

GOMOS Daily Report 21-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	24APR2010 04:50:33
Data source version	GOMOS/5.00L04
Start time of products	21APR2010 00:03:20
Stop time of products	21APR2010 23:50:57
Store outputs in DB	Yes
Nb of level 1b prods	146
Nb of prods with errors	1

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

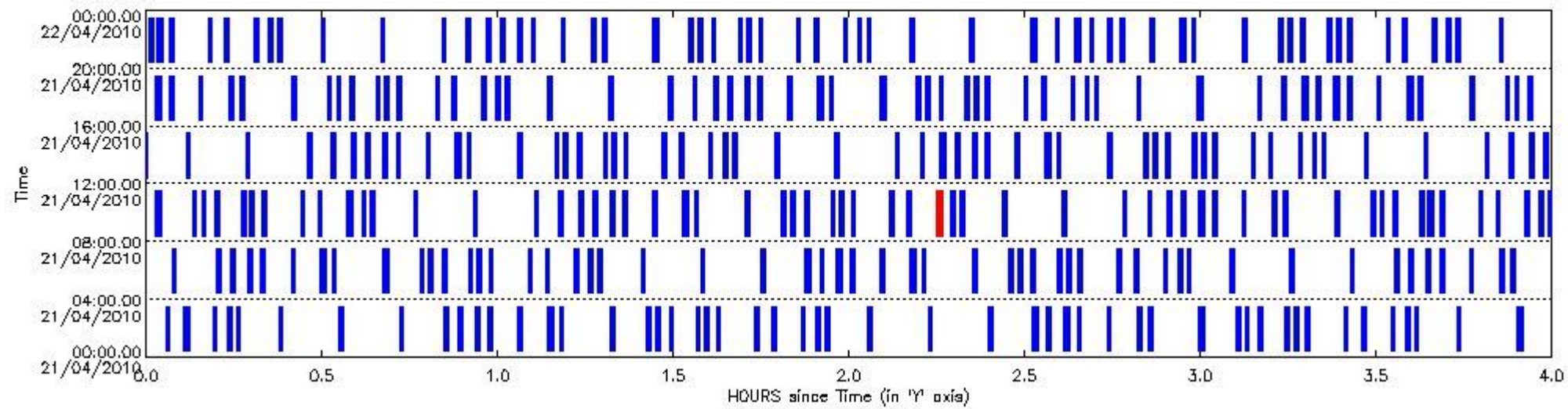
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

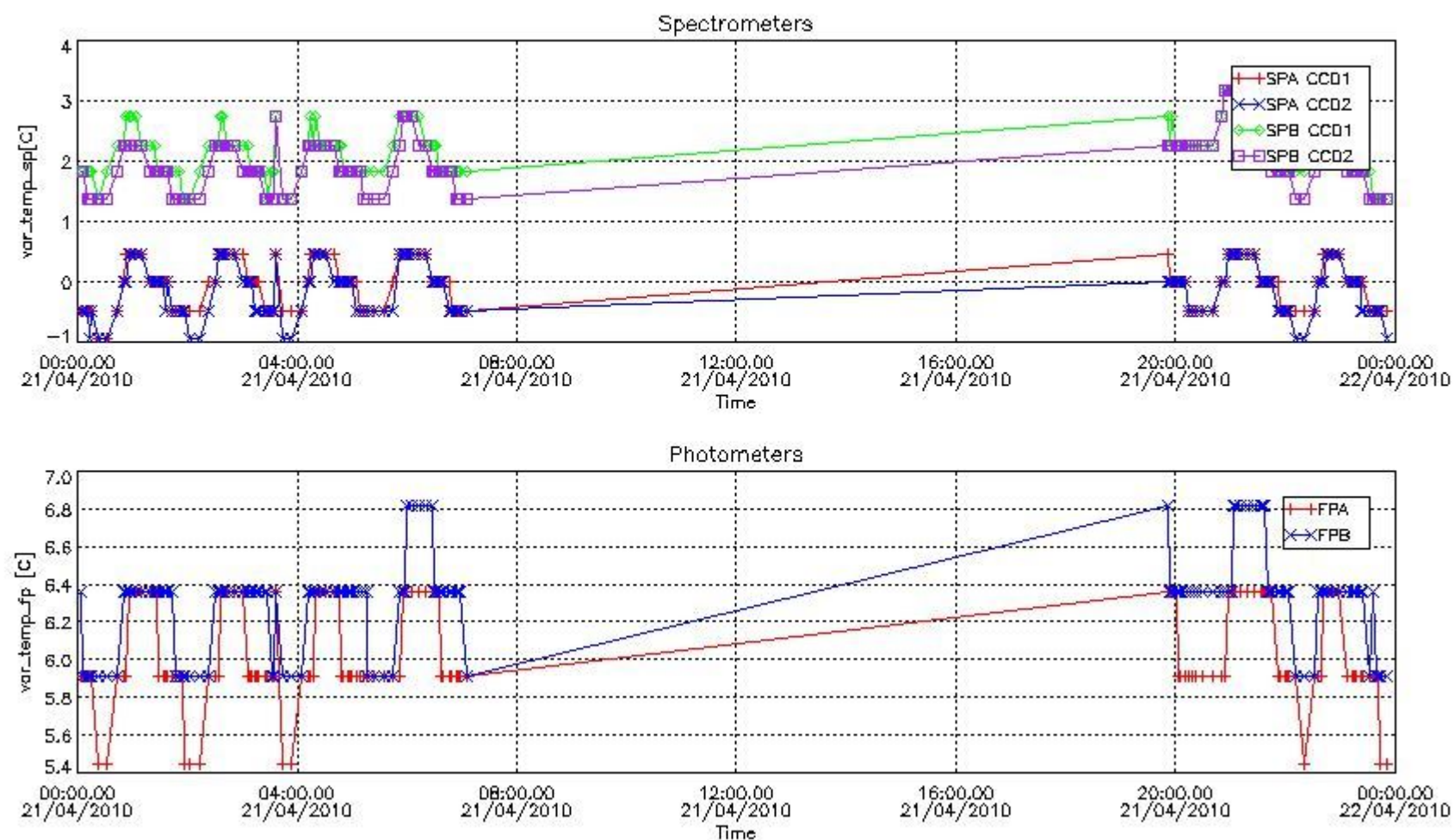
UTC start time	Star name	Star ID	Orbit
21-APR-2010 10:15:01	12Alp2CVn	152	42561

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_1PNPDE20100421_000320_000000382088_00417_42555_5542.N1	21-APR-2010 00:03:20	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	42555	No
2	GOM_TRA_1PNPDE20100421_000618_000000632088_00417_42555_5543.N1	21-APR-2010 00:06:18	Bright	63.000	111	8Eta Boo	2.6800	6000.0	126	42555	No
3	GOM_TRA_1PNPDE20100421_001118_000000362088_00417_42555_5544.N1	21-APR-2010 00:11:18	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	42555	No
4	GOM_TRA_1PNPDE20100421_001347_000000452088_00417_42555_5545.N1	21-APR-2010 00:13:47	Bright	45.000	180	27Gam Boo	3.0400	8000.0	90	42555	No
5	GOM_TRA_1PNPDE20100421_001521_000000422088_00417_42555_5546.N1	21-APR-2010 00:15:21	Bright	41.500	39	85Eta UMa	1.8540	24000.	83	42555	No
6	GOM_TRA_1PNPDE20100421_002238_000000412088_00417_42555_5547.N1	21-APR-2010 00:22:38	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	42555	No
7	GOM_TRA_1PNPDE20100421_003250_000000432088_00417_42555_5548.N1	21-APR-2010 00:32:50	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	42555	No
8	GOM_TRA_1PNPDE20100421_004311_000000382088_00417_42555_5549.N1	21-APR-2010 00:43:11	Bright	38.000	164	44Eta Peg	2.9480	5400.0	76	42555	No
9	GOM_TRA_1PNPDE20100421_005040_000000532088_00417_42555_5550.N1	21-APR-2010 00:50:40	Dark	52.500	61	8Eps Peg	2.1000	3900.0	105	42555	No
10	GOM_TRA_1PNPDE20100421_005309_000000482088_00417_42555_5551.N1	21-APR-2010 00:53:09	Dark	47.500	162	34Alp Aqr	2.9440	5350.0	95	42555	No

129	GOM_TRA_1PNPDE20100421_224102_000000472088_00430_42568_5779.N1	21-APR-2010 22:41:02	Dark	47.000	162	34Alp Aqr	2.9440	5350.0	94	42568	No
130	GOM_TRA_1PNPDE20100421_224401_000000552088_00430_42568_5780.N1	21-APR-2010 22:44:01	Dark	55.000	154	22Bet Aqr	2.8990	5700.0	110	42568	No
131	GOM_TRA_1PNPDE20100421_224617_000000462088_00430_42568_5778.N1	21-APR-2010 22:46:17	Dark	46.000	142	49Del Cap	2.8500	8900.0	92	42568	No
132	GOM_TRA_1PNPDE20100421_225123_000000422088_00430_42568_5779.N1	21-APR-2010 22:51:23	Dark	41.500	172	Gam Gru	3.0030	13100.	83	42568	No
133	GOM_TRA_1PNPDE20100421_225828_000000402088_00431_42569_5780.N1	21-APR-2010 22:58:28	Dark	40.000	45	Alp Pav	1.9400	26000.	80	42569	No
134	GOM_TRA_1PNPDE20100421_230710_000000502088_00431_42569_5781.N1	21-APR-2010 23:07:10	Straylight	50.000	40	The Sco	1.8590	7100.0	100	42569	No
135	GOM_TRA_1PNPDE20100421_231318_000000412088_00431_42569_5782.N1	21-APR-2010 23:13:18	Straylight	41.000	78	Alp Lup	2.3040	28000.	82	42569	No
136	GOM_TRA_1PNPDE20100421_231453_000000452088_00431_42569_5783.N1	21-APR-2010 23:14:53	Straylight	45.000	81	Eta Cen	2.3560	28000.	90	42569	No
137	GOM_TRA_1PNPDE20100421_231707_000000452088_00431_42569_5784.N1	21-APR-2010 23:17:07	Straylight	44.500	54	5The Cen	2.0550	4500.0	89	42569	No
138	GOM_TRA_1PNPDE20100421_232138_000000432088_00431_42569_5785.N1	21-APR-2010 23:21:38	Twilight_stray	43.000	169	46Gam Hya	2.9910	4700.0	86	42569	No
139	GOM_TRA_1PNPDE20100421_232305_000000542088_00431_42569_5786.N1	21-APR-2010 23:23:05	Bright	54.000	122	9Alp2Lib	2.7470	9700.0	108	42569	No
140	GOM_TRA_1PNPDE20100421_232506_000000432088_00431_42569_5787.N1	21-APR-2010 23:25:06	Bright	42.500	15	67Alp Vir	0.97600	28000.	85	42569	No
141	GOM_TRA_1PNPDE20100421_233142_000000382088_00431_42569_5788.N1	21-APR-2010 23:31:42	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	42569	No
142	GOM_TRA_1PNPDE20100421_233435_000000452088_00431_42569_5789.N1	21-APR-2010 23:34:35	Bright	44.500	111	8Eta Boo	2.6800	6000.0	89	42569	No
143	GOM_TRA_1PNPDE20100421_233939_000000382088_00431_42569_5790.N1	21-APR-2010 23:39:39	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	42569	No
144	GOM_TRA_1PNPDE20100421_234200_000000432088_00431_42569_5791.N1	21-APR-2010 23:42:00	Bright	43.000	180	27Gam Boo	3.0400	8000.0	86	42569	No
145	GOM_TRA_1PNPDE20100421_234339_000000392088_00431_42569_5792.N1	21-APR-2010 23:43:39	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	42569	No
146	GOM_TRA_1PNPDE20100421_235057_000000372088_00431_42569_5793.N1	21-APR-2010 23:50:57	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	42569	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"

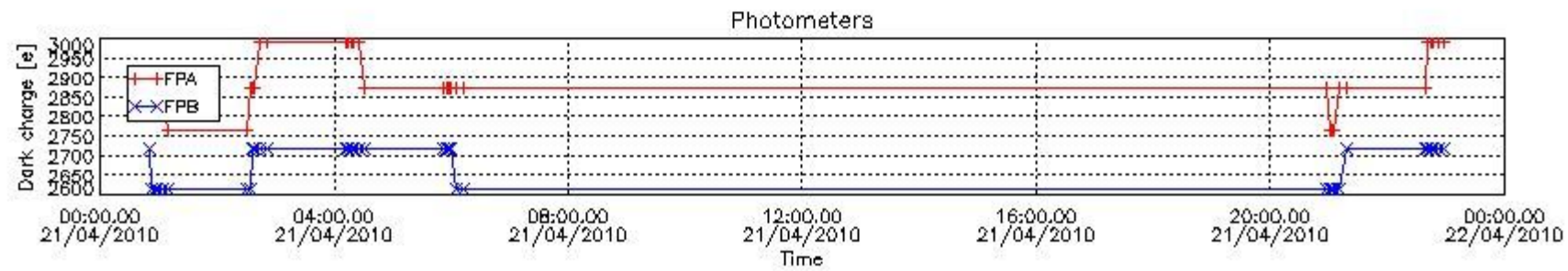
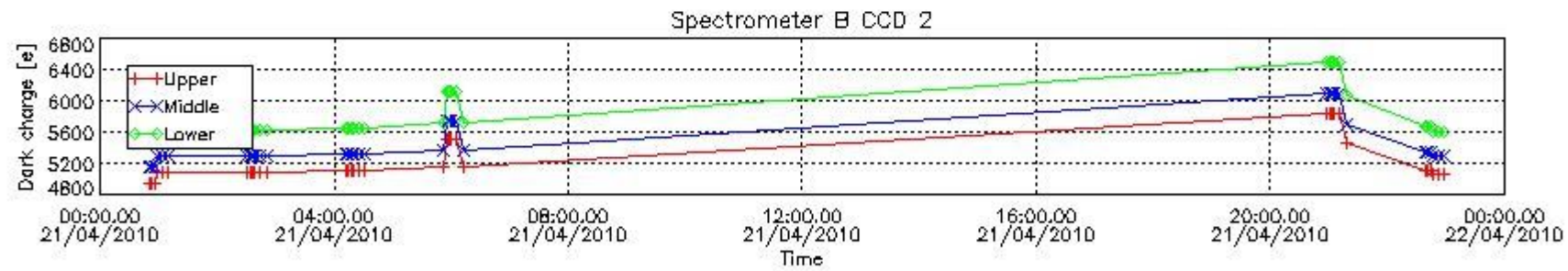
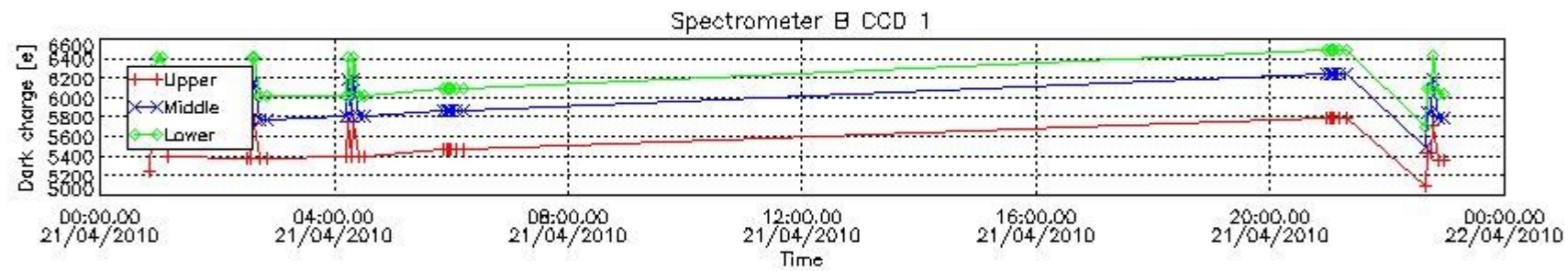
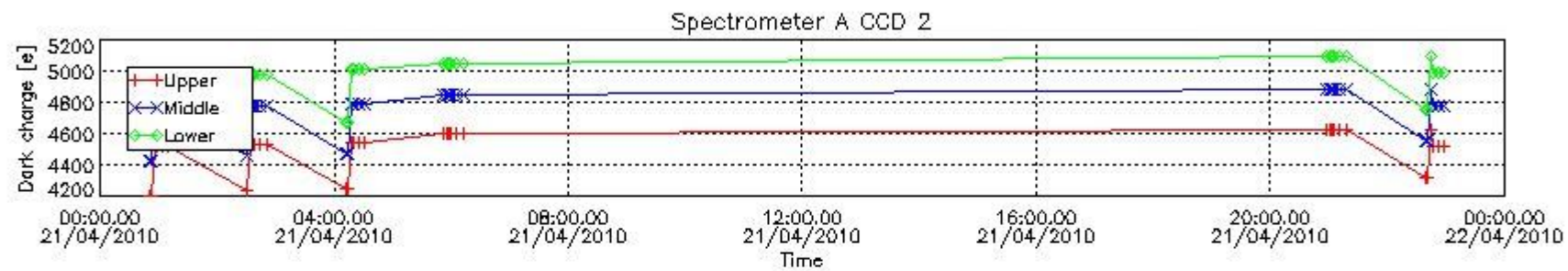
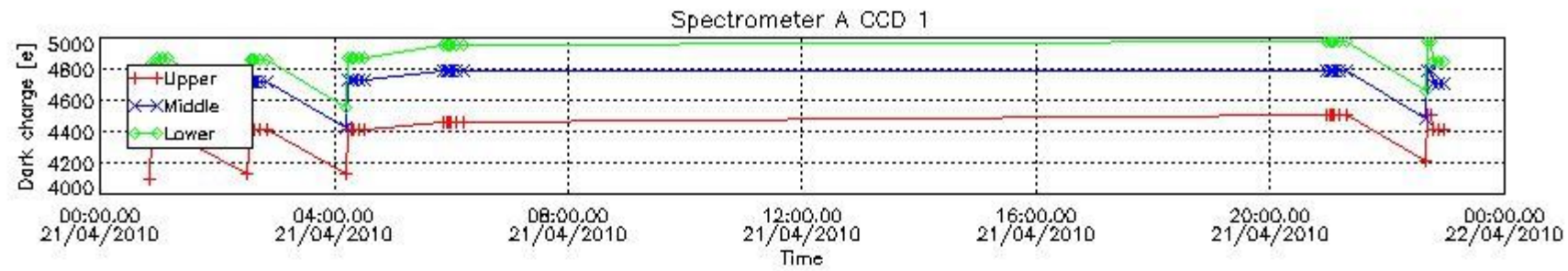
(a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

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_1PNPDE20100421_195206_000000432088_00429_42567_5737.N1	DC map used
GOM_TRA_1PNPDE20100421_195340_000000442088_00429_42567_5738.N1	DC map used
GOM_TRA_1PNPDE20100421_195555_000000452088_00429_42567_5739.N1	DC map used
GOM_TRA_1PNPDE20100421_200026_000000442088_00429_42567_5740.N1	DC map used
GOM_TRA_1PNPDE20100421_200153_000000532088_00429_42567_5741.N1	DC map used
GOM_TRA_1PNPDE20100421_200355_000000432088_00429_42567_5742.N1	DC map used
GOM_TRA_1PNPDE20100421_201031_000000382088_00429_42567_5743.N1	DC map used
GOM_TRA_1PNPDE20100421_201325_000000432088_00429_42567_5744.N1	DC map used
GOM_TRA_1PNPDE20100421_201827_000000382088_00429_42567_5745.N1	DC map used
GOM_TRA_1PNPDE20100421_202050_000000472088_00429_42567_5746.N1	DC map used
GOM_TRA_1PNPDE20100421_202228_000000412088_00429_42567_5747.N1	DC map used
GOM_TRA_1PNPDE20100421_202946_000000402088_00429_42567_5748.N1	DC map used
GOM_TRA_1PNPDE20100421_203959_000000402088_00429_42567_5749.N1	DC map used
GOM_TRA_1PNPDE20100421_205024_000000372088_00429_42567_5750.N1	DC map used
GOM_TRA_1PNPDE20100421_205433_000000442088_00429_42567_5751.N1	DC map used

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



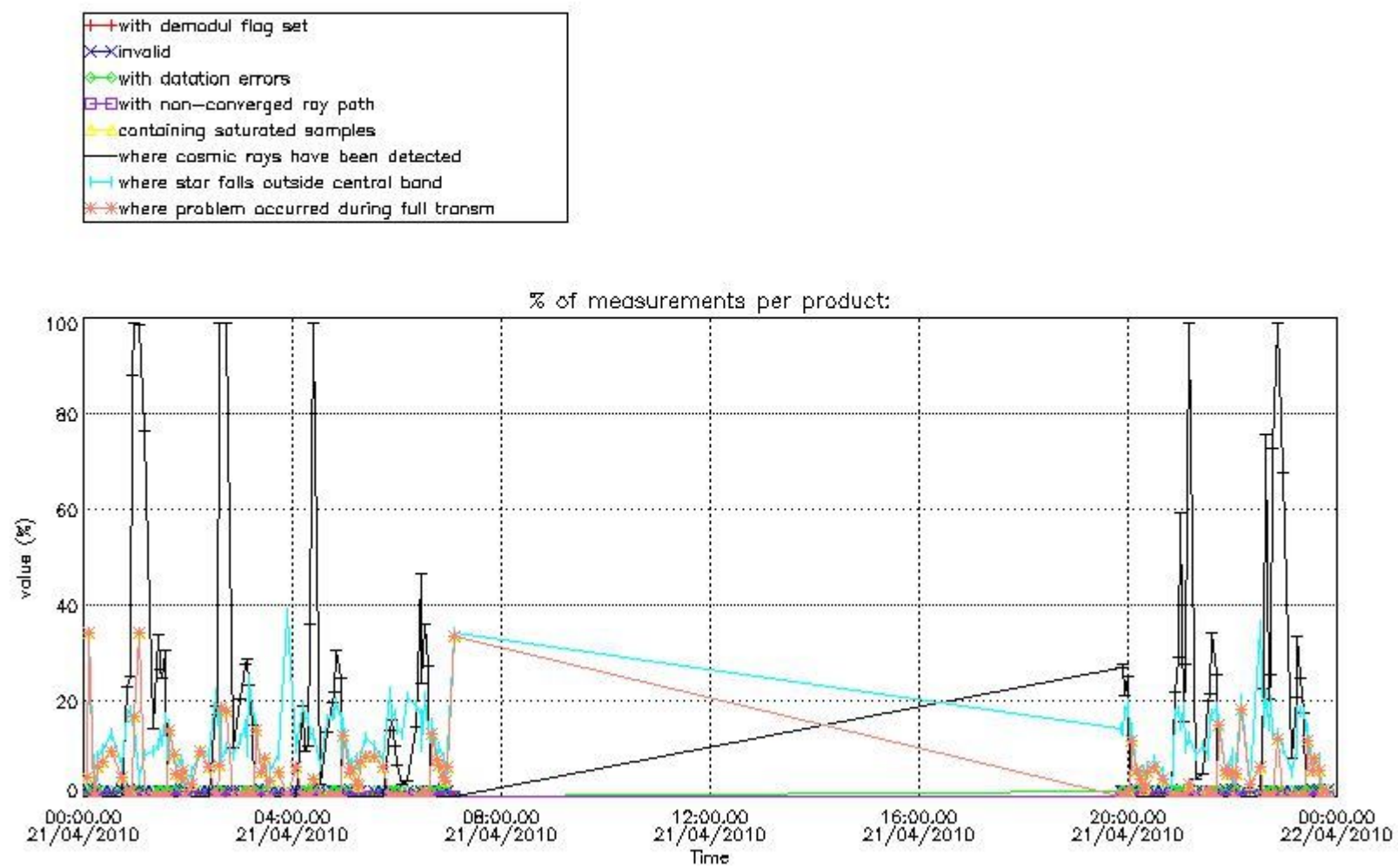
5. Demodulation flag and quality information monitoring

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.

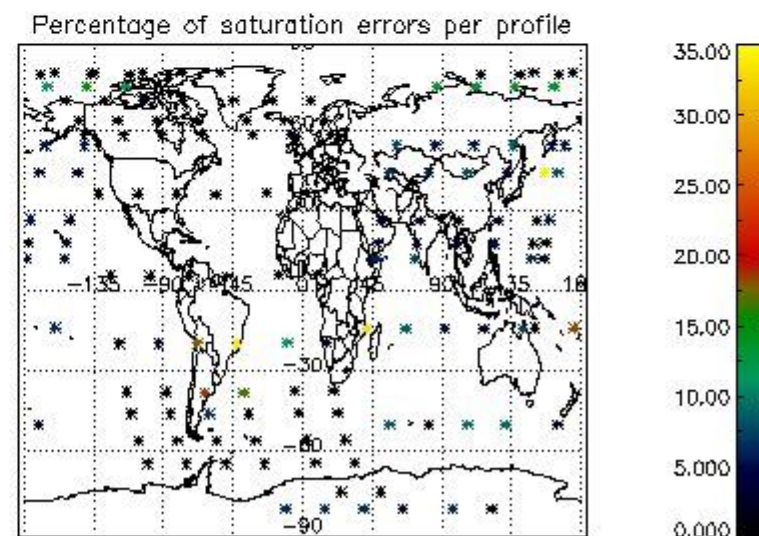
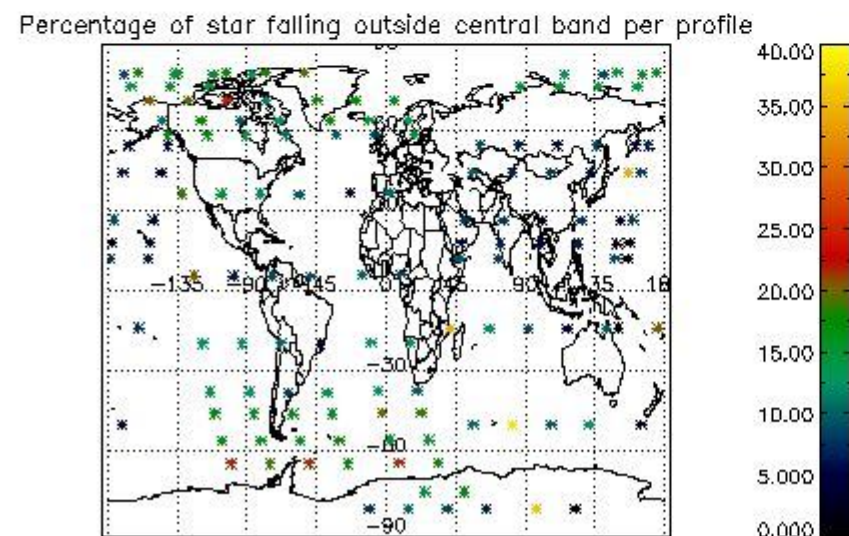
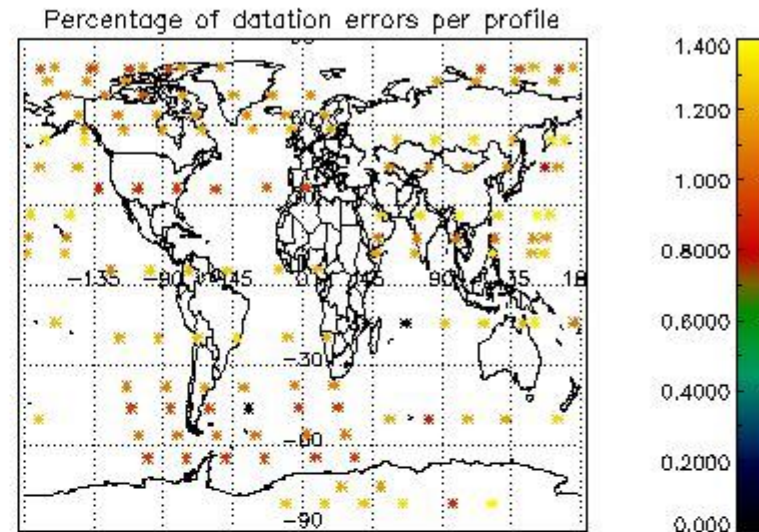
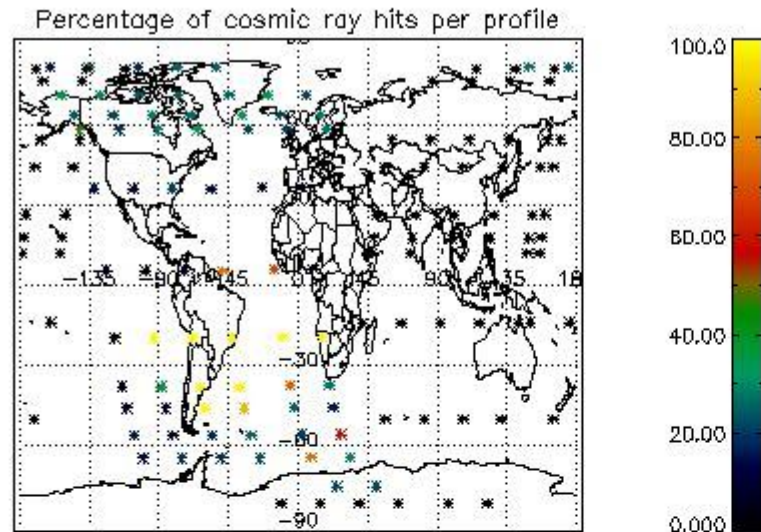
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	41.3793 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



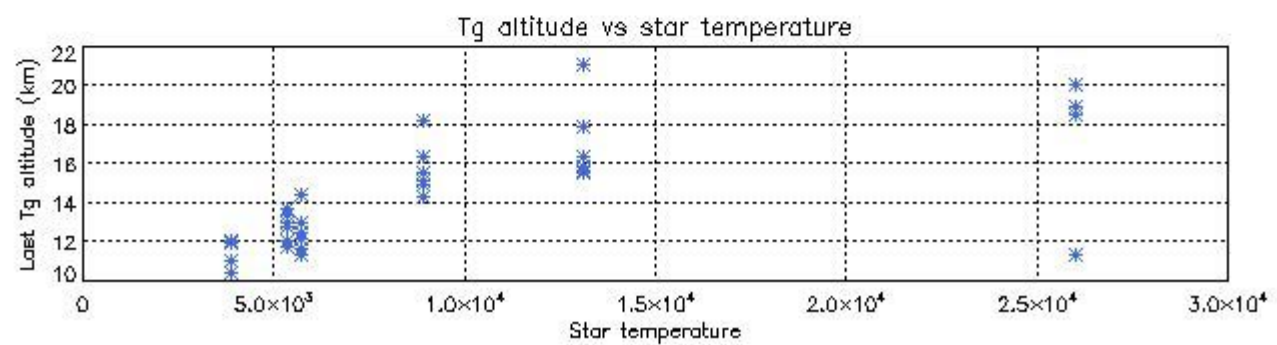
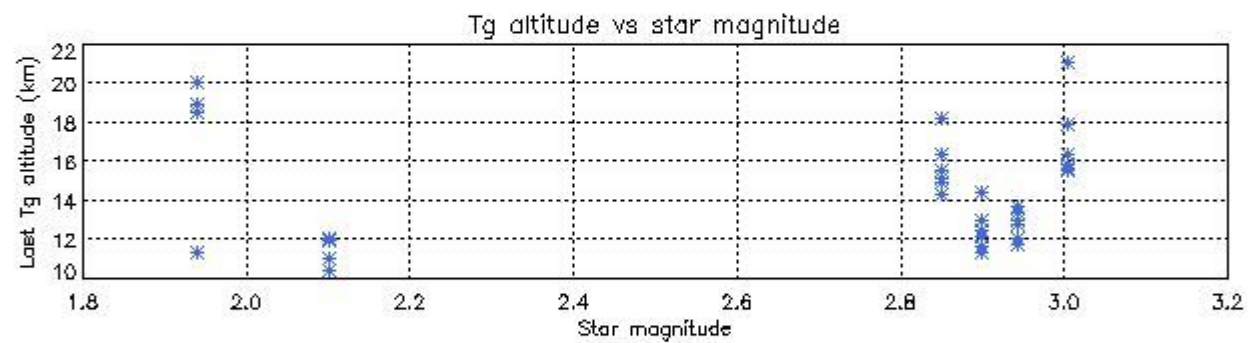
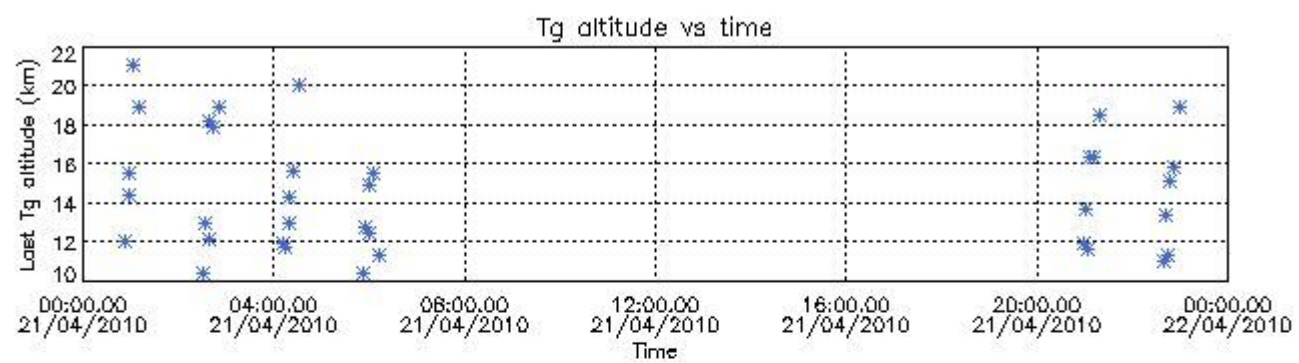
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.516	18.787	NaN
St. deviation:	2.9843	5.0098	NaN
Maximum:	21.028	27.643	NaN
Minimum:	10.384	3.4607	NaN
Number of data:	36.000	73.000	NaN

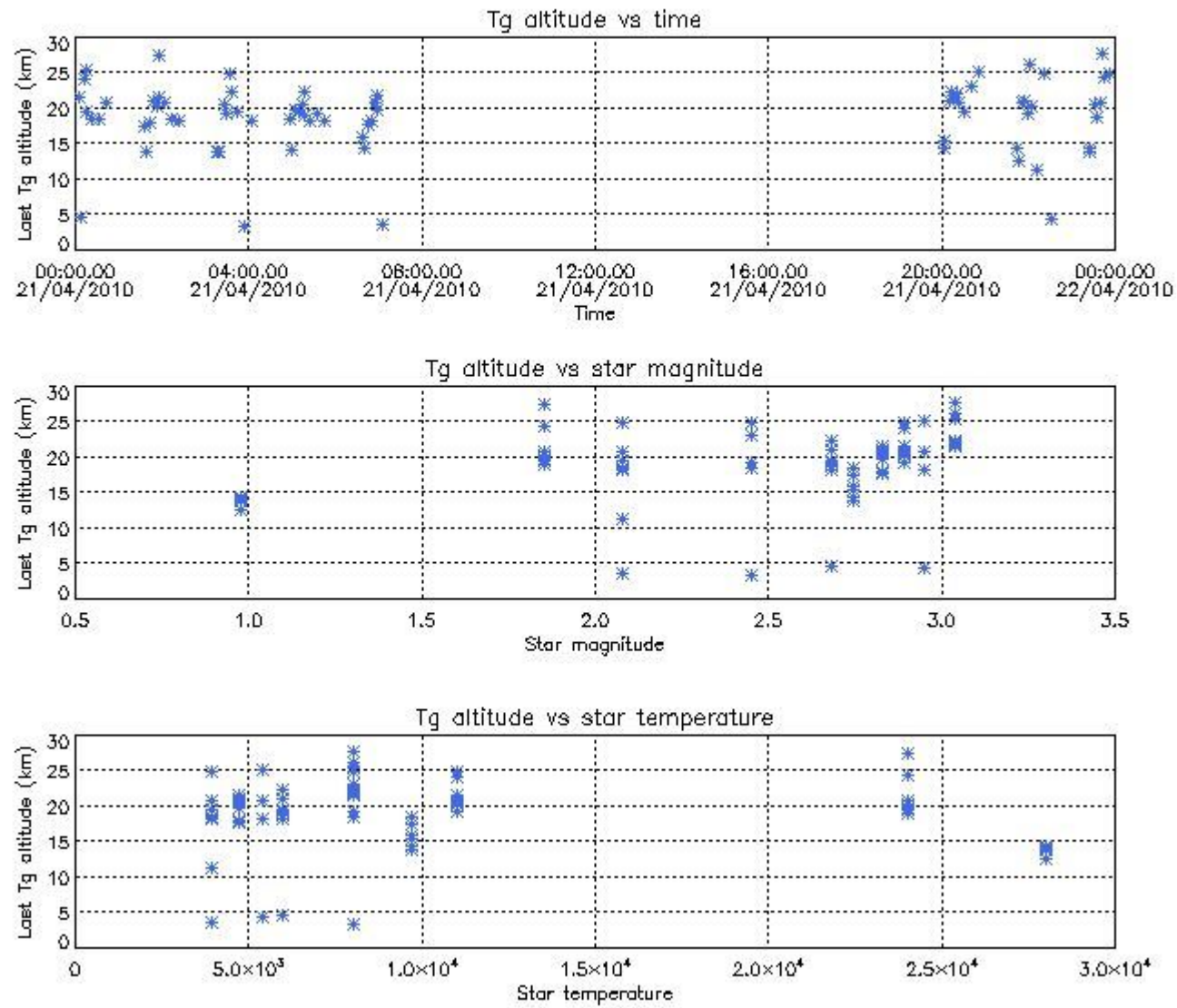
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

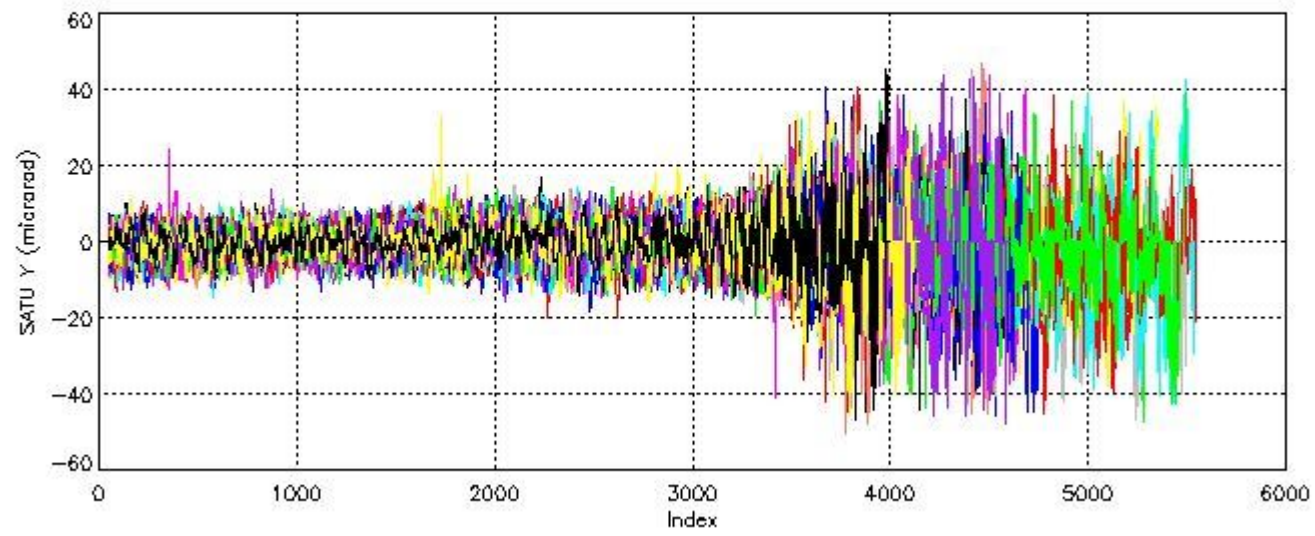
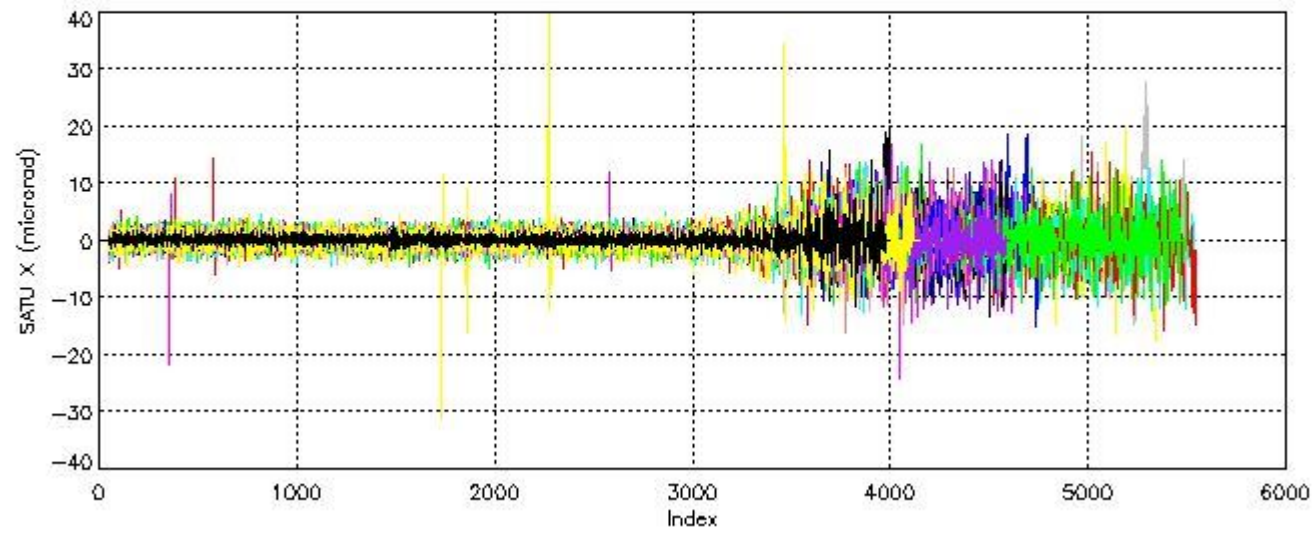


7. Star Acquisition and Tracking Unit (SATU)

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:	0.14073	-0.68352	0.21338	-0.65918
St. deviation:	0.76186	3.3703	0.93056	3.5160
Maximum:	14.300	24.200	7.1000	17.100
Minimum:	-21.800	-14.500	-7.2000	-16.600

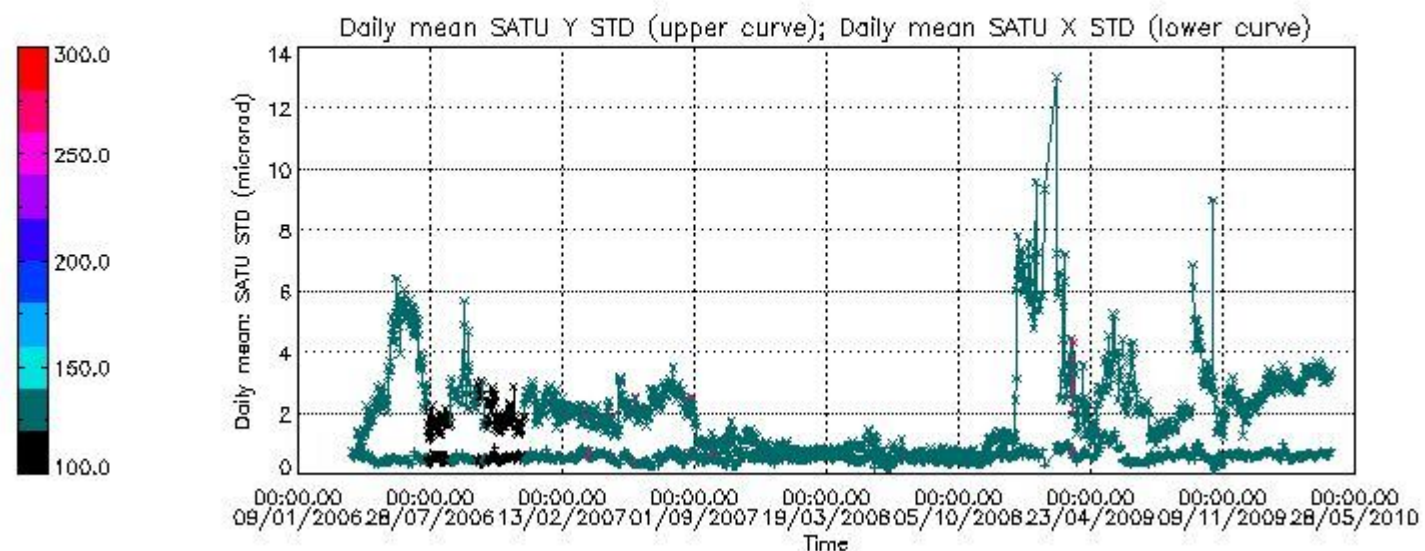
Number of data:	36150.	36150.	72150.	72150.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

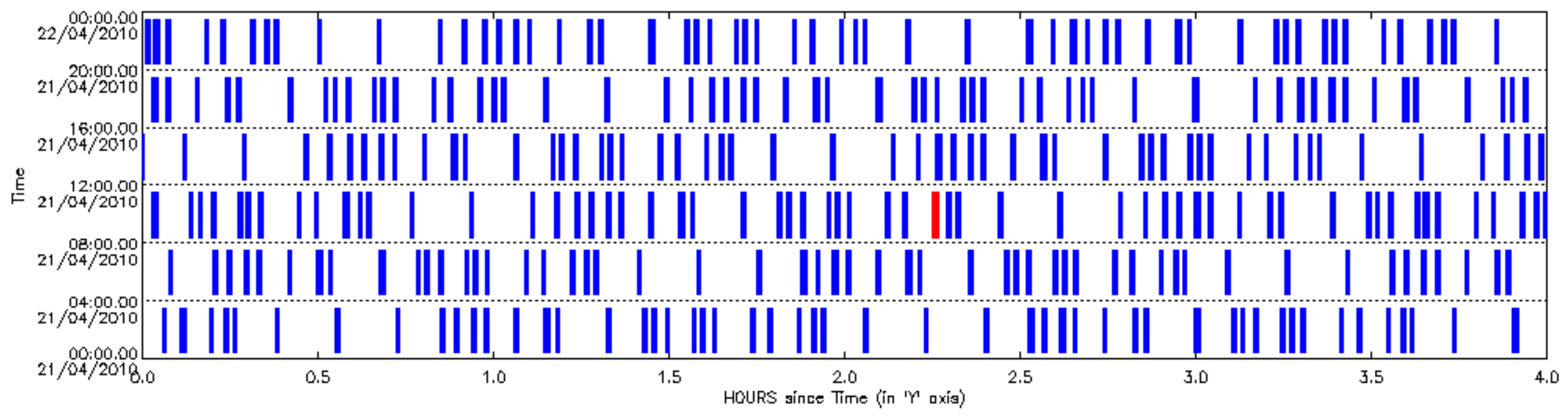
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

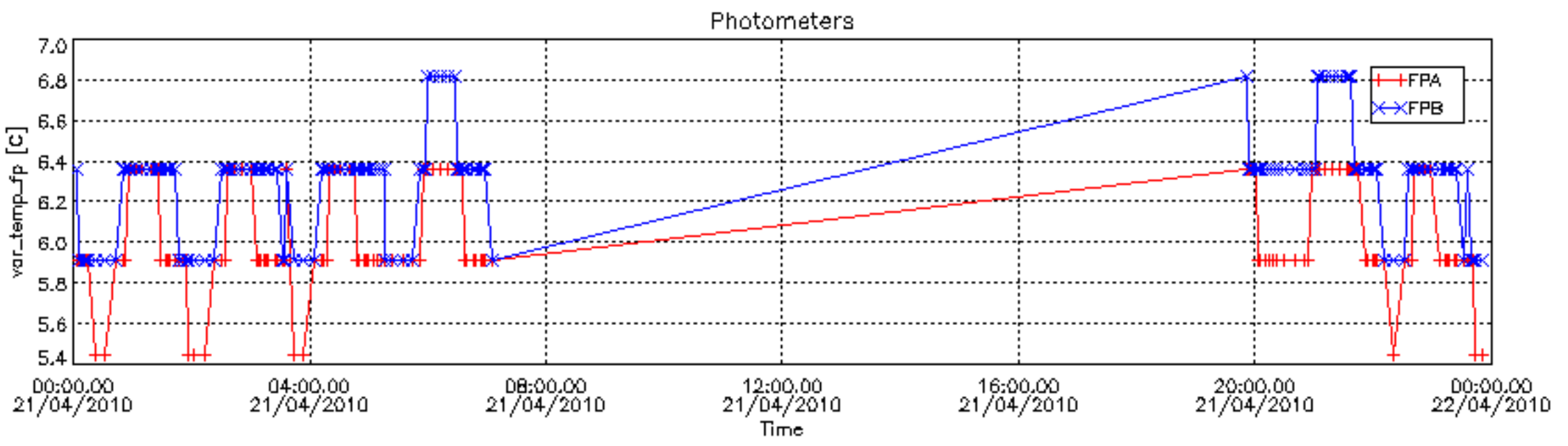
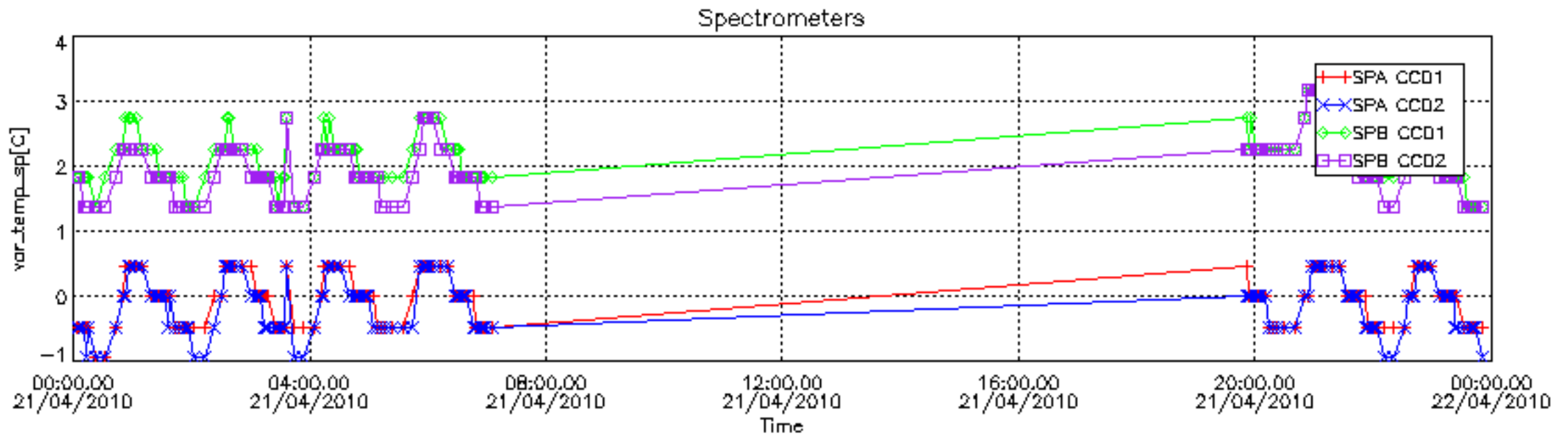


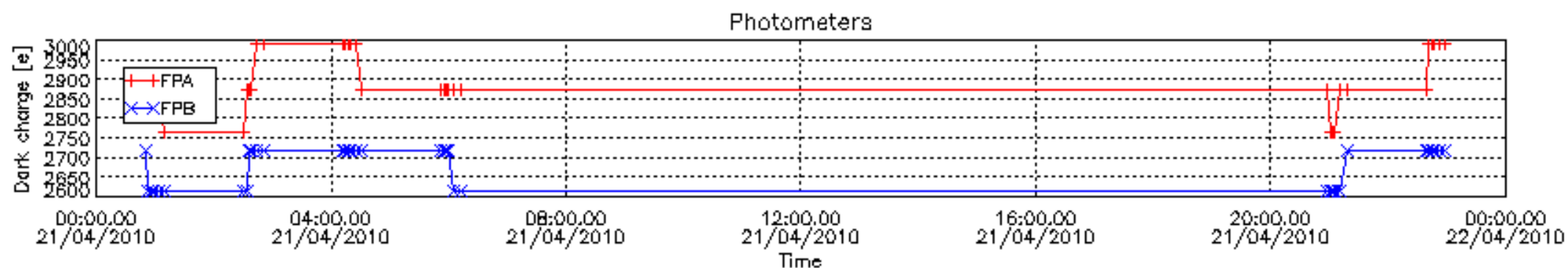
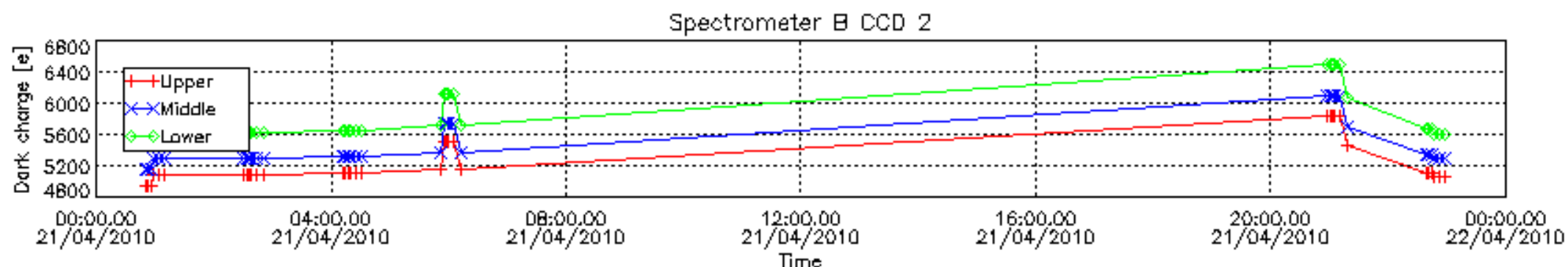
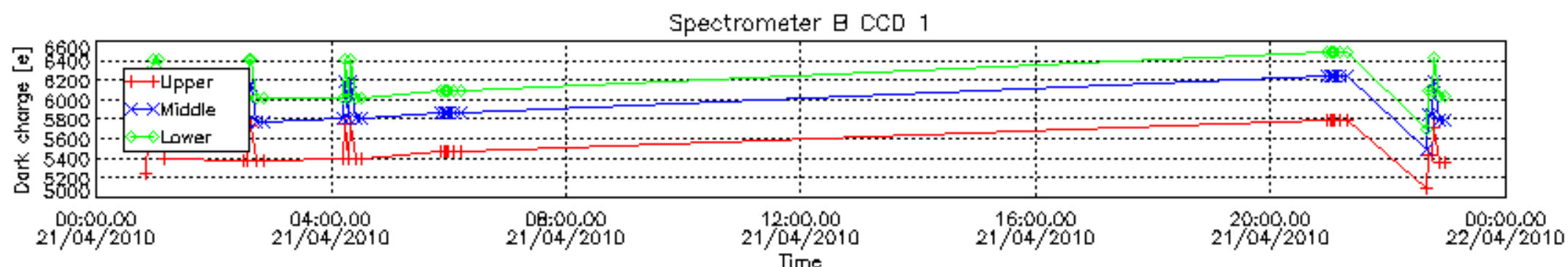
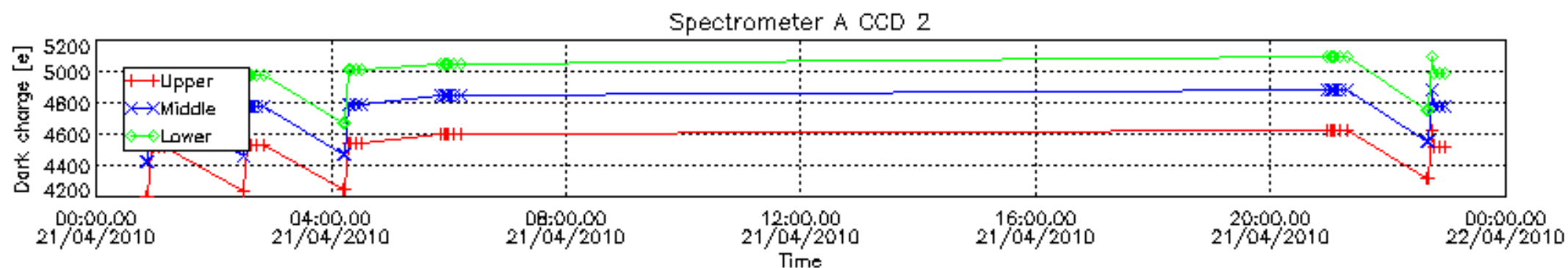
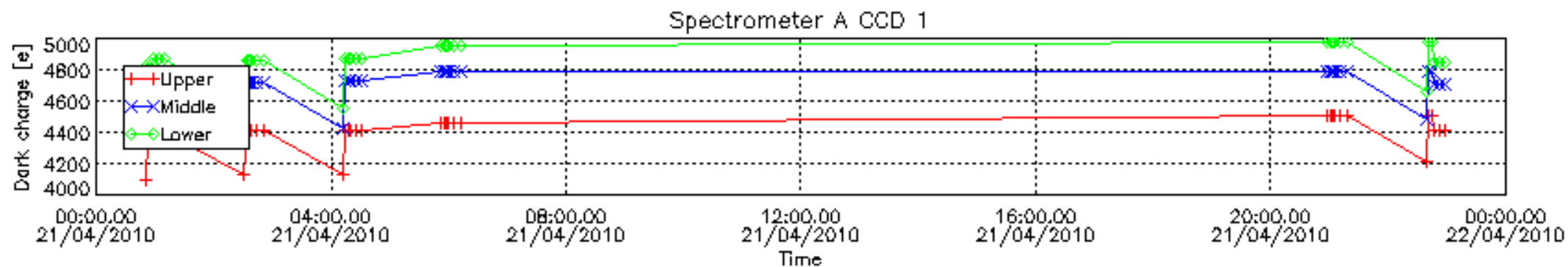
8. Auxiliary Data Files used for the production reported in section 2.4

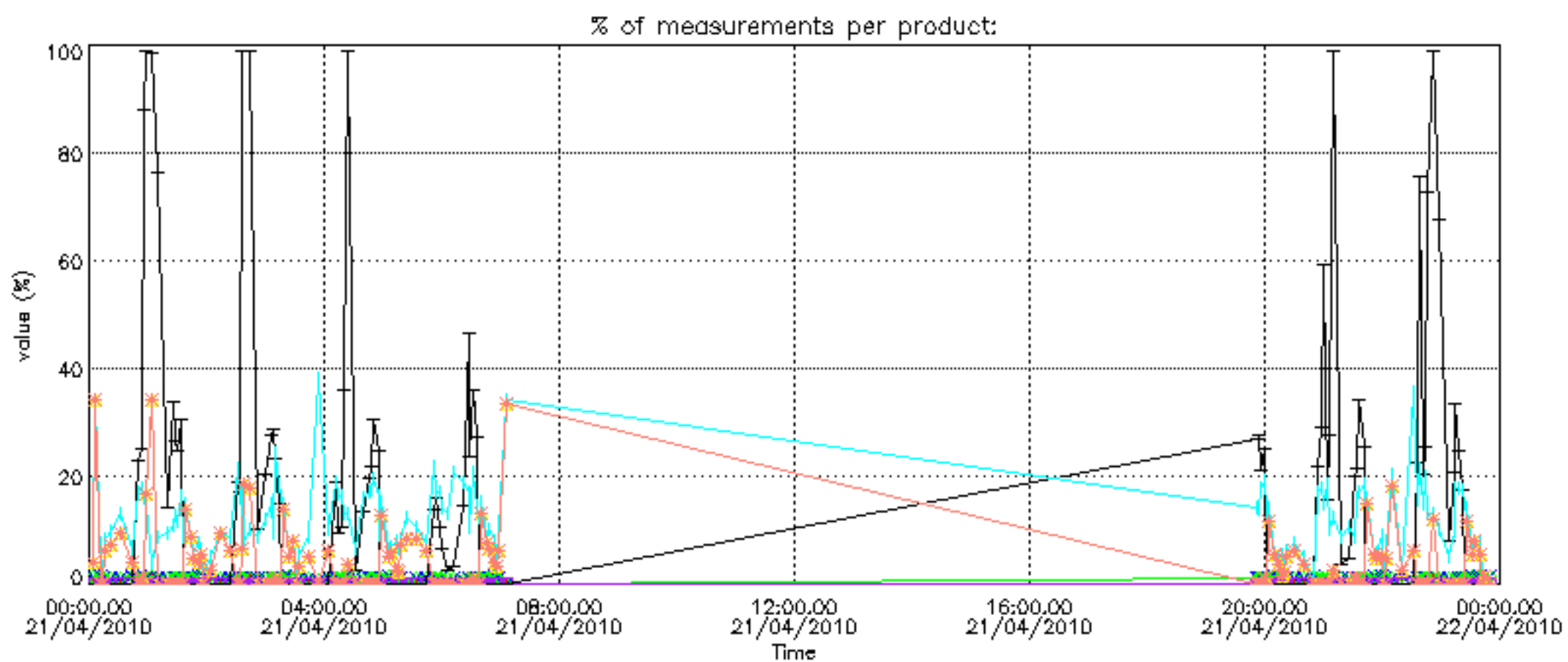
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-APR-2010 00:03:20
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100413_150709_20100411_000000_20500101_000000	1	21-APR-2010 00:03:20
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100421_081220_20100420_000000_20500101_000000	91	21-APR-2010 19:52:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	21-APR-2010 00:03:20
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-APR-2010 00:03:20
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	21-APR-2010 00:03:20
ECMWF_FILE	AUX_ECF_AXNECM20100420_054116_20100420_210000_20100421_090000	1	21-APR-2010 00:03:20
ECMWF_FILE	AUX_ECF_AXNECM20100420_192116_20100421_030000_20100421_150000	47	21-APR-2010 03:36:32
ECMWF_FILE	AUX_ECA_AXNECM20100421_052117_20100420_210000_20100421_090000	70	21-APR-2010 05:34:37
ECMWF_FILE	AUX_ECA_AXNECM20100421_172116_20100421_090000_20100421_210000	91	21-APR-2010 19:52:06
ECMWF_FILE	AUX_ECF_AXNECM20100421_052118_20100421_150000_20100422_030000	106	21-APR-2010 20:57:58
ECMWF_FILE	AUX_ECF_AXNECM20100421_054116_20100421_210000_20100422_090000	131	21-APR-2010 22:46:17
OPTIONAL_ECMWF_FILE	MISSING	1	21-APR-2010 00:03:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100420_231505_000057382088_00416_42554_0199.N1	1	21-APR-2010 00:03:20
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100420_100117_20100419_185815_20100429_202427	12	21-APR-2010 00:58:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100421_053219_000054192088_00420_42558_0202.N1	70	21-APR-2010 05:34:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100421_194744_000038252088_00429_42567_0203.N1	91	21-APR-2010 19:52:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100421_205648_000060572088_00429_42567_0204.N1	106	21-APR-2010 20:57:58
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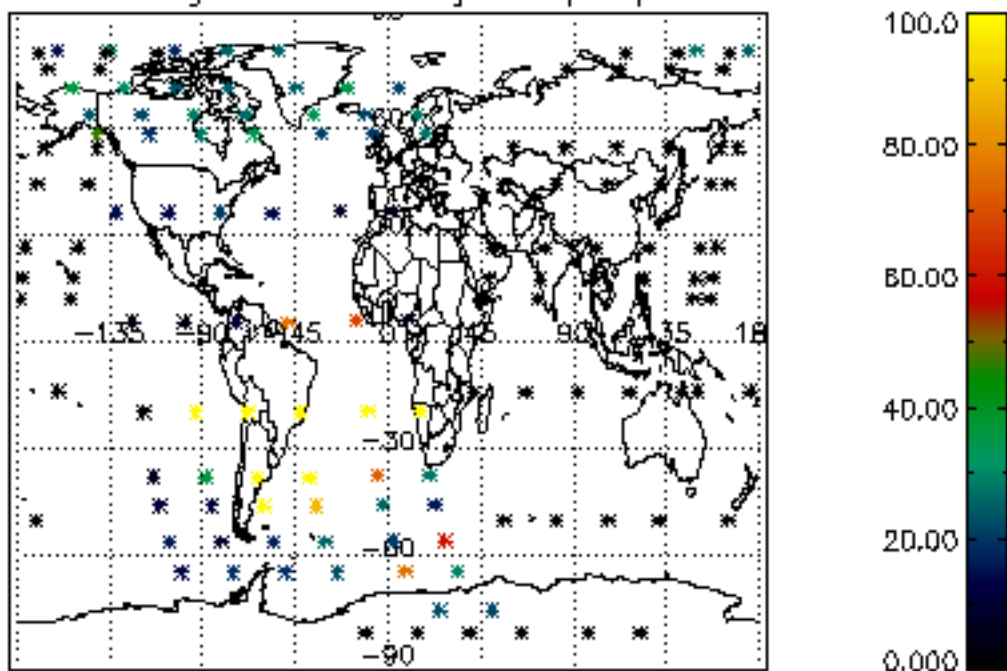




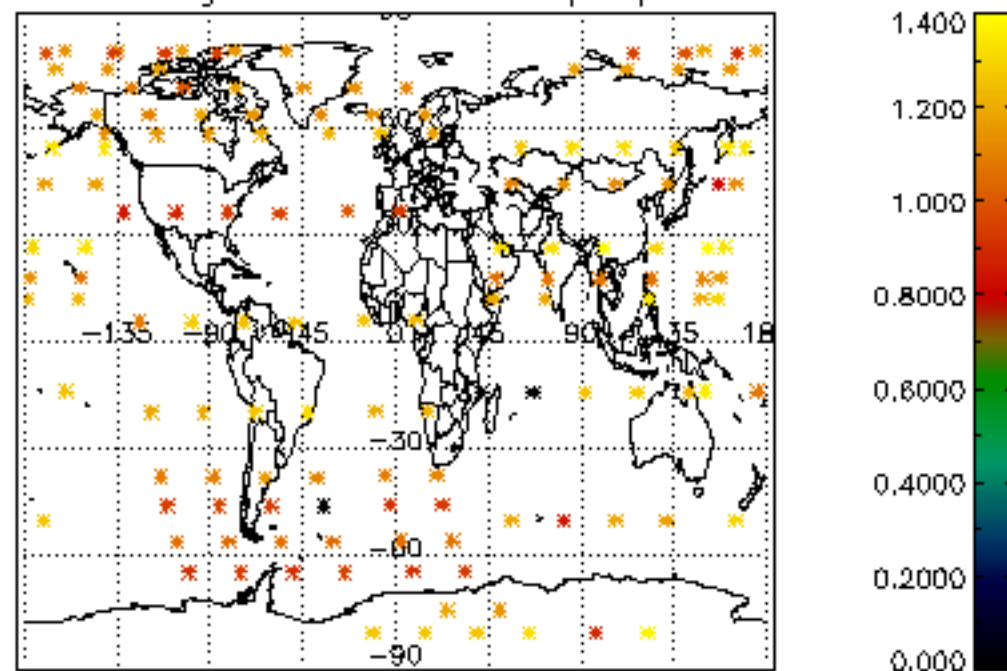




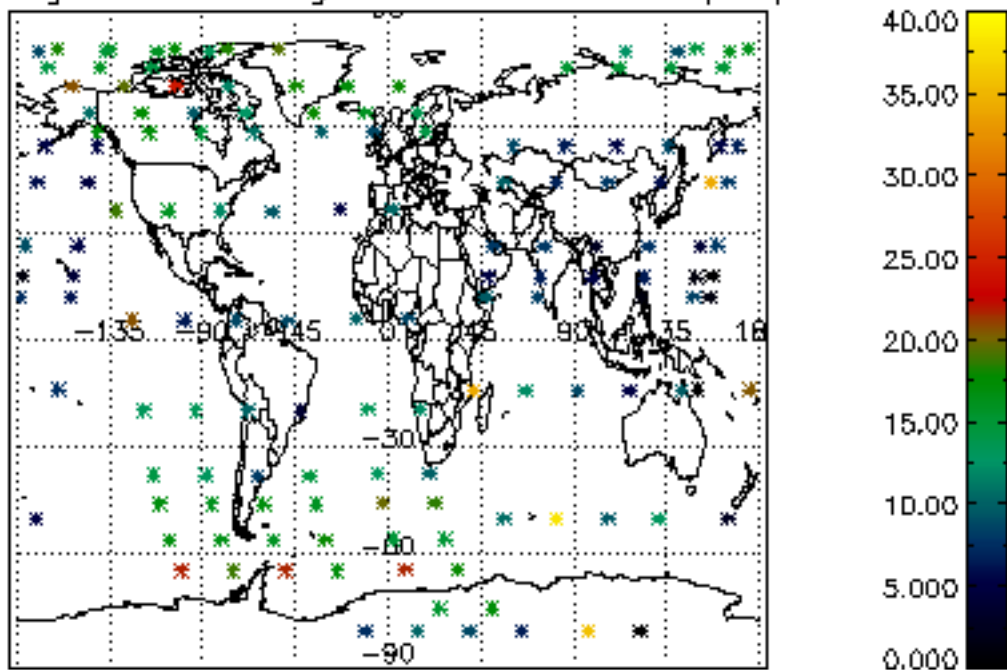
Percentage of cosmic ray hits per profile



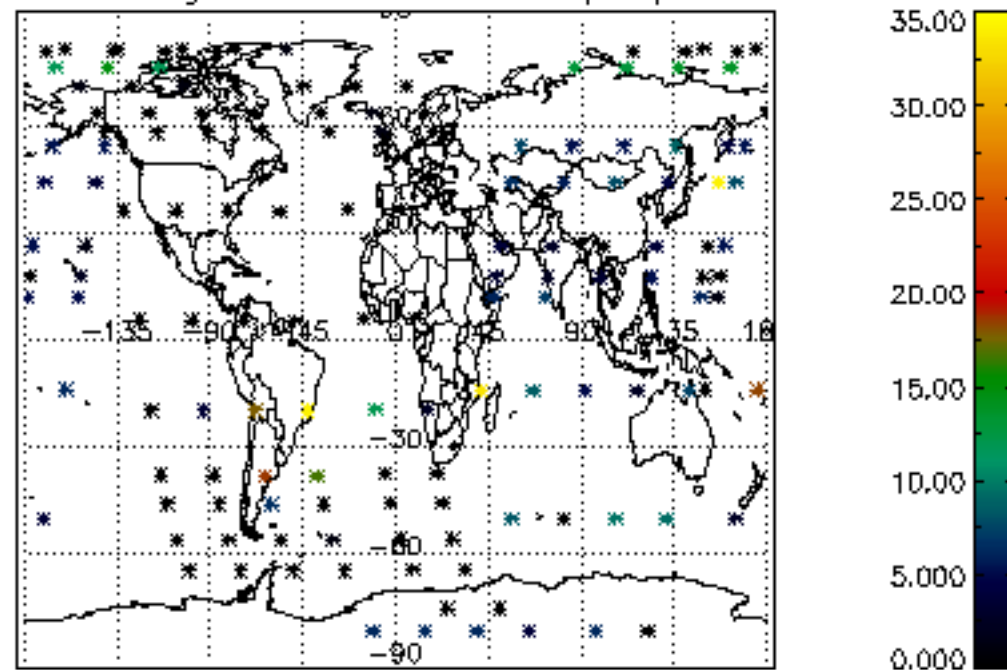
Percentage of datation errors per profile



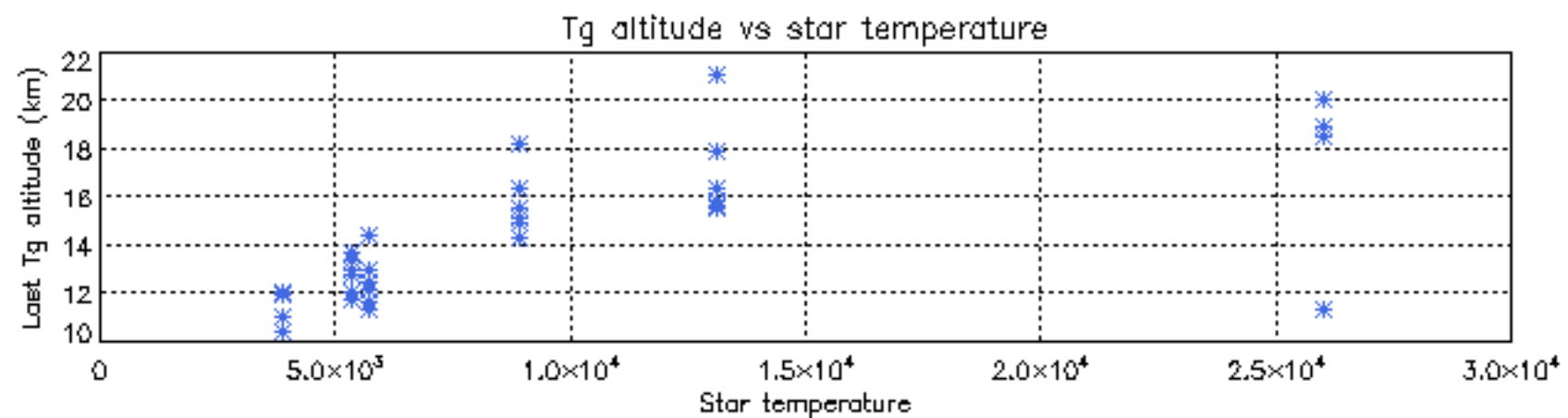
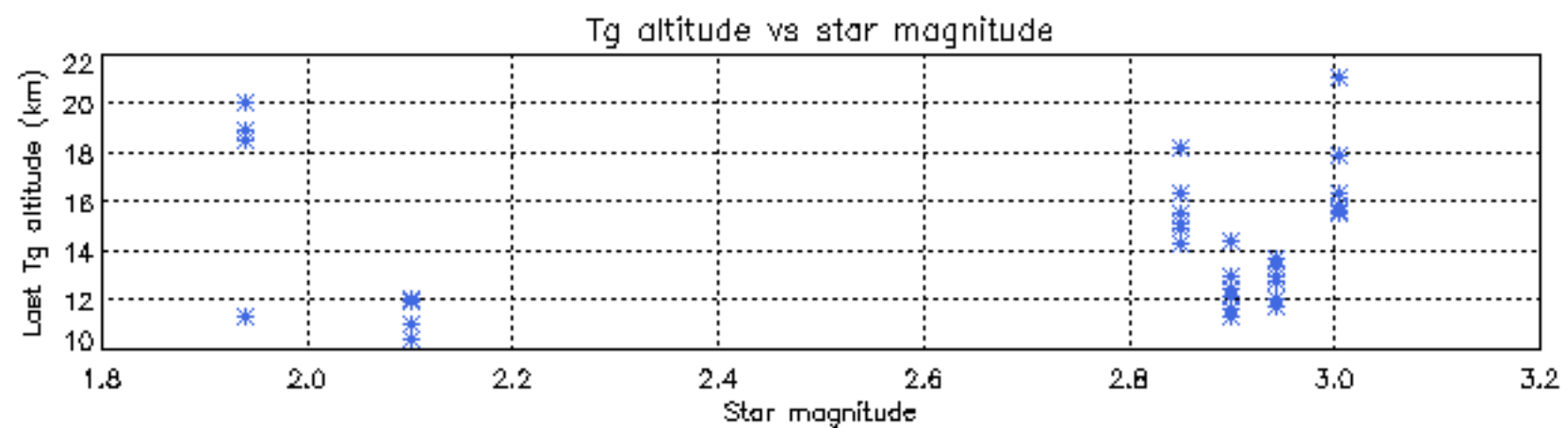
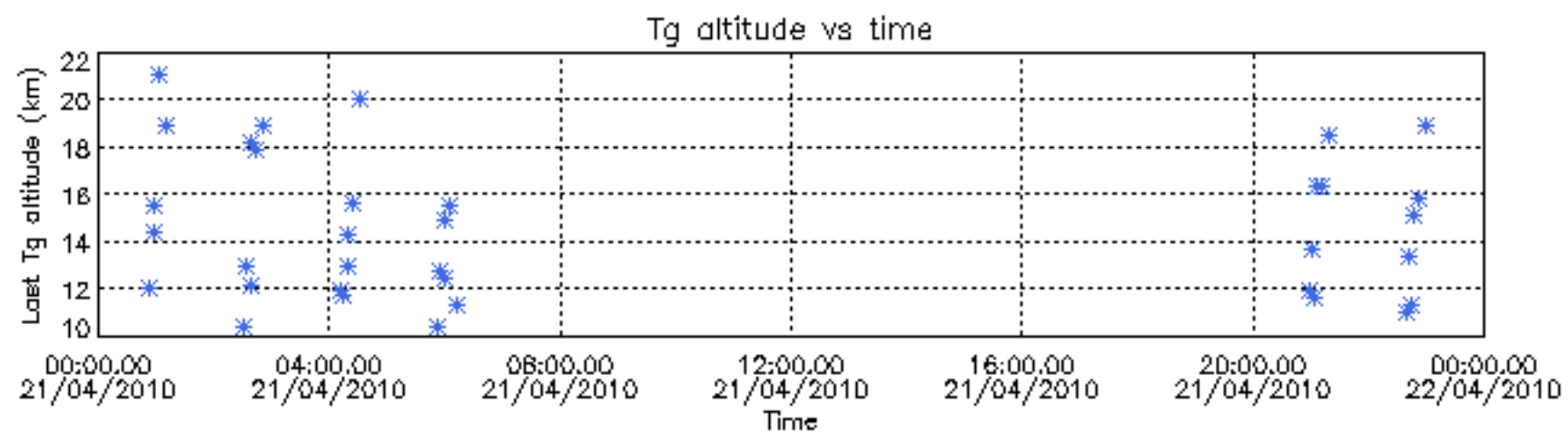
Percentage of star falling outside central band per profile



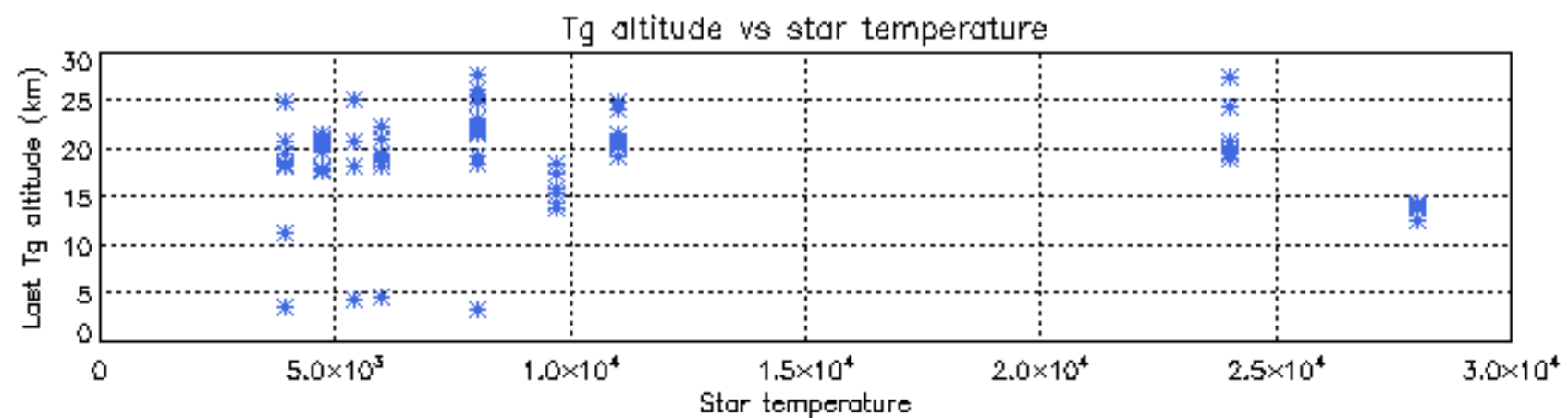
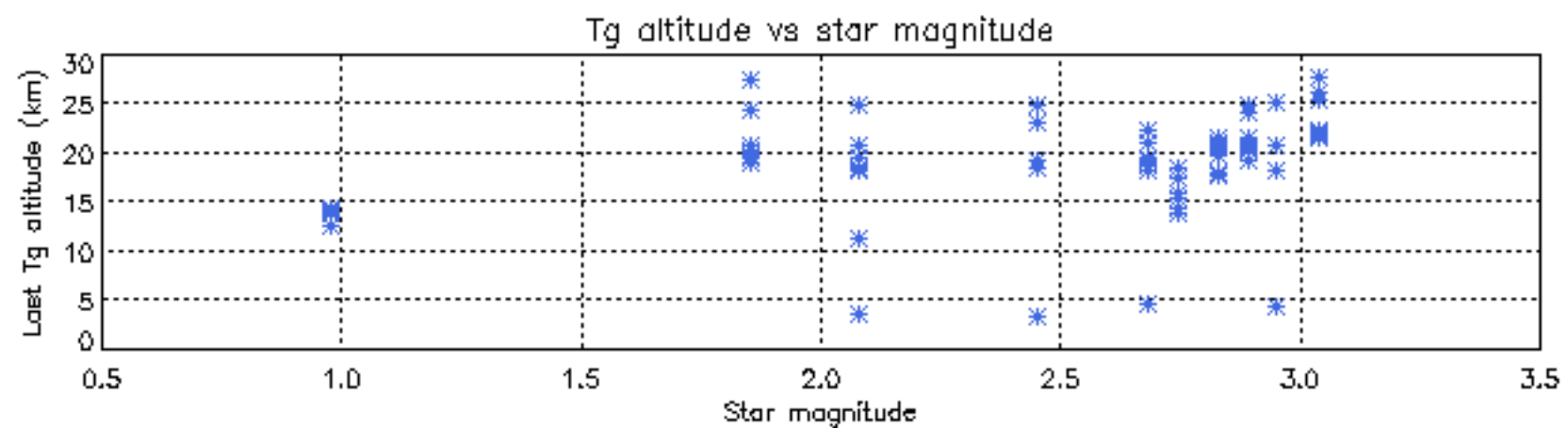
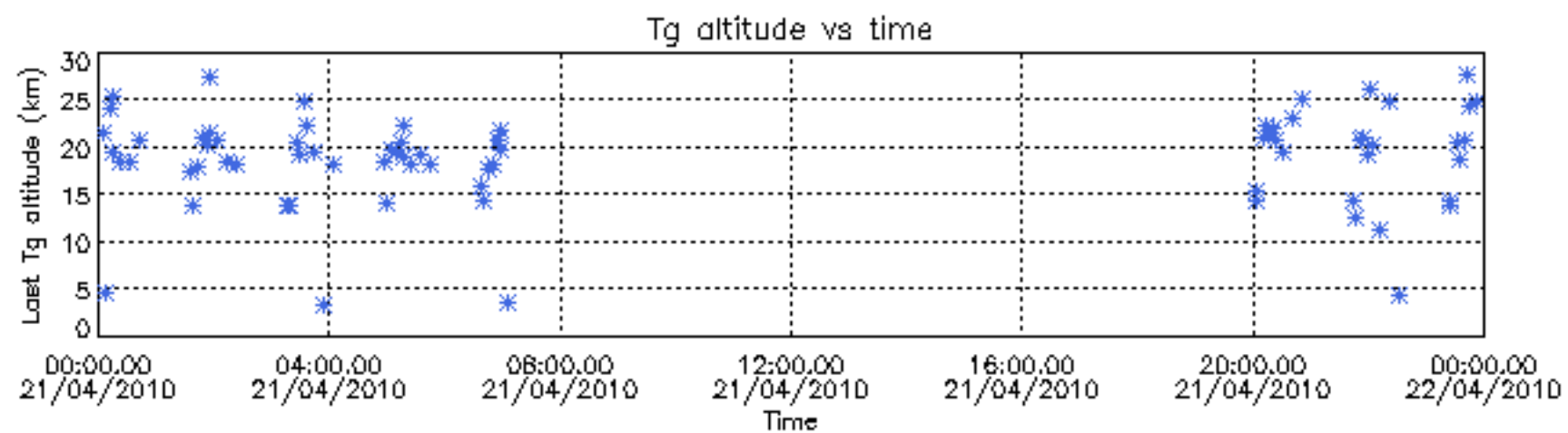
Percentage of saturation errors per profile

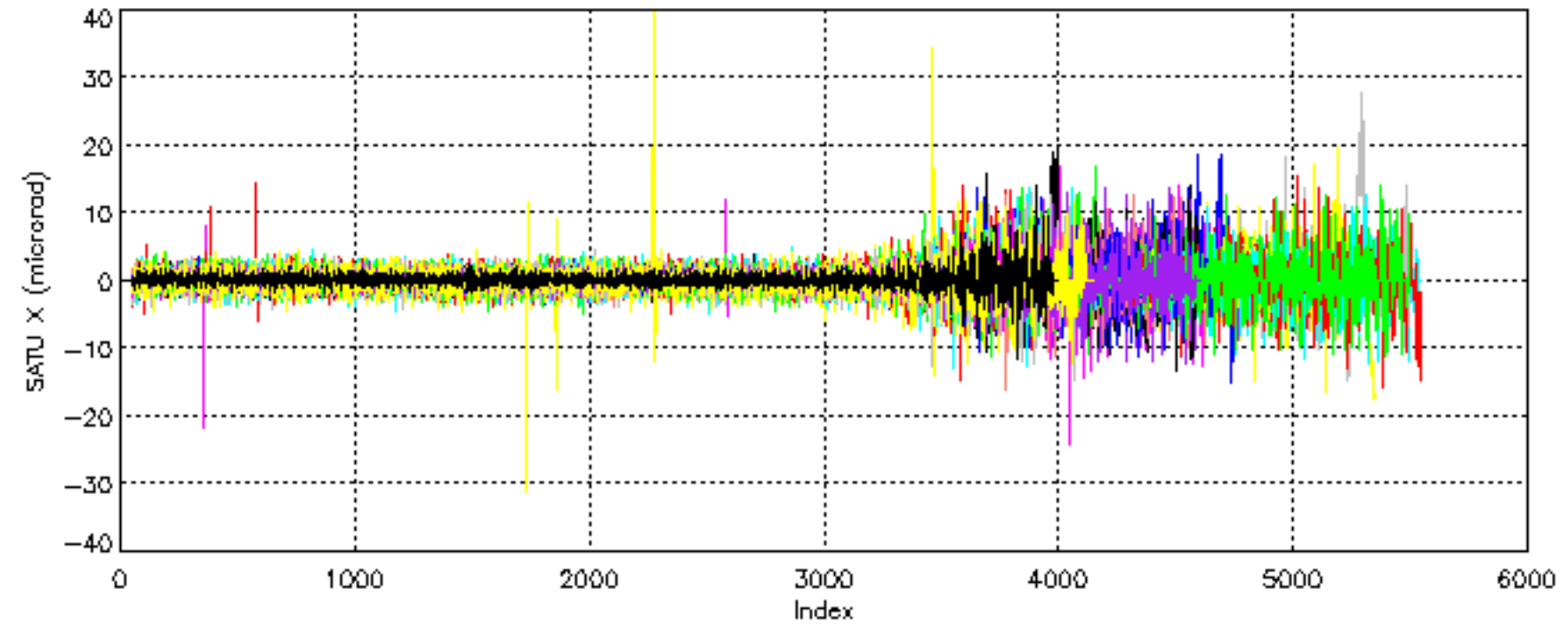


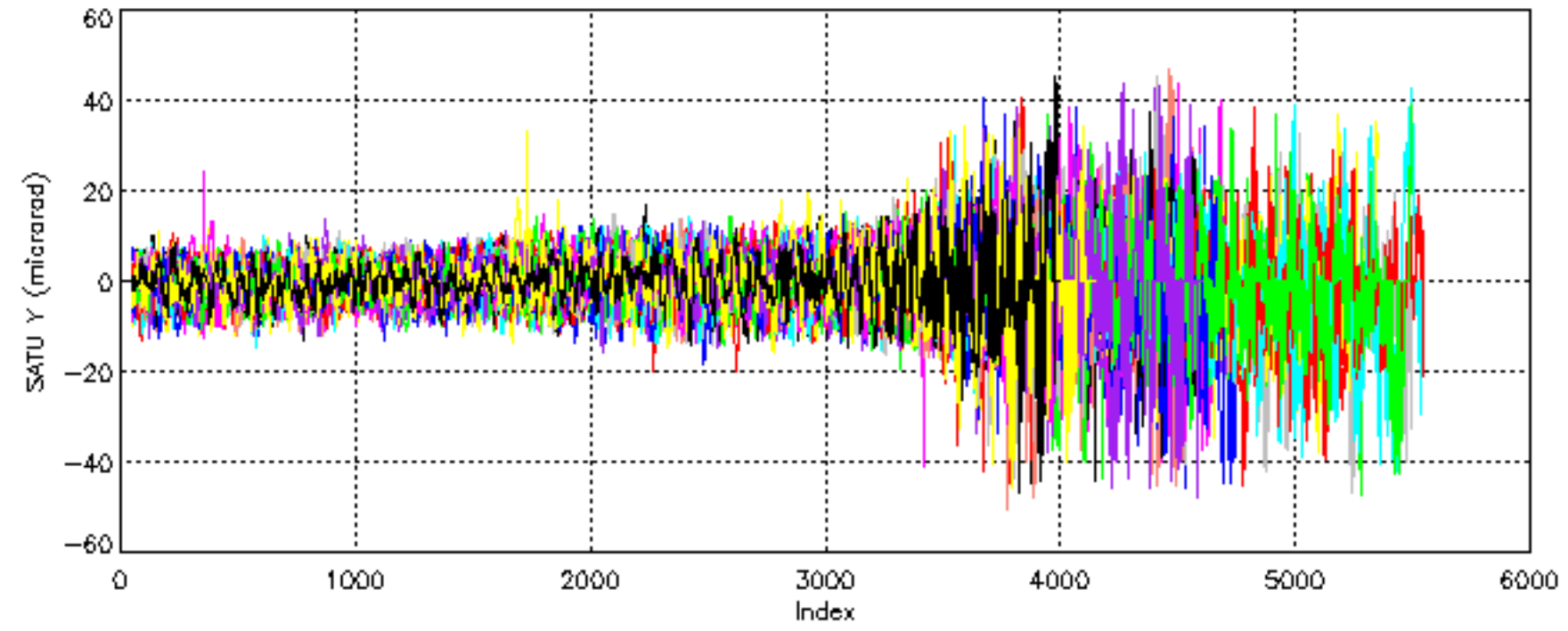
Tangent altitude at which the star is lost

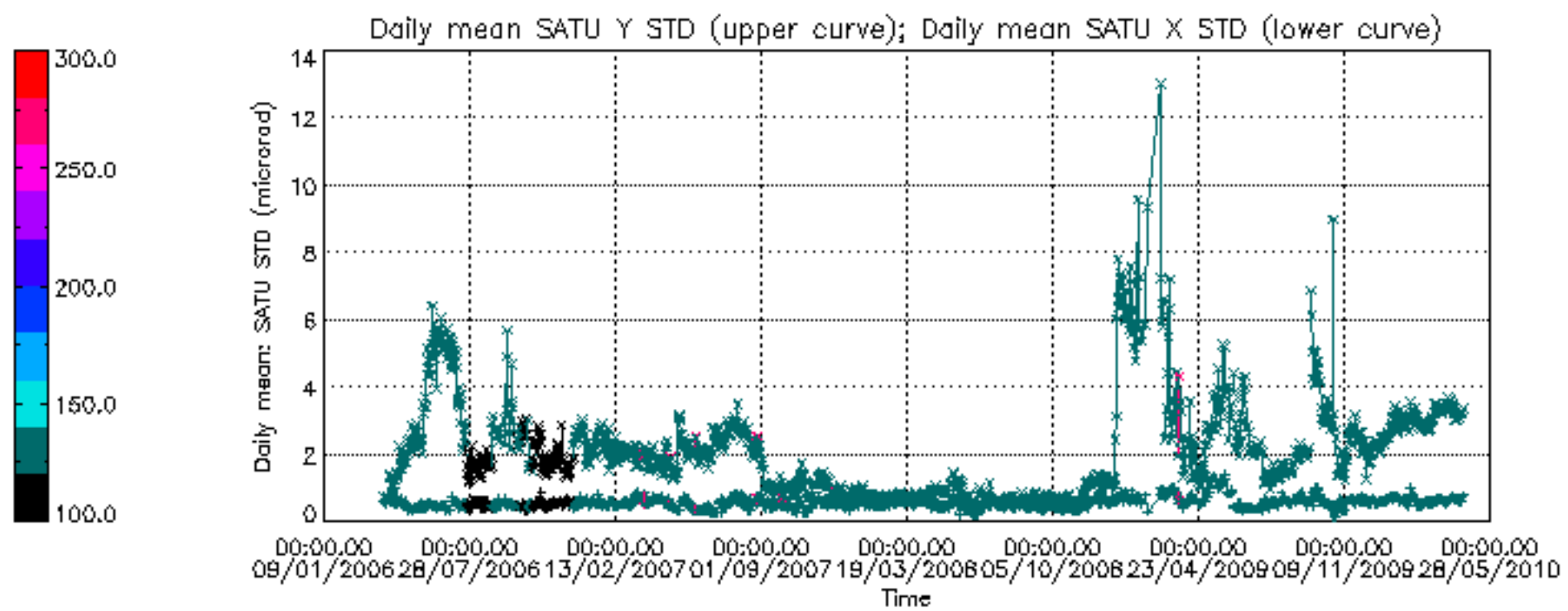


Tangent altitude at which the star is lost









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 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
 5; -314.5; 01-APR-2010 03:13:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42270
 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
 14; 1460.1; 01-APR-2010 03:42:44; Dark ; 47.5; 106; 9Bet Crv ; 2.65; 5600;occ; 95; 0;42271
 15; 1578.0; 01-APR-2010 03:44:42; Dark ; 43.5; 100; 4Gam Crv ; 2.58; 13100;occ; 87; 0;42271
 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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 3;-1723.1; 01-APR-2010 04:30:17; Bright; 44.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 89; 0;42271
 4;-1601.9; 01-APR-2010 04:32:18; Bright; 45.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 90; 0;42271
 5; -313.7; 01-APR-2010 04:53:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42271
 6; -146.6; 01-APR-2010 04:56:33; Dark ; 55.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 111; 0;42271
 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
 15; 1578.2; 01-APR-2010 05:25:18; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 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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1; 941.5; 01-APR-2010 20:20:05; Dark ; 46.5; 81; Eta Cen ; 2.36; 28000;occ; 93; 0;42281
 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
10; 2959.3; 01-APR-2010 20:53:43; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;42281
11; 3334.8; 01-APR-2010 20:59:58; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;42281
12; 3901.3; 01-APR-2010 21:09:25; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;42281
13; 4198.0; 01-APR-2010 21:14:21; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;42281
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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16; 4829.5; 01-APR-2010 21:24:53; Dark ; 47.5; 61; 8Eps Peg ; 2.10; 3900;occ; 95; 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
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9; 1105.1; 01-APR-2010 22:03:24; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;42282
10; 1462.2; 01-APR-2010 22:09:21; Dark ; 46.5; 106; 9Bet Crv ; 2.65; 5600;occ; 93; 0;42282
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14; 2159.5; 01-APR-2010 22:20:59; Bright; 40.5; 62; 94Bet Leo ; 2.14; 9700;occ; 81; 0;42282
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18; 3334.4; 01-APR-2010 22:40:34; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;42282
19; 3901.3; 01-APR-2010 22:50:01; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 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
23; 4829.9; 01-APR-2010 23:05:29; Dark ; 46.5; 61; 8Eps Peg ; 2.10; 3900;occ; 93; 0;42282
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2; -131.7; 01-APR-2010 23:23:23; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;42282
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
7; 846.3; 01-APR-2010 23:39:41; Dark ; 46.0; 78; Alp Lup ; 2.30; 28000;occ; 92; 0;42283
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10; 1462.5; 01-APR-2010 23:49:58; Dark ; 45.5; 106; 9Bet Crv ; 2.65; 5600;occ; 91; 0;42283
11; 1579.8; 01-APR-2010 23:51:55; Dark ; 44.5; 100; 4Gam Crv ; 2.58; 13100;occ; 89; 0;42283
12; 1687.6; 01-APR-2010 23:53:43; Dark ; 60.0; 15; 67Alp Vir ; 0.98; 28000;occ; 120; 0;42283
13; 1881.7; 01-APR-2010 23:56:57; Bright; 45.0; 121; 29Gam Vir ; 2.74; 7200;occ; 90; 0;42283
14; 2159.6; 02-APR-2010 00:01:35; Bright; 39.5; 62; 94Bet Leo ; 2.14; 9700;occ; 79; 0;42283
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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
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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
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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
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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
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17; 6553.4; 01-APR-2010 08:28:49; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;42274
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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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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
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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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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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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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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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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
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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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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
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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
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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
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 7; 3899.9; 03-APR-2010 10:02:34; Bright; 50.0; 89; 5Alp Cep ; 2.45; 8000;occ; 100; 0;42303
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4; 2653.9; 04-APR-2010 07:29:35; Bright; 43.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 86; 0;42316
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6; 2940.9; 04-APR-2010 07:34:22; Bright; 42.5; 32; 77Eps UMA ; 1.76; 11000;occ; 85; 0;42316
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7; 2838.0; 04-APR-2010 14:15:02; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;42320
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6; -898.8; 07-APR-2010 03:14:54; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;42356
7; -238.7; 07-APR-2010 03:25:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42356
8; -34.7; 07-APR-2010 03:29:19; Dark ; 53.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 107; 0;42356


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14; 1476.3; 07-APR-2010 03:54:30; Dark ; 45.0; 106; 9Bet Crv ; 2.65; 5600;occ; 90; 0;42357
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16; 1687.7; 07-APR-2010 03:58:01; Bright; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;42357
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9; 392.2; 07-APR-2010 05:17:02; Dark ; 55.5; 40; The Sco ; 1.86; 7100;occ; 111; 0;42358
10; 559.8; 07-APR-2010 05:19:49; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;42358
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13; 1141.6; 07-APR-2010 05:29:31; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;42358
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15; 1590.3; 07-APR-2010 05:37:00; Dark ; 41.0; 100; 4Gam Crv ; 2.58; 13100;occ; 82; 0;42358
16; 1687.7; 07-APR-2010 05:38:37; Bright; 52.0; 15; 67Alp Vir ; 0.98; 28000;occ; 104; 0;42358
17; 1875.9; 07-APR-2010 05:41:45; Bright; 41.5; 121; 29Gam Vir ; 2.74; 7200;occ; 83; 0;42358
18; 2155.4; 07-APR-2010 05:46:25; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;42358
19; 2633.4; 07-APR-2010 05:54:23; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;42358
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21; 2925.0; 07-APR-2010 05:59:14; Bright; 39.0; 32; 77Eps UMa ; 1.76; 11000;occ; 78; 0;42358
22; 3309.7; 07-APR-2010 06:05:39; Bright; 56.5; 60; 7Bet UMi ; 2.08; 3950;occ; 113; 0;42358
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4;-1592.6; 07-APR-2010 06:24:33; Bright; 48.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 96; 0;42358
5;-1183.1; 07-APR-2010 06:31:22; Dark ; 43.5; 61; 8Eps Peg ; 2.10; 3900;occ; 87; 0;42358
6; -898.1; 07-APR-2010 06:36:07; Dark ; 47.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 94; 0;42358
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9; 392.9; 07-APR-2010 06:57:38; Dark ; 60.0; 40; The Sco ; 1.86; 7100;occ; 120; 0;42359
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13; 1141.8; 07-APR-2010 07:10:07; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;42359
14; 1476.9; 07-APR-2010 07:15:42; Dark ; 43.5; 106; 9Bet Crv ; 2.65; 5600;occ; 87; 0;42359
15; 1590.6; 07-APR-2010 07:17:36; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;42359
16; 1688.0; 07-APR-2010 07:19:13; Bright; 49.5; 15; 67Alp Vir ; 0.98; 28000;occ; 99; 0;42359
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3; 2155.3; 07-APR-2010 07:27:01; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;42359
4; 2633.0; 07-APR-2010 07:34:58; Bright; 41.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 83; 0;42359
5; 2831.5; 07-APR-2010 07:38:17; Bright; 38.5; 87; 64Gam UMa ; 2.43; 11000;occ; 77; 0;42359
6; 2924.7; 07-APR-2010 07:39:50; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;42359
7; 3309.7; 07-APR-2010 07:46:15; Bright; 57.0; 60; 7Bet UMi ; 2.08; 3950;occ; 114; 0;42359
8; 3894.9; 07-APR-2010 07:56:00; Bright; 49.0; 89; 5Alp Cep ; 2.45; 8000;occ; 98; 0;42359
9; 4209.2; 07-APR-2010 08:01:14; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;42359
10; 4311.2; 07-APR-2010 08:02:56; Bright; 48.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 96; 0;42359
11; 4443.5; 07-APR-2010 08:05:09; Bright; 45.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 91; 0;42359
12; 4853.5; 07-APR-2010 08:11:59; Dark ; 45.0; 61; 8Eps Peg ; 2.10; 3900;occ; 90; 0;42359
13; 5138.5; 07-APR-2010 08:16:44; Dark ; 45.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 91; 0;42359

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 16; 6430.3; 07-APR-2010 08:38:16; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;42360
 17; 6596.6; 07-APR-2010 08:41:02; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;42360
 18; 6927.2; 07-APR-2010 08:46:32; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;42360
 19; 7024.1; 07-APR-2010 08:48:09; Dark ; 46.5; 81; Eta Cen ; 2.36; 28000;occ; 93; 0;42360
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 21; 7512.9; 07-APR-2010 08:56:18; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;42360
 22; 7626.5; 07-APR-2010 08:58:12; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;42360
 23; 7723.7; 07-APR-2010 08:59:49; Bright; 50.0; 15; 67Alp Vir ; 0.98; 28000;occ; 100; 0;42360

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 5; 2924.0; 07-APR-2010 09:20:25; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;42360
 6; 3309.3; 07-APR-2010 09:26:50; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;42360
 7; 3895.0; 07-APR-2010 09:36:36; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;42360
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 9; 4310.9; 07-APR-2010 09:43:32; Bright; 49.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 98; 0;42360
 10; 4443.6; 07-APR-2010 09:45:45; Bright; 48.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 96; 0;42360
 11; 4853.4; 07-APR-2010 09:52:35; Dark ; 49.5; 61; 8Eps Peg ; 2.10; 3900;occ; 99; 0;42360
 12; 5139.1; 07-APR-2010 09:57:20; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;42360
 13; 5801.0; 07-APR-2010 10:08:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42360
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 17; 6927.5; 07-APR-2010 10:27:09; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;42361
 18; 7024.1; 07-APR-2010 10:28:45; Dark ; 45.0; 81; Eta Cen ; 2.36; 28000;occ; 90; 0;42361
 19; 7178.8; 07-APR-2010 10:31:20; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;42361
 20; 7513.2; 07-APR-2010 10:36:54; Dark ; 44.5; 106; 9Bet Crv ; 2.65; 5600;occ; 89; 0;42361
 21; 7626.6; 07-APR-2010 10:38:48; Dark ; 43.5; 100; 4Gam Crv ; 2.58; 13100;occ; 87; 0;42361
 22; 7723.7; 07-APR-2010 10:40:25; Bright; 52.0; 15; 67Alp Vir ; 0.98; 28000;occ; 104; 0;42361

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 3; 2155.3; 07-APR-2010 10:48:12; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;42361
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 6; 2923.6; 07-APR-2010 11:01:01; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;42361
 7; 3308.8; 07-APR-2010 11:07:26; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;42361
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 9; 4208.8; 07-APR-2010 11:22:26; Bright; 47.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 95; 0;42361
 10; 4310.8; 07-APR-2010 11:24:08; Bright; 46.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 93; 0;42361
 11; 4443.7; 07-APR-2010 11:26:21; Bright; 47.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 95; 0;42361
 12; 4853.9; 07-APR-2010 11:33:11; Dark ; 48.5; 61; 8Eps Peg ; 2.10; 3900;occ; 97; 0;42361
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 16; 6432.4; 07-APR-2010 11:59:29; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;42362
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 3; 1875.7; 07-APR-2010 12:24:09; Bright; 40.5; 121; 29Gam Vir ; 2.74; 7200;occ; 81; 0;42362
 4; 2155.3; 07-APR-2010 12:28:48; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;42362
 5; 2631.8; 07-APR-2010 12:36:45; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;42362
 6; 2830.8; 07-APR-2010 12:40:04; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;42362
 7; 2923.3; 07-APR-2010 12:41:36; Bright; 39.0; 32; 77Eps UMa ; 1.76; 11000;occ; 78; 0;42362
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 9; 3894.9; 07-APR-2010 12:57:48; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;42362
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 13; 4854.2; 07-APR-2010 13:13:47; Dark ; 49.0; 61; 8Eps Peg ; 2.10; 3900;occ; 98; 0;42362
 14; 5139.7; 07-APR-2010 13:18:33; Dark ; 44.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 88; 0;42362
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8; 3846.3; 26-APR-2010 16:21:01; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;42636
9; 4498.4; 26-APR-2010 16:31:53; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;42636
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4; 1704.9; 26-APR-2010 17:25:56; Bright; 40.5; 15; 67Alp Vir ; 0.98; 28000;occ; 81; 0;42637
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4; 1584.0; 26-APR-2010 19:04:31; Bright; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;42638
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22; 6632.0; 26-APR-2010 20:28:39; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;42639
23; 6726.0; 26-APR-2010 20:30:13; Dark ; 58.0; 40; The Sco ; 1.86; 7100;occ; 116; 0;42639

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6; 596.8; 26-APR-2010 22:09:16; Dark ; 46.5; 141; Bet Ara ; 2.84; 4600;occ; 93; 0;42640
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3; 1239.4; 26-APR-2010 20:39:22; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;42639
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9; 2246.1; 26-APR-2010 22:36:45; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;42640
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8; 2472.6; 29-APR-2010 00:58:29; Bright; 48.0; 83; ; 2.38; 11000;occ; 96; 0;42670
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