

GOMOS Daily Report 14-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	16OCT2009 04:32:30
Data source version	GOMOS/5.00L03
Start time of products	14OCT2009 00:04:24
Stop time of products	14OCT2009 23:54:26
Store outputs in DB	Yes
Nb of level 1b prods	68
Nb of prods with errors	1

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

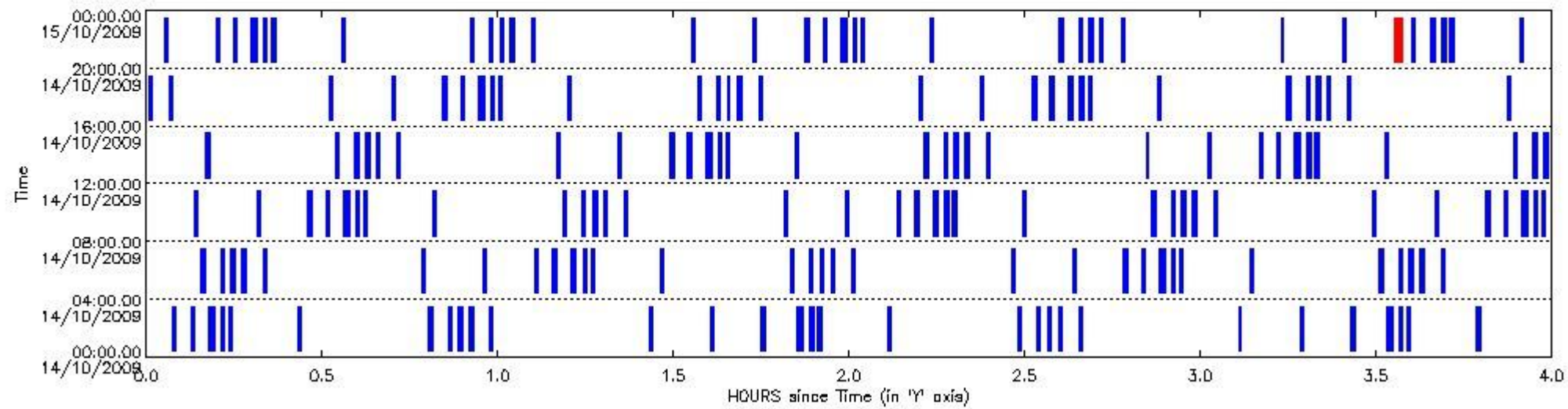
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

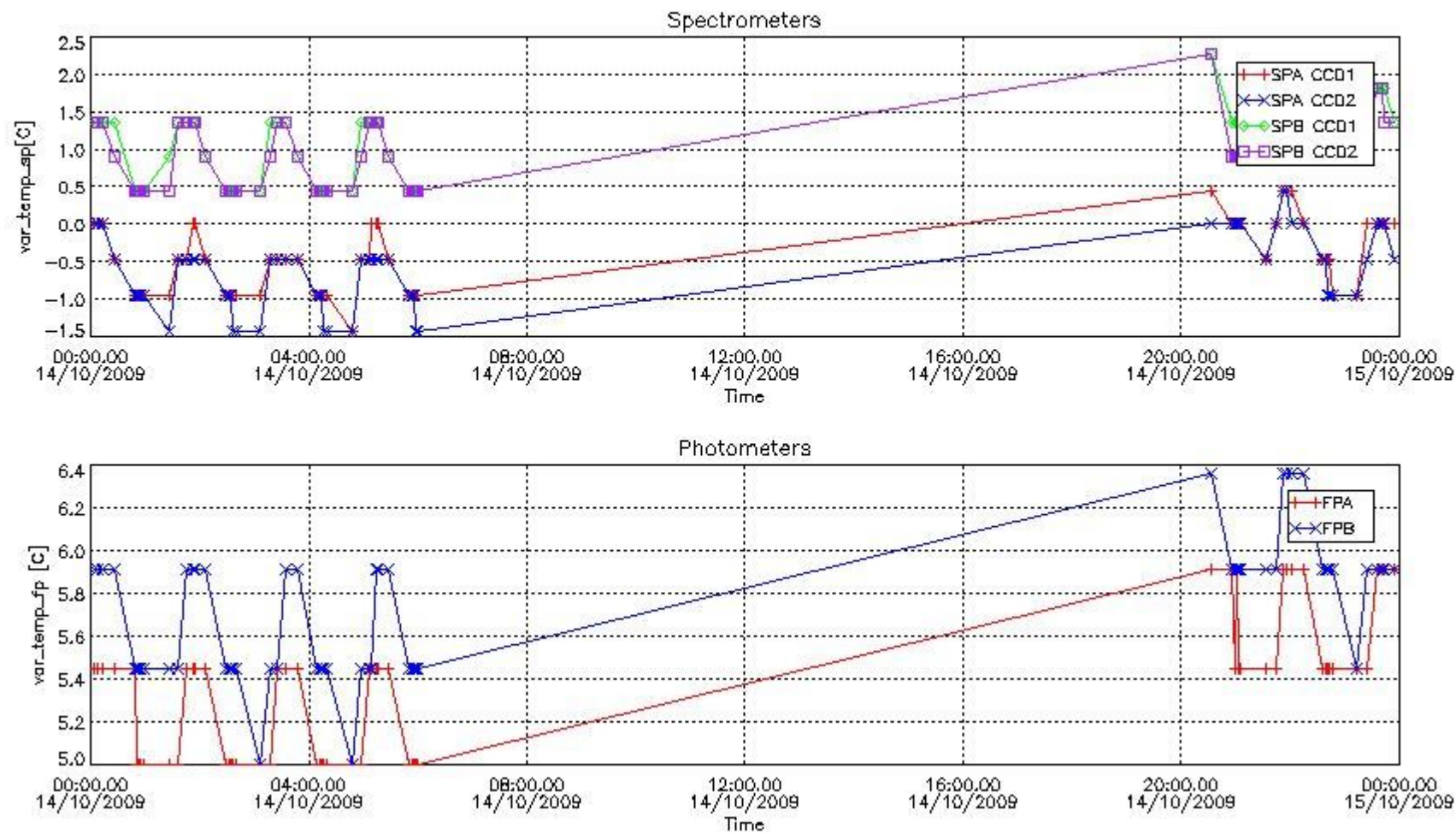
UTC start time	Star name	Star ID	Orbit
14-OCT-2009 23:33:10	15RhoPup	132	39863

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_1PNPDE20091014_000424_000000432083_00216_39849_0788.N1	14-OCT-2009 00:04:24	Dark	43.000	132	15Rho Pup	2.8030	6900.0	86	39849	No
2	GOM_TRA_1PNPDE20091014_000731_000000382083_00216_39849_0789.N1	14-OCT-2009 00:07:31	Dark	37.500	70	Zet Pup	2.2460	39000.	75	39849	No
3	GOM_TRA_1PNPDE20091014_001240_000000372083_00217_39850_0790.N1	14-OCT-2009 00:12:40	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39850	No
4	GOM_TRA_1PNPDE20091014_001402_000000372083_00217_39850_0791.N1	14-OCT-2009 00:14:02	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39850	No
5	GOM_TRA_1PNPDE20091014_002556_000000362083_00217_39850_0792.N1	14-OCT-2009 00:25:56	Straylight	36.000	157	The1Eri	2.9060	9300.0	72	39850	No
6	GOM_TRA_1PNPDE20091014_004810_000000422083_00217_39850_0793.N1	14-OCT-2009 00:48:10	Bright	41.500	105	6Bet Ari	2.6450	8900.0	83	39850	No
7	GOM_TRA_1PNPDE20091014_005128_000000362083_00217_39850_0794.N1	14-OCT-2009 00:51:28	Bright	35.500	53	43Bet And	2.0480	3300.0	71	39850	No
8	GOM_TRA_1PNPDE20091014_005317_000000432083_00217_39850_0795.N1	14-OCT-2009 00:53:17	Bright	42.500	173	4Bet Tri	3.0040	8900.0	85	39850	No
9	GOM_TRA_1PNPDE20091014_005506_000000402083_00217_39850_0796.N1	14-OCT-2009 00:55:06	Bright	40.000	73	57Gam1And	2.2600	13100.	80	39850	No
10	GOM_TRA_1PNPDE20091014_005840_000000342083_00217_39850_0797.N1	14-OCT-2009 00:58:40	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39850	No

11	GOM_TRA_1PNPDE20091014_012553_000000292083_00217_39850_0798.N1	14-OCT-2009 01:25:53	Twilight	28.500	166	17Eps Leo	2.9800	6000.0	57	39850	No
12	GOM_TRA_1PNPDE20091014_013621_000000332083_00217_39850_0811.N1	14-OCT-2009 01:36:21	Dark	32.500	48	30Alp Hya	1.9770	4100.0	65	39850	No
13	GOM_TRA_1PNPDE20091014_014501_000000432083_00217_39850_0812.N1	14-OCT-2009 01:45:01	Dark	43.000	132	15Rho Pup	2.8030	6900.0	86	39850	No
14	GOM_TRA_1PNPDE20091014_015317_000000372083_00218_39851_0813.N1	14-OCT-2009 01:53:17	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39851	No
15	GOM_TRA_1PNPDE20091014_015438_000000372083_00218_39851_0814.N1	14-OCT-2009 01:54:38	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39851	No
16	GOM_TRA_1PNPDE20091014_020633_000000362083_00218_39851_0815.N1	14-OCT-2009 02:06:33	Straylight	36.000	157	The1Eri	2.9060	9300.0	72	39851	No
17	GOM_TRA_1PNPDE20091014_022845_000000422083_00218_39851_0816.N1	14-OCT-2009 02:28:45	Bright	41.500	105	6Bet Ari	2.6450	8900.0	83	39851	No
18	GOM_TRA_1PNPDE20091014_023203_000000362083_00218_39851_0817.N1	14-OCT-2009 02:32:03	Bright	35.500	53	43Bet And	2.0480	3300.0	71	39851	No
19	GOM_TRA_1PNPDE20091014_023352_000000422083_00218_39851_0818.N1	14-OCT-2009 02:33:52	Bright	42.000	173	4Bet Tri	3.0040	8900.0	84	39851	No
20	GOM_TRA_1PNPDE20091014_023541_000000402083_00218_39851_0819.N1	14-OCT-2009 02:35:41	Bright	40.000	73	57Gam1And	2.2600	13100.	80	39851	No
21	GOM_TRA_1PNPDE20091014_023916_000000332083_00218_39851_0820.N1	14-OCT-2009 02:39:16	Bright	32.500	110	37Del Cas	2.6780	8900.0	65	39851	No
22	GOM_TRA_1PNPDE20091014_030629_000000292083_00218_39851_0847.N1	14-OCT-2009 03:06:29	Twilight	28.500	166	17Eps Leo	2.9800	6000.0	57	39851	No
23	GOM_TRA_1PNPDE20091014_031658_000000332083_00218_39851_0848.N1	14-OCT-2009 03:16:58	Dark	32.500	48	30Alp Hya	1.9770	4100.0	65	39851	No
24	GOM_TRA_1PNPDE20091014_032538_000000432083_00218_39851_0849.N1	14-OCT-2009 03:25:38	Dark	43.000	132	15Rho Pup	2.8030	6900.0	86	39851	No
25	GOM_TRA_1PNPDE20091014_033353_000000372083_00219_39852_0850.N1	14-OCT-2009 03:33:53	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39852	No
26	GOM_TRA_1PNPDE20091014_033515_000000372083_00219_39852_0851.N1	14-OCT-2009 03:35:15	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39852	No
27	GOM_TRA_1PNPDE20091014_034709_000000362083_00219_39852_0852.N1	14-OCT-2009 03:47:09	Straylight	36.000	157	The1Eri	2.9060	9300.0	72	39852	No
28	GOM_TRA_1PNPDE20091014_040920_000000422083_00219_39852_0853.N1	14-OCT-2009 04:09:20	Bright	42.000	105	6Bet Ari	2.6450	8900.0	84	39852	No
29	GOM_TRA_1PNPDE20091014_041239_000000362083_00219_39852_0854.N1	14-OCT-2009 04:12:39	Bright	35.500	53	43Bet And	2.0480	3300.0	71	39852	No
30	GOM_TRA_1PNPDE20091014_041427_000000422083_00219_39852_0855.N1	14-OCT-2009 04:14:27	Bright	42.000	173	4Bet Tri	3.0040	8900.0	84	39852	No
31	GOM_TRA_1PNPDE20091014_041616_000000402083_00219_39852_0856.N1	14-OCT-2009 04:16:16	Bright	40.000	73	57Gam1And	2.2600	13100.	80	39852	No
32	GOM_TRA_1PNPDE20091014_041952_000000332083_00219_39852_0857.N1	14-OCT-2009 04:19:52	Bright	32.500	110	37Del Cas	2.6780	8900.0	65	39852	No
33	GOM_TRA_1PNPDE20091014_044705_000000292083_00219_39852_0861.N1	14-OCT-2009 04:47:05	Twilight	28.500	166	17Eps Leo	2.9800	6000.0	57	39852	No
34	GOM_TRA_1PNPDE20091014_045735_000000332083_00219_39852_0862.N1	14-OCT-2009 04:57:35	Dark	32.500	48	30Alp Hya	1.9770	4100.0	65	39852	No
35	GOM_TRA_1PNPDE20091014_050615_000000442083_00219_39852_0863.N1	14-OCT-2009 05:06:15	Dark	43.500	132	15Rho Pup	2.8030	6900.0	87	39852	No
36	GOM_TRA_1PNPDE20091014_050922_000000382083_00219_39852_0864.N1	14-OCT-2009 05:09:22	Dark	37.500	70	Zet Pup	2.2460	39000.	75	39852	No
37	GOM_TRA_1PNPDE20091014_051431_000000372083_00220_39853_0865.N1	14-OCT-2009 05:14:31	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39853	No
38	GOM_TRA_1PNPDE20091014_051552_000000372083_00220_39853_0866.N1	14-OCT-2009 05:15:52	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39853	No
39	GOM_TRA_1PNPDE20091014_052746_000000362083_00220_39853_0867.N1	14-OCT-2009 05:27:46	Straylight	36.000	157	The1Eri	2.9060	9300.0	72	39853	No
40	GOM_TRA_1PNPDE20091014_054956_000000422083_00220_39853_0868.N1	14-OCT-2009 05:49:56	Bright	41.500	105	6Bet Ari	2.6450	8900.0	83	39853	No
41	GOM_TRA_1PNPDE20091014_055315_000000362083_00220_39853_0869.N1	14-OCT-2009 05:53:15	Bright	35.500	53	43Bet And	2.0480	3300.0	71	39853	No
42	GOM_TRA_1PNPDE20091014_055502_000000432083_00220_39853_0870.N1	14-OCT-2009 05:55:02	Bright	42.500	173	4Bet Tri	3.0040	8900.0	85	39853	No
43	GOM_TRA_1PNPDE20091014_055652_000000402083_00220_39853_0871.N1	14-OCT-2009 05:56:52	Bright	39.500	73	57Gam1And	2.2600	13100.	79	39853	No
44	GOM_TRA_1PNPDE20091014_060027_000000332083_00220_39853_0872.N1	14-OCT-2009 06:00:27	Bright	33.000	110	37Del Cas	2.6780	8900.0	66	39853	No
45	GOM_TRA_1PNPDE20091014_203315_000000352083_00229_39862_0900.N1	14-OCT-2009 20:33:15	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39862	Yes
46	GOM_TRA_1PNPDE20091014_205514_000000422083_00229_39862_0901.N1	14-OCT-2009 20:55:14	Bright	41.500	105	6Bet Ari	2.6450	8900.0	83	39862	No
47	GOM_TRA_1PNPDE20091014_205835_000000352083_00229_39862_0902.N1	14-OCT-2009 20:58:35	Bright	35.000	53	43Bet And	2.0480	3300.0	70	39862	No
48	GOM_TRA_1PNPDE20091014_210019_000000422083_00229_39862_0903.N1	14-OCT-2009 21:00:19	Bright	41.500	173	4Bet Tri	3.0040	8900.0	83	39862	No
49	GOM_TRA_1PNPDE20091014_210209_000000402083_00229_39862_0904.N1	14-OCT-2009 21:02:09	Bright	39.500	73	57Gam1And	2.2600	13100.	79	39862	No
50	GOM_TRA_1PNPDE20091014_210548_000000332083_00229_39862_0905.N1	14-OCT-2009 21:05:48	Bright	33.000	110	37Del Cas	2.6780	8900.0	66	39862	No
51	GOM_TRA_1PNPDE20091014_213307_000000292083_00229_39862_0906.N1	14-OCT-2009 21:33:07	Twilight	29.000	166	17Eps Leo	2.9800	6000.0	58	39862	No
52	GOM_TRA_1PNPDE20091014_214341_000000332083_00229_39862_0907.N1	14-OCT-2009 21:43:41	Dark	33.000	48	30Alp Hya	1.9770	4100.0	66	39862	No
53	GOM_TRA_1PNPDE20091014_215228_000000442083_00229_39862_0908.N1	14-OCT-2009 21:52:28	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	39862	No
54	GOM_TRA_1PNPDE20091014_215531_000000382083_00229_39862_0909.N1	14-OCT-2009 21:55:31	Dark	37.500	70	Zet Pup	2.2460	39000.	75	39862	No
55	GOM_TRA_1PNPDE20091014_220038_000000372083_00230_39863_0910.N1	14-OCT-2009 22:00:38	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39863	No
56	GOM_TRA_1PNPDE20091014_220159_000000382083_00230_39863_0911.N1	14-OCT-2009 22:01:59	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39863	No
57	GOM_TRA_1PNPDE20091014_221351_000000352083_00230_39863_0912.N1	14-OCT-2009 22:13:51	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39863	No
58	GOM_TRA_1PNPDE20091014_223549_000000412083_00230_39863_0913.N1	14-OCT-2009 22:35:49	Bright	41.000	105	6Bet Ari	2.6450	8900.0	82	39863	No
59	GOM_TRA_1PNPDE20091014_223910_000000362083_00230_39863_0914.N1	14-OCT-2009 22:39:10	Bright	35.500	53	43Bet And	2.0480	3300.0	71	39863	No
60	GOM_TRA_1PNPDE20091014_224054_000000422083_00230_39863_0915.N1	14-OCT-2009 22:40:54	Bright	42.000	173	4Bet Tri	3.0040	8900.0	84	39863	No
61	GOM_TRA_1PNPDE20091014_224245_000000392083_00230_39863_0916.N1	14-OCT-2009 22:42:45	Bright	39.000	73	57Gam1And	2.2600	13100.	78	39863	No
62	GOM_TRA_1PNPDE20091014_224624_000000332083_00230_39863_0917.N1	14-OCT-2009 22:46:24	Bright	32.500	110	37Del Cas	2.6780	8900.0	65	39863	No
63	GOM_TRA_1PNPDE20091014_231343_000000292083_00230_39863_0918.N1	14-OCT-2009 23:13:43	Twilight	29.000	166	17Eps Leo	2.9800	6000.0	58	39863	No
64	GOM_TRA_1PNPDE20091014_232417_000000332083_00230_39863_0919.N1	14-OCT-2009 23:24:17	Dark	32.500	48	30Alp Hya	1.9770	4100.0	65	39863	No
65	GOM_TRA_1PNPDE20091014_233607_000000372083_00230_39863_0914.N1	14-OCT-2009 23:36:07	Dark	37.000	70	Zet Pup	2.2460	39000.	74	39863	No
66	GOM_TRA_1PNPDE20091014_234115_000000372083_00231_39864_0915.N1	14-OCT-2009 23:41:15	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39864	No
67	GOM_TRA_1PNPDE20091014_234236_000000372083_00231_39864_0916.N1	14-OCT-2009 23:42:36	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39864	No
68	GOM_TRA_1PNPDE20091014_235426_000000362083_00231_39864_0917.N1	14-OCT-2009 23:54:26	Straylight	36.000	157	The1Eri	2.9060	9300.0	72	39864	No

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



4. Overview of dark signal processing per product

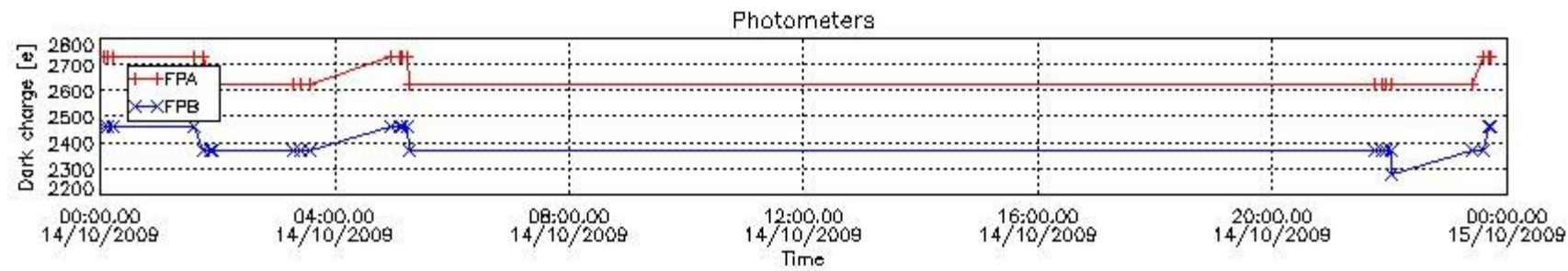
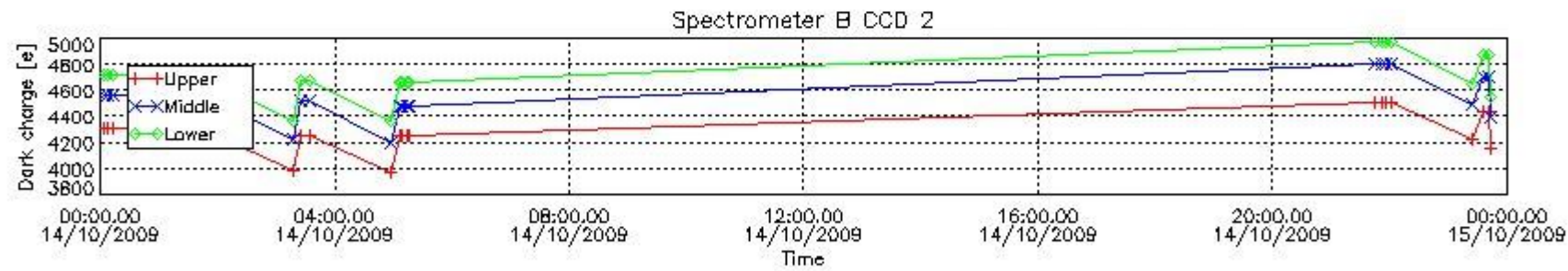
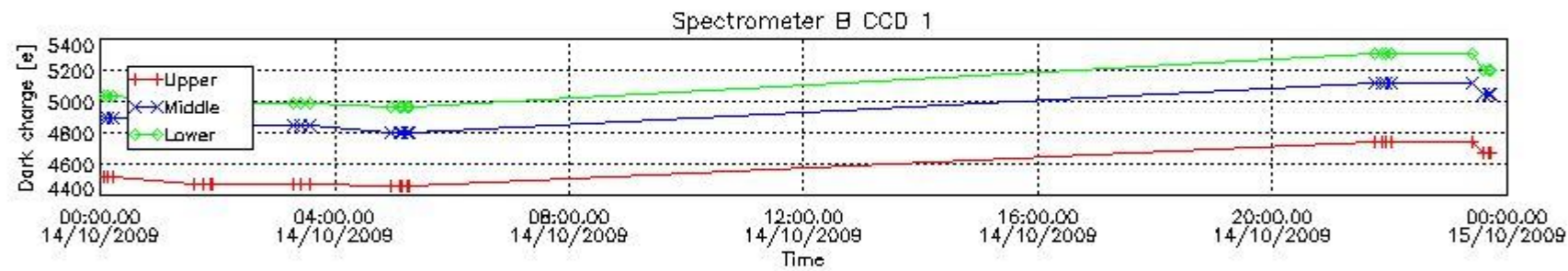
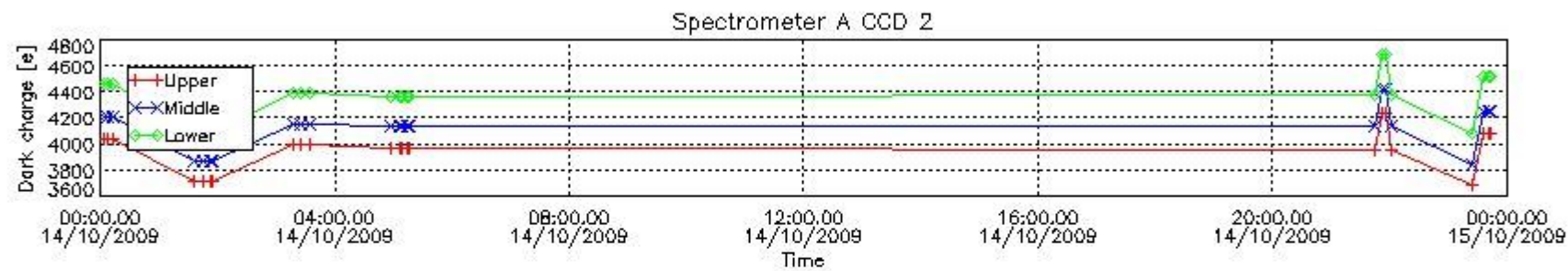
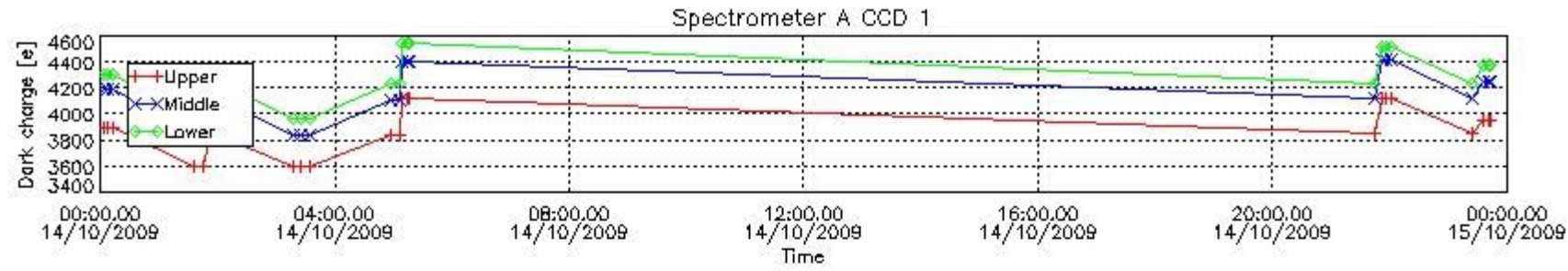
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091014_203315_000000352083_00229_39862_0900.N1	DC map with no T dep.
GOM_TRA_1PNPDE20091014_205514_000000422083_00229_39862_0901.N1	DC map used
GOM_TRA_1PNPDE20091014_205835_000000352083_00229_39862_0902.N1	DC map used
GOM_TRA_1PNPDE20091014_210019_000000422083_00229_39862_0903.N1	DC map used
GOM_TRA_1PNPDE20091014_210209_000000402083_00229_39862_0904.N1	DC map used
GOM_TRA_1PNPDE20091014_210548_000000332083_00229_39862_0905.N1	DC map used
GOM_TRA_1PNPDE20091014_213307_000000292083_00229_39862_0906.N1	DC map used

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



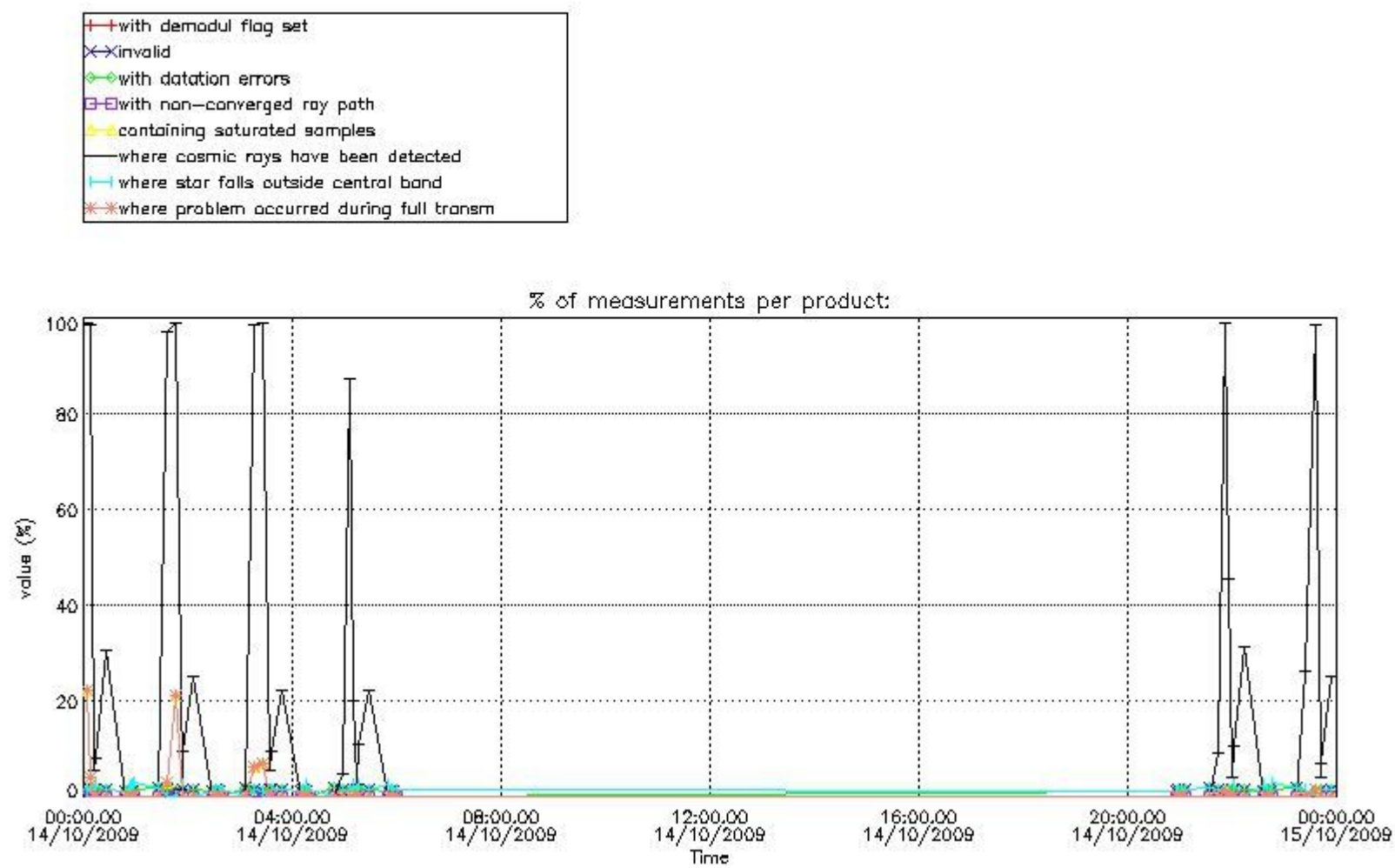
5. Demodulation flag and quality information monitoring

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.

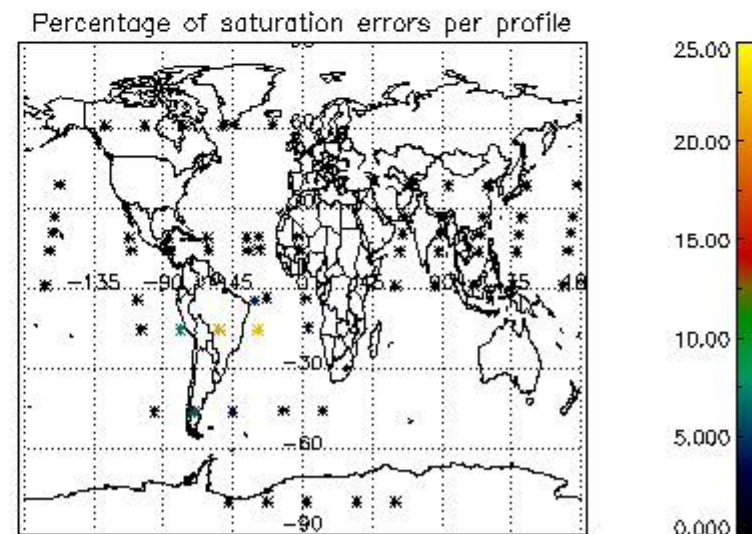
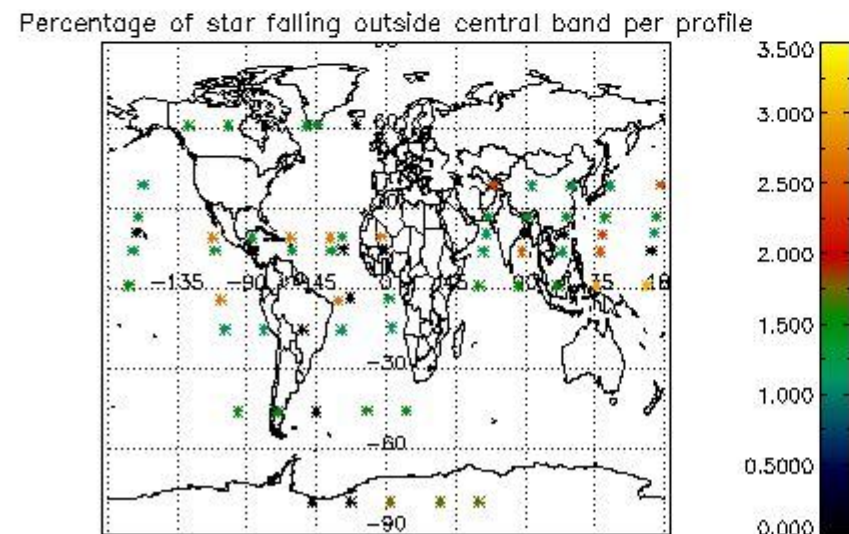
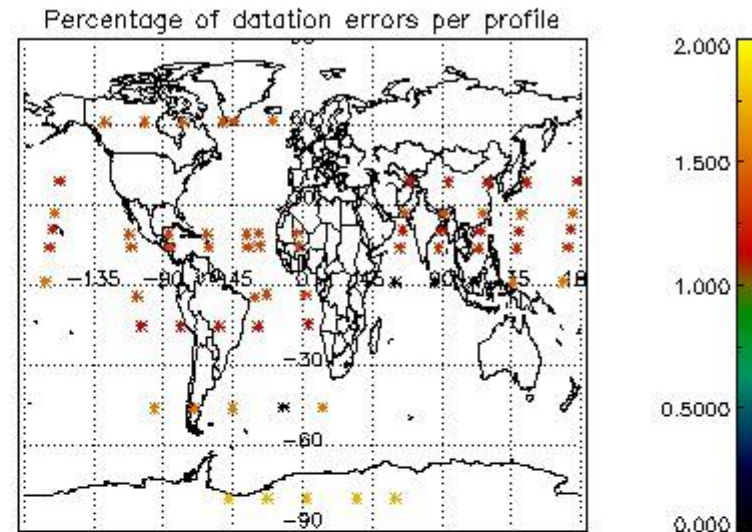
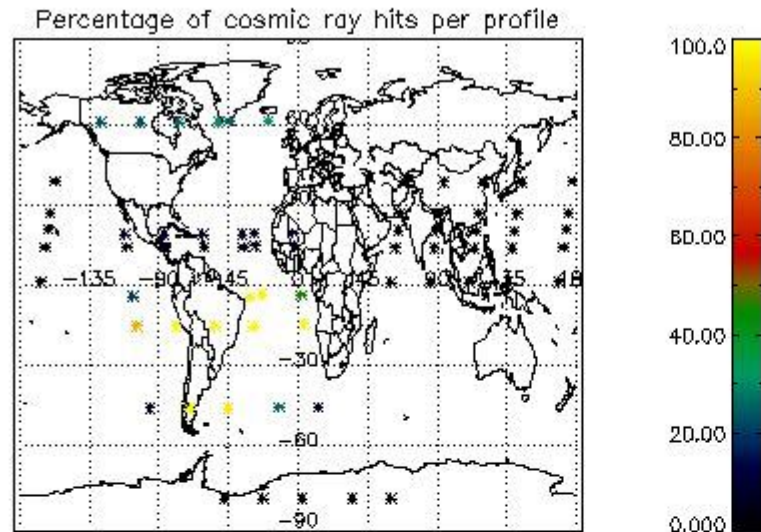
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	35.8209 %
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)



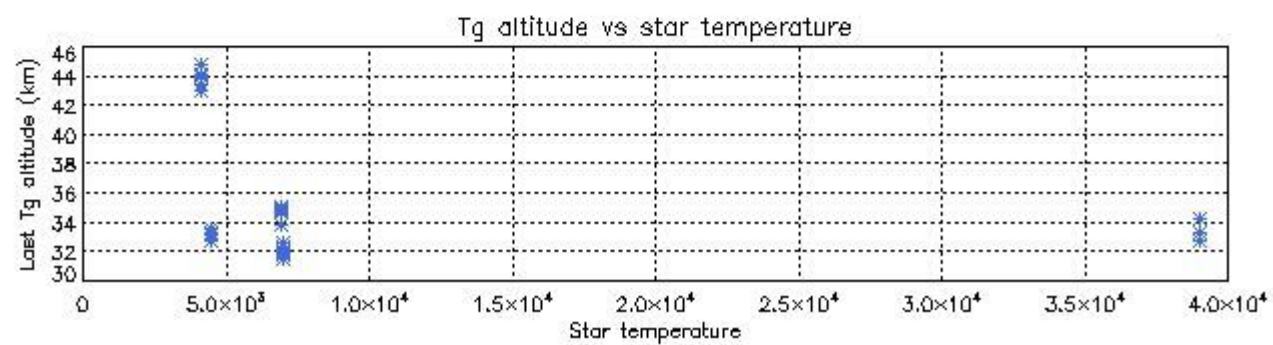
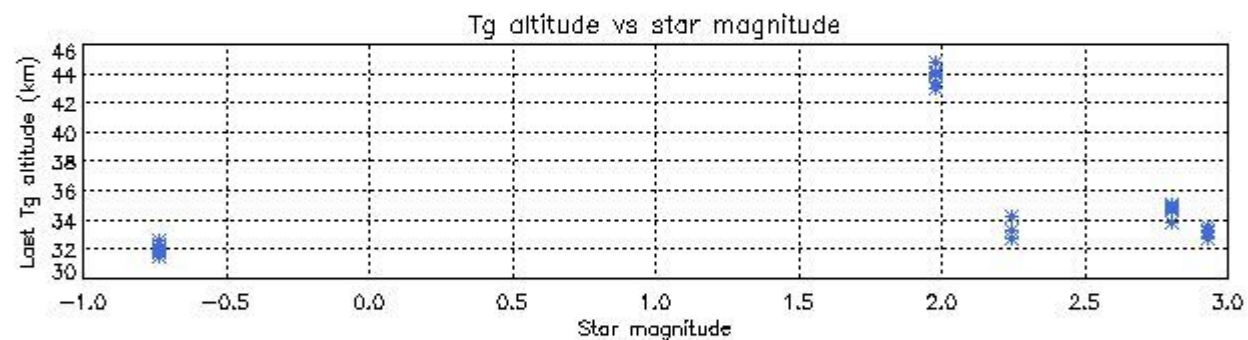
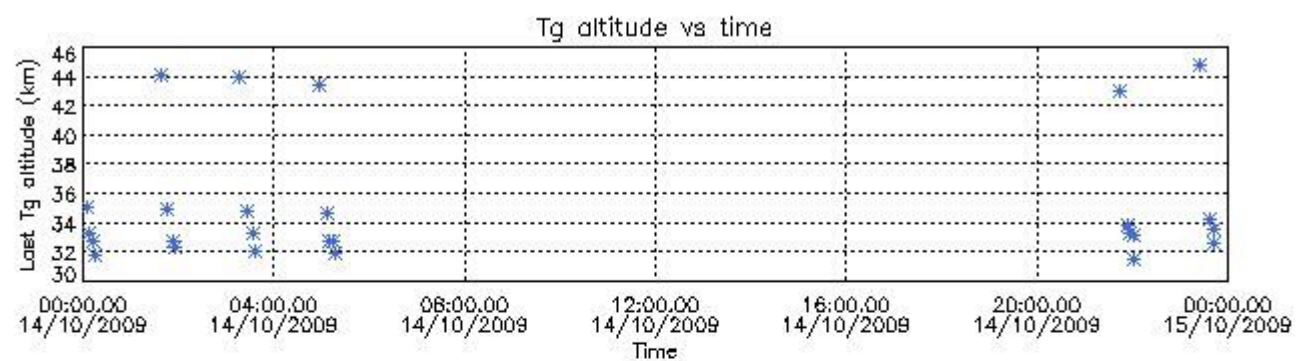
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	35.242	33.361	NaN
St. deviation:	4.3933	1.3605	NaN
Maximum:	44.807	37.305	NaN
Minimum:	31.498	32.275	NaN
Number of data:	26.000	30.000	NaN

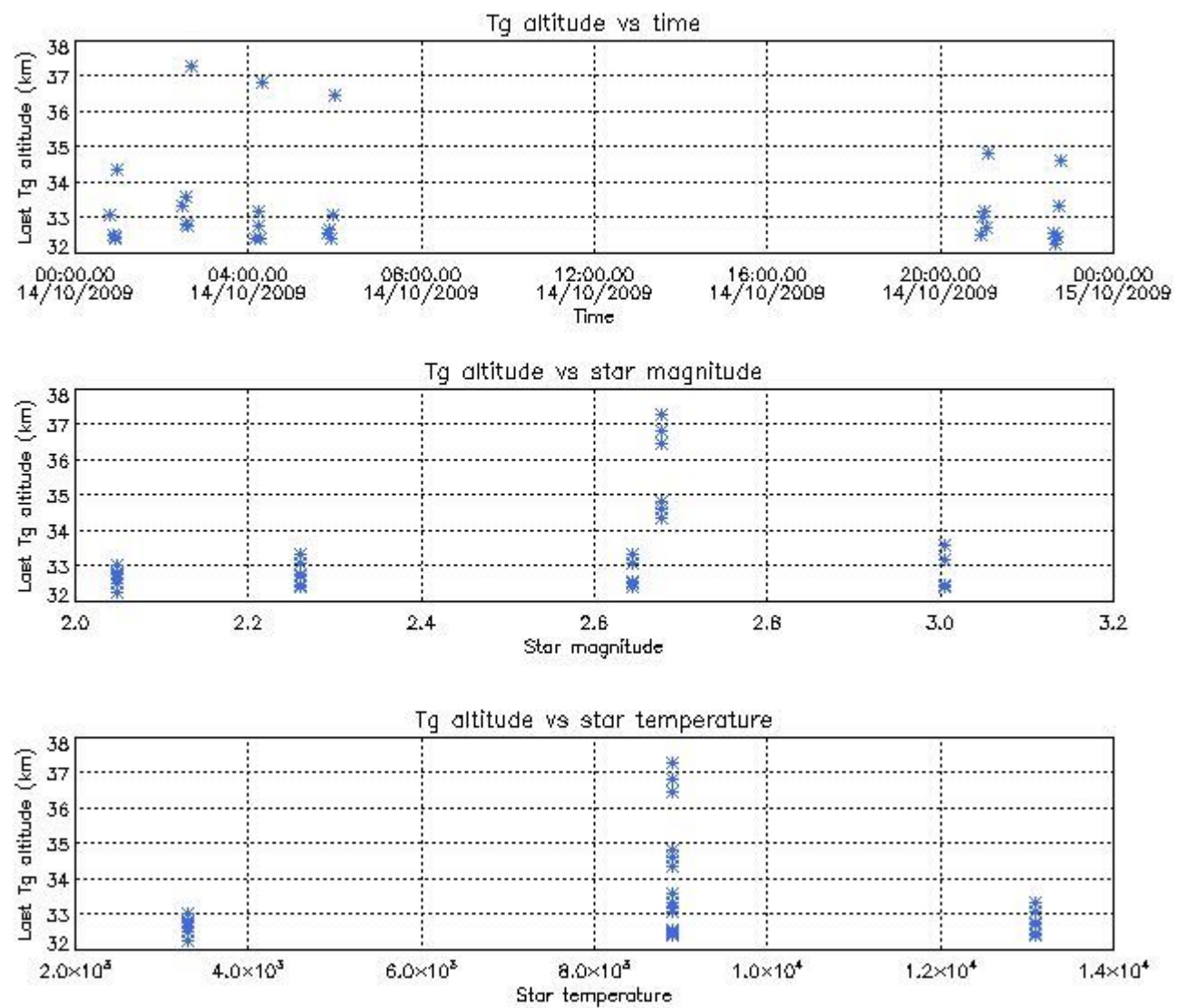
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

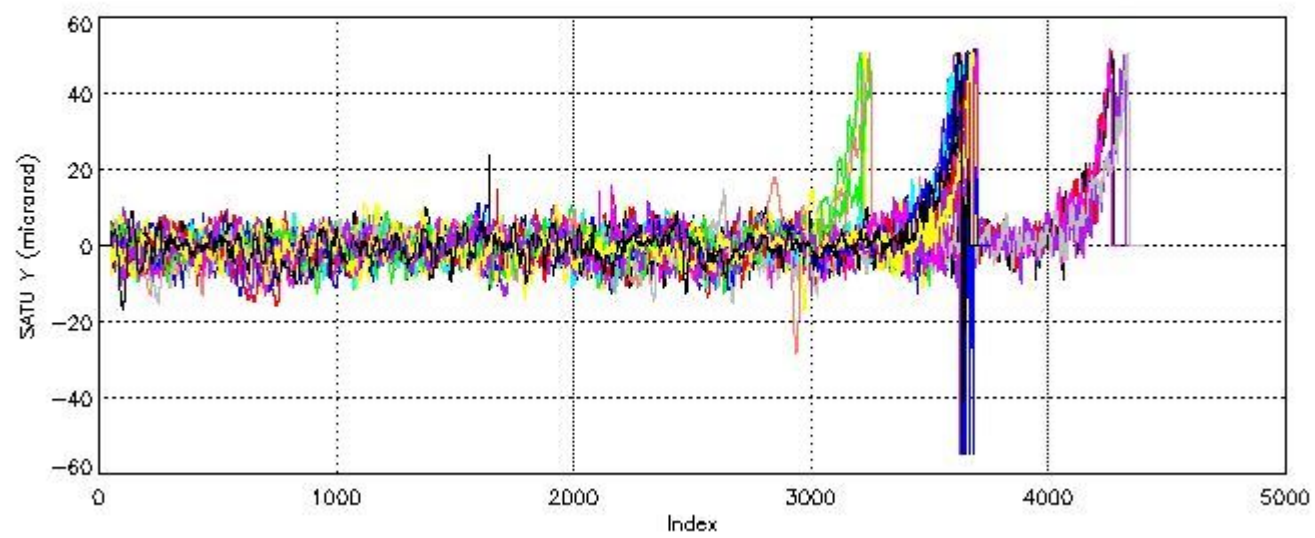
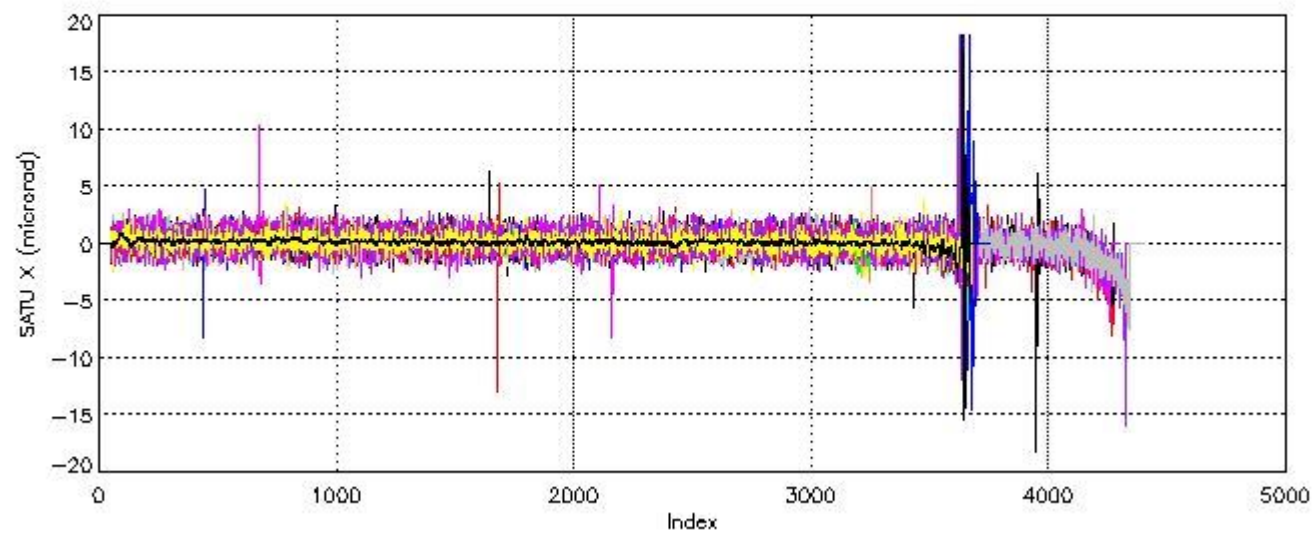


7. Star Acquisition and Tracking Unit (SATU)

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:	0.22402	-0.90287	0.29567	-1.1384
St. deviation:	0.49840	3.2131	0.92675	3.7869
Maximum:	10.400	10.100	6.1000	10.700
Minimum:	-8.2000	-16.600	-5.4000	-26.700

Number of data:	28250.	28250.	32400.	32400.
-----------------	--------	--------	--------	--------

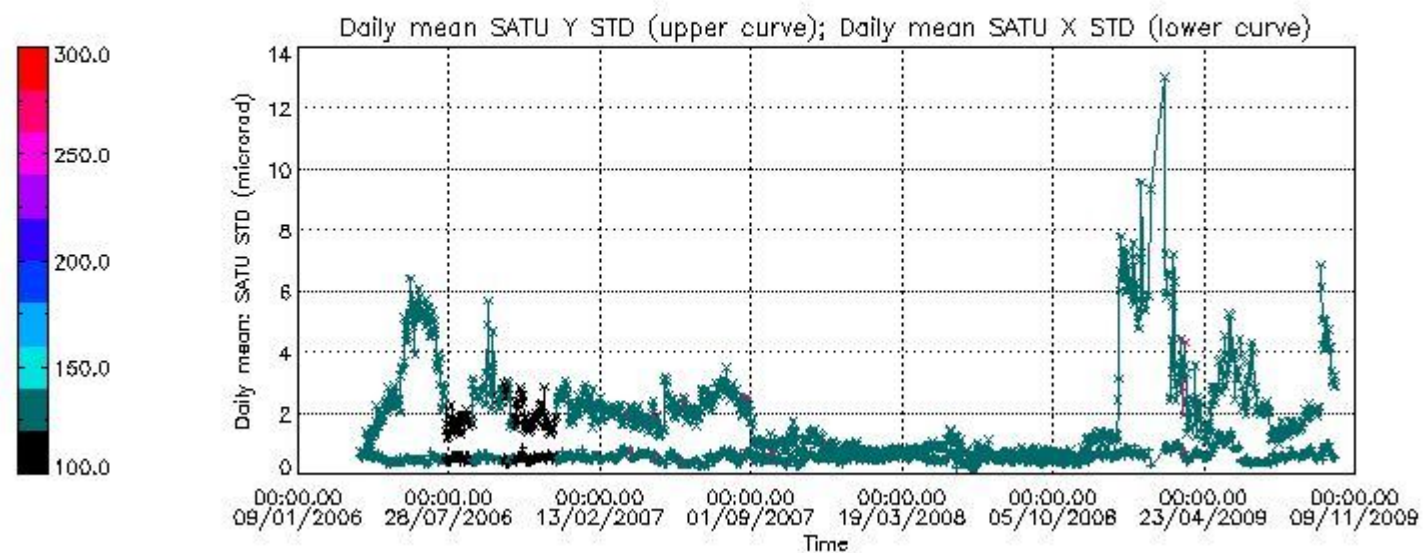
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

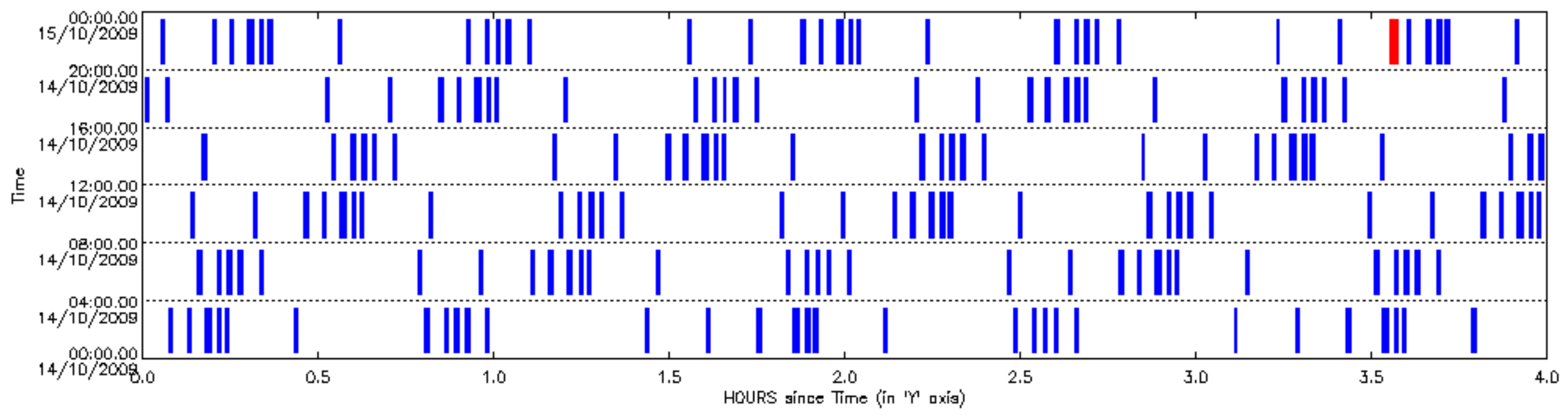
Lower curve: STD of SATU X axis

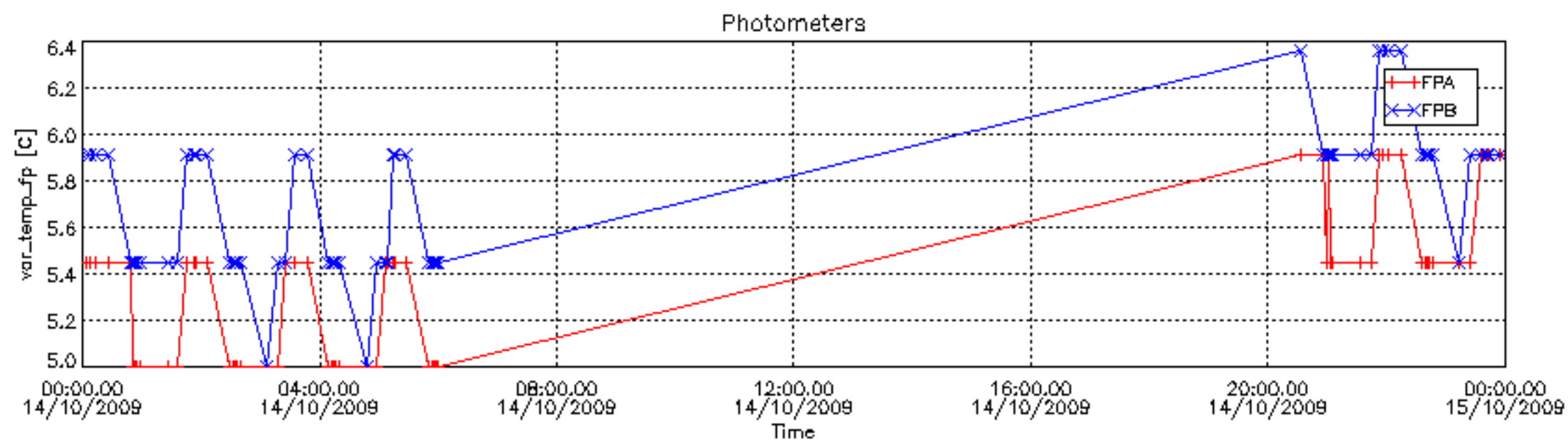
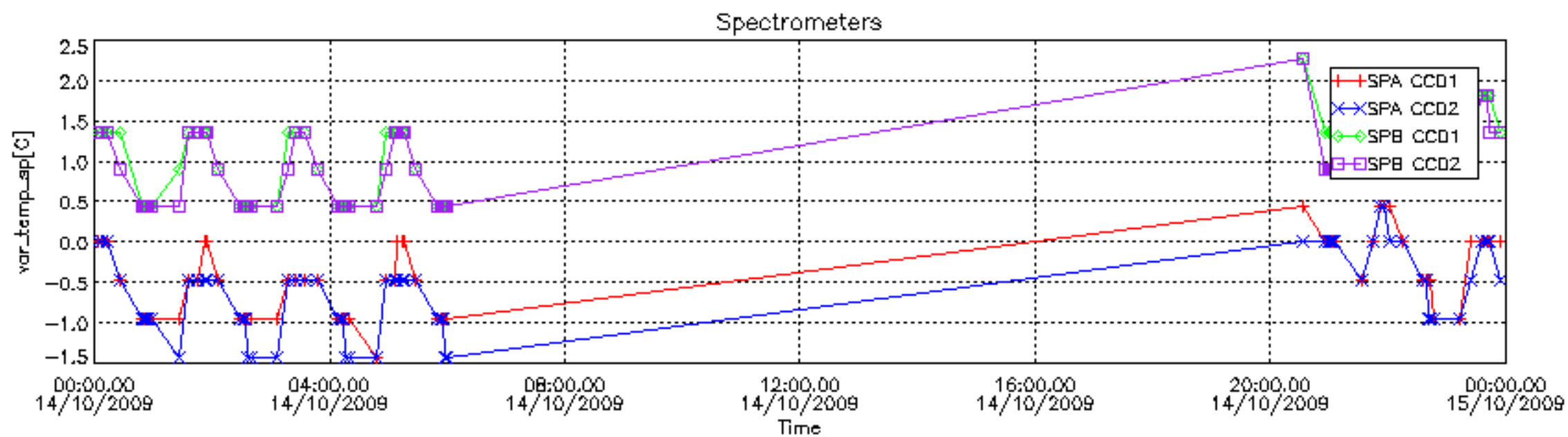


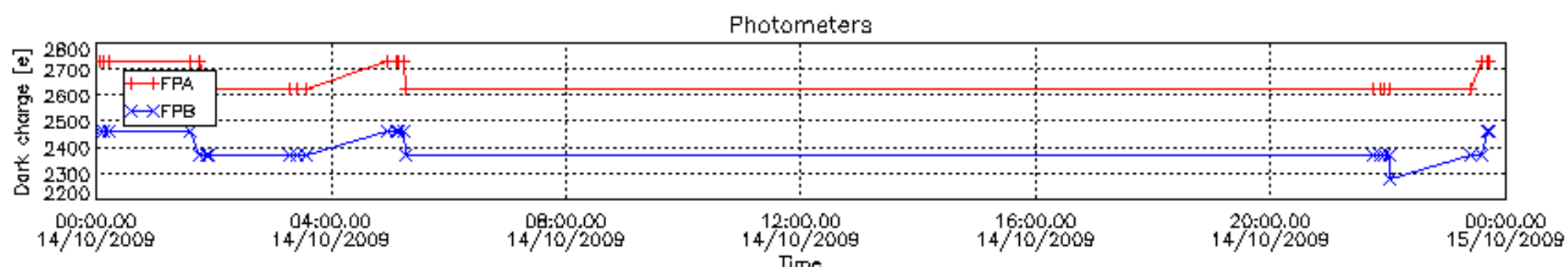
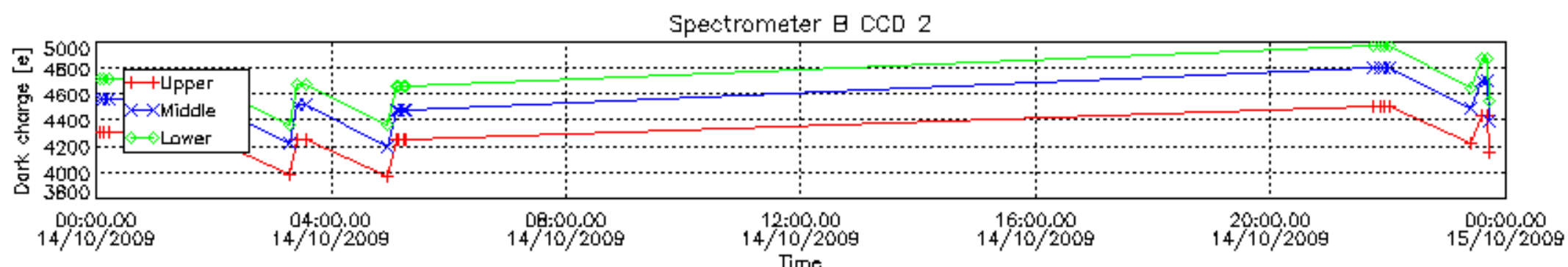
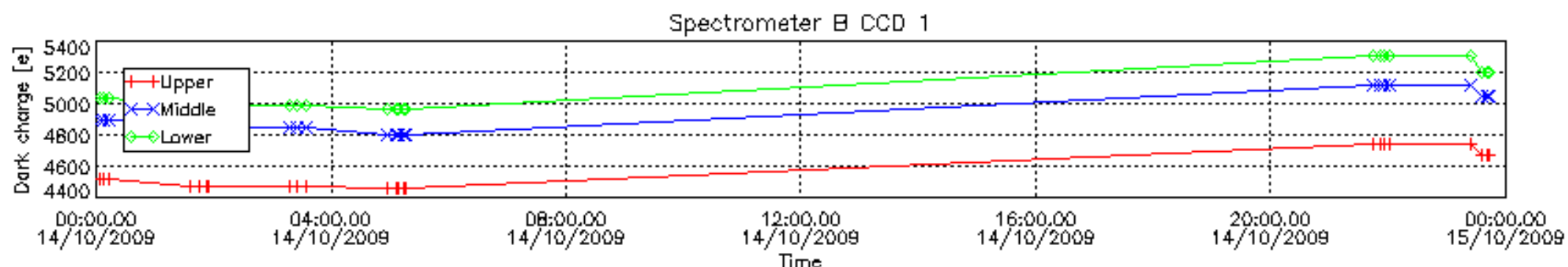
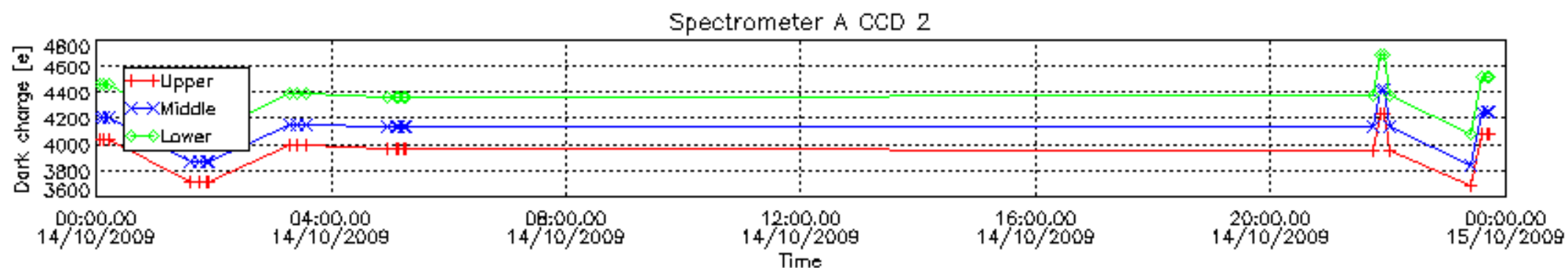
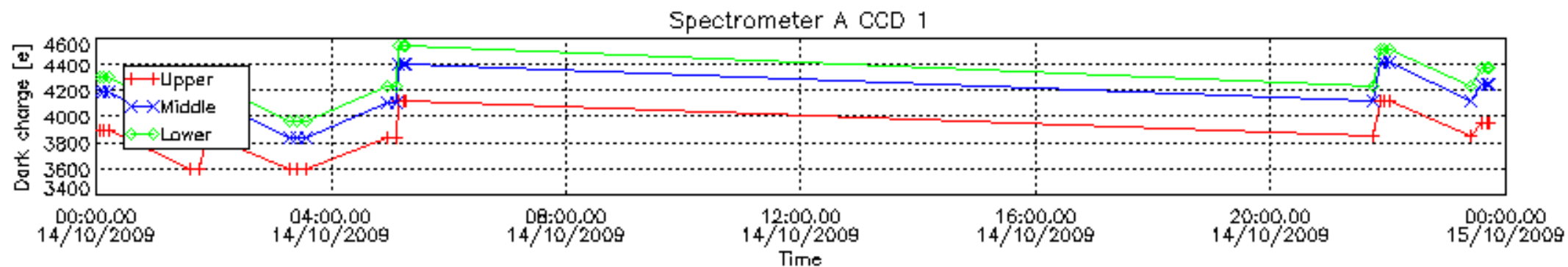
8. Auxiliary Data Files used for the production reported in section 2.4

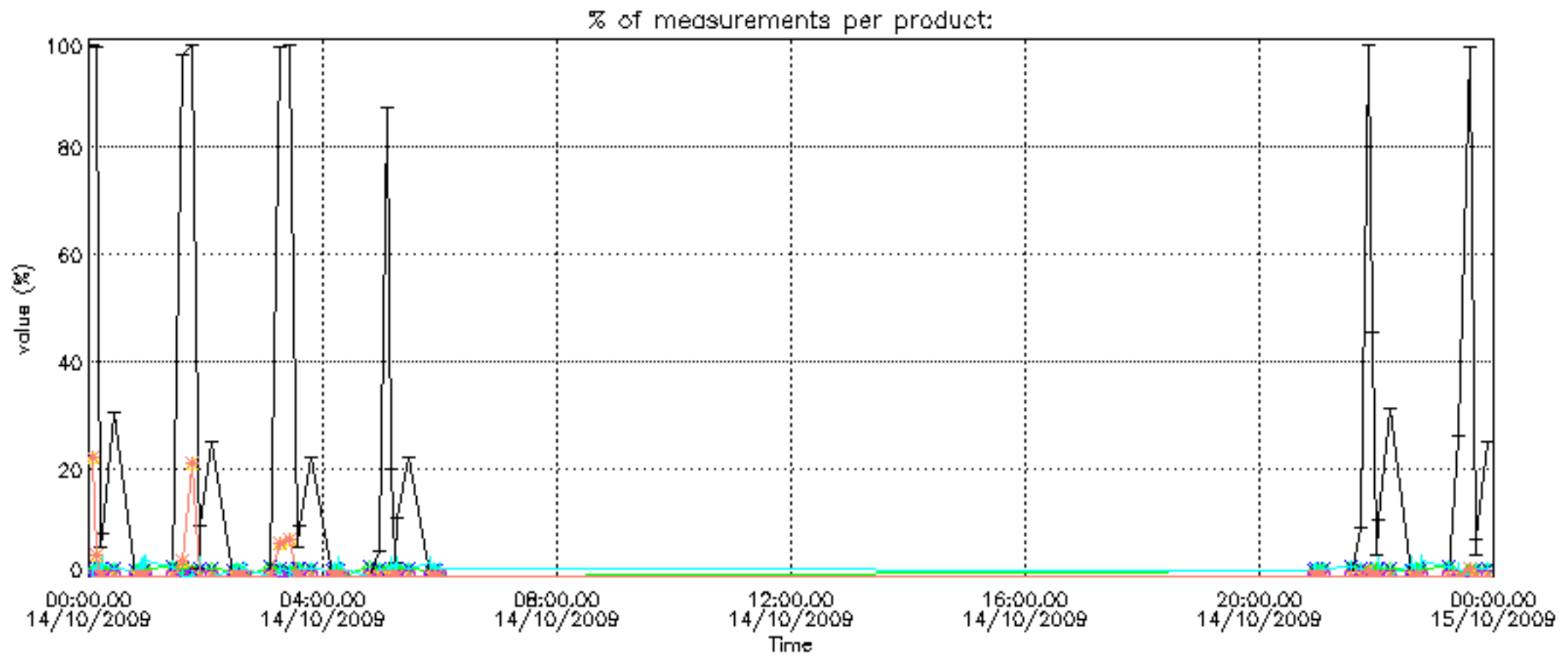
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	14-OCT-2009 00:04:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091013_072825_20091011_000000_20100101_000000	1	14-OCT-2009 00:04:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-OCT-2009 00:04:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-OCT-2009 00:04:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-OCT-2009 00:04:24
ECMWF_FILE	AUX_ECF_AXNECM20091013_100114_20091013_210000_20091014_090000	1	14-OCT-2009 00:04:24
ECMWF_FILE	AUX_ECF_AXNECM20091014_162813_20091014_150000_20091015_030000	45	14-OCT-2009 20:33:15
ECMWF_FILE	AUX_ECF_AXNECM20091014_162813_20091014_210000_20091015_090000	52	14-OCT-2009 21:43:41
OPTIONAL_ECMWF_FILE	MISSING	1	14-OCT-2009 00:04:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091013_235109_000057382083_00216_39849_8961.N1	1	14-OCT-2009 00:04:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091014_013206_000044632083_00217_39850_8962.N1	12	14-OCT-2009 01:36:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091014_025148_000054192083_00218_39851_8963.N1	22	14-OCT-2009 03:06:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091014_042726_000057382083_00219_39852_8964.N1	33	14-OCT-2009 04:47:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091014_202907_000038252083_00229_39862_8965.N1	45	14-OCT-2009 20:33:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091014_213811_000060572083_00229_39862_8966.N1	52	14-OCT-2009 21:43:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091014_232427_000057382083_00230_39863_8967.N1	65	14-OCT-2009 23:36:07

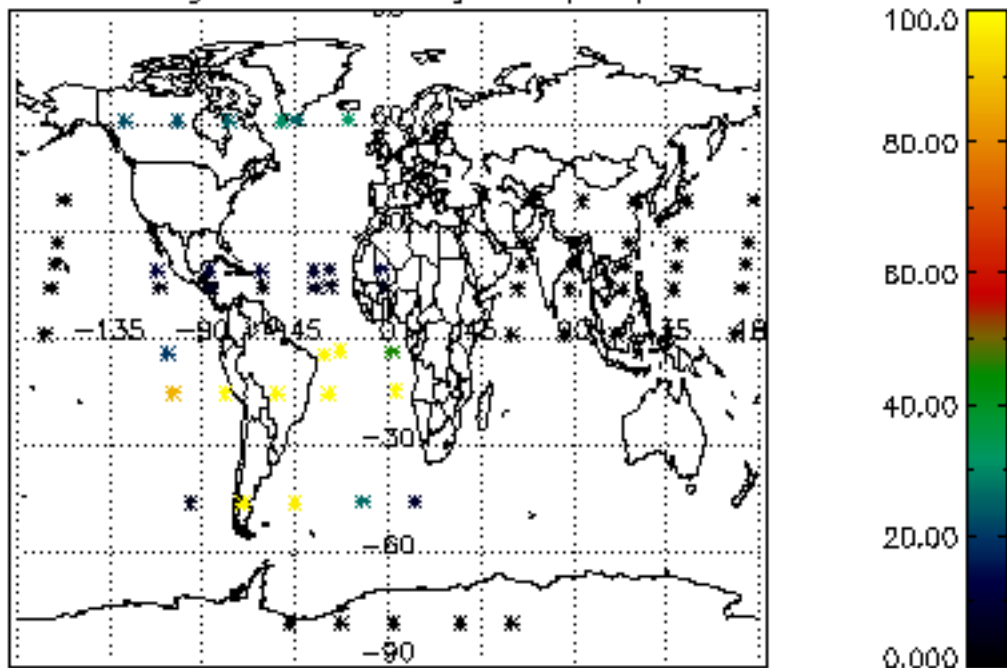




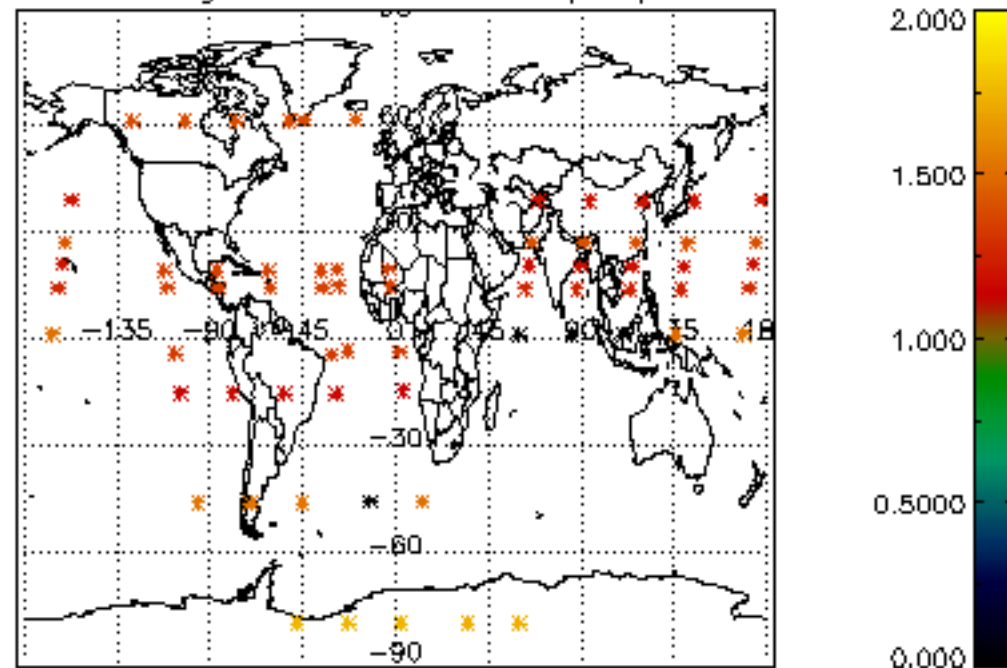




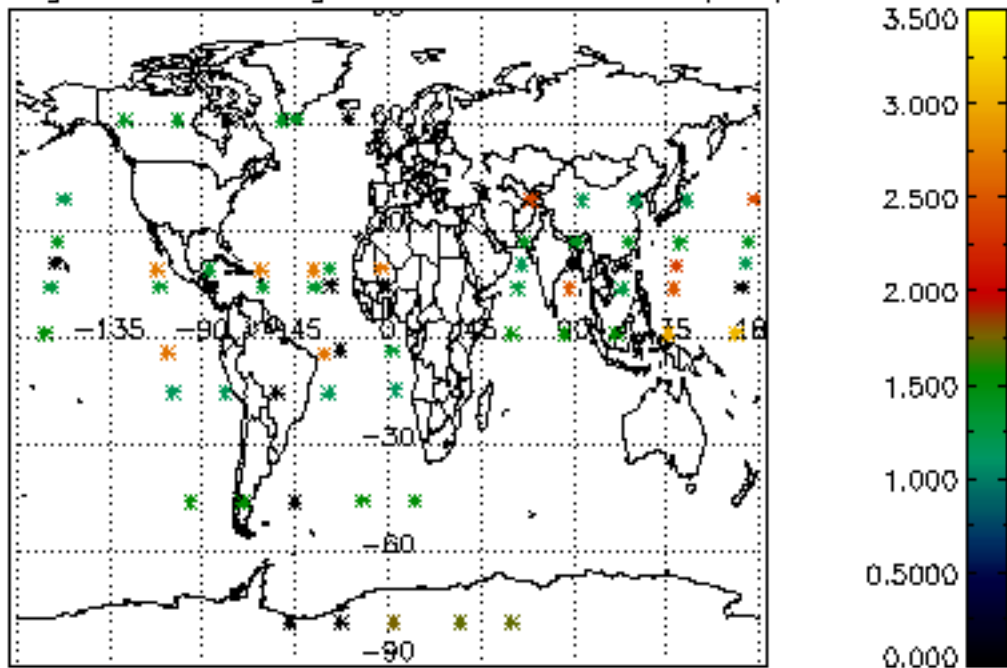
Percentage of cosmic ray hits per profile



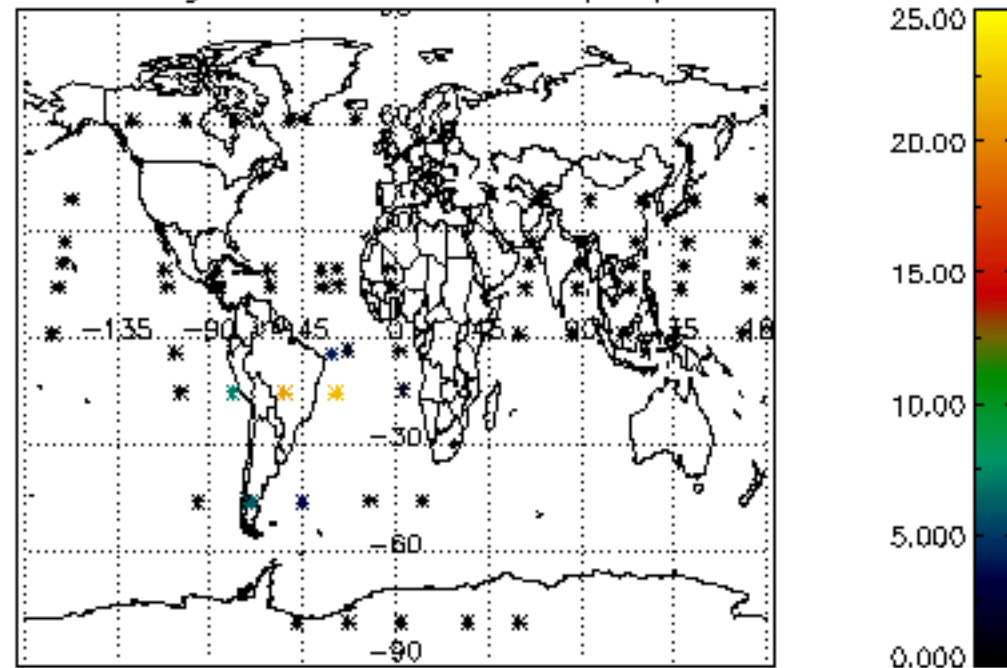
Percentage of datation errors per profile



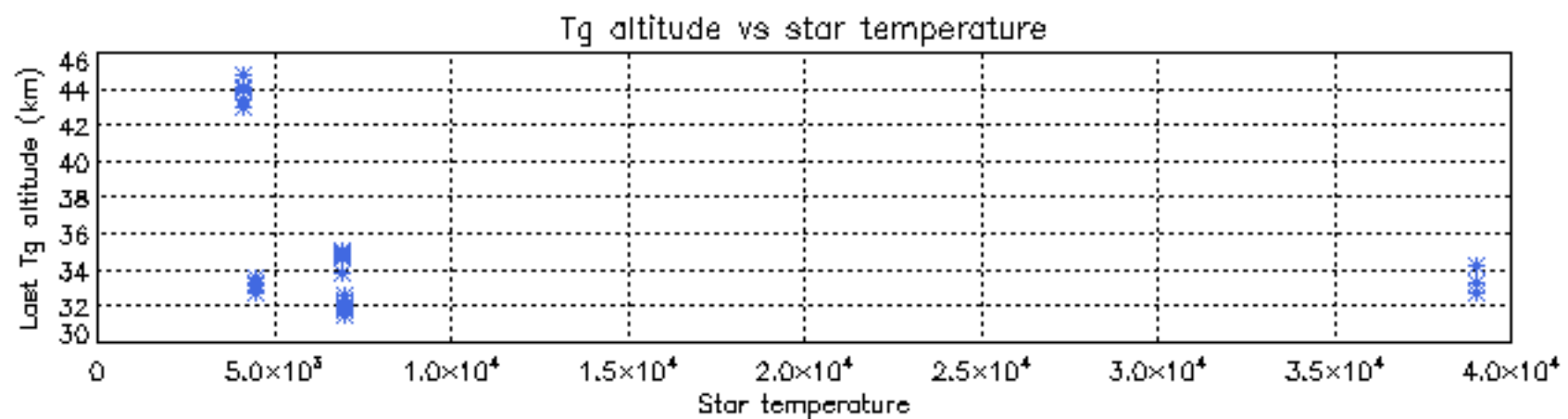
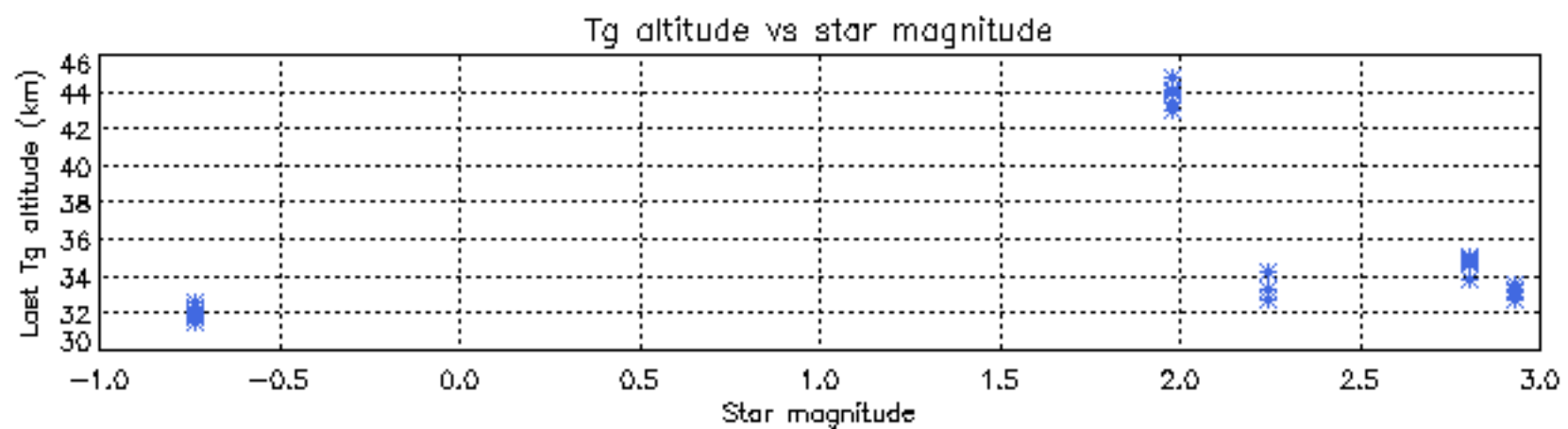
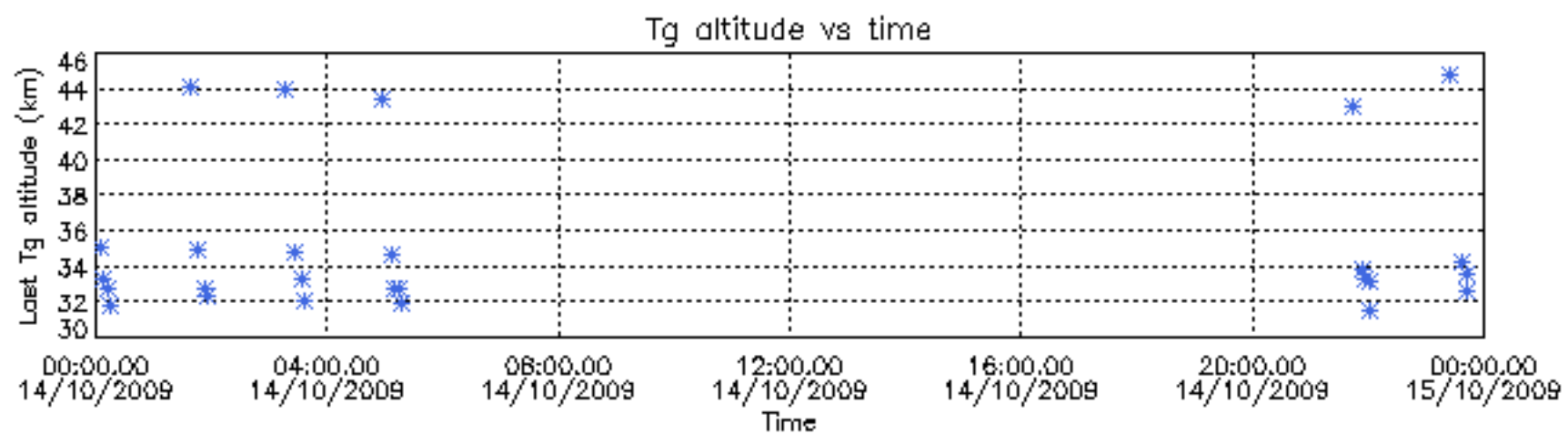
Percentage of star falling outside central band per profile



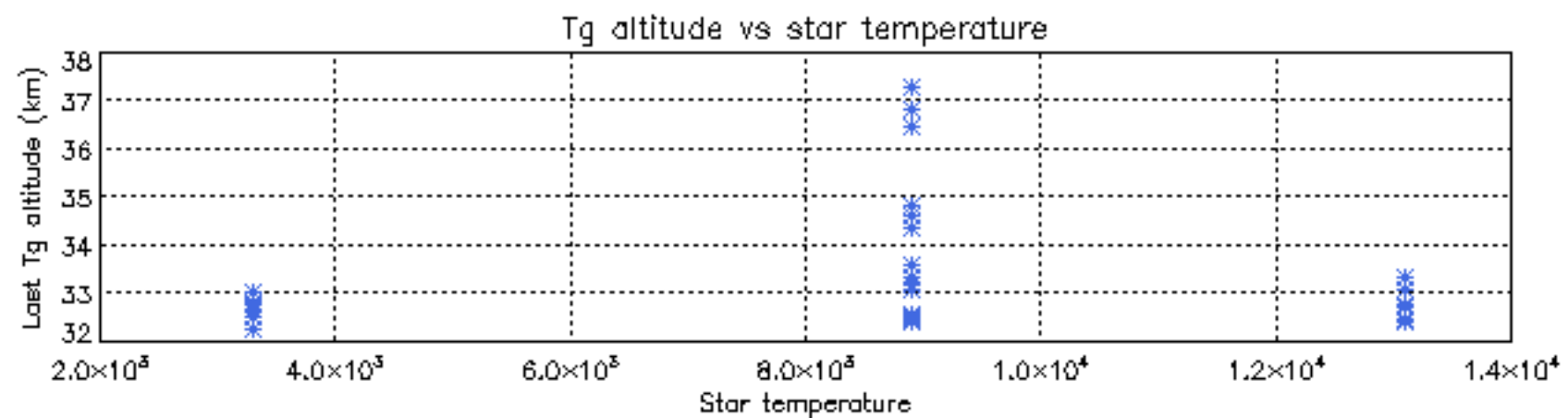
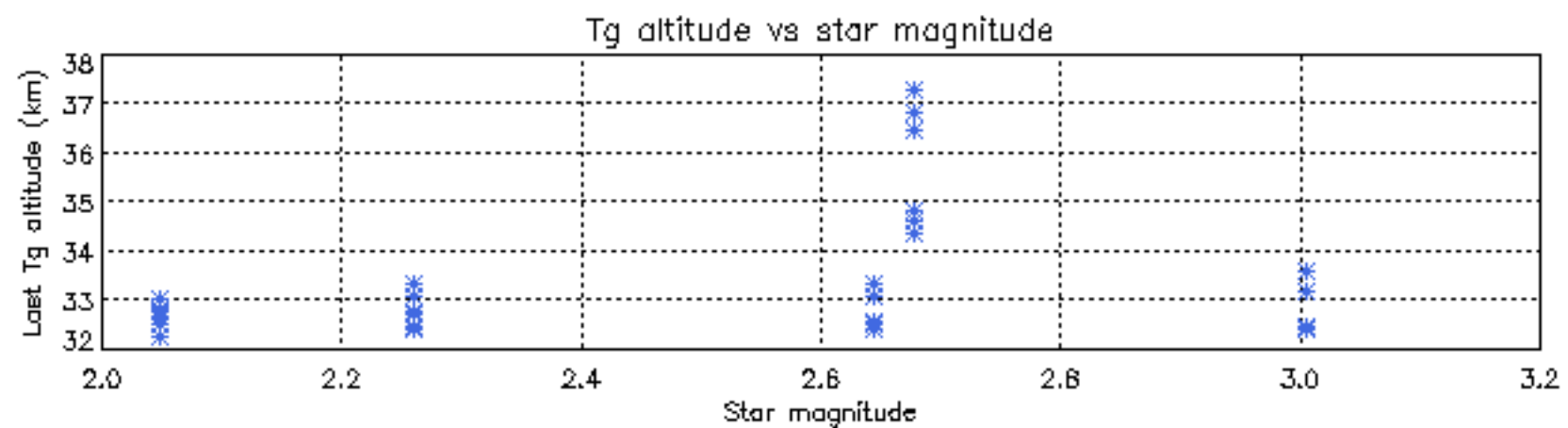
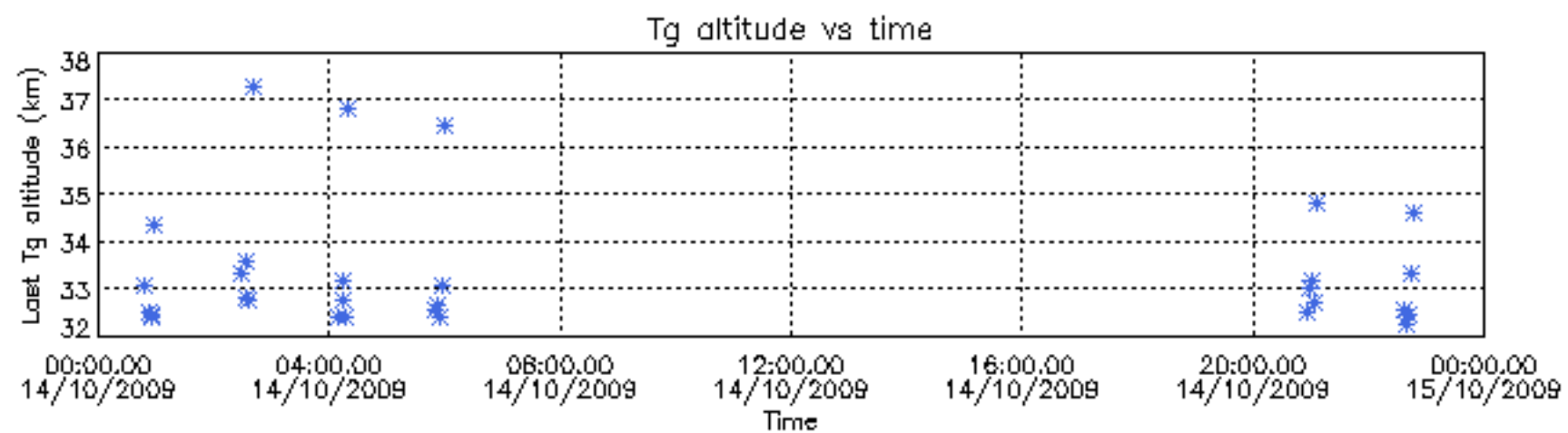
Percentage of saturation errors per profile

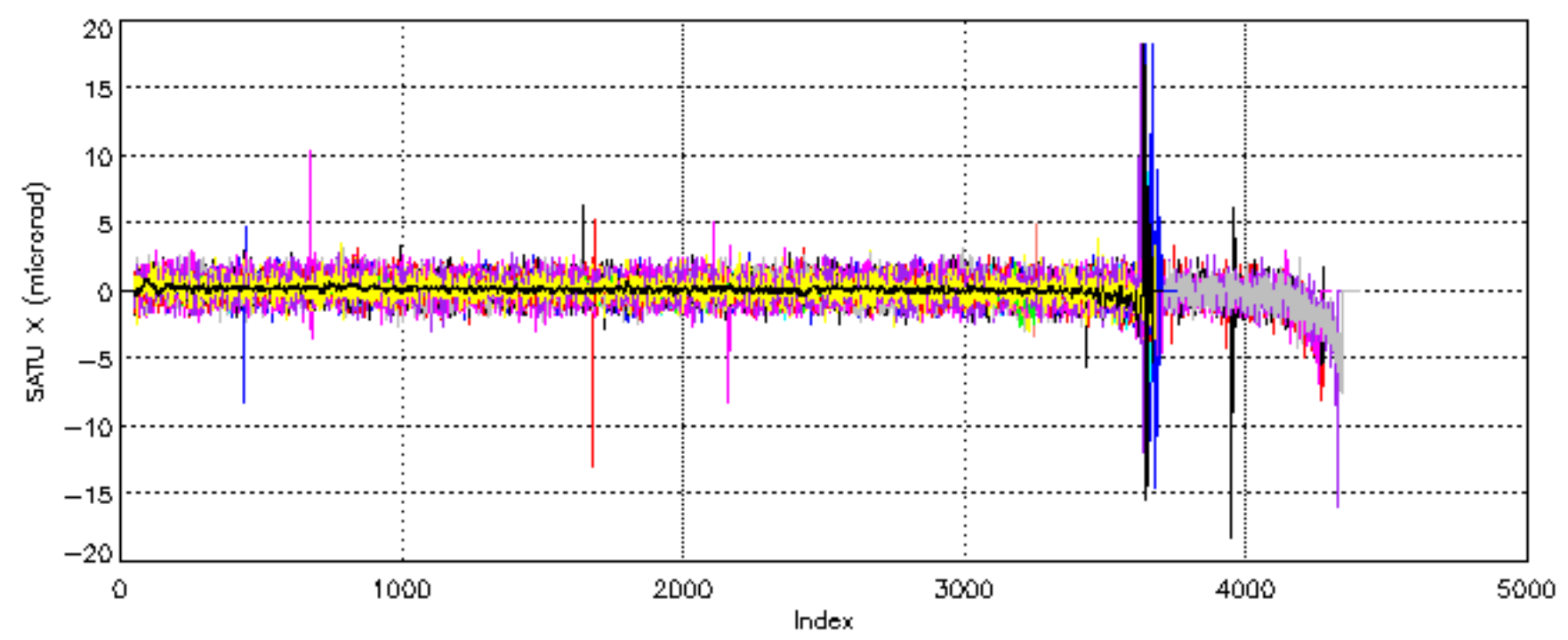


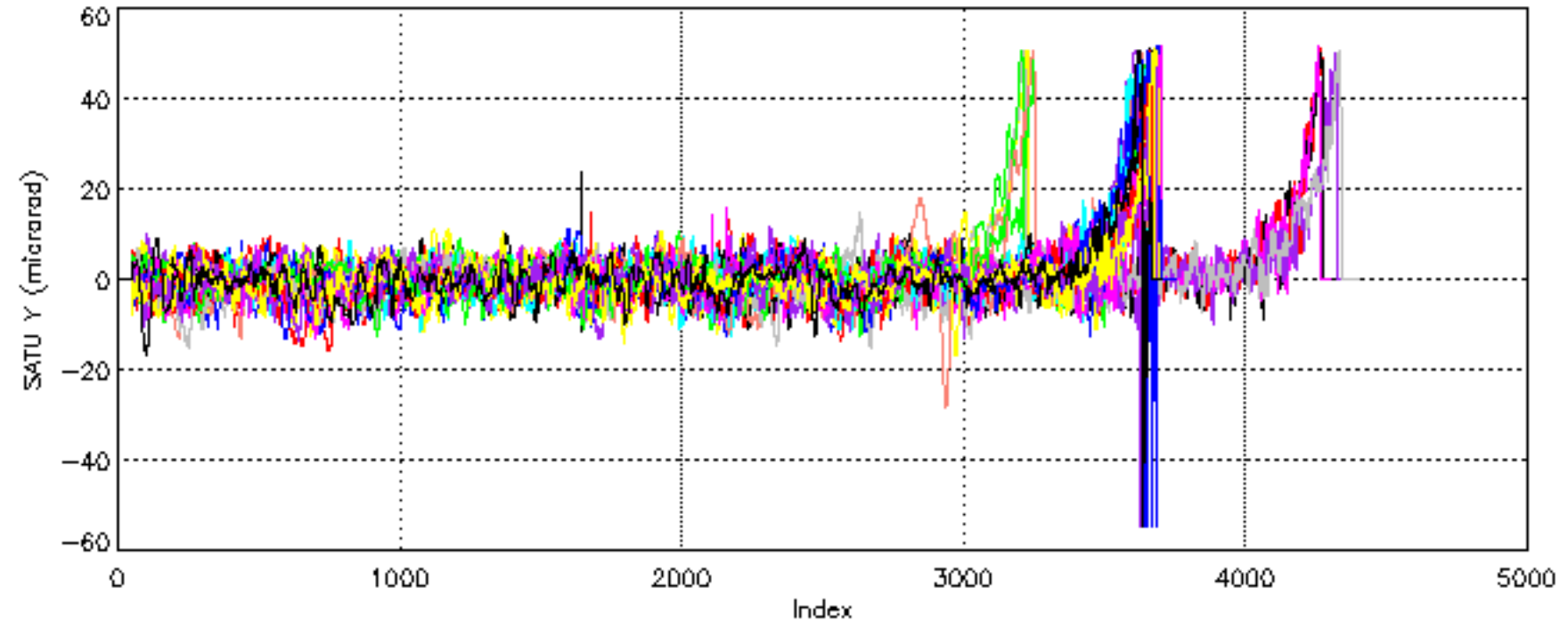
Tangent altitude at which the star is lost

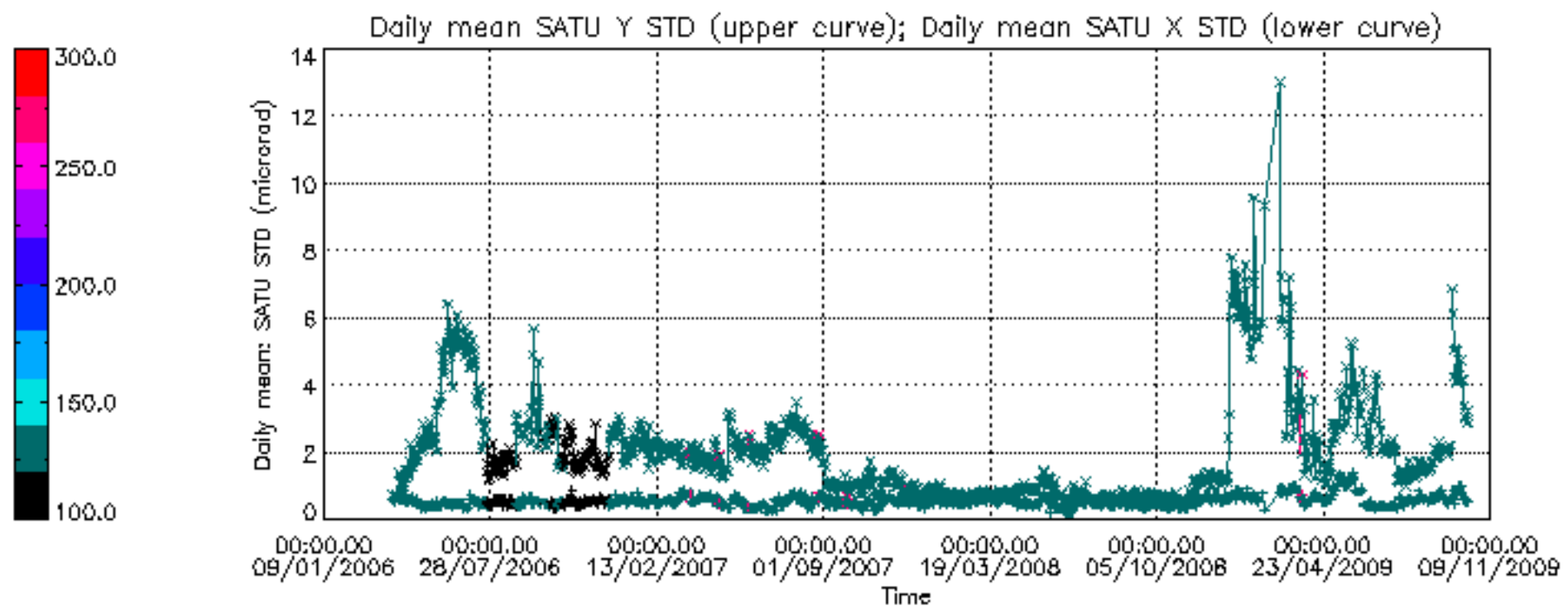


Tangent altitude at which the star is lost









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2; -232.4; 01-OCT-2009 00:13:29; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39663
3; -128.1; 01-OCT-2009 00:15:14; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39663
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
6; 915.5; 01-OCT-2009 00:32:37; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39664
7; 1557.3; 01-OCT-2009 00:43:19; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;39664
8; 2184.9; 01-OCT-2009 00:53:47; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39664
9; 2434.7; 01-OCT-2009 00:57:57; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39664
10; 2659.8; 01-OCT-2009 01:01:42; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39664
11; 2945.5; 01-OCT-2009 01:06:27; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39664
12; 3031.5; 01-OCT-2009 01:07:53; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39664
13; 4601.5; 01-OCT-2009 01:34:03; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39664

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2; -231.2; 01-OCT-2009 01:54:07; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39664
3; -126.7; 01-OCT-2009 01:55:51; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39664
4; 98.5; 01-OCT-2009 01:59:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39665
5; 306.9; 01-OCT-2009 02:03:05; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39665
6; 915.7; 01-OCT-2009 02:13:14; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39665
7; 1557.1; 01-OCT-2009 02:23:55; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39665
8; 2184.6; 01-OCT-2009 02:34:22; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39665
9; 2434.7; 01-OCT-2009 02:38:32; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39665
10; 2659.2; 01-OCT-2009 02:42:17; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39665
11; 2945.0; 01-OCT-2009 02:47:03; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39665
12; 3031.4; 01-OCT-2009 02:48:29; Bright; 33.5; 76; 27Gam Cas ; 2.30; 30000;occ; 67; 0;39665

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3; -230.0; 01-OCT-2009 03:34:44; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39665
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5; 99.7; 01-OCT-2009 03:40:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39666
6; 917.1; 01-OCT-2009 03:53:51; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39666
7; 1557.3; 01-OCT-2009 04:04:31; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39666
8; 2184.5; 01-OCT-2009 04:14:58; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39666
9; 2434.3; 01-OCT-2009 04:19:08; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39666
10; 2658.5; 01-OCT-2009 04:22:52; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39666
11; 2944.9; 01-OCT-2009 04:27:39; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39666
12; 3031.0; 01-OCT-2009 04:29:05; Bright; 33.5; 76; 27Gam Cas ; 2.30; 30000;occ; 67; 0;39666

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2; -447.2; 01-OCT-2009 05:11:43; Dark ; 36.0; 132; 15Rho Pup ; 2.80; 6900;occ; 72; 0;39666
3; -229.1; 01-OCT-2009 05:15:21; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39666
4; -124.5; 01-OCT-2009 05:17:05; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;39666
5; 100.8; 01-OCT-2009 05:20:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39667
6; 917.8; 01-OCT-2009 05:34:28; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39667
7; 1557.6; 01-OCT-2009 05:45:07; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;39667
8; 2184.7; 01-OCT-2009 05:55:34; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;39667
9; 2433.9; 01-OCT-2009 05:59:44; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39667
10; 2657.7; 01-OCT-2009 06:03:27; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;39667
11; 2944.1; 01-OCT-2009 06:08:14; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39667
12; 3030.2; 01-OCT-2009 06:09:40; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39667

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2; 2182.6; 01-OCT-2009 21:00:56; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;39676
3; 2431.2; 01-OCT-2009 21:05:04; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39676
4; 2651.9; 01-OCT-2009 21:08:45; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39676
5; 2940.9; 01-OCT-2009 21:13:34; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39676
6; 3026.8; 01-OCT-2009 21:15:00; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39676
7; 4604.6; 01-OCT-2009 21:41:18; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;39676

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3; -111.3; 01-OCT-2009 22:03:18; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39676
4; 113.2; 01-OCT-2009 22:07:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39677
5; 325.1; 01-OCT-2009 22:10:34; Dark ; 60.5; 108; Alp Col ; 2.65; 15200;occ; 121; 0;39677
6; 925.3; 01-OCT-2009 22:20:34; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;39677

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7; 1558.9; 01-OCT-2009 22:31:08; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39677
8; 2182.5; 01-OCT-2009 22:41:32; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;39677
9; 2431.3; 01-OCT-2009 22:45:40; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39677
10; 2651.2; 01-OCT-2009 22:49:20; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39677
11; 2940.6; 01-OCT-2009 22:54:10; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39677
12; 3026.5; 01-OCT-2009 22:55:36; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39677
13; 4604.8; 01-OCT-2009 23:21:54; Bright; 37.5; 17; 78Bet Gem ; 1.16; 4500;occ; 75; 0;39677
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9; 2430.9; 02-OCT-2009 00:26:16; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39678
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12; 3026.1; 02-OCT-2009 00:36:11; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39678
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7; 918.5; 01-OCT-2009 07:15:04; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39668
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3; 2657.1; 01-OCT-2009 07:44:03; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;39668
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3; 2656.6; 01-OCT-2009 09:24:38; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39669
4; 2943.5; 01-OCT-2009 09:29:25; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39669
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7; 5591.4; 01-OCT-2009 10:13:33; Dark ; 35.5; 132; 15Rho Pup ; 2.80; 6900;occ; 71; 0;39669
8; 5810.2; 01-OCT-2009 10:17:12; Dark ; 40.5; 88; 31Eta CMA ; 2.45; 20000;occ; 81; 0;39669
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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
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11; 6142.5; 01-OCT-2009 13:43:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39671
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4; 2654.6; 01-OCT-2009 14:26:24; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39672
5; 2942.4; 01-OCT-2009 14:31:12; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39672
6; 3028.5; 01-OCT-2009 14:32:38; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39672
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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
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6; 3029.5; 01-OCT-2009 16:13:15; Bright; 16.0; 76; 27Gam Cas ; 2.30; 30000;occ; 32; 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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8; 1087.4; 22-OCT-2009 04:36:56; Dark ; 34.0; 157; The1Eri ; 2.91; 9300;occ; 68; 0;39967
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5; 6296.2; 25-OCT-2009 12:51:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40014
6; 6486.4; 25-OCT-2009 12:55:04; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;40014
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2; 2573.1; 25-OCT-2009 13:30:26; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40015
3; 2692.5; 25-OCT-2009 13:32:26; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40015
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2; 2568.9; 26-OCT-2009 06:16:22; Bright; 2.0; 173; 4Bet Tri ; 3.00; 8900;occ; 4; 0;40025
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3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
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4; 6163.3; 26-OCT-2009 13:58:40; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40029
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3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
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