

GOMOS Daily Report 21-APR-2009

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	24APR2009 05:40:00
Data source version	GOMOS/5.00
Start time of products	21APR2009 00:09:29
Stop time of products	21APR2009 21:51:57
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

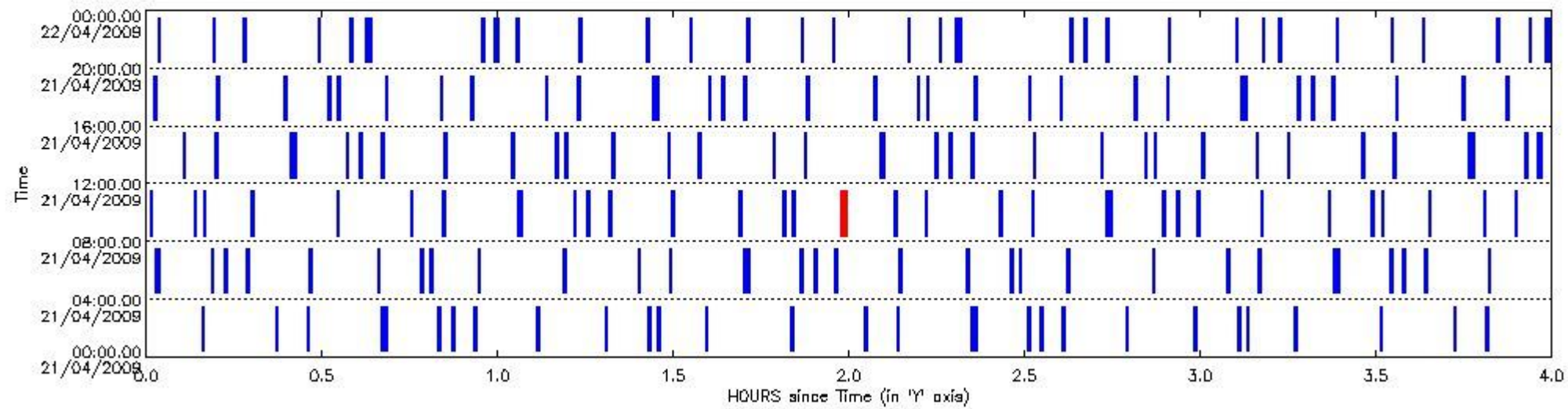
2.1 Level 0 products arrived in PCF (see template [here](#))

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-2009 09:58:25	14EtaDra	119	37336

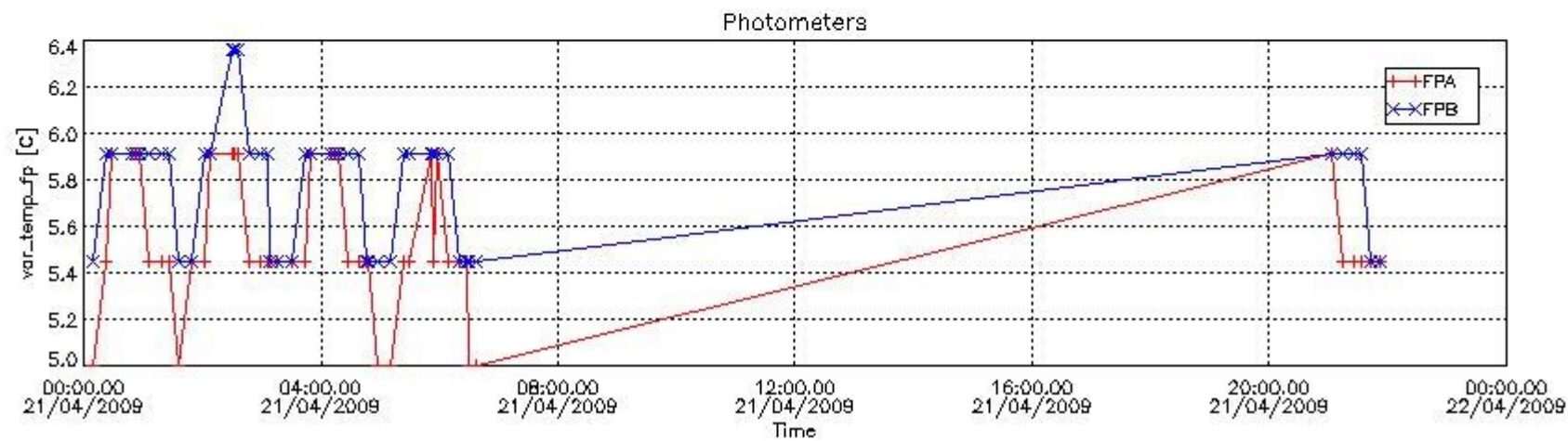
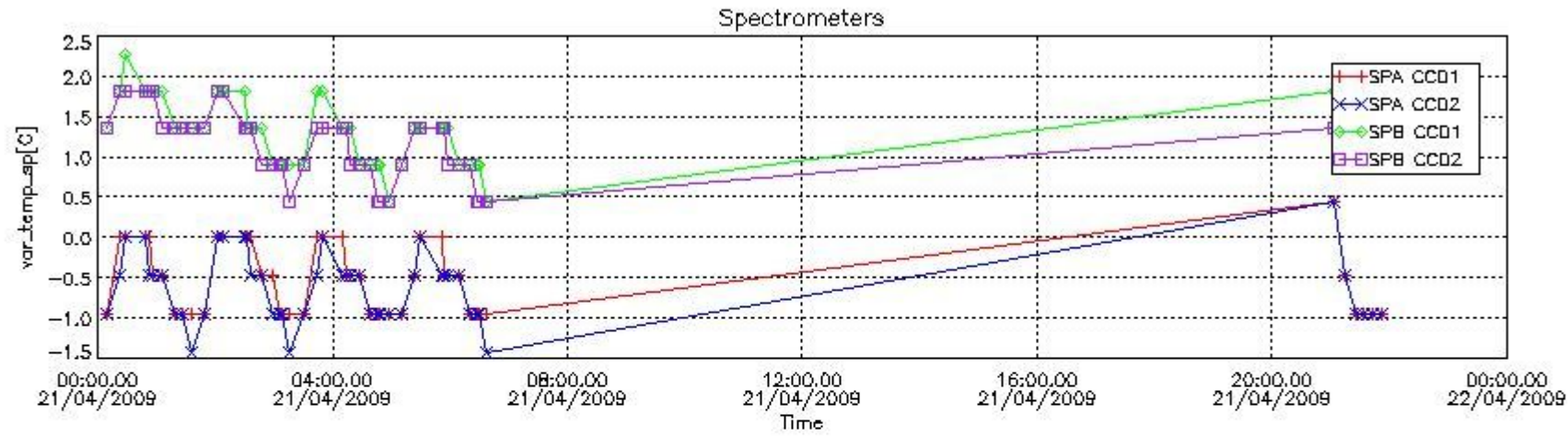
2.4 Summary of processed GOM_TRA_1P products

!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_1PNPDE20090421_000929_000000222078_00202_37330_2693.N1	21-APR-2009 00:09:29	Twi_and_stray	22.000	19	50Alp Cyg	1.2460	10500.	44	37330	No
2	GOM_TRA_1PNPDE20090421_002205_000000222078_00202_37330_2694.N1	21-APR-2009 00:22:05	Dark	21.500	61	8Eps Peg	2.1000	3900.0	43	37330	No
3	GOM_TRA_1PNPDE20090421_002728_000000242078_00202_37330_2695.N1	21-APR-2009 00:27:28	Dark	23.500	154	22Bet Aqr	2.8990	5700.0	47	37330	No
4	GOM_TRA_1PNPDE20090421_004950_000000272078_00203_37331_2843.N1	21-APR-2009 00:49:50	Dark	27.000	147	Alp Ara	2.8770	26000.	54	37331	No
5	GOM_TRA_1PNPDE20090421_005203_000000352078_00203_37331_2844.N1	21-APR-2009 00:52:03	Straylight	34.500	25	35Lam Sco	1.6200	28000.	69	37331	No
6	GOM_TRA_1PNPDE20090421_005545_000000342078_00203_37331_2845.N1	21-APR-2009 00:55:45	Straylight	33.500	75	26Eps Sco	2.2910	4250.0	67	37331	No
7	GOM_TRA_1PNPDE20090421_010639_000000272078_00203_37331_2846.N1	21-APR-2009 01:06:39	Twi_and_stray	27.000	122	9Alp2Lib	2.7470	9700.0	54	37331	No
8	GOM_TRA_1PNPDE20090421_011815_000000262078_00203_37331_2847.N1	21-APR-2009 01:18:15	Twi_and_stray	26.000	111	8Eta Boo	2.6800	6000.0	52	37331	No
9	GOM_TRA_1PNPDE20090421_012543_000000292078_00203_37331_2848.N1	21-APR-2009 01:25:43	Twi_and_stray	28.500	180	27Gam Boo	3.0400	8000.0	57	37331	No

10	GOM_TRA_1PNPDE20090421_012718_000000252078_00203_37331_2849.N1	21-APR-2009 01:27:18	Twilight	24.500	39	85Eta UMa	1.8540	24000.	49	37331	No
11	GOM_TRA_1PNPDE20090421_013527_000000272078_00203_37331_2850.N1	21-APR-2009 01:35:27	Twilight	26.500	119	14Eta Dra	2.7270	4700.0	53	37331	No
12	GOM_TRA_1PNPDE20090421_015004_000000222078_00203_37331_2851.N1	21-APR-2009 01:50:04	Twilight	22.000	19	50Alp Cyg	1.2460	10500.	44	37331	No
13	GOM_TRA_1PNPDE20090421_020241_000000212078_00203_37331_2852.N1	21-APR-2009 02:02:41	Dark	20.500	61	8Eps Peg	2.1000	3900.0	41	37331	No
14	GOM_TRA_1PNPDE20090421_020805_000000242078_00203_37331_3007.N1	21-APR-2009 02:08:05	Dark	24.000	154	22Bet Aqr	2.8990	5700.0	48	37331	No
15	GOM_TRA_1PNPDE20090421_023027_000000272078_00204_37332_3008.N1	21-APR-2009 02:30:27	Dark	27.000	147	Alp Ara	2.8770	26000.	54	37332	No
16	GOM_TRA_1PNPDE20090421_023240_000000352078_00204_37332_3009.N1	21-APR-2009 02:32:40	Straylight	34.500	25	35Lam Sco	1.6200	28000.	69	37332	No
17	GOM_TRA_1PNPDE20090421_023622_000000342078_00204_37332_3010.N1	21-APR-2009 02:36:22	Straylight	33.500	75	26Eps Sco	2.2910	4250.0	67	37332	No
18	GOM_TRA_1PNPDE20090421_024715_000000272078_00204_37332_3011.N1	21-APR-2009 02:47:15	Twilight	27.000	122	9Alp2Lib	2.7470	9700.0	54	37332	No
19	GOM_TRA_1PNPDE20090421_025851_000000262078_00204_37332_3012.N1	21-APR-2009 02:58:51	Twilight	25.500	111	8Eta Boo	2.6800	6000.0	51	37332	No
20	GOM_TRA_1PNPDE20090421_030618_000000292078_00204_37332_3013.N1	21-APR-2009 03:06:18	Twilight	28.500	180	27Gam Boo	3.0400	8000.0	57	37332	No
21	GOM_TRA_1PNPDE20090421_030754_000000252078_00204_37332_3014.N1	21-APR-2009 03:07:54	Twilight	24.500	39	85Eta UMa	1.8540	24000.	49	37332	No
22	GOM_TRA_1PNPDE20090421_031603_000000262078_00204_37332_3015.N1	21-APR-2009 03:16:03	Twilight	25.500	119	14Eta Dra	2.7270	4700.0	51	37332	No
23	GOM_TRA_1PNPDE20090421_033040_000000222078_00204_37332_3178.N1	21-APR-2009 03:30:40	Twilight	22.000	19	50Alp Cyg	1.2460	10500.	44	37332	No
24	GOM_TRA_1PNPDE20090421_034318_000000212078_00204_37332_3179.N1	21-APR-2009 03:43:18	Dark	21.000	61	8Eps Peg	2.1000	3900.0	42	37332	No
25	GOM_TRA_1PNPDE20090421_034842_000000242078_00204_37332_3180.N1	21-APR-2009 03:48:42	Dark	24.000	154	22Bet Aqr	2.8990	5700.0	48	37332	No
26	GOM_TRA_1PNPDE20090421_041104_000000272078_00205_37333_3181.N1	21-APR-2009 04:11:04	Dark	27.000	147	Alp Ara	2.8770	26000.	54	37333	No
27	GOM_TRA_1PNPDE20090421_041318_000000352078_00205_37333_3182.N1	21-APR-2009 04:13:18	Straylight	34.500	25	35Lam Sco	1.6200	28000.	69	37333	No
28	GOM_TRA_1PNPDE20090421_041659_000000342078_00205_37333_3183.N1	21-APR-2009 04:16:59	Straylight	33.500	75	26Eps Sco	2.2910	4250.0	67	37333	No
29	GOM_TRA_1PNPDE20090421_042752_000000272078_00205_37333_3184.N1	21-APR-2009 04:27:52	Twilight	27.000	122	9Alp2Lib	2.7470	9700.0	54	37333	No
30	GOM_TRA_1PNPDE20090421_043926_000000262078_00205_37333_3185.N1	21-APR-2009 04:39:26	Twilight	26.000	111	8Eta Boo	2.6800	6000.0	52	37333	No
31	GOM_TRA_1PNPDE20090421_044653_000000292078_00205_37333_3186.N1	21-APR-2009 04:46:53	Twilight	28.500	180	27Gam Boo	3.0400	8000.0	57	37333	No
32	GOM_TRA_1PNPDE20090421_044829_000000252078_00205_37333_3187.N1	21-APR-2009 04:48:29	Twilight	24.500	39	85Eta UMa	1.8540	24000.	49	37333	No
33	GOM_TRA_1PNPDE20090421_045638_000000262078_00205_37333_3188.N1	21-APR-2009 04:56:38	Twilight	25.500	119	14Eta Dra	2.7270	4700.0	51	37333	No
34	GOM_TRA_1PNPDE20090421_051116_000000222078_00205_37333_3319.N1	21-APR-2009 05:11:16	Twilight	22.000	19	50Alp Cyg	1.2460	10500.	44	37333	No
35	GOM_TRA_1PNPDE20090421_052355_000000212078_00205_37333_3320.N1	21-APR-2009 05:23:55	Dark	21.000	61	8Eps Peg	2.1000	3900.0	42	37333	No
36	GOM_TRA_1PNPDE20090421_052919_000000242078_00205_37333_3321.N1	21-APR-2009 05:29:19	Dark	24.000	154	22Bet Aqr	2.8990	5700.0	48	37333	No
37	GOM_TRA_1PNPDE20090421_055140_000000282078_00206_37334_3322.N1	21-APR-2009 05:51:40	Dark	27.500	147	Alp Ara	2.8770	26000.	55	37334	No
38	GOM_TRA_1PNPDE20090421_055355_000000352078_00206_37334_3323.N1	21-APR-2009 05:53:55	Straylight	34.500	25	35Lam Sco	1.6200	28000.	69	37334	No
39	GOM_TRA_1PNPDE20090421_055736_000000342078_00206_37334_3324.N1	21-APR-2009 05:57:36	Straylight	33.500	75	26Eps Sco	2.2910	4250.0	67	37334	No
40	GOM_TRA_1PNPDE20090421_060828_000000272078_00206_37334_3325.N1	21-APR-2009 06:08:28	Twilight	27.000	122	9Alp2Lib	2.7470	9700.0	54	37334	No
41	GOM_TRA_1PNPDE20090421_062002_000000262078_00206_37334_3326.N1	21-APR-2009 06:20:02	Twilight	26.000	111	8Eta Boo	2.6800	6000.0	52	37334	No
42	GOM_TRA_1PNPDE20090421_062728_000000292078_00206_37334_3327.N1	21-APR-2009 06:27:28	Twilight	28.500	180	27Gam Boo	3.0400	8000.0	57	37334	No
43	GOM_TRA_1PNPDE20090421_062905_000000252078_00206_37334_3328.N1	21-APR-2009 06:29:05	Twilight	24.500	39	85Eta UMa	1.8540	24000.	49	37334	No
44	GOM_TRA_1PNPDE20090421_063713_000000262078_00206_37334_3329.N1	21-APR-2009 06:37:13	Twilight	25.500	119	14Eta Dra	2.7270	4700.0	51	37334	No
45	GOM_TRA_1PNPDE20090421_210307_000000342078_00215_37343_3846.N1	21-APR-2009 21:03:07	Straylight	33.500	75	26Eps Sco	2.2910	4250.0	67	37343	Yes
46	GOM_TRA_1PNPDE20090421_211352_000000272078_00215_37343_3847.N1	21-APR-2009 21:13:52	Twilight	26.500	122	9Alp2Lib	2.7470	9700.0	53	37343	No
47	GOM_TRA_1PNPDE20090421_212521_000000262078_00215_37343_3848.N1	21-APR-2009 21:25:21	Twilight	26.000	111	8Eta Boo	2.6800	6000.0	52	37343	No
48	GOM_TRA_1PNPDE20090421_213245_000000292078_00215_37343_3849.N1	21-APR-2009 21:32:45	Twilight	28.500	180	27Gam Boo	3.0400	8000.0	57	37343	No
49	GOM_TRA_1PNPDE20090421_214230_000000262078_00215_37343_3850.N1	21-APR-2009 21:42:30	Twilight	26.000	119	14Eta Dra	2.7270	4700.0	52	37343	No
50	GOM_TRA_1PNPDE20090421_215157_000000192078_00215_37343_3851.N1	21-APR-2009 21:51:57	Twilight	19.000	89	5Alp Cep	2.4510	8000.0	38	37343	No

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



4. Overview of dark signal processing per product

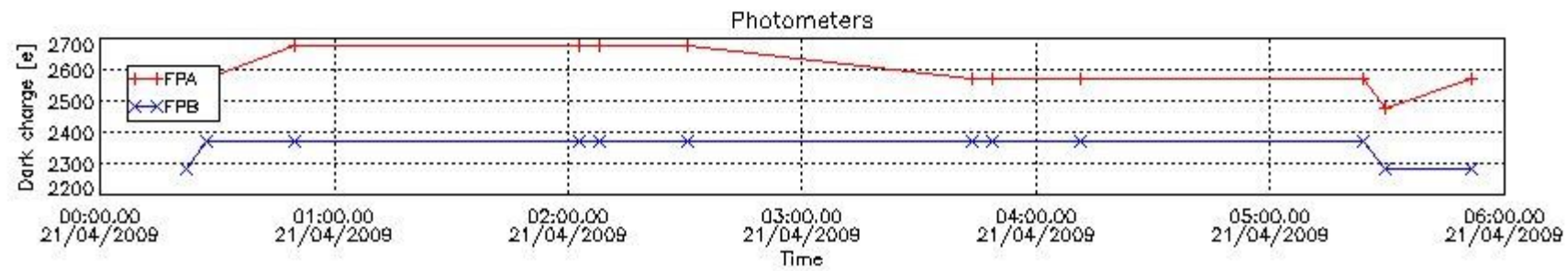
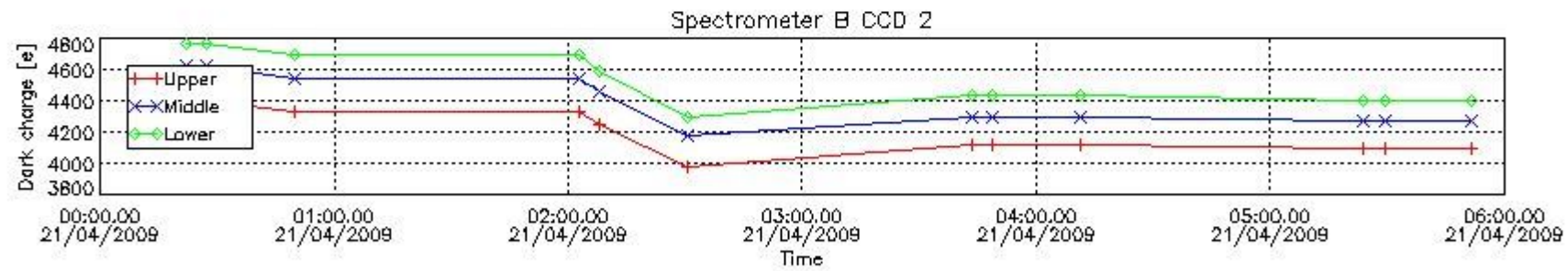
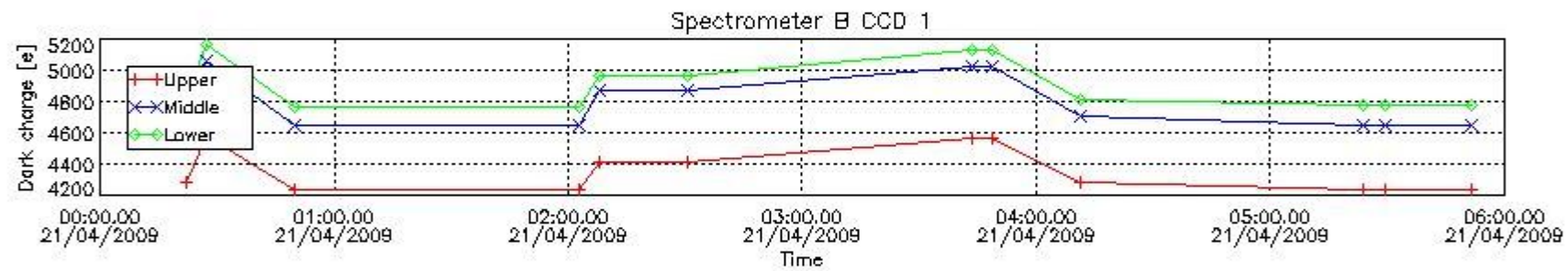
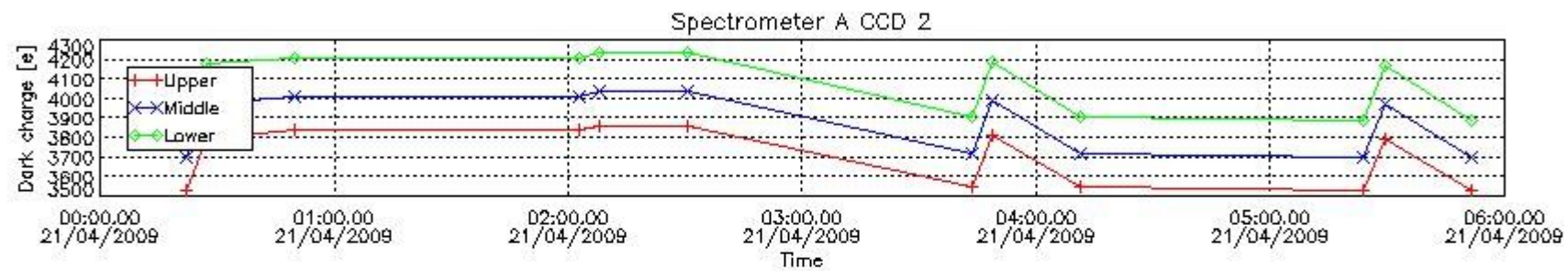
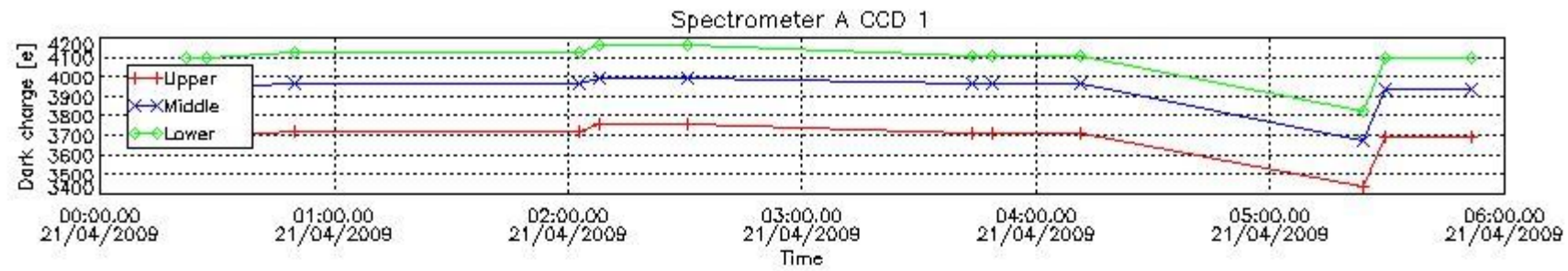
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090421_210307_000000342078_00215_37343_3846.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090421_211352_000000272078_00215_37343_3847.N1	DC map used
GOM_TRA_1PNPDE20090421_212521_000000262078_00215_37343_3848.N1	DC map used
GOM_TRA_1PNPDE20090421_213245_000000292078_00215_37343_3849.N1	DC map used
GOM_TRA_1PNPDE20090421_214230_000000262078_00215_37343_3850.N1	DC map used
GOM_TRA_1PNPDE20090421_215157_000000192078_00215_37343_3851.N1	DC map used

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



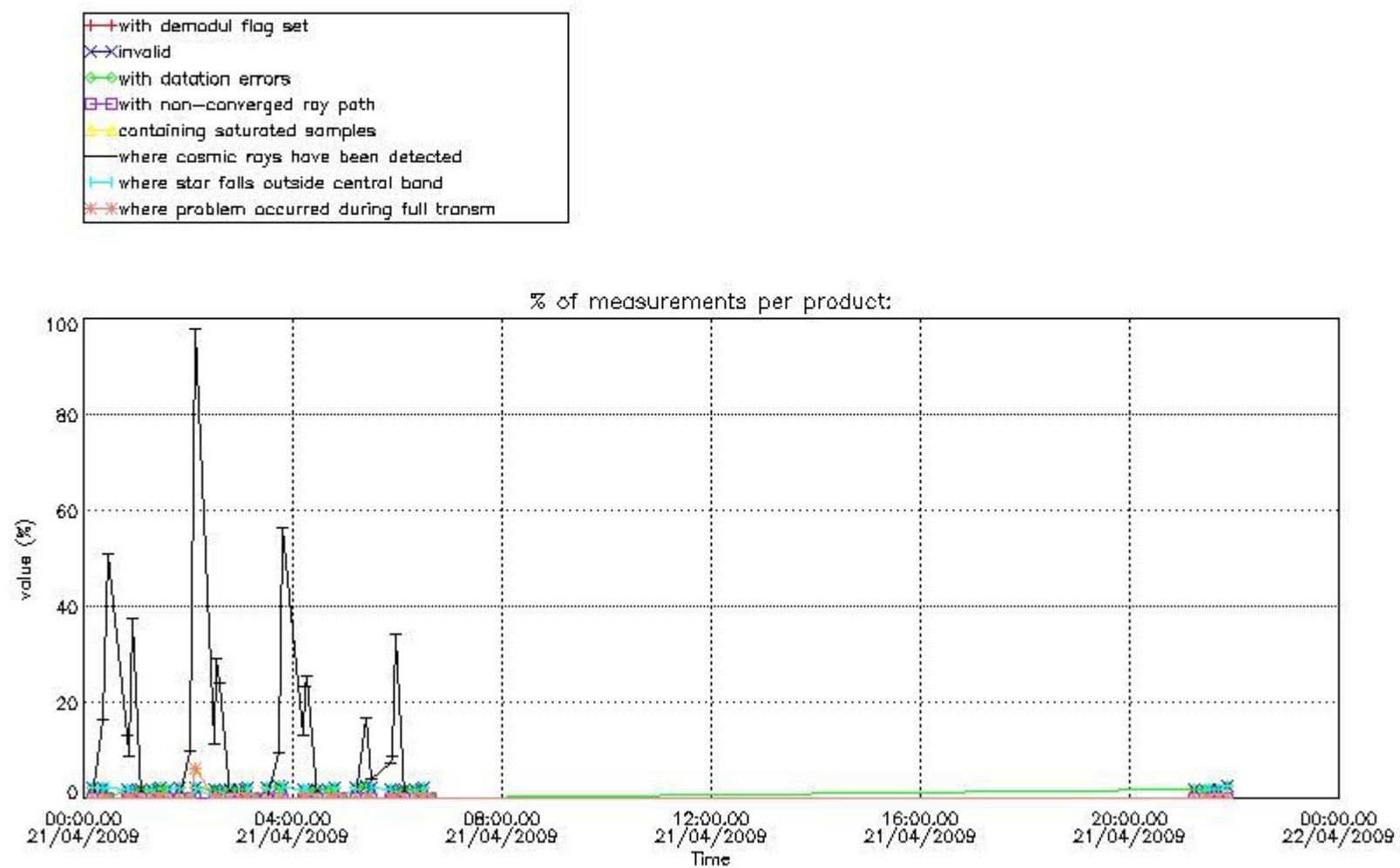
5. Demodulation flag and quality information monitoring

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.

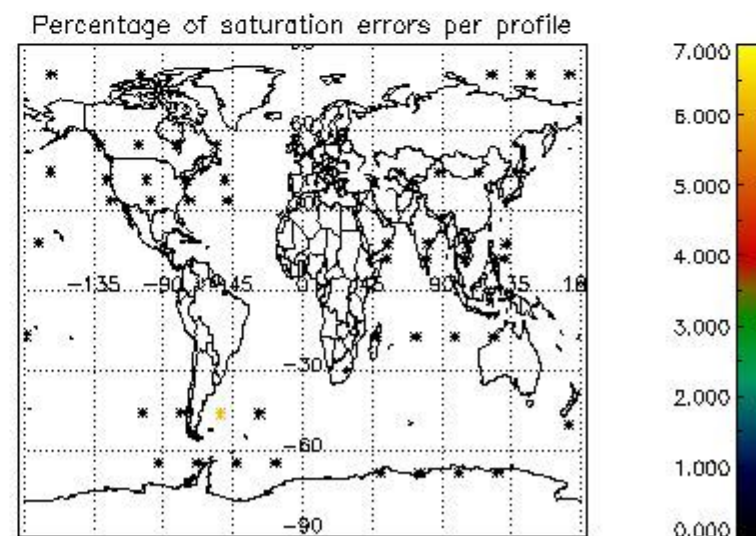
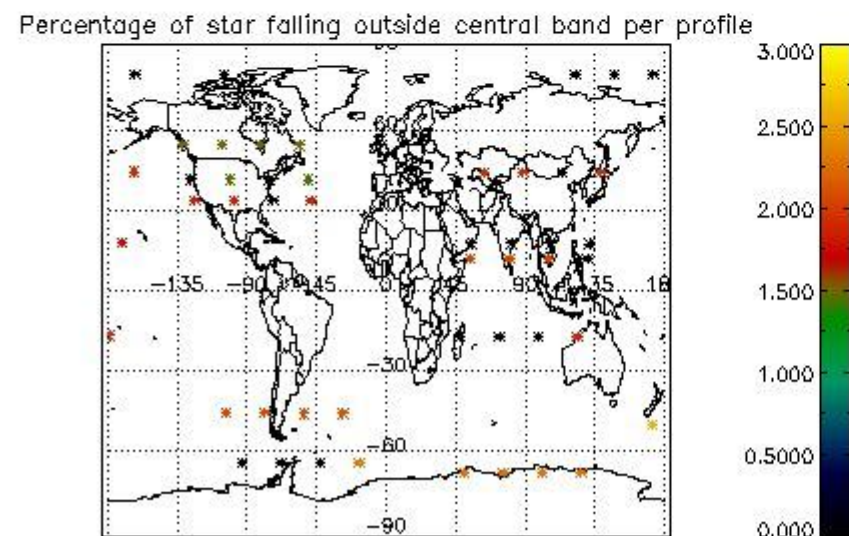
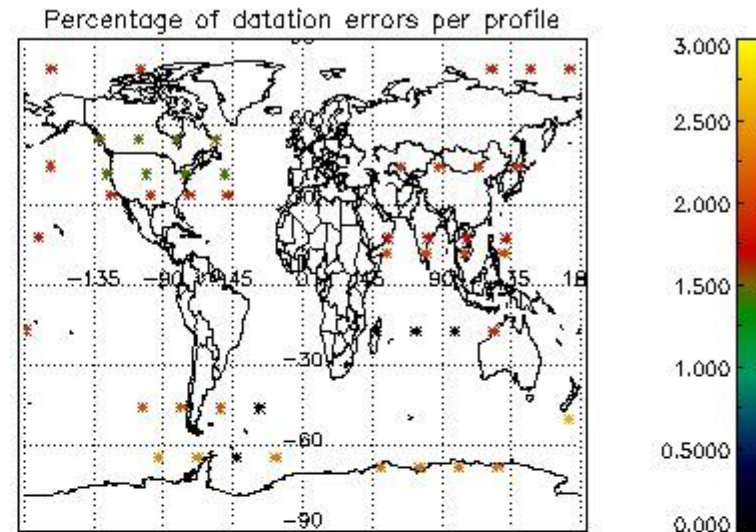
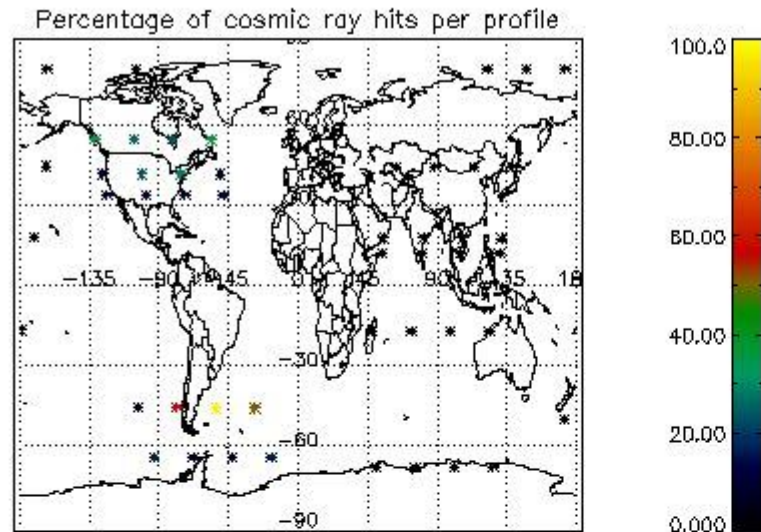
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.4490 %
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)



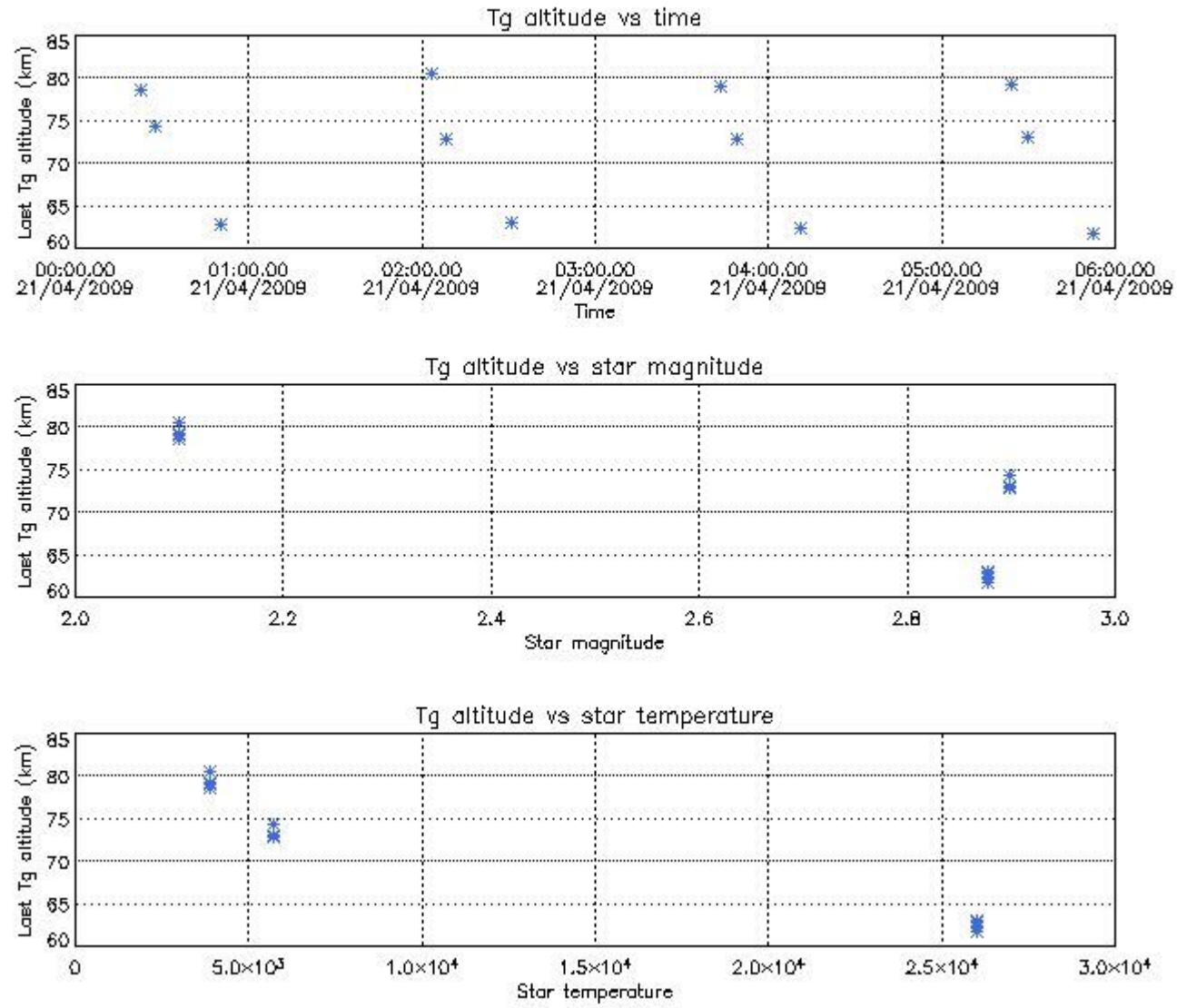
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	71.659	NaN	NaN
St. deviation:	7.3115	NaN	NaN
Maximum:	80.448	NaN	NaN
Minimum:	61.784	NaN	NaN
Number of data:	12.000	NaN	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

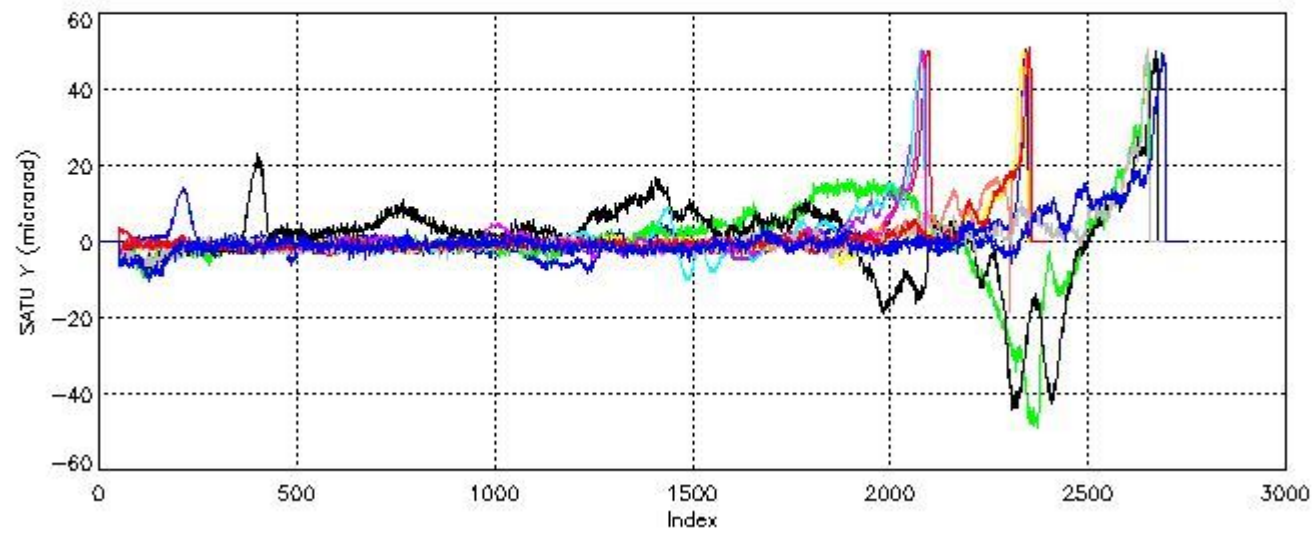
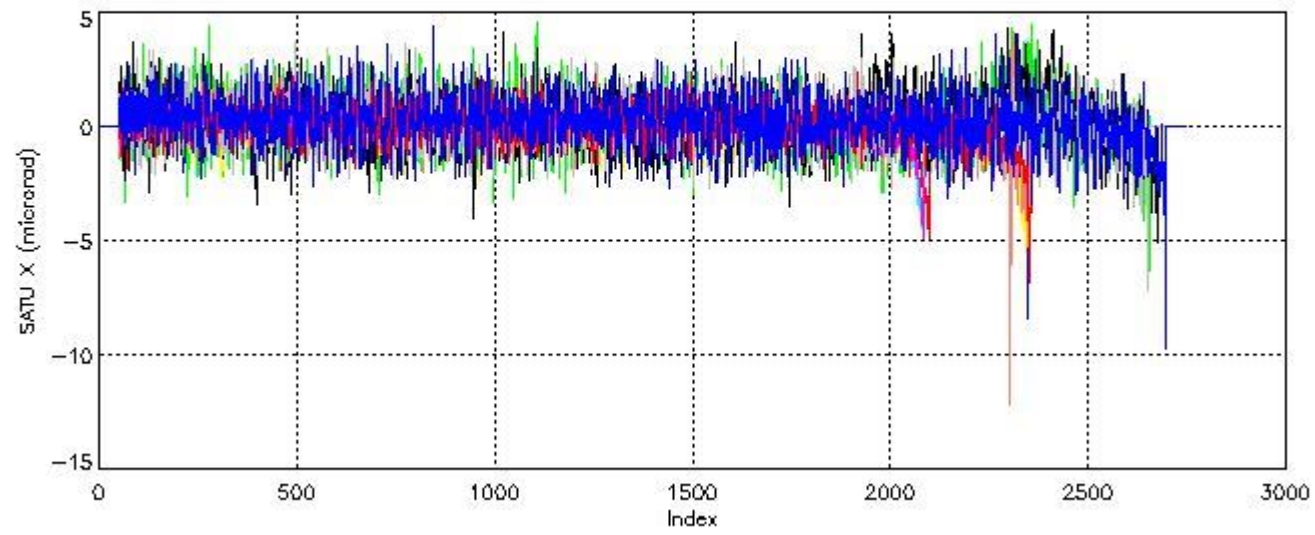


7. Star Acquisition and Tracking Unit (SATU)

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:	0.25930	-0.80441	NaN	NaN
St. deviation:	0.67885	1.6067	NaN	NaN
Maximum:	4.4000	23.000	NaN	NaN
Minimum:	-4.0000	-10.500	NaN	NaN

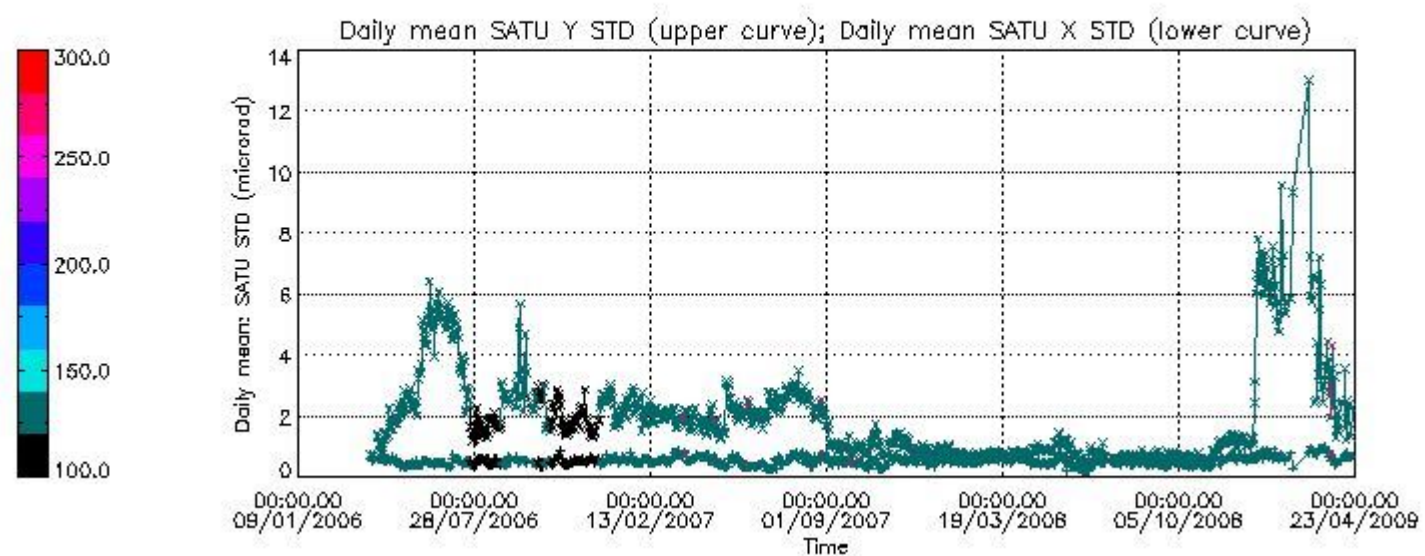
Number of data:	12950.	12950.	NaN	NaN
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

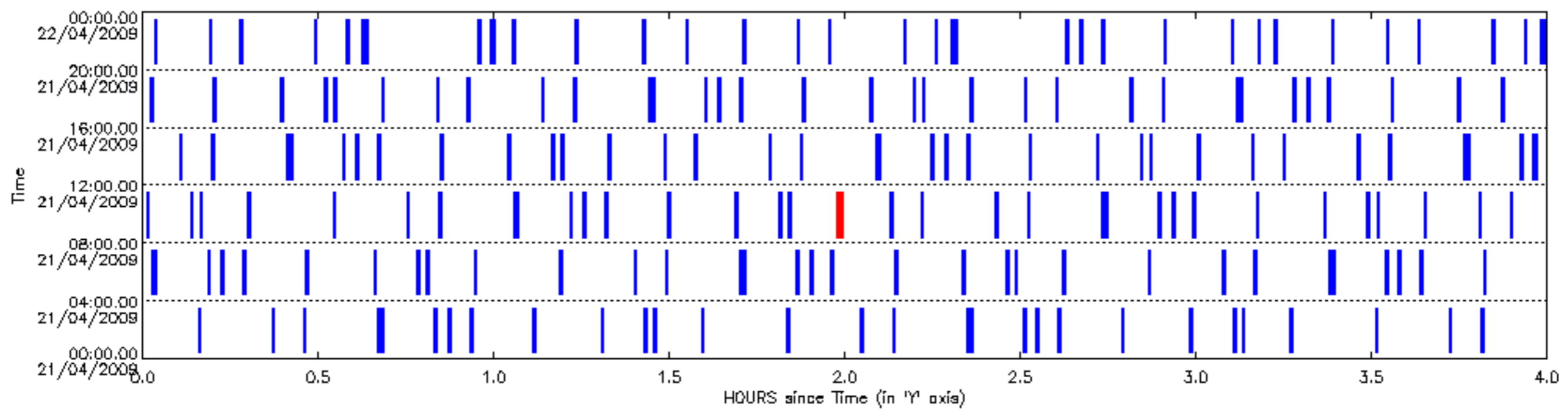
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

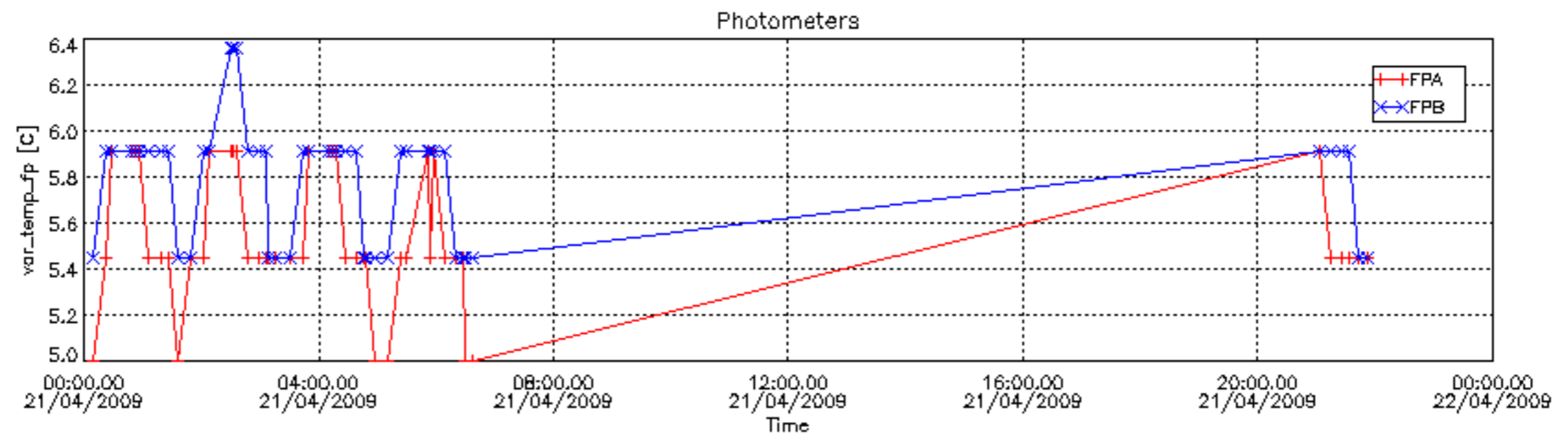
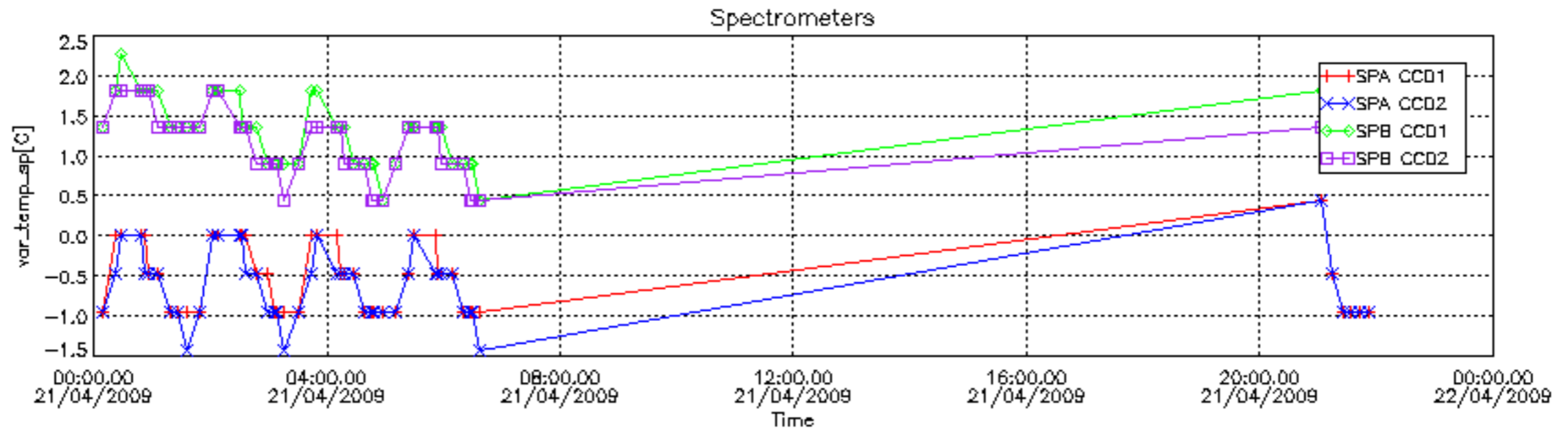


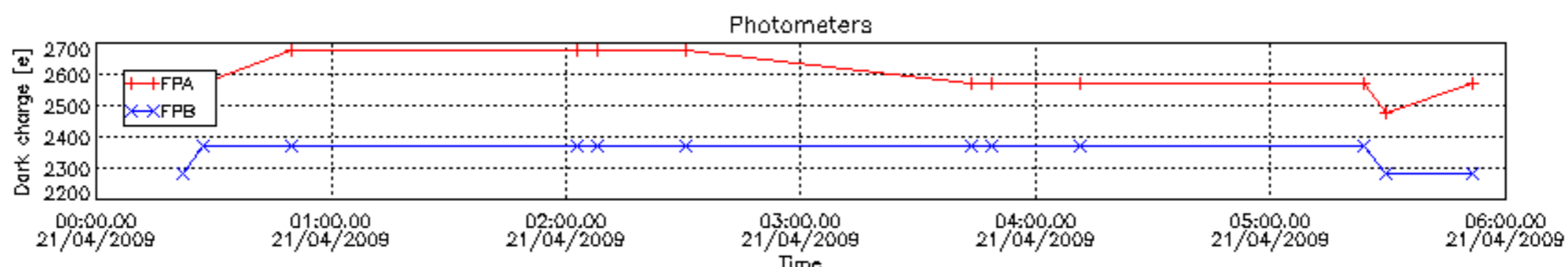
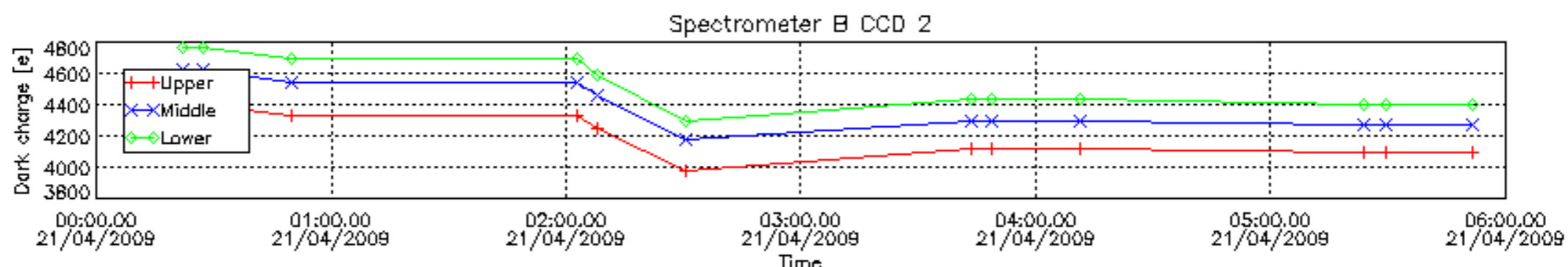
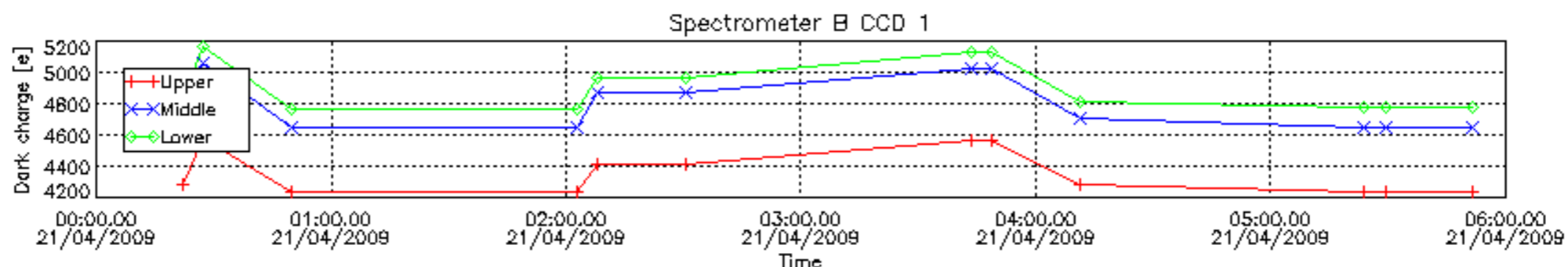
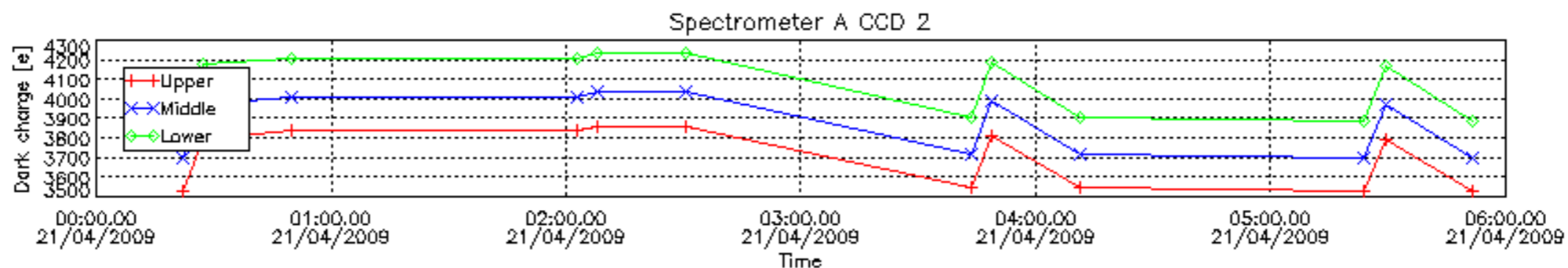
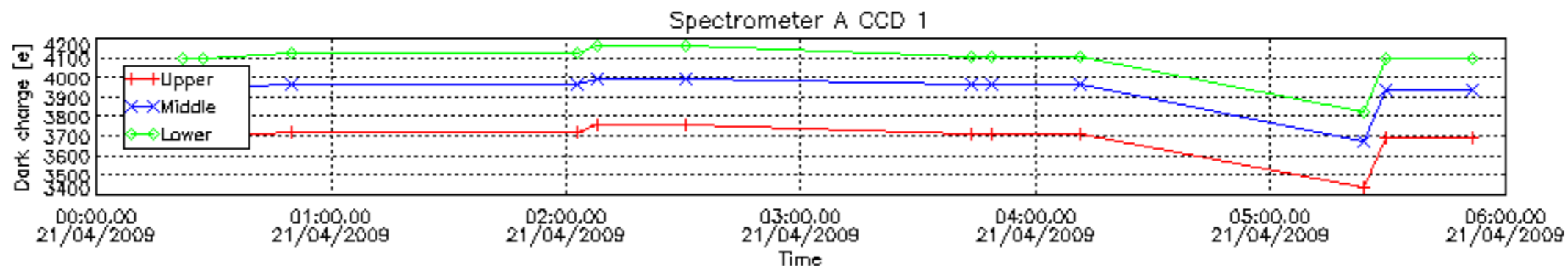
8. Auxiliary Data Files used for the production reported in section 2.4

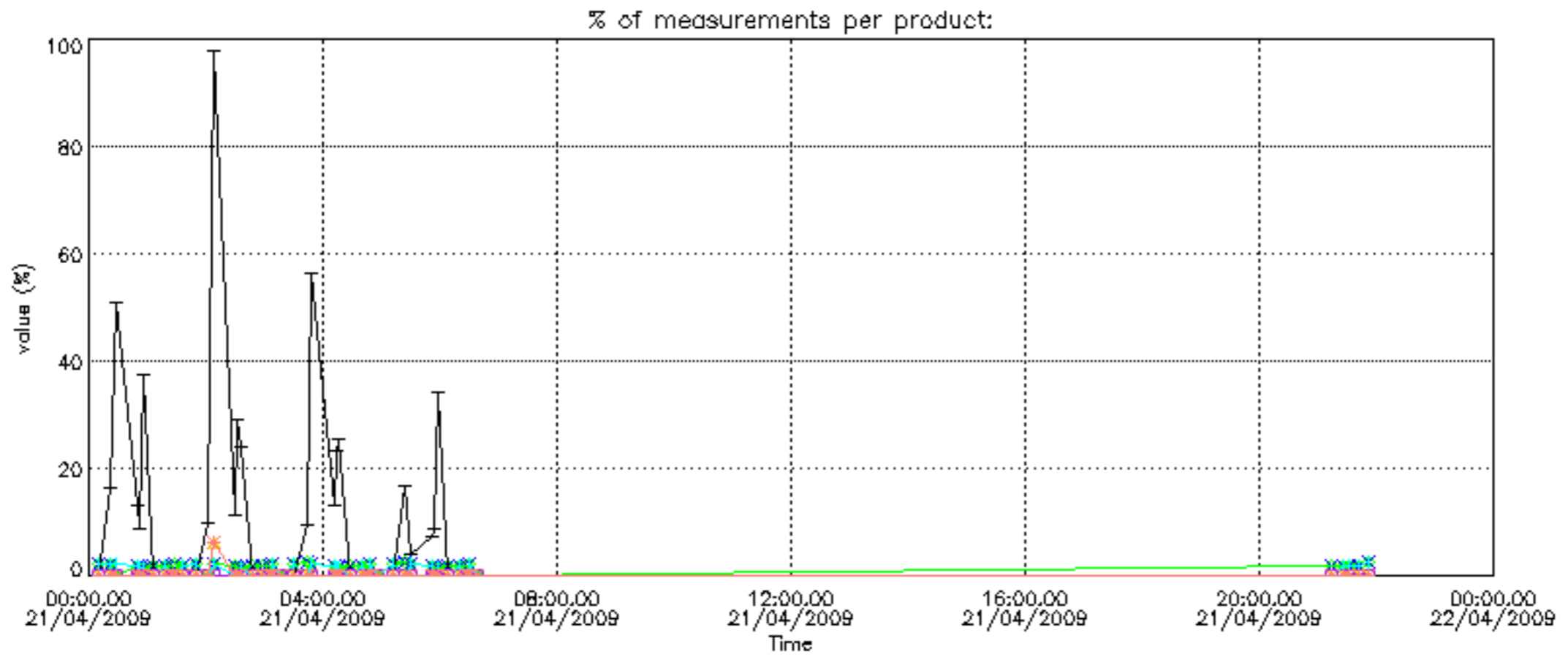
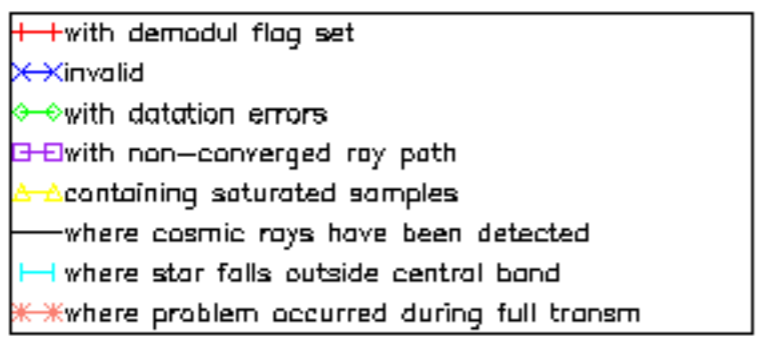
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	21-APR-2009 00:09:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090414_083029_20090412_000000_20100101_000000	1	21-APR-2009 00:09:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-APR-2009 00:09:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-APR-2009 00:09:29
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-APR-2009 00:09:29
ECMWF_FILE	AUX_ECF_AXNECM20090420_064113_20090420_210000_20090421_090000	1	21-APR-2009 00:09:29
ECMWF_FILE	AUX_ECF_AXNECM20090420_182114_20090421_030000_20090421_150000	23	21-APR-2009 03:30:40
ECMWF_FILE	AUX_ECF_AXNECM20090421_064113_20090421_210000_20090422_090000	45	21-APR-2009 21:03:07
OPTIONAL_ECMWF_FILE	MISSING	1	21-APR-2009 00:09:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090420_210112_000060572078_00200_37328_7791.N1	1	21-APR-2009 00:09:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090420_224209_000060572078_00201_37329_7792.N1	4	21-APR-2009 00:49:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090421_002306_000057382078_00202_37330_7793.N1	14	21-APR-2009 02:08:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090421_020403_000041442078_00203_37331_7794.N1	23	21-APR-2009 03:30:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090421_031826_000057382078_00204_37332_7795.N1	34	21-APR-2009 05:11:16
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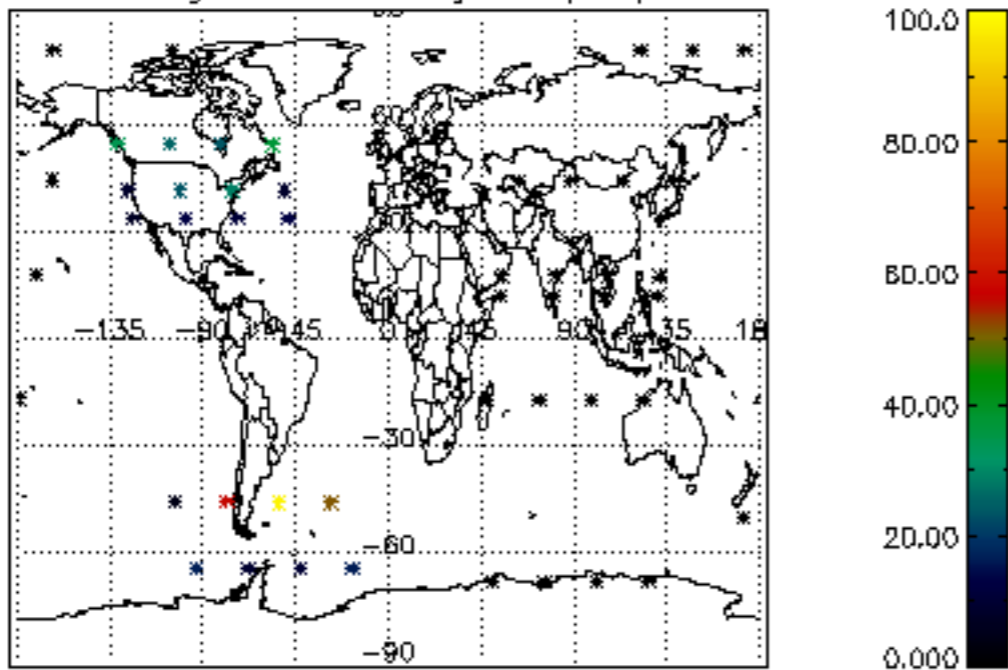




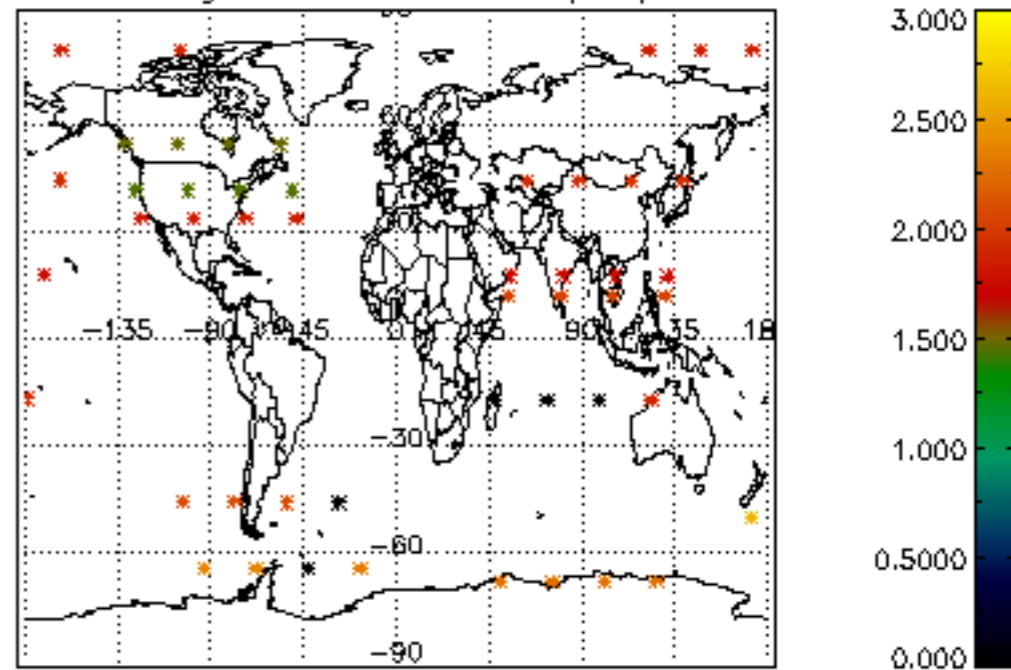




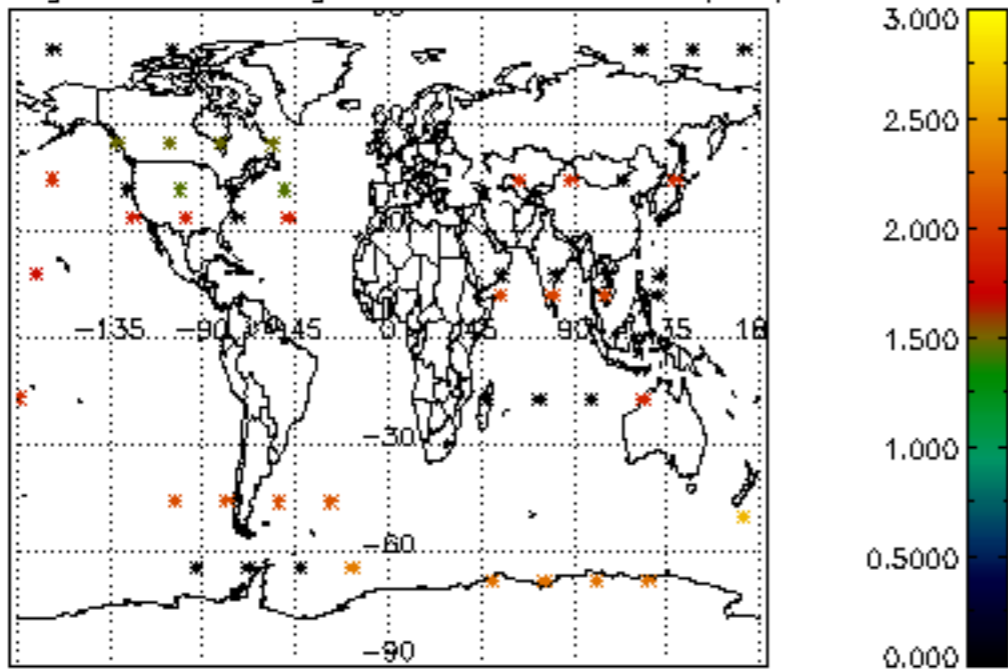
Percentage of cosmic ray hits per profile



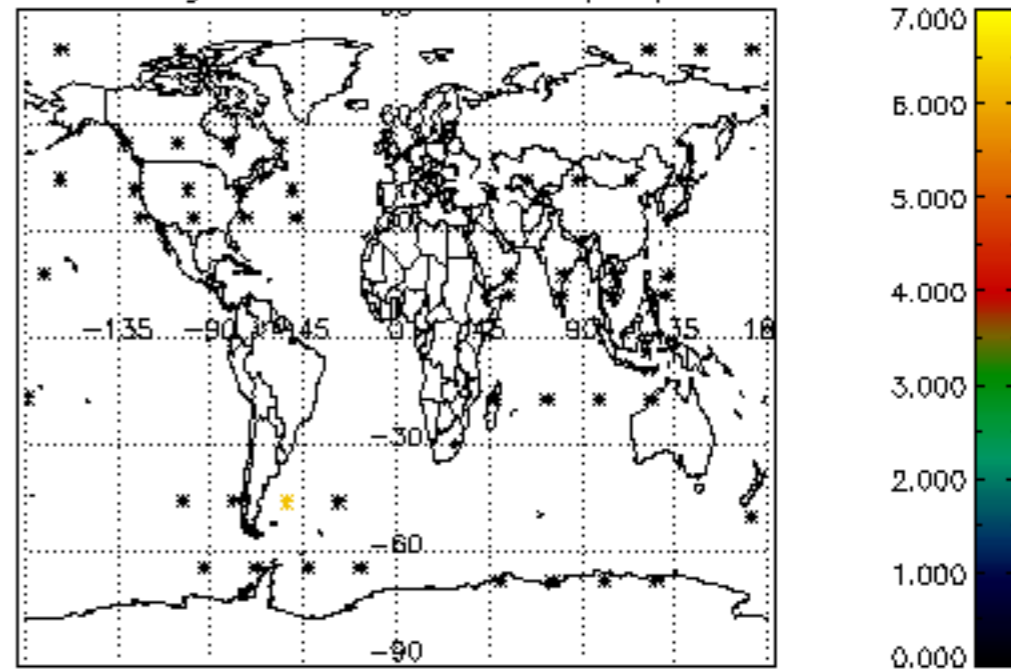
Percentage of datation errors per profile



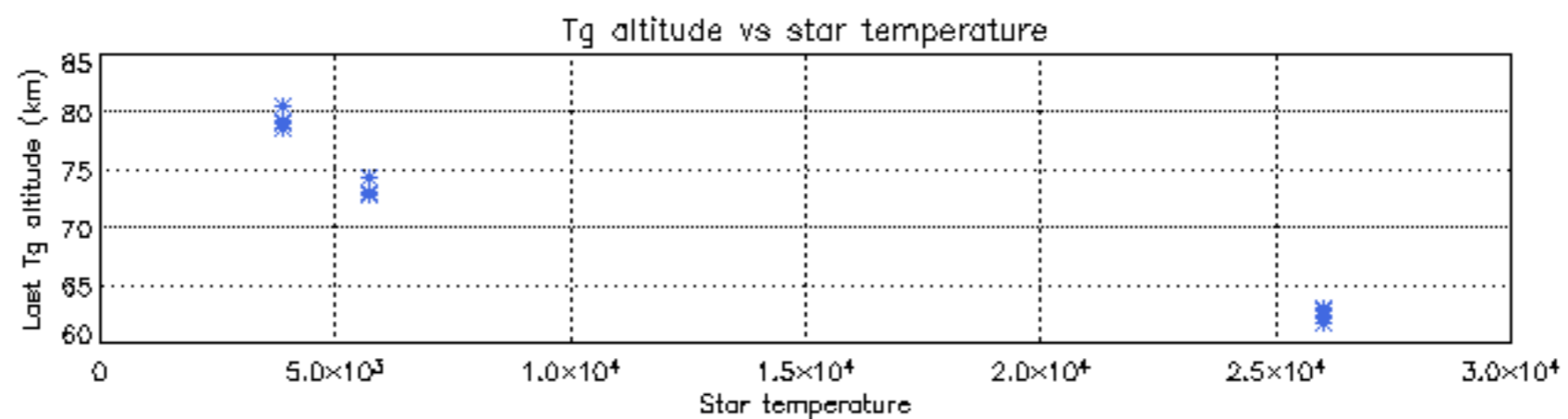
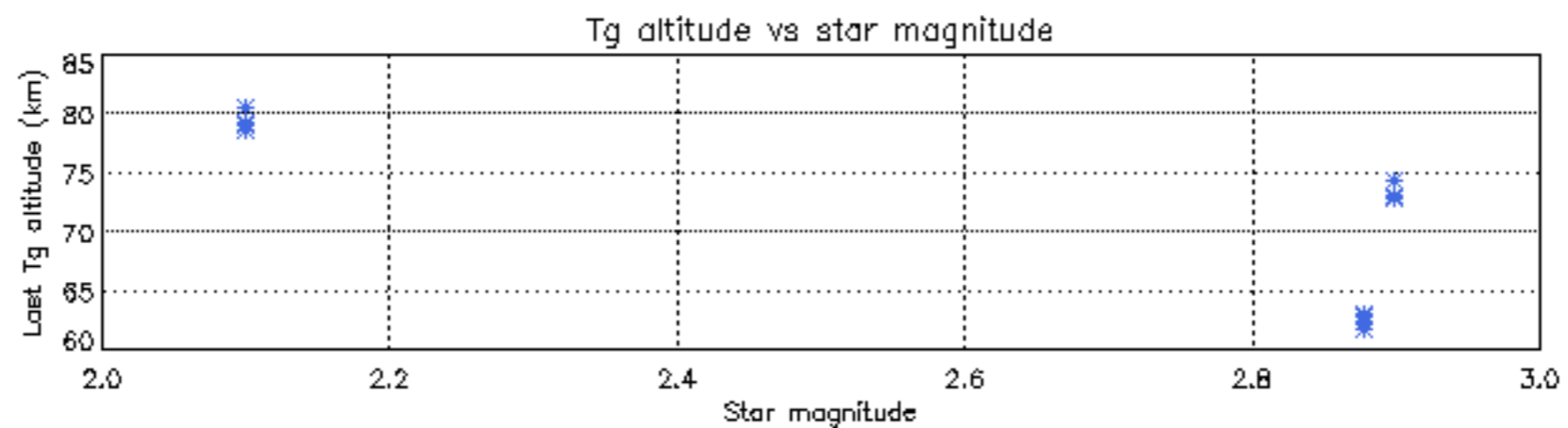
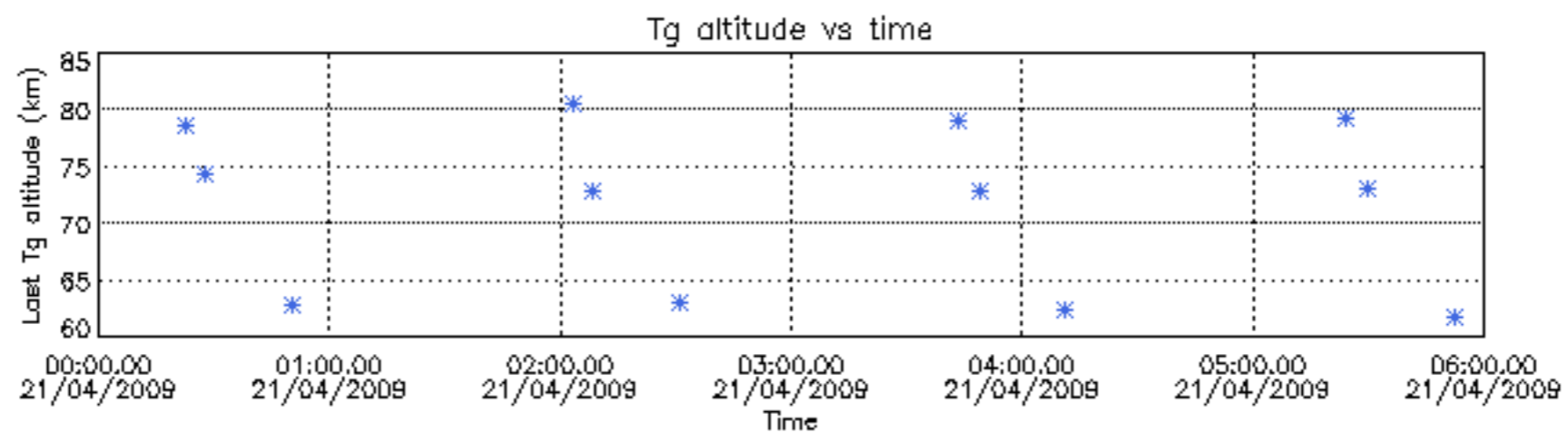
Percentage of star falling outside central band per profile

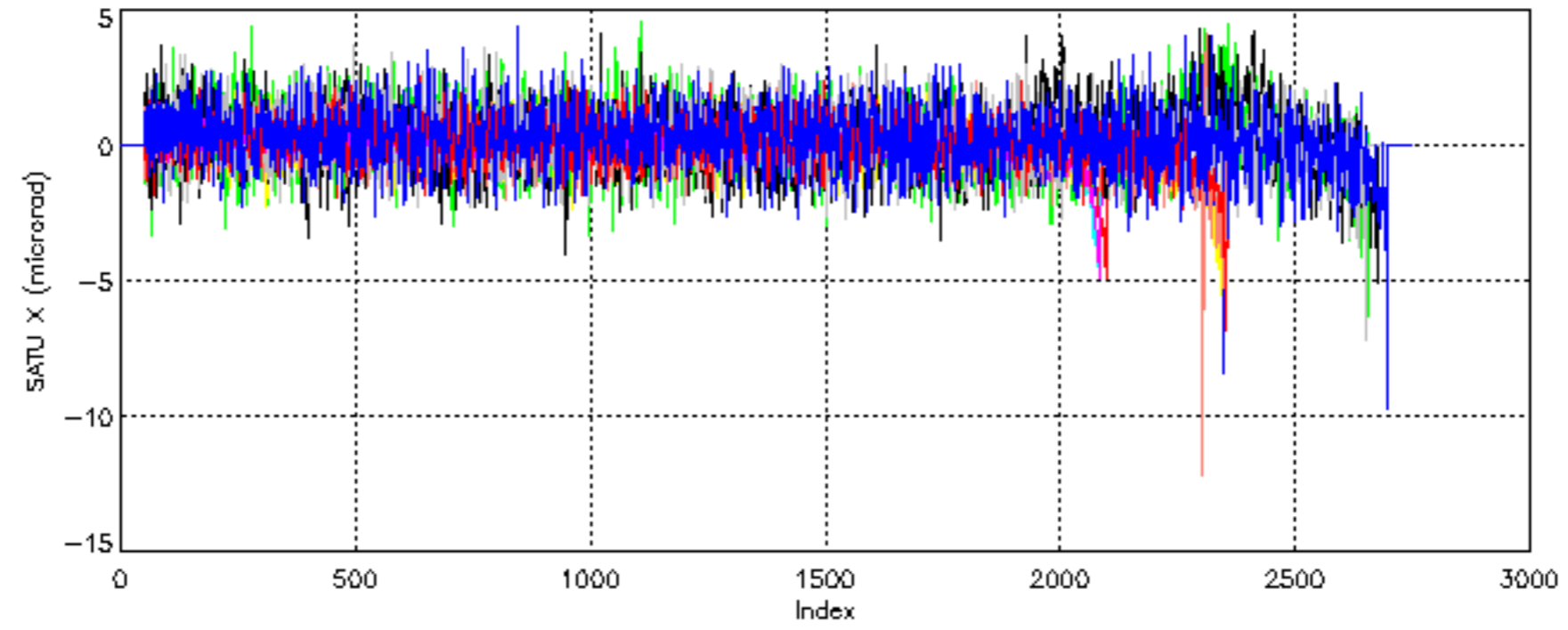


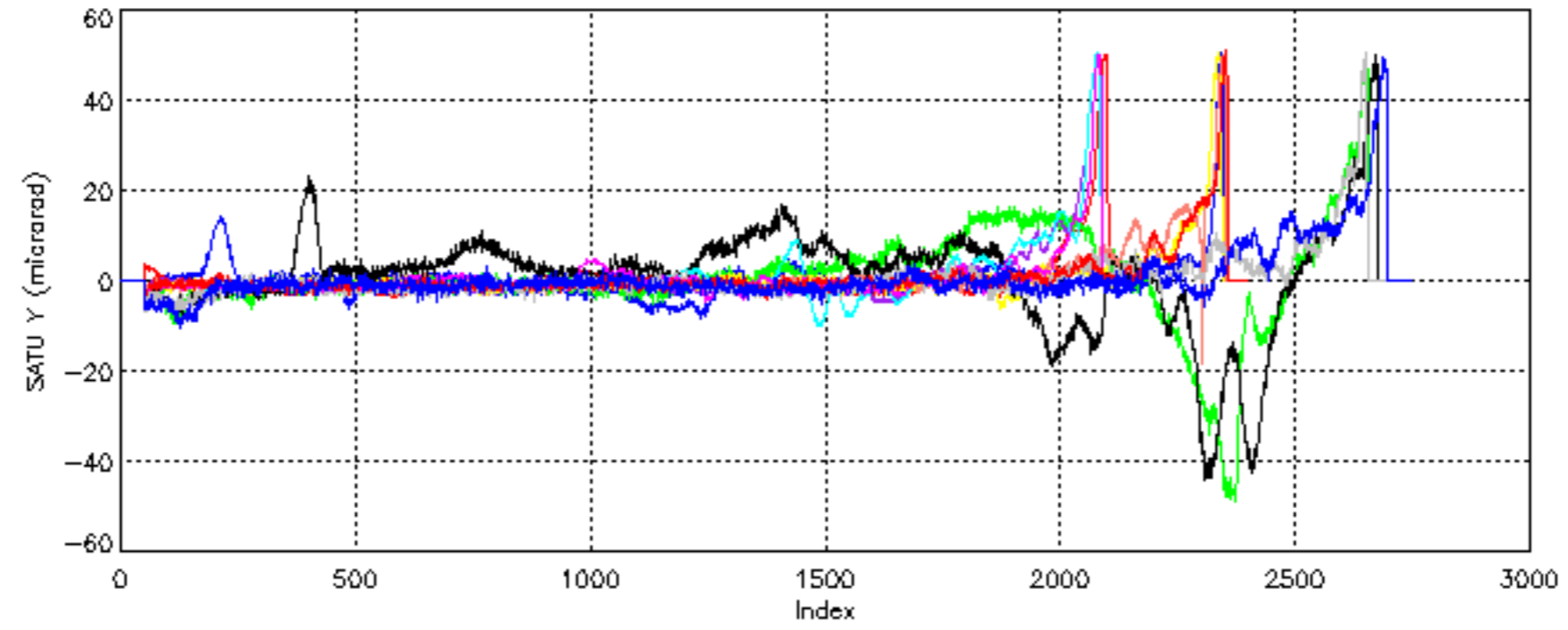
Percentage of saturation errors per profile

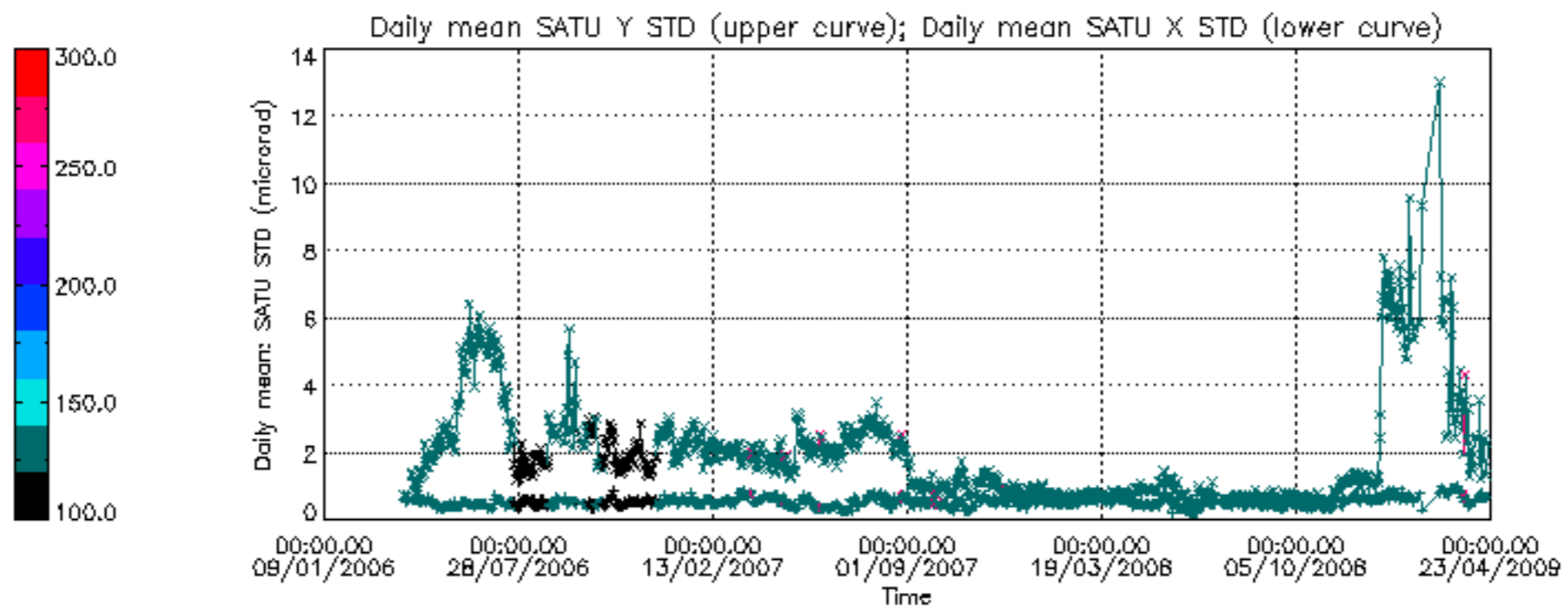


Tangent altitude at which the star is lost









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 5; 2671.2; 01-APR-2009 20:20:14; Bright; 45.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 90; 0;37056
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 8; 944.6; 01-APR-2009 21:32:03; Dark ; 45.0; 81; Eta Cen ; 2.36; 28000;occ; 90; 0;37057
 9; 1107.1; 01-APR-2009 21:34:46; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;37057
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 4; 800.4; 02-APR-2009 00:50:51; Dark ; 51.5; 131; Gam Lup ; 2.80; 26000;occ; 103; 0;37059
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 14; 4197.2; 02-APR-2009 01:47:27; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;37059
 15; 4312.9; 02-APR-2009 01:49:23; Bright; 49.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 98; 0;37059
 16; 4436.0; 02-APR-2009 01:51:26; Bright; 61.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 122; 0;37059
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6; 3277.9; 23-APR-2009 17:17:47; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;37369
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8; 4165.0; 25-APR-2009 14:48:44; Bright; 56.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 112; 0;37396
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16; 7299.3; 30-APR-2009 14:43:30; Dark ; 34.0; 16; 21Alp Sco ; 1.02; 3000;occ; 68; 0;37467
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