

GOMOS Daily Report 03-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	05OCT2009 04:32:53
Data source version	GOMOS/5.00L03
Start time of products	03OCT2009 00:03:03
Stop time of products	03OCT2009 23:32:47
Store outputs in DB	Yes
Nb of level 1b prods	74
Nb of prods with errors	0

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

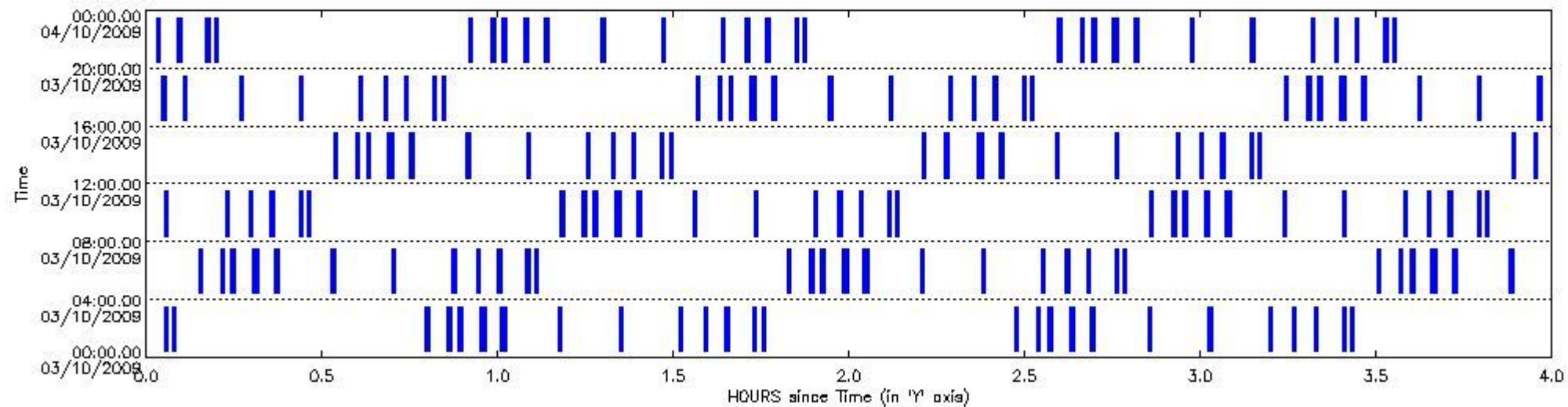
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

No missing products.

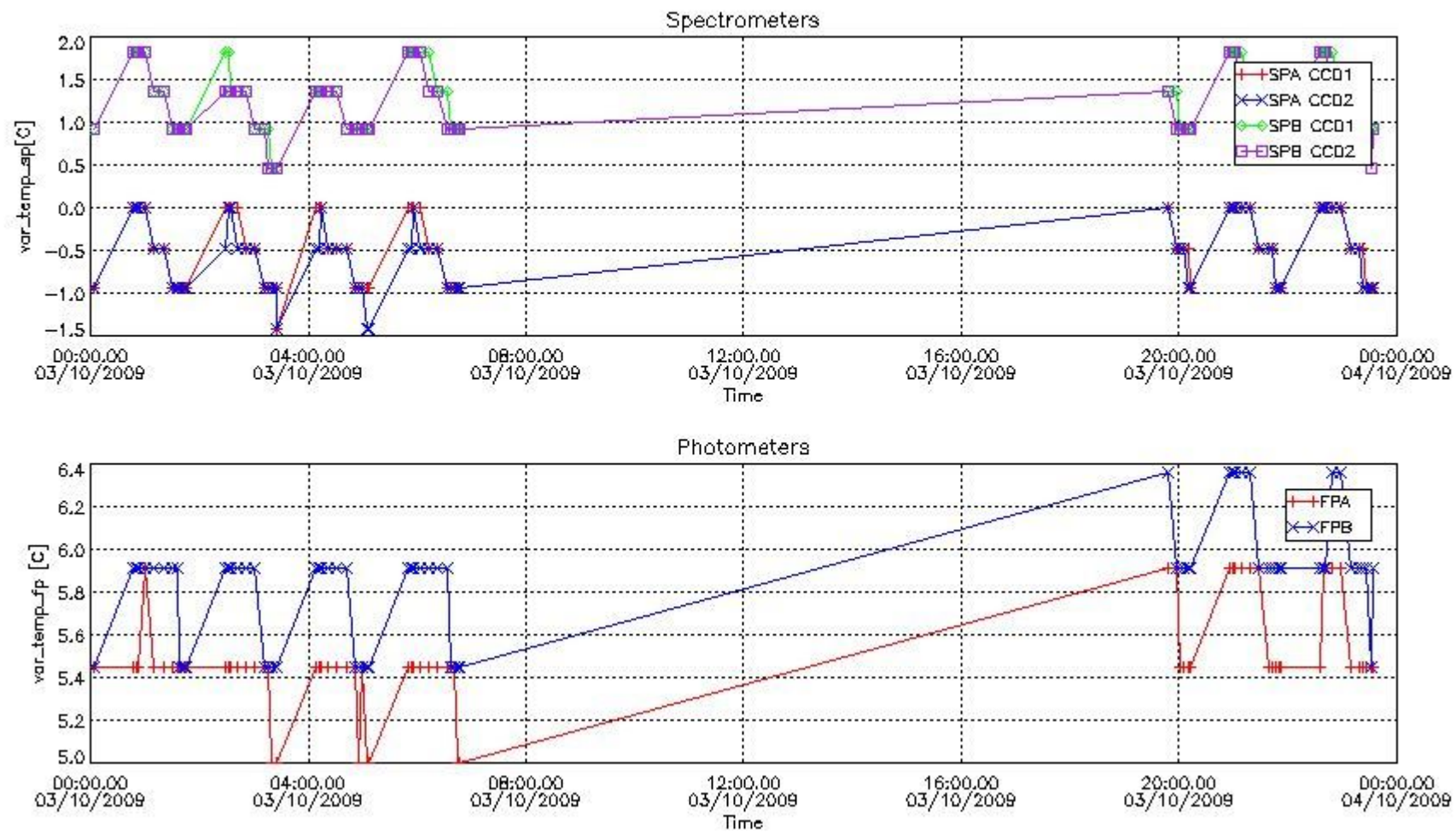
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091003_000303_000000352083_00059_39692_9048.N1	03-OCT-2009 00:03:03	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	39692	No
2	GOM_TRA_1PNPDE20091003_000429_000000342083_00059_39692_9049.N1	03-OCT-2009 00:04:29	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39692	No
3	GOM_TRA_1PNPDE20091003_004739_000000372083_00059_39692_9045.N1	03-OCT-2009 00:47:39	Dark	37.000	132	15Rho Pup	2.8030	6900.0	74	39692	No
4	GOM_TRA_1PNPDE20091003_005123_000000422083_00059_39692_9046.N1	03-OCT-2009 00:51:23	Dark	41.500	88	31Eta CMa	2.4480	20000.	83	39692	No
5	GOM_TRA_1PNPDE20091003_005314_000000472083_00059_39692_9047.N1	03-OCT-2009 00:53:14	Dark	47.000	23	21Eps CMa	1.5020	26000.	94	39692	No
6	GOM_TRA_1PNPDE20091003_010034_000000542083_00060_39693_9048.N1	03-OCT-2009 01:00:34	Dark	54.000	108	Alp Col	2.6520	15200.	108	39693	No
7	GOM_TRA_1PNPDE20091003_011020_000000412083_00060_39693_9049.N1	03-OCT-2009 01:10:20	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	39693	No
8	GOM_TRA_1PNPDE20091003_012045_000000342083_00060_39693_9050.N1	03-OCT-2009 01:20:45	Straylight	34.000	52	16Bet Cet	2.0370	4500.0	68	39693	No
9	GOM_TRA_1PNPDE20091003_013104_000000352083_00060_39693_9051.N1	03-OCT-2009 01:31:04	Bright	34.500	140	88Gam Peg	2.8340	26000.	69	39693	No
10	GOM_TRA_1PNPDE20091003_013511_000000352083_00060_39693_9052.N1	03-OCT-2009 01:35:11	Bright	35.000	58	21Alp And	2.0730	11000.	70	39693	No
11	GOM_TRA_1PNPDE20091003_013845_000000412083_00060_39693_9053.N1	03-OCT-2009 01:38:45	Bright	41.000	53	43Bet And	2.0480	3300.0	82	39693	No
12	GOM_TRA_1PNPDE20091003_014339_000000352083_00060_39693_9054.N1	03-OCT-2009 01:43:39	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	39693	No

13	GOM_TRA_1PNPDE20091003_014504_000000342083_00060_39693_9055.N1	03-OCT-2009 01:45:04	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39693	No
14	GOM_TRA_1PNPDE20091003_022816_000000372083_00060_39693_9055.N1	03-OCT-2009 02:28:16	Dark	37.000	132	15Rho Pup	2.8030	6900.0	74	39693	No
15	GOM_TRA_1PNPDE20091003_023200_000000422083_00060_39693_9056.N1	03-OCT-2009 02:32:00	Dark	42.000	88	31Eta CMa	2.4480	20000.	84	39693	No
16	GOM_TRA_1PNPDE20091003_023351_000000472083_00060_39693_9057.N1	03-OCT-2009 02:33:51	Dark	47.000	23	21Eps CMa	1.5020	26000.	94	39693	No
17	GOM_TRA_1PNPDE20091003_024111_000000542083_00061_39694_9058.N1	03-OCT-2009 02:41:11	Dark	53.500	108	Alp Col	2.6520	15200.	107	39694	No
18	GOM_TRA_1PNPDE20091003_025056_000000412083_00061_39694_9059.N1	03-OCT-2009 02:50:56	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	39694	No
19	GOM_TRA_1PNPDE20091003_030122_000000342083_00061_39694_9060.N1	03-OCT-2009 03:01:22	Straylight	34.000	52	16Bet Cet	2.0370	4500.0	68	39694	No
20	GOM_TRA_1PNPDE20091003_031139_000000352083_00061_39694_9061.N1	03-OCT-2009 03:11:39	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	39694	No
21	GOM_TRA_1PNPDE20091003_031547_000000352083_00061_39694_9062.N1	03-OCT-2009 03:15:47	Bright	35.000	58	21Alp And	2.0730	11000.	70	39694	No
22	GOM_TRA_1PNPDE20091003_031920_000000422083_00061_39694_9063.N1	03-OCT-2009 03:19:20	Bright	41.500	53	43Bet And	2.0480	3300.0	83	39694	No
23	GOM_TRA_1PNPDE20091003_032414_000000352083_00061_39694_9064.N1	03-OCT-2009 03:24:14	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	39694	No
24	GOM_TRA_1PNPDE20091003_032540_000000342083_00061_39694_9065.N1	03-OCT-2009 03:25:40	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39694	No
25	GOM_TRA_1PNPDE20091003_040852_000000372083_00061_39694_9060.N1	03-OCT-2009 04:08:52	Dark	37.000	132	15Rho Pup	2.8030	6900.0	74	39694	No
26	GOM_TRA_1PNPDE20091003_041238_000000422083_00061_39694_9061.N1	03-OCT-2009 04:12:38	Dark	42.000	88	31Eta CMa	2.4480	20000.	84	39694	No
27	GOM_TRA_1PNPDE20091003_041428_000000472083_00061_39694_9062.N1	03-OCT-2009 04:14:28	Dark	47.000	23	21Eps CMa	1.5020	26000.	94	39694	No
28	GOM_TRA_1PNPDE20091003_042149_000000542083_00062_39695_9063.N1	03-OCT-2009 04:21:49	Dark	54.000	108	Alp Col	2.6520	15200.	108	39695	No
29	GOM_TRA_1PNPDE20091003_043133_000000412083_00062_39695_9064.N1	03-OCT-2009 04:31:33	Straylight	41.000	157	The1Eri	2.9060	9300.0	82	39695	No
30	GOM_TRA_1PNPDE20091003_044157_000000342083_00062_39695_9065.N1	03-OCT-2009 04:41:57	Straylight	34.000	52	16Bet Cet	2.0370	4500.0	68	39695	No
31	GOM_TRA_1PNPDE20091003_045215_000000352083_00062_39695_9066.N1	03-OCT-2009 04:52:15	Bright	34.500	140	88Gam Peg	2.8340	26000.	69	39695	No
32	GOM_TRA_1PNPDE20091003_045622_000000352083_00062_39695_9067.N1	03-OCT-2009 04:56:22	Bright	34.500	58	21Alp And	2.0730	11000.	69	39695	No
33	GOM_TRA_1PNPDE20091003_045955_000000422083_00062_39695_9068.N1	03-OCT-2009 04:59:55	Bright	41.500	53	43Bet And	2.0480	3300.0	83	39695	No
34	GOM_TRA_1PNPDE20091003_050450_000000352083_00062_39695_9069.N1	03-OCT-2009 05:04:50	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	39695	No
35	GOM_TRA_1PNPDE20091003_050616_000000342083_00062_39695_9070.N1	03-OCT-2009 05:06:16	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39695	No
36	GOM_TRA_1PNPDE20091003_054929_000000372083_00062_39695_9070.N1	03-OCT-2009 05:49:29	Dark	37.000	132	15Rho Pup	2.8030	6900.0	74	39695	No
37	GOM_TRA_1PNPDE20091003_055314_000000432083_00062_39695_9071.N1	03-OCT-2009 05:53:14	Dark	42.500	88	31Eta CMa	2.4480	20000.	85	39695	No
38	GOM_TRA_1PNPDE20091003_055505_000000482083_00062_39695_9072.N1	03-OCT-2009 05:55:05	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	39695	No
39	GOM_TRA_1PNPDE20091003_060226_000000532083_00063_39696_9073.N1	03-OCT-2009 06:02:26	Dark	53.000	108	Alp Col	2.6520	15200.	106	39696	No
40	GOM_TRA_1PNPDE20091003_061210_000000412083_00063_39696_9074.N1	03-OCT-2009 06:12:10	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	39696	No
41	GOM_TRA_1PNPDE20091003_062233_000000352083_00063_39696_9075.N1	03-OCT-2009 06:22:33	Straylight	34.500	52	16Bet Cet	2.0370	4500.0	69	39696	No
42	GOM_TRA_1PNPDE20091003_063251_000000352083_00063_39696_9076.N1	03-OCT-2009 06:32:51	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	39696	No
43	GOM_TRA_1PNPDE20091003_063658_000000352083_00063_39696_9077.N1	03-OCT-2009 06:36:58	Bright	35.000	58	21Alp And	2.0730	11000.	70	39696	No
44	GOM_TRA_1PNPDE20091003_064030_000000422083_00063_39696_9078.N1	03-OCT-2009 06:40:30	Bright	41.500	53	43Bet And	2.0480	3300.0	83	39696	No
45	GOM_TRA_1PNPDE20091003_064525_000000352083_00063_39696_9079.N1	03-OCT-2009 06:45:25	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	39696	No
46	GOM_TRA_1PNPDE20091003_064651_000000342083_00063_39696_9080.N1	03-OCT-2009 06:46:51	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39696	No
47	GOM_TRA_1PNPDE20091003_194722_000000362083_00071_39704_9107.N1	03-OCT-2009 19:47:22	Straylight	35.500	52	16Bet Cet	2.0370	4500.0	71	39704	No
48	GOM_TRA_1PNPDE20091003_195737_000000352083_00071_39704_9108.N1	03-OCT-2009 19:57:37	Bright	34.500	140	88Gam Peg	2.8340	26000.	69	39704	No
49	GOM_TRA_1PNPDE20091003_200143_000000352083_00071_39704_9109.N1	03-OCT-2009 20:01:43	Bright	35.000	58	21Alp And	2.0730	11000.	70	39704	No
50	GOM_TRA_1PNPDE20091003_200513_000000432083_00071_39704_9110.N1	03-OCT-2009 20:05:13	Bright	42.500	53	43Bet And	2.0480	3300.0	85	39704	No
51	GOM_TRA_1PNPDE20091003_201010_000000362083_00071_39704_9111.N1	03-OCT-2009 20:10:10	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	39704	No
52	GOM_TRA_1PNPDE20091003_201136_000000342083_00071_39704_9112.N1	03-OCT-2009 20:11:36	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39704	No
53	GOM_TRA_1PNPDE20091003_205501_000000392083_00071_39704_9113.N1	03-OCT-2009 20:55:01	Dark	38.500	132	15Rho Pup	2.8030	6900.0	77	39704	No
54	GOM_TRA_1PNPDE20091003_205848_000000442083_00071_39704_9114.N1	03-OCT-2009 20:58:48	Dark	43.500	88	31Eta CMa	2.4480	20000.	87	39704	No
55	GOM_TRA_1PNPDE20091003_210041_000000502083_00071_39704_9115.N1	03-OCT-2009 21:00:41	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	39704	No
56	GOM_TRA_1PNPDE20091003_210803_000000452083_00072_39705_9116.N1	03-OCT-2009 21:08:03	Dark	45.000	108	Alp Col	2.6520	15200.	90	39705	No
57	GOM_TRA_1PNPDE20091003_211739_000000412083_00072_39705_9117.N1	03-OCT-2009 21:17:39	Straylight	41.000	157	The1Eri	2.9060	9300.0	82	39705	No
58	GOM_TRA_1PNPDE20091003_212758_000000342083_00072_39705_9118.N1	03-OCT-2009 21:27:58	Straylight	34.000	52	16Bet Cet	2.0370	4500.0	68	39705	No
59	GOM_TRA_1PNPDE20091003_213813_000000352083_00072_39705_9119.N1	03-OCT-2009 21:38:13	Bright	34.500	140	88Gam Peg	2.8340	26000.	69	39705	No
60	GOM_TRA_1PNPDE20091003_214220_000000352083_00072_39705_9120.N1	03-OCT-2009 21:42:20	Bright	34.500	58	21Alp And	2.0730	11000.	69	39705	No
61	GOM_TRA_1PNPDE20091003_214548_000000422083_00072_39705_9121.N1	03-OCT-2009 21:45:48	Bright	41.500	53	43Bet And	2.0480	3300.0	83	39705	No
62	GOM_TRA_1PNPDE20091003_215046_000000352083_00072_39705_9122.N1	03-OCT-2009 21:50:46	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	39705	No
63	GOM_TRA_1PNPDE20091003_215212_000000342083_00072_39705_9123.N1	03-OCT-2009 21:52:12	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39705	No
64	GOM_TRA_1PNPDE20091003_223537_000000382083_00072_39705_9119.N1	03-OCT-2009 22:35:37	Dark	38.000	132	15Rho Pup	2.8030	6900.0	76	39705	No
65	GOM_TRA_1PNPDE20091003_223926_000000432083_00072_39705_9120.N1	03-OCT-2009 22:39:26	Dark	42.500	88	31Eta CMa	2.4480	20000.	85	39705	No
66	GOM_TRA_1PNPDE20091003_224118_000000482083_00072_39705_9121.N1	03-OCT-2009 22:41:18	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	39705	No
67	GOM_TRA_1PNPDE20091003_224840_000000432083_00073_39706_9122.N1	03-OCT-2009 22:48:40	Dark	43.000	108	Alp Col	2.6520	15200.	86	39706	No
68	GOM_TRA_1PNPDE20091003_225816_000000432083_00073_39706_9123.N1	03-OCT-2009 22:58:16	Straylight	42.500	157	The1Eri	2.9060	9300.0	85	39706	No
69	GOM_TRA_1PNPDE20091003_230834_000000362083_00073_39706_9124.N1	03-OCT-2009 23:08:34	Straylight	35.500	52	16Bet Cet	2.0370	4500.0	71	39706	No
70	GOM_TRA_1PNPDE20091003_231849_000000352083_00073_39706_9125.N1	03-OCT-2009 23:18:49	Bright	34.500	140	88Gam Peg	2.8340	26000.	69	39706	No
71	GOM_TRA_1PNPDE20091003_232255_000000352083_00073_39706_9126.N1	03-OCT-2009 23:22:55	Bright	35.000	58	21Alp And	2.0730	11000.	70	39706	No

72	GOM_TRA_1PNPDE20091003_232624_000000412083_00073_39706_9127.N1	03-OCT-2009 23:26:24	Bright	41.000	53	43Bet And	2.0480	3300.0	82	39706	No
73	GOM_TRA_1PNPDE20091003_233122_000000352083_00073_39706_9128.N1	03-OCT-2009 23:31:22	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	39706	No
74	GOM_TRA_1PNPDE20091003_233247_000000342083_00073_39706_9129.N1	03-OCT-2009 23:32:47	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39706	No

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



4. Overview of dark signal processing per product

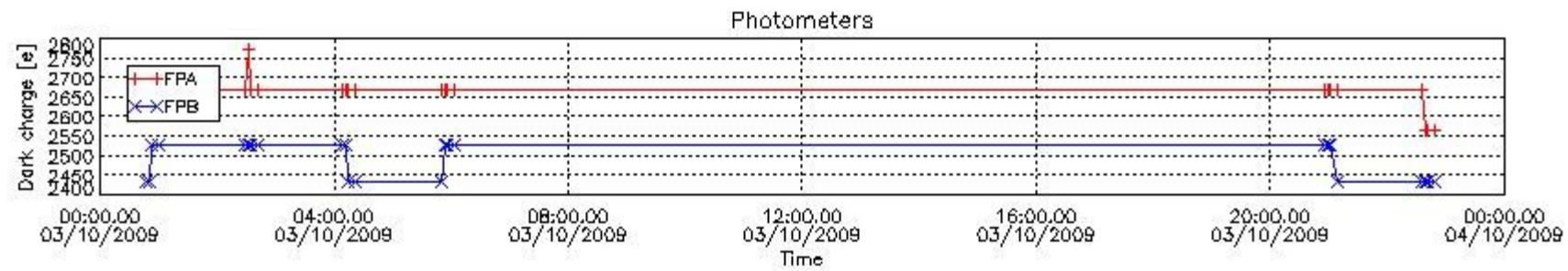
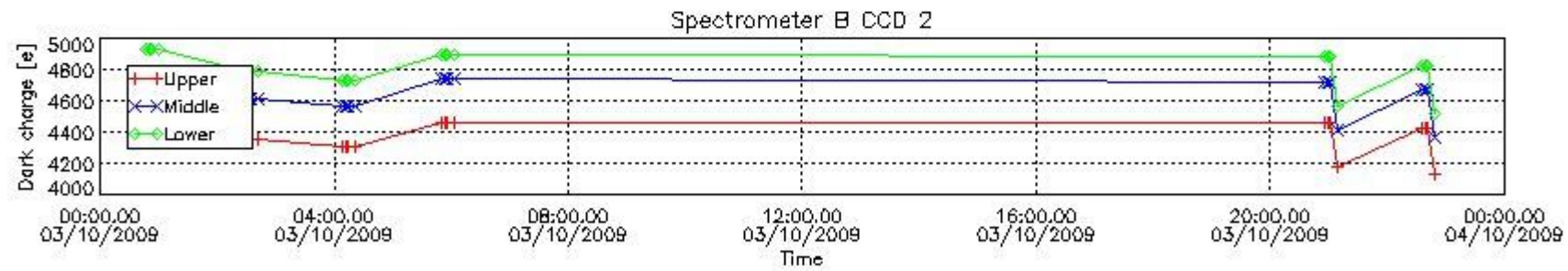
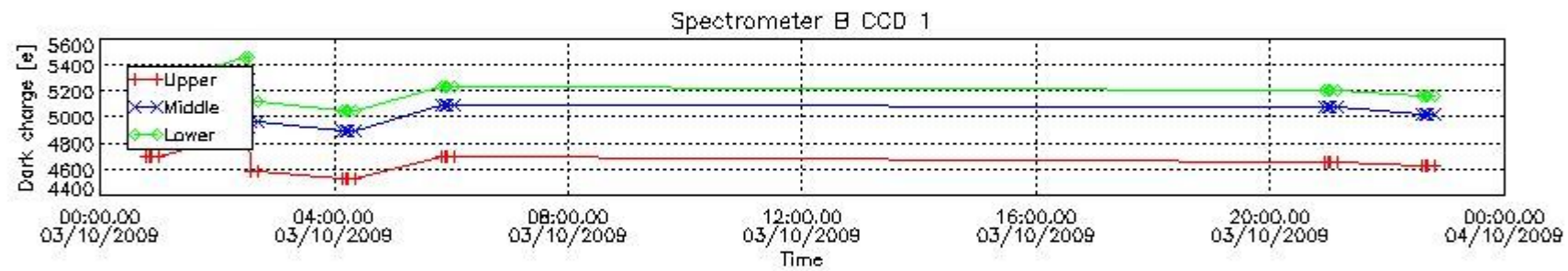
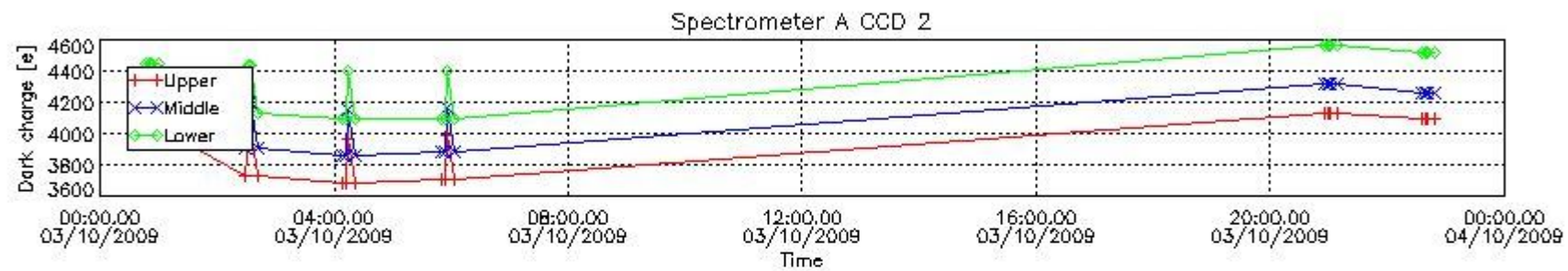
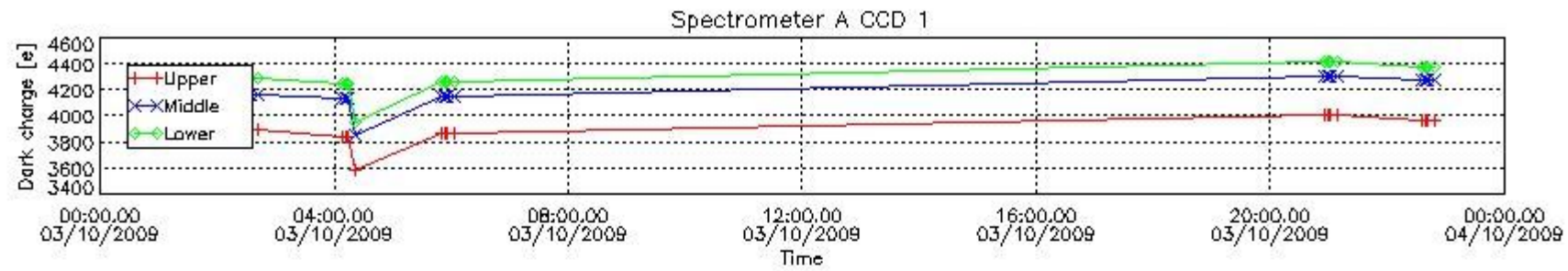
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091003_194722_000000362083_00071_39704_9107.N1	DC map used
GOM_TRA_1PNPDE20091003_195737_000000352083_00071_39704_9108.N1	DC map used
GOM_TRA_1PNPDE20091003_200143_000000352083_00071_39704_9109.N1	DC map used
GOM_TRA_1PNPDE20091003_200513_000000432083_00071_39704_9110.N1	DC map used
GOM_TRA_1PNPDE20091003_201010_000000362083_00071_39704_9111.N1	DC map used
GOM_TRA_1PNPDE20091003_201136_000000342083_00071_39704_9112.N1	DC map used

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



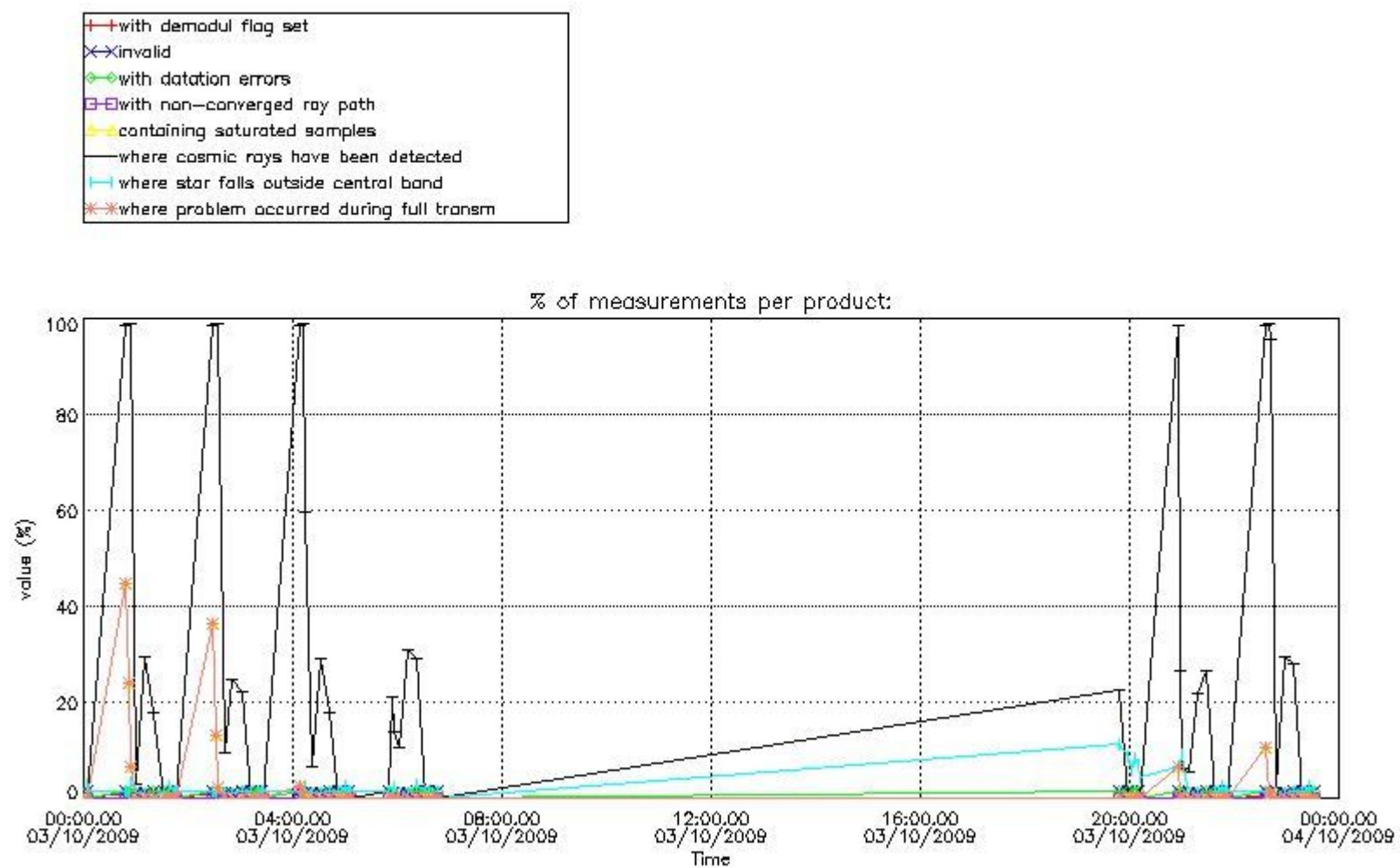
5. Demodulation flag and quality information monitoring

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.

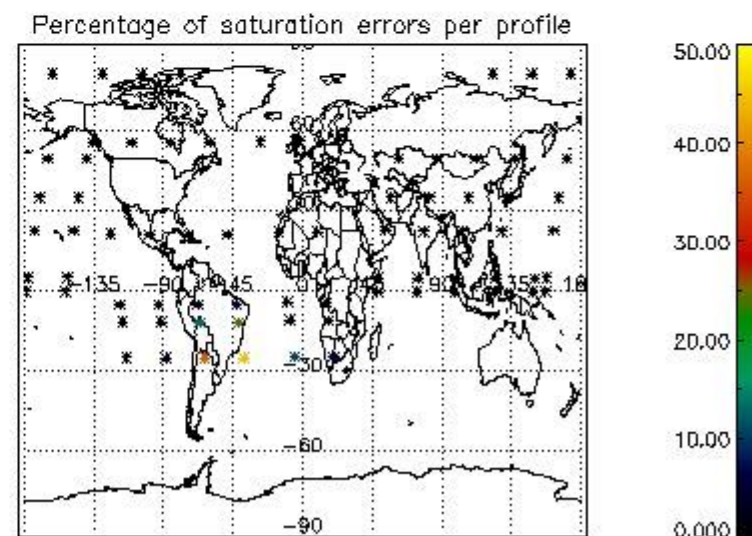
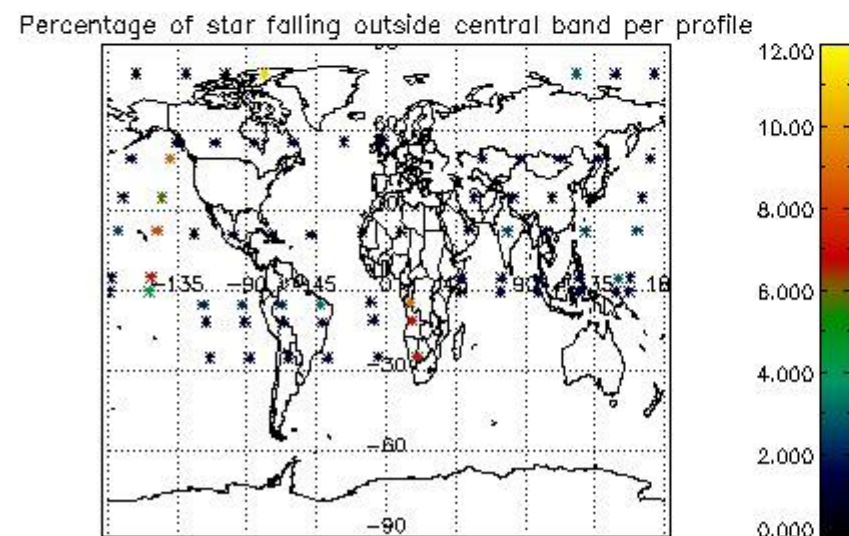
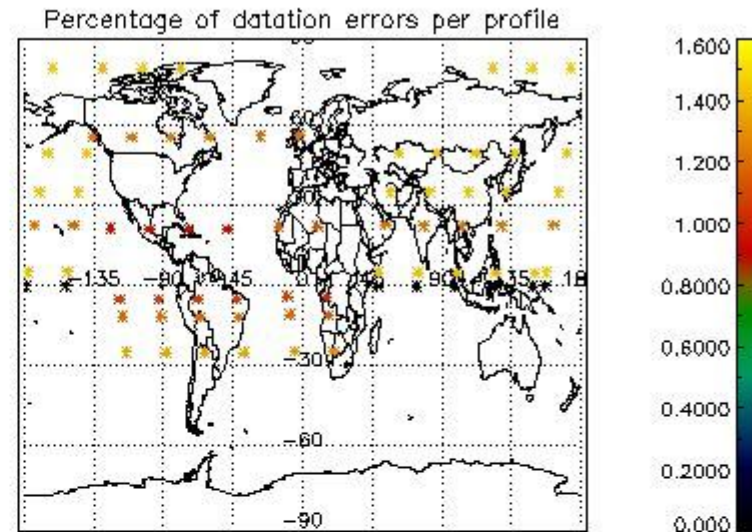
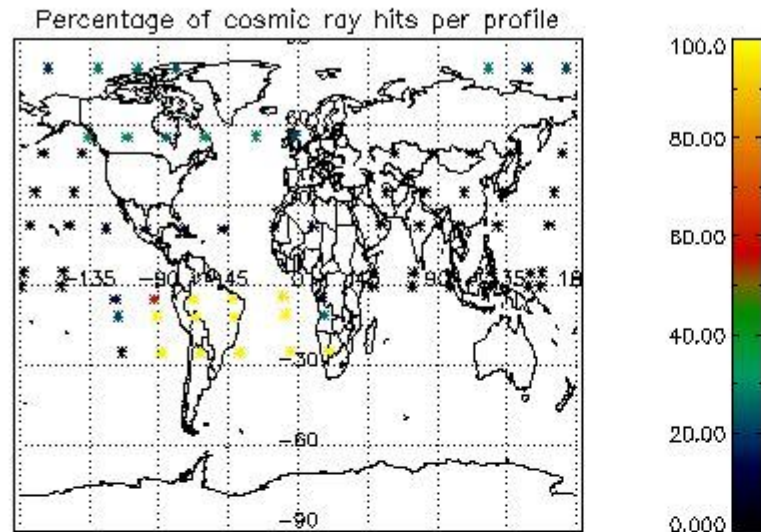
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	35.1351 %
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)



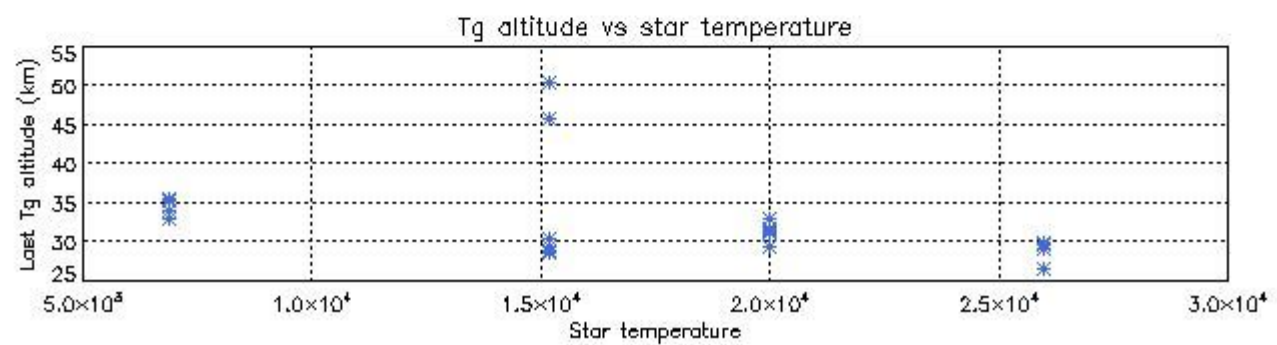
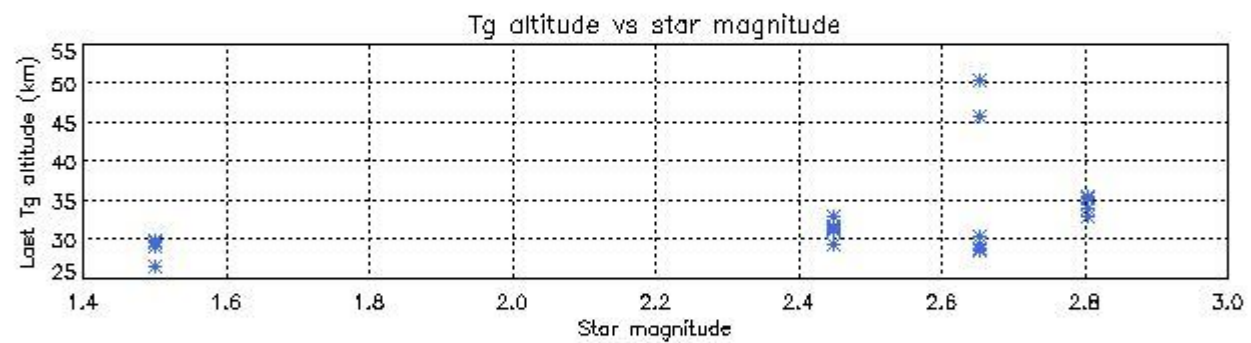
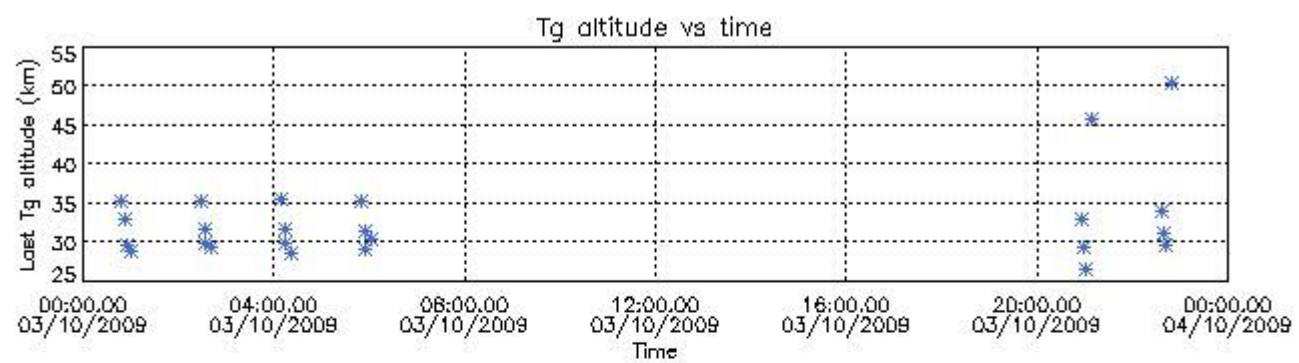
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	32.679	31.268	NaN
St. deviation:	5.3797	2.0702	NaN
Maximum:	50.398	35.095	NaN
Minimum:	26.644	26.547	NaN
Number of data:	24.000	37.000	NaN

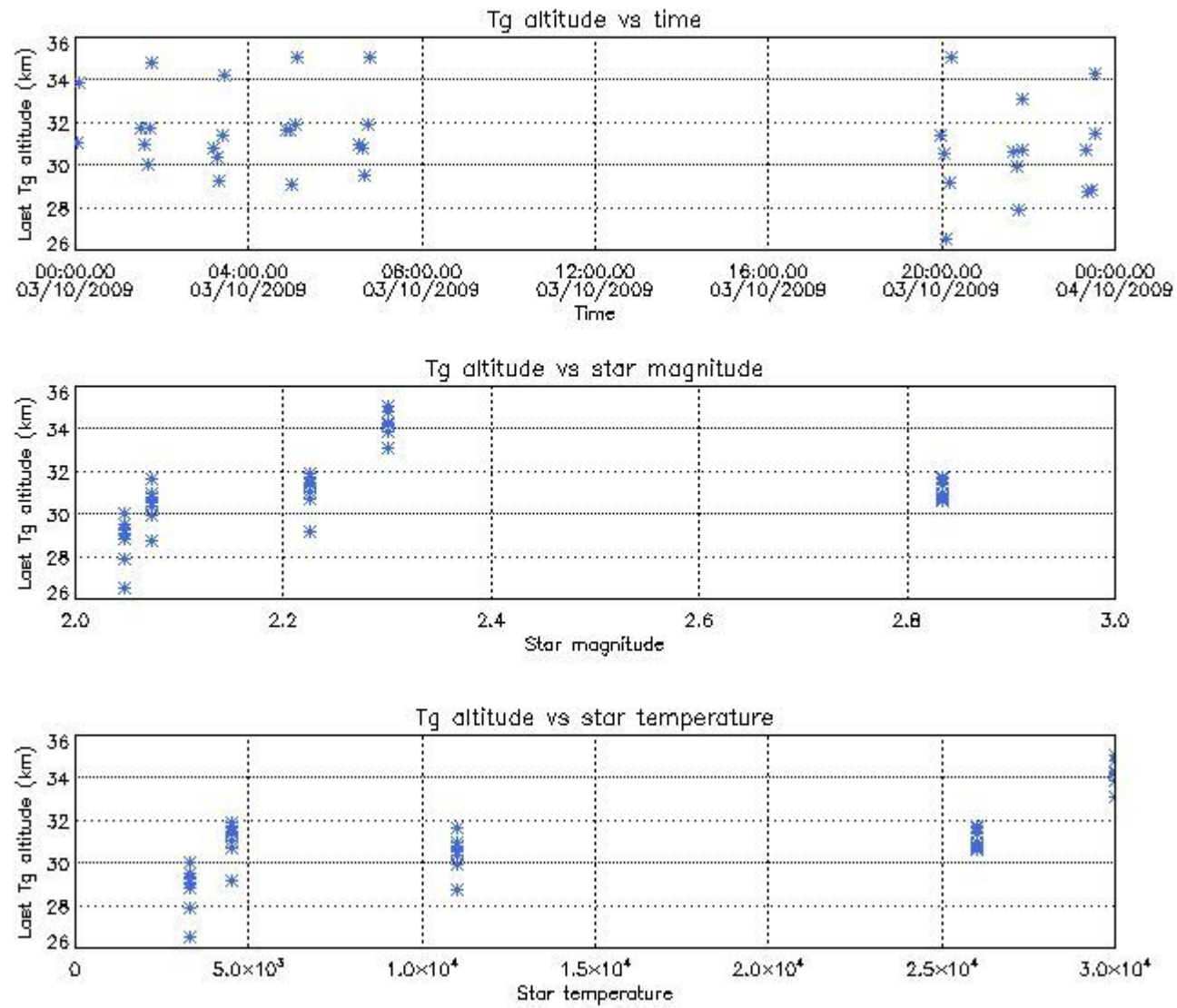
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

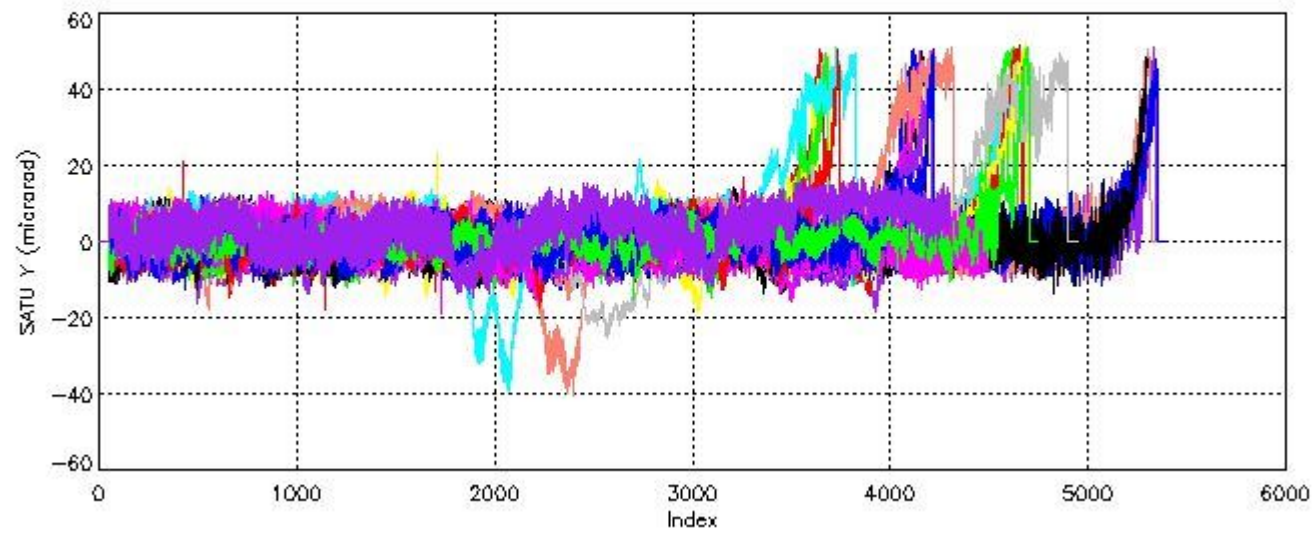
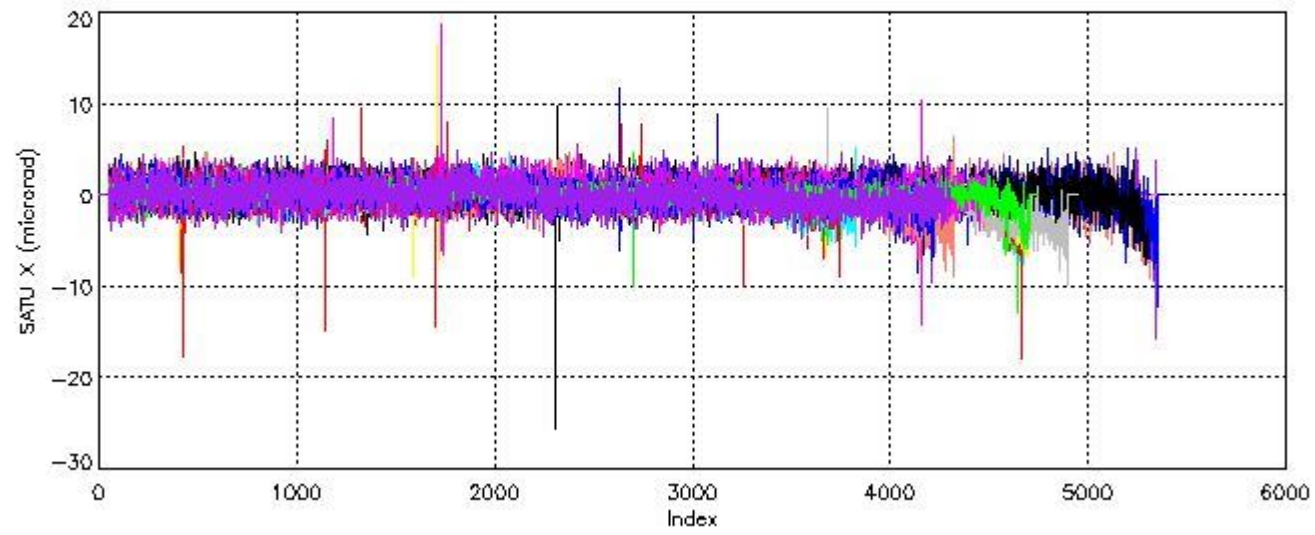


7. Star Acquisition and Tracking Unit (SATU)

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:	0.24545	0.26324	0.23107	0.017847
St. deviation:	0.94780	4.2612	0.83996	3.9413
Maximum:	5.4000	21.100	7.0000	17.400
Minimum:	-17.800	-17.900	-6.0000	-41.500

Number of data:	30100.	30100.	36100.	36100.
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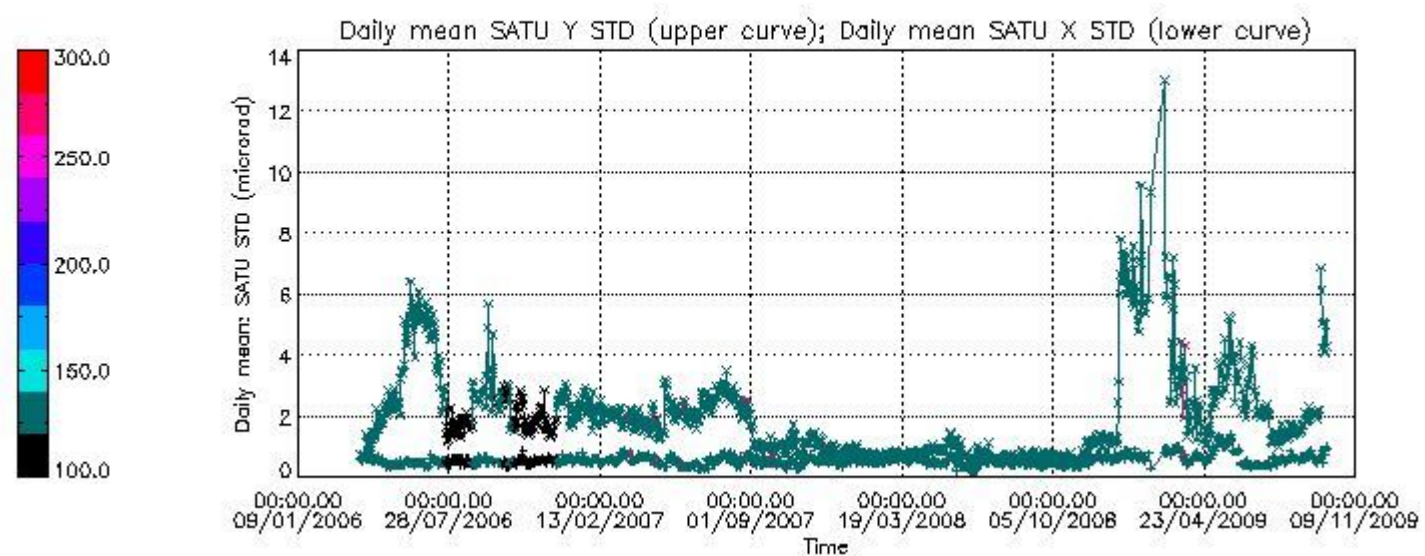
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

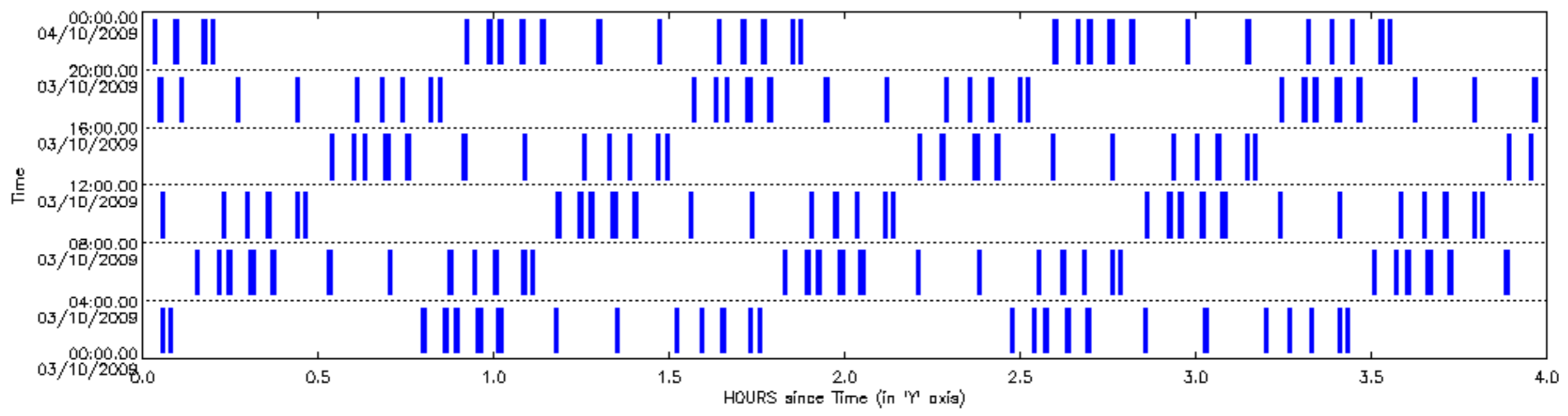
Lower curve: STD of SATU X axis

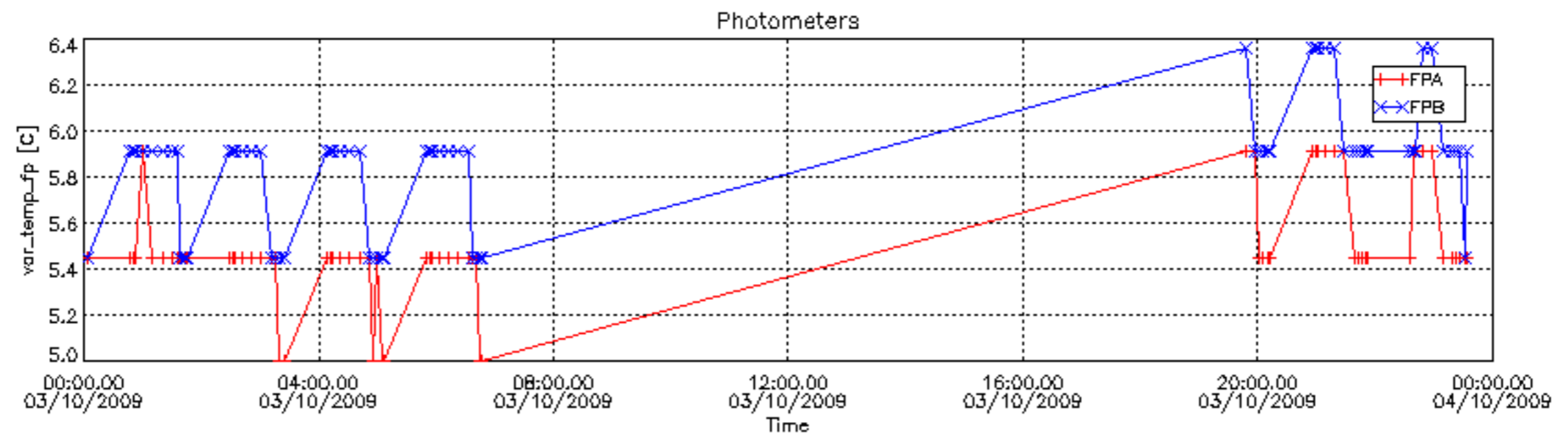
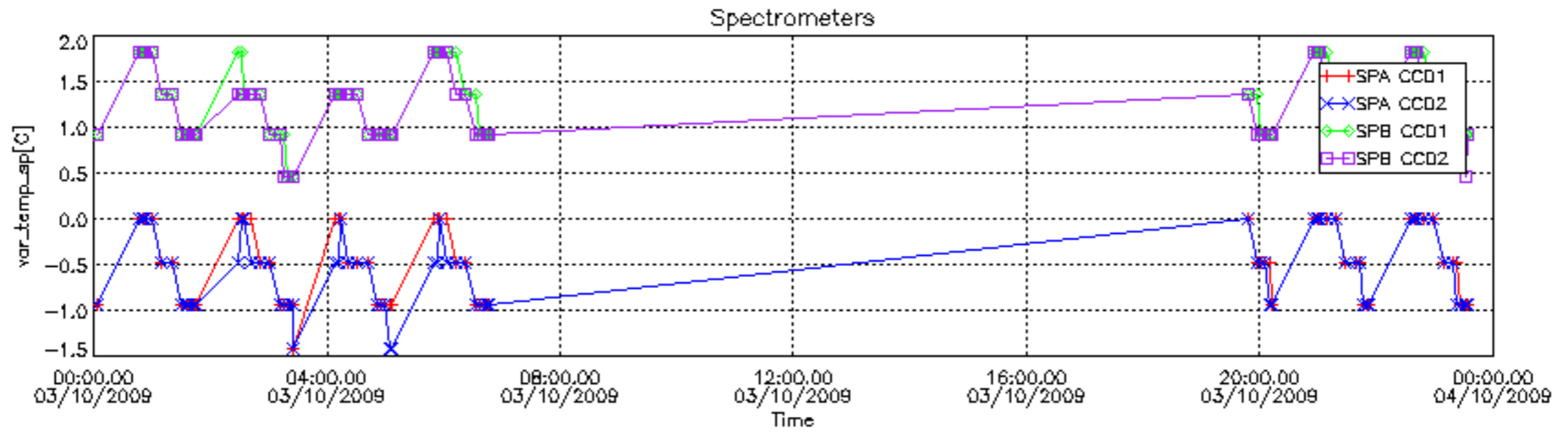


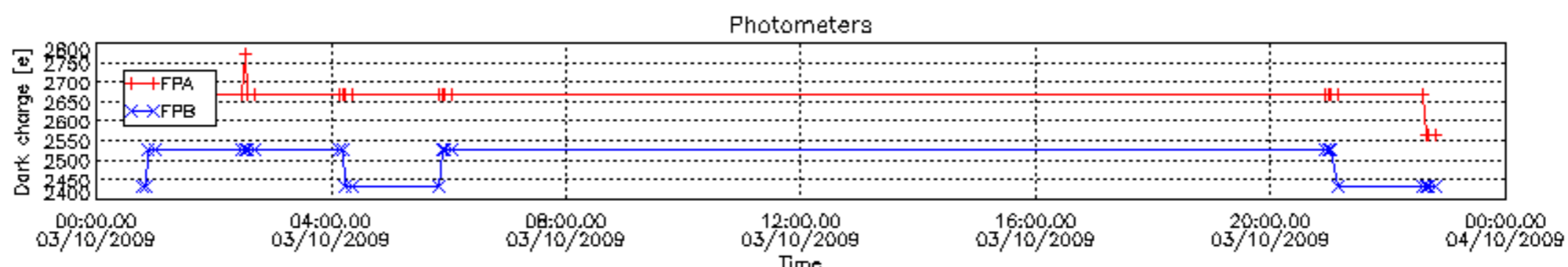
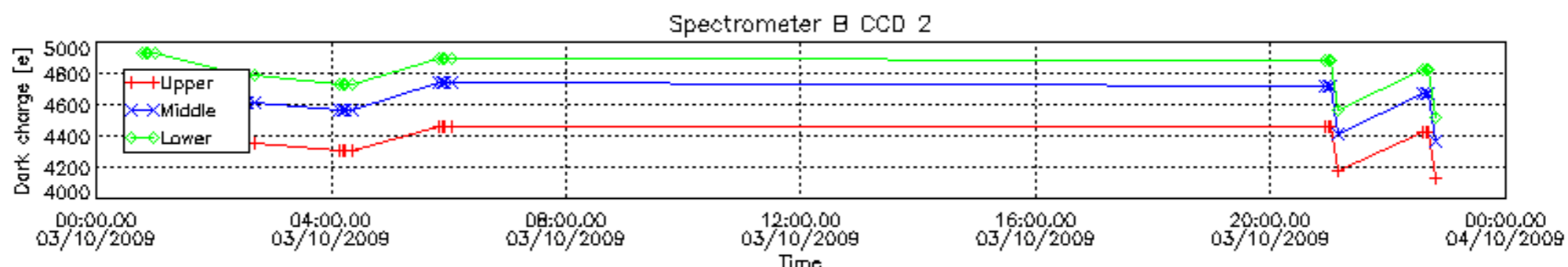
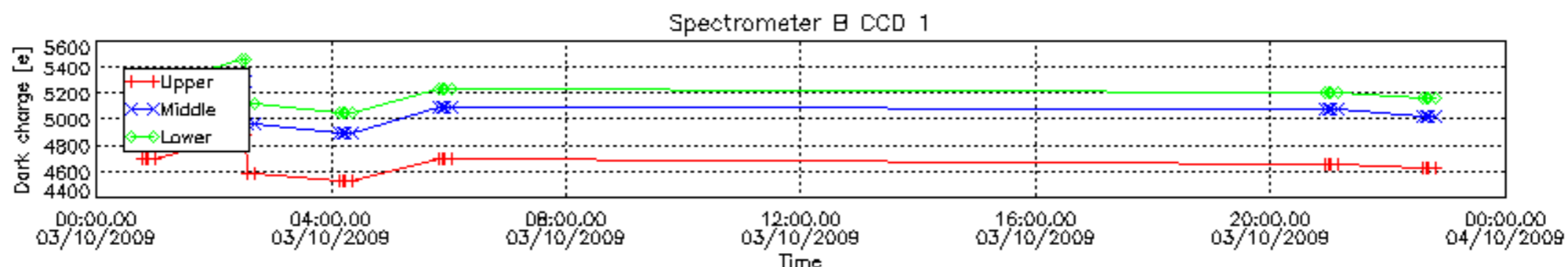
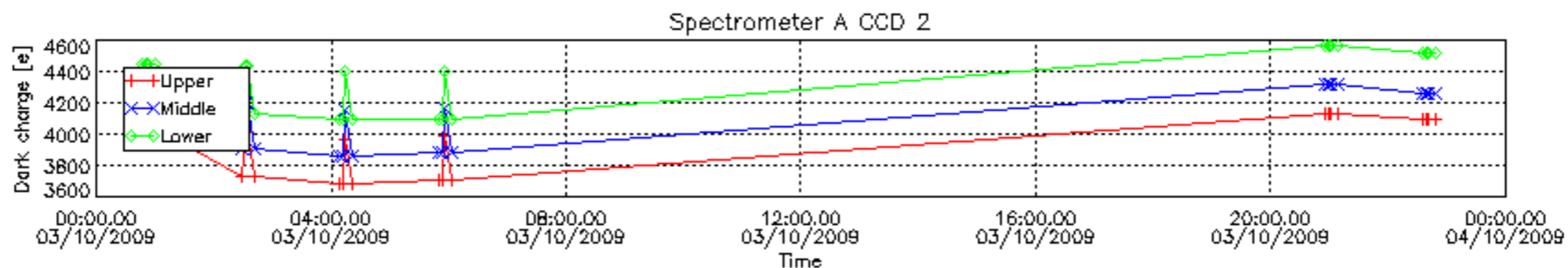
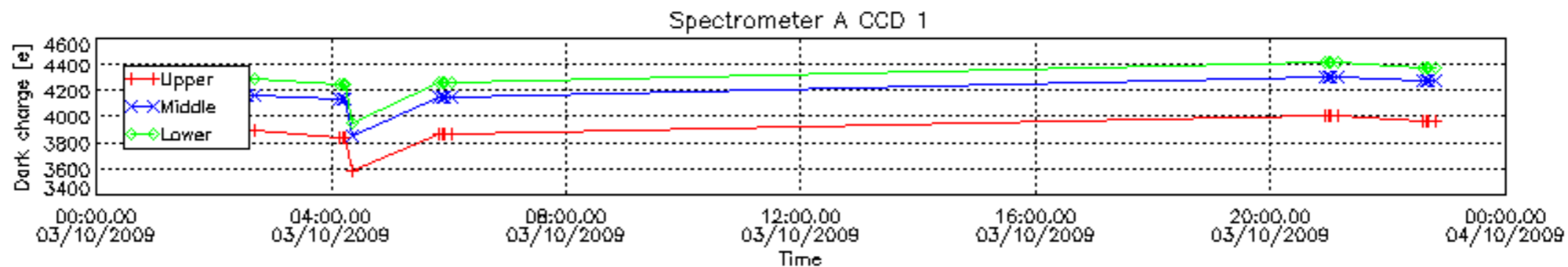
8. Auxiliary Data Files used for the production reported in section 2.4

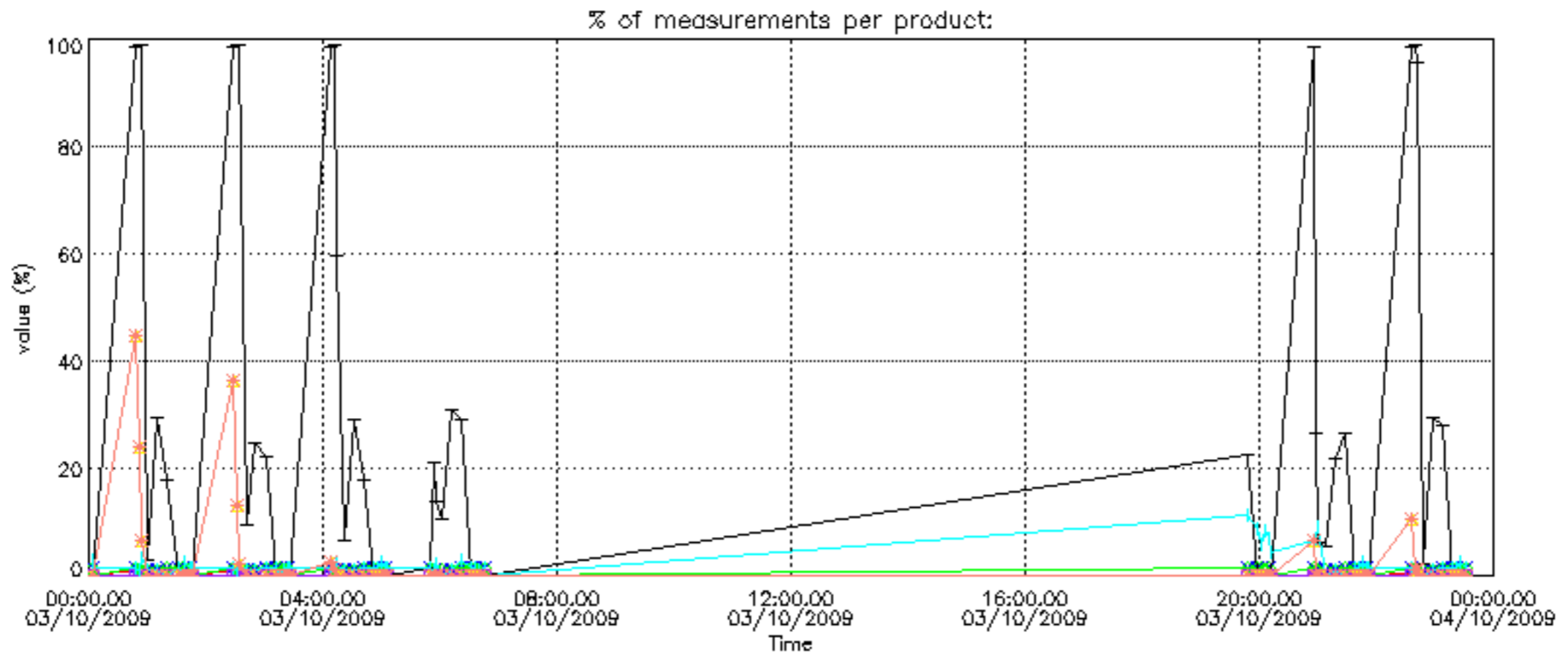
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	03-OCT-2009 00:03:03
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090930_074316_20090929_000000_20100101_000000	1	03-OCT-2009 00:03:03
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-OCT-2009 00:03:03
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-OCT-2009 00:03:03
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-OCT-2009 00:03:03
ECMWF_FILE	AUX_ECF_AXNECM20091002_064113_20091002_210000_20091003_090000	1	03-OCT-2009 00:03:03
ECMWF_FILE	AUX_ECF_AXNECM20091002_184112_20091003_030000_20091003_150000	25	03-OCT-2009 04:08:52
ECMWF_FILE	AUX_ECA_AXNECM20091003_062112_20091002_210000_20091003_090000	36	03-OCT-2009 05:49:29
ECMWF_FILE	AUX_ECA_AXNECM20091003_182113_20091003_090000_20091003_210000	47	03-OCT-2009 19:47:22
ECMWF_FILE	AUX_ECF_AXNECM20091003_064112_20091003_150000_20091004_030000	53	03-OCT-2009 20:55:01
ECMWF_FILE	AUX_ECF_AXNECM20091003_064113_20091003_210000_20091004_090000	64	03-OCT-2009 22:35:37
OPTIONAL_ECMWF_FILE	MISSING	1	03-OCT-2009 00:03:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091002_225930_000057382083_00058_39691_8887.N1	1	03-OCT-2009 00:03:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091003_004027_000054192083_00059_39692_8888.N1	3	03-OCT-2009 00:47:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091003_021606_000041442083_00060_39693_8889.N1	14	03-OCT-2009 02:28:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091003_033029_000057382083_00061_39694_8890.N1	25	03-OCT-2009 04:08:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091003_051126_000060572083_00062_39695_8891.N1	36	03-OCT-2009 05:49:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091003_193728_000035072083_00071_39704_8892.N1	47	03-OCT-2009 19:47:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091003_204114_000060572083_00071_39704_8893.N1	53	03-OCT-2009 20:55:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091003_222730_000057382083_00072_39705_8894.N1	64	03-OCT-2009 22:35:37

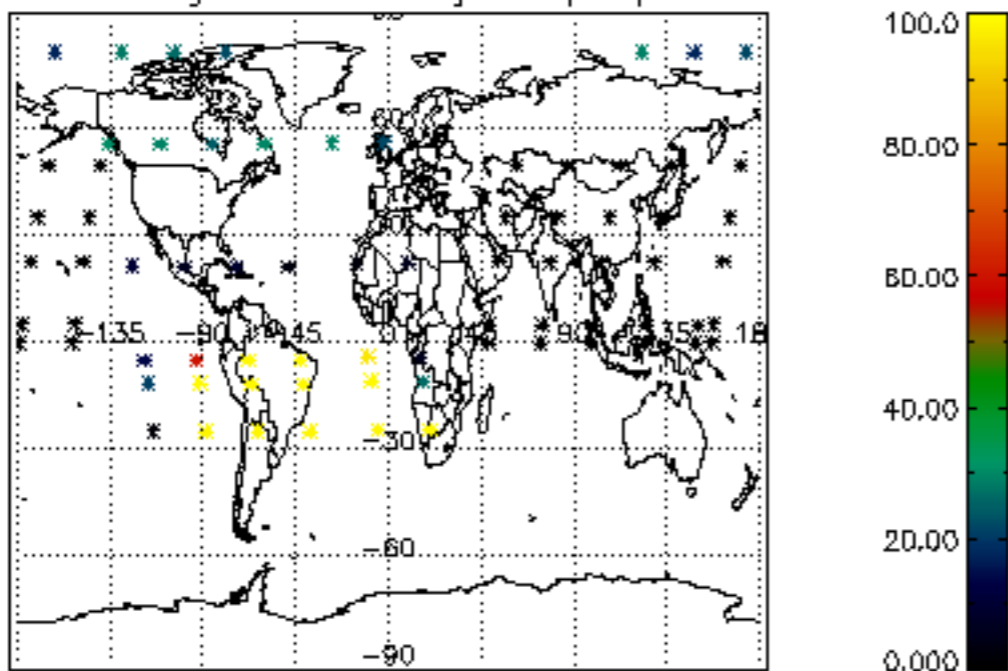




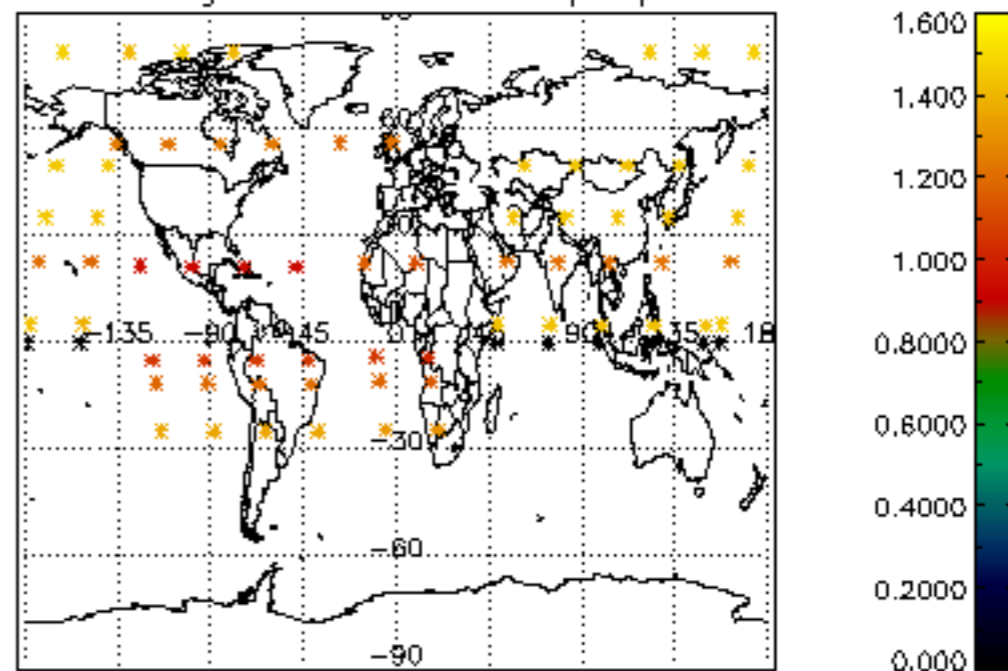




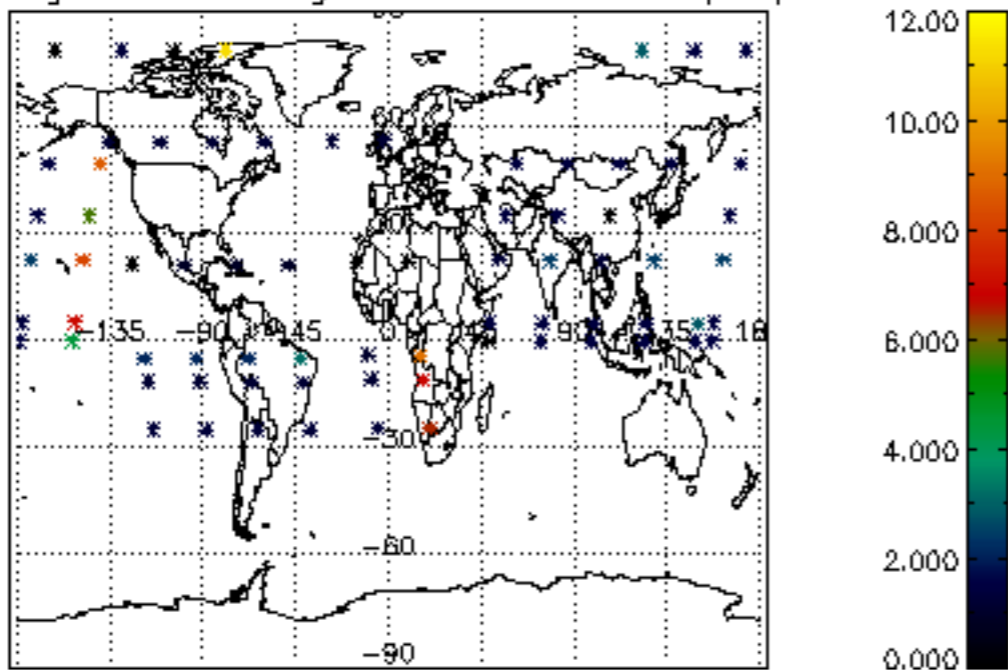
Percentage of cosmic ray hits per profile



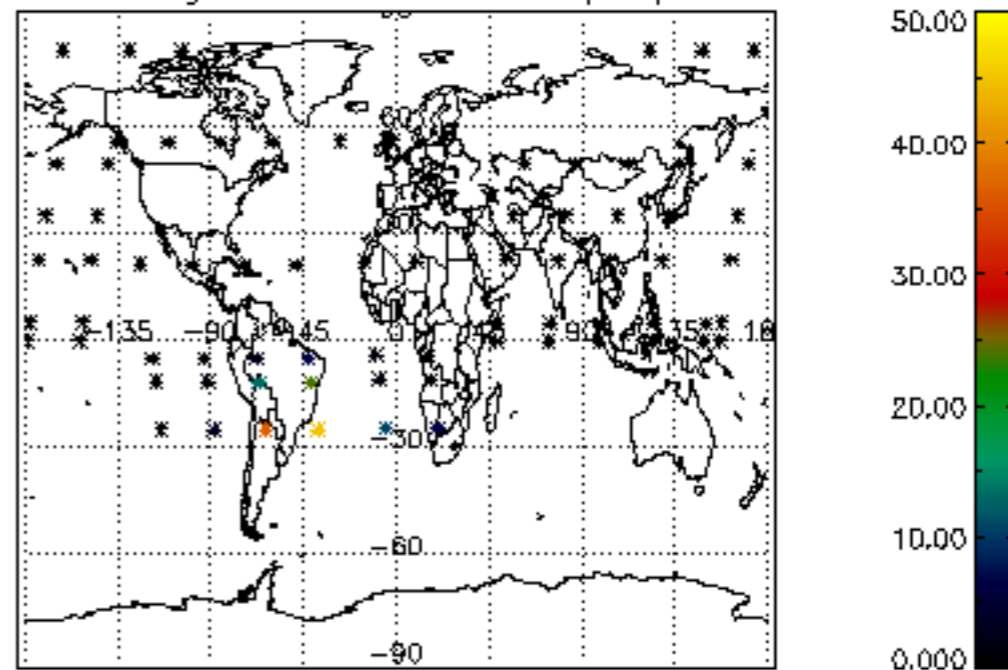
Percentage of datation errors per profile



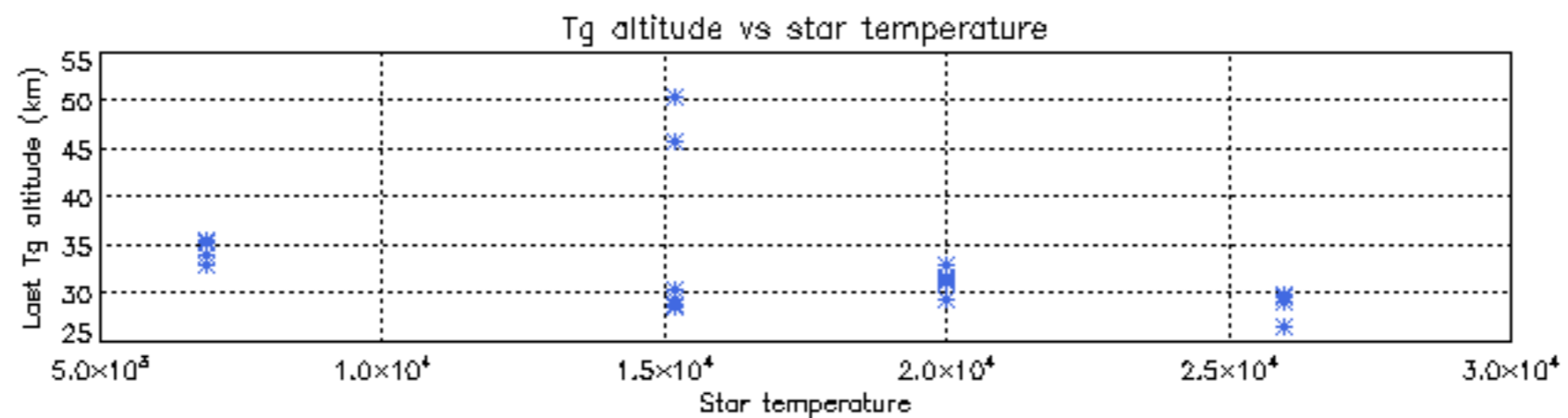
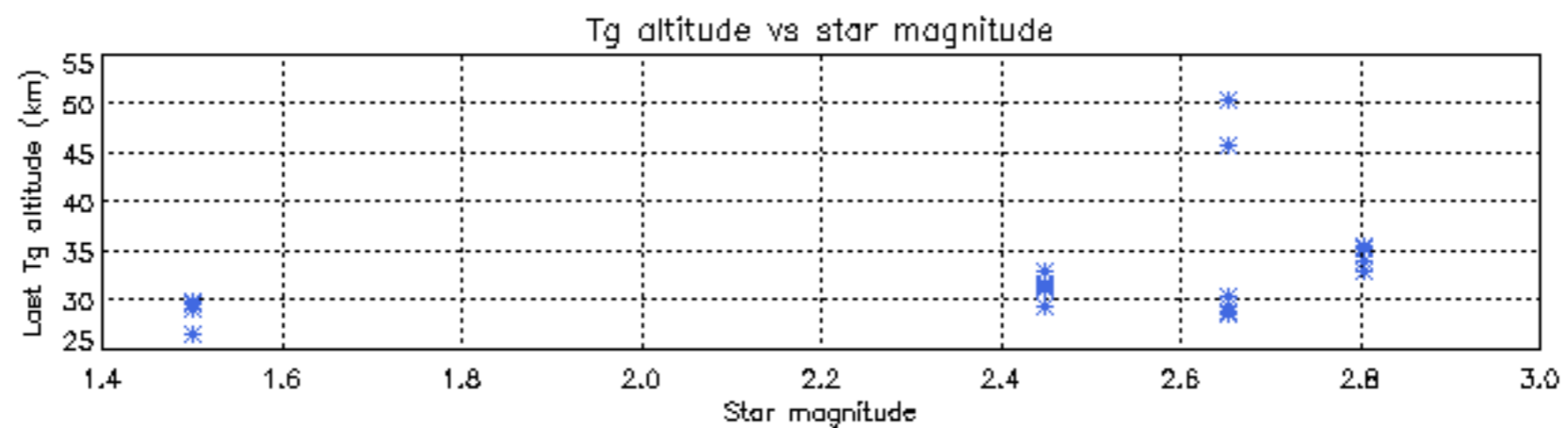
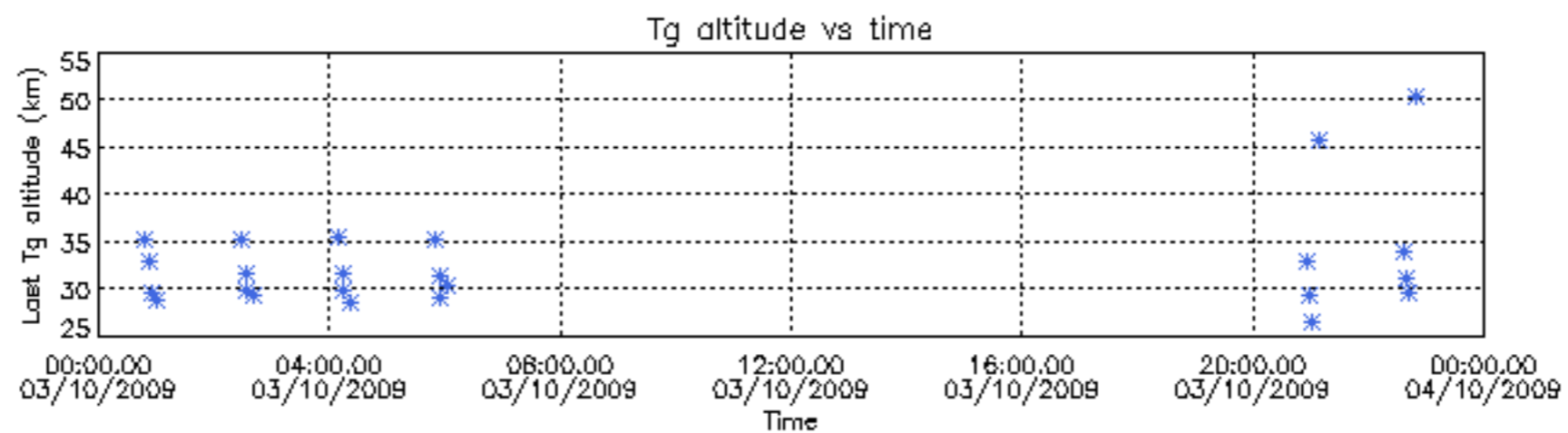
Percentage of star falling outside central band per profile



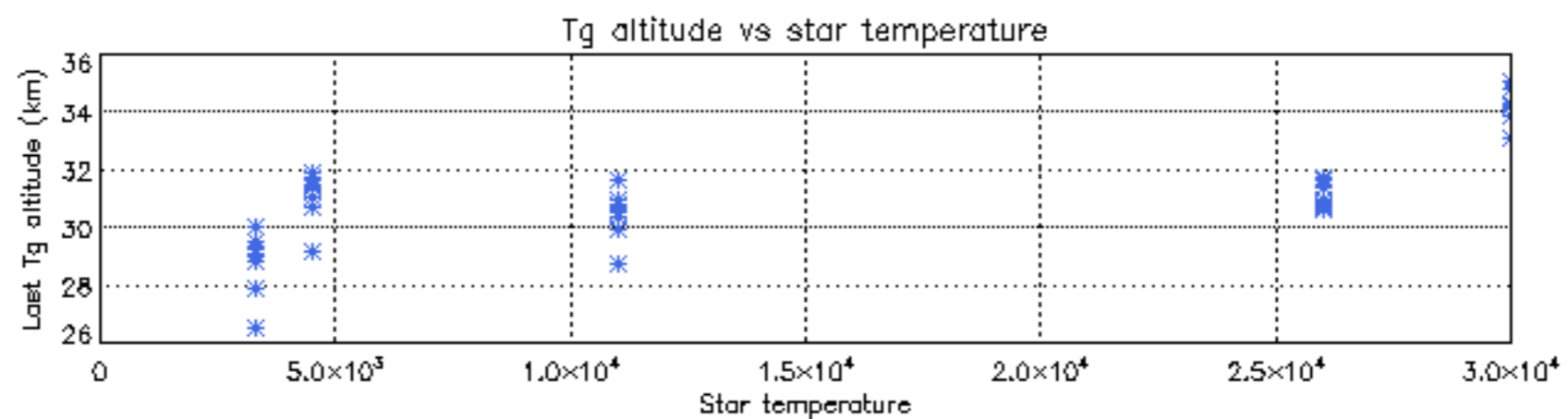
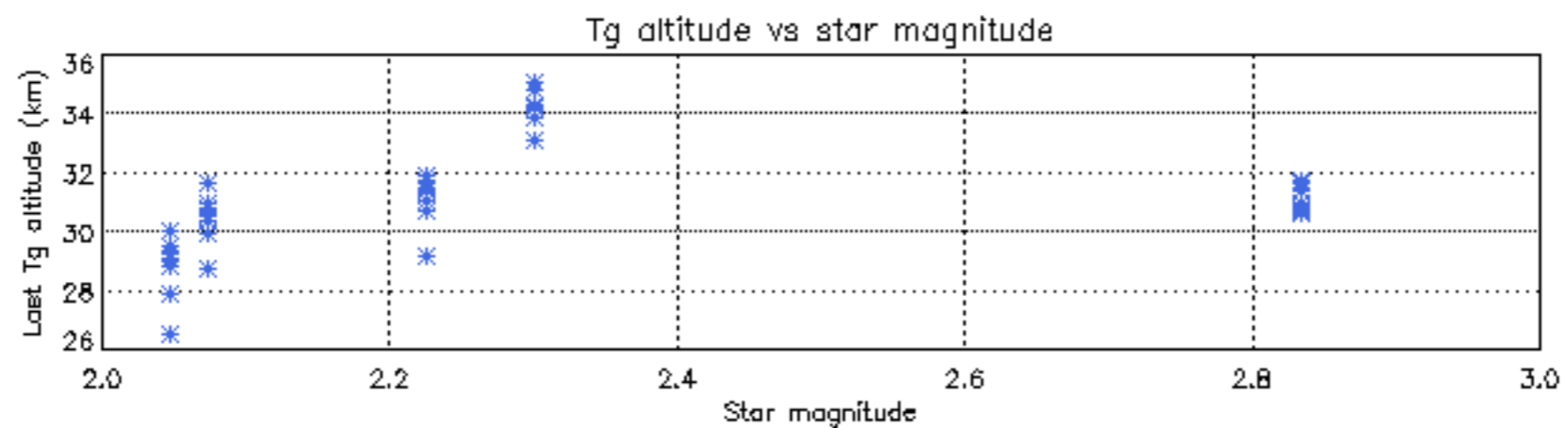
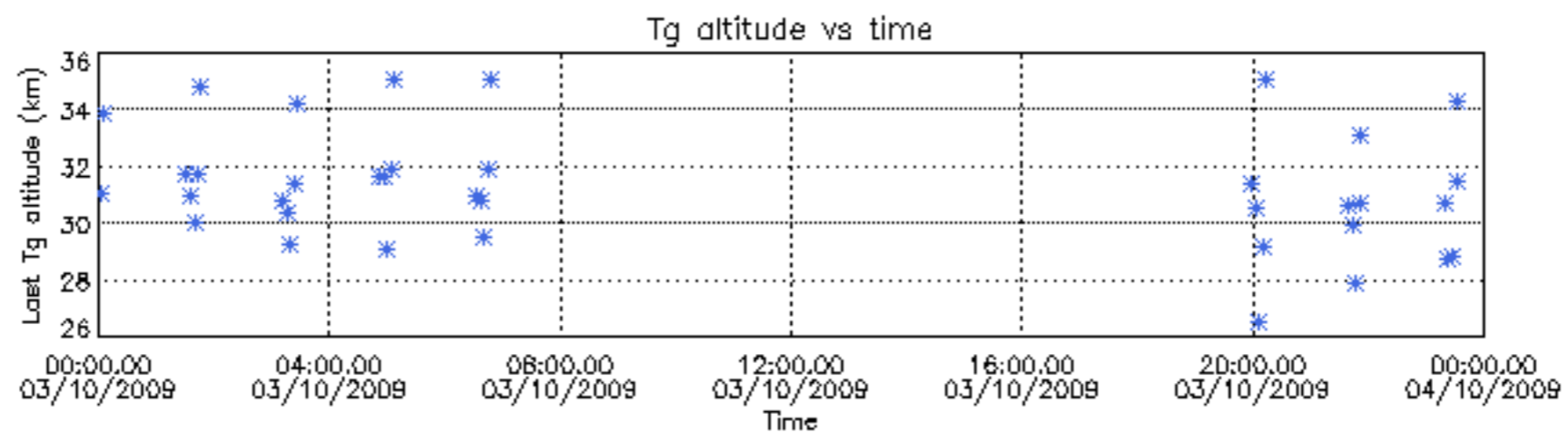
Percentage of saturation errors per profile

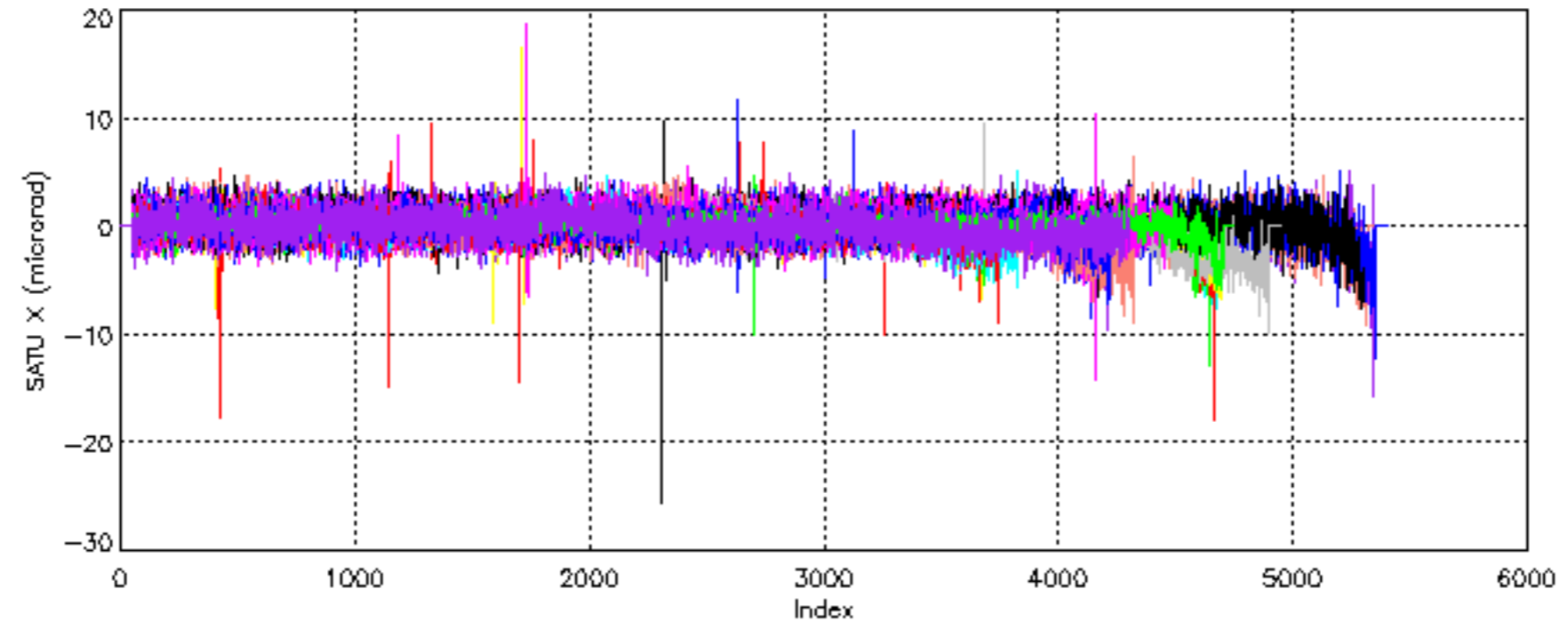


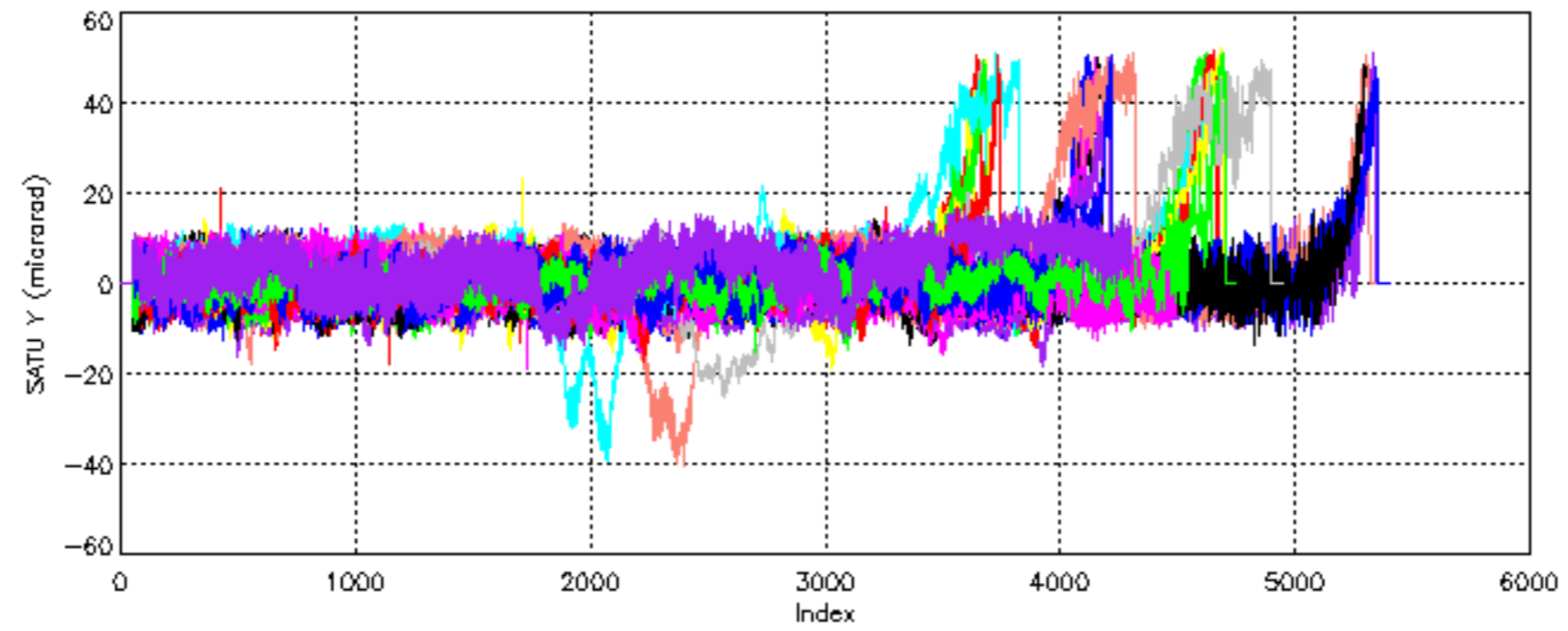
Tangent altitude at which the star is lost

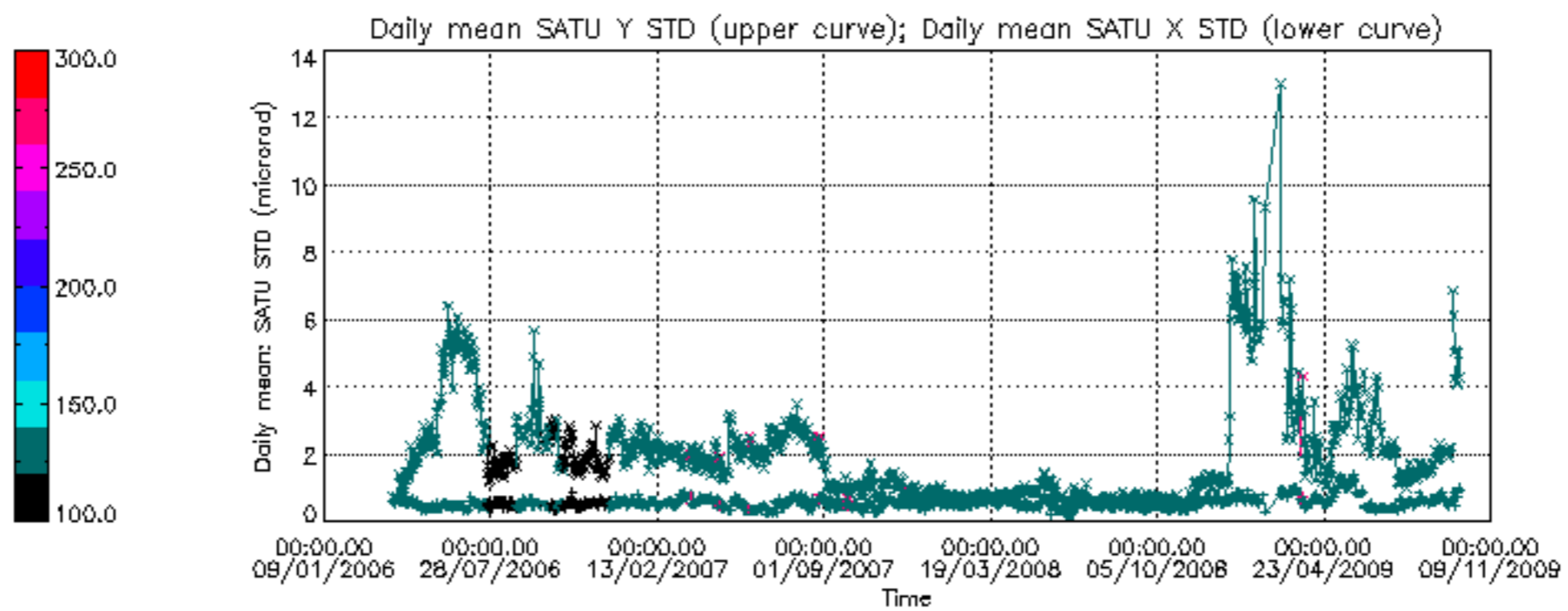


Tangent altitude at which the star is lost










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3; -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
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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
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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
4; -125.6; 01-OCT-2009 03:36:28; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39665
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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
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4; 2651.9; 01-OCT-2009 21:08:45; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39676
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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
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6; 4603.1; 01-OCT-2009 11:37:41; Bright; 37.5; 17; 78Bet Gem ; 1.16; 4500;occ; 75; 0;39670
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5; 2942.9; 01-OCT-2009 12:50:36; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39671
6; 3028.8; 01-OCT-2009 12:52:02; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 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
7; 4603.9; 01-OCT-2009 14:58:53; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;39672
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3; 2647.7; 16-OCT-2009 08:12:38; Bright; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;39883
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6; 3076.7; 16-OCT-2009 08:19:47; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;39883
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9; 5818.6; 16-OCT-2009 09:05:29; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;39883
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13; 6380.7; 16-OCT-2009 09:14:51; Dark ; 37.0; 2; Alp Car ;-0.74; 7000;occ; 74; 0;39883
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4; 2759.3; 16-OCT-2009 09:55:06; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;39884
5; 2984.5; 16-OCT-2009 09:58:51; Bright; 33.0; 110; 37Del Cas ; 2.68; 8900;occ; 66; 0;39884
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9; 5280.0; 16-OCT-2009 10:37:06; Dark ; 33.5; 48; 30Alp Hya ; 1.98; 4100;occ; 67; 0;39884
10; 5820.0; 16-OCT-2009 10:46:07; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;39884
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12; 6176.6; 16-OCT-2009 10:52:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39884
13; 6301.2; 16-OCT-2009 10:54:08; Dark ; 37.5; 161; Tau Pup ; 2.93; 4500;occ; 75; 0;39884
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3; 2646.1; 16-OCT-2009 11:33:49; Bright; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;39885
4; 2758.4; 16-OCT-2009 11:35:41; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;39885
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6; 3075.0; 16-OCT-2009 11:40:57; Bright; 40.5; 160; 23Gam Per ; 2.93; 4700;occ; 81; 0;39885
7; 4636.9; 16-OCT-2009 12:06:59; Bright; 29.5; 166; 17Eps Leo ; 2.98; 6000;occ; 59; 0;39885
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9; 5280.9; 16-OCT-2009 12:17:43; Dark ; 33.5; 48; 30Alp Hya ; 1.98; 4100;occ; 67; 0;39885
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7; 4637.0; 16-OCT-2009 15:28:11; Bright; 29.5; 166; 17Eps Leo ; 2.98; 6000;occ; 59; 0;39887
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3; 2644.2; 16-OCT-2009 16:35:34; Bright; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;39888
4; 2756.8; 16-OCT-2009 16:37:27; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;39888
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5; 1086.8; 22-OCT-2009 02:56:20; Dark ; 34.0; 157; The1Eri ; 2.91; 9300;occ; 68; 0;39966
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2; 2574.2; 25-OCT-2009 08:28:40; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40012
3; 2693.6; 25-OCT-2009 08:30:39; Bright; 12.0; 73; 57Gam1And ; 2.26; 13100;occ; 24; 0;40012
4; 6484.7; 25-OCT-2009 09:33:50; Dark ; 16.0; 2; Alp Car ;-0.74; 7000;occ; 32; 0;40012
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2; 2573.8; 25-OCT-2009 10:09:15; Bright; 40.5; 173; 4Bet Tri ; 3.00; 8900;occ; 81; 0;40013
3; 2693.0; 25-OCT-2009 10:11:15; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40013
4; 6485.7; 25-OCT-2009 11:14:27; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;40013
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2; 2573.4; 25-OCT-2009 11:49:51; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40014
3; 2693.0; 25-OCT-2009 11:51:51; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40014
4; 6149.4; 25-OCT-2009 12:49:27; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40014
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; 2572.6; 25-OCT-2009 15:11:02; Bright; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;40016
3; 2692.3; 25-OCT-2009 15:13:02; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40016
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2; 2572.2; 25-OCT-2009 16:51:38; Bright; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;40017
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2; 2690.0; 26-OCT-2009 01:16:35; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40022
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2; 2569.4; 26-OCT-2009 04:35:46; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40024
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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
3; 2688.2; 26-OCT-2009 06:18:21; Bright; 3.5; 73; 57Gam1And ; 2.26; 13100;occ; 7; 0;40025
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2; 123.6; 26-OCT-2009 07:16:12; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40026
3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
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2; 2687.5; 26-OCT-2009 11:20:08; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40028
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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2; 2687.1; 26-OCT-2009 13:00:43; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40029
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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2; 2685.9; 26-OCT-2009 18:02:30; Bright; 25.5; 73; 57Gam1And ; 2.26; 13100;occ; 51; 0;40032
3; 6313.3; 26-OCT-2009 19:02:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40032
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2; 130.3; 26-OCT-2009 20:41:07; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40034
3; 278.2; 26-OCT-2009 20:43:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40034
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2; 2681.2; 27-OCT-2009 15:50:12; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40045
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2; 298.0; 28-OCT-2009 07:56:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40055

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3; 482.8; 28-OCT-2009 07:59:33; Dark ; 47.0; 2; Alp Car ; -0.74; 7000; occ; 94; 0; 40055

