

GOMOS Daily Report 04-DEC-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	14DEC2010 15:30:47
Data source version	GOMOS/5.01
Start time of products	04DEC2010 00:02:59
Stop time of products	04DEC2010 23:59:23
Store outputs in DB	No
Nb of level 1b prods	128
Nb of prods with errors	1

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

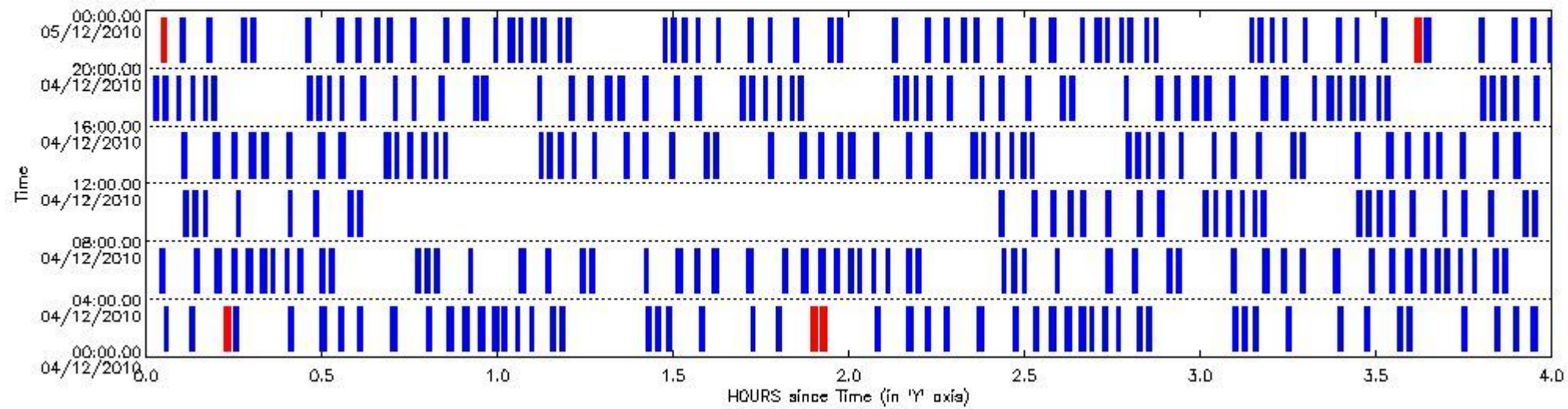
2.1 Level 0 products arrived in PCF (see template [here](#))

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
04-DEC-2010 00:13:11	4GamCrv	100	45806
04-DEC-2010 01:53:26	4GamCrv	100	45807
04-DEC-2010 01:55:02	2EpsCrv	171	45807
04-DEC-2010 20:02:35	8EtaBoo	111	45818
04-DEC-2010 23:36:40	4GamCrv	100	45820

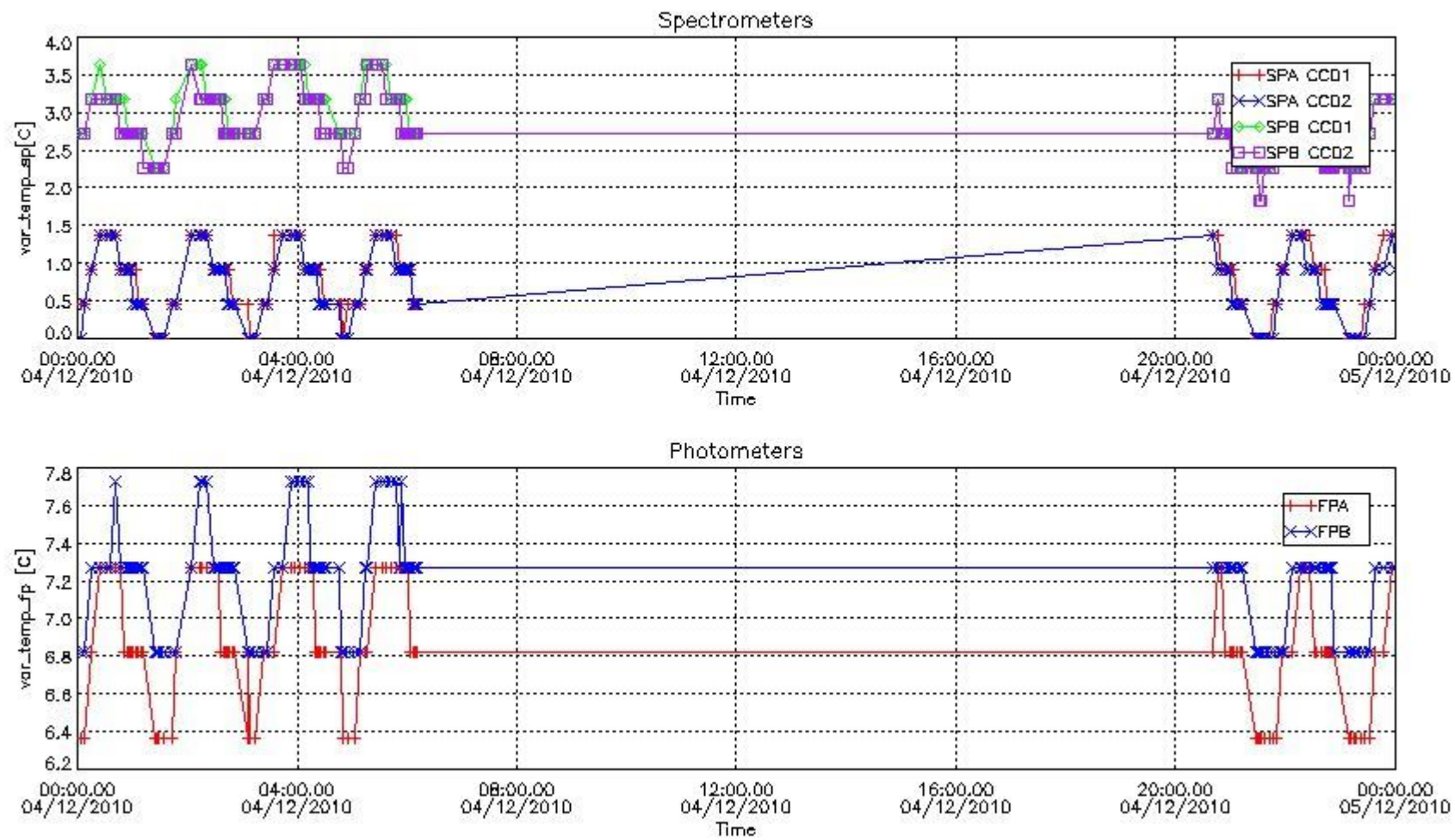
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101204_000259_000000443097_00102_45806_3371.N1	04-DEC-2010 00:02:59	Bright	44.000	138	47Eps Vir	2.8280	4700.0	88	45806	No
2	GOM_TRA_1PNPDE20101204_000727_000000473097_00102_45806_3372.N1	04-DEC-2010 00:07:27	Bright	46.500	121	29Gam Vir	2.7400	7200.0	93	45806	No
3	GOM_TRA_1PNPDE20101204_001451_000000473097_00102_45806_3399.N1	04-DEC-2010 00:14:51	Dark	46.500	171	2Eps Crv	3.0010	4250.0	93	45806	No
4	GOM_TRA_1PNPDE20101204_002415_000000463097_00103_45807_3400.N1	04-DEC-2010 00:24:15	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	45807	No
5	GOM_TRA_1PNPDE20101204_003253_000000493097_00103_45807_3401.N1	04-DEC-2010 00:32:53	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	45807	No
6	GOM_TRA_1PNPDE20101204_003600_000000533097_00103_45807_3402.N1	04-DEC-2010 00:36:00	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	45807	No

7	GOM_TRA_1PNPDE20101204_004143_000000553097_00103_45807_3403.N1	04-DEC-2010 00:41:43	Dark	55.000	23	21Eps CMa	1.5020	26000.	110	45807	No
8	GOM_TRA_1PNPDE20101204_004750_000000553097_00103_45807_3404.N1	04-DEC-2010 00:47:50	Straylight	54.500	101	11Alp Lep	2.5820	7000.0	109	45807	No
9	GOM_TRA_1PNPDE20101204_005117_000000643097_00103_45807_3405.N1	04-DEC-2010 00:51:17	Straylight	63.500	7	19Bet Ori	0.10000	14000.	127	45807	No
10	GOM_TRA_1PNPDE20101204_005405_000000603097_00103_45807_3406.N1	04-DEC-2010 00:54:05	Twilight_and_stray	60.000	30	46Eps Ori	1.6940	30000.	120	45807	No
11	GOM_TRA_1PNPDE20101204_005642_000000603097_00103_45807_3407.N1	04-DEC-2010 00:56:42	Twilight_and_stray	60.000	27	24Gam Ori	1.6360	26000.	120	45807	No
12	GOM_TRA_1PNPDE20101204_005905_000000613097_00103_45807_3408.N1	04-DEC-2010 00:59:05	Bright	61.000	13	87Alp Tau	0.86700	3800.0	122	45807	No
13	GOM_TRA_1PNPDE20101204_010049_000000383097_00103_45807_3409.N1	04-DEC-2010 01:00:49	Bright	38.000	146	25Eta Tau	2.8730	15200.	76	45807	No
14	GOM_TRA_1PNPDE20101204_010308_000000383097_00103_45807_3410.N1	04-DEC-2010 01:03:08	Bright	37.500	150	44Zet Per	2.8900	28000.	75	45807	No
15	GOM_TRA_1PNPDE20101204_010532_000000373097_00103_45807_3411.N1	04-DEC-2010 01:05:32	Bright	37.000	149	45Eps Per	2.8880	30000.	74	45807	No
16	GOM_TRA_1PNPDE20101204_010905_000000463097_00103_45807_3412.N1	04-DEC-2010 01:09:05	Bright	45.500	6	13Alp Aur	0.080000	3400.0	91	45807	No
17	GOM_TRA_1PNPDE20101204_011041_000000513097_00103_45807_3413.N1	04-DEC-2010 01:10:41	Bright	51.000	42	34Bet Aur	1.9000	10200.	102	45807	No
18	GOM_TRA_1PNPDE20101204_012526_000000473097_00103_45807_3414.N1	04-DEC-2010 01:25:26	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	45807	No
19	GOM_TRA_1PNPDE20101204_012700_000000473097_00103_45807_3415.N1	04-DEC-2010 01:27:00	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	45807	No
20	GOM_TRA_1PNPDE20101204_012850_000000413097_00103_45807_3416.N1	04-DEC-2010 01:28:50	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	45807	No
21	GOM_TRA_1PNPDE20101204_013428_000000403097_00103_45807_3417.N1	04-DEC-2010 01:34:28	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	45807	No
22	GOM_TRA_1PNPDE20101204_014313_000000443097_00103_45807_3418.N1	04-DEC-2010 01:43:13	Bright	44.000	138	47Eps Vir	2.8280	4700.0	88	45807	No
23	GOM_TRA_1PNPDE20101204_014741_000000493097_00103_45807_3419.N1	04-DEC-2010 01:47:41	Bright	49.000	121	29Gam Vir	2.7400	7200.0	98	45807	No
24	GOM_TRA_1PNPDE20101204_020430_000000453097_00104_45808_3428.N1	04-DEC-2010 02:04:30	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	45808	No
25	GOM_TRA_1PNPDE20101204_021308_000000483097_00104_45808_3429.N1	04-DEC-2010 02:13:08	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	45808	No
26	GOM_TRA_1PNPDE20101204_021614_000000523097_00104_45808_3430.N1	04-DEC-2010 02:16:14	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	45808	No
27	GOM_TRA_1PNPDE20101204_022158_000000583097_00104_45808_3431.N1	04-DEC-2010 02:21:58	Dark	58.000	23	21Eps CMa	1.5020	26000.	116	45808	No
28	GOM_TRA_1PNPDE20101204_022804_000000513097_00104_45808_3432.N1	04-DEC-2010 02:28:04	Straylight	51.000	101	11Alp Lep	2.5820	7000.0	102	45808	No
29	GOM_TRA_1PNPDE20101204_023131_000000563097_00104_45808_3433.N1	04-DEC-2010 02:31:31	Straylight	56.000	7	19Bet Ori	0.10000	14000.	112	45808	No
30	GOM_TRA_1PNPDE20101204_023418_000000623097_00104_45808_3434.N1	04-DEC-2010 02:34:18	Twilight_and_stray	62.000	30	46Eps Ori	1.6940	30000.	124	45808	No
31	GOM_TRA_1PNPDE20101204_023655_000000623097_00104_45808_3435.N1	04-DEC-2010 02:36:55	Twilight_and_stray	62.000	27	24Gam Ori	1.6360	26000.	124	45808	No
32	GOM_TRA_1PNPDE20101204_023919_000000613097_00104_45808_3436.N1	04-DEC-2010 02:39:19	Bright	61.000	13	87Alp Tau	0.86700	3800.0	122	45808	No
33	GOM_TRA_1PNPDE20101204_024103_000000393097_00104_45808_3437.N1	04-DEC-2010 02:41:03	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	45808	No
34	GOM_TRA_1PNPDE20101204_024322_000000393097_00104_45808_3438.N1	04-DEC-2010 02:43:22	Bright	38.500	150	44Zet Per	2.8900	28000.	77	45808	No
35	GOM_TRA_1PNPDE20101204_024545_000000363097_00104_45808_3439.N1	04-DEC-2010 02:45:45	Bright	36.000	149	45Eps Per	2.8880	30000.	72	45808	No
36	GOM_TRA_1PNPDE20101204_024918_000000503097_00104_45808_3440.N1	04-DEC-2010 02:49:18	Bright	49.500	6	13Alp Aur	0.080000	3400.0	99	45808	No
37	GOM_TRA_1PNPDE20101204_025054_000000493097_00104_45808_3441.N1	04-DEC-2010 02:50:54	Bright	49.000	42	34Bet Aur	1.9000	10200.	98	45808	No
38	GOM_TRA_1PNPDE20101204_030539_000000473097_00104_45808_3463.N1	04-DEC-2010 03:05:39	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	45808	No
39	GOM_TRA_1PNPDE20101204_030713_000000483097_00104_45808_3464.N1	04-DEC-2010 03:07:13	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	45808	No
40	GOM_TRA_1PNPDE20101204_030904_000000413097_00104_45808_3465.N1	04-DEC-2010 03:09:04	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	45808	No
41	GOM_TRA_1PNPDE20101204_031442_000000413097_00104_45808_3466.N1	04-DEC-2010 03:14:42	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	45808	No
42	GOM_TRA_1PNPDE20101204_032328_000000443097_00104_45808_3467.N1	04-DEC-2010 03:23:28	Bright	44.000	138	47Eps Vir	2.8280	4700.0	88	45808	No
43	GOM_TRA_1PNPDE20101204_032756_000000503097_00104_45808_3468.N1	04-DEC-2010 03:27:56	Bright	49.500	121	29Gam Vir	2.7400	7200.0	99	45808	No
44	GOM_TRA_1PNPDE20101204_033345_000000503097_00104_45808_3469.N1	04-DEC-2010 03:33:45	Dark	49.500	100	4Gam Crv	2.5800	13100.	99	45808	No
45	GOM_TRA_1PNPDE20101204_033521_000000473097_00104_45808_3470.N1	04-DEC-2010 03:35:21	Dark	47.000	171	2Eps Crv	3.0010	4250.0	94	45808	No
46	GOM_TRA_1PNPDE20101204_034445_000000463097_00105_45809_3471.N1	04-DEC-2010 03:44:45	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45809	No
47	GOM_TRA_1PNPDE20101204_035323_000000483097_00105_45809_3472.N1	04-DEC-2010 03:53:23	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	45809	No
48	GOM_TRA_1PNPDE20101204_035629_000000583097_00105_45809_3473.N1	04-DEC-2010 03:56:29	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	45809	No
49	GOM_TRA_1PNPDE20101204_040212_000000583097_00105_45809_3474.N1	04-DEC-2010 04:02:12	Dark	58.000	23	21Eps CMa	1.5020	26000.	116	45809	No
50	GOM_TRA_1PNPDE20101204_040818_000000503097_00105_45809_3475.N1	04-DEC-2010 04:08:18	Straylight	49.500	101	11Alp Lep	2.5820	7000.0	99	45809	No
51	GOM_TRA_1PNPDE20101204_041145_000000613097_00105_45809_3476.N1	04-DEC-2010 04:11:45	Straylight	61.000	7	19Bet Ori	0.10000	14000.	122	45809	No
52	GOM_TRA_1PNPDE20101204_041432_000000603097_00105_45809_3477.N1	04-DEC-2010 04:14:32	Twilight_and_stray	59.500	30	46Eps Ori	1.6940	30000.	119	45809	No
53	GOM_TRA_1PNPDE20101204_041709_000000593097_00105_45809_3478.N1	04-DEC-2010 04:17:09	Twilight_and_stray	58.500	27	24Gam Ori	1.6360	26000.	117	45809	No
54	GOM_TRA_1PNPDE20101204_041933_000000593097_00105_45809_3479.N1	04-DEC-2010 04:19:33	Bright	58.500	13	87Alp Tau	0.86700	3800.0	117	45809	No
55	GOM_TRA_1PNPDE20101204_042117_000000393097_00105_45809_3480.N1	04-DEC-2010 04:21:17	Bright	39.000	146	25Eta Tau	2.8730	15200.	78	45809	No
56	GOM_TRA_1PNPDE20101204_042336_000000383097_00105_45809_3481.N1	04-DEC-2010 04:23:36	Bright	37.500	150	44Zet Per	2.8900	28000.	75	45809	No
57	GOM_TRA_1PNPDE20101204_042559_000000373097_00105_45809_3482.N1	04-DEC-2010 04:25:59	Bright	37.000	149	45Eps Per	2.8880	30000.	74	45809	No
58	GOM_TRA_1PNPDE20101204_042932_000000513097_00105_45809_3483.N1	04-DEC-2010 04:29:32	Bright	50.500	6	13Alp Aur	0.080000	3400.0	101	45809	No
59	GOM_TRA_1PNPDE20101204_043108_000000503097_00105_45809_3484.N1	04-DEC-2010 04:31:08	Bright	49.500	42	34Bet Aur	1.9000	10200.	99	45809	No
60	GOM_TRA_1PNPDE20101204_044553_000000463097_00105_45809_3494.N1	04-DEC-2010 04:45:53	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	45809	No
61	GOM_TRA_1PNPDE20101204_044727_000000483097_00105_45809_3495.N1	04-DEC-2010 04:47:27	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	45809	No
62	GOM_TRA_1PNPDE20101204_044918_000000423097_00105_45809_3496.N1	04-DEC-2010 04:49:18	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	45809	No
63	GOM_TRA_1PNPDE20101204_045457_000000413097_00105_45809_3497.N1	04-DEC-2010 04:54:57	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	45809	No
64	GOM_TRA_1PNPDE20101204_050342_000000613097_00105_45809_3498.N1	04-DEC-2010 05:03:42	Bright	61.000	138	47Eps Vir	2.8280	4700.0	122	45809	No
65	GOM_TRA_1PNPDE20101204_050811_000000503097_00105_45809_3499.N1	04-DEC-2010 05:08:11	Bright	49.500	121	29Gam Vir	2.7400	7200.0	99	45809	No

125	GOM_TRA_1PNPDE20101204_233820_000000513097_00116_45820_3729.N1	04-DEC-2010 23:38:20	Dark	51.000	171	2Eps Crv	3.0010	4250.0	102	45820	No
126	GOM_TRA_1PNPDE20101204_234743_000000443097_00117_45821_3730.N1	04-DEC-2010 23:47:43	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	45821	No
127	GOM_TRA_1PNPDE20101204_235621_000000533097_00117_45821_3731.N1	04-DEC-2010 23:56:21	Dark	53.000	34	Gam2Vel	1.7930	23000.	106	45821	No
128	GOM_TRA_1PNPDE20101204_235923_000000513097_00117_45821_3732.N1	04-DEC-2010 23:59:23	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	45821	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).

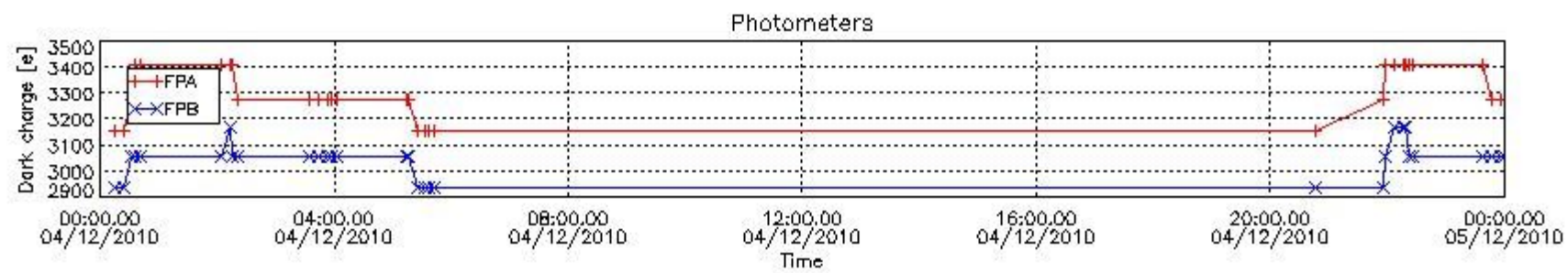
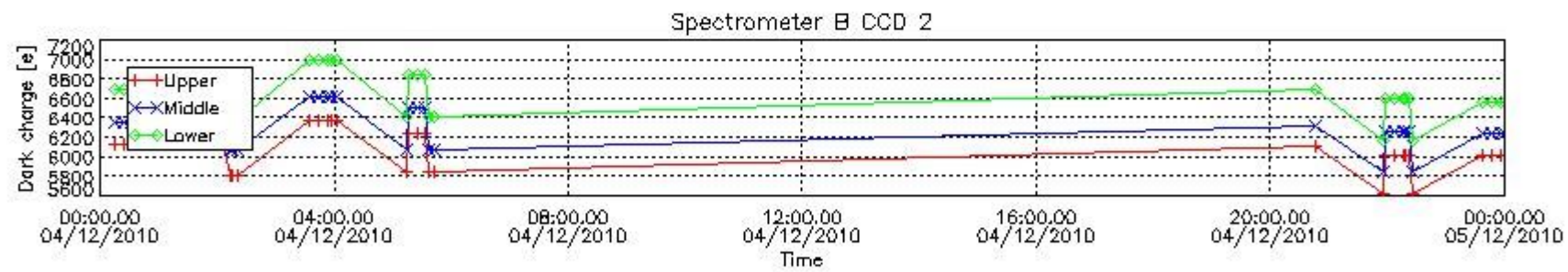
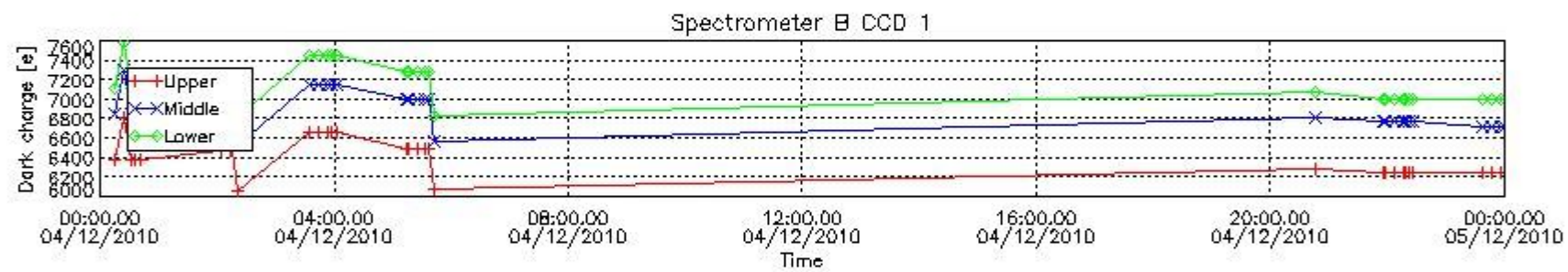
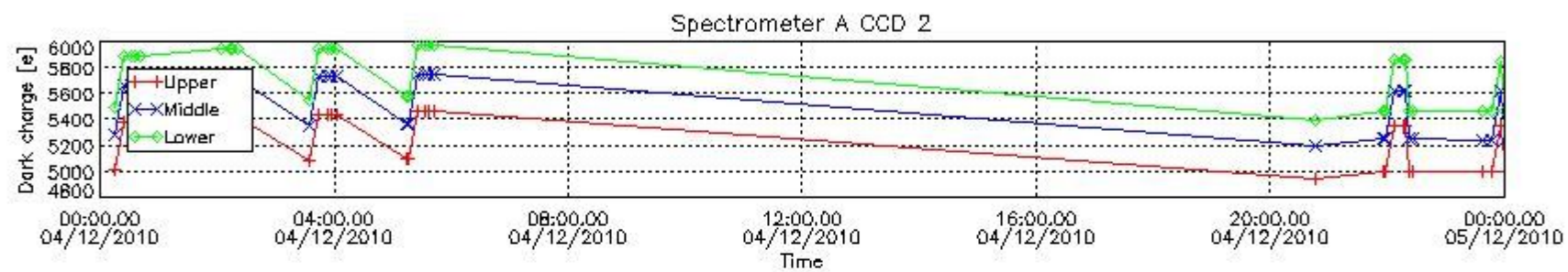
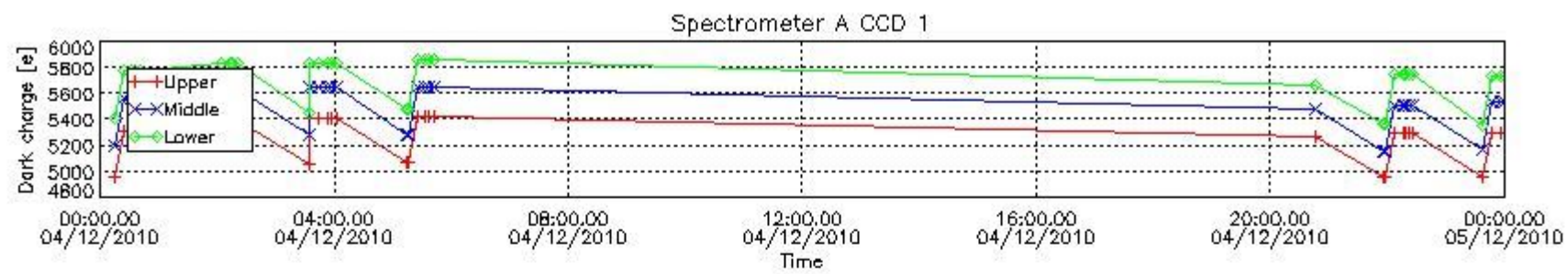
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20101204_204101_000000603097_00115_45819_3629.N1	DC map with no T dep.
GOM_TRA_1PNPDE20101204_204512_000000453097_00115_45819_3630.N1	DC map used
GOM_TRA_1PNPDE20101204_205040_000000523097_00115_45819_3631.N1	DC map used
GOM_TRA_1PNPDE20101204_205405_000000633097_00115_45819_3632.N1	DC map used
GOM_TRA_1PNPDE20101204_205925_000000263097_00115_45819_3633.N1	DC map used
GOM_TRA_1PNPDE20101204_210150_000000603097_00115_45819_3634.N1	DC map used

GOM_TRA_1PNPDE20101204_210337_000000373097_00115_45819_3635.N1	DC map used
GOM_TRA_1PNPDE20101204_210555_000000393097_00115_45819_3636.N1	DC map used
GOM_TRA_1PNPDE20101204_210728_000000443097_00115_45819_3637.N1	DC map used
GOM_TRA_1PNPDE20101204_211022_000000363097_00115_45819_3638.N1	DC map used
GOM_TRA_1PNPDE20101204_211147_000000493097_00115_45819_3639.N1	DC map used
GOM_TRA_1PNPDE20101204_212810_000000463097_00115_45819_3640.N1	DC map used
GOM_TRA_1PNPDE20101204_212943_000000473097_00115_45819_3641.N1	DC map used
GOM_TRA_1PNPDE20101204_213137_000000413097_00115_45819_3642.N1	DC map used
GOM_TRA_1PNPDE20101204_213349_000000363097_00115_45819_3643.N1	DC map used
GOM_TRA_1PNPDE20101204_213718_000000393097_00115_45819_3644.N1	DC map used
GOM_TRA_1PNPDE20101204_214253_000000493097_00115_45819_3645.N1	DC map used
GOM_TRA_1PNPDE20101204_214607_000000443097_00115_45819_3646.N1	DC map used
GOM_TRA_1PNPDE20101204_215038_000000493097_00115_45819_3647.N1	DC map used

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



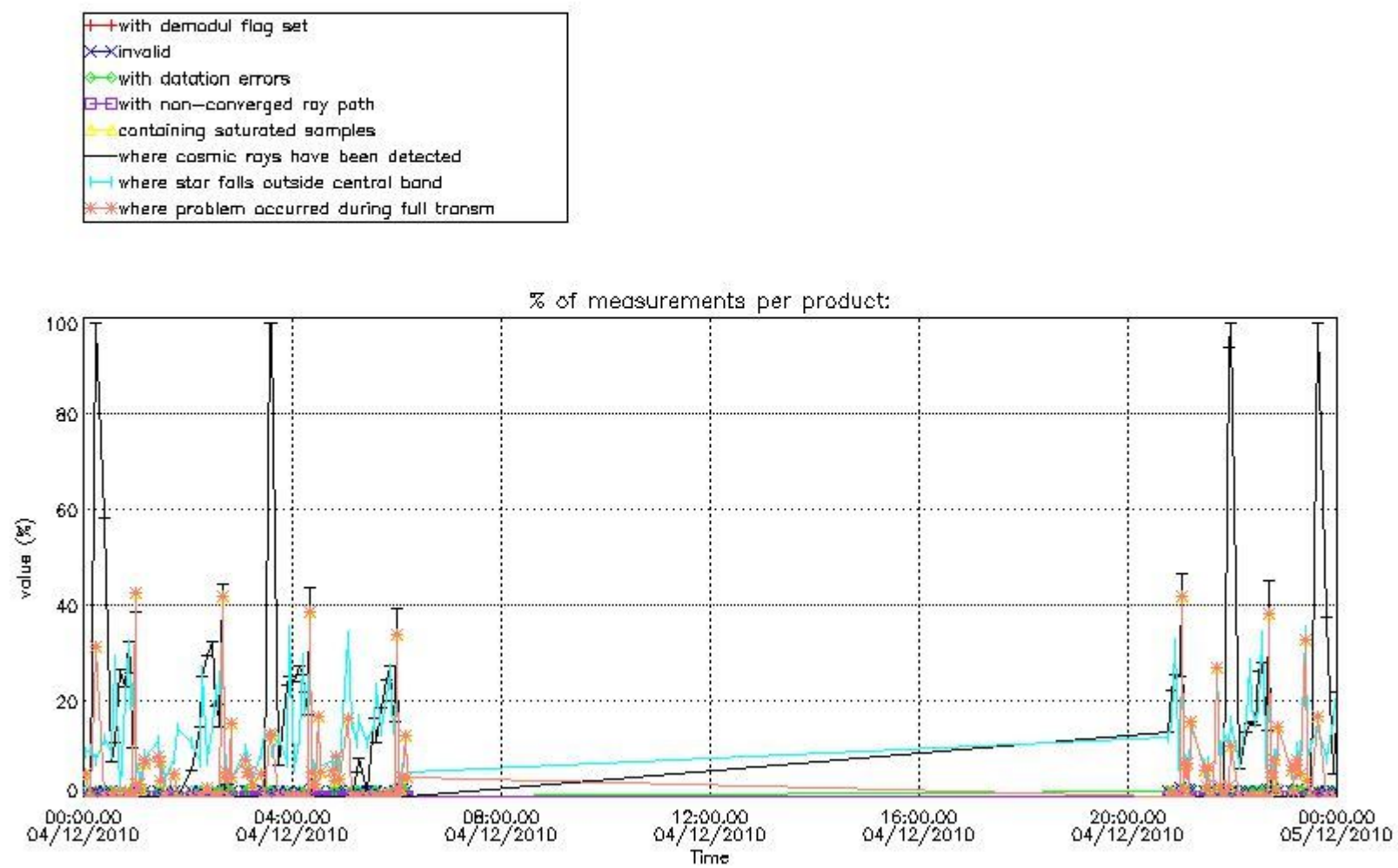
5. Demodulation flag and quality information monitoring

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.

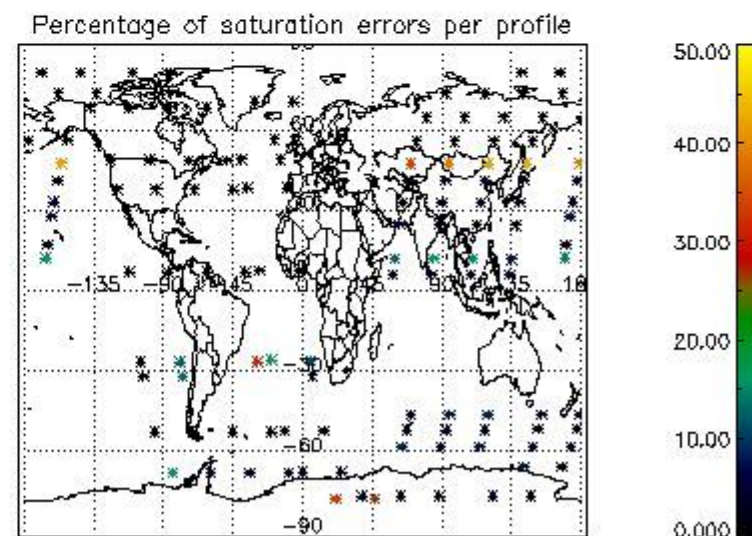
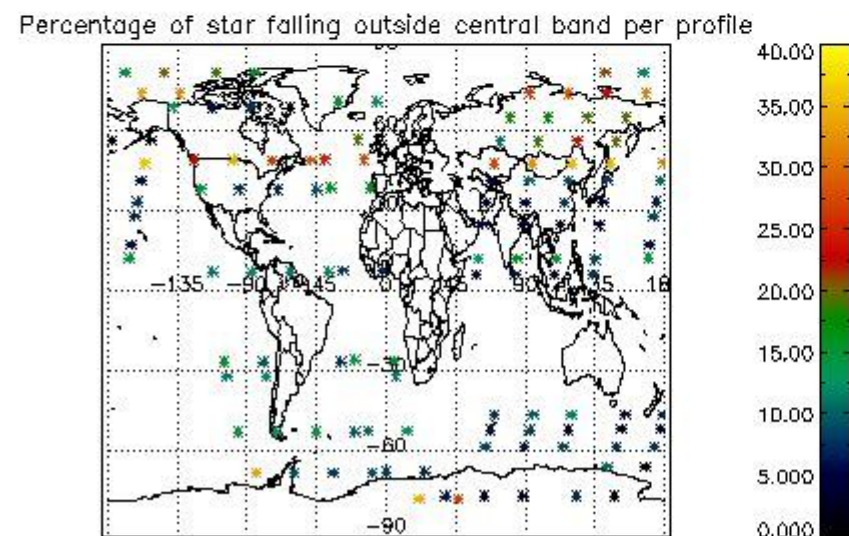
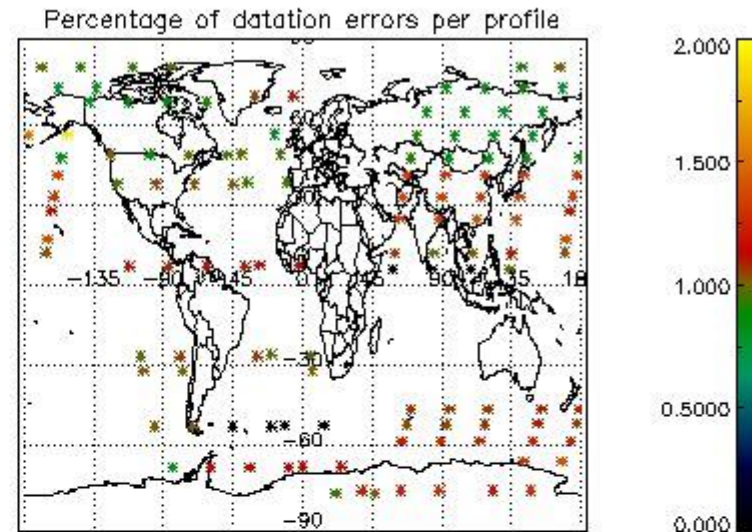
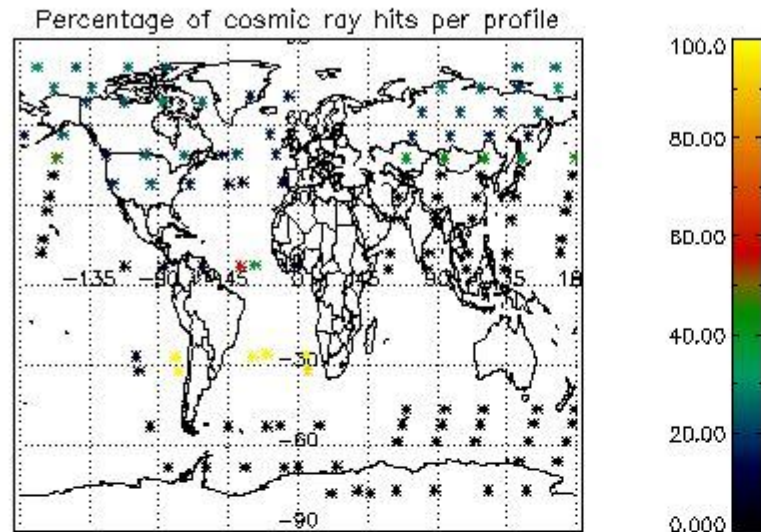
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	43.3071 %
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)



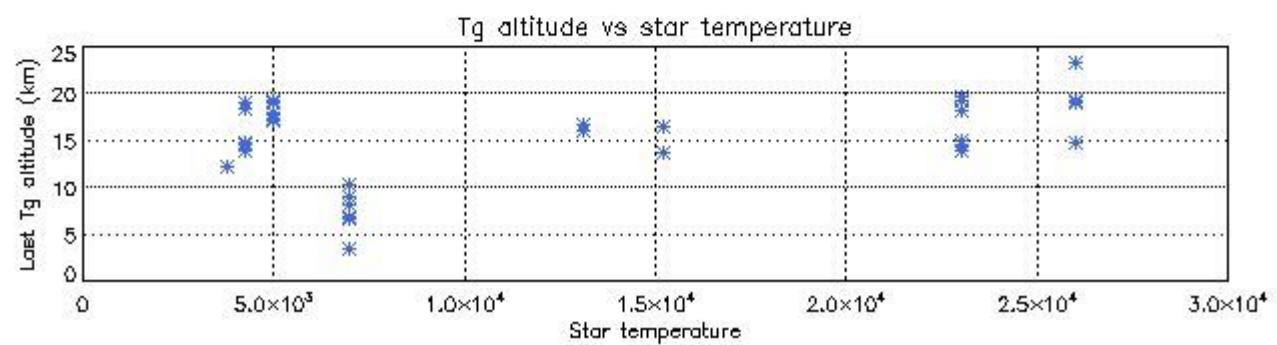
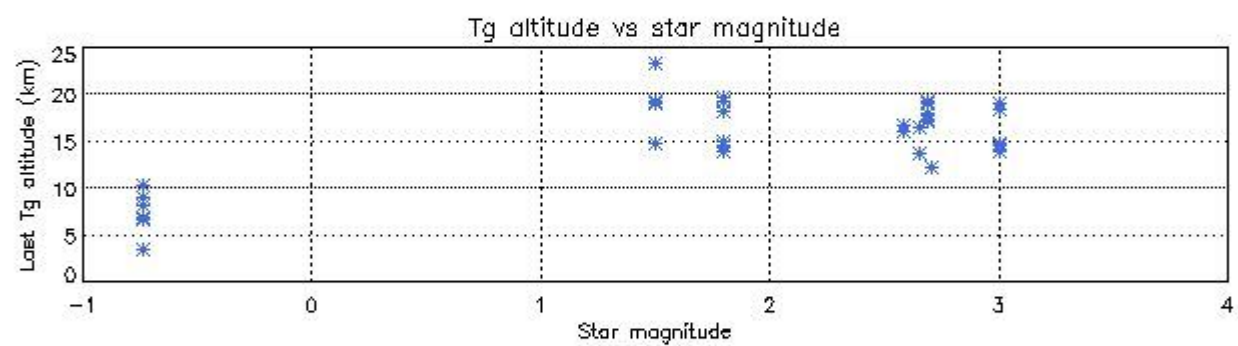
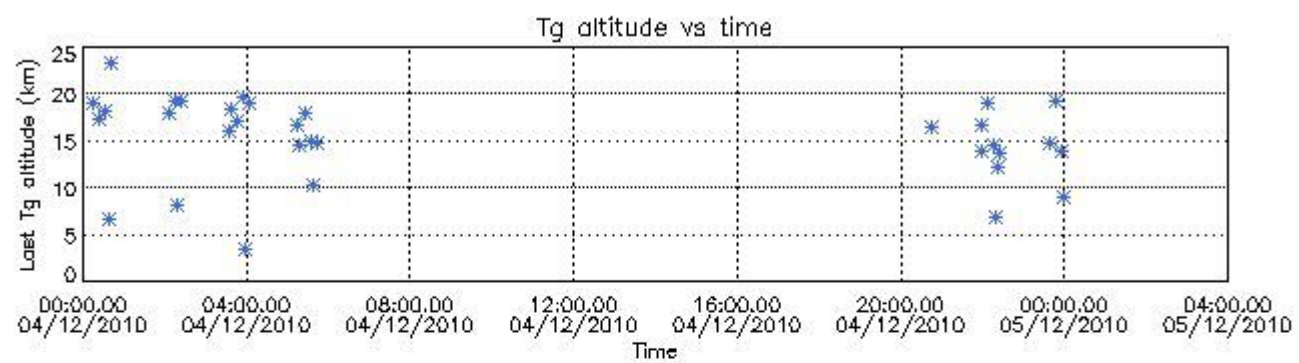
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.205	18.009	NaN
St. deviation:	4.4677	5.4798	NaN
Maximum:	23.189	26.274	NaN
Minimum:	3.3827	4.1385	NaN
Number of data:	33.000	72.000	NaN

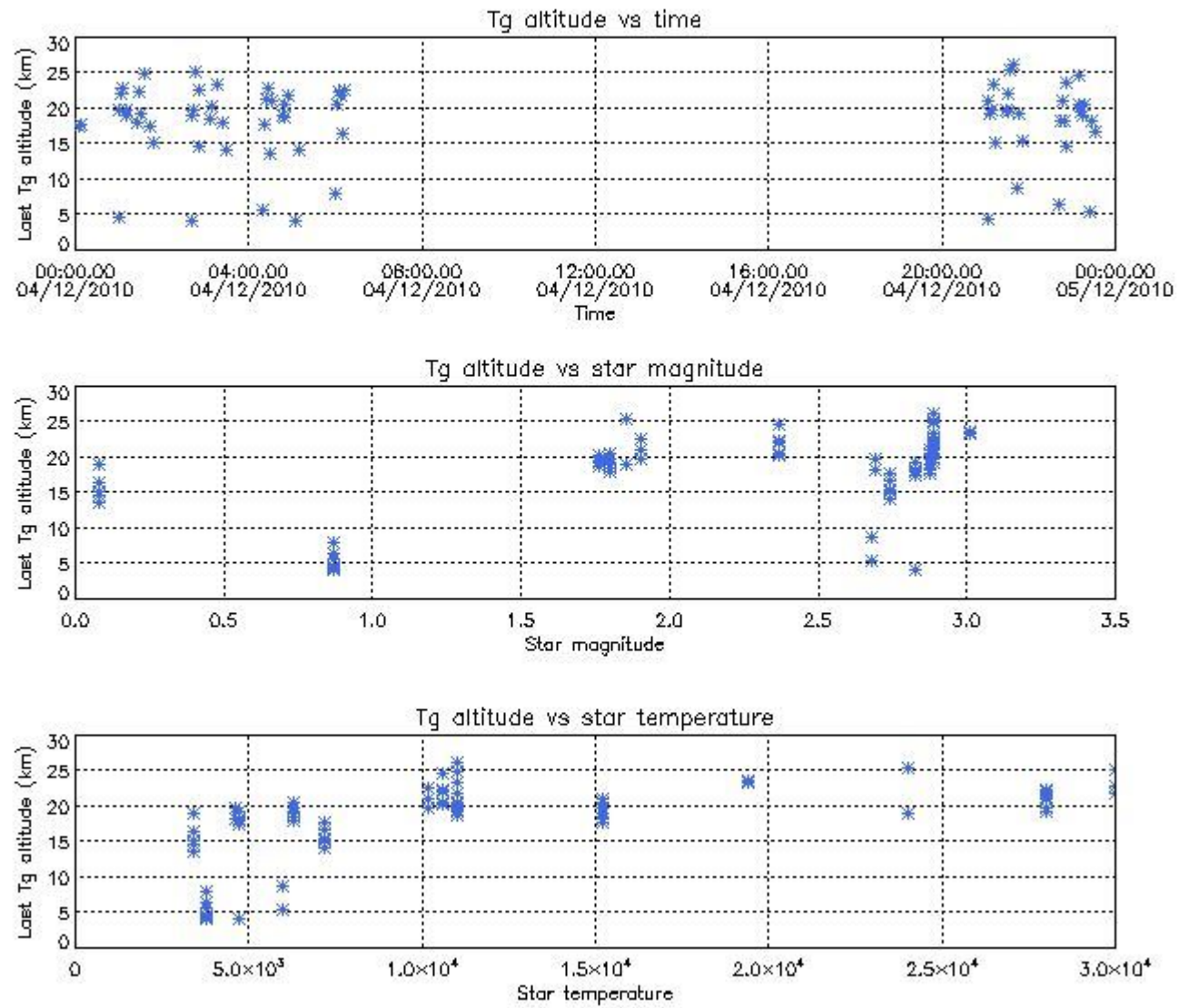
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

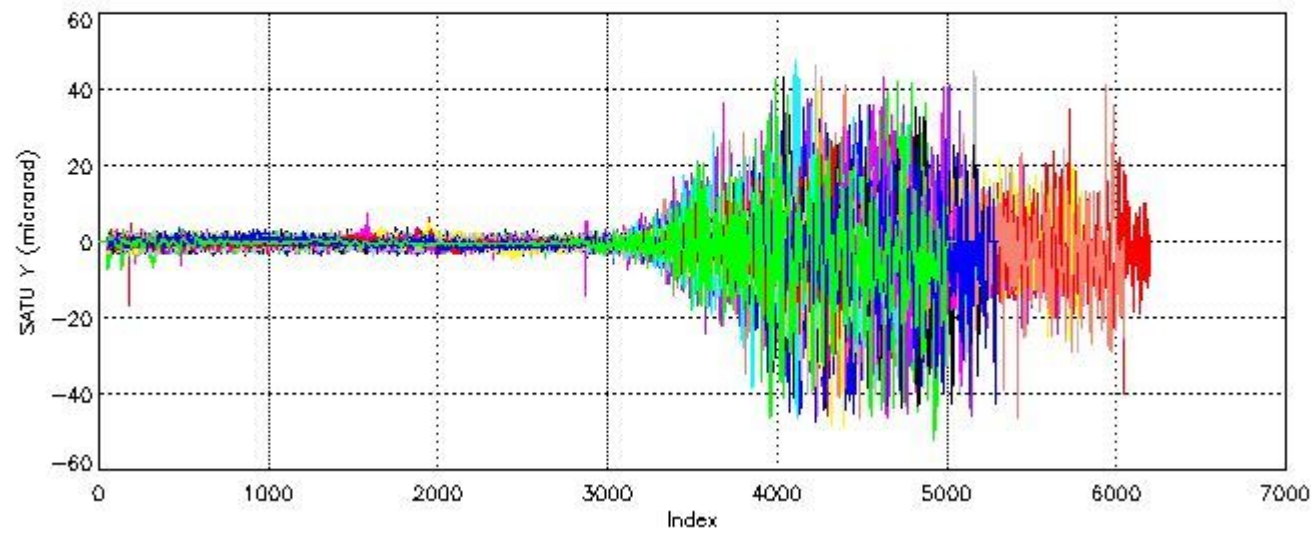
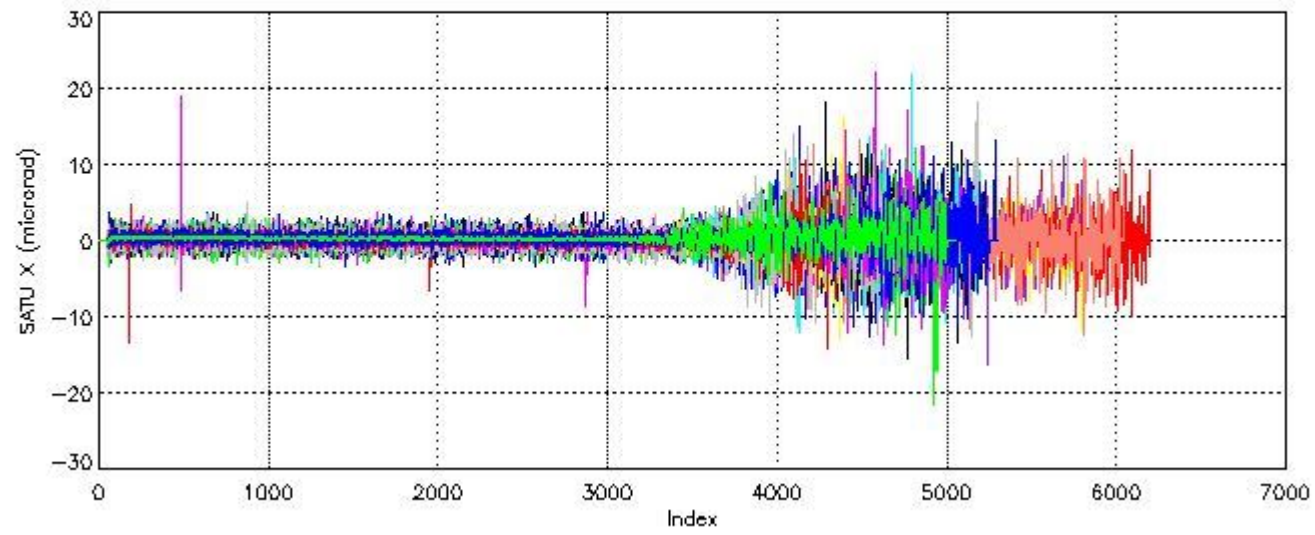


7. Star Acquisition and Tracking Unit (SATU)

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:	0.25776	-0.29742	0.18024	-0.28890
St. deviation:	0.53041	0.78918	0.87770	1.0692
Maximum:	18.900	4.7000	6.4000	8.0000
Minimum:	-13.400	-16.800	-5.9000	-7.5000

Number of data:	37450.	37450.	71450.	71450.
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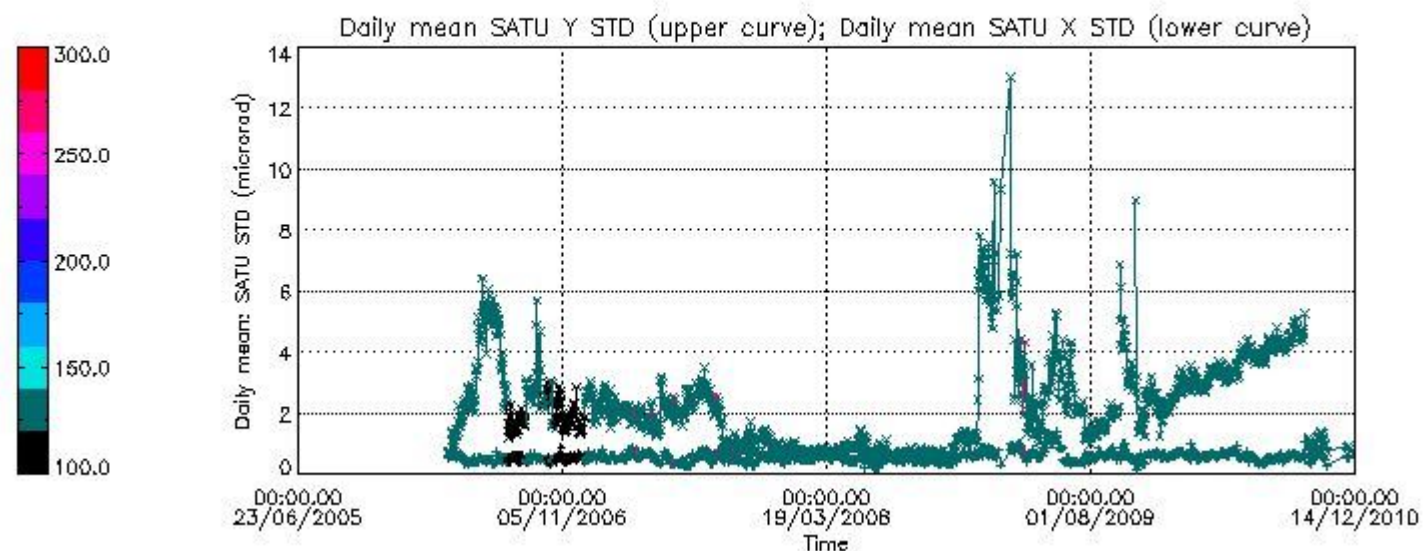
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

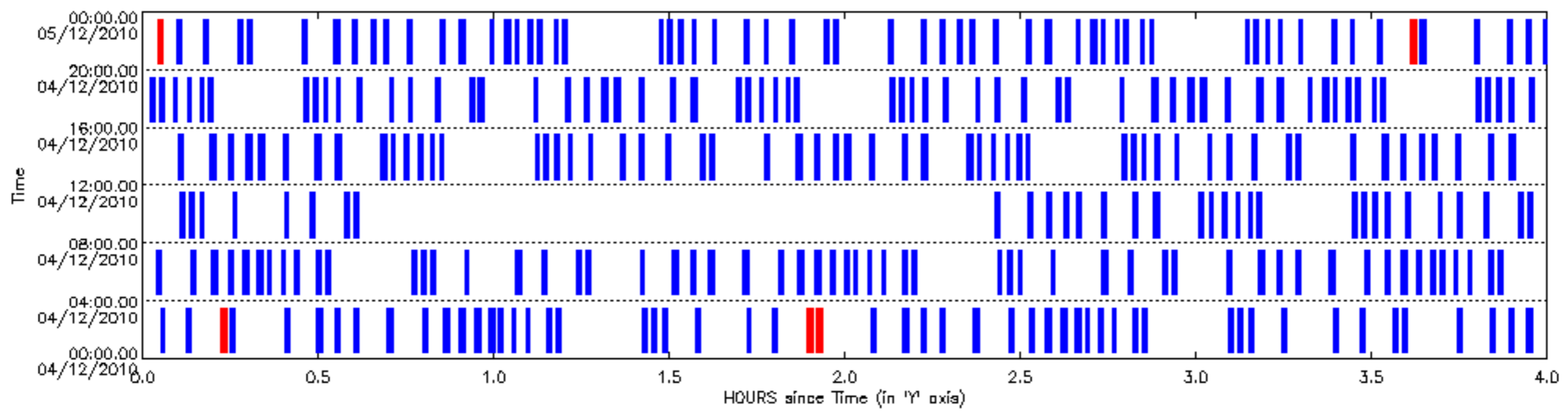
Lower curve: STD of SATU X axis

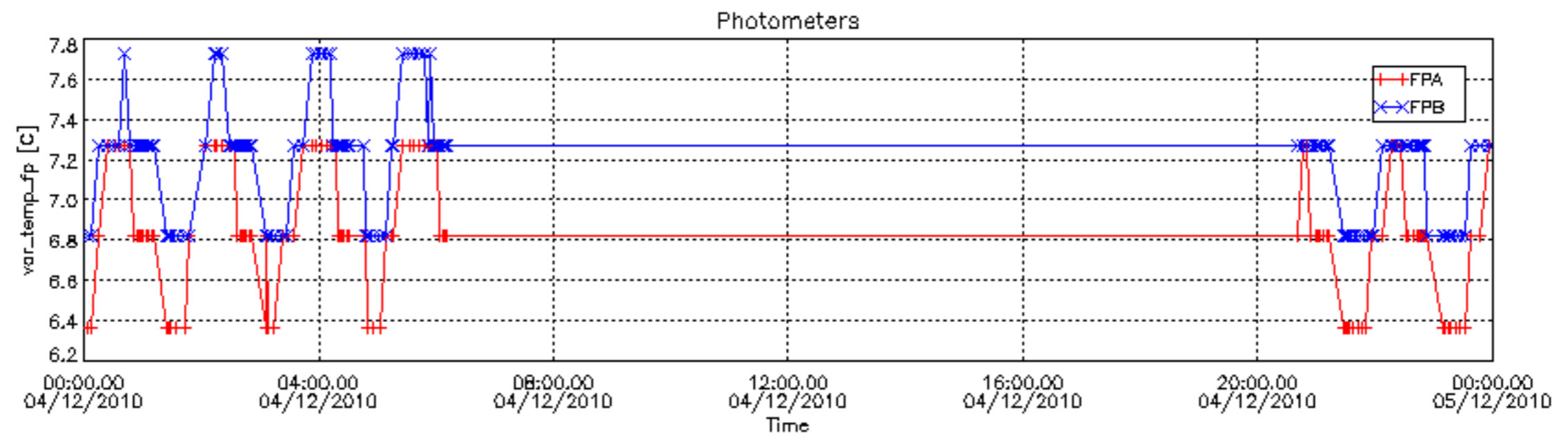
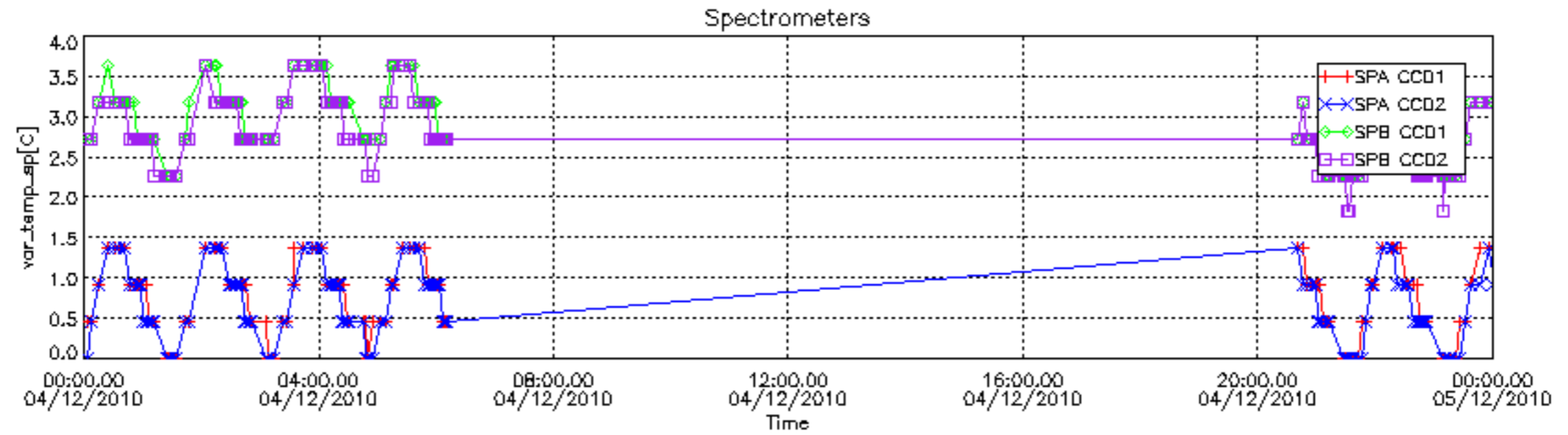


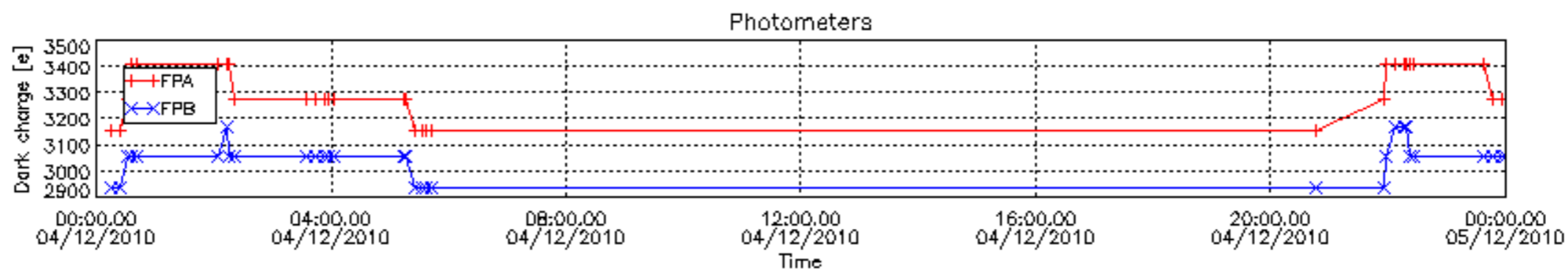
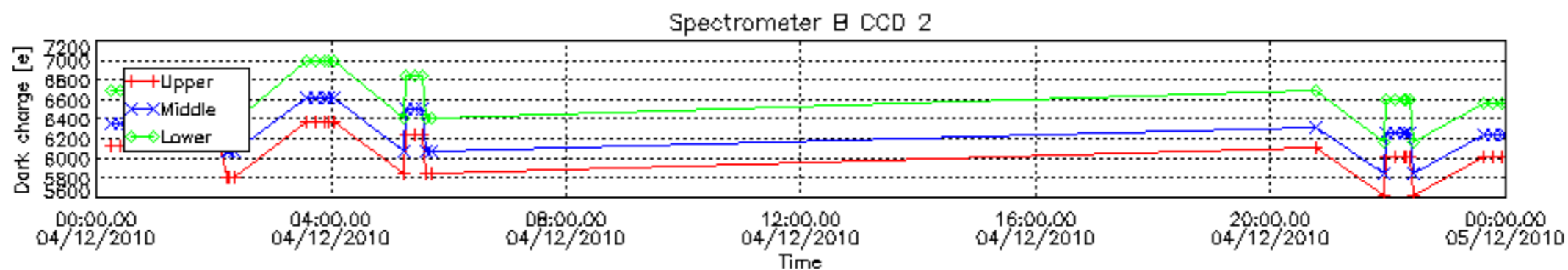
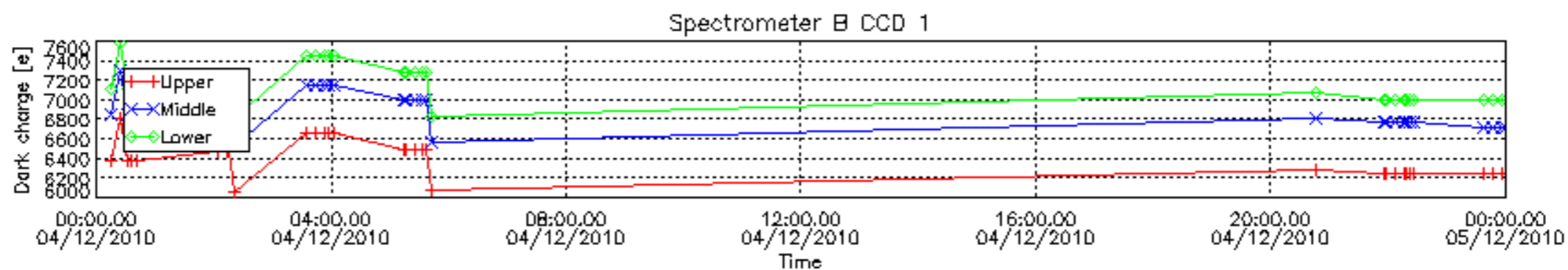
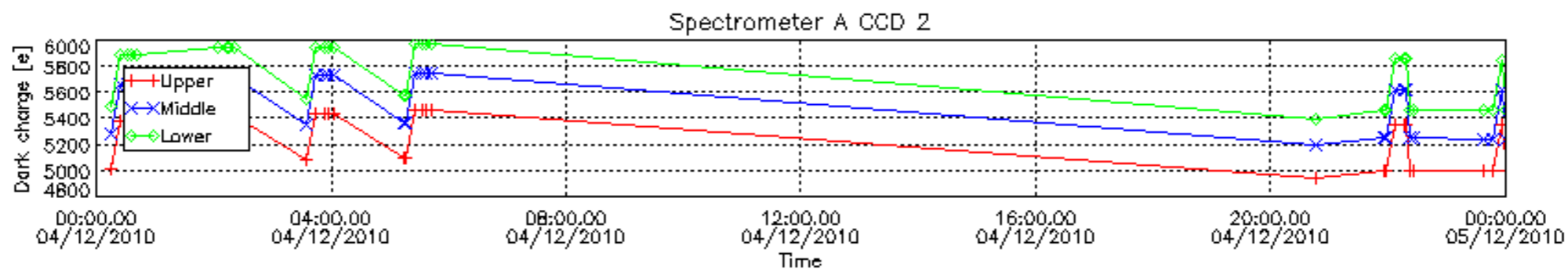
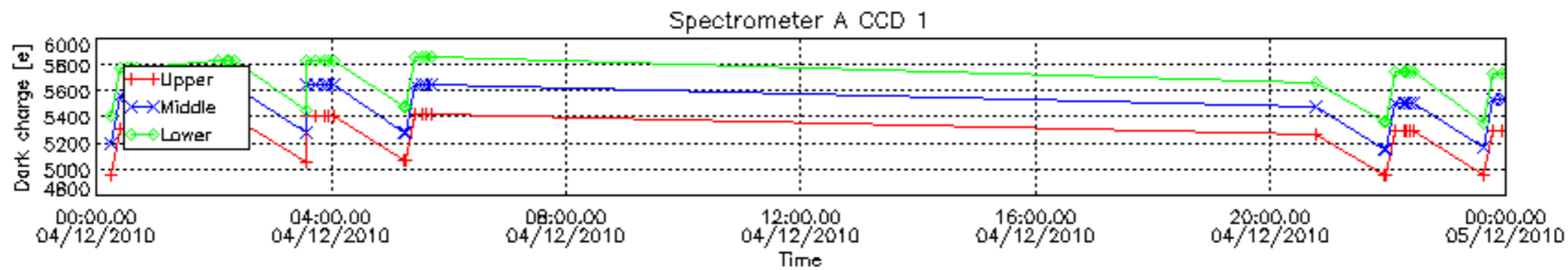
8. Auxiliary Data Files used for the production reported in section 2.4

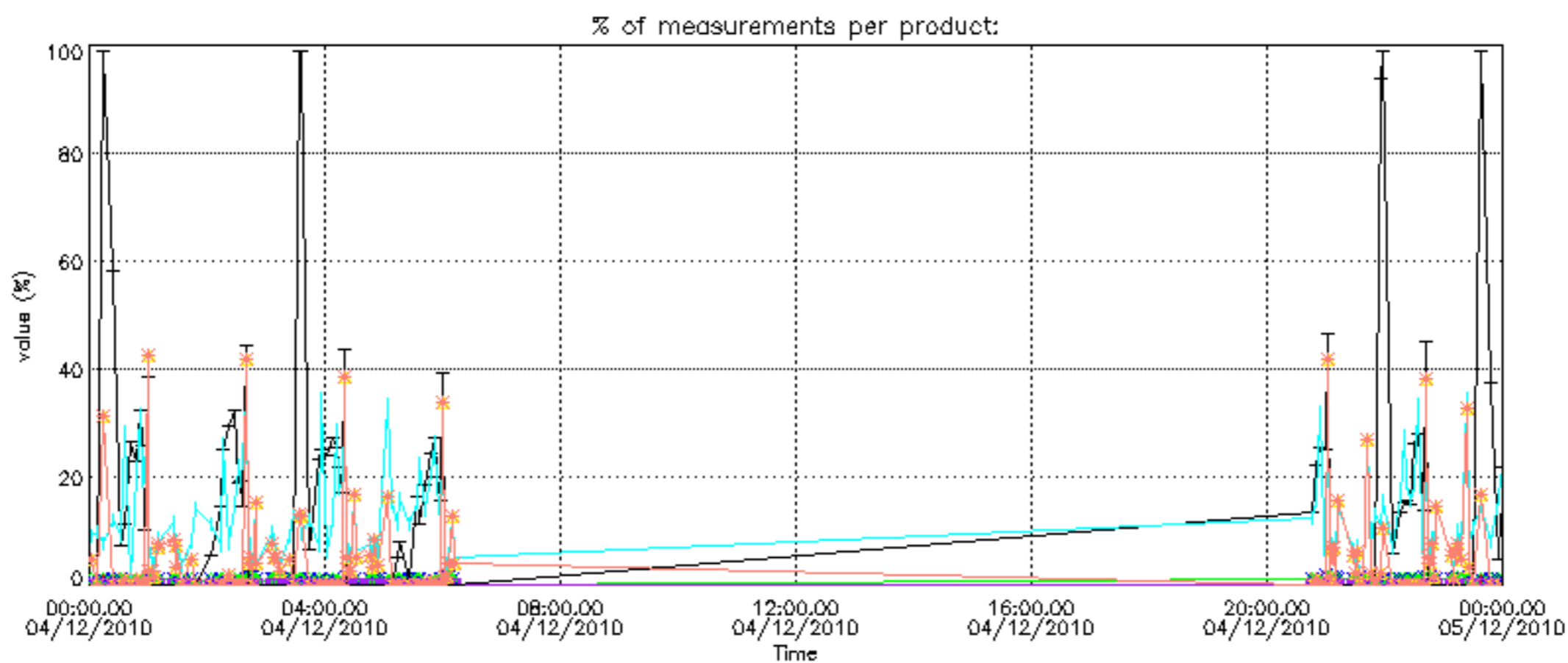
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-DEC-2010 00:02:59
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101201_093519_20101129_000000_20500101_000000	1	04-DEC-2010 00:02:59
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	04-DEC-2010 00:02:59
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-DEC-2010 00:02:59
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	04-DEC-2010 00:02:59
ECMWF_FILE	AUX_ECF_AXNECM20101203_054116_20101203_210000_20101204_090000	1	04-DEC-2010 00:02:59
ECMWF_FILE	AUX_ECF_AXNECM20101203_174115_20101204_030000_20101204_150000	38	04-DEC-2010 03:05:39
ECMWF_FILE	AUX_ECF_AXNECM20101204_062116_20101204_150000_20101205_030000	82	04-DEC-2010 20:41:01
ECMWF_FILE	AUX_ECF_AXNECM20101204_062116_20101204_210000_20101205_090000	101	04-DEC-2010 21:56:29
OPTIONAL_ECMWF_FILE	MISSING	1	04-DEC-2010 00:02:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101203_222838_000057383097_00101_45805_2051.N1	1	04-DEC-2010 00:02:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101204_000935_000054193097_00102_45806_2052.N1	3	04-DEC-2010 00:14:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101204_014513_000041443097_00103_45807_2053.N1	24	04-DEC-2010 02:04:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101204_025936_000057383097_00104_45808_2054.N1	38	04-DEC-2010 03:05:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101204_044033_000057383097_00105_45809_2055.N1	60	04-DEC-2010 04:45:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101204_203656_000041443097_00115_45819_2056.N1	82	04-DEC-2010 20:41:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101204_215119_000057383097_00115_45819_2057.N1	101	04-DEC-2010 21:56:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101204_233216_000054193097_00116_45820_2058.N1	125	04-DEC-2010 23:38:20

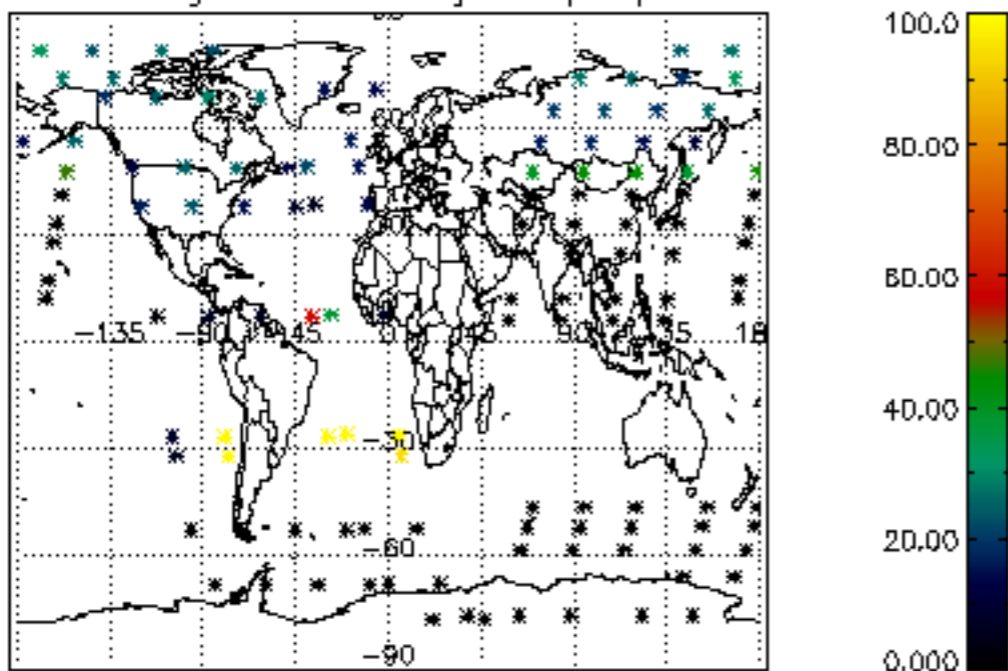




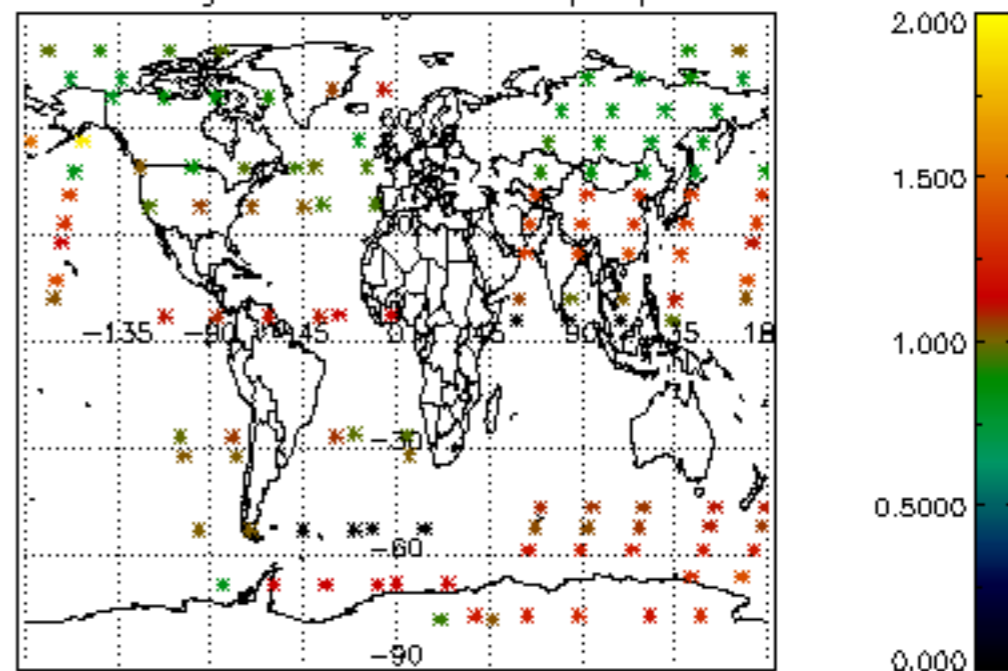




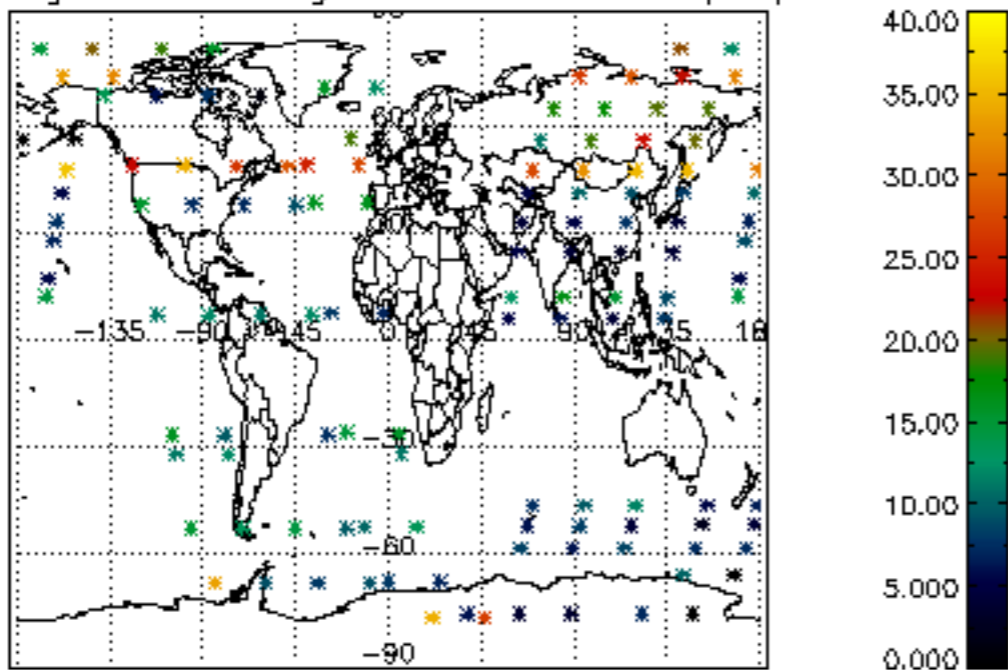
Percentage of cosmic ray hits per profile



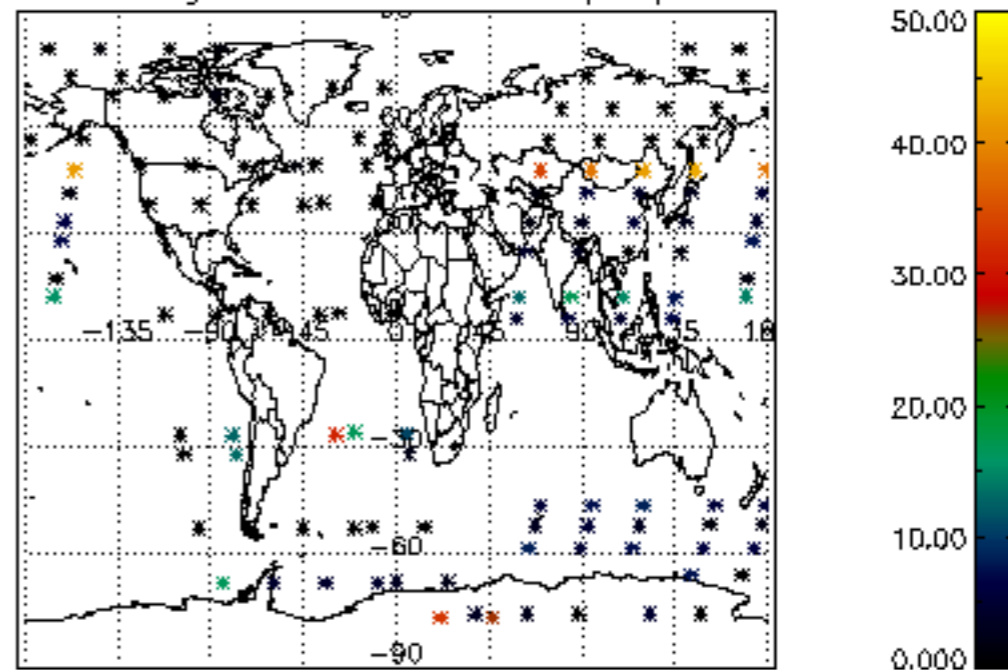
Percentage of datation errors per profile



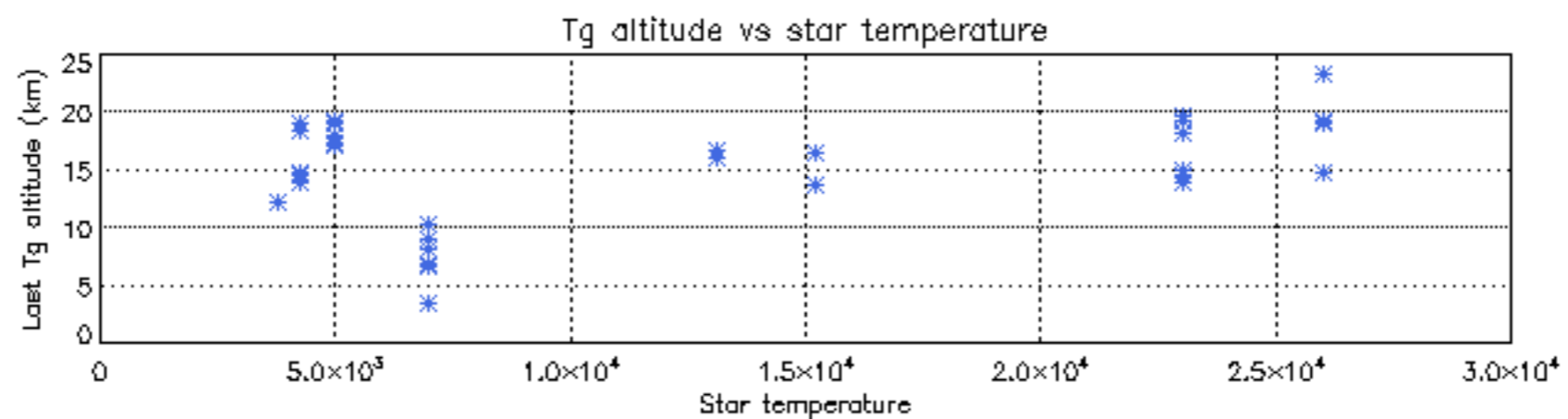
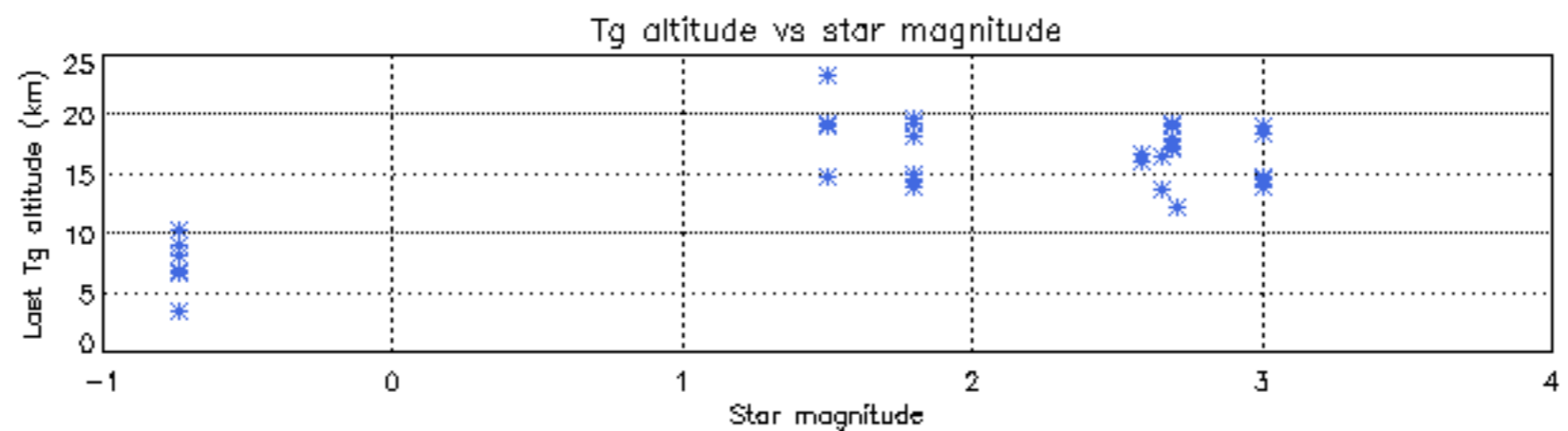
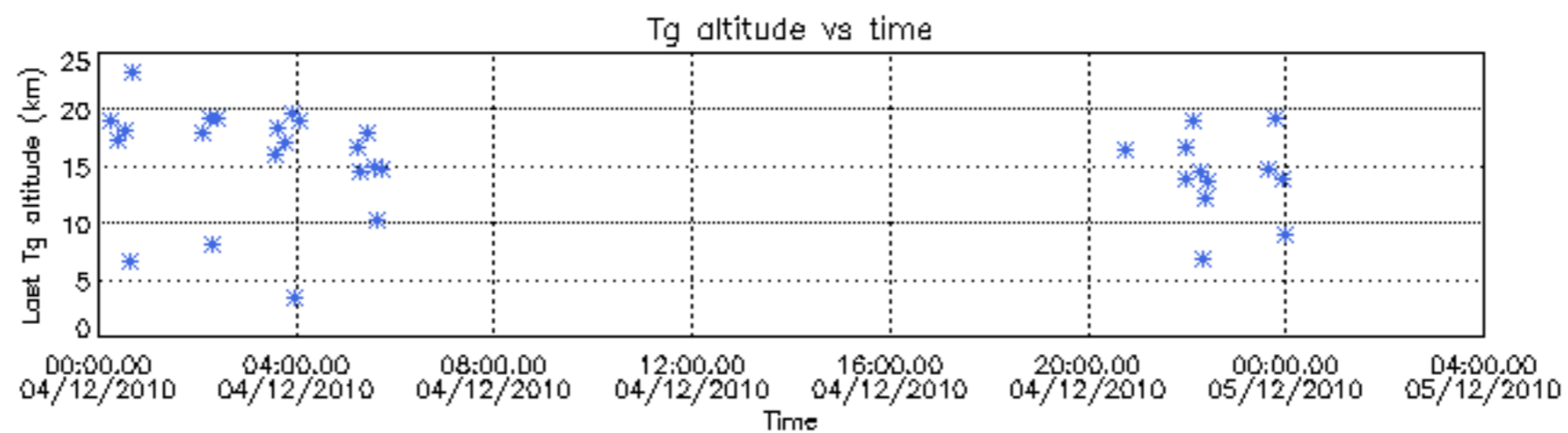
Percentage of star falling outside central band per profile



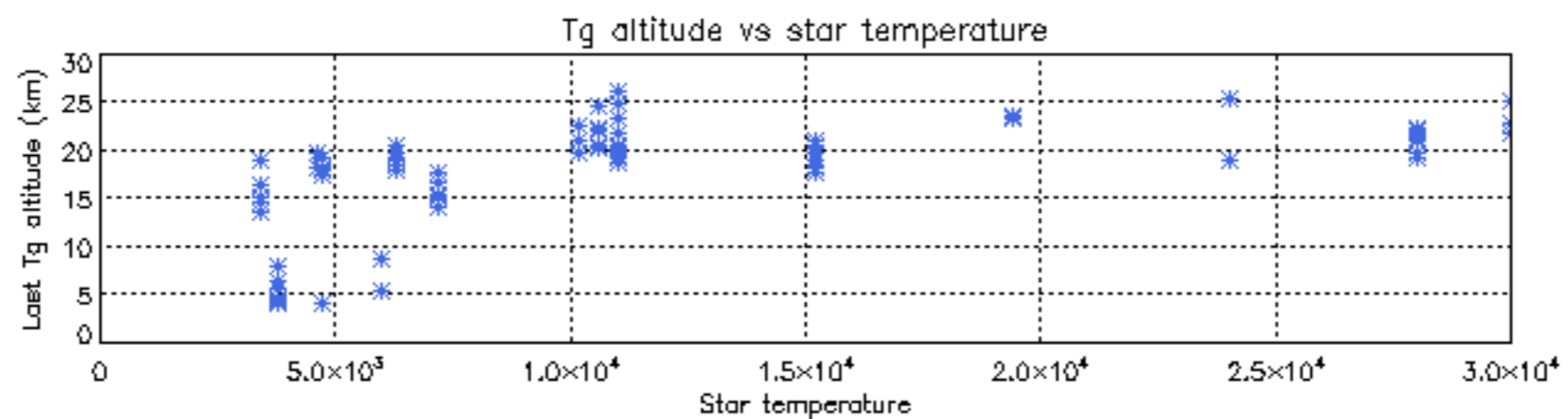
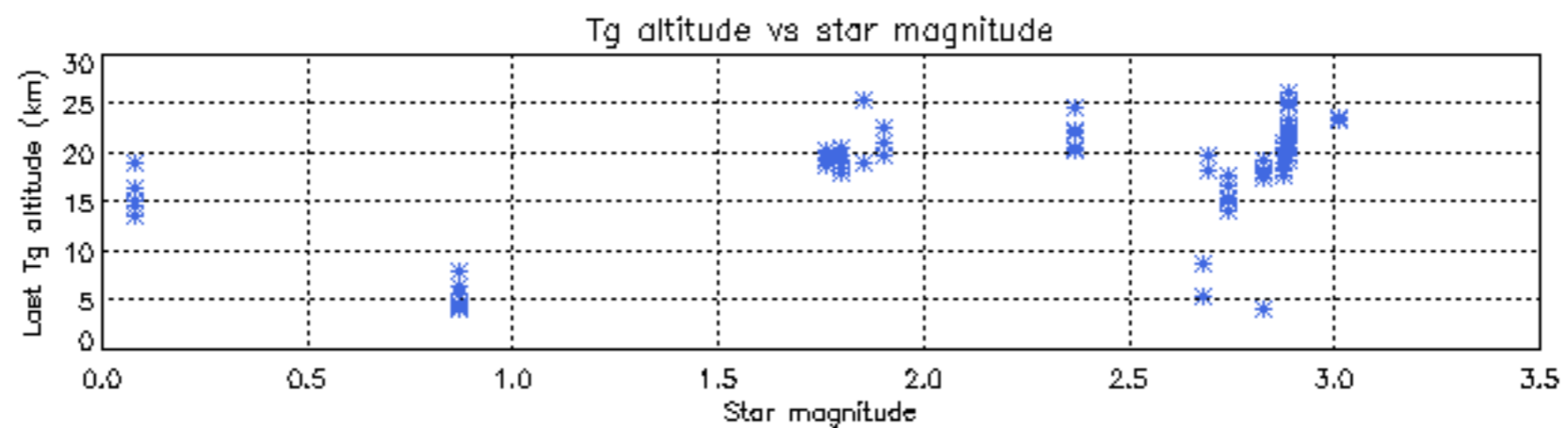
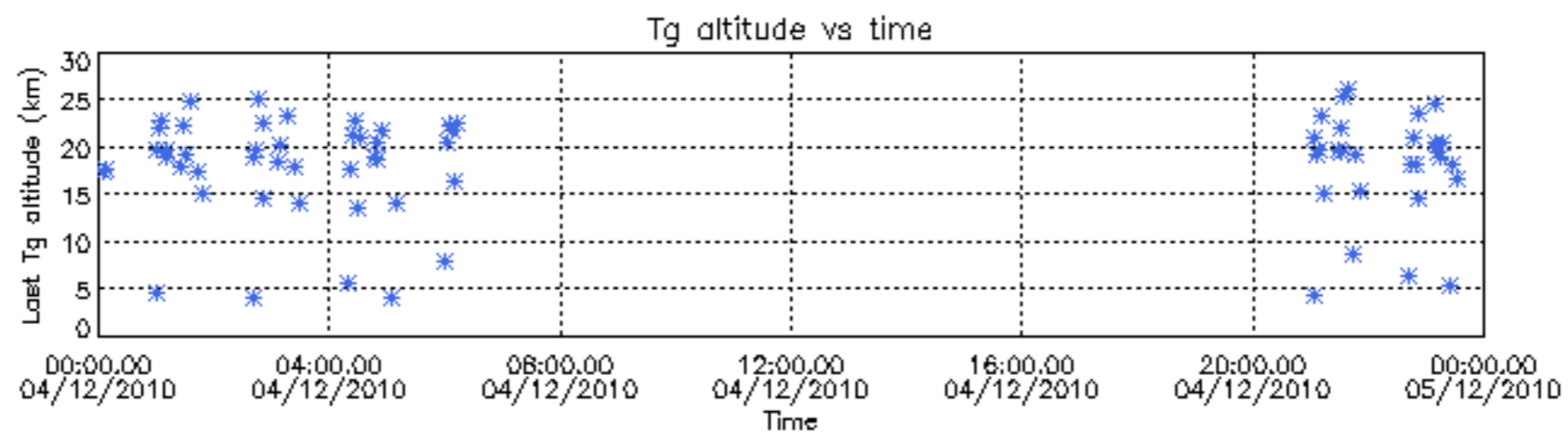
Percentage of saturation errors per profile

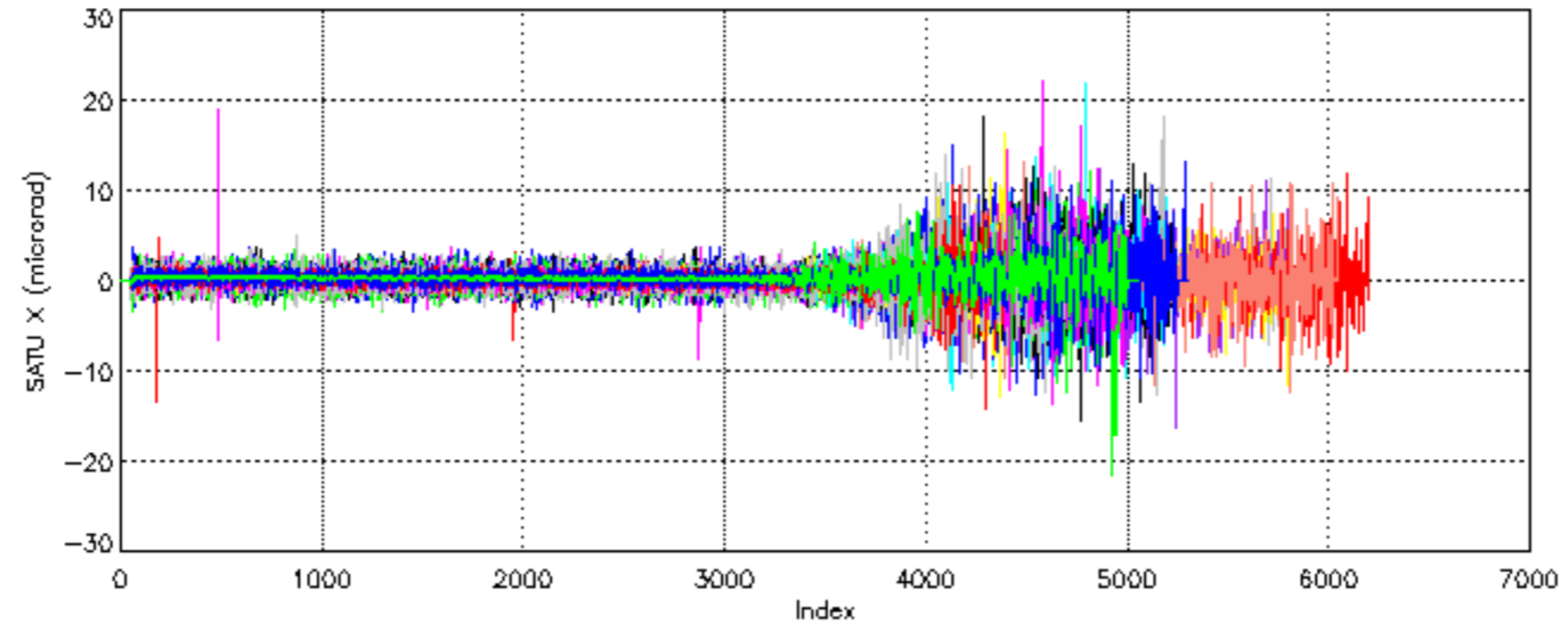


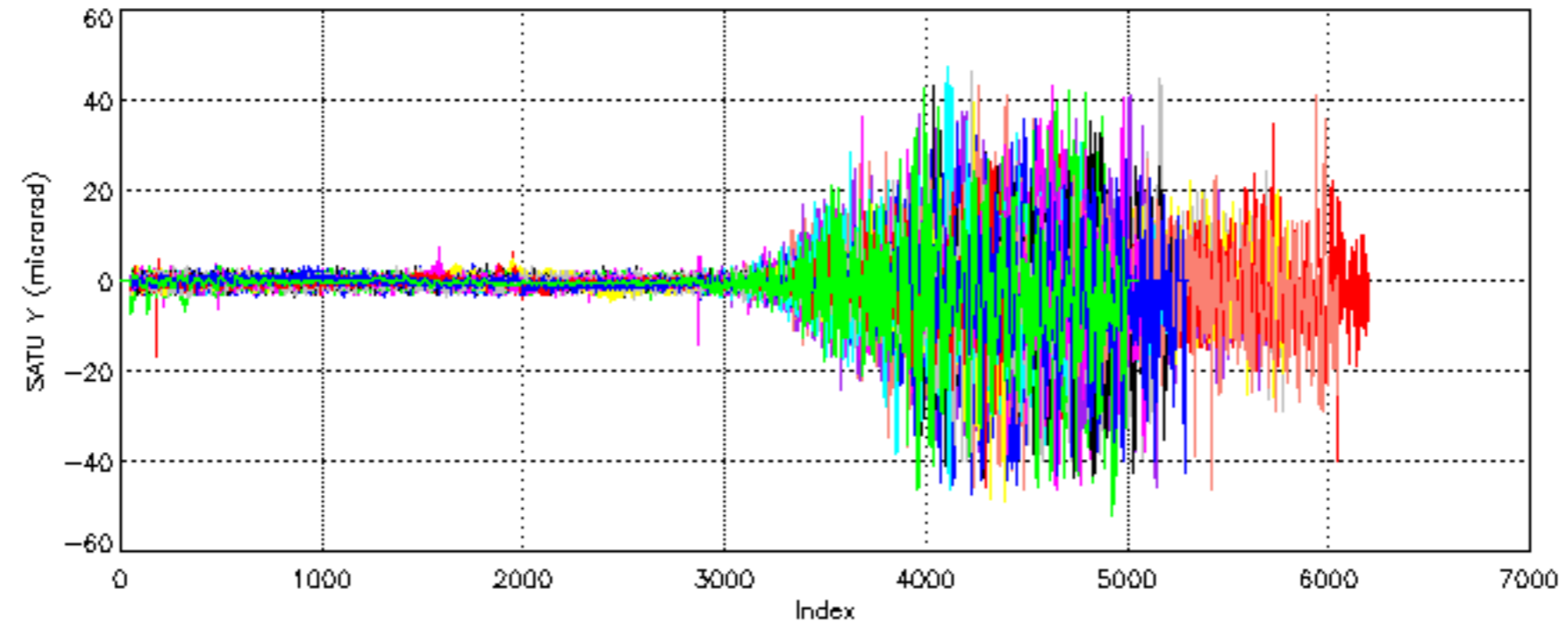
Tangent altitude at which the star is lost

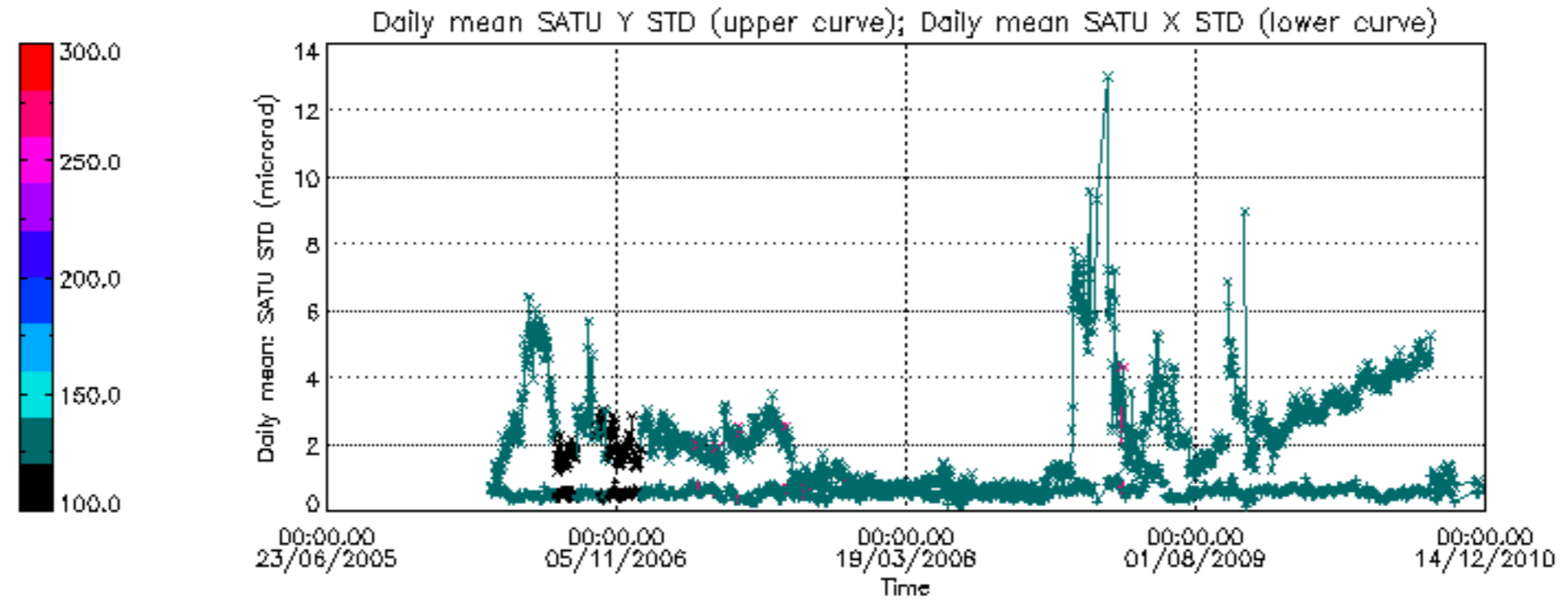


Tangent altitude at which the star is lost









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1; -581.2; 01-DEC-2010 00:22:35; Dark ; 49.0; 100; 4Gam Crv ; 2.58; 13100;occ; 98; 0;45763
 2; -485.7; 01-DEC-2010 00:24:11; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;45763
 3; 80.8; 01-DEC-2010 00:33:37; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;45764
 4; 404.8; 01-DEC-2010 00:39:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45764
 5; 595.6; 01-DEC-2010 00:42:12; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;45764
 6; 797.9; 01-DEC-2010 00:45:35; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;45764
 7; 907.6; 01-DEC-2010 00:47:24; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;45764
 8; 1181.6; 01-DEC-2010 00:51:58; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;45764
 9; 1523.2; 01-DEC-2010 00:57:40; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;45764
 10; 1739.4; 01-DEC-2010 01:01:16; Dark ; 68.5; 7; 19Bet Ori ; 0.10; 14000;occ; 137; 0;45764
 11; 2218.1; 01-DEC-2010 01:09:15; Bright; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;45764
 12; 2314.7; 01-DEC-2010 01:10:51; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;45764
 13; 2456.2; 01-DEC-2010 01:13:13; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;45764
 14; 2601.4; 01-DEC-2010 01:15:38; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;45764
 15; 2722.5; 01-DEC-2010 01:17:39; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45764
 16; 2831.7; 01-DEC-2010 01:19:28; Bright; 53.0; 6; 13Alp Aur ; 0.08; 3400;occ; 106; 0;45764
 17; 2940.4; 01-DEC-2010 01:21:17; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;45764
 18; 3801.3; 01-DEC-2010 01:35:38; Bright; 45.0; 36; 50Alp UMa ; 1.80; 6300;occ; 90; 0;45764
 19; 3896.8; 01-DEC-2010 01:37:13; Bright; 68.0; 82; 48Bet UMa ; 2.37; 10600;occ; 136; 0;45764
 20; 3994.3; 01-DEC-2010 01:38:51; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;45764
 21; 4165.0; 01-DEC-2010 01:41:42; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;45764
 22; 4326.2; 01-DEC-2010 01:44:23; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;45764
 23; 4896.6; 01-DEC-2010 01:53:53; Bright; 56.5; 62; 94Bet Leo ; 2.14; 9700;occ; 113; 0;45764
 24; 5095.3; 01-DEC-2010 01:57:12; Bright; 23.5; 121; 29Gam Vir ; 2.74; 7200;occ; 47; 0;45764

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1; -918.7; 01-DEC-2010 01:57:12; Bright; 62.0; 121; 29Gam Vir ; 2.74; 7200;occ; 124; 0;45764
 2; 81.8; 01-DEC-2010 02:13:52; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;45765
 3; 405.6; 01-DEC-2010 02:19:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45765
 4; 596.6; 01-DEC-2010 02:22:27; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45765
 5; 798.6; 01-DEC-2010 02:25:49; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;45765
 6; 908.6; 01-DEC-2010 02:27:39; Dark ; 64.0; 117; Pi Pup ; 2.71; 3800;occ; 128; 0;45765
 7; 1182.1; 01-DEC-2010 02:32:13; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;45765
 8; 1523.4; 01-DEC-2010 02:37:54; Dark ; 55.0; 101; 11Alp Lep ; 2.58; 7000;occ; 110; 0;45765
 9; 1739.4; 01-DEC-2010 02:41:30; Dark ; 59.0; 7; 19Bet Ori ; 0.10; 14000;occ; 118; 0;45765
 10; 2217.8; 01-DEC-2010 02:49:28; Bright; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;45765
 11; 2314.7; 01-DEC-2010 02:51:05; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;45765
 12; 2456.0; 01-DEC-2010 02:53:27; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;45765
 13; 2601.2; 01-DEC-2010 02:55:52; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;45765
 14; 2722.2; 01-DEC-2010 02:57:53; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45765
 15; 2831.1; 01-DEC-2010 02:59:42; Bright; 53.5; 6; 13Alp Aur ; 0.08; 3400;occ; 107; 0;45765
 16; 2939.5; 01-DEC-2010 03:01:30; Bright; 41.5; 42; 34Bet Aur ; 1.90; 10200;occ; 83; 0;45765

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1; -2213.0; 01-DEC-2010 03:15:52; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0;45765
 2; -2117.5; 01-DEC-2010 03:17:27; Bright; 48.0; 82; 48Bet UMa ; 2.37; 10600;occ; 96; 0;45765
 3; -2019.8; 01-DEC-2010 03:19:05; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;45765
 4; -1849.2; 01-DEC-2010 03:21:55; Bright; 67.0; 174; 52Psi UMa ; 3.00; 4400;occ; 134; 0;45765
 5; -1687.8; 01-DEC-2010 03:24:37; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;45765
 6; -1116.8; 01-DEC-2010 03:34:08; Bright; 58.0; 62; 94Bet Leo ; 2.14; 9700;occ; 116; 0;45765
 7; -918.1; 01-DEC-2010 03:37:27; Bright; 45.0; 121; 29Gam Vir ; 2.74; 7200;occ; 90; 0;45765
 8; -579.5; 01-DEC-2010 03:43:05; Dark ; 44.0; 100; 4Gam Crv ; 2.58; 13100;occ; 88; 0;45765
 9; -484.1; 01-DEC-2010 03:44:41; Dark ; 47.0; 171; 2Eps Crv ; 3.00; 4250;occ; 94; 0;45765
 10; 82.7; 01-DEC-2010 03:54:07; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;45766
 11; 406.4; 01-DEC-2010 03:59:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45766
 12; 597.5; 01-DEC-2010 04:02:42; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45766
 13; 799.1; 01-DEC-2010 04:06:04; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;45766
 14; 909.5; 01-DEC-2010 04:07:54; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;45766
 15; 1182.7; 01-DEC-2010 04:12:27; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;45766
 16; 1523.9; 01-DEC-2010 04:18:09; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;45766
 17; 1739.4; 01-DEC-2010 04:21:44; Dark ; 60.5; 7; 19Bet Ori ; 0.10; 14000;occ; 121; 0;45766
 18; 2217.7; 01-DEC-2010 04:29:42; Bright; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;45766
 19; 2314.5; 01-DEC-2010 04:31:19; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;45766
 20; 2456.0; 01-DEC-2010 04:33:41; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;45766
 21; 2601.3; 01-DEC-2010 04:36:06; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;45766
 22; 2722.5; 01-DEC-2010 04:38:07; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45766
 23; 2830.6; 01-DEC-2010 04:39:55; Bright; 51.0; 6; 13Alp Aur ; 0.08; 3400;occ; 102; 0;45766
 24; 2938.8; 01-DEC-2010 04:41:44; Bright; 46.5; 42; 34Bet Aur ; 1.90; 10200;occ; 93; 0;45766

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7; 2449.4; 03-DEC-2010 11:41:17; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;45799
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7; 2445.6; 05-DEC-2010 02:06:36; Bright; 20.0; 150; 44Zet Per ; 2.89; 28000;occ; 40; 0;45822
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13; 4120.1; 05-DEC-2010 02:34:30; Bright; 48.5; 39; 85Eta UMa ; 1.85; 24000;occ; 97; 50;45822
14; 4345.1; 05-DEC-2010 02:38:16; Bright; 41.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 83; 59;45822
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16; 4862.1; 05-DEC-2010 02:46:52; Bright; 23.5; 138; 47Eps Vir ; 2.83; 4700;occ; 47; 17;45822
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19; 6660.7; 05-DEC-2010 03:16:51; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 67;45823
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 7; 2529.7; 06-DEC-2010 08:12:13; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;45840
 8; 2711.1; 06-DEC-2010 08:15:14; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45840
 9; 2873.9; 06-DEC-2010 08:17:57; Bright; 32.0; 42; 34Bet Aur ; 1.90; 10200;occ; 64; 0;45840

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 13; 4120.3; 06-DEC-2010 08:38:43; Bright; 35.5; 39; 85Eta UMA ; 1.85; 24000;occ; 71; 0;45840
 14; 4330.0; 06-DEC-2010 08:42:13; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;45840
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 21; 5434.0; 07-DEC-2010 18:25:18; Dark ; 43.5; 169; 46Gam Hya ; 2.99; 4700;occ; 87; 0;45860
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 23; 5616.4; 07-DEC-2010 18:28:20; Dark ; 53.5; 171; 2Eps Crv ; 3.00; 4250;occ; 107; 0;45860
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 27; 6692.2; 07-DEC-2010 18:46:16; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45861
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 4; 1735.8; 07-DEC-2010 19:03:54; Dark ; 54.0; 7; 19Bet Ori ; 0.10; 14000;occ; 108; 0;45861
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23; 5617.4; 07-DEC-2010 20:08:35; Dark ; 55.0; 171; 2Eps Crv ; 3.00; 4250;occ; 110; 0;45861
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 13; 1523.2; 15-DEC-2010 00:44:39; Dark ; 54.0; 47; 2Bet CMA ; 1.98; 28000;occ; 108; 0;45965
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17; 2060.7; 16-DEC-2010 00:16:53; Dark ; 67.0; 14; 58Alp Ori ; 0.87; 3000;occ; 134; 0;45979
18; 2176.9; 16-DEC-2010 00:18:50; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;45979
19; 2310.4; 16-DEC-2010 00:21:03; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;45979
20; 2433.3; 16-DEC-2010 00:23:06; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;45979
21; 2648.6; 16-DEC-2010 00:26:41; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;45979
22; 2778.4; 16-DEC-2010 00:28:51; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;45979
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24; 3939.8; 16-DEC-2010 00:48:12; Bright; 30.0; 87; 64Gam UMa ; 2.43; 11000;occ; 60; 0;45979
25; 4001.4; 16-DEC-2010 00:49:14; Bright; 59.0; 55; 79Zet UMa ; 2.06; 10200;occ; 118; 0;45979

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 27; 4316.8; 16-DEC-2010 00:54:29; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;45979
 28; 4508.9; 16-DEC-2010 00:57:42; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;45979
 29; 4707.3; 16-DEC-2010 01:01:00; Bright; 60.0; 111; 8Eta Boo ; 2.68; 6000;occ; 120; 0;45979
 30; 4943.7; 16-DEC-2010 01:04:56; Bright; 53.5; 138; 47Eps Vir ; 2.83; 4700;occ; 107; 0;45979
 31; 5301.6; 16-DEC-2010 01:10:54; Dark ; 30.0; 15; 67Alp Vir ; 0.98; 28000;occ; 60; 0;45979

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 13; 26.0; 15-DEC-2010 07:00:38; Dark ; 43.0; 99; Del Cen ; 2.58; 26000;occ; 86; 0;45969
 14; 253.3; 15-DEC-2010 07:04:26; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;45969
 15; 483.2; 15-DEC-2010 07:08:16; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;45969
 16; 569.4; 15-DEC-2010 07:09:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45969
 17; 760.6; 15-DEC-2010 07:12:53; Dark ; 50.0; 34; Gam2Vel ; 1.79; 23000;occ; 100; 0;45969
 18; 892.0; 15-DEC-2010 07:15:04; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;45969
 19; 1052.2; 15-DEC-2010 07:17:45; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;45969
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 7; 2437.3; 15-DEC-2010 07:40:50; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;45969
 8; 2655.0; 15-DEC-2010 07:44:27; Bright; 45.5; 107; 37The Aur ; 2.65; 11000;occ; 91; 0;45969
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 10; 3686.2; 15-DEC-2010 08:01:39; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;45969
 11; 3964.1; 15-DEC-2010 08:06:17; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45969
 12; 4117.2; 15-DEC-2010 08:08:50; Bright; 40.5; 39; 85Eta UMa ; 1.85; 24000;occ; 81; 0;45969
 13; 4316.0; 15-DEC-2010 08:12:09; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;45969
 14; 4507.4; 15-DEC-2010 08:15:20; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;45969
 15; 4704.3; 15-DEC-2010 08:18:37; Bright; 39.5; 111; 8Eta Boo ; 2.68; 6000;occ; 79; 0;45969
 16; 4937.4; 15-DEC-2010 08:22:30; Bright; 73.0; 138; 47Eps Vir ; 2.83; 4700;occ; 146; 0;45969
 17; 5294.5; 15-DEC-2010 08:28:27; Dark ; 46.0; 15; 67Alp Vir ; 0.98; 28000;occ; 92; 0;45969
 18; 5503.8; 15-DEC-2010 08:31:56; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;45969
 19; 5649.1; 15-DEC-2010 08:34:22; Dark ; 53.0; 106; 9Bet Crv ; 2.65; 5600;occ; 106; 0;45969
 20; 5741.7; 15-DEC-2010 08:35:54; Dark ; 58.0; 171; 2Eps Crv ; 3.00; 4250;occ; 116; 0;45969
 21; 5943.9; 15-DEC-2010 08:39:16; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;45969
 22; 6040.7; 15-DEC-2010 08:40:53; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;45970
 23; 6268.5; 15-DEC-2010 08:44:41; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;45970
 24; 6498.0; 15-DEC-2010 08:48:30; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;45970
 25; 6584.1; 15-DEC-2010 08:49:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45970
 26; 6775.4; 15-DEC-2010 08:53:08; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;45970
 27; 6906.4; 15-DEC-2010 08:55:19; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;45970
 28; 7066.8; 15-DEC-2010 08:57:59; Dark ; 55.0; 117; Pi Pup ; 2.71; 3800;occ; 110; 0;45970
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 3; 2063.7; 15-DEC-2010 09:14:50; Dark ; 65.0; 14; 58Alp Ori ; 0.87; 3000;occ; 130; 0;45970
 4; 2177.9; 15-DEC-2010 09:16:44; Dark ; 47.0; 13; 87Alp Tau ; 0.87; 3800;occ; 94; 0;45970
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 6; 2436.9; 15-DEC-2010 09:21:03; Bright; 45.0; 28; 12Bet Tau ; 1.65; 15200;occ; 90; 0;45970
 7; 2654.4; 15-DEC-2010 09:24:41; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;45970
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11; 4117.2; 15-DEC-2010 09:49:04; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;45970
12; 4316.2; 15-DEC-2010 09:52:23; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;45970
13; 4507.5; 15-DEC-2010 09:55:34; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;45970
14; 4704.7; 15-DEC-2010 09:58:51; Bright; 60.0; 111; 8Eta Boo ; 2.68; 6000;occ; 120; 0;45970
15; 4938.0; 15-DEC-2010 10:02:45; Bright; 74.0; 138; 47Eps Vir ; 2.83; 4700;occ; 148; 0;45970
16; 5295.2; 15-DEC-2010 10:08:42; Dark ; 44.0; 15; 67Alp Vir ; 0.98; 28000;occ; 88; 0;45970
17; 5504.5; 15-DEC-2010 10:12:11; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;45970
18; 5650.3; 15-DEC-2010 10:14:37; Dark ; 55.0; 106; 9Bet Crv ; 2.65; 5600;occ; 110; 0;45970
19; 5742.9; 15-DEC-2010 10:16:09; Dark ; 58.5; 171; 2Eps Crv ; 3.00; 4250;occ; 117; 0;45970
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21; 6269.2; 15-DEC-2010 10:24:56; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;45971
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23; 6584.8; 15-DEC-2010 10:30:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45971
24; 6776.1; 15-DEC-2010 10:33:23; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;45971
25; 6906.6; 15-DEC-2010 10:35:33; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;45971
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27; 7262.9; 15-DEC-2010 10:41:29; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;45971
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 3; 1873.2; 15-DEC-2010 10:51:54; Dark ; 49.0; 30; 46Eps Ori ; 1.69; 30000;occ; 98; 0;45971
 4; 2063.4; 15-DEC-2010 10:55:04; Dark ; 68.0; 14; 58Alp Ori ; 0.87; 3000;occ; 136; 0;45971
 5; 2177.7; 15-DEC-2010 10:56:58; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;45971
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11; 3943.0; 15-DEC-2010 11:26:23; Bright; 47.0; 87; 64Gam UMa ; 2.43; 11000;occ; 94; 0;45971
12; 4117.1; 15-DEC-2010 11:29:18; Bright; 41.0; 39; 85Eta UMa ; 1.85; 24000;occ; 82; 0;45971
13; 4316.3; 15-DEC-2010 11:32:37; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;45971
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19; 5651.3; 15-DEC-2010 11:54:52; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;45971
20; 5744.2; 15-DEC-2010 11:56:25; Dark ; 57.0; 171; 2Eps Crv ; 3.00; 4250;occ; 114; 0;45971
21; 6042.1; 15-DEC-2010 12:01:23; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;45972
22; 6270.1; 15-DEC-2010 12:05:11; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45972
23; 6499.1; 15-DEC-2010 12:09:00; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;45972
24; 6585.6; 15-DEC-2010 12:10:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45972
25; 6776.8; 15-DEC-2010 12:13:37; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;45972
26; 6907.1; 15-DEC-2010 12:15:48; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;45972
27; 7067.9; 15-DEC-2010 12:18:28; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;45972
28; 7263.4; 15-DEC-2010 12:21:44; Dark ; 55.5; 23; 21Eps CMA ; 1.50; 26000;occ; 111; 0;45972
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 4; 2063.1; 15-DEC-2010 12:35:17; Dark ; 57.5; 14; 58Alp Ori ; 0.87; 3000;occ; 115; 0;45972
 5; 2177.7; 15-DEC-2010 12:37:12; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;45972
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13; 4316.4; 15-DEC-2010 13:12:51; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;45972
14; 4507.9; 15-DEC-2010 13:16:02; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45972
15; 4705.3; 15-DEC-2010 13:19:20; Bright; 60.0; 111; 8Eta Boo ; 2.68; 6000;occ; 120; 0;45972
16; 4939.3; 15-DEC-2010 13:23:14; Bright; 74.0; 138; 47Eps Vir ; 2.83; 4700;occ; 148; 0;45972
17; 5296.6; 15-DEC-2010 13:29:11; Dark ; 51.0; 15; 67Alp Vir ; 0.98; 28000;occ; 102; 0;45972

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22; 6042.7; 15-DEC-2010 13:41:37; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;45973
23; 6271.0; 15-DEC-2010 13:45:25; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;45973
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25; 6586.4; 15-DEC-2010 13:50:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45973
26; 6777.6; 15-DEC-2010 13:53:52; Dark ; 54.5; 34; Gam2Vel ; 1.79; 23000;occ; 109; 0;45973
27; 6907.5; 15-DEC-2010 13:56:02; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;45973
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 23; 3685.5; 17-DEC-2010 00:07:14; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;45993
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 27; 4511.4; 17-DEC-2010 00:21:00; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;45993
 28; 4711.7; 17-DEC-2010 00:24:21; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;45993
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 21; 1526.2; 16-DEC-2010 08:29:09; Dark ; 53.5; 47; 2Bet CMa ; 1.98; 28000;occ; 107; 0;45984

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 13; 4510.0; 16-DEC-2010 09:18:53; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45984
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 17; 5514.8; 16-DEC-2010 09:35:38; Dark ; 49.0; 169; 46Gam Hya ; 2.99; 4700;occ; 98; 0;45984
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 27; 7075.1; 16-DEC-2010 10:01:38; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;45985
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13; 4317.3; 16-DEC-2010 10:55:54; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;45985
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28; 7077.0; 16-DEC-2010 15:02:22; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;45988
29; 7270.2; 16-DEC-2010 15:05:35; Dark ; 51.5; 23; 21Eps CMa ; 1.50; 26000;occ; 103; 0;45988
30; 7376.7; 16-DEC-2010 15:07:21; Dark ; 24.5; 179; 240mi2CMa ; 3.03; 24000;occ; 49; 0;45988

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1; 1526.8; 16-DEC-2010 15:10:06; Dark ; 53.0; 47; 2Bet CMa ; 1.98; 28000;occ; 106; 0;45988
2; 1738.5; 16-DEC-2010 15:13:37; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;45988
3; 1871.8; 16-DEC-2010 15:15:51; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;45988
4; 2057.8; 16-DEC-2010 15:18:57; Dark ; 59.0; 14; 58Alp Ori ; 0.87; 3000;occ; 118; 0;45988
5; 2176.7; 16-DEC-2010 15:20:55; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;45988
6; 2307.2; 16-DEC-2010 15:23:06; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;45988
7; 2430.1; 16-DEC-2010 15:25:09; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;45988
8; 2643.2; 16-DEC-2010 15:28:42; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;45988
9; 2773.4; 16-DEC-2010 15:30:52; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;45988
10; 3685.8; 16-DEC-2010 15:46:05; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;45988
11; 3960.0; 16-DEC-2010 15:50:39; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;45988
12; 4116.2; 16-DEC-2010 15:53:15; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;45988
13; 4317.9; 16-DEC-2010 15:56:37; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;45988
14; 4510.7; 16-DEC-2010 15:59:50; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0;45988
15; 4710.3; 16-DEC-2010 16:03:09; Bright; 61.0; 111; 8Eta Boo ; 2.68; 6000;occ; 122; 0;45988
16; 4950.1; 16-DEC-2010 16:07:09; Bright; 33.0; 138; 47Eps Vir ; 2.83; 4700;occ; 66; 0;45988
17; 5308.3; 16-DEC-2010 16:13:07; Dark ; 55.0; 15; 67Alp Vir ; 0.98; 28000;occ; 110; 0;45988
18; 5518.0; 16-DEC-2010 16:16:37; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;45988
19; 5669.8; 16-DEC-2010 16:19:09; Dark ; 53.5; 106; 9Bet Crv ; 2.65; 5600;occ; 107; 0;45988
20; 5766.9; 16-DEC-2010 16:20:46; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;45988
21; 5955.9; 16-DEC-2010 16:23:55; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;45988
22; 6053.9; 16-DEC-2010 16:25:33; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;45989
23; 6285.4; 16-DEC-2010 16:29:24; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;45989
24; 6509.7; 16-DEC-2010 16:33:08; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;45989
25; 6598.5; 16-DEC-2010 16:34:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45989
26; 6789.0; 16-DEC-2010 16:37:48; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;45989
27; 6916.1; 16-DEC-2010 16:39:55; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;45989
28; 7077.6; 16-DEC-2010 16:42:36; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;45989
29; 7270.7; 16-DEC-2010 16:45:49; Dark ; 6.5; 23; 21Eps CMa ; 1.50; 26000;occ; 13; 0;45989

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1; 1256.6; 16-DEC-2010 16:45:49; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;45989
2; 1362.9; 16-DEC-2010 16:47:36; Dark ; 25.0; 179; 240mi2CMa ; 3.03; 24000;occ; 50; 0;45989
3; 1526.8; 16-DEC-2010 16:50:20; Dark ; 52.5; 47; 2Bet CMa ; 1.98; 28000;occ; 105; 0;45989
4; 1738.4; 16-DEC-2010 16:53:51; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;45989
5; 1871.4; 16-DEC-2010 16:56:04; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;45989
6; 2057.5; 16-DEC-2010 16:59:10; Dark ; 67.0; 14; 58Alp Ori ; 0.87; 3000;occ; 134; 0;45989
7; 2176.5; 16-DEC-2010 17:01:09; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;45989
8; 2306.5; 16-DEC-2010 17:03:19; Bright; 47.0; 176; 23Zet Tau ; 3.02; 22000;occ; 94; 0;45989
9; 2429.4; 16-DEC-2010 17:05:22; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;45989
10; 2642.4; 16-DEC-2010 17:08:55; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;45989
11; 2772.8; 16-DEC-2010 17:11:06; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;45989
12; 3685.7; 16-DEC-2010 17:26:19; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;45989
13; 3959.8; 16-DEC-2010 17:30:53; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45989
14; 4116.0; 16-DEC-2010 17:33:29; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;45989

15; 4317.9; 16-DEC-2010 17:36:51; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;45989
 16; 4510.9; 16-DEC-2010 17:40:04; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;45989
 17; 4710.6; 16-DEC-2010 17:43:24; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;45989
 18; 4950.7; 16-DEC-2010 17:47:24; Bright; 33.0; 138; 47Eps Vir ; 2.83; 4700;occ; 66; 0;45989
 19; 5309.0; 16-DEC-2010 17:53:22; Dark ; 51.5; 15; 67Alp Vir ; 0.98; 28000;occ; 103; 0;45989
 20; 5518.7; 16-DEC-2010 17:56:52; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;45989
 21; 5670.8; 16-DEC-2010 17:59:24; Dark ; 56.5; 106; 9Bet Crv ; 2.65; 5600;occ; 113; 0;45989
 22; 5768.1; 16-DEC-2010 18:01:01; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;45989
 23; 5956.4; 16-DEC-2010 18:04:09; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;45989
 24; 6054.5; 16-DEC-2010 18:05:47; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;45990
 25; 6286.2; 16-DEC-2010 18:09:39; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;45990
 26; 6510.2; 16-DEC-2010 18:13:23; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;45990
 27; 6599.2; 16-DEC-2010 18:14:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45990
 28; 6789.6; 16-DEC-2010 18:18:02; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;45990
 29; 6916.7; 16-DEC-2010 18:20:10; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;45990
 30; 7078.0; 16-DEC-2010 18:22:51; Dark ; 30.5; 117; Pi Pup ; 2.71; 3800;occ; 61; 0;45990

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1; -698.6; 17-DEC-2010 00:34:24; Dark ; 57.0; 15; 67Alp Vir ; 0.98; 28000;occ; 114; 7;45993
 2; -492.4; 17-DEC-2010 00:37:50; Dark ; 47.0; 169; 46Gam Hya ; 2.99; 4700;occ; 94; 0;45993
 3; -240.6; 17-DEC-2010 00:42:02; Dark ; 35.0; 171; 2Eps Crv ; 3.00; 4250;occ; 70; 0;45993
 4; -55.2; 17-DEC-2010 00:45:08; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;45993
 5; 43.0; 17-DEC-2010 00:46:46; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;45994
 6; 275.5; 17-DEC-2010 00:50:38; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;45994
 7; 498.6; 17-DEC-2010 00:54:22; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;45994
 8; 588.1; 17-DEC-2010 00:55:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45994
 9; 778.2; 17-DEC-2010 00:59:01; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;45994
 10; 905.4; 17-DEC-2010 01:01:08; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;45994
 11; 1065.9; 17-DEC-2010 01:03:49; Dark ; 54.5; 117; Pi Pup ; 2.71; 3800;occ; 109; 0;45994
 12; 1258.4; 17-DEC-2010 01:07:01; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;45994
 13; 1364.4; 17-DEC-2010 01:08:47; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;45994
 14; 1527.5; 17-DEC-2010 01:11:30; Dark ; 51.0; 47; 2Bet CMa ; 1.98; 28000;occ; 102; 0;45994
 15; 1738.3; 17-DEC-2010 01:15:01; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;45994
 16; 1870.9; 17-DEC-2010 01:17:14; Dark ; 47.5; 30; 46Eps Ori ; 1.69; 30000;occ; 95; 0;45994
 17; 2055.8; 17-DEC-2010 01:20:19; Dark ; 58.5; 14; 58Alp Ori ; 0.87; 3000;occ; 117; 0;45994
 18; 2176.1; 17-DEC-2010 01:22:19; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;45994
 19; 2304.3; 17-DEC-2010 01:24:27; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;45994
 20; 2427.4; 17-DEC-2010 01:26:30; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;45994
 21; 2639.5; 17-DEC-2010 01:30:02; Bright; 46.0; 107; 37The Aur ; 2.65; 11000;occ; 92; 0;45994
 22; 2770.0; 17-DEC-2010 01:32:13; Bright; 45.0; 42; 34Bet Aur ; 1.90; 10200;occ; 90; 0;45994
 23; 3685.4; 17-DEC-2010 01:47:28; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;45994
 24; 3958.4; 17-DEC-2010 01:52:01; Bright; 43.5; 32; 77Eps UMa ; 1.76; 11000;occ; 87; 0;45994
 25; 4115.5; 17-DEC-2010 01:54:38; Bright; 43.0; 39; 85Eta UMa ; 1.85; 24000;occ; 86; 0;45994
 26; 4318.1; 17-DEC-2010 01:58:01; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;45994
 27; 4511.5; 17-DEC-2010 02:01:14; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0;45994
 28; 4712.1; 17-DEC-2010 02:04:35; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;45994

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1; -701.4; 17-DEC-2010 02:14:36; Dark ; 52.5; 15; 67Alp Vir ; 0.98; 28000;occ; 105; 0;45994
 2; -337.7; 17-DEC-2010 02:20:39; Dark ; 57.5; 106; 9Bet Crv ; 2.65; 5600;occ; 115; 0;45994
 3; -239.1; 17-DEC-2010 02:22:18; Dark ; 29.0; 171; 2Eps Crv ; 3.00; 4250;occ; 58; 0;45994
 4; 43.9; 17-DEC-2010 02:27:01; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;45995
 5; 276.5; 17-DEC-2010 02:30:53; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;45995
 6; 499.3; 17-DEC-2010 02:34:36; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;45995
 7; 588.8; 17-DEC-2010 02:36:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45995
 8; 778.9; 17-DEC-2010 02:39:16; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;45995
 9; 906.3; 17-DEC-2010 02:41:23; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;45995
 10; 1066.6; 17-DEC-2010 02:44:03; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;45995
 11; 1259.0; 17-DEC-2010 02:47:16; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;45995
 12; 1364.8; 17-DEC-2010 02:49:02; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;45995
 13; 1527.6; 17-DEC-2010 02:51:44; Dark ; 52.5; 47; 2Bet CMa ; 1.98; 28000;occ; 105; 0;45995
 14; 1738.5; 17-DEC-2010 02:55:15; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;45995
 15; 1870.9; 17-DEC-2010 02:57:28; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;45995
 16; 2055.5; 17-DEC-2010 03:00:32; Dark ; 57.0; 14; 58Alp Ori ; 0.87; 3000;occ; 114; 0;45995
 17; 2176.2; 17-DEC-2010 03:02:33; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;45995
 18; 2304.1; 17-DEC-2010 03:04:41; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;45995
 19; 2427.2; 17-DEC-2010 03:06:44; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;45995
 20; 2638.9; 17-DEC-2010 03:10:16; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;45995
 21; 2769.5; 17-DEC-2010 03:12:26; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;45995

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1;-2328.6; 17-DEC-2010 03:27:42; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;45995
 2;-2055.8; 17-DEC-2010 03:32:15; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;45995
 3;-1898.5; 17-DEC-2010 03:34:52; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;45995
 4;-1695.9; 17-DEC-2010 03:38:15; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;45995
 5;-1502.3; 17-DEC-2010 03:41:29; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45995
 6;-1301.7; 17-DEC-2010 03:44:49; Bright; 41.0; 111; 8Eta Boo ; 2.68; 6000;occ; 82; 0;45995
 7; -700.5; 17-DEC-2010 03:54:50; Dark ; 51.0; 15; 67Alp Vir ; 0.98; 28000;occ; 102; 0;45995
 8; -414.7; 17-DEC-2010 03:59:36; Dark ; 54.5; 163; 7Del Crv ; 2.94; 11000;occ; 109; 0;45995
 9; -336.8; 17-DEC-2010 04:00:54; Dark ; 60.0; 106; 9Bet Crv ; 2.65; 5600;occ; 120; 0;45995
 10; -237.8; 17-DEC-2010 04:02:33; Dark ; 29.0; 171; 2Eps Crv ; 3.00; 4250;occ; 58; 0;45995
 11; -54.1; 17-DEC-2010 04:05:37; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;45995
 12; 44.6; 17-DEC-2010 04:07:16; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;45996
 13; 277.4; 17-DEC-2010 04:11:08; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;45996
 14; 499.8; 17-DEC-2010 04:14:51; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;45996
 15; 589.5; 17-DEC-2010 04:16:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45996
 16; 779.7; 17-DEC-2010 04:19:31; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;45996
 17; 907.1; 17-DEC-2010 04:21:38; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;45996
 18; 1067.3; 17-DEC-2010 04:24:18; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;45996
 19; 1259.5; 17-DEC-2010 04:27:30; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;45996
 20; 1365.1; 17-DEC-2010 04:29:16; Dark ; 44.0; 179; 240mi2CMa ; 3.03; 24000;occ; 88; 0;45996
 21; 1527.9; 17-DEC-2010 04:31:59; Dark ; 49.5; 47; 2Bet CMa ; 1.98; 28000;occ; 99; 0;45996
 22; 1738.6; 17-DEC-2010 04:35:30; Dark ; 53.5; 7; 19Bet Ori ; 0.10; 14000;occ; 107; 0;45996
 23; 1870.9; 17-DEC-2010 04:37:42; Dark ; 47.5; 30; 46Eps Ori ; 1.69; 30000;occ; 95; 0;45996
 24; 2055.4; 17-DEC-2010 04:40:46; Dark ; 60.0; 14; 58Alp Ori ; 0.87; 3000;occ; 120; 0;45996
 25; 2176.2; 17-DEC-2010 04:42:47; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;45996
 26; 2303.7; 17-DEC-2010 04:44:55; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;45996
 27; 2426.9; 17-DEC-2010 04:46:58; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;45996
 28; 2638.4; 17-DEC-2010 04:50:29; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;45996
 29; 2769.0; 17-DEC-2010 04:52:40; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;45996
 30; 3685.5; 17-DEC-2010 05:07:56; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;45996

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1;-2311.1; 17-DEC-2010 05:08:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 35;45996
 2;-2056.1; 17-DEC-2010 05:12:29; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0;45996
 3;-1898.6; 17-DEC-2010 05:15:06; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;45996
 4;-1695.9; 17-DEC-2010 05:18:29; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;45996
 5;-1502.2; 17-DEC-2010 05:21:43; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45996
 6;-1301.5; 17-DEC-2010 05:25:04; Bright; 42.5; 111; 8Eta Boo ; 2.68; 6000;occ; 85; 0;45996
 7; -699.9; 17-DEC-2010 05:35:05; Dark ; 57.0; 15; 67Alp Vir ; 0.98; 28000;occ; 114; 0;45996
 8; -413.3; 17-DEC-2010 05:39:52; Dark ; 48.0; 163; 7Del Crv ; 2.94; 11000;occ; 96; 0;45996
 9; -335.7; 17-DEC-2010 05:41:09; Dark ; 55.5; 106; 9Bet Crv ; 2.65; 5600;occ; 111; 0;45996
 10; -53.4; 17-DEC-2010 05:45:52; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;45996
 11; 45.2; 17-DEC-2010 05:47:30; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;45997
 12; 278.3; 17-DEC-2010 05:51:23; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;45997
 13; 500.4; 17-DEC-2010 05:55:06; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;45997
 14; 590.2; 17-DEC-2010 05:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45997
 15; 780.3; 17-DEC-2010 05:59:45; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45997
 16; 907.7; 17-DEC-2010 06:01:53; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;45997
 17; 1067.7; 17-DEC-2010 06:04:33; Dark ; 52.5; 117; Pi Pup ; 2.71; 3800;occ; 105; 0;45997
 18; 1259.8; 17-DEC-2010 06:07:45; Dark ; 52.0; 23; 21Eps CMa ; 1.50; 26000;occ; 104; 0;45997
 19; 1365.4; 17-DEC-2010 06:09:30; Dark ; 44.0; 179; 240mi2CMa ; 3.03; 24000;occ; 88; 0;45997
 20; 1528.1; 17-DEC-2010 06:12:13; Dark ; 51.5; 47; 2Bet CMa ; 1.98; 28000;occ; 103; 0;45997
 21; 1738.6; 17-DEC-2010 06:15:44; Dark ; 56.0; 7; 19Bet Ori ; 0.10; 14000;occ; 112; 0;45997
 22; 1870.9; 17-DEC-2010 06:17:56; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;45997
 23; 2055.0; 17-DEC-2010 06:21:00; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;45997
 24; 2176.2; 17-DEC-2010 06:23:01; Dark ; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;45997
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23; 3685.1; 18-DEC-2010 01:10:44; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;46008
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17; 6000.8; 21-DEC-2010 10:00:34; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;46056
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23; 6964.1; 21-DEC-2010 10:16:37; Dark ; 49.5; 70; Zet Pup ; 2.25; 39000;occ; 99; 0;46057
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 19; 6347.4; 21-DEC-2010 11:46:34; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46058
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 13; 3936.9; 22-DEC-2010 18:50:50; Bright; 46.0; 32; 77Eps UMa ; 1.76; 11000;occ; 92; 0;46076
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 23; 3935.6; 23-DEC-2010 01:31:45; Bright; 65.0; 32; 77Eps UMa ; 1.76; 11000;occ; 130; 0;46080
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13; 1390.8; 23-DEC-2010 02:29:34; Dark ; 48.5; 179; 240mi2CMA ; 3.03; 24000;occ; 97; 0;46081
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13; 552.3; 23-DEC-2010 05:36:04; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;46083
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 3; -214.8; 23-DEC-2010 23:45:51; Dark ; 28.0; 106; 9Bet Crv ; 2.65; 5600;occ; 56; 0;46093
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 7; 558.6; 23-DEC-2010 23:58:44; Dark ; 48.0; 71; Iot Car ; 2.25; 7700;occ; 96; 0;46094
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 12; 1295.7; 24-DEC-2010 00:11:01; Dark ; 51.5; 23; 21Eps Cma ; 1.50; 26000;occ; 103; 0;46094
 13; 1394.3; 24-DEC-2010 00:12:40; Dark ; 47.0; 179; 240mi2Cma ; 3.03; 24000;occ; 94; 0;46094
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 23; 3931.4; 24-DEC-2010 00:54:57; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;46094
 24; 4106.0; 24-DEC-2010 00:57:52; Bright; 62.0; 39; 85Eta UMa ; 1.85; 24000;occ; 124; 0;46094
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11; 98.1; 23-DEC-2010 07:08:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46084
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13; 4527.9; 23-DEC-2010 08:22:33; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;46084
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27; 7405.9; 23-DEC-2010 09:10:31; Dark ; 47.5; 179; 240mi2CMa ; 3.03; 24000;occ; 95; 0;46085
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 27; 7410.1; 24-DEC-2010 11:54:20; Dark ; 45.5; 179; 240mi2CMA ; 3.03; 24000;occ; 91; 0;46101
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25; 6767.5; 24-DEC-2010 16:44:19; Dark ; 62.5; 65; Lam Vel ; 2.20; 4400;occ; 125; 0;46104
26; 6863.8; 24-DEC-2010 16:45:56; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;46104
27; 6994.3; 24-DEC-2010 16:48:06; Dark ; 50.0; 70; Zet Pup ; 2.25; 39000;occ; 100; 0;46104
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13;	3680.5;	24-DEC-2010	19:13:21;	Bright;	;	54.0;	60;	7Bet UMi	;	2.08;	3950;occ;	108;	0;	46105
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15;	4104.8;	24-DEC-2010	19:20:25;	Bright;	;	43.5;	39;	85Eta UMa	;	1.85;	24000;occ;	87;	0;	46105
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19;	5276.0;	24-DEC-2010	19:39:56;	Bright;	;	37.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	74;	0;	46105
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22; 6634.3; 31-DEC-2010 14:05:14; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;46203
23; 6729.6; 31-DEC-2010 14:06:50; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;46203
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 27; 7175.5; 31-DEC-2010 15:54:30; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;46204
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 10; 2677.9; 31-DEC-2010 16:19:46; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;46204
 11; 3672.5; 31-DEC-2010 16:36:21; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;46204
 12; 3892.1; 31-DEC-2010 16:40:00; Bright; 48.0; 32; 77Eps UMa ; 1.76; 11000;occ; 96; 0;46204
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 23; 6480.3; 31-DEC-2010 17:23:08; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46205
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 27; 7051.0; 31-DEC-2010 17:32:39; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;46205
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 23; 6221.9; 31-DEC-2010 18:59:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46206
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 26; 6749.9; 31-DEC-2010 19:07:52; Dark ; 47.0; 46; Del Vel ; 1.95; 10600;occ; 94; 0;46206
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2;	1162.1;	31-DEC-2010	19:14:59;	Dark	;	47.0;	117;	Pi Pup	;	2.71;	3800;occ;	94;	0;	46206
3;	1329.8;	31-DEC-2010	19:17:46;	Dark	;	44.0;	23;	21Eps CMa	;	1.50;	26000;occ;	88;	0;	46206
4;	1422.0;	31-DEC-2010	19:19:18;	Dark	;	42.5;	179;	24Omi2CMa	;	3.03;	24000;occ;	85;	0;	46206
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6;	1719.2;	31-DEC-2010	19:24:16;	Dark	;	42.0;	56;	53Kap Ori	;	2.07;	30000;occ;	84;	0;	46206
7;	1869.3;	31-DEC-2010	19:26:46;	Dark	;	44.5;	30;	46Eps Ori	;	1.69;	30000;occ;	89;	0;	46206
8;	2020.2;	31-DEC-2010	19:29:17;	Dark	;	55.0;	14;	58Alp Ori	;	0.87;	3000;occ;	110;	0;	46206
9;	2215.8;	31-DEC-2010	19:32:32;	Dark	;	57.0;	44;	24Gam Gem	;	1.93;	11000;occ;	114;	0;	46206
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11;	2552.7;	31-DEC-2010	19:38:09;	Bright;	;	39.0;	107;	37The Aur	;	2.65;	11000;occ;	78;	0;	46206
12;	2677.7;	31-DEC-2010	19:40:14;	Bright;	;	41.0;	6;	13Alp Aur	;	0.08;	3400;occ;	82;	0;	46206
13;	3672.2;	31-DEC-2010	19:56:49;	Bright;	;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;	46206
14;	3891.1;	31-DEC-2010	20:00:28;	Bright;	;	49.5;	32;	77Eps UMa	;	1.76;	11000;occ;	99;	0;	46206
15;	4087.7;	31-DEC-2010	20:03:44;	Bright;	;	66.0;	39;	85Eta UMa	;	1.85;	24000;occ;	132;	0;	46206
16;	4330.9;	31-DEC-2010	20:07:47;	Bright;	;	62.0;	180;	27Gam Boo	;	3.04;	8000;occ;	124;	0;	46206
17;	4551.4;	31-DEC-2010	20:11:28;	Bright;	;	62.0;	83;		;	2.38;	11000;occ;	124;	0;	46206
18;	4746.2;	31-DEC-2010	20:14:43;	Bright;	;	53.5;	3;	16Alp Boo	;	-0.05;	4250;occ;	107;	0;	46206
19;	5169.6;	31-DEC-2010	20:21:46;	Bright;	;	56.0;	104;	27Bet Lib	;	2.61;	13100;occ;	112;	0;	46206
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21;	5739.5;	31-DEC-2010	20:31:16;	Dark	;	48.5;	54;	5The Cen	;	2.06;	4500;occ;	97;	0;	46206
22;	5904.9;	31-DEC-2010	20:34:01;	Dark	;	42.0;	95;	Zet Cen	;	2.55;	26000;occ;	84;	0;	46206
23;	6113.8;	31-DEC-2010	20:37:30;	Dark	;	44.5;	64;	Gam Cen	;	2.20;	10600;occ;	89;	0;	46207
24;	6222.7;	31-DEC-2010	20:39:19;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	46207
25;	6482.0;	31-DEC-2010	20:43:38;	Dark	;	46.5;	113;	Mu Vel	;	2.69;	5000;occ;	93;	0;	46207
26;	6636.4;	31-DEC-2010	20:46:13;	Dark	;	45.0;	71;	Iot Car	;	2.25;	7700;occ;	90;	0;	46207
27;	6750.2;	31-DEC-2010	20:48:07;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;occ;	85;	0;	46207
28;	6921.0;	31-DEC-2010	20:50:57;	Dark	;	48.0;	34;	Gam2Vel	;	1.79;	23000;occ;	96;	0;	46207
29;	7051.8;	31-DEC-2010	20:53:08;	Dark	;	23.5;	70;	Zet Pup	;	2.25;	39000;occ;	47;	0;	46207