

GOMOS Daily Report 29-SEP-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	01OCT2007 13:44:55
Data source version	GOMOS/5.00
Start time of products	29-09-2007 (29SEP2007 00:00:00)
Stop time of products	30-09-2007 (30SEP2007 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)

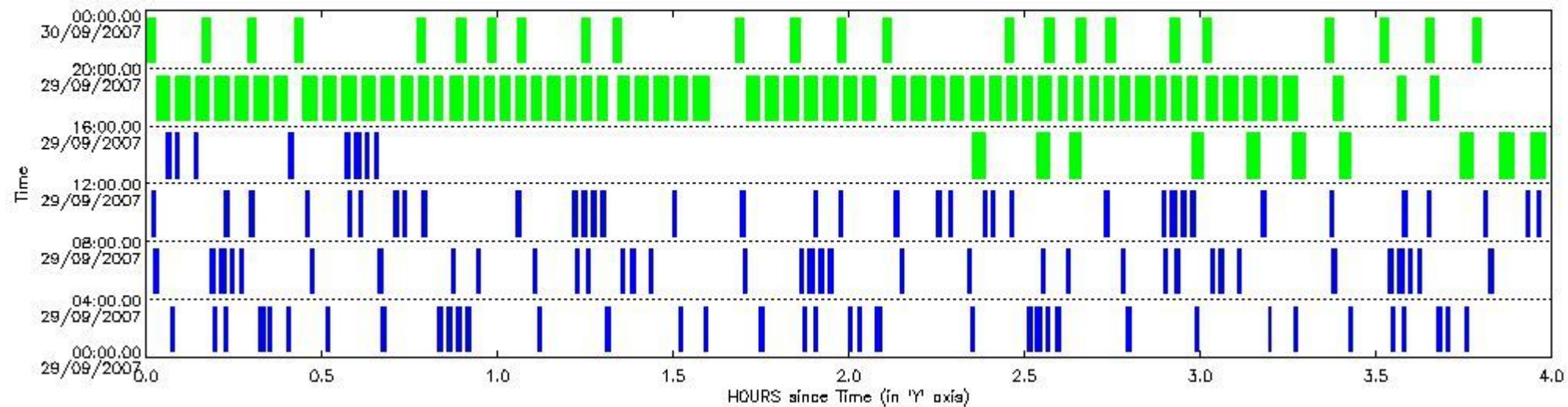
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

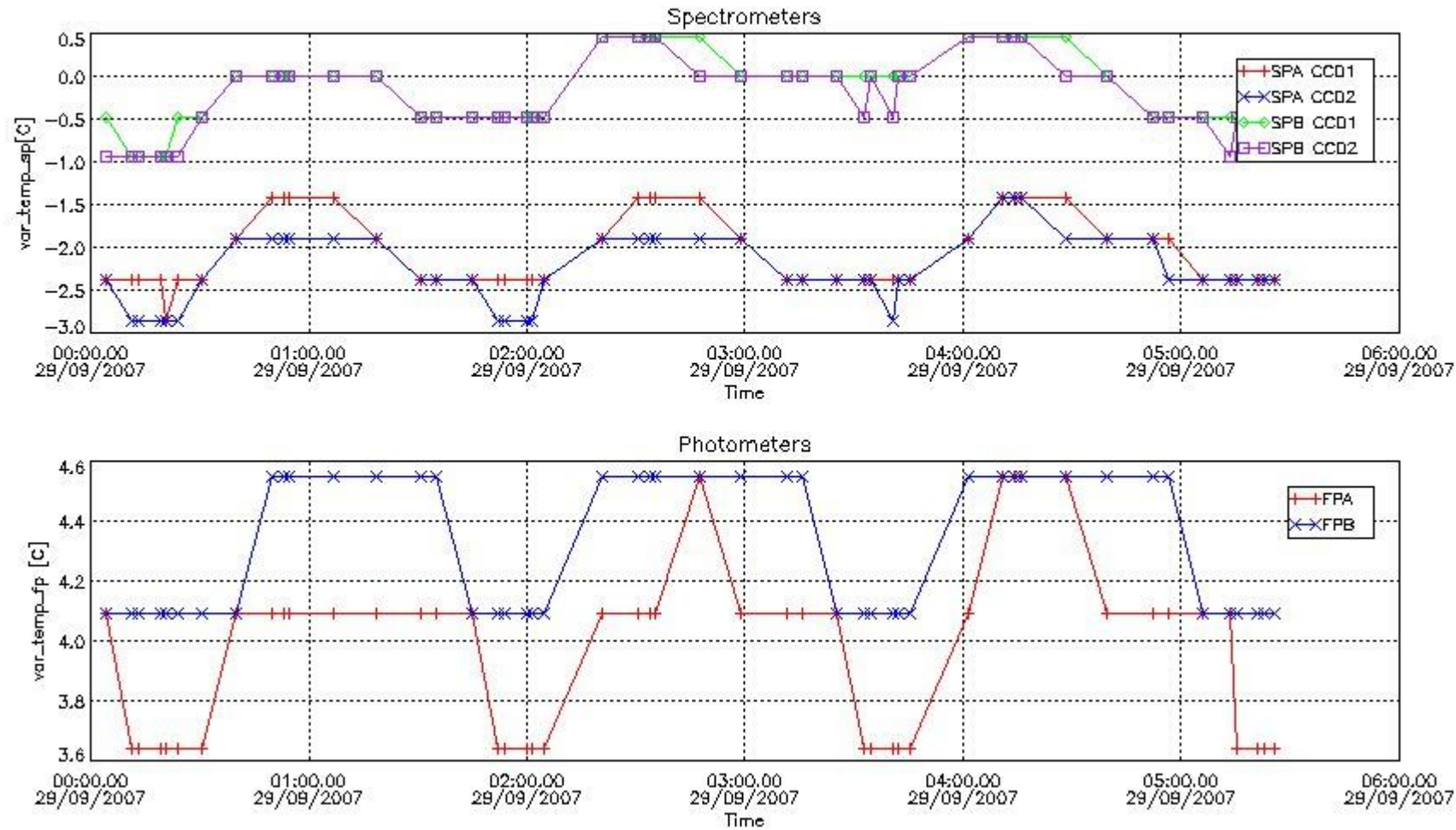
No missing products.

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_1PNPDE20070929_000409_000000362062_00059_29171_2092.N1	29-SEP-2007 00:04:09	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	29171	No
2	GOM_TRA_1PNPDE20070929_001125_000000352062_00059_29171_2093.N1	29-SEP-2007 00:11:25	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29171	No
3	GOM_TRA_1PNPDE20070929_001318_000000342062_00059_29171_2094.N1	29-SEP-2007 00:13:18	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	29171	No
4	GOM_TRA_1PNPDE20070929_001917_000000522062_00059_29171_2095.N1	29-SEP-2007 00:19:17	Bright	52.000	36	50Alp UMa	1.8000	6300.0	104	29171	No
5	GOM_TRA_1PNPDE20070929_002047_000000322062_00059_29171_2096.N1	29-SEP-2007 00:20:47	Bright	32.000	82	48Bet UMa	2.3650	10600.	64	29171	No
6	GOM_TRA_1PNPDE20070929_002358_000000332062_00059_29171_2097.N1	29-SEP-2007 00:23:58	Bright	33.000	174	52Psi UMa	3.0040	4400.0	66	29171	No
7	GOM_TRA_1PNPDE20070929_003037_000000302062_00059_29171_2098.N1	29-SEP-2007 00:30:37	Bright	30.000	166	17Eps Leo	2.9800	6000.0	60	29171	No
8	GOM_TRA_1PNPDE20070929_004004_000000482062_00059_29171_2099.N1	29-SEP-2007 00:40:04	Twilight	48.000	48	30Alp Hya	1.9770	4100.0	96	29171	No
9	GOM_TRA_1PNPDE20070929_004945_000000452062_00059_29171_2234.N1	29-SEP-2007 00:49:45	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	29171	No
10	GOM_TRA_1PNPDE20070929_005303_000000382062_00059_29171_2235.N1	29-SEP-2007 00:53:03	Dark	38.000	46	Del Vel	1.9540	10600.	76	29171	No
11	GOM_TRA_1PNPDE20070929_005438_000000402062_00059_29171_2236.N1	29-SEP-2007 00:54:38	Dark	39.500	41	Eps Car	1.8600	4100.0	79	29171	No
12	GOM_TRA_1PNPDE20070929_010650_000000382062_00060_29172_2237.N1	29-SEP-2007 01:06:50	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	29172	No

13	GOM_TRA_1PNPDE20070929_011827_000000442062_00060_29172_2238.N1	29-SEP-2007 01:18:27	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	29172	No
14	GOM_TRA_1PNPDE20070929_013059_000000272062_00060_29172_2239.N1	29-SEP-2007 01:30:59	Bright	27.000	90	54Alp Peg	2.4870	11000.	54	29172	No
15	GOM_TRA_1PNPDE20070929_013515_000000362062_00060_29172_2240.N1	29-SEP-2007 01:35:15	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	29172	No
16	GOM_TRA_1PNPDE20070929_014445_000000362062_00060_29172_2241.N1	29-SEP-2007 01:44:45	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	29172	No
17	GOM_TRA_1PNPDE20070929_015201_000000362062_00060_29172_2242.N1	29-SEP-2007 01:52:01	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29172	No
18	GOM_TRA_1PNPDE20070929_015354_000000372062_00060_29172_2243.N1	29-SEP-2007 01:53:54	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	29172	No
19	GOM_TRA_1PNPDE20070929_015953_000000372062_00060_29172_2244.N1	29-SEP-2007 01:59:53	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29172	No
20	GOM_TRA_1PNPDE20070929_020123_000000442062_00060_29172_2245.N1	29-SEP-2007 02:01:23	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	29172	No
21	GOM_TRA_1PNPDE20070929_020434_000000522062_00060_29172_2246.N1	29-SEP-2007 02:04:34	Bright	51.500	174	52Psi UMa	3.0040	4400.0	103	29172	No
22	GOM_TRA_1PNPDE20070929_022040_000000422062_00060_29172_2366.N1	29-SEP-2007 02:20:40	Twilight	42.000	48	30Alp Hya	1.9770	4100.0	84	29172	No
23	GOM_TRA_1PNPDE20070929_023021_000000512062_00060_29172_2367.N1	29-SEP-2007 02:30:21	Dark	50.500	65	Lam Vel	2.2040	4400.0	101	29172	No
24	GOM_TRA_1PNPDE20070929_023339_000000372062_00060_29172_2368.N1	29-SEP-2007 02:33:39	Dark	37.000	46	Del Vel	1.9540	10600.	74	29172	No
25	GOM_TRA_1PNPDE20070929_023515_000000462062_00060_29172_2369.N1	29-SEP-2007 02:35:15	Dark	46.000	41	Eps Car	1.8600	4100.0	92	29172	No
26	GOM_TRA_1PNPDE20070929_024726_000000392062_00061_29173_2370.N1	29-SEP-2007 02:47:26	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29173	No
27	GOM_TRA_1PNPDE20070929_025903_000000432062_00061_29173_2371.N1	29-SEP-2007 02:59:03	Straylight	42.500	18	24Alp PsA	1.1660	9700.0	85	29173	No
28	GOM_TRA_1PNPDE20070929_031134_000000272062_00061_29173_2372.N1	29-SEP-2007 03:11:34	Bright	27.000	90	54Alp Peg	2.4870	11000.	54	29173	No
29	GOM_TRA_1PNPDE20070929_031551_000000352062_00061_29173_2373.N1	29-SEP-2007 03:15:51	Bright	35.000	164	44Eta Peg	2.9480	5400.0	70	29173	No
30	GOM_TRA_1PNPDE20070929_032521_000000342062_00061_29173_2374.N1	29-SEP-2007 03:25:21	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	29173	No
31	GOM_TRA_1PNPDE20070929_033237_000000372062_00061_29173_2375.N1	29-SEP-2007 03:32:37	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29173	No
32	GOM_TRA_1PNPDE20070929_033430_000000372062_00061_29173_2508.N1	29-SEP-2007 03:34:30	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29173	No
33	GOM_TRA_1PNPDE20070929_034029_000000372062_00061_29173_2509.N1	29-SEP-2007 03:40:29	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29173	No
34	GOM_TRA_1PNPDE20070929_034159_000000352062_00061_29173_2510.N1	29-SEP-2007 03:41:59	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	29173	No
35	GOM_TRA_1PNPDE20070929_034510_000000332062_00061_29173_2511.N1	29-SEP-2007 03:45:10	Bright	33.000	174	52Psi UMa	3.0040	4400.0	66	29173	No
36	GOM_TRA_1PNPDE20070929_040117_000000442062_00061_29173_2512.N1	29-SEP-2007 04:01:17	Twilight	43.500	48	30Alp Hya	1.9770	4100.0	87	29173	No
37	GOM_TRA_1PNPDE20070929_041058_000000412062_00061_29173_2513.N1	29-SEP-2007 04:10:58	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	29173	No
38	GOM_TRA_1PNPDE20070929_041416_000000422062_00061_29173_2514.N1	29-SEP-2007 04:14:16	Dark	41.500	46	Del Vel	1.9540	10600.	83	29173	No
39	GOM_TRA_1PNPDE20070929_041551_000000412062_00061_29173_2515.N1	29-SEP-2007 04:15:51	Dark	40.500	41	Eps Car	1.8600	4100.0	81	29173	No
40	GOM_TRA_1PNPDE20070929_042803_000000382062_00062_29174_2516.N1	29-SEP-2007 04:28:03	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	29174	No
41	GOM_TRA_1PNPDE20070929_043939_000000382062_00062_29174_2517.N1	29-SEP-2007 04:39:39	Straylight	37.500	18	24Alp PsA	1.1660	9700.0	75	29174	No
42	GOM_TRA_1PNPDE20070929_045210_000000372062_00062_29174_2518.N1	29-SEP-2007 04:52:10	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	29174	No
43	GOM_TRA_1PNPDE20070929_045627_000000362062_00062_29174_2519.N1	29-SEP-2007 04:56:27	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	29174	No
44	GOM_TRA_1PNPDE20070929_050557_000000362062_00062_29174_2520.N1	29-SEP-2007 05:05:57	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	29174	No
45	GOM_TRA_1PNPDE20070929_051313_000000362062_00062_29174_2521.N1	29-SEP-2007 05:13:13	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29174	No
46	GOM_TRA_1PNPDE20070929_051506_000000362062_00062_29174_2522.N1	29-SEP-2007 05:15:06	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	29174	No
47	GOM_TRA_1PNPDE20070929_052105_000000372062_00062_29174_2687.N1	29-SEP-2007 05:21:05	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29174	No
48	GOM_TRA_1PNPDE20070929_052235_000000522062_00062_29174_2688.N1	29-SEP-2007 05:22:35	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29174	No
49	GOM_TRA_1PNPDE20070929_052547_000000322062_00062_29174_2689.N1	29-SEP-2007 05:25:47	Bright	32.000	174	52Psi UMa	3.0040	4400.0	64	29174	No

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



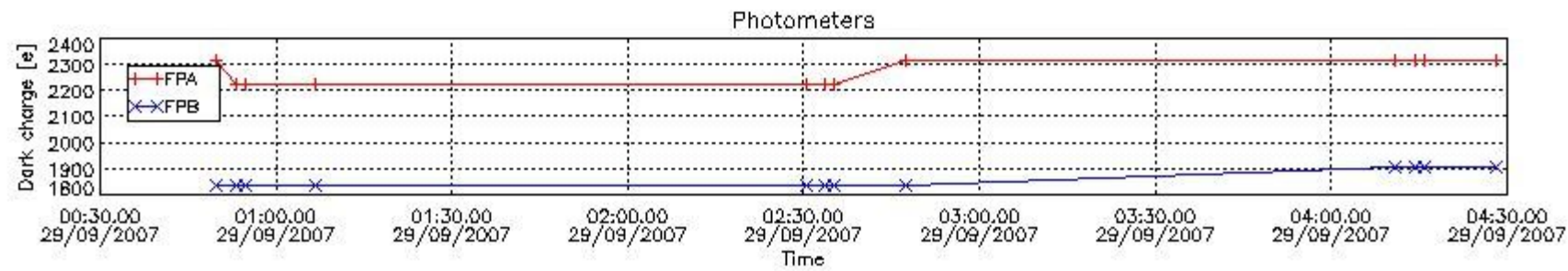
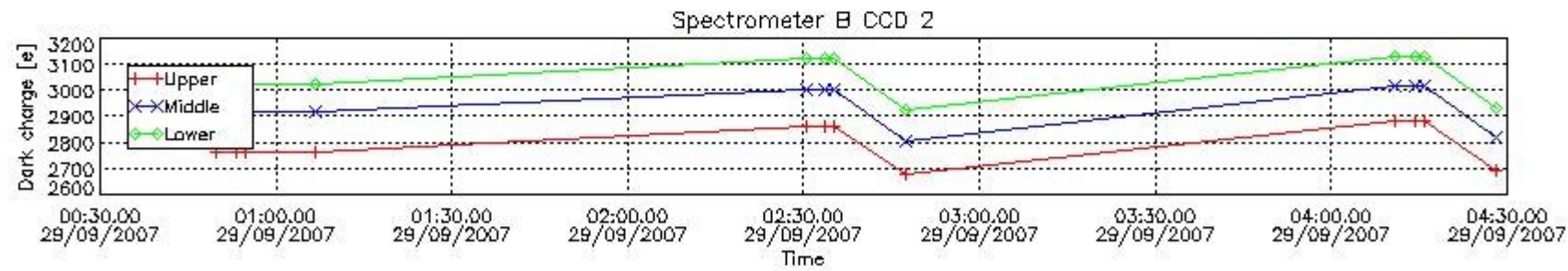
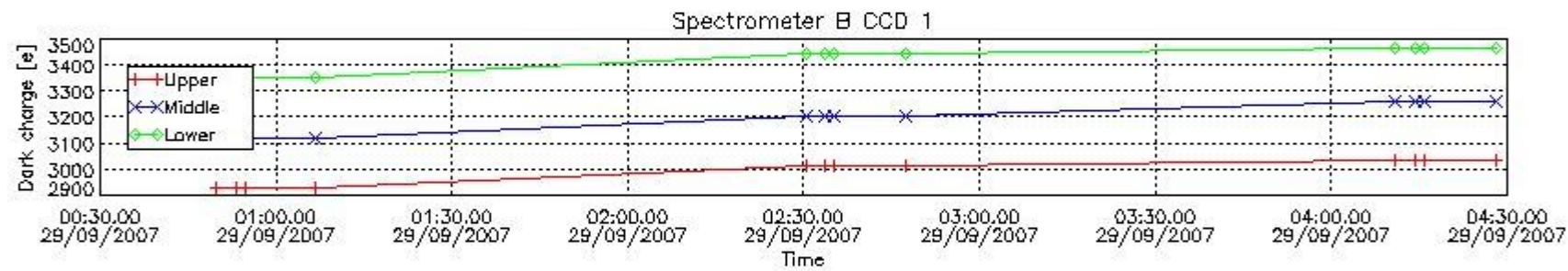
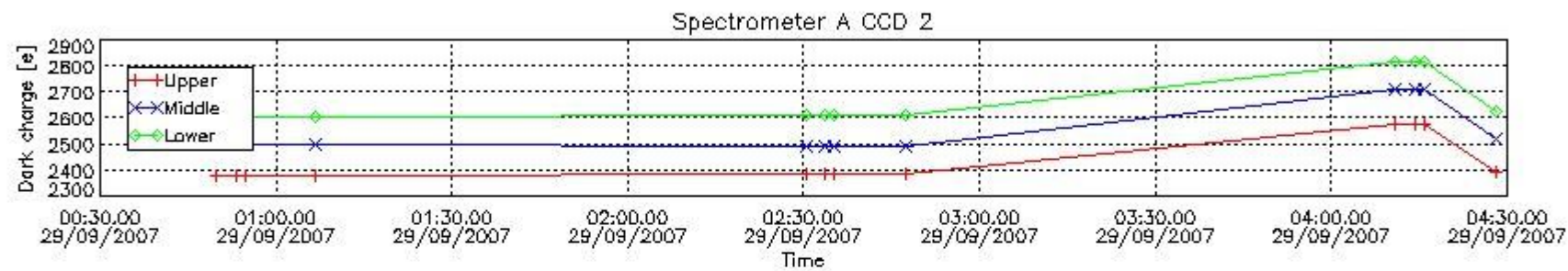
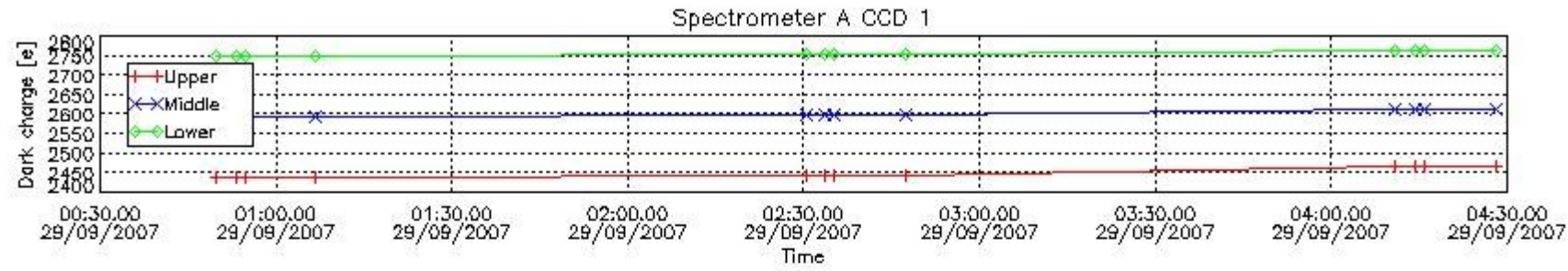
4. Overview of dark signal processing per product

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



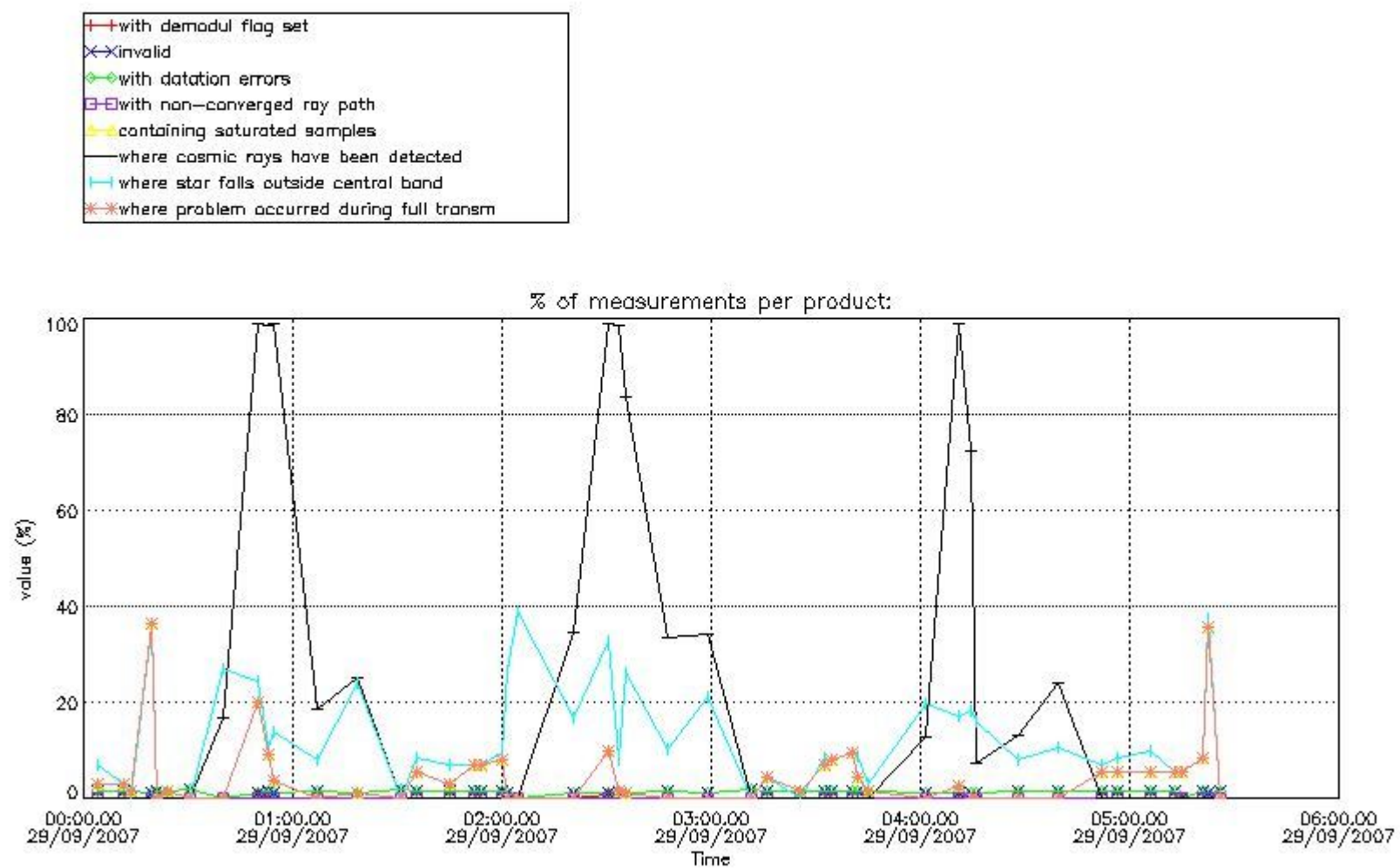
5. Demodulation flag and quality information monitoring

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.

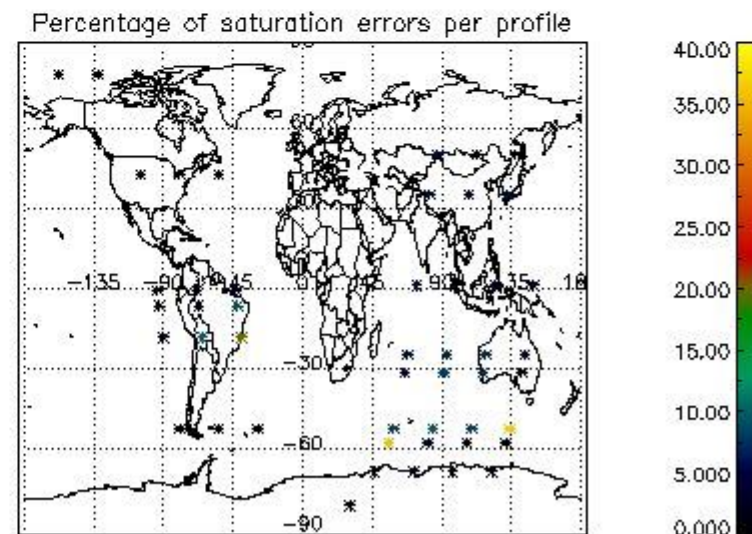
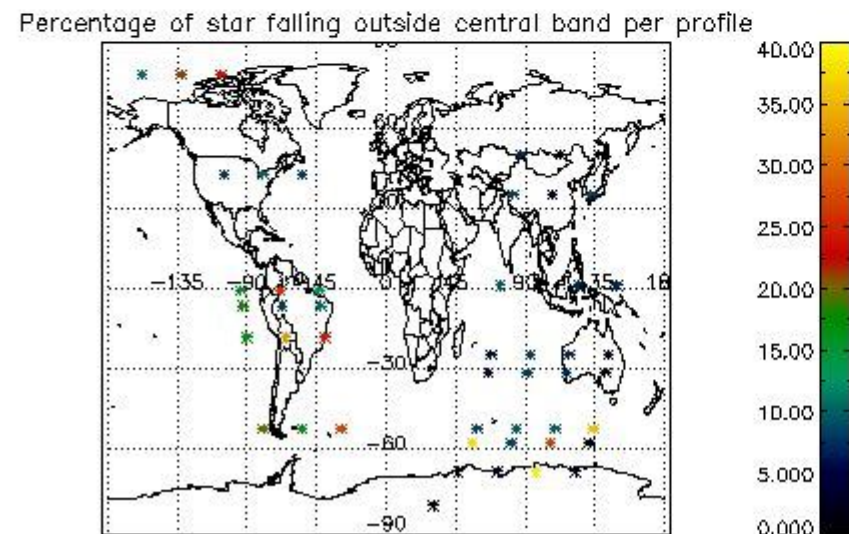
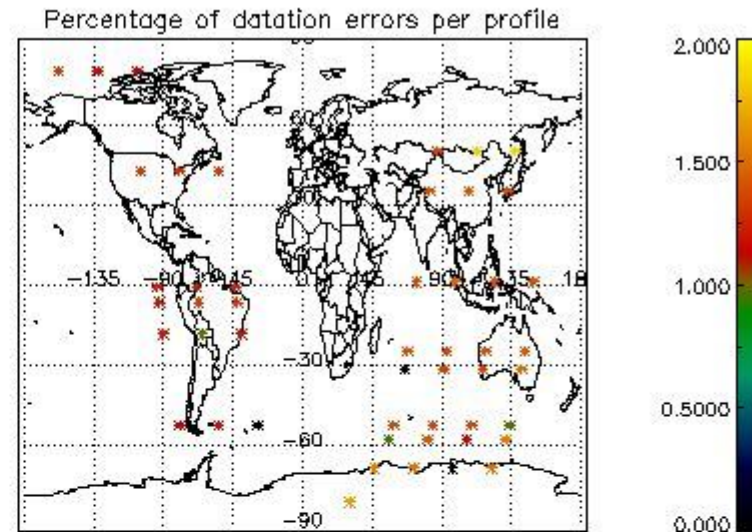
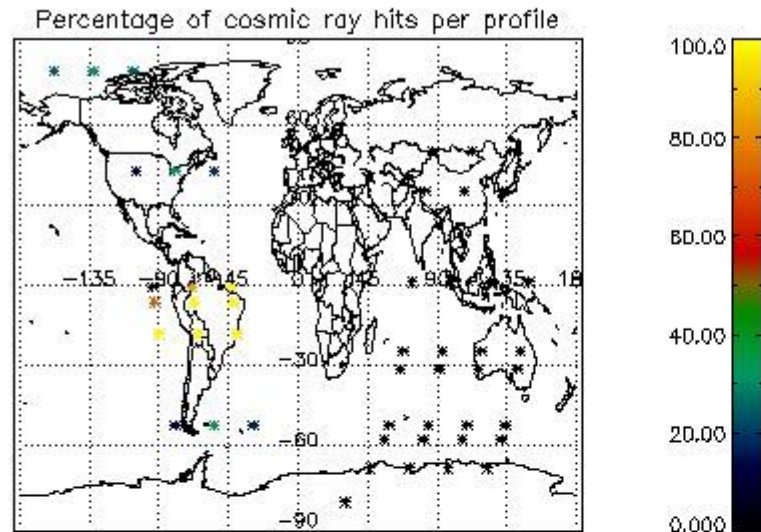
5.1 Percentage of products during reporting period with:

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)



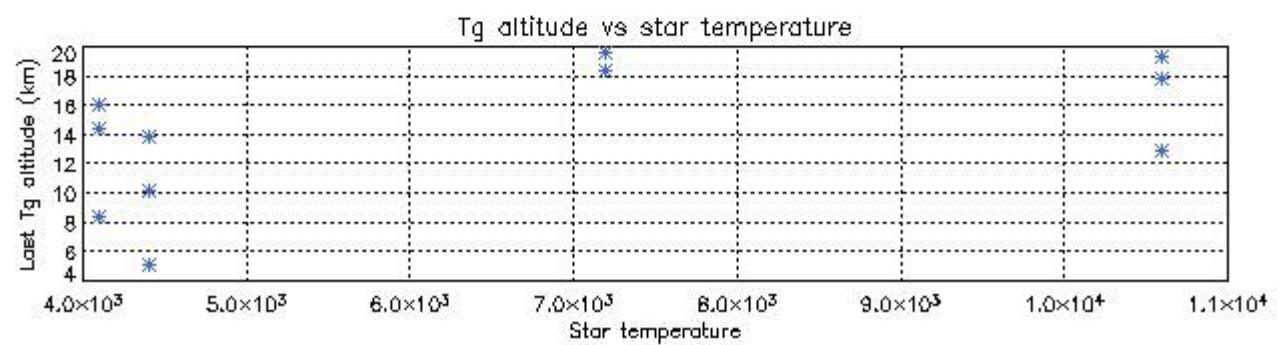
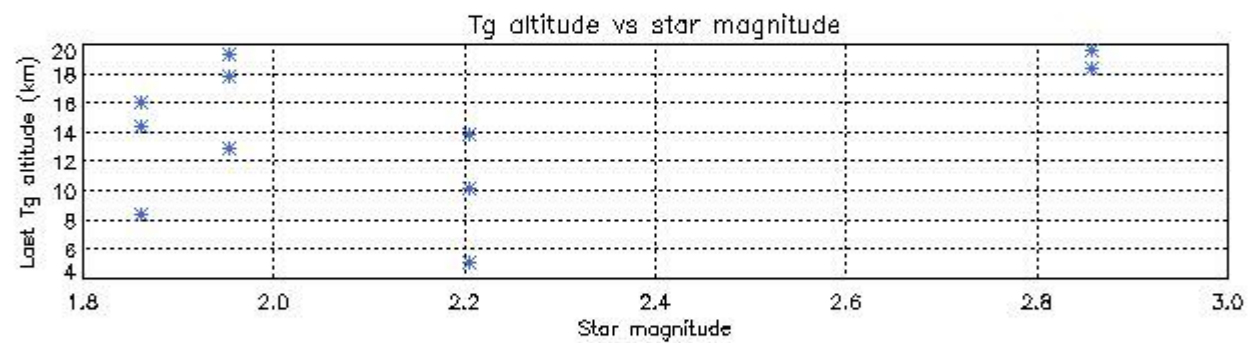
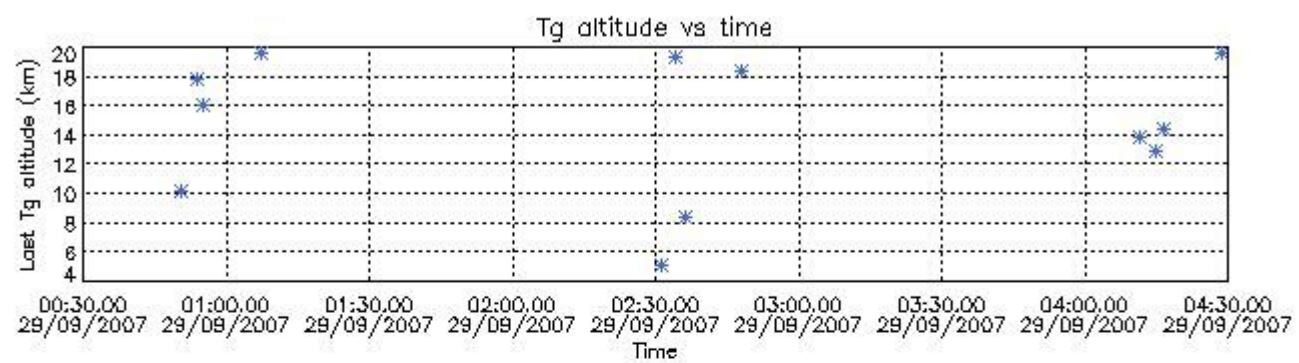
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.612	21.794	10.945
St. deviation:	4.7882	9.4239	2.7079
Maximum:	19.637	45.636	13.154
Minimum:	5.0467	3.4837	7.9238
Number of data:	12.000	31.000	3.0000

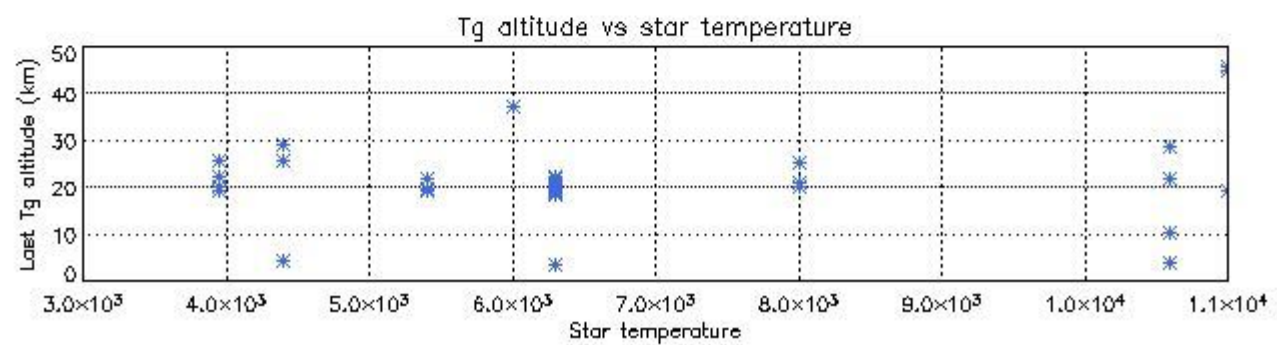
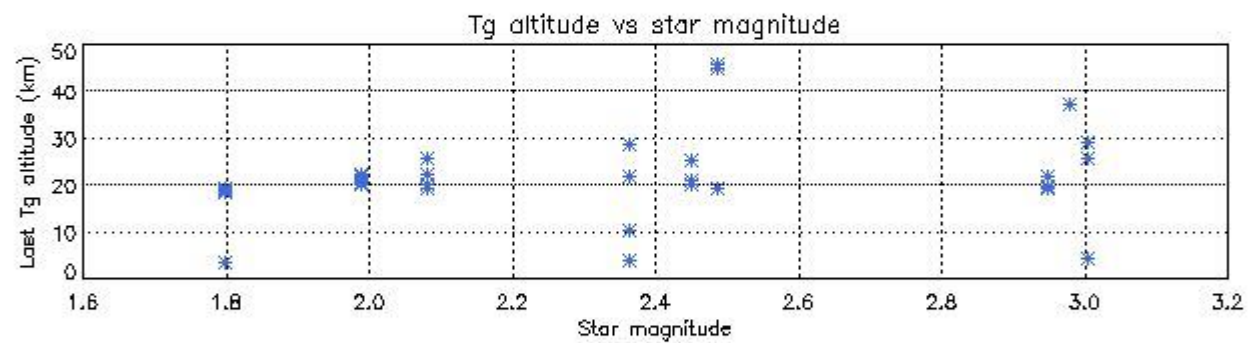
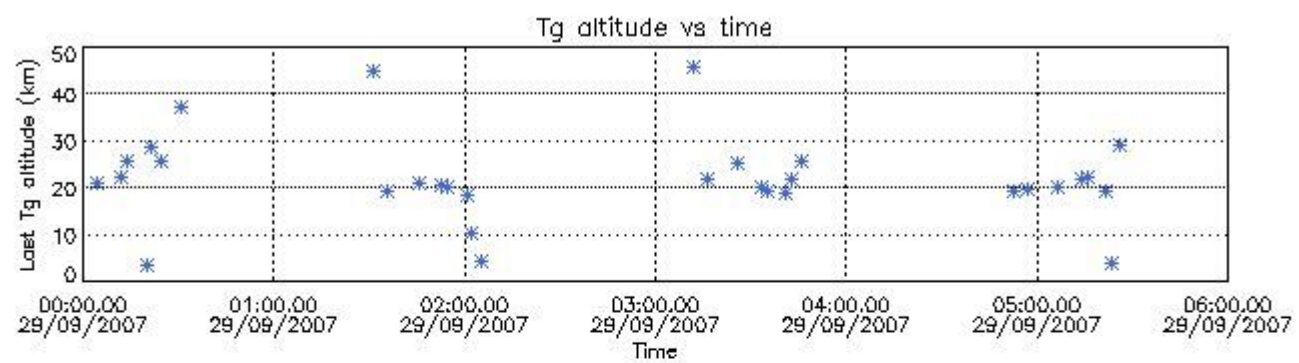
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



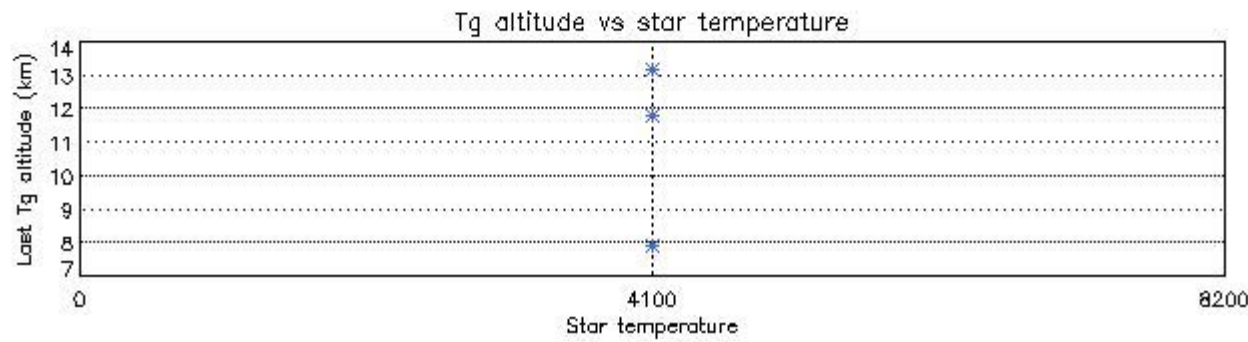
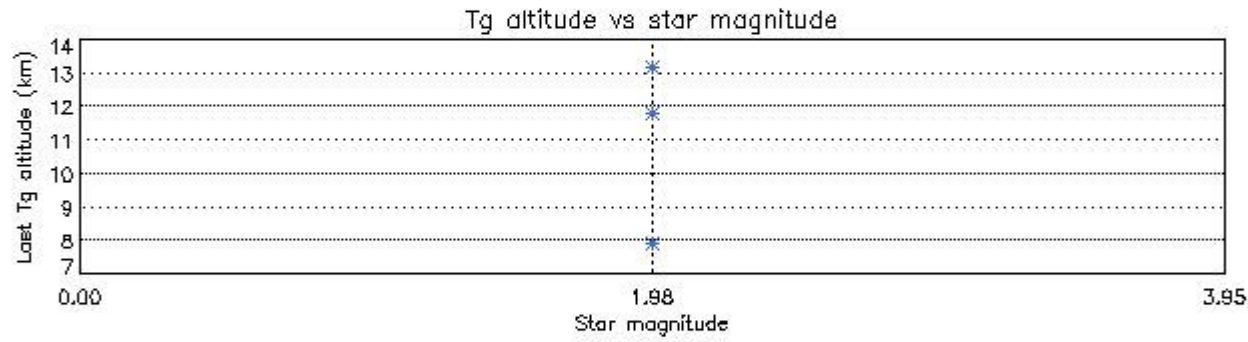
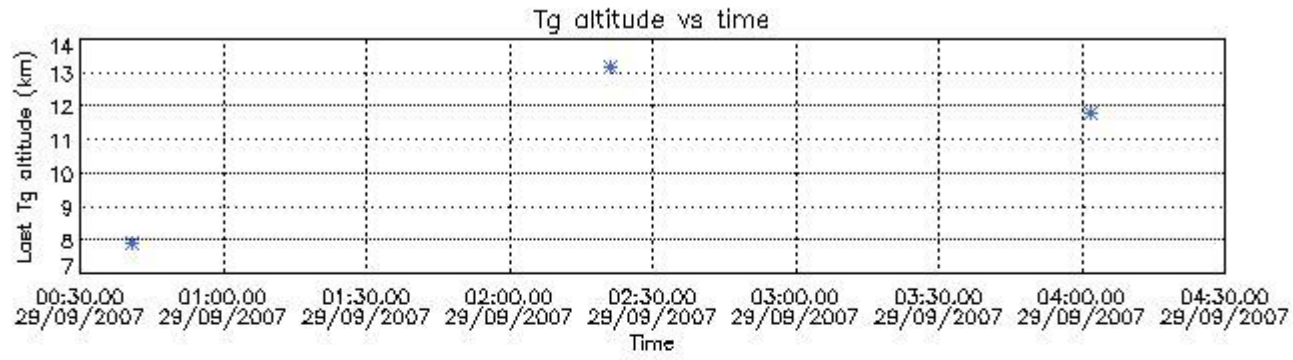
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

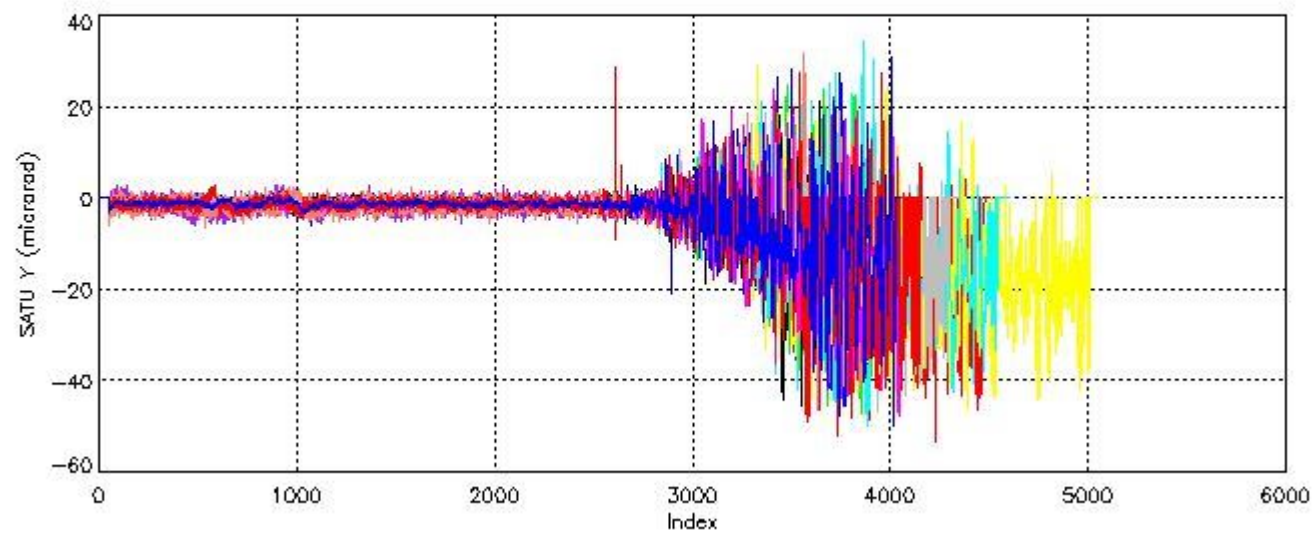
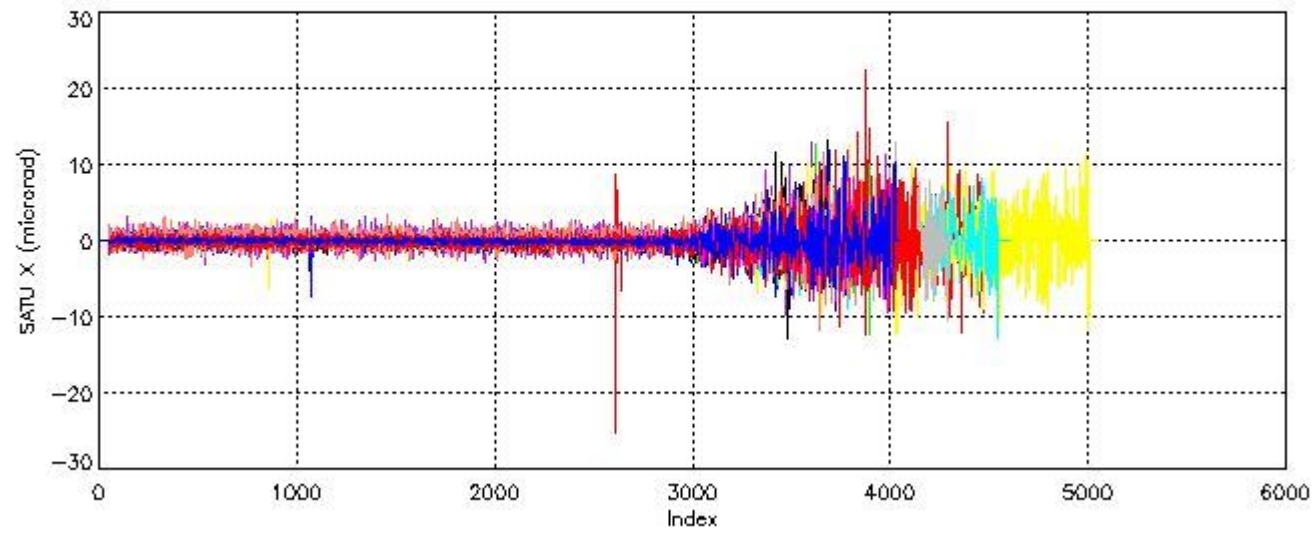


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.0015005	-1.3295	-0.060551	-1.3004
St. deviation:	0.45484	0.88887	0.71198	1.1189
Maximum:	4.6000	2.8000	4.7000	4.4000
Minimum:	-3.3000	-6.5000	-4.2000	-6.7000

Number of data:	10250.	10250.	25100.	25100.
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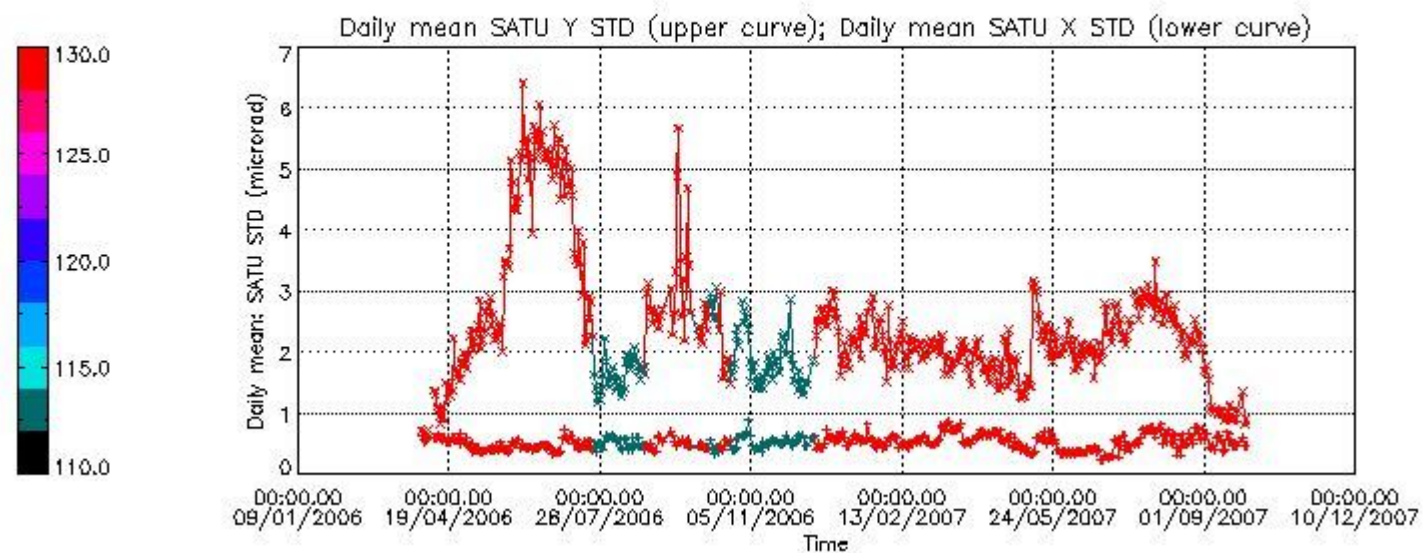
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

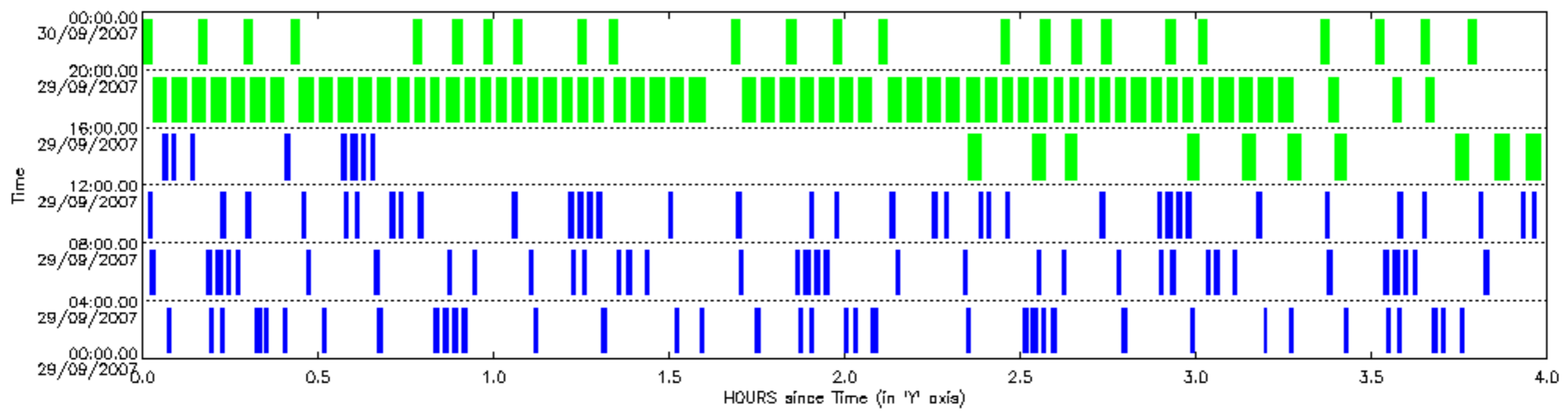
Lower curve: STD of SATU X axis

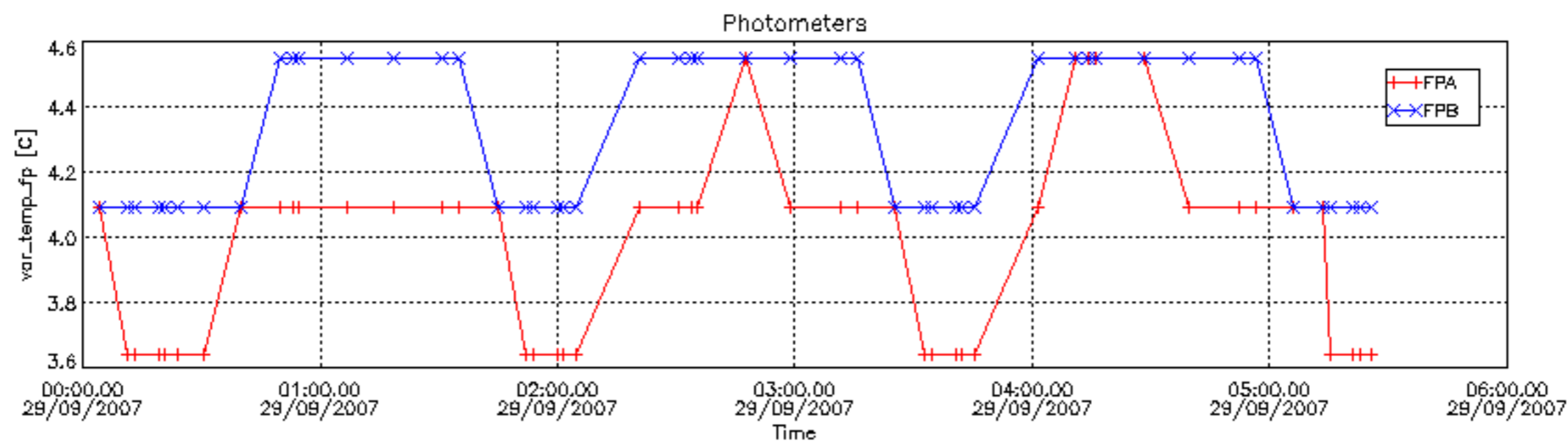
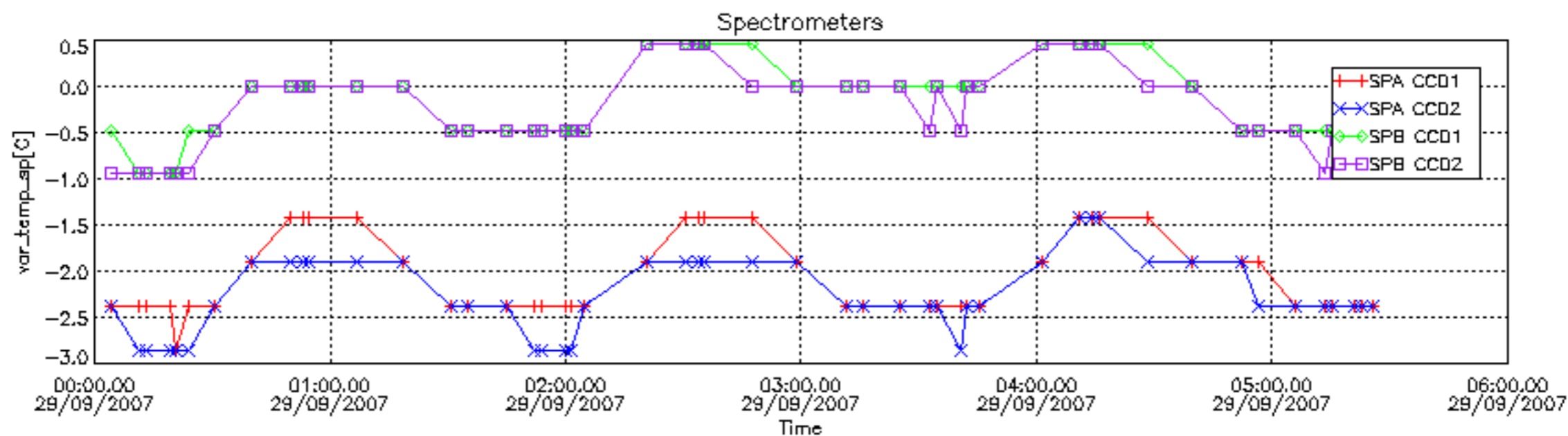


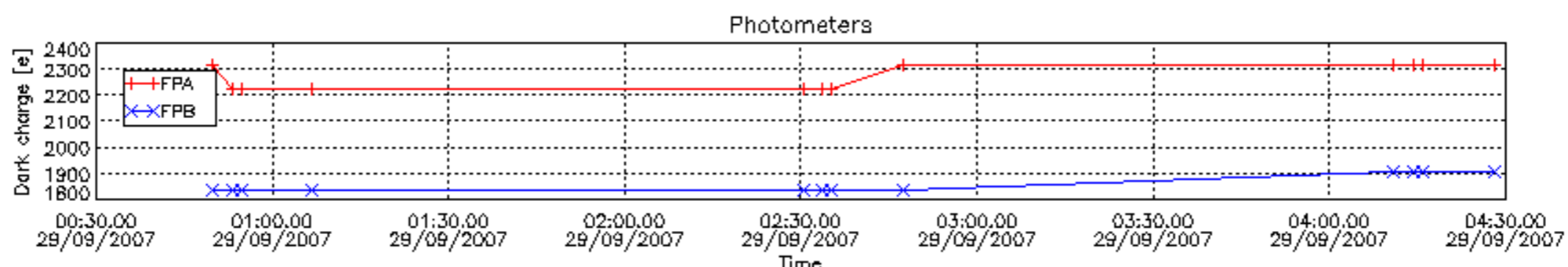
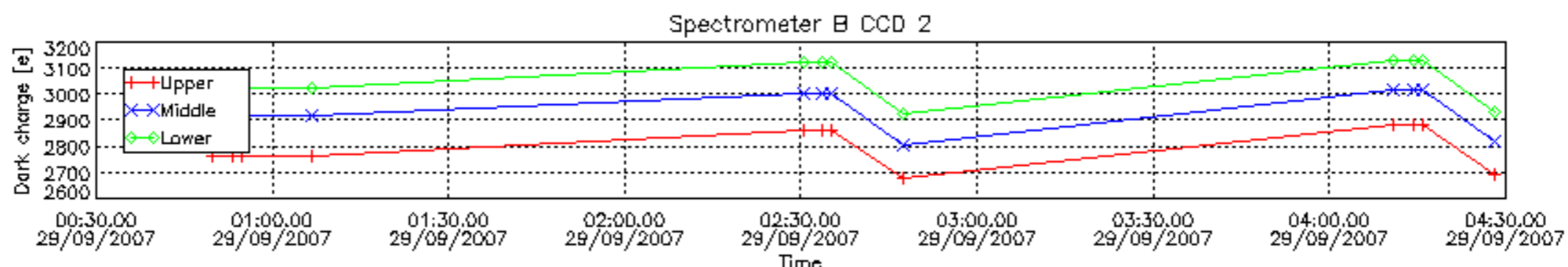
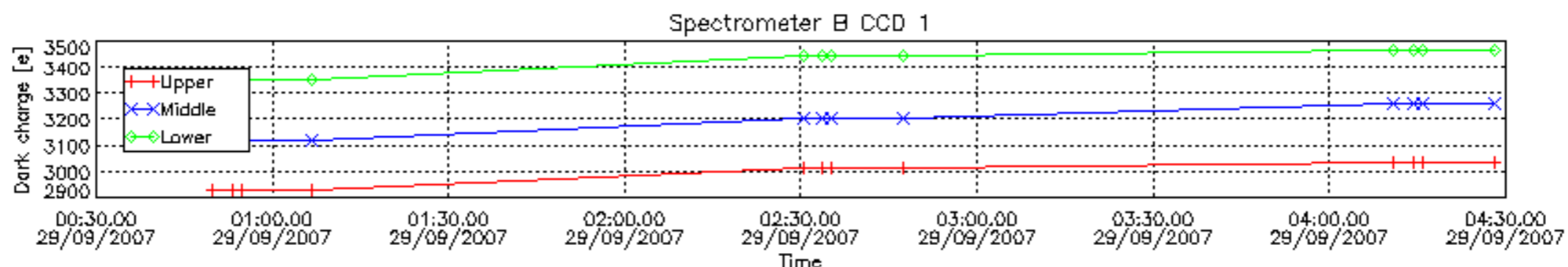
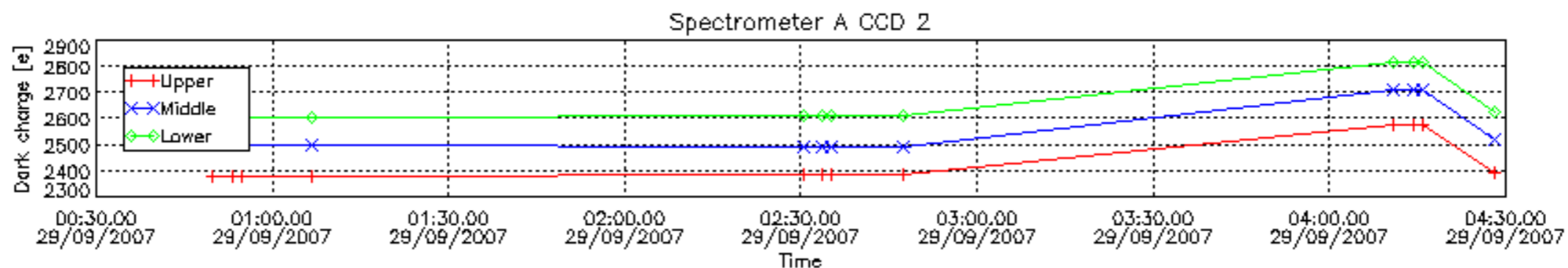
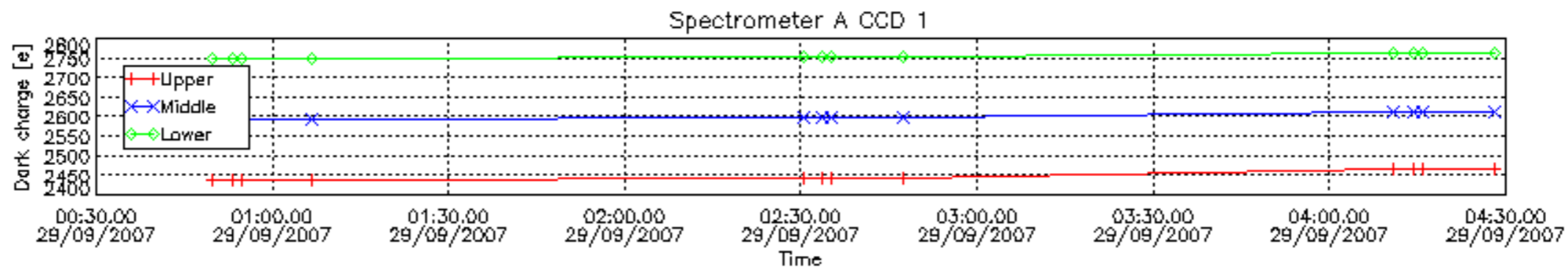
8. Auxiliary Data Files used for the production reported in section 2.4

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.

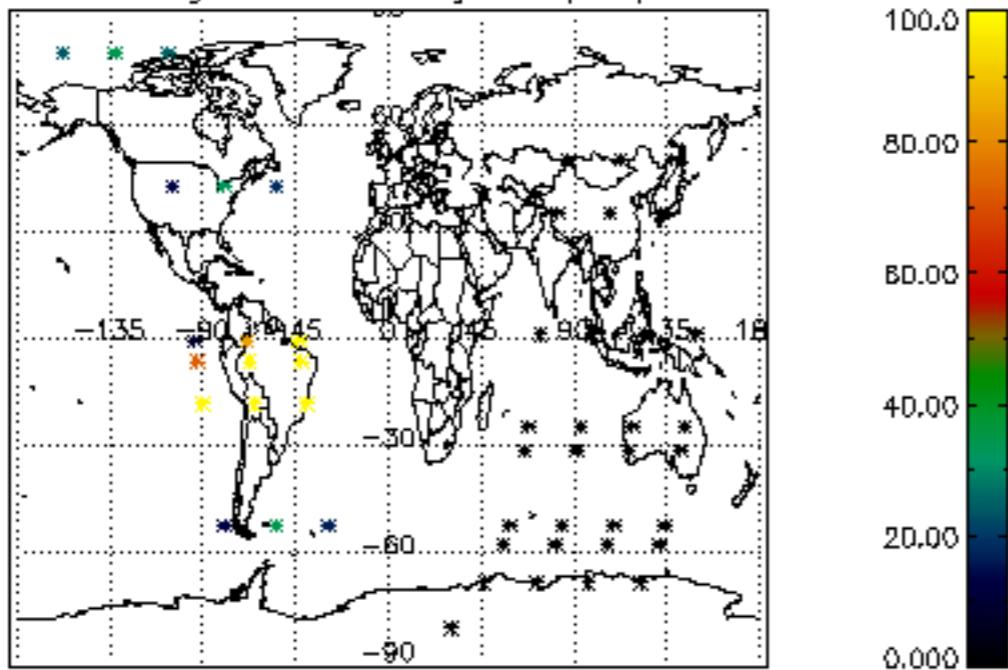
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-SEP-2007 00:04:09
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070928_104909_20070927_000000_20100101_000000	1	29-SEP-2007 00:04:09
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-SEP-2007 00:04:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-SEP-2007 00:04:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-SEP-2007 00:04:09
ECMWF_FILE	AUX_ECF_AXNECM20070928_060114_20070928_210000_20070929_090000	1	29-SEP-2007 00:04:09
ECMWF_FILE	AUX_ECF_AXNECM20070928_180115_20070929_030000_20070929_150000	32	29-SEP-2007 03:34:30
OPTIONAL_ECMWF_FILE	MISSING	1	29-SEP-2007 00:04:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070928_225609_000060572062_00058_29170_4250.N1	1	29-SEP-2007 00:04:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070929_004225_000051012062_00059_29171_4251.N1	22	29-SEP-2007 02:20:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070929_021244_000044632062_00060_29172_4252.N1	32	29-SEP-2007 03:34:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070929_033226_000057382062_00061_29173_4253.N1	47	29-SEP-2007 05:21:05



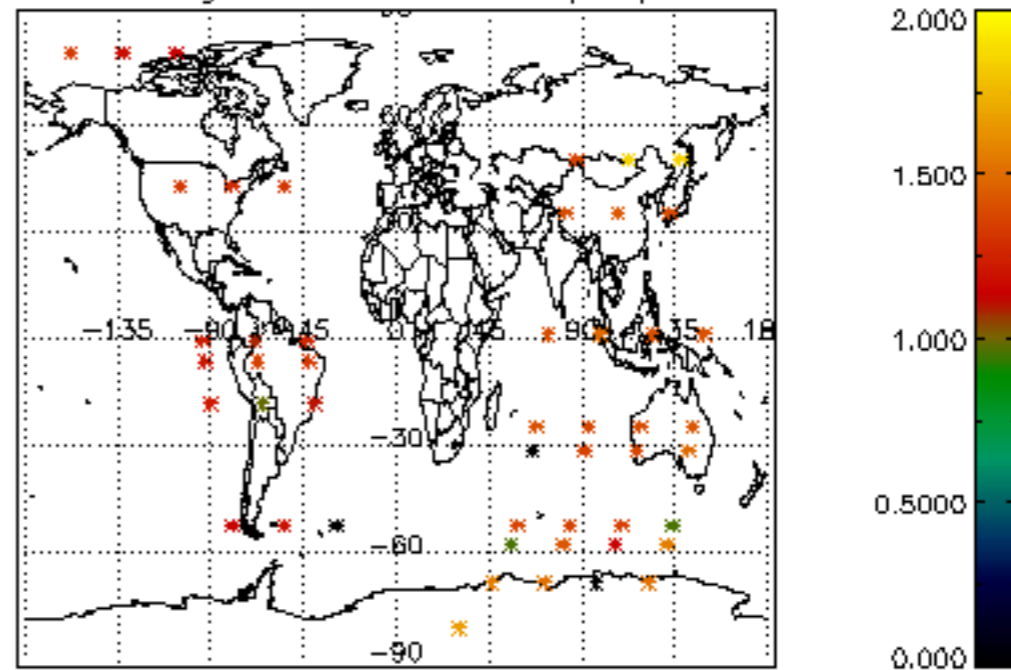




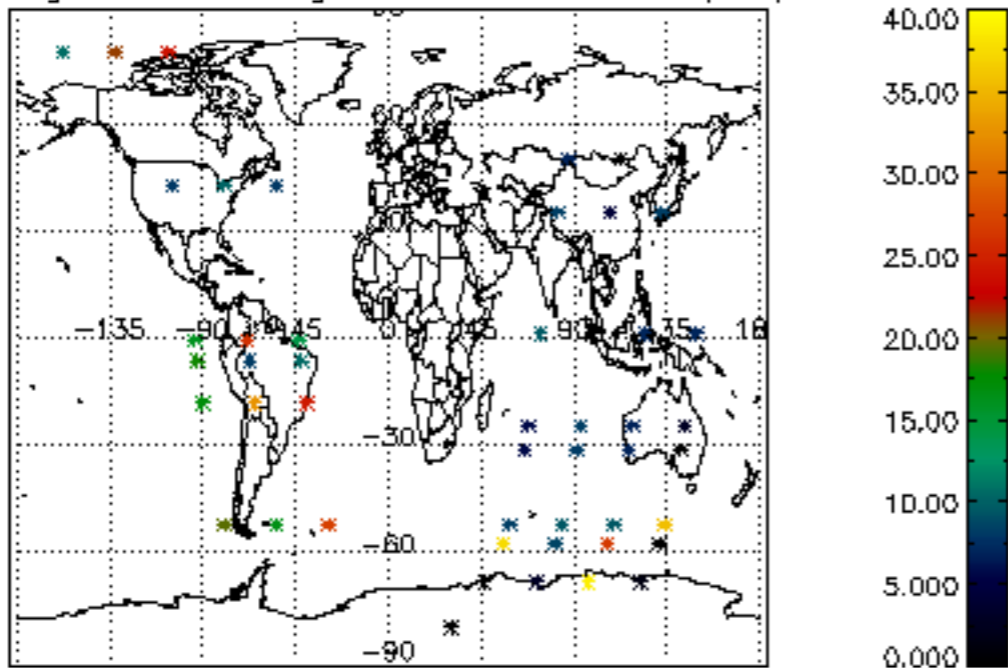
Percentage of cosmic ray hits per profile



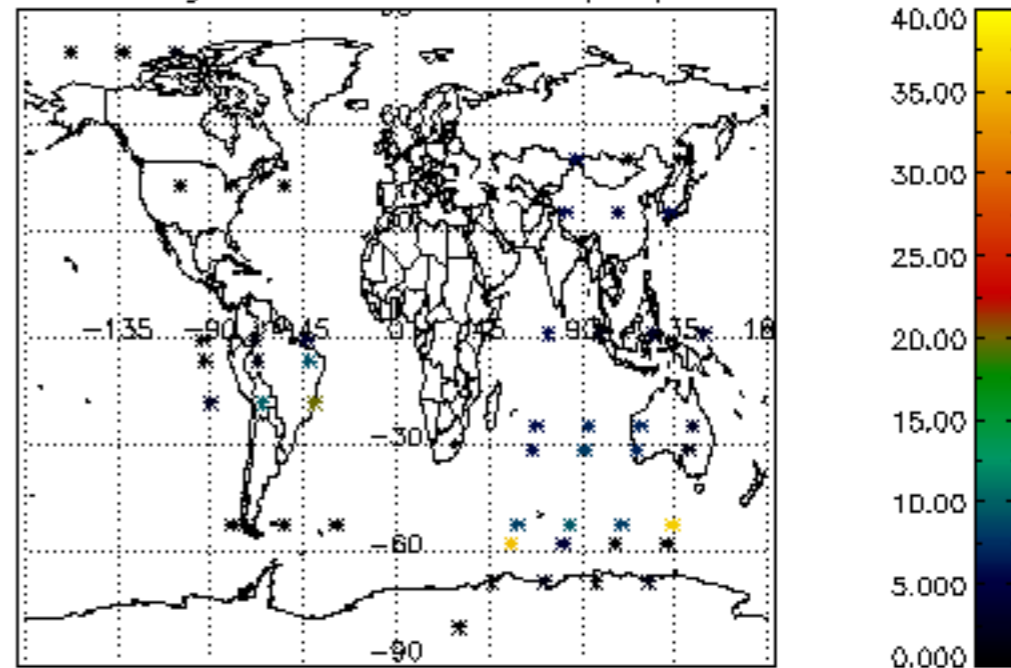
Percentage of datation errors per profile



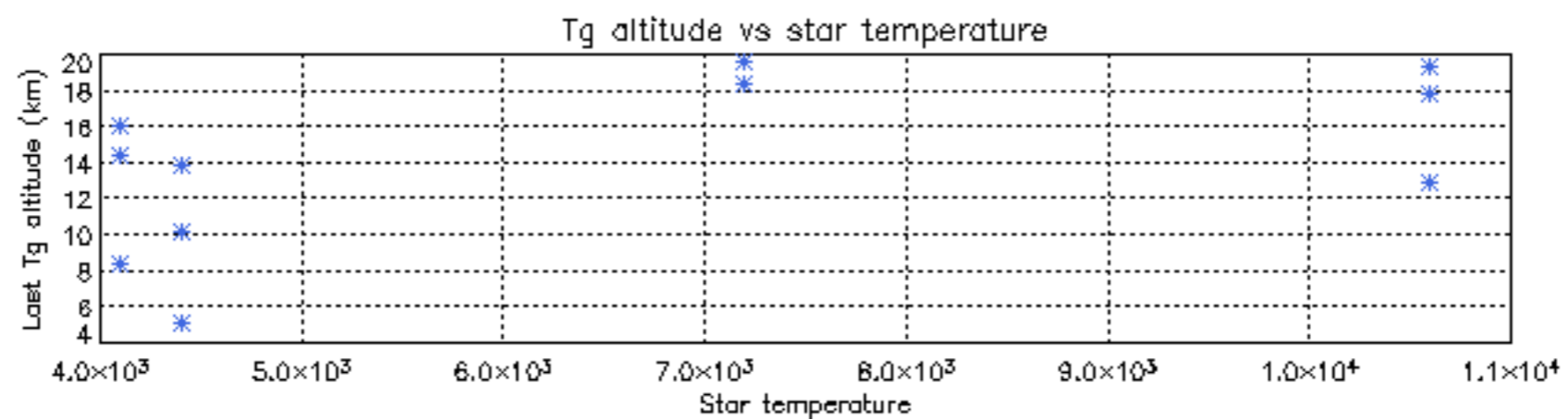
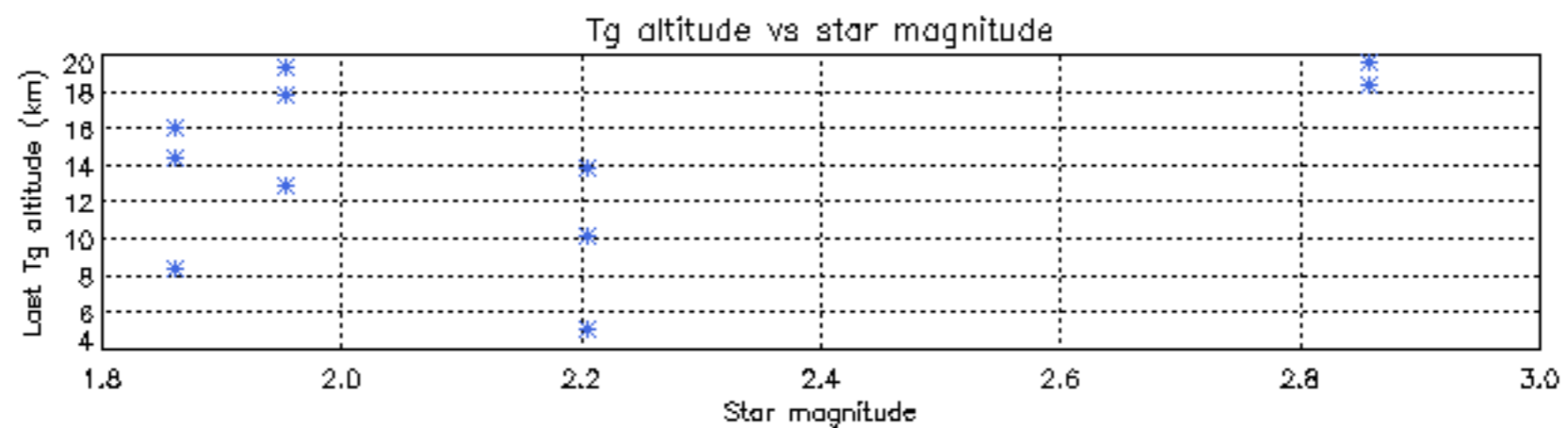
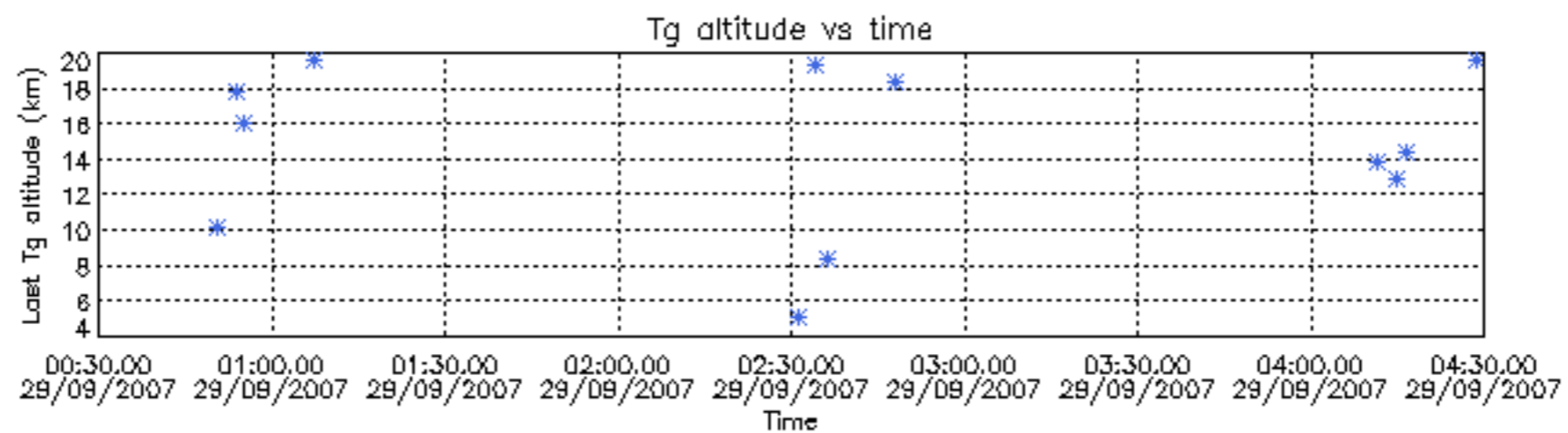
Percentage of star falling outside central band per profile



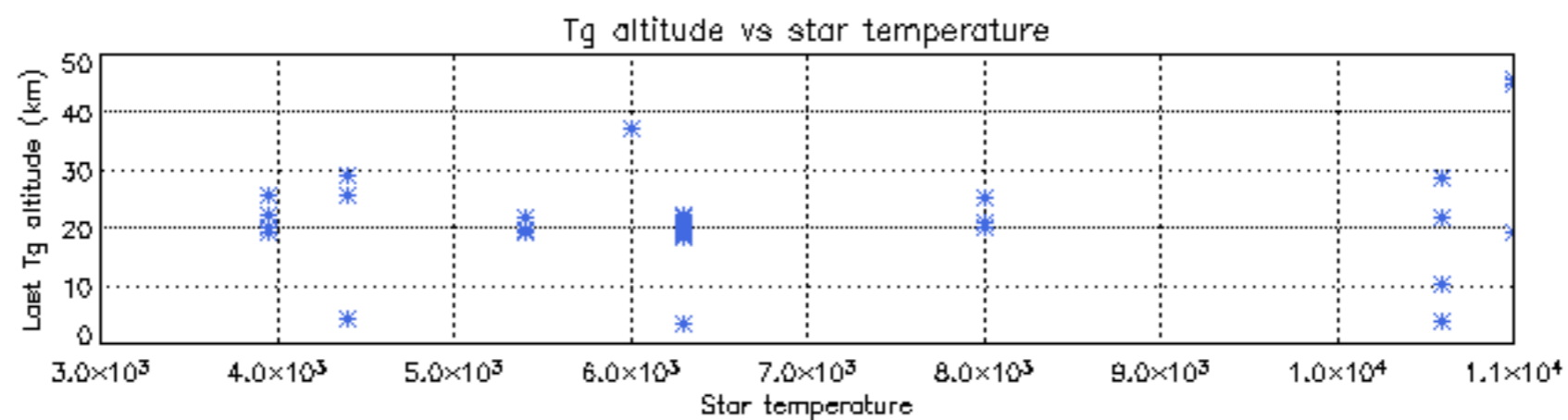
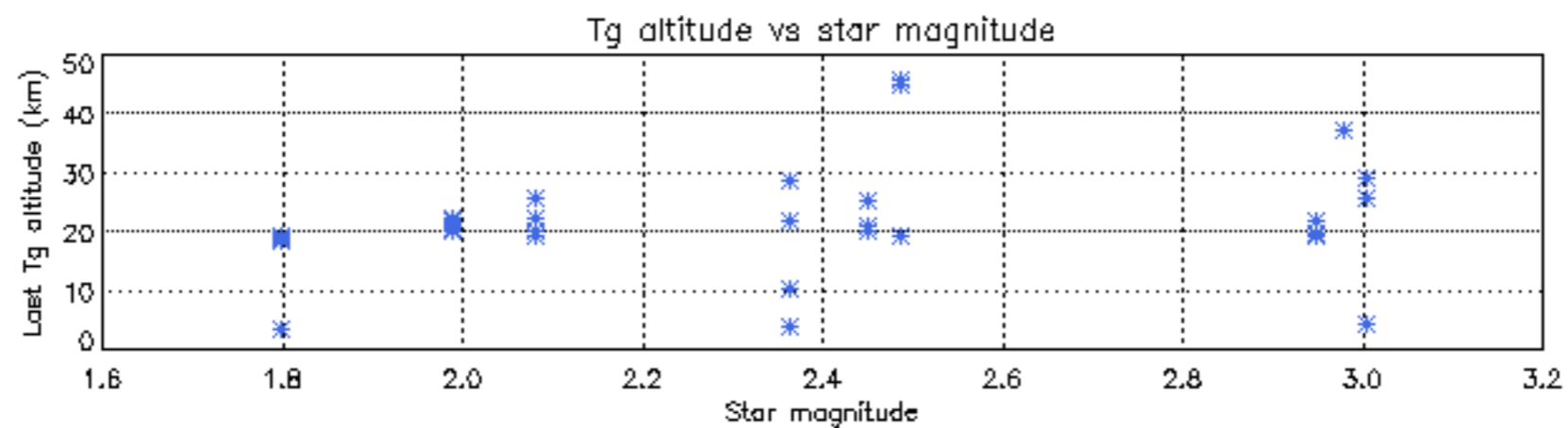
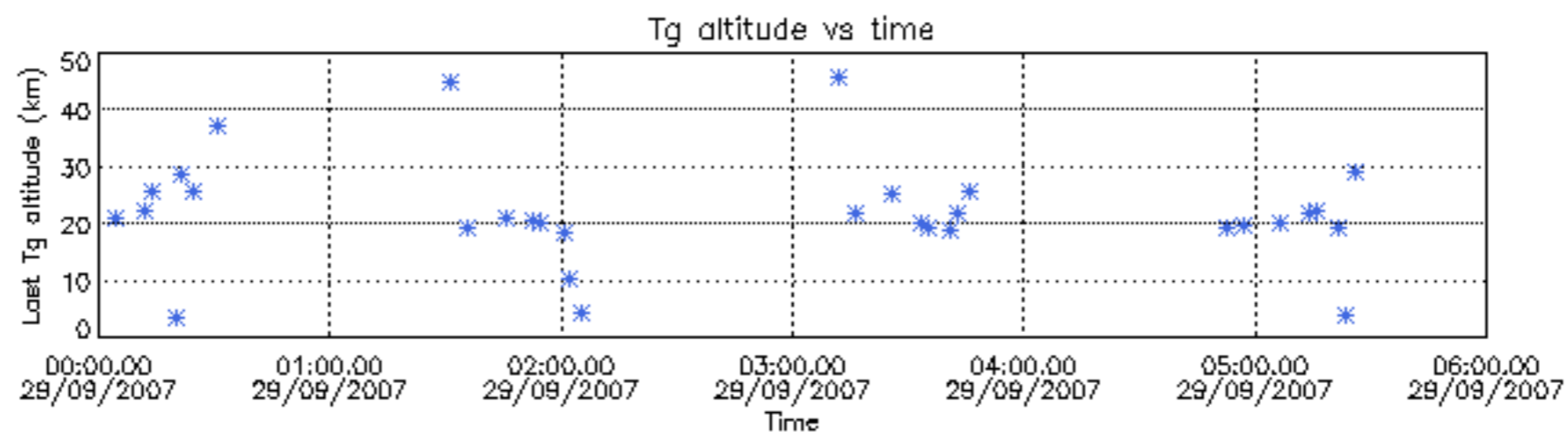
Percentage of saturation errors per profile



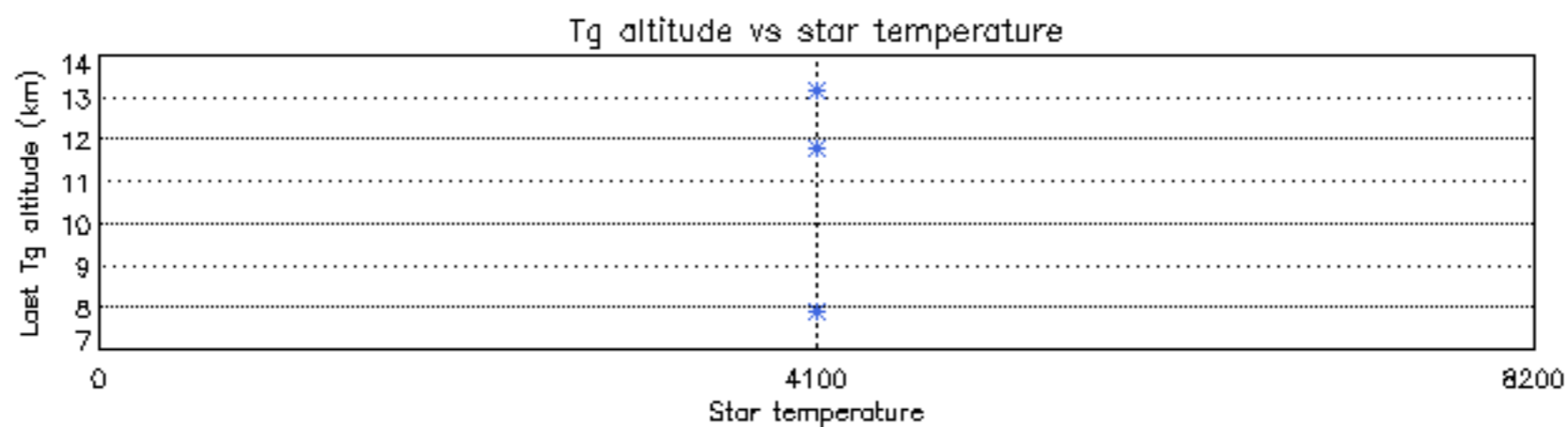
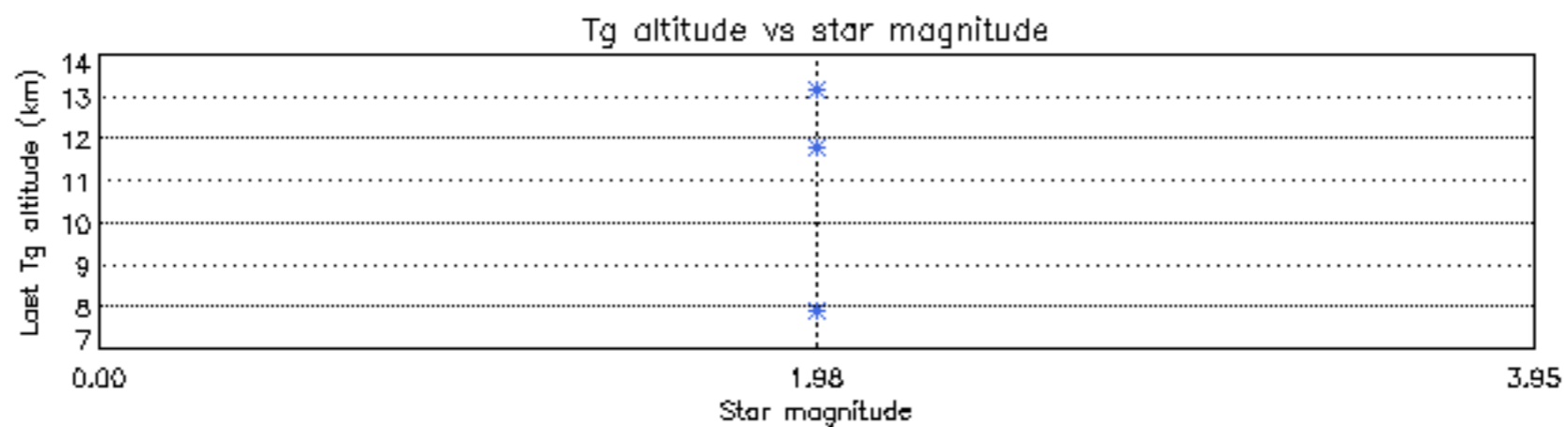
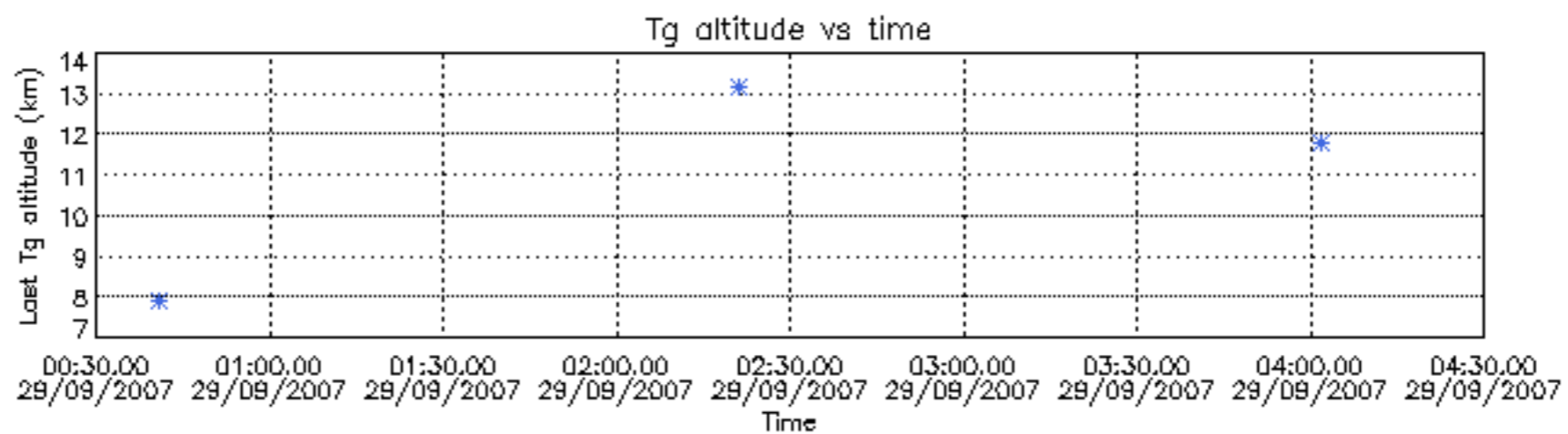
Tangent altitude at which the star is lost

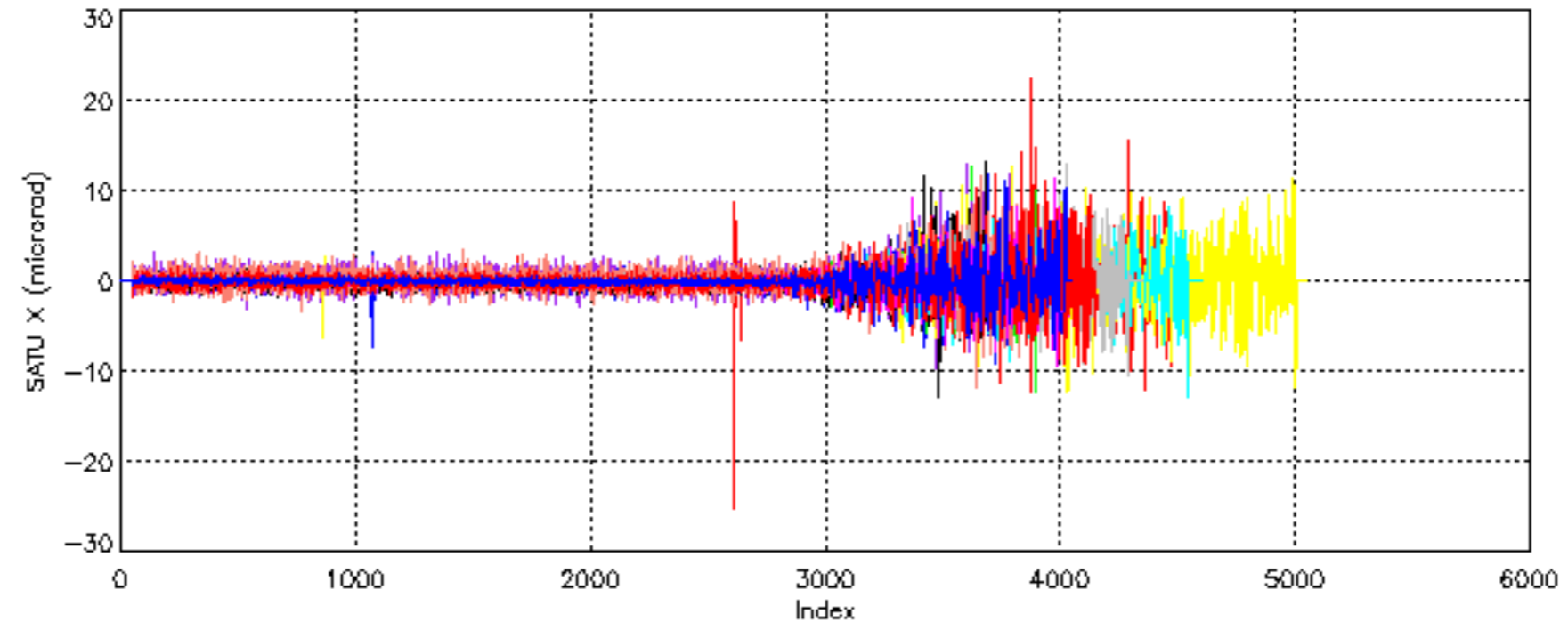


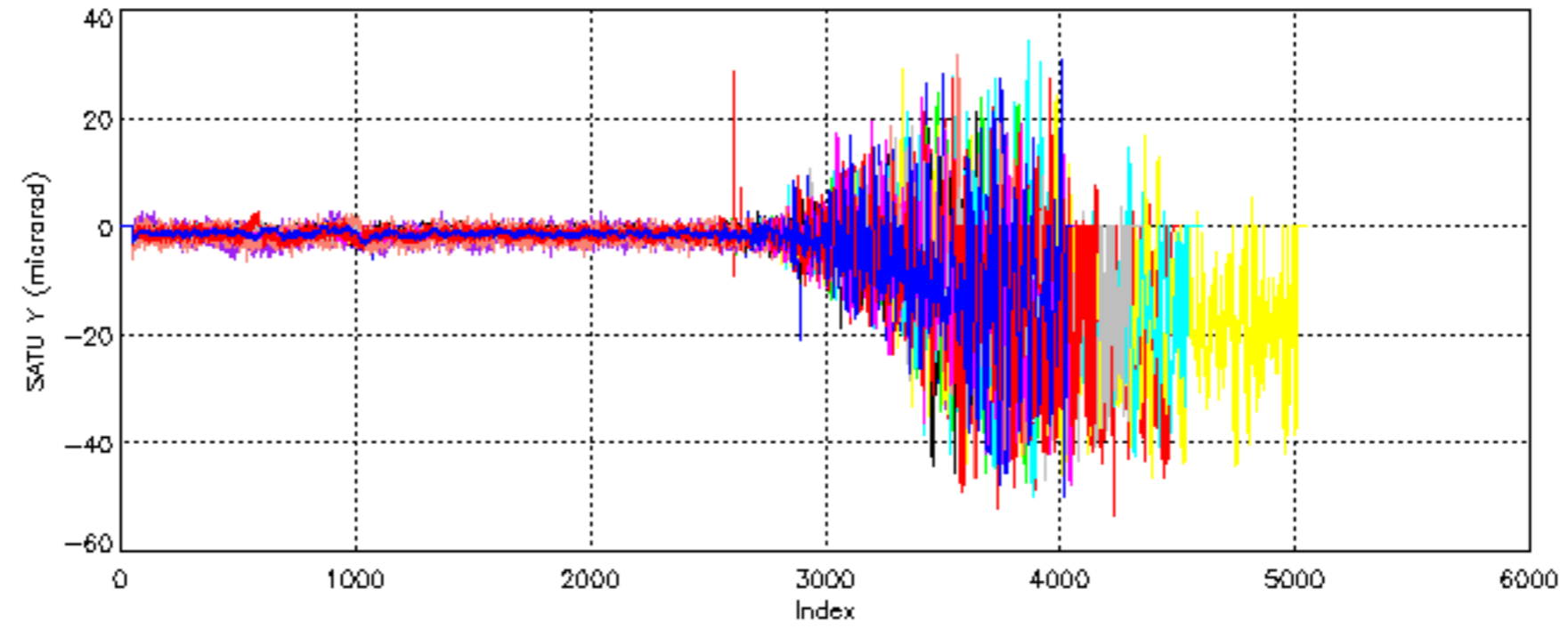
Tangent altitude at which the star is lost

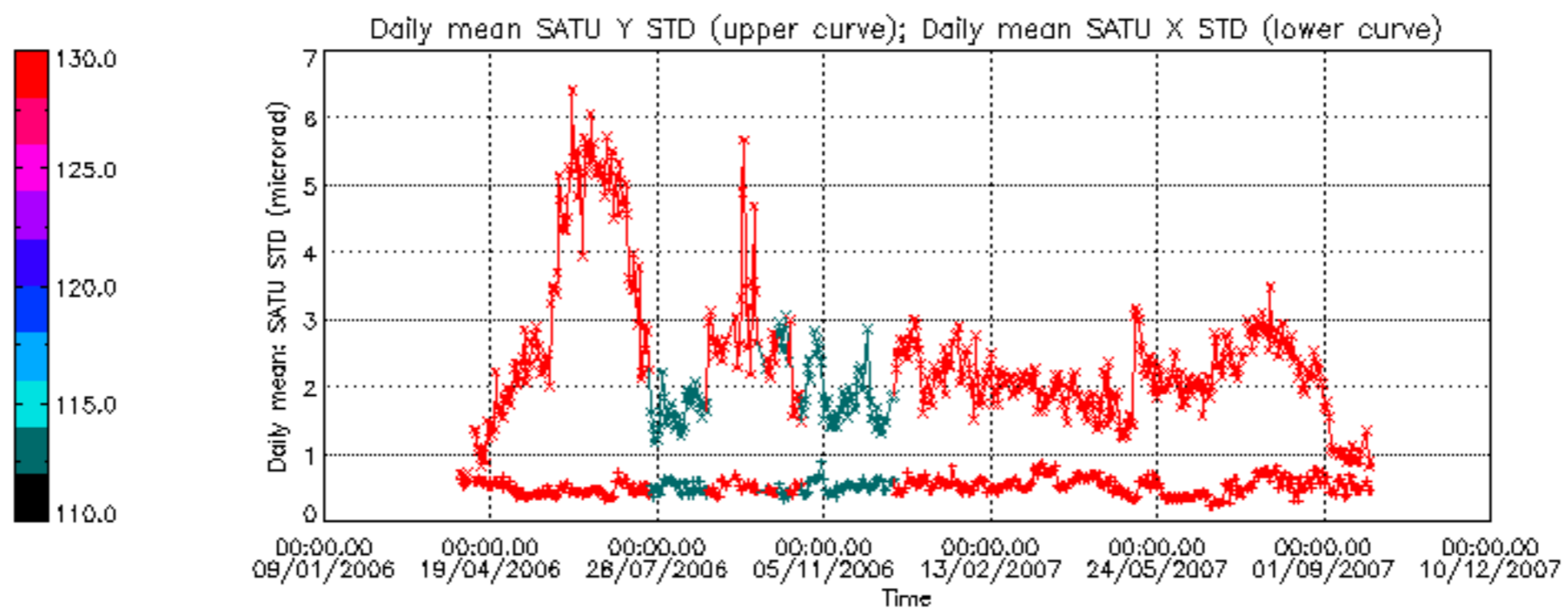


Tangent altitude at which the star is lost









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 2; -499.7; 01-SEP-2007 00:26:28; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;28770
 3; -304.8; 01-SEP-2007 00:29:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28770
 4; 523.8; 01-SEP-2007 00:43:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28771
 5; 600.3; 01-SEP-2007 00:44:48; Dark ; 55.5; 9; Alp Eri ; 0.45; 24000;occ; 111; 0;28771
 6; 1048.8; 01-SEP-2007 00:52:17; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28771
 7; 1327.7; 01-SEP-2007 00:56:56; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28771
 8; 1618.7; 01-SEP-2007 01:01:47; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28771
 9; 1807.0; 01-SEP-2007 01:04:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28771
 10; 1895.7; 01-SEP-2007 01:06:24; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28771
 11; 2075.7; 01-SEP-2007 01:09:24; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28771
 12; 2677.9; 01-SEP-2007 01:19:26; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28771
 13; 2976.4; 01-SEP-2007 01:24:25; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28771
 14; 3434.7; 01-SEP-2007 01:32:03; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28771
 15; 4451.6; 01-SEP-2007 01:49:00; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28771
 16; 4610.6; 01-SEP-2007 01:51:39; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28771
 17; 4790.0; 01-SEP-2007 01:54:38; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;28771
 18; 4912.9; 01-SEP-2007 01:56:41; Dark ; 45.5; 8; 10Alp CMi ; 0.40; 6500;occ; 91; 0;28771

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 2; -499.2; 01-SEP-2007 02:07:05; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;28771
 3; -304.1; 01-SEP-2007 02:10:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28771
 4; 524.4; 01-SEP-2007 02:24:08; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;28772
 5; 601.0; 01-SEP-2007 02:25:25; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;28772
 6; 1049.1; 01-SEP-2007 02:32:53; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;28772
 7; 1328.1; 01-SEP-2007 02:37:32; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28772
 8; 1618.9; 01-SEP-2007 02:42:23; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;28772
 9; 1807.2; 01-SEP-2007 02:45:31; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28772
 10; 1895.8; 01-SEP-2007 02:47:00; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28772
 11; 2075.7; 01-SEP-2007 02:50:00; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28772
 12; 2678.0; 01-SEP-2007 03:00:02; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28772
 13; 2976.3; 01-SEP-2007 03:05:00; Bright; 33.0; 89; 5Alp Cep ; 2.45; 8000;occ; 66; 0;28772
 14; 3434.8; 01-SEP-2007 03:12:39; Bright; 31.5; 49; 1Alp UMi ; 1.99; 6300;occ; 63; 0;28772

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 3; -1245.6; 01-SEP-2007 03:35:14; Dark ; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;28772
 4; -1122.8; 01-SEP-2007 03:37:17; Dark ; 46.5; 8; 10Alp CMi ; 0.40; 6500;occ; 93; 0;28772
 5; -664.6; 01-SEP-2007 03:44:55; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;28772
 6; -498.7; 01-SEP-2007 03:47:41; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28772
 7; -398.5; 01-SEP-2007 03:49:22; Dark ; 41.5; 177; 1Zet CMA ; 3.02; 26000;occ; 83; 0;28772
 8; -303.5; 01-SEP-2007 03:50:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28772
 9; 525.1; 01-SEP-2007 04:04:45; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28773
 10; 601.7; 01-SEP-2007 04:06:02; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;28773
 11; 1049.6; 01-SEP-2007 04:13:30; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28773
 12; 1328.5; 01-SEP-2007 04:18:09; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28773
 13; 1619.1; 01-SEP-2007 04:22:59; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28773
 14; 1807.3; 01-SEP-2007 04:26:07; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28773
 15; 1895.9; 01-SEP-2007 04:27:36; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28773
 16; 2075.9; 01-SEP-2007 04:30:36; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28773
 17; 2678.2; 01-SEP-2007 04:40:38; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;28773
 18; 2976.3; 01-SEP-2007 04:45:36; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28773
 19; 3434.8; 01-SEP-2007 04:53:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28773

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1; -1584.0; 01-SEP-2007 05:10:12; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28773
 2; -1424.8; 01-SEP-2007 05:12:51; Dark ; 48.0; 170; 27Eps Gem ; 3.00; 9700;occ; 96; 0;28773
 3; -1245.1; 01-SEP-2007 05:15:51; Dark ; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;28773
 4; -1122.4; 01-SEP-2007 05:17:54; Dark ; 42.5; 8; 10Alp CMi ; 0.40; 6500;occ; 85; 0;28773
 5; -664.1; 01-SEP-2007 05:25:32; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;28773
 6; -498.1; 01-SEP-2007 05:28:18; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;28773
 7; -397.9; 01-SEP-2007 05:29:58; Dark ; 40.5; 177; 1Zet CMA ; 3.02; 26000;occ; 81; 0;28773
 8; -302.8; 01-SEP-2007 05:31:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28773
 9; 525.7; 01-SEP-2007 05:45:22; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28774
 10; 602.3; 01-SEP-2007 05:46:38; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28774
 11; 1050.0; 01-SEP-2007 05:54:06; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28774
 12; 1328.8; 01-SEP-2007 05:58:45; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28774
 13; 1619.2; 01-SEP-2007 06:03:35; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;28774

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14; 1807.3; 01-SEP-2007 06:06:43; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28774
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16; 2075.8; 01-SEP-2007 06:11:12; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28774
17; 2678.2; 01-SEP-2007 06:21:14; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28774
18; 2976.2; 01-SEP-2007 06:26:12; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28774
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 3; 1808.1; 01-SEP-2007 21:12:08; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28783
 4; 1895.6; 01-SEP-2007 21:13:35; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28783
 5; 2075.4; 01-SEP-2007 21:16:35; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28783
 6; 2975.2; 01-SEP-2007 21:31:35; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28783
 7; 3434.6; 01-SEP-2007 21:39:14; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28783
 8; 4453.3; 01-SEP-2007 21:56:13; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28783
 9; 4613.5; 01-SEP-2007 21:58:53; Dark ; 52.0; 170; 27Eps Gem ; 3.00; 9700;occ; 104; 0;28783
10; 4916.7; 01-SEP-2007 22:03:56; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;28783
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 2; -493.0; 01-SEP-2007 22:14:22; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;28783
 3; -296.2; 01-SEP-2007 22:17:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28783
 4; 531.1; 01-SEP-2007 22:31:26; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28784
 5; 608.4; 01-SEP-2007 22:32:44; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;28784
 6; 1053.0; 01-SEP-2007 22:40:08; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;28784
 7; 1331.4; 01-SEP-2007 22:44:47; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28784
 8; 1620.4; 01-SEP-2007 22:49:36; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28784
 9; 1808.2; 01-SEP-2007 22:52:43; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28784
10; 1895.6; 01-SEP-2007 22:54:11; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28784
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13; 3434.5; 01-SEP-2007 23:19:50; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28784
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15; 4613.8; 01-SEP-2007 23:39:29; Dark ; 50.5; 170; 27Eps Gem ; 3.00; 9700;occ; 101; 0;28784
16; 4916.9; 01-SEP-2007 23:44:32; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;28784
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13; 2974.9; 02-SEP-2007 02:33:22; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;28786
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6; -388.7; 02-SEP-2007 03:17:54; Dark ; 42.0; 177; 1Zet CMA ; 3.02; 26000;occ; 84; 0;28786
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9; 532.7; 02-SEP-2007 03:33:16; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28787
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11; 1054.0; 02-SEP-2007 03:41:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28787
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17; 2974.9; 02-SEP-2007 04:13:58; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28787
18; 3434.6; 02-SEP-2007 04:21:38; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28787

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17; 2974.9; 02-SEP-2007 05:54:34; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28788
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9; 4455.3; 02-SEP-2007 21:24:38; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;28797
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6; -82.1; 02-SEP-2007 21:49:36; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28797
7; 538.7; 02-SEP-2007 21:59:57; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28798
8; 616.9; 02-SEP-2007 22:01:15; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;28798

9; 1057.3; 02-SEP-2007 22:08:35; Dark ; 44.0; 63; Bet Gru ; 2.15; 2800;occ; 88; 0;28798
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 13; 1895.4; 02-SEP-2007 22:22:34; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28798
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 16; 3434.4; 02-SEP-2007 22:48:13; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;28798
 17; 4455.3; 02-SEP-2007 23:05:13; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28798
 18; 4921.5; 02-SEP-2007 23:13:00; Dark ; 55.0; 8; 10Alp CMi ; 0.40; 6500;occ; 110; 0;28798
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 5; 539.3; 02-SEP-2007 23:40:33; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28799
 6; 617.4; 02-SEP-2007 23:41:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28799
 7; 1057.6; 02-SEP-2007 23:49:12; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;28799
 8; 1335.4; 02-SEP-2007 23:53:49; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;28799
 9; 1622.4; 02-SEP-2007 23:58:36; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28799
 10; 1809.6; 03-SEP-2007 00:01:44; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28799
 11; 1895.5; 03-SEP-2007 00:03:09; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28799
 12; 2074.8; 03-SEP-2007 00:06:09; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28799
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 2; 1623.8; 03-SEP-2007 16:44:37; Dark ; 47.0; 142; 49Del Cap ; 2.85; 8900;occ; 94; 0;28809
 3; 1810.9; 03-SEP-2007 16:47:44; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28809
 4; 1895.4; 03-SEP-2007 16:49:09; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28809
 5; 2074.7; 03-SEP-2007 16:52:08; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28809
 6; 2973.2; 03-SEP-2007 17:07:06; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28809
 7; 3434.2; 03-SEP-2007 17:14:47; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28809
 8; 4457.1; 03-SEP-2007 17:31:50; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28809
 9; 4925.4; 03-SEP-2007 17:39:39; Dark ; 46.0; 8; 10Alp CMi ; 0.40; 6500;occ; 92; 0;28809
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 11; 5557.2; 03-SEP-2007 17:50:10; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28809
 12; 5647.8; 03-SEP-2007 17:51:41; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;28809
 13; 5757.5; 03-SEP-2007 17:53:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28809
 14; 5842.6; 03-SEP-2007 17:54:56; Dark ; 45.5; 108; Alp Col ; 2.65; 15200;occ; 91; 0;28809
 15; 5959.6; 03-SEP-2007 17:56:53; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;28809
 16; 6581.5; 03-SEP-2007 18:07:15; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28809
 17; 6660.1; 03-SEP-2007 18:08:33; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28809
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 4; 1810.8; 03-SEP-2007 18:28:20; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28810
 5; 1895.4; 03-SEP-2007 18:29:45; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28810
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 11; 5395.6; 03-SEP-2007 19:28:05; Dark ; 57.5; 1; 9Alp CMA ; -1.44; 11000;occ; 115; 0;28810
 12; 5557.5; 03-SEP-2007 19:30:47; Dark ; 40.0; 23; 21Eps CMA ; 1.50; 26000;occ; 80; 0;28810
 13; 5648.2; 03-SEP-2007 19:32:17; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;28810
 14; 5758.2; 03-SEP-2007 19:34:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28810
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 16; 5960.0; 03-SEP-2007 19:37:29; Dark ; 41.0; 2; Alp Car ; -0.74; 7000;occ; 82; 0;28810
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 6; -74.6; 04-SEP-2007 00:39:18; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28813
 7; 547.4; 04-SEP-2007 00:49:40; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28814
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 9; 1061.9; 04-SEP-2007 00:58:15; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;28814
 10; 1339.5; 04-SEP-2007 01:02:52; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;28814

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16; 3434.0; 04-SEP-2007 01:37:47; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28814
17; 4457.6; 04-SEP-2007 01:54:50; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;28814
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 2; 989.3; 04-SEP-2007 04:18:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28816
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 4; 3535.1; 04-SEP-2007 05:00:40; Bright; 85.5; 73; 57Gam1And ; 2.26; 13100;occ; 171; 0;28816
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 3; -1404.7; 04-SEP-2007 05:18:56; Dark ; 254.5; 150; 44Zet Per ; 2.89; 28000;occ; 509; 0;28816
 4; -679.3; 04-SEP-2007 05:31:01; Dark ; 148.5; 13; 87Alp Tau ; 0.87; 3800;occ; 297; 0;28816
 5; 459.3; 04-SEP-2007 05:50:00; Dark ; 225.0; 165; 34Gam Eri ; 2.95; 3200;occ; 450; 0;28817
 6; 991.7; 04-SEP-2007 05:58:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28817
 7; 3162.6; 04-SEP-2007 06:35:03; Bright; 76.0; 53; 43Bet And ; 2.05; 3300;occ; 152; 0;28817
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 3; 3516.5; 04-SEP-2007 21:46:20; Bright; 78.5; 73; 57Gam1And ; 2.26; 13100;occ; 157; 0;28826
 4; 3960.2; 04-SEP-2007 21:53:44; Bright; 100.5; 79; 26Bet Per ; 2.31; 13100;occ; 201; 0;28826
 5; 4187.8; 04-SEP-2007 21:57:32; Bright; 84.0; 149; 45Eps Per ; 2.89; 30000;occ; 168; 0;28826
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 3; 1015.9; 04-SEP-2007 22:45:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28827
 4; 3142.0; 04-SEP-2007 23:20:42; Bright; 85.5; 53; 43Bet And ; 2.05; 3300;occ; 171; 0;28827
 5; 3514.7; 04-SEP-2007 23:26:55; Bright; 84.0; 73; 57Gam1And ; 2.26; 13100;occ; 168; 0;28827
 6; 3958.7; 04-SEP-2007 23:34:19; Bright; 101.0; 79; 26Bet Per ; 2.31; 13100;occ; 202; 0;28827
 7; 4187.0; 04-SEP-2007 23:38:07; Bright; 86.0; 149; 45Eps Per ; 2.89; 30000;occ; 172; 0;28827
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 3; 1018.3; 05-SEP-2007 00:25:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28828
 4; 3139.9; 05-SEP-2007 01:01:16; Bright; 75.0; 53; 43Bet And ; 2.05; 3300;occ; 150; 0;28828
 5; 3512.9; 05-SEP-2007 01:07:29; Bright; 86.5; 73; 57Gam1And ; 2.26; 13100;occ; 173; 0;28828
 6; 3957.3; 05-SEP-2007 01:14:53; Bright; 104.5; 79; 26Bet Per ; 2.31; 13100;occ; 209; 0;28828
 7; 4186.4; 05-SEP-2007 01:18:42; Bright; 85.5; 149; 45Eps Per ; 2.89; 30000;occ; 171; 0;28828
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 3; -1403.8; 04-SEP-2007 06:59:33; Dark ; 255.0; 150; 44Zet Per ; 2.89; 28000;occ; 510; 0;28817
 4; -674.4; 04-SEP-2007 07:11:42; Dark ; 178.5; 13; 87Alp Tau ; 0.87; 3800;occ; 357; 0;28817
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 3; -2280.4; 04-SEP-2007 08:25:32; Bright; 169.0; 173; 4Bet Tri ; 3.00; 8900;occ; 338; 0;28818
 4; -1842.6; 04-SEP-2007 08:32:50; Bright; 85.0; 149; 45Eps Per ; 2.89; 30000;occ; 170; 0;28818
 5; -1402.9; 04-SEP-2007 08:40:09; Dark ; 255.0; 150; 44Zet Per ; 2.89; 28000;occ; 510; 0;28818
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3;-2296.7; 04-SEP-2007 16:48:15; Bright; 175.0; 173; 4Bet Tri ; 3.00; 8900;occ; 350; 0;28823
4;-1845.9; 04-SEP-2007 16:55:46; Bright; 80.0; 149; 45Eps Per ; 2.89; 30000;occ; 160; 0;28823
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 9; 3978.8; 23-SEP-2007 18:35:40; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29096
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