

# GOMOS Daily Report 25-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	28SEP2010 04:46:00
Data source version	GOMOS/5.01
Start time of products	25SEP2010 00:08:55
Stop time of products	25SEP2010 23:59:17
Store outputs in DB	Yes
Nb of level 1b prods	71
Nb of prods with errors	0

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

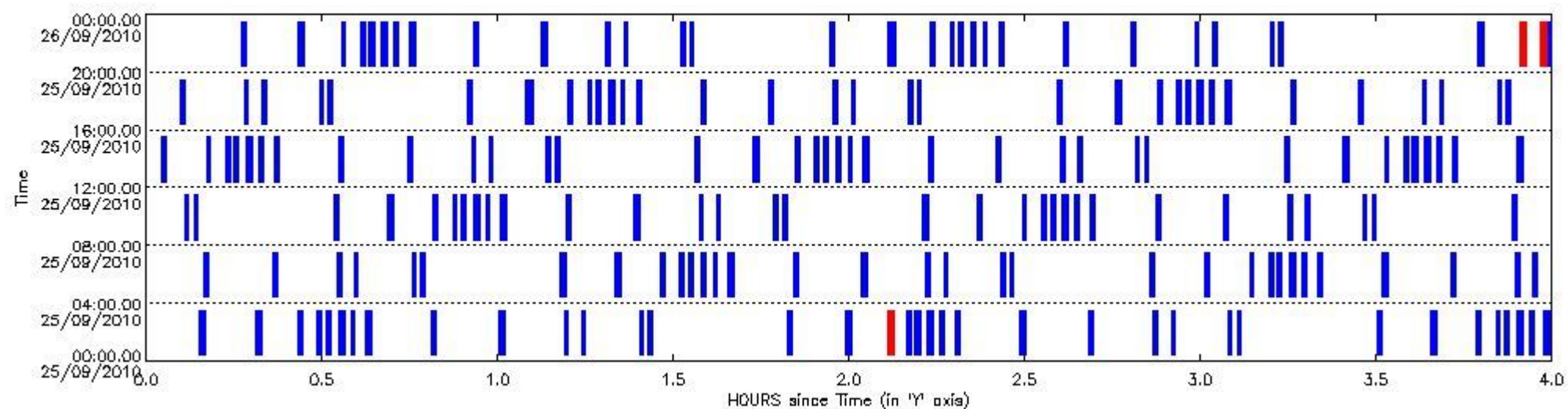
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
25-SEP-2010 02:06:43	15RhoPup	132	44803
25-SEP-2010 23:54:39	15RhoPup	132	44816
25-SEP-2010 23:57:58	31EtaCMa	88	44816

### 2.4 Summary of processed GOM\_TRA\_1P products

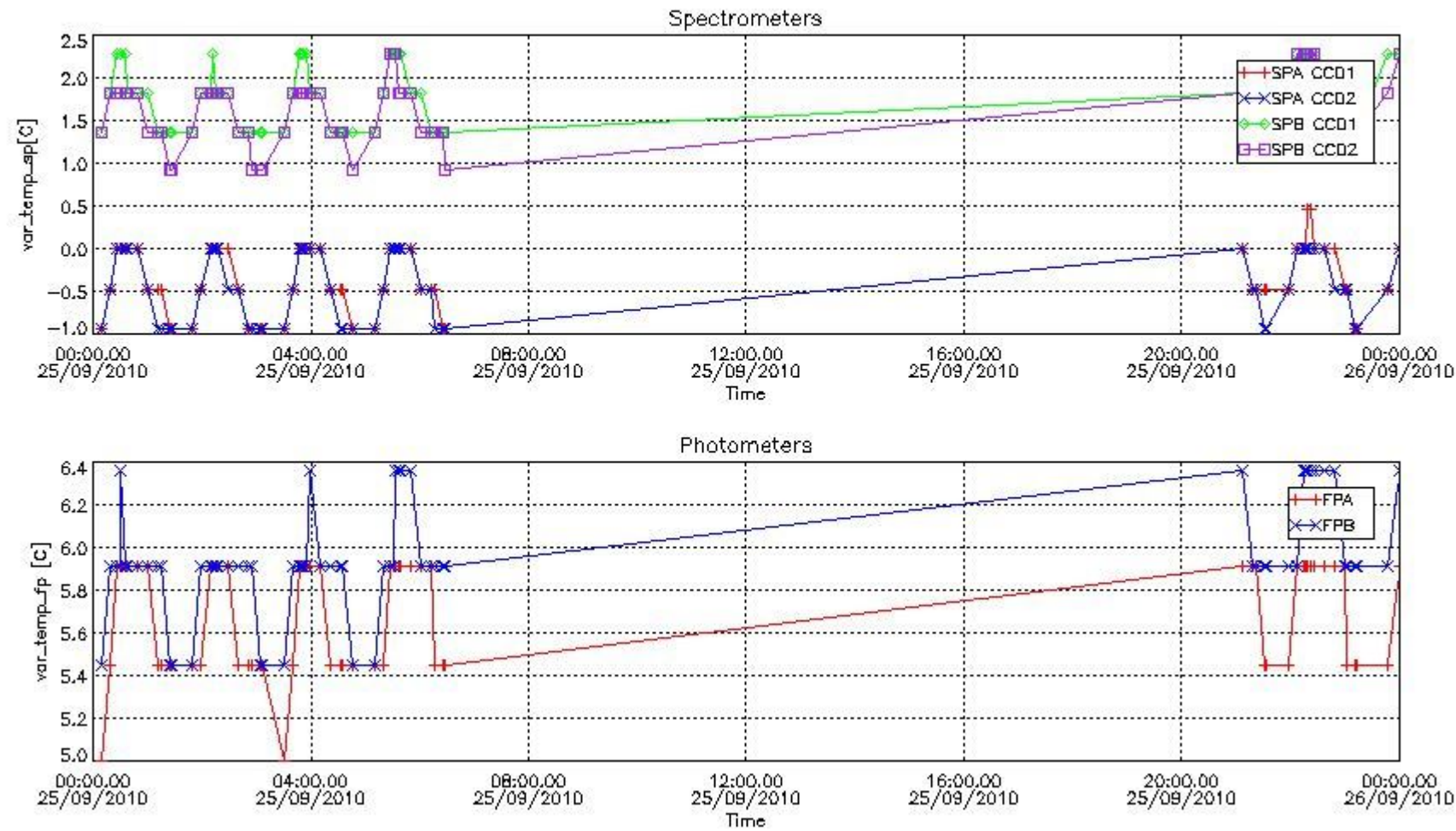
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100925_000855_000000712093_00159_44802_6136.N1	25-SEP-2010 00:08:55	Bright	71.000	24	66Alp Gem	1.5800	10200.	142	44802	No
2	GOM_TRA_1PNPDE20100925_001839_000000592093_00159_44802_6137.N1	25-SEP-2010 00:18:39	Dark	58.500	8	10Alp CMi	0.40000	6500.0	117	44802	No
3	GOM_TRA_1PNPDE20100925_002556_000000452093_00159_44802_6151.N1	25-SEP-2010 00:25:56	Dark	45.000	132	15Rho Pup	2.8030	6900.0	90	44802	No
4	GOM_TRA_1PNPDE20100925_002912_000000452093_00159_44802_6152.N1	25-SEP-2010 00:29:12	Dark	44.500	88	31Eta CMa	2.4480	20000.	89	44802	No
5	GOM_TRA_1PNPDE20100925_003039_000000492093_00159_44802_6153.N1	25-SEP-2010 00:30:39	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	44802	No
6	GOM_TRA_1PNPDE20100925_003454_000000422093_00160_44803_6154.N1	25-SEP-2010 00:34:54	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	44803	No
7	GOM_TRA_1PNPDE20100925_003726_000000562093_00160_44803_6155.N1	25-SEP-2010 00:37:26	Dark	56.000	108	Alp Col	2.6520	15200.	112	44803	No
8	GOM_TRA_1PNPDE20100925_004836_000000542093_00160_44803_6156.N1	25-SEP-2010 00:48:36	Straylight	53.500	157	The1Eri	2.9060	9300.0	107	44803	No

9	GOM_TRA_1PNPDE20100925_010017_000000532093_00160_44803_6157.N1	25-SEP-2010 01:00:17	Twilight	53.000	52	16Bet Cet	2.0370	4500.0	106	44803	No
10	GOM_TRA_1PNPDE20100925_011122_000000432093_00160_44803_6158.N1	25-SEP-2010 01:11:22	Bright	43.000	140	88Gam Peg	2.8340	26000.	86	44803	No
11	GOM_TRA_1PNPDE20100925_011422_000000402093_00160_44803_6159.N1	25-SEP-2010 01:14:22	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	44803	No
12	GOM_TRA_1PNPDE20100925_012409_000000392093_00160_44803_6160.N1	25-SEP-2010 01:24:09	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	44803	No
13	GOM_TRA_1PNPDE20100925_012542_000000442093_00160_44803_6161.N1	25-SEP-2010 01:25:42	Bright	43.500	76	27Gam Cas	2.3000	30000.	87	44803	No
14	GOM_TRA_1PNPDE20100925_014931_000000522093_00160_44803_6162.N1	25-SEP-2010 01:49:31	Bright	52.000	24	66Alp Gem	1.5800	10200.	104	44803	No
15	GOM_TRA_1PNPDE20100925_015916_000000692093_00160_44803_6163.N1	25-SEP-2010 01:59:16	Dark	69.000	8	10Alp CMI	0.40000	6500.0	138	44803	No
16	GOM_TRA_1PNPDE20100925_020949_000000482093_00160_44803_6175.N1	25-SEP-2010 02:09:49	Dark	47.500	88	31Eta CMa	2.4480	20000.	95	44803	No
17	GOM_TRA_1PNPDE20100925_021116_000000542093_00160_44803_6176.N1	25-SEP-2010 02:11:16	Dark	54.000	23	21Eps CMa	1.5020	26000.	108	44803	No
18	GOM_TRA_1PNPDE20100925_021531_000000412093_00161_44804_6177.N1	25-SEP-2010 02:15:31	Dark	41.000	161	Tau Pup	2.9310	4500.0	82	44804	No
19	GOM_TRA_1PNPDE20100925_021803_000000542093_00161_44804_6178.N1	25-SEP-2010 02:18:03	Dark	53.500	108	Alp Col	2.6520	15200.	107	44804	No
20	GOM_TRA_1PNPDE20100925_022913_000000512093_00161_44804_6179.N1	25-SEP-2010 02:29:13	Straylight	50.500	157	The1Eri	2.9060	9300.0	101	44804	No
21	GOM_TRA_1PNPDE20100925_024053_000000512093_00161_44804_6180.N1	25-SEP-2010 02:40:53	Twilight	51.000	52	16Bet Cet	2.0370	4500.0	102	44804	No
22	GOM_TRA_1PNPDE20100925_025158_000000442093_00161_44804_6181.N1	25-SEP-2010 02:51:58	Bright	43.500	140	88Gam Peg	2.8340	26000.	87	44804	No
23	GOM_TRA_1PNPDE20100925_025457_000000382093_00161_44804_6182.N1	25-SEP-2010 02:54:57	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	44804	No
24	GOM_TRA_1PNPDE20100925_030445_000000372093_00161_44804_6183.N1	25-SEP-2010 03:04:45	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	44804	No
25	GOM_TRA_1PNPDE20100925_030617_000000402093_00161_44804_6184.N1	25-SEP-2010 03:06:17	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44804	No
26	GOM_TRA_1PNPDE20100925_033007_000000512093_00161_44804_6198.N1	25-SEP-2010 03:30:07	Bright	50.500	24	66Alp Gem	1.5800	10200.	101	44804	No
27	GOM_TRA_1PNPDE20100925_033924_000000562093_00161_44804_6199.N1	25-SEP-2010 03:39:24	Dark	56.000	153	3Bet CMI	2.8940	13100.	112	44804	No
28	GOM_TRA_1PNPDE20100925_034710_000000452093_00161_44804_6200.N1	25-SEP-2010 03:47:10	Dark	45.000	132	15Rho Pup	2.8030	6900.0	90	44804	No
29	GOM_TRA_1PNPDE20100925_035026_000000452093_00161_44804_6201.N1	25-SEP-2010 03:50:26	Dark	44.500	88	31Eta CMa	2.4480	20000.	89	44804	No
30	GOM_TRA_1PNPDE20100925_035153_000000502093_00161_44804_6202.N1	25-SEP-2010 03:51:53	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	44804	No
31	GOM_TRA_1PNPDE20100925_035608_000000442093_00162_44805_6203.N1	25-SEP-2010 03:56:08	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	44805	No
32	GOM_TRA_1PNPDE20100925_035841_000000562093_00162_44805_6204.N1	25-SEP-2010 03:58:41	Dark	56.000	108	Alp Col	2.6520	15200.	112	44805	No
33	GOM_TRA_1PNPDE20100925_040950_000000542093_00162_44805_6205.N1	25-SEP-2010 04:09:50	Straylight	54.000	157	The1Eri	2.9060	9300.0	108	44805	No
34	GOM_TRA_1PNPDE20100925_042129_000000532093_00162_44805_6206.N1	25-SEP-2010 04:21:29	Twilight	52.500	52	16Bet Cet	2.0370	4500.0	105	44805	No
35	GOM_TRA_1PNPDE20100925_043233_000000432093_00162_44805_6207.N1	25-SEP-2010 04:32:33	Bright	43.000	140	88Gam Peg	2.8340	26000.	86	44805	No
36	GOM_TRA_1PNPDE20100925_043534_000000372093_00162_44805_6208.N1	25-SEP-2010 04:35:34	Bright	36.500	93	53Bet Peg	2.5200	3100.0	73	44805	No
37	GOM_TRA_1PNPDE20100925_044521_000000392093_00162_44805_6209.N1	25-SEP-2010 04:45:21	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44805	No
38	GOM_TRA_1PNPDE20100925_044653_000000412093_00162_44805_6210.N1	25-SEP-2010 04:46:53	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	44805	No
39	GOM_TRA_1PNPDE20100925_051043_000000542093_00162_44805_6226.N1	25-SEP-2010 05:10:43	Bright	53.500	24	66Alp Gem	1.5800	10200.	107	44805	No
40	GOM_TRA_1PNPDE20100925_052001_000000562093_00162_44805_6227.N1	25-SEP-2010 05:20:01	Dark	56.000	153	3Bet CMI	2.8940	13100.	112	44805	No
41	GOM_TRA_1PNPDE20100925_052746_000000442093_00162_44805_6228.N1	25-SEP-2010 05:27:46	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	44805	No
42	GOM_TRA_1PNPDE20100925_053103_000000472093_00162_44805_6229.N1	25-SEP-2010 05:31:03	Dark	47.000	88	31Eta CMa	2.4480	20000.	94	44805	No
43	GOM_TRA_1PNPDE20100925_053230_000000492093_00162_44805_6230.N1	25-SEP-2010 05:32:30	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	44805	No
44	GOM_TRA_1PNPDE20100925_053645_000000442093_00163_44806_6231.N1	25-SEP-2010 05:36:45	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	44806	No
45	GOM_TRA_1PNPDE20100925_053918_000000552093_00163_44806_6232.N1	25-SEP-2010 05:39:18	Dark	55.000	108	Alp Col	2.6520	15200.	110	44806	No
46	GOM_TRA_1PNPDE20100925_055027_000000512093_00163_44806_6233.N1	25-SEP-2010 05:50:27	Straylight	51.000	157	The1Eri	2.9060	9300.0	102	44806	No
47	GOM_TRA_1PNPDE20100925_060205_000000542093_00163_44806_6234.N1	25-SEP-2010 06:02:05	Twilight	54.000	52	16Bet Cet	2.0370	4500.0	108	44806	No
48	GOM_TRA_1PNPDE20100925_061309_000000442093_00163_44806_6235.N1	25-SEP-2010 06:13:09	Bright	43.500	140	88Gam Peg	2.8340	26000.	87	44806	No
49	GOM_TRA_1PNPDE20100925_061609_000000372093_00163_44806_6236.N1	25-SEP-2010 06:16:09	Bright	36.500	93	53Bet Peg	2.5200	3100.0	73	44806	No
50	GOM_TRA_1PNPDE20100925_062556_000000412093_00163_44806_6237.N1	25-SEP-2010 06:25:56	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	44806	No
51	GOM_TRA_1PNPDE20100925_062728_000000412093_00163_44806_6238.N1	25-SEP-2010 06:27:28	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	44806	No
52	GOM_TRA_1PNPDE20100925_210730_000000542093_00172_44815_6362.N1	25-SEP-2010 21:07:30	Twilight	54.000	52	16Bet Cet	2.0370	4500.0	108	44815	No
53	GOM_TRA_1PNPDE20100925_211829_000000422093_00172_44815_6363.N1	25-SEP-2010 21:18:29	Bright	41.500	140	88Gam Peg	2.8340	26000.	83	44815	No
54	GOM_TRA_1PNPDE20100925_212132_000000382093_00172_44815_6364.N1	25-SEP-2010 21:21:32	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	44815	No
55	GOM_TRA_1PNPDE20100925_213117_000000412093_00172_44815_6365.N1	25-SEP-2010 21:31:17	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	44815	No
56	GOM_TRA_1PNPDE20100925_213247_000000422093_00172_44815_6366.N1	25-SEP-2010 21:32:47	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	44815	No
57	GOM_TRA_1PNPDE20100925_215644_000000522093_00172_44815_6367.N1	25-SEP-2010 21:56:44	Bright	51.500	24	66Alp Gem	1.5800	10200.	103	44815	No
58	GOM_TRA_1PNPDE20100925_220637_000000722093_00172_44815_6368.N1	25-SEP-2010 22:06:37	Dark	72.000	8	10Alp CMI	0.40000	6500.0	144	44815	No
59	GOM_TRA_1PNPDE20100925_221352_000000452093_00172_44815_6387.N1	25-SEP-2010 22:13:52	Dark	44.500	132	15Rho Pup	2.8030	6900.0	89	44815	No
60	GOM_TRA_1PNPDE20100925_221711_000000472093_00172_44815_6388.N1	25-SEP-2010 22:17:11	Dark	46.500	88	31Eta CMa	2.4480	20000.	93	44815	No
61	GOM_TRA_1PNPDE20100925_221840_000000502093_00172_44815_6389.N1	25-SEP-2010 22:18:40	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	44815	No
62	GOM_TRA_1PNPDE20100925_222251_000000442093_00173_44816_6390.N1	25-SEP-2010 22:22:51	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	44816	No
63	GOM_TRA_1PNPDE20100925_222532_000000572093_00173_44816_6391.N1	25-SEP-2010 22:25:32	Dark	56.500	108	Alp Col	2.6520	15200.	113	44816	No
64	GOM_TRA_1PNPDE20100925_223635_000000502093_00173_44816_6392.N1	25-SEP-2010 22:36:35	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	44816	No
65	GOM_TRA_1PNPDE20100925_224806_000000522093_00173_44816_6393.N1	25-SEP-2010 22:48:06	Twilight	52.000	52	16Bet Cet	2.0370	4500.0	104	44816	No
66	GOM_TRA_1PNPDE20100925_225905_000000412093_00173_44816_6394.N1	25-SEP-2010 22:59:05	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	44816	No
67	GOM_TRA_1PNPDE20100925_230208_000000372093_00173_44816_6395.N1	25-SEP-2010 23:02:08	Bright	37.000	93	53Bet Peg	2.5200	3100.0	74	44816	No



68	GOM_TRA_1PNPDE20100925_231152_000000392093_00173_44816_6396.N1	25-SEP-2010 23:11:52	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44816	No
69	GOM_TRA_1PNPDE20100925_231323_000000432093_00173_44816_6397.N1	25-SEP-2010 23:13:23	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	44816	No
70	GOM_TRA_1PNPDE20100925_234713_000000642093_00173_44816_6398.N1	25-SEP-2010 23:47:13	Dark	64.000	8	10Alp CMI	0.40000	6500.0	128	44816	No
71	GOM_TRA_1PNPDE20100925_235917_000000542093_00173_44816_6414.N1	25-SEP-2010 23:59:17	Dark	53.500	23	21Eps CMa	1.5020	26000.	107	44816	No

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



### 4. Overview of dark signal processing per product

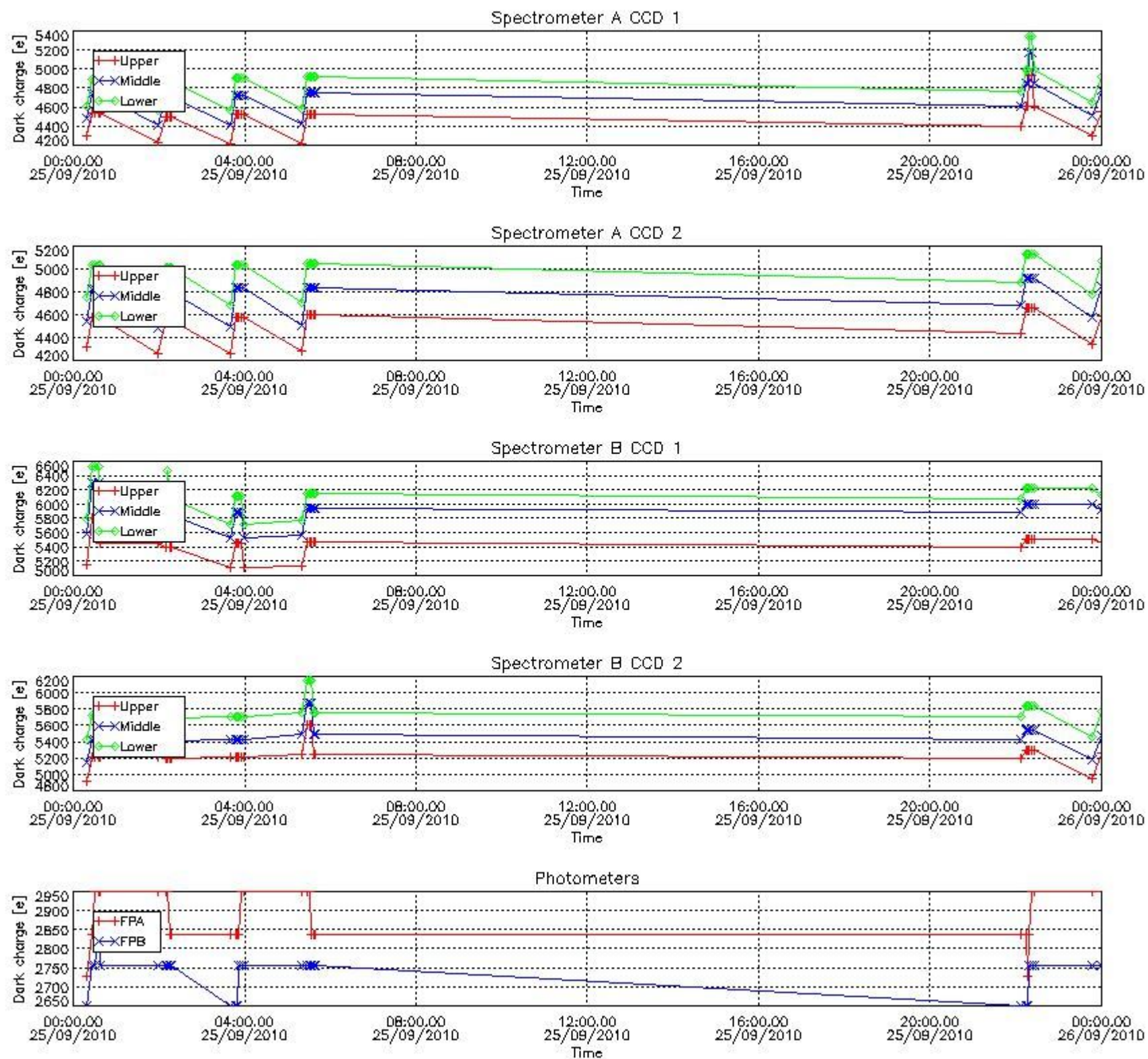
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100925_210730_000000542093_00172_44815_6362.N1	DC map used
GOM_TRA_1PNPDE20100925_211829_000000422093_00172_44815_6363.N1	DC map used
GOM_TRA_1PNPDE20100925_212132_000000382093_00172_44815_6364.N1	DC map used
GOM_TRA_1PNPDE20100925_213117_000000412093_00172_44815_6365.N1	DC map used
GOM_TRA_1PNPDE20100925_213247_000000422093_00172_44815_6366.N1	DC map used
GOM_TRA_1PNPDE20100925_215644_000000522093_00172_44815_6367.N1	DC map used

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



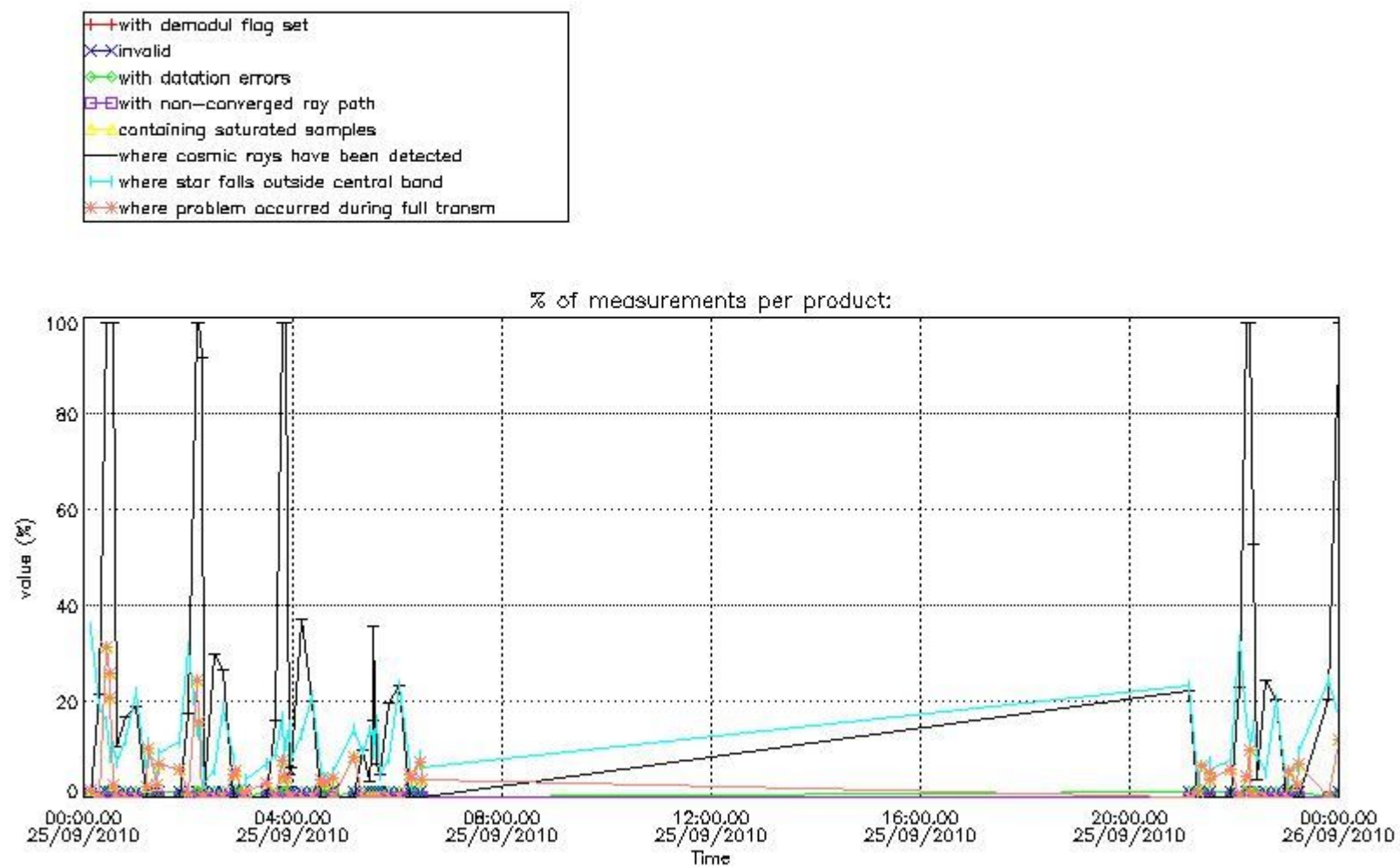
#### 5. Demodulation flag and quality information monitoring

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:

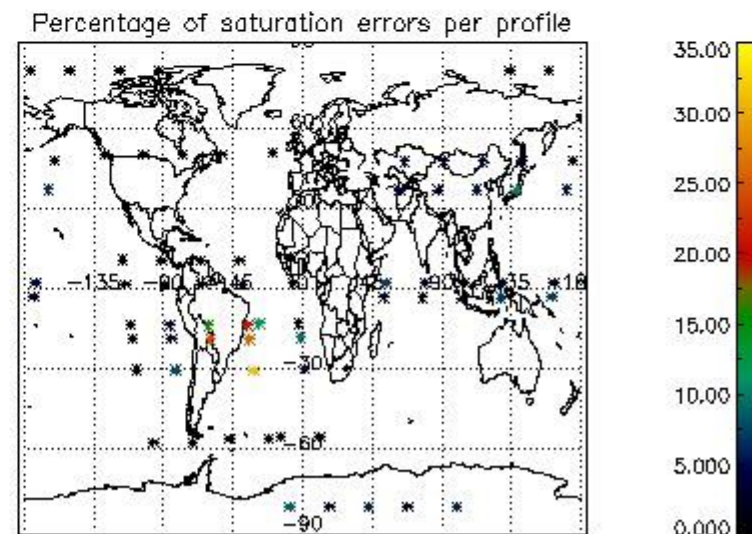
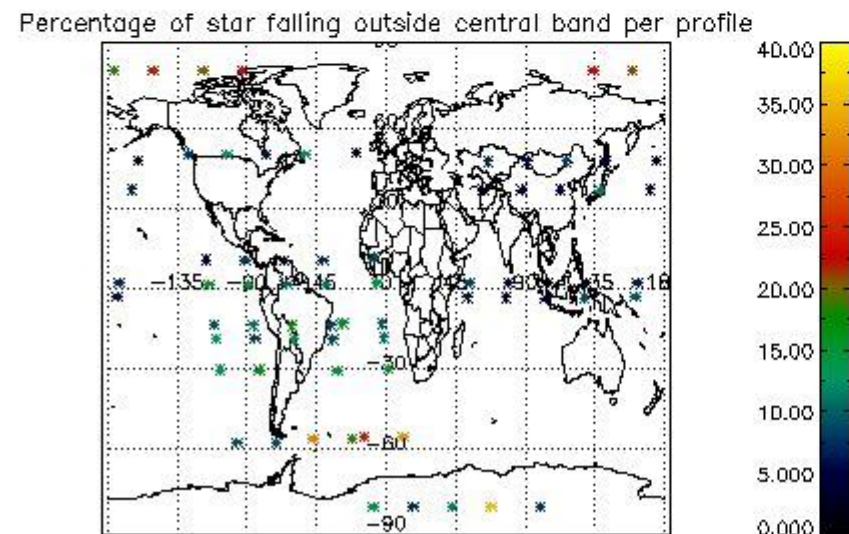
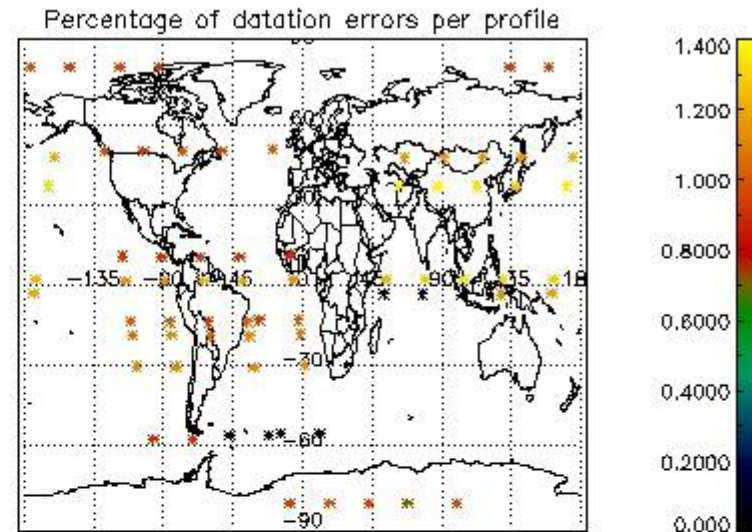
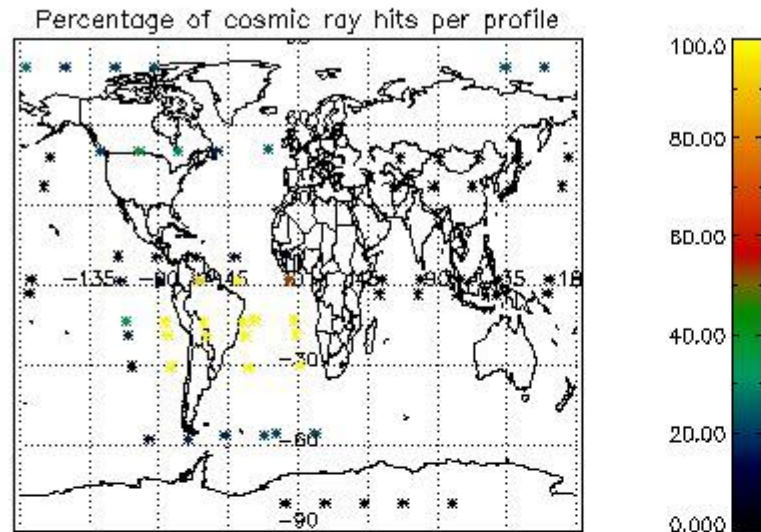
At least one measurement with demodulation flag set:	52.1127 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





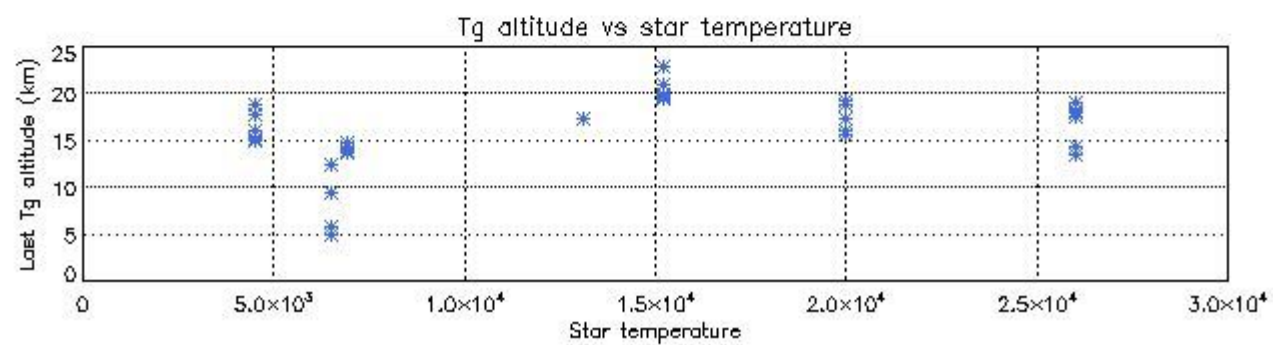
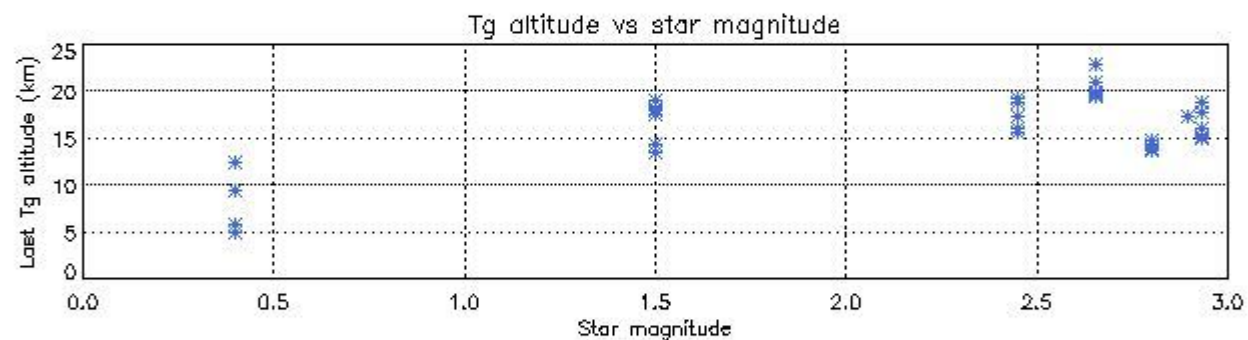
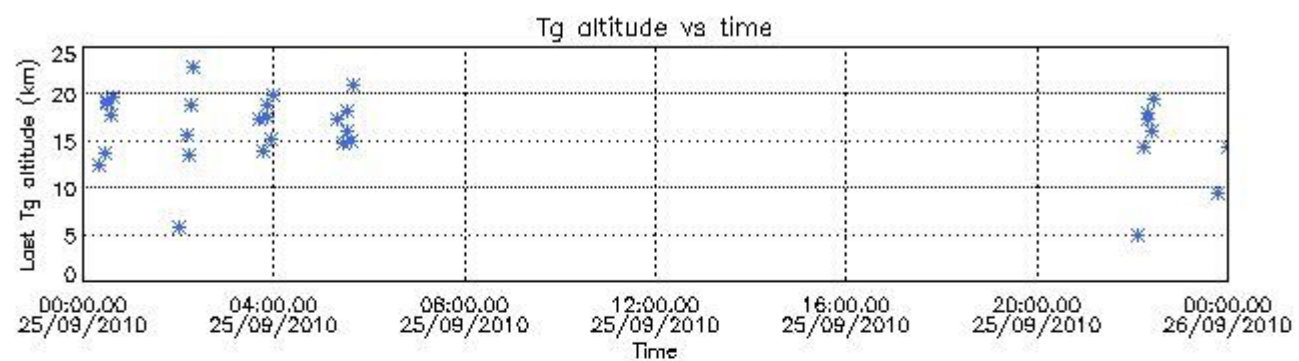
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.988	20.141	NaN
St. deviation:	3.9759	3.9419	NaN
Maximum:	22.775	26.513	NaN
Minimum:	4.9276	4.6445	NaN
Number of data:	31.000	29.000	NaN

### 6.2 Plot for DARK limb products

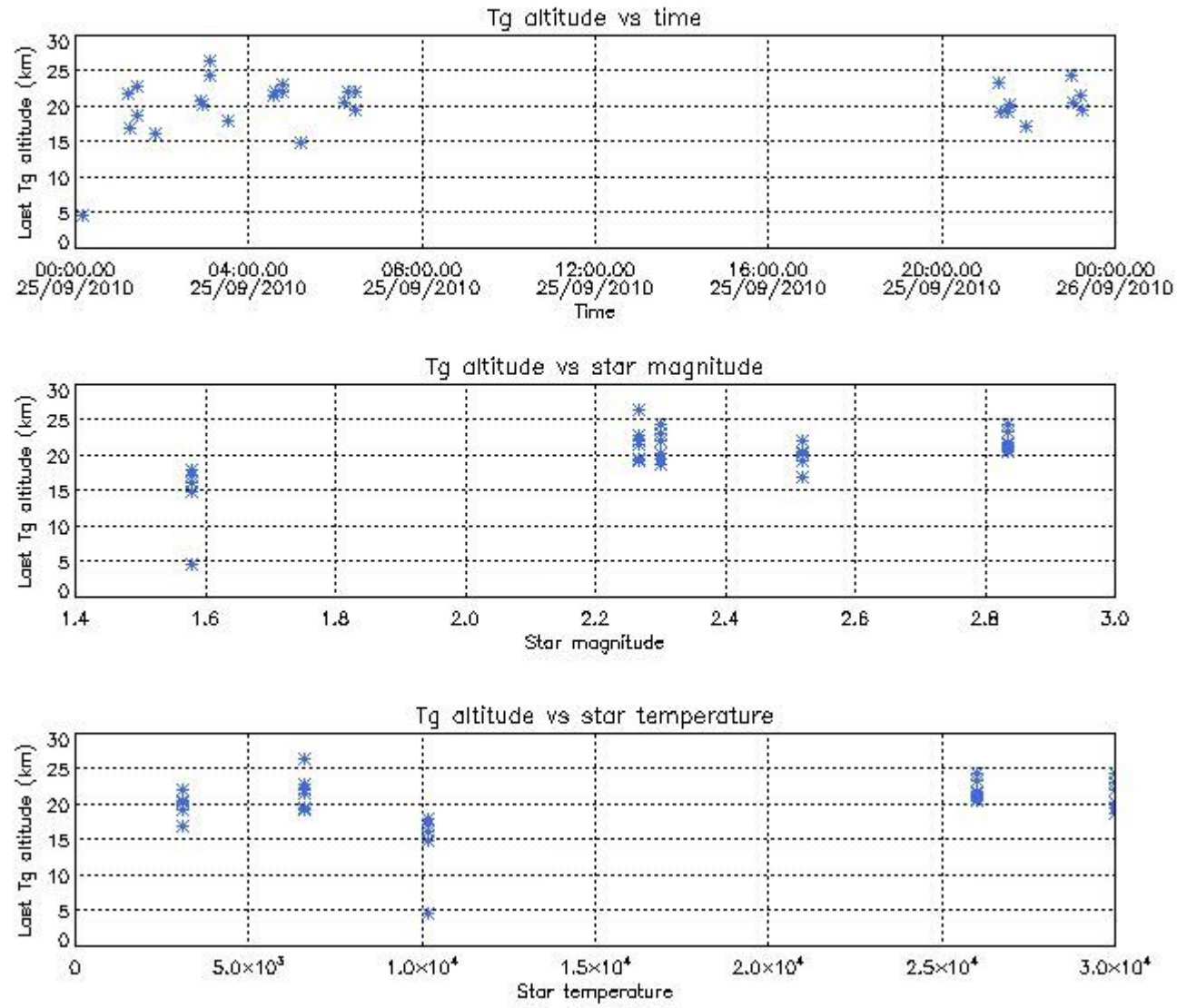
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

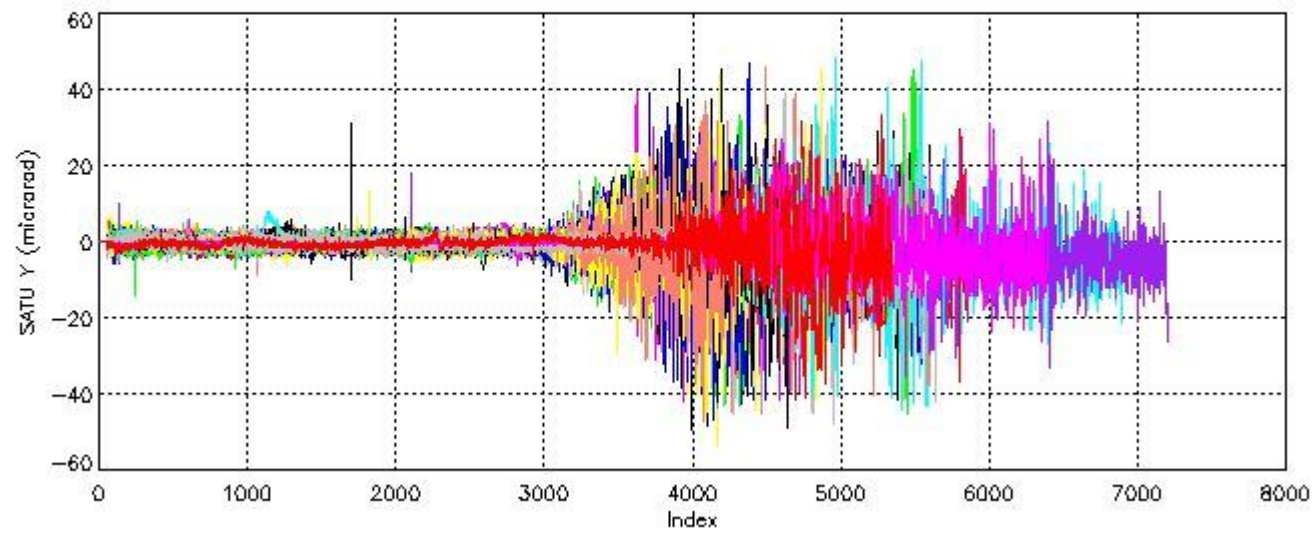
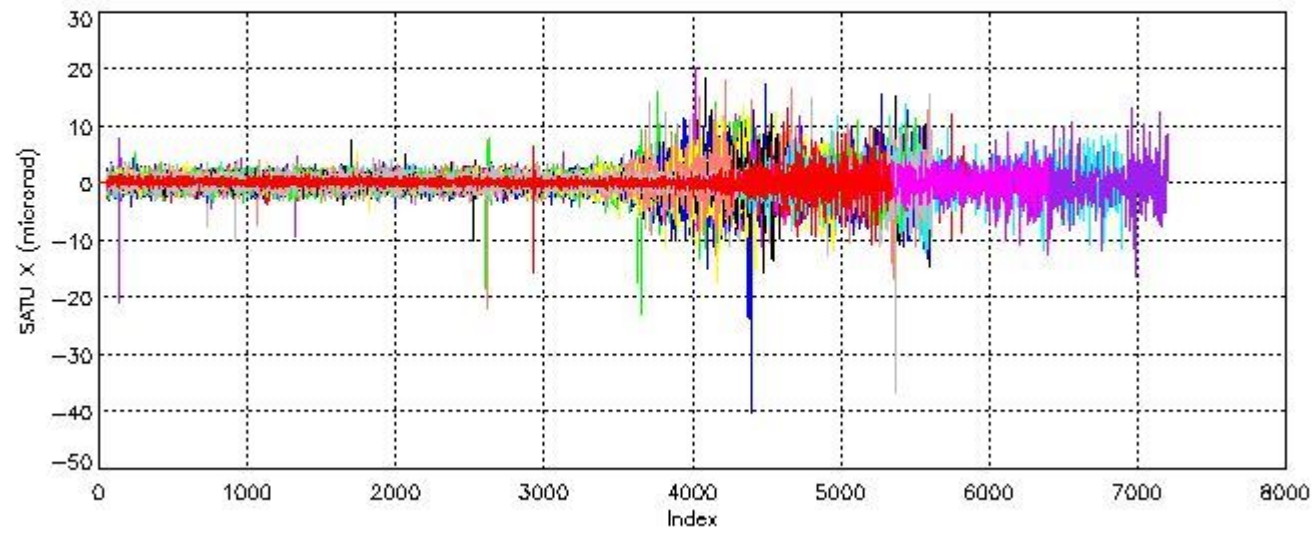


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.17685	-0.21714	0.20142	-0.12683
St. deviation:	0.68660	1.0230	0.75868	1.2131
Maximum:	7.9000	9.9000	5.5000	6.8000
Minimum:	-21.000	-14.300	-5.4000	-8.0000

Number of data:	34350.	34350.	28950.	28950.
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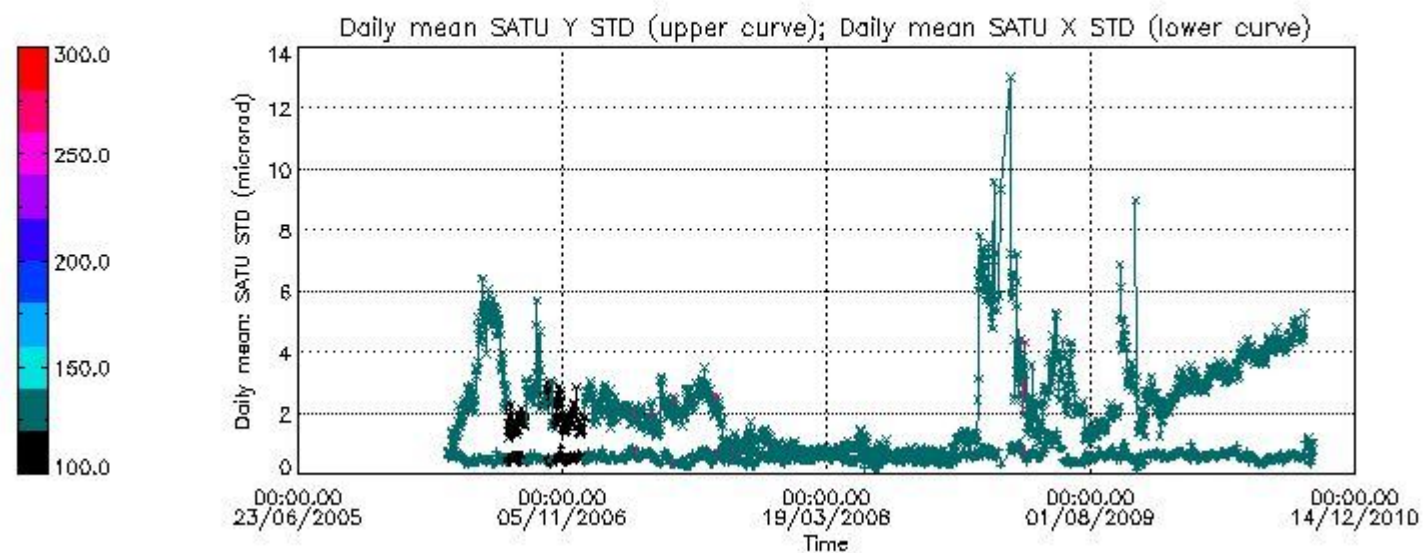
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

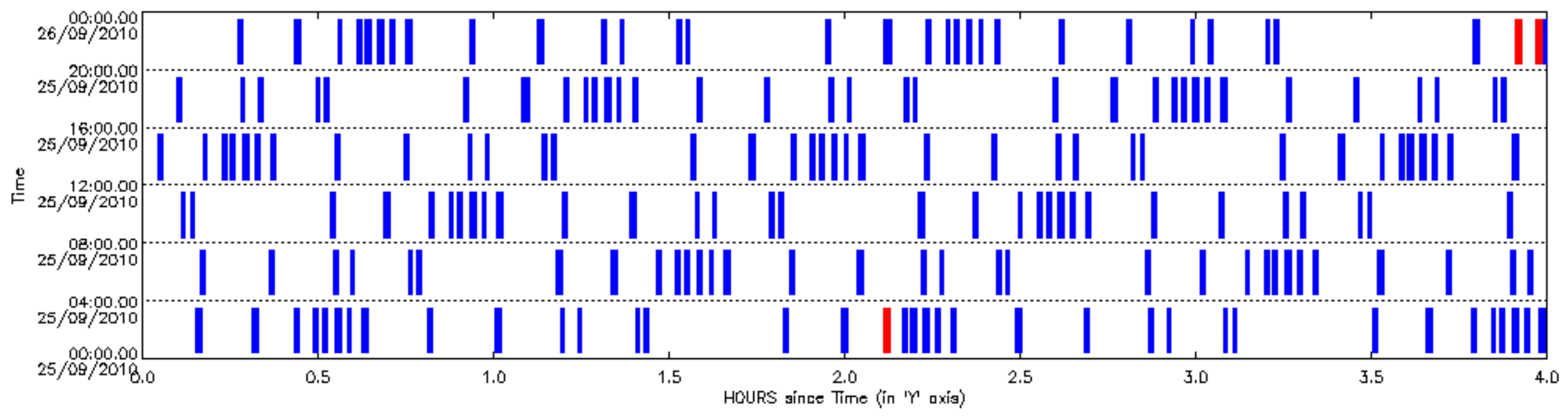


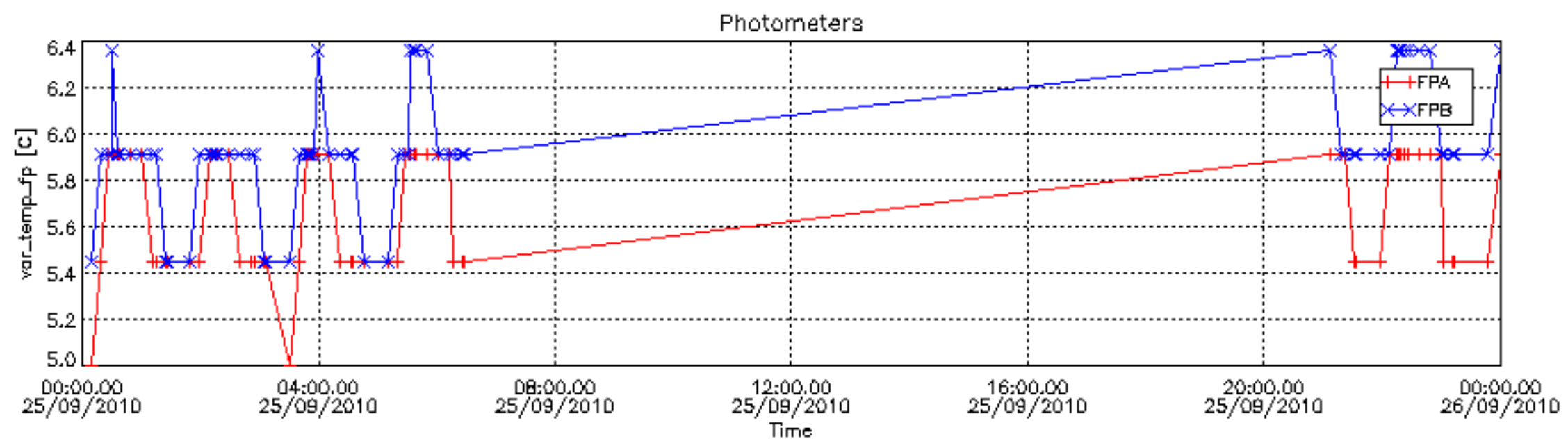
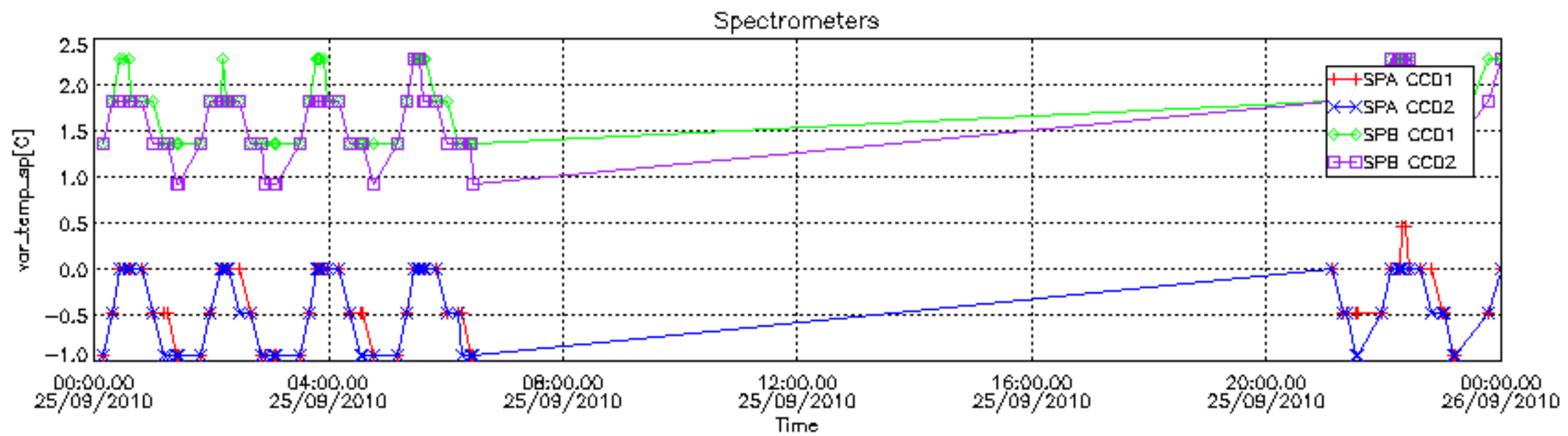
### 8. Auxiliary Data Files used for the production reported in section 2.4

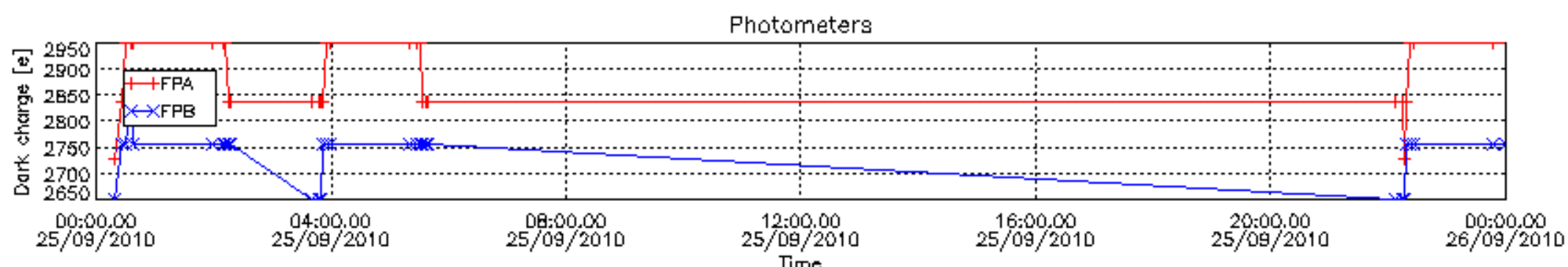
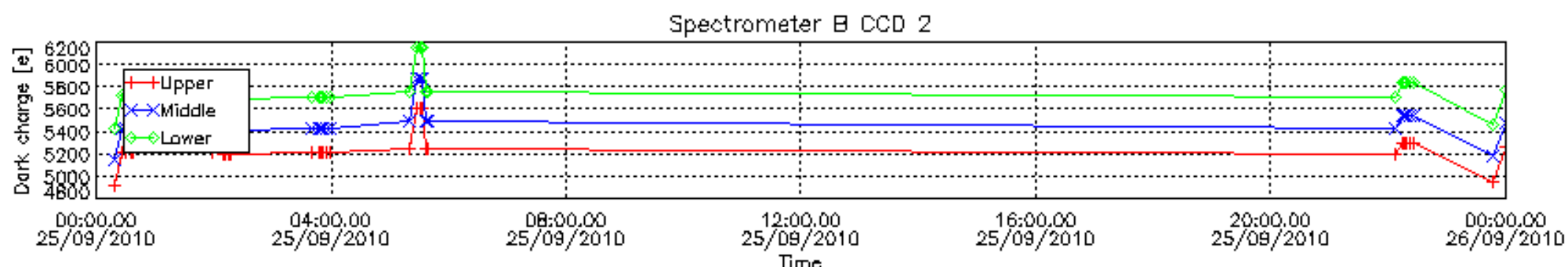
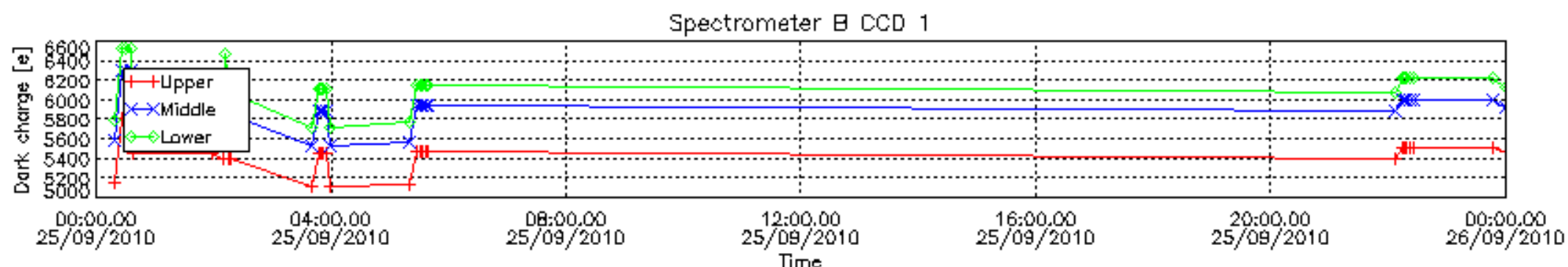
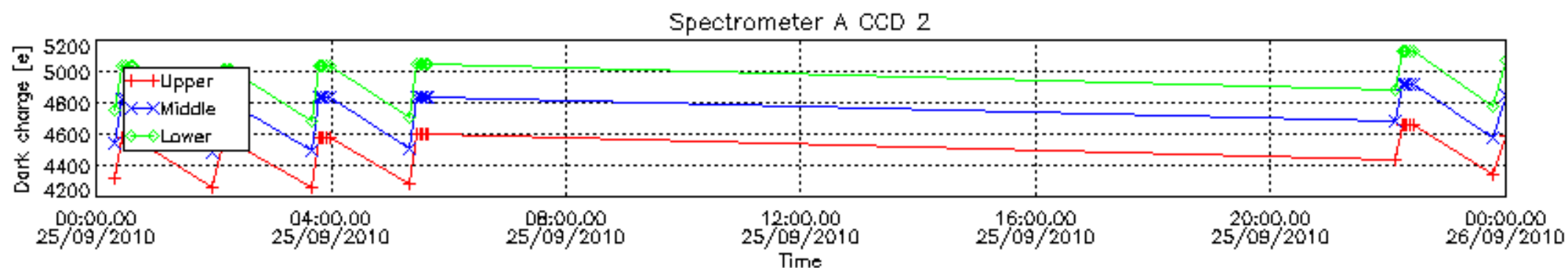
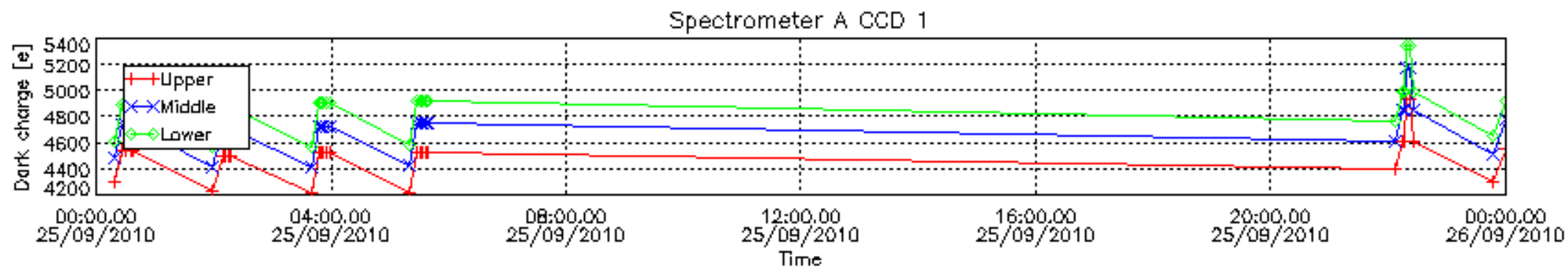
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	25-SEP-2010 00:08:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-SEP-2010 00:08:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	25-SEP-2010 00:08:55
ECMWF_FILE	AUX_ECF_AXNECM20100924_054114_20100924_210000_20100925_090000	1	25-SEP-2010 00:08:55
ECMWF_FILE	AUX_ECA_AXNECM20100925_051629_20100924_210000_20100925_090000	16	25-SEP-2010 02:09:49
ECMWF_FILE	AUX_ECF_AXNECM20100925_053629_20100925_210000_20100926_090000	52	25-SEP-2010 21:07:30
OPTIONAL_ECMWF_FILE	MISSING	1	25-SEP-2010 00:08:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100924_223800_000057382093_00158_44801_1131.N1	1	25-SEP-2010 00:08:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100925_001857_000057382093_00159_44802_1132.N1	3	25-SEP-2010 00:25:56
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100924_092113_20100923_182346_20101003_213034	16	25-SEP-2010 02:09:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100925_031417_000057382093_00161_44804_1134.N1	26	25-SEP-2010 03:30:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100925_045514_000057382093_00162_44805_1135.N1	39	25-SEP-2010 05:10:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100925_205655_000038252093_00172_44815_1136.N1	52	25-SEP-2010 21:07:30
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100925_211631_20100924_193244_20101004_205856	59	25-SEP-2010 22:13:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100925_234657_000057382093_00173_44816_1138.N1	71	25-SEP-2010 23:59:17

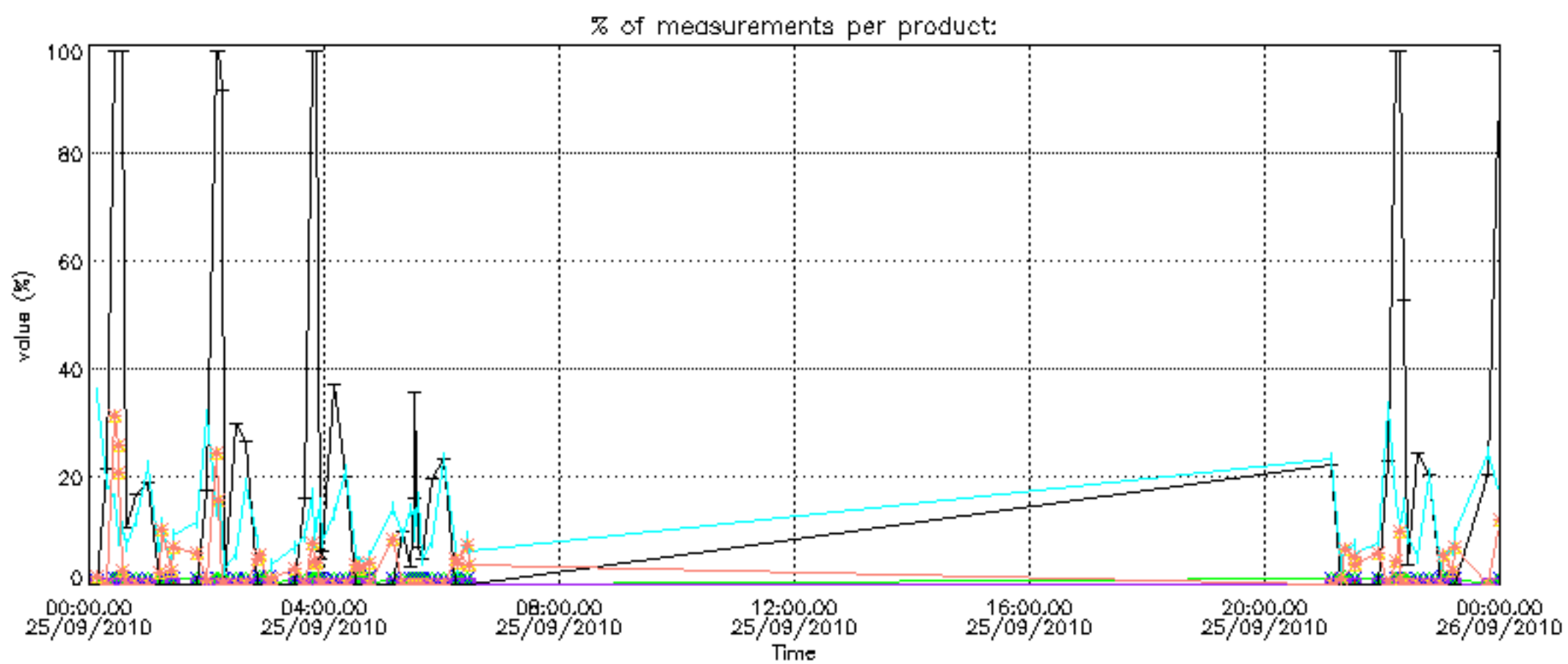




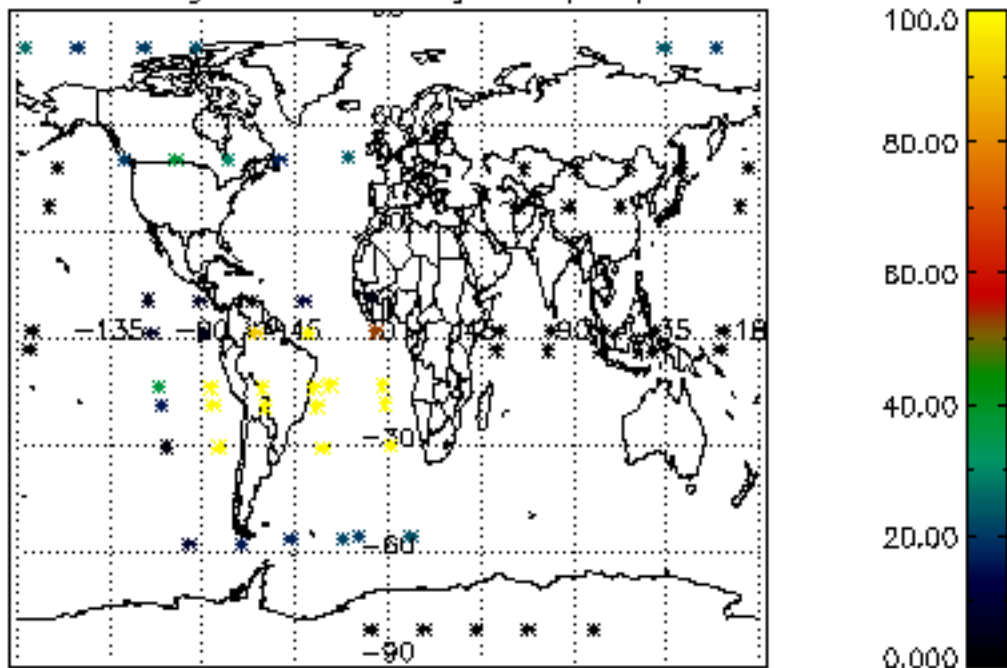




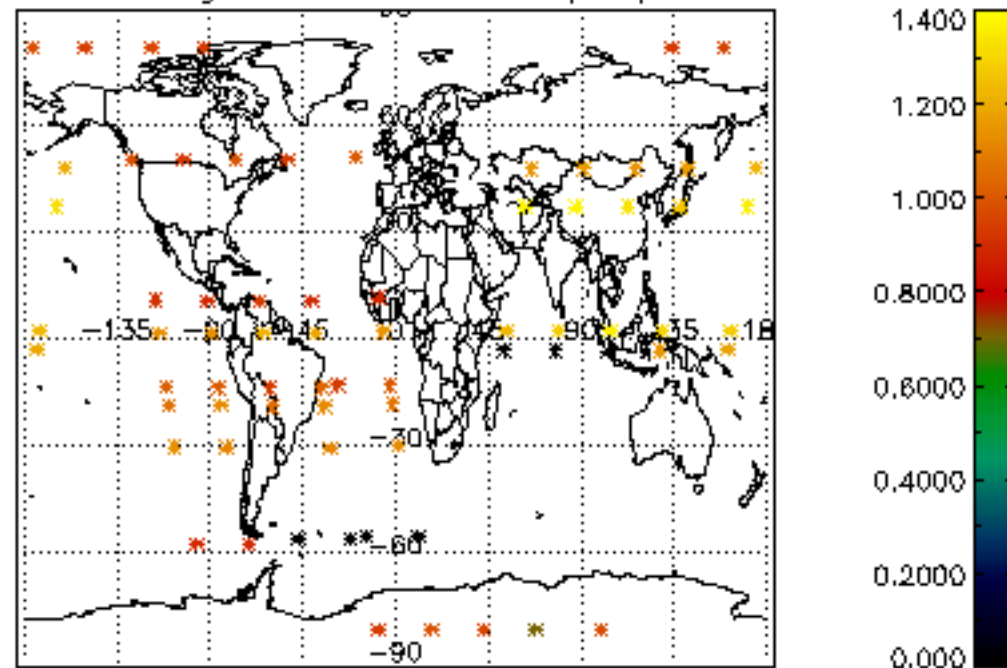




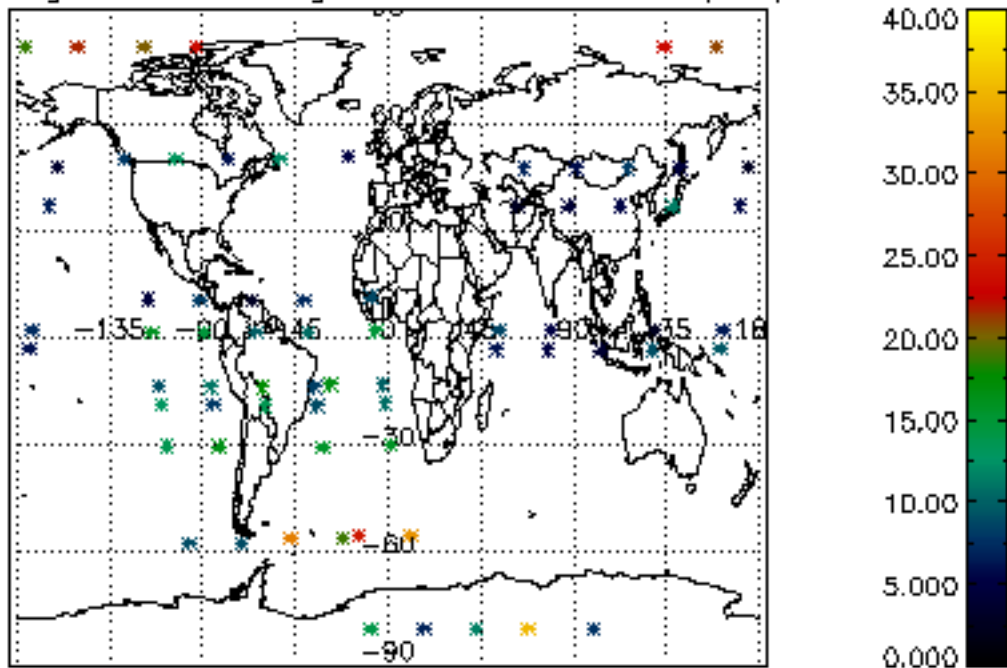
Percentage of cosmic ray hits per profile



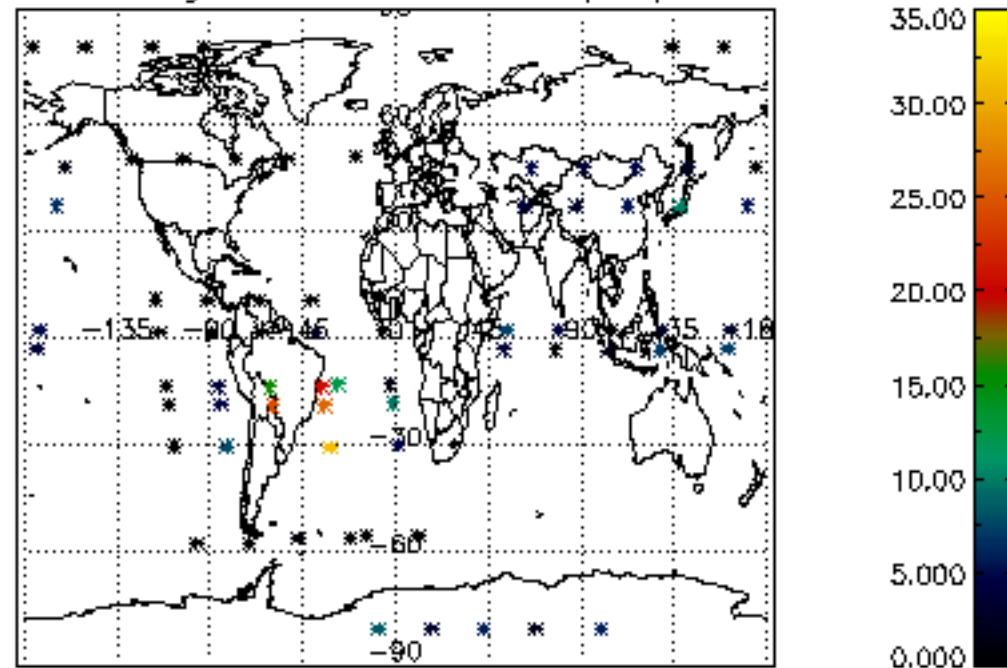
Percentage of datation errors per profile



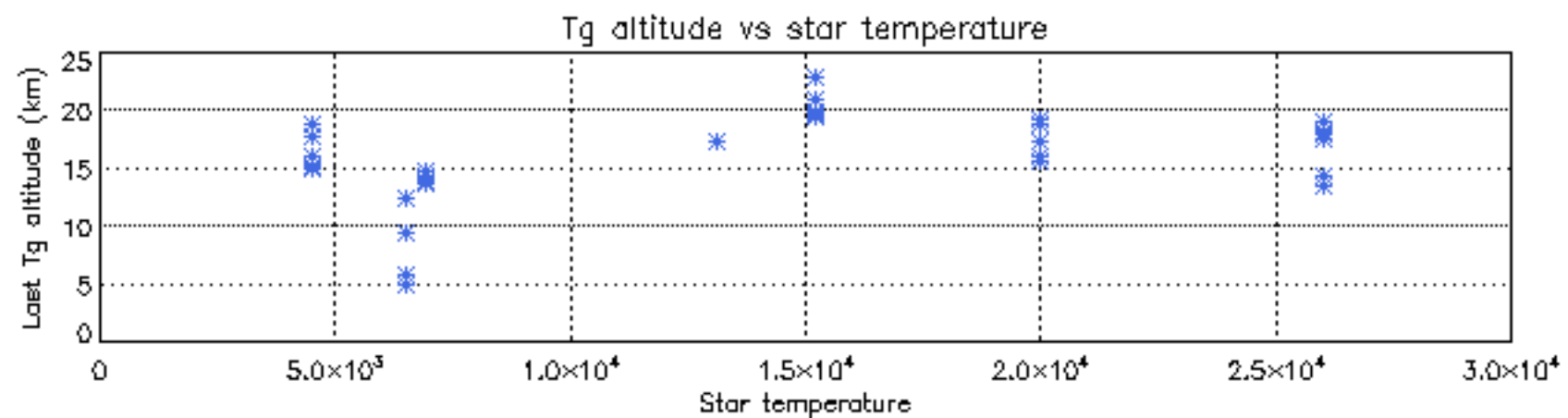
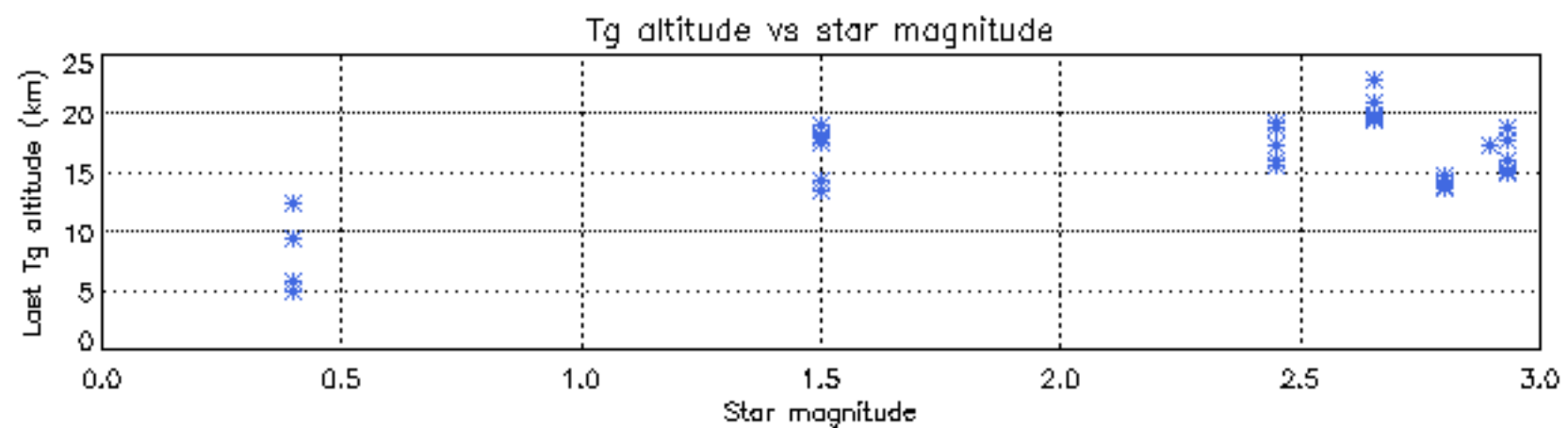
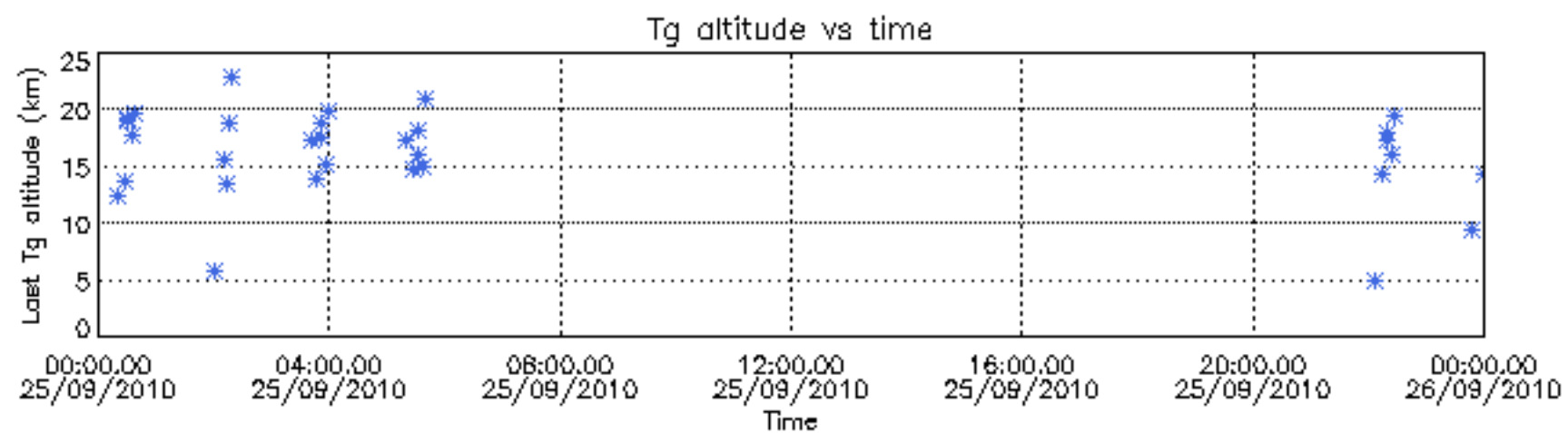
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

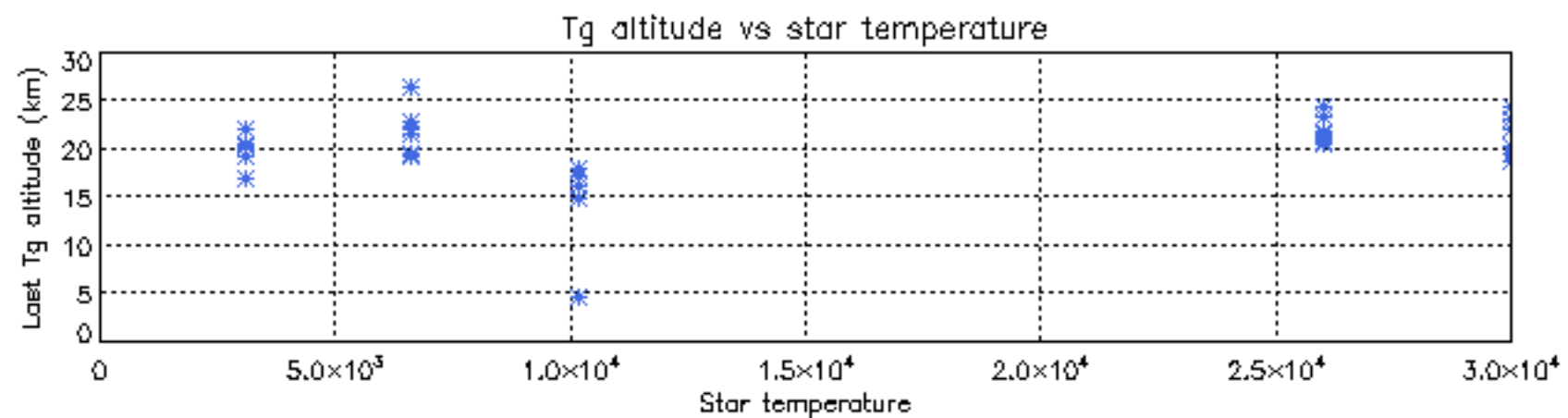
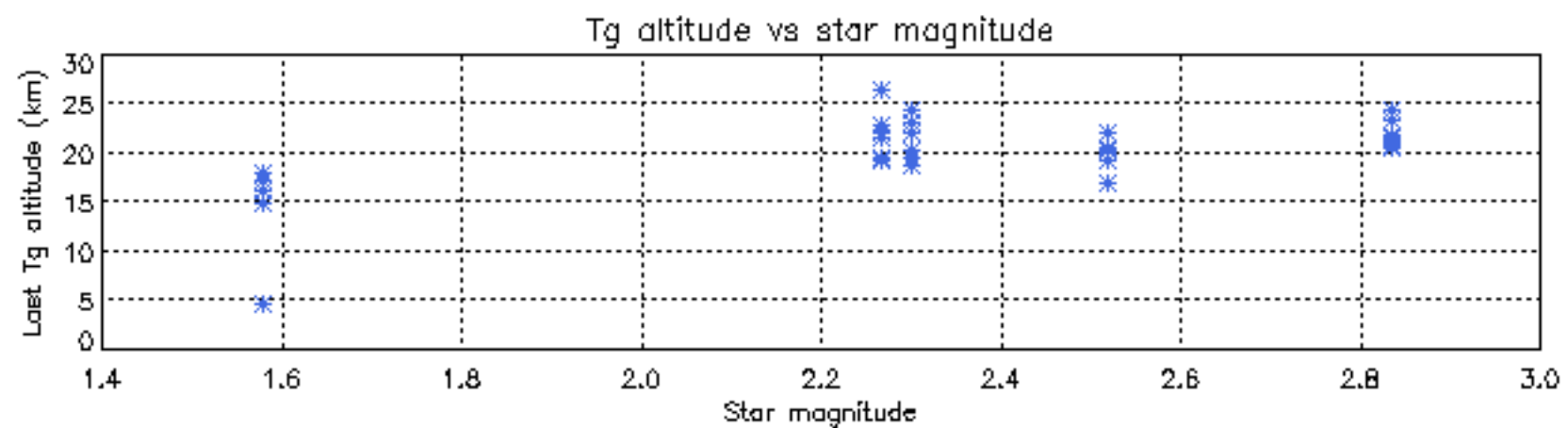
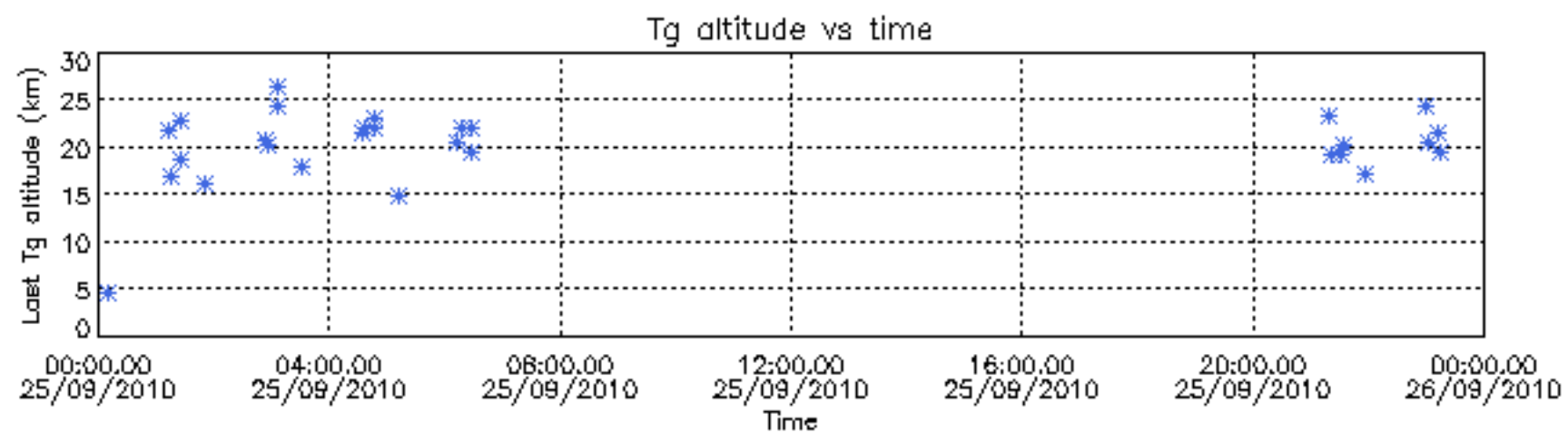


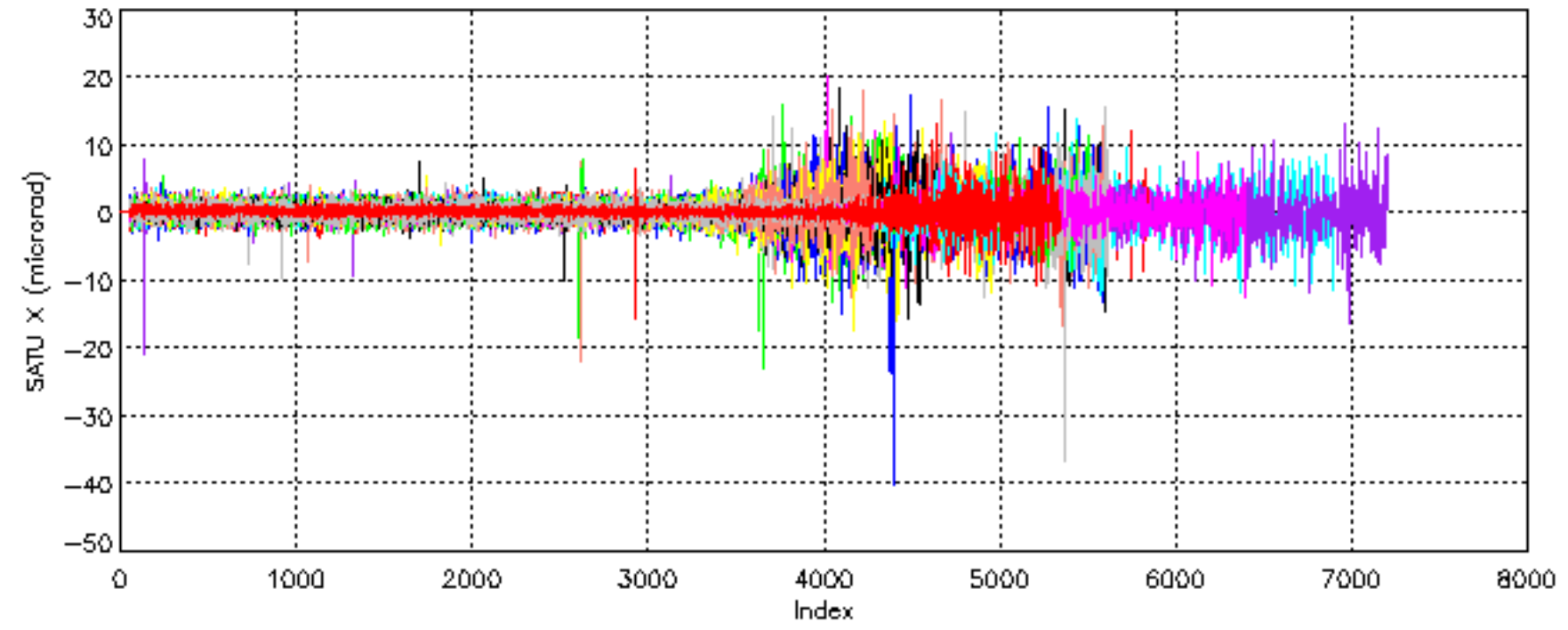
Tangent altitude at which the star is lost

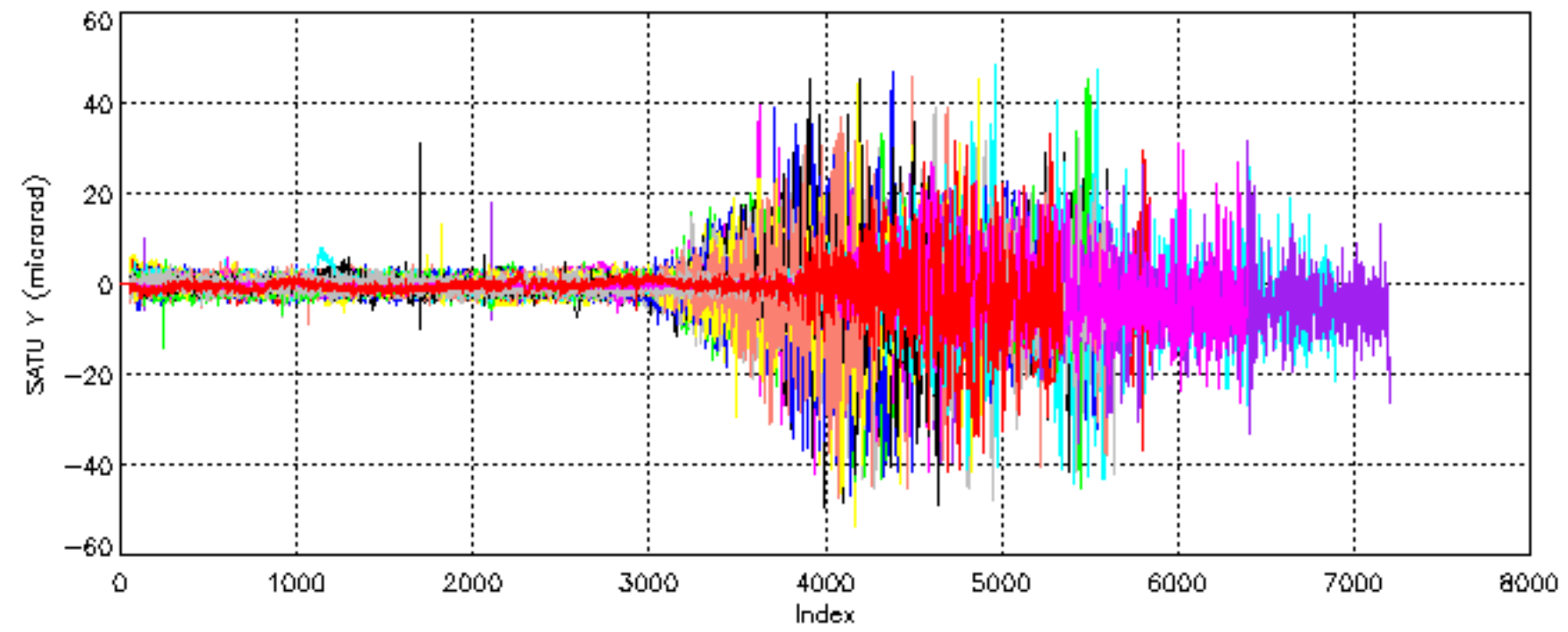




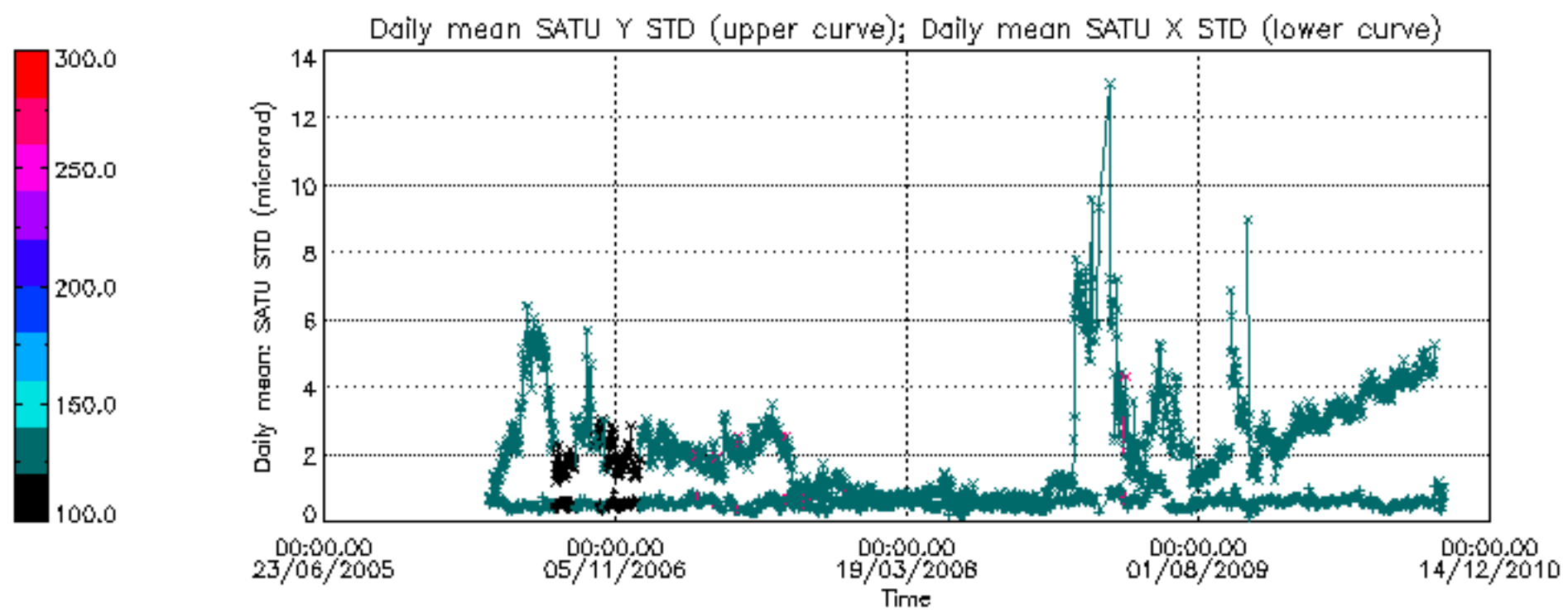
Tangent altitude at which the star is lost











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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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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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7; 4467.1; 08-SEP-2010 19:09:30; Bright; 40.5; 24; 66Alp Gem ; 1.58; 10200;occ; 81; 0;44570  
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4; 669.4; 09-SEP-2010 02:29:12; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;44575

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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
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3; -1394.5; 09-SEP-2010 03:35:24; Dark ; 56.5; 170; 27Eps Gem ; 3.00; 9700;occ; 113; 0;44575
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5; -1080.9; 09-SEP-2010 03:40:37; Dark ; 58.0; 8; 10Alp CMi ; 0.40; 6500;occ; 116; 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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3; -1394.3; 09-SEP-2010 05:16:00; Dark ; 51.5; 170; 27Eps Gem ; 3.00; 9700;occ; 103; 0;44576
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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
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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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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
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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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13; 5820.5; 09-SEP-2010 08:56:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44578  
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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  
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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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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  
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4; 4377.8; 09-SEP-2010 20:17:00; Bright; 54.0; 107; 37The Aur ; 2.65; 11000;occ; 108; 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; 638.9; 10-SEP-2010 08:39:28; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;44593
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3; 3704.6; 10-SEP-2010 11:11:10; Bright; 66.0; 35; 33Alp Per ; 1.79; 6250;occ; 132; 0;44594
4; 4112.3; 10-SEP-2010 11:17:57; Bright; 17.5; 6; 13Alp Aur ; 0.08; 3400;occ; 35; 0;44594
5; 4377.7; 10-SEP-2010 11:22:23; Bright; 14.5; 107; 37The Aur ; 2.65; 11000;occ; 29; 0;44594
6; 4854.0; 10-SEP-2010 11:30:19; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;44594
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3; 4111.9; 10-SEP-2010 12:58:33; Bright; 65.0; 6; 13Alp Aur ; 0.08; 3400;occ; 130; 0;44595
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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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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3; 4375.8; 13-SEP-2010 11:28:05; Bright; 54.0; 107; 37The Aur ; 2.65; 11000;occ; 108; 0;44637
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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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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
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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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 3; 1069.1; 16-SEP-2010 10:38:43; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44680
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 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
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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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 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
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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
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13; 6063.3; 16-SEP-2010 17:03:45; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44684
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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
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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
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6; 643.3; 16-SEP-2010 23:56:25; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;44688
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14; 3128.4; 17-SEP-2010 00:37:50; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;44688
15; 4483.0; 17-SEP-2010 01:00:25; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;44688
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 5; -219.9; 23-SEP-2010 03:14:42; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;44775
 6; -32.1; 23-SEP-2010 03:17:50; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44775
 7; 87.3; 23-SEP-2010 03:19:49; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44776
 8; 771.0; 23-SEP-2010 03:31:13; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;44776
 9; 1105.0; 23-SEP-2010 03:36:47; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44776
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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 1; -1540.6; 23-SEP-2010 04:33:18; Bright; 48.0; 24; 66Alp Gem ; 1.58; 10200;occ; 96; 0;44776
 2; -971.8; 23-SEP-2010 04:42:46; Dark ; 60.5; 8; 10Alp CMI ; 0.40; 6500;occ; 121; 0;44776
 3; -532.4; 23-SEP-2010 04:50:06; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44776
 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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1;	1542.4;	23-SEP-2010	15:28:16;	Dark	;	54.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	108;	0;	44783
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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1;	1542.6;	23-SEP-2010	17:08:52;	Dark	;	55.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	110;	0;	44784
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
16;	7144.0;	23-SEP-2010	18:42:14;	Dark	;	16.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	32;	0;	44785

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1;	1108.0;	23-SEP-2010	18:42:14;	Dark	;	45.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	91;	0;	44785
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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1;	1544.8;	24-SEP-2010	19:58:29;	Dark	;	53.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	106;	0;	44800
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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1;	-953.9;	24-SEP-2010	20:57:26;	Dark	;	73.0;	8;	10Alp	CMI	;	0.40;	6500;	occ;	146;	0;	44800
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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 1; -320.9; 24-SEP-2010 22:48:35; Dark ; 45.0; 88; 31Eta CMA ; 2.45; 20000;occ; 90; 0;44801
 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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 2; -960.0; 24-SEP-2010 07:32:33; Dark ; 67.0; 8; 10Alp CMi ; 0.40; 6500;occ; 134; 0;44792
 3; -522.2; 24-SEP-2010 07:39:51; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44792
 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
 6; -111.1; 24-SEP-2010 07:46:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44792
 7; 16.1; 24-SEP-2010 07:48:49; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44793
 8; 159.9; 24-SEP-2010 07:51:13; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;44793
 9; 836.4; 24-SEP-2010 08:02:29; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;44793
10; 1543.9; 24-SEP-2010 08:14:17; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;44793
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 1; 2167.1; 24-SEP-2010 08:24:40; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;44793
 2; 2391.0; 24-SEP-2010 08:28:24; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;44793
 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
 5; 3074.6; 24-SEP-2010 08:39:47; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44793
 6; 4497.9; 24-SEP-2010 09:03:31; Bright; 49.5; 24; 66Alp Gem ; 1.58; 10200;occ; 99; 0;44793
 7; 5076.7; 24-SEP-2010 09:13:10; Dark ; 58.5; 8; 10Alp CMi ; 0.40; 6500;occ; 117; 0;44793
 8; 5514.5; 24-SEP-2010 09:20:27; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;44793
 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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7; 5523.7; 25-SEP-2010 08:48:59; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;44807
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8; 5722.4; 25-SEP-2010 12:13:30; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 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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11; 5938.1; 25-SEP-2010 17:18:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44812
12; 6065.7; 25-SEP-2010 17:21:01; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;44813
13; 6224.4; 25-SEP-2010 17:23:40; Dark ; 55.0; 108; Alp Col ; 2.65; 15200;occ; 110; 0;44813
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 6; 4500.6; 25-SEP-2010 18:35:32; Bright; 55.0; 24; 66Alp Gem ; 1.58; 10200;occ; 110; 0;44813
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 8; 5527.8; 25-SEP-2010 18:52:39; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44813
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 4; 2973.5; 25-SEP-2010 21:31:17; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44815
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 10; 2192.7; 29-SEP-2010 02:25:48; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44861  
 11; 2444.5; 29-SEP-2010 02:30:00; Bright; 42.0; 58; 21Alp And ; 2.07; 11000;occ; 84; 0;44861  
 12; 2683.1; 29-SEP-2010 02:33:58; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44861  
 13; 2959.4; 29-SEP-2010 02:38:35; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;44861  
 14; 3044.3; 29-SEP-2010 02:39:59; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44861

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 2; -902.4; 29-SEP-2010 03:14:49; Dark ; 53.0; 8; 10Alp CMI ; 0.40; 6500;occ; 106; 0;44861  
 3; -473.5; 29-SEP-2010 03:21:58; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;44861  
 4; -264.0; 29-SEP-2010 03:25:27; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;44861  
 5; -165.7; 29-SEP-2010 03:27:05; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;44861  
 6; -63.8; 29-SEP-2010 03:28:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44861  
 7; 64.5; 29-SEP-2010 03:30:56; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;44862  
 8; 148.3; 29-SEP-2010 03:32:19; Dark ; 55.5; 2; Alp Car ;-0.74; 7000;occ; 111; 0;44862  
 9; 260.2; 29-SEP-2010 03:34:11; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;44862  
 10; 892.4; 29-SEP-2010 03:44:44; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44862  
 11; 1553.2; 29-SEP-2010 03:55:44; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44862  
 12; 2192.4; 29-SEP-2010 04:06:24; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44862  
 13; 2444.4; 29-SEP-2010 04:10:36; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44862  
 14; 2682.5; 29-SEP-2010 04:14:34; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44862  
 15; 2959.3; 29-SEP-2010 04:19:10; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44862  
 16; 3044.0; 29-SEP-2010 04:20:35; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44862

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 2;-1442.4; 29-SEP-2010 04:46:25; Bright; 55.0; 17; 78Bet Gem ; 1.16; 4500;occ; 110; 0;44862  
 3; -901.4; 29-SEP-2010 04:55:26; Dark ; 44.0; 8; 10Alp CMI ; 0.40; 6500;occ; 88; 0;44862  
 4; -472.9; 29-SEP-2010 05:02:34; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44862  
 5; -262.9; 29-SEP-2010 05:06:04; Dark ; 46.5; 88; 31Eta CMA ; 2.45; 20000;occ; 93; 0;44862  
 6; -164.5; 29-SEP-2010 05:07:43; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;44862  
 7; -63.1; 29-SEP-2010 05:09:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44862  
 8; 65.1; 29-SEP-2010 05:11:32; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44863  
 9; 149.0; 29-SEP-2010 05:12:56; Dark ; 55.5; 2; Alp Car ;-0.74; 7000;occ; 111; 0;44863  
 10; 261.8; 29-SEP-2010 05:14:49; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;44863  
 11; 893.2; 29-SEP-2010 05:25:20; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;44863  
 12; 1553.4; 29-SEP-2010 05:36:20; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44863  
 13; 2192.0; 29-SEP-2010 05:46:59; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44863  
 14; 2444.1; 29-SEP-2010 05:51:11; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44863  
 15; 2681.7; 29-SEP-2010 05:55:09; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44863  
 16; 2959.0; 29-SEP-2010 05:59:46; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44863  
 17; 3043.6; 29-SEP-2010 06:01:11; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44863

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 2; 2190.0; 29-SEP-2010 20:52:20; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44872  
 3; 2441.2; 29-SEP-2010 20:56:32; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44872  
 4; 2674.7; 29-SEP-2010 21:00:25; Bright; 50.5; 53; 43Bet And ; 2.05; 3300;occ; 101; 0;44872  
 5; 2956.5; 29-SEP-2010 21:05:07; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44872  
 6; 3039.7; 29-SEP-2010 21:06:30; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44872  
 7; 4595.8; 29-SEP-2010 21:32:26; Bright; 58.5; 17; 78Bet Gem ; 1.16; 4500;occ; 117; 0;44872

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 2;-1442.3; 29-SEP-2010 06:27:01; Bright; 54.5; 17; 78Bet Gem ; 1.16; 4500;occ; 109; 0;44863  
 3; -900.4; 29-SEP-2010 06:36:03; Dark ; 44.0; 8; 10Alp CMI ; 0.40; 6500;occ; 88; 0;44863  
 4; -472.0; 29-SEP-2010 06:43:11; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44863  
 5; -261.9; 29-SEP-2010 06:46:41; Dark ; 52.0; 88; 31Eta CMA ; 2.45; 20000;occ; 104; 0;44863  
 6; -163.4; 29-SEP-2010 06:48:20; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;44863  
 7; -62.3; 29-SEP-2010 06:50:01; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44863  
 8; 65.8; 29-SEP-2010 06:52:09; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;44864  
 9; 149.7; 29-SEP-2010 06:53:33; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44864



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10; 263.4; 29-SEP-2010 06:55:26; Dark ; 41.0; 108; Alp Col ; 2.65; 15200;occ; 82; 0;44864
11; 893.8; 29-SEP-2010 07:05:57; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44864
12; 1553.5; 29-SEP-2010 07:16:57; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;44864
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2; 2443.8; 29-SEP-2010 07:31:47; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44864
3; 2681.0; 29-SEP-2010 07:35:44; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44864
4; 2958.7; 29-SEP-2010 07:40:22; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44864
5; 3043.1; 29-SEP-2010 07:41:46; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44864
6; 4594.0; 29-SEP-2010 08:07:37; Bright; 56.0; 17; 78Bet Gem ; 1.16; 4500;occ; 112; 0;44864
7; 5136.4; 29-SEP-2010 08:16:40; Dark ; 36.0; 8; 10Alp CMi ; 0.40; 6500;occ; 72; 0;44864
8; 5564.6; 29-SEP-2010 08:23:48; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44864
9; 5775.1; 29-SEP-2010 08:27:18; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44864
10; 5873.9; 29-SEP-2010 08:28:57; Dark ; 57.0; 23; 21Eps CMA ; 1.50; 26000;occ; 114; 0;44864
11; 5974.3; 29-SEP-2010 08:30:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44864
12; 6102.4; 29-SEP-2010 08:32:45; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44865
13; 6186.5; 29-SEP-2010 08:34:10; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;44865
14; 6300.5; 29-SEP-2010 08:36:04; Dark ; 41.0; 108; Alp Col ; 2.65; 15200;occ; 82; 0;44865
15; 6930.8; 29-SEP-2010 08:46:34; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44865
16; 7589.6; 29-SEP-2010 08:57:33; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;44865
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2; 2443.4; 29-SEP-2010 09:12:22; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;44865
3; 2680.0; 29-SEP-2010 09:16:19; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44865
4; 2958.6; 29-SEP-2010 09:20:58; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44865
5; 3042.6; 29-SEP-2010 09:22:22; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44865
6; 4594.3; 29-SEP-2010 09:48:13; Bright; 57.0; 17; 78Bet Gem ; 1.16; 4500;occ; 114; 0;44865
7; 5137.3; 29-SEP-2010 09:57:16; Dark ; 36.0; 8; 10Alp CMi ; 0.40; 6500;occ; 72; 0;44865
8; 5565.3; 29-SEP-2010 10:04:24; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44865
9; 5776.1; 29-SEP-2010 10:07:55; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;44865
10; 5875.1; 29-SEP-2010 10:09:34; Dark ; 55.5; 23; 21Eps CMA ; 1.50; 26000;occ; 111; 0;44865
11; 5975.0; 29-SEP-2010 10:11:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44865
12; 6103.3; 29-SEP-2010 10:13:22; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;44866
13; 6187.3; 29-SEP-2010 10:14:46; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;44866
14; 6302.1; 29-SEP-2010 10:16:41; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;44866
15; 6931.6; 29-SEP-2010 10:27:11; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44866
16; 7589.8; 29-SEP-2010 10:38:09; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44866
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2; 2443.0; 29-SEP-2010 10:52:58; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44866
3; 2679.4; 29-SEP-2010 10:56:54; Bright; 52.0; 53; 43Bet And ; 2.05; 3300;occ; 104; 0;44866
4; 2958.2; 29-SEP-2010 11:01:33; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44866
5; 3042.2; 29-SEP-2010 11:02:57; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44866
6; 4594.5; 29-SEP-2010 11:28:49; Bright; 74.0; 17; 78Bet Gem ; 1.16; 4500;occ; 148; 0;44866
7; 5138.3; 29-SEP-2010 11:37:53; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;44866
8; 5566.0; 29-SEP-2010 11:45:01; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44866
9; 5777.1; 29-SEP-2010 11:48:32; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44866
10; 5876.1; 29-SEP-2010 11:50:11; Dark ; 59.0; 23; 21Eps CMA ; 1.50; 26000;occ; 118; 0;44866
11; 5975.7; 29-SEP-2010 11:51:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44866
12; 6103.8; 29-SEP-2010 11:53:59; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;44867
13; 6188.0; 29-SEP-2010 11:55:23; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;44867
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15; 6932.3; 29-SEP-2010 12:07:47; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44867
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2; 2191.1; 29-SEP-2010 12:29:22; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44867
3; 2442.9; 29-SEP-2010 12:33:34; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44867
4; 2678.7; 29-SEP-2010 12:37:29; Bright; 52.5; 53; 43Bet And ; 2.05; 3300;occ; 105; 0;44867
5; 2958.0; 29-SEP-2010 12:42:09; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44867
6; 3041.8; 29-SEP-2010 12:43:33; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44867
7; 4594.7; 29-SEP-2010 13:09:25; Bright; 58.5; 17; 78Bet Gem ; 1.16; 4500;occ; 117; 0;44867
8; 5139.2; 29-SEP-2010 13:18:30; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;44867
9; 5567.0; 29-SEP-2010 13:25:38; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;44867
10; 5778.2; 29-SEP-2010 13:29:09; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44867
11; 5877.3; 29-SEP-2010 13:30:48; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;44867
12; 5976.4; 29-SEP-2010 13:32:27; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44867
13; 6104.8; 29-SEP-2010 13:34:36; Dark ; 50.0; 161; Tau Pup ; 2.93; 4500;occ; 100; 0;44868
14; 6188.8; 29-SEP-2010 13:36:00; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;44868

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3; 2442.3; 29-SEP-2010 14:14:09; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;44868
4; 2678.0; 29-SEP-2010 14:18:05; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;44868
5; 2957.7; 29-SEP-2010 14:22:44; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44868
6; 3041.5; 29-SEP-2010 14:24:08; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;44868
7; 4594.9; 29-SEP-2010 14:50:02; Bright; 68.0; 17; 78Bet Gem ; 1.16; 4500;occ; 136; 0;44868
8; 5567.9; 29-SEP-2010 15:06:15; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44868
9; 5779.2; 29-SEP-2010 15:09:46; Dark ; 45.5; 88; 31Eta CMA ; 2.45; 20000;occ; 91; 0;44868
10; 5878.7; 29-SEP-2010 15:11:25; Dark ; 61.5; 23; 21Eps CMA ; 1.50; 26000;occ; 123; 0;44868
11; 5977.2; 29-SEP-2010 15:13:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44868
12; 6105.5; 29-SEP-2010 15:15:12; Dark ; 49.5; 161; Tau Pup ; 2.93; 4500;occ; 99; 0;44869
13; 6189.5; 29-SEP-2010 15:16:36; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;44869
14; 6306.6; 29-SEP-2010 15:18:33; Dark ; 36.0; 108; Alp Col ; 2.65; 15200;occ; 72; 0;44869
15; 6933.7; 29-SEP-2010 15:29:00; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44869
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2; 2190.4; 29-SEP-2010 15:50:33; Bright; 39.5; 140; 88Gam Peg ; 2.83; 26000;occ; 79; 0;44869
3; 2441.8; 29-SEP-2010 15:54:44; Bright; 41.0; 58; 21Alp And ; 2.07; 11000;occ; 82; 0;44869
4; 2677.0; 29-SEP-2010 15:58:40; Bright; 50.5; 53; 43Bet And ; 2.05; 3300;occ; 101; 0;44869
5; 2957.3; 29-SEP-2010 16:03:20; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44869
6; 3041.0; 29-SEP-2010 16:04:44; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44869
7; 4595.3; 29-SEP-2010 16:30:38; Bright; 61.5; 17; 78Bet Gem ; 1.16; 4500;occ; 123; 0;44869
8; 5568.8; 29-SEP-2010 16:46:51; Dark ; 46.5; 132; 15Rho Pup ; 2.80; 6900;occ; 93; 0;44869
9; 5780.1; 29-SEP-2010 16:50:23; Dark ; 50.5; 88; 31Eta CMA ; 2.45; 20000;occ; 101; 0;44869
10; 5879.8; 29-SEP-2010 16:52:02; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;44869
11; 5978.0; 29-SEP-2010 16:53:40; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44869
12; 6190.4; 29-SEP-2010 16:57:13; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;44870
13; 6308.3; 29-SEP-2010 16:59:11; Dark ; 33.0; 108; Alp Col ; 2.65; 15200;occ; 66; 0;44870
14; 6934.6; 29-SEP-2010 17:09:37; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44870
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3; 2441.5; 29-SEP-2010 17:35:20; Bright; 42.0; 58; 21Alp And ; 2.07; 11000;occ; 84; 0;44870
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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
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7; 1555.0; 30-SEP-2010 01:43:33; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44875
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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
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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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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
12; 5988.2; 30-SEP-2010 16:22:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44883
13; 6200.8; 30-SEP-2010 16:25:46; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;44884
14; 6329.2; 30-SEP-2010 16:27:55; Dark ; 60.0; 108; Alp Col ; 2.65; 15200;occ; 120; 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
4; 2666.0; 30-SEP-2010 17:07:27; Bright; 51.5; 53; 43Bet And ; 2.05; 3300;occ; 103; 0;44884
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
10; 5580.5; 30-SEP-2010 17:56:02; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44884
11; 5826.5; 30-SEP-2010 18:00:08; Dark ; 52.5; 37; 25Del CMA ; 1.83; 5900;occ; 105; 0;44884
12; 5988.9; 30-SEP-2010 18:02:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44884
13; 6201.4; 30-SEP-2010 18:06:23; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;44885
14; 6330.7; 30-SEP-2010 18:08:32; Dark ; 55.5; 108; Alp Col ; 2.65; 15200;occ; 111; 0;44885
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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
4; 2665.2; 30-SEP-2010 18:48:03; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44885
5; 2952.9; 30-SEP-2010 18:52:50; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44885

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8;	4599.5;	30-SEP-2010	19:20:17;	Bright;	62.5;	17;	78Bet Gem	;	1.16;	4500;occ;	125;	0;44885	
9;	5156.9;	30-SEP-2010	19:29:34;	Dark	;	54.0;	8;	10Alp CMi	;	0.40;	6500;occ;	108;	0;44885
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12;	5989.6;	30-SEP-2010	19:43:27;	Dark	;	59.0;	0;		;	0.00;	0;occ;	118;	0;44885
13;	6202.1;	30-SEP-2010	19:46:59;	Dark	;	56.0;	2;	Alp Car	;	-0.74;	7000;occ;	112;	0;44886
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15;	6946.5;	30-SEP-2010	19:59:24;	Dark	;	49.5;	157;	The1Eri	;	2.91;	9300;occ;	99;	0;44886