

GOMOS Daily Report 05-APR-2009

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	14APR2009 12:04:53
Data source version	GOMOS/5.00
Start time of products	05APR2009 00:00:28
Stop time of products	05APR2009 05:47:34
Store outputs in DB	No
Nb of level 1b prods	50
Nb of prods with errors	0

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

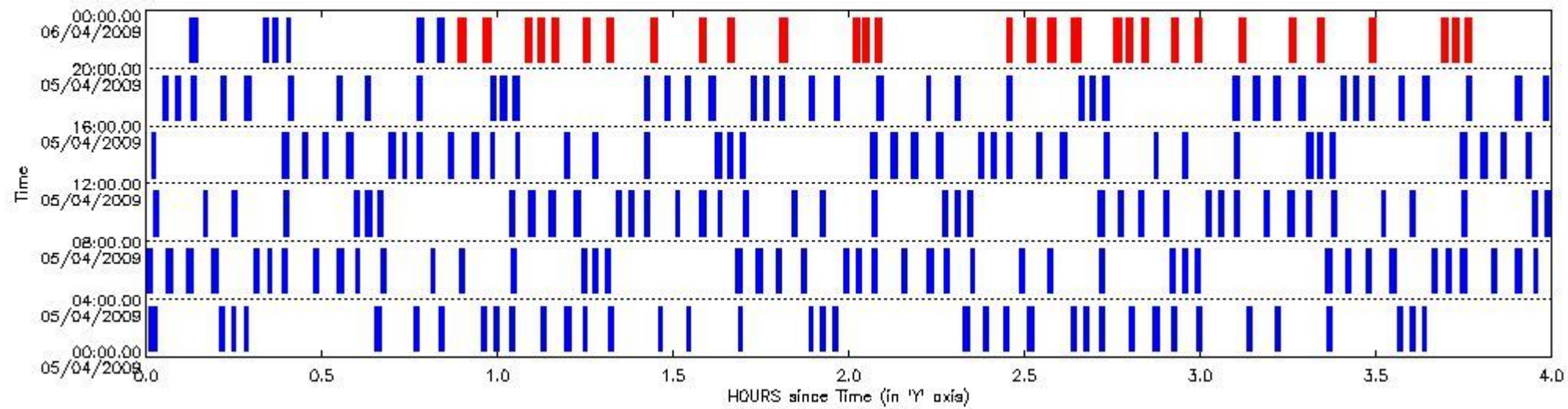
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

UTC start time	Star name	Star ID	Orbit
05-APR-2009 20:53:12	20EpsSgr	38	37114
05-APR-2009 20:57:26	35LamSco	25	37114
05-APR-2009 21:04:36	GamLup	131	37114
05-APR-2009 21:06:47	EtaCen	81	37114
05-APR-2009 21:09:23	5TheCen	54	37114
05-APR-2009 21:14:35	46GamHya	169	37114
05-APR-2009 21:18:37	67AlpVir	15	37114
05-APR-2009 21:26:03	47EpsVir	138	37114
05-APR-2009 21:34:30	12Alp2CVn	152	37114
05-APR-2009 21:39:20	85EtaUMa	39	37114
05-APR-2009 21:48:09	14EtaDra	119	37114
05-APR-2009 22:00:39	50AlpCyg	19	37114
05-APR-2009 22:02:21	37GamCyg	66	37114
05-APR-2009 22:04:31	53EpsCyg	92	37114
05-APR-2009 22:26:53	DSA1040	0	37114

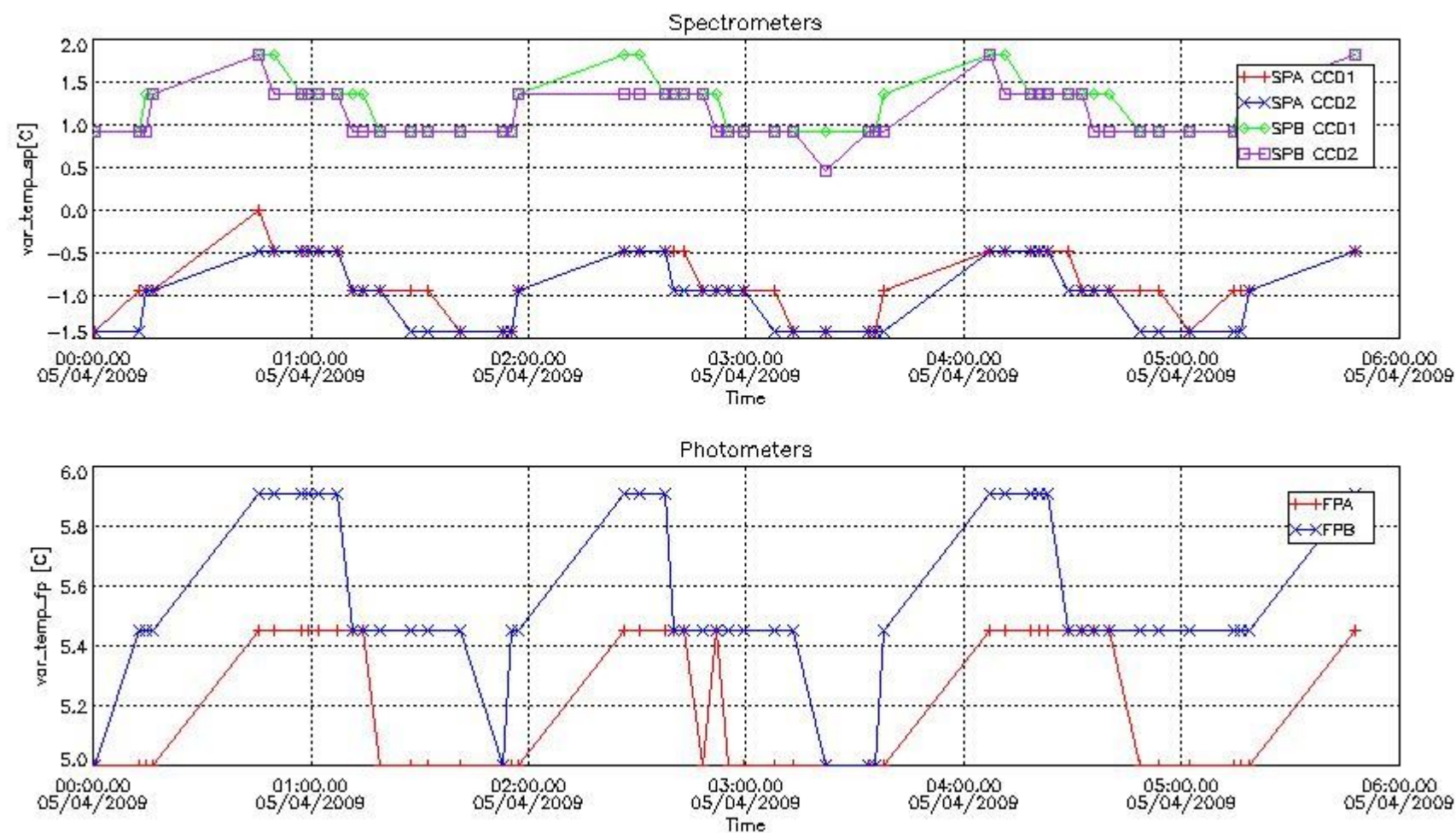
05-APR-2009 22:30:23	34SigSgr	57	37114
05-APR-2009 22:33:50	20EpsSgr	38	37115
05-APR-2009 22:38:03	35LamSco	25	37115
05-APR-2009 22:45:13	GamLup	131	37115
05-APR-2009 22:47:24	EtaCen	81	37115
05-APR-2009 22:50:00	5TheCen	54	37115
05-APR-2009 22:55:11	46GamHya	169	37115
05-APR-2009 22:59:13	67AlpVir	15	37115
05-APR-2009 23:06:39	47EpsVir	138	37115
05-APR-2009 23:15:05	12Alp2CVn	152	37115
05-APR-2009 23:19:55	85EtaUMa	39	37115
05-APR-2009 23:28:44	14EtaDra	119	37115
05-APR-2009 23:41:15	50AlpCyg	19	37115
05-APR-2009 23:42:57	37GamCyg	66	37115
05-APR-2009 23:45:07	53EpsCyg	92	37115

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_1PNPDE20090405_000028_000000712077_00474_37101_2252.N1	05-APR-2009 00:00:28	Bright	71.000	119	14Eta Dra	2.7270	4700.0	142	37101	No
2	GOM_TRA_1PNPDE20090405_001229_000000482077_00474_37101_2253.N1	05-APR-2009 00:12:29	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	37101	No
3	GOM_TRA_1PNPDE20090405_001431_000000452077_00474_37101_2254.N1	05-APR-2009 00:14:31	Bright	45.000	66	37Gam Cyg	2.2080	5900.0	90	37101	No
4	GOM_TRA_1PNPDE20090405_001639_000000432077_00474_37101_2255.N1	05-APR-2009 00:16:39	Bright	42.500	92	53Eps Cyg	2.5000	4500.0	85	37101	No
5	GOM_TRA_1PNPDE20090405_004541_000000572077_00475_37102_2406.N1	05-APR-2009 00:45:41	Dark	56.500	38	20Eps Sgr	1.8360	11000.	113	37102	No
6	GOM_TRA_1PNPDE20090405_004955_000000582077_00475_37102_2407.N1	05-APR-2009 00:49:55	Dark	58.000	25	35Lam Sco	1.6200	28000.	116	37102	No
7	GOM_TRA_1PNPDE20090405_005712_000000502077_00475_37102_2408.N1	05-APR-2009 00:57:12	Straylight	50.000	131	Gam Lup	2.8000	26000.	100	37102	No
8	GOM_TRA_1PNPDE20090405_005926_000000482077_00475_37102_2409.N1	05-APR-2009 00:59:26	Straylight	47.500	81	Eta Cen	2.3560	28000.	95	37102	No
9	GOM_TRA_1PNPDE20090405_010204_000000522077_00475_37102_2410.N1	05-APR-2009 01:02:04	Straylight	52.000	54	5The Cen	2.0550	4500.0	104	37102	No
10	GOM_TRA_1PNPDE20090405_010718_000000472077_00475_37102_2411.N1	05-APR-2009 01:07:18	Twilight_stray	47.000	169	46Gam Hya	2.9910	4700.0	94	37102	No
11	GOM_TRA_1PNPDE20090405_011122_000000662077_00475_37102_2412.N1	05-APR-2009 01:11:22	Bright	66.000	15	67Alp Vir	0.97600	28000.	132	37102	No
12	GOM_TRA_1PNPDE20090405_011433_000000432077_00475_37102_2413.N1	05-APR-2009 01:14:33	Bright	42.500	121	29Gam Vir	2.7400	7200.0	85	37102	No
13	GOM_TRA_1PNPDE20090405_011853_000000462077_00475_37102_2414.N1	05-APR-2009 01:18:53	Bright	46.000	138	47Eps Vir	2.8280	4700.0	92	37102	No
14	GOM_TRA_1PNPDE20090405_012721_000000422077_00475_37102_2415.N1	05-APR-2009 01:27:21	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	37102	No
15	GOM_TRA_1PNPDE20090405_013214_000000442077_00475_37102_2416.N1	05-APR-2009 01:32:14	Bright	44.000	39	85Eta UMa	1.8540	24000.	88	37102	No
16	GOM_TRA_1PNPDE20090405_014103_000000452077_00475_37102_2417.N1	05-APR-2009 01:41:03	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	37102	No
17	GOM_TRA_1PNPDE20090405_015304_000000472077_00475_37102_2418.N1	05-APR-2009 01:53:04	Bright	47.000	144	18Del Cyg	2.8600	11000.	94	37102	No
18	GOM_TRA_1PNPDE20090405_015507_000000452077_00475_37102_2419.N1	05-APR-2009 01:55:07	Bright	44.500	66	37Gam Cyg	2.2080	5900.0	89	37102	No
19	GOM_TRA_1PNPDE20090405_015715_000000442077_00475_37102_2420.N1	05-APR-2009 01:57:15	Bright	44.000	92	53Eps Cyg	2.5000	4500.0	88	37102	No
20	GOM_TRA_1PNPDE20090405_022619_000000562077_00476_37103_2532.N1	05-APR-2009 02:26:19	Dark	56.000	38	20Eps Sgr	1.8360	11000.	112	37103	No
21	GOM_TRA_1PNPDE20090405_023033_000000582077_00476_37103_2533.N1	05-APR-2009 02:30:33	Dark	57.500	25	35Lam Sco	1.6200	28000.	115	37103	No
22	GOM_TRA_1PNPDE20090405_023748_000000502077_00476_37103_2534.N1	05-APR-2009 02:37:48	Straylight	50.000	131	Gam Lup	2.8000	26000.	100	37103	No
23	GOM_TRA_1PNPDE20090405_024003_000000462077_00476_37103_2535.N1	05-APR-2009 02:40:03	Straylight	46.000	81	Eta Cen	2.3560	28000.	92	37103	No
24	GOM_TRA_1PNPDE20090405_024240_000000512077_00476_37103_2536.N1	05-APR-2009 02:42:40	Straylight	50.500	54	5The Cen	2.0550	4500.0	101	37103	No
25	GOM_TRA_1PNPDE20090405_024754_000000502077_00476_37103_2537.N1	05-APR-2009 02:47:54	Twilight_stray	50.000	169	46Gam Hya	2.9910	4700.0	100	37103	No
26	GOM_TRA_1PNPDE20090405_025159_000000612077_00476_37103_2538.N1	05-APR-2009 02:51:59	Bright	60.500	15	67Alp Vir	0.97600	28000.	121	37103	No
27	GOM_TRA_1PNPDE20090405_025509_000000432077_00476_37103_2539.N1	05-APR-2009 02:55:09	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	37103	No
28	GOM_TRA_1PNPDE20090405_025929_000000452077_00476_37103_2540.N1	05-APR-2009 02:59:29	Bright	44.500	138	47Eps Vir	2.8280	4700.0	89	37103	No
29	GOM_TRA_1PNPDE20090405_030757_000000422077_00476_37103_2541.N1	05-APR-2009 03:07:57	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	37103	No
30	GOM_TRA_1PNPDE20090405_031249_000000442077_00476_37103_2542.N1	05-APR-2009 03:12:49	Bright	44.000	39	85Eta UMa	1.8540	24000.	88	37103	No
31	GOM_TRA_1PNPDE20090405_032138_000000472077_00476_37103_2543.N1	05-APR-2009 03:21:38	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	37103	No
32	GOM_TRA_1PNPDE20090405_033340_000000472077_00476_37103_2715.N1	05-APR-2009 03:33:40	Bright	47.000	144	18Del Cyg	2.8600	11000.	94	37103	No
33	GOM_TRA_1PNPDE20090405_033543_000000462077_00476_37103_2716.N1	05-APR-2009 03:35:43	Bright	46.000	66	37Gam Cyg	2.2080	5900.0	92	37103	No
34	GOM_TRA_1PNPDE20090405_033751_000000442077_00476_37103_2717.N1	05-APR-2009 03:37:51	Bright	44.000	92	53Eps Cyg	2.5000	4500.0	88	37103	No
35	GOM_TRA_1PNPDE20090405_040656_000000602077_00477_37104_2719.N1	05-APR-2009 04:06:56	Dark	60.000	38	20Eps Sgr	1.8360	11000.	120	37104	No
36	GOM_TRA_1PNPDE20090405_041110_000000592077_00477_37104_2720.N1	05-APR-2009 04:11:10	Dark	59.000	25	35Lam Sco	1.6200	28000.	118	37104	No
37	GOM_TRA_1PNPDE20090405_041825_000000502077_00477_37104_2721.N1	05-APR-2009 04:18:25	Straylight	49.500	131	Gam Lup	2.8000	26000.	99	37104	No
38	GOM_TRA_1PNPDE20090405_042039_000000472077_00477_37104_2722.N1	05-APR-2009 04:20:39	Straylight	46.500	81	Eta Cen	2.3560	28000.	93	37104	No
39	GOM_TRA_1PNPDE20090405_042316_000000512077_00477_37104_2723.N1	05-APR-2009 04:23:16	Straylight	50.500	54	5The Cen	2.0550	4500.0	101	37104	No

40	GOM_TRA_1PNPDE20090405_042830_000000482077_00477_37104_2724.N1	05-APR-2009 04:28:30	Twilight_stray	48.000	169	46Gam Hya	2.9910	4700.0	96	37104	No
41	GOM_TRA_1PNPDE20090405_043234_000000622077_00477_37104_2725.N1	05-APR-2009 04:32:34	Bright	61.500	15	67Alp Vir	0.97600	28000.	123	37104	No
42	GOM_TRA_1PNPDE20090405_043545_000000422077_00477_37104_2726.N1	05-APR-2009 04:35:45	Bright	41.500	121	29Gam Vir	2.7400	7200.0	83	37104	No
43	GOM_TRA_1PNPDE20090405_044004_000000462077_00477_37104_2727.N1	05-APR-2009 04:40:04	Bright	45.500	138	47Eps Vir	2.8280	4700.0	91	37104	No
44	GOM_TRA_1PNPDE20090405_044833_000000412077_00477_37104_2728.N1	05-APR-2009 04:48:33	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	37104	No
45	GOM_TRA_1PNPDE20090405_045325_000000462077_00477_37104_2729.N1	05-APR-2009 04:53:25	Bright	45.500	39	85Eta UMa	1.8540	24000.	91	37104	No
46	GOM_TRA_1PNPDE20090405_050213_000000462077_00477_37104_2730.N1	05-APR-2009 05:02:13	Bright	46.000	119	14Eta Dra	2.7270	4700.0	92	37104	No
47	GOM_TRA_1PNPDE20090405_051416_000000482077_00477_37104_2904.N1	05-APR-2009 05:14:16	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	37104	No
48	GOM_TRA_1PNPDE20090405_051619_000000452077_00477_37104_2905.N1	05-APR-2009 05:16:19	Bright	44.500	66	37Gam Cyg	2.2080	5900.0	89	37104	No
49	GOM_TRA_1PNPDE20090405_051828_000000452077_00477_37104_2906.N1	05-APR-2009 05:18:28	Bright	44.500	92	53Eps Cyg	2.5000	4500.0	89	37104	No
50	GOM_TRA_1PNPDE20090405_054734_000000552077_00478_37105_2908.N1	05-APR-2009 05:47:34	Dark	55.000	38	20Eps Sgr	1.8360	11000.	110	37105	No

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

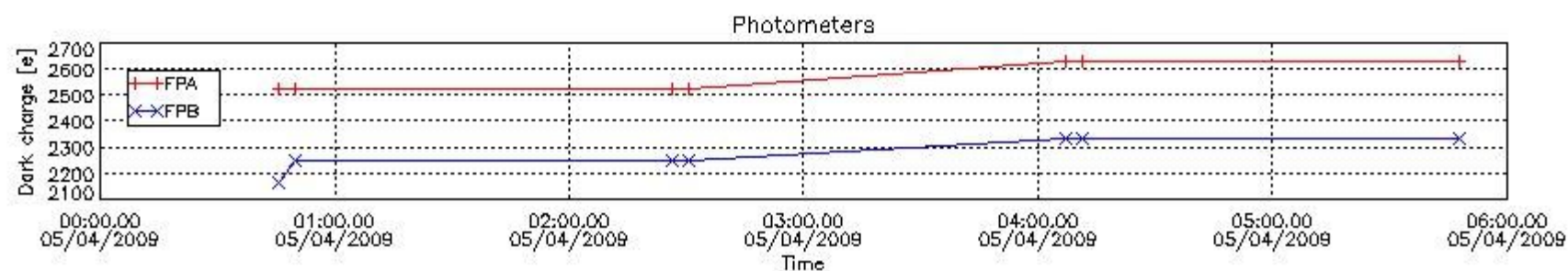
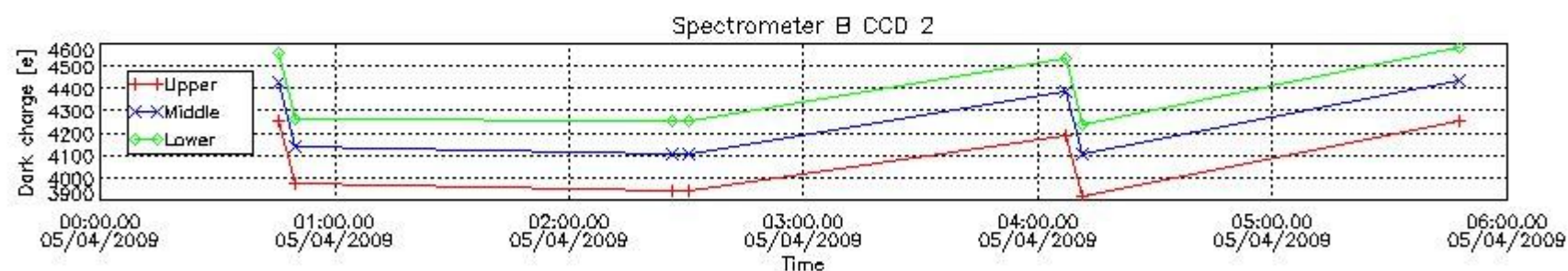
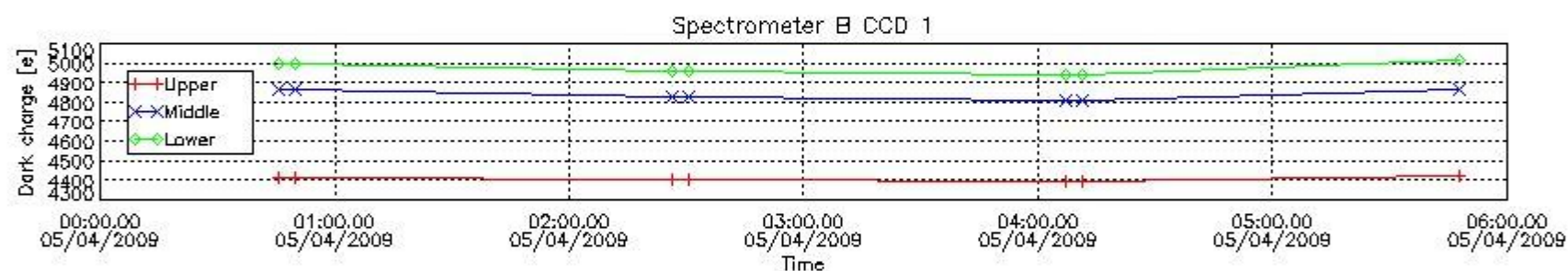
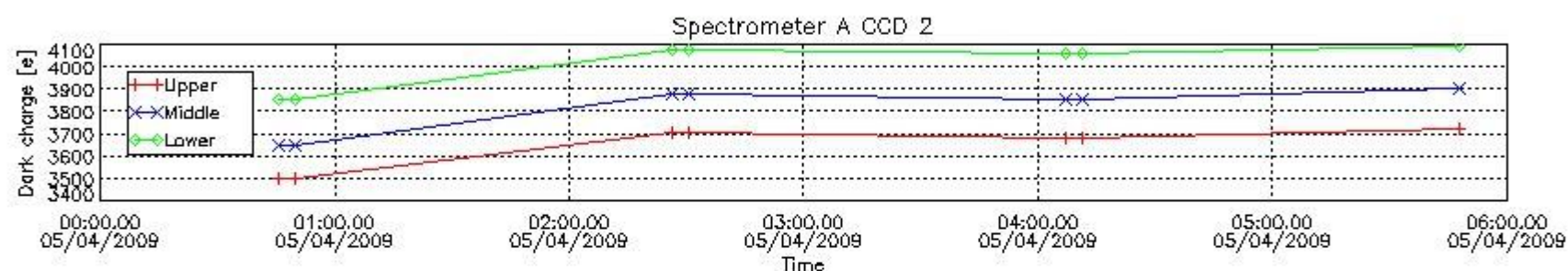
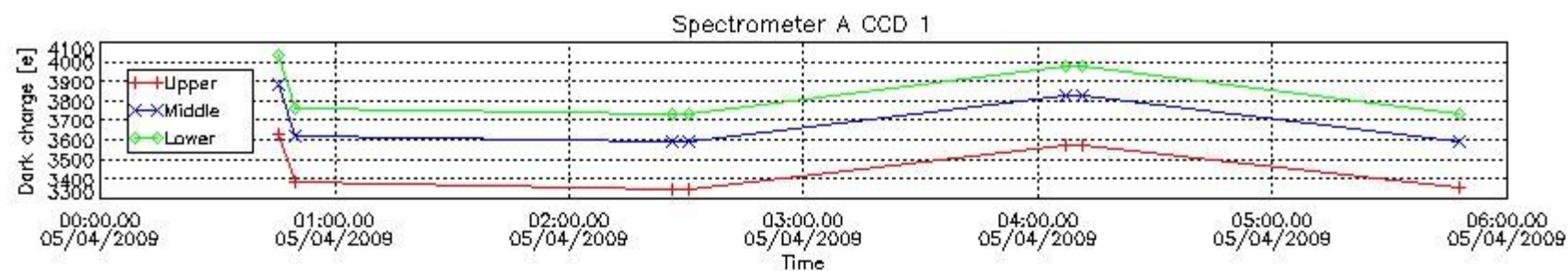


4. Overview of dark signal processing per product

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



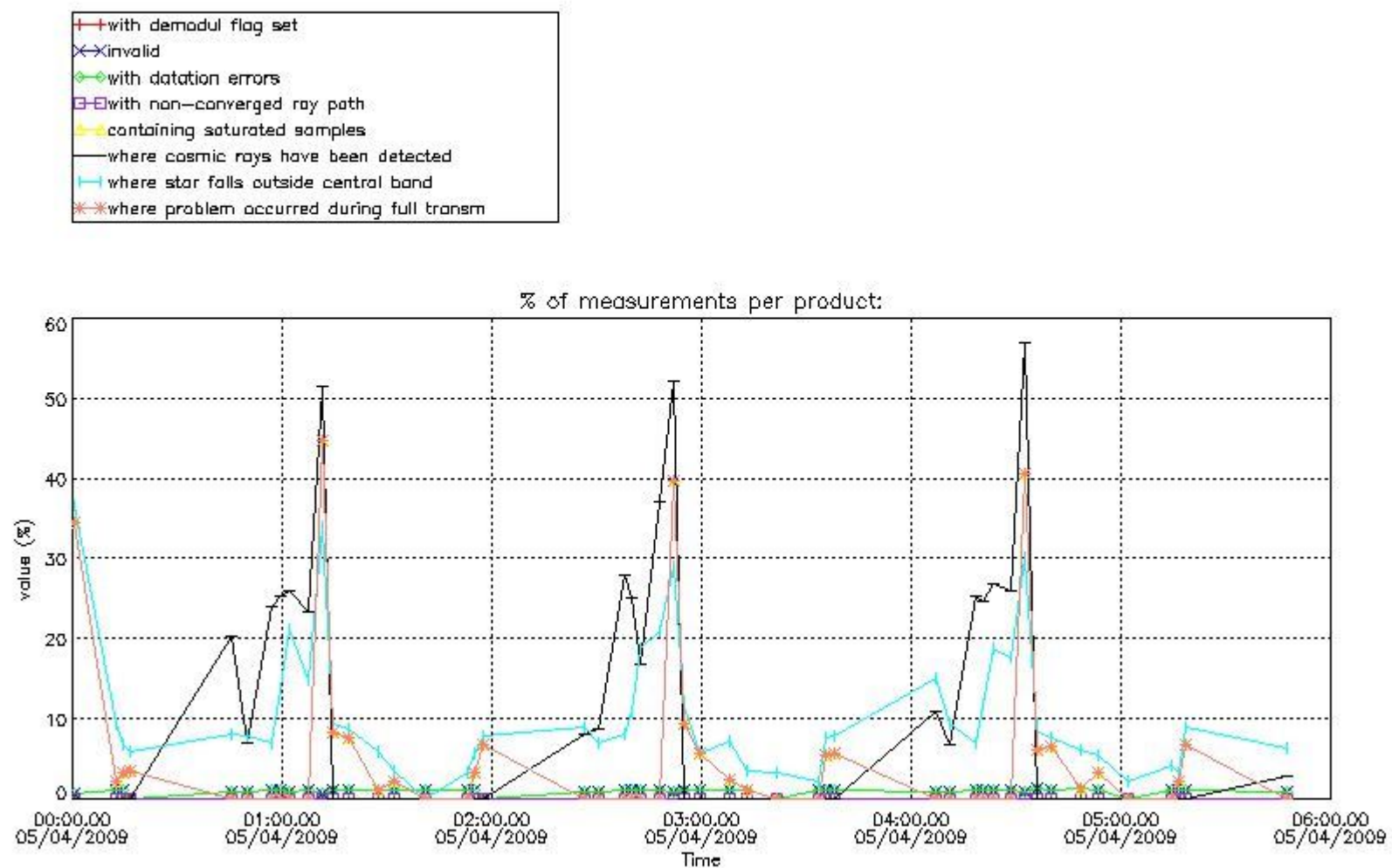
5. Demodulation flag and quality information monitoring

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.

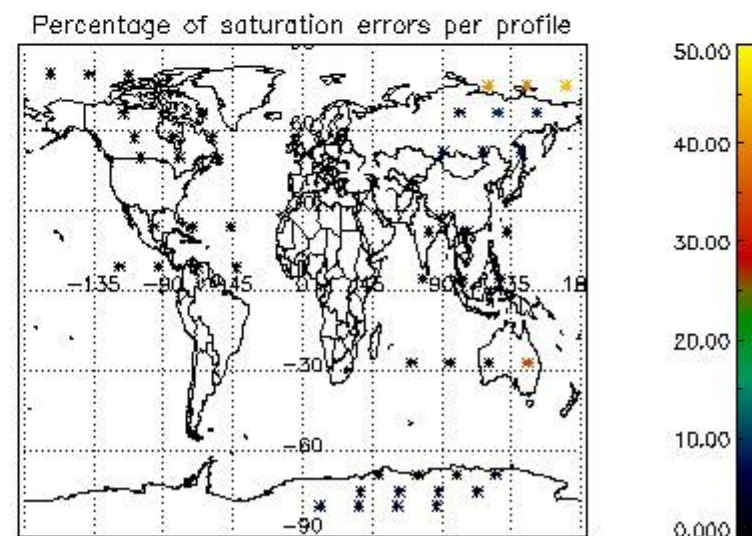
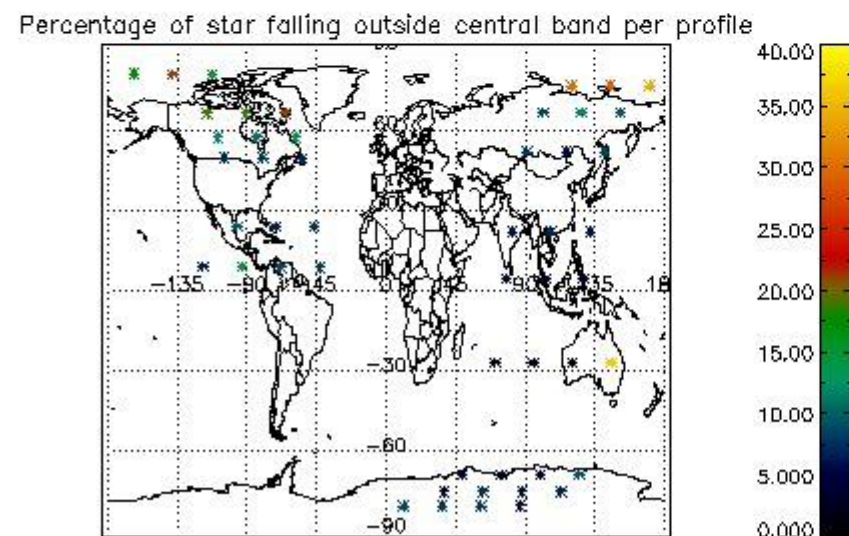
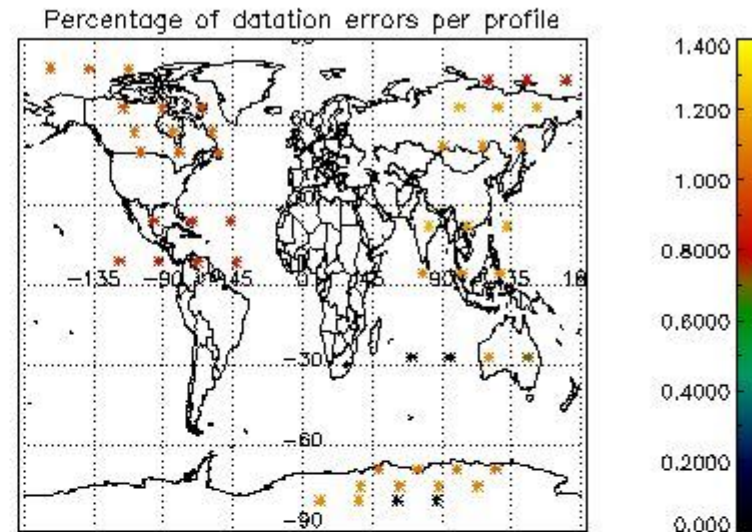
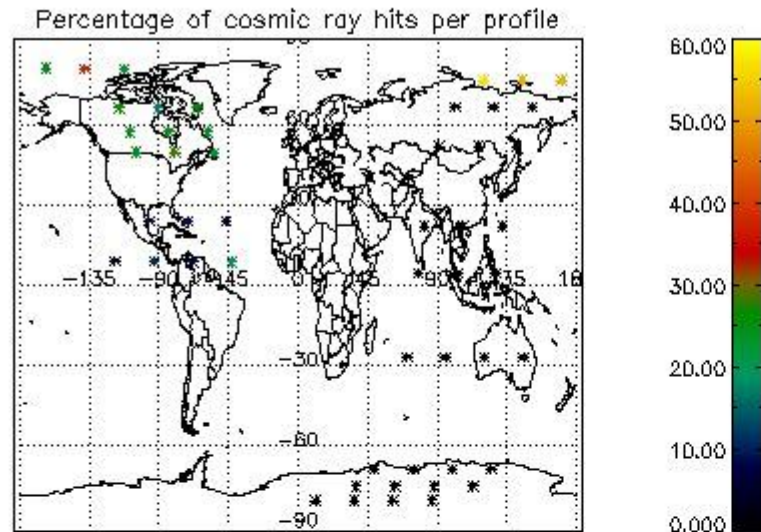
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)



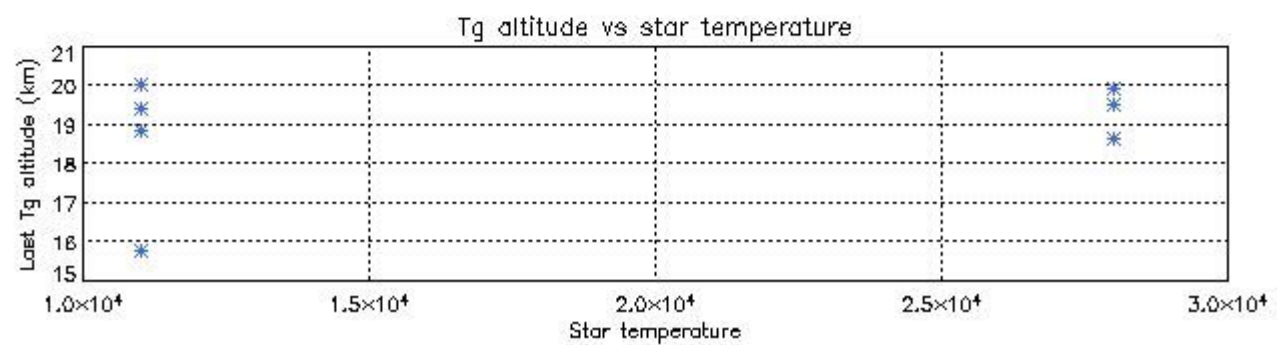
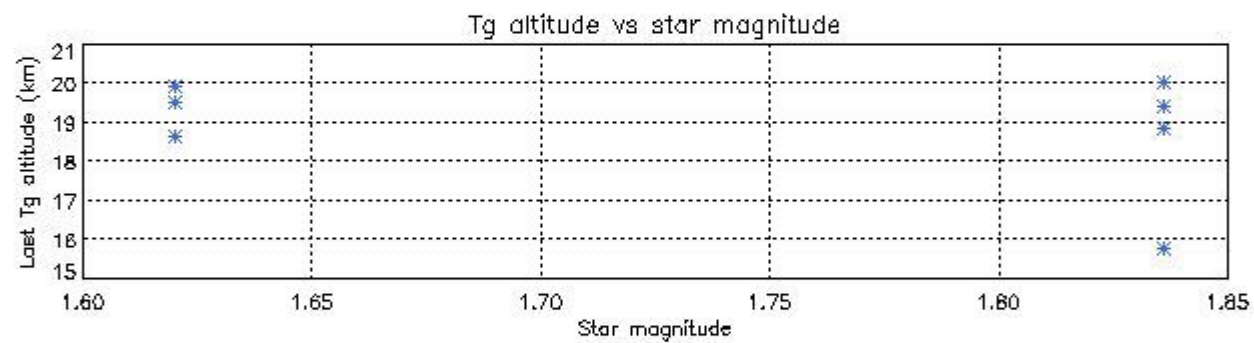
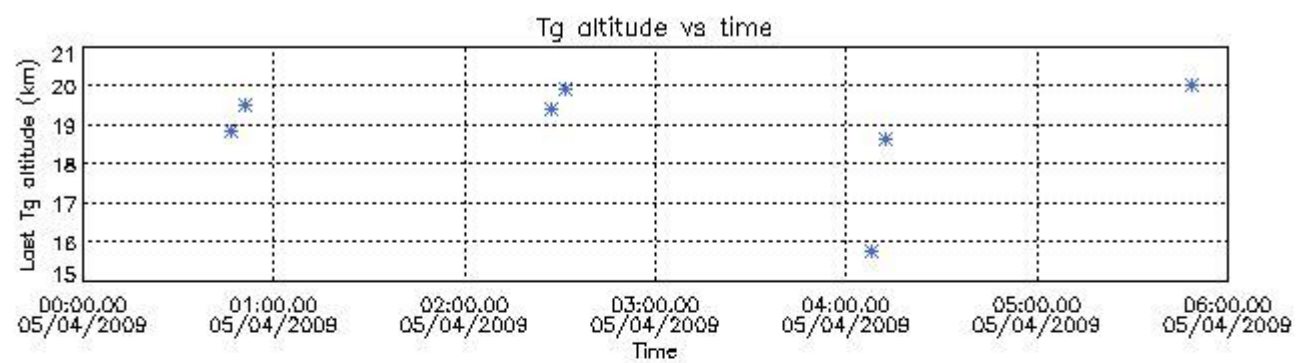
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.880	19.138	NaN
St. deviation:	1.4606	5.7608	NaN
Maximum:	20.050	26.649	NaN
Minimum:	15.778	2.9676	NaN
Number of data:	7.0000	31.000	NaN

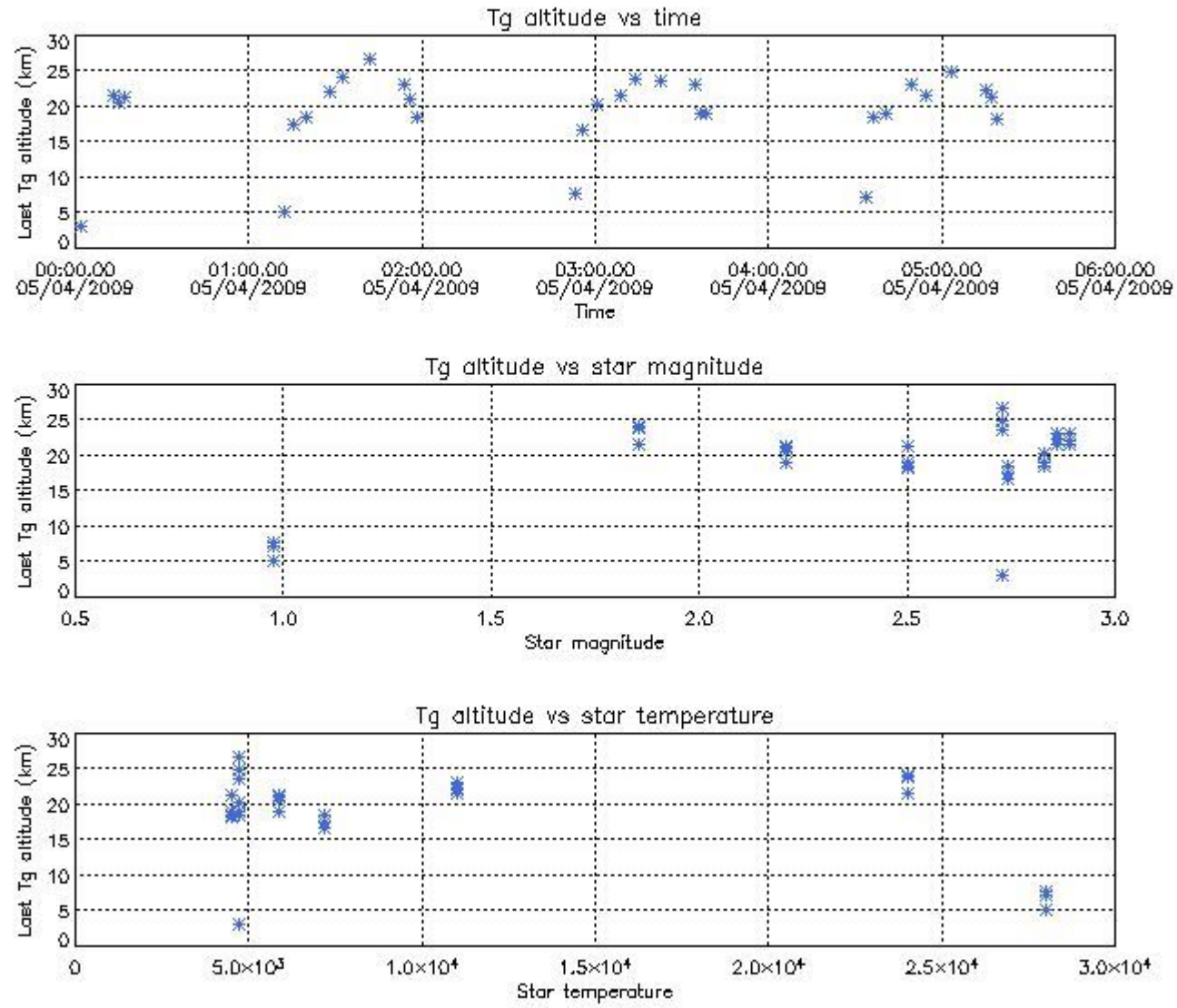
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

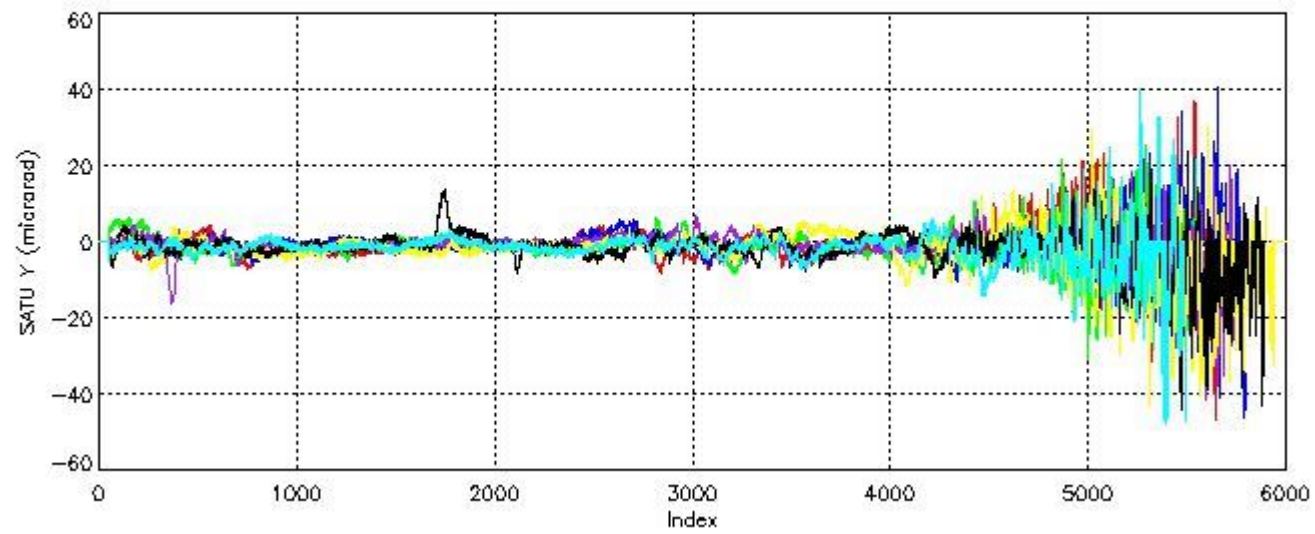
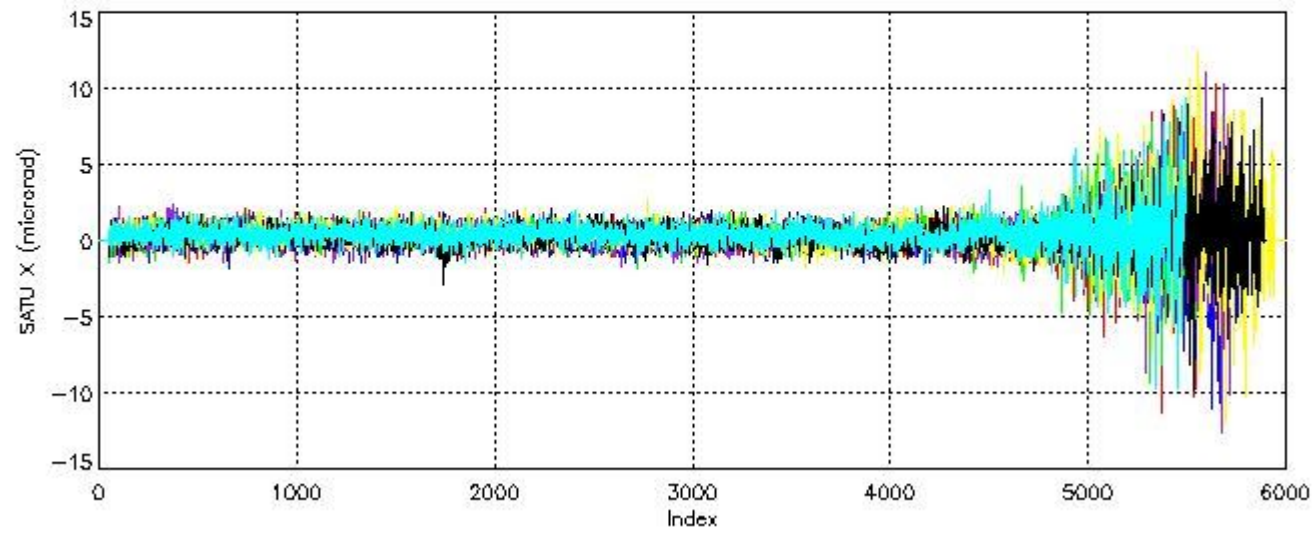


7. Star Acquisition and Tracking Unit (SATU)

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:	0.35301	-1.2941	0.30153	-1.2584
St. deviation:	0.50270	1.9278	0.82917	1.6341
Maximum:	2.4000	6.1000	6.8000	7.2000
Minimum:	-1.9000	-16.100	-5.1000	-10.000

Number of data:	9550.0	9550.0	32350.	32350.
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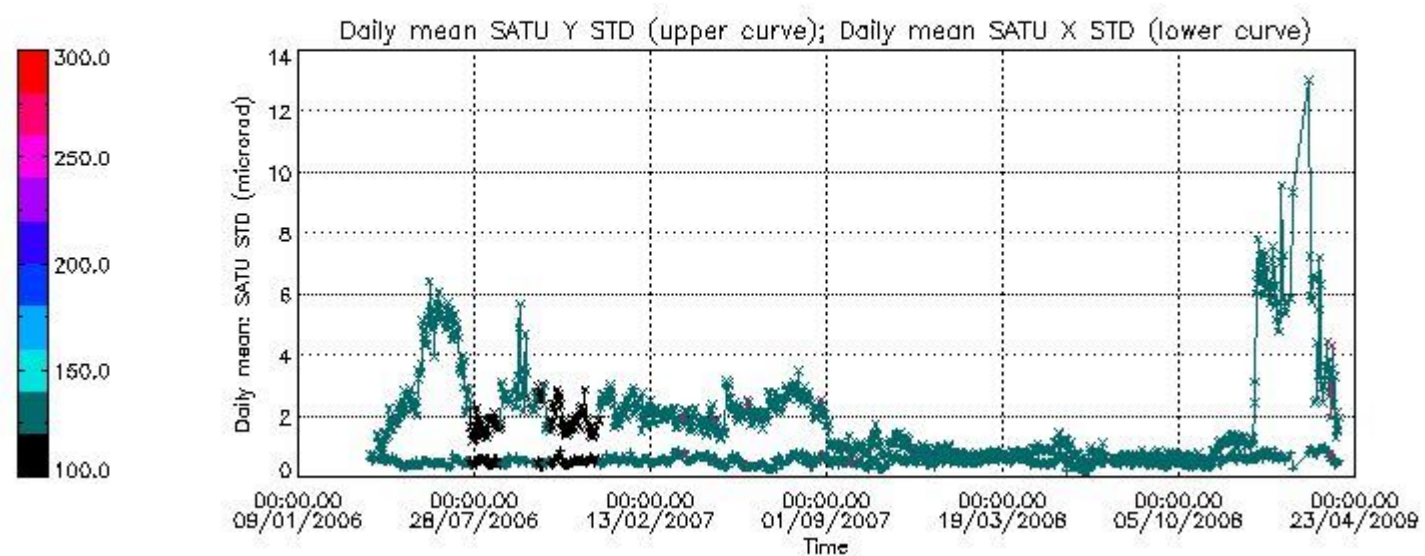
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

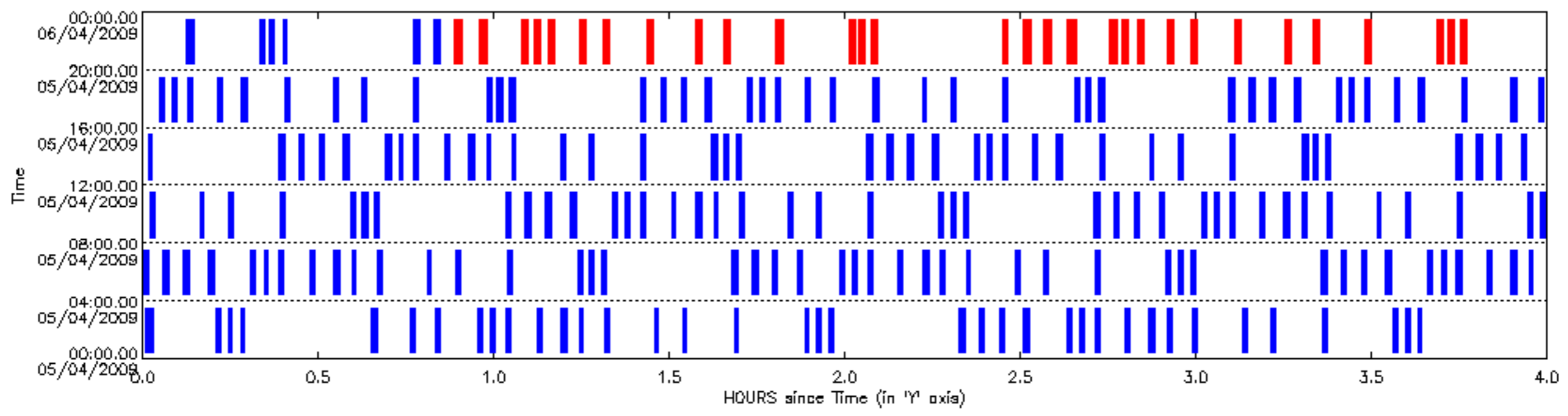
Lower curve: STD of SATU X axis

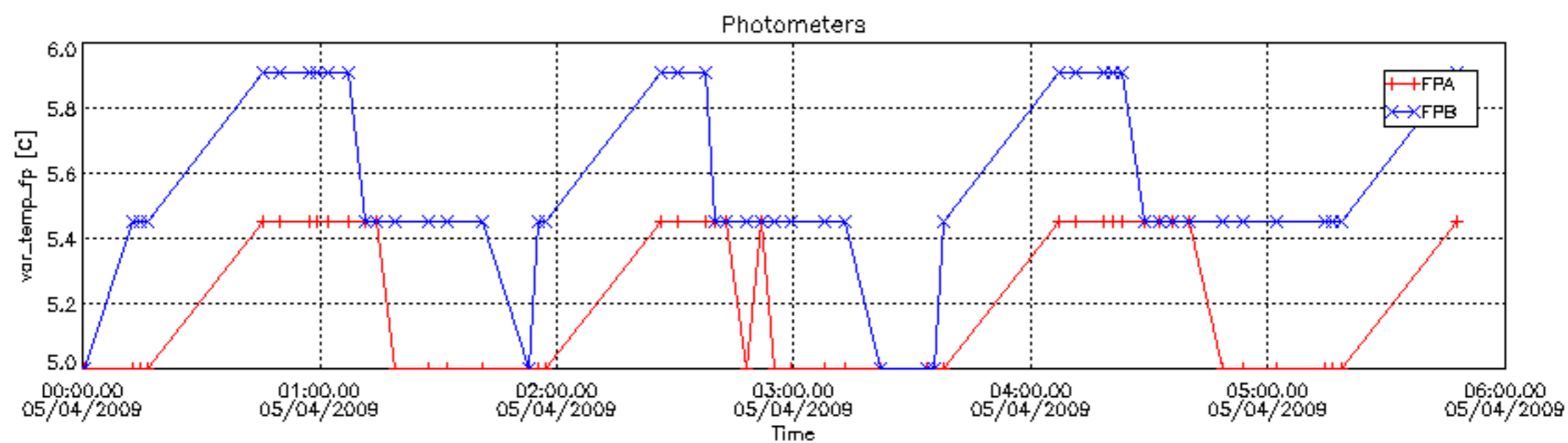
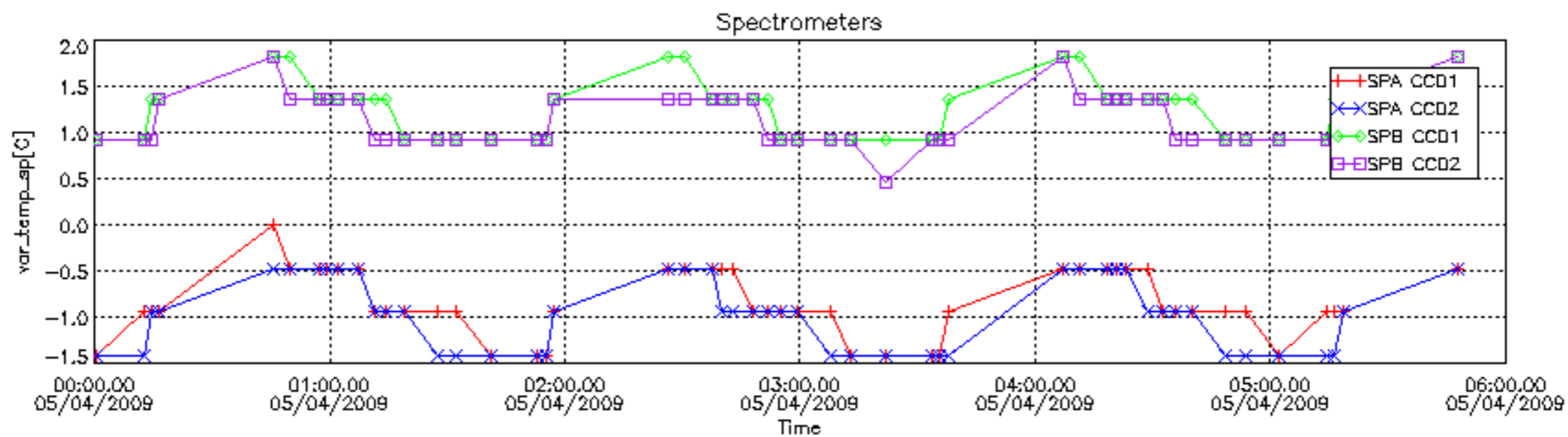


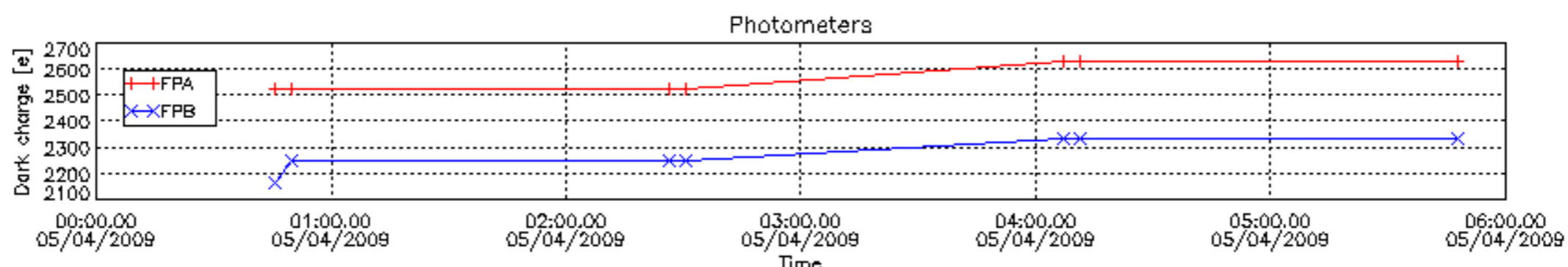
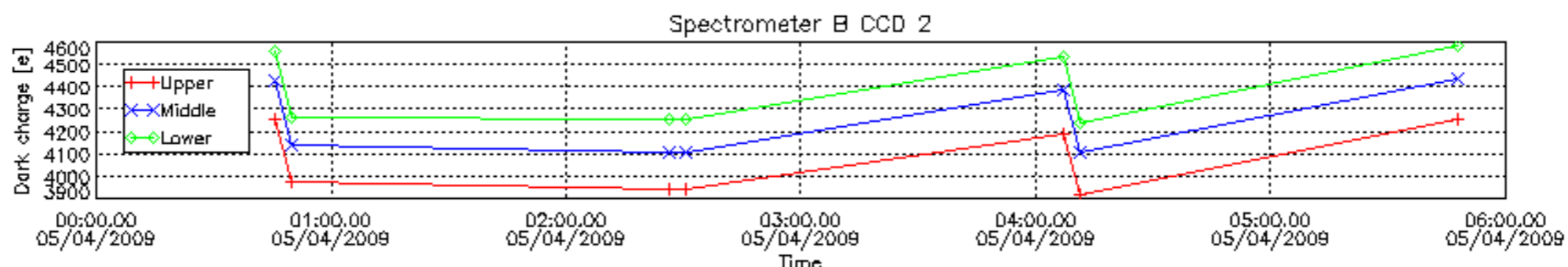
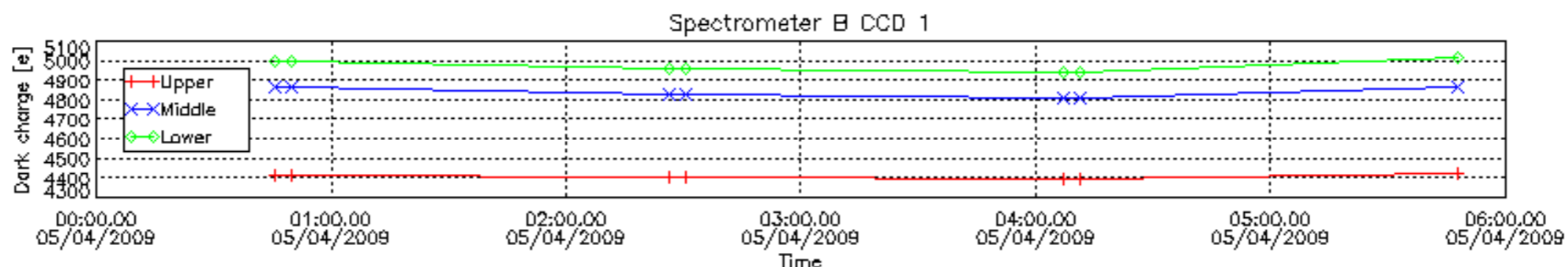
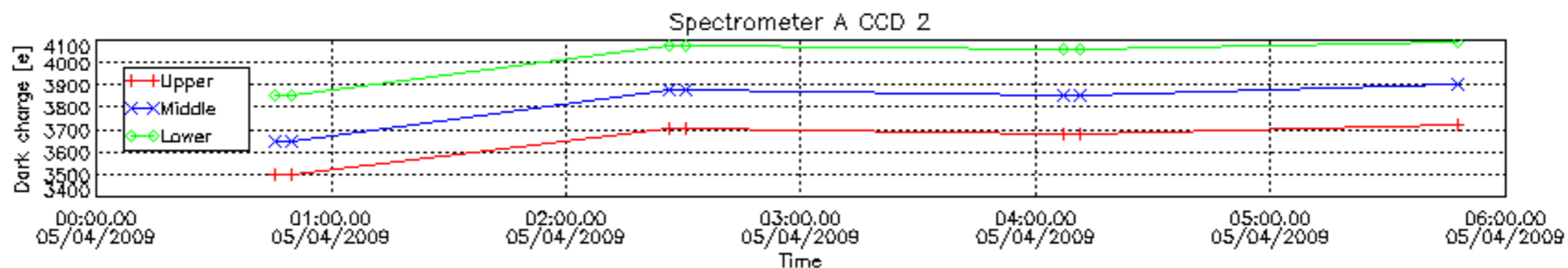
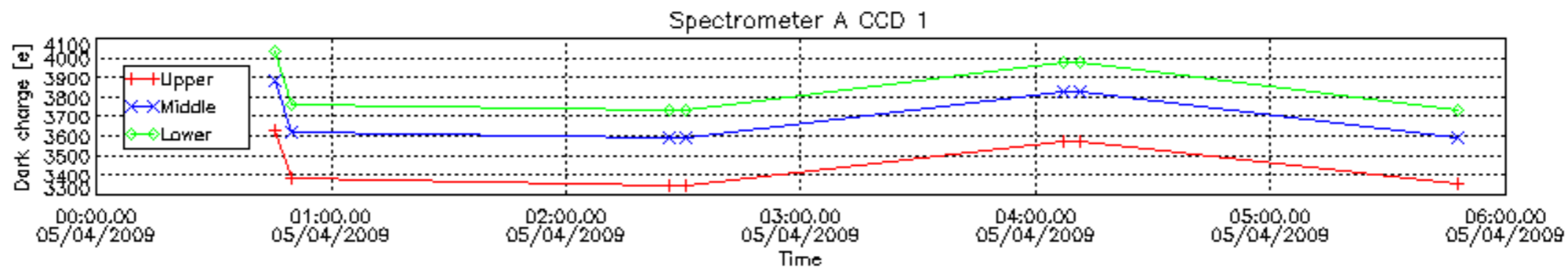
8. Auxiliary Data Files used for the production reported in section 2.4

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.

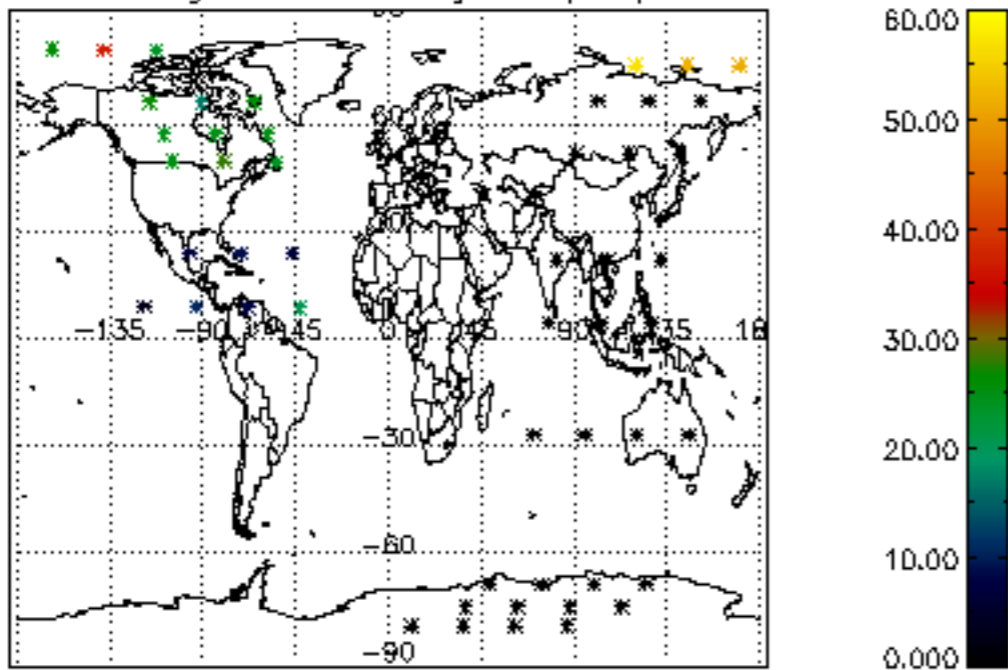
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	05-APR-2009 00:00:28
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090323_082818_20090321_000000_20100101_000000	1	05-APR-2009 00:00:28
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	05-APR-2009 00:00:28
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-APR-2009 00:00:28
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	05-APR-2009 00:00:28
ECMWF_FILE	AUX_ECF_AXNECM20090404_064112_20090404_210000_20090405_090000	1	05-APR-2009 00:00:28
ECMWF_FILE	AUX_ECF_AXNECM20090404_194110_20090405_030000_20090405_150000	32	05-APR-2009 03:33:40
OPTIONAL_ECMWF_FILE	MISSING	1	05-APR-2009 00:00:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090404_210311_000060572077_00472_37099_7689.N1	1	05-APR-2009 00:00:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090404_224927_000057382077_00473_37100_7690.N1	5	05-APR-2009 00:45:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090405_003024_000054192077_00474_37101_7691.N1	20	05-APR-2009 02:26:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090405_020603_000044632077_00475_37102_7692.N1	32	05-APR-2009 03:33:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090405_032544_000054192077_00476_37103_7693.N1	47	05-APR-2009 05:14:16



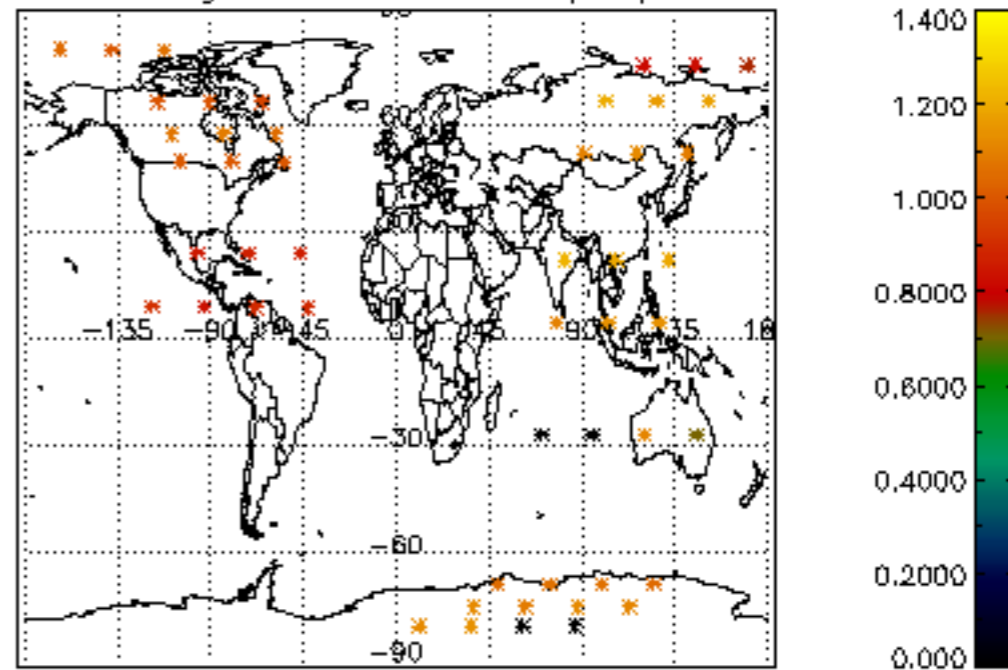




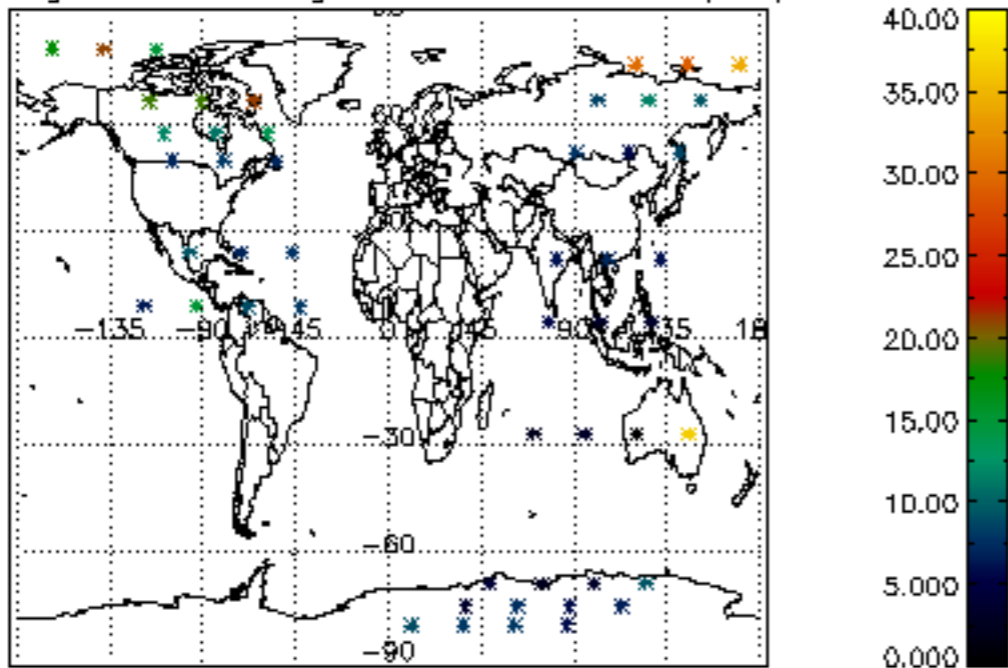
Percentage of cosmic ray hits per profile



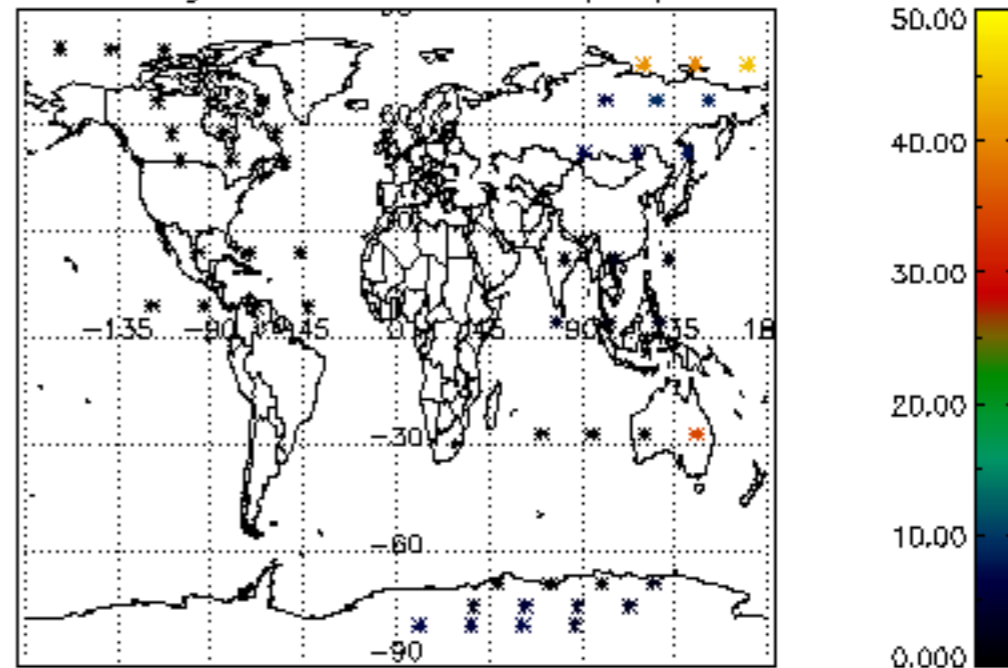
Percentage of datation errors per profile



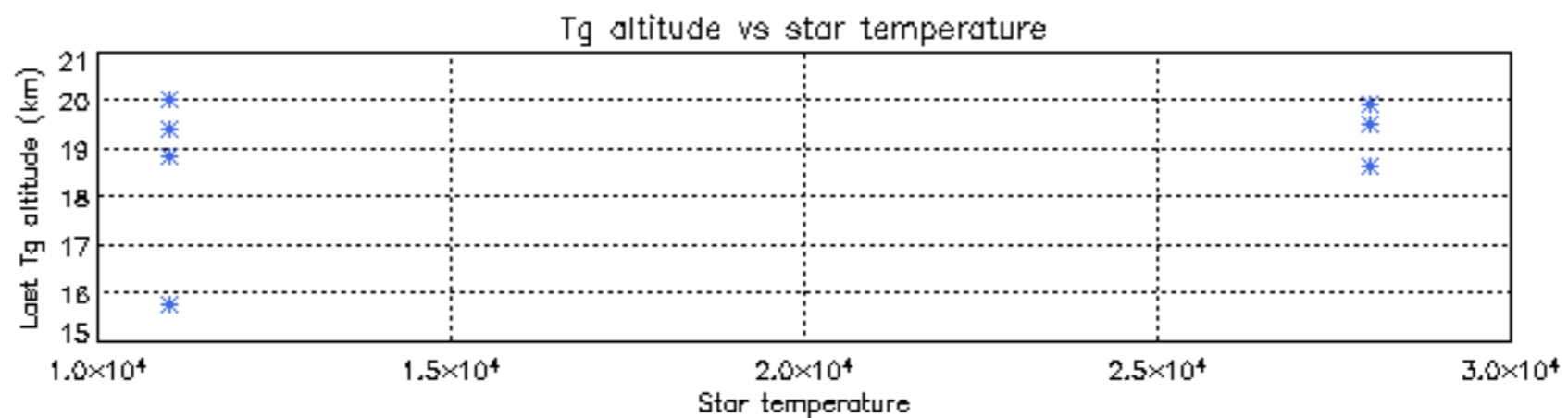
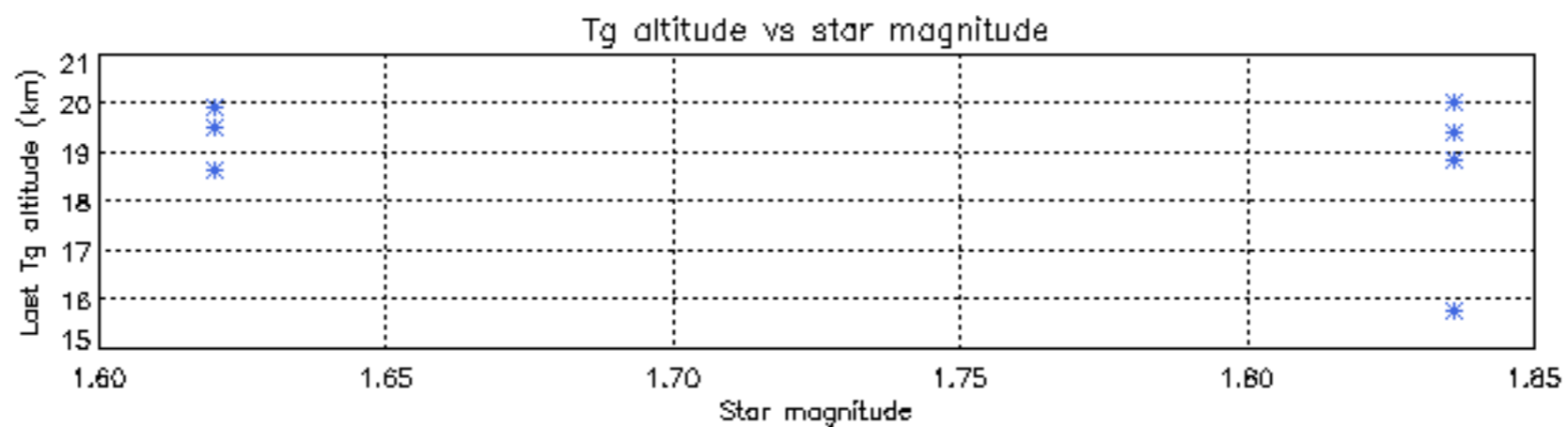
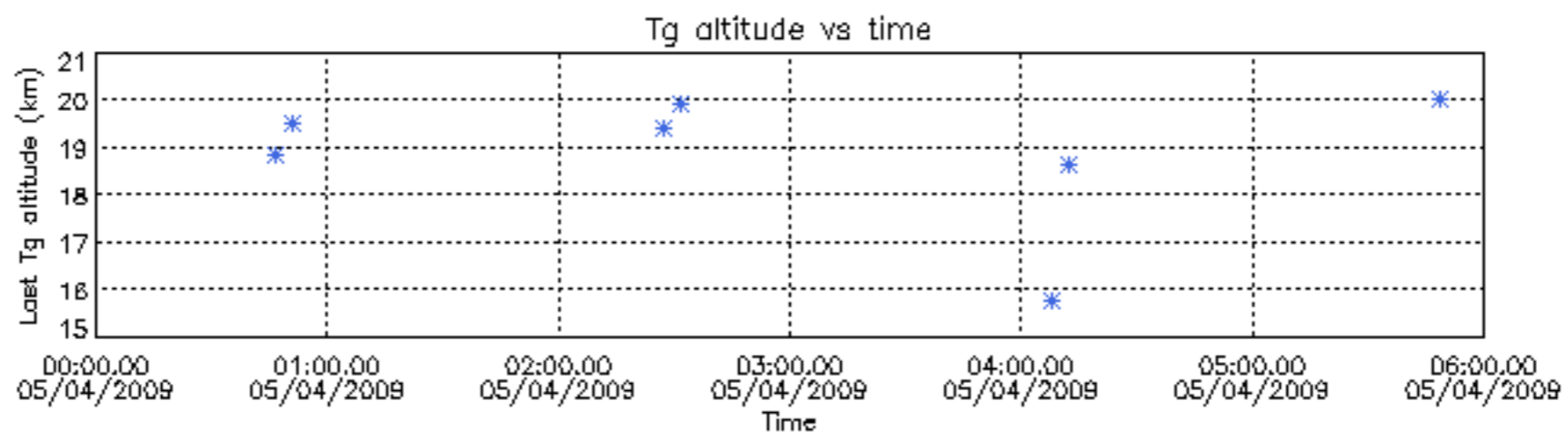
Percentage of star falling outside central band per profile



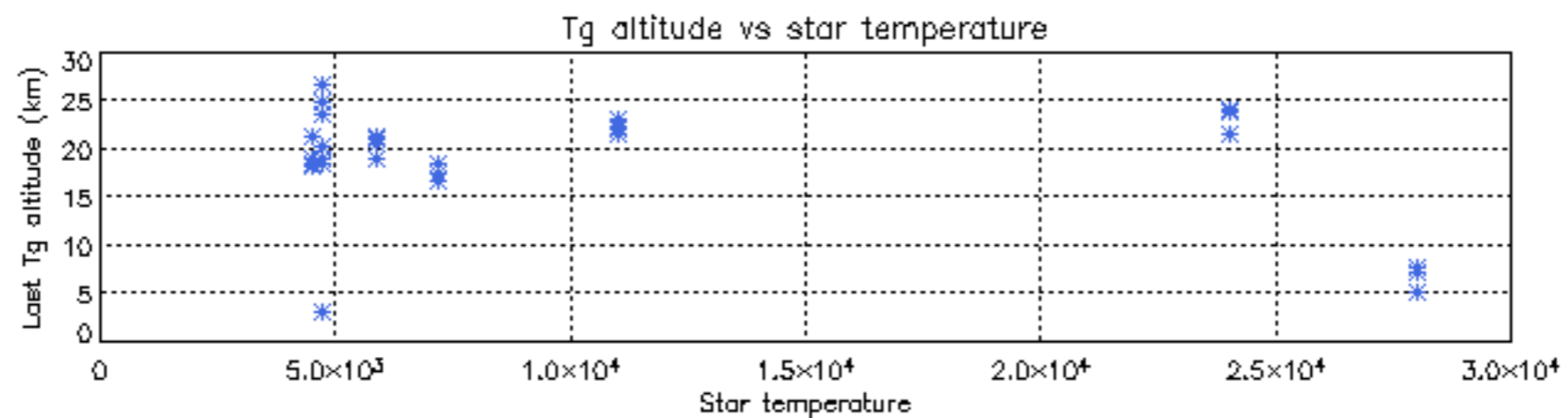
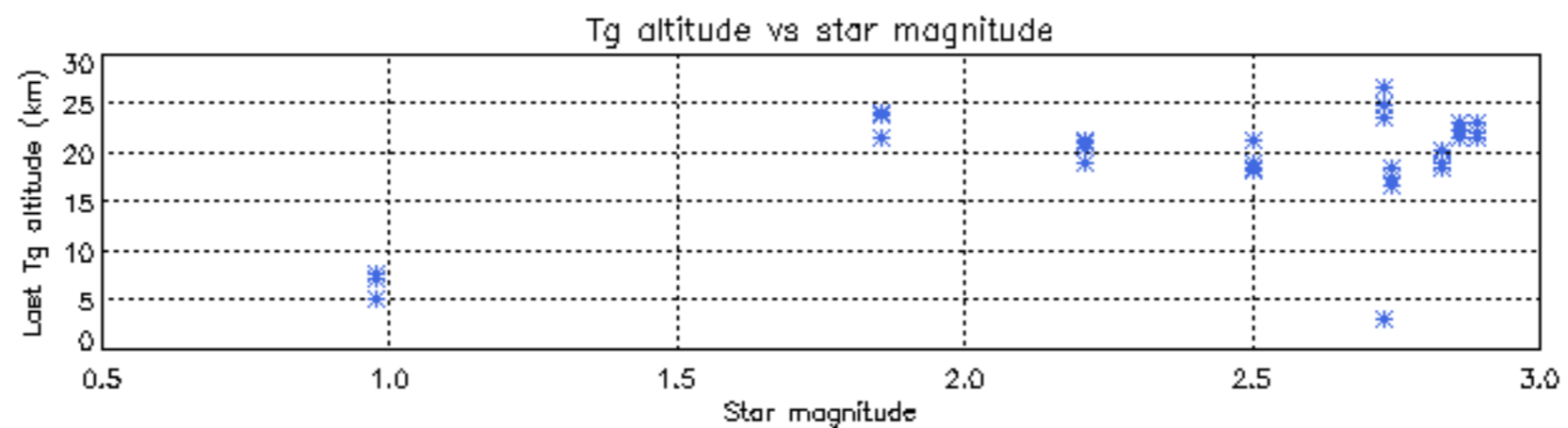
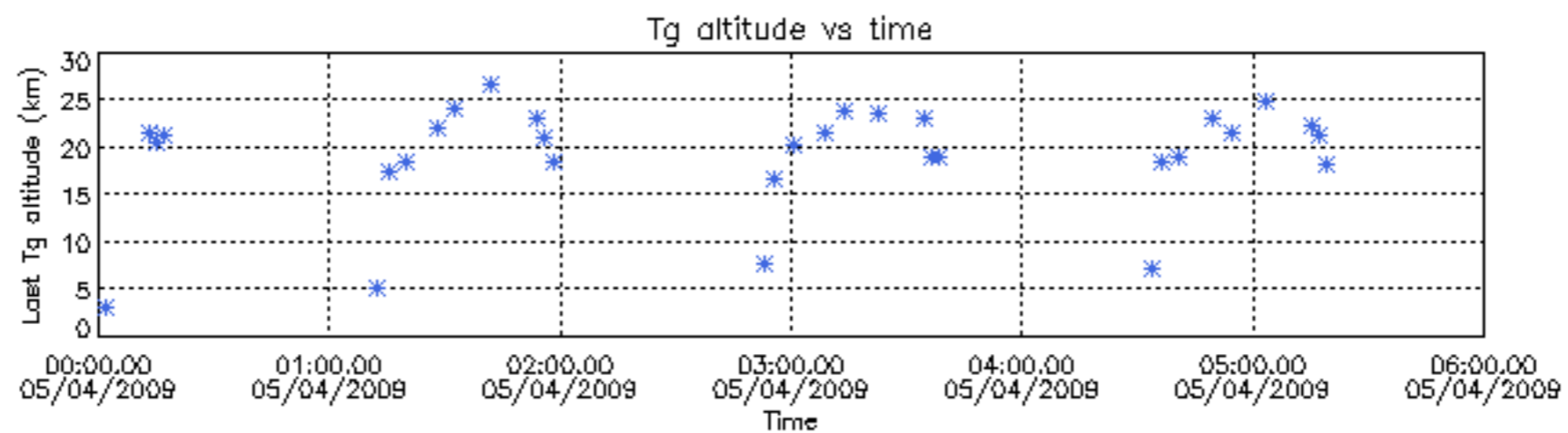
Percentage of saturation errors per profile

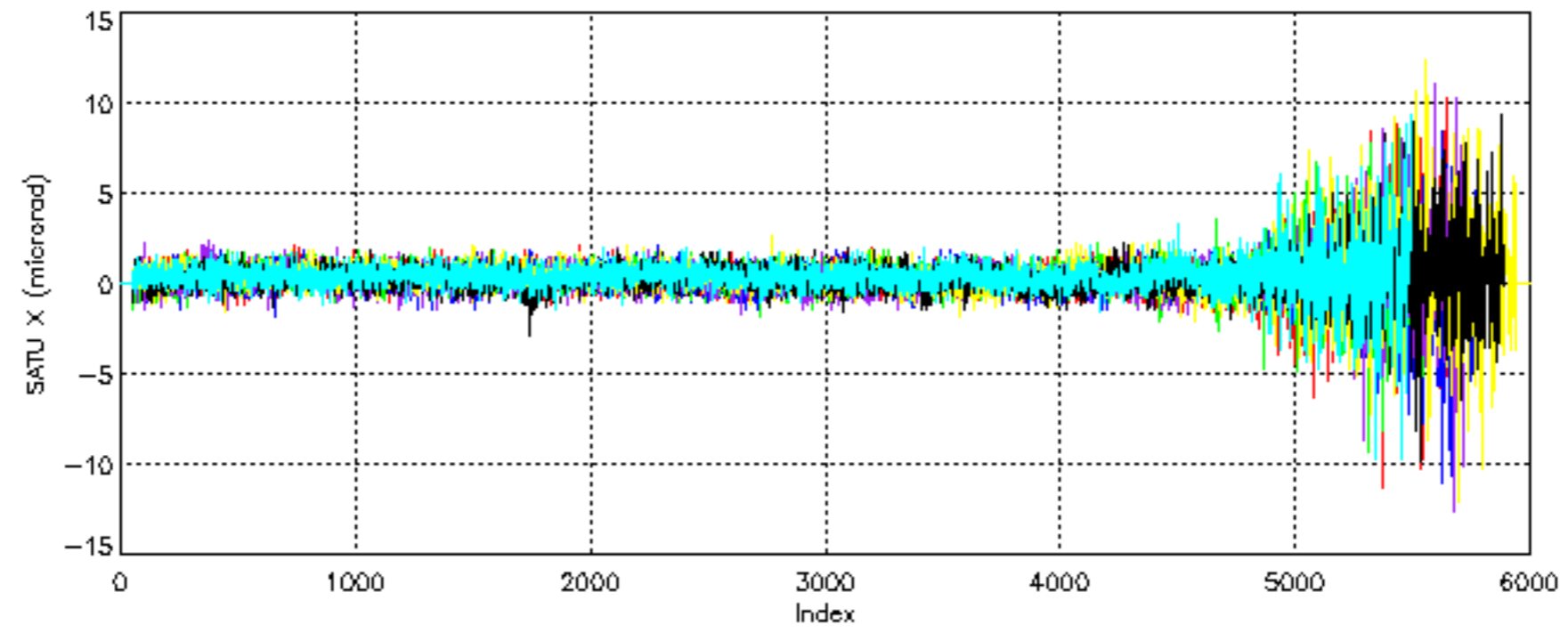


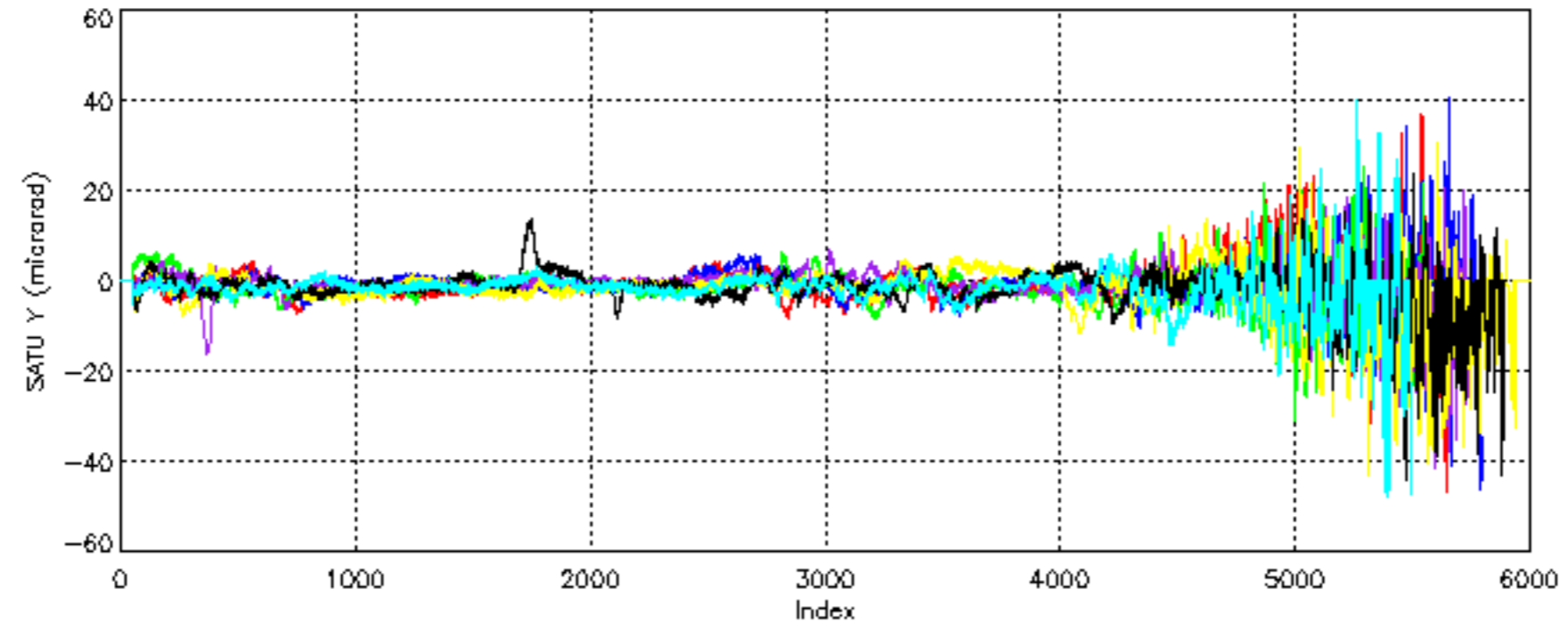
Tangent altitude at which the star is lost

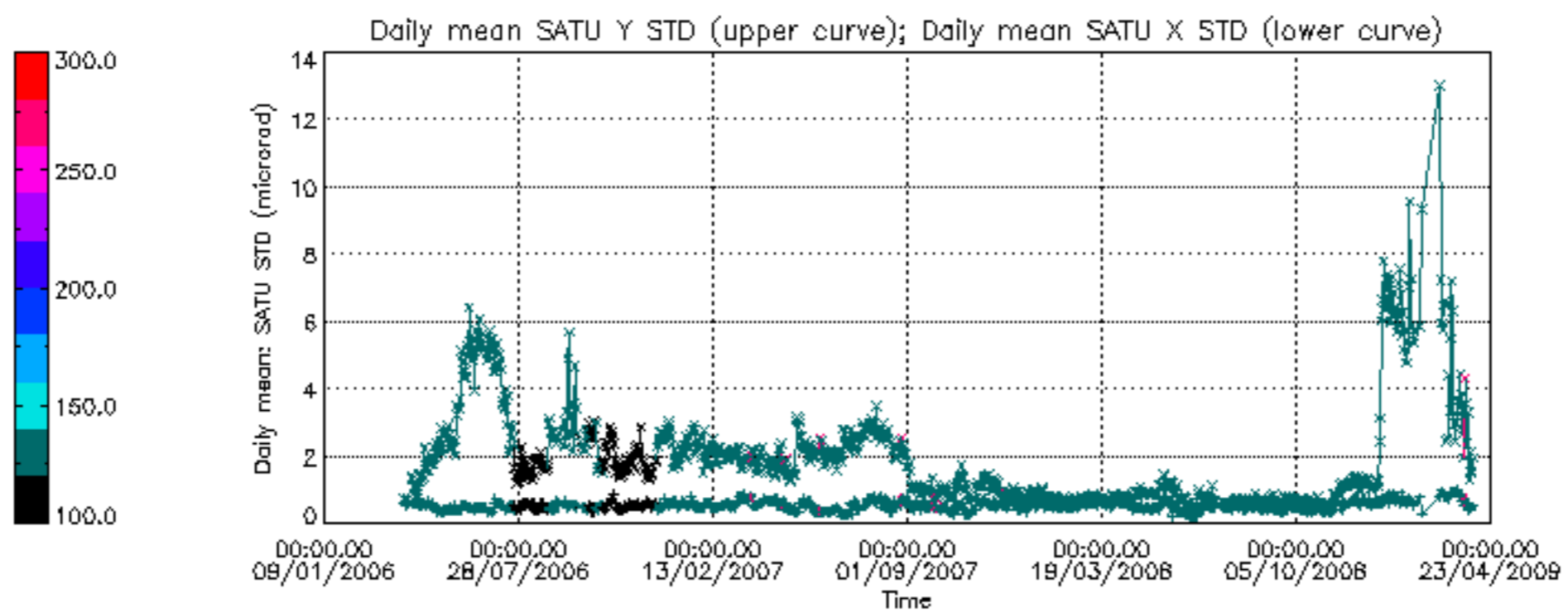


Tangent altitude at which the star is lost









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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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 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
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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
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 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
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 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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 3; 4312.8; 01-APR-2009 17:26:23; Bright; 43.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 87; 0;37054
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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
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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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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
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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
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 3; 2696.0; 23-APR-2009 10:25:41; Bright; 43.0; 180; 27Gam Boo ; 3.04; 8000;occ; 86; 0;37365
 4; 3280.7; 23-APR-2009 10:35:26; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37365

5; 3857.0; 23-APR-2009 10:45:02; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;37365
6; 4173.1; 23-APR-2009 10:50:19; Bright; 52.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 105; 0;37365
7; 4957.1; 23-APR-2009 11:03:23; Dark ; 57.5; 61; 8Eps Peg ; 2.10; 3900;occ; 115; 0;37365
8; 5104.9; 23-APR-2009 11:05:50; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37365
9; 5290.0; 23-APR-2009 11:08:55; Dark ; 54.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 109; 0;37365
10; 5450.1; 23-APR-2009 11:11:36; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37365
11; 6682.9; 23-APR-2009 11:32:08; Dark ; 53.5; 40; The Sco ; 1.86; 7100;occ; 107; 0;37365
12; 6776.5; 23-APR-2009 11:33:42; Dark ; 67.0; 25; 35Lam Sco ; 1.62; 28000;occ; 134; 0;37365
13; 6990.0; 23-APR-2009 11:37:15; Dark ; 63.0; 75; 26Eps Sco ; 2.29; 4250;occ; 126; 0;37365
14; 7311.3; 23-APR-2009 11:42:37; Dark ; 40.0; 158; 6Pi Sco ; 2.91; 28000;occ; 80; 0;37365
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3; 2524.6; 23-APR-2009 12:03:26; Bright; 50.5; 83; ; 2.38; 11000;occ; 101; 0;37366
4; 2695.2; 23-APR-2009 12:06:16; Bright; 44.5; 180; 27Gam Boo ; 3.04; 8000;occ; 89; 0;37366
5; 3279.8; 23-APR-2009 12:16:01; Bright; 47.0; 119; 14Eta Dra ; 2.73; 4700;occ; 94; 0;37366
6; 3856.8; 23-APR-2009 12:25:38; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;37366
7; 4172.9; 23-APR-2009 12:30:54; Bright; 55.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 111; 0;37366
8; 4957.9; 23-APR-2009 12:43:59; Dark ; 59.5; 61; 8Eps Peg ; 2.10; 3900;occ; 119; 0;37366
9; 5105.4; 23-APR-2009 12:46:27; Dark ; 50.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 100; 0;37366
10; 5291.1; 23-APR-2009 12:49:32; Dark ; 54.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 109; 0;37366
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3; 2524.0; 23-APR-2009 13:44:01; Bright; 48.5; 83; ; 2.38; 11000;occ; 97; 0;37367
4; 2694.6; 23-APR-2009 13:46:52; Bright; 45.0; 180; 27Gam Boo ; 3.04; 8000;occ; 90; 0;37367
5; 3279.2; 23-APR-2009 13:56:36; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37367
6; 3856.6; 23-APR-2009 14:06:14; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;37367
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9; 5106.1; 23-APR-2009 14:27:03; Dark ; 50.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 100; 0;37367
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14; 6991.9; 23-APR-2009 14:58:29; Dark ; 67.5; 75; 26Eps Sco ; 2.29; 4250;occ; 135; 0;37367
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3; 2258.6; 23-APR-2009 15:20:12; Bright; 41.0; 111; 8Eta Boo ; 2.68; 6000;occ; 82; 0;37368
4; 2523.2; 23-APR-2009 15:24:36; Bright; 51.0; 83; ; 2.38; 11000;occ; 102; 0;37368
5; 2694.0; 23-APR-2009 15:27:27; Bright; 45.0; 180; 27Gam Boo ; 3.04; 8000;occ; 90; 0;37368
6; 3278.8; 23-APR-2009 15:37:12; Bright; 46.5; 119; 14Eta Dra ; 2.73; 4700;occ; 93; 0;37368
7; 3856.2; 23-APR-2009 15:46:49; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;37368
8; 4172.4; 23-APR-2009 15:52:05; Bright; 56.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 113; 0;37368
9; 4959.1; 23-APR-2009 16:05:12; Dark ; 55.5; 61; 8Eps Peg ; 2.10; 3900;occ; 111; 0;37368
10; 5106.6; 23-APR-2009 16:07:40; Dark ; 49.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 99; 0;37368
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13; 6685.8; 23-APR-2009 16:33:59; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;37368
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16; 7313.2; 23-APR-2009 16:44:26; Dark ; 12.5; 158; 6Pi Sco ; 2.91; 28000;occ; 25; 0;37368

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3; 2258.4; 23-APR-2009 17:00:47; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;37369
4; 2522.4; 23-APR-2009 17:05:11; Bright; 52.0; 83; ; 2.38; 11000;occ; 104; 0;37369
5; 2693.6; 23-APR-2009 17:08:03; Bright; 45.5; 180; 27Gam Boo ; 3.04; 8000;occ; 91; 0;37369
6; 3277.9; 23-APR-2009 17:17:47; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;37369
7; 3855.9; 23-APR-2009 17:27:25; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;37369

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9; 4959.6; 23-APR-2009 17:45:49; Dark ; 59.5; 61; 8Eps Peg ; 2.10; 3900;occ; 119; 0;37369
10; 5107.3; 23-APR-2009 17:48:16; Dark ; 49.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 99; 0;37369
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12; 5453.8; 23-APR-2009 17:54:03; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37369
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14; 6781.1; 23-APR-2009 18:16:10; Dark ; 59.5; 25; 35Lam Sco ; 1.62; 28000;occ; 119; 0;37369
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3; 1580.1; 23-APR-2009 18:30:05; Bright; 49.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 98; 0;37370
4; 2257.9; 23-APR-2009 18:41:23; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;37370
5; 2521.4; 23-APR-2009 18:45:47; Bright; 49.0; 83; ; 2.38; 11000;occ; 98; 0;37370
6; 2692.6; 23-APR-2009 18:48:38; Bright; 44.5; 180; 27Gam Boo ; 3.04; 8000;occ; 89; 0;37370
7; 3277.3; 23-APR-2009 18:58:22; Bright; 46.0; 119; 14Eta Dra ; 2.73; 4700;occ; 92; 0;37370
8; 3855.9; 23-APR-2009 19:08:01; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;37370
9; 4171.8; 23-APR-2009 19:13:17; Bright; 75.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 150; 0;37370
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11; 5107.7; 23-APR-2009 19:28:53; Dark ; 50.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 101; 0;37370
12; 5294.7; 23-APR-2009 19:32:00; Dark ; 51.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 103; 0;37370
13; 5454.7; 23-APR-2009 19:34:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37370
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3; 654.9; 24-APR-2009 00:57:04; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;37374
4; 749.7; 24-APR-2009 00:58:38; Dark ; 21.0; 25; 35Lam Sco ; 1.62; 28000;occ; 42; 0;37374
5; 961.0; 24-APR-2009 01:02:10; Dark ; 64.0; 75; 26Eps Sco ; 2.29; 4250;occ; 128; 0;37374
6; 1279.4; 24-APR-2009 01:07:28; Dark ; 56.0; 158; 6Pi Sco ; 2.91; 28000;occ; 112; 0;37374
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9; 2518.4; 24-APR-2009 01:28:07; Bright; 52.0; 83; ; 2.38; 11000;occ; 104; 0;37374
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12; 3854.7; 24-APR-2009 01:50:23; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;37374
13; 4170.7; 24-APR-2009 01:55:39; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;37374
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3; -737.8; 24-APR-2009 02:14:27; Dark ; 47.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 94; 0;37374
4; -577.8; 24-APR-2009 02:17:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37374
5; 655.9; 24-APR-2009 02:37:41; Dark ; 59.0; 40; The Sco ; 1.86; 7100;occ; 118; 0;37375
6; 750.8; 24-APR-2009 02:39:15; Dark ; 63.5; 25; 35Lam Sco ; 1.62; 28000;occ; 127; 0;37375
7; 962.1; 24-APR-2009 02:42:47; Dark ; 68.5; 75; 26Eps Sco ; 2.29; 4250;occ; 137; 0;37375
8; 1279.8; 24-APR-2009 02:48:04; Dark ; 56.0; 158; 6Pi Sco ; 2.91; 28000;occ; 112; 0;37375
9; 1580.5; 24-APR-2009 02:53:05; Bright; 52.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 105; 0;37375
10; 2256.4; 24-APR-2009 03:04:21; Bright; 42.5; 111; 8Eta Boo ; 2.68; 6000;occ; 85; 0;37375
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12; 2689.3; 24-APR-2009 03:11:34; Bright; 43.5; 180; 27Gam Boo ; 3.04; 8000;occ; 87; 0;37375
13; 3273.9; 24-APR-2009 03:21:19; Bright; 45.5; 119; 14Eta Dra ; 2.73; 4700;occ; 91; 0;37375
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4; -925.3; 24-APR-2009 03:51:55; Dark ; 48.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 97; 0;37375
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6; -576.8; 24-APR-2009 03:57:44; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37375
7; 656.9; 24-APR-2009 04:18:18; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;37376
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13; 2517.0; 24-APR-2009 04:49:18; Bright; 50.5; 83; ; 2.38; 11000;occ; 101; 0;37376
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3; 1285.4; 24-APR-2009 21:14:45; Dark ; 56.0; 158; 6Pi Sco ; 2.91; 28000;occ; 112; 0;37386
4; 1581.6; 24-APR-2009 21:19:42; Bright; 51.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 103; 0;37386
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4; 781.7; 26-APR-2009 01:36:32; Dark ; 63.5; 25; 35Lam Sco ; 1.62; 28000;occ; 127; 0;37403
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