

GOMOS Daily Report 05-OCT-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	08OCT2009 04:37:11
Data source version	GOMOS/5.00L03
Start time of products	05OCT2009 00:07:25
Stop time of products	05OCT2009 23:35:57
Store outputs in DB	Yes
Nb of level 1b prods	51
Nb of prods with errors	0

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

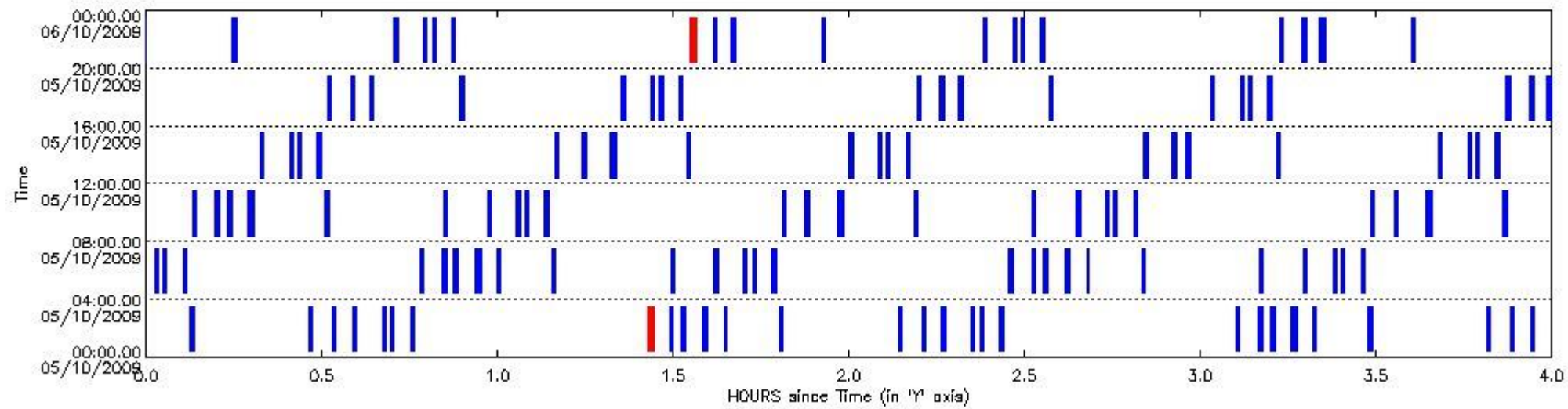
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

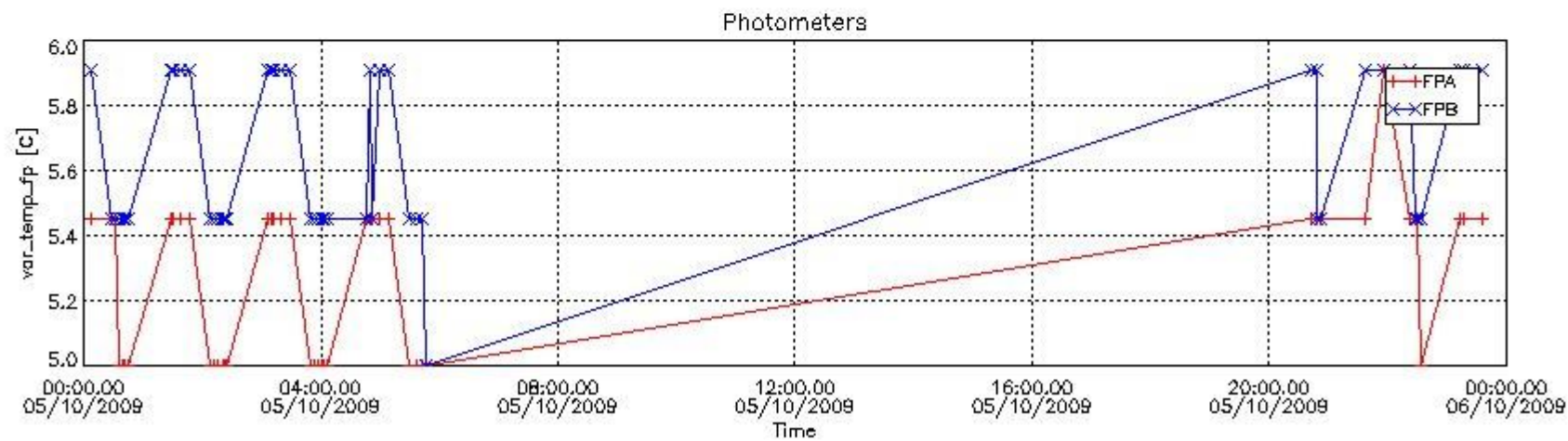
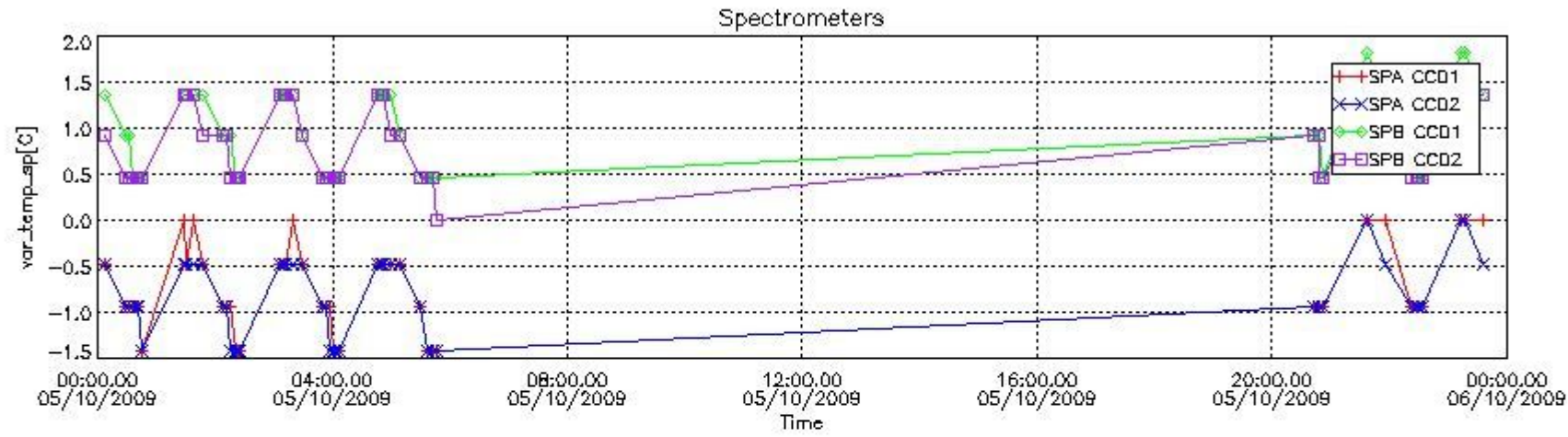
UTC start time	Star name	Star ID	Orbit
05-OCT-2009 01:25:33	15RhoPup	132	39721
05-OCT-2009 21:32:55	15RhoPup	132	39733

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_1PNPDE20091005_000725_000000402083_00088_39721_9218.N1	05-OCT-2009 00:07:25	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	39721	No
2	GOM_TRA_1PNPDE20091005_002745_000000342083_00088_39721_9219.N1	05-OCT-2009 00:27:45	Bright	34.000	140	88Gam Peg	2.8340	26000.	68	39721	No
3	GOM_TRA_1PNPDE20091005_003150_000000352083_00088_39721_9220.N1	05-OCT-2009 00:31:50	Bright	34.500	58	21Alp And	2.0730	11000.	69	39721	No
4	GOM_TRA_1PNPDE20091005_003514_000000402083_00088_39721_9221.N1	05-OCT-2009 00:35:14	Bright	39.500	53	43Bet And	2.0480	3300.0	79	39721	No
5	GOM_TRA_1PNPDE20091005_004015_000000342083_00088_39721_9222.N1	05-OCT-2009 00:40:15	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	39721	No
6	GOM_TRA_1PNPDE20091005_004141_000000342083_00088_39721_9223.N1	05-OCT-2009 00:41:41	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39721	No
7	GOM_TRA_1PNPDE20091005_004506_000000432083_00088_39721_9224.N1	05-OCT-2009 00:45:06	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	39721	No
8	GOM_TRA_1PNPDE20091005_012919_000000432083_00088_39721_9220.N1	05-OCT-2009 01:29:19	Dark	43.000	88	31Eta CMa	2.4480	20000.	86	39721	No
9	GOM_TRA_1PNPDE20091005_013115_000000482083_00088_39721_9221.N1	05-OCT-2009 01:31:15	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	39721	No

10	GOM_TRA_1PNPDE20091005_013840_000000282083_00089_39722_9222.N1	05-OCT-2009 01:38:40	Dark	28.000	108	Alp Col	2.6520	15200.	56	39722	No
11	GOM_TRA_1PNPDE20091005_014802_000000402083_00089_39722_9223.N1	05-OCT-2009 01:48:02	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	39722	No
12	GOM_TRA_1PNPDE20091005_020821_000000342083_00089_39722_9224.N1	05-OCT-2009 02:08:21	Bright	34.000	140	88Gam Peg	2.8340	26000.	68	39722	No
13	GOM_TRA_1PNPDE20091005_021226_000000342083_00089_39722_9225.N1	05-OCT-2009 02:12:26	Bright	34.000	58	21Alp And	2.0730	11000.	68	39722	No
14	GOM_TRA_1PNPDE20091005_021549_000000402083_00089_39722_9226.N1	05-OCT-2009 02:15:49	Bright	40.000	53	43Bet And	2.0480	3300.0	80	39722	No
15	GOM_TRA_1PNPDE20091005_022051_000000342083_00089_39722_9227.N1	05-OCT-2009 02:20:51	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	39722	No
16	GOM_TRA_1PNPDE20091005_022216_000000342083_00089_39722_9228.N1	05-OCT-2009 02:22:16	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39722	No
17	GOM_TRA_1PNPDE20091005_022540_000000442083_00089_39722_9229.N1	05-OCT-2009 02:25:40	Bright	43.500	160	23Gam Per	2.9300	4700.0	87	39722	No
18	GOM_TRA_1PNPDE20091005_030604_000000382083_00089_39722_9229.N1	05-OCT-2009 03:06:04	Dark	37.500	132	15Rho Pup	2.8030	6900.0	75	39722	No
19	GOM_TRA_1PNPDE20091005_030956_000000432083_00089_39722_9230.N1	05-OCT-2009 03:09:56	Dark	43.000	88	31Eta CMa	2.4480	20000.	86	39722	No
20	GOM_TRA_1PNPDE20091005_031152_000000482083_00089_39722_9231.N1	05-OCT-2009 03:11:52	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	39722	No
21	GOM_TRA_1PNPDE20091005_031917_000000282083_00090_39723_9232.N1	05-OCT-2009 03:19:17	Dark	28.000	108	Alp Col	2.6520	15200.	56	39723	No
22	GOM_TRA_1PNPDE20091005_032839_000000392083_00090_39723_9233.N1	05-OCT-2009 03:28:39	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	39723	No
23	GOM_TRA_1PNPDE20091005_034857_000000342083_00090_39723_9234.N1	05-OCT-2009 03:48:57	Bright	33.500	140	88Gam Peg	2.8340	26000.	67	39723	No
24	GOM_TRA_1PNPDE20091005_035303_000000332083_00090_39723_9235.N1	05-OCT-2009 03:53:03	Bright	32.500	58	21Alp And	2.0730	11000.	65	39723	No
25	GOM_TRA_1PNPDE20091005_035624_000000402083_00090_39723_9236.N1	05-OCT-2009 03:56:24	Bright	40.000	53	43Bet And	2.0480	3300.0	80	39723	No
26	GOM_TRA_1PNPDE20091005_040127_000000342083_00090_39723_9237.N1	05-OCT-2009 04:01:27	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	39723	No
27	GOM_TRA_1PNPDE20091005_040252_000000342083_00090_39723_9238.N1	05-OCT-2009 04:02:52	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39723	No
28	GOM_TRA_1PNPDE20091005_040615_000000442083_00090_39723_9239.N1	05-OCT-2009 04:06:15	Bright	43.500	160	23Gam Per	2.9300	4700.0	87	39723	No
29	GOM_TRA_1PNPDE20091005_044641_000000382083_00090_39723_9236.N1	05-OCT-2009 04:46:41	Dark	37.500	132	15Rho Pup	2.8030	6900.0	75	39723	No
30	GOM_TRA_1PNPDE20091005_045033_000000432083_00090_39723_9237.N1	05-OCT-2009 04:50:33	Dark	43.000	88	31Eta CMa	2.4480	20000.	86	39723	No
31	GOM_TRA_1PNPDE20091005_045230_000000482083_00090_39723_9238.N1	05-OCT-2009 04:52:30	Dark	48.000	23	21Eps CMa	1.5020	26000.	96	39723	No
32	GOM_TRA_1PNPDE20091005_045955_000000262083_00091_39724_9239.N1	05-OCT-2009 04:59:55	Dark	26.000	108	Alp Col	2.6520	15200.	52	39724	No
33	GOM_TRA_1PNPDE20091005_050915_000000402083_00091_39724_9240.N1	05-OCT-2009 05:09:15	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	39724	No
34	GOM_TRA_1PNPDE20091005_052933_000000342083_00091_39724_9241.N1	05-OCT-2009 05:29:33	Bright	33.500	140	88Gam Peg	2.8340	26000.	67	39724	No
35	GOM_TRA_1PNPDE20091005_053659_000000402083_00091_39724_9242.N1	05-OCT-2009 05:36:59	Bright	40.000	53	43Bet And	2.0480	3300.0	80	39724	No
36	GOM_TRA_1PNPDE20091005_054202_000000342083_00091_39724_9243.N1	05-OCT-2009 05:42:02	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	39724	No
37	GOM_TRA_1PNPDE20091005_054327_000000342083_00091_39724_9244.N1	05-OCT-2009 05:43:27	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39724	No
38	GOM_TRA_1PNPDE20091005_054650_000000432083_00091_39724_9245.N1	05-OCT-2009 05:46:50	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	39724	No
39	GOM_TRA_1PNPDE20091005_204218_000000392083_00100_39733_9307.N1	05-OCT-2009 20:42:18	Bright	38.500	53	43Bet And	2.0480	3300.0	77	39733	No
40	GOM_TRA_1PNPDE20091005_204723_000000342083_00100_39733_9308.N1	05-OCT-2009 20:47:23	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	39733	No
41	GOM_TRA_1PNPDE20091005_204848_000000332083_00100_39733_9309.N1	05-OCT-2009 20:48:48	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39733	No
42	GOM_TRA_1PNPDE20091005_205206_000000422083_00100_39733_9310.N1	05-OCT-2009 20:52:06	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	39733	No
43	GOM_TRA_1PNPDE20091005_213644_000000432083_00100_39733_9326.N1	05-OCT-2009 21:36:44	Dark	43.000	88	31Eta CMa	2.4480	20000.	86	39733	No
44	GOM_TRA_1PNPDE20091005_215521_000000382083_00101_39734_9327.N1	05-OCT-2009 21:55:21	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	39734	No
45	GOM_TRA_1PNPDE20091005_222253_000000392083_00101_39734_9328.N1	05-OCT-2009 22:22:53	Bright	38.500	53	43Bet And	2.0480	3300.0	77	39734	No
46	GOM_TRA_1PNPDE20091005_222758_000000342083_00101_39734_9329.N1	05-OCT-2009 22:27:58	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	39734	No
47	GOM_TRA_1PNPDE20091005_222923_000000332083_00101_39734_9330.N1	05-OCT-2009 22:29:23	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39734	No
48	GOM_TRA_1PNPDE20091005_223241_000000422083_00101_39734_9331.N1	05-OCT-2009 22:32:41	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	39734	No
49	GOM_TRA_1PNPDE20091005_231327_000000372083_00101_39734_9350.N1	05-OCT-2009 23:13:27	Dark	37.000	132	15Rho Pup	2.8030	6900.0	74	39734	No
50	GOM_TRA_1PNPDE20091005_231721_000000432083_00101_39734_9351.N1	05-OCT-2009 23:17:21	Dark	42.500	88	31Eta CMa	2.4480	20000.	85	39734	No
51	GOM_TRA_1PNPDE20091005_233557_000000382083_00102_39735_9352.N1	05-OCT-2009 23:35:57	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	39735	No

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



4. Overview of dark signal processing per product

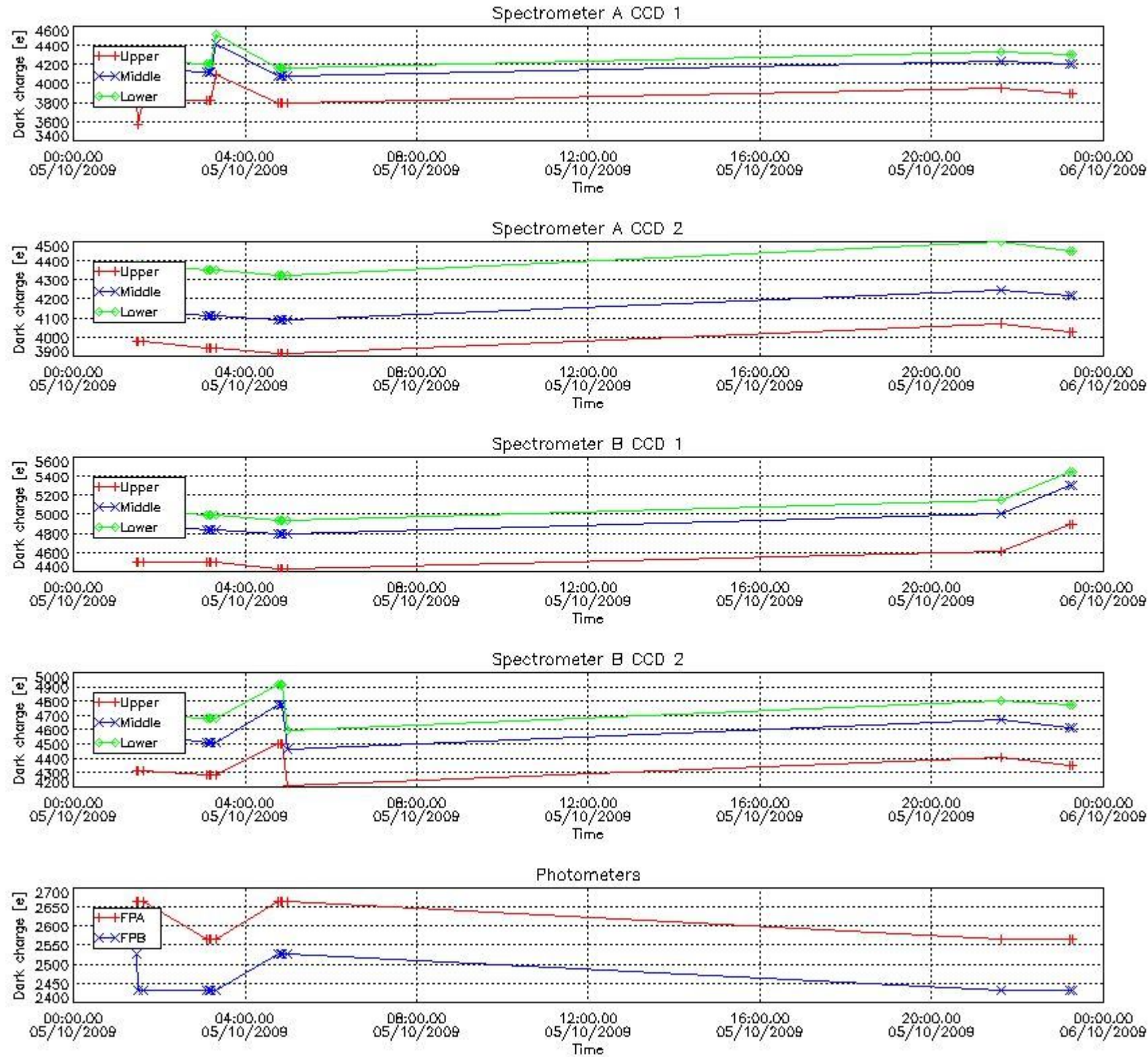
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091005_204218_000000392083_00100_39733_9307.N1	DC map used
GOM_TRA_1PNPDE20091005_204723_000000342083_00100_39733_9308.N1	DC map used
GOM_TRA_1PNPDE20091005_204848_000000332083_00100_39733_9309.N1	DC map used
GOM_TRA_1PNPDE20091005_205206_000000422083_00100_39733_9310.N1	DC map used

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



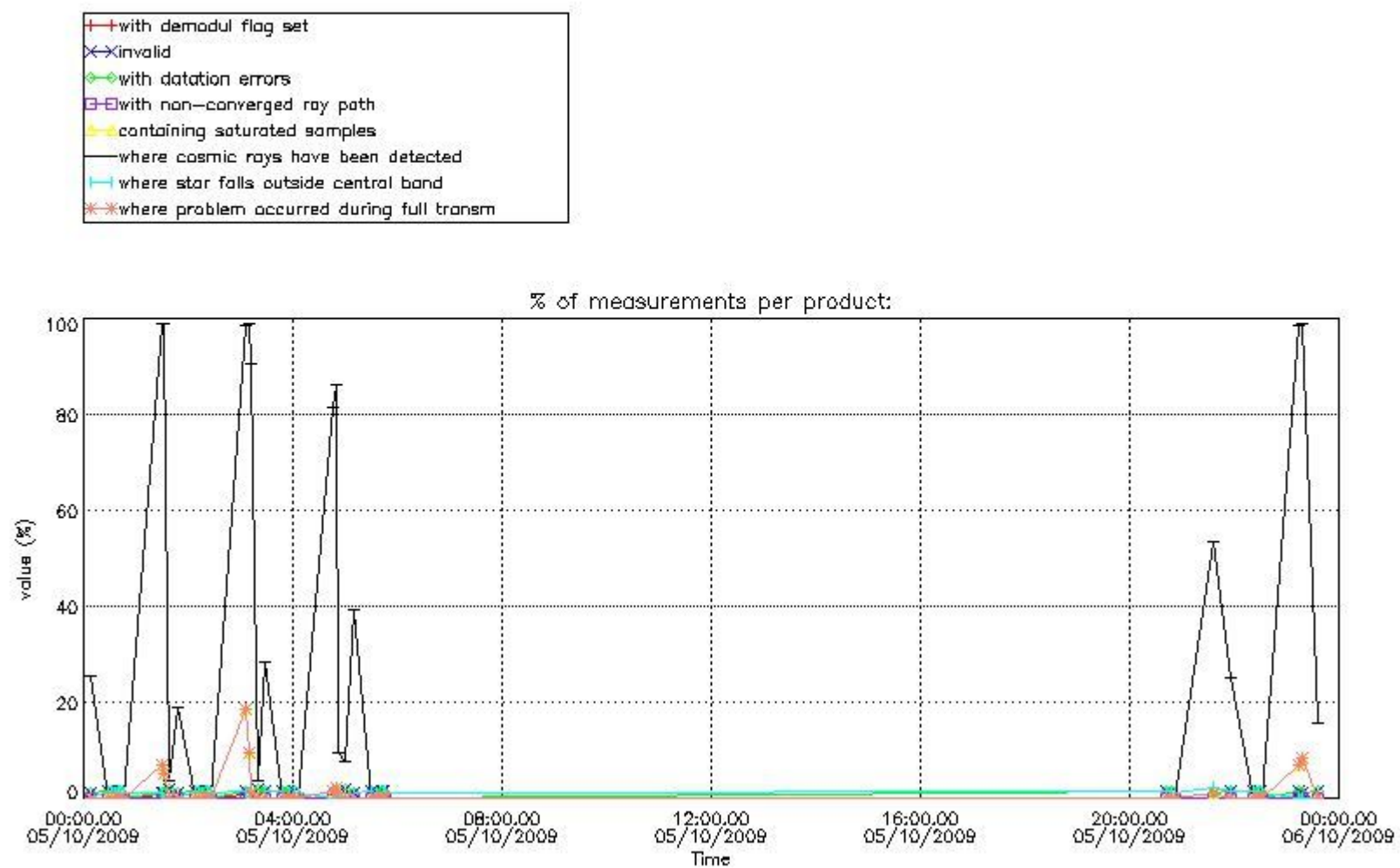
5. Demodulation flag and quality information monitoring

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.

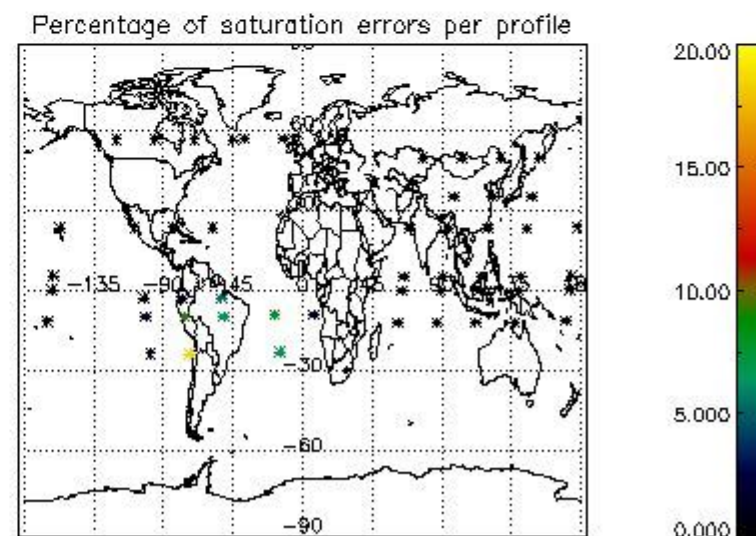
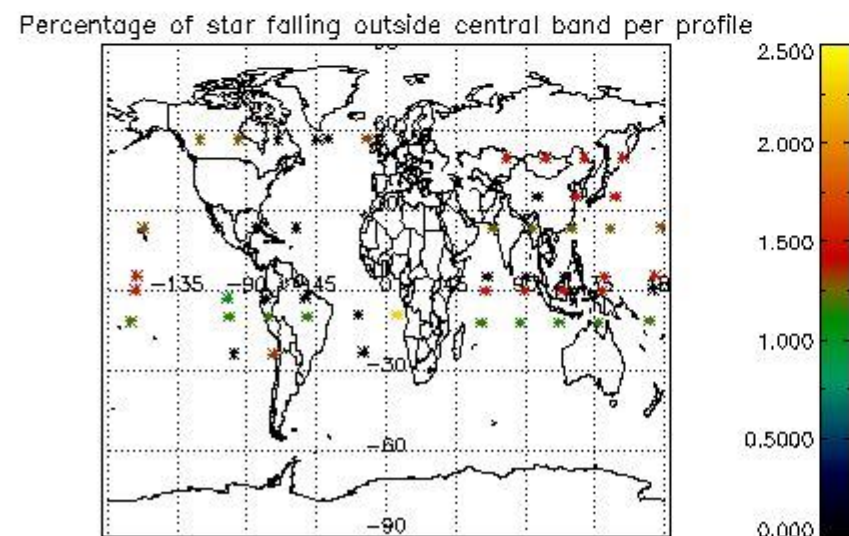
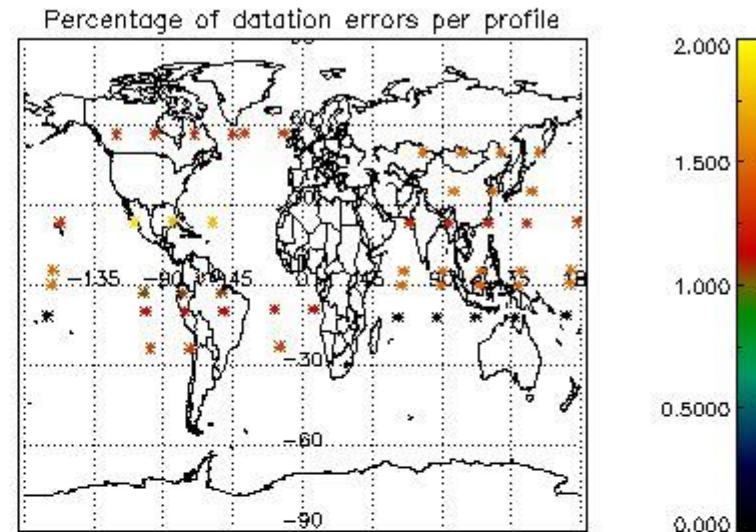
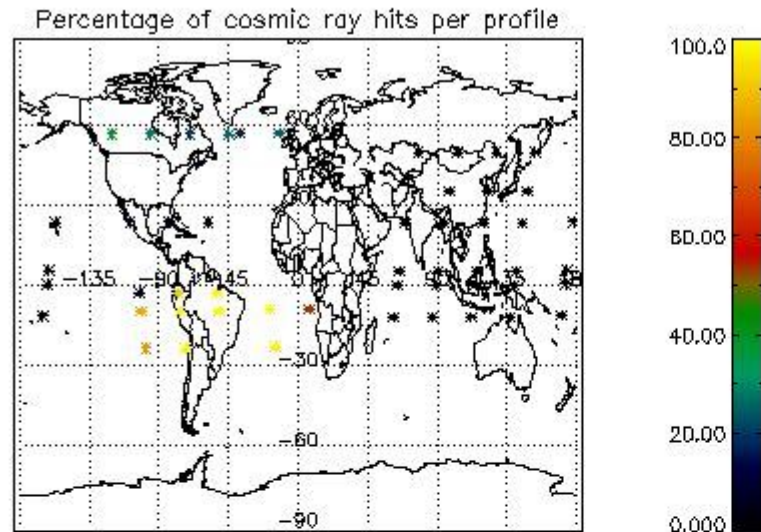
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.4902 %
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)



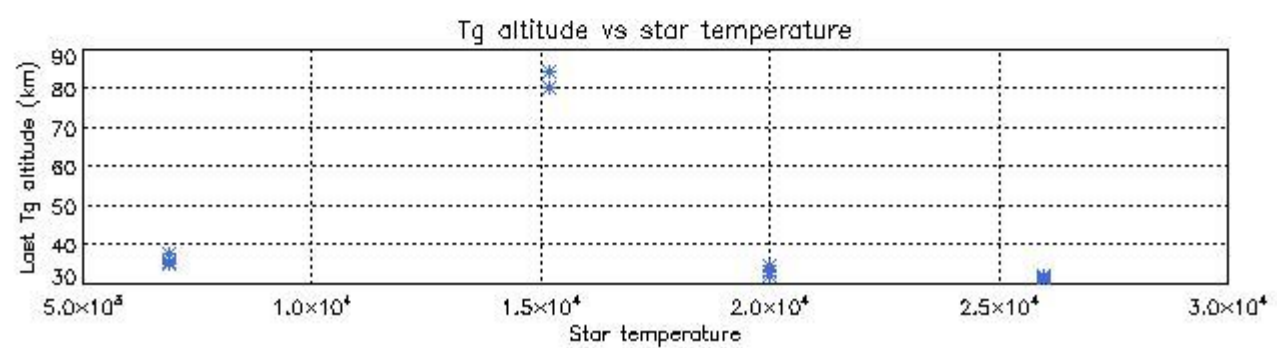
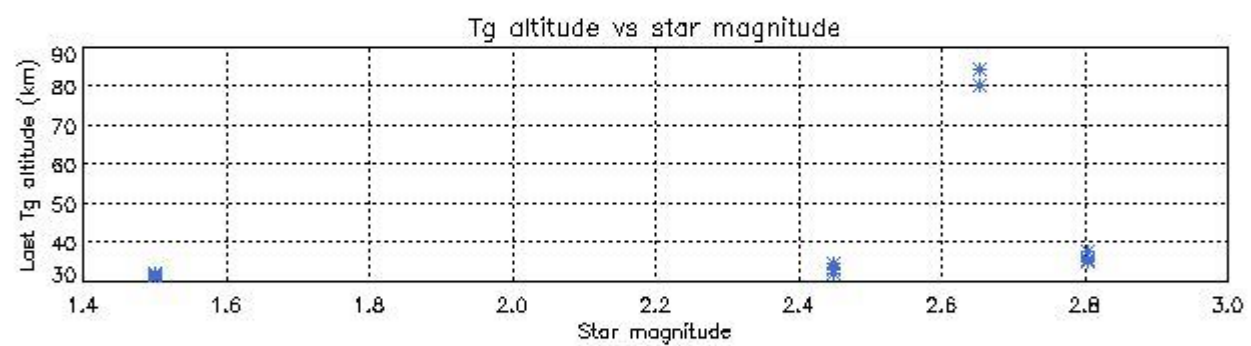
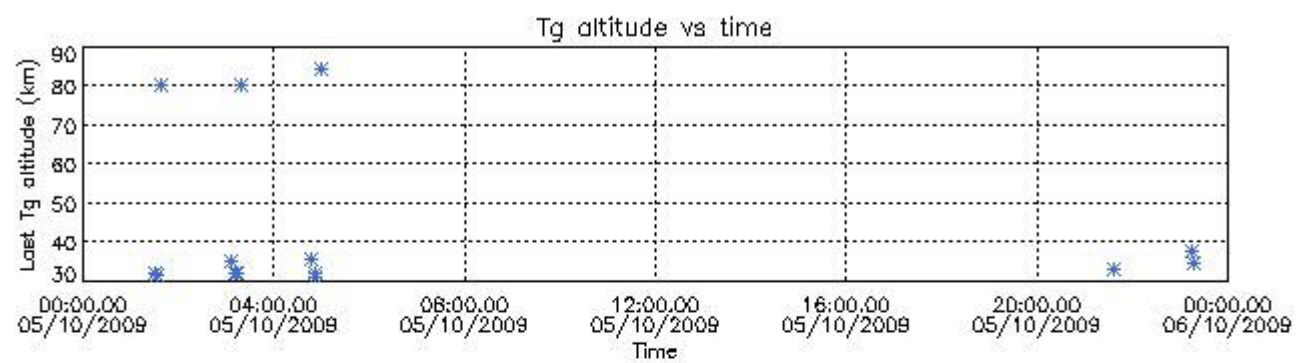
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	43.692	33.775	NaN
St. deviation:	20.620	2.2755	NaN
Maximum:	84.260	38.628	NaN
Minimum:	30.994	30.724	NaN
Number of data:	14.000	31.000	NaN

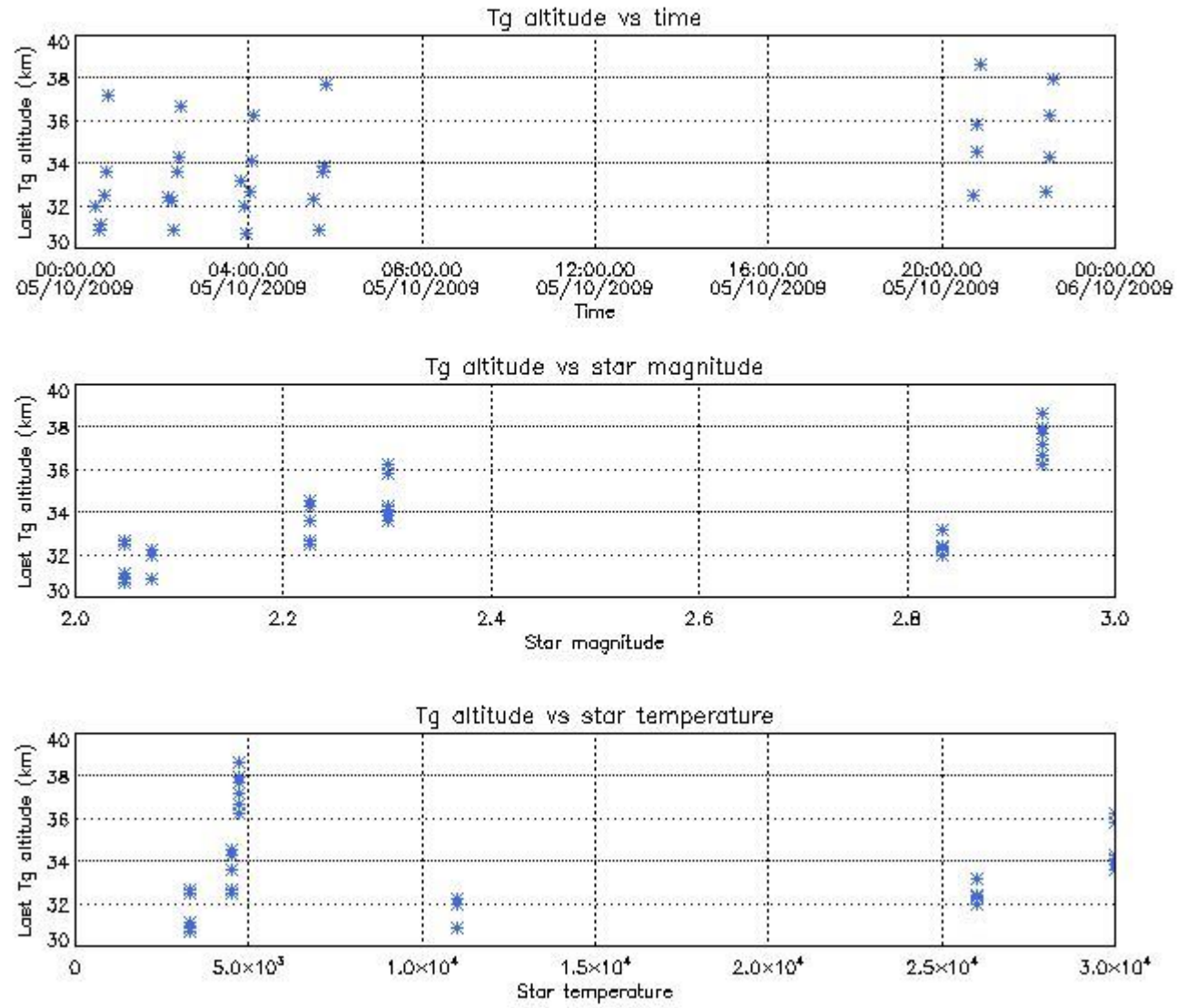
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

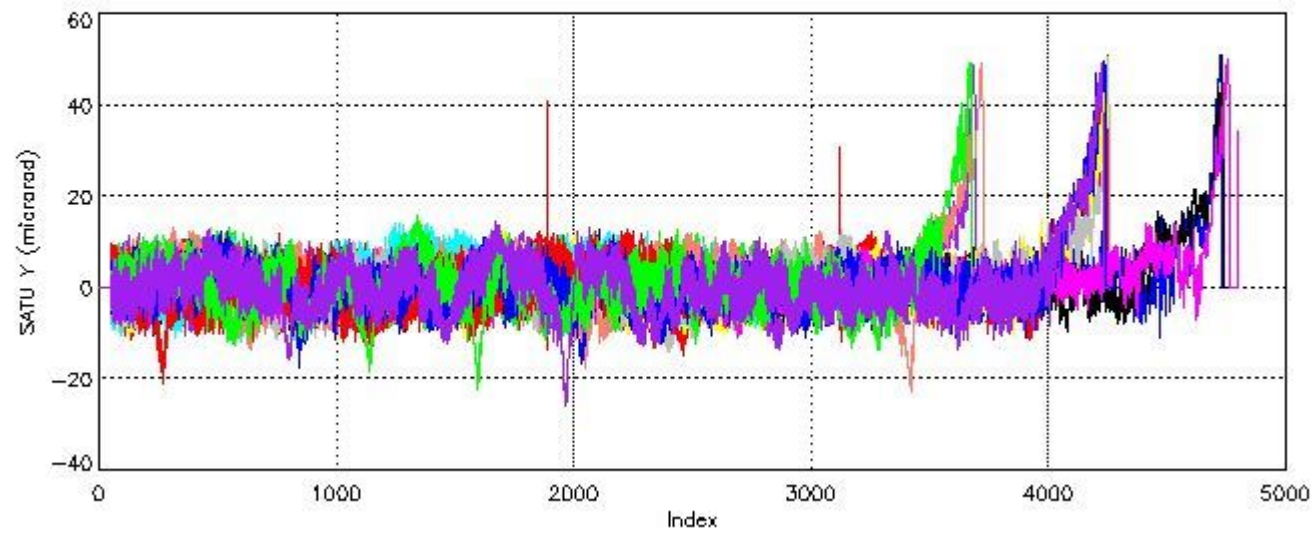
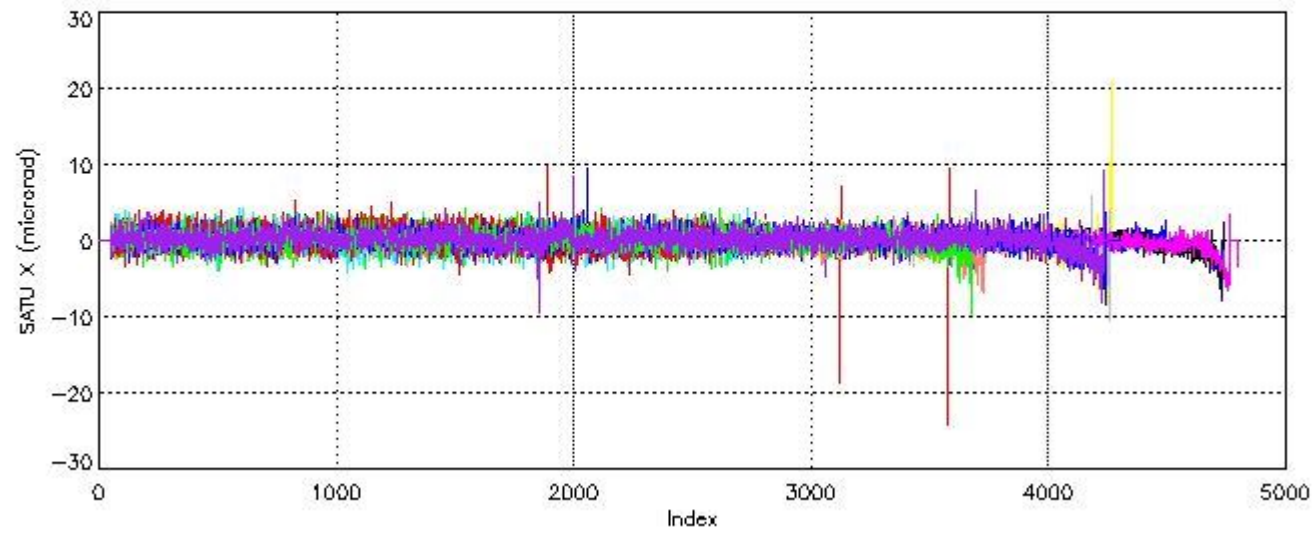


7. Star Acquisition and Tracking Unit (SATU)

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:	0.29963	-0.055557	0.23192	-0.37915
St. deviation:	0.96635	4.7283	0.83673	4.3678
Maximum:	5.3000	14.100	6.1000	16.000
Minimum:	-4.2000	-21.100	-6.1000	-20.900

Number of data:	17850.	17850.	32050.	32050.
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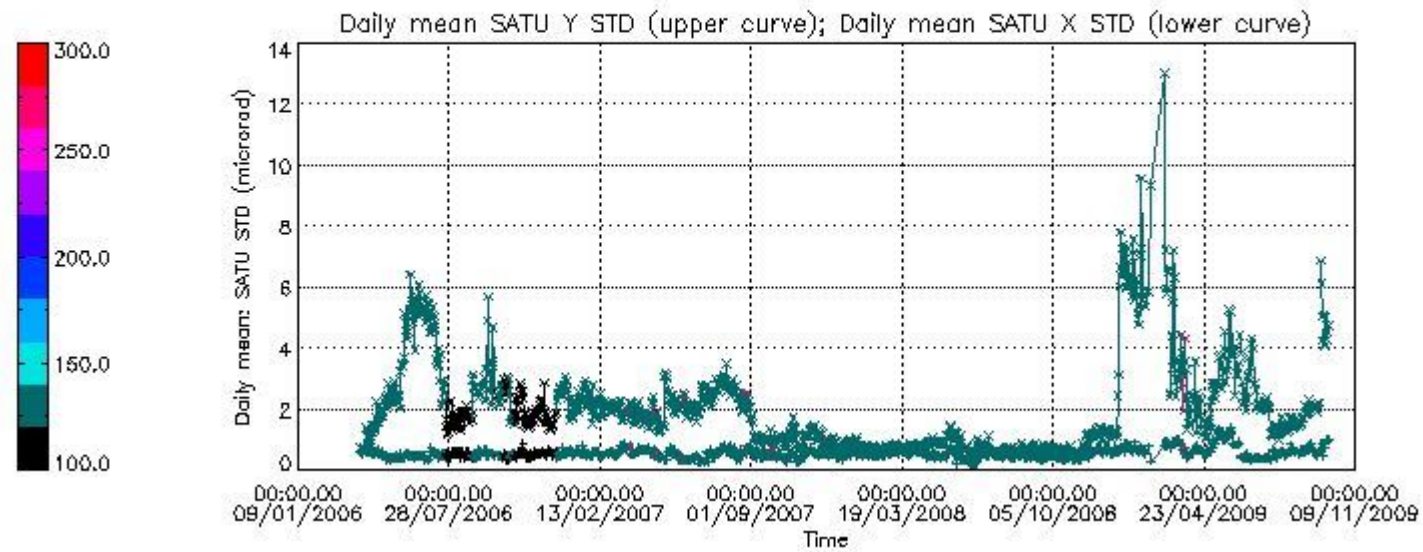
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

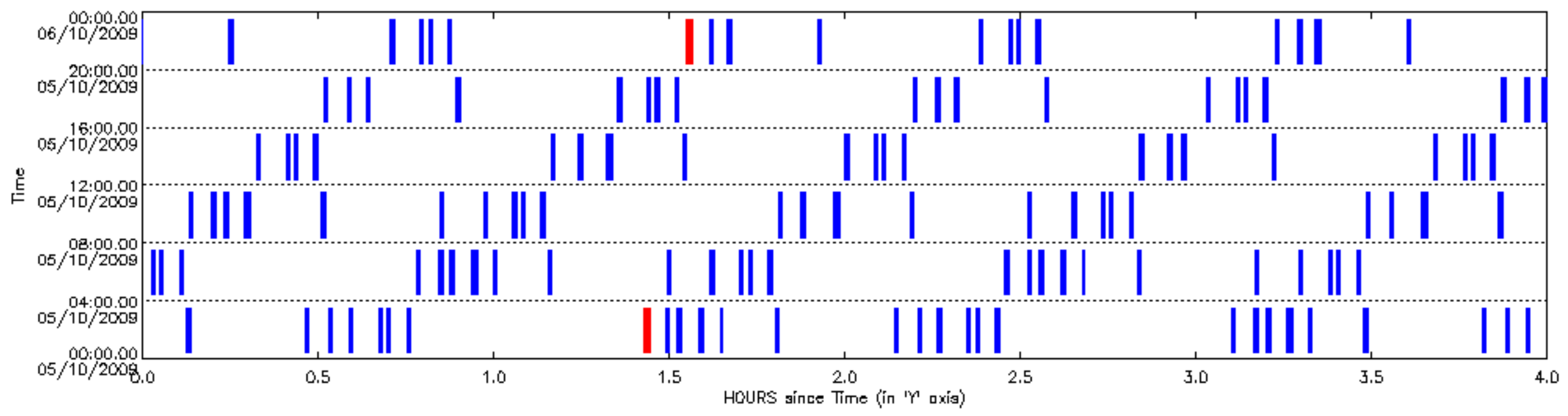
Lower curve: STD of SATU X axis

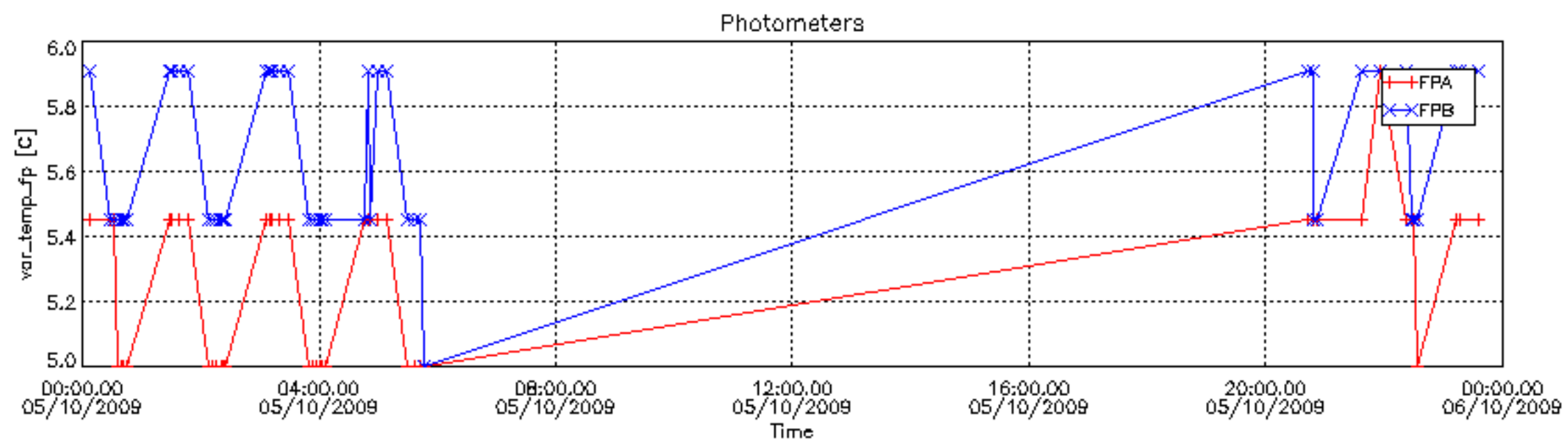
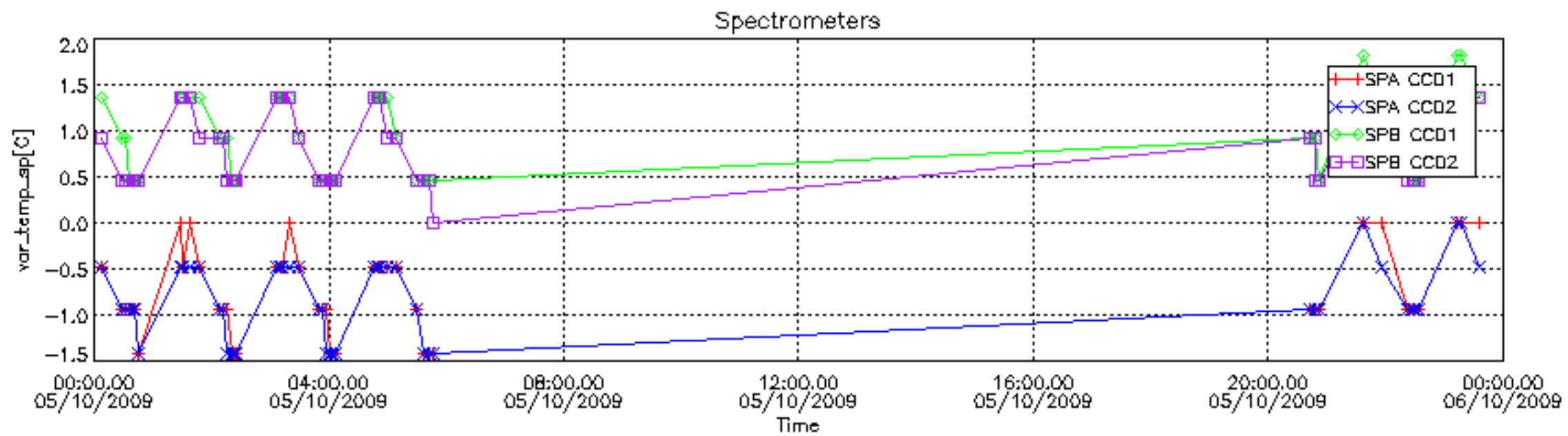


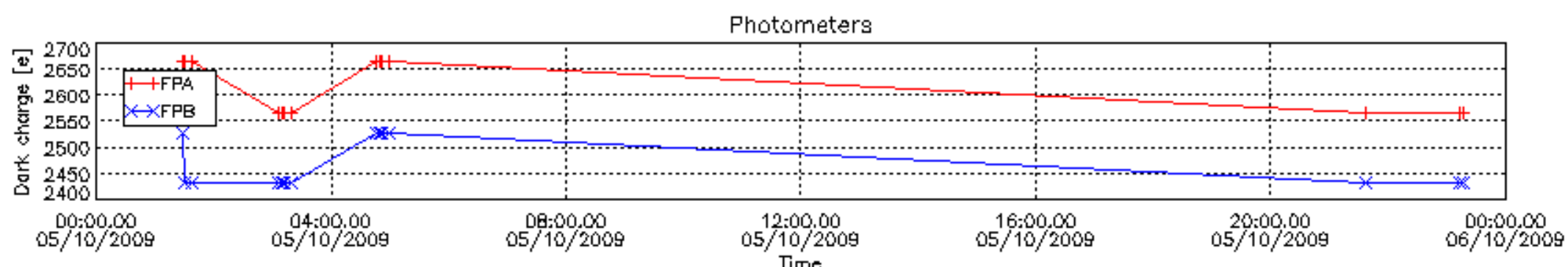
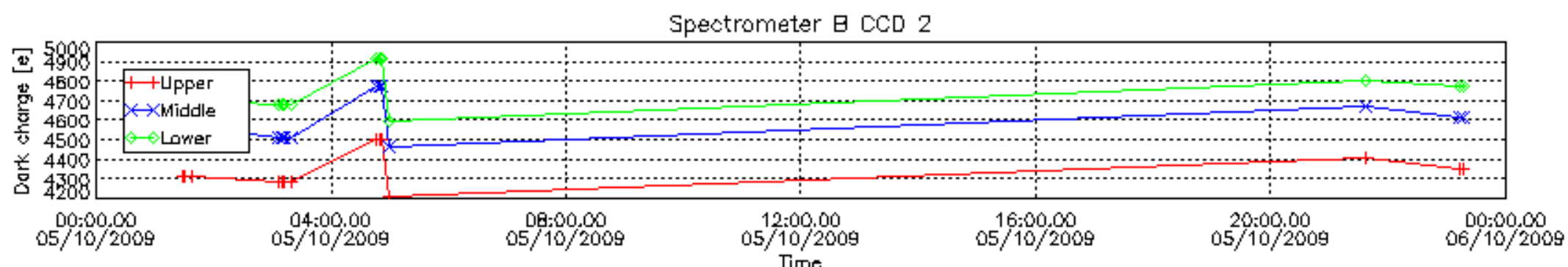
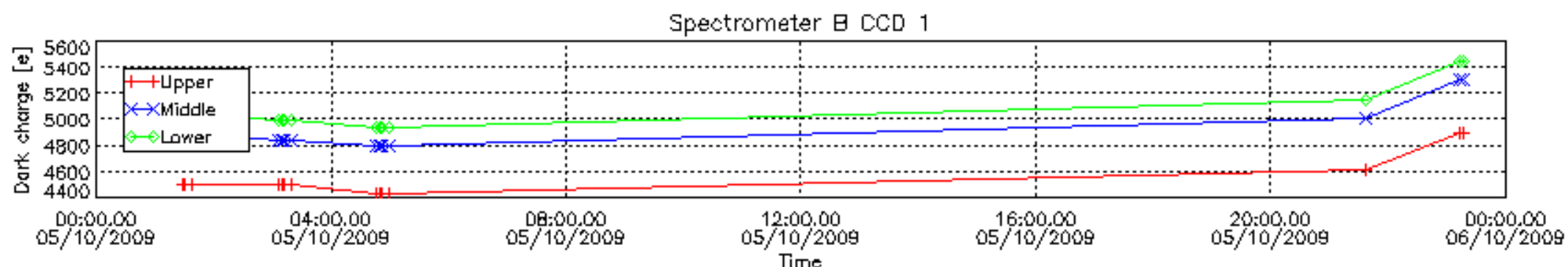
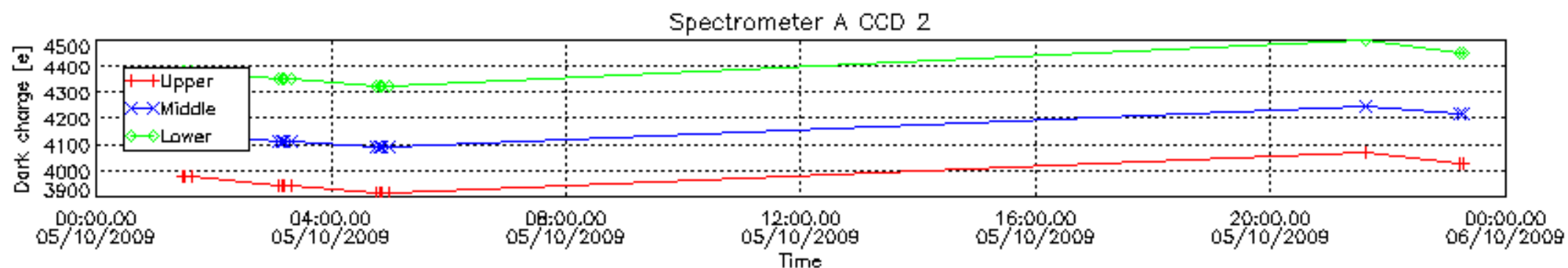
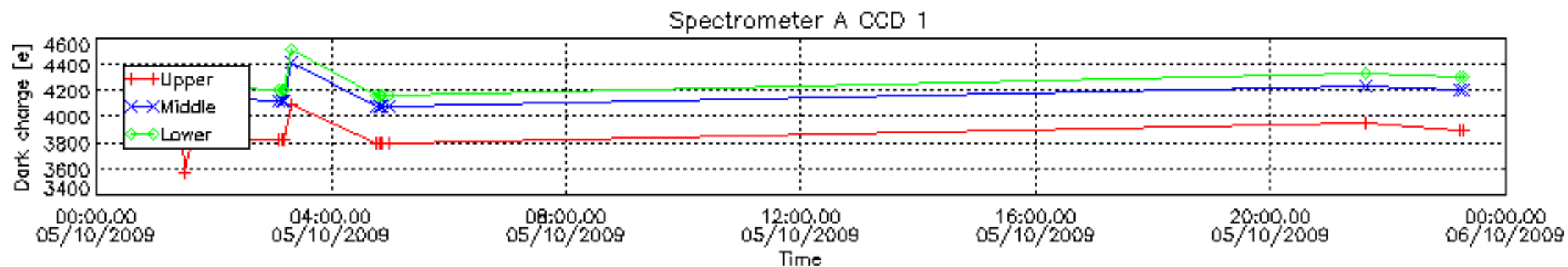
8. Auxiliary Data Files used for the production reported in section 2.4

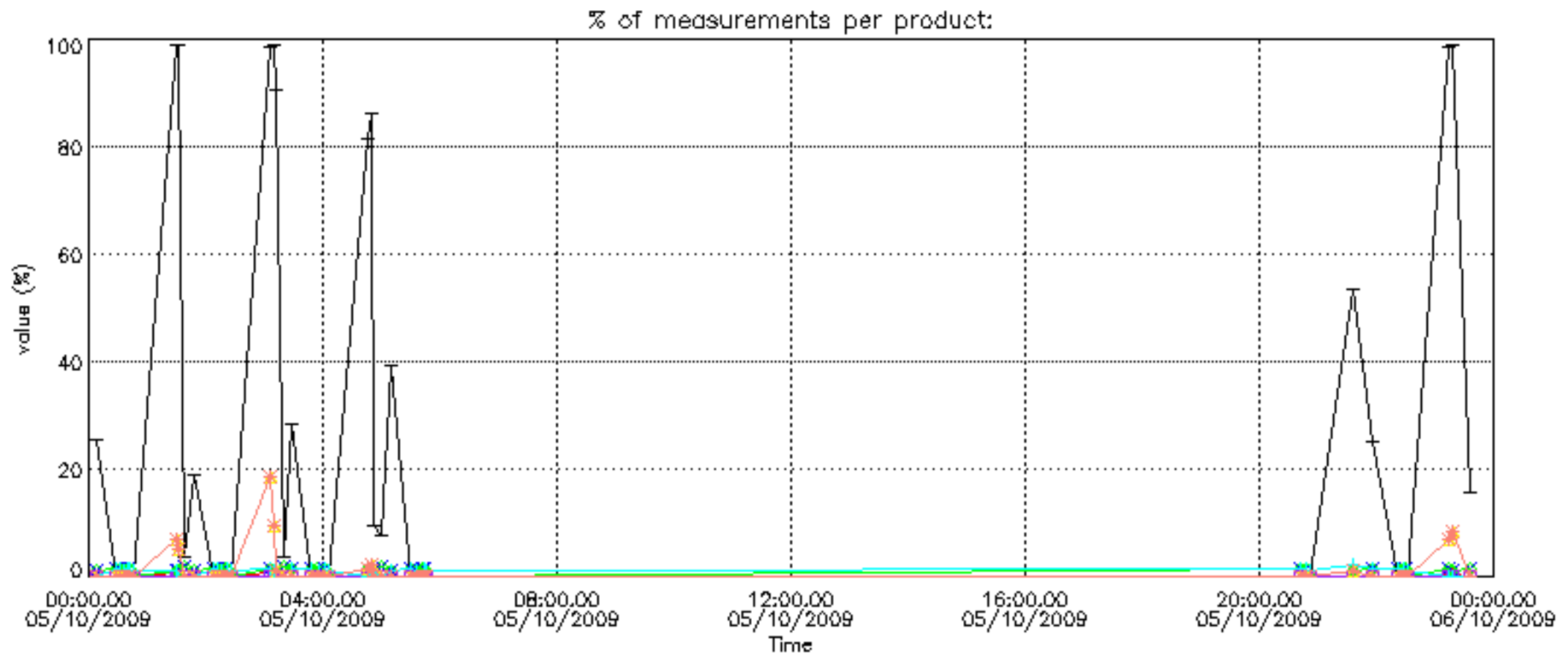
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	05-OCT-2009 00:07:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090930_074316_20090929_000000_20100101_000000	1	05-OCT-2009 00:07:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	05-OCT-2009 00:07:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-OCT-2009 00:07:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	05-OCT-2009 00:07:25
ECMWF_FILE	AUX_ECF_AXNECM20091004_064113_20091004_210000_20091005_090000	1	05-OCT-2009 00:07:25
ECMWF_FILE	AUX_ECF_AXNECM20091004_182114_20091005_030000_20091005_150000	18	05-OCT-2009 03:06:04
ECMWF_FILE	AUX_ECA_AXNECM20091005_182116_20091005_090000_20091005_210000	39	05-OCT-2009 20:42:18
ECMWF_FILE	AUX_ECF_AXNECM20091005_064117_20091005_210000_20091006_090000	43	05-OCT-2009 21:36:44
OPTIONAL_ECMWF_FILE	MISSING	1	05-OCT-2009 00:07:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091004_233626_000057382083_00087_39720_8901.N1	1	05-OCT-2009 00:07:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091005_011723_000041442083_00088_39721_8902.N1	8	05-OCT-2009 01:29:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091005_023146_000057382083_00089_39722_8903.N1	18	05-OCT-2009 03:06:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091005_041243_000057382083_00090_39723_8904.N1	29	05-OCT-2009 04:46:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091005_201424_000038252083_00100_39733_8905.N1	39	05-OCT-2009 20:42:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091005_212328_000057382083_00100_39733_8906.N1	43	05-OCT-2009 21:36:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091005_230425_000057382083_00101_39734_8907.N1	49	05-OCT-2009 23:13:27

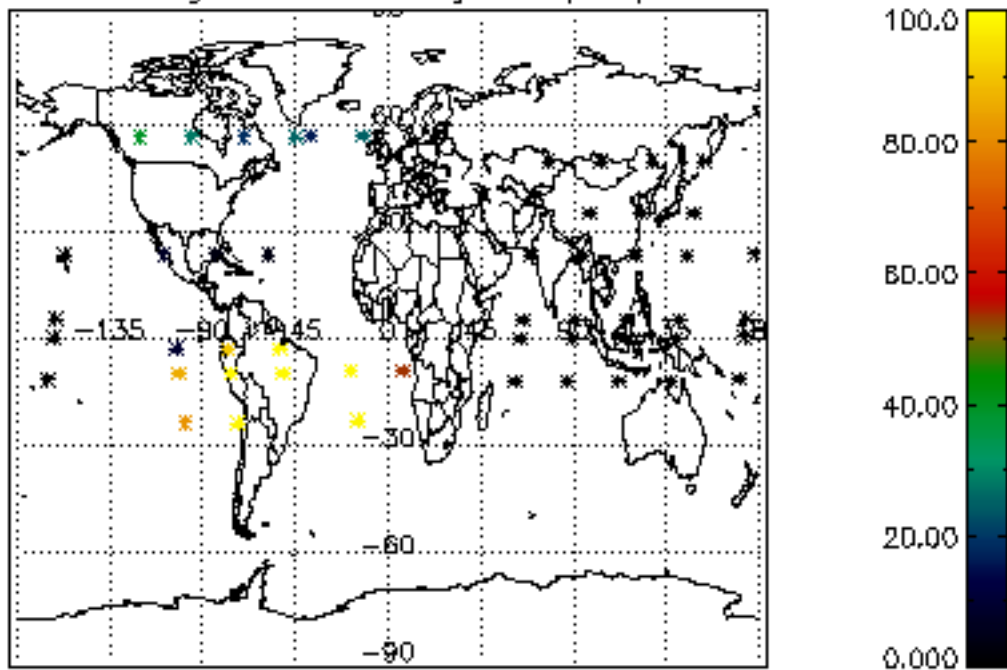




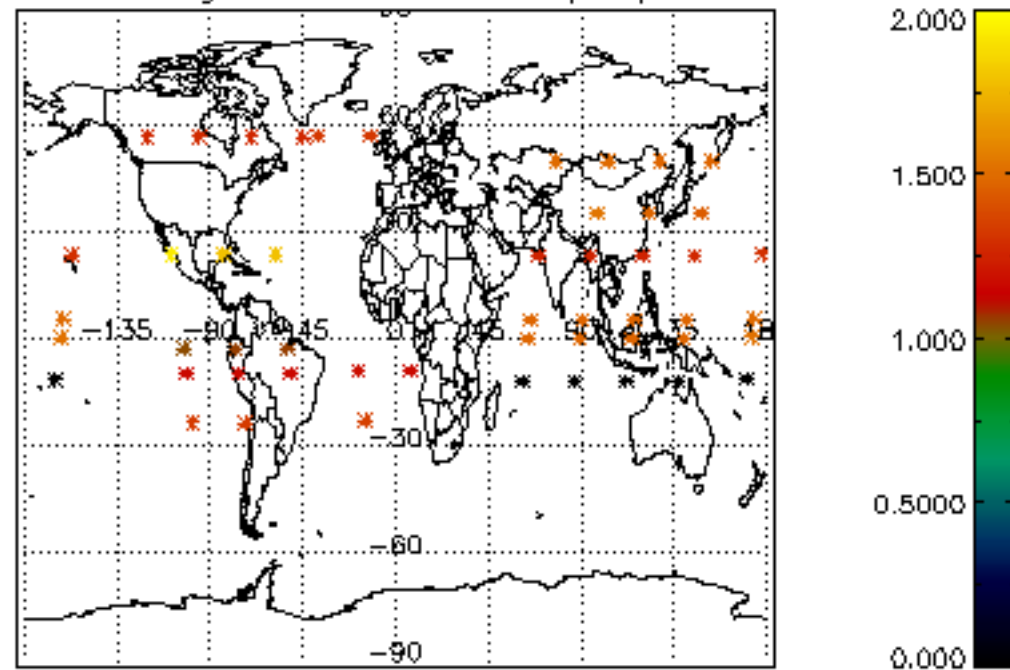




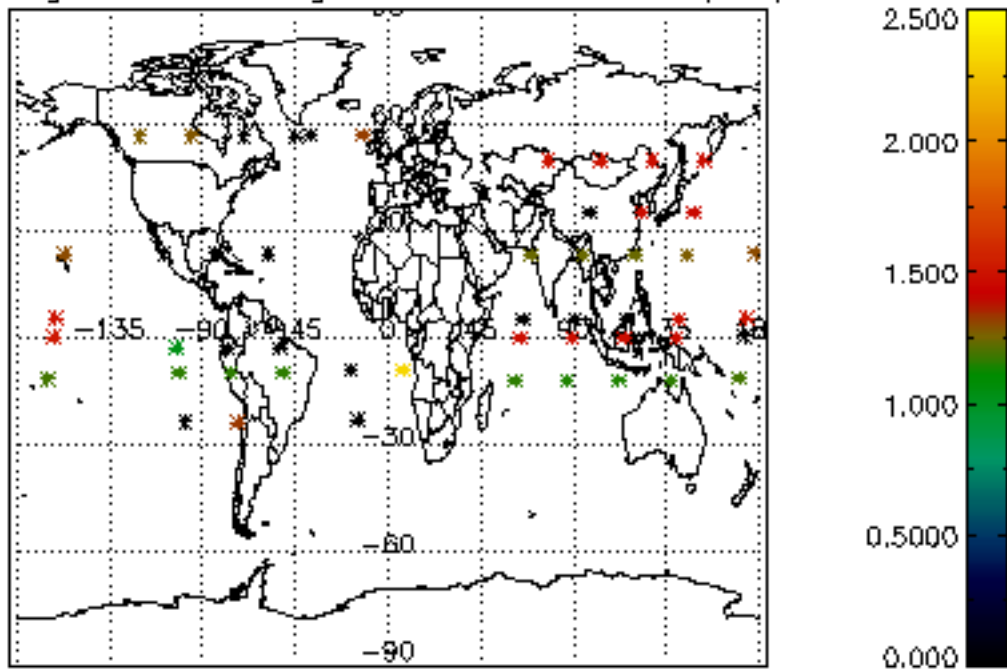
Percentage of cosmic ray hits per profile



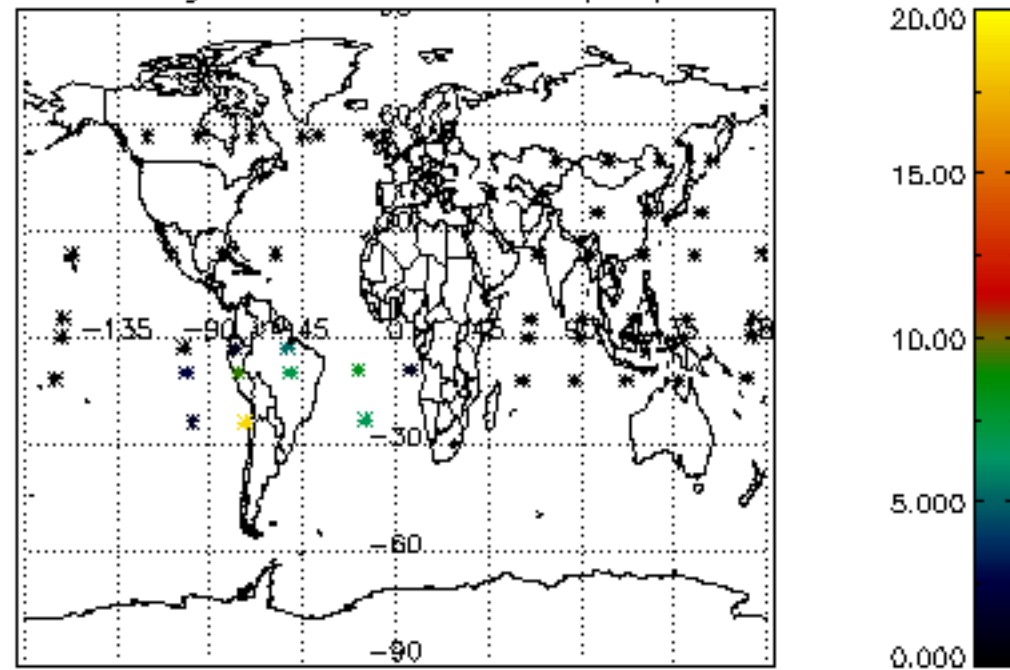
Percentage of datation errors per profile



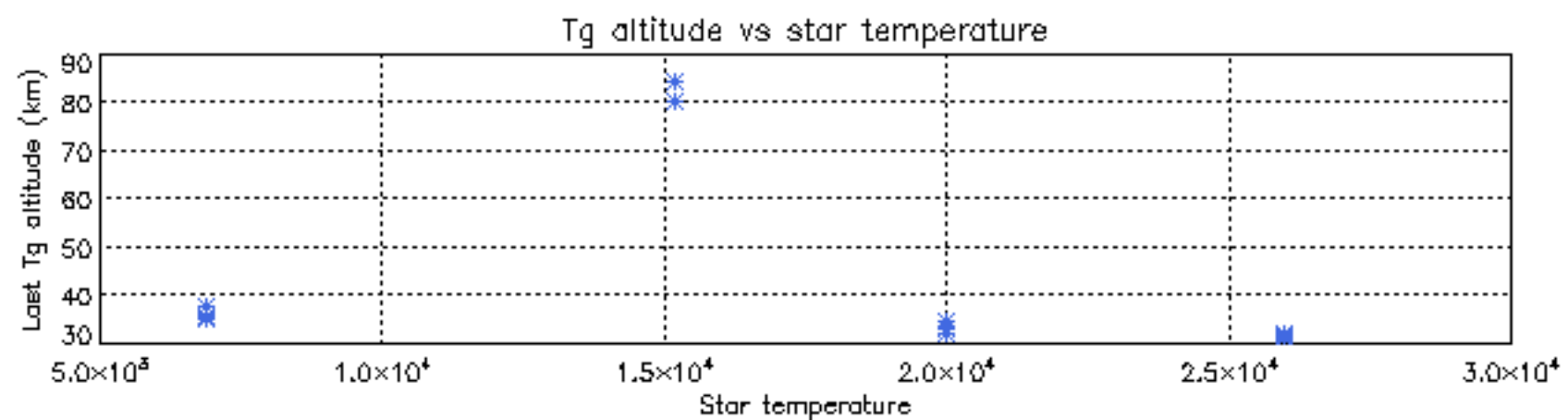
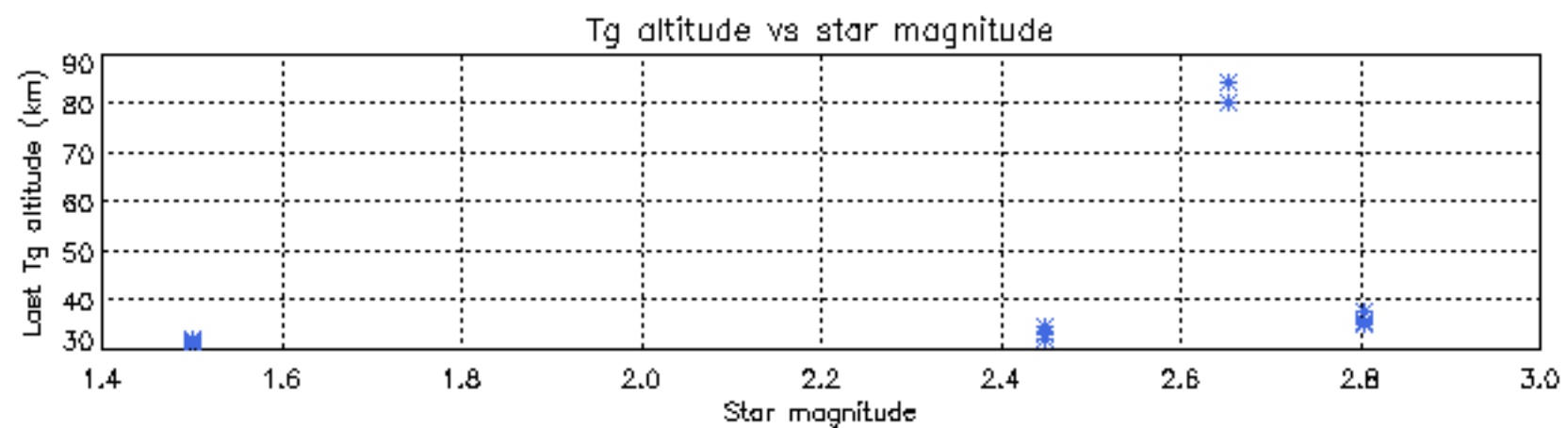
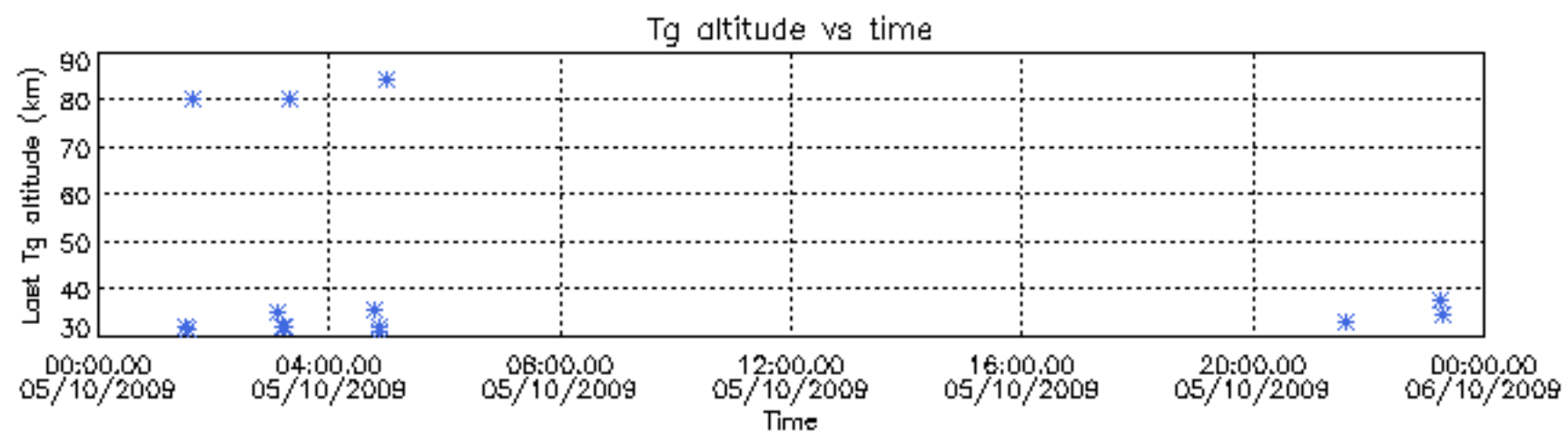
Percentage of star falling outside central band per profile



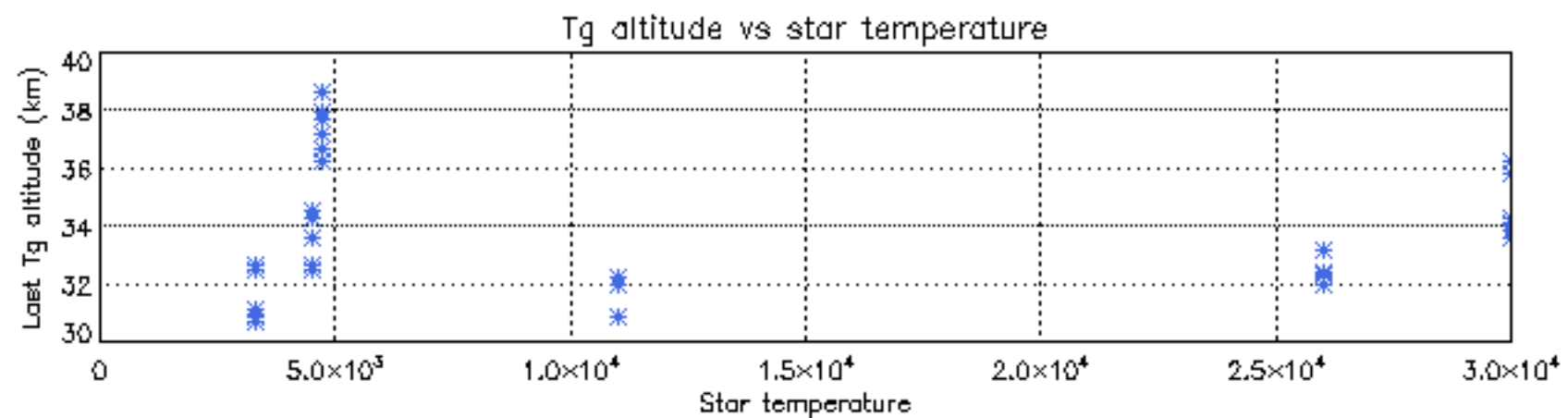
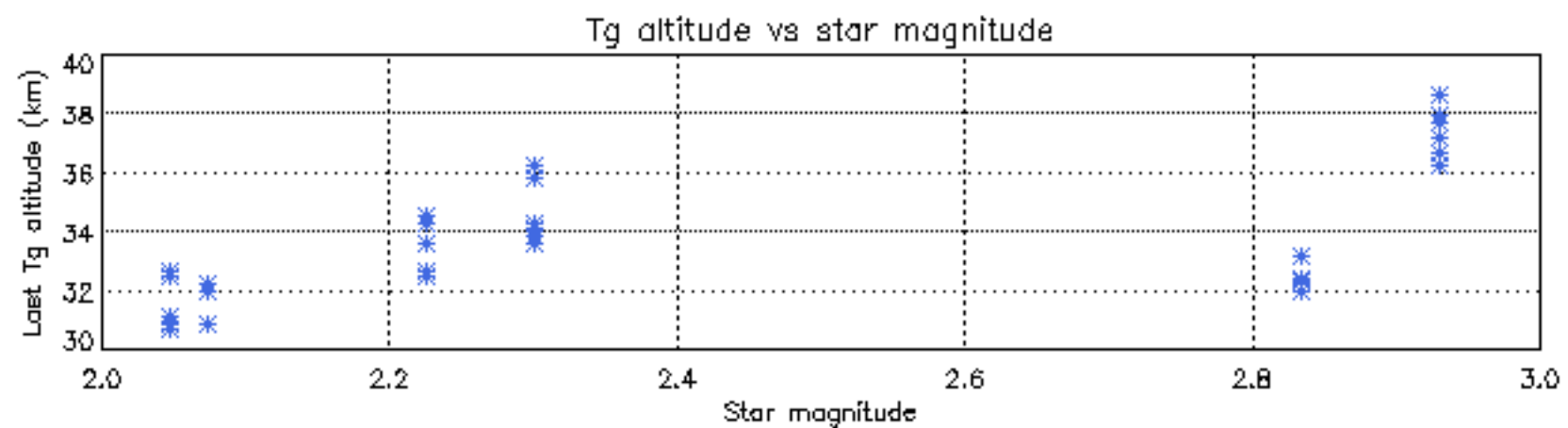
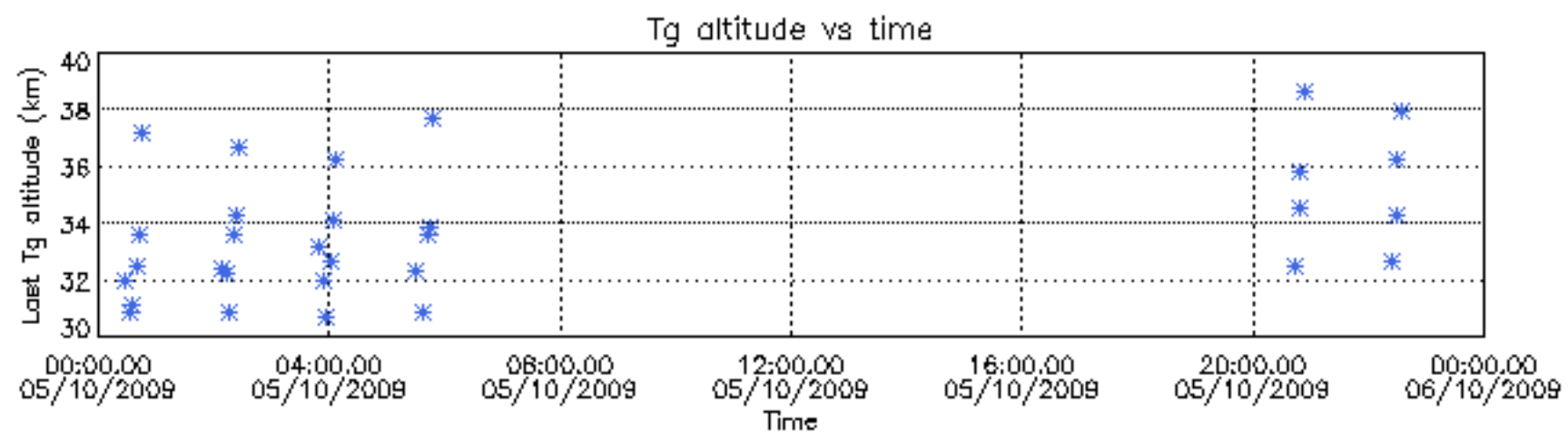
Percentage of saturation errors per profile

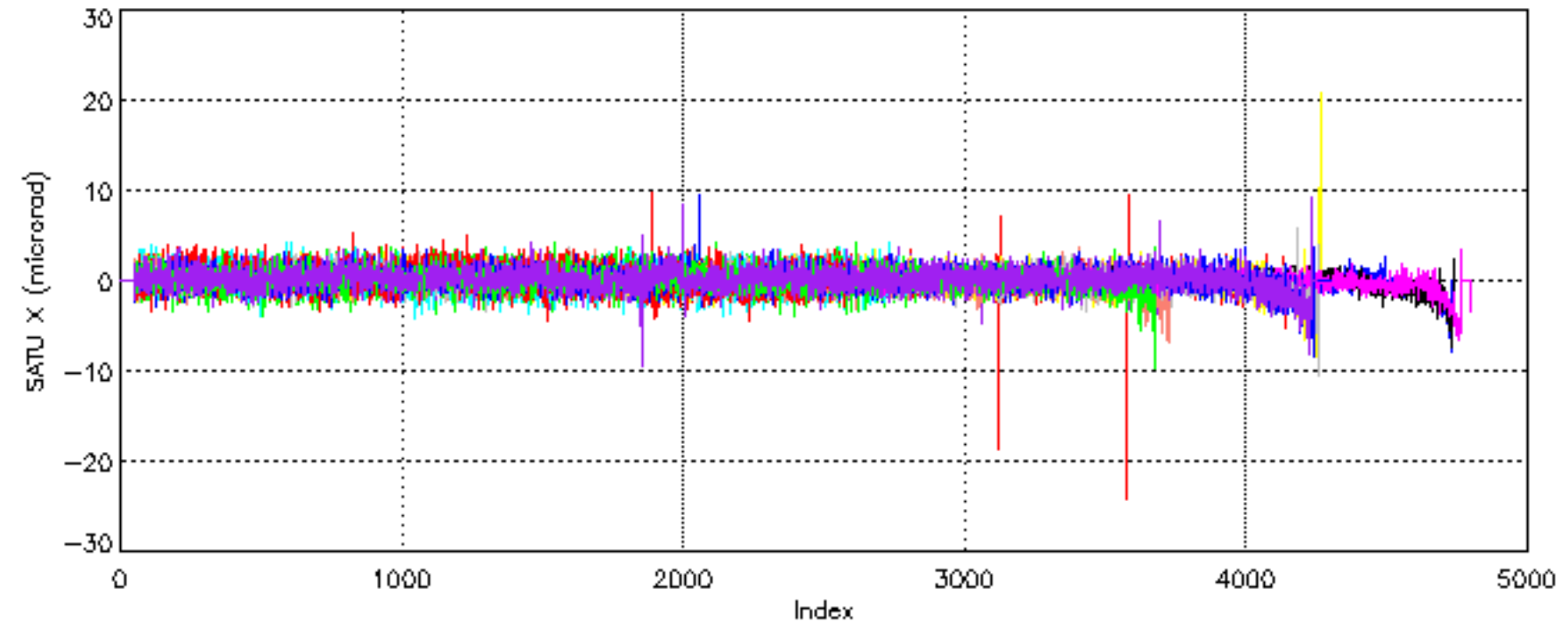


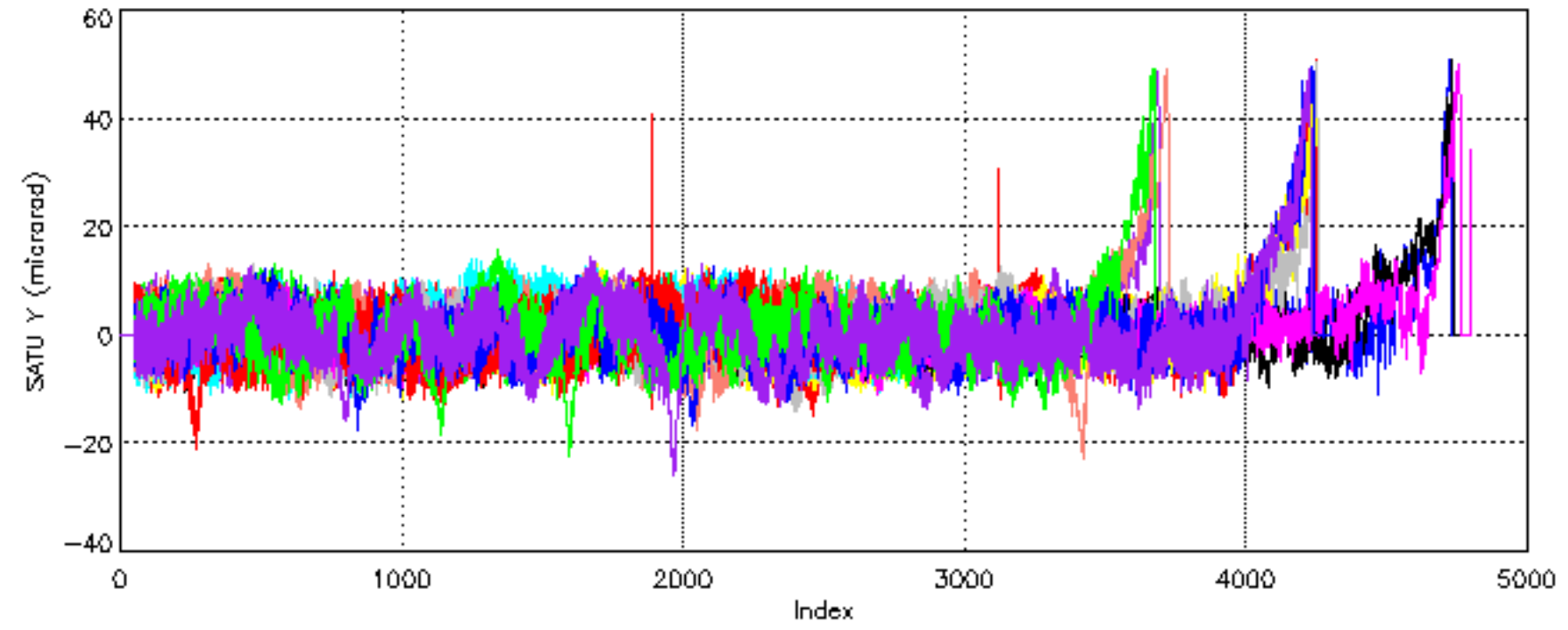
Tangent altitude at which the star is lost

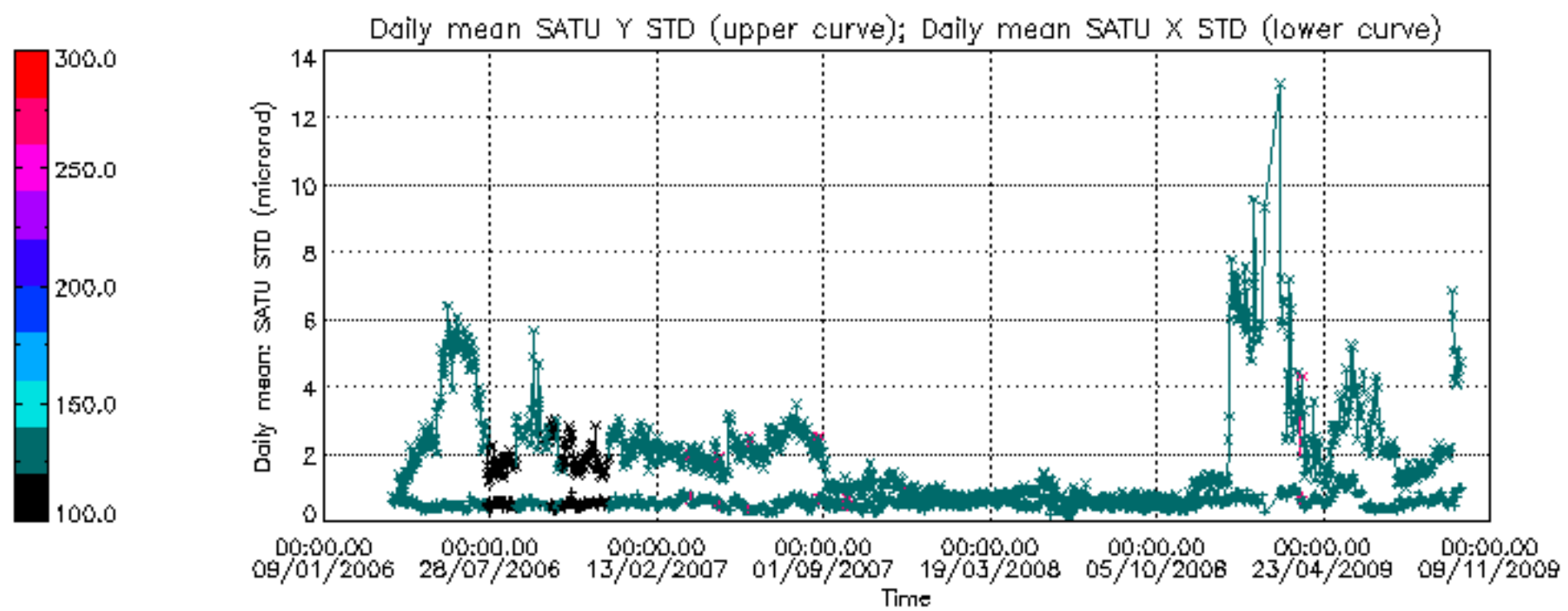


Tangent altitude at which the star is lost









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4; 97.3; 01-OCT-2009 00:18:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39664
5; 305.4; 01-OCT-2009 00:22:27; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39664
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10; 2659.8; 01-OCT-2009 01:01:42; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39664
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4; 98.5; 01-OCT-2009 01:59:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39665
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4; 113.2; 01-OCT-2009 22:07:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39677
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7; 4603.6; 01-OCT-2009 13:18:17; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;39671
8; 5593.0; 01-OCT-2009 13:34:46; Dark ; 36.0; 132; 15Rho Pup ; 2.80; 6900;occ; 72; 0;39671
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3; 2431.9; 01-OCT-2009 16:03:17; Bright; 24.5; 58; 21Alp And ; 2.07; 11000;occ; 49; 0;39673
4; 2653.4; 01-OCT-2009 16:06:59; Bright; 23.0; 53; 43Bet And ; 2.05; 3300;occ; 46; 0;39673
5; 2943.9; 01-OCT-2009 16:11:49; Bright; 16.5; 68; 18Alp Cas ; 2.22; 4500;occ; 33; 0;39673
6; 3029.5; 01-OCT-2009 16:13:15; Bright; 16.0; 76; 27Gam Cas ; 2.30; 30000;occ; 32; 0;39673
7; 4604.3; 01-OCT-2009 16:39:30; Bright; 14.0; 17; 78Bet Gem ; 1.16; 4500;occ; 28; 0;39673
8; 5595.7; 01-OCT-2009 16:56:01; Dark ; 16.5; 132; 15Rho Pup ; 2.80; 6900;occ; 33; 0;39673
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7; 2939.6; 02-OCT-2009 03:55:56; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;39680
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4; 2642.7; 02-OCT-2009 20:36:59; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39690
5; 2936.0; 02-OCT-2009 20:41:52; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39690
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7; 1560.8; 02-OCT-2009 21:59:33; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39691
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3; 2592.8; 22-OCT-2009 16:46:13; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;39974
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5; 2846.0; 22-OCT-2009 16:50:26; Bright; 44.0; 79; 26Bet Per ; 2.31; 13100;occ; 88; 0;39974
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3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
4; 459.6; 26-OCT-2009 07:21:48; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;40026
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3; 6162.6; 26-OCT-2009 12:18:03; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40028
4; 6309.4; 26-OCT-2009 12:20:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40028
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3; 5407.6; 26-OCT-2009 13:46:04; Dark ; 19.5; 48; 30Alp Hya ; 1.98; 4100;occ; 39; 0;40029
4; 6163.3; 26-OCT-2009 13:58:40; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40029
5; 6310.4; 26-OCT-2009 14:01:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40029
6; 6499.0; 26-OCT-2009 14:04:15; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;40029
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2; 2686.9; 26-OCT-2009 14:41:19; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40030
3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
4; 6311.4; 26-OCT-2009 15:41:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40030
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3; 6313.3; 26-OCT-2009 19:02:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40032
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