

GOMOS Daily Report 21-OCT-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	24OCT2010 04:32:40
Data source version	GOMOS/5.01
Start time of products	21OCT2010 00:05:24
Stop time of products	21OCT2010 00:05:24
Store outputs in DB	Yes
Nb of level 1b prods	1
Nb of prods with errors	0

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

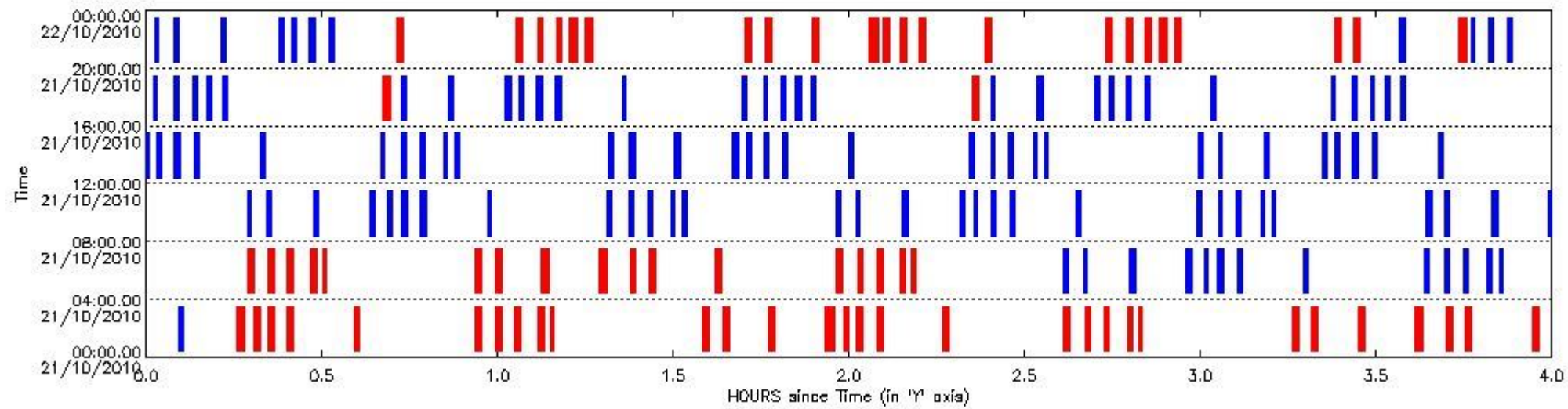
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

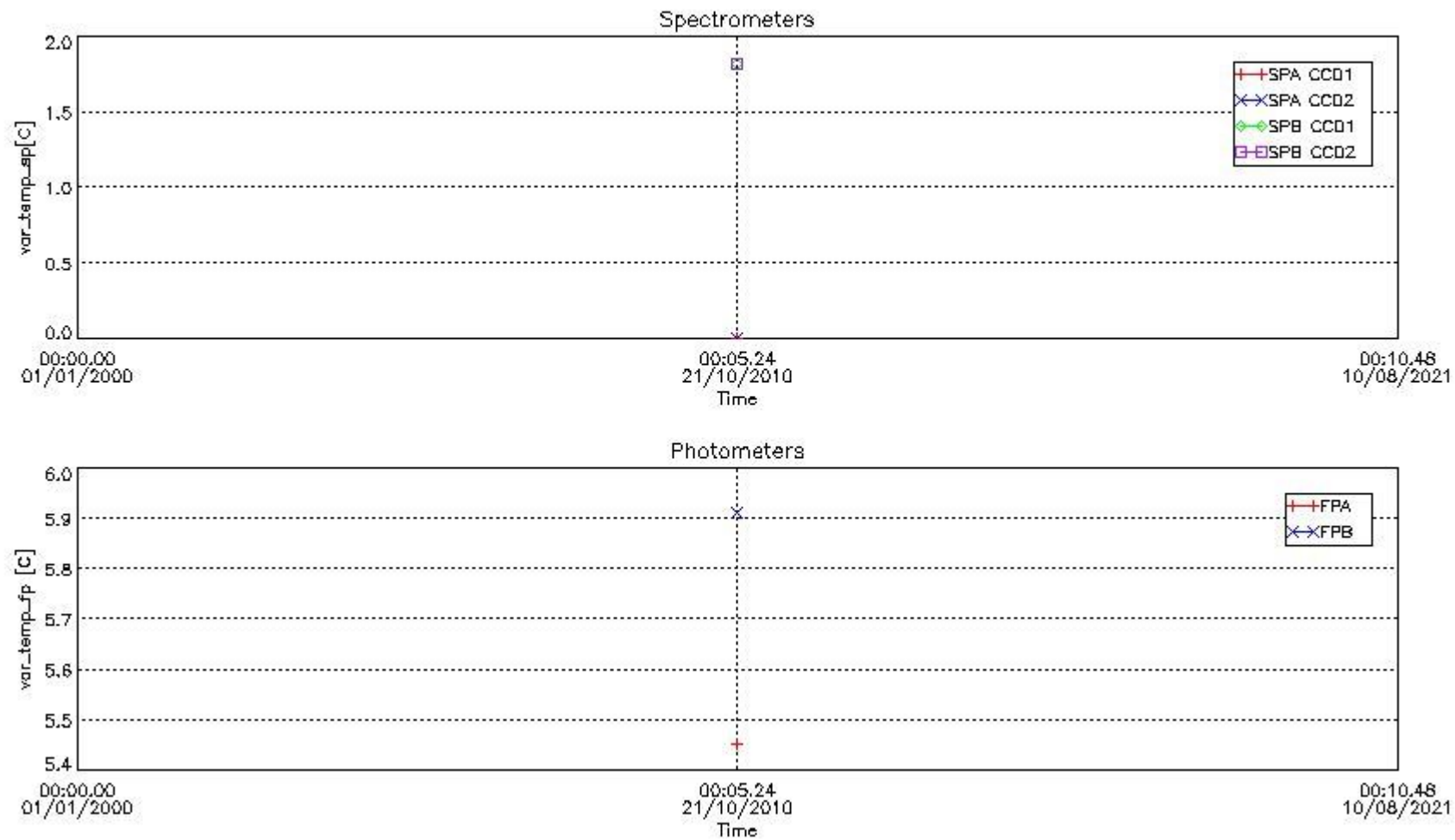
UTC start time	Star name	Star ID	Orbit
21-OCT-2010 00:15:19	15RhoPup	132	45174
21-OCT-2010 00:18:24	Gam2Vel	34	45175
21-OCT-2010 00:20:44	DSA1055	0	45175
21-OCT-2010 00:24:03	AlpCar	2	45175
21-OCT-2010 00:35:26	The1Eri	157	45175
21-OCT-2010 00:56:05	6BetAri	105	45175
21-OCT-2010 00:59:43	43BetAnd	53	45175
21-OCT-2010 01:02:52	57Gam1And	73	45175
21-OCT-2010 01:06:55	37DelCas	110	45175
21-OCT-2010 01:08:53	39DelPer	175	45175
21-OCT-2010 01:35:01	17EpsLeo	166	45175
21-OCT-2010 01:38:25	32AlpLeo	22	45175
21-OCT-2010 01:46:17	30AlpHya	48	45175
21-OCT-2010 01:55:56	15RhoPup	132	45175
21-OCT-2010 01:59:01	Gam2Vel	34	45176

21-OCT-2010 02:01:21	DSA1055	0	45176
21-OCT-2010 02:04:40	AlpCar	2	45176
21-OCT-2010 02:16:03	The1Eri	157	45176
21-OCT-2010 02:36:40	6BetAri	105	45176
21-OCT-2010 02:40:18	43BetAnd	53	45176
21-OCT-2010 02:43:27	57Gam1And	73	45176
21-OCT-2010 02:47:31	37DelCas	110	45176
21-OCT-2010 02:49:28	39DelPer	175	45176
21-OCT-2010 03:15:37	17EpsLeo	166	45176
21-OCT-2010 03:19:01	32AlpLeo	22	45176
21-OCT-2010 03:26:53	30AlpHya	48	45176
21-OCT-2010 03:36:34	15RhoPup	132	45176
21-OCT-2010 03:41:58	DSA1055	0	45177
21-OCT-2010 03:45:17	AlpCar	2	45177
21-OCT-2010 03:56:39	The1Eri	157	45177
21-OCT-2010 04:17:16	6BetAri	105	45177
21-OCT-2010 04:20:54	43BetAnd	53	45177
21-OCT-2010 04:24:02	57Gam1And	73	45177
21-OCT-2010 04:28:07	37DelCas	110	45177
21-OCT-2010 04:30:02	39DelPer	175	45177
21-OCT-2010 04:56:14	17EpsLeo	166	45177
21-OCT-2010 04:59:37	32AlpLeo	22	45177
21-OCT-2010 05:07:30	30AlpHya	48	45177
21-OCT-2010 05:17:11	15RhoPup	132	45177
21-OCT-2010 05:22:35	DSA1055	0	45178
21-OCT-2010 05:25:54	AlpCar	2	45178
21-OCT-2010 05:37:15	The1Eri	157	45178
21-OCT-2010 05:57:51	6BetAri	105	45178
21-OCT-2010 06:01:30	43BetAnd	53	45178
21-OCT-2010 06:04:38	57Gam1And	73	45178
21-OCT-2010 06:08:42	37DelCas	110	45178
21-OCT-2010 06:10:37	39DelPer	175	45178
21-OCT-2010 16:40:27	17EpsLeo	166	45184
21-OCT-2010 18:21:03	17EpsLeo	166	45185
21-OCT-2010 20:42:43	The1Eri	157	45187
21-OCT-2010 21:03:11	6BetAri	105	45187
21-OCT-2010 21:06:51	43BetAnd	53	45187
21-OCT-2010 21:09:57	57Gam1And	73	45187
21-OCT-2010 21:12:19	26BetPer	79	45187
21-OCT-2010 21:15:01	23GamPer	160	45187
21-OCT-2010 21:42:16	17EpsLeo	166	45187
21-OCT-2010 21:45:41	32AlpLeo	22	45187
21-OCT-2010 21:53:38	30AlpHya	48	45187
21-OCT-2010 22:03:26	15RhoPup	132	45187
21-OCT-2010 22:05:48	ZetPup	70	45188
21-OCT-2010 22:08:43	DSA1055	0	45188
21-OCT-2010 22:12:01	AlpCar	2	45188
21-OCT-2010 22:23:19	The1Eri	157	45188
21-OCT-2010 22:43:47	6BetAri	105	45188
21-OCT-2010 22:47:27	43BetAnd	53	45188
21-OCT-2010 22:50:32	57Gam1And	73	45188
21-OCT-2010 22:52:54	26BetPer	79	45188
21-OCT-2010 22:55:36	23GamPer	160	45188
21-OCT-2010 23:22:52	17EpsLeo	166	45188
21-OCT-2010 23:26:17	32AlpLeo	22	45188
21-OCT-2010 23:44:03	15RhoPup	132	45188

!Warning: No products without errors in BRIGHT limb conditions found

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101021_000524_000000542094_00030_45174_3745.N1	21-OCT-2010 00:05:24	Dark	53.500	48	30Alp Hya	1.9770	4100.0	107	45174	No

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



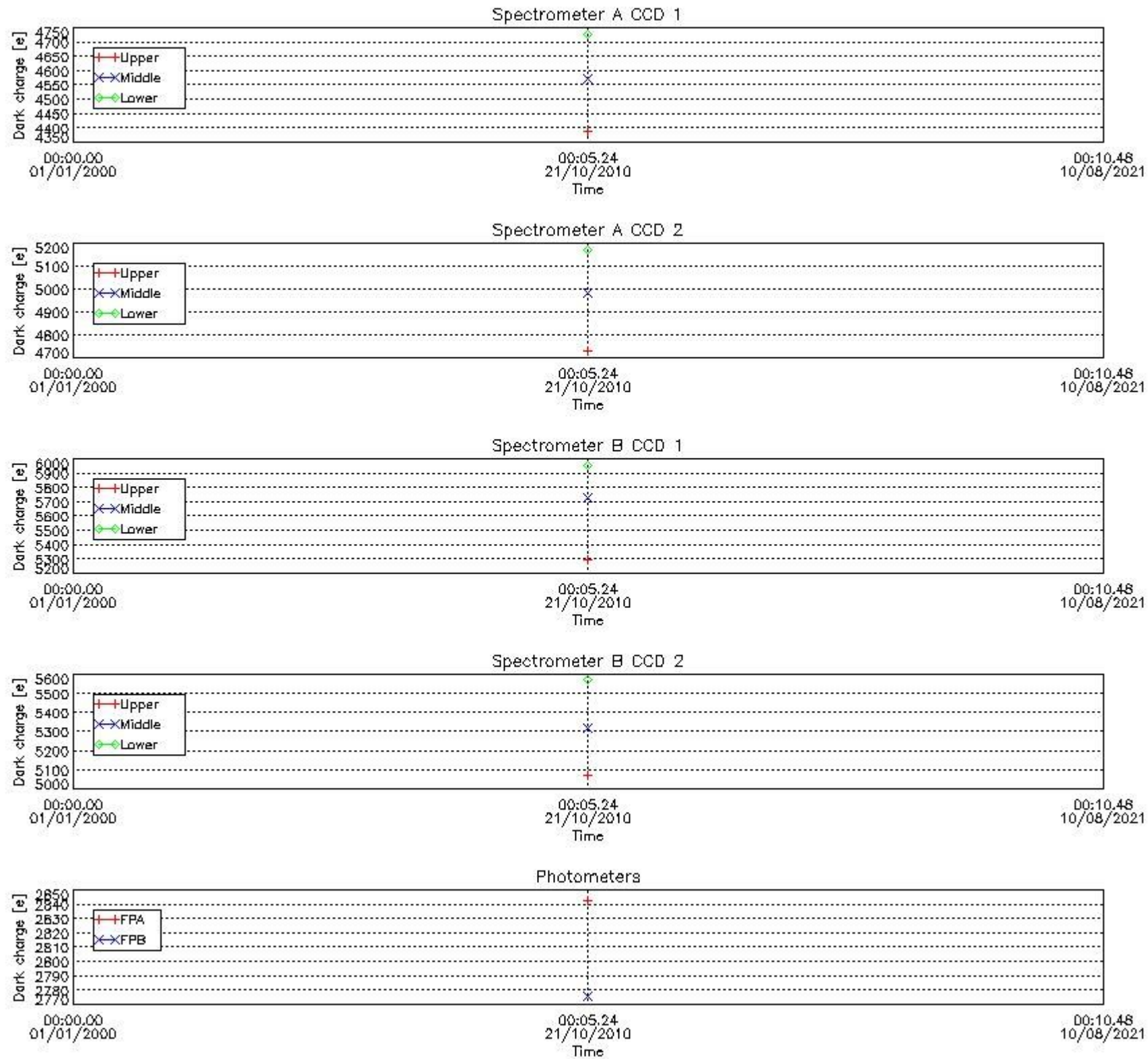
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



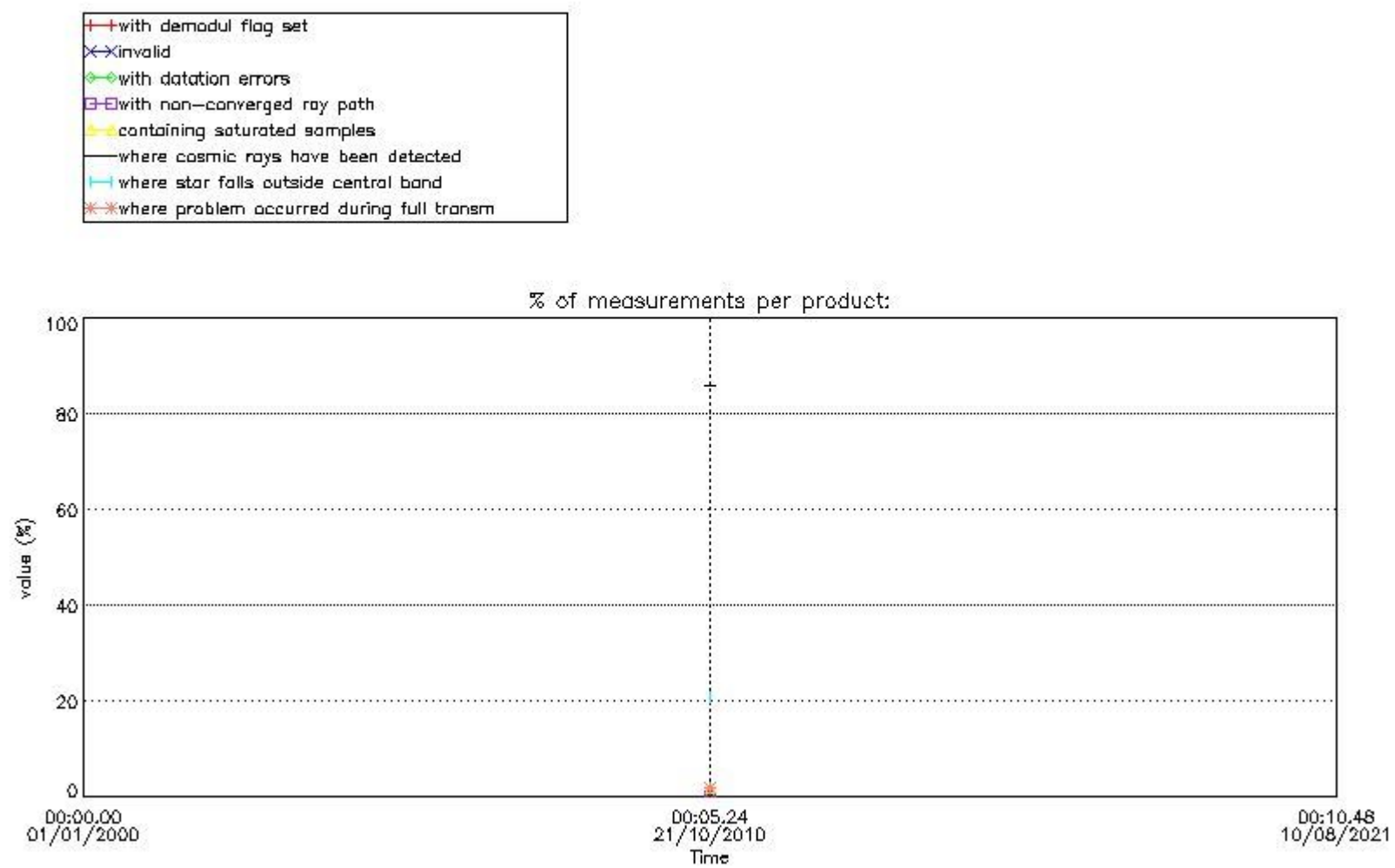
5. Demodulation flag and quality information monitoring

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.

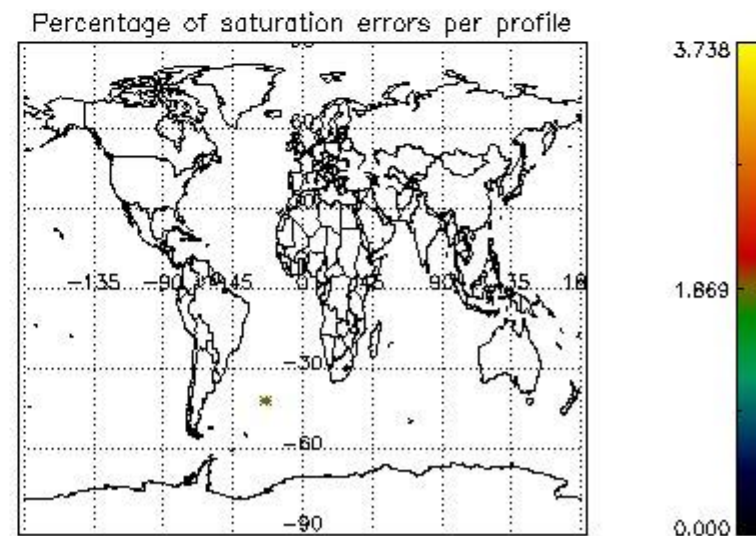
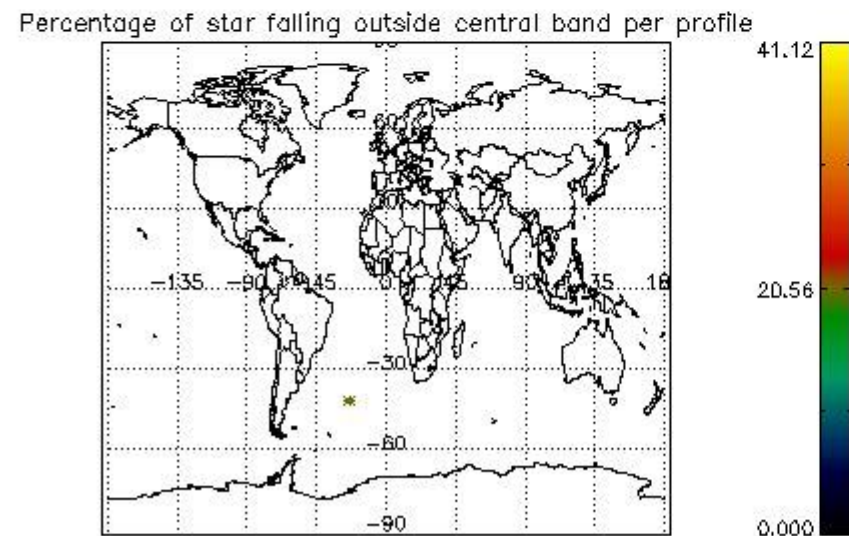
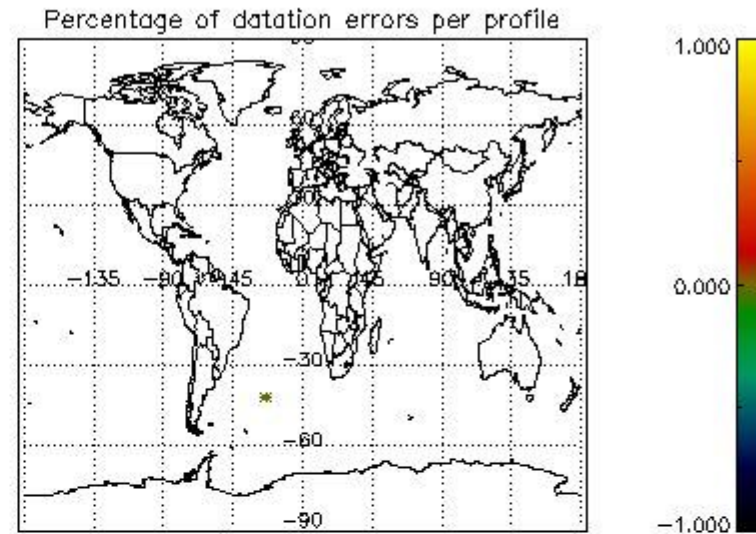
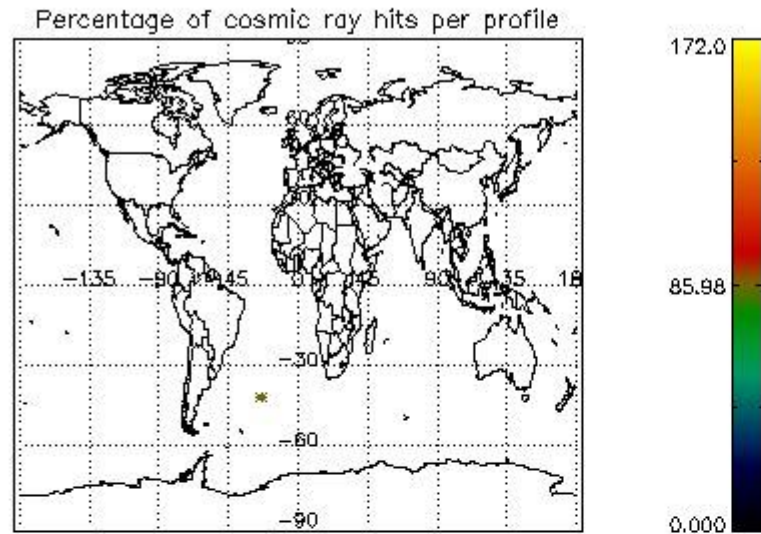
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	100.000 %
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)



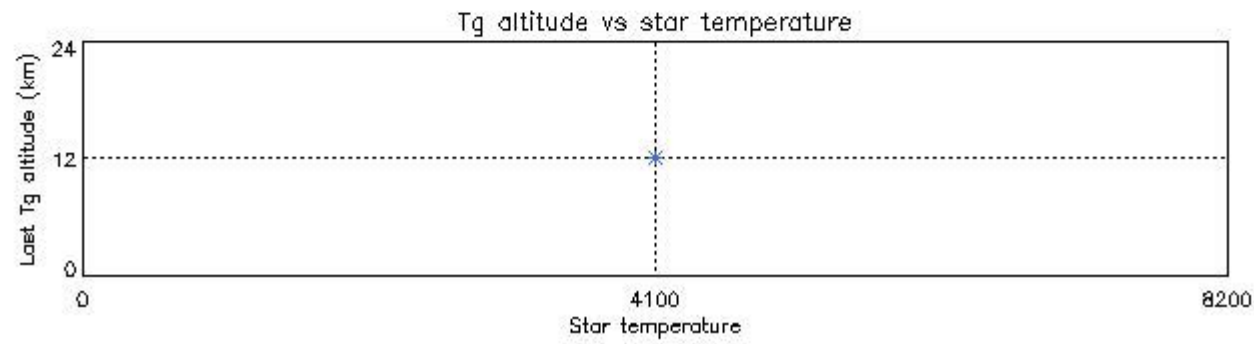
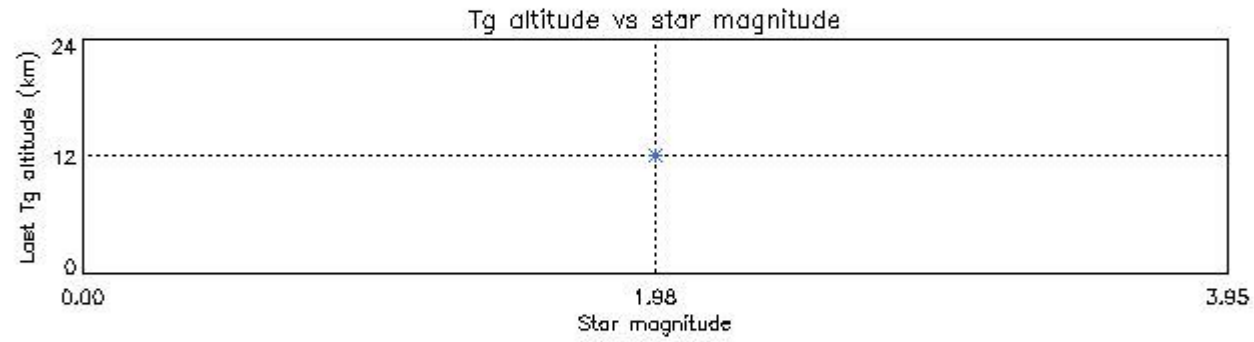
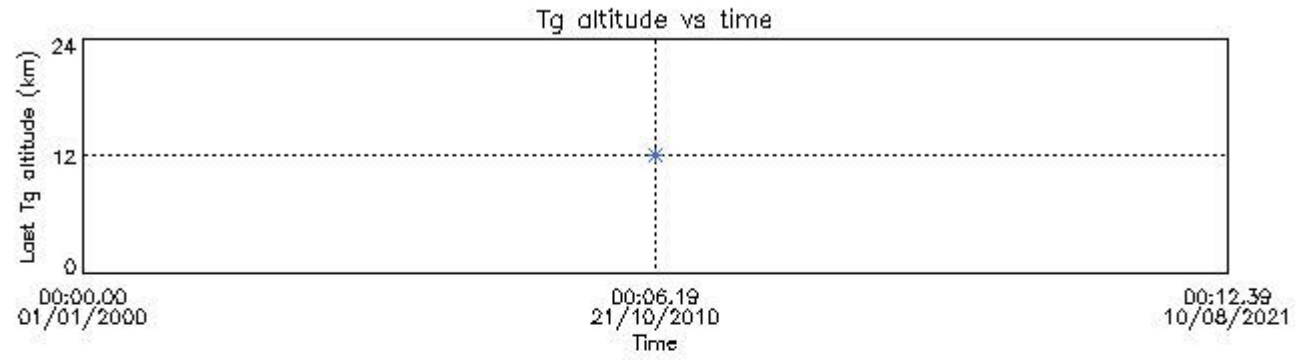
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.070	NaN	NaN
St. deviation:	0.0000	NaN	NaN
Maximum:	12.070	NaN	NaN
Minimum:	12.070	NaN	NaN
Number of data:	1.0000	NaN	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

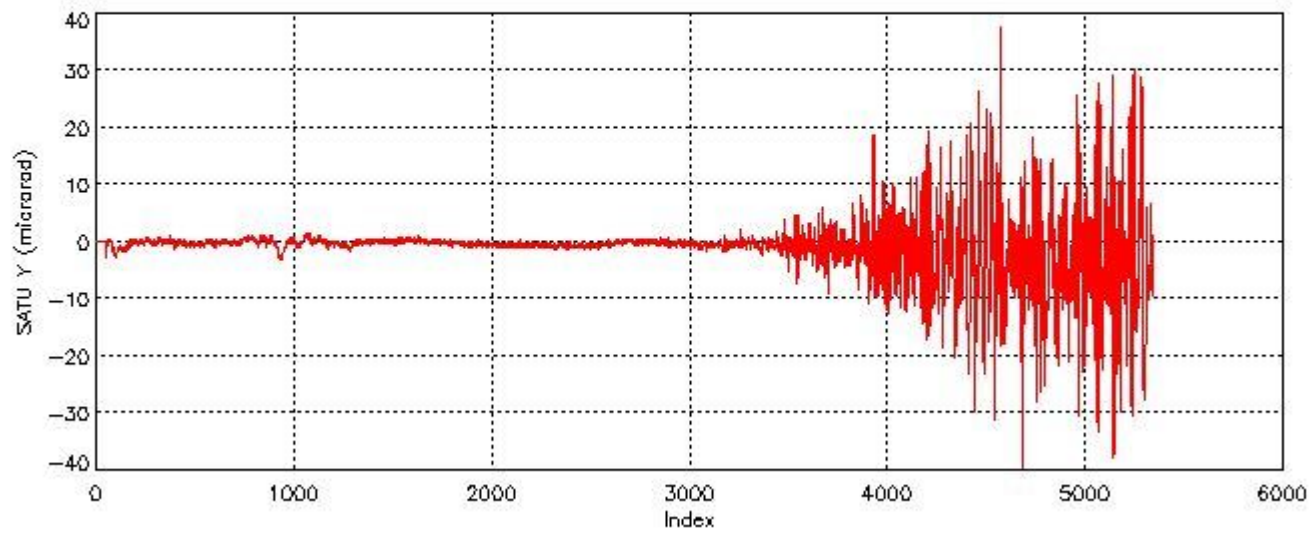
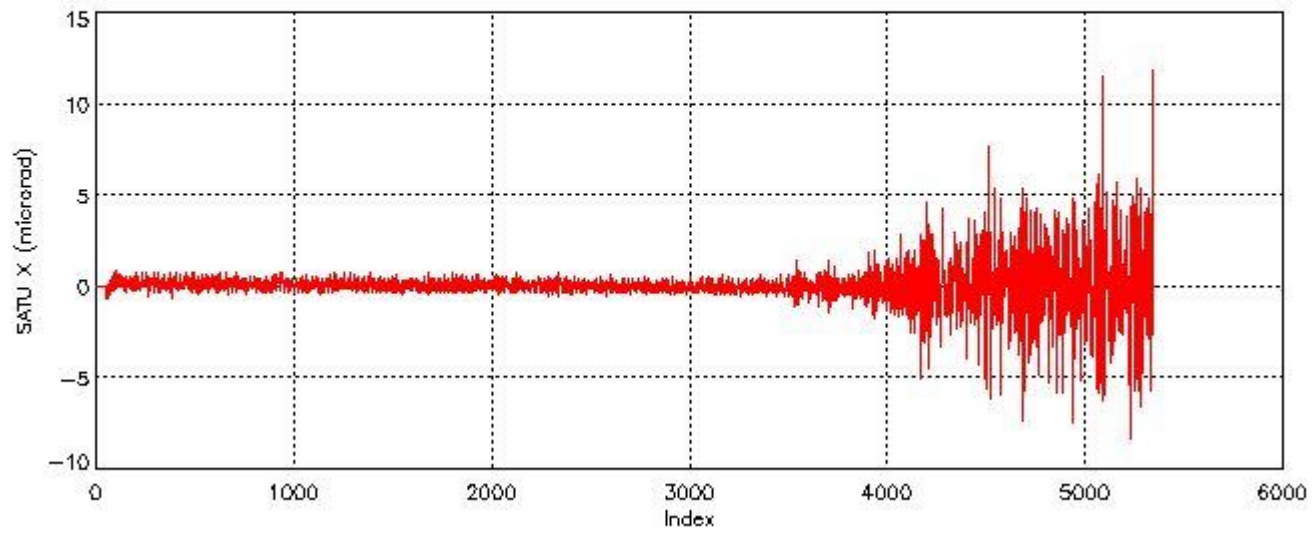


7. Star Acquisition and Tracking Unit (SATU)

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:	0.13200	-0.27933	NaN	NaN
St. deviation:	0.23592	0.70789	NaN	NaN
Maximum:	0.90000	1.2000	NaN	NaN
Minimum:	-0.70000	-3.3000	NaN	NaN

Number of data:	1050.0	1050.0	NaN	NaN
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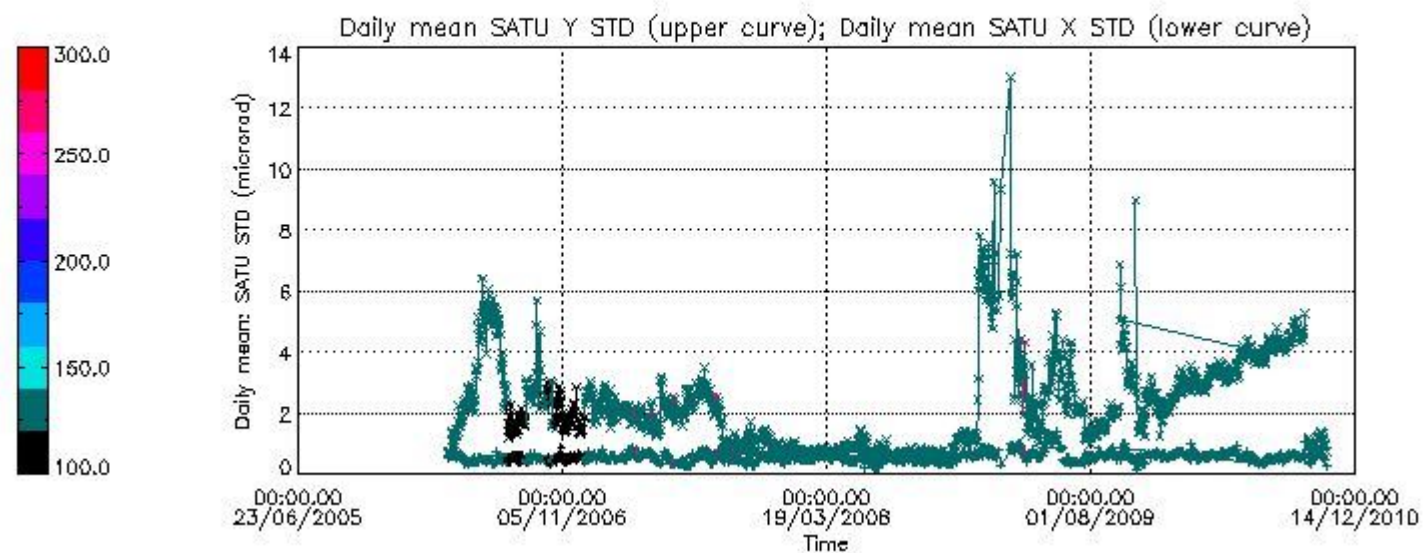
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

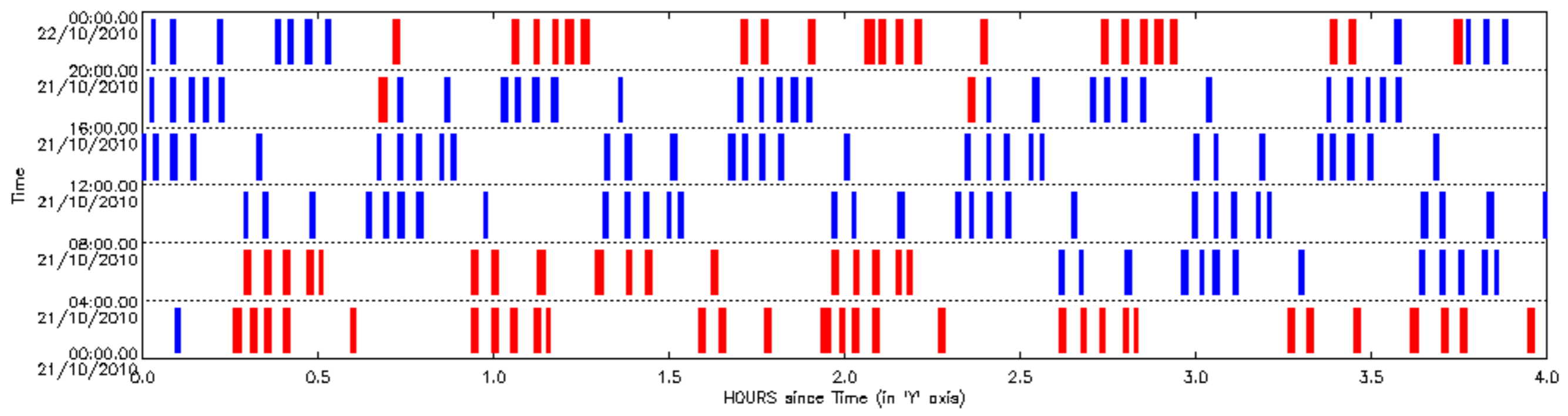
Lower curve: STD of SATU X axis

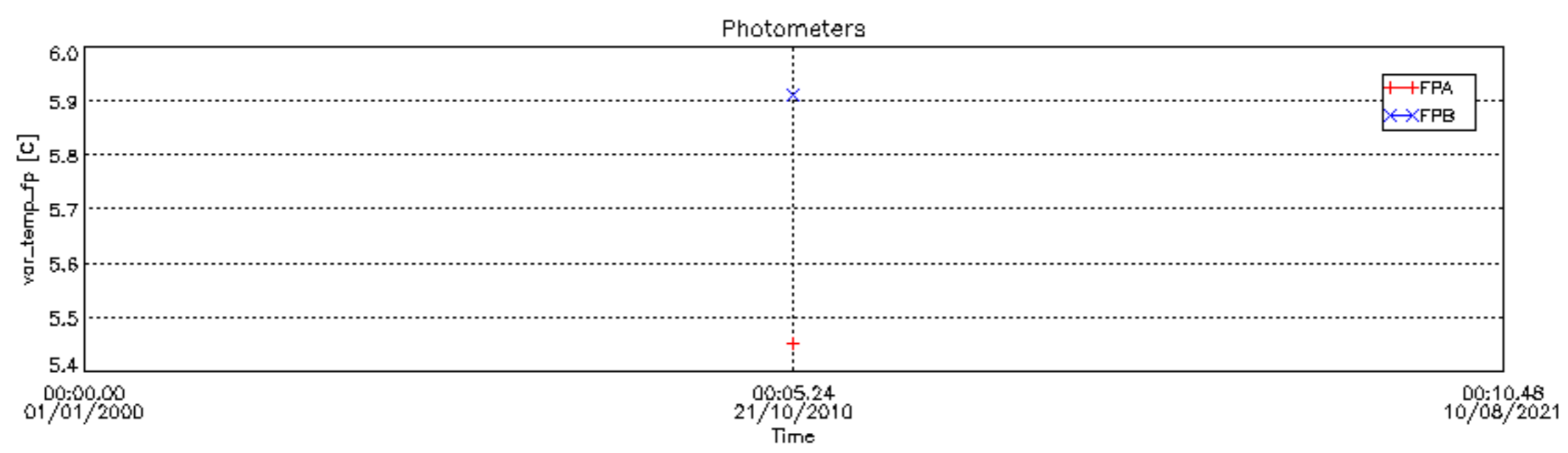
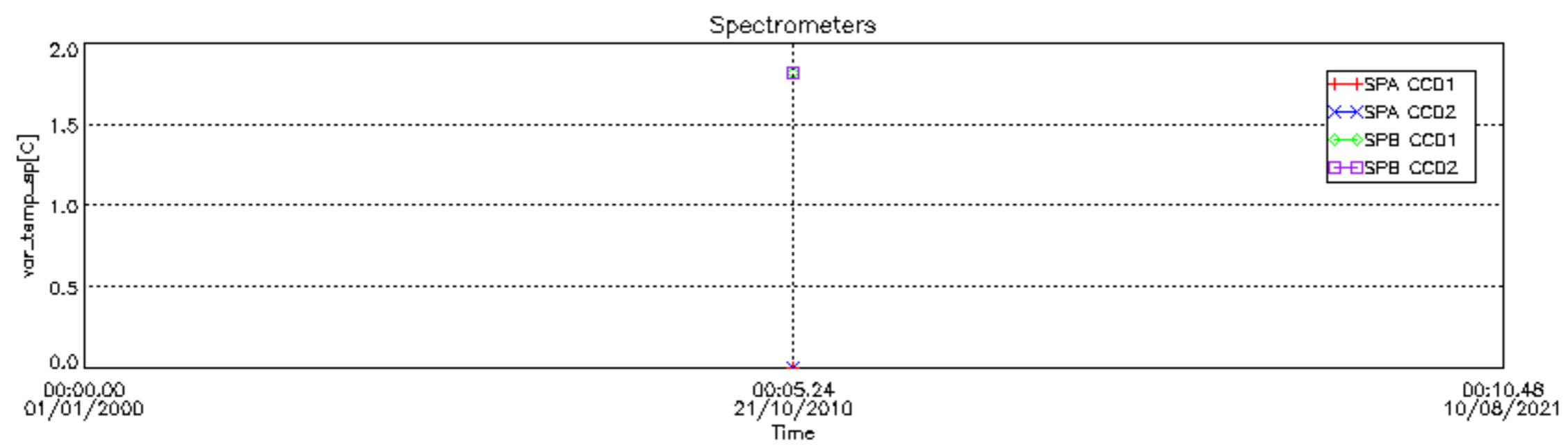


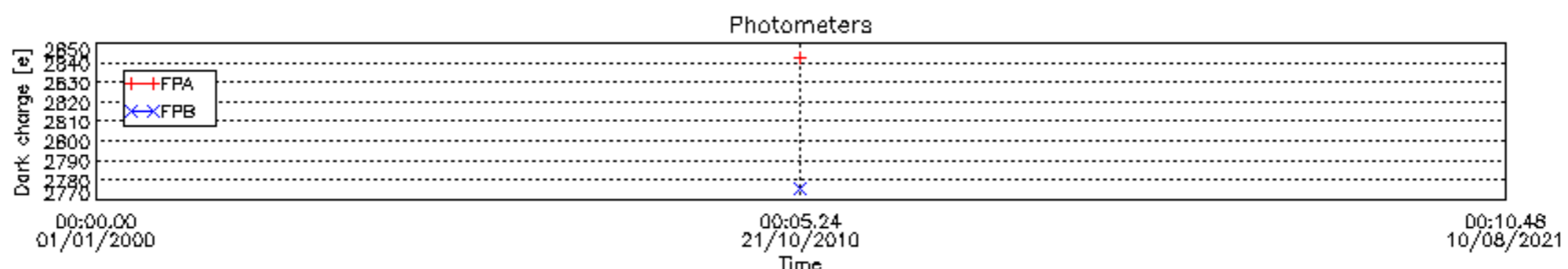
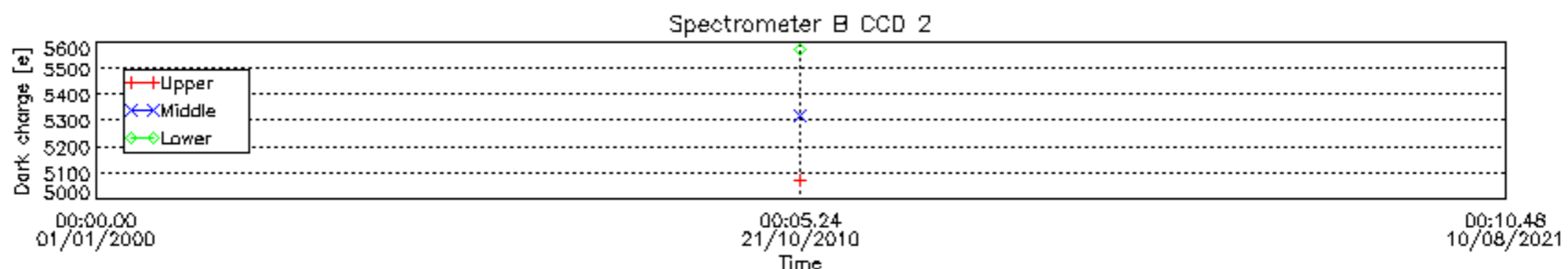
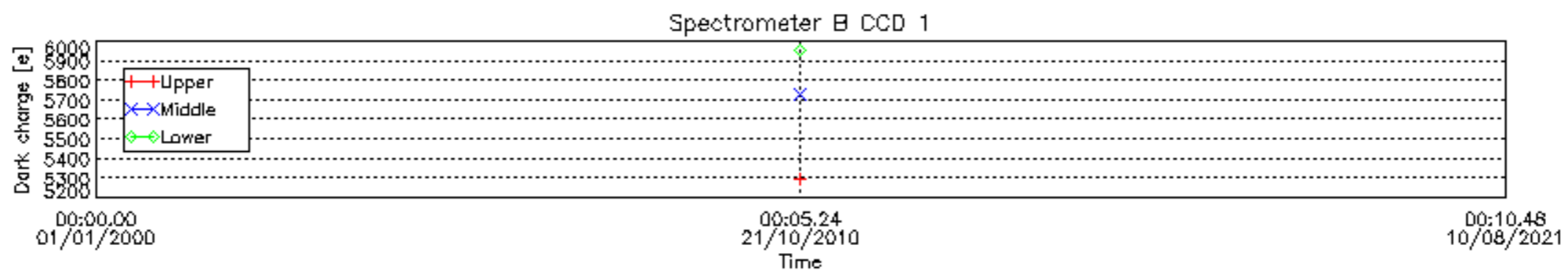
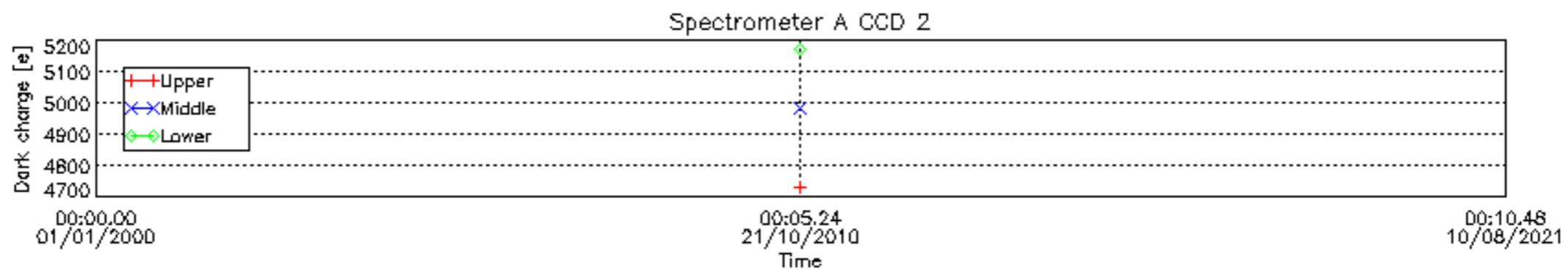
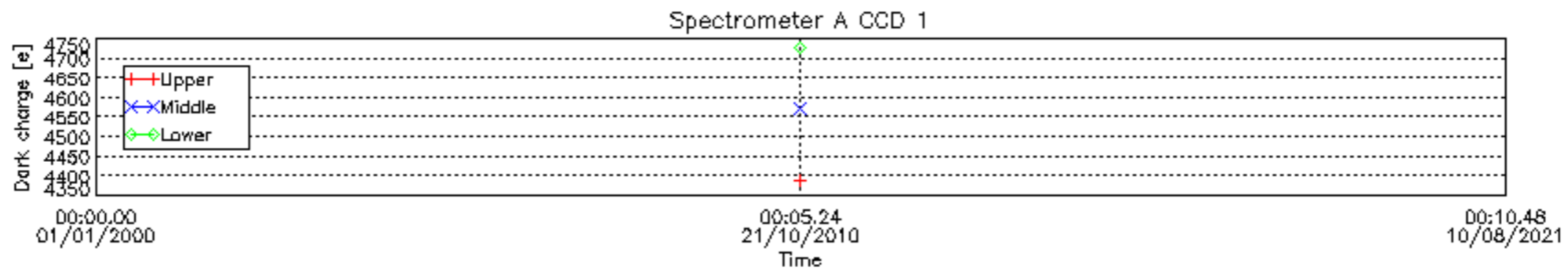
8. Auxiliary Data Files used for the production reported in section 2.4

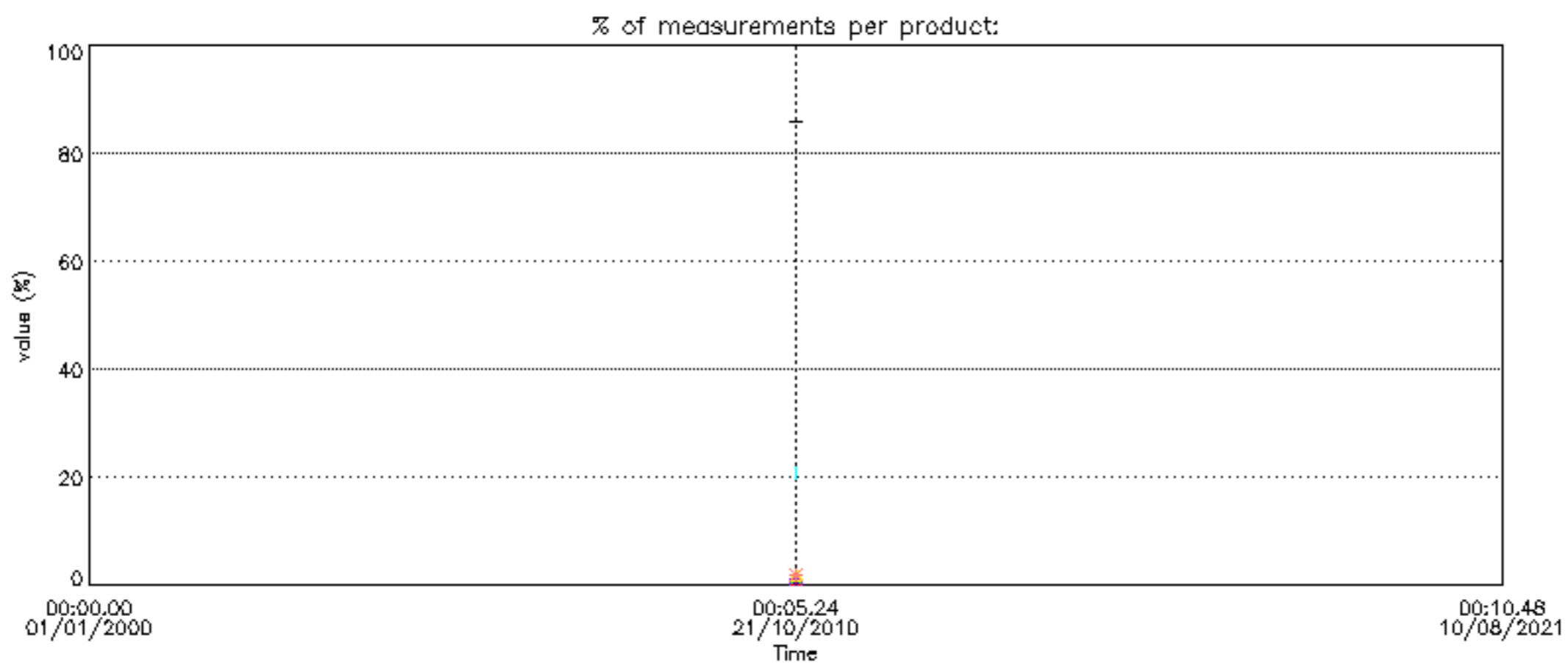
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-OCT-2010 00:05:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101020_091716_20101018_000000_20500101_000000	1	21-OCT-2010 00:05:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	21-OCT-2010 00:05:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-OCT-2010 00:05:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	21-OCT-2010 00:05:24
ECMWF_FILE	AUX_ECF_AXNECM20101020_062906_20101020_210000_20101021_090000	1	21-OCT-2010 00:05:24
OPTIONAL_ECMWF_FILE	MISSING	1	21-OCT-2010 00:05:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101020_221833_000060572094_00029_45173_1789.N1	1	21-OCT-2010 00:05:24

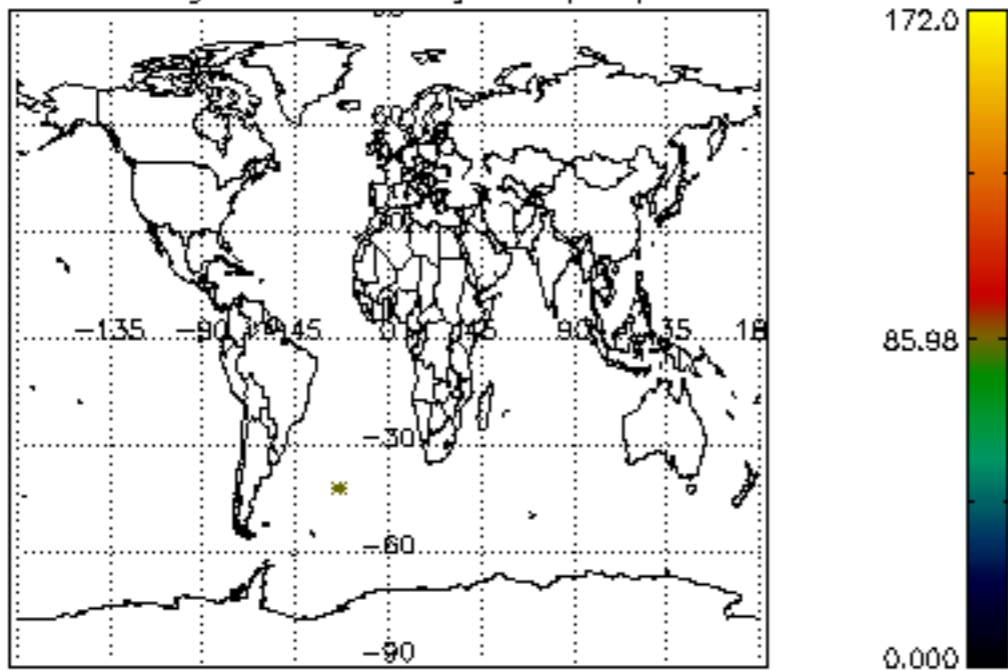




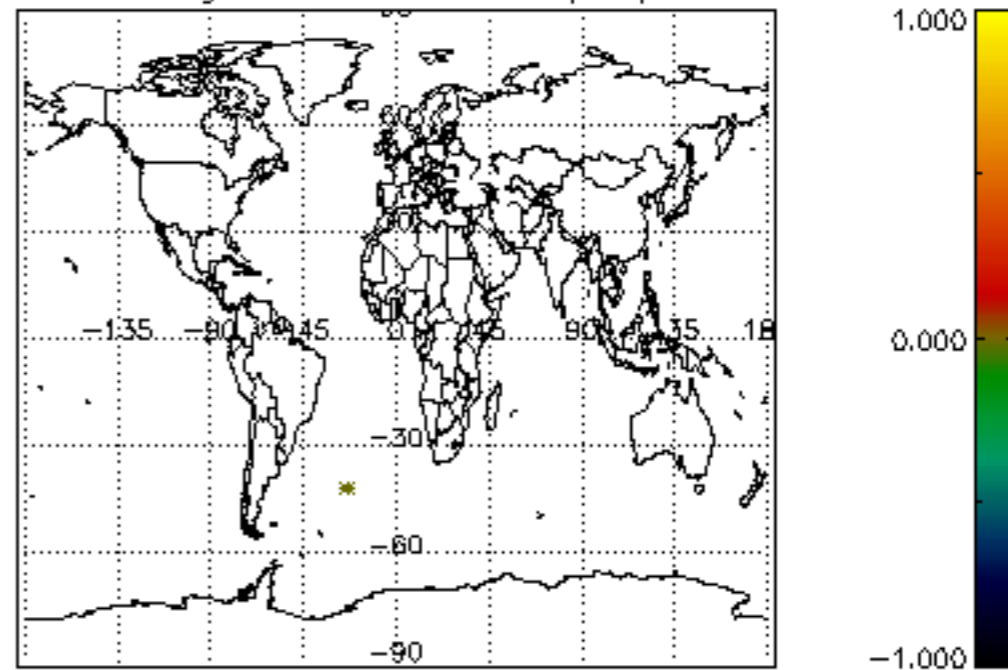




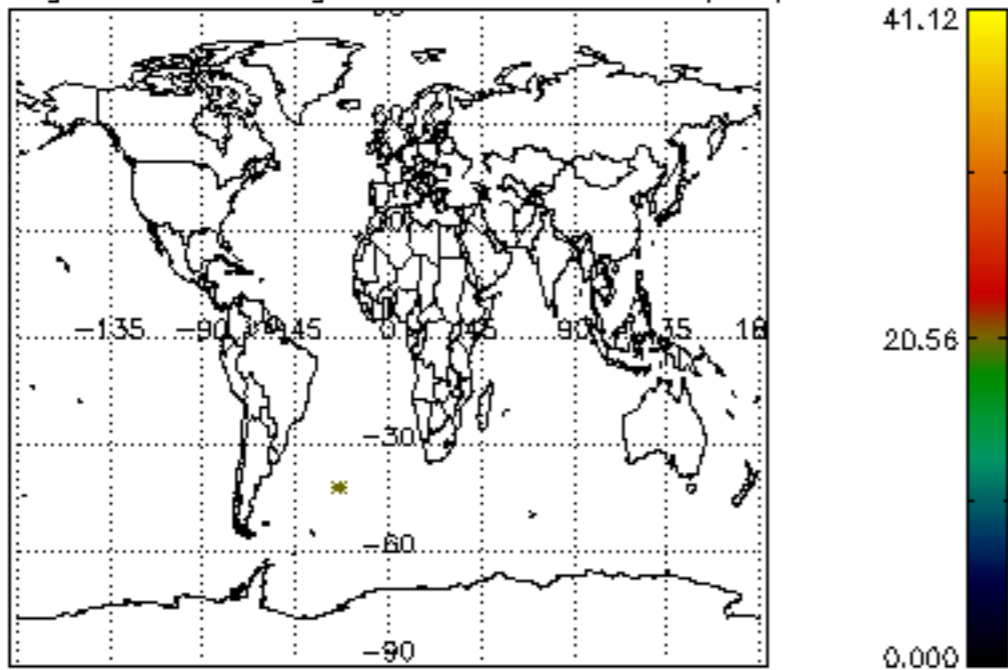
Percentage of cosmic ray hits per profile



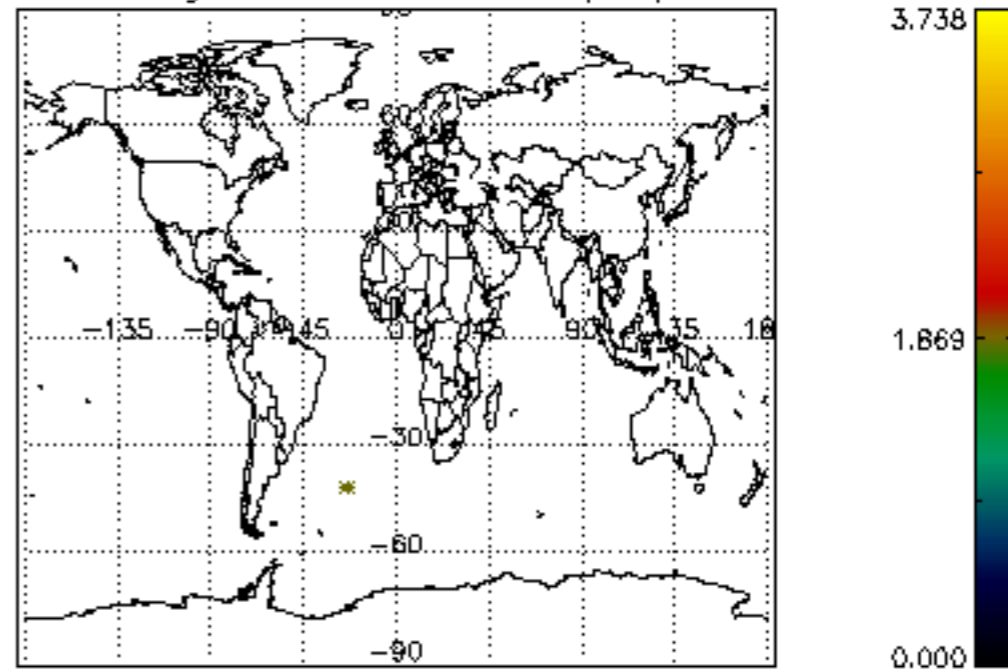
Percentage of datation errors per profile



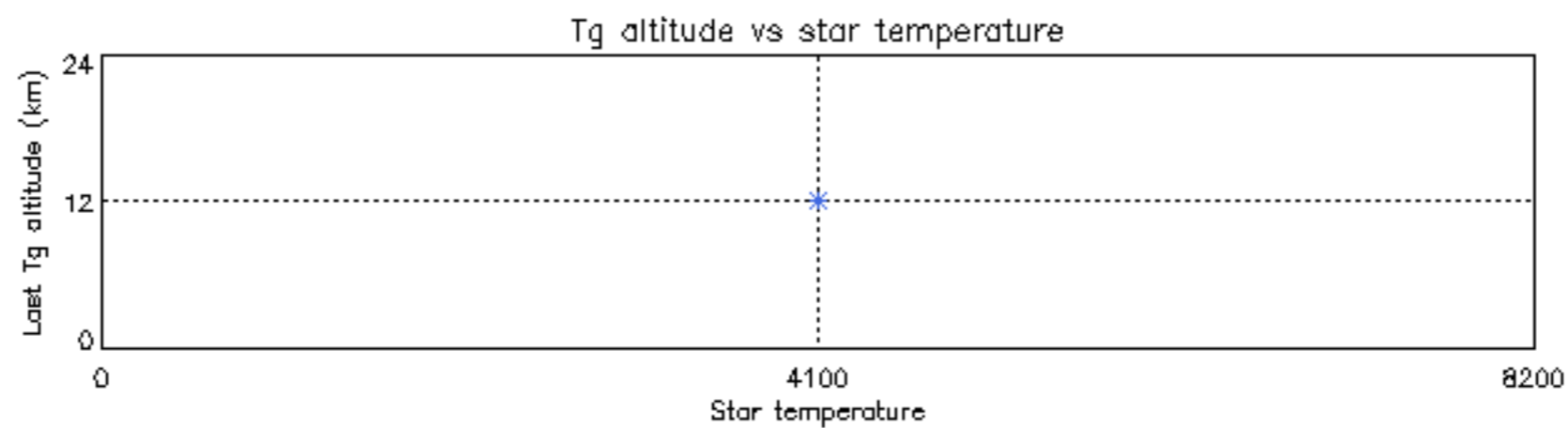
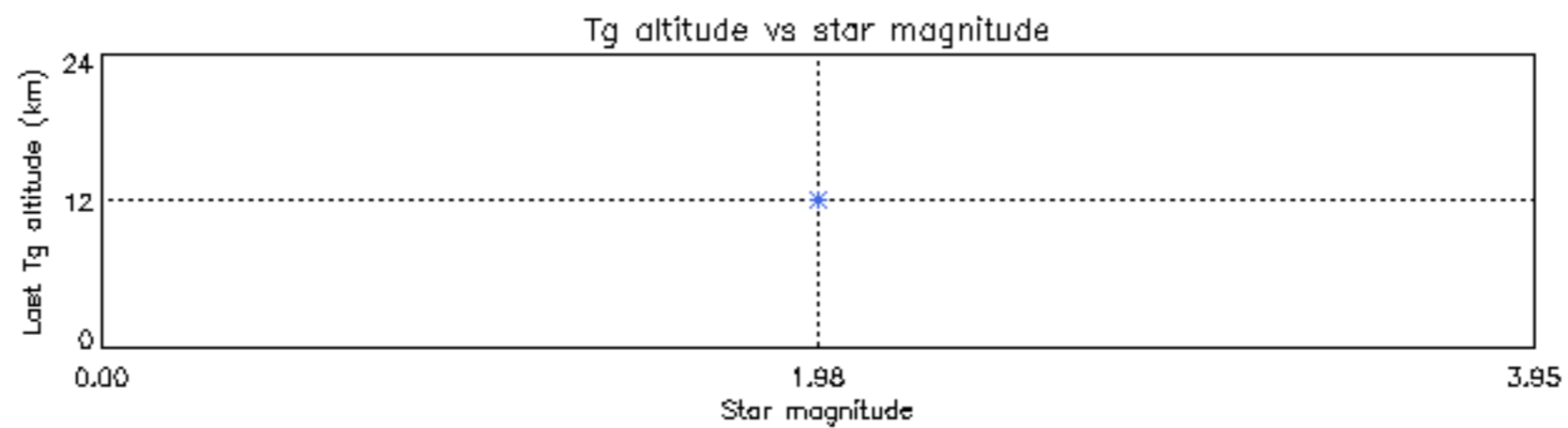
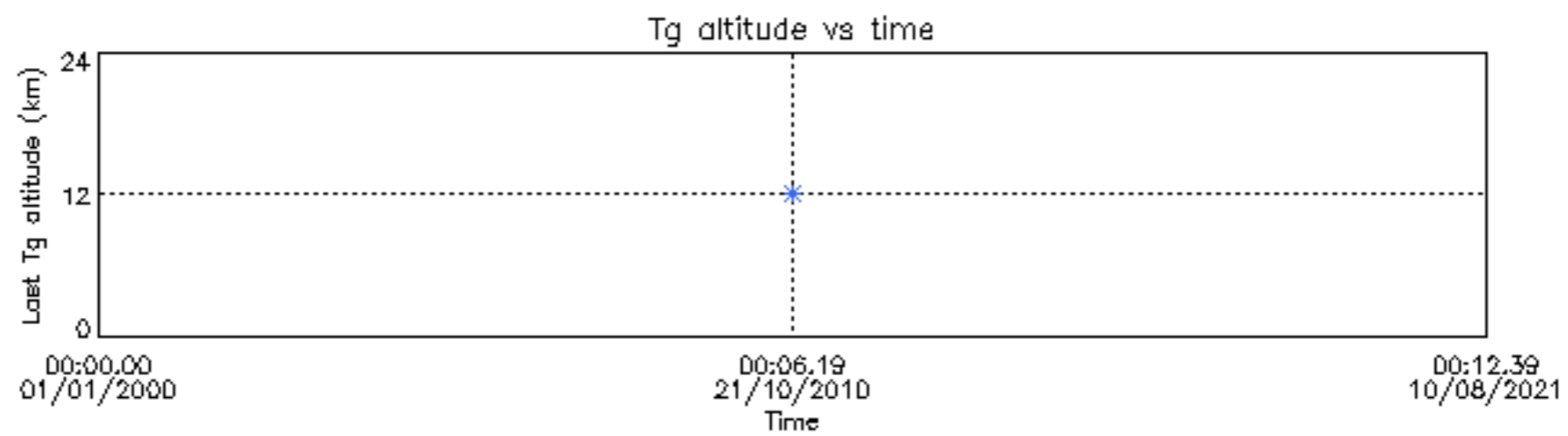
Percentage of star falling outside central band per profile

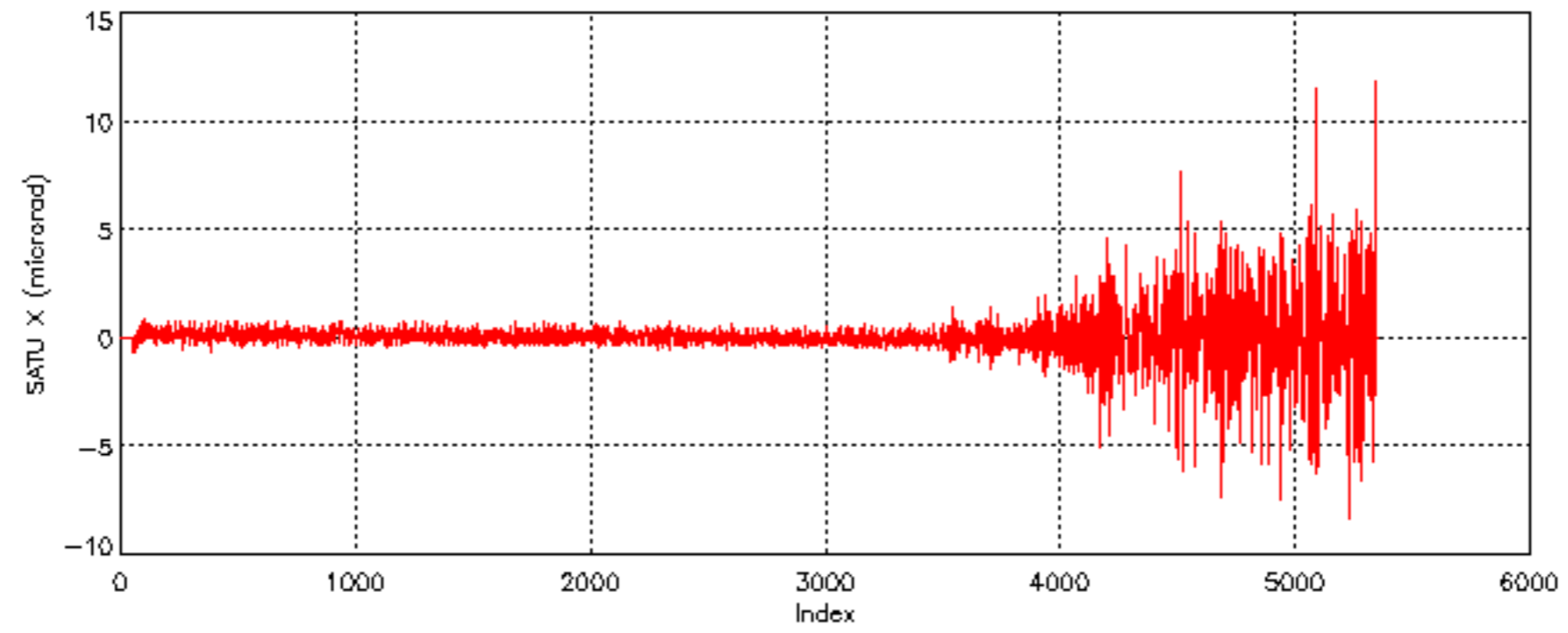


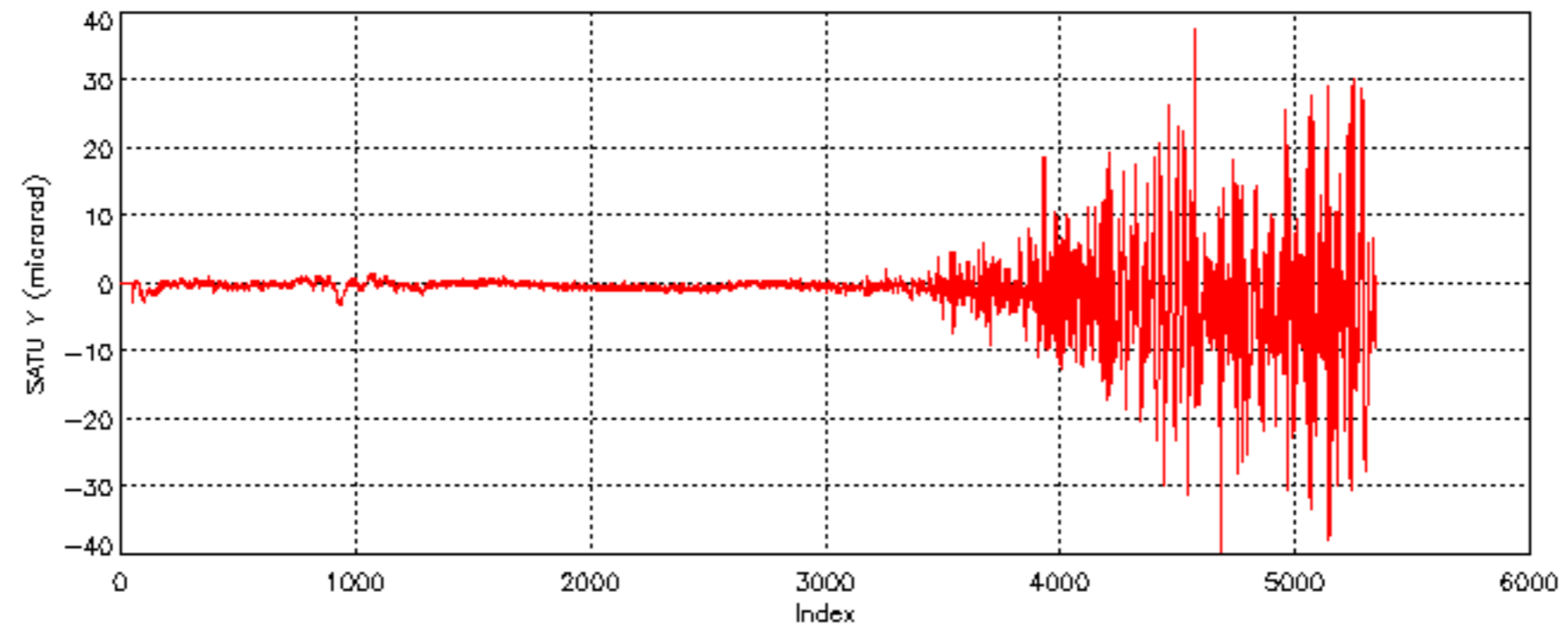
Percentage of saturation errors per profile

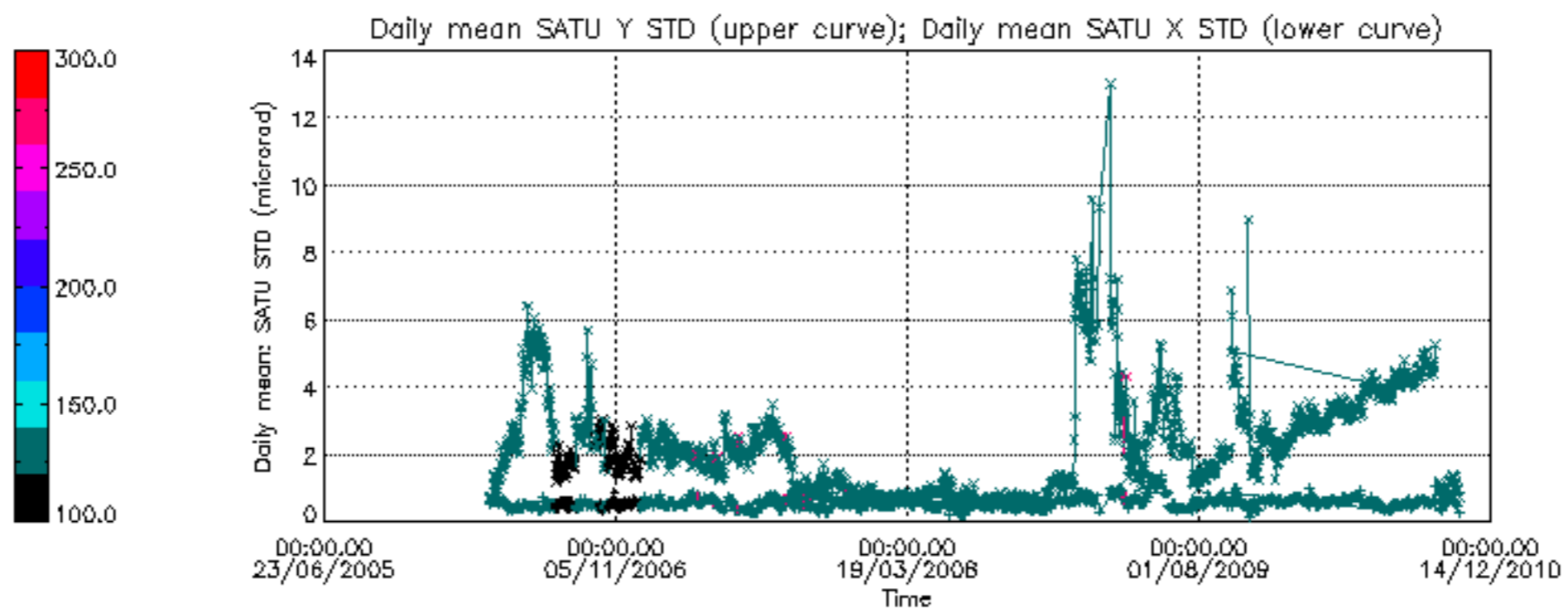


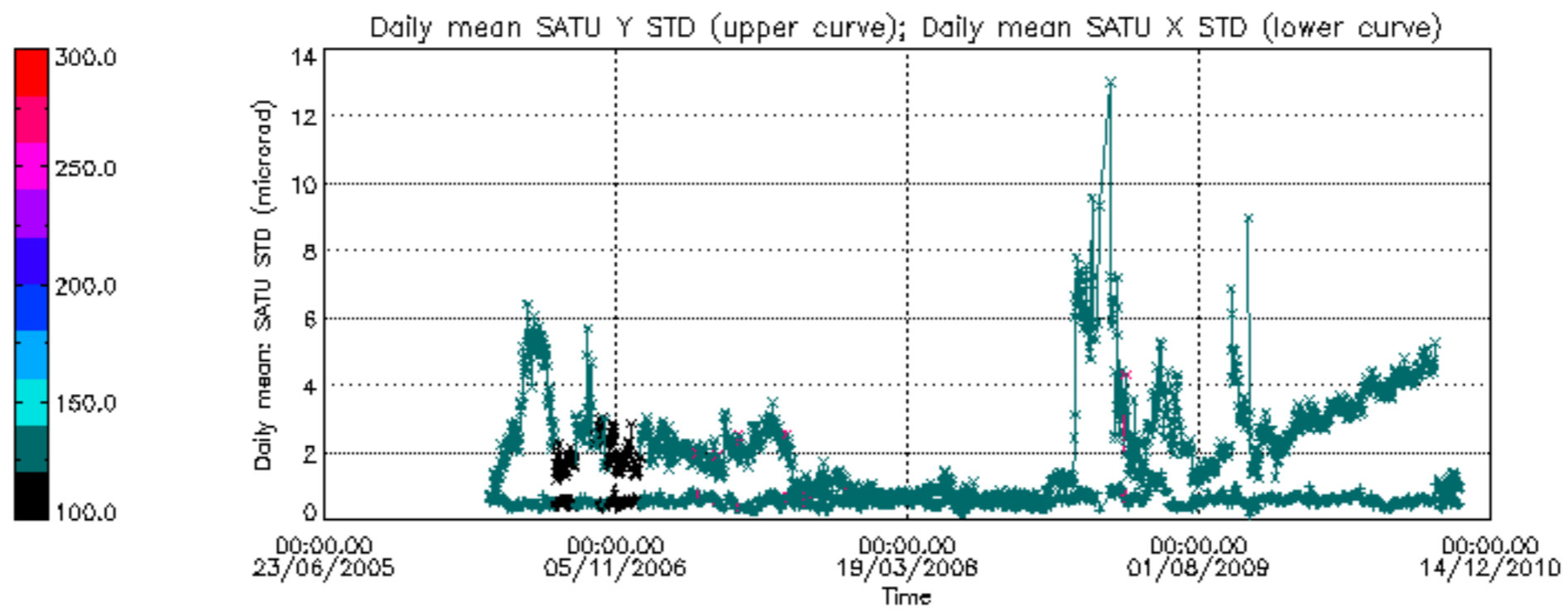
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_003829_000051292093_00245_44888_0965.N1

1; -452.2; 01-OCT-2010 00:38:29; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44888
 2; -204.7; 01-OCT-2010 00:42:36; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44888
 3; -44.1; 01-OCT-2010 00:45:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44888
 4; 168.4; 01-OCT-2010 00:48:49; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;44889
 5; 300.4; 01-OCT-2010 00:51:01; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44889
 6; 912.7; 01-OCT-2010 01:01:14; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44889
 7; 1556.6; 01-OCT-2010 01:11:57; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;44889
 8; 2185.8; 01-OCT-2010 01:22:27; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44889
 9; 2435.7; 01-OCT-2010 01:26:37; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44889
 10; 2662.3; 01-OCT-2010 01:30:23; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;44889
 11; 2951.5; 01-OCT-2010 01:35:12; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44889
 12; 3032.9; 01-OCT-2010 01:36:34; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44889
 13; 4512.1; 01-OCT-2010 02:01:13; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44889
 14; 4600.3; 01-OCT-2010 02:02:41; Bright; 76.5; 17; 78Bet Gem ; 1.16; 4500;occ; 153; 0;44889

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_021202_000039472093_00246_44889_0966.N1

1; -875.0; 01-OCT-2010 02:12:02; Dark ; 38.0; 8; 10Alp CMi ; 0.40; 6500;occ; 76; 0;44889
 2; -451.6; 01-OCT-2010 02:19:05; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;44889
 3; -203.5; 01-OCT-2010 02:23:13; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44889
 4; -43.4; 01-OCT-2010 02:25:53; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44889
 5; 169.1; 01-OCT-2010 02:29:26; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;44890
 6; 302.0; 01-OCT-2010 02:31:39; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44890
 7; 913.7; 01-OCT-2010 02:41:50; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44890
 8; 1557.0; 01-OCT-2010 02:52:34; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44890
 9; 2185.6; 01-OCT-2010 03:03:02; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44890
 10; 2435.4; 01-OCT-2010 03:07:12; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44890
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 12; 2951.6; 01-OCT-2010 03:15:48; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44890
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 8; 303.6; 01-OCT-2010 04:12:16; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44891
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 5; -200.8; 01-OCT-2010 05:44:28; Dark ; 64.5; 37; 25Del CMA ; 1.83; 5900;occ; 129; 0;44891
 6; -41.9; 01-OCT-2010 05:47:07; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44891
 7; 170.7; 01-OCT-2010 05:50:39; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44892
 8; 305.2; 01-OCT-2010 05:52:54; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44892
 9; 915.1; 01-OCT-2010 06:03:04; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44892
 10; 1557.4; 01-OCT-2010 06:13:46; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44892
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 12; 2435.1; 01-OCT-2010 06:28:24; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44892
 13; 2660.4; 01-OCT-2010 06:32:09; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;44892
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 6; 306.8; 01-OCT-2010 07:33:31; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44893

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3; 2659.8; 01-OCT-2010 08:12:44; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44893
4; 2950.9; 01-OCT-2010 08:17:36; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44893
5; 3031.4; 01-OCT-2010 08:18:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44893
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7; 5587.7; 01-OCT-2010 09:01:32; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44893
8; 5837.5; 01-OCT-2010 09:05:42; Dark ; 58.0; 37; 25Del CMA ; 1.83; 5900;occ; 116; 0;44893
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3; 2659.1; 01-OCT-2010 09:53:20; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44894
4; 2950.6; 01-OCT-2010 09:58:11; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44894
5; 3031.0; 01-OCT-2010 09:59:32; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44894
6; 4601.8; 01-OCT-2010 10:25:42; Bright; 61.0; 17; 78Bet Gem ; 1.16; 4500;occ; 122; 0;44894
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8; 5838.8; 01-OCT-2010 10:46:19; Dark ; 58.0; 37; 25Del CMA ; 1.83; 5900;occ; 116; 0;44894
9; 5996.2; 01-OCT-2010 10:48:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44894
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3; 2432.4; 01-OCT-2010 21:33:44; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44901
4; 2654.2; 01-OCT-2010 21:37:26; Bright; 45.0; 53; 43Bet And ; 2.05; 3300;occ; 90; 0;44901
5; 2948.9; 01-OCT-2010 21:42:21; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44901
6; 3028.2; 01-OCT-2010 21:43:40; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44901
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3; 93.8; 01-OCT-2010 22:35:22; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;44902
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6; 922.1; 01-OCT-2010 22:49:10; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44902
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3; 2658.4; 01-OCT-2010 11:33:55; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44895
4; 2950.3; 01-OCT-2010 11:38:47; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44895
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5; 2654.7; 01-OCT-2010 19:56:51; Bright; 46.5; 53; 43Bet And ; 2.05; 3300;occ; 93; 0;44900
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7; 4606.1; 02-OCT-2010 13:15:21; Bright; 45.0; 17; 78Bet Gem ; 1.16; 4500;occ; 90; 0;44910
8; 5601.9; 02-OCT-2010 13:31:57; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44910
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13; 6370.0; 02-OCT-2010 13:44:45; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44910
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5; 2946.4; 02-OCT-2010 14:28:17; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44911
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7; 4606.9; 02-OCT-2010 16:36:34; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;44912
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 9; 2180.1; 03-OCT-2010 01:59:43; Bright; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;44918
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11; 2674.3; 14-OCT-2010 01:21:55; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;45075
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13; 2974.0; 14-OCT-2010 01:26:55; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;45075
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 13; 2973.9; 14-OCT-2010 03:07:30; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;45076
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 5; 108.5; 14-OCT-2010 04:00:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45077
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 4; 2665.3; 14-OCT-2010 21:28:57; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45087
 5; 2775.4; 14-OCT-2010 21:30:47; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;45087
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 4; 119.1; 15-OCT-2010 00:07:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45089
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 6; 3091.0; 15-OCT-2010 07:39:38; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;45093
 7; 4631.5; 15-OCT-2010 08:05:19; Bright; 43.0; 166; 17Eps Leo ; 2.98; 6000;occ; 86; 0;45093
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9; 4829.0; 15-OCT-2010 19:52:48; Bright; 39.5; 22; 32Alp Leo ; 1.36; 15200;occ; 79; 0;45100
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3; 2640.4; 17-OCT-2010 08:09:29; Bright; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;45122
4; 2753.3; 17-OCT-2010 08:11:22; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;45122
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7; 4639.0; 17-OCT-2010 08:42:48; Bright; 50.0; 166; 17Eps Leo ; 2.98; 6000;occ; 100; 0;45122
8; 4836.7; 17-OCT-2010 08:46:05; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;45122
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