

GOMOS Daily Report 15-APR-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	18APR2010 04:49:05
Data source version	GOMOS/5.00L04
Start time of products	15APR2010 00:00:09
Stop time of products	15APR2010 23:59:54
Store outputs in DB	Yes
Nb of level 1b prods	138
Nb of prods with errors	0

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

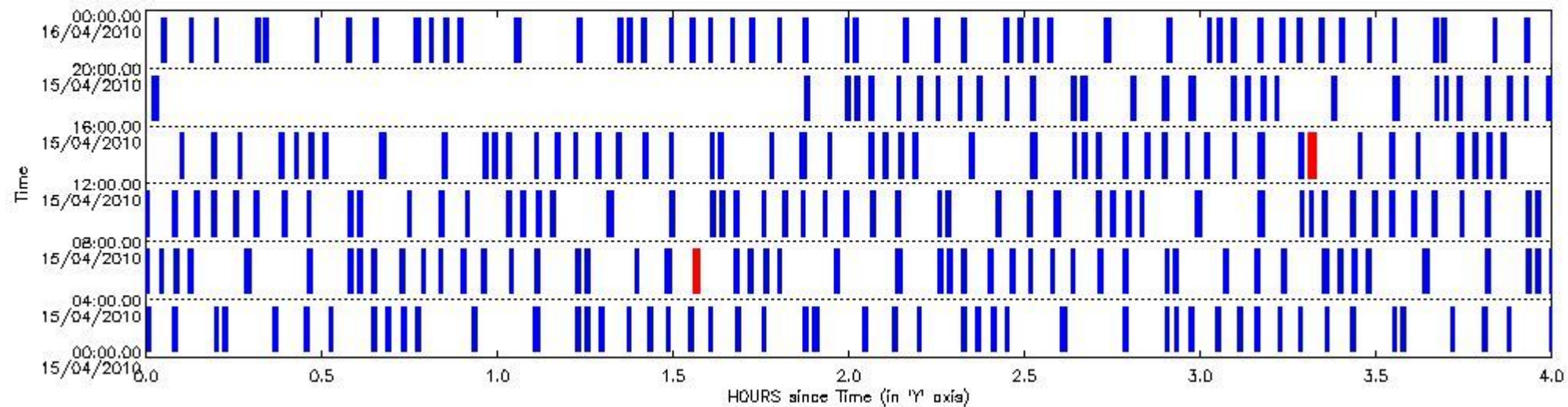
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

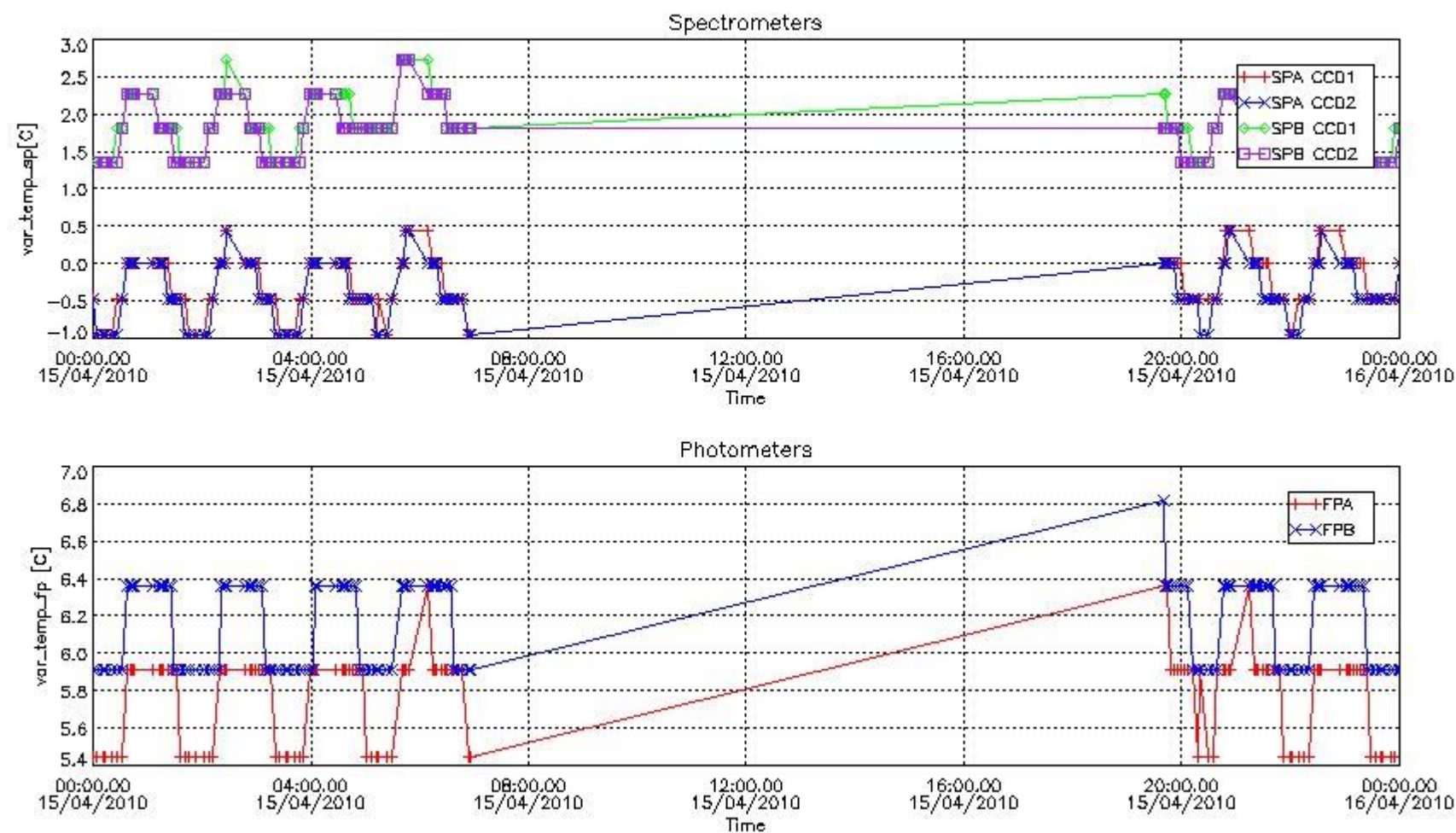
UTC start time	Star name	Star ID	Orbit
15-APR-2010 05:33:25	44EtaPeg	164	42472
15-APR-2010 15:18:29	14EtaDra	119	42478

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_1PNPDE20100415_000009_000000392088_00331_42469_4072.N1	15-APR-2010 00:00:09	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	42469	No
2	GOM_TRA_1PNPDE20100415_000431_000000402088_00331_42469_4073.N1	15-APR-2010 00:04:31	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	42469	No
3	GOM_TRA_1PNPDE20100415_001133_000000402088_00331_42469_4074.N1	15-APR-2010 00:11:33	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	42469	No
4	GOM_TRA_1PNPDE20100415_001304_000000482088_00331_42469_4075.N1	15-APR-2010 00:13:04	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	42469	No
5	GOM_TRA_1PNPDE20100415_002137_000000402088_00331_42469_4076.N1	15-APR-2010 00:21:37	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	42469	No
6	GOM_TRA_1PNPDE20100415_002653_000000502088_00331_42469_4077.N1	15-APR-2010 00:26:53	Bright	49.500	19	50Alp Cyg	1.2460	10500.	99	42469	No
7	GOM_TRA_1PNPDE20100415_003110_000000362088_00331_42469_4078.N1	15-APR-2010 00:31:10	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	42469	No
8	GOM_TRA_1PNPDE20100415_003831_000000502088_00331_42469_4079.N1	15-APR-2010 00:38:31	Twilight	50.000	61	8Eps Peg	2.1000	3900.0	100	42469	No
9	GOM_TRA_1PNPDE20100415_004059_000000462088_00331_42469_4080.N1	15-APR-2010 00:40:59	Dark	45.500	162	34Alp Aqr	2.9440	5350.0	91	42469	No

128	GOM_TRA_1PNPDE20100415_231331_000000482088_00345_42483_4313.N1	15-APR-2010 23:13:31	Bright	47.500	15	67Alp Vir	0.97600	28000.	95	42483	No
129	GOM_TRA_1PNPDE20100415_231634_000000382088_00345_42483_4314.N1	15-APR-2010 23:16:34	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	42483	No
130	GOM_TRA_1PNPDE20100415_232021_000000402088_00345_42483_4315.N1	15-APR-2010 23:20:21	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	42483	No
131	GOM_TRA_1PNPDE20100415_232344_000000482088_00345_42483_4316.N1	15-APR-2010 23:23:44	Bright	47.500	111	8Eta Boo	2.6800	6000.0	95	42483	No
132	GOM_TRA_1PNPDE20100415_232828_000000392088_00345_42483_4317.N1	15-APR-2010 23:28:28	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	42483	No
133	GOM_TRA_1PNPDE20100415_233247_000000402088_00345_42483_4318.N1	15-APR-2010 23:32:47	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	42483	No
134	GOM_TRA_1PNPDE20100415_233951_000000412088_00345_42483_4319.N1	15-APR-2010 23:39:51	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	42483	No
135	GOM_TRA_1PNPDE20100415_234116_000000452088_00345_42483_4320.N1	15-APR-2010 23:41:16	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	42483	No
136	GOM_TRA_1PNPDE20100415_234957_000000372088_00345_42483_4321.N1	15-APR-2010 23:49:57	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	42483	No
137	GOM_TRA_1PNPDE20100415_235514_000000512088_00345_42483_4322.N1	15-APR-2010 23:55:14	Bright	50.500	19	50Alp Cyg	1.2460	10500.	101	42483	No
138	GOM_TRA_1PNPDE20100415_235954_000000512088_00345_42483_4323.N1	15-APR-2010 23:59:54	Bright	51.000	164	44Eta Peg	2.9480	5400.0	102	42483	No

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



4. Overview of dark signal processing per product

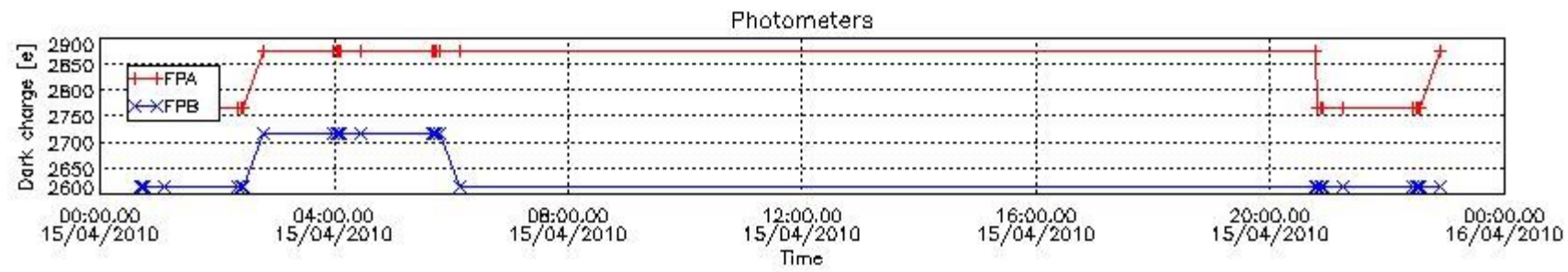
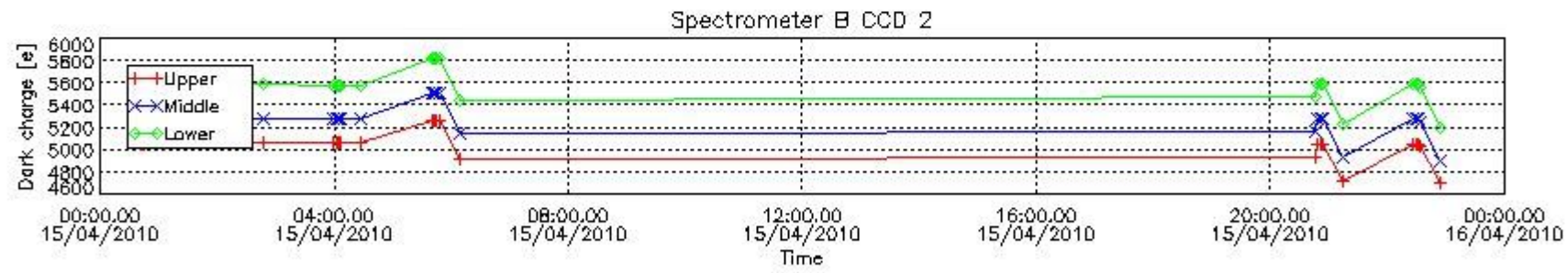
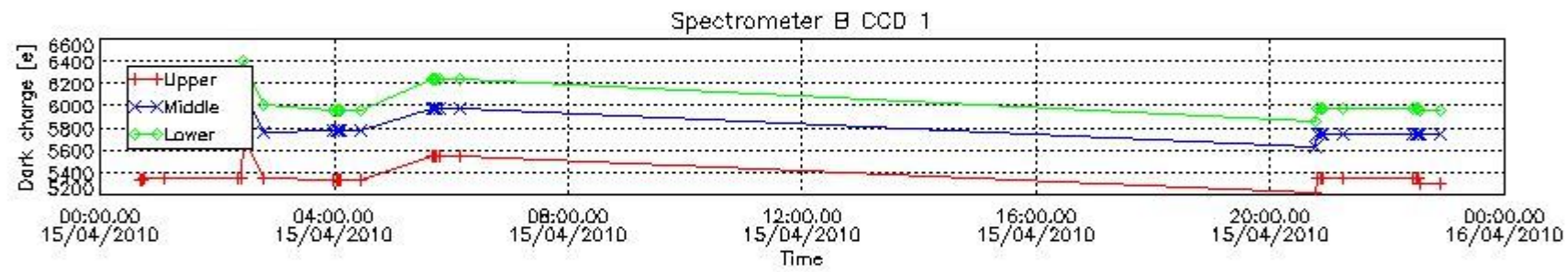
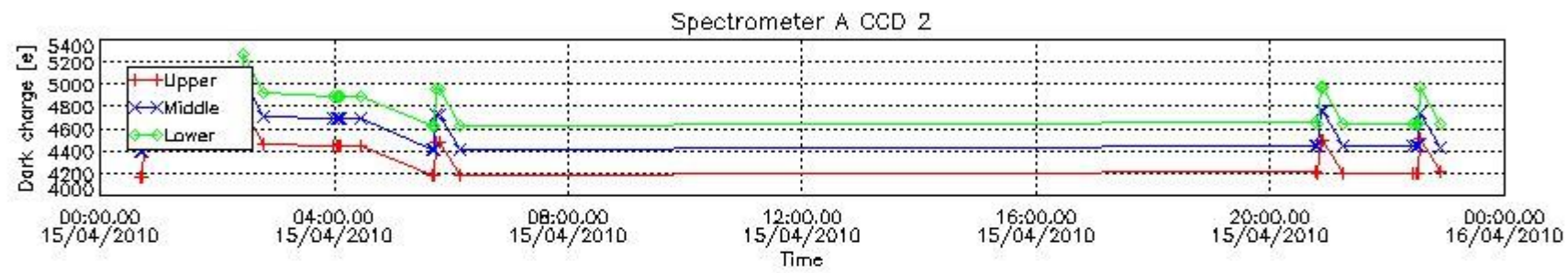
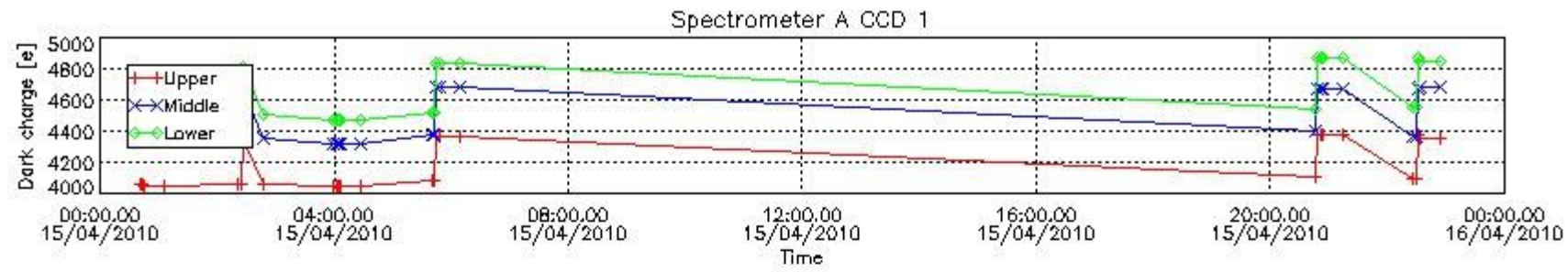
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100415_193959_000000412088_00343_42481_4266.N1	DC map used
GOM_TRA_1PNPDE20100415_194135_000000472088_00343_42481_4267.N1	DC map used
GOM_TRA_1PNPDE20100415_194358_000000462088_00343_42481_4268.N1	DC map used
GOM_TRA_1PNPDE20100415_194841_000000452088_00343_42481_4269.N1	DC map used
GOM_TRA_1PNPDE20100415_195219_000000482088_00343_42481_4270.N1	DC map used
GOM_TRA_1PNPDE20100415_195522_000000392088_00343_42481_4271.N1	DC map used
GOM_TRA_1PNPDE20100415_195910_000000412088_00343_42481_4272.N1	DC map used
GOM_TRA_1PNPDE20100415_200234_000000472088_00343_42481_4273.N1	DC map used
GOM_TRA_1PNPDE20100415_200717_000000392088_00343_42481_4274.N1	DC map used
GOM_TRA_1PNPDE20100415_201136_000000432088_00343_42481_4275.N1	DC map used
GOM_TRA_1PNPDE20100415_201840_000000402088_00343_42481_4276.N1	DC map used
GOM_TRA_1PNPDE20100415_202006_000000472088_00343_42481_4277.N1	DC map used
GOM_TRA_1PNPDE20100415_202846_000000412088_00343_42481_4278.N1	DC map used
GOM_TRA_1PNPDE20100415_203403_000000522088_00343_42481_4279.N1	DC map used
GOM_TRA_1PNPDE20100415_203842_000000432088_00343_42481_4280.N1	DC map used
GOM_TRA_1PNPDE20100415_204547_000000532088_00343_42481_4281.N1	DC map used

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



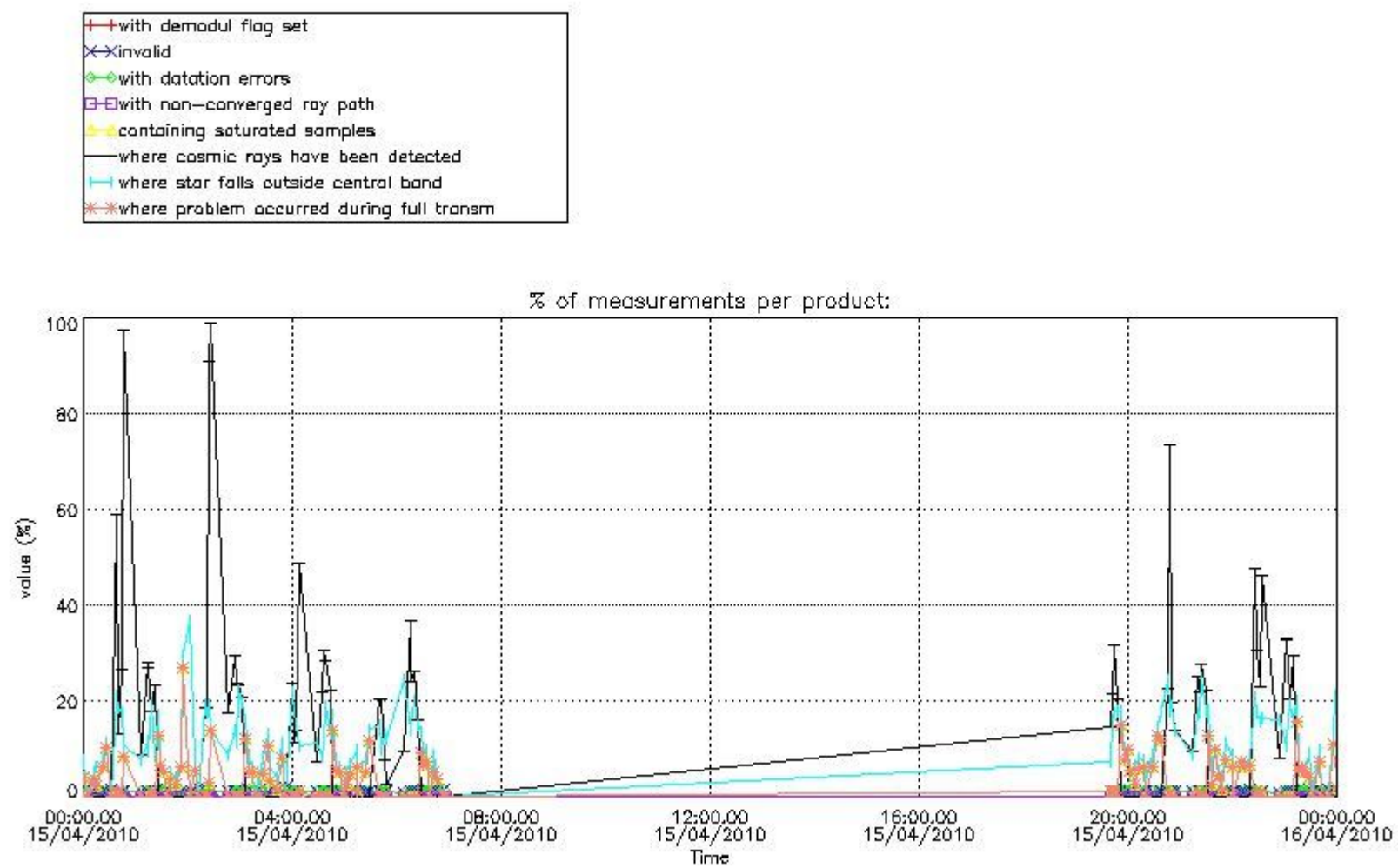
5. Demodulation flag and quality information monitoring

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.

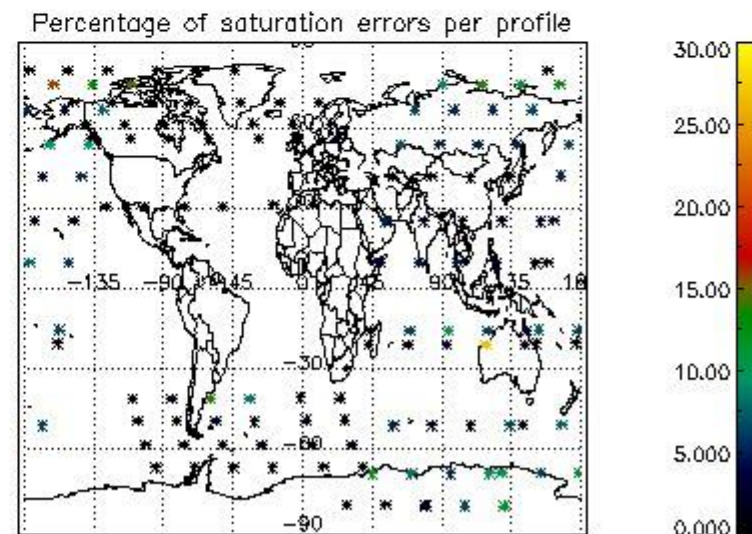
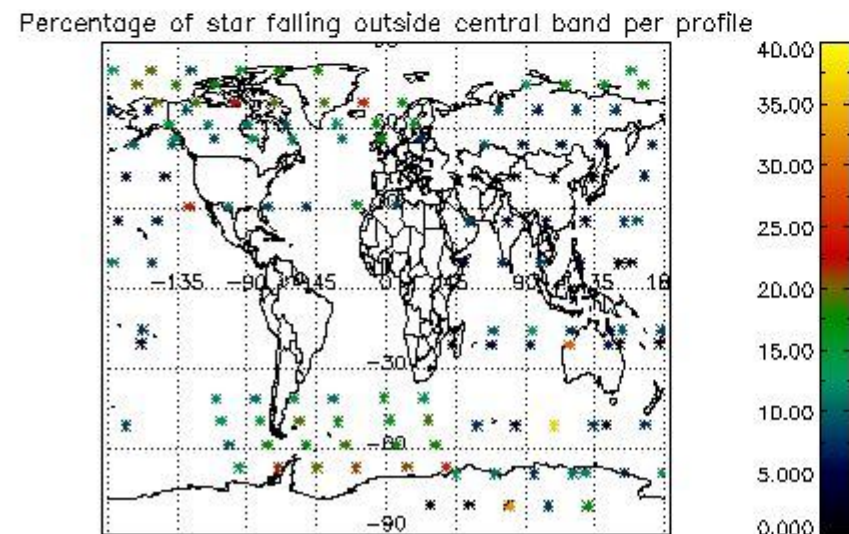
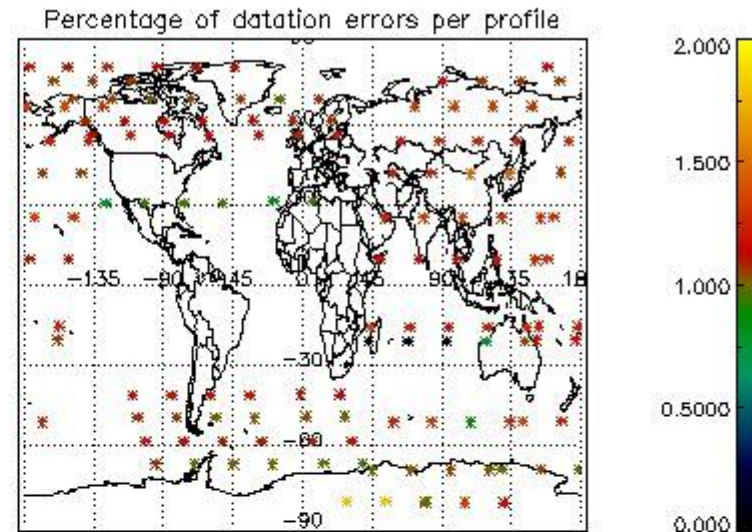
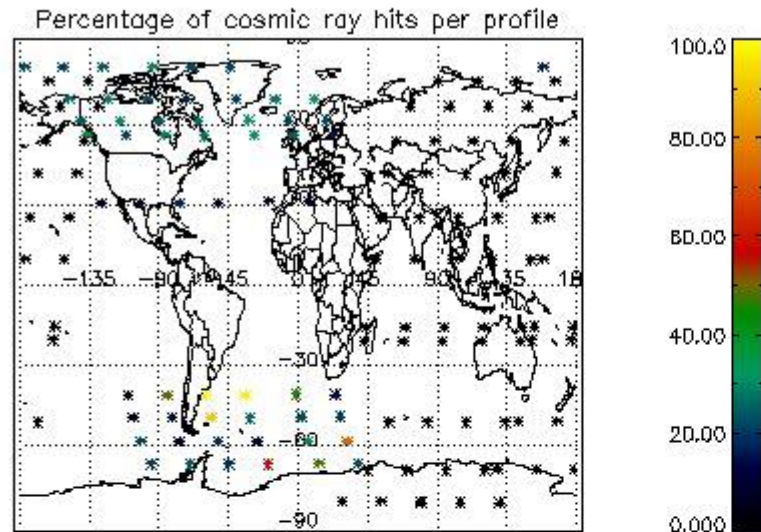
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	35.5072 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



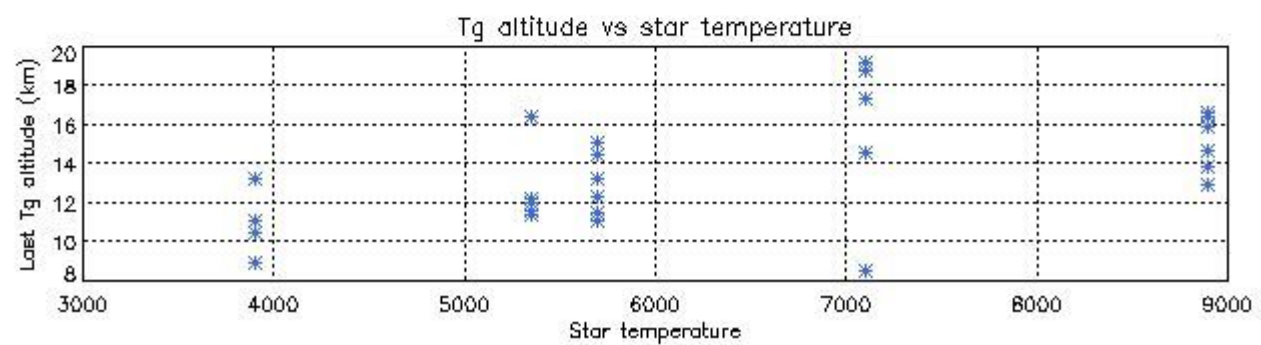
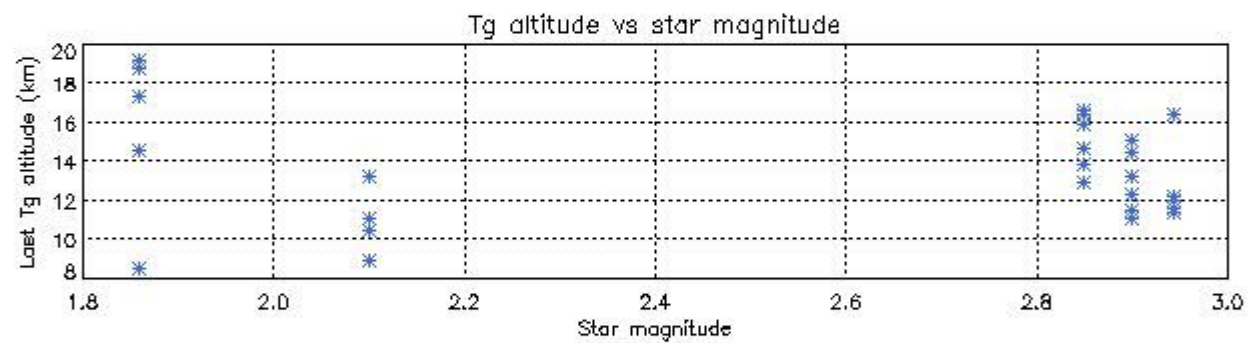
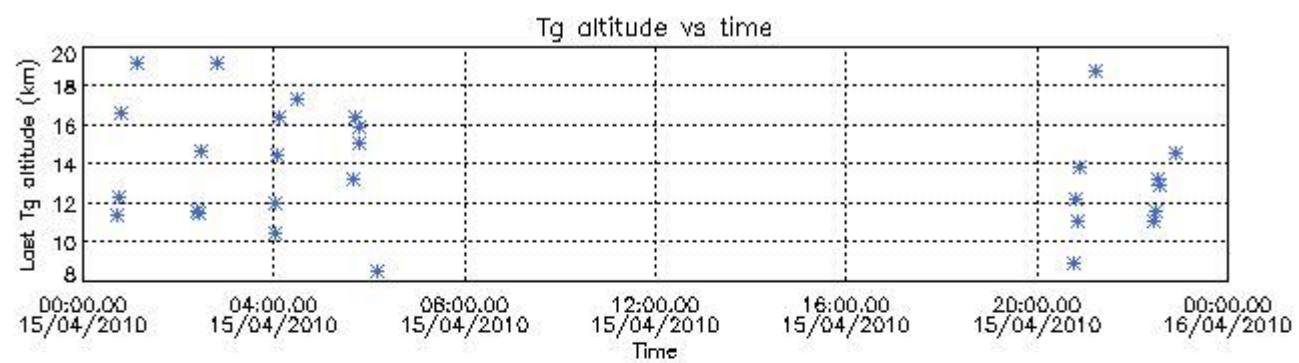
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.725	19.935	10.952
St. deviation:	2.9270	6.1993	0.55794
Maximum:	19.183	47.824	11.346
Minimum:	8.5637	3.4953	10.557
Number of data:	28.000	76.000	2.0000

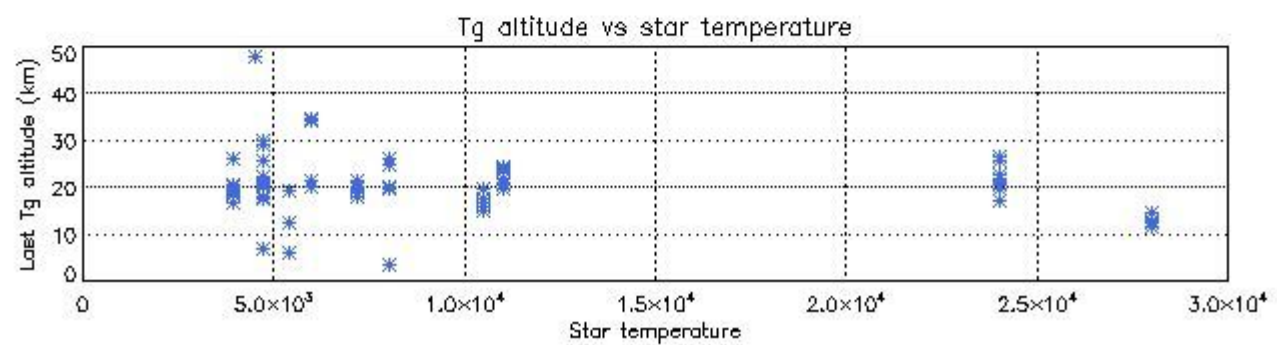
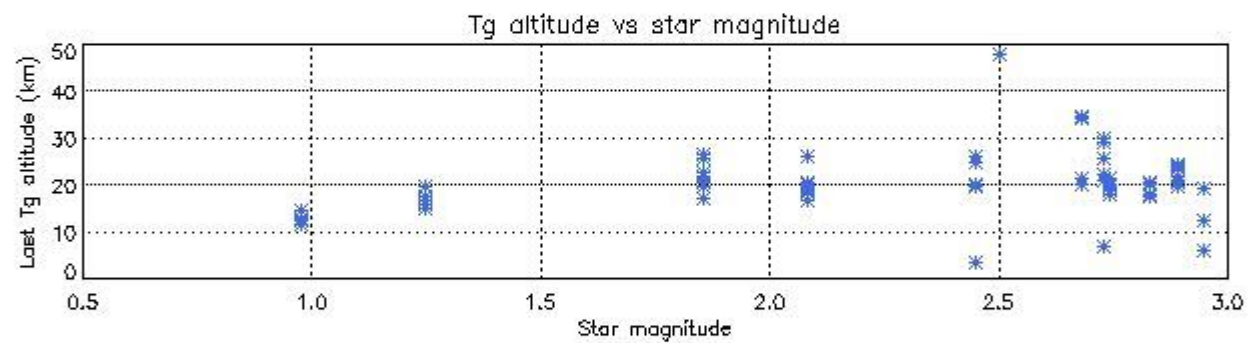
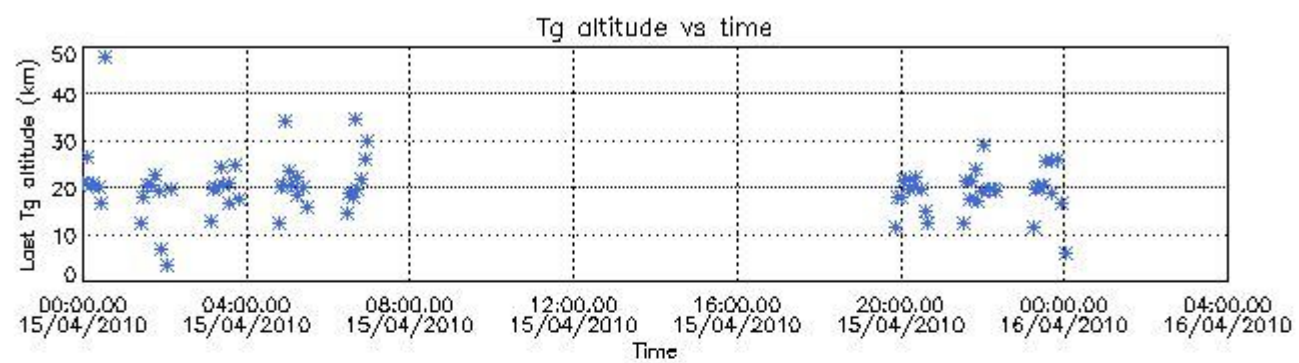
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



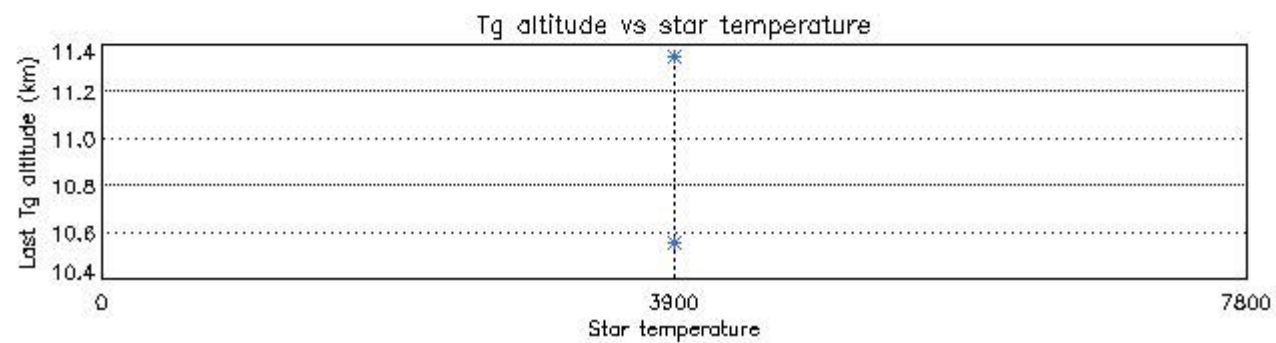
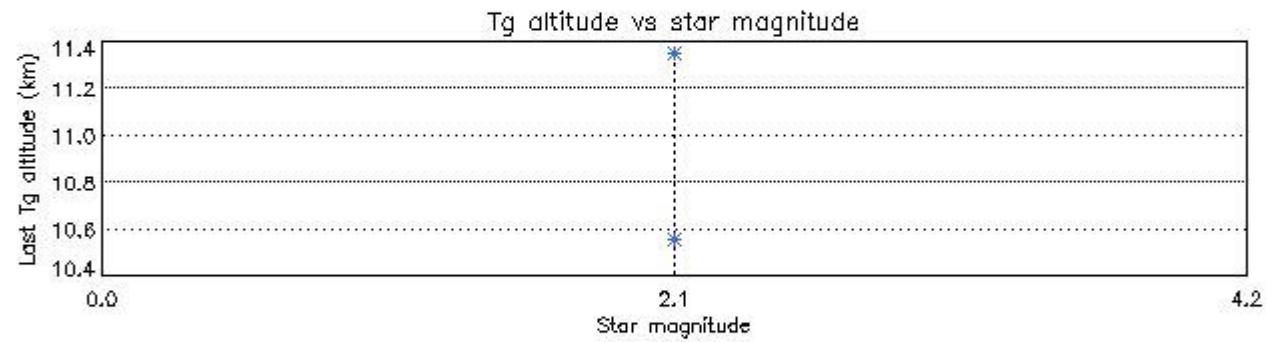
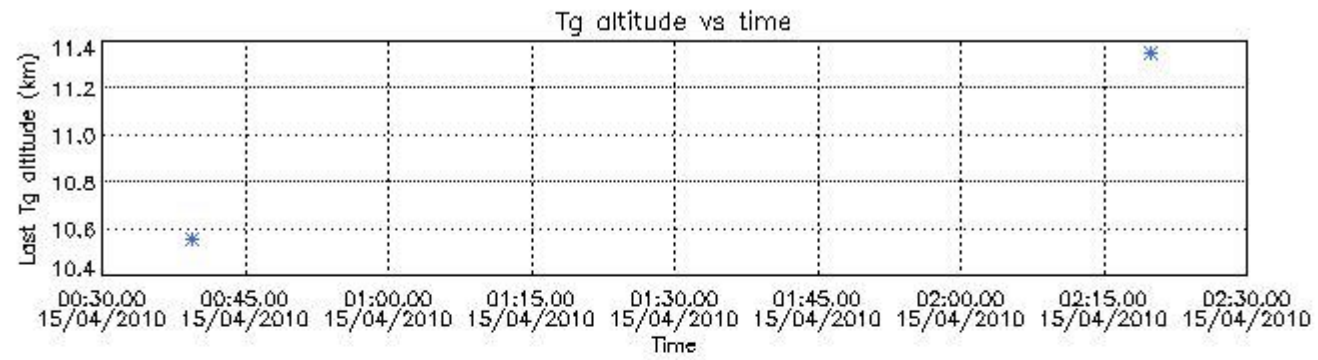
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

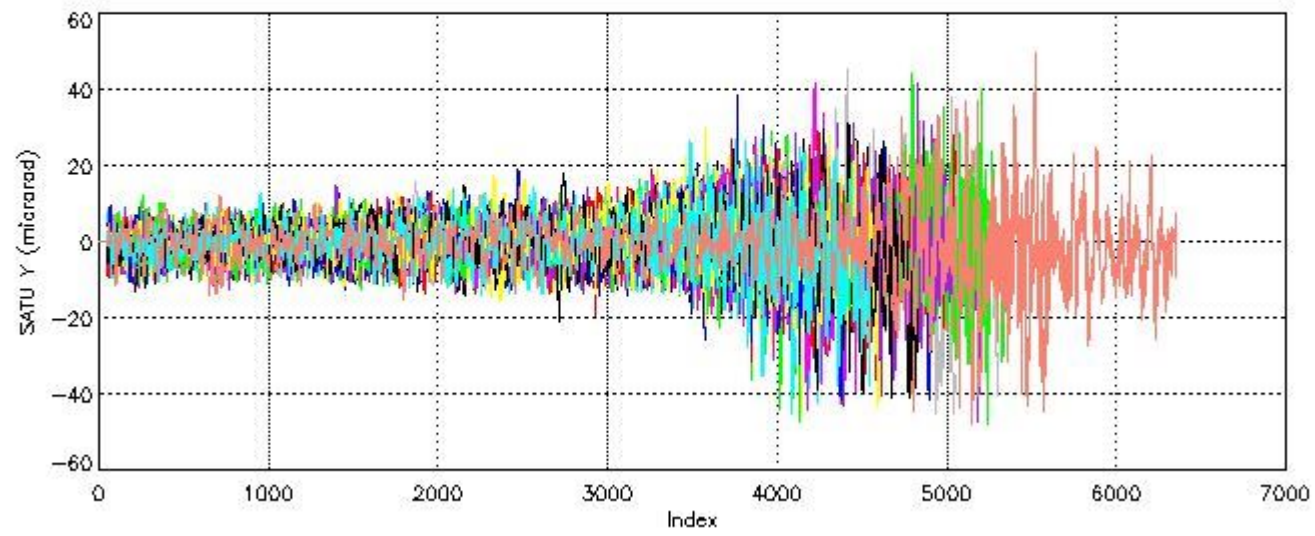
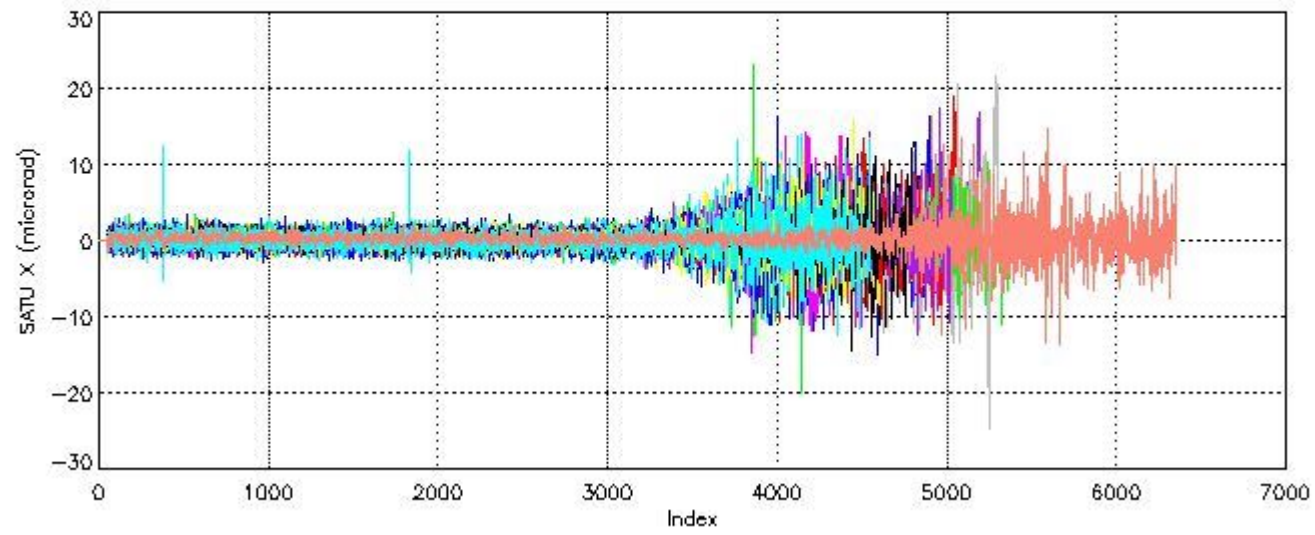


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.17433	-0.50146	0.21267	-0.56038
St. deviation:	0.62689	3.2093	0.80051	3.2680
Maximum:	12.400	12.200	6.9000	15.600
Minimum:	-5.3000	-14.000	-6.6000	-14.300

Number of data:	28700.	28700.	76100.	76100.
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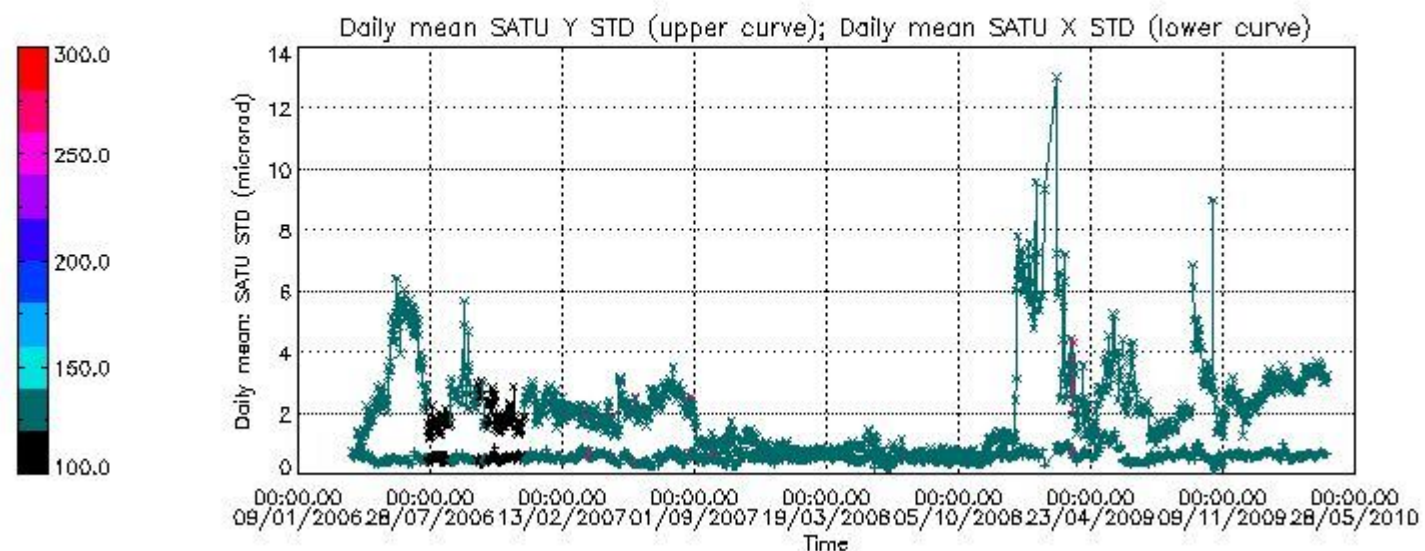
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

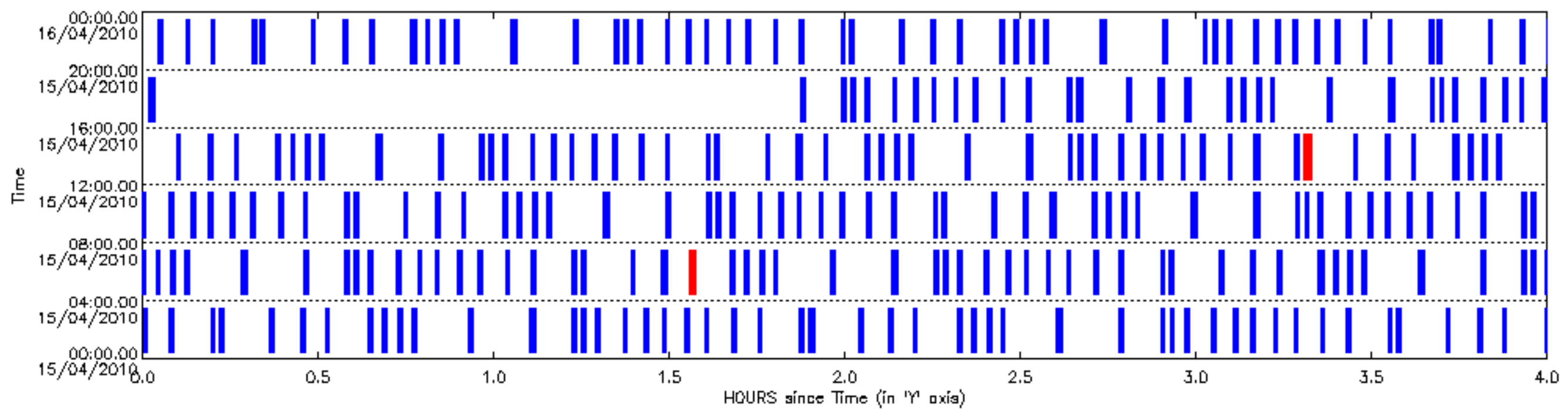
Lower curve: STD of SATU X axis

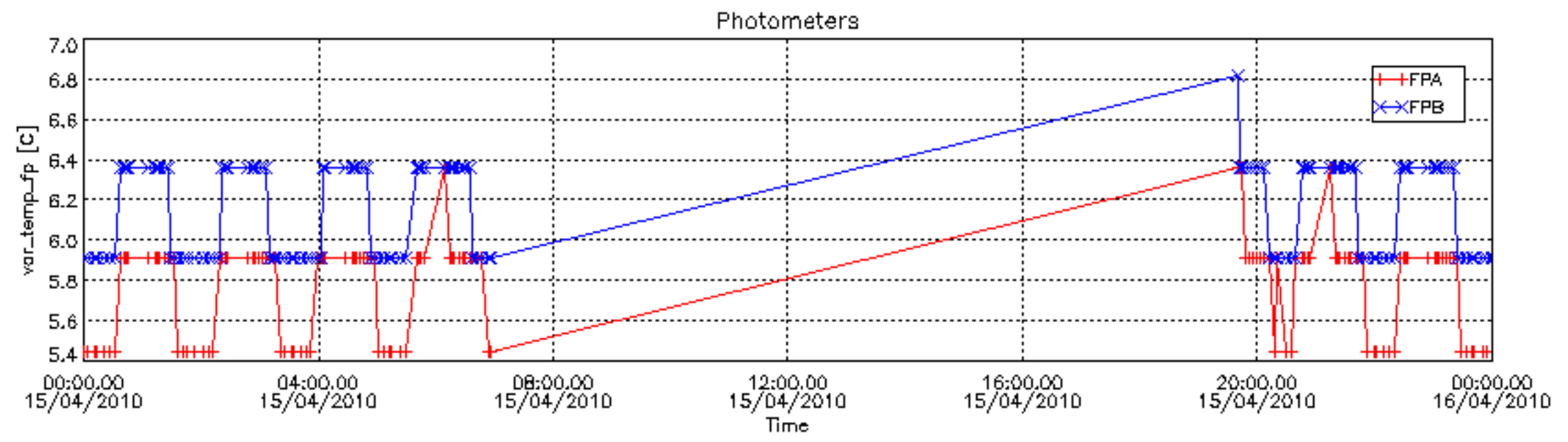
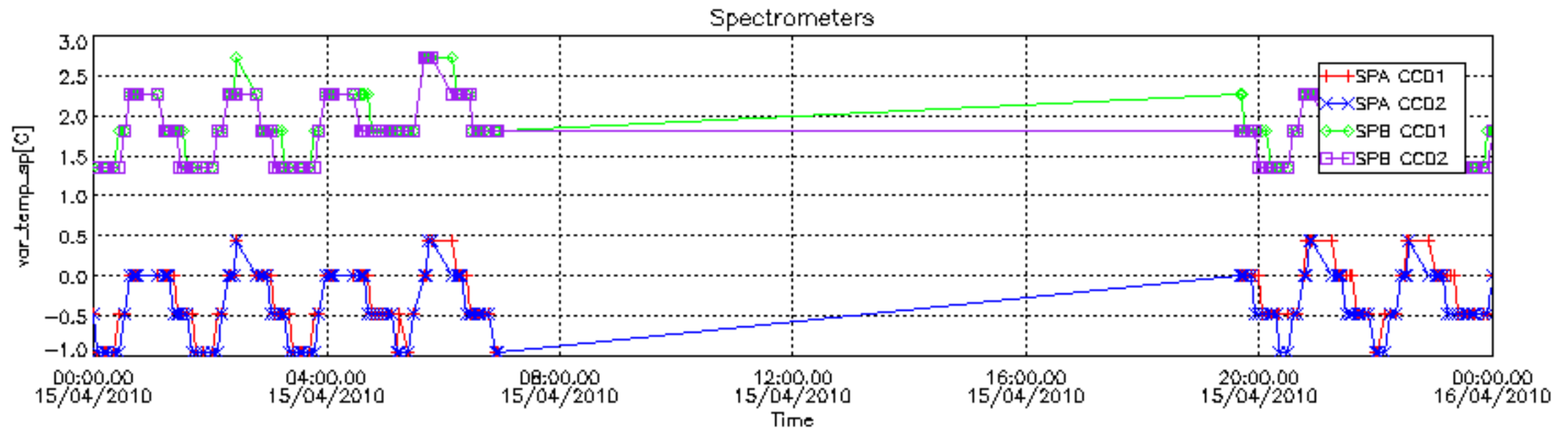


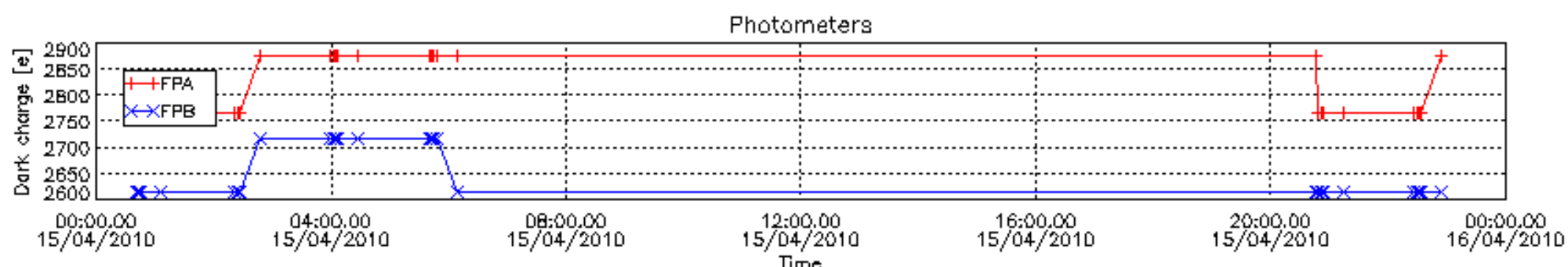
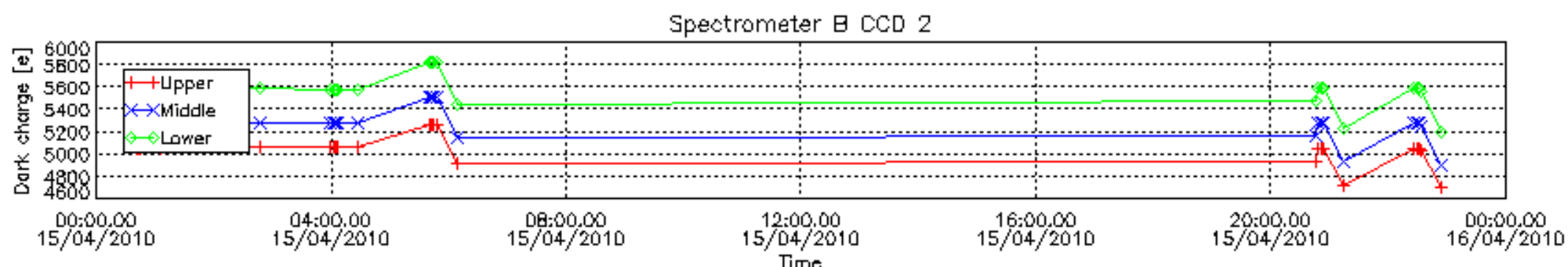
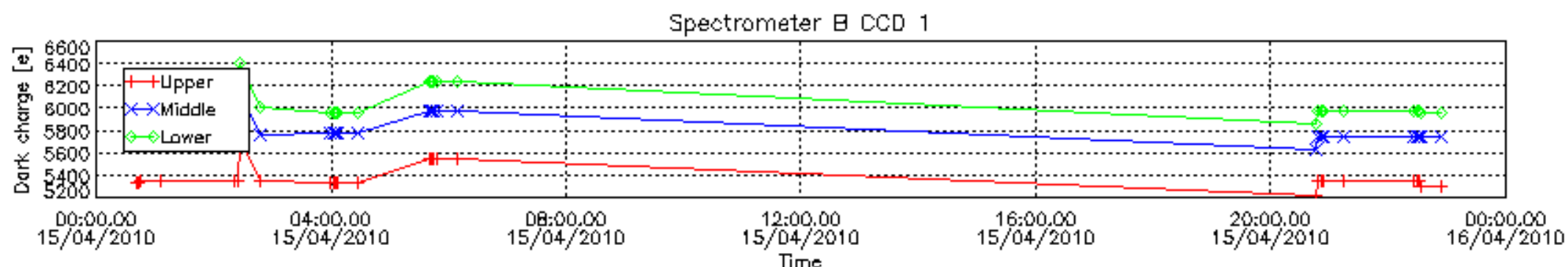
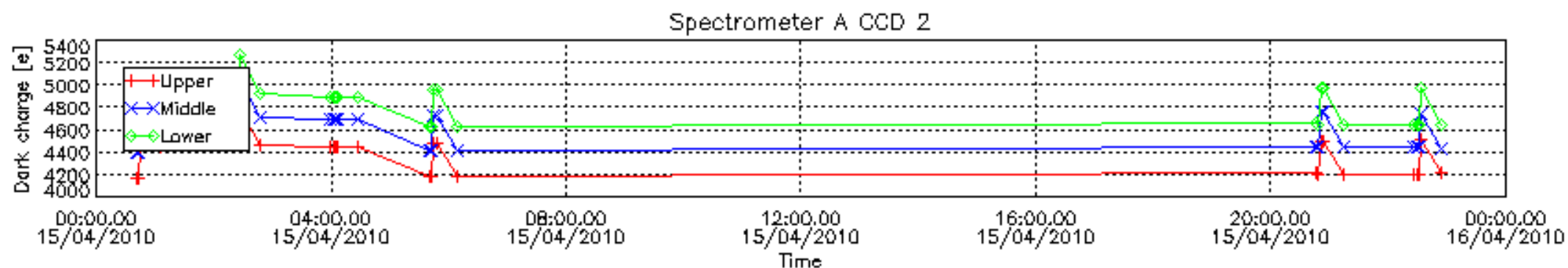
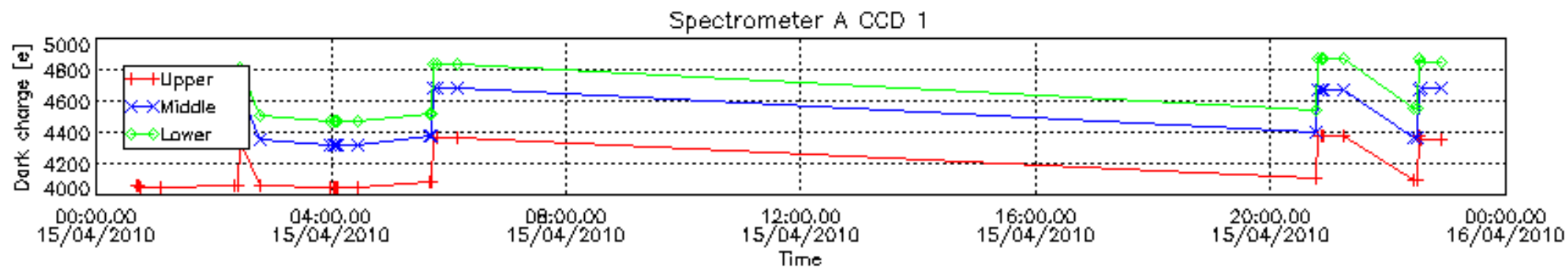
8. Auxiliary Data Files used for the production reported in section 2.4

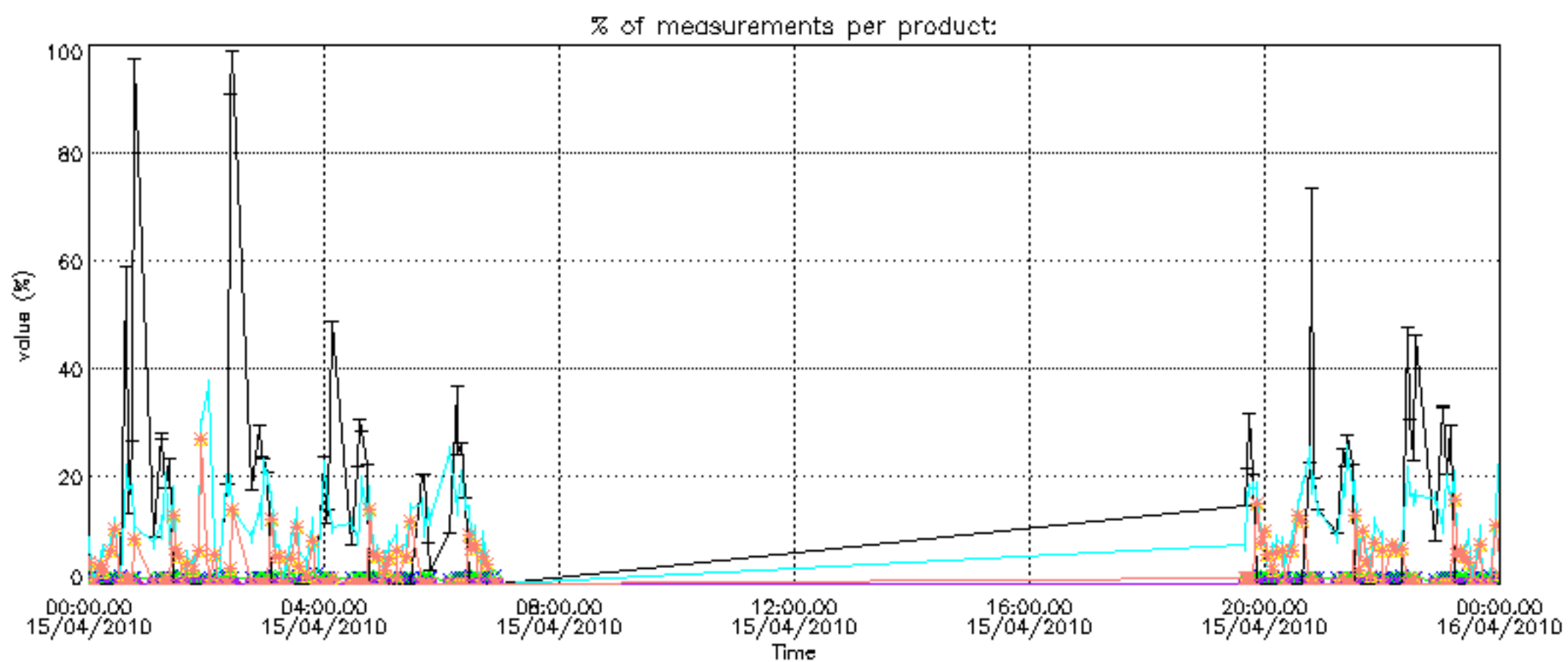
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-APR-2010 00:00:09
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100413_150709_20100411_000000_20500101_000000	1	15-APR-2010 00:00:09
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	15-APR-2010 00:00:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-APR-2010 00:00:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	15-APR-2010 00:00:09
ECMWF_FILE	AUX_ECF_AXNECM20100414_052119_20100414_210000_20100415_090000	1	15-APR-2010 00:00:09
ECMWF_FILE	AUX_ECF_AXNECM20100414_172118_20100415_030000_20100415_150000	45	15-APR-2010 03:42:48
ECMWF_FILE	AUX_ECA_AXNECM20100415_052116_20100414_210000_20100415_090000	65	15-APR-2010 05:23:24
ECMWF_FILE	AUX_ECA_AXNECM20100415_172118_20100415_090000_20100415_210000	84	15-APR-2010 19:39:59
ECMWF_FILE	AUX_ECF_AXNECM20100415_052117_20100415_150000_20100416_030000	100	15-APR-2010 20:48:15
ECMWF_FILE	AUX_ECF_AXNECM20100415_052117_20100415_210000_20100416_090000	122	15-APR-2010 22:33:52
OPTIONAL_ECMWF_FILE	MISSING	1	15-APR-2010 00:00:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100414_225957_000057382088_00330_42468_0160.N1	1	15-APR-2010 00:00:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100415_004054_000054192088_00331_42469_0161.N1	11	15-APR-2010 00:45:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100415_021632_000044632088_00332_42470_0162.N1	29	15-APR-2010 02:21:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100415_033614_000057382088_00333_42471_0163.N1	45	15-APR-2010 03:42:48
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100414_100118_20100413_184646_20100423_201258	65	15-APR-2010 05:23:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100415_193755_000038252088_00343_42481_0165.N1	84	15-APR-2010 19:39:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100415_204659_000060572088_00343_42481_0166.N1	100	15-APR-2010 20:48:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100415_223315_000057382088_00344_42482_0167.N1	122	15-APR-2010 22:33:52

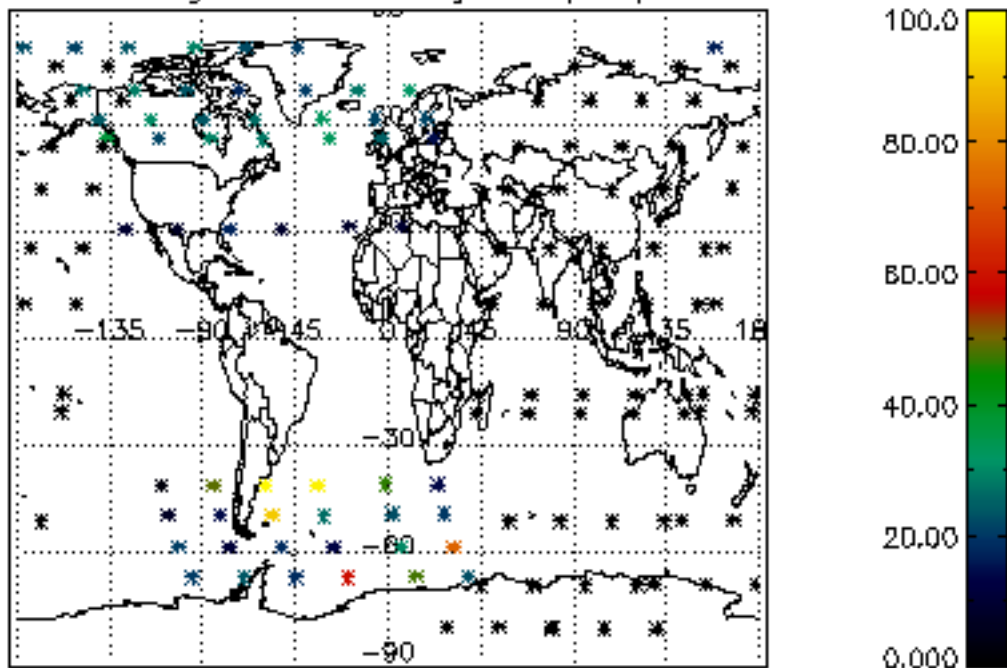




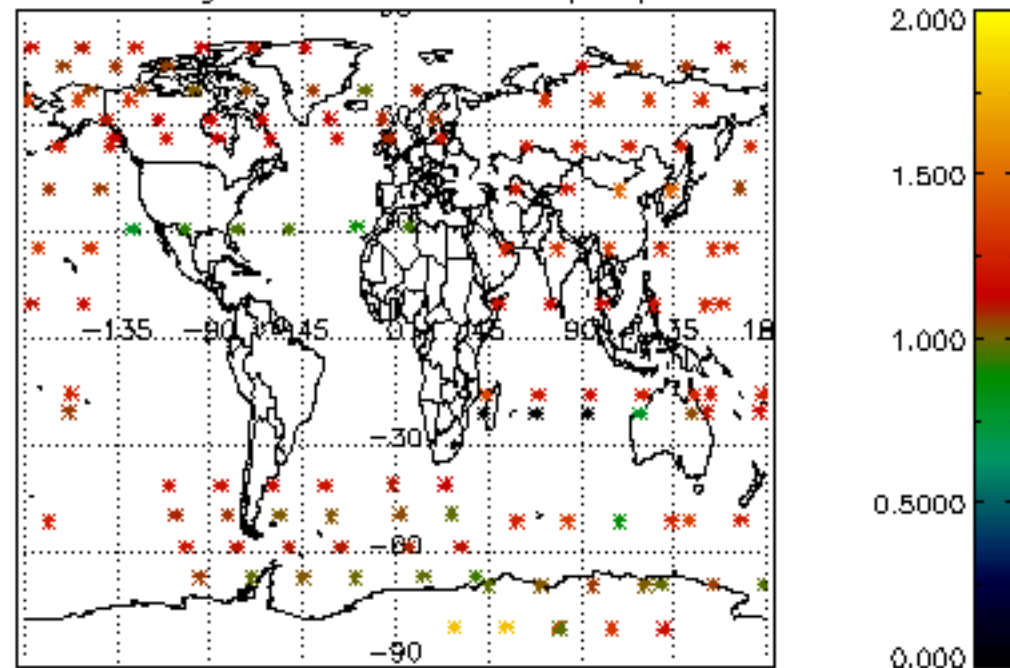




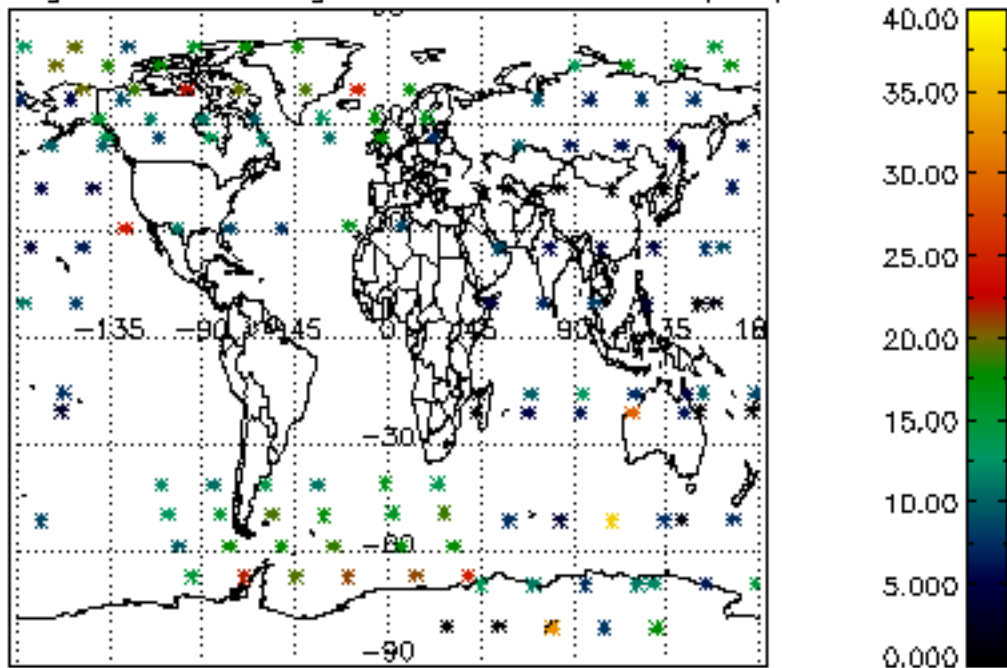
Percentage of cosmic ray hits per profile



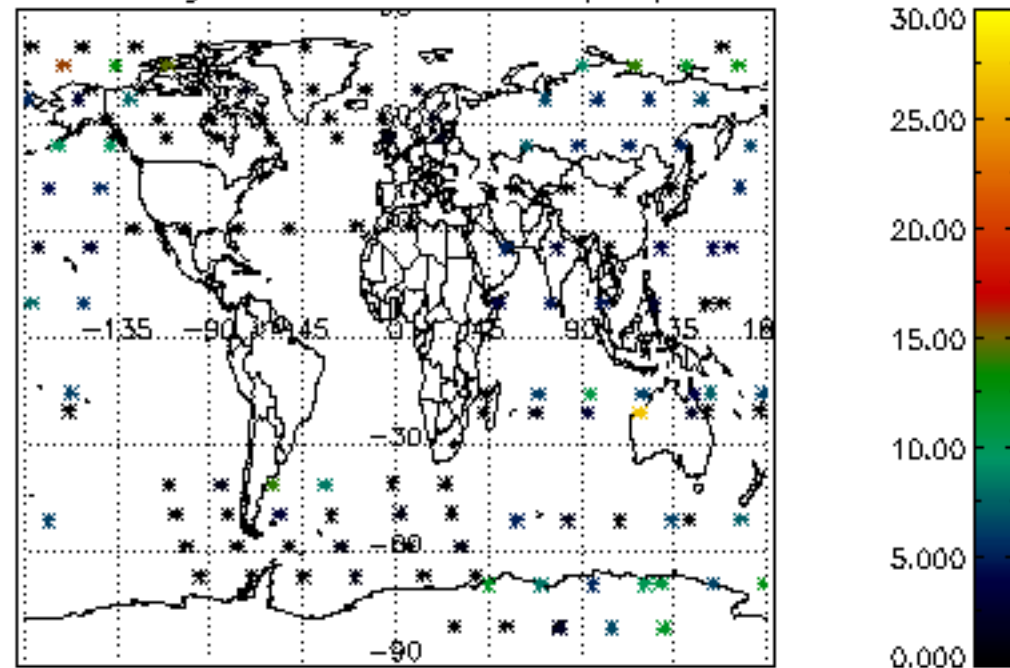
Percentage of datation errors per profile



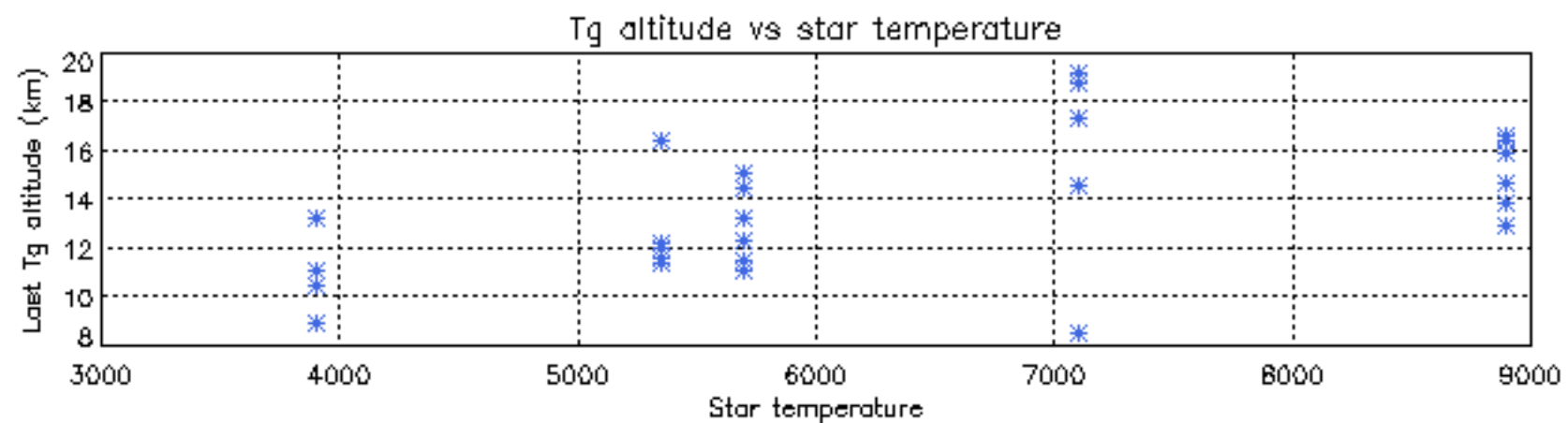
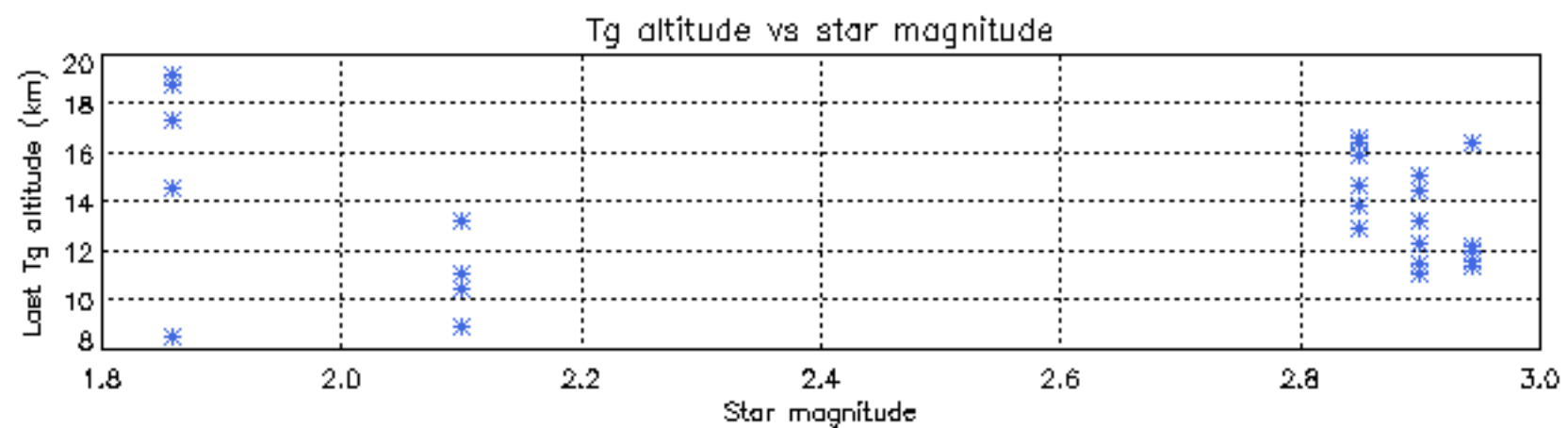
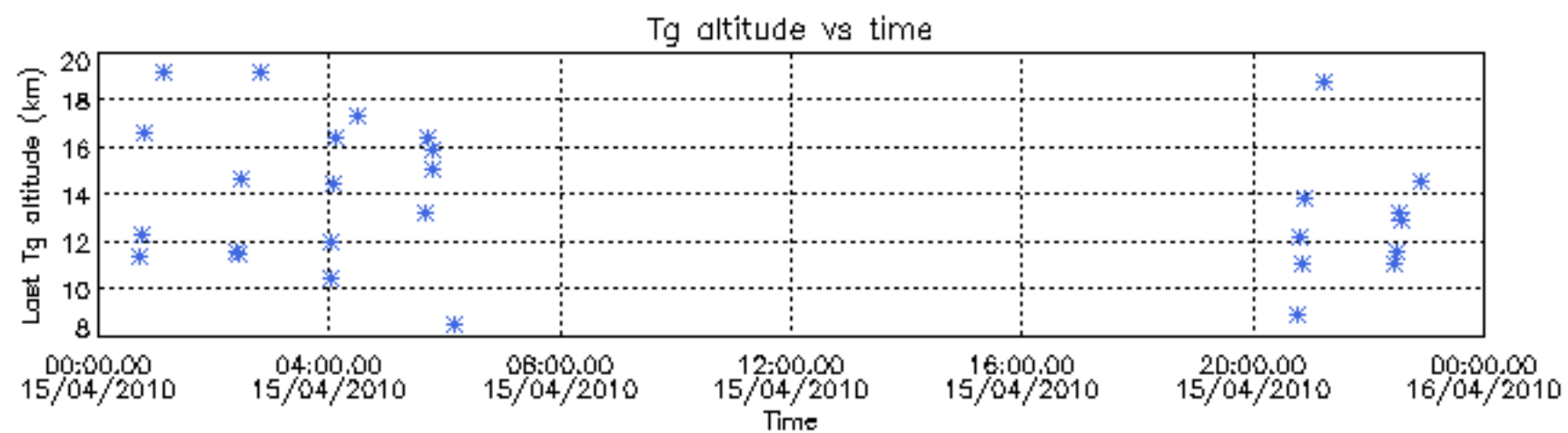
Percentage of star falling outside central band per profile



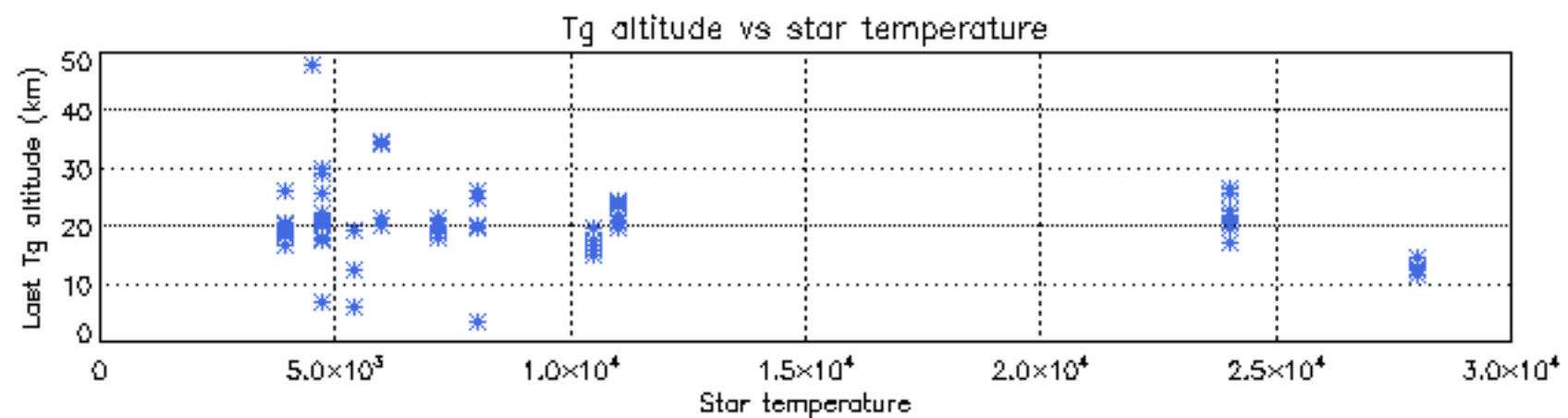
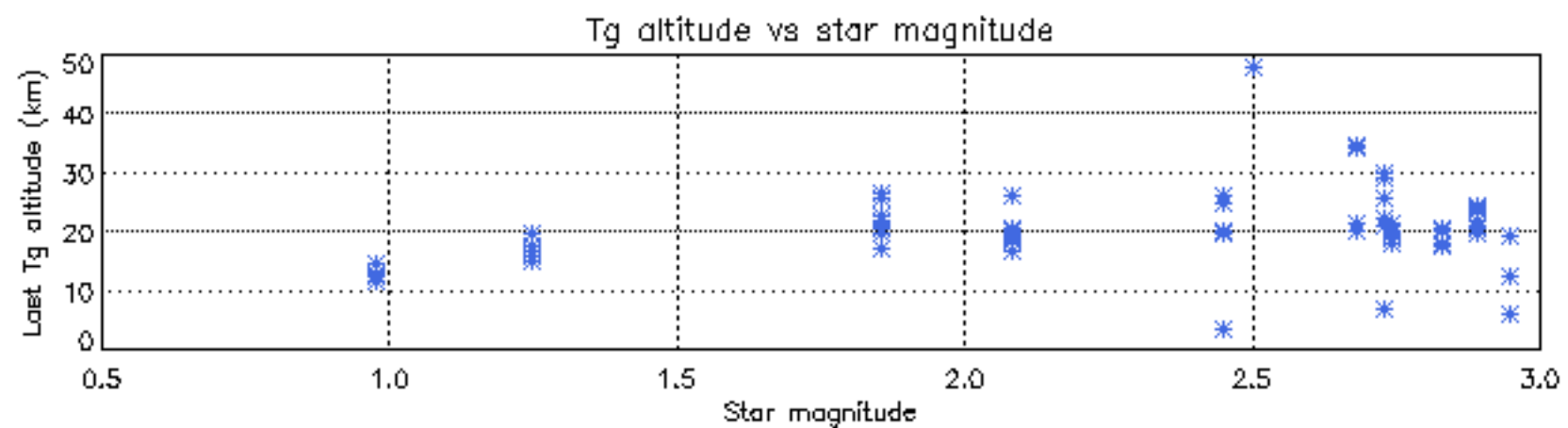
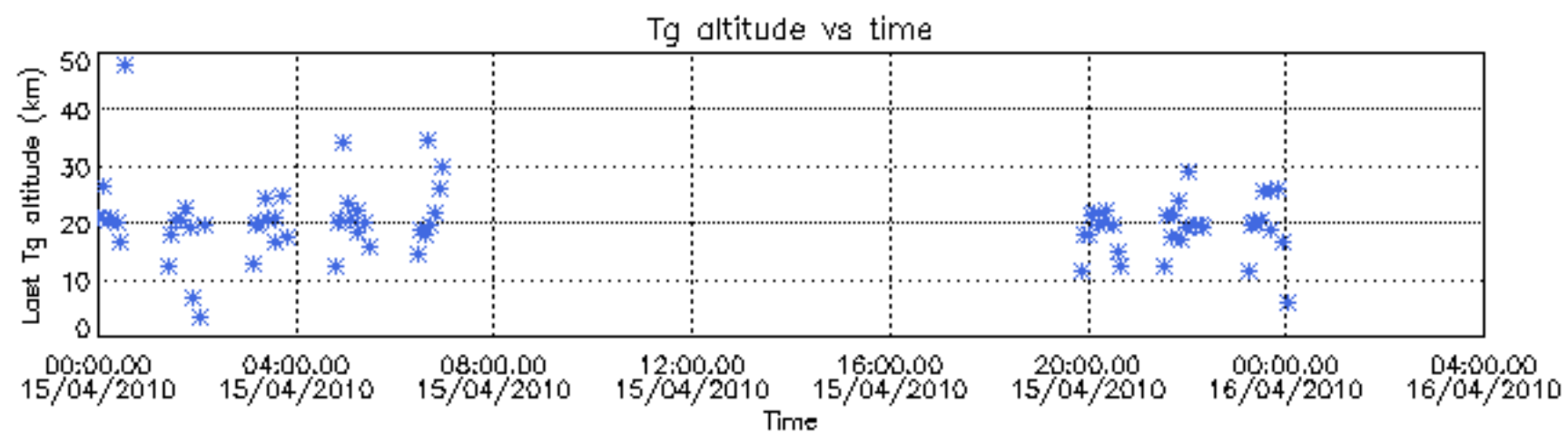
Percentage of saturation errors per profile



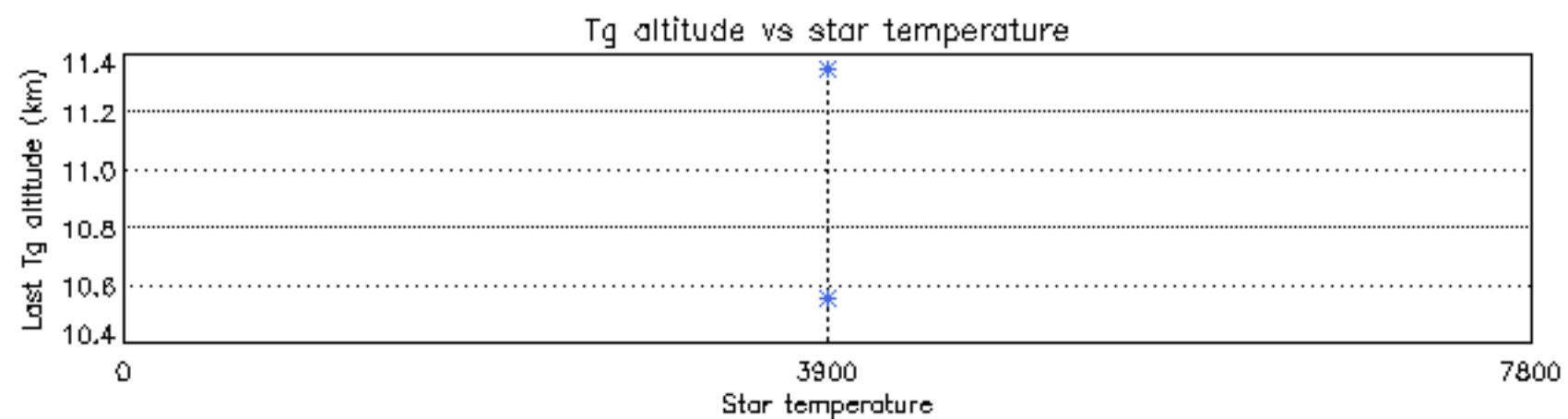
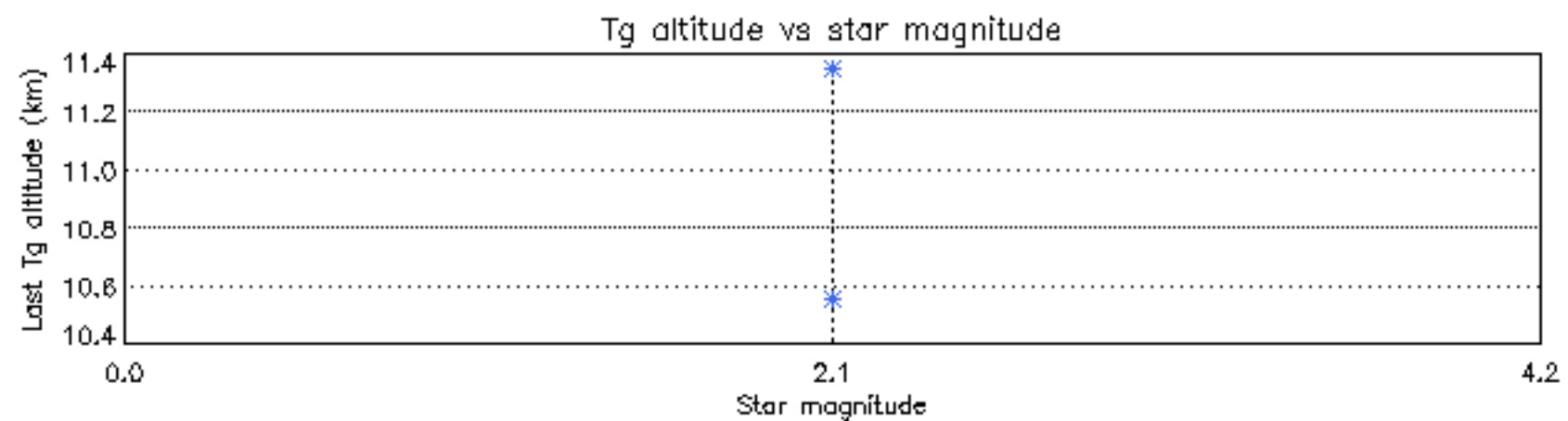
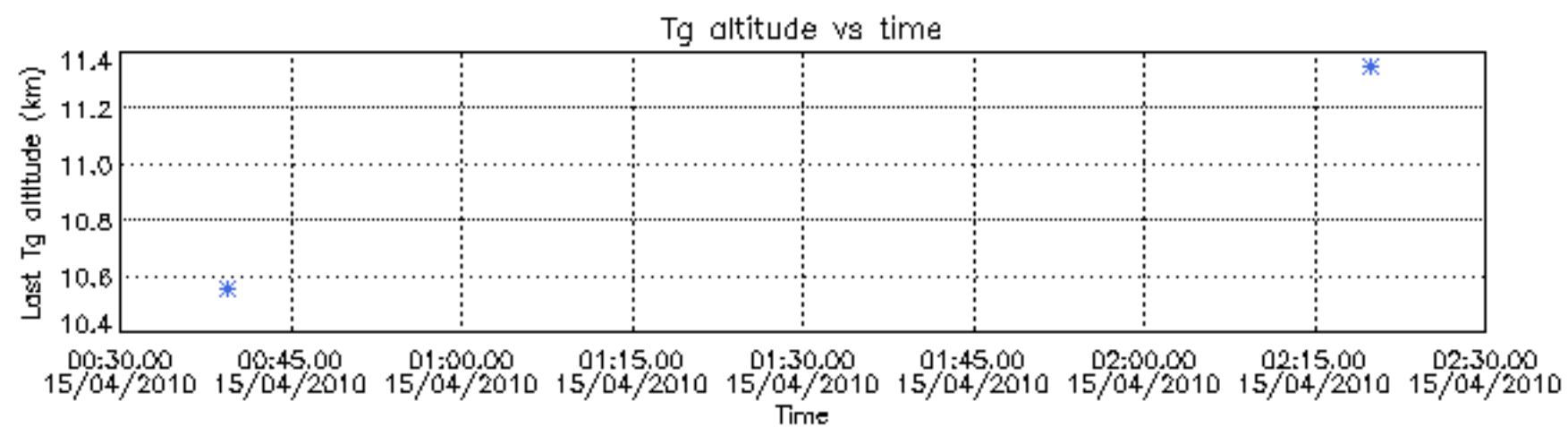
Tangent altitude at which the star is lost

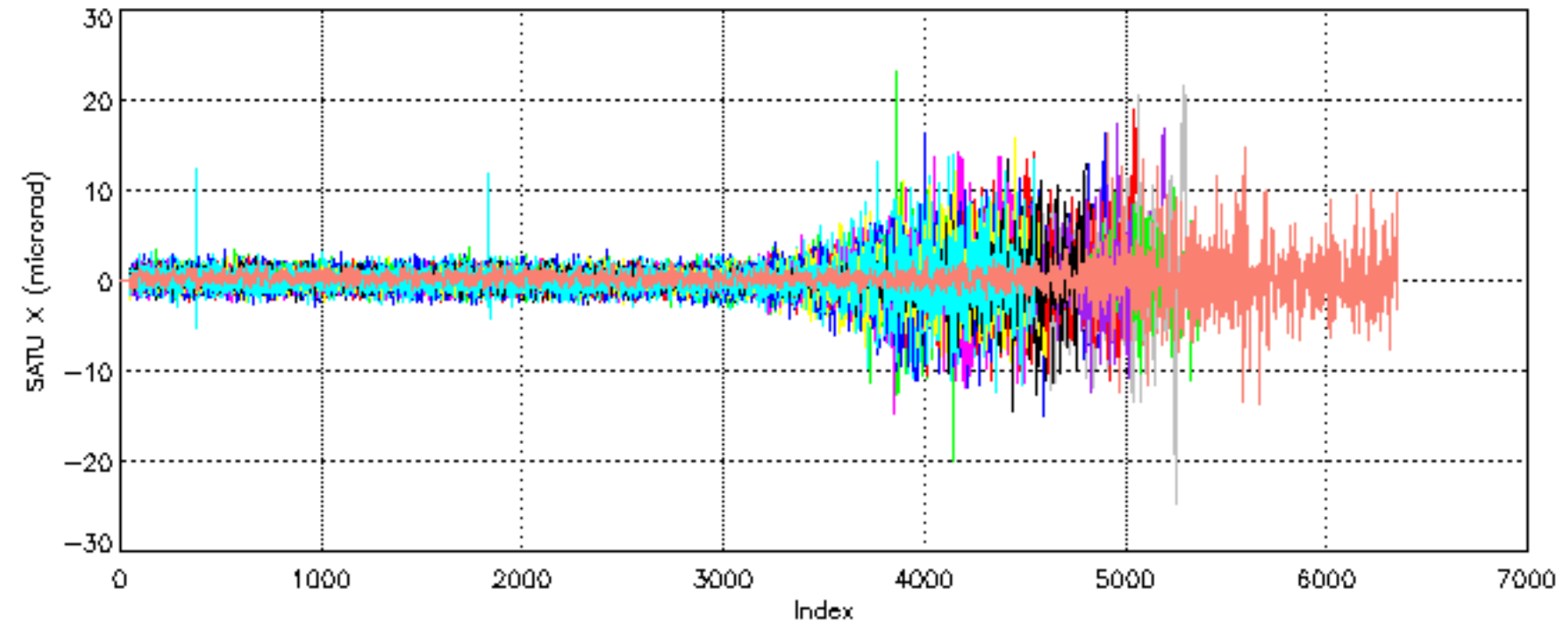


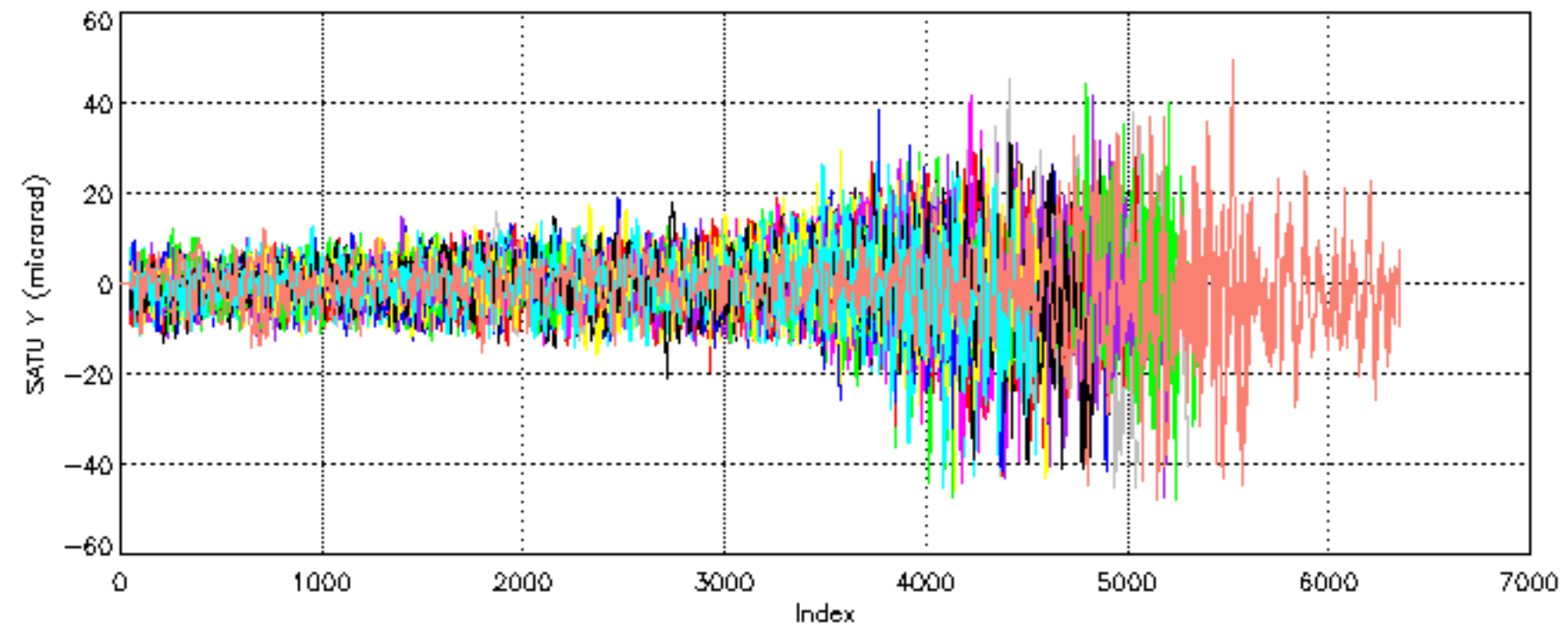
Tangent altitude at which the star is lost

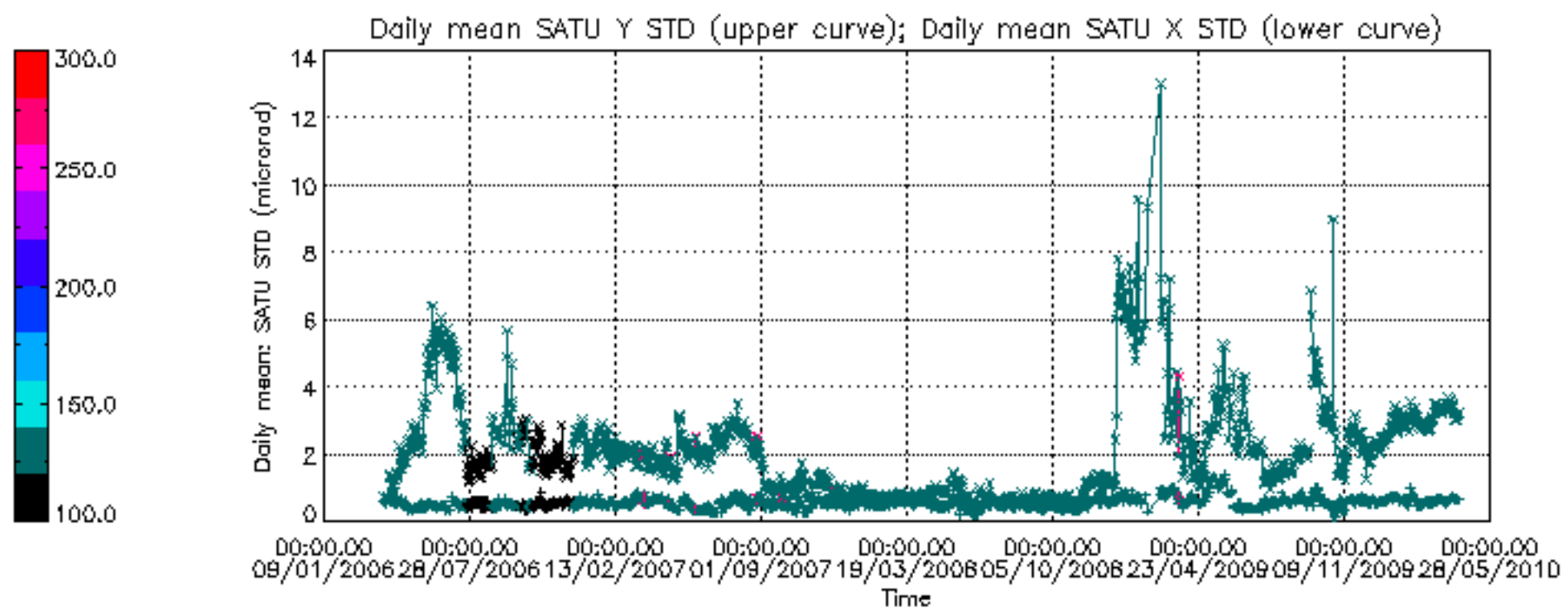


Tangent altitude at which the star is lost









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 2; 65.0; 01-APR-2010 01:38:53; Dark ; 57.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 114; 0;42270
 3; 293.1; 01-APR-2010 01:42:41; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;42270
 4; 515.4; 01-APR-2010 01:46:23; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;42270
 5; 673.7; 01-APR-2010 01:49:02; Dark ; 54.5; 4; Alp1Cen ;-0.01; 5800;occ; 109; 0;42270
 6; 838.3; 01-APR-2010 01:51:46; Dark ; 45.5; 78; Alp Lup ; 2.30; 28000;occ; 91; 0;42270
 7; 934.5; 01-APR-2010 01:53:23; Dark ; 48.0; 81; Eta Cen ; 2.36; 28000;occ; 96; 0;42270
 8; 1098.8; 01-APR-2010 01:56:07; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;42270
 9; 1459.8; 01-APR-2010 02:02:08; Dark ; 46.5; 106; 9Bet Crv ; 2.65; 5600;occ; 93; 0;42270
 10; 1577.7; 01-APR-2010 02:04:06; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;42270
 11; 1883.4; 01-APR-2010 02:09:11; Bright; 45.0; 121; 29Gam Vir ; 2.74; 7200;occ; 90; 0;42270
 12; 2160.8; 01-APR-2010 02:13:49; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;42270
 13; 2256.9; 01-APR-2010 02:15:25; Bright; 37.0; 96; 68Del Leo ; 2.56; 9300;occ; 74; 0;42270
 14; 2666.4; 01-APR-2010 02:22:15; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;42270
 15; 2848.5; 01-APR-2010 02:25:17; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;42270
 16; 2958.0; 01-APR-2010 02:27:06; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;42270
 17; 3338.3; 01-APR-2010 02:33:26; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;42270

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 2;-1836.2; 01-APR-2010 02:47:48; Bright; 43.5; 144; 18Del Cyg ; 2.86; 11000;occ; 87; 0;42270
 3;-1723.2; 01-APR-2010 02:49:41; Bright; 44.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 89; 0;42270
 4;-1601.7; 01-APR-2010 02:51:42; Bright; 45.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 90; 0;42270
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 6; -148.2; 01-APR-2010 03:15:56; Dark ; 55.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 111; 0;42270
 7; 66.3; 01-APR-2010 03:19:30; Dark ; 53.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 107; 0;42271
 8; 294.5; 01-APR-2010 03:23:18; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;42271
 9; 515.9; 01-APR-2010 03:27:00; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;42271
 10; 674.2; 01-APR-2010 03:29:38; Dark ; 52.5; 4; Alp1Cen ;-0.01; 5800;occ; 105; 0;42271
 11; 839.0; 01-APR-2010 03:32:23; Dark ; 44.5; 78; Alp Lup ; 2.30; 28000;occ; 89; 0;42271
 12; 935.3; 01-APR-2010 03:33:59; Dark ; 50.0; 81; Eta Cen ; 2.36; 28000;occ; 100; 0;42271
 13; 1099.5; 01-APR-2010 03:36:44; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;42271
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 16; 1883.1; 01-APR-2010 03:49:47; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;42271
 17; 2160.7; 01-APR-2010 03:54:25; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;42271
 18; 2257.1; 01-APR-2010 03:56:01; Bright; 37.0; 96; 68Del Leo ; 2.56; 9300;occ; 74; 0;42271
 19; 2666.3; 01-APR-2010 04:02:50; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;42271
 20; 2848.4; 01-APR-2010 04:05:52; Bright; 38.0; 87; 64Gam UMa ; 2.43; 11000;occ; 76; 0;42271
 21; 2957.9; 01-APR-2010 04:07:42; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;42271
 22; 3338.0; 01-APR-2010 04:14:02; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;42271

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 2;-1836.3; 01-APR-2010 04:28:24; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;42271
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 7; 67.5; 01-APR-2010 05:00:08; Dark ; 55.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 111; 0;42272
 8; 295.5; 01-APR-2010 05:03:56; Dark ; 53.0; 40; The Sco ; 1.86; 7100;occ; 106; 0;42272
 9; 516.4; 01-APR-2010 05:07:36; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;42272
 10; 674.7; 01-APR-2010 05:10:15; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;42272
 11; 839.6; 01-APR-2010 05:13:00; Dark ; 44.5; 78; Alp Lup ; 2.30; 28000;occ; 89; 0;42272
 12; 935.6; 01-APR-2010 05:14:36; Dark ; 47.0; 81; Eta Cen ; 2.36; 28000;occ; 94; 0;42272
 13; 1100.1; 01-APR-2010 05:17:20; Dark ; 52.5; 54; 5The Cen ; 2.06; 4500;occ; 105; 0;42272
 14; 1460.3; 01-APR-2010 05:23:20; Dark ; 46.5; 106; 9Bet Crv ; 2.65; 5600;occ; 93; 0;42272
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 18; 2160.5; 01-APR-2010 05:35:01; Bright; 39.5; 62; 94Bet Leo ; 2.14; 9700;occ; 79; 0;42272
 19; 2257.0; 01-APR-2010 05:36:37; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;42272
 20; 2666.3; 01-APR-2010 05:43:26; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;42272
 21; 2848.4; 01-APR-2010 05:46:28; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;42272
 22; 2958.0; 01-APR-2010 05:48:18; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;42272
 23; 3337.6; 01-APR-2010 05:54:38; Bright; 57.5; 60; 7Bet UMi ; 2.08; 3950;occ; 115; 0;42272

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 2; 1104.6; 01-APR-2010 20:22:48; Dark ; 50.0; 54; 5The Cen ; 2.06; 4500;occ; 100; 0;42281

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4; 1579.6; 01-APR-2010 20:30:43; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;42281
5; 1688.0; 01-APR-2010 20:32:31; Dark ; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;42281
6; 1882.1; 01-APR-2010 20:35:46; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;42281
7; 2159.5; 01-APR-2010 20:40:23; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;42281
8; 2665.5; 01-APR-2010 20:48:49; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;42281
9; 2846.1; 01-APR-2010 20:51:49; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;42281
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14; 4312.8; 01-APR-2010 21:16:16; Bright; 46.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 93; 0;42281
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3; 80.8; 01-APR-2010 21:46:20; Dark ; 56.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 112; 0;42282
4; 306.4; 01-APR-2010 21:50:06; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;42282
5; 521.6; 01-APR-2010 21:53:41; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;42282
6; 679.4; 01-APR-2010 21:56:19; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;42282
7; 845.9; 01-APR-2010 21:59:05; Dark ; 48.0; 78; Alp Lup ; 2.30; 28000;occ; 96; 0;42282
8; 942.1; 01-APR-2010 22:00:41; Dark ; 48.0; 81; Eta Cen ; 2.36; 28000;occ; 96; 0;42282
9; 1105.1; 01-APR-2010 22:03:24; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;42282
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22; 4435.4; 01-APR-2010 22:58:55; Bright; 44.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 88; 0;42282
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3; 82.4; 01-APR-2010 23:26:58; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;42283
4; 307.6; 01-APR-2010 23:30:43; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;42283
5; 522.1; 01-APR-2010 23:34:17; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;42283
6; 680.0; 01-APR-2010 23:36:55; Dark ; 44.5; 4; Alp1Cen ; -0.01; 5800;occ; 89; 0;42283
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8; 942.9; 01-APR-2010 23:41:18; Dark ; 46.5; 81; Eta Cen ; 2.36; 28000;occ; 93; 0;42283
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2; -1836.7; 01-APR-2010 06:08:59; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;42272

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 4; -1601.7; 01-APR-2010 06:12:54; Bright; 53.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 106; 0;42272
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 6; -145.3; 01-APR-2010 06:37:11; Dark ; 59.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 119; 0;42272
 7; 69.4; 01-APR-2010 06:40:45; Dark ; 53.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 107; 0;42273
 8; 296.4; 01-APR-2010 06:44:32; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;42273
 9; 517.0; 01-APR-2010 06:48:13; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;42273
 10; 675.4; 01-APR-2010 06:50:51; Dark ; 48.5; 4; Alp1Cen ; -0.01; 5800;occ; 97; 0;42273
 11; 840.1; 01-APR-2010 06:53:36; Dark ; 47.0; 78; Alp Lup ; 2.30; 28000;occ; 94; 0;42273
 12; 936.4; 01-APR-2010 06:55:12; Dark ; 50.0; 81; Eta Cen ; 2.36; 28000;occ; 100; 0;42273
 13; 1100.6; 01-APR-2010 06:57:57; Dark ; 53.5; 54; 5The Cen ; 2.06; 4500;occ; 107; 0;42273
 14; 1460.4; 01-APR-2010 07:03:56; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0;42273
 15; 1578.5; 01-APR-2010 07:05:55; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;42273
 16; 1688.4; 01-APR-2010 07:07:44; Dark ; 28.5; 15; 67Alp Vir ; 0.98; 28000;occ; 57; 0;42273

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 2; 1883.2; 01-APR-2010 07:10:59; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;42273
 3; 2160.3; 01-APR-2010 07:15:36; Bright; 40.5; 62; 94Bet Leo ; 2.14; 9700;occ; 80; 0;42273
 4; 2257.0; 01-APR-2010 07:17:13; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;42273
 5; 2666.2; 01-APR-2010 07:24:02; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;42273
 6; 2848.1; 01-APR-2010 07:27:04; Bright; 40.0; 87; 64Gam UMa ; 2.43; 11000;occ; 80; 0;42273
 7; 2957.7; 01-APR-2010 07:28:54; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;42273
 8; 3337.3; 01-APR-2010 07:35:13; Bright; 58.0; 60; 7Bet UMi ; 2.08; 3950;occ; 116; 0;42273
 9; 3902.0; 01-APR-2010 07:44:38; Bright; 54.0; 89; 5Alp Cep ; 2.45; 8000;occ; 108; 0;42273
 10; 4199.1; 01-APR-2010 07:49:35; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;42273
 11; 4312.8; 01-APR-2010 07:51:29; Bright; 44.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 89; 0;42273
 12; 4434.4; 01-APR-2010 07:53:30; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;42273
 13; 5723.8; 01-APR-2010 08:15:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42273
 14; 5891.9; 01-APR-2010 08:17:48; Dark ; 55.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 111; 0;42273
 15; 6106.7; 01-APR-2010 08:21:23; Dark ; 51.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 103; 0;42274
 16; 6333.5; 01-APR-2010 08:25:09; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;42274
 17; 6553.4; 01-APR-2010 08:28:49; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;42274
 18; 6711.8; 01-APR-2010 08:31:28; Dark ; 53.5; 4; Alp1Cen ; -0.01; 5800;occ; 107; 0;42274
 19; 6876.8; 01-APR-2010 08:34:13; Dark ; 48.5; 78; Alp Lup ; 2.30; 28000;occ; 97; 0;42274
 20; 6972.9; 01-APR-2010 08:35:49; Dark ; 47.0; 81; Eta Cen ; 2.36; 28000;occ; 94; 0;42274
 21; 7136.9; 01-APR-2010 08:38:33; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;42274
 22; 7496.6; 01-APR-2010 08:44:33; Dark ; 45.5; 106; 9Bet Crv ; 2.65; 5600;occ; 91; 0;42274
 23; 7614.5; 01-APR-2010 08:46:30; Dark ; 43.0; 100; 4Gam Crv ; 2.58; 13100;occ; 86; 0;42274
 24; 7724.3; 01-APR-2010 08:48:20; Dark ; 35.5; 15; 67Alp Vir ; 0.98; 28000;occ; 71; 0;42274

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 2; 1882.9; 01-APR-2010 08:51:35; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;42274
 3; 2160.4; 01-APR-2010 08:56:12; Bright; 40.5; 62; 94Bet Leo ; 2.14; 9700;occ; 81; 0;42274
 4; 2666.1; 01-APR-2010 09:04:38; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;42274
 5; 2847.7; 01-APR-2010 09:07:40; Bright; 39.0; 87; 64Gam UMa ; 2.43; 11000;occ; 78; 0;42274
 6; 2957.7; 01-APR-2010 09:09:30; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;42274
 7; 3337.1; 01-APR-2010 09:15:49; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;42274
 8; 3901.7; 01-APR-2010 09:25:14; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;42274
 9; 4199.3; 01-APR-2010 09:30:11; Bright; 48.0; 144; 18Del Cyg ; 2.86; 11000;occ; 96; 0;42274
 10; 4312.9; 01-APR-2010 09:32:05; Bright; 46.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 93; 0;42274
 11; 4434.5; 01-APR-2010 09:34:06; Bright; 44.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 88; 0;42274
 12; 5724.6; 01-APR-2010 09:55:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42274
 13; 5893.5; 01-APR-2010 09:58:25; Dark ; 57.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 114; 0;42274
 14; 6107.5; 01-APR-2010 10:01:59; Dark ; 54.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 109; 0;42275
 15; 6334.8; 01-APR-2010 10:05:47; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;42275
 16; 6553.9; 01-APR-2010 10:09:26; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;42275
 17; 6712.3; 01-APR-2010 10:12:04; Dark ; 51.0; 4; Alp1Cen ; -0.01; 5800;occ; 102; 0;42275
 18; 6877.5; 01-APR-2010 10:14:49; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;42275
 19; 6973.6; 01-APR-2010 10:16:26; Dark ; 50.0; 81; Eta Cen ; 2.36; 28000;occ; 100; 0;42275
 20; 7137.3; 01-APR-2010 10:19:09; Dark ; 58.0; 54; 5The Cen ; 2.06; 4500;occ; 116; 0;42275
 21; 7497.0; 01-APR-2010 10:25:09; Dark ; 47.5; 106; 9Bet Crv ; 2.65; 5600;occ; 95; 0;42275
 22; 7614.6; 01-APR-2010 10:27:07; Dark ; 43.0; 100; 4Gam Crv ; 2.58; 13100;occ; 86; 0;42275
 23; 7724.2; 01-APR-2010 10:28:56; Dark ; 9.0; 15; 67Alp Vir ; 0.98; 28000;occ; 18; 0;42275

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 2; 1882.6; 01-APR-2010 10:32:10; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;42275
 3; 2160.3; 01-APR-2010 10:36:48; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;42275
 4; 2666.1; 01-APR-2010 10:45:14; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;42275


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5; 2847.3; 01-APR-2010 10:48:15; Bright; 39.0; 87; 64Gam UMa ; 2.43; 11000;occ; 78; 0;42275
6; 2957.7; 01-APR-2010 10:50:06; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;42275
7; 3336.6; 01-APR-2010 10:56:24; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;42275
8; 3901.8; 01-APR-2010 11:05:50; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;42275
9; 4199.0; 01-APR-2010 11:10:47; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;42275
10; 4312.8; 01-APR-2010 11:12:41; Bright; 7.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 15; 0;42275
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2; -1601.1; 01-APR-2010 11:14:43; Bright; 60.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 120; 0;42275
3; -310.4; 01-APR-2010 11:36:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42275
4; -141.2; 01-APR-2010 11:39:02; Dark ; 56.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 113; 0;42275
5; 73.1; 01-APR-2010 11:42:37; Dark ; 56.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 112; 0;42276
6; 300.1; 01-APR-2010 11:46:24; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;42276
7; 518.6; 01-APR-2010 11:50:02; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;42276
8; 676.5; 01-APR-2010 11:52:40; Dark ; 53.0; 4; Alp1Cen ;-0.01; 5800;occ; 106; 0;42276
9; 841.9; 01-APR-2010 11:55:26; Dark ; 46.0; 78; Alp Lup ; 2.30; 28000;occ; 92; 0;42276
10; 938.3; 01-APR-2010 11:57:02; Dark ; 47.0; 81; Eta Cen ; 2.36; 28000;occ; 94; 0;42276
11; 1101.8; 01-APR-2010 11:59:46; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;42276
12; 1461.2; 01-APR-2010 12:05:45; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0;42276
13; 1578.4; 01-APR-2010 12:07:42; Dark ; 43.0; 100; 4Gam Crv ; 2.58; 13100;occ; 86; 0;42276
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2; 1688.0; 01-APR-2010 12:09:32; Dark ; 42.0; 15; 67Alp Vir ; 0.98; 28000;occ; 84; 0;42276
3; 1883.0; 01-APR-2010 12:12:47; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;42276
4; 2160.3; 01-APR-2010 12:17:24; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;42276
5; 2665.9; 01-APR-2010 12:25:50; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;42276
6; 2847.2; 01-APR-2010 12:28:51; Bright; 39.5; 87; 64Gam UMa ; 2.43; 11000;occ; 79; 0;42276
7; 2957.6; 01-APR-2010 12:30:41; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;42276
8; 3336.3; 01-APR-2010 12:37:00; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;42276
9; 3901.8; 01-APR-2010 12:46:25; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;42276
10; 4198.6; 01-APR-2010 12:51:22; Bright; 55.5; 144; 18Del Cyg ; 2.86; 11000;occ; 111; 0;42276
11; 4312.6; 01-APR-2010 12:53:16; Bright; 46.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 93; 0;42276
12; 4434.9; 01-APR-2010 12:55:19; Bright; 45.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 91; 0;42276
13; 5726.2; 01-APR-2010 13:16:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42276
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15; 6110.1; 01-APR-2010 13:23:14; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;42277
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17; 6555.0; 01-APR-2010 13:30:39; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;42277
18; 6712.9; 01-APR-2010 13:33:17; Dark ; 53.5; 4; Alp1Cen ;-0.01; 5800;occ; 107; 0;42277
19; 6878.6; 01-APR-2010 13:36:02; Dark ; 45.0; 78; Alp Lup ; 2.30; 28000;occ; 90; 0;42277
20; 6974.7; 01-APR-2010 13:37:38; Dark ; 45.0; 81; Eta Cen ; 2.36; 28000;occ; 90; 0;42277
21; 7138.3; 01-APR-2010 13:40:22; Dark ; 54.0; 54; 5The Cen ; 2.06; 4500;occ; 108; 0;42277
22; 7497.3; 01-APR-2010 13:46:21; Dark ; 45.0; 106; 9Bet Crv ; 2.65; 5600;occ; 90; 0;42277
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2; 1687.9; 01-APR-2010 13:50:07; Dark ; 42.0; 15; 67Alp Vir ; 0.98; 28000;occ; 84; 0;42277
3; 1882.3; 01-APR-2010 13:53:22; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;42277
4; 2160.2; 01-APR-2010 13:58:00; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;42277
5; 2666.2; 01-APR-2010 14:06:26; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;42277
6; 2847.1; 01-APR-2010 14:09:27; Bright; 38.0; 87; 64Gam UMa ; 2.43; 11000;occ; 76; 0;42277
7; 2957.4; 01-APR-2010 14:11:17; Bright; 40.5; 36; 50Alp UMa ; 1.80; 6300;occ; 81; 0;42277
8; 3336.1; 01-APR-2010 14:17:36; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;42277
9; 3901.8; 01-APR-2010 14:27:01; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;42277
10; 4198.5; 01-APR-2010 14:31:58; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;42277
11; 4312.9; 01-APR-2010 14:33:52; Bright; 42.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 85; 0;42277
12; 4434.9; 01-APR-2010 14:35:54; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;42277
13; 5727.1; 01-APR-2010 14:57:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42277
14; 5897.7; 01-APR-2010 15:00:17; Dark ; 52.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 104; 0;42277
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16; 6337.9; 01-APR-2010 15:07:37; Dark ; 53.5; 40; The Sco ; 1.86; 7100;occ; 107; 0;42278
17; 6555.6; 01-APR-2010 15:11:15; Dark ; 42.0; 134; Bet TrA ; 2.81; 6600;occ; 84; 0;42278
18; 6713.7; 01-APR-2010 15:13:53; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;42278
19; 6879.3; 01-APR-2010 15:16:39; Dark ; 42.5; 78; Alp Lup ; 2.30; 28000;occ; 85; 0;42278
20; 6975.6; 01-APR-2010 15:18:15; Dark ; 48.5; 81; Eta Cen ; 2.36; 28000;occ; 97; 0;42278
21; 7139.0; 01-APR-2010 15:20:59; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;42278
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5; 2159.9; 01-APR-2010 15:38:35; Bright; 39.0; 62; 94Bet Leo ; 2.14; 9700;occ; 78; 0;42278
6; 2665.8; 01-APR-2010 15:47:01; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;42278
7; 2847.0; 01-APR-2010 15:50:02; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;42278
8; 2957.4; 01-APR-2010 15:51:53; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;42278
9; 3335.6; 01-APR-2010 15:58:11; Bright; 43.5; 60; 7Bet UMi ; 2.08; 3950;occ; 87; 0;42278
10; 3901.6; 01-APR-2010 16:07:37; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;42278
11; 4198.6; 01-APR-2010 16:12:34; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;42278
12; 4312.9; 01-APR-2010 16:14:28; Bright; 45.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 91; 0;42278
13; 4435.1; 01-APR-2010 16:16:31; Bright; 45.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 90; 0;42278
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15; 5899.1; 01-APR-2010 16:40:55; Dark ; 48.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 97; 0;42278
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3; 520.4; 01-APR-2010 18:32:28; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;42280
4; 678.6; 01-APR-2010 18:35:06; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;42280
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6; 940.9; 01-APR-2010 18:39:28; Dark ; 48.0; 81; Eta Cen ; 2.36; 28000;occ; 96; 0;42280
7; 1104.4; 01-APR-2010 18:42:12; Dark ; 31.5; 54; 5The Cen ; 2.06; 4500;occ; 63; 0;42280
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 6; 2939.4; 04-APR-2010 12:36:08; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;42319
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4; -1082.7; 23-APR-2010 06:30:08; Dark ; 54.5; 61; 8Eps Peg ; 2.10; 3900;occ; 109; 0;42587
5; -935.2; 23-APR-2010 06:32:36; Dark ; 46.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 92; 0;42587
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9; 110.8; 23-APR-2010 06:50:02; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;42588
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13; 1225.5; 23-APR-2010 07:08:36; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;42588
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3; 2261.3; 23-APR-2010 07:25:52; Bright; 43.0; 111; 8Eta Boo ; 2.68; 6000;occ; 86; 0;42588
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5; 2698.9; 23-APR-2010 07:33:10; Bright; 46.0; 180; 27Gam Boo ; 3.04; 8000;occ; 92; 0;42588

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8; 3857.9; 23-APR-2010 07:52:29; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;42588
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21; 7614.6; 23-APR-2010 08:55:05; Bright; 50.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 100; 0;42589
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6; 3244.5; 23-APR-2010 09:22:51; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;42589
7; 3857.5; 23-APR-2010 09:33:04; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;42589
8; 4490.7; 23-APR-2010 09:43:37; Bright; 52.0; 164; 44Eta Peg ; 2.95; 5400;occ; 104; 0;42589
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5; 2697.8; 23-APR-2010 10:54:20; Bright; 45.0; 180; 27Gam Boo ; 3.04; 8000;occ; 90; 0;42590
6; 2802.9; 23-APR-2010 10:56:05; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;42590
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9; 4517.3; 23-APR-2010 11:24:40; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;42590
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17; 6679.1; 23-APR-2010 12:00:42; Dark ; 55.5; 40; The Sco ; 1.86; 7100;occ; 111; 0;42591
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4; 2567.1; 23-APR-2010 12:32:46; Bright; 54.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 108; 0;42591
5; 2697.3; 23-APR-2010 12:34:56; Bright; 44.5; 180; 27Gam Boo ; 3.04; 8000;occ; 89; 0;42591
6; 2802.7; 23-APR-2010 12:36:41; Bright; 41.0; 39; 85Eta UMa ; 1.85; 24000;occ; 82; 0;42591


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16; 5725.5; 23-APR-2010 16:46:36; Dark ; 40.5; 172; Gam Gru ; 3.00; 13100;occ; 81; 0;42593
17; 6150.1; 23-APR-2010 16:53:40; Dark ; 47.0; 45; Alp Pav ; 1.94; 26000;occ; 94; 0;42594
18; 6682.4; 23-APR-2010 17:02:33; Dark ; 62.5; 40; The Sco ; 1.86; 7100;occ; 125; 0;42594
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