

GOMOS Daily Report 26-SEP-2010

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	29SEP2010 04:46:57
Data source version	GOMOS/5.01
Start time of products	26SEP2010 00:03:27
Stop time of products	26SEP2010 23:57:07
Store outputs in DB	Yes
Nb of level 1b prods	70
Nb of prods with errors	0

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

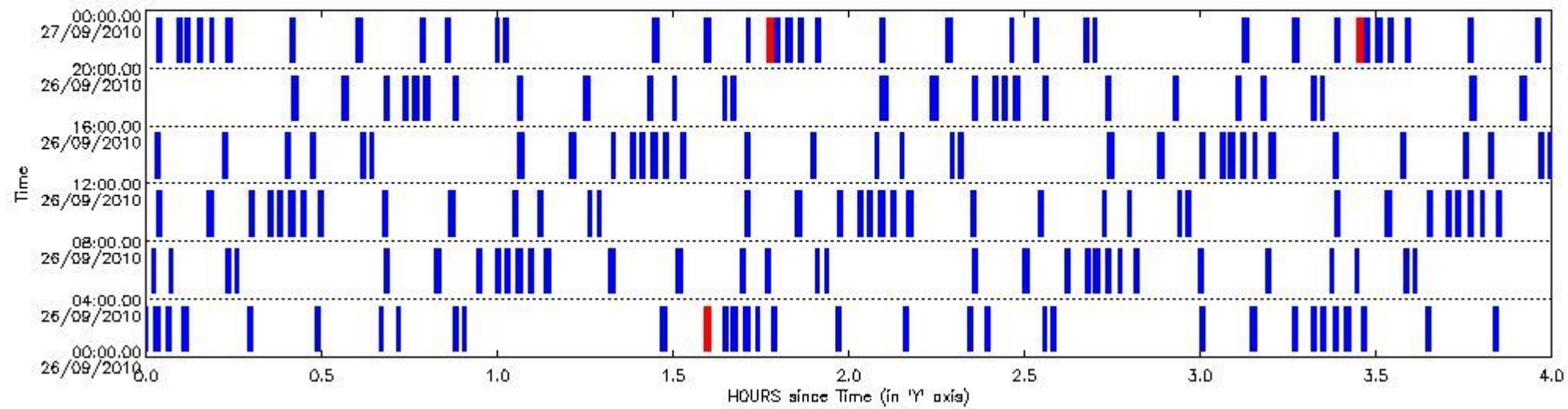
2.1 Level 0 products arrived in PCF (see template [here](#))

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
26-SEP-2010 01:35:16	15RhoPup	132	44817
26-SEP-2010 21:45:57	31EtaCMa	88	44829
26-SEP-2010 23:26:34	31EtaCMa	88	44830

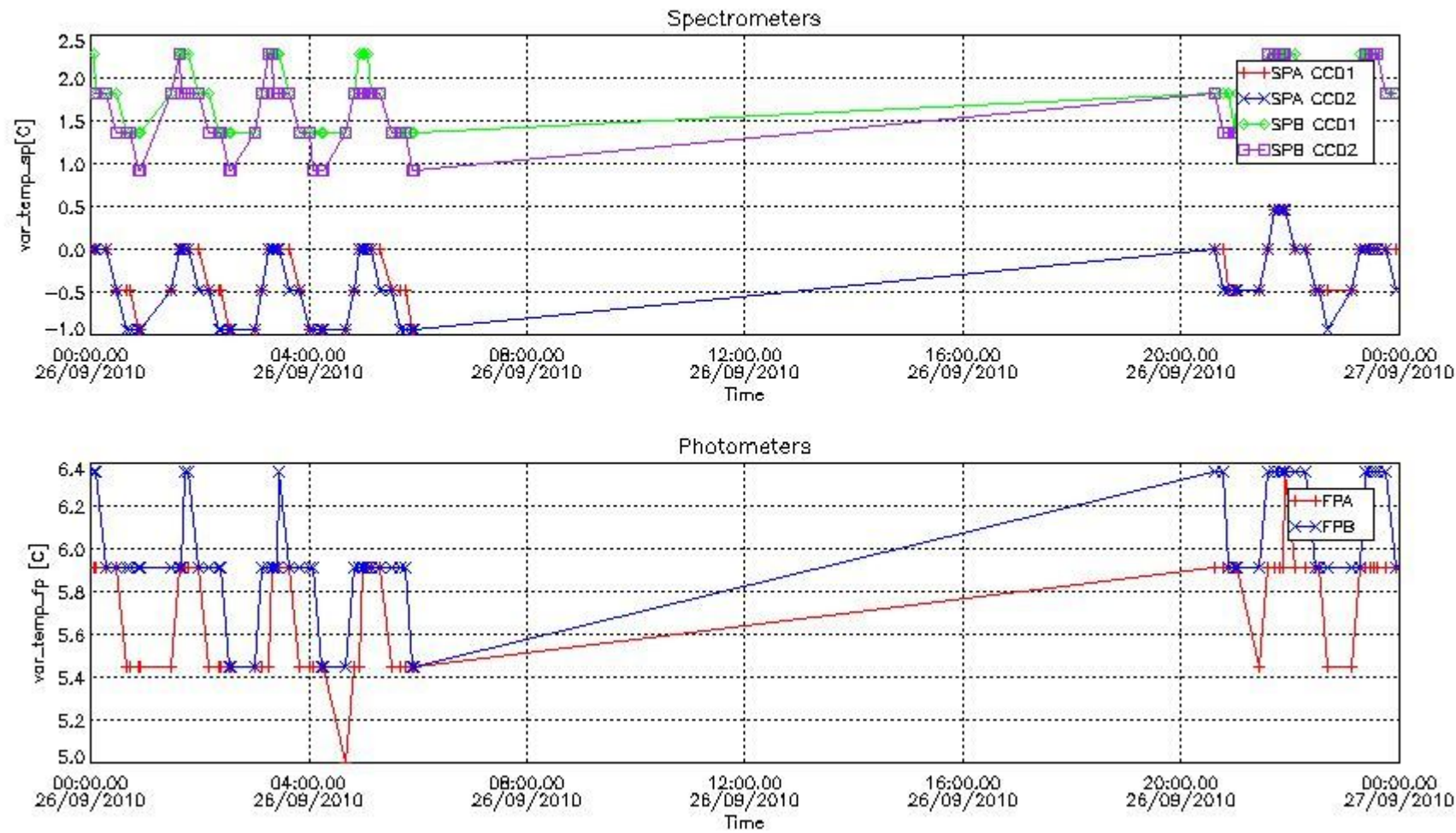
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100926_000327_000000422093_00174_44817_6415.N1	26-SEP-2010 00:03:27	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	44817	No
2	GOM_TRA_1PNPDE20100926_000609_000000562093_00174_44817_6416.N1	26-SEP-2010 00:06:09	Dark	55.500	108	Alp Col	2.6520	15200.	111	44817	No
3	GOM_TRA_1PNPDE20100926_001711_000000532093_00174_44817_6417.N1	26-SEP-2010 00:17:11	Straylight	52.500	157	The1Eri	2.9060	9300.0	105	44817	No
4	GOM_TRA_1PNPDE20100926_002842_000000572093_00174_44817_6418.N1	26-SEP-2010 00:28:42	Twilight_stray	56.500	52	16Bet Cet	2.0370	4500.0	113	44817	No
5	GOM_TRA_1PNPDE20100926_003940_000000432093_00174_44817_6419.N1	26-SEP-2010 00:39:40	Bright	42.500	140	88Gam Peg	2.8340	26000.	85	44817	No
6	GOM_TRA_1PNPDE20100926_004243_000000392093_00174_44817_6420.N1	26-SEP-2010 00:42:43	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	44817	No
7	GOM_TRA_1PNPDE20100926_005228_000000402093_00174_44817_6421.N1	26-SEP-2010 00:52:28	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	44817	No
8	GOM_TRA_1PNPDE20100926_005358_000000422093_00174_44817_6422.N1	26-SEP-2010 00:53:58	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	44817	No

9	GOM_TRA_1PNPDE20100926_012750_000000672093_00174_44817_6423.N1	26-SEP-2010 01:27:50	Dark	67.000	8	10Alp CMi	0.40000	6500.0	134	44817	No
10	GOM_TRA_1PNPDE20100926_013825_000000482093_00174_44817_6434.N1	26-SEP-2010 01:38:25	Dark	47.500	88	31Eta CMa	2.4480	20000.	95	44817	No
11	GOM_TRA_1PNPDE20100926_013954_000000552093_00174_44817_6435.N1	26-SEP-2010 01:39:54	Dark	54.500	23	21Eps CMa	1.5020	26000.	109	44817	No
12	GOM_TRA_1PNPDE20100926_014404_000000412093_00175_44818_6436.N1	26-SEP-2010 01:44:04	Dark	40.500	161	Tau Pup	2.9310	4500.0	81	44818	No
13	GOM_TRA_1PNPDE20100926_014646_000000572093_00175_44818_6437.N1	26-SEP-2010 01:46:46	Dark	56.500	108	Alp Col	2.6520	15200.	113	44818	No
14	GOM_TRA_1PNPDE20100926_015748_000000522093_00175_44818_6438.N1	26-SEP-2010 01:57:48	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	44818	No
15	GOM_TRA_1PNPDE20100926_020918_000000532093_00175_44818_6439.N1	26-SEP-2010 02:09:18	Tw_i_and_stray	52.500	52	16Bet Cet	2.0370	4500.0	105	44818	No
16	GOM_TRA_1PNPDE20100926_022016_000000432093_00175_44818_6440.N1	26-SEP-2010 02:20:16	Bright	42.500	140	88Gam Peg	2.8340	26000.	85	44818	No
17	GOM_TRA_1PNPDE20100926_022319_000000362093_00175_44818_6441.N1	26-SEP-2010 02:23:19	Bright	36.000	93	53Bet Peg	2.5200	3100.0	72	44818	No
18	GOM_TRA_1PNPDE20100926_023303_000000372093_00175_44818_6442.N1	26-SEP-2010 02:33:03	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	44818	No
19	GOM_TRA_1PNPDE20100926_023434_000000432093_00175_44818_6443.N1	26-SEP-2010 02:34:34	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	44818	No
20	GOM_TRA_1PNPDE20100926_025953_000000542093_00175_44818_6465.N1	26-SEP-2010 02:59:53	Bright	53.500	17	78Bet Gem	1.1610	4500.0	107	44818	No
21	GOM_TRA_1PNPDE20100926_030827_000000632093_00175_44818_6466.N1	26-SEP-2010 03:08:27	Dark	63.000	8	10Alp CMi	0.40000	6500.0	126	44818	No
22	GOM_TRA_1PNPDE20100926_031542_000000452093_00175_44818_6467.N1	26-SEP-2010 03:15:42	Dark	45.000	132	15Rho Pup	2.8030	6900.0	90	44818	No
23	GOM_TRA_1PNPDE20100926_031901_000000462093_00175_44818_6468.N1	26-SEP-2010 03:19:01	Dark	46.000	88	31Eta CMa	2.4480	20000.	92	44818	No
24	GOM_TRA_1PNPDE20100926_032031_000000532093_00175_44818_6469.N1	26-SEP-2010 03:20:31	Dark	53.000	23	21Eps CMa	1.5020	26000.	106	44818	No
25	GOM_TRA_1PNPDE20100926_032441_000000512093_00176_44819_6470.N1	26-SEP-2010 03:24:41	Dark	50.500	161	Tau Pup	2.9310	4500.0	101	44819	No
26	GOM_TRA_1PNPDE20100926_032724_000000552093_00176_44819_6471.N1	26-SEP-2010 03:27:24	Dark	55.000	108	Alp Col	2.6520	15200.	110	44819	No
27	GOM_TRA_1PNPDE20100926_033825_000000512093_00176_44819_6472.N1	26-SEP-2010 03:38:25	Straylight	51.000	157	The1Eri	2.9060	9300.0	102	44819	No
28	GOM_TRA_1PNPDE20100926_034954_000000512093_00176_44819_6473.N1	26-SEP-2010 03:49:54	Tw_i_and_stray	51.000	52	16Bet Cet	2.0370	4500.0	102	44819	No
29	GOM_TRA_1PNPDE20100926_040051_000000432093_00176_44819_6474.N1	26-SEP-2010 04:00:51	Bright	42.500	140	88Gam Peg	2.8340	26000.	85	44819	No
30	GOM_TRA_1PNPDE20100926_040355_000000372093_00176_44819_6475.N1	26-SEP-2010 04:03:55	Bright	36.500	93	53Bet Peg	2.5200	3100.0	73	44819	No
31	GOM_TRA_1PNPDE20100926_041339_000000392093_00176_44819_6476.N1	26-SEP-2010 04:13:39	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44819	No
32	GOM_TRA_1PNPDE20100926_041509_000000402093_00176_44819_6477.N1	26-SEP-2010 04:15:09	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44819	No
33	GOM_TRA_1PNPDE20100926_044029_000000532093_00176_44819_6489.N1	26-SEP-2010 04:40:29	Bright	53.000	17	78Bet Gem	1.1610	4500.0	106	44819	No
34	GOM_TRA_1PNPDE20100926_044904_000000642093_00176_44819_6490.N1	26-SEP-2010 04:49:04	Dark	64.000	8	10Alp CMi	0.40000	6500.0	128	44819	No
35	GOM_TRA_1PNPDE20100926_045619_000000472093_00176_44819_6491.N1	26-SEP-2010 04:56:19	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	44819	No
36	GOM_TRA_1PNPDE20100926_045938_000000472093_00176_44819_6492.N1	26-SEP-2010 04:59:38	Dark	46.500	88	31Eta CMa	2.4480	20000.	93	44819	No
37	GOM_TRA_1PNPDE20100926_050108_000000522093_00176_44819_6493.N1	26-SEP-2010 05:01:08	Dark	51.500	23	21Eps CMa	1.5020	26000.	103	44819	No
38	GOM_TRA_1PNPDE20100926_050517_000000432093_00177_44820_6494.N1	26-SEP-2010 05:05:17	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	44820	No
39	GOM_TRA_1PNPDE20100926_050801_000000562093_00177_44820_6495.N1	26-SEP-2010 05:08:01	Dark	55.500	108	Alp Col	2.6520	15200.	111	44820	No
40	GOM_TRA_1PNPDE20100926_051902_000000532093_00177_44820_6496.N1	26-SEP-2010 05:19:02	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	44820	No
41	GOM_TRA_1PNPDE20100926_053030_000000552093_00177_44820_6497.N1	26-SEP-2010 05:30:30	Tw_i_and_stray	55.000	52	16Bet Cet	2.0370	4500.0	110	44820	No
42	GOM_TRA_1PNPDE20100926_054127_000000432093_00177_44820_6498.N1	26-SEP-2010 05:41:27	Bright	42.500	140	88Gam Peg	2.8340	26000.	85	44820	No
43	GOM_TRA_1PNPDE20100926_054542_000000442093_00177_44820_6499.N1	26-SEP-2010 05:45:42	Bright	44.000	58	21Alp And	2.0730	11000.	88	44820	No
44	GOM_TRA_1PNPDE20100926_055415_000000412093_00177_44820_6500.N1	26-SEP-2010 05:54:15	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	44820	No
45	GOM_TRA_1PNPDE20100926_055545_000000422093_00177_44820_6501.N1	26-SEP-2010 05:55:45	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	44820	No
46	GOM_TRA_1PNPDE20100926_203555_000000542093_00186_44829_6576.N1	26-SEP-2010 20:35:55	Tw_i_and_stray	53.500	52	16Bet Cet	2.0370	4500.0	107	44829	No
47	GOM_TRA_1PNPDE20100926_204648_000000422093_00186_44829_6577.N1	26-SEP-2010 20:46:48	Bright	41.500	140	88Gam Peg	2.8340	26000.	83	44829	No
48	GOM_TRA_1PNPDE20100926_205102_000000552093_00186_44829_6578.N1	26-SEP-2010 20:51:02	Bright	54.500	58	21Alp And	2.0730	11000.	109	44829	No
49	GOM_TRA_1PNPDE20100926_205935_000000402093_00186_44829_6579.N1	26-SEP-2010 20:59:35	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	44829	No
50	GOM_TRA_1PNPDE20100926_210104_000000412093_00186_44829_6580.N1	26-SEP-2010 21:01:04	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	44829	No
51	GOM_TRA_1PNPDE20100926_212631_000000542093_00186_44829_6581.N1	26-SEP-2010 21:26:31	Bright	53.500	17	78Bet Gem	1.1610	4500.0	107	44829	No
52	GOM_TRA_1PNPDE20100926_213511_000000672093_00186_44829_6582.N1	26-SEP-2010 21:35:11	Dark	66.500	8	10Alp CMi	0.40000	6500.0	133	44829	No
53	GOM_TRA_1PNPDE20100926_214225_000000442093_00186_44829_6594.N1	26-SEP-2010 21:42:25	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	44829	No
54	GOM_TRA_1PNPDE20100926_214719_000000502093_00186_44829_6595.N1	26-SEP-2010 21:47:19	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	44829	No
55	GOM_TRA_1PNPDE20100926_215123_000000482093_00187_44830_6596.N1	26-SEP-2010 21:51:23	Dark	48.000	161	Tau Pup	2.9310	4500.0	96	44830	No
56	GOM_TRA_1PNPDE20100926_215415_000000572093_00187_44830_6597.N1	26-SEP-2010 21:54:15	Dark	56.500	108	Alp Col	2.6520	15200.	113	44830	No
57	GOM_TRA_1PNPDE20100926_220509_000000502093_00187_44830_6598.N1	26-SEP-2010 22:05:09	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	44830	No
58	GOM_TRA_1PNPDE20100926_221631_000000592093_00187_44830_6599.N1	26-SEP-2010 22:16:31	Tw_i_and_stray	58.500	52	16Bet Cet	2.0370	4500.0	117	44830	No
59	GOM_TRA_1PNPDE20100926_222723_000000422093_00187_44830_6600.N1	26-SEP-2010 22:27:23	Bright	42.000	140	88Gam Peg	2.8340	26000.	84	44830	No
60	GOM_TRA_1PNPDE20100926_223138_000000412093_00187_44830_6601.N1	26-SEP-2010 22:31:38	Bright	41.000	58	21Alp And	2.0730	11000.	82	44830	No
61	GOM_TRA_1PNPDE20100926_224011_000000412093_00187_44830_6602.N1	26-SEP-2010 22:40:11	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	44830	No
62	GOM_TRA_1PNPDE20100926_224139_000000422093_00187_44830_6603.N1	26-SEP-2010 22:41:39	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	44830	No
63	GOM_TRA_1PNPDE20100926_230707_000000712093_00187_44830_6604.N1	26-SEP-2010 23:07:07	Bright	71.000	17	78Bet Gem	1.1610	4500.0	142	44830	No
64	GOM_TRA_1PNPDE20100926_231548_000000672093_00187_44830_6605.N1	26-SEP-2010 23:15:48	Dark	67.000	8	10Alp CMi	0.40000	6500.0	134	44830	No
65	GOM_TRA_1PNPDE20100926_232301_000000452093_00187_44830_6620.N1	26-SEP-2010 23:23:01	Dark	44.500	132	15Rho Pup	2.8030	6900.0	89	44830	No
66	GOM_TRA_1PNPDE20100926_232756_000000572093_00187_44830_6621.N1	26-SEP-2010 23:27:56	Dark	56.500	23	21Eps CMa	1.5020	26000.	113	44830	No
67	GOM_TRA_1PNPDE20100926_233200_000000502093_00188_44831_6622.N1	26-SEP-2010 23:32:00	Dark	49.500	161	Tau Pup	2.9310	4500.0	99	44831	No

68	GOM_TRA_1PNPDE20100926_233452_00000582093_00188_44831_6623.N1	26-SEP-2010 23:34:52	Dark	57.500	108	Alp Col	2.6520	15200.	115	44831	No
69	GOM_TRA_1PNPDE20100926_234546_00000532093_00188_44831_6624.N1	26-SEP-2010 23:45:46	Straylight	52.500	157	The1Eri	2.9060	9300.0	105	44831	No
70	GOM_TRA_1PNPDE20100926_235707_00000512093_00188_44831_6625.N1	26-SEP-2010 23:57:07	Twilight_and_stray	50.500	52	16Bet Cet	2.0370	4500.0	101	44831	No

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



4. Overview of dark signal processing per product

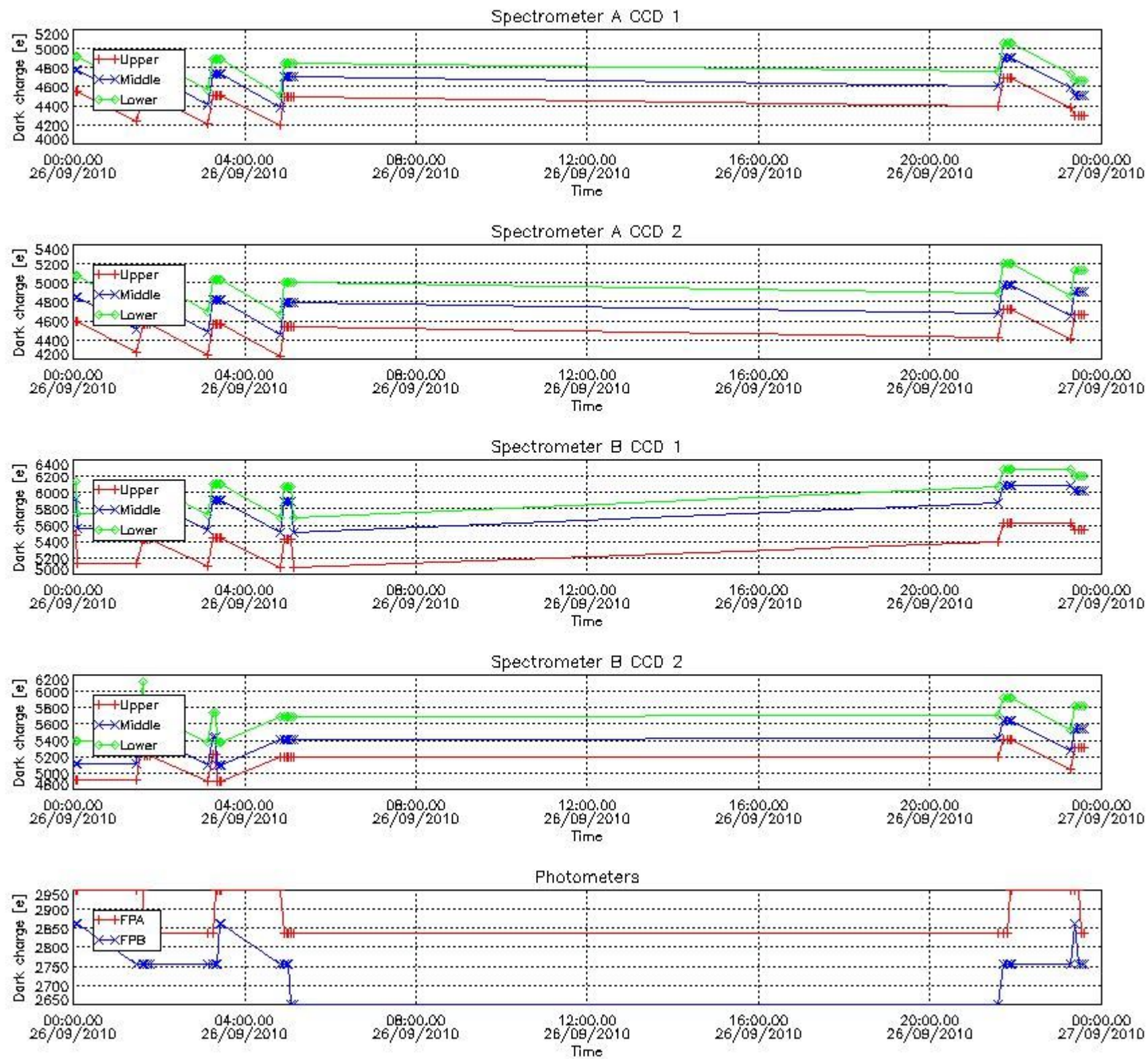
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20100926_203555_00000542093_00186_44829_6576.N1	DC map used
GOM_TRA_1PNPDE20100926_204648_00000422093_00186_44829_6577.N1	DC map used
GOM_TRA_1PNPDE20100926_205102_00000552093_00186_44829_6578.N1	DC map used
GOM_TRA_1PNPDE20100926_205935_00000402093_00186_44829_6579.N1	DC map used
GOM_TRA_1PNPDE20100926_210104_00000412093_00186_44829_6580.N1	DC map used
GOM_TRA_1PNPDE20100926_212631_00000542093_00186_44829_6581.N1	DC map used
GOM_TRA_1PNPDE20100926_213511_00000672093_00186_44829_6582.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



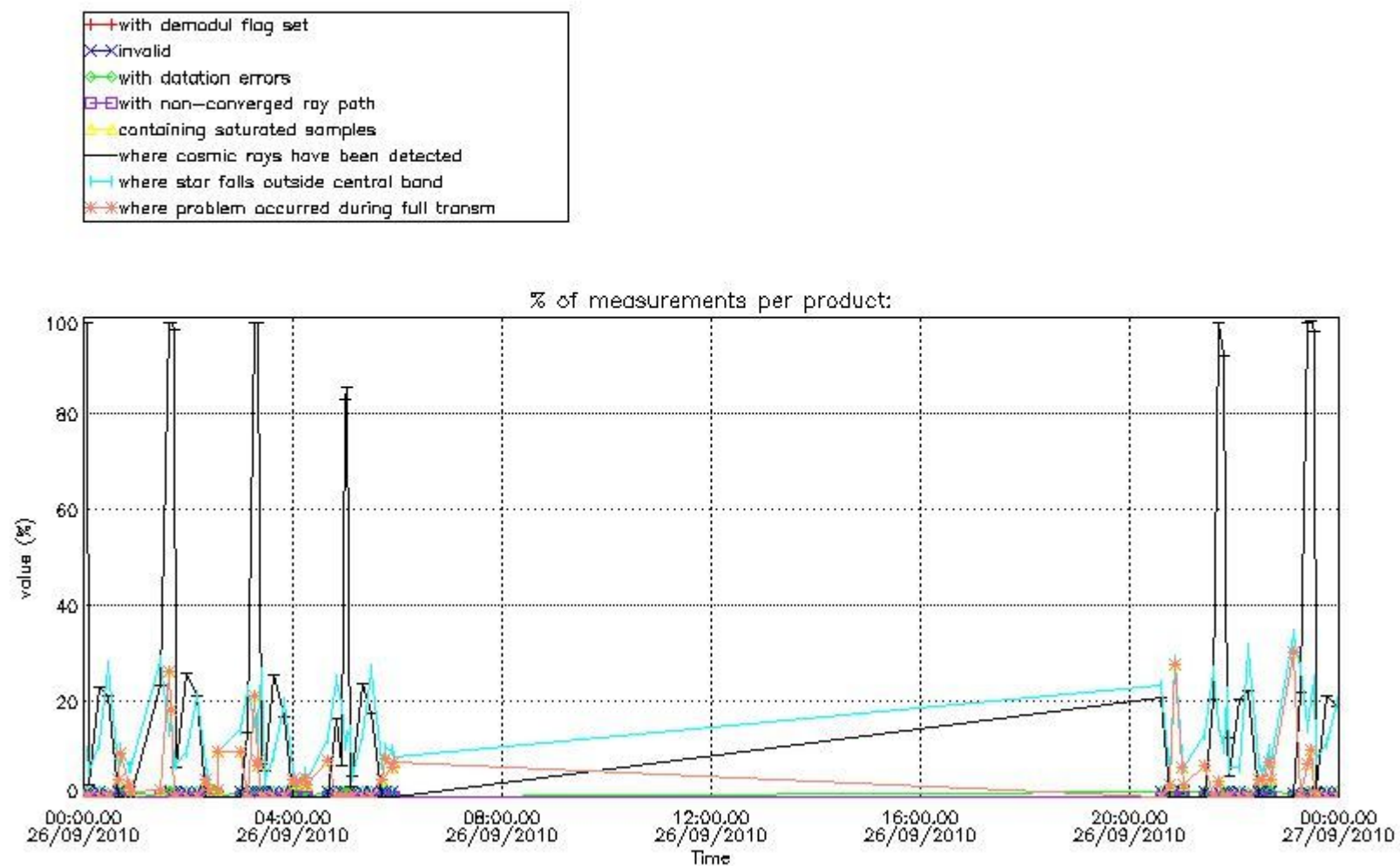
5. Demodulation flag and quality information monitoring

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.

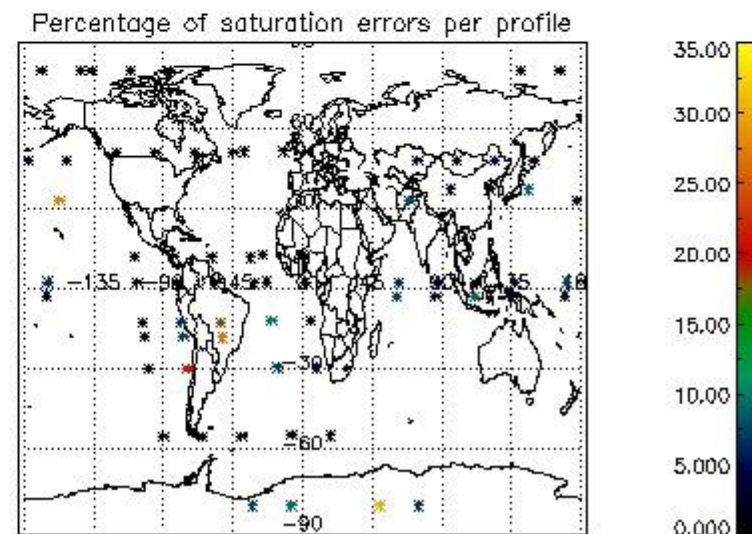
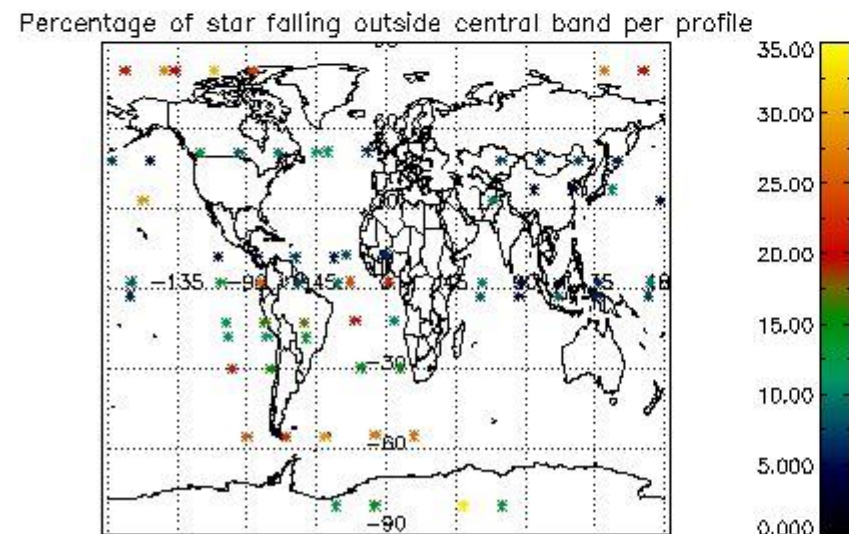
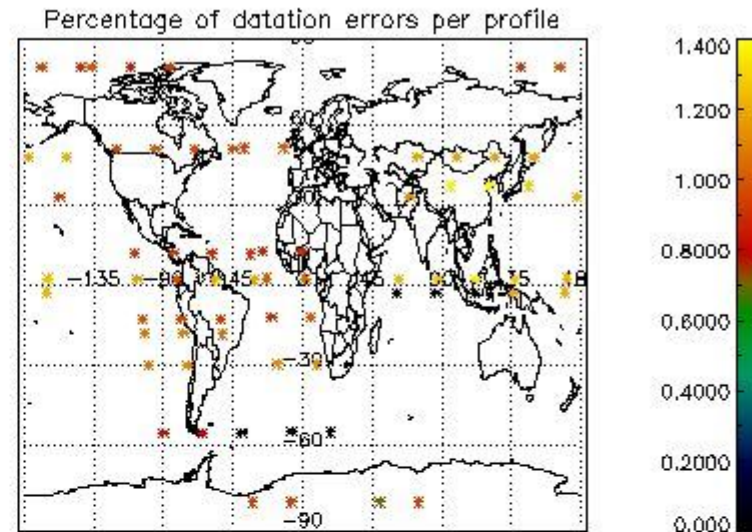
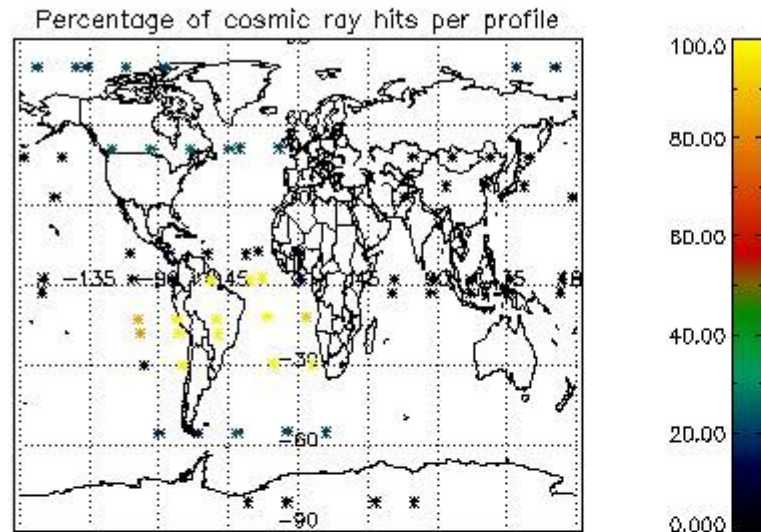
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	51.4286 %
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)



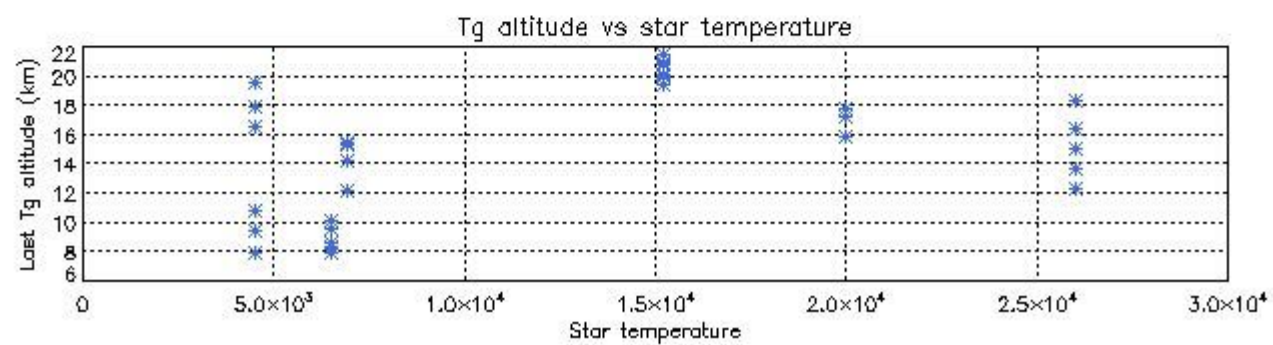
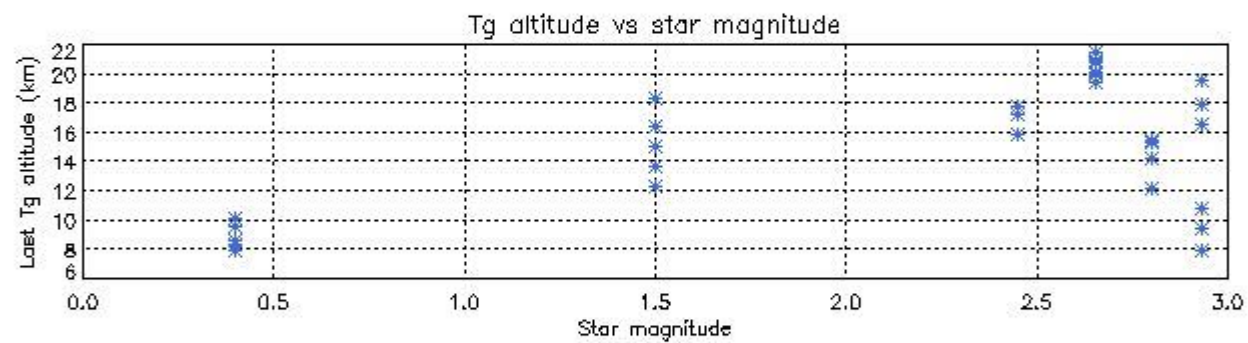
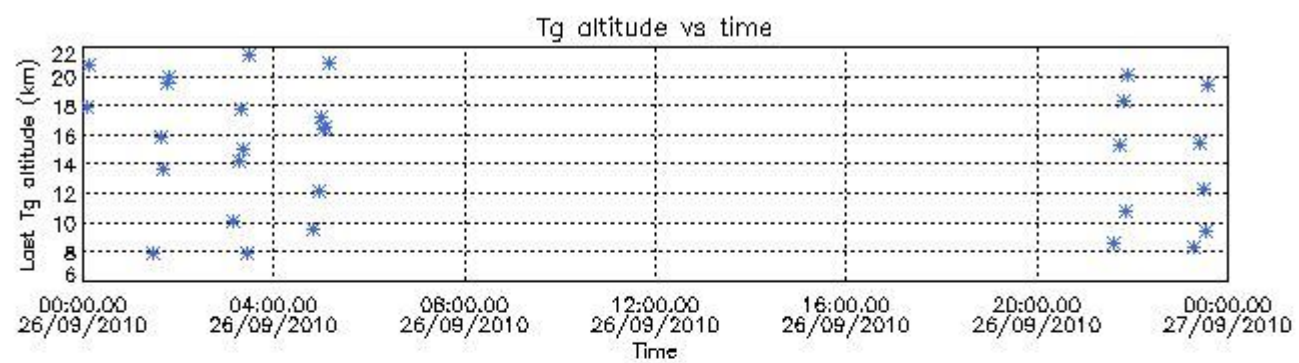
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.927	19.198	NaN
St. deviation:	4.4075	4.6289	NaN
Maximum:	21.469	25.445	NaN
Minimum:	7.9542	3.9650	NaN
Number of data:	29.000	28.000	NaN

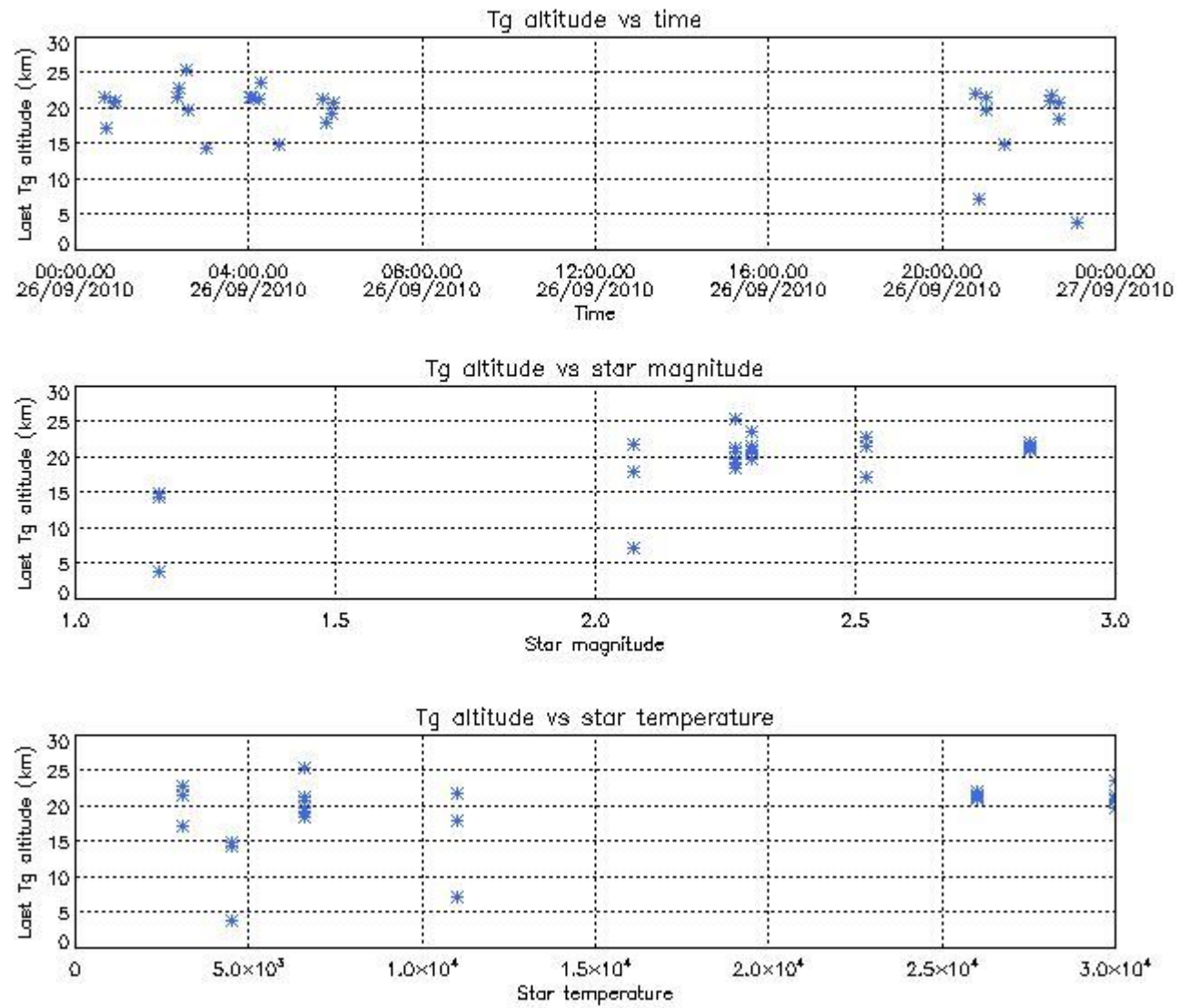
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

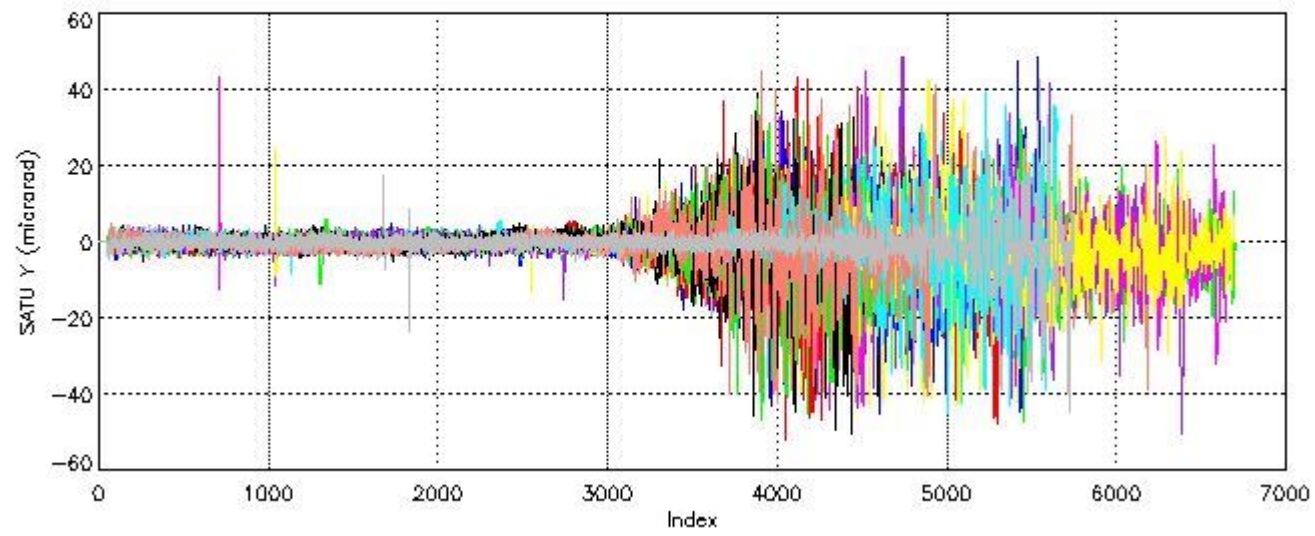
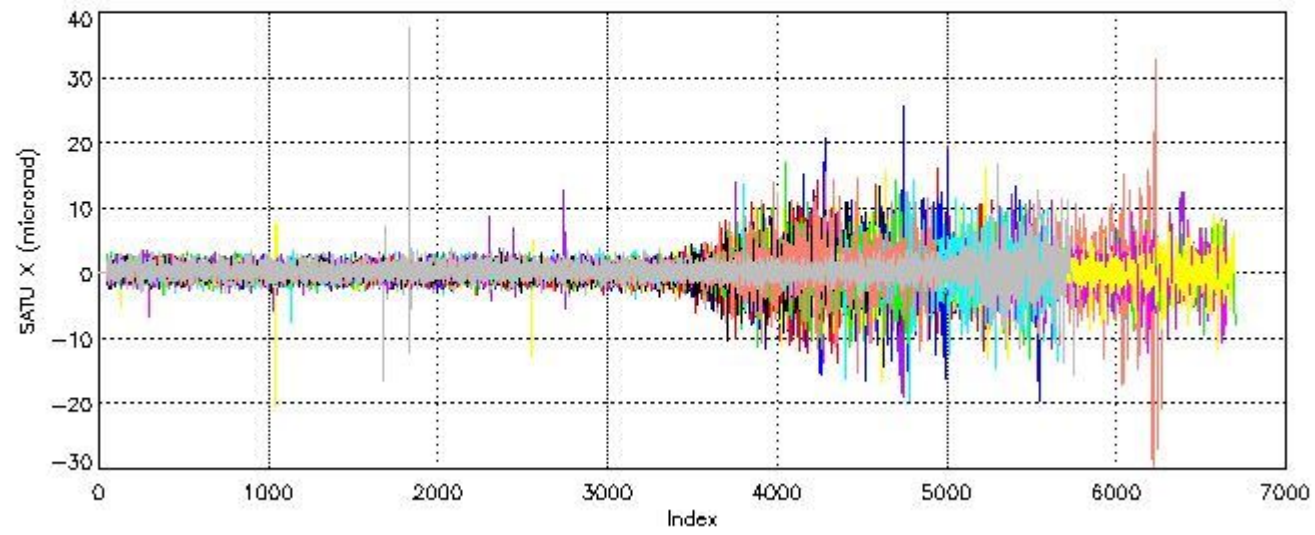


7. Star Acquisition and Tracking Unit (SATU)

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:	0.18021	-0.23474	0.24233	-0.19513
St. deviation:	0.63488	0.96670	0.79443	1.1213
Maximum:	7.5000	42.900	6.3000	7.5000
Minimum:	-20.600	-12.600	-5.7000	-7.2000

Number of data:	32450.	32450.	27950.	27950.
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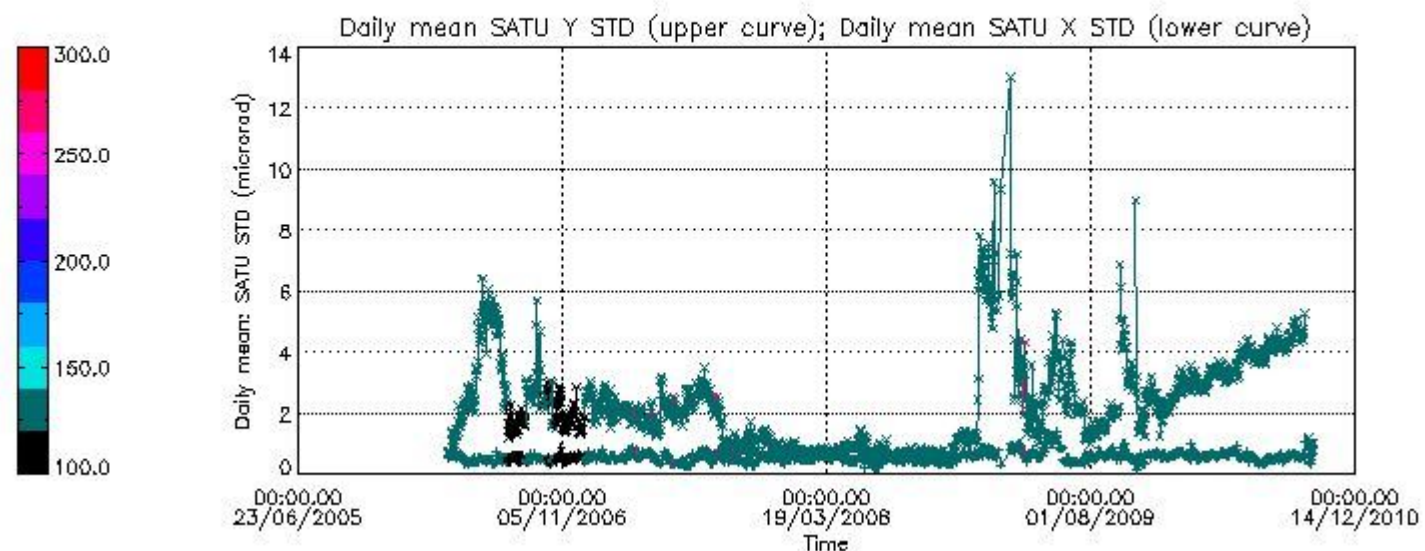
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

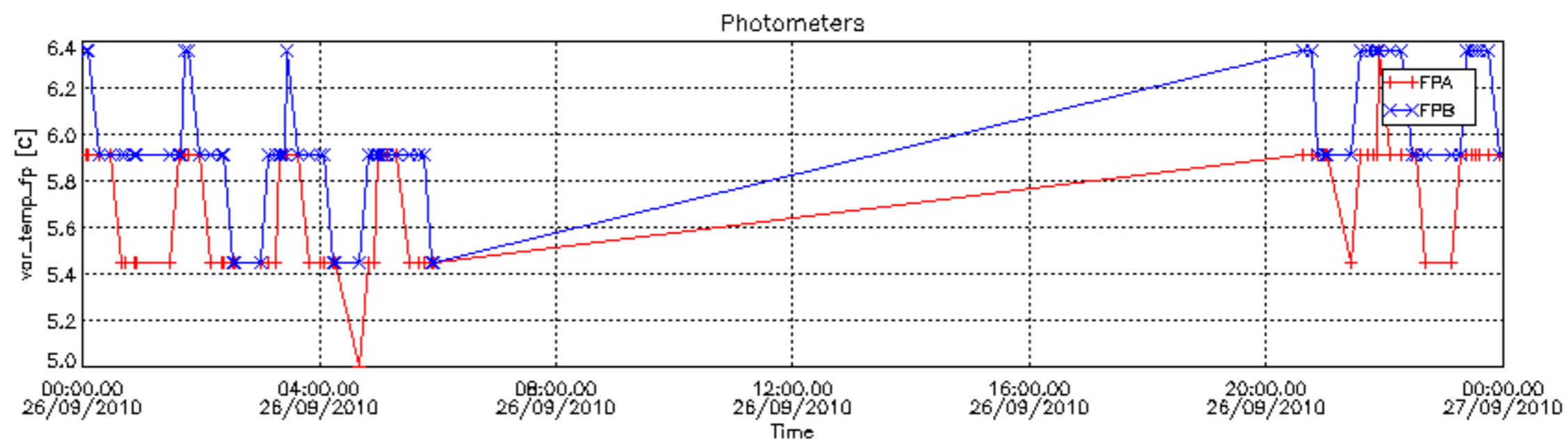
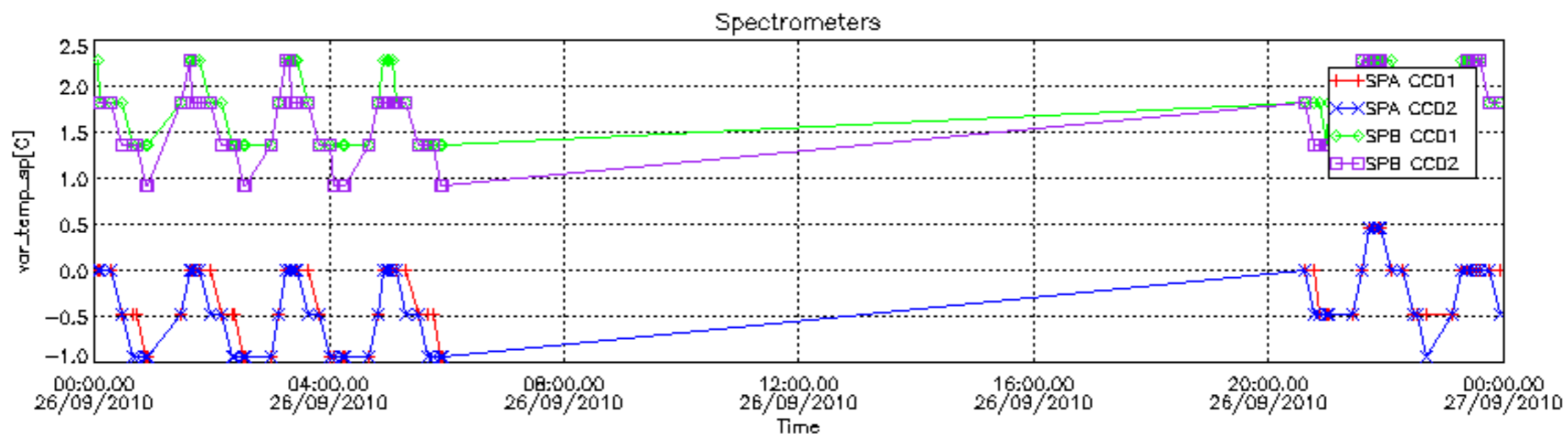
Lower curve: STD of SATU X axis

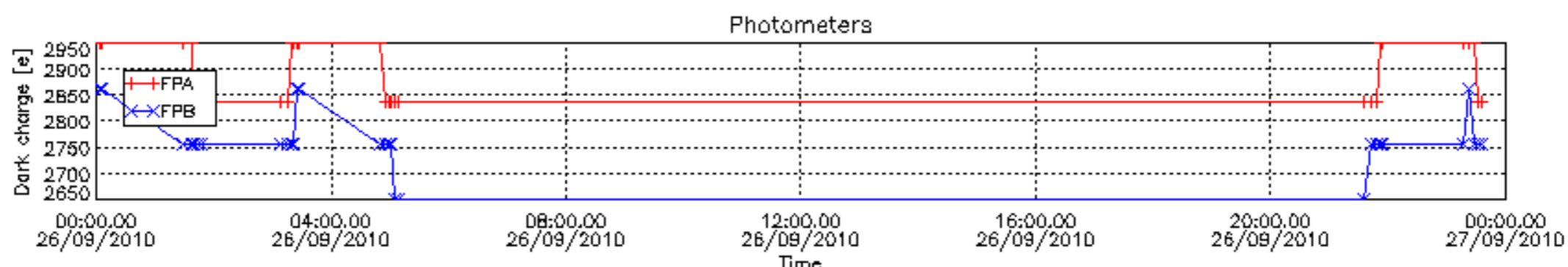
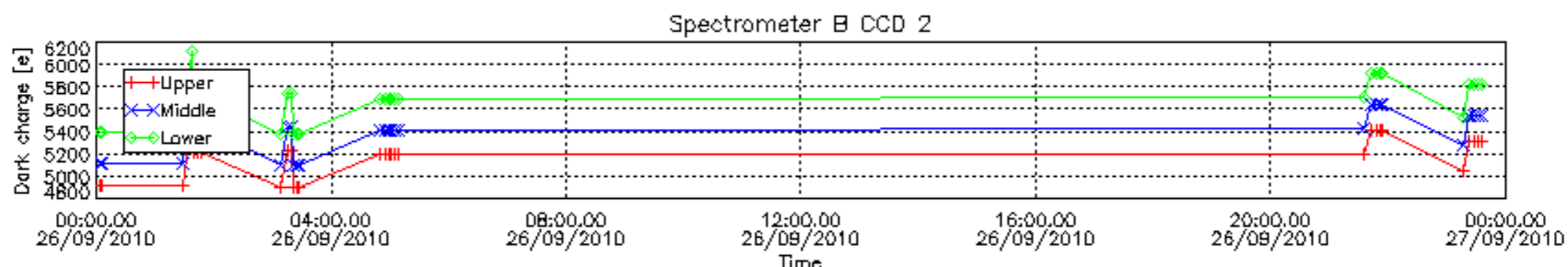
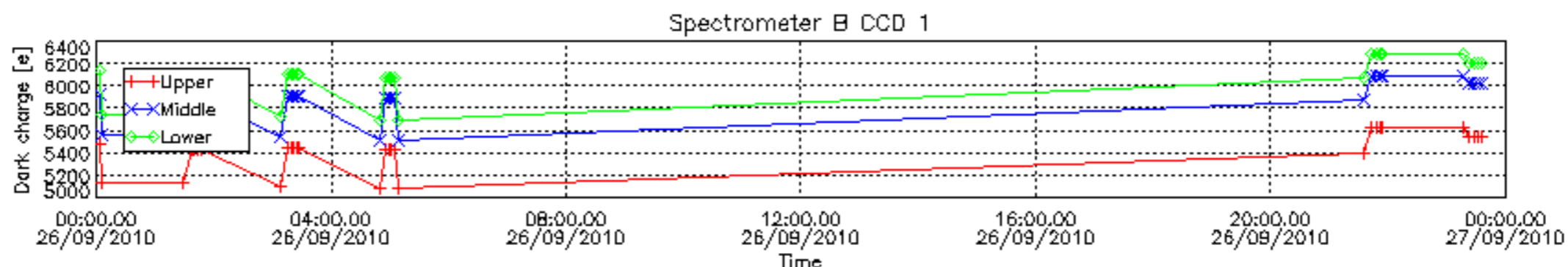
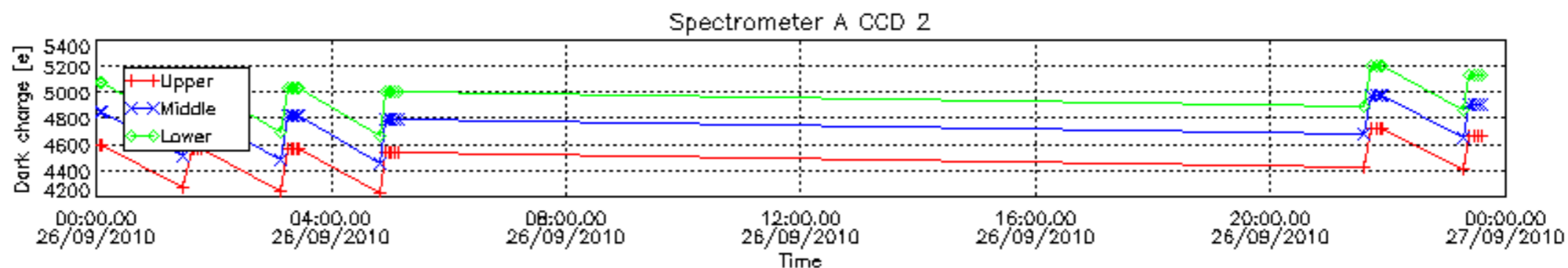
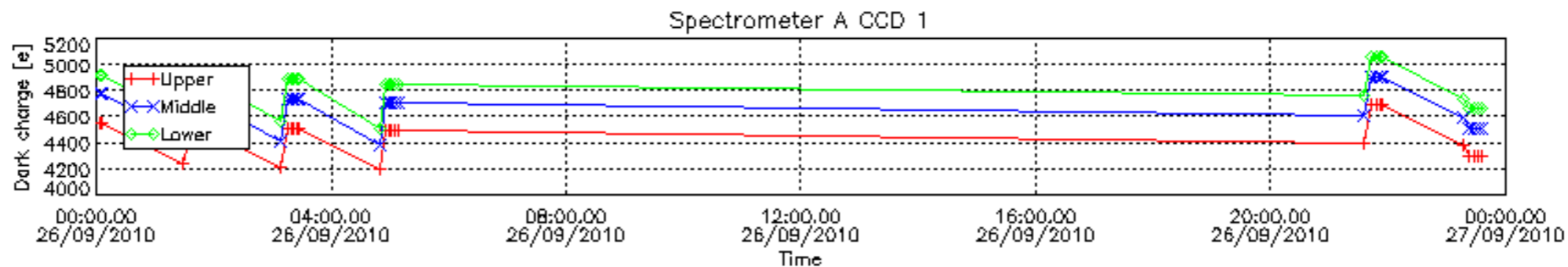


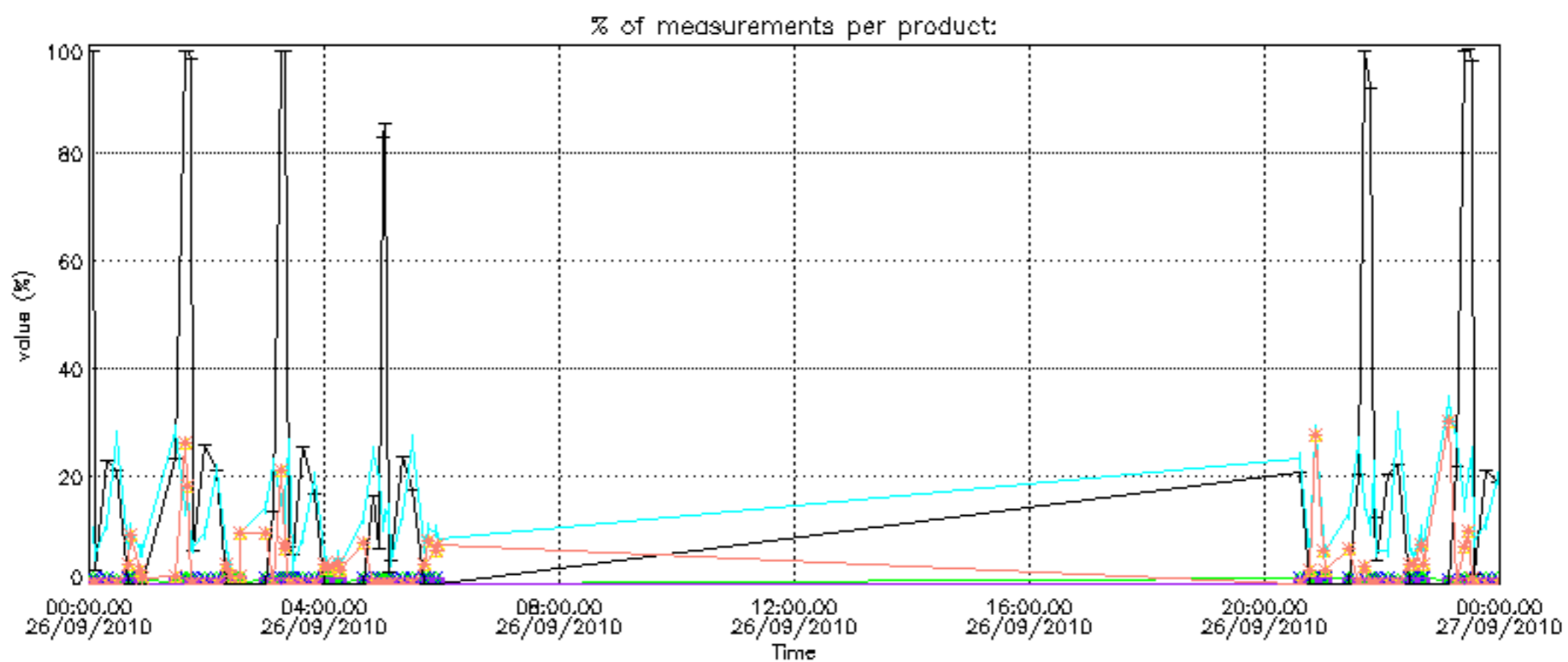
8. Auxiliary Data Files used for the production reported in section 2.4

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.

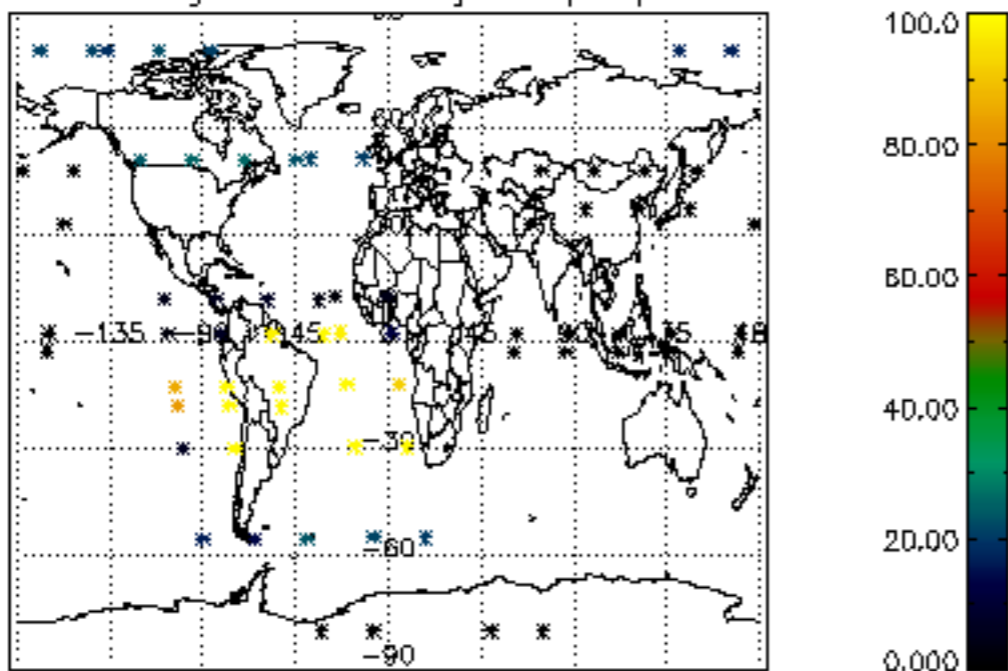
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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	26-SEP-2010 00:03:27
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-SEP-2010 00:03:27
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	26-SEP-2010 00:03:27
ECMWF_FILE	AUX_ECF_AXNECM20100925_053629_20100925_210000_20100926_090000	1	26-SEP-2010 00:03:27
ECMWF_FILE	AUX_ECF_AXNECM20100925_173630_20100926_030000_20100926_150000	33	26-SEP-2010 04:40:29
ECMWF_FILE	AUX_ECF_AXNECM20100926_054113_20100926_150000_20100927_030000	46	26-SEP-2010 20:35:55
ECMWF_FILE	AUX_ECF_AXNECM20100926_054113_20100926_210000_20100927_090000	53	26-SEP-2010 21:42:25
OPTIONAL_ECMWF_FILE	MISSING	1	26-SEP-2010 00:03:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100925_234657_000057382093_00173_44816_1138.N1	1	26-SEP-2010 00:03:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100926_012753_000041442093_00174_44817_1139.N1	10	26-SEP-2010 01:38:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100926_024217_000057382093_00175_44818_1140.N1	20	26-SEP-2010 02:59:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100926_042314_000057382093_00176_44819_1141.N1	33	26-SEP-2010 04:40:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100926_202454_000038252093_00186_44829_1142.N1	46	26-SEP-2010 20:35:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100926_213359_000057382093_00186_44829_1143.N1	53	26-SEP-2010 21:42:25
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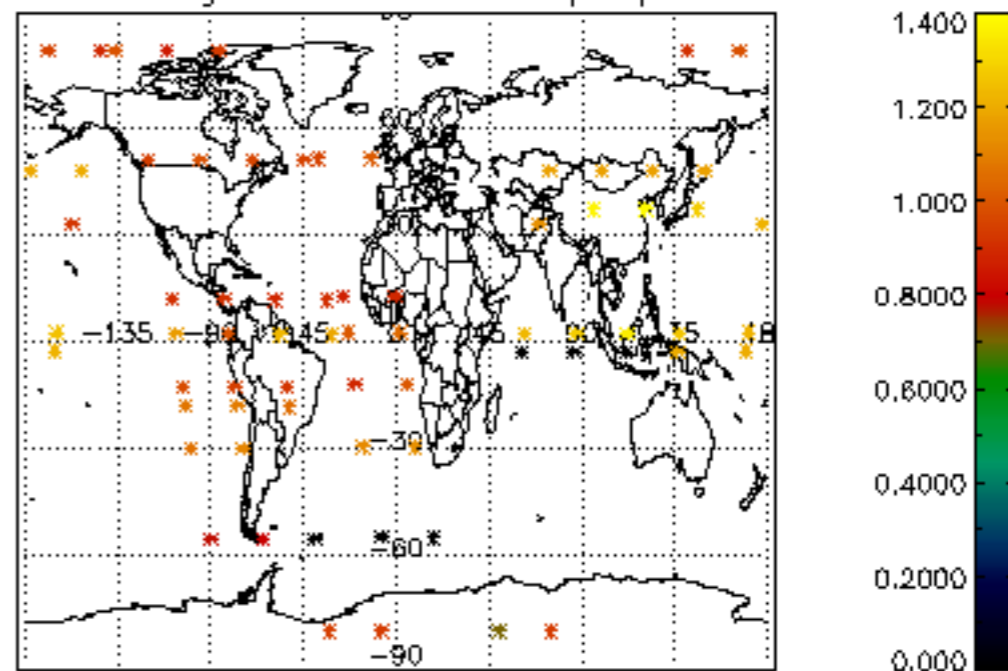




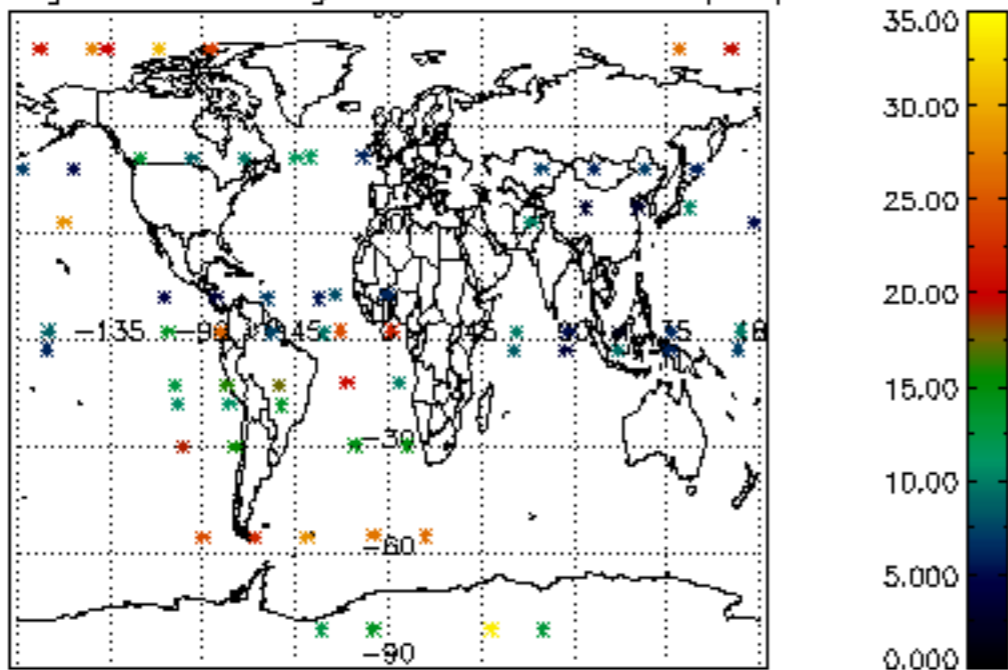
Percentage of cosmic ray hits per profile



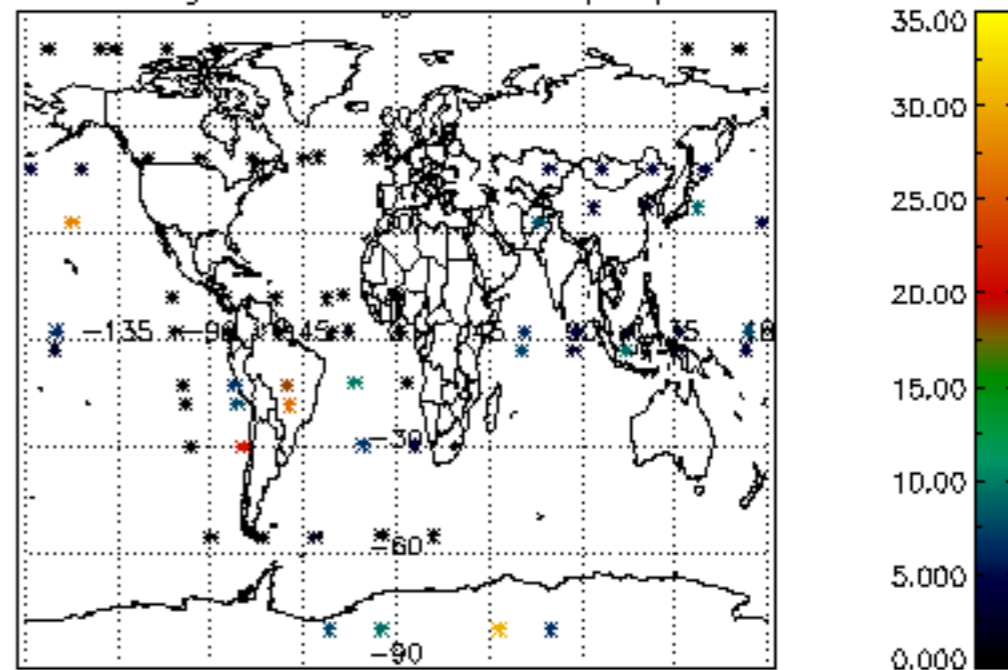
Percentage of datation errors per profile



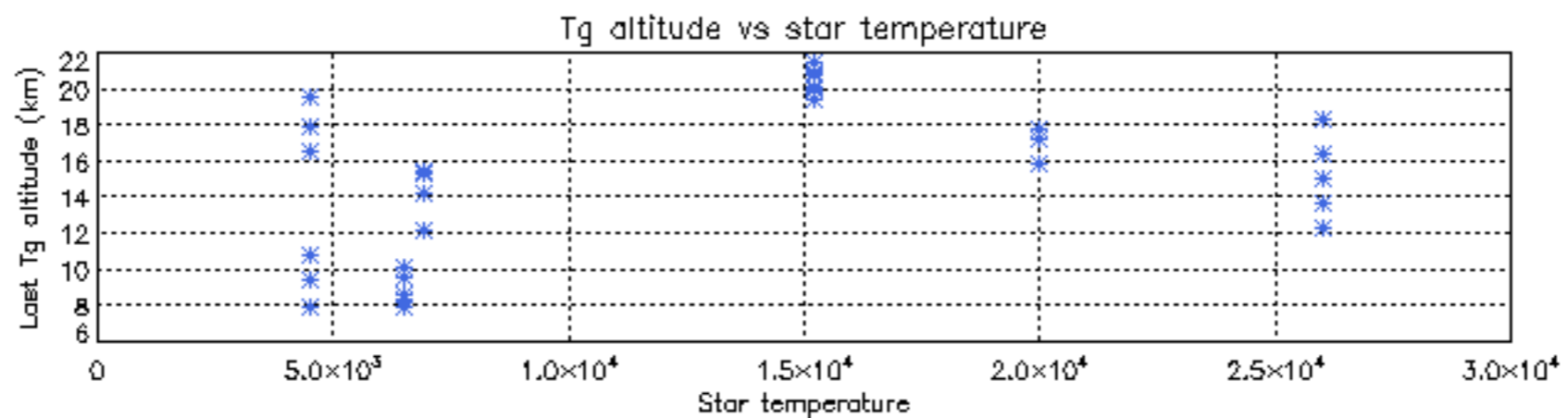
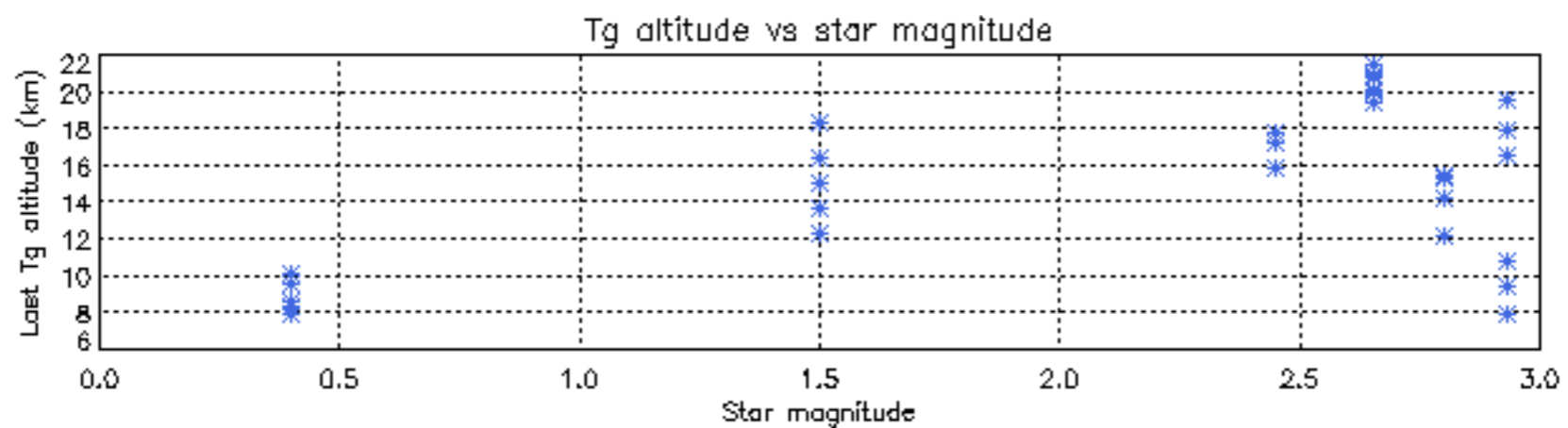
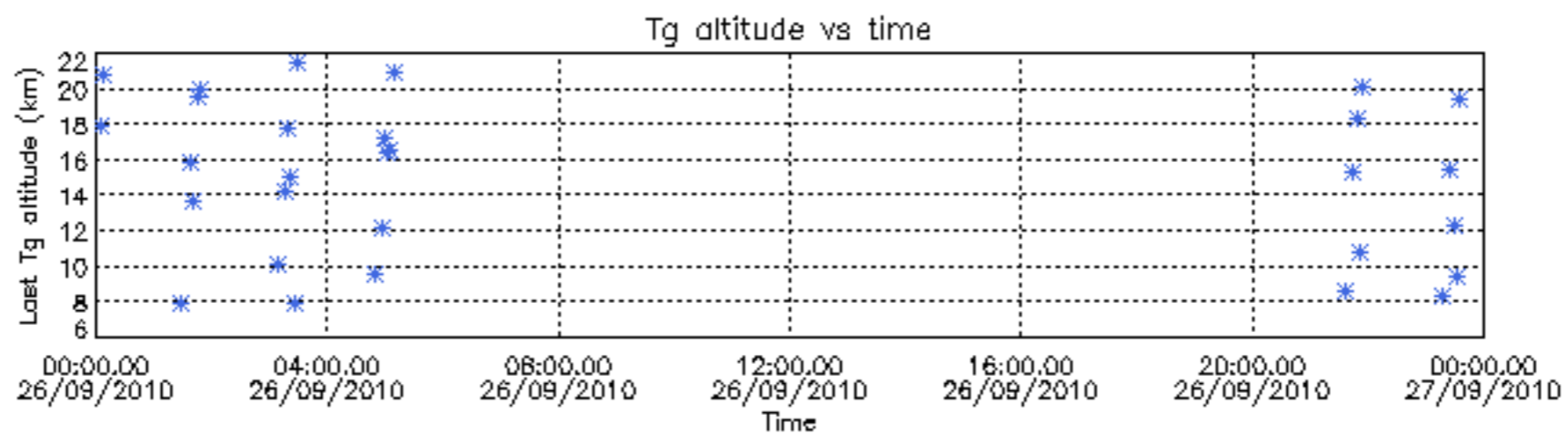
Percentage of star falling outside central band per profile



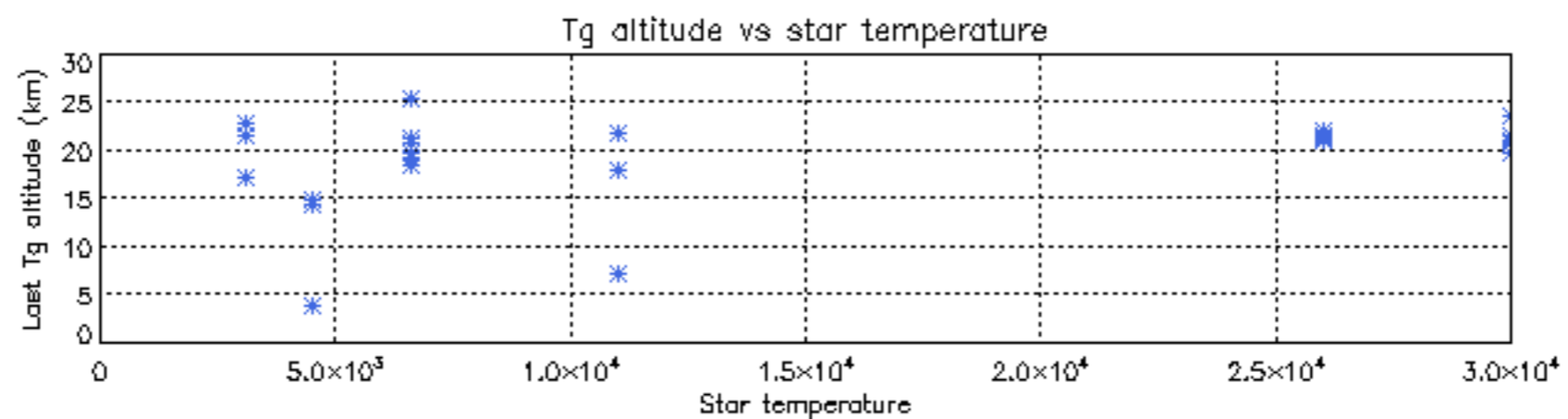
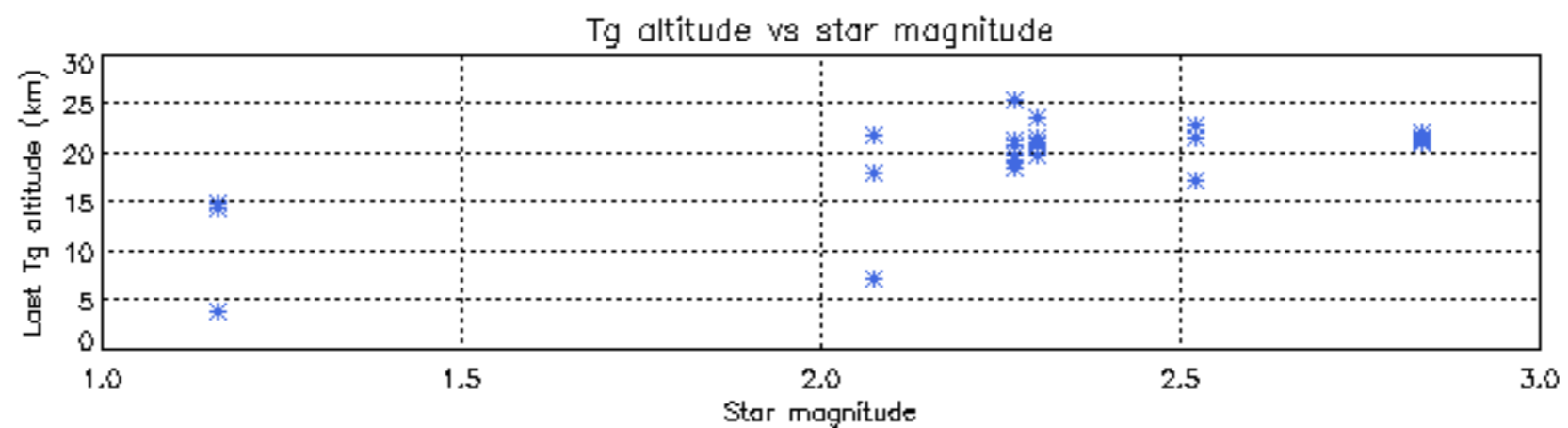
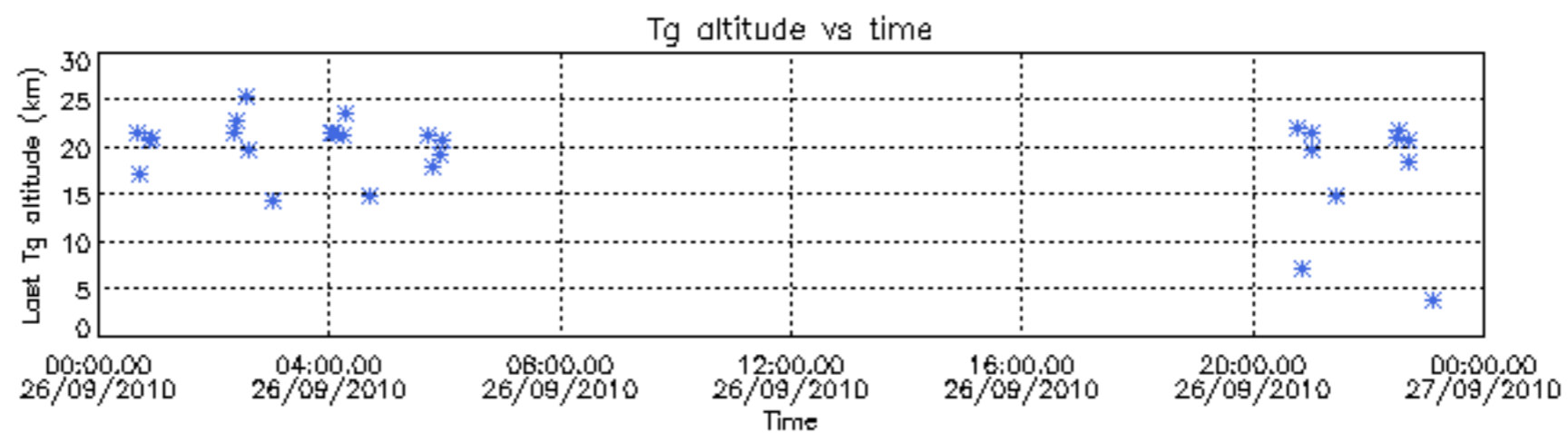
Percentage of saturation errors per profile

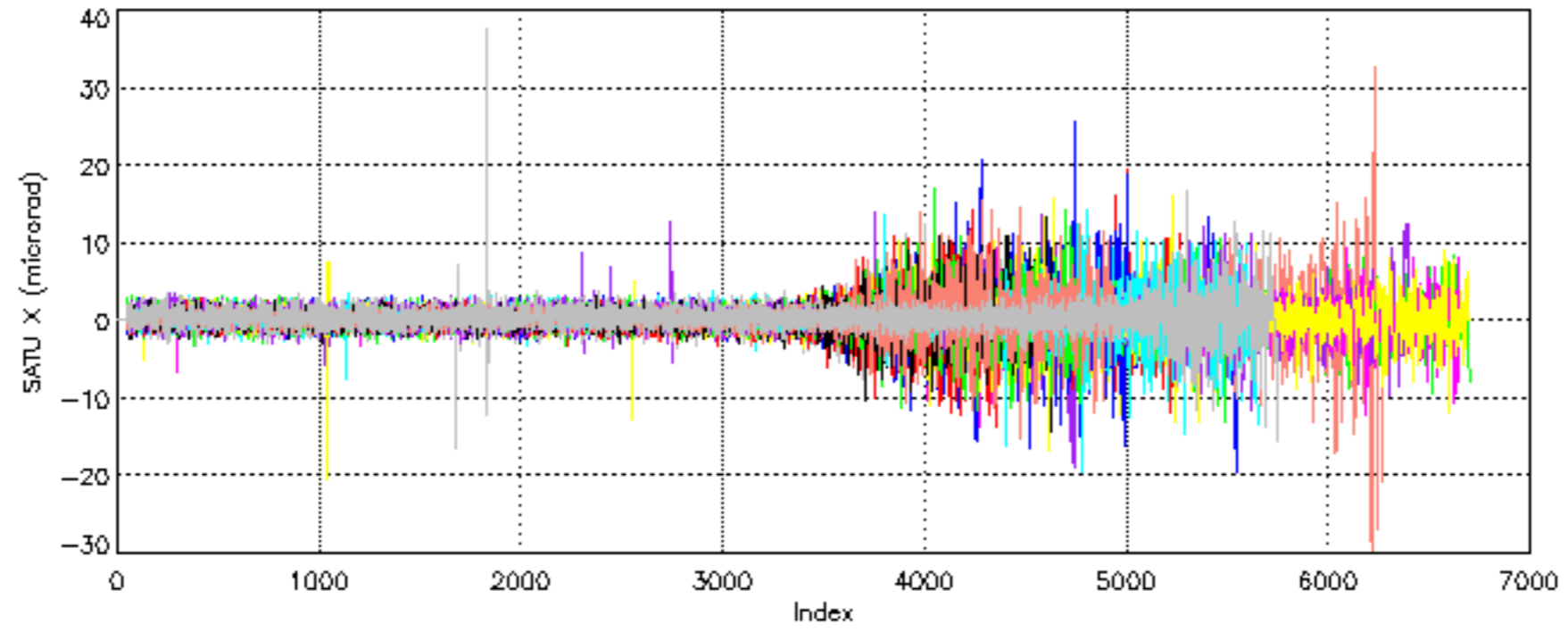


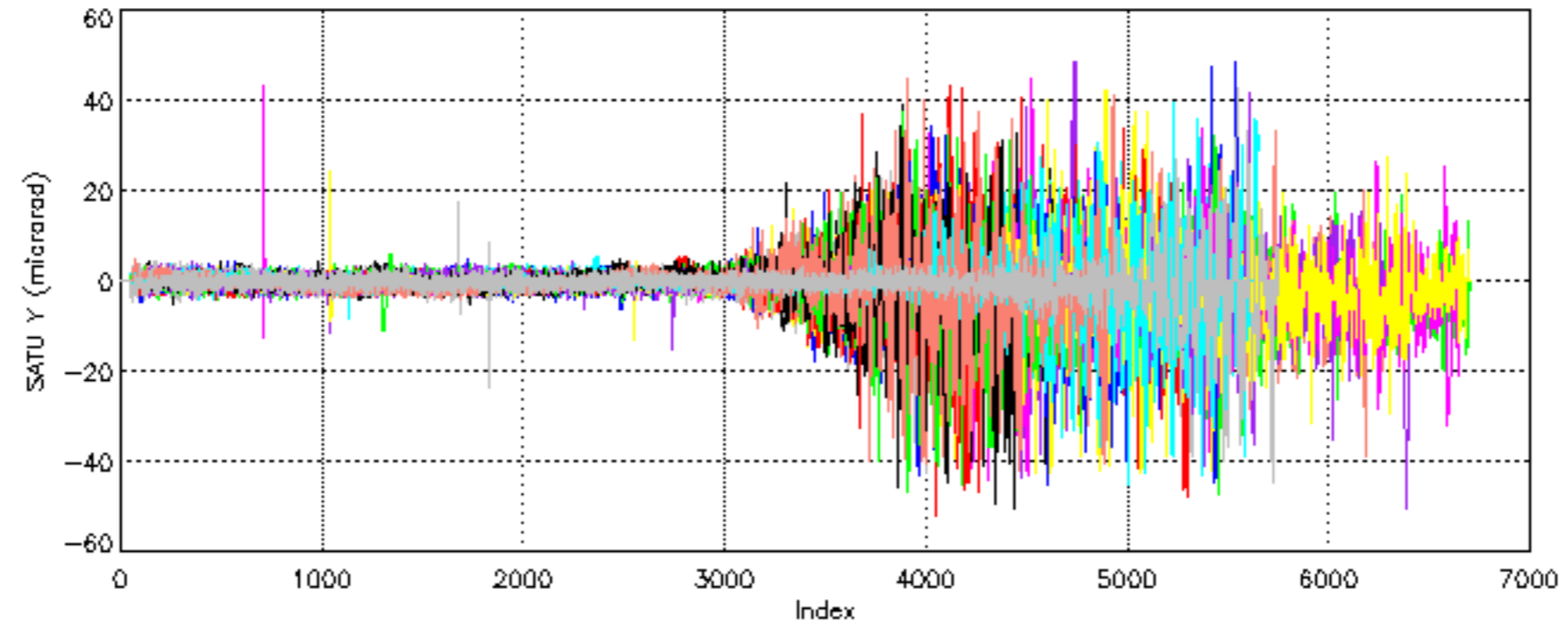
Tangent altitude at which the star is lost

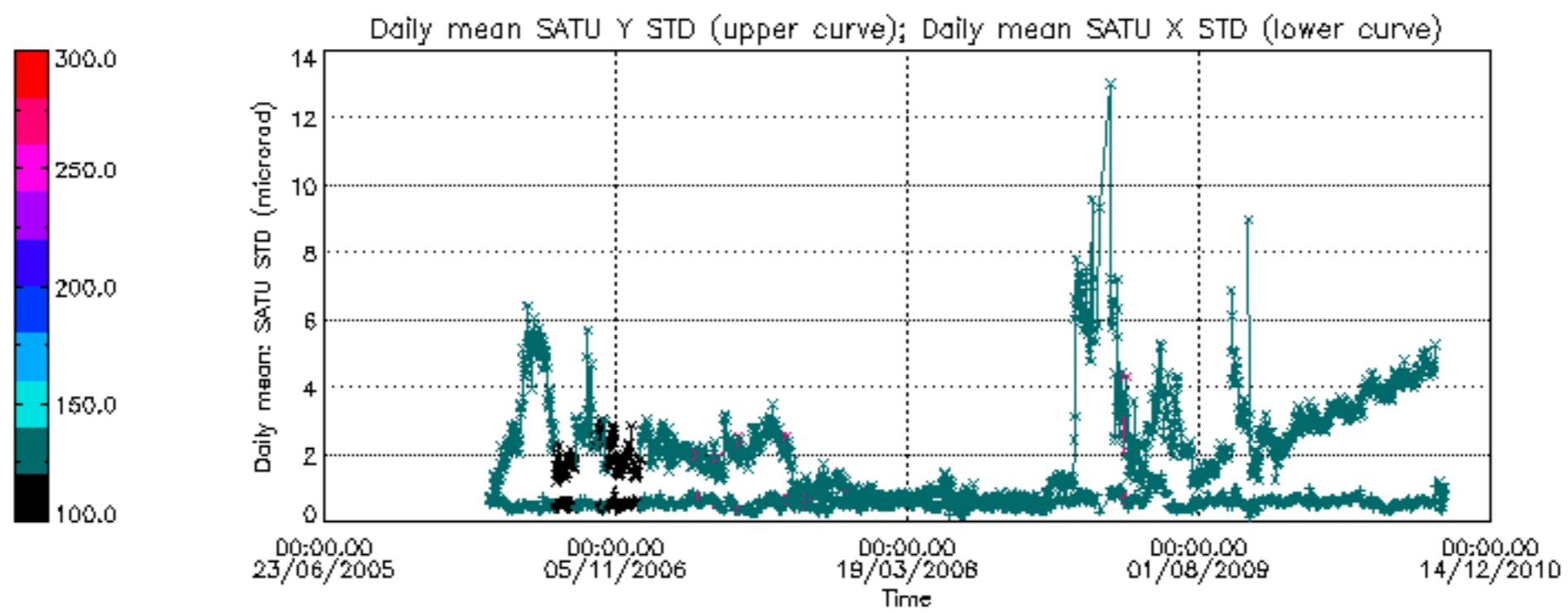


Tangent altitude at which the star is lost










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4; 3202.1; 08-SEP-2010 10:25:25; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;44565
5; 4466.3; 08-SEP-2010 10:46:30; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44565
6; 4638.5; 08-SEP-2010 10:49:22; Dark ; 53.5; 170; 27Eps Gem ; 3.00; 9700;occ; 107; 0;44565
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6; 4638.9; 08-SEP-2010 12:29:58; Dark ; 53.5; 170; 27Eps Gem ; 3.00; 9700;occ; 107; 0;44566
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4; 4466.6; 08-SEP-2010 14:07:42; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;44567
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5; 3200.5; 08-SEP-2010 15:27:11; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;44568
6; 4191.7; 08-SEP-2010 15:43:43; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;44568

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13; 5723.9; 08-SEP-2010 16:09:15; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;44568
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7; 4467.0; 08-SEP-2010 17:28:54; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;44569
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9; 4840.5; 08-SEP-2010 17:35:07; Dark ; 56.5; 44; 24Gam Gem ; 1.93; 11000;occ; 113; 0;44569
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7; 4467.1; 08-SEP-2010 19:09:30; Bright; 40.5; 24; 66Alp Gem ; 1.58; 10200;occ; 81; 0;44570
8; 4640.0; 08-SEP-2010 19:12:23; Dark ; 52.5; 170; 27Eps Gem ; 3.00; 9700;occ; 105; 0;44570
9; 4840.9; 08-SEP-2010 19:15:44; Dark ; 57.0; 44; 24Gam Gem ; 1.93; 11000;occ; 114; 0;44570
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13; 5725.9; 08-SEP-2010 19:30:29; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;44570
14; 5814.1; 08-SEP-2010 19:31:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44570
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13; 4641.0; 09-SEP-2010 01:54:48; Dark ; 54.5; 170; 27Eps Gem ; 3.00; 9700;occ; 109; 0;44574
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6; 1357.8; 09-SEP-2010 02:40:40; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;44575
7; 2203.3; 09-SEP-2010 02:54:46; Bright; 44.0; 90; 54Alp Peg ; 2.49; 11000;occ; 88; 0;44575
8; 2457.2; 09-SEP-2010 02:59:00; Bright; 42.5; 164; 44Eta Peg ; 2.95; 5400;occ; 85; 0;44575
9; 3077.3; 09-SEP-2010 03:09:20; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;44575
10; 3195.7; 09-SEP-2010 03:11:18; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44575
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2; -1568.3; 09-SEP-2010 03:32:30; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;44575
3; -1394.5; 09-SEP-2010 03:35:24; Dark ; 56.5; 170; 27Eps Gem ; 3.00; 9700;occ; 113; 0;44575
4; -1192.4; 09-SEP-2010 03:38:46; Dark ; 55.0; 44; 24Gam Gem ; 1.93; 11000;occ; 110; 0;44575
5; -1080.9; 09-SEP-2010 03:40:37; Dark ; 58.0; 8; 10Alp CMi ; 0.40; 6500;occ; 116; 0;44575
6; -581.3; 09-SEP-2010 03:48:57; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;44575
7; -430.0; 09-SEP-2010 03:51:28; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;44575
8; -306.0; 09-SEP-2010 03:53:32; Dark ; 45.5; 177; 1Zet CMA ; 3.02; 26000;occ; 91; 0;44575
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13; 1358.2; 09-SEP-2010 04:21:17; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;44576
14; 2203.6; 09-SEP-2010 04:35:22; Bright; 42.5; 90; 54Alp Peg ; 2.49; 11000;occ; 85; 0;44576
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16; 3076.7; 09-SEP-2010 04:49:55; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44576
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3; -1394.3; 09-SEP-2010 05:16:00; Dark ; 51.5; 170; 27Eps Gem ; 3.00; 9700;occ; 103; 0;44576
4; -1192.0; 09-SEP-2010 05:19:22; Dark ; 56.5; 44; 24Gam Gem ; 1.93; 11000;occ; 113; 0;44576
5; -1080.4; 09-SEP-2010 05:21:14; Dark ; 55.5; 8; 10Alp CMi ; 0.40; 6500;occ; 111; 0;44576
6; -580.5; 09-SEP-2010 05:29:34; Dark ; 60.5; 1; 9Alp CMA ; -1.44; 11000;occ; 121; 0;44576
7; -429.2; 09-SEP-2010 05:32:05; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;44576
8; -305.1; 09-SEP-2010 05:34:09; Dark ; 44.0; 177; 1Zet CMA ; 3.02; 26000;occ; 88; 0;44576
9; -217.1; 09-SEP-2010 05:35:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44576
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11; 671.1; 09-SEP-2010 05:50:26; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;44577
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13; 1358.4; 09-SEP-2010 06:01:53; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;44577
14; 2203.0; 09-SEP-2010 06:15:57; Bright; 43.0; 90; 54Alp Peg ; 2.49; 11000;occ; 86; 0;44577
15; 2456.9; 09-SEP-2010 06:20:11; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;44577
16; 3076.2; 09-SEP-2010 06:30:31; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;44577
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2; 4377.8; 09-SEP-2010 21:57:36; Bright; 57.0; 107; 37The Aur ; 2.65; 11000;occ; 114; 0;44586
3; 4849.2; 09-SEP-2010 22:05:27; Dark ; 57.5; 44; 24Gam Gem ; 1.93; 11000;occ; 115; 0;44586
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3; 4377.7; 09-SEP-2010 23:38:11; Bright; 55.0; 107; 37The Aur ; 2.65; 11000;occ; 110; 0;44587
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3; -1393.9; 09-SEP-2010 06:56:36; Dark ; 55.0; 170; 27Eps Gem ; 3.00; 9700;occ; 110; 0;44577
4; -1191.4; 09-SEP-2010 06:59:59; Dark ; 54.0; 44; 24Gam Gem ; 1.93; 11000;occ; 108; 0;44577
5; -1080.2; 09-SEP-2010 07:01:50; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;44577
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8; -304.0; 09-SEP-2010 07:14:46; Dark ; 45.5; 177; 1Zet CMA ; 3.02; 26000;occ; 91; 0;44577
9; -216.3; 09-SEP-2010 07:16:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44577
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11; 671.5; 09-SEP-2010 07:31:02; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;44578
12; 1023.4; 09-SEP-2010 07:36:54; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;44578
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3; 3076.1; 09-SEP-2010 08:11:06; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;44578

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7; 4642.3; 09-SEP-2010 08:37:13; Dark ; 52.5; 170; 27Eps Gem ; 3.00; 9700;occ; 105; 0;44578
8; 4845.2; 09-SEP-2010 08:40:36; Dark ; 57.0; 44; 24Gam Gem ; 1.93; 11000;occ; 114; 0;44578
9; 4956.2; 09-SEP-2010 08:42:27; Dark ; 49.5; 8; 10Alp CMi ; 0.40; 6500;occ; 99; 0;44578
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11; 5608.3; 09-SEP-2010 08:53:19; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;44578
12; 5732.9; 09-SEP-2010 08:55:23; Dark ; 46.5; 177; 1Zet CMA ; 3.02; 26000;occ; 93; 0;44578
13; 5820.5; 09-SEP-2010 08:56:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44578
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2; 2615.4; 09-SEP-2010 11:24:38; Bright; 51.5; 58; 21Alp And ; 2.07; 11000;occ; 103; 0;44580
3; 3015.7; 09-SEP-2010 11:31:18; Bright; 72.5; 53; 43Bet And ; 2.05; 3300;occ; 145; 0;44580
4; 3260.5; 09-SEP-2010 11:35:23; Bright; 45.5; 110; 37Del Cas ; 2.68; 8900;occ; 91; 0;44580
5; 3391.3; 09-SEP-2010 11:37:33; Bright; 77.5; 73; 57Gam1And ; 2.26; 13100;occ; 155; 0;44580
6; 3593.4; 09-SEP-2010 11:40:55; Bright; 58.0; 160; 23Gam Per ; 2.93; 4700;occ; 116; 0;44580
7; 3719.8; 09-SEP-2010 11:43:02; Bright; 68.5; 35; 33Alp Per ; 1.79; 6250;occ; 137; 0;44580
8; 3834.2; 09-SEP-2010 11:44:56; Bright; 68.0; 175; 39Del Per ; 3.01; 19400;occ; 136; 0;44580
9; 4118.1; 09-SEP-2010 11:49:40; Bright; 65.0; 6; 13Alp Aur ; 0.08; 3400;occ; 130; 0;44580
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11; 4649.8; 09-SEP-2010 11:58:32; Dark ; 81.5; 28; 12Bet Tau ; 1.65; 15200;occ; 163; 0;44580
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13; 5189.9; 09-SEP-2010 12:07:32; Dark ; 100.0; 14; 58Alp Ori ; 0.87; 3000;occ; 200; 0;44580
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2; 2611.6; 09-SEP-2010 18:06:57; Bright; 54.5; 58; 21Alp And ; 2.07; 11000;occ; 109; 0;44584
3; 3589.5; 09-SEP-2010 18:23:15; Bright; 59.5; 160; 23Gam Per ; 2.93; 4700;occ; 119; 0;44584
4; 4116.7; 09-SEP-2010 18:32:03; Bright; 61.0; 6; 13Alp Aur ; 0.08; 3400;occ; 122; 0;44584
5; 4378.0; 09-SEP-2010 18:36:24; Bright; 49.0; 107; 37The Aur ; 2.65; 11000;occ; 98; 0;44584
6; 5954.5; 09-SEP-2010 19:02:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44584
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3; 4116.1; 09-SEP-2010 20:12:38; Bright; 68.0; 6; 13Alp Aur ; 0.08; 3400;occ; 136; 0;44585
4; 4377.8; 09-SEP-2010 20:17:00; Bright; 54.0; 107; 37The Aur ; 2.65; 11000;occ; 108; 0;44585
5; 5955.8; 09-SEP-2010 20:43:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44585
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3; 4114.8; 10-SEP-2010 01:14:24; Bright; 68.5; 6; 13Alp Aur ; 0.08; 3400;occ; 137; 0;44588
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3; -74.4; 10-SEP-2010 03:25:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44589
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5; 1514.3; 10-SEP-2010 03:52:16; Dark ; 68.0; 52; 16Bet Cet ; 2.04; 4500;occ; 136; 0;44590
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3; 637.0; 10-SEP-2010 06:58:50; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;44592

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3; 4377.5; 10-SEP-2010 09:41:47; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;44593
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9; 7550.4; 10-SEP-2010 12:15:15; Dark ; 71.0; 52; 16Bet Cet ; 2.04; 4500;occ; 142; 0;44595
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4; 4377.4; 10-SEP-2010 13:02:58; Bright; 59.0; 107; 37The Aur ; 2.65; 11000;occ; 118; 0;44595
5; 5209.9; 10-SEP-2010 13:16:51; Dark ; 90.5; 14; 58Alp Ori ; 0.87; 3000;occ; 181; 0;44595
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2; 2566.7; 13-SEP-2010 09:17:20; Bright; 52.0; 58; 21Alp And ; 2.07; 11000;occ; 104; 0;44636
3; 3536.5; 13-SEP-2010 09:33:30; Bright; 59.5; 160; 23Gam Per ; 2.93; 4700;occ; 119; 0;44636
4; 4376.0; 13-SEP-2010 09:47:30; Bright; 57.0; 107; 37The Aur ; 2.65; 11000;occ; 114; 0;44636
5; 4879.3; 13-SEP-2010 09:55:53; Dark ; 61.5; 44; 24Gam Gem ; 1.93; 11000;occ; 123; 0;44636
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2; 2565.8; 13-SEP-2010 10:57:55; Bright; 52.0; 58; 21Alp And ; 2.07; 11000;occ; 104; 0;44637
3; 4375.8; 13-SEP-2010 11:28:05; Bright; 54.0; 107; 37The Aur ; 2.65; 11000;occ; 108; 0;44637
4; 4879.8; 13-SEP-2010 11:36:29; Dark ; 59.0; 44; 24Gam Gem ; 1.93; 11000;occ; 118; 0;44637
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3; 2177.8; 16-SEP-2010 21:00:48; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;44686
4; 2409.2; 16-SEP-2010 21:04:39; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;44686
5; 2530.2; 16-SEP-2010 21:06:40; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44686
6; 3023.0; 16-SEP-2010 21:14:53; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44686
7; 3129.8; 16-SEP-2010 21:16:40; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;44686
8; 4482.9; 16-SEP-2010 21:39:13; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44686
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5; 28.8; 16-SEP-2010 22:05:34; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;44687
6; 643.1; 16-SEP-2010 22:15:49; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;44687
7; 728.9; 16-SEP-2010 22:17:15; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;44687
8; 1071.7; 16-SEP-2010 22:22:57; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;44687
9; 1528.8; 16-SEP-2010 22:30:34; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;44687
10; 2177.6; 16-SEP-2010 22:41:23; Bright; 40.5; 90; 54Alp Peg ; 2.49; 11000;occ; 81; 0;44687

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15; 4482.9; 16-SEP-2010 23:19:49; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44687
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 3; 1069.1; 16-SEP-2010 10:38:43; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44680
 4; 1527.9; 16-SEP-2010 10:46:22; Dark ; 24.5; 52; 16Bet Cet ; 2.04; 4500;occ; 49; 0;44680
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 3; 3025.8; 16-SEP-2010 11:11:20; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;44680
 4; 3133.0; 16-SEP-2010 11:13:07; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;44680
 5; 4482.1; 16-SEP-2010 11:35:36; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44680
 6; 5004.8; 16-SEP-2010 11:44:19; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;44680
 7; 5450.5; 16-SEP-2010 11:51:45; Dark ; 39.0; 132; 15Rho Pup ; 2.80; 6900;occ; 78; 0;44680
 8; 5553.8; 16-SEP-2010 11:53:28; Dark ; 64.5; 1; 9Alp CMa ; -1.44; 11000;occ; 129; 0;44680
 9; 5669.5; 16-SEP-2010 11:55:24; Dark ; 30.0; 47; 2Bet CMa ; 1.98; 28000;occ; 60; 0;44680
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11; 5909.2; 16-SEP-2010 11:59:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44680
12; 6061.2; 16-SEP-2010 12:01:55; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;44681
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14; 6761.9; 16-SEP-2010 12:13:36; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;44681
15; 7105.4; 16-SEP-2010 12:19:20; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;44681
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 2; 2410.7; 16-SEP-2010 12:41:41; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;44681
 3; 3025.3; 16-SEP-2010 12:51:55; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44681
 4; 3132.7; 16-SEP-2010 12:53:43; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44681
 5; 4482.3; 16-SEP-2010 13:16:12; Bright; 43.5; 24; 66Alp Gem ; 1.58; 10200;occ; 87; 0;44681
 6; 5005.4; 16-SEP-2010 13:24:55; Dark ; 52.5; 8; 10Alp CMi ; 0.40; 6500;occ; 105; 0;44681
 7; 5451.2; 16-SEP-2010 13:32:21; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;44681
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12; 6061.8; 16-SEP-2010 13:42:32; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44682
13; 6676.8; 16-SEP-2010 13:52:47; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;44682
14; 6762.4; 16-SEP-2010 13:54:12; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;44682
15; 7105.9; 16-SEP-2010 13:59:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;44682
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 3; 2410.4; 16-SEP-2010 14:22:16; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44682
 4; 2533.0; 16-SEP-2010 14:24:19; Bright; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;44682
 5; 3024.9; 16-SEP-2010 14:32:31; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;44682
 6; 3132.1; 16-SEP-2010 14:34:18; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44682
 7; 4482.5; 16-SEP-2010 14:56:48; Bright; 41.5; 24; 66Alp Gem ; 1.58; 10200;occ; 83; 0;44682
 8; 5006.1; 16-SEP-2010 15:05:32; Dark ; 57.0; 8; 10Alp CMi ; 0.40; 6500;occ; 114; 0;44682
 9; 5451.7; 16-SEP-2010 15:12:58; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;44682
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13; 6062.4; 16-SEP-2010 15:23:08; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;44683
14; 6677.2; 16-SEP-2010 15:33:23; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44683
15; 6762.9; 16-SEP-2010 15:34:49; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;44683
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 3; 2410.1; 16-SEP-2010 16:02:52; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;44683
 4; 2532.4; 16-SEP-2010 16:04:54; Bright; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;44683
 5; 3024.4; 16-SEP-2010 16:13:06; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44683

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7; 4482.5; 16-SEP-2010 16:37:24; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;44683
8; 5006.5; 16-SEP-2010 16:46:08; Dark ; 61.0; 8; 10Alp CMI ; 0.40; 6500;occ; 122; 0;44683
9; 5452.2; 16-SEP-2010 16:53:34; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;44683
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12; 5912.1; 16-SEP-2010 17:01:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44683
13; 6063.3; 16-SEP-2010 17:03:45; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44684
14; 6677.9; 16-SEP-2010 17:14:00; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;44684
15; 6763.4; 16-SEP-2010 17:15:25; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;44684
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3; 2409.9; 16-SEP-2010 17:43:28; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44684
4; 2531.6; 16-SEP-2010 17:45:30; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;44684
5; 3023.9; 16-SEP-2010 17:53:42; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44684
6; 3131.0; 16-SEP-2010 17:55:29; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44684
7; 4482.7; 16-SEP-2010 18:18:01; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;44684
8; 5007.0; 16-SEP-2010 18:26:45; Dark ; 59.5; 8; 10Alp CMI ; 0.40; 6500;occ; 119; 0;44684
9; 5452.6; 16-SEP-2010 18:34:11; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44684
10; 5558.5; 16-SEP-2010 18:35:56; Dark ; 62.0; 1; 9Alp CMA ; -1.44; 11000;occ; 124; 0;44684
11; 5689.3; 16-SEP-2010 18:38:07; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;44684
12; 5913.1; 16-SEP-2010 18:41:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44684
13; 6063.9; 16-SEP-2010 18:44:22; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;44685
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4; -120.1; 16-SEP-2010 23:43:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44687
5; 29.4; 16-SEP-2010 23:46:11; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;44688
6; 643.3; 16-SEP-2010 23:56:25; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;44688
7; 729.2; 16-SEP-2010 23:57:51; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;44688
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10; 2177.6; 17-SEP-2010 00:21:59; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;44688
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12; 2528.9; 17-SEP-2010 00:27:50; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;44688
13; 3022.1; 17-SEP-2010 00:36:04; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;44688
14; 3128.4; 17-SEP-2010 00:37:50; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;44688
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3; 2178.0; 16-SEP-2010 19:20:12; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;44685
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5; 2530.9; 16-SEP-2010 19:26:05; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;44685
6; 3023.6; 16-SEP-2010 19:34:18; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44685
7; 3130.4; 16-SEP-2010 19:36:04; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;44685
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10; 1541.6; 23-SEP-2010 03:44:04; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;44776
11; 2168.1; 23-SEP-2010 03:54:30; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;44776
12; 2392.9; 23-SEP-2010 03:58:15; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;44776
13; 2479.0; 23-SEP-2010 03:59:41; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;44776
14; 2987.2; 23-SEP-2010 04:08:09; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44776
15; 3082.9; 23-SEP-2010 04:09:45; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44776
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 4; -342.5; 23-SEP-2010 04:53:16; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44776
 5; -260.4; 23-SEP-2010 04:54:38; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;44776
 6; -121.5; 23-SEP-2010 04:56:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44776
 7; 5.4; 23-SEP-2010 04:59:04; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;44776
 8; 87.9; 23-SEP-2010 05:00:26; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;44777
 9; 771.5; 23-SEP-2010 05:11:50; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;44777
10; 1105.3; 23-SEP-2010 05:17:23; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;44777
11; 1541.6; 23-SEP-2010 05:24:40; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;44777
12; 2168.0; 23-SEP-2010 05:35:06; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44777
13; 2392.9; 23-SEP-2010 05:38:51; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;44777
14; 2478.6; 23-SEP-2010 05:40:17; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44777
15; 2986.6; 23-SEP-2010 05:48:45; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44777
16; 3082.2; 23-SEP-2010 05:50:20; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44777

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2; 2167.7; 23-SEP-2010 15:38:41; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;44783
3; 2392.2; 23-SEP-2010 15:42:26; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;44783
4; 2475.7; 23-SEP-2010 15:43:49; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44783
5; 2984.7; 23-SEP-2010 15:52:18; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44783
6; 3079.6; 23-SEP-2010 15:53:53; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44783
7; 4496.5; 23-SEP-2010 16:17:30; Bright; 47.5; 24; 66Alp Gem ; 1.58; 10200;occ; 95; 0;44783
8; 5069.5; 23-SEP-2010 16:27:03; Dark ; 69.0; 8; 10Alp CMi ; 0.40; 6500;occ; 138; 0;44783
9; 5508.2; 23-SEP-2010 16:34:22; Dark ; 40.5; 132; 15Rho Pup ; 2.80; 6900;occ; 81; 0;44783
10; 5681.4; 23-SEP-2010 16:37:15; Dark ; 67.0; 1; 9Alp CMA ; -1.44; 11000;occ; 134; 0;44783
11; 5782.9; 23-SEP-2010 16:38:56; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;44783
12; 5919.0; 23-SEP-2010 16:41:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44783
13; 6046.0; 23-SEP-2010 16:43:20; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;44784
14; 6183.2; 23-SEP-2010 16:45:37; Dark ; 54.0; 108; Alp Col ; 2.65; 15200;occ; 108; 0;44784
15; 6864.6; 23-SEP-2010 16:56:58; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;44784
16; 7143.8; 23-SEP-2010 17:01:37; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;44784

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2; 2167.8; 23-SEP-2010 17:19:17; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;44784
3; 2391.8; 23-SEP-2010 17:23:01; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;44784
4; 2475.3; 23-SEP-2010 17:24:25; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44784
5; 2984.2; 23-SEP-2010 17:32:54; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44784
6; 3079.0; 23-SEP-2010 17:34:29; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44784
7; 4496.5; 23-SEP-2010 17:58:06; Bright; 49.5; 24; 66Alp Gem ; 1.58; 10200;occ; 99; 0;44784
8; 5070.1; 23-SEP-2010 18:07:40; Dark ; 63.5; 8; 10Alp CMi ; 0.40; 6500;occ; 127; 0;44784
9; 5508.9; 23-SEP-2010 18:14:58; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;44784
10; 5682.8; 23-SEP-2010 18:17:52; Dark ; 61.0; 1; 9Alp CMA ; -1.44; 11000;occ; 122; 0;44784
11; 5783.8; 23-SEP-2010 18:19:33; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;44784
12; 5919.7; 23-SEP-2010 18:21:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44784
13; 6046.8; 23-SEP-2010 18:23:56; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;44785
14; 6184.6; 23-SEP-2010 18:26:14; Dark ; 55.5; 108; Alp Col ; 2.65; 15200;occ; 111; 0;44785
15; 6865.4; 23-SEP-2010 18:37:35; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44785
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2; 1542.9; 23-SEP-2010 18:49:28; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;44785
3; 2167.5; 23-SEP-2010 18:59:53; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44785
4; 2391.7; 23-SEP-2010 19:03:37; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;44785
5; 2474.9; 23-SEP-2010 19:05:00; Bright; 42.0; 58; 21Alp And ; 2.07; 11000;occ; 84; 0;44785
6; 2984.0; 23-SEP-2010 19:13:30; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;44785
7; 3078.3; 23-SEP-2010 19:15:04; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44785
8; 4496.8; 23-SEP-2010 19:38:42; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;44785
9; 5070.8; 23-SEP-2010 19:48:16; Dark ; 71.0; 8; 10Alp CMi ; 0.40; 6500;occ; 142; 0;44785
10; 5509.3; 23-SEP-2010 19:55:35; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;44785
11; 5683.9; 23-SEP-2010 19:58:29; Dark ; 61.0; 1; 9Alp CMA ; -1.44; 11000;occ; 122; 0;44785
12; 5784.9; 23-SEP-2010 20:00:10; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;44785
13; 5920.3; 23-SEP-2010 20:02:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44785
14; 6047.4; 23-SEP-2010 20:04:33; Dark ; 51.0; 161; Tau Pup ; 2.93; 4500;occ; 102; 0;44786
15; 6185.8; 23-SEP-2010 20:06:51; Dark ; 55.5; 108; Alp Col ; 2.65; 15200;occ; 111; 0;44786
16; 6866.3; 23-SEP-2010 20:18:12; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44786

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2; 2166.8; 24-SEP-2010 20:08:51; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44800
3; 2390.0; 24-SEP-2010 20:12:34; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;44800
4; 2978.5; 24-SEP-2010 20:22:23; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44800
5; 3071.1; 24-SEP-2010 20:23:55; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44800
6; 4498.7; 24-SEP-2010 20:47:43; Bright; 51.0; 24; 66Alp Gem ; 1.58; 10200;occ; 102; 0;44800

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2; -516.9; 24-SEP-2010 21:04:43; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44800
3; -321.7; 24-SEP-2010 21:07:59; Dark ; 43.0; 88; 31Eta CMA ; 2.45; 20000;occ; 86; 0;44800
4; -235.2; 24-SEP-2010 21:09:25; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;44800
5; -105.9; 24-SEP-2010 21:11:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44800
6; 171.0; 24-SEP-2010 21:16:11; Dark ; 56.5; 108; Alp Col ; 2.65; 15200;occ; 113; 0;44801
7; 842.9; 24-SEP-2010 21:27:23; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;44801
8; 1544.9; 24-SEP-2010 21:39:05; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;44801
9; 2166.6; 24-SEP-2010 21:49:27; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44801

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10; 2389.9; 24-SEP-2010 21:53:10; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;44801
11; 2978.1; 24-SEP-2010 22:02:58; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44801
12; 3070.6; 24-SEP-2010 22:04:31; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;44801
13; 4498.8; 24-SEP-2010 22:28:19; Bright; 52.5; 24; 66Alp Gem ; 1.58; 10200;occ; 105; 0;44801
14; 5082.6; 24-SEP-2010 22:38:03; Dark ; 61.5; 8; 10Alp CMi ; 0.40; 6500;occ; 123; 0;44801
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 2; -234.4; 24-SEP-2010 22:50:02; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;44801
 3; -105.2; 24-SEP-2010 22:52:11; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44801
 4; 172.6; 24-SEP-2010 22:56:49; Dark ; 53.0; 108; Alp Col ; 2.65; 15200;occ; 106; 0;44802
 5; 843.7; 24-SEP-2010 23:08:00; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;44802
 6; 1544.9; 24-SEP-2010 23:19:41; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44802
 7; 2210.3; 24-SEP-2010 23:30:46; Bright; 43.5; 140; 88Gam Peg ; 2.83; 26000;occ; 87; 0;44802
 8; 2389.7; 24-SEP-2010 23:33:46; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;44802
 9; 2977.7; 24-SEP-2010 23:43:34; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44802
10; 3070.2; 24-SEP-2010 23:45:06; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44802
11; 4498.9; 25-SEP-2010 00:08:55; Bright; 71.0; 24; 66Alp Gem ; 1.58; 10200;occ; 142; 0;44802
12; 5083.3; 25-SEP-2010 00:18:39; Dark ; 58.5; 8; 10Alp CMi ; 0.40; 6500;occ; 117; 0;44802
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 4; -341.9; 24-SEP-2010 07:42:51; Dark ; 36.0; 1; 9Alp CMA ; -1.44; 11000;occ; 72; 0;44792
 5; -243.9; 24-SEP-2010 07:44:29; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;44792
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 7; 16.1; 24-SEP-2010 07:48:49; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44793
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 9; 836.4; 24-SEP-2010 08:02:29; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;44793
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 3; 2471.0; 24-SEP-2010 08:29:44; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44793
 4; 2981.1; 24-SEP-2010 08:38:14; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44793
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 9; 5695.5; 24-SEP-2010 09:23:28; Dark ; 36.0; 1; 9Alp CMA ; -1.44; 11000;occ; 72; 0;44793
10; 5793.1; 24-SEP-2010 09:25:06; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;44793
11; 5925.5; 24-SEP-2010 09:27:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44793
12; 6052.7; 24-SEP-2010 09:29:26; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;44794
13; 6197.1; 24-SEP-2010 09:31:50; Dark ; 56.0; 108; Alp Col ; 2.65; 15200;occ; 112; 0;44794
14; 6873.2; 24-SEP-2010 09:43:06; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44794
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 4; 2980.6; 24-SEP-2010 10:18:49; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44794
 5; 3074.0; 24-SEP-2010 10:20:23; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44794
 6; 4498.1; 24-SEP-2010 10:44:07; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;44794
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10; 5794.3; 24-SEP-2010 11:05:43; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;44794
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 5; 3073.6; 24-SEP-2010 12:00:58; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44795
 6; 4498.1; 24-SEP-2010 12:24:43; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;44795

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6; 5060.1; 25-SEP-2010 12:02:28; Dark ; 55.0; 153; 3Bet CMi ; 2.89; 13100;occ; 110; 0;44809
7; 5525.1; 25-SEP-2010 12:10:13; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;44809
8; 5722.4; 25-SEP-2010 12:13:30; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;44809
9; 5810.3; 25-SEP-2010 12:14:58; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;44809
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8; 5723.3; 25-SEP-2010 13:54:07; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;44810
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7; 5090.7; 25-SEP-2010 15:24:10; Dark ; 74.0; 8; 10Alp CMi ; 0.40; 6500;occ; 148; 0;44811
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9; 5724.3; 25-SEP-2010 15:34:44; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;44811

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13; 6227.2; 25-SEP-2010 20:44:54; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44815
14; 6890.7; 25-SEP-2010 20:55:58; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44815
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 6; 193.0; 25-SEP-2010 22:25:32; Dark ; 56.5; 108; Alp Col ; 2.65; 15200;occ; 113; 0;44816
 7; 855.5; 25-SEP-2010 22:36:35; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;44816
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 5; 216.1; 27-SEP-2010 01:15:30; Dark ; 55.0; 108; Alp Col ; 2.65; 15200;occ; 110; 0;44832
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5; 2961.6; 28-SEP-2010 14:54:25; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44854
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2; -152.2; 29-SEP-2010 21:53:54; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;44872
3; -55.9; 29-SEP-2010 21:55:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44872
4; 156.8; 29-SEP-2010 21:59:03; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;44873

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5; 276.7; 29-SEP-2010 22:01:03; Dark ; 31.0; 108; Alp Col ; 2.65; 15200;occ; 62; 0;44873
6; 901.1; 29-SEP-2010 22:11:27; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;44873
7; 1554.7; 29-SEP-2010 22:22:21; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;44873
8; 2189.7; 29-SEP-2010 22:32:56; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44873
9; 2440.7; 29-SEP-2010 22:37:07; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;44873
10; 2674.0; 29-SEP-2010 22:41:00; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;44873
11; 2956.2; 29-SEP-2010 22:45:43; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44873
12; 3039.4; 29-SEP-2010 22:47:06; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44873
13; 4596.1; 29-SEP-2010 23:13:02; Bright; 59.0; 17; 78Bet Gem ; 1.16; 4500;occ; 118; 0;44873
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2; -251.8; 29-SEP-2010 23:32:50; Dark ; 51.0; 88; 31Eta CMA ; 2.45; 20000;occ; 102; 0;44873
3; -151.3; 29-SEP-2010 23:34:31; Dark ; 56.0; 23; 21Eps CMA ; 1.50; 26000;occ; 112; 0;44873
4; -55.1; 29-SEP-2010 23:36:07; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44873
5; 157.2; 29-SEP-2010 23:39:39; Dark ; 56.5; 2; Alp Car ;-0.74; 7000;occ; 113; 0;44874
6; 278.2; 29-SEP-2010 23:41:40; Dark ; 28.0; 108; Alp Col ; 2.65; 15200;occ; 56; 0;44874
7; 901.7; 29-SEP-2010 23:52:04; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;44874
8; 1554.9; 30-SEP-2010 00:02:57; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44874
9; 2189.5; 30-SEP-2010 00:13:32; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44874
10; 2440.3; 30-SEP-2010 00:17:43; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44874
11; 2673.4; 30-SEP-2010 00:21:36; Bright; 52.0; 53; 43Bet And ; 2.05; 3300;occ; 104; 0;44874
12; 2955.9; 30-SEP-2010 00:26:18; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44874
13; 3038.9; 30-SEP-2010 00:27:41; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44874
14; 4596.4; 30-SEP-2010 00:53:39; Bright; 57.0; 17; 78Bet Gem ; 1.16; 4500;occ; 114; 0;44874
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2; -150.1; 30-SEP-2010 01:15:08; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;44874
3; -54.4; 30-SEP-2010 01:16:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44874
4; 157.8; 30-SEP-2010 01:20:16; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;44875
5; 279.6; 30-SEP-2010 01:22:18; Dark ; 28.0; 108; Alp Col ; 2.65; 15200;occ; 56; 0;44875
6; 902.4; 30-SEP-2010 01:32:40; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44875
7; 1555.0; 30-SEP-2010 01:43:33; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44875
8; 2189.1; 30-SEP-2010 01:54:07; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44875
9; 2440.0; 30-SEP-2010 01:58:18; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;44875
10; 2672.5; 30-SEP-2010 02:02:11; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44875
11; 2955.8; 30-SEP-2010 02:06:54; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44875
12; 3038.5; 30-SEP-2010 02:08:17; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;44875
13; 4596.8; 30-SEP-2010 02:34:15; Bright; 59.0; 17; 78Bet Gem ; 1.16; 4500;occ; 118; 0;44875
14; 5573.3; 30-SEP-2010 02:50:31; Dark ; 48.0; 132; 15Rho Pup ; 2.80; 6900;occ; 96; 0;44875
15; 5786.3; 30-SEP-2010 02:54:04; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44875
16; 5887.2; 30-SEP-2010 02:55:45; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;44875
17; 5982.2; 30-SEP-2010 02:57:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44875
18; 6194.8; 30-SEP-2010 03:00:53; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;44876
19; 6317.0; 30-SEP-2010 03:02:55; Dark ; 26.0; 108; Alp Col ; 2.65; 15200;occ; 52; 0;44876
20; 6939.2; 30-SEP-2010 03:13:17; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44876
21; 7591.1; 30-SEP-2010 03:24:09; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;44876
22; 8224.7; 30-SEP-2010 03:34:43; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44876
23; 8475.6; 30-SEP-2010 03:38:54; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44876
24; 8707.7; 30-SEP-2010 03:42:46; Bright; 48.0; 53; 43Bet And ; 2.05; 3300;occ; 96; 0;44876
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2; 3038.1; 30-SEP-2010 03:48:52; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44876
3; 4597.1; 30-SEP-2010 04:14:51; Bright; 57.0; 17; 78Bet Gem ; 1.16; 4500;occ; 114; 0;44876
4; 5574.0; 30-SEP-2010 04:31:08; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;44876
5; 5787.4; 30-SEP-2010 04:34:41; Dark ; 50.5; 88; 31Eta CMA ; 2.45; 20000;occ; 101; 0;44876
6; 5983.1; 30-SEP-2010 04:37:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44876
7; 6195.7; 30-SEP-2010 04:41:30; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;44877
8; 6318.9; 30-SEP-2010 04:43:33; Dark ; 26.0; 108; Alp Col ; 2.65; 15200;occ; 52; 0;44877
9; 6939.9; 30-SEP-2010 04:53:54; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44877
10; 7591.3; 30-SEP-2010 05:04:45; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44877
11; 8224.9; 30-SEP-2010 05:15:19; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44877
12; 8475.6; 30-SEP-2010 05:19:30; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44877
13; 8707.0; 30-SEP-2010 05:23:21; Bright; 52.0; 53; 43Bet And ; 2.05; 3300;occ; 104; 0;44877
14; 8991.1; 30-SEP-2010 05:28:05; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44877
15; 9074.1; 30-SEP-2010 05:29:28; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;44877
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2; -461.2; 30-SEP-2010 06:11:45; Dark ; 47.5; 132; 15Rho Pup ; 2.80; 6900;occ; 95; 0;44877

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4; -52.2; 30-SEP-2010 06:18:34; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44877
5; 76.0; 30-SEP-2010 06:20:42; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;44878
6; 160.3; 30-SEP-2010 06:22:06; Dark ; 57.5; 2; Alp Car ;-0.74; 7000;occ; 115; 0;44878
7; 904.6; 30-SEP-2010 06:34:30; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44878
8; 1555.6; 30-SEP-2010 06:45:21; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;44878
9; 2188.5; 30-SEP-2010 06:55:54; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44878
10; 2439.2; 30-SEP-2010 07:00:05; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;44878
11; 2670.3; 30-SEP-2010 07:03:56; Bright; 45.5; 53; 43Bet And ; 2.05; 3300;occ; 91; 0;44878
12; 2954.7; 30-SEP-2010 07:08:41; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44878
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2; 2186.8; 30-SEP-2010 20:20:40; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44886
3; 2436.6; 30-SEP-2010 20:24:50; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44886
4; 2664.5; 30-SEP-2010 20:28:38; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44886
5; 2952.7; 30-SEP-2010 20:33:26; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44886
6; 3033.8; 30-SEP-2010 20:34:47; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;44886
7; 4511.6; 30-SEP-2010 20:59:25; Bright; 46.0; 24; 66Alp Gem ; 1.58; 10200;occ; 92; 0;44886
8; 4599.6; 30-SEP-2010 21:00:53; Bright; 63.5; 17; 78Bet Gem ; 1.16; 4500;occ; 127; 0;44886
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2; -454.1; 30-SEP-2010 21:17:15; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44886
3; -207.1; 30-SEP-2010 21:21:22; Dark ; 60.0; 37; 25Del CMA ; 1.83; 5900;occ; 120; 0;44886
4; -45.6; 30-SEP-2010 21:24:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44886
5; 166.7; 30-SEP-2010 21:27:36; Dark ; 54.5; 2; Alp Car ;-0.74; 7000;occ; 109; 0;44887
6; 297.6; 30-SEP-2010 21:29:47; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44887
7; 911.4; 30-SEP-2010 21:40:01; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44887
8; 1556.4; 30-SEP-2010 21:50:46; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;44887
9; 2186.4; 30-SEP-2010 22:01:16; Bright; 39.5; 140; 88Gam Peg ; 2.83; 26000;occ; 79; 0;44887
10; 2436.3; 30-SEP-2010 22:05:26; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;44887
11; 2663.7; 30-SEP-2010 22:09:13; Bright; 45.5; 53; 43Bet And ; 2.05; 3300;occ; 91; 0;44887
12; 2952.6; 30-SEP-2010 22:14:02; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44887
13; 3033.6; 30-SEP-2010 22:15:23; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44887
14; 4511.8; 30-SEP-2010 22:40:01; Bright; 46.0; 24; 66Alp Gem ; 1.58; 10200;occ; 92; 0;44887
15; 4599.8; 30-SEP-2010 22:41:29; Bright; 59.0; 17; 78Bet Gem ; 1.16; 4500;occ; 118; 0;44887
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2; -205.8; 30-SEP-2010 23:01:59; Dark ; 63.5; 37; 25Del CMA ; 1.83; 5900;occ; 127; 0;44887
3; -44.9; 30-SEP-2010 23:04:40; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44887
4; 167.6; 30-SEP-2010 23:08:13; Dark ; 55.5; 2; Alp Car ;-0.74; 7000;occ; 111; 0;44888
5; 299.1; 30-SEP-2010 23:10:24; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44888
6; 912.0; 30-SEP-2010 23:20:37; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44888
7; 1556.5; 30-SEP-2010 23:31:22; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;44888
8; 2185.9; 30-SEP-2010 23:41:51; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44888
9; 2436.0; 30-SEP-2010 23:46:01; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44888
10; 2663.1; 30-SEP-2010 23:49:48; Bright; 50.0; 53; 43Bet And ; 2.05; 3300;occ; 100; 0;44888
11; 2952.1; 30-SEP-2010 23:54:37; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;44888
12; 3033.2; 30-SEP-2010 23:55:58; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44888
13; 4511.8; 01-OCT-2010 00:20:37; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44888
14; 4600.1; 01-OCT-2010 00:22:05; Bright; 77.0; 17; 78Bet Gem ; 1.16; 4500;occ; 154; 0;44888
15; 5159.9; 01-OCT-2010 00:31:25; Dark ; 37.5; 8; 10Alp CMI ; 0.40; 6500;occ; 75; 0;44888
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2; -460.4; 30-SEP-2010 07:52:21; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44878
3; -229.7; 30-SEP-2010 07:56:12; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;44878
4; -131.7; 30-SEP-2010 07:57:50; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;44878
5; -51.5; 30-SEP-2010 07:59:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44878
6; 55.1; 30-SEP-2010 08:00:57; Dark ; 54.5; 177; 1Zet CMA ; 3.02; 26000;occ; 109; 0;44879
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2; 287.2; 30-SEP-2010 09:45:25; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44880
3; 906.2; 30-SEP-2010 09:55:44; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44880
4; 1556.0; 30-SEP-2010 10:06:34; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44880
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2; 2438.3; 30-SEP-2010 12:01:52; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44881

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5; 3036.1; 30-SEP-2010 12:11:50; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44881
6; 4510.9; 30-SEP-2010 12:36:24; Bright; 57.5; 24; 66Alp Gem ; 1.58; 10200;occ; 115; 0;44881
7; 4598.3; 30-SEP-2010 12:37:52; Bright; 59.0; 17; 78Bet Gem ; 1.16; 4500;occ; 118; 0;44881
8; 5152.8; 30-SEP-2010 12:47:06; Dark ; 68.5; 8; 10Alp CMi ; 0.40; 6500;occ; 137; 0;44881
9; 5577.9; 30-SEP-2010 12:54:12; Dark ; 46.5; 132; 15Rho Pup ; 2.80; 6900;occ; 93; 0;44881
10; 5808.4; 30-SEP-2010 12:58:02; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;44881
11; 5906.8; 30-SEP-2010 12:59:40; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;44881
12; 5986.6; 30-SEP-2010 13:01:00; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44881
13; 6198.9; 30-SEP-2010 13:04:33; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;44882
14; 6325.9; 30-SEP-2010 13:06:40; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44882
15; 6943.5; 30-SEP-2010 13:16:57; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;44882
16; 7591.8; 30-SEP-2010 13:27:45; Dark ; 24.5; 52; 16Bet Cet ; 2.04; 4500;occ; 49; 0;44882
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2; 2187.4; 30-SEP-2010 13:38:17; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44882
3; 2437.9; 30-SEP-2010 13:42:27; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44882
4; 2667.4; 30-SEP-2010 13:46:17; Bright; 50.0; 53; 43Bet And ; 2.05; 3300;occ; 100; 0;44882
5; 2953.9; 30-SEP-2010 13:51:03; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44882
6; 3035.6; 30-SEP-2010 13:52:25; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44882
7; 4511.0; 30-SEP-2010 14:17:00; Bright; 55.5; 24; 66Alp Gem ; 1.58; 10200;occ; 111; 0;44882
8; 4598.6; 30-SEP-2010 14:18:28; Bright; 69.5; 17; 78Bet Gem ; 1.16; 4500;occ; 139; 0;44882
9; 5153.8; 30-SEP-2010 14:27:43; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;44882
10; 5578.9; 30-SEP-2010 14:34:48; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44882
11; 5823.8; 30-SEP-2010 14:38:53; Dark ; 67.0; 37; 25Del CMA ; 1.83; 5900;occ; 134; 0;44882
12; 5987.4; 30-SEP-2010 14:41:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44882
13; 6199.8; 30-SEP-2010 14:45:09; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;44883
14; 6327.7; 30-SEP-2010 14:47:17; Dark ; 59.5; 108; Alp Col ; 2.65; 15200;occ; 119; 0;44883
15; 6944.6; 30-SEP-2010 14:57:34; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;44883
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2; 2187.5; 30-SEP-2010 15:18:53; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44883
3; 2437.8; 30-SEP-2010 15:23:03; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44883
4; 2666.8; 30-SEP-2010 15:26:52; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44883
5; 2953.6; 30-SEP-2010 15:31:39; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44883
6; 3035.4; 30-SEP-2010 15:33:01; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44883
7; 4511.2; 30-SEP-2010 15:57:37; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;44883
8; 4598.8; 30-SEP-2010 15:59:04; Bright; 65.5; 17; 78Bet Gem ; 1.16; 4500;occ; 131; 0;44883
9; 5154.9; 30-SEP-2010 16:08:20; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;44883
10; 5579.8; 30-SEP-2010 16:15:25; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44883
11; 5825.2; 30-SEP-2010 16:19:31; Dark ; 66.0; 37; 25Del CMA ; 1.83; 5900;occ; 132; 0;44883
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13; 6200.8; 30-SEP-2010 16:25:46; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;44884
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3; 2437.4; 30-SEP-2010 17:03:39; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;44884
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5; 2953.3; 30-SEP-2010 17:12:15; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44884
6; 3034.9; 30-SEP-2010 17:13:36; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44884
7; 4511.5; 30-SEP-2010 17:38:13; Bright; 53.0; 24; 66Alp Gem ; 1.58; 10200;occ; 106; 0;44884
8; 4599.2; 30-SEP-2010 17:39:41; Bright; 57.5; 17; 78Bet Gem ; 1.16; 4500;occ; 115; 0;44884
9; 5156.1; 30-SEP-2010 17:48:57; Dark ; 54.0; 8; 10Alp CMi ; 0.40; 6500;occ; 108; 0;44884
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3; 2437.0; 30-SEP-2010 18:44:14; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44885
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