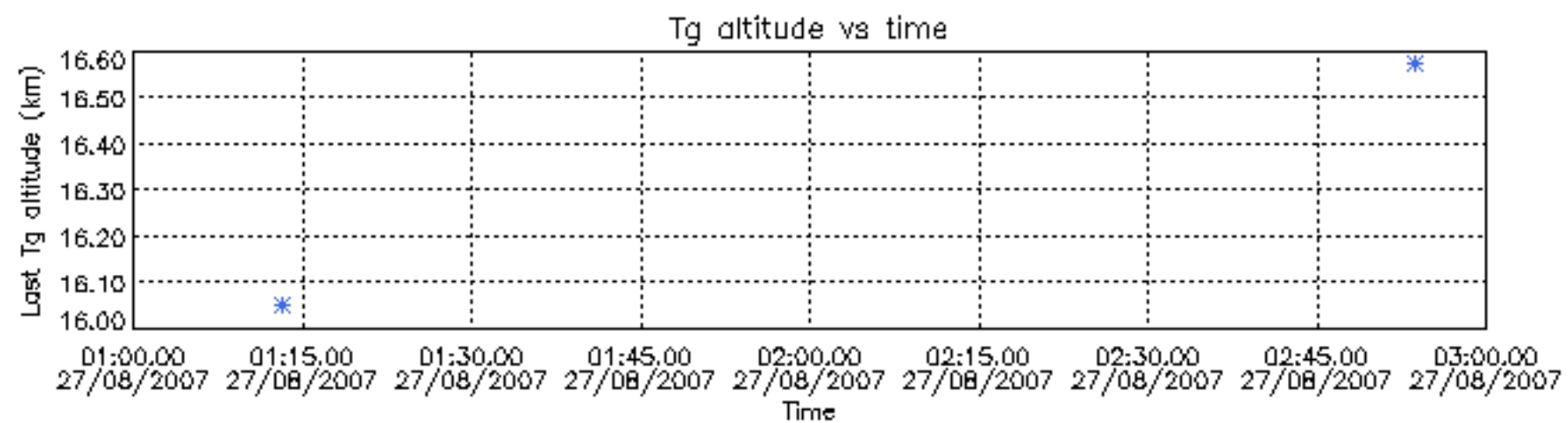
Tangent altitude at which the star is lost

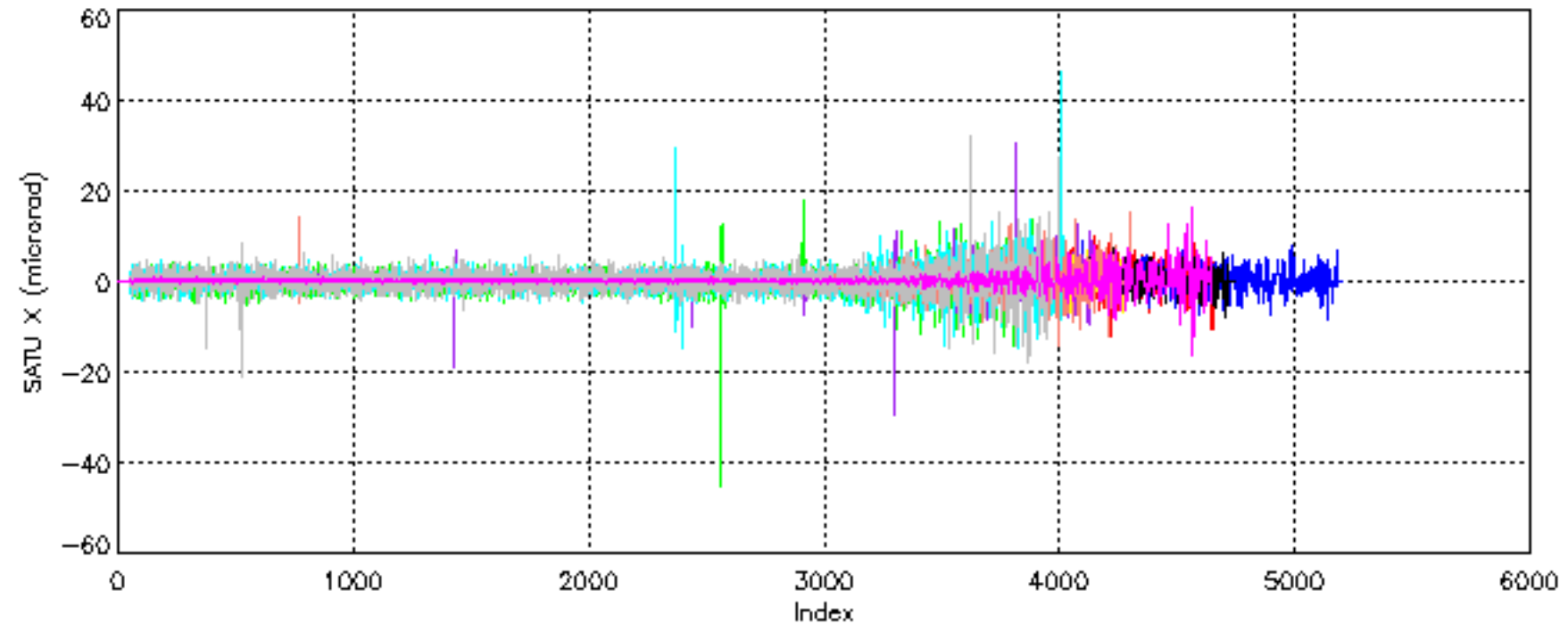


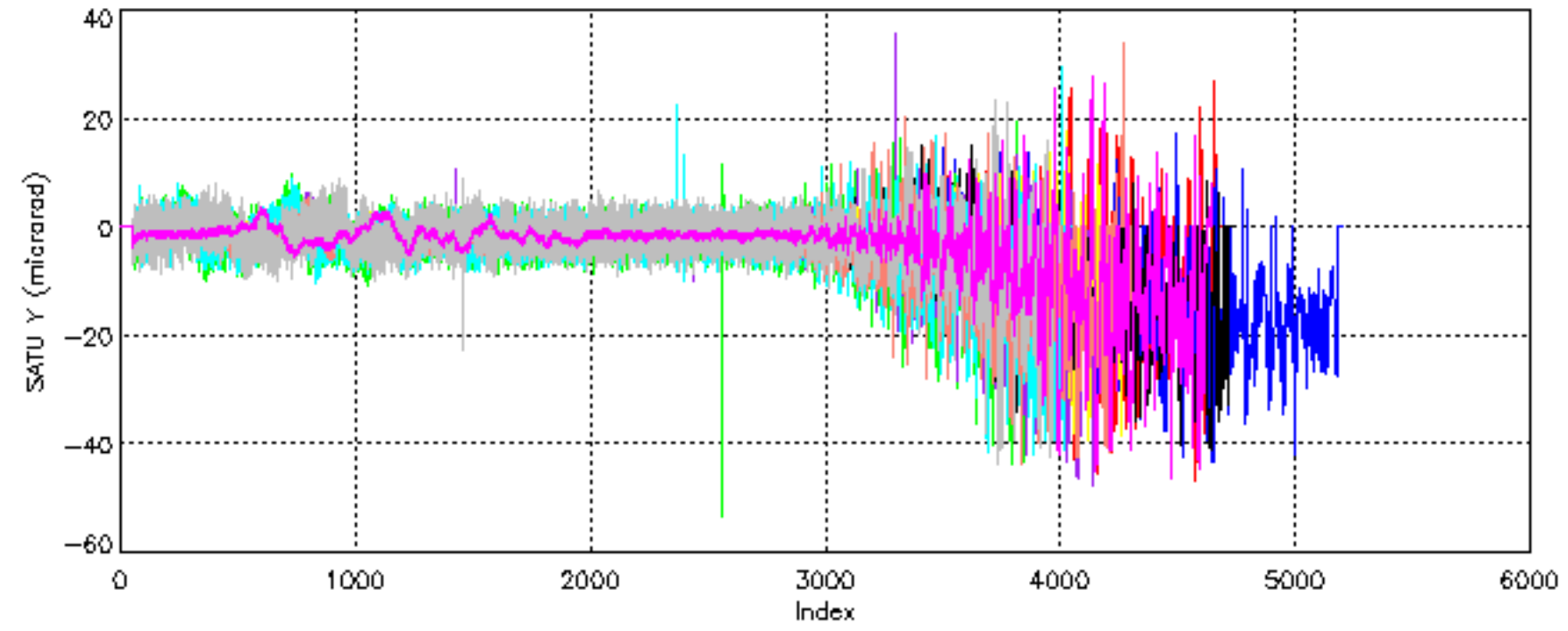
Tangent altitude at which the star is lost

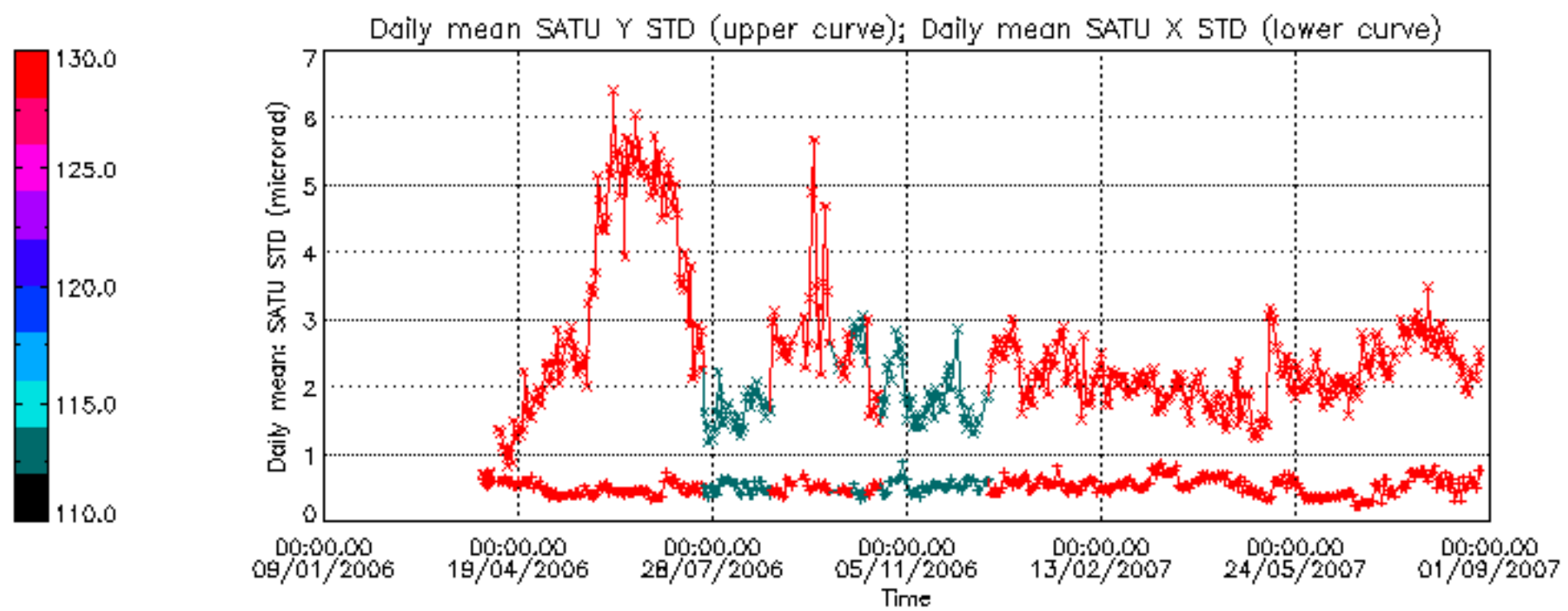


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070801_013632_000042562060_00217_28327_4074.N1

1; -781.4; 01-AUG-2007 01:36:32; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;28327
 2; -680.8; 01-AUG-2007 01:38:13; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;28327
 3; -483.6; 01-AUG-2007 01:41:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28327
 4; 267.4; 01-AUG-2007 01:54:01; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28328
 5; 424.4; 01-AUG-2007 01:56:38; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;28328
 6; 715.8; 01-AUG-2007 02:01:29; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;28328
 7; 909.8; 01-AUG-2007 02:04:43; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;28328
 8; 1412.3; 01-AUG-2007 02:13:06; Dark ; 52.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 104; 0;28328
 9; 1555.1; 01-AUG-2007 02:15:29; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;28328
 10; 2144.7; 01-AUG-2007 02:25:18; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28328
 11; 2569.6; 01-AUG-2007 02:32:23; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;28328
 12; 2796.3; 01-AUG-2007 02:36:10; Bright; 35.5; 69; 33Gam Dra ; 2.23; 3800;occ; 71; 0;28328
 13; 3035.0; 01-AUG-2007 02:40:09; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28328
 14; 3284.8; 01-AUG-2007 02:44:18; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;28328
 15; 3441.1; 01-AUG-2007 02:46:55; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28328

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 2; -1690.0; 01-AUG-2007 03:02:00; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28328
 3; -1397.3; 01-AUG-2007 03:06:52; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;28328
 4; -1178.1; 01-AUG-2007 03:10:31; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;28328
 5; -1013.2; 01-AUG-2007 03:13:16; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;28328
 6; -865.6; 01-AUG-2007 03:15:44; Dark ; 43.5; 7; 19Bet Ori ; 0.10; 14000;occ; 87; 0;28328
 7; -781.2; 01-AUG-2007 03:17:08; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;28328
 8; -680.5; 01-AUG-2007 03:18:49; Dark ; 41.5; 139; 9Bet Lep ; 2.83; 5600;occ; 83; 0;28328
 9; -580.1; 01-AUG-2007 03:20:29; Dark ; 36.0; 177; 1Zet CMa ; 3.02; 26000;occ; 72; 0;28328
 10; -483.5; 01-AUG-2007 03:22:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28328
 11; 268.0; 01-AUG-2007 03:34:37; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;28329
 12; 424.7; 01-AUG-2007 03:37:14; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28329
 13; 716.4; 01-AUG-2007 03:42:06; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;28329
 14; 910.2; 01-AUG-2007 03:45:20; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28329
 15; 1412.6; 01-AUG-2007 03:53:42; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28329
 16; 1555.4; 01-AUG-2007 03:56:05; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;28329
 17; 2144.9; 01-AUG-2007 04:05:54; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;28329
 18; 2569.7; 01-AUG-2007 04:12:59; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;28329
 19; 2796.5; 01-AUG-2007 04:16:46; Bright; 36.0; 69; 33Gam Dra ; 2.23; 3800;occ; 72; 0;28329
 20; 3035.5; 01-AUG-2007 04:20:45; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28329
 21; 3285.2; 01-AUG-2007 04:24:55; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;28329
 22; 3441.2; 01-AUG-2007 04:27:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28329

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 2; -1689.8; 01-AUG-2007 04:42:36; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;28329
 3; -1397.3; 01-AUG-2007 04:47:28; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28329
 4; -1177.7; 01-AUG-2007 04:51:08; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28329
 5; -1012.9; 01-AUG-2007 04:53:53; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;28329
 6; -865.0; 01-AUG-2007 04:56:21; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;28329
 7; -781.2; 01-AUG-2007 04:57:44; Dark ; 41.0; 47; 2Bet CMa ; 1.98; 28000;occ; 82; 0;28329
 8; -680.0; 01-AUG-2007 04:59:26; Dark ; 39.0; 139; 9Bet Lep ; 2.83; 5600;occ; 78; 0;28329
 9; -580.0; 01-AUG-2007 05:01:06; Dark ; 37.0; 177; 1Zet CMa ; 3.02; 26000;occ; 74; 0;28329
 10; -483.3; 01-AUG-2007 05:02:42; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28329
 11; 268.4; 01-AUG-2007 05:15:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;28330
 12; 425.1; 01-AUG-2007 05:17:51; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28330
 13; 716.8; 01-AUG-2007 05:22:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;28330
 14; 910.5; 01-AUG-2007 05:25:56; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28330
 15; 1412.8; 01-AUG-2007 05:34:18; Dark ; 47.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 94; 0;28330
 16; 1555.7; 01-AUG-2007 05:36:41; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28330
 17; 2145.1; 01-AUG-2007 05:46:31; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;28330
 18; 2569.7; 01-AUG-2007 05:53:35; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;28330
 19; 2796.7; 01-AUG-2007 05:57:22; Bright; 37.5; 69; 33Gam Dra ; 2.23; 3800;occ; 75; 0;28330
 20; 3035.9; 01-AUG-2007 06:01:21; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;28330
 21; 3285.4; 01-AUG-2007 06:05:31; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;28330
 22; 3441.2; 01-AUG-2007 06:08:07; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28330

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1; 1414.3; 01-AUG-2007 20:39:43; Dark ; 40.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 81; 0;28339
 2; 1557.1; 01-AUG-2007 20:42:06; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28339
 3; 2145.4; 01-AUG-2007 20:51:54; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;28339
 4; 2570.3; 01-AUG-2007 20:58:59; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;28339
 5; 2798.1; 01-AUG-2007 21:02:47; Bright; 38.5; 69; 33Gam Dra ; 2.23; 3800;occ; 77; 0;28339

6; 3038.7; 01-AUG-2007 21:06:48; Bright; 29.0; 119; 14Eta Dra ; 2.73; 4700;occ; 58; 0;28339
7; 3287.8; 01-AUG-2007 21:10:57; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;28339
8; 3441.0; 01-AUG-2007 21:13:30; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28339
9; 4212.8; 01-AUG-2007 21:26:22; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;28339
10; 4347.2; 01-AUG-2007 21:28:36; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;28339
11; 4641.0; 01-AUG-2007 21:33:30; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28339
12; 4860.9; 01-AUG-2007 21:37:10; Dark ; 37.5; 14; 58Alp Ori ; 0.87; 3000;occ; 75; 0;28339
13; 5026.4; 01-AUG-2007 21:39:55; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;28339
14; 5175.2; 01-AUG-2007 21:42:24; Dark ; 34.0; 7; 19Bet Ori ; 0.10; 14000;occ; 68; 0;28339
15; 5256.5; 01-AUG-2007 21:43:45; Dark ; 38.5; 47; 2Bet CMA ; 1.98; 28000;occ; 77; 0;28339

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2; -676.1; 01-AUG-2007 21:45:29; Dark ; 40.5; 139; 9Bet Lep ; 2.83; 5600;occ; 81; 0;28339
3; -578.3; 01-AUG-2007 21:47:07; Dark ; 37.0; 177; 1Zet CMA ; 3.02; 26000;occ; 74; 0;28339
4; -481.5; 01-AUG-2007 21:48:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28339
5; 274.2; 01-AUG-2007 22:01:19; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28340
6; 427.5; 01-AUG-2007 22:03:52; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28340
7; 720.9; 01-AUG-2007 22:08:46; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28340
8; 913.0; 01-AUG-2007 22:11:58; Dark ; 37.5; 45; Alp Pav ; 1.94; 26000;occ; 75; 0;28340
9; 1414.5; 01-AUG-2007 22:20:19; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28340
10; 1557.2; 01-AUG-2007 22:22:42; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;28340
11; 2145.4; 01-AUG-2007 22:32:30; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28340
12; 2570.4; 01-AUG-2007 22:39:35; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;28340
13; 2798.2; 01-AUG-2007 22:43:23; Bright; 33.0; 69; 33Gam Dra ; 2.23; 3800;occ; 66; 0;28340
14; 3288.1; 01-AUG-2007 22:51:33; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;28340
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16; 4213.0; 01-AUG-2007 23:06:58; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;28340
17; 4347.5; 01-AUG-2007 23:09:12; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28340
18; 4641.2; 01-AUG-2007 23:14:06; Dark ; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;28340
19; 4861.1; 01-AUG-2007 23:17:46; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;28340
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21; 5153.6; 01-AUG-2007 23:22:38; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;28340
22; 5256.8; 01-AUG-2007 23:24:22; Dark ; 39.5; 47; 2Bet CMA ; 1.98; 28000;occ; 79; 0;28340
23; 5360.2; 01-AUG-2007 23:26:05; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;28340

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2; -578.3; 01-AUG-2007 23:27:42; Dark ; 38.5; 177; 1Zet CMA ; 3.02; 26000;occ; 77; 0;28340
3; -481.3; 01-AUG-2007 23:29:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28340
4; 274.7; 01-AUG-2007 23:41:55; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28341
5; 427.7; 01-AUG-2007 23:44:28; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28341
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 9; 3435.7; 28-AUG-2007 15:22:44; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28722
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13; 4600.1; 28-AUG-2007 20:43:56; Bright; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28725
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13; 5436.8; 30-AUG-2007 09:51:03; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;28747
14; 5525.1; 30-AUG-2007 09:52:31; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28747
15; 5620.3; 30-AUG-2007 09:54:07; Dark ; 42.5; 177; 1Zet CMa ; 3.02; 26000;occ; 85; 0;28747
16; 5716.5; 30-AUG-2007 09:55:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28747
17; 6547.1; 30-AUG-2007 10:09:33; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28747
18; 6622.2; 30-AUG-2007 10:10:48; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28747
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20; 7077.5; 30-AUG-2007 10:18:24; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28747
21; 7357.2; 30-AUG-2007 10:23:03; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28747
22; 7651.6; 30-AUG-2007 10:27:58; Dark ; 38.0; 142; 49Del Cap ; 2.85; 8900;occ; 76; 0;28747

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2; 1896.7; 30-AUG-2007 10:32:39; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28748
3; 2077.3; 30-AUG-2007 10:35:39; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;28748
4; 2486.4; 30-AUG-2007 10:42:29; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;28748
5; 2677.5; 30-AUG-2007 10:45:40; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;28748
6; 2979.0; 30-AUG-2007 10:50:41; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28748
7; 3435.2; 30-AUG-2007 10:58:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28748
8; 4448.6; 30-AUG-2007 11:15:11; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28748
9; 4605.3; 30-AUG-2007 11:17:47; Dark ; 49.5; 170; 27Eps Gem ; 3.00; 9700;occ; 99; 0;28748
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13; 5437.3; 30-AUG-2007 11:31:39; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;28748
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21; 7357.4; 30-AUG-2007 12:03:40; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;28748
22; 7651.7; 30-AUG-2007 12:08:34; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28748

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3; 1896.7; 30-AUG-2007 12:13:15; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28749
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5; 2486.5; 30-AUG-2007 12:23:04; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;28749
6; 2677.6; 30-AUG-2007 12:26:16; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28749
7; 2978.8; 30-AUG-2007 12:31:17; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28749
8; 3435.1; 30-AUG-2007 12:38:53; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28749
9; 4448.6; 30-AUG-2007 12:55:47; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28749
10; 4605.6; 30-AUG-2007 12:58:24; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28749
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16; 5621.8; 30-AUG-2007 13:15:20; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28749
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21; 7078.1; 30-AUG-2007 13:39:36; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28749
22; 7357.9; 30-AUG-2007 13:44:16; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;28749

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3; 1896.6; 30-AUG-2007 13:53:50; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28750

4; 2077.3; 30-AUG-2007 13:56:51; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28750
5; 2486.7; 30-AUG-2007 14:03:40; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28750
6; 2677.6; 30-AUG-2007 14:06:51; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28750
7; 2978.7; 30-AUG-2007 14:11:53; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28750
8; 3435.3; 30-AUG-2007 14:19:29; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28750
9; 4448.9; 30-AUG-2007 14:36:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28750
10; 4605.9; 30-AUG-2007 14:39:00; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28750
11; 4782.3; 30-AUG-2007 14:41:56; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;28750
12; 4906.8; 30-AUG-2007 14:44:01; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28750
13; 5358.4; 30-AUG-2007 14:51:32; Dark ; 51.0; 1; 9Alp CMa ; -1.44; 11000;occ; 102; 0;28750
14; 5438.3; 30-AUG-2007 14:52:52; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;28750
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17; 5718.4; 30-AUG-2007 14:57:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28750
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3; 1805.7; 30-AUG-2007 15:32:55; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28751
4; 1896.6; 30-AUG-2007 15:34:26; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28751
5; 2077.2; 30-AUG-2007 15:37:27; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;28751
6; 2486.7; 30-AUG-2007 15:44:16; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;28751
7; 2677.6; 30-AUG-2007 15:47:27; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28751
8; 2978.7; 30-AUG-2007 15:52:28; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28751
9; 3435.3; 30-AUG-2007 16:00:05; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28751
10; 4449.0; 30-AUG-2007 16:16:59; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28751
11; 4606.1; 30-AUG-2007 16:19:36; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28751
12; 4782.8; 30-AUG-2007 16:22:33; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;28751
13; 4907.1; 30-AUG-2007 16:24:37; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;28751
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5; 2077.1; 30-AUG-2007 17:18:03; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28752
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7; 2677.6; 30-AUG-2007 17:28:03; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;28752
8; 2978.5; 30-AUG-2007 17:33:04; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28752
9; 3435.2; 30-AUG-2007 17:40:41; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28752
10; 4449.2; 30-AUG-2007 17:57:35; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28752
11; 4606.4; 30-AUG-2007 18:00:12; Dark ; 47.0; 170; 27Eps Gem ; 3.00; 9700;occ; 94; 0;28752
12; 4783.1; 30-AUG-2007 18:03:09; Dark ; 49.0; 44; 24Gam Gem ; 1.93; 11000;occ; 98; 0;28752
13; 4907.4; 30-AUG-2007 18:05:13; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28752
14; 5359.6; 30-AUG-2007 18:12:45; Dark ; 51.5; 1; 9Alp CMa ; -1.44; 11000;occ; 103; 0;28752
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6; 2077.0; 30-AUG-2007 18:58:39; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28753
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8; 2677.6; 30-AUG-2007 19:08:39; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28753
9; 2978.3; 30-AUG-2007 19:13:40; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28753
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13; 4783.3; 30-AUG-2007 19:43:45; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28753
14; 4907.6; 30-AUG-2007 19:45:49; Dark ; 48.0; 8; 10Alp CMi ; 0.40; 6500;occ; 96; 0;28753
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17; 5528.0; 30-AUG-2007 19:56:10; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;28753
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21; 6625.9; 30-AUG-2007 20:14:28; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28753
22; 6983.9; 30-AUG-2007 20:20:26; Dark ; 8.0; 84; Alp Phe ; 2.40; 4500;occ; 16; 0;28753
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7; 949.7; 31-AUG-2007 01:22:15; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;28757
8; 1044.4; 31-AUG-2007 01:23:50; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;28757
9; 1323.9; 31-AUG-2007 01:28:29; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28757
10; 1616.8; 31-AUG-2007 01:33:22; Dark ; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;28757
11; 1805.9; 31-AUG-2007 01:36:31; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28757
12; 1896.3; 31-AUG-2007 01:38:02; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28757
13; 2076.7; 31-AUG-2007 01:41:02; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28757
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4; 2076.3; 31-AUG-2007 15:05:49; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28765
5; 2487.1; 31-AUG-2007 15:12:40; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;28765

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