

GOMOS Daily Report 03-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	06APR2009 05:38:59
Data source version	GOMOS/5.00
Start time of products	03APR2009 00:07:40
Stop time of products	03APR2009 05:13:46
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)

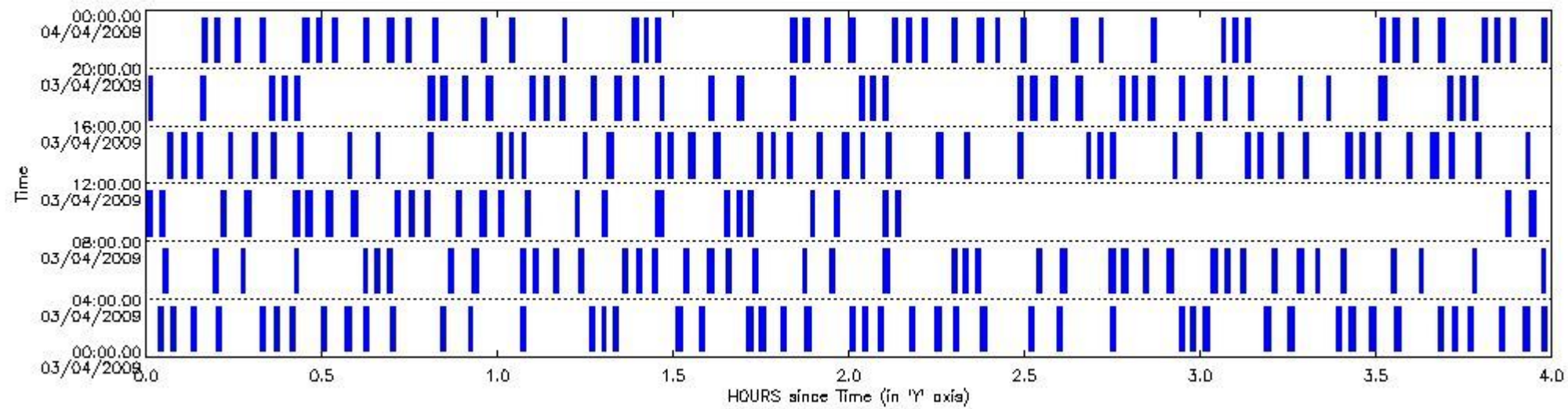
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

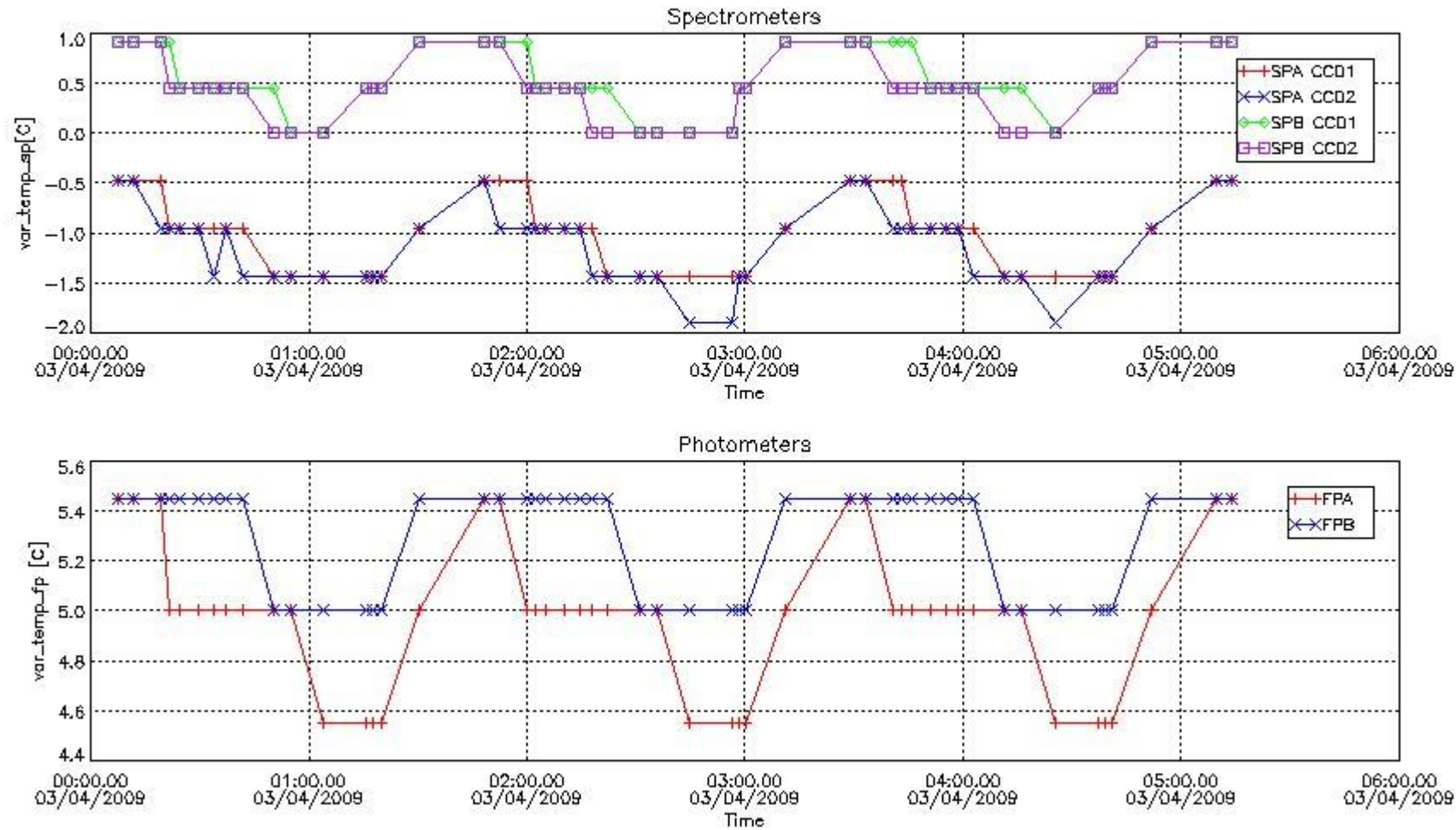
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090403_000740_000000542077_00446_37073_9612.N1	03-APR-2009 00:07:40	Dark	54.000	38	20Eps Sgr	1.8360	11000.	108	37073	No
2	GOM_TRA_1PNPDE20090403_001154_000000592077_00446_37073_9613.N1	03-APR-2009 00:11:54	Dark	59.000	25	35Lam Sco	1.6200	28000.	118	37073	No
3	GOM_TRA_1PNPDE20090403_001926_000000522077_00446_37073_9614.N1	03-APR-2009 00:19:26	Straylight	51.500	131	Gam Lup	2.8000	26000.	103	37073	No
4	GOM_TRA_1PNPDE20090403_002148_000000472077_00446_37073_9615.N1	03-APR-2009 00:21:48	Straylight	46.500	81	Eta Cen	2.3560	28000.	93	37073	No
5	GOM_TRA_1PNPDE20090403_002428_000000512077_00446_37073_9616.N1	03-APR-2009 00:24:28	Straylight	51.000	54	5The Cen	2.0550	4500.0	102	37073	No
6	GOM_TRA_1PNPDE20090403_002950_000000492077_00446_37073_9617.N1	03-APR-2009 00:29:50	Twilight_stray	48.500	169	46Gam Hya	2.9910	4700.0	97	37073	No
7	GOM_TRA_1PNPDE20090403_003401_000000632077_00446_37073_9618.N1	03-APR-2009 00:34:01	Bright	63.000	15	67Alp Vir	0.97600	28000.	126	37073	No
8	GOM_TRA_1PNPDE20090403_003713_000000432077_00446_37073_9619.N1	03-APR-2009 00:37:13	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	37073	No
9	GOM_TRA_1PNPDE20090403_004142_000000482077_00446_37073_9620.N1	03-APR-2009 00:41:42	Bright	47.500	138	47Eps Vir	2.8280	4700.0	95	37073	No
10	GOM_TRA_1PNPDE20090403_005015_000000432077_00446_37073_9621.N1	03-APR-2009 00:50:15	Bright	43.000	152	12Alp2CVn	2.8900	11000.	86	37073	No
11	GOM_TRA_1PNPDE20090403_005500_000000382077_00446_37073_9622.N1	03-APR-2009 00:55:00	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	37073	No
12	GOM_TRA_1PNPDE20090403_010402_000000472077_00446_37073_9623.N1	03-APR-2009 01:04:02	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	37073	No

13	GOM_TRA_1PNPDE20090403_011548_000000452077_00446_37073_9624.N1	03-APR-2009 01:15:48	Bright	45.000	144	18Del Cyg	2.8600	11000.	90	37073	No
14	GOM_TRA_1PNPDE20090403_011746_000000452077_00446_37073_9625.N1	03-APR-2009 01:17:46	Bright	44.500	66	37Gam Cyg	2.2080	5900.0	89	37073	No
15	GOM_TRA_1PNPDE20090403_011951_000000462077_00446_37073_9626.N1	03-APR-2009 01:19:51	Bright	46.000	92	53Eps Cyg	2.5000	4500.0	92	37073	No
16	GOM_TRA_1PNPDE20090403_013019_000000642077_00446_37073_9627.N1	03-APR-2009 01:30:19	Dark	63.500	11	53Alp Aql	0.76500	8000.0	127	37073	No
17	GOM_TRA_1PNPDE20090403_014817_000000572077_00447_37074_9762.N1	03-APR-2009 01:48:17	Dark	57.000	38	20Eps Sgr	1.8360	11000.	114	37074	No
18	GOM_TRA_1PNPDE20090403_015231_000000652077_00447_37074_9763.N1	03-APR-2009 01:52:31	Dark	65.000	25	35Lam Sco	1.6200	28000.	130	37074	No
19	GOM_TRA_1PNPDE20090403_020003_000000522077_00447_37074_9764.N1	03-APR-2009 02:00:03	Straylight	52.000	131	Gam Lup	2.8000	26000.	104	37074	No
20	GOM_TRA_1PNPDE20090403_020224_000000482077_00447_37074_9765.N1	03-APR-2009 02:02:24	Straylight	47.500	81	Eta Cen	2.3560	28000.	95	37074	No
21	GOM_TRA_1PNPDE20090403_020504_000000462077_00447_37074_9766.N1	03-APR-2009 02:05:04	Straylight	46.000	54	5The Cen	2.0550	4500.0	92	37074	No
22	GOM_TRA_1PNPDE20090403_021026_000000482077_00447_37074_9767.N1	03-APR-2009 02:10:26	Tw_i_and_stray	48.000	169	46Gam Hya	2.9910	4700.0	96	37074	No
23	GOM_TRA_1PNPDE20090403_021437_000000652077_00447_37074_9768.N1	03-APR-2009 02:14:37	Bright	64.500	15	67Alp Vir	0.97600	28000.	129	37074	No
24	GOM_TRA_1PNPDE20090403_021749_000000442077_00447_37074_9769.N1	03-APR-2009 02:17:49	Bright	43.500	121	29Gam Vir	2.7400	7200.0	87	37074	No
25	GOM_TRA_1PNPDE20090403_022218_000000672077_00447_37074_9770.N1	03-APR-2009 02:22:18	Bright	67.000	138	47Eps Vir	2.8280	4700.0	134	37074	No
26	GOM_TRA_1PNPDE20090403_023050_000000432077_00447_37074_9771.N1	03-APR-2009 02:30:50	Bright	42.500	152	12Alp2CVn	2.8900	11000.	85	37074	No
27	GOM_TRA_1PNPDE20090403_023536_000000412077_00447_37074_9772.N1	03-APR-2009 02:35:36	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	37074	No
28	GOM_TRA_1PNPDE20090403_024438_000000472077_00447_37074_9773.N1	03-APR-2009 02:44:38	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	37074	No
29	GOM_TRA_1PNPDE20090403_025624_000000472077_00447_37074_9919.N1	03-APR-2009 02:56:24	Bright	46.500	144	18Del Cyg	2.8600	11000.	93	37074	No
30	GOM_TRA_1PNPDE20090403_025822_000000492077_00447_37074_9920.N1	03-APR-2009 02:58:22	Bright	48.500	66	37Gam Cyg	2.2080	5900.0	97	37074	No
31	GOM_TRA_1PNPDE20090403_030027_000000612077_00447_37074_9921.N1	03-APR-2009 03:00:27	Bright	61.000	92	53Eps Cyg	2.5000	4500.0	122	37074	No
32	GOM_TRA_1PNPDE20090403_031056_000000572077_00447_37074_9922.N1	03-APR-2009 03:10:56	Dark	57.000	11	53Alp Aql	0.76500	8000.0	114	37074	No
33	GOM_TRA_1PNPDE20090403_032855_000000592077_00448_37075_9925.N1	03-APR-2009 03:28:55	Dark	59.000	38	20Eps Sgr	1.8360	11000.	118	37075	No
34	GOM_TRA_1PNPDE20090403_033309_000000592077_00448_37075_9926.N1	03-APR-2009 03:33:09	Dark	58.500	25	35Lam Sco	1.6200	28000.	117	37075	No
35	GOM_TRA_1PNPDE20090403_034039_000000502077_00448_37075_9927.N1	03-APR-2009 03:40:39	Straylight	49.500	131	Gam Lup	2.8000	26000.	99	37075	No
36	GOM_TRA_1PNPDE20090403_034300_000000492077_00448_37075_9928.N1	03-APR-2009 03:43:00	Straylight	49.000	81	Eta Cen	2.3560	28000.	98	37075	No
37	GOM_TRA_1PNPDE20090403_034541_000000542077_00448_37075_9929.N1	03-APR-2009 03:45:41	Straylight	54.000	54	5The Cen	2.0550	4500.0	108	37075	No
38	GOM_TRA_1PNPDE20090403_035102_000000512077_00448_37075_9930.N1	03-APR-2009 03:51:02	Tw_i_and_stray	50.500	169	46Gam Hya	2.9910	4700.0	101	37075	No
39	GOM_TRA_1PNPDE20090403_035513_000000632077_00448_37075_9931.N1	03-APR-2009 03:55:13	Bright	62.500	15	67Alp Vir	0.97600	28000.	125	37075	No
40	GOM_TRA_1PNPDE20090403_035825_000000432077_00448_37075_9932.N1	03-APR-2009 03:58:25	Bright	42.500	121	29Gam Vir	2.7400	7200.0	85	37075	No
41	GOM_TRA_1PNPDE20090403_040253_000000472077_00448_37075_9933.N1	03-APR-2009 04:02:53	Bright	47.000	138	47Eps Vir	2.8280	4700.0	94	37075	No
42	GOM_TRA_1PNPDE20090403_041126_000000422077_00448_37075_9934.N1	03-APR-2009 04:11:26	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	37075	No
43	GOM_TRA_1PNPDE20090403_041611_000000412077_00448_37075_9935.N1	03-APR-2009 04:16:11	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	37075	No
44	GOM_TRA_1PNPDE20090403_042513_000000472077_00448_37075_9936.N1	03-APR-2009 04:25:13	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	37075	No
45	GOM_TRA_1PNPDE20090403_043659_000000462077_00448_37075_0105.N1	03-APR-2009 04:36:59	Bright	45.500	144	18Del Cyg	2.8600	11000.	91	37075	No
46	GOM_TRA_1PNPDE20090403_043858_000000462077_00448_37075_0106.N1	03-APR-2009 04:38:58	Bright	46.000	66	37Gam Cyg	2.2080	5900.0	92	37075	No
47	GOM_TRA_1PNPDE20090403_044103_000000532077_00448_37075_0107.N1	03-APR-2009 04:41:03	Bright	53.000	92	53Eps Cyg	2.5000	4500.0	106	37075	No
48	GOM_TRA_1PNPDE20090403_045133_000000572077_00448_37075_0108.N1	03-APR-2009 04:51:33	Dark	57.000	11	53Alp Aql	0.76500	8000.0	114	37075	No
49	GOM_TRA_1PNPDE20090403_050932_000000552077_00449_37076_0111.N1	03-APR-2009 05:09:32	Dark	54.500	38	20Eps Sgr	1.8360	11000.	109	37076	No
50	GOM_TRA_1PNPDE20090403_051346_000000562077_00449_37076_0112.N1	03-APR-2009 05:13:46	Dark	56.000	25	35Lam Sco	1.6200	28000.	112	37076	No

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



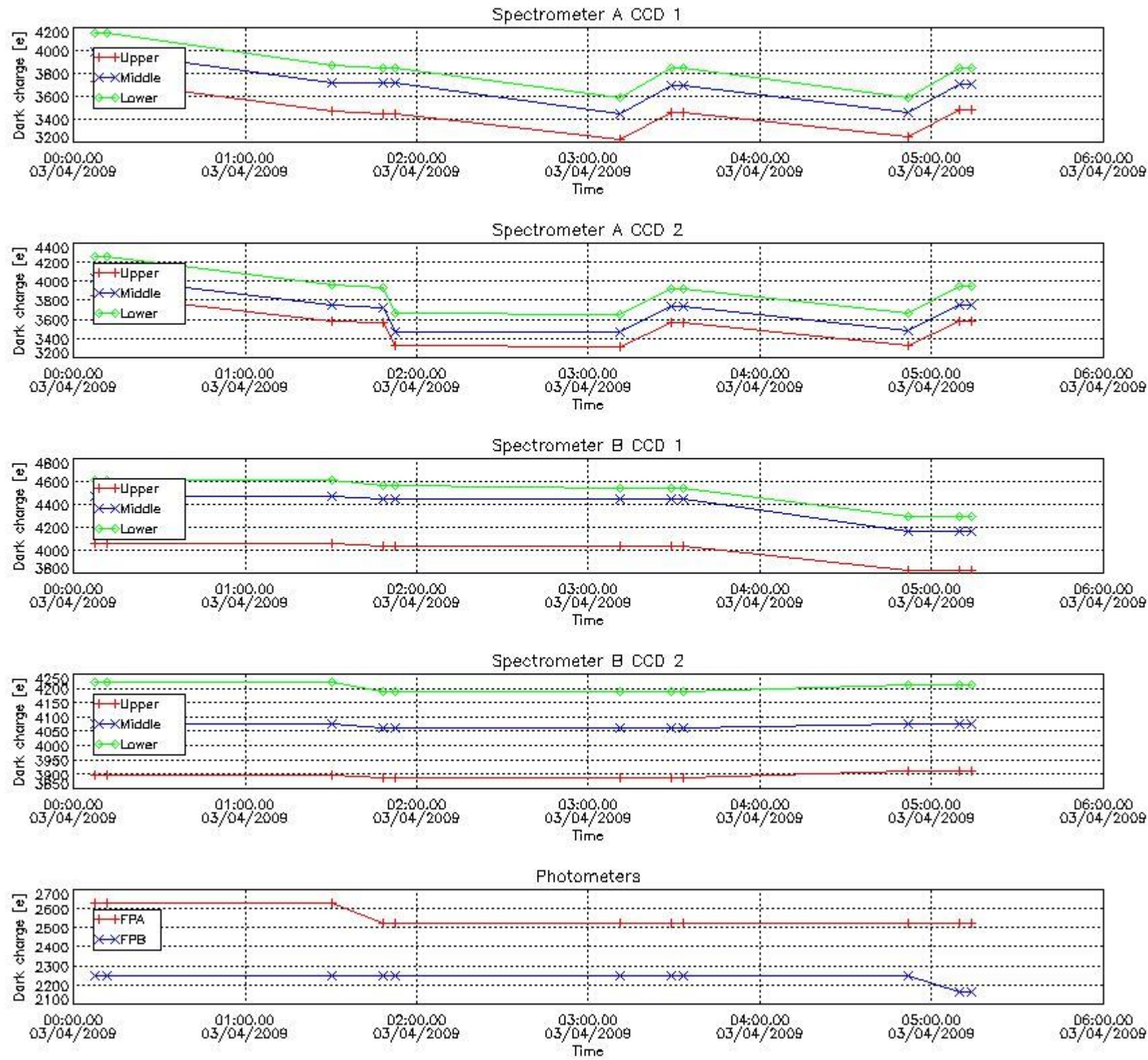
4. Overview of dark signal processing per product

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



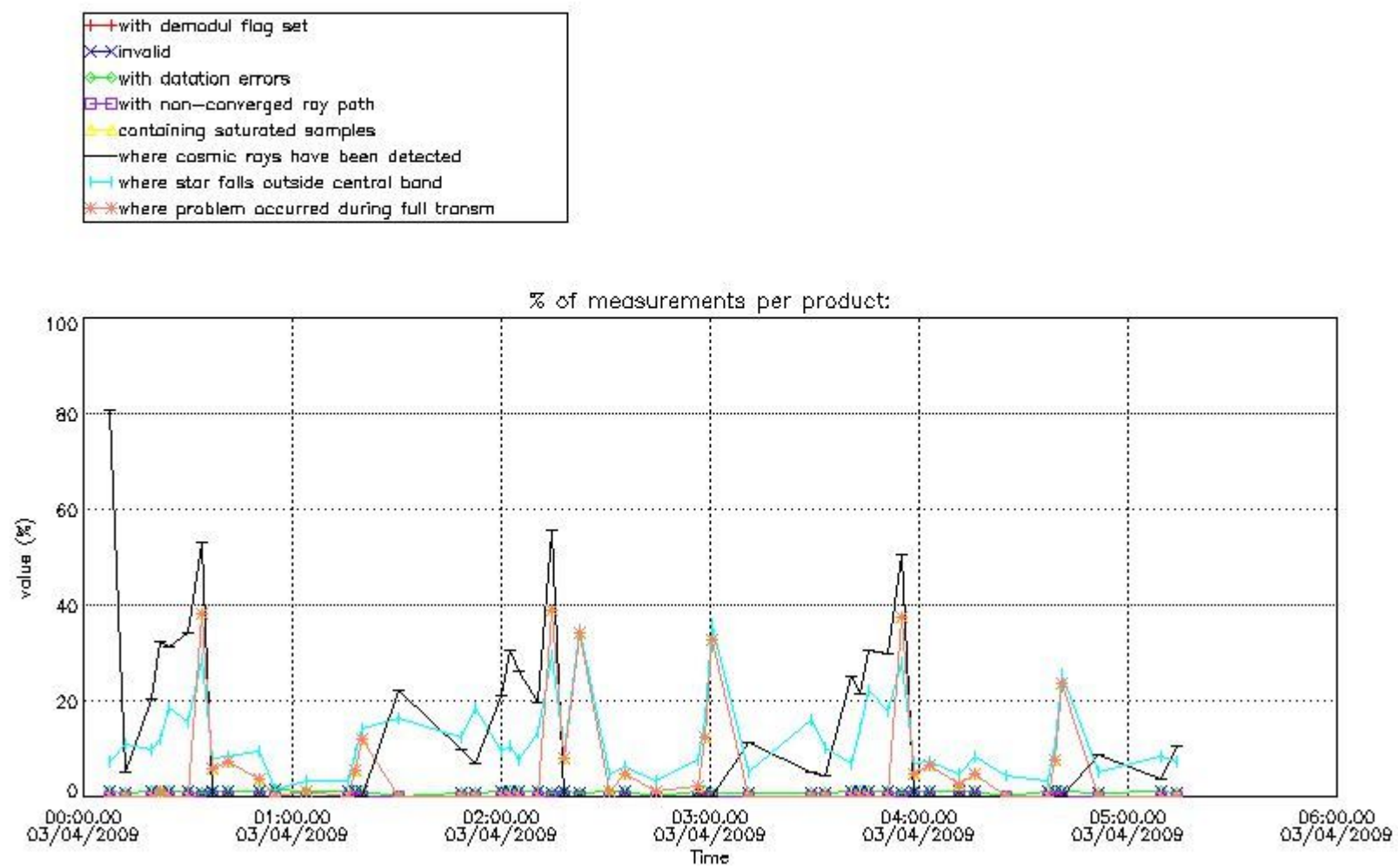
5. Demodulation flag and quality information monitoring

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.

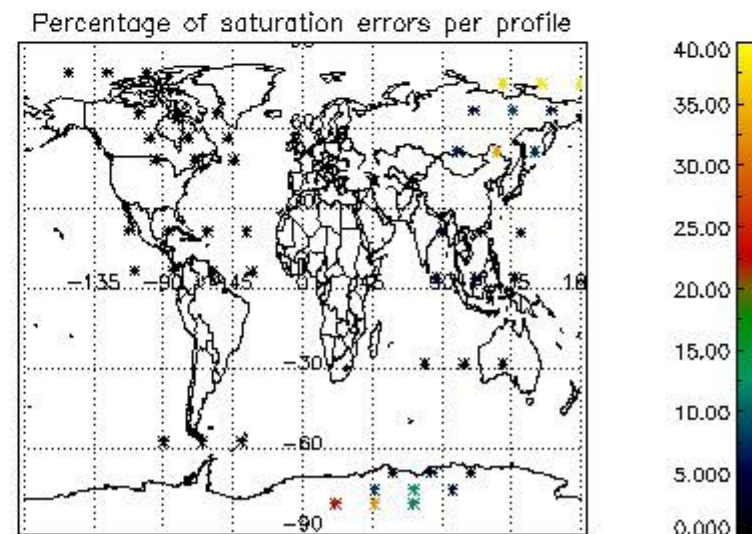
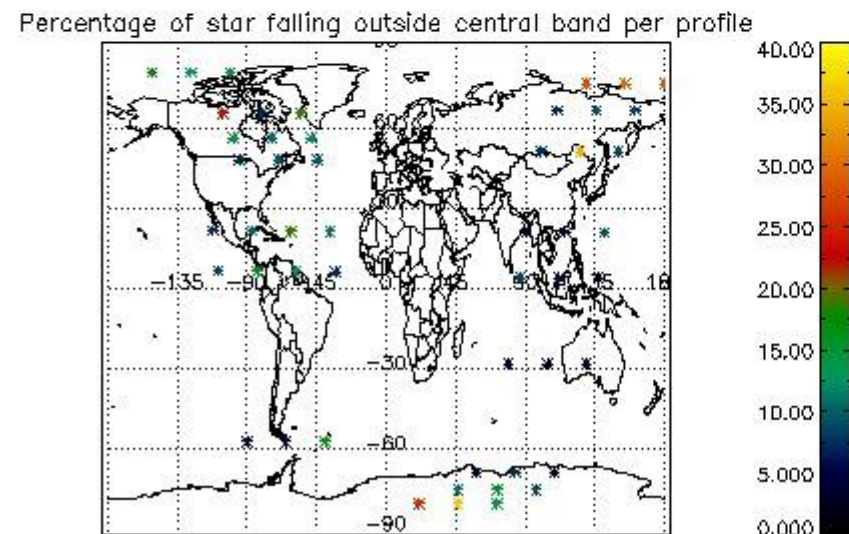
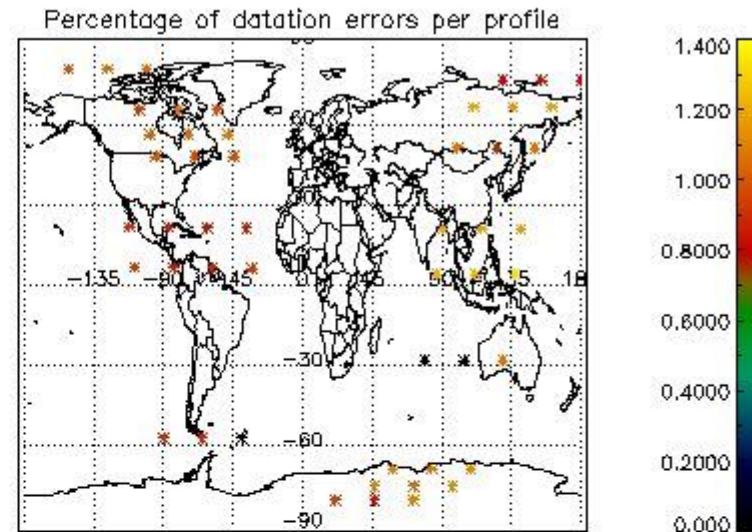
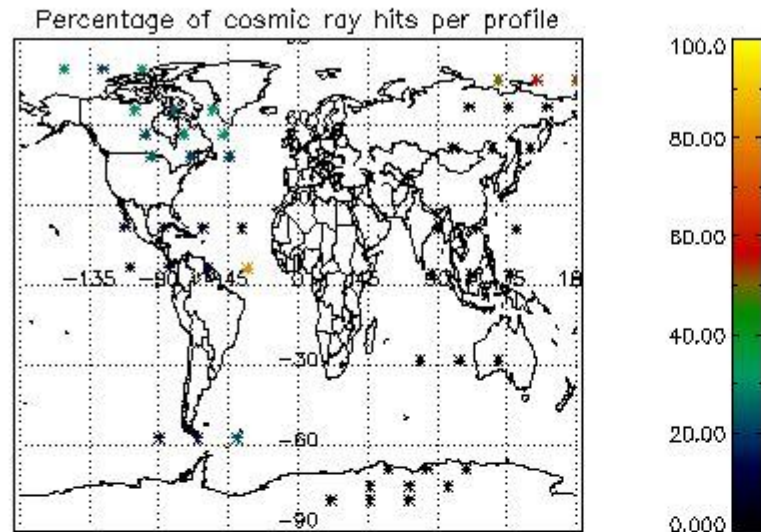
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.0000 %
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)



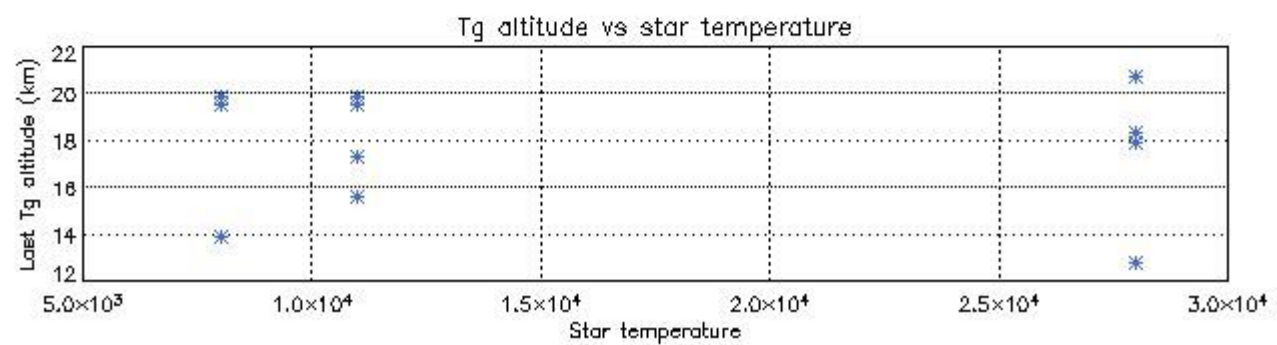
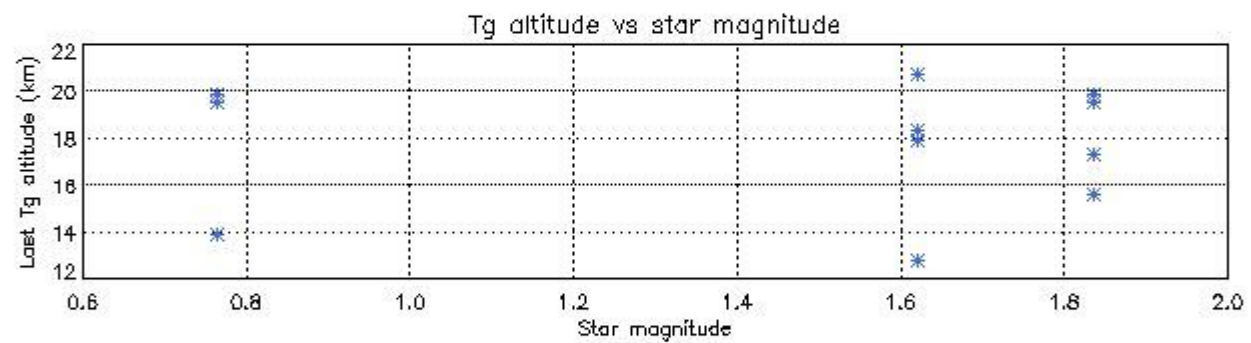
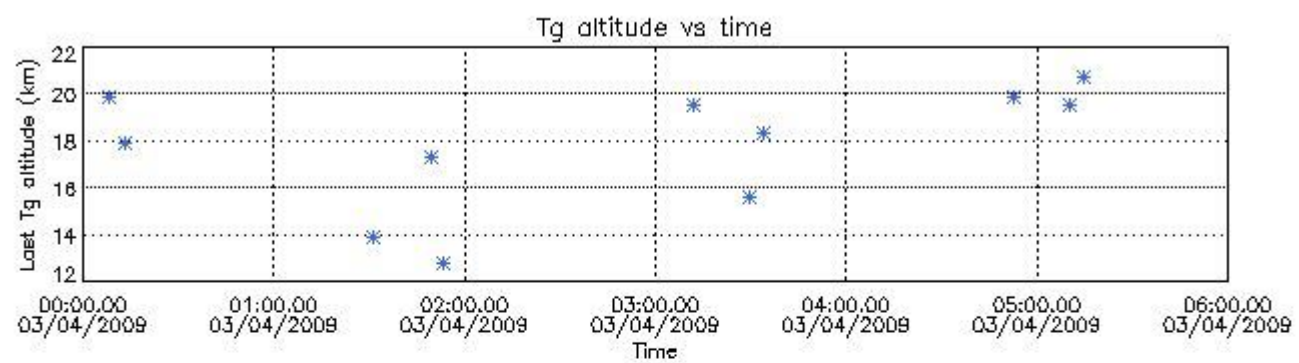
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.752	17.579	NaN
St. deviation:	2.6291	6.5243	NaN
Maximum:	20.684	26.381	NaN
Minimum:	12.744	4.1596	NaN
Number of data:	11.000	27.000	NaN

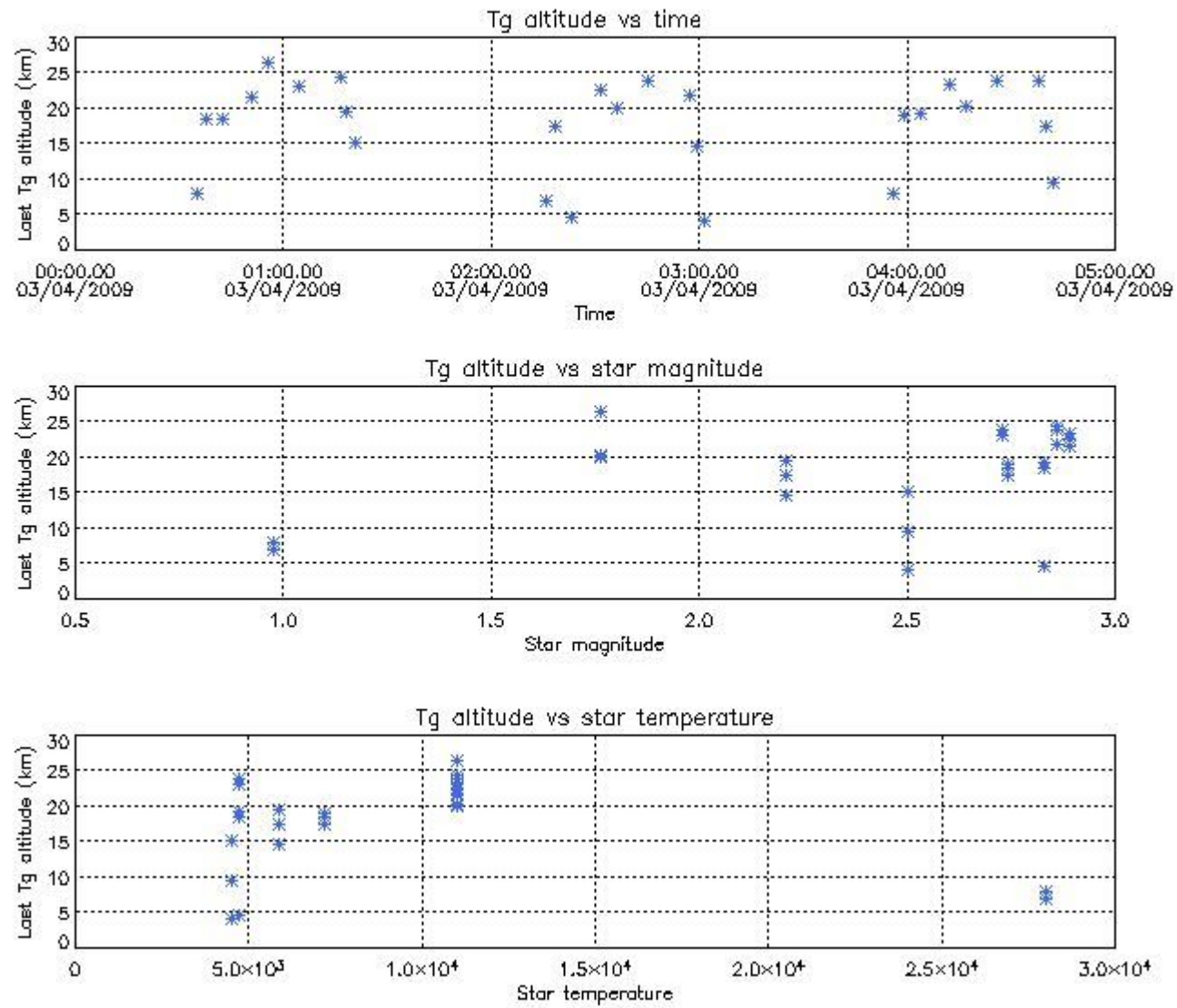
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

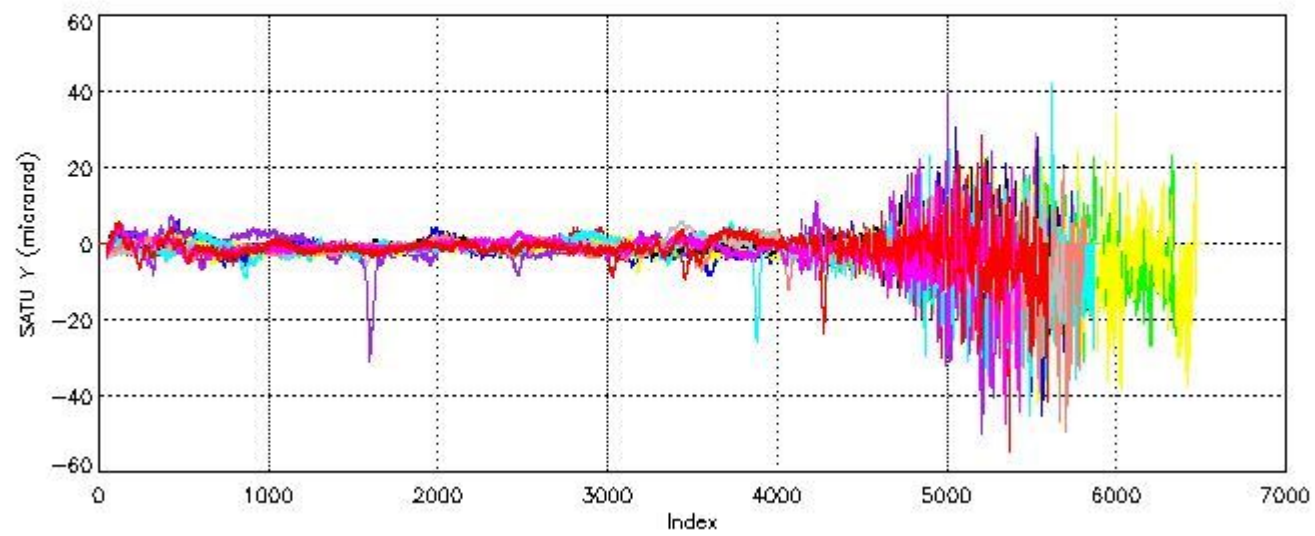
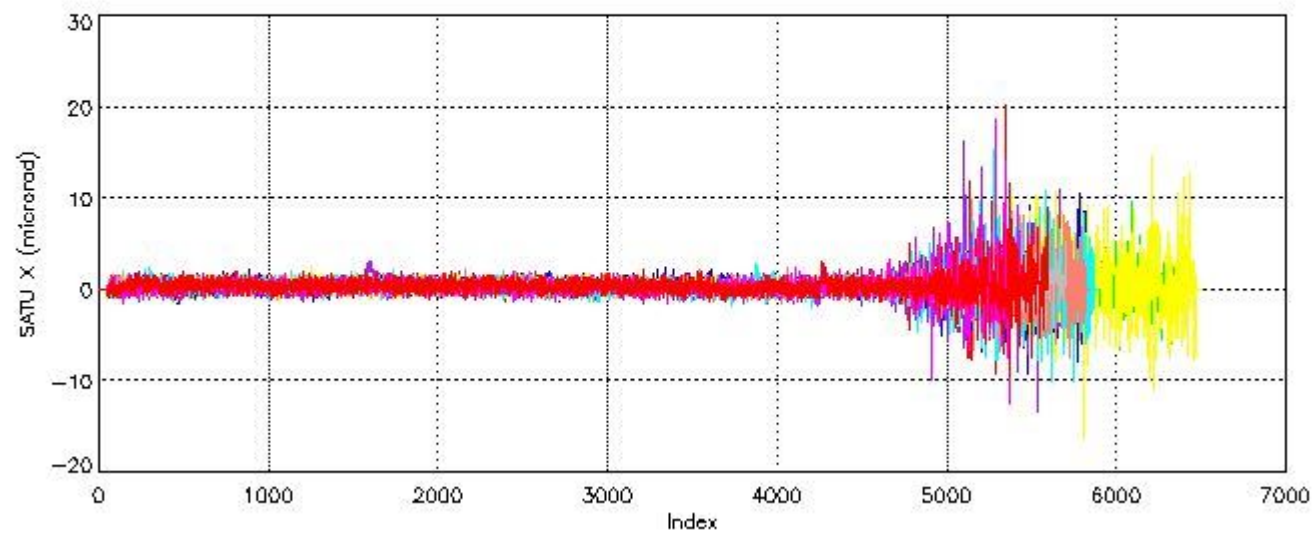


7. Star Acquisition and Tracking Unit (SATU)

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:	0.34699	-1.0173	0.30112	-1.1679
St. deviation:	0.42380	1.5339	0.82963	1.6178
Maximum:	2.3000	7.4000	6.8000	7.3000
Minimum:	-1.6000	-8.8000	-7.1000	-9.4000

Number of data:	14850.	14850.	27850.	27850.
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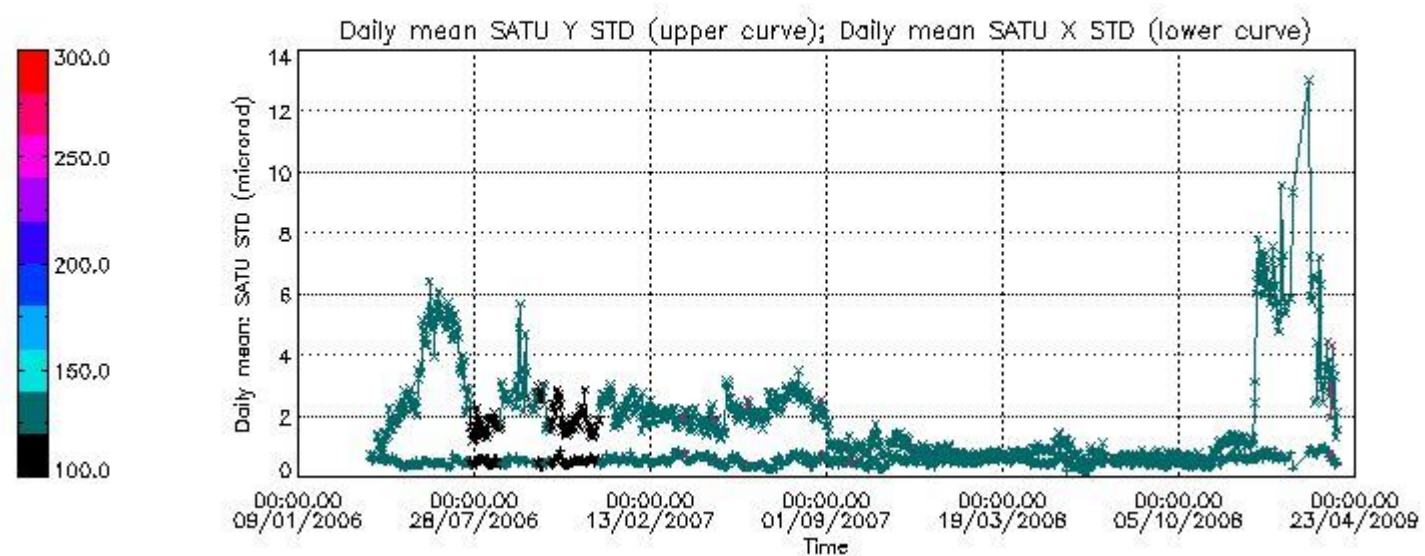
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

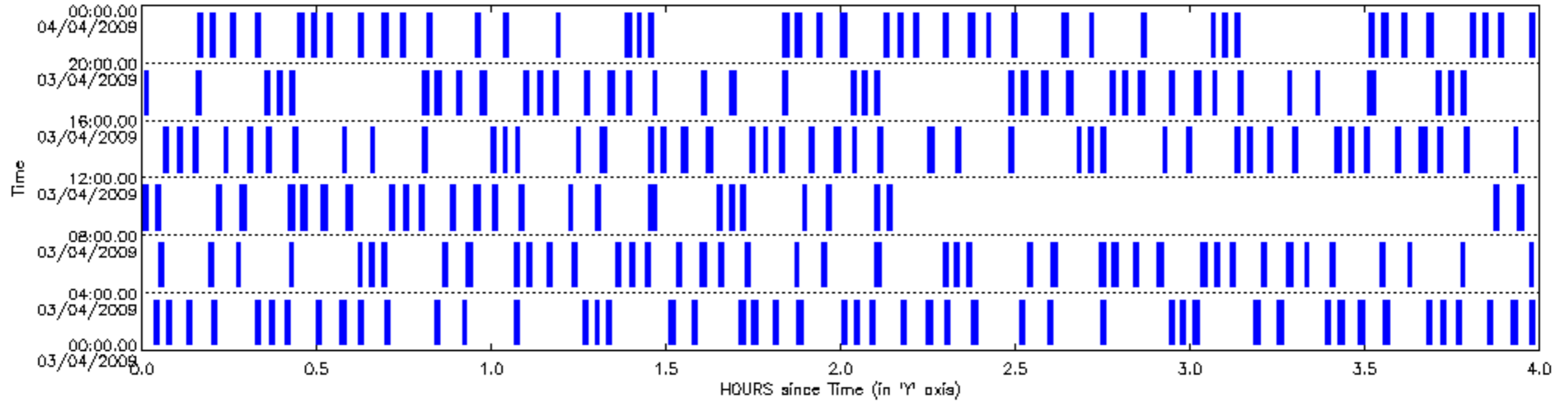
Lower curve: STD of SATU X axis

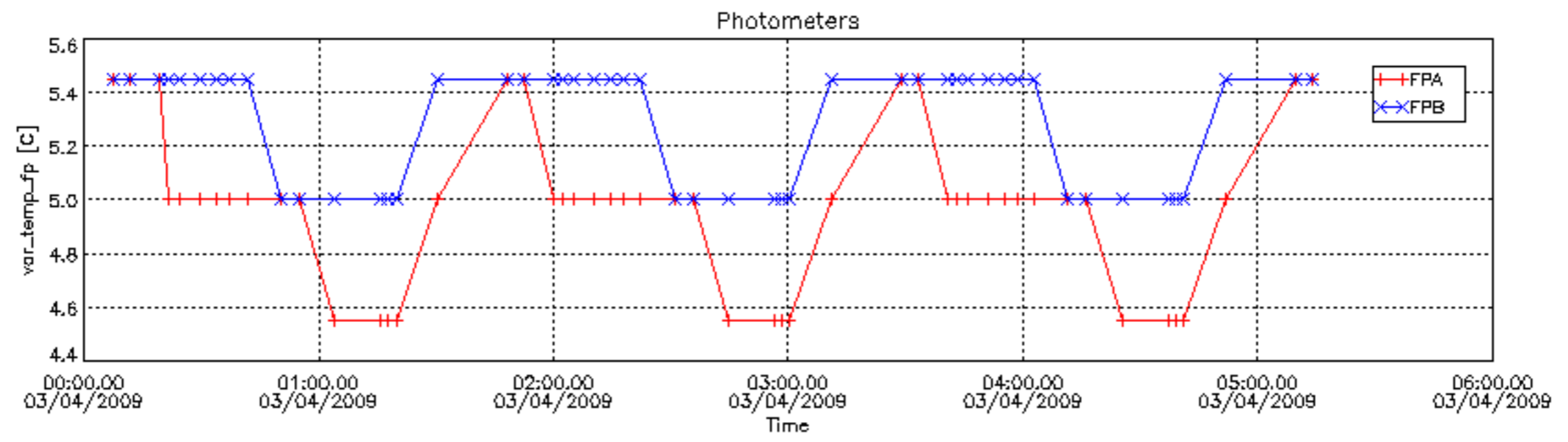
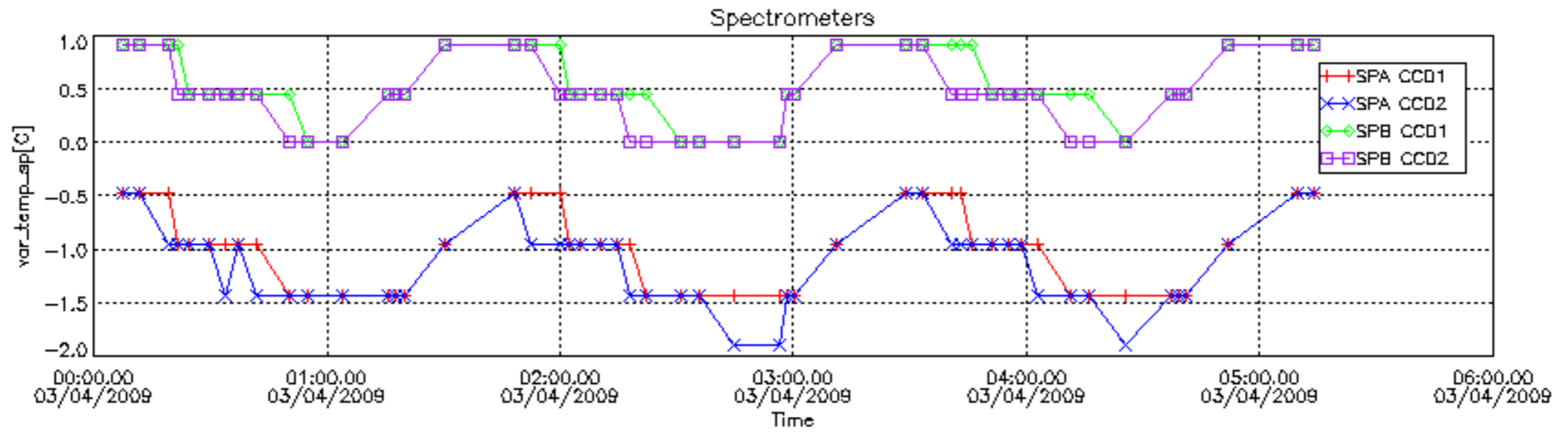


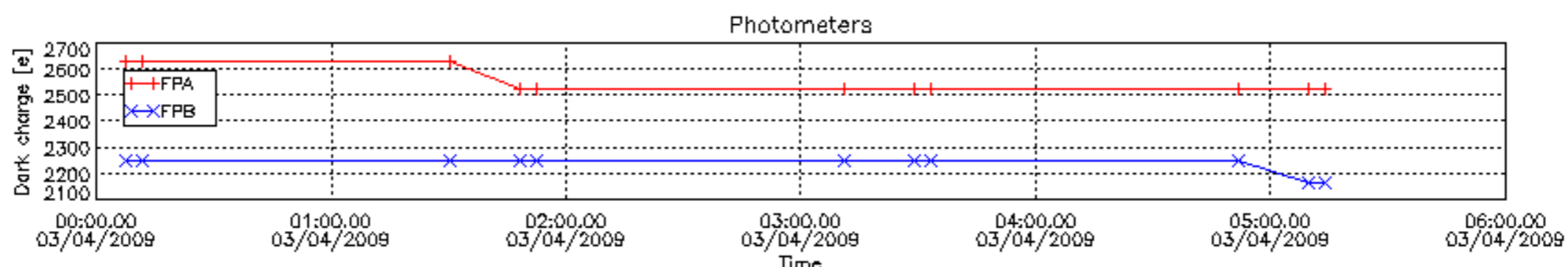
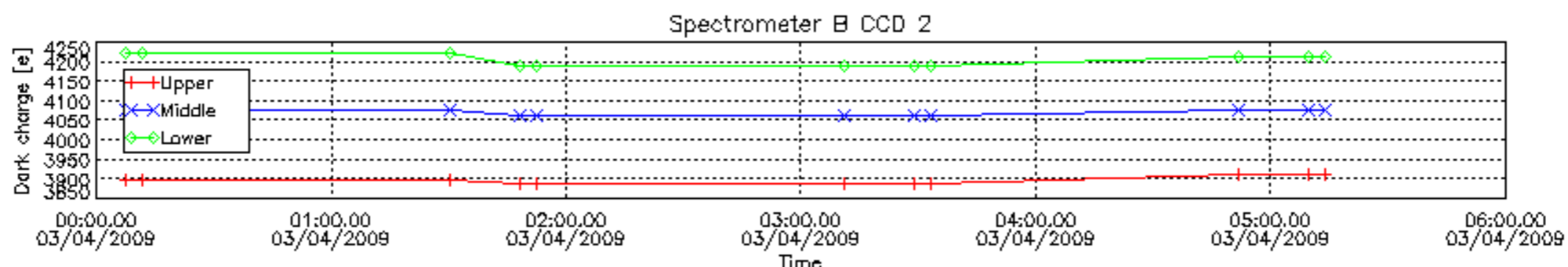
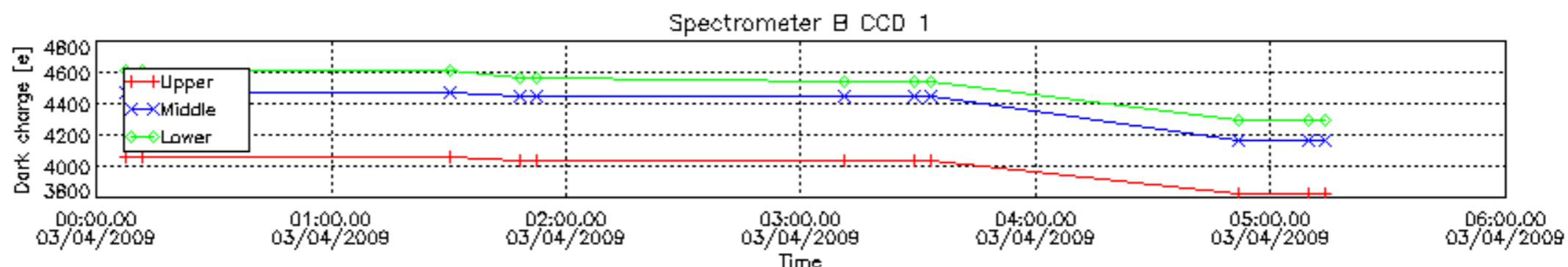
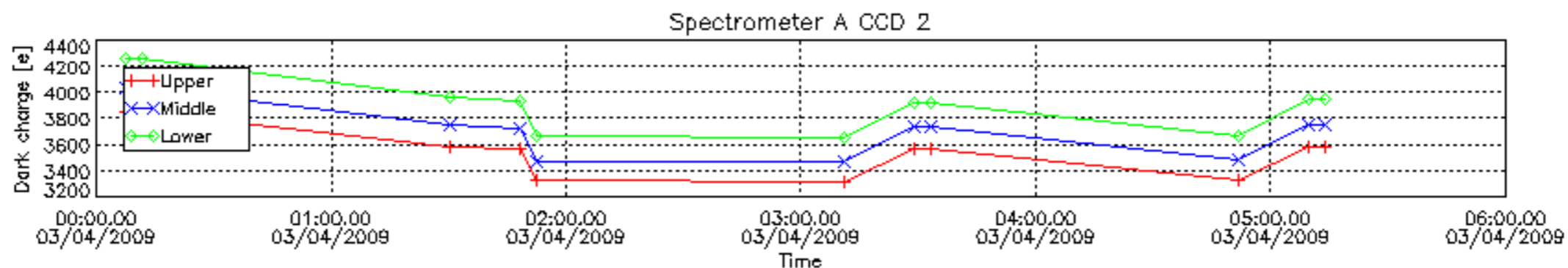
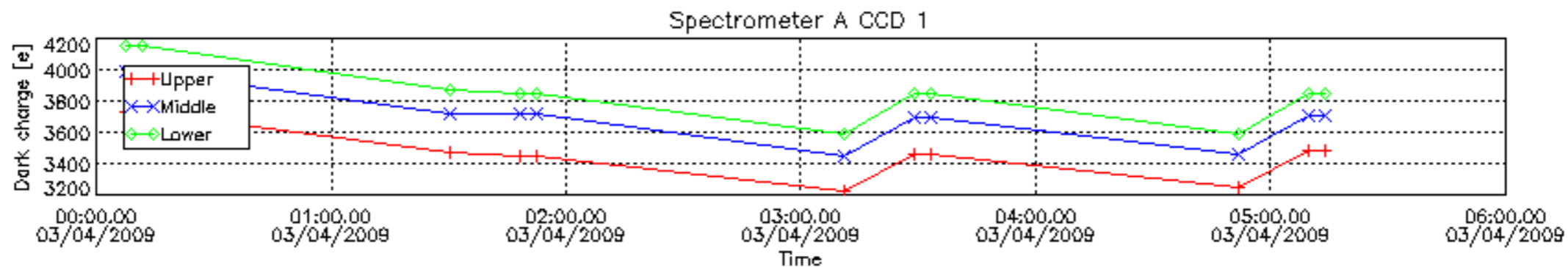
8. Auxiliary Data Files used for the production reported in section 2.4

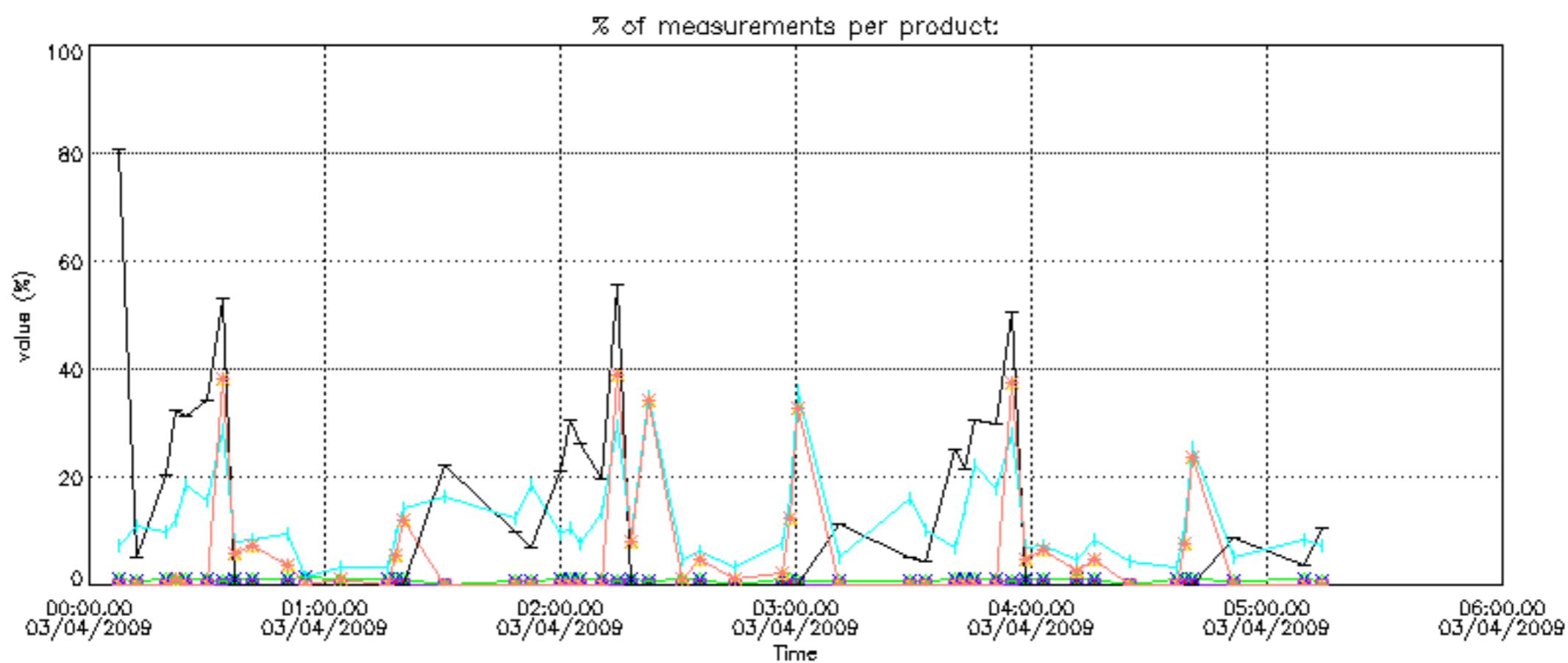
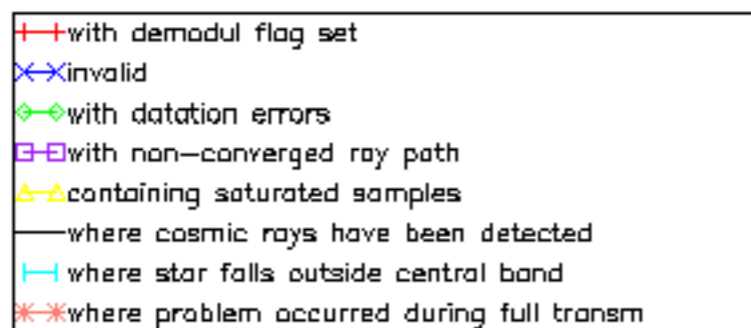
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	03-APR-2009 00:07:40
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090323_082818_20090321_000000_20100101_000000	1	03-APR-2009 00:07:40
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-APR-2009 00:07:40
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-APR-2009 00:07:40
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-APR-2009 00:07:40
ECMWF_FILE	AUX_ECF_AXNECM20090402_064111_20090402_210000_20090403_090000	1	03-APR-2009 00:07:40
ECMWF_FILE	AUX_ECF_AXNECM20090402_182111_20090403_030000_20090403_150000	45	03-APR-2009 04:36:59
OPTIONAL_ECMWF_FILE	MISSING	1	03-APR-2009 00:07:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090402_221231_000057382077_00444_37071_7676.N1	1	03-APR-2009 00:07:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090402_235328_000054192077_00445_37072_7677.N1	17	03-APR-2009 01:48:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090403_012906_000044632077_00446_37073_7678.N1	29	03-APR-2009 02:56:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090403_024848_000054192077_00447_37074_7679.N1	45	03-APR-2009 04:36:59

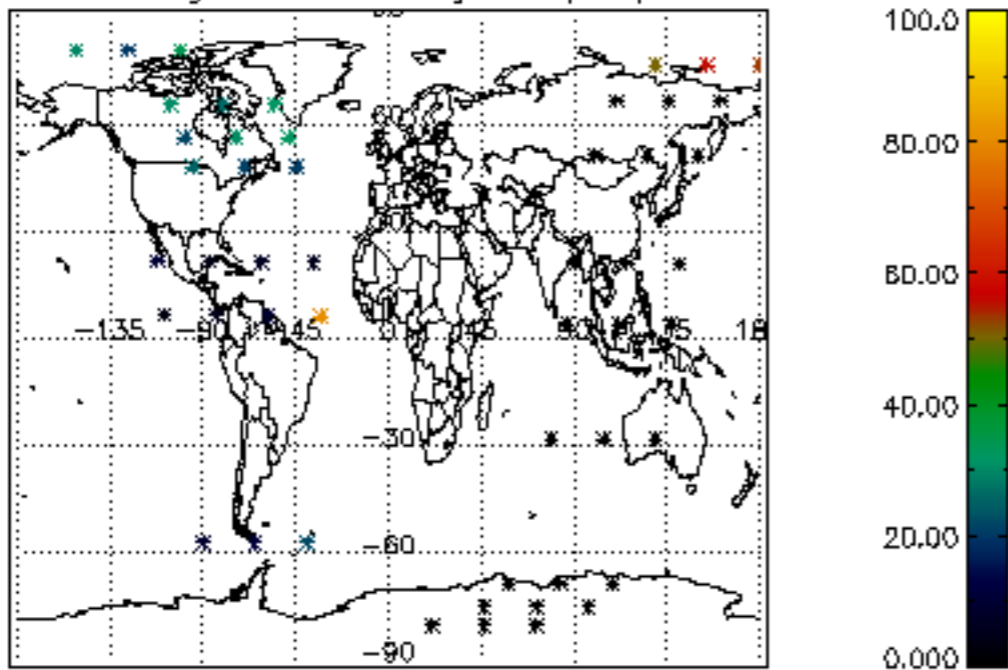




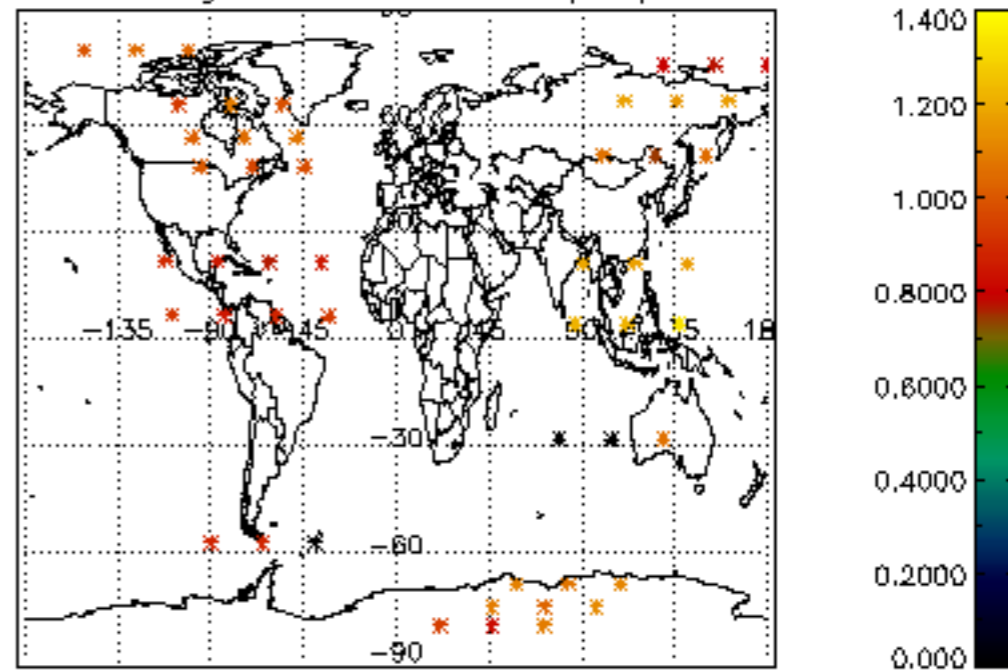




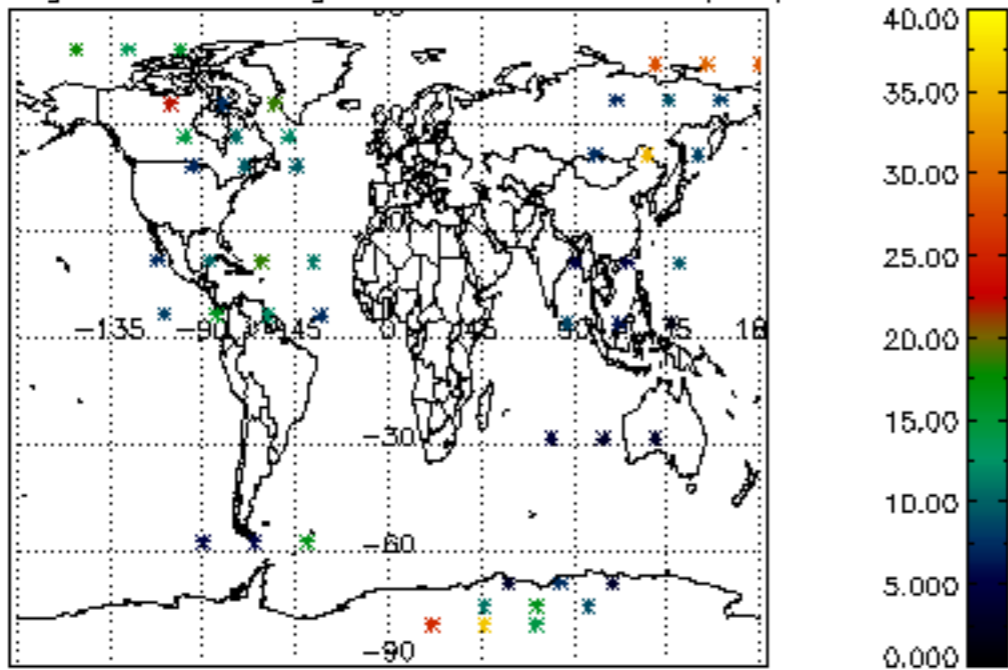
Percentage of cosmic ray hits per profile



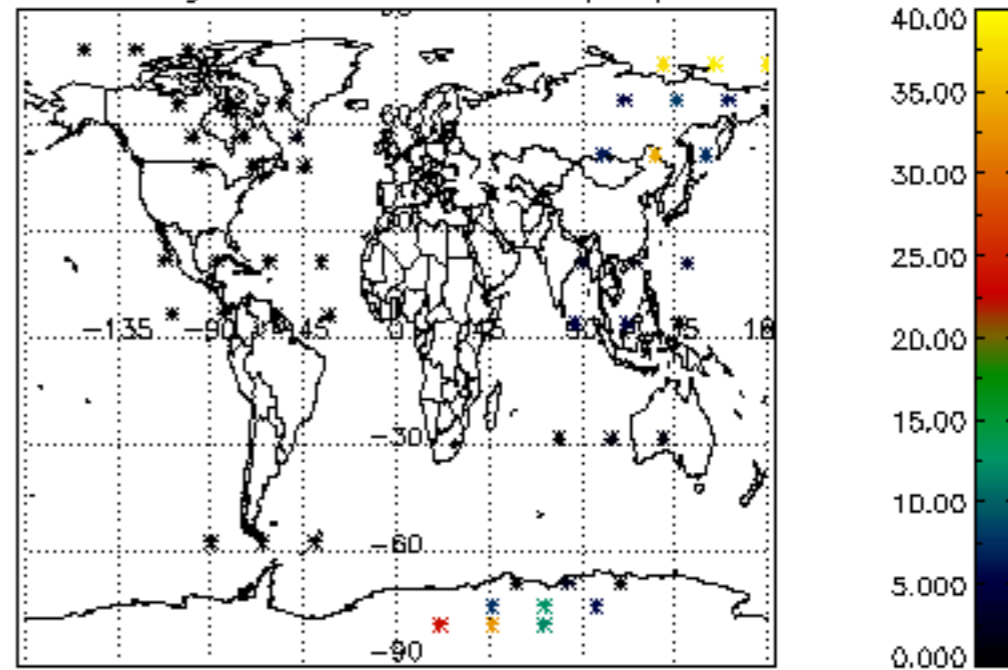
Percentage of datation errors per profile



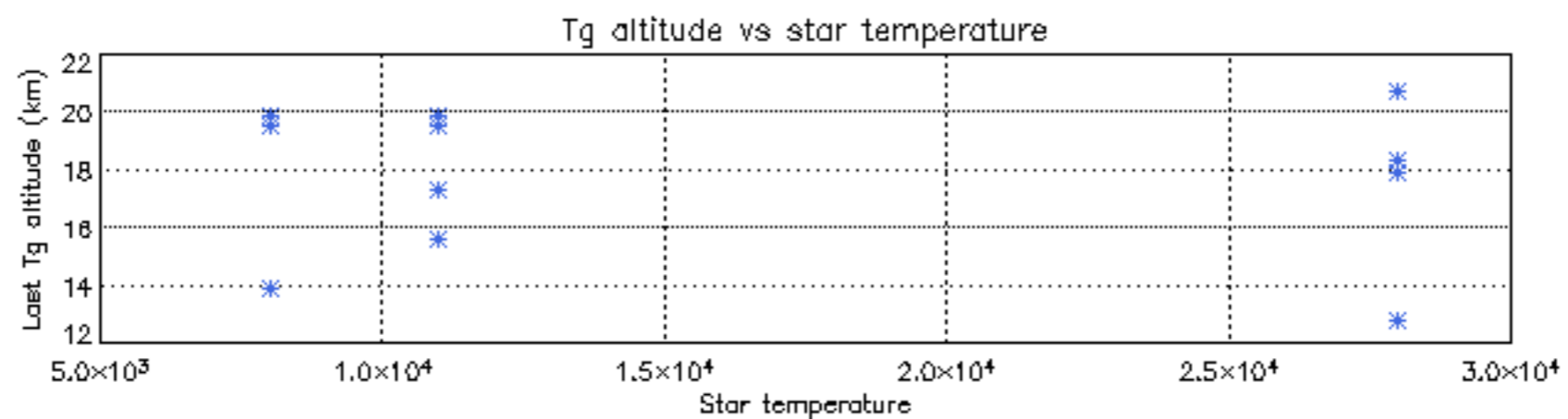
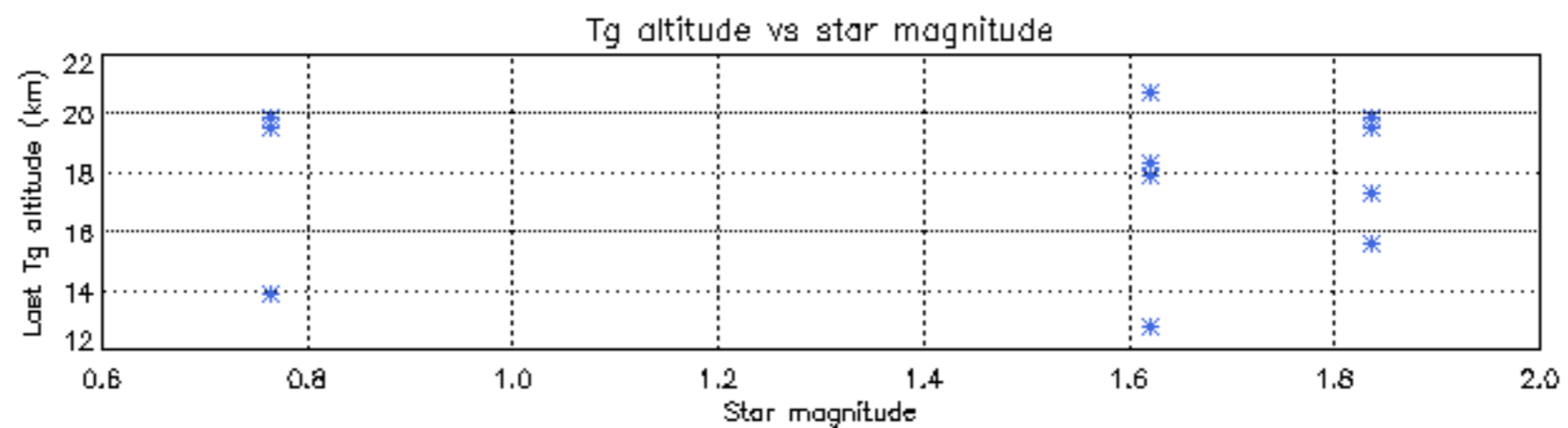
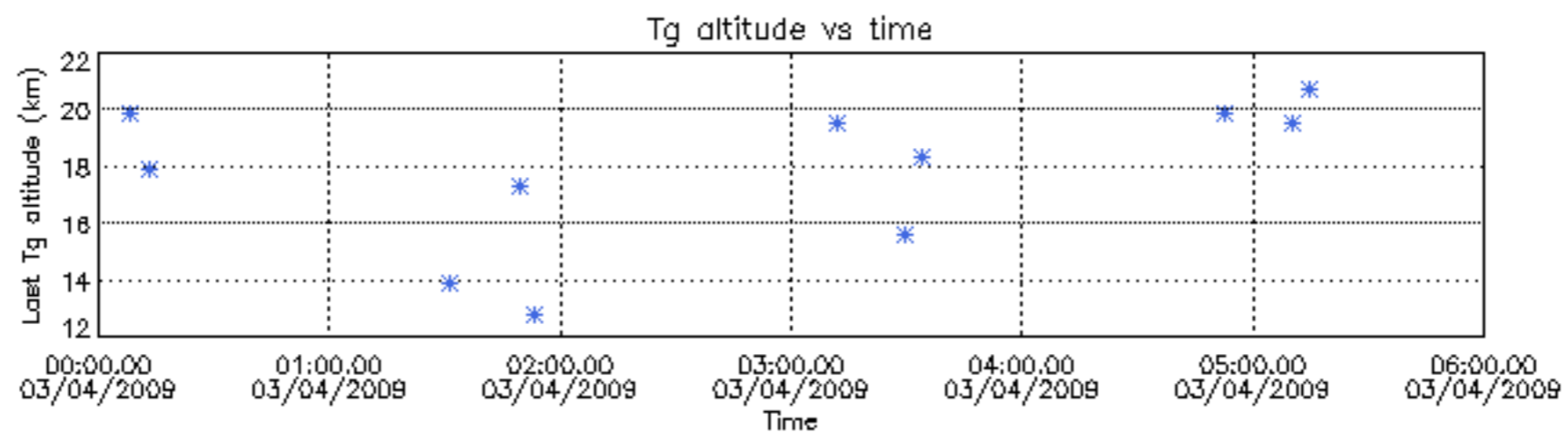
Percentage of star falling outside central band per profile



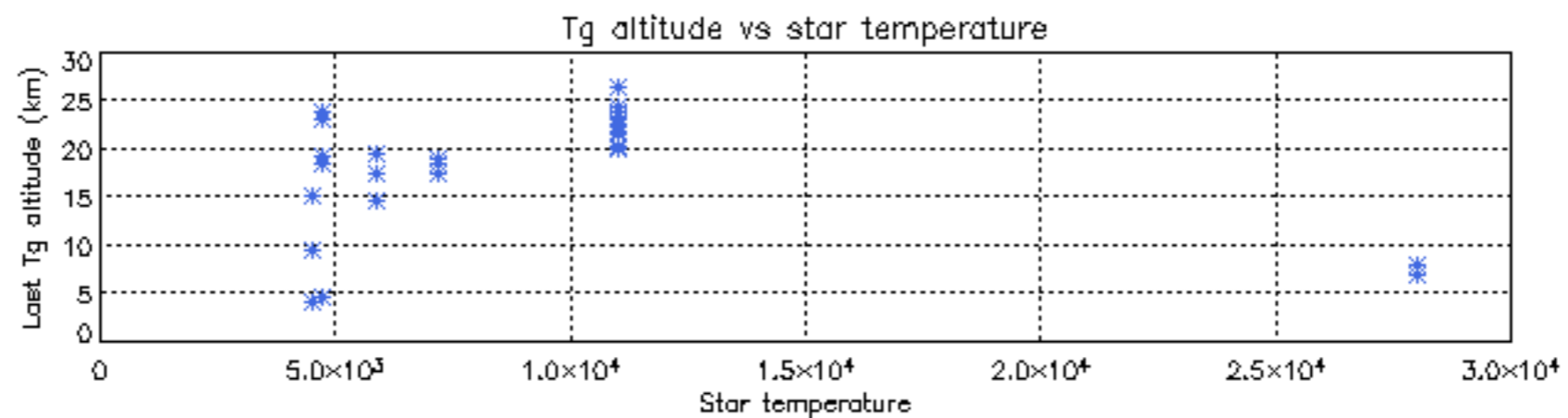
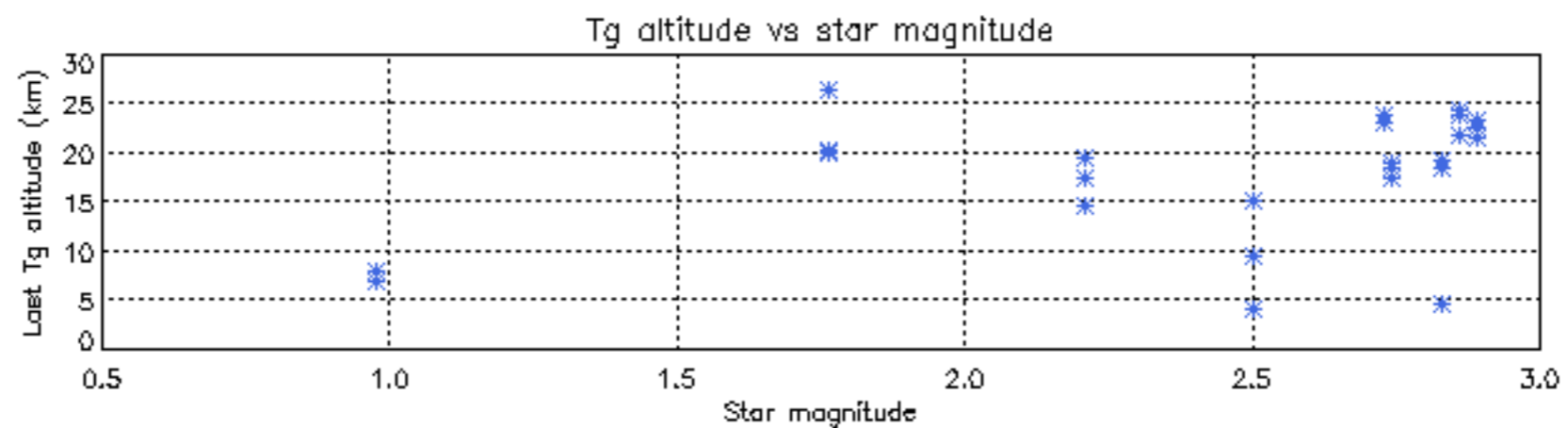
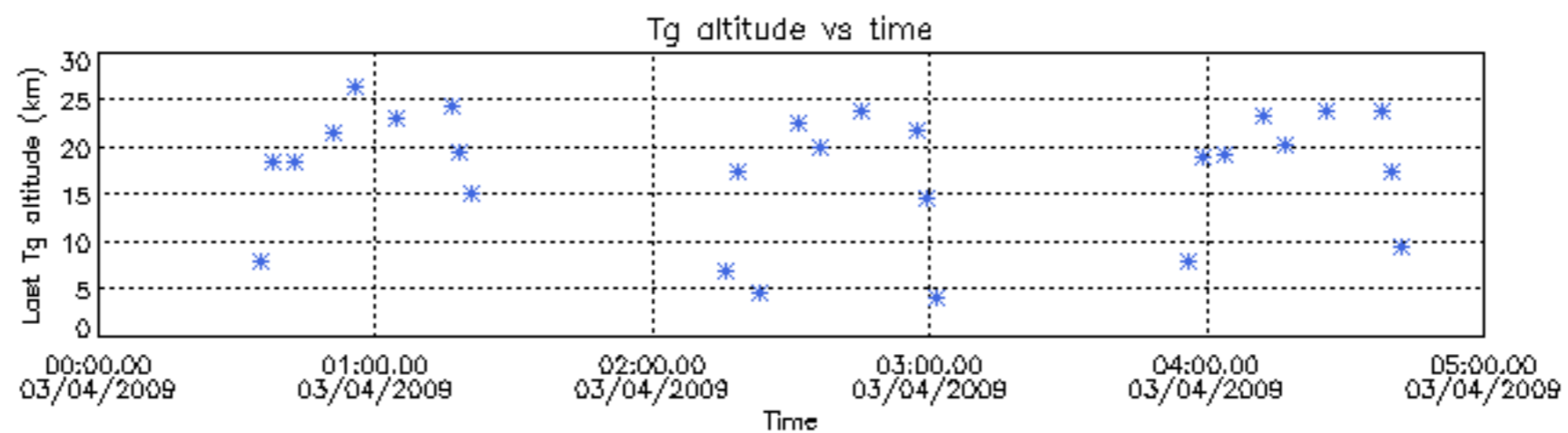
Percentage of saturation errors per profile

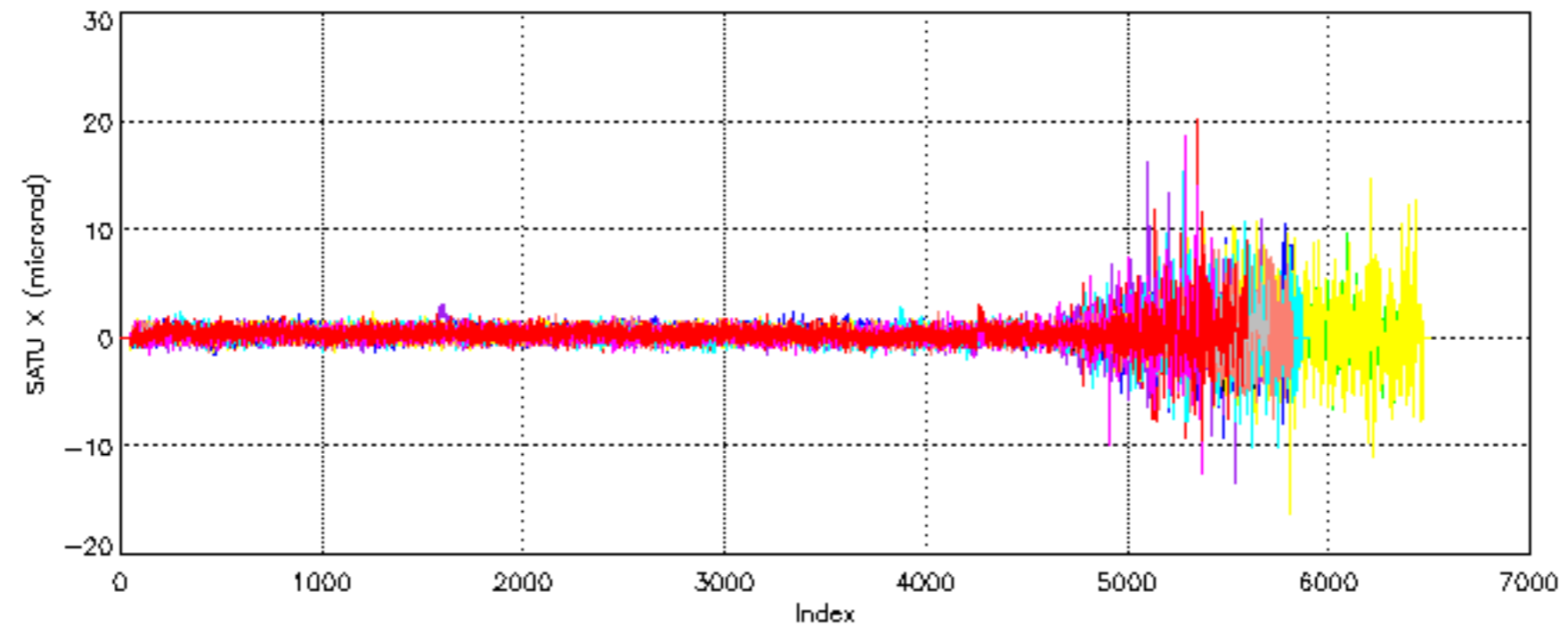


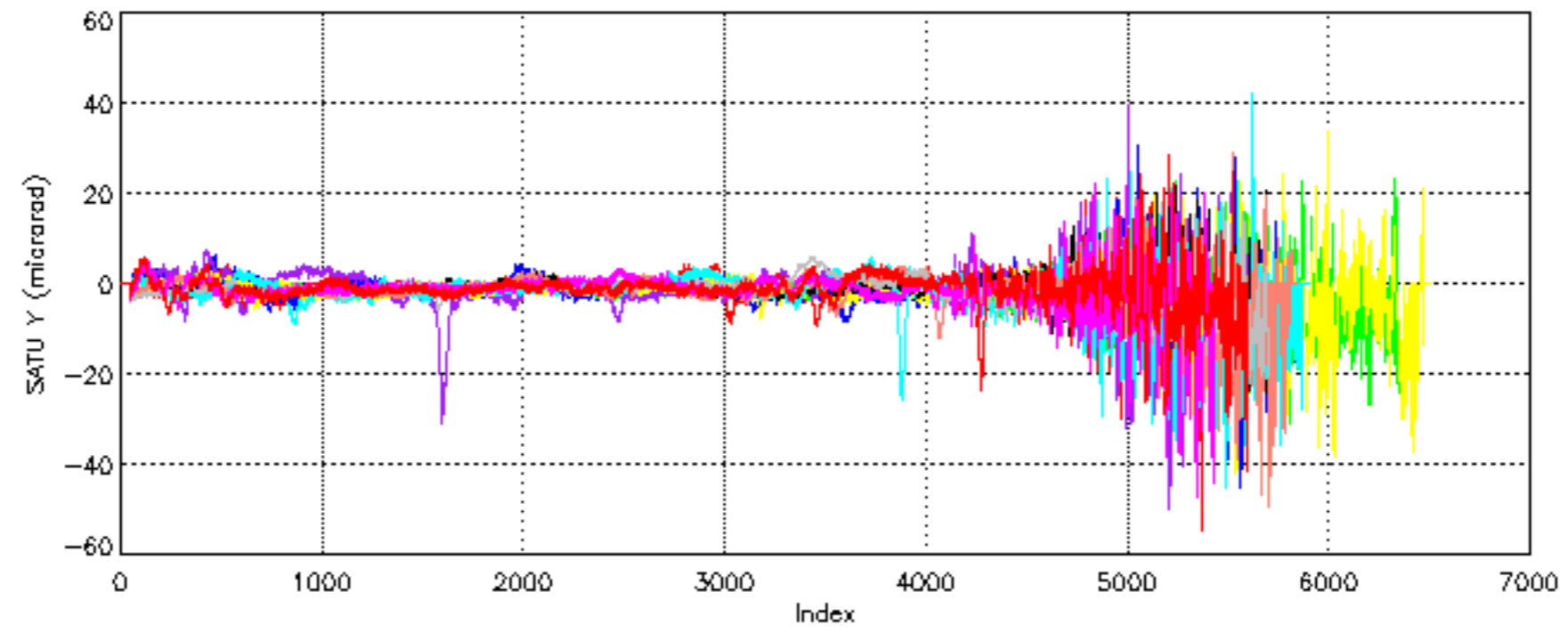
Tangent altitude at which the star is lost

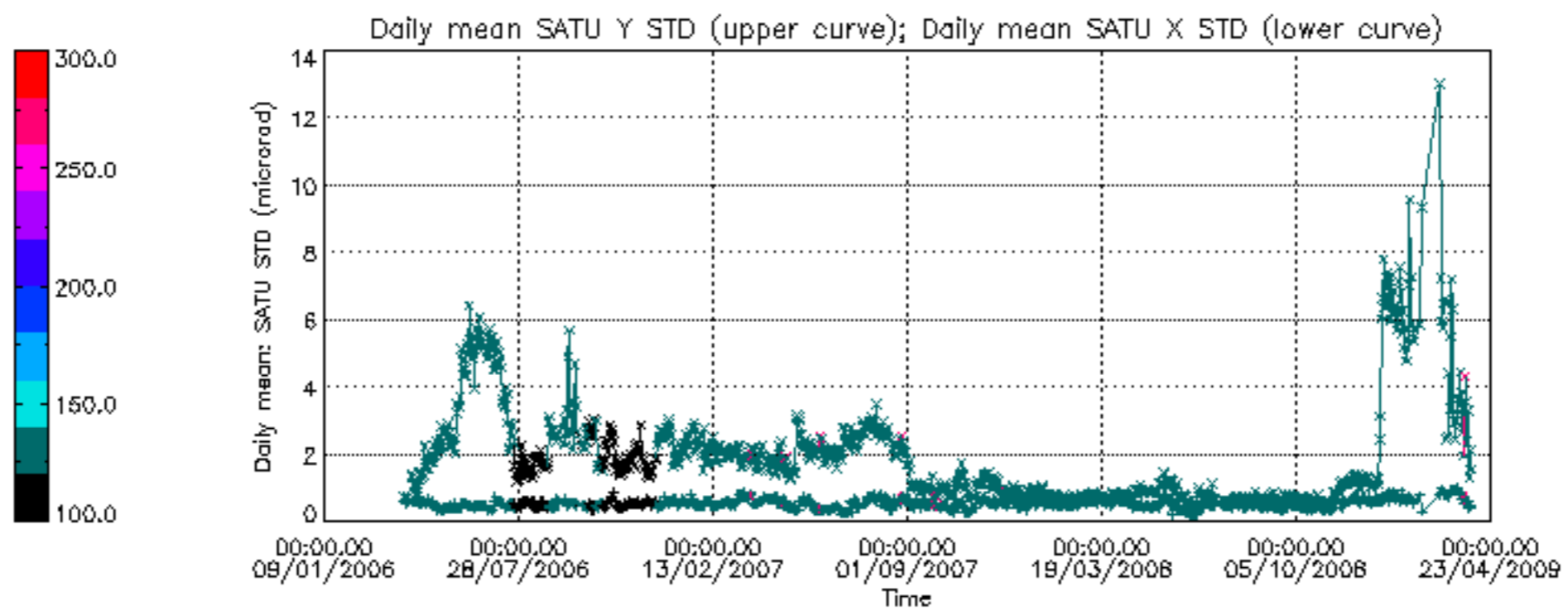


Tangent altitude at which the star is lost









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 3; 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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 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
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 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
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 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
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 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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 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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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
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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
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8; 946.7; 02-APR-2009 02:33:53; Dark ; 46.5; 81; Eta Cen ; 2.36; 28000;occ; 93; 0;37060
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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
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9; 344.5; 02-APR-2009 04:04:27; Dark ; 64.5; 25; 35Lam Sco ; 1.62; 28000;occ; 129; 0;37061
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11; 947.2; 02-APR-2009 04:14:29; Dark ; 50.0; 81; Eta Cen ; 2.36; 28000;occ; 100; 0;37061
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13; 1434.3; 02-APR-2009 04:22:36; Dark ; 49.0; 169; 46Gam Hya ; 2.99; 4700;occ; 98; 0;37061
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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
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 7; 4458.1; 17-APR-2009 19:06:32; Dark ; 30.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 61; 0;37284
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 5; 970.0; 18-APR-2009 00:50:48; Dark ; 31.5; 131; Gam Lup ; 2.80; 26000;occ; 63; 0;37288
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 4; 531.1; 18-APR-2009 02:24:05; Dark ; 35.0; 147; Alp Ara ; 2.88; 26000;occ; 70; 0;37289
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 9; 971.5; 18-APR-2009 04:12:01; Dark ; 32.0; 131; Gam Lup ; 2.80; 26000;occ; 64; 0;37290
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 7; 4459.4; 18-APR-2009 21:56:09; Dark ; 26.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 53; 0;37300
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