

GOMOS Daily Report 20-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	23APR2009 05:41:26
Data source version	GOMOS/5.00
Start time of products	20APR2009 00:09:21
Stop time of products	20APR2009 20:23:57
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

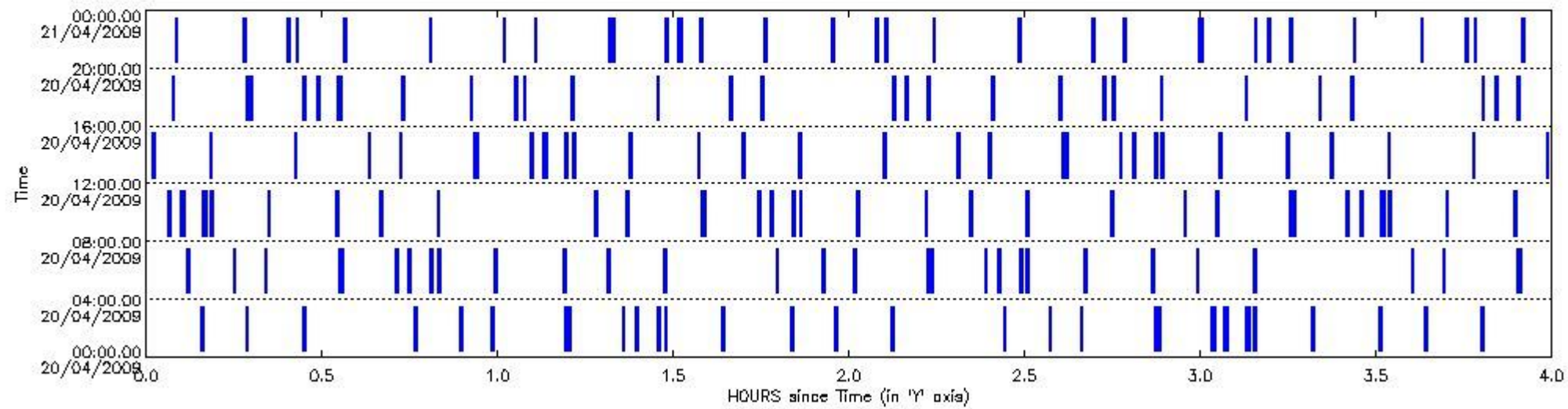
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

No missing products.

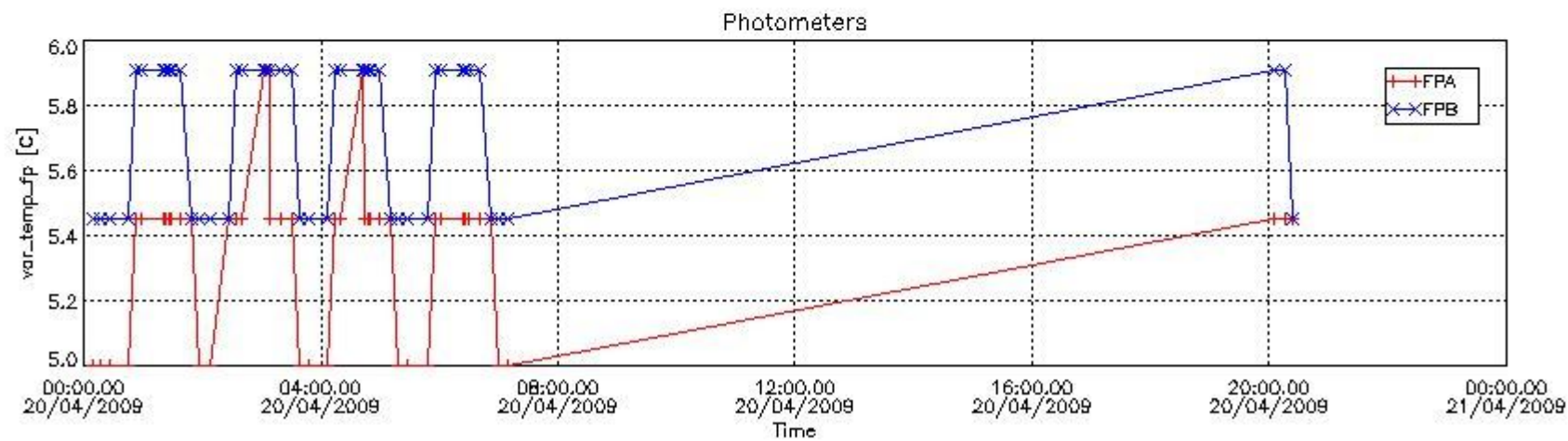
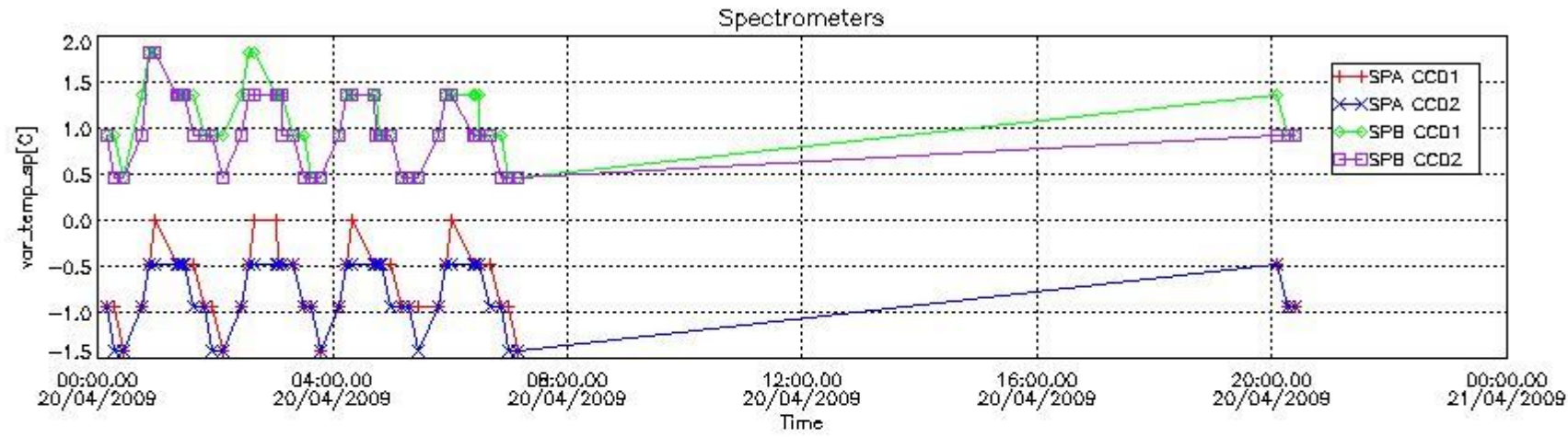
2.4 Summary of processed GOM_TRA_1P products

!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_1PNPDE20090420_000921_000000282078_00188_37316_1217.N1	20-APR-2009 00:09:21	Twilight	27.500	111	8Eta Boo	2.6800	6000.0	55	37316	No
2	GOM_TRA_1PNPDE20090420_001654_000000312078_00188_37316_1218.N1	20-APR-2009 00:16:54	Twilight	30.500	180	27Gam Boo	3.0400	8000.0	61	37316	No
3	GOM_TRA_1PNPDE20090420_002639_000000282078_00188_37316_1219.N1	20-APR-2009 00:26:39	Twilight	27.500	119	14Eta Dra	2.7270	4700.0	55	37316	No
4	GOM_TRA_1PNPDE20090420_004545_000000242078_00188_37316_1220.N1	20-APR-2009 00:45:45	Twilight	24.000	92	53Eps Cyg	2.5000	4500.0	48	37316	No
5	GOM_TRA_1PNPDE20090420_005334_000000222078_00188_37316_1221.N1	20-APR-2009 00:53:34	Dark	22.000	61	8Eps Peg	2.1000	3900.0	44	37316	No
6	GOM_TRA_1PNPDE20090420_005854_000000242078_00188_37316_1222.N1	20-APR-2009 00:58:54	Dark	24.000	154	22Bet Aqr	2.8990	5700.0	48	37316	No
7	GOM_TRA_1PNPDE20090420_012115_000000282078_00189_37317_1361.N1	20-APR-2009 01:21:15	Dark	28.000	147	Alp Ara	2.8770	26000.0	56	37317	No
8	GOM_TRA_1PNPDE20090420_012324_000000352078_00189_37317_1362.N1	20-APR-2009 01:23:24	Straylight	35.000	25	35Lam Sco	1.6200	28000.0	70	37317	No
9	GOM_TRA_1PNPDE20090420_012708_000000352078_00189_37317_1363.N1	20-APR-2009 01:27:08	Straylight	34.500	75	26Eps Sco	2.2910	4250.0	69	37317	No
10	GOM_TRA_1PNPDE20090420_012828_000000262078_00189_37317_1364.N1	20-APR-2009 01:28:28	Straylight	26.000	131	Gam Lup	2.8000	26000.0	52	37317	No
11	GOM_TRA_1PNPDE20090420_013815_000000282078_00189_37317_1365.N1	20-APR-2009 01:38:15	Twilight	28.000	122	9Alp2Lib	2.7470	9700.0	56	37317	No

12	GOM_TRA_1PNPDE20090420_014957_000000272078_00189_37317_1366.N1	20-APR-2009 01:49:57	Twilight	27.000	111	8Eta Boo	2.6800	6000.0	54	37317	No
13	GOM_TRA_1PNPDE20090420_015730_000000302078_00189_37317_1367.N1	20-APR-2009 01:57:30	Twilight	29.500	180	27Gam Boo	3.0400	8000.0	59	37317	No
14	GOM_TRA_1PNPDE20090420_020714_000000272078_00189_37317_1368.N1	20-APR-2009 02:07:14	Twilight	26.500	119	14Eta Dra	2.7270	4700.0	53	37317	No
15	GOM_TRA_1PNPDE20090420_022621_000000242078_00189_37317_1510.N1	20-APR-2009 02:26:21	Twilight	23.500	92	53Eps Cyg	2.5000	4500.0	47	37317	No
16	GOM_TRA_1PNPDE20090420_023411_000000222078_00189_37317_1511.N1	20-APR-2009 02:34:11	Dark	21.500	61	8Eps Peg	2.1000	3900.0	43	37317	No
17	GOM_TRA_1PNPDE20090420_023931_000000242078_00189_37317_1512.N1	20-APR-2009 02:39:31	Dark	24.000	154	22Bet Aqr	2.8990	5700.0	48	37317	No
18	GOM_TRA_1PNPDE20090420_030152_000000372078_00190_37318_1513.N1	20-APR-2009 03:01:52	Dark	36.500	147	Alp Ara	2.8770	26000.	73	37318	No
19	GOM_TRA_1PNPDE20090420_030401_000000412078_00190_37318_1514.N1	20-APR-2009 03:04:01	Straylight	40.500	25	35Lam Sco	1.6200	28000.	81	37318	No
20	GOM_TRA_1PNPDE20090420_030745_000000402078_00190_37318_1515.N1	20-APR-2009 03:07:45	Straylight	39.500	75	26Eps Sco	2.2910	4250.0	79	37318	No
21	GOM_TRA_1PNPDE20090420_030904_000000302078_00190_37318_1516.N1	20-APR-2009 03:09:04	Straylight	29.500	131	Gam Lup	2.8000	26000.	59	37318	No
22	GOM_TRA_1PNPDE20090420_031851_000000322078_00190_37318_1517.N1	20-APR-2009 03:18:51	Twilight	32.000	122	9Alp2Lib	2.7470	9700.0	64	37318	No
23	GOM_TRA_1PNPDE20090420_033032_000000302078_00190_37318_1518.N1	20-APR-2009 03:30:32	Twilight	30.000	111	8Eta Boo	2.6800	6000.0	60	37318	No
24	GOM_TRA_1PNPDE20090420_033805_000000332078_00190_37318_1519.N1	20-APR-2009 03:38:05	Twilight	33.000	180	27Gam Boo	3.0400	8000.0	66	37318	No
25	GOM_TRA_1PNPDE20090420_034749_000000302078_00190_37318_1520.N1	20-APR-2009 03:47:49	Twilight	29.500	119	14Eta Dra	2.7270	4700.0	59	37318	No
26	GOM_TRA_1PNPDE20090420_040657_000000282078_00190_37318_1694.N1	20-APR-2009 04:06:57	Twilight	28.000	92	53Eps Cyg	2.5000	4500.0	56	37318	No
27	GOM_TRA_1PNPDE20090420_041447_000000242078_00190_37318_1695.N1	20-APR-2009 04:14:47	Dark	23.500	61	8Eps Peg	2.1000	3900.0	47	37318	No
28	GOM_TRA_1PNPDE20090420_042008_000000262078_00190_37318_1696.N1	20-APR-2009 04:20:08	Dark	26.000	154	22Bet Aqr	2.8990	5700.0	52	37318	No
29	GOM_TRA_1PNPDE20090420_044230_000000322078_00191_37319_1697.N1	20-APR-2009 04:42:30	Dark	31.500	147	Alp Ara	2.8770	26000.	63	37319	No
30	GOM_TRA_1PNPDE20090420_044438_000000382078_00191_37319_1698.N1	20-APR-2009 04:44:38	Straylight	38.000	25	35Lam Sco	1.6200	28000.	76	37319	No
31	GOM_TRA_1PNPDE20090420_044822_000000382078_00191_37319_1699.N1	20-APR-2009 04:48:22	Straylight	37.500	75	26Eps Sco	2.2910	4250.0	75	37319	No
32	GOM_TRA_1PNPDE20090420_044941_000000282078_00191_37319_1700.N1	20-APR-2009 04:49:41	Straylight	28.000	131	Gam Lup	2.8000	26000.	56	37319	No
33	GOM_TRA_1PNPDE20090420_045927_000000302078_00191_37319_1701.N1	20-APR-2009 04:59:27	Twilight	30.000	122	9Alp2Lib	2.7470	9700.0	60	37319	No
34	GOM_TRA_1PNPDE20090420_051108_000000292078_00191_37319_1702.N1	20-APR-2009 05:11:08	Twilight	28.500	111	8Eta Boo	2.6800	6000.0	57	37319	No
35	GOM_TRA_1PNPDE20090420_051840_000000322078_00191_37319_1703.N1	20-APR-2009 05:18:40	Twilight	31.500	180	27Gam Boo	3.0400	8000.0	63	37319	No
36	GOM_TRA_1PNPDE20090420_052825_000000282078_00191_37319_1704.N1	20-APR-2009 05:28:25	Twilight	28.000	119	14Eta Dra	2.7270	4700.0	56	37319	No
37	GOM_TRA_1PNPDE20090420_054733_000000262078_00191_37319_1845.N1	20-APR-2009 05:47:33	Twilight	26.000	92	53Eps Cyg	2.5000	4500.0	52	37319	No
38	GOM_TRA_1PNPDE20090420_055524_000000232078_00191_37319_1846.N1	20-APR-2009 05:55:24	Dark	23.000	61	8Eps Peg	2.1000	3900.0	46	37319	No
39	GOM_TRA_1PNPDE20090420_060045_000000262078_00191_37319_1847.N1	20-APR-2009 06:00:45	Dark	25.500	154	22Bet Aqr	2.8990	5700.0	51	37319	No
40	GOM_TRA_1PNPDE20090420_062306_000000302078_00192_37320_1848.N1	20-APR-2009 06:23:06	Dark	29.500	147	Alp Ara	2.8770	26000.	59	37320	No
41	GOM_TRA_1PNPDE20090420_062515_000000382078_00192_37320_1849.N1	20-APR-2009 06:25:15	Straylight	37.500	25	35Lam Sco	1.6200	28000.	75	37320	No
42	GOM_TRA_1PNPDE20090420_062859_000000372078_00192_37320_1850.N1	20-APR-2009 06:28:59	Straylight	36.500	75	26Eps Sco	2.2910	4250.0	73	37320	No
43	GOM_TRA_1PNPDE20090420_063018_000000282078_00192_37320_1851.N1	20-APR-2009 06:30:18	Straylight	27.500	131	Gam Lup	2.8000	26000.	55	37320	No
44	GOM_TRA_1PNPDE20090420_064003_000000302078_00192_37320_1852.N1	20-APR-2009 06:40:03	Twilight	29.500	122	9Alp2Lib	2.7470	9700.0	59	37320	No
45	GOM_TRA_1PNPDE20090420_065144_000000282078_00192_37320_1853.N1	20-APR-2009 06:51:44	Twilight	28.000	111	8Eta Boo	2.6800	6000.0	56	37320	No
46	GOM_TRA_1PNPDE20090420_065915_000000312078_00192_37320_1854.N1	20-APR-2009 06:59:15	Twilight	31.000	180	27Gam Boo	3.0400	8000.0	62	37320	No
47	GOM_TRA_1PNPDE20090420_070900_000000282078_00192_37320_1855.N1	20-APR-2009 07:09:00	Twilight	27.500	119	14Eta Dra	2.7270	4700.0	55	37320	No
48	GOM_TRA_1PNPDE20090420_200451_000000282078_00200_37328_2348.N1	20-APR-2009 20:04:51	Twilight	27.500	122	9Alp2Lib	2.7470	9700.0	55	37328	No
49	GOM_TRA_1PNPDE20090420_201628_000000272078_00200_37328_2349.N1	20-APR-2009 20:16:28	Twilight	26.500	111	8Eta Boo	2.6800	6000.0	53	37328	No
50	GOM_TRA_1PNPDE20090420_202357_000000292078_00200_37328_2350.N1	20-APR-2009 20:23:57	Twilight	29.000	180	27Gam Boo	3.0400	8000.0	58	37328	No

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



4. Overview of dark signal processing per product

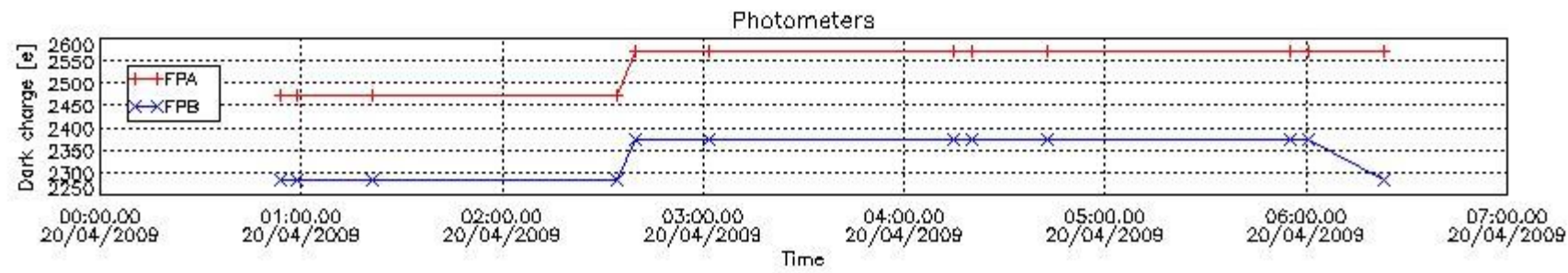
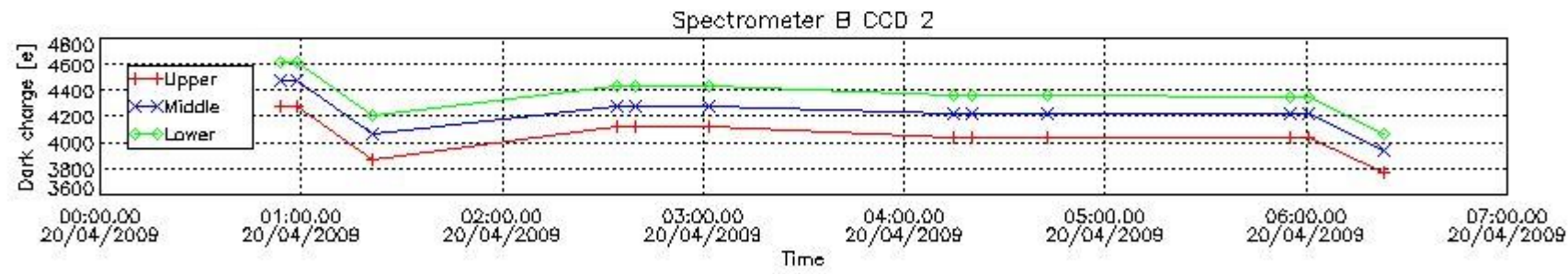
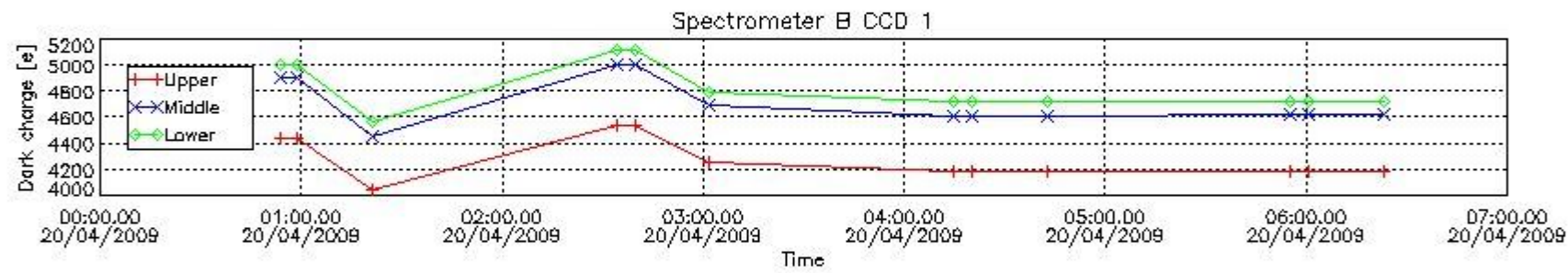
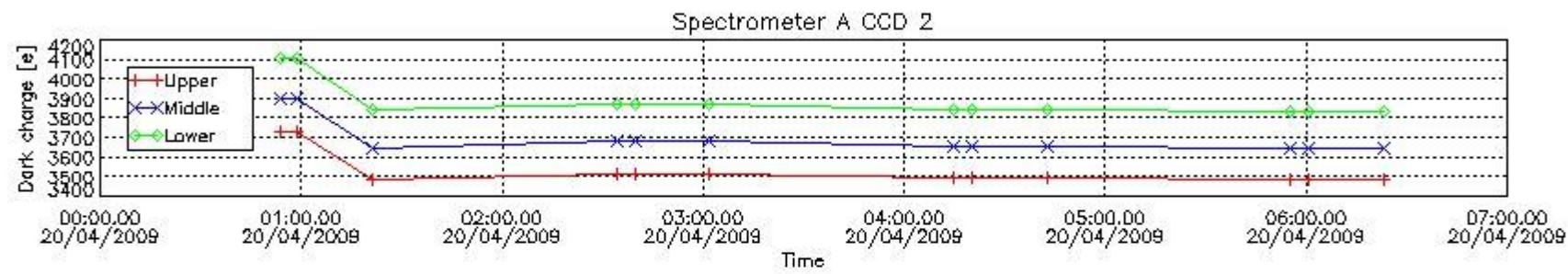
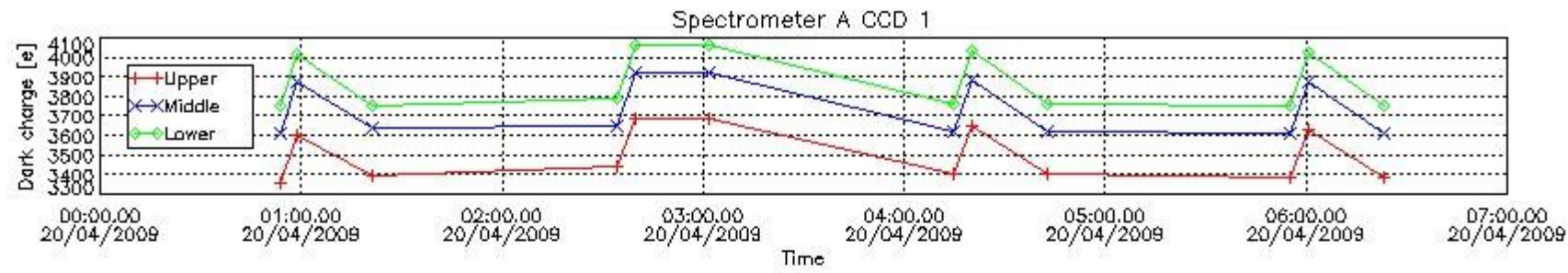
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090420_200451_000000282078_00200_37328_2348.N1	DC map used
GOM_TRA_1PNPDE20090420_201628_000000272078_00200_37328_2349.N1	DC map used
GOM_TRA_1PNPDE20090420_202357_000000292078_00200_37328_2350.N1	DC map used

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



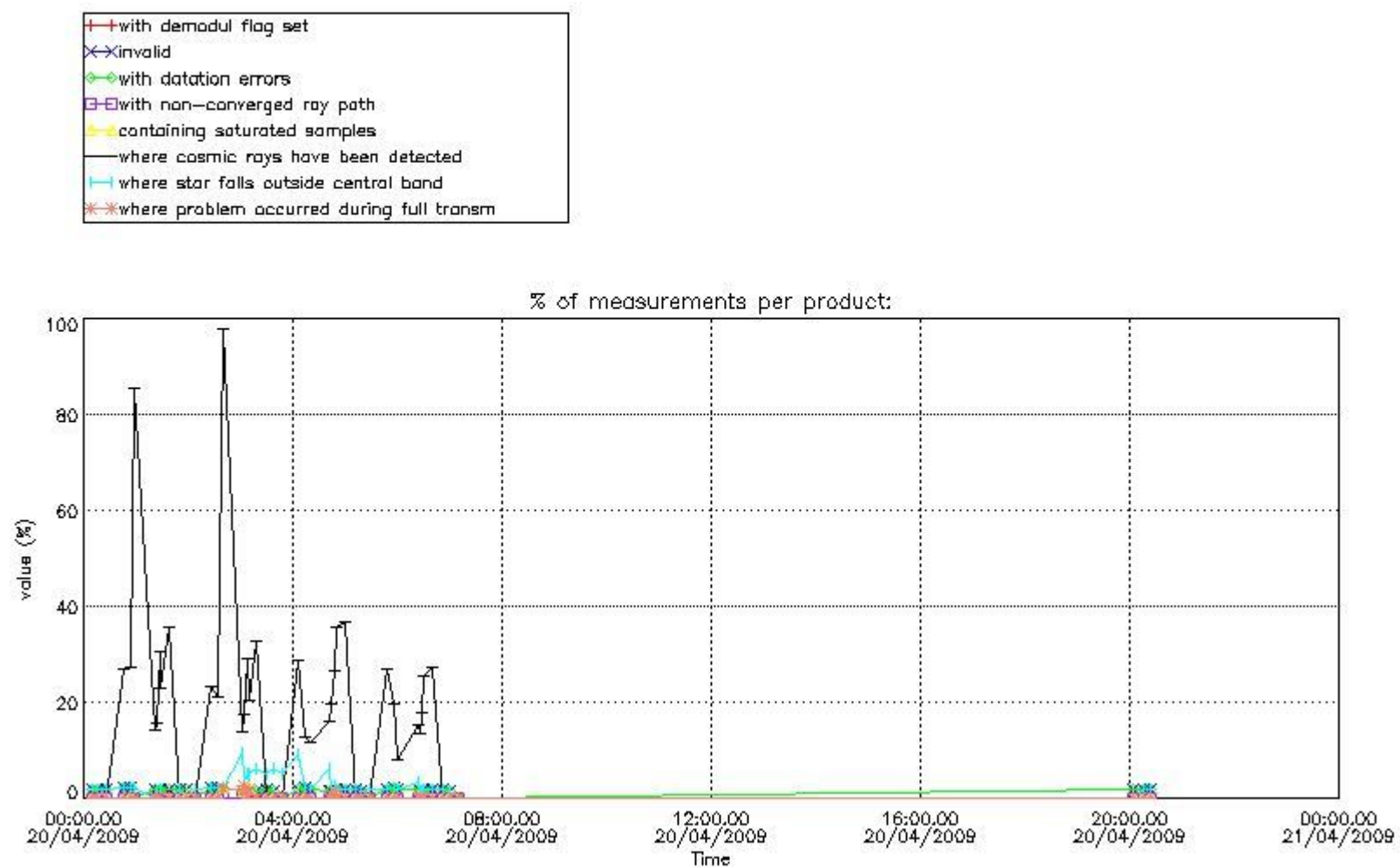
5. Demodulation flag and quality information monitoring

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.

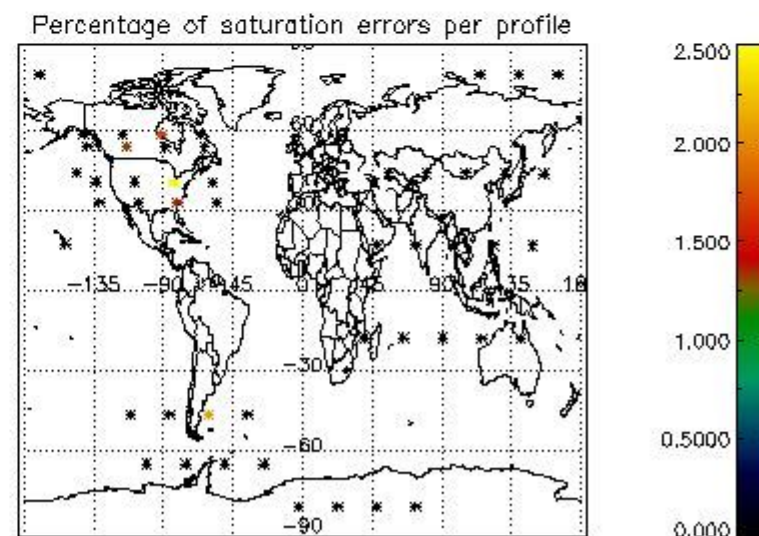
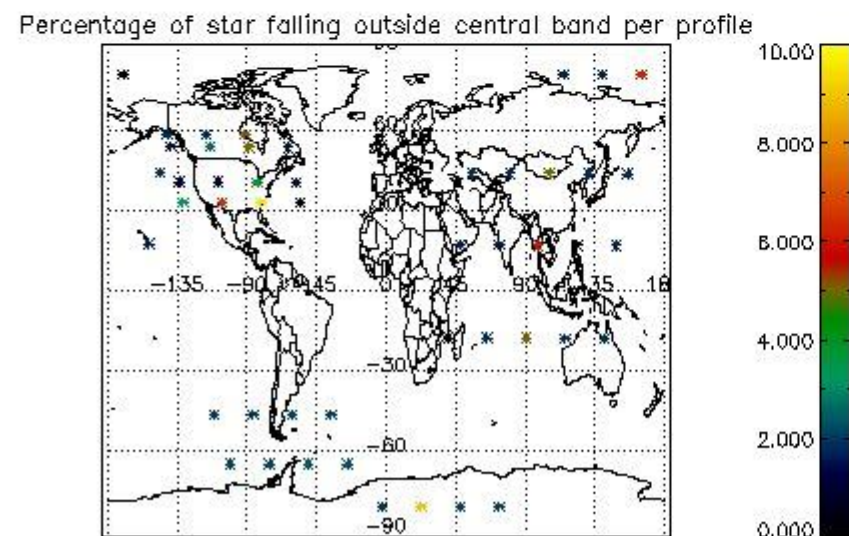
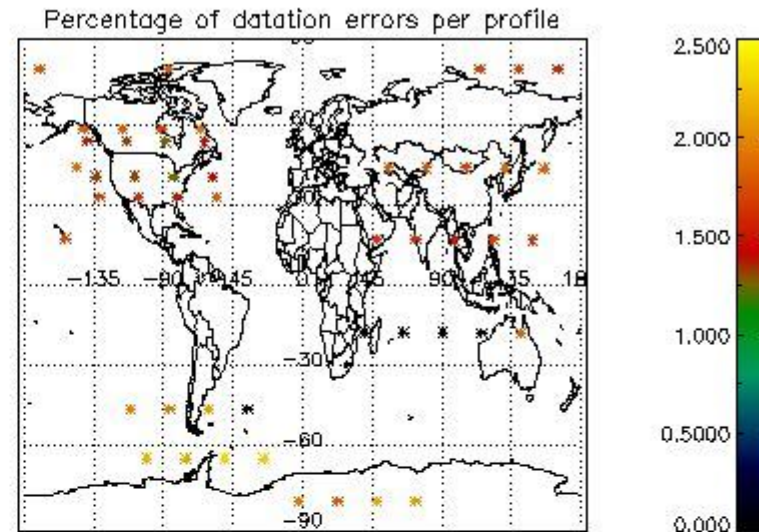
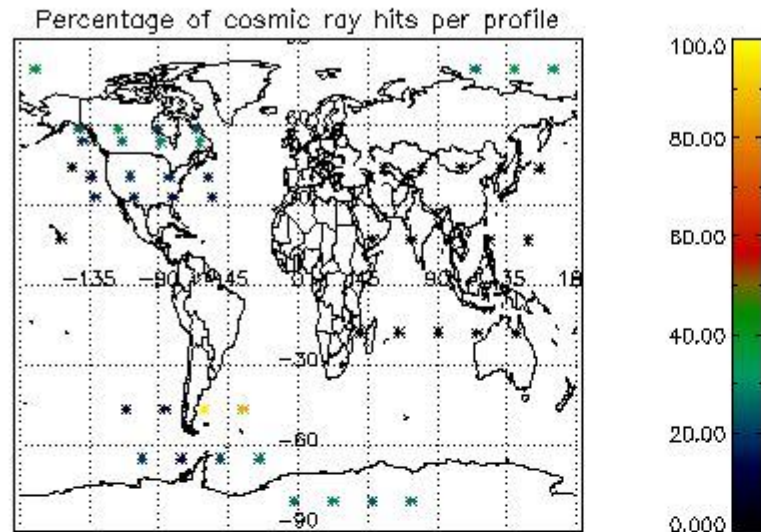
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.0000 %
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)



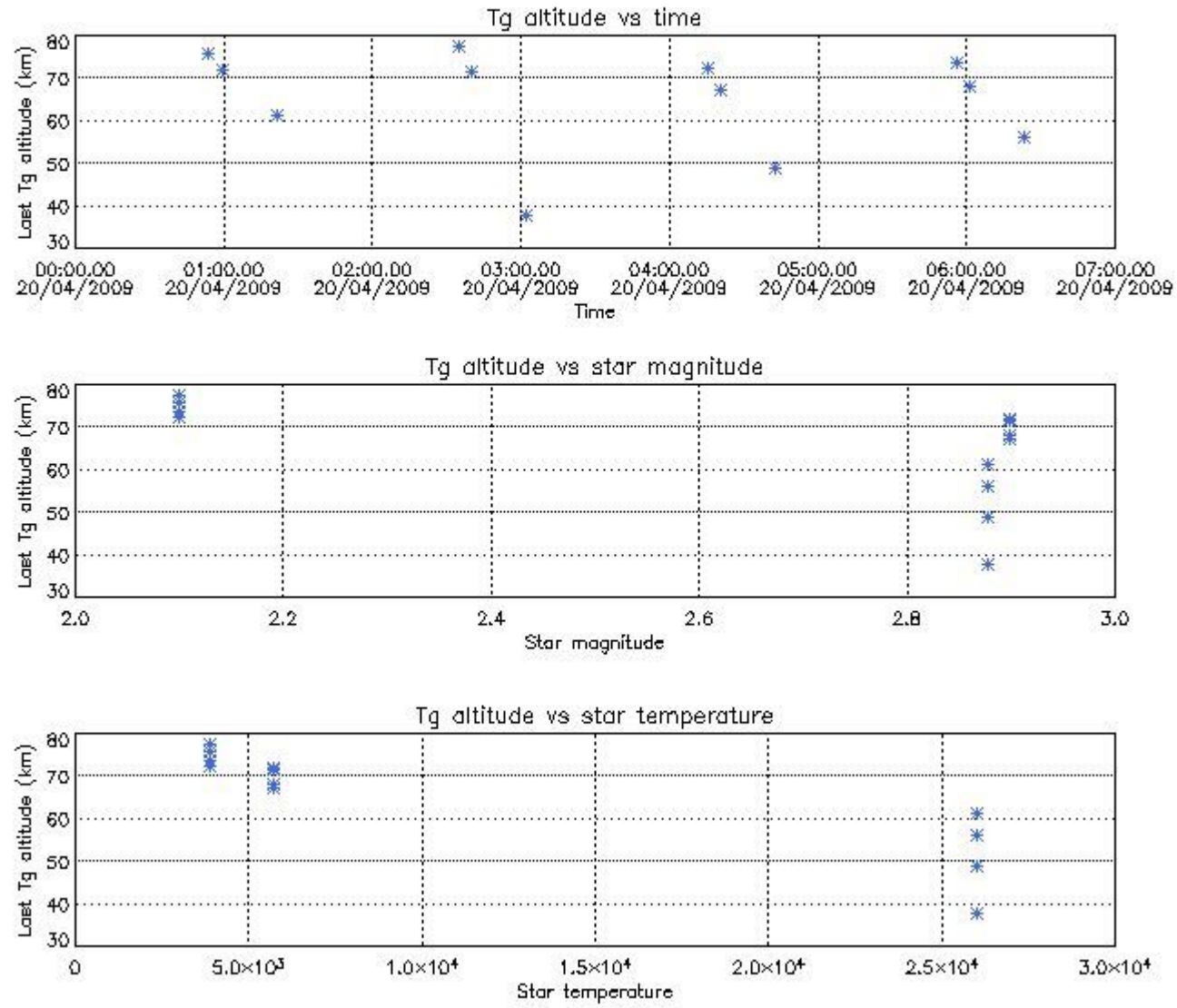
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	65.107	NaN	NaN
St. deviation:	12.038	NaN	NaN
Maximum:	77.427	NaN	NaN
Minimum:	37.886	NaN	NaN
Number of data:	12.000	NaN	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

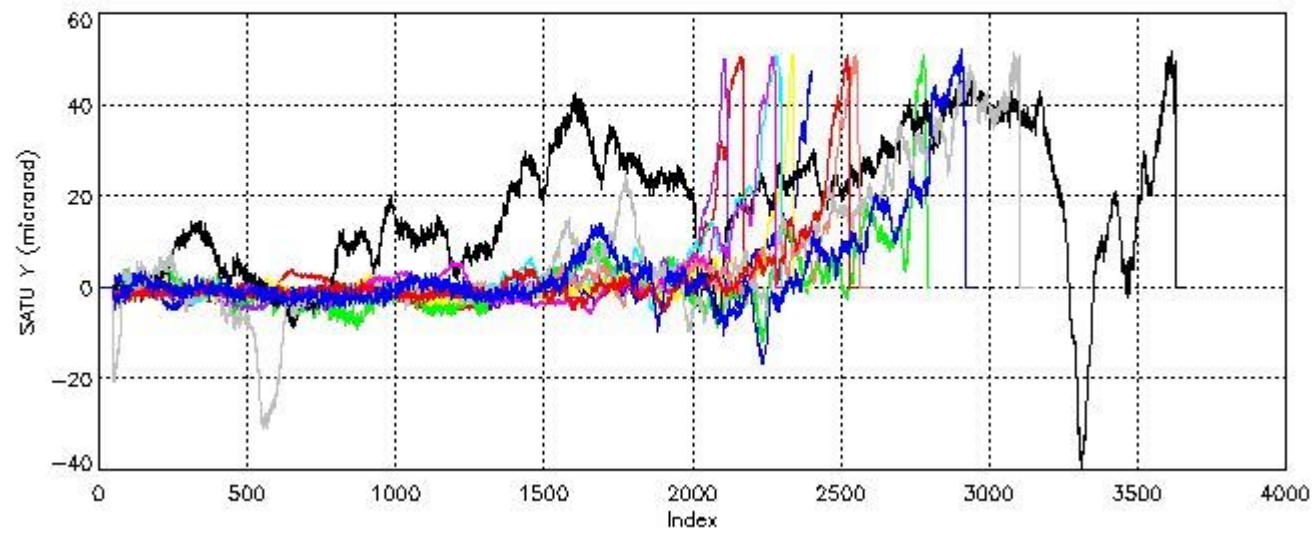
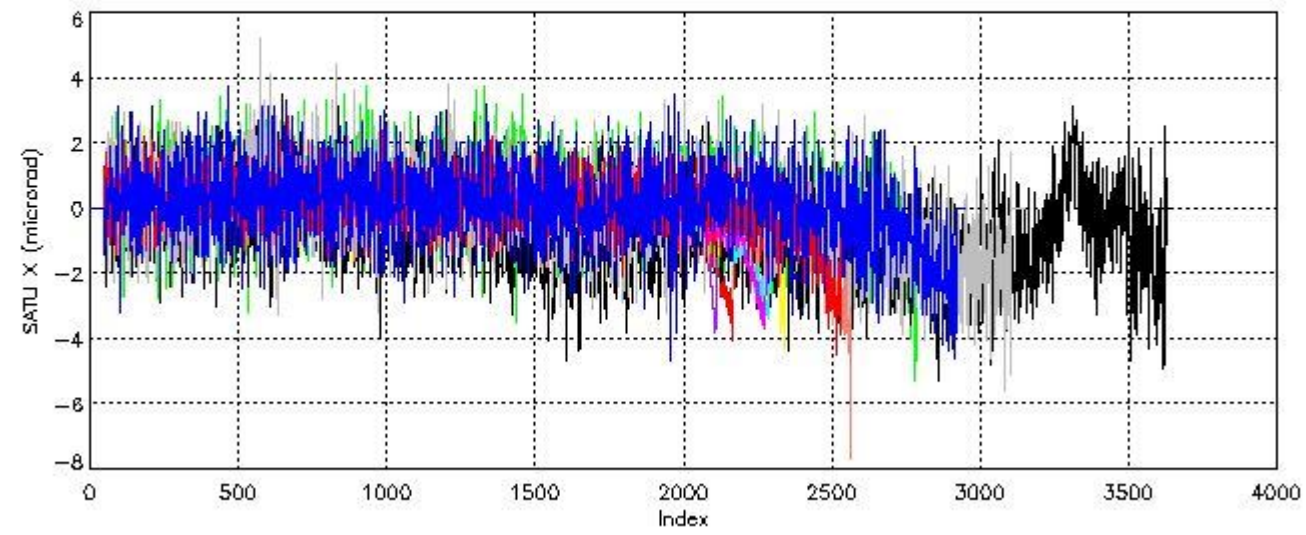


7. Star Acquisition and Tracking Unit (SATU)

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:	0.30297	-0.86579	NaN	NaN
St. deviation:	0.67951	2.2710	NaN	NaN
Maximum:	5.2000	20.100	NaN	NaN
Minimum:	-4.0000	-30.800	NaN	NaN

Number of data:	12850.	12850.	NaN	NaN
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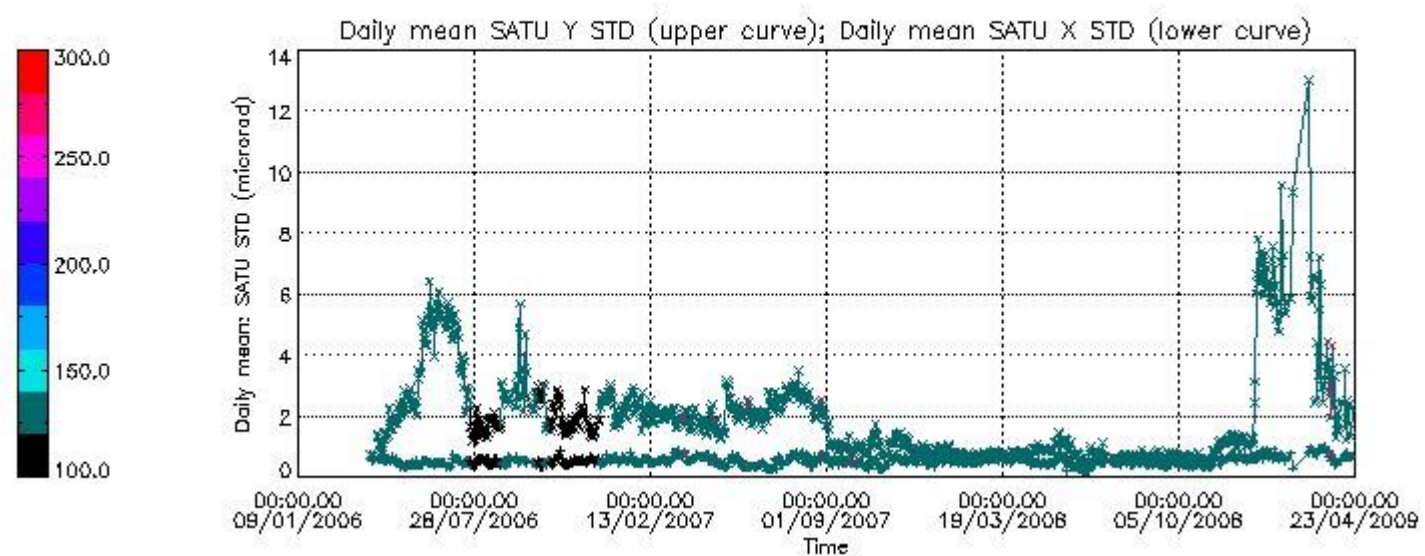
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

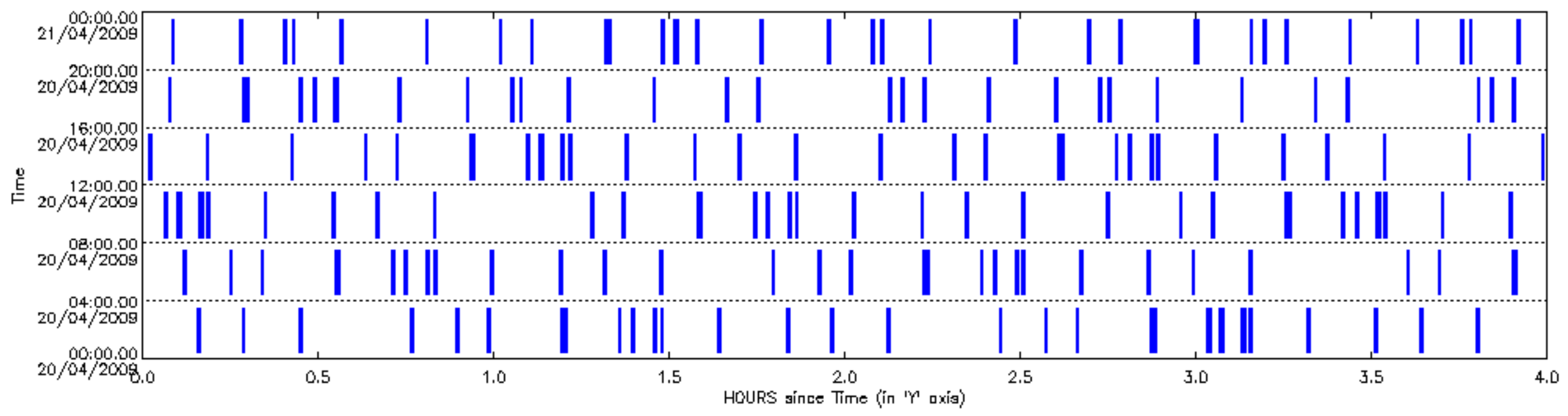
Lower curve: STD of SATU X axis

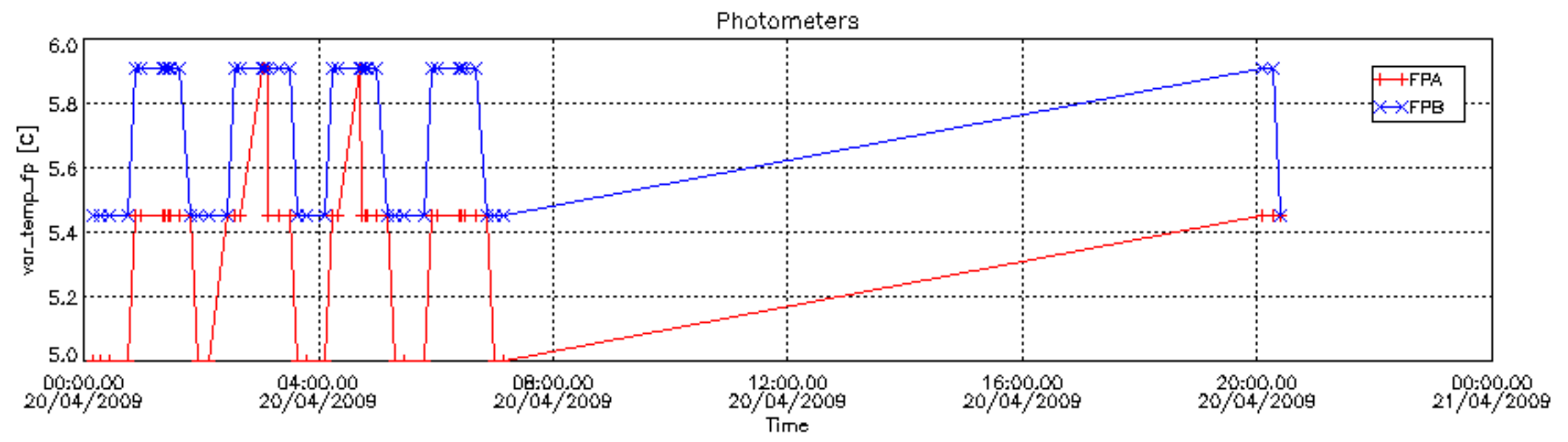
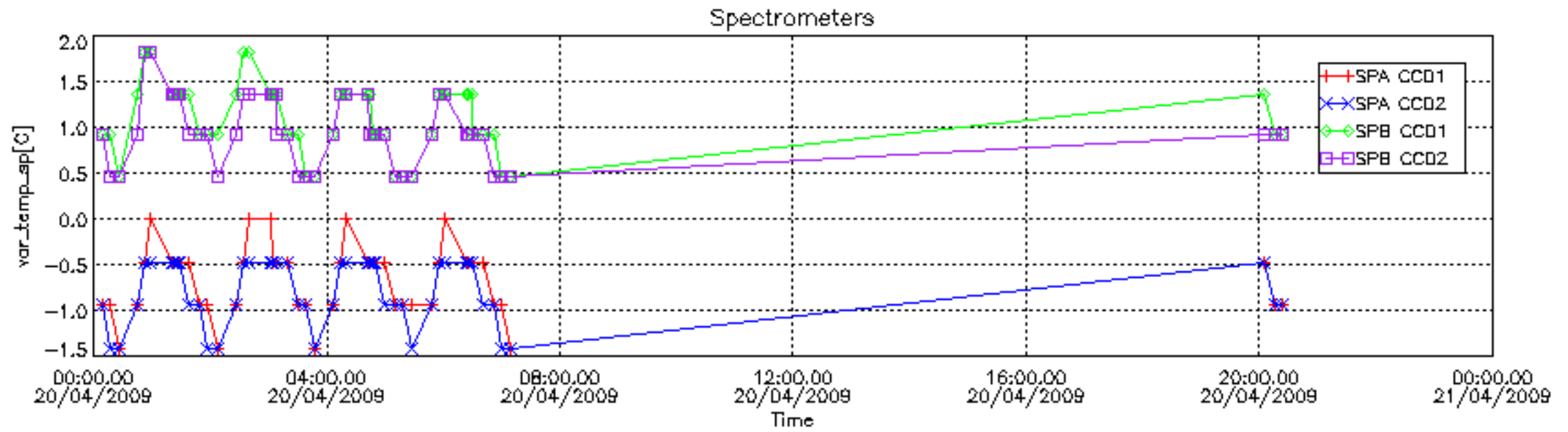


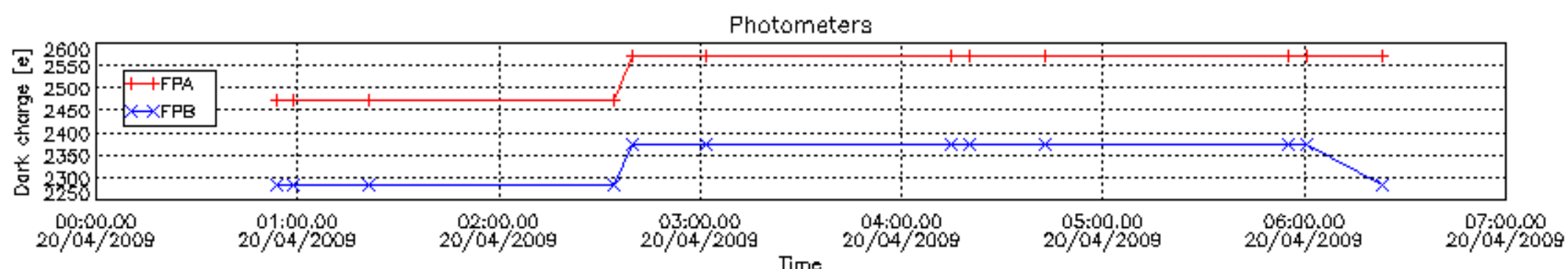
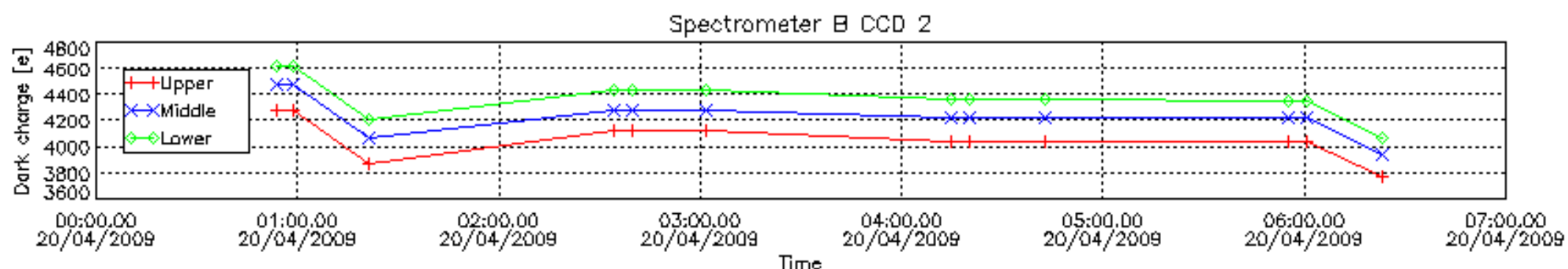
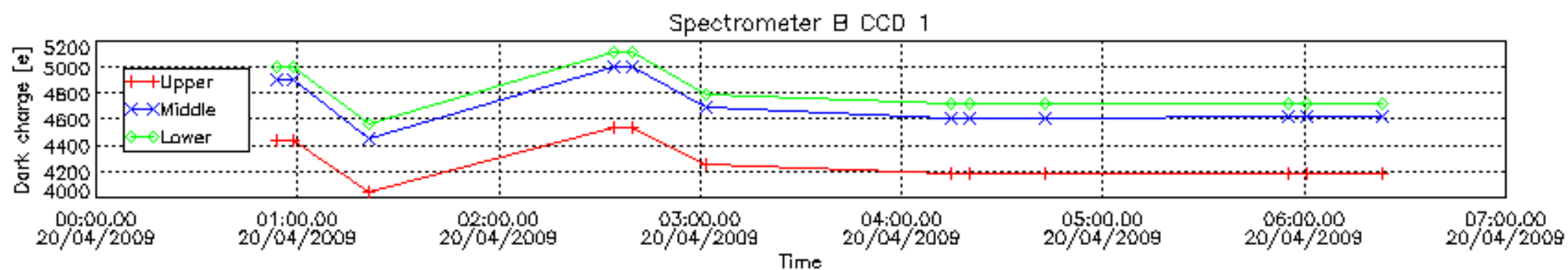
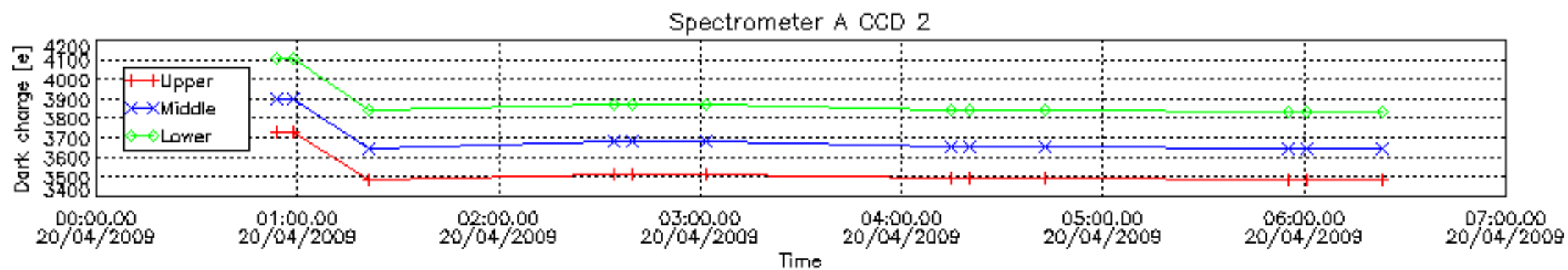
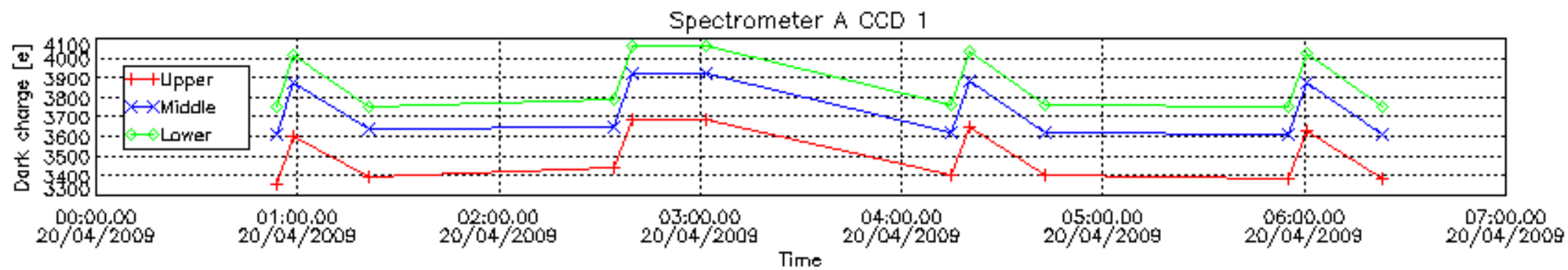
8. Auxiliary Data Files used for the production reported in section 2.4

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.

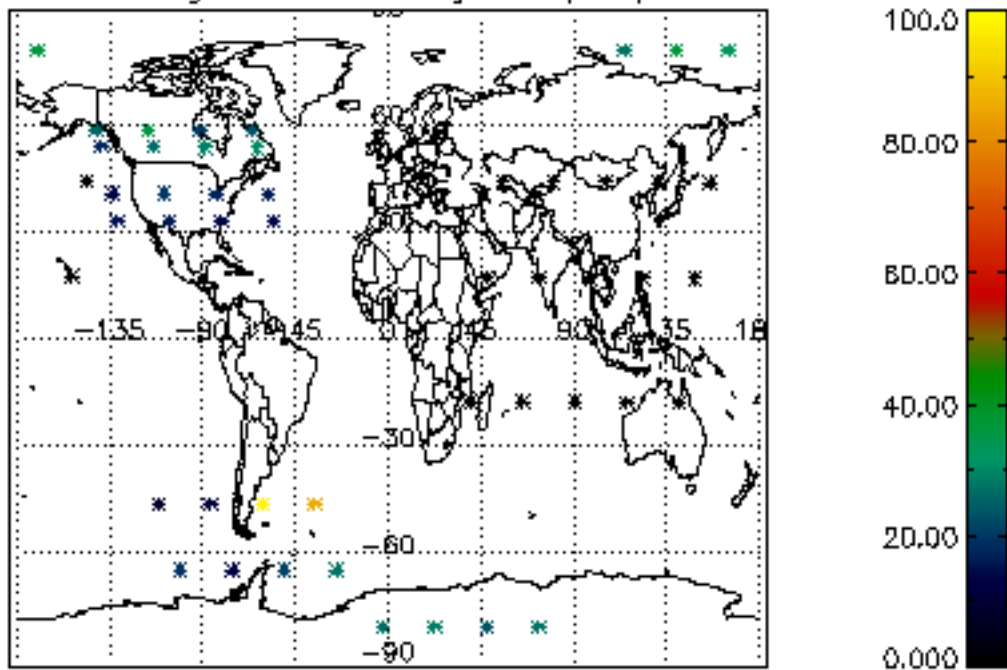
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	20-APR-2009 00:09:21
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090414_083029_20090412_000000_20100101_000000	1	20-APR-2009 00:09:21
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	20-APR-2009 00:09:21
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-APR-2009 00:09:21
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	20-APR-2009 00:09:21
ECMWF_FILE	AUX_ECF_AXNECM20090419_064113_20090419_210000_20090420_090000	1	20-APR-2009 00:09:21
ECMWF_FILE	AUX_ECF_AXNECM20090419_184111_20090420_030000_20090420_150000	26	20-APR-2009 04:06:57
ECMWF_FILE	AUX_ECF_AXNECM20090420_064112_20090420_150000_20090421_030000	48	20-APR-2009 20:04:51
OPTIONAL_ECMWF_FILE	MISSING	1	20-APR-2009 00:09:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090419_213312_000057382078_00186_37314_7784.N1	1	20-APR-2009 00:09:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090419_231409_000060572078_00187_37315_7785.N1	7	20-APR-2009 01:21:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090420_010025_000041442078_00188_37316_7786.N1	15	20-APR-2009 02:26:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090420_035026_000057382078_00190_37318_7788.N1	26	20-APR-2009 04:06:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090420_195208_000038262078_00200_37328_7790.N1	48	20-APR-2009 20:04:51



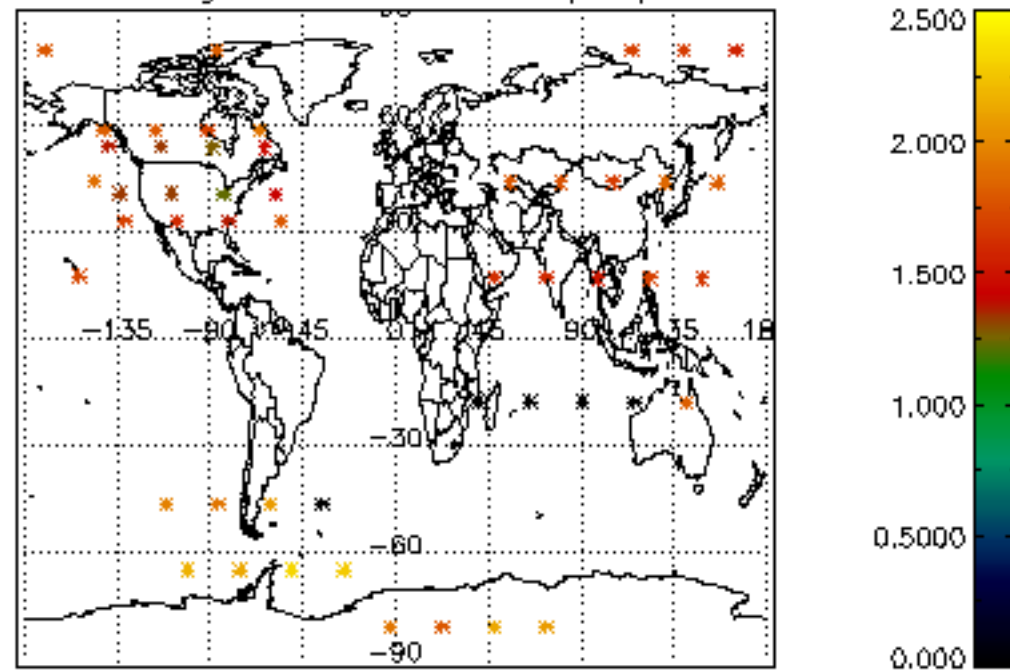




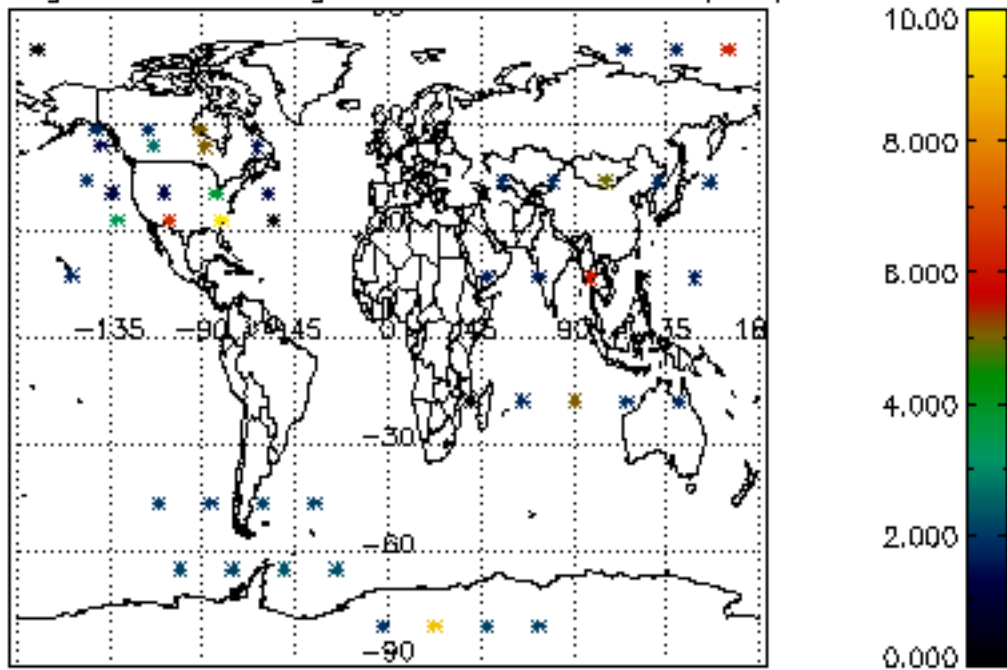
Percentage of cosmic ray hits per profile



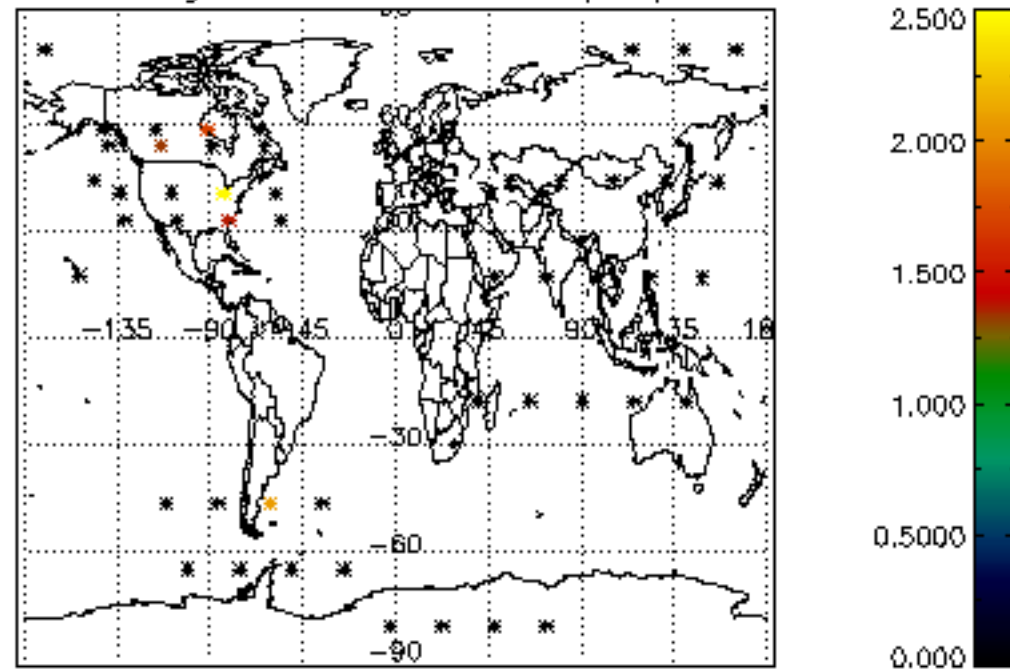
Percentage of datation errors per profile



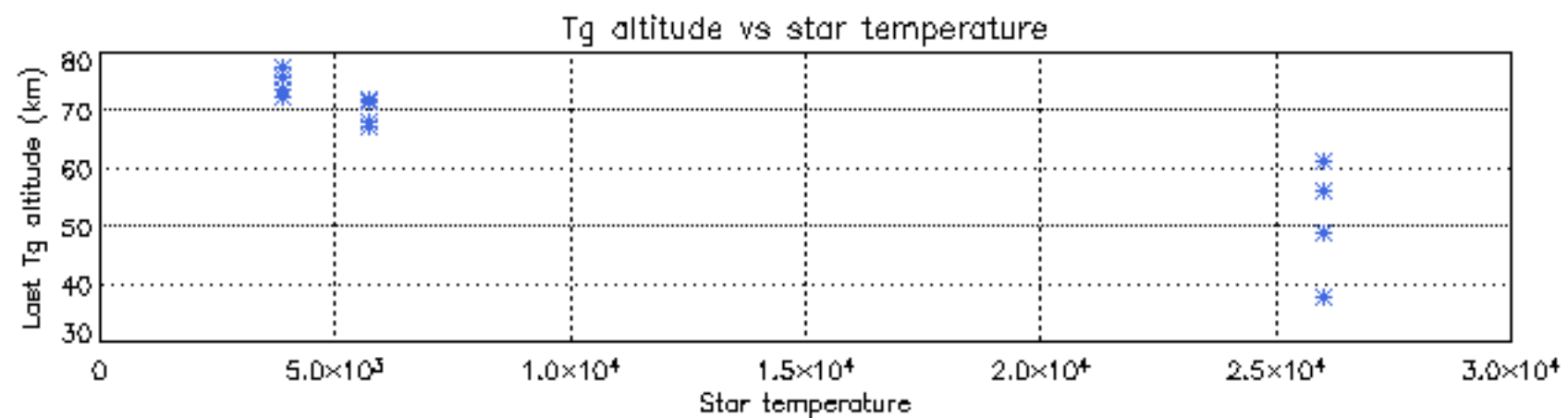
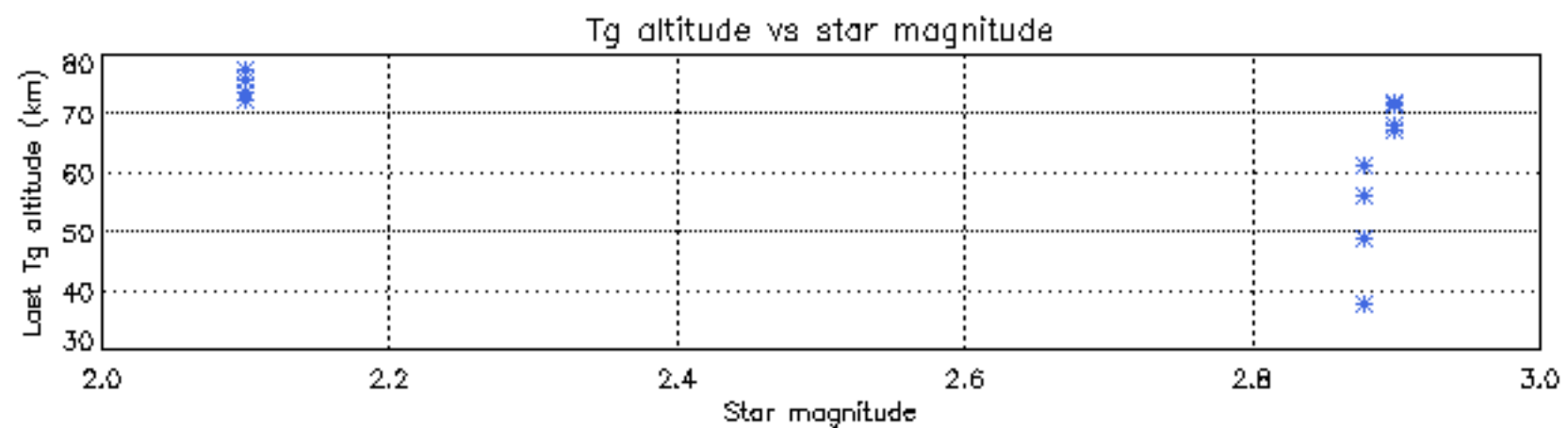
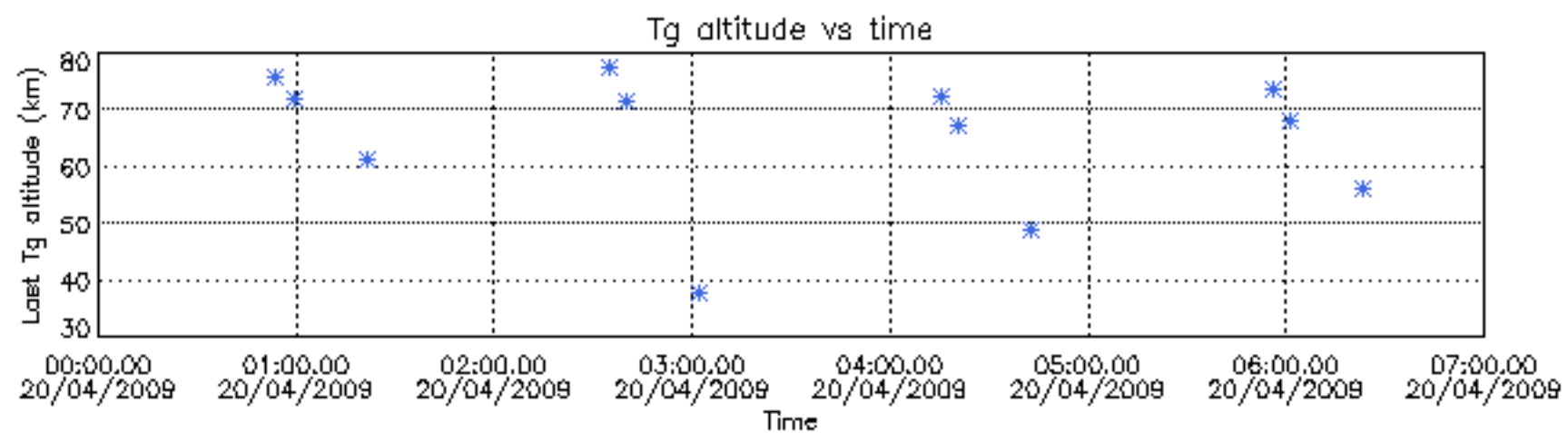
Percentage of star falling outside central band per profile

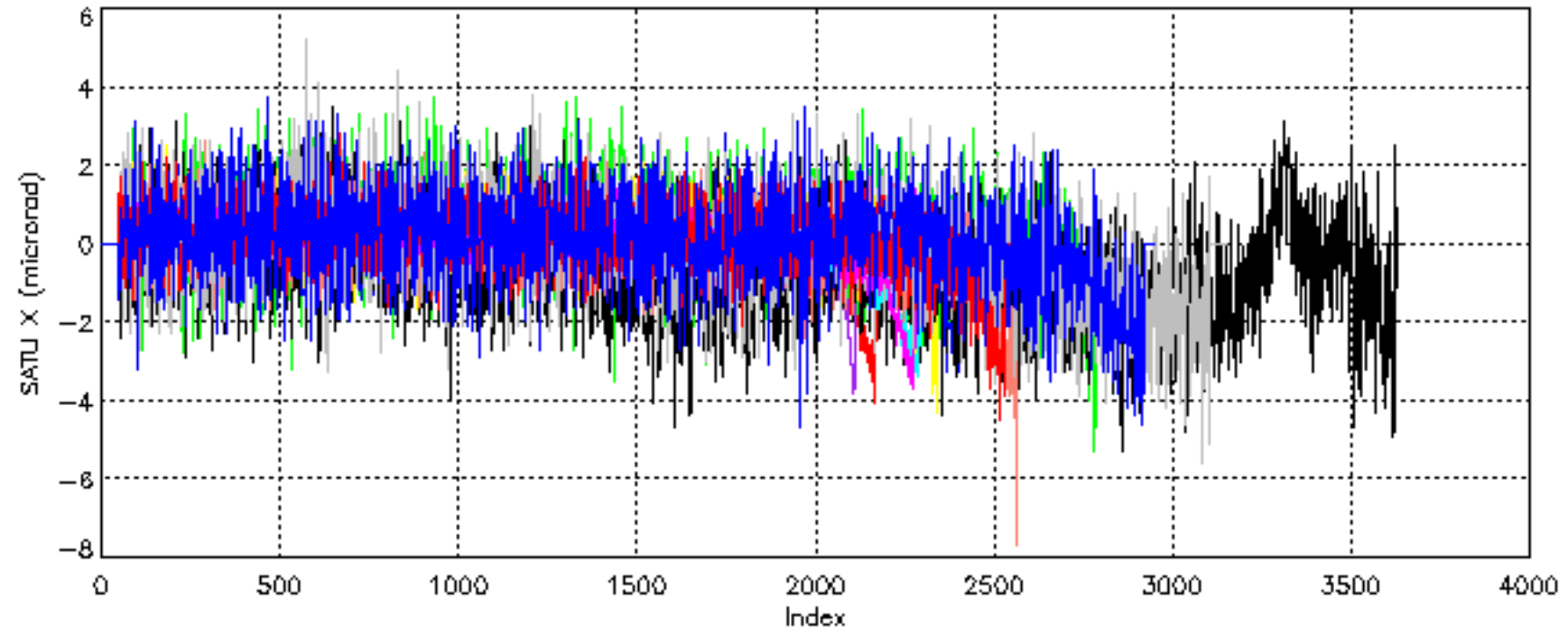


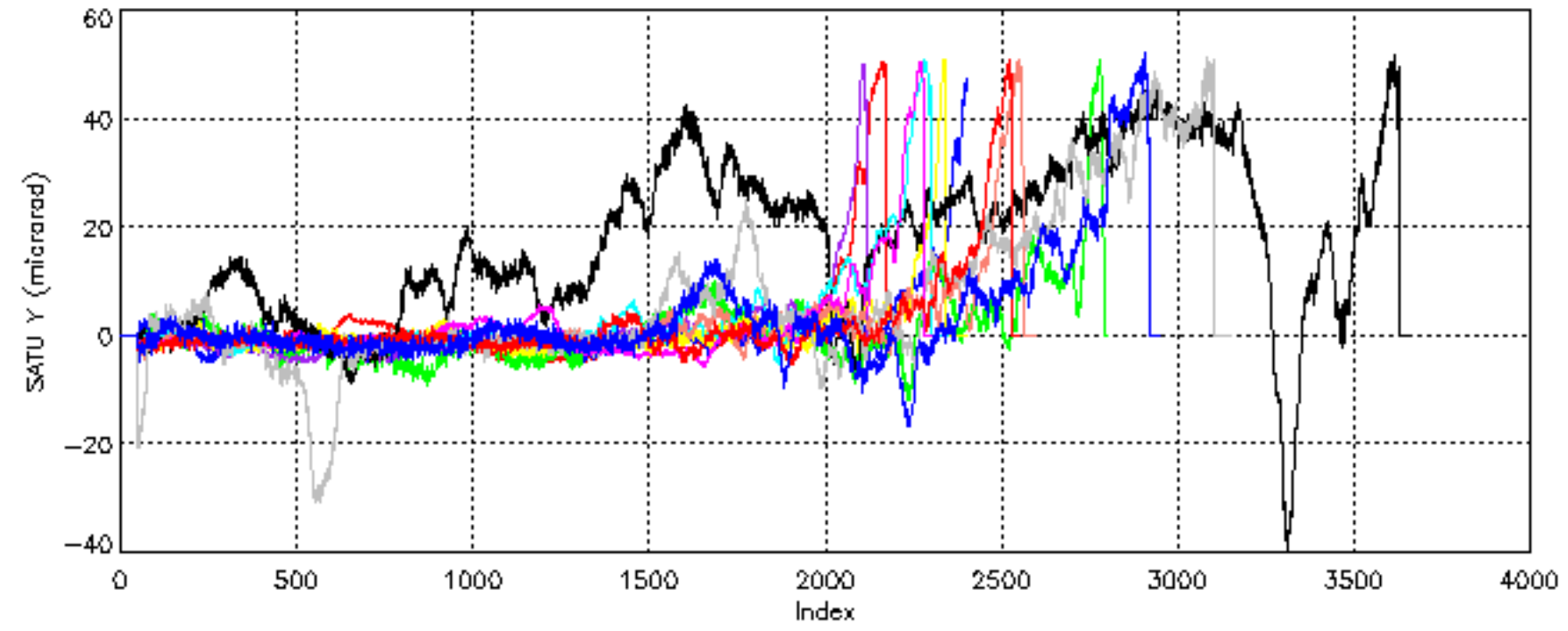
Percentage of saturation errors per profile

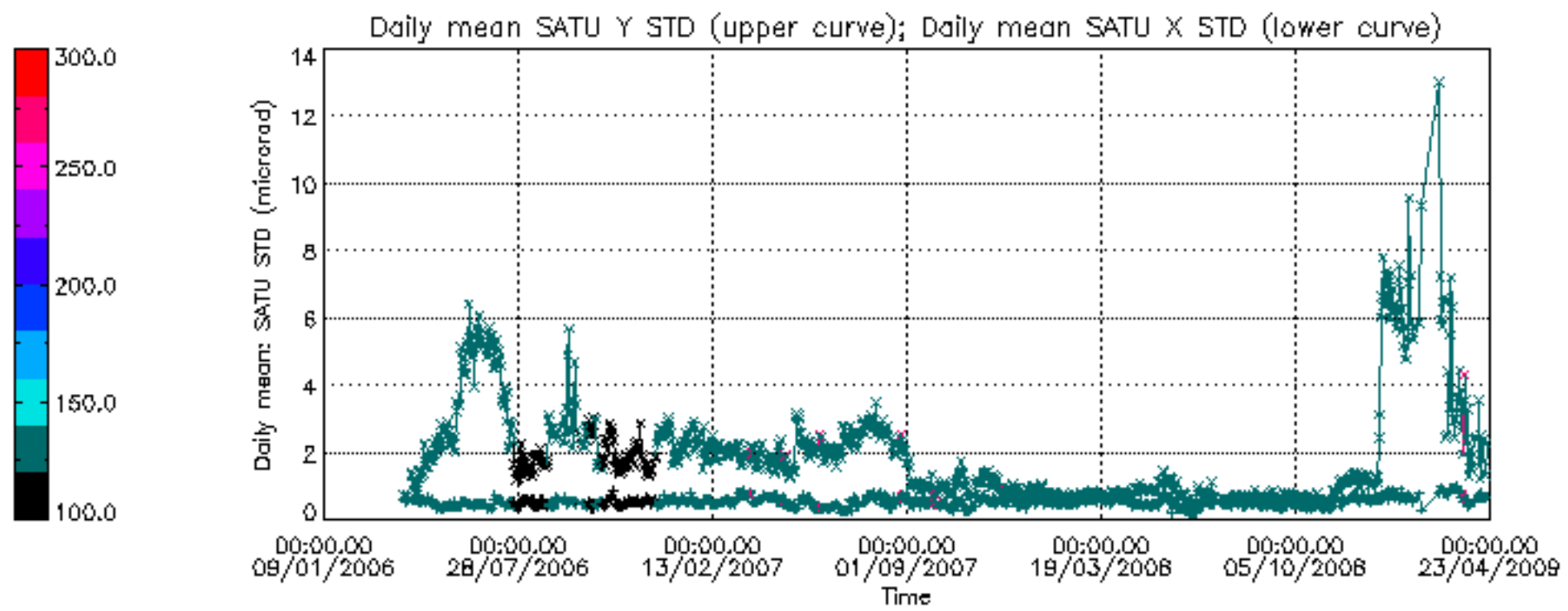


Tangent altitude at which the star is lost









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2; 1688.1; 01-APR-2009 20:03:51; Dark ; 67.0; 15; 67Alp Vir ; 0.98; 28000;occ; 134; 0;37056
3; 1882.0; 01-APR-2009 20:07:05; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;37056
4; 2156.2; 01-APR-2009 20:11:39; Bright; 48.0; 138; 47Eps Vir ; 2.83; 4700;occ; 96; 0;37056
5; 2671.2; 01-APR-2009 20:20:14; Bright; 45.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 90; 0;37056
6; 2954.1; 01-APR-2009 20:24:57; Bright; 43.5; 32; 77Eps UMa ; 1.76; 11000;occ; 87; 0;37056
7; 3501.5; 01-APR-2009 20:34:04; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;37056
8; 4197.6; 01-APR-2009 20:45:40; Bright; 44.0; 144; 18Del Cyg ; 2.86; 11000;occ; 88; 0;37056
9; 4313.1; 01-APR-2009 20:47:36; Bright; 44.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 88; 0;37056
10; 4435.9; 01-APR-2009 20:49:39; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;37056
11; 5051.5; 01-APR-2009 20:59:54; Dark ; 23.0; 11; 53Alp Aql ; 0.76; 8000;occ; 46; 0;37056

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2; -745.7; 01-APR-2009 21:03:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37056
3; -259.8; 01-APR-2009 21:11:59; Dark ; 57.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 114; 0;37056
4; -127.9; 01-APR-2009 21:14:11; Dark ; 57.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 114; 0;37056
5; 81.9; 01-APR-2009 21:17:40; Dark ; 70.0; 116; 19Del Sgr ; 2.70; 4100;occ; 140; 0;37057
6; 339.0; 01-APR-2009 21:21:58; Dark ; 56.5; 25; 35Lam Sco ; 1.62; 28000;occ; 113; 0;37057
7; 798.8; 01-APR-2009 21:29:37; Dark ; 49.0; 131; Gam Lup ; 2.80; 26000;occ; 98; 0;37057
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
10; 1433.1; 01-APR-2009 21:40:12; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;37057
11; 1688.1; 01-APR-2009 21:44:27; Dark ; 66.0; 15; 67Alp Vir ; 0.98; 28000;occ; 132; 0;37057
12; 1881.8; 01-APR-2009 21:47:40; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;37057
13; 2155.9; 01-APR-2009 21:52:14; Bright; 47.5; 138; 47Eps Vir ; 2.83; 4700;occ; 95; 0;37057
14; 2670.9; 01-APR-2009 22:00:49; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37057
15; 2953.6; 01-APR-2009 22:05:32; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;37057
16; 3500.7; 01-APR-2009 22:14:39; Bright; 62.5; 119; 14Eta Dra ; 2.73; 4700;occ; 125; 0;37057
17; 4197.4; 01-APR-2009 22:26:16; Bright; 68.0; 144; 18Del Cyg ; 2.86; 11000;occ; 136; 0;37057
18; 4312.9; 01-APR-2009 22:28:11; Bright; 44.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 89; 0;37057
19; 4435.9; 01-APR-2009 22:30:14; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;37057
20; 5052.5; 01-APR-2009 22:40:31; Dark ; 70.5; 11; 53Alp Aql ; 0.76; 8000;occ; 141; 0;37057
21; 5291.1; 01-APR-2009 22:44:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37057

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2; -126.4; 01-APR-2009 22:54:48; Dark ; 54.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 109; 0;37057
3; 83.4; 01-APR-2009 22:58:18; Dark ; 61.5; 116; 19Del Sgr ; 2.70; 4100;occ; 123; 0;37058
4; 340.5; 01-APR-2009 23:02:35; Dark ; 58.5; 25; 35Lam Sco ; 1.62; 28000;occ; 117; 0;37058
5; 799.7; 01-APR-2009 23:10:14; Dark ; 52.0; 131; Gam Lup ; 2.80; 26000;occ; 104; 0;37058
6; 945.1; 01-APR-2009 23:12:40; Dark ; 48.5; 81; Eta Cen ; 2.36; 28000;occ; 97; 0;37058
7; 1107.5; 01-APR-2009 23:15:22; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;37058
8; 1433.4; 01-APR-2009 23:20:48; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;37058
9; 1688.2; 01-APR-2009 23:25:03; Dark ; 70.0; 15; 67Alp Vir ; 0.98; 28000;occ; 140; 0;37058
10; 1881.6; 01-APR-2009 23:28:16; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;37058
11; 2155.3; 01-APR-2009 23:32:50; Bright; 47.5; 138; 47Eps Vir ; 2.83; 4700;occ; 95; 0;37058
12; 2670.5; 01-APR-2009 23:41:25; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37058
13; 2953.3; 01-APR-2009 23:46:08; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;37058
14; 3500.1; 01-APR-2009 23:55:14; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;37058
15; 4197.4; 02-APR-2009 00:06:52; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;37058
16; 4312.8; 02-APR-2009 00:08:47; Bright; 43.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 87; 0;37058
17; 4436.1; 02-APR-2009 00:10:50; Bright; 61.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 122; 0;37058
18; 5053.0; 02-APR-2009 00:21:07; Dark ; 68.0; 11; 53Alp Aql ; 0.76; 8000;occ; 136; 0;37058
19; 5292.0; 02-APR-2009 00:25:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37058

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1; -1600.1; 01-APR-2009 14:07:15; Bright; 6.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 13; 0;37052

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1; 1688.5; 01-APR-2009 15:02:03; Dark ; 70.0; 15; 67Alp Vir ; 0.98; 28000;occ; 140; 0;37053
2; 1881.9; 01-APR-2009 15:05:17; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;37053
3; 7141.4; 01-APR-2009 16:32:56; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;37053

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1; 1432.5; 01-APR-2009 16:38:23; Dark ; 51.0; 169; 46Gam Hya ; 2.99; 4700;occ; 102; 0;37054
2; 2954.7; 01-APR-2009 17:03:45; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;37054
3; 4312.8; 01-APR-2009 17:26:23; Bright; 43.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 87; 0;37054
4; 4435.5; 01-APR-2009 17:28:26; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;37054

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1; -257.2; 02-APR-2009 00:33:13; Dark ; 60.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 121; 0;37058
2; -125.0; 02-APR-2009 00:35:25; Dark ; 56.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 112; 0;37058
3; 341.6; 02-APR-2009 00:43:12; Dark ; 57.5; 25; 35Lam Sco ; 1.62; 28000;occ; 115; 0;37059
4; 800.4; 02-APR-2009 00:50:51; Dark ; 51.5; 131; Gam Lup ; 2.80; 26000;occ; 103; 0;37059
5; 945.7; 02-APR-2009 00:53:16; Dark ; 48.0; 81; Eta Cen ; 2.36; 28000;occ; 96; 0;37059
6; 1107.7; 02-APR-2009 00:55:58; Dark ; 52.0; 54; 5The Cen ; 2.06; 4500;occ; 104; 0;37059
7; 1433.6; 02-APR-2009 01:01:24; Dark ; 51.0; 169; 46Gam Hya ; 2.99; 4700;occ; 102; 0;37059
8; 1688.1; 02-APR-2009 01:05:38; Dark ; 70.0; 15; 67Alp Vir ; 0.98; 28000;occ; 140; 0;37059
9; 1881.4; 02-APR-2009 01:08:52; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;37059
10; 2154.8; 02-APR-2009 01:13:25; Bright; 49.0; 138; 47Eps Vir ; 2.83; 4700;occ; 98; 0;37059
11; 2669.6; 02-APR-2009 01:22:00; Bright; 44.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 88; 0;37059
12; 2952.7; 02-APR-2009 01:26:43; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;37059
13; 3499.2; 02-APR-2009 01:35:49; Bright; 48.0; 119; 14Eta Dra ; 2.73; 4700;occ; 96; 0;37059
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
17; 5054.0; 02-APR-2009 02:01:44; Dark ; 65.5; 11; 53Alp Aql ; 0.76; 8000;occ; 131; 0;37059
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2; -742.9; 02-APR-2009 02:05:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37059
3; -255.9; 02-APR-2009 02:13:50; Dark ; 57.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 115; 0;37059
4; -123.9; 02-APR-2009 02:16:02; Dark ; 56.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 112; 0;37059
5; 89.5; 02-APR-2009 02:19:36; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;37060
6; 343.0; 02-APR-2009 02:23:49; Dark ; 59.0; 25; 35Lam Sco ; 1.62; 28000;occ; 118; 0;37060
7; 801.5; 02-APR-2009 02:31:28; Dark ; 52.5; 131; Gam Lup ; 2.80; 26000;occ; 105; 0;37060
8; 946.7; 02-APR-2009 02:33:53; Dark ; 46.5; 81; Eta Cen ; 2.36; 28000;occ; 93; 0;37060
9; 1108.6; 02-APR-2009 02:36:35; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;37060
10; 1433.7; 02-APR-2009 02:42:00; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;37060
11; 1688.2; 02-APR-2009 02:46:14; Dark ; 66.5; 15; 67Alp Vir ; 0.98; 28000;occ; 133; 0;37060
12; 1881.5; 02-APR-2009 02:49:28; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;37060
13; 2154.6; 02-APR-2009 02:54:01; Bright; 48.0; 138; 47Eps Vir ; 2.83; 4700;occ; 96; 0;37060
14; 2669.4; 02-APR-2009 03:02:36; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37060
15; 2952.7; 02-APR-2009 03:07:19; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;37060
16; 3498.8; 02-APR-2009 03:16:25; Bright; 47.0; 119; 14Eta Dra ; 2.73; 4700;occ; 94; 0;37060
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2; -1723.0; 02-APR-2009 03:29:59; Bright; 45.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 91; 0;37060
3; -1599.6; 02-APR-2009 03:32:02; Bright; 44.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 88; 0;37060
4; -981.1; 02-APR-2009 03:42:21; Dark ; 69.0; 11; 53Alp Aql ; 0.76; 8000;occ; 138; 0;37060
5; -741.9; 02-APR-2009 03:46:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37060
6; -253.8; 02-APR-2009 03:54:28; Dark ; 48.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 96; 0;37060
7; -122.3; 02-APR-2009 03:56:40; Dark ; 55.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 110; 0;37060
8; 91.1; 02-APR-2009 04:00:13; Dark ; 56.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 113; 0;37061
9; 344.5; 02-APR-2009 04:04:27; Dark ; 64.5; 25; 35Lam Sco ; 1.62; 28000;occ; 129; 0;37061
10; 801.9; 02-APR-2009 04:12:04; Dark ; 50.0; 131; Gam Lup ; 2.80; 26000;occ; 100; 0;37061
11; 947.2; 02-APR-2009 04:14:29; Dark ; 50.0; 81; Eta Cen ; 2.36; 28000;occ; 100; 0;37061
12; 1109.2; 02-APR-2009 04:17:11; Dark ; 48.0; 54; 5The Cen ; 2.06; 4500;occ; 96; 0;37061
13; 1434.3; 02-APR-2009 04:22:36; Dark ; 49.0; 169; 46Gam Hya ; 2.99; 4700;occ; 98; 0;37061
14; 1688.2; 02-APR-2009 04:26:50; Dark ; 60.5; 15; 67Alp Vir ; 0.98; 28000;occ; 121; 0;37061
15; 1881.7; 02-APR-2009 04:30:04; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;37061
16; 2154.3; 02-APR-2009 04:34:36; Bright; 58.0; 138; 47Eps Vir ; 2.83; 4700;occ; 116; 0;37061
17; 2668.8; 02-APR-2009 04:43:11; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;37061
18; 2952.1; 02-APR-2009 04:47:54; Bright; 59.0; 32; 77Eps UMa ; 1.76; 11000;occ; 118; 0;37061
19; 3498.1; 02-APR-2009 04:57:00; Bright; 70.5; 119; 14Eta Dra ; 2.73; 4700;occ; 141; 0;37061
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2; -1722.9; 02-APR-2009 05:10:35; Bright; 44.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 88; 0;37061
3; -1599.2; 02-APR-2009 05:12:39; Bright; 47.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 95; 0;37061
4; -980.2; 02-APR-2009 05:22:58; Dark ; 66.5; 11; 53Alp Aql ; 0.76; 8000;occ; 133; 0;37061
5; -740.9; 02-APR-2009 05:26:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37061
6; -251.9; 02-APR-2009 05:35:06; Dark ; 56.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 112; 0;37061
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 6; 2641.4; 05-APR-2009 19:53:51; Bright; 62.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 124; 0;37113
 7; 2931.7; 05-APR-2009 19:58:42; Bright; 46.5; 39; 85Eta UMa ; 1.85; 24000;occ; 93; 0;37113
 8; 3460.4; 05-APR-2009 20:07:30; Bright; 71.0; 119; 14Eta Dra ; 2.73; 4700;occ; 142; 0;37113
 9; 4210.5; 05-APR-2009 20:20:00; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;37113
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 4; 2125.4; 07-APR-2009 20:22:37; Bright; 44.0; 138; 47Eps Vir ; 2.83; 4700;occ; 88; 0;37142
 5; 2628.3; 07-APR-2009 20:31:00; Bright; 39.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 79; 0;37142
 6; 2912.6; 07-APR-2009 20:35:44; Bright; 48.0; 39; 85Eta UMa ; 1.85; 24000;occ; 96; 0;37142
 7; 3439.7; 07-APR-2009 20:44:31; Bright; 56.5; 119; 14Eta Dra ; 2.73; 4700;occ; 113; 0;37142
 8; 4181.6; 07-APR-2009 20:56:53; Bright; 52.5; 144; 18Del Cyg ; 2.86; 11000;occ; 105; 0;37142
 9; 4311.2; 07-APR-2009 20:59:03; Bright; 43.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 87; 0;37142
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 6; 1148.0; 07-APR-2009 23:27:31; Dark ; 50.0; 54; 5The Cen ; 2.06; 4500;occ; 100; 0;37144
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