

GOMOS Daily Report 13-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 04:39:35
Data source version	GOMOS/5.00L03
Start time of products	13OCT2009 00:16:50
Stop time of products	13OCT2009 23:55:45
Store outputs in DB	Yes
Nb of level 1b prods	73
Nb of prods with errors	2

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

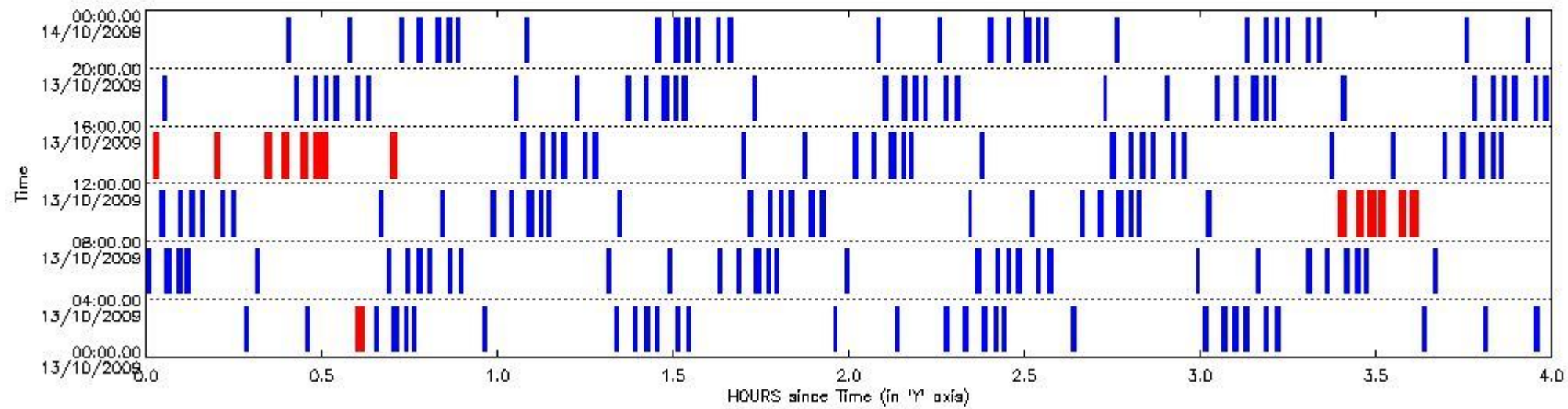
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

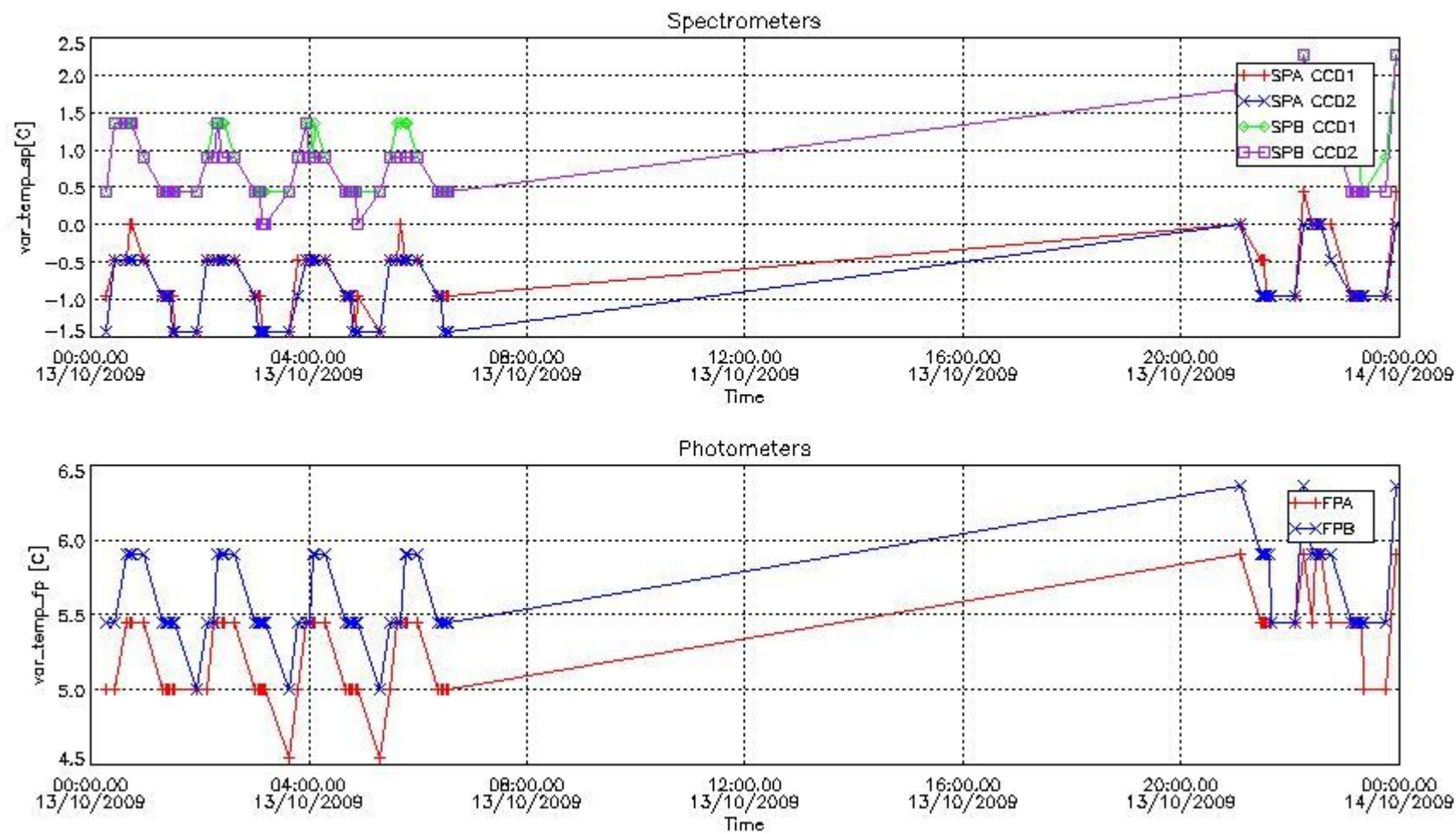
UTC start time	Star name	Star ID	Orbit
13-OCT-2009 00:35:49	15RhoPup	132	39835
13-OCT-2009 11:23:32	6BetAri	105	39842
13-OCT-2009 11:26:49	43BetAnd	53	39842
13-OCT-2009 11:28:41	4BetTri	173	39842
13-OCT-2009 11:30:29	57Gam1And	73	39842
13-OCT-2009 11:34:01	37DelCas	110	39842
13-OCT-2009 11:35:52	23GamPer	160	39842
13-OCT-2009 12:01:09	17EpsLeo	166	39842
13-OCT-2009 12:11:35	30AlpHya	48	39842
13-OCT-2009 12:20:09	15RhoPup	132	39842
13-OCT-2009 12:23:19	ZetPup	70	39842
13-OCT-2009 12:26:22	DSA1055	0	39843
13-OCT-2009 12:28:28	TauPup	161	39843
13-OCT-2009 12:29:50	AlpCar	2	39843
13-OCT-2009 12:41:47	The1Eri	157	39843

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_1PNPDE20091013_001650_000000282083_00202_39835_0589.N1	13-OCT-2009 00:16:50	Twilight	28.000	166	17Eps Leo	2.9800	6000.0	56	39835	No
2	GOM_TRA_1PNPDE20091013_002713_000000322083_00202_39835_0590.N1	13-OCT-2009 00:27:13	Dark	31.500	48	30Alp Hya	1.9770	4100.0	63	39835	No
3	GOM_TRA_1PNPDE20091013_003856_000000372083_00202_39835_0600.N1	13-OCT-2009 00:38:56	Dark	36.500	70	Zet Pup	2.2460	39000.0	73	39835	No
4	GOM_TRA_1PNPDE20091013_004405_000000372083_00203_39836_0601.N1	13-OCT-2009 00:44:05	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39836	No
5	GOM_TRA_1PNPDE20091013_004527_000000372083_00203_39836_0602.N1	13-OCT-2009 00:45:27	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39836	No
6	GOM_TRA_1PNPDE20091013_005726_000000372083_00203_39836_0603.N1	13-OCT-2009 00:57:26	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	39836	No
7	GOM_TRA_1PNPDE20091013_011955_000000432083_00203_39836_0604.N1	13-OCT-2009 01:19:55	Bright	42.500	105	6Bet Ari	2.6450	8900.0	85	39836	No
8	GOM_TRA_1PNPDE20091013_012310_000000362083_00203_39836_0605.N1	13-OCT-2009 01:23:10	Bright	35.500	53	43Bet And	2.0480	3300.0	71	39836	No
9	GOM_TRA_1PNPDE20091013_012505_000000432083_00203_39836_0606.N1	13-OCT-2009 01:25:05	Bright	43.000	173	4Bet Tri	3.0040	8900.0	86	39836	No
10	GOM_TRA_1PNPDE20091013_012652_000000412083_00203_39836_0607.N1	13-OCT-2009 01:26:52	Bright	40.500	73	57Gam1And	2.2600	13100.0	81	39836	No
11	GOM_TRA_1PNPDE20091013_013022_000000342083_00203_39836_0608.N1	13-OCT-2009 01:30:22	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39836	No
12	GOM_TRA_1PNPDE20091013_013216_000000412083_00203_39836_0609.N1	13-OCT-2009 01:32:16	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	39836	No
13	GOM_TRA_1PNPDE20091013_015726_000000282083_00203_39836_0610.N1	13-OCT-2009 01:57:26	Twilight	27.500	166	17Eps Leo	2.9800	6000.0	55	39836	No
14	GOM_TRA_1PNPDE20091013_020750_000000322083_00203_39836_0624.N1	13-OCT-2009 02:07:50	Dark	32.000	48	30Alp Hya	1.9770	4100.0	64	39836	No
15	GOM_TRA_1PNPDE20091013_021621_000000422083_00203_39836_0625.N1	13-OCT-2009 02:16:21	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	39836	No
16	GOM_TRA_1PNPDE20091013_021933_000000372083_00203_39836_0626.N1	13-OCT-2009 02:19:33	Dark	37.000	70	Zet Pup	2.2460	39000.0	74	39836	No
17	GOM_TRA_1PNPDE20091013_022442_000000372083_00204_39837_0627.N1	13-OCT-2009 02:24:42	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39837	No
18	GOM_TRA_1PNPDE20091013_022604_000000372083_00204_39837_0628.N1	13-OCT-2009 02:26:04	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39837	No
19	GOM_TRA_1PNPDE20091013_023802_000000362083_00204_39837_0629.N1	13-OCT-2009 02:38:02	Straylight	36.000	157	The1Eri	2.9060	9300.0	72	39837	No
20	GOM_TRA_1PNPDE20091013_030031_000000422083_00204_39837_0630.N1	13-OCT-2009 03:00:31	Bright	42.000	105	6Bet Ari	2.6450	8900.0	84	39837	No
21	GOM_TRA_1PNPDE20091013_030346_000000362083_00204_39837_0631.N1	13-OCT-2009 03:03:46	Bright	35.500	53	43Bet And	2.0480	3300.0	71	39837	No
22	GOM_TRA_1PNPDE20091013_030540_000000432083_00204_39837_0632.N1	13-OCT-2009 03:05:40	Bright	43.000	173	4Bet Tri	3.0040	8900.0	86	39837	No
23	GOM_TRA_1PNPDE20091013_030728_000000412083_00204_39837_0633.N1	13-OCT-2009 03:07:28	Bright	40.500	73	57Gam1And	2.2600	13100.0	81	39837	No
24	GOM_TRA_1PNPDE20091013_031057_000000342083_00204_39837_0634.N1	13-OCT-2009 03:10:57	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39837	No
25	GOM_TRA_1PNPDE20091013_031251_000000402083_00204_39837_0635.N1	13-OCT-2009 03:12:51	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	39837	No
26	GOM_TRA_1PNPDE20091013_033803_000000282083_00204_39837_0643.N1	13-OCT-2009 03:38:03	Twilight	28.000	166	17Eps Leo	2.9800	6000.0	56	39837	No
27	GOM_TRA_1PNPDE20091013_034826_000000322083_00204_39837_0644.N1	13-OCT-2009 03:48:26	Dark	32.000	48	30Alp Hya	1.9770	4100.0	64	39837	No
28	GOM_TRA_1PNPDE20091013_035658_000000432083_00204_39837_0645.N1	13-OCT-2009 03:56:58	Dark	42.500	132	15Rho Pup	2.8030	6900.0	85	39837	No
29	GOM_TRA_1PNPDE20091013_040010_000000372083_00204_39837_0646.N1	13-OCT-2009 04:00:10	Dark	37.000	70	Zet Pup	2.2460	39000.0	74	39837	No
30	GOM_TRA_1PNPDE20091013_040519_000000372083_00205_39838_0647.N1	13-OCT-2009 04:05:19	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39838	No
31	GOM_TRA_1PNPDE20091013_040641_000000372083_00205_39838_0648.N1	13-OCT-2009 04:06:41	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39838	No
32	GOM_TRA_1PNPDE20091013_041839_000000372083_00205_39838_0649.N1	13-OCT-2009 04:18:39	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	39838	No
33	GOM_TRA_1PNPDE20091013_044106_000000422083_00205_39838_0650.N1	13-OCT-2009 04:41:06	Bright	42.000	105	6Bet Ari	2.6450	8900.0	84	39838	No
34	GOM_TRA_1PNPDE20091013_044421_000000362083_00205_39838_0651.N1	13-OCT-2009 04:44:21	Bright	35.500	53	43Bet And	2.0480	3300.0	71	39838	No
35	GOM_TRA_1PNPDE20091013_044615_000000432083_00205_39838_0652.N1	13-OCT-2009 04:46:15	Bright	43.000	173	4Bet Tri	3.0040	8900.0	86	39838	No
36	GOM_TRA_1PNPDE20091013_044803_000000402083_00205_39838_0653.N1	13-OCT-2009 04:48:03	Bright	40.000	73	57Gam1And	2.2600	13100.0	80	39838	No
37	GOM_TRA_1PNPDE20091013_045133_000000342083_00205_39838_0654.N1	13-OCT-2009 04:51:33	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39838	No
38	GOM_TRA_1PNPDE20091013_045326_000000412083_00205_39838_0655.N1	13-OCT-2009 04:53:26	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	39838	No
39	GOM_TRA_1PNPDE20091013_051839_000000292083_00205_39838_0665.N1	13-OCT-2009 05:18:39	Twilight	28.500	166	17Eps Leo	2.9800	6000.0	57	39838	No
40	GOM_TRA_1PNPDE20091013_052903_000000322083_00205_39838_0666.N1	13-OCT-2009 05:29:03	Dark	32.000	48	30Alp Hya	1.9770	4100.0	64	39838	No
41	GOM_TRA_1PNPDE20091013_053735_000000432083_00205_39838_0667.N1	13-OCT-2009 05:37:35	Dark	42.500	132	15Rho Pup	2.8030	6900.0	85	39838	No
42	GOM_TRA_1PNPDE20091013_054046_000000372083_00205_39838_0668.N1	13-OCT-2009 05:40:46	Dark	37.000	70	Zet Pup	2.2460	39000.0	74	39838	No
43	GOM_TRA_1PNPDE20091013_054556_000000372083_00206_39839_0669.N1	13-OCT-2009 05:45:56	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39839	No
44	GOM_TRA_1PNPDE20091013_054718_000000372083_00206_39839_0670.N1	13-OCT-2009 05:47:18	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39839	No
45	GOM_TRA_1PNPDE20091013_055915_000000372083_00206_39839_0671.N1	13-OCT-2009 05:59:15	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	39839	No
46	GOM_TRA_1PNPDE20091013_062141_000000422083_00206_39839_0672.N1	13-OCT-2009 06:21:41	Bright	42.000	105	6Bet Ari	2.6450	8900.0	84	39839	No
47	GOM_TRA_1PNPDE20091013_062457_000000362083_00206_39839_0673.N1	13-OCT-2009 06:24:57	Bright	35.500	53	43Bet And	2.0480	3300.0	71	39839	No
48	GOM_TRA_1PNPDE20091013_062650_000000432083_00206_39839_0674.N1	13-OCT-2009 06:26:50	Bright	43.000	173	4Bet Tri	3.0040	8900.0	86	39839	No
49	GOM_TRA_1PNPDE20091013_062838_000000402083_00206_39839_0675.N1	13-OCT-2009 06:28:38	Bright	40.000	73	57Gam1And	2.2600	13100.0	80	39839	No
50	GOM_TRA_1PNPDE20091013_063209_000000342083_00206_39839_0676.N1	13-OCT-2009 06:32:09	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39839	No
51	GOM_TRA_1PNPDE20091013_063401_000000412083_00206_39839_0677.N1	13-OCT-2009 06:34:01	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	39839	No
52	GOM_TRA_1PNPDE20091013_210444_000000362083_00215_39848_0748.N1	13-OCT-2009 21:04:44	Straylight	36.000	157	The1Eri	2.9060	9300.0	72	39848	No
53	GOM_TRA_1PNPDE20091013_212659_000000422083_00215_39848_0749.N1	13-OCT-2009 21:26:59	Bright	41.500	105	6Bet Ari	2.6450	8900.0	83	39848	No
54	GOM_TRA_1PNPDE20091013_213017_000000362083_00215_39848_0750.N1	13-OCT-2009 21:30:17	Bright	35.500	53	43Bet And	2.0480	3300.0	71	39848	No

55	GOM_TRA_1PNPDE20091013_213207_000000432083_00215_39848_0751.N1	13-OCT-2009 21:32:07	Bright	42.500	173	4Bet Tri	3.0040	8900.0	85	39848	No
56	GOM_TRA_1PNPDE20091013_213355_000000402083_00215_39848_0752.N1	13-OCT-2009 21:33:55	Bright	40.000	73	57Gam1And	2.2600	13100.	80	39848	No
57	GOM_TRA_1PNPDE20091013_213729_000000342083_00215_39848_0753.N1	13-OCT-2009 21:37:29	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39848	No
58	GOM_TRA_1PNPDE20091013_213917_000000412083_00215_39848_0754.N1	13-OCT-2009 21:39:17	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	39848	No
59	GOM_TRA_1PNPDE20091013_220440_000000292083_00215_39848_0755.N1	13-OCT-2009 22:04:40	Twilight	29.000	166	17Eps Leo	2.9800	6000.0	58	39848	No
60	GOM_TRA_1PNPDE20091013_221509_000000322083_00215_39848_0767.N1	13-OCT-2009 22:15:09	Dark	32.000	48	30Alp Hya	1.9770	4100.0	64	39848	Yes
61	GOM_TRA_1PNPDE20091013_222347_000000432083_00215_39848_0768.N1	13-OCT-2009 22:23:47	Dark	43.000	132	15Rho Pup	2.8030	6900.0	86	39848	No
62	GOM_TRA_1PNPDE20091013_222655_000000382083_00215_39848_0769.N1	13-OCT-2009 22:26:55	Dark	37.500	70	Zet Pup	2.2460	39000.	75	39848	No
63	GOM_TRA_1PNPDE20091013_223204_000000372083_00216_39849_0770.N1	13-OCT-2009 22:32:04	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39849	No
64	GOM_TRA_1PNPDE20091013_223325_000000372083_00216_39849_0771.N1	13-OCT-2009 22:33:25	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39849	No
65	GOM_TRA_1PNPDE20091013_224520_000000362083_00216_39849_0772.N1	13-OCT-2009 22:45:20	Straylight	36.000	157	The1Eri	2.9060	9300.0	72	39849	No
66	GOM_TRA_1PNPDE20091013_230734_000000422083_00216_39849_0773.N1	13-OCT-2009 23:07:34	Bright	41.500	105	6Bet Ari	2.6450	8900.0	83	39849	No
67	GOM_TRA_1PNPDE20091013_231052_000000362083_00216_39849_0774.N1	13-OCT-2009 23:10:52	Bright	35.500	53	43Bet And	2.0480	3300.0	71	39849	No
68	GOM_TRA_1PNPDE20091013_231242_000000432083_00216_39849_0775.N1	13-OCT-2009 23:12:42	Bright	42.500	173	4Bet Tri	3.0040	8900.0	85	39849	No
69	GOM_TRA_1PNPDE20091013_231431_000000402083_00216_39849_0776.N1	13-OCT-2009 23:14:31	Bright	39.500	73	57Gam1And	2.2600	13100.	79	39849	No
70	GOM_TRA_1PNPDE20091013_231805_000000342083_00216_39849_0777.N1	13-OCT-2009 23:18:05	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39849	No
71	GOM_TRA_1PNPDE20091013_231952_000000412083_00216_39849_0778.N1	13-OCT-2009 23:19:52	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	39849	No
72	GOM_TRA_1PNPDE20091013_234517_000000292083_00216_39849_0779.N1	13-OCT-2009 23:45:17	Twilight	28.500	166	17Eps Leo	2.9800	6000.0	57	39849	No
73	GOM_TRA_1PNPDE20091013_235545_000000332083_00216_39849_0787.N1	13-OCT-2009 23:55:45	Dark	32.500	48	30Alp Hya	1.9770	4100.0	65	39849	Yes

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

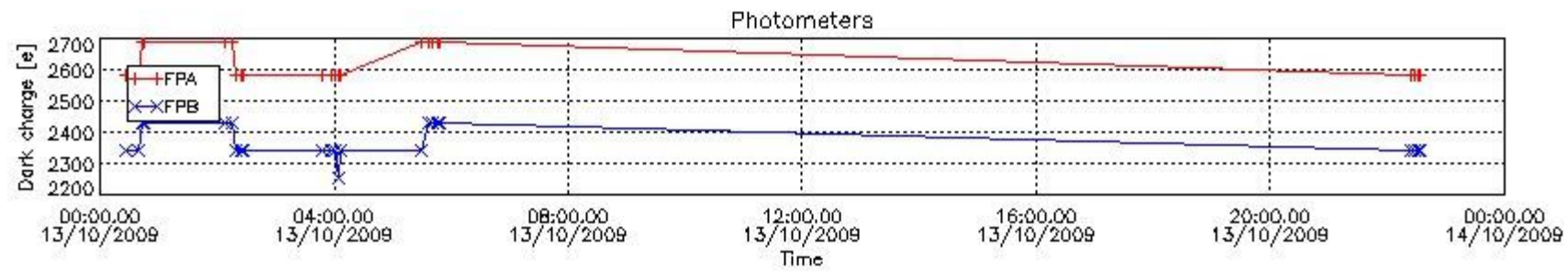
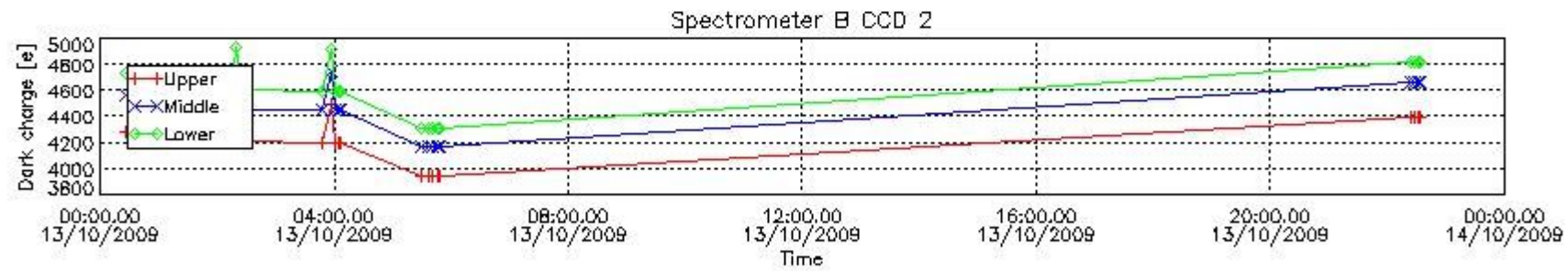
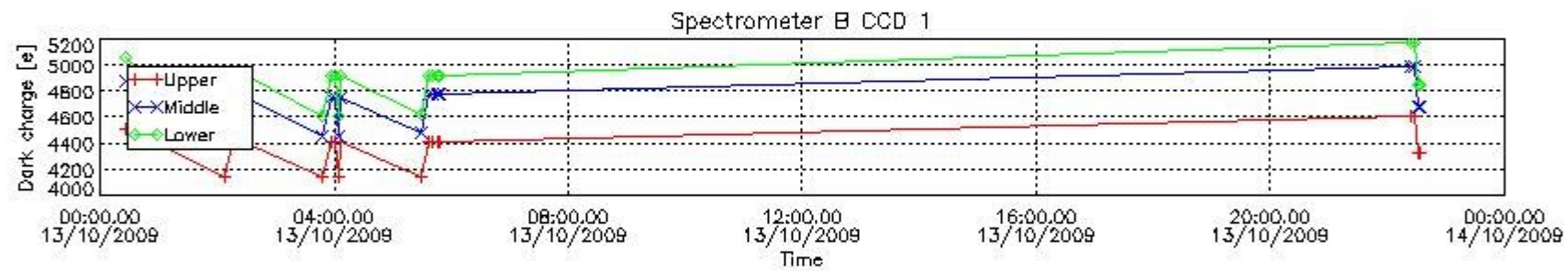
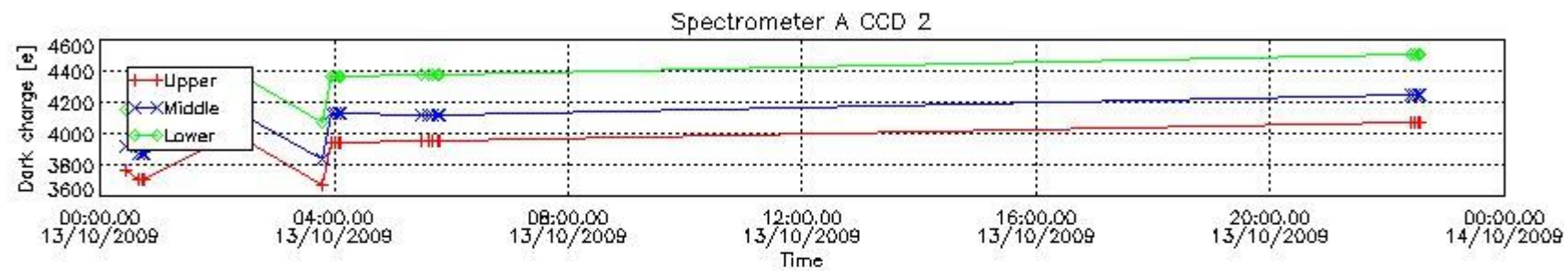
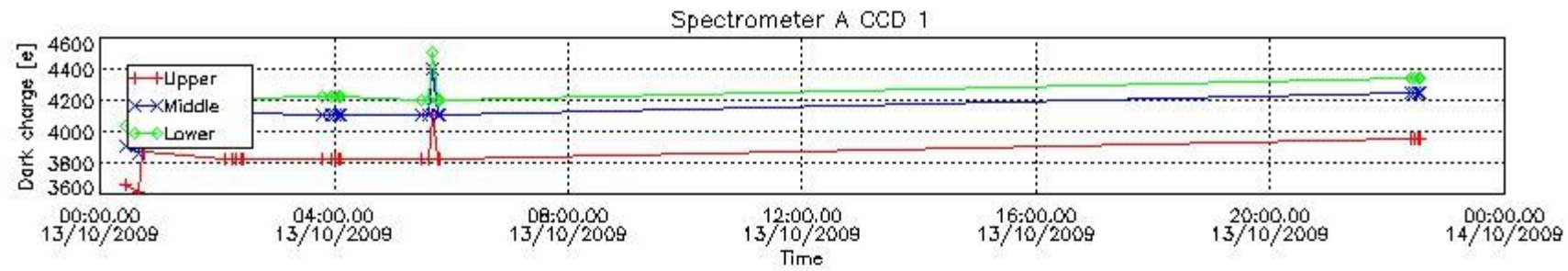
from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative 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_1PNPDE20091013_210444_000000362083_00215_39848_0748.N1	DC map used
GOM_TRA_1PNPDE20091013_212659_000000422083_00215_39848_0749.N1	DC map used
GOM_TRA_1PNPDE20091013_213017_000000362083_00215_39848_0750.N1	DC map used
GOM_TRA_1PNPDE20091013_213207_000000432083_00215_39848_0751.N1	DC map used
GOM_TRA_1PNPDE20091013_213355_000000402083_00215_39848_0752.N1	DC map used
GOM_TRA_1PNPDE20091013_213729_000000342083_00215_39848_0753.N1	DC map used
GOM_TRA_1PNPDE20091013_213917_000000412083_00215_39848_0754.N1	DC map used
GOM_TRA_1PNPDE20091013_220440_000000292083_00215_39848_0755.N1	DC map used

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



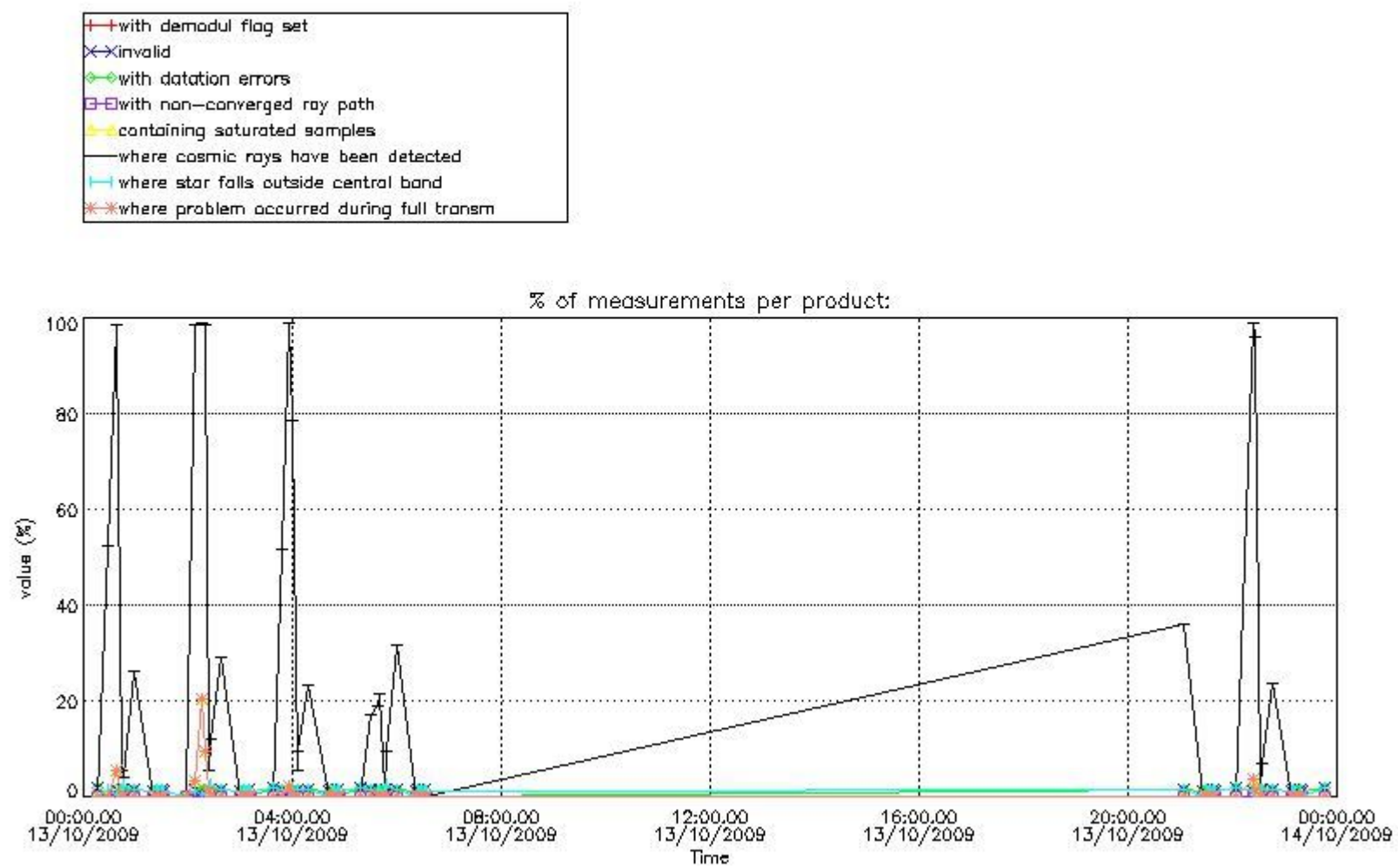
5. Demodulation flag and quality information monitoring

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.

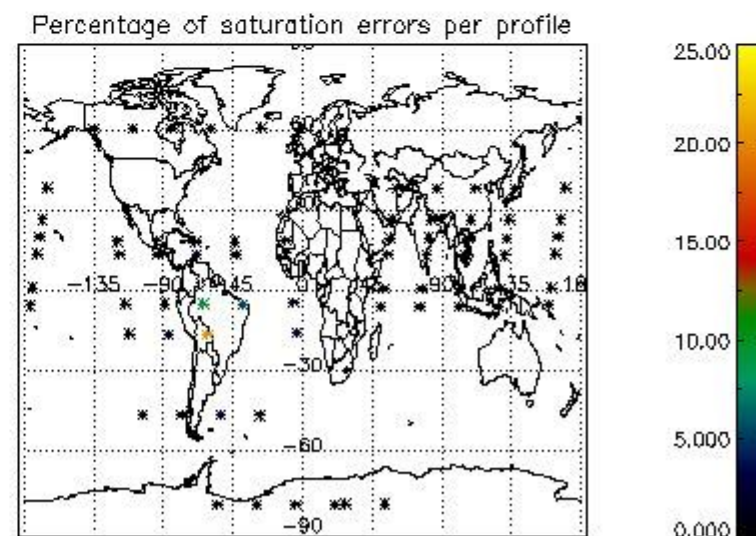
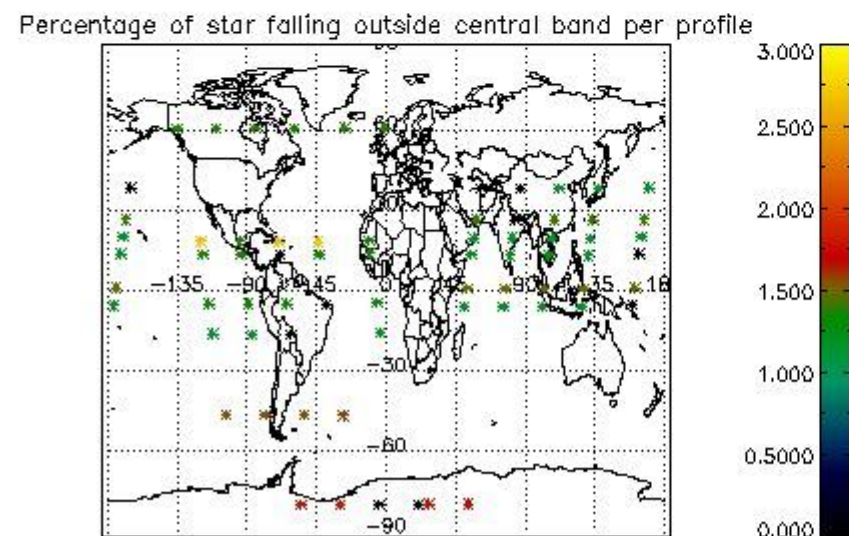
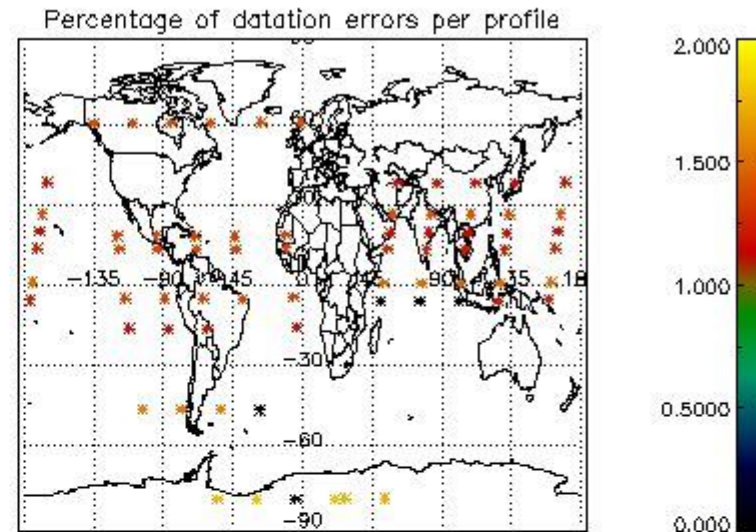
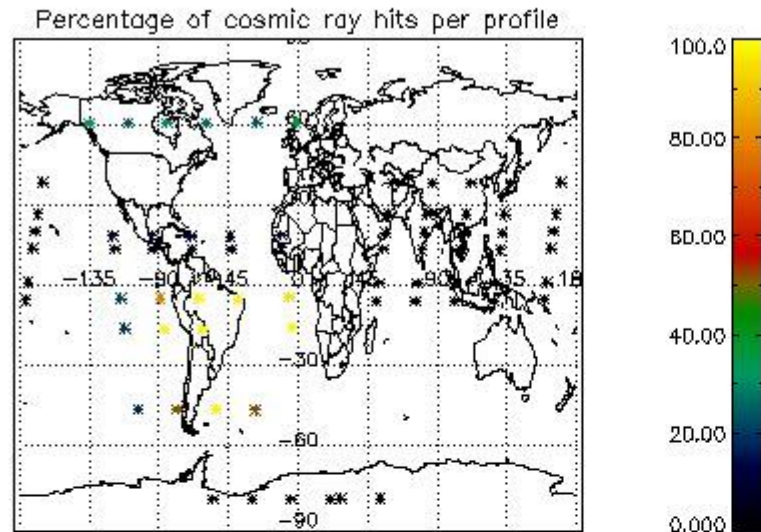
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	33.8028 %
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)



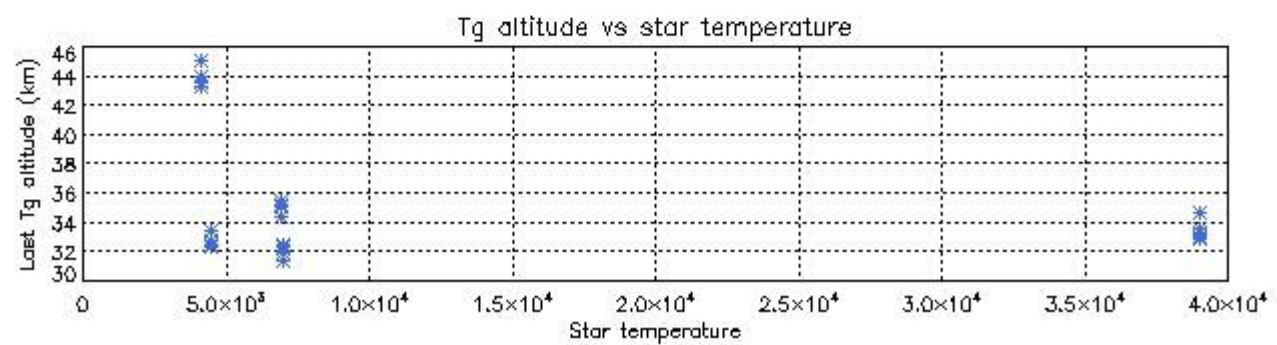
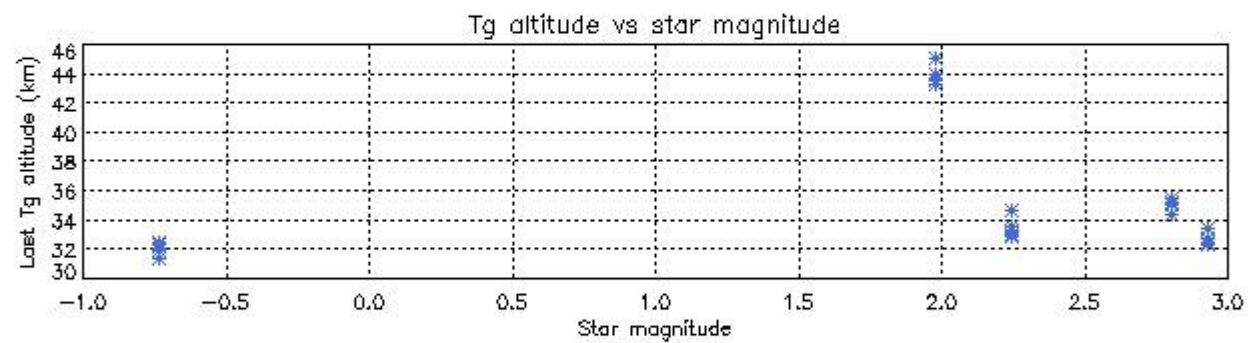
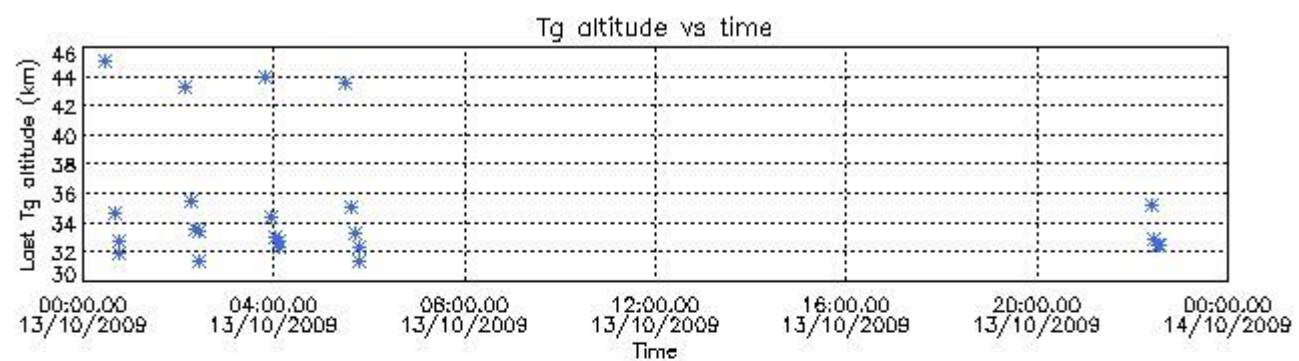
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	35.075	33.859	NaN
St. deviation:	4.3346	1.5039	NaN
Maximum:	45.090	37.843	NaN
Minimum:	31.363	32.278	NaN
Number of data:	23.000	36.000	NaN

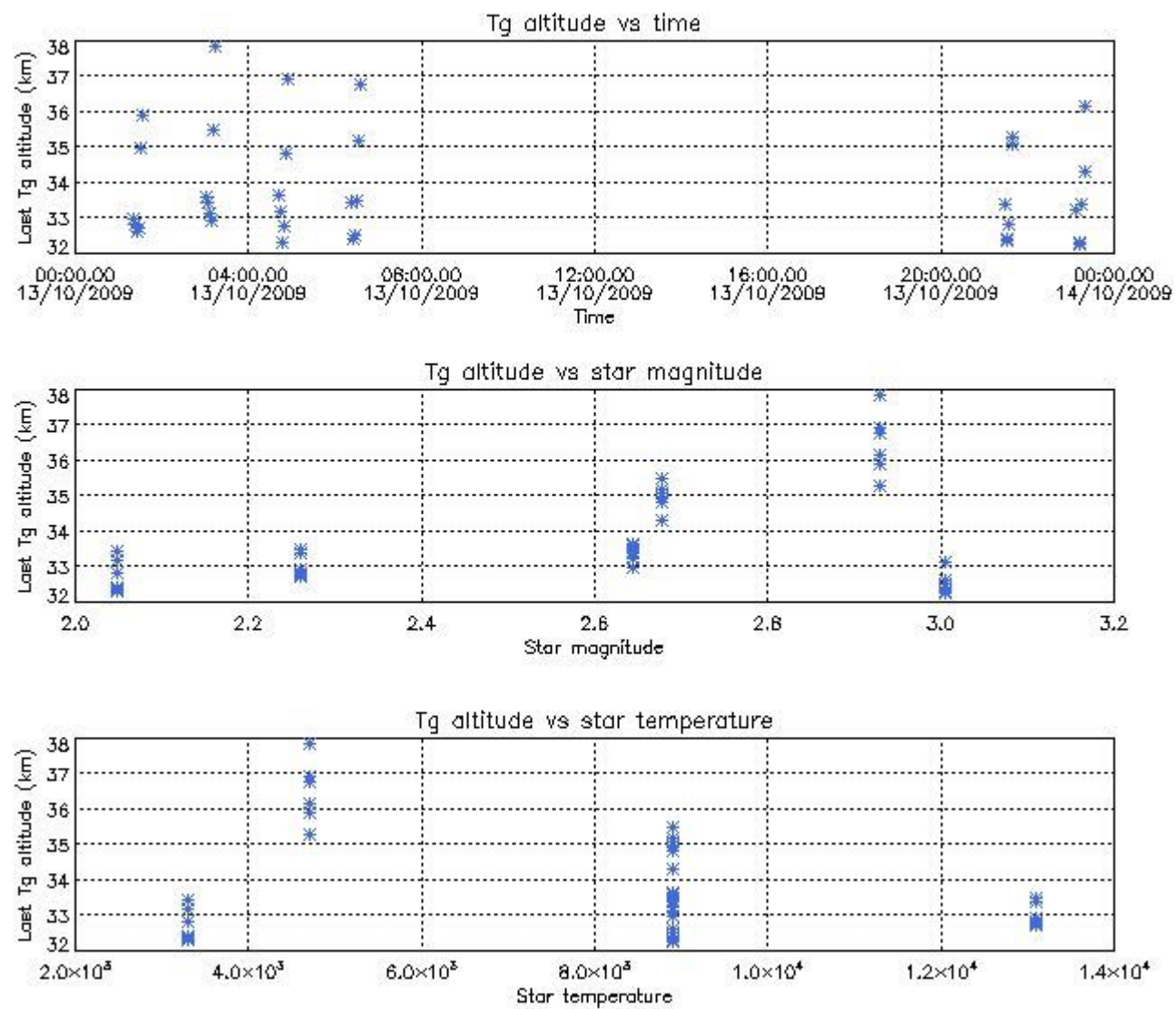
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

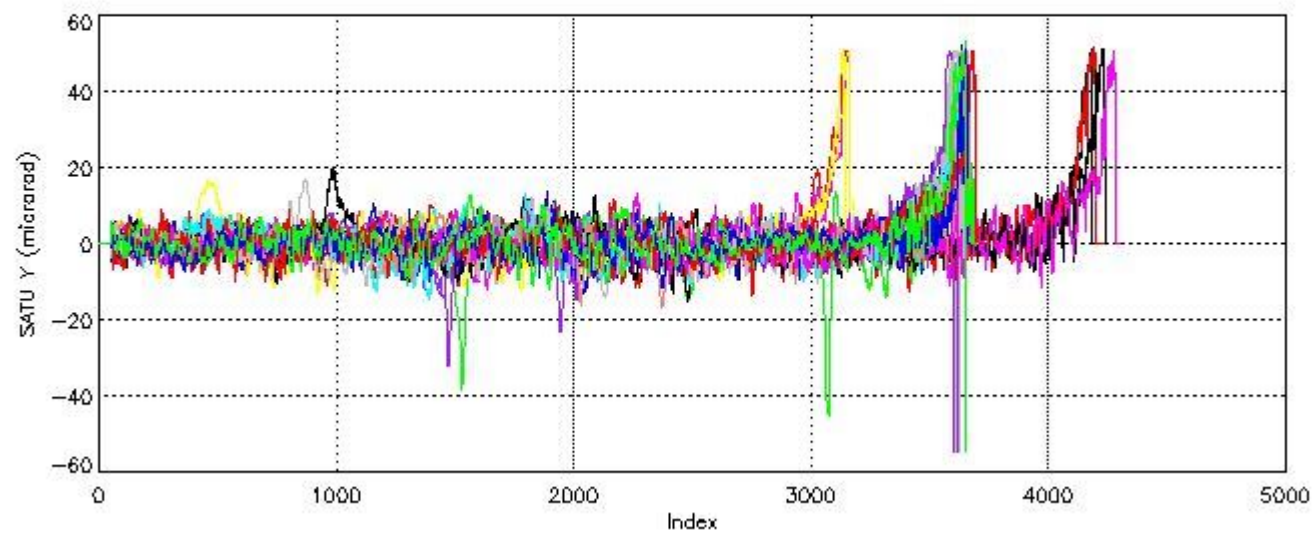
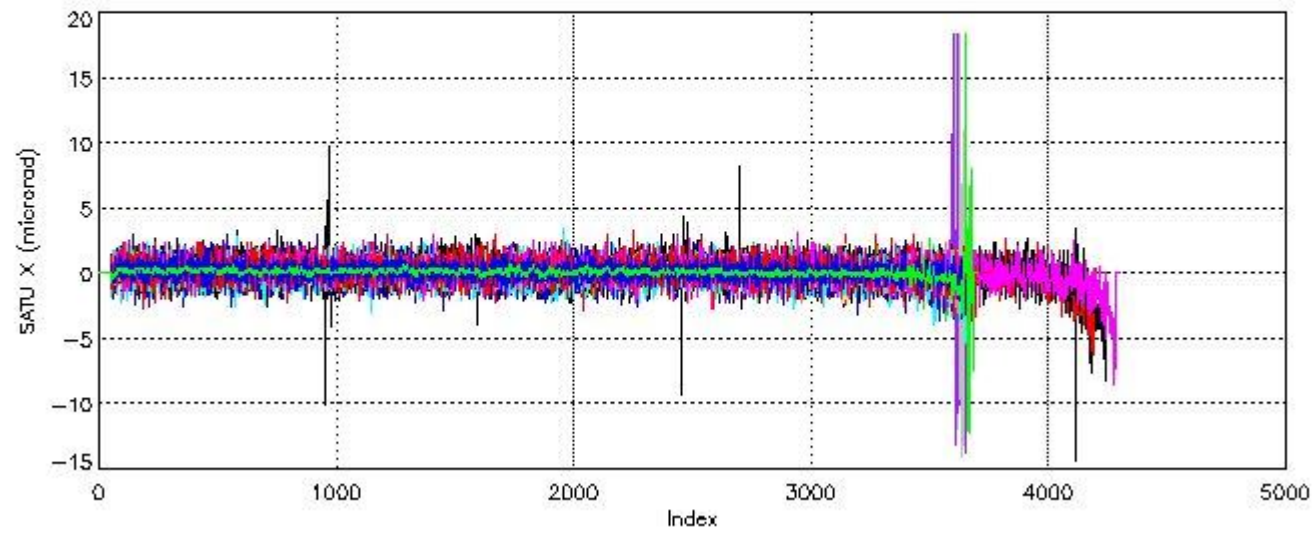


7. Star Acquisition and Tracking Unit (SATU)

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:	0.18811	0.082501	0.27349	0.10879
St. deviation:	0.50361	2.8649	0.91173	3.0980
Maximum:	9.7000	19.600	5.6000	19.700
Minimum:	-10.100	-12.900	-5.9000	-14.400

Number of data:	24450.	24450.	40000.	40000.
-----------------	--------	--------	--------	--------

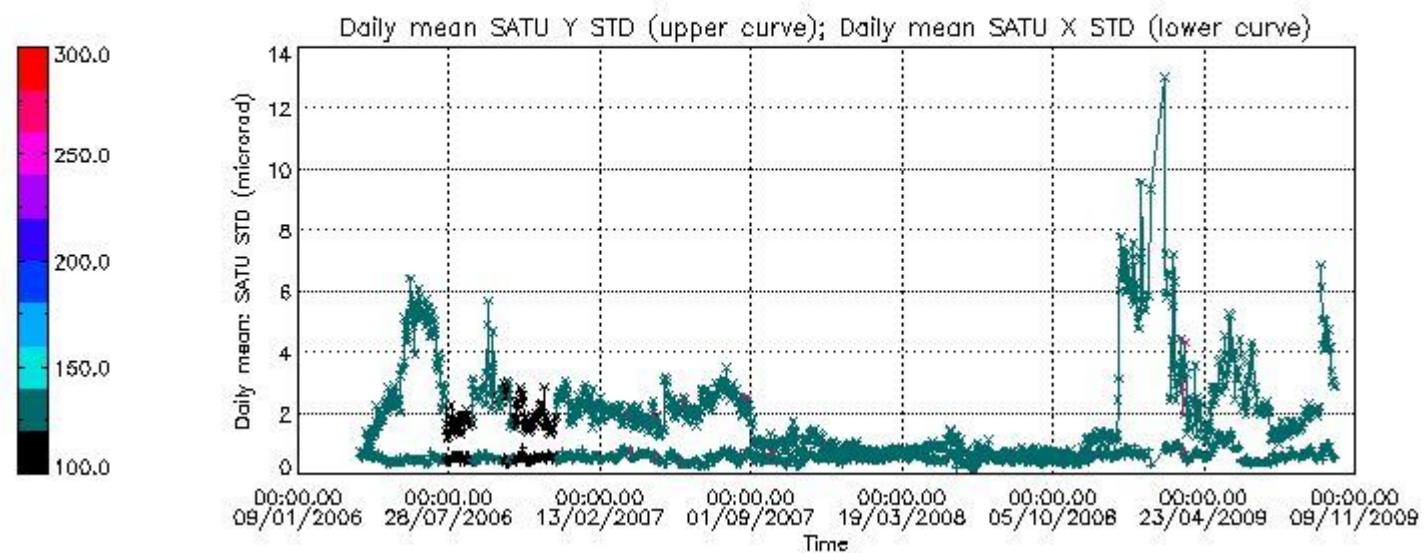
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

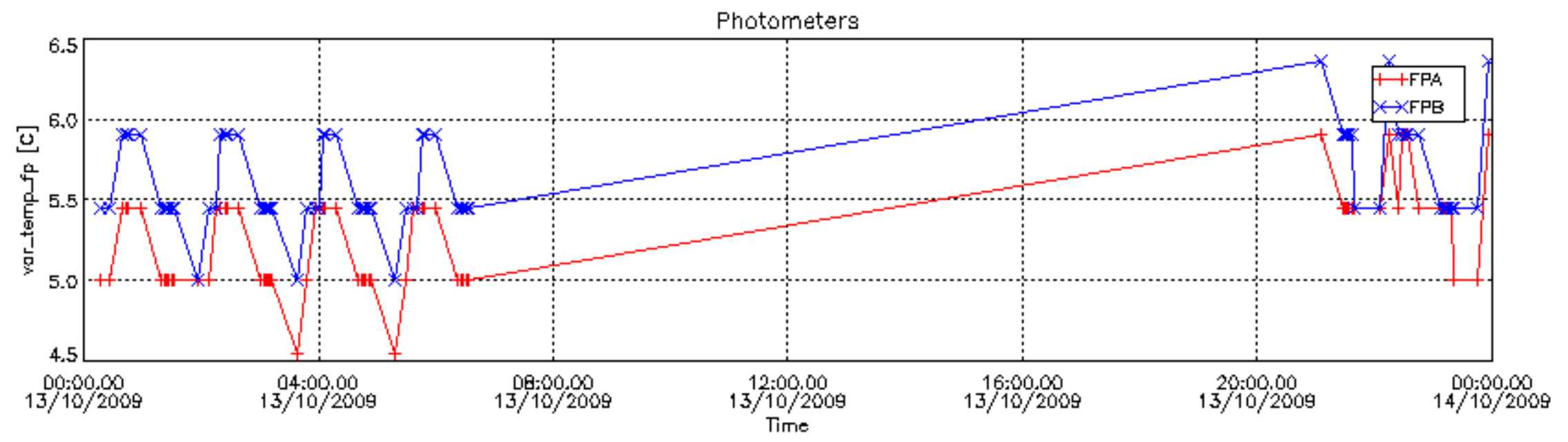
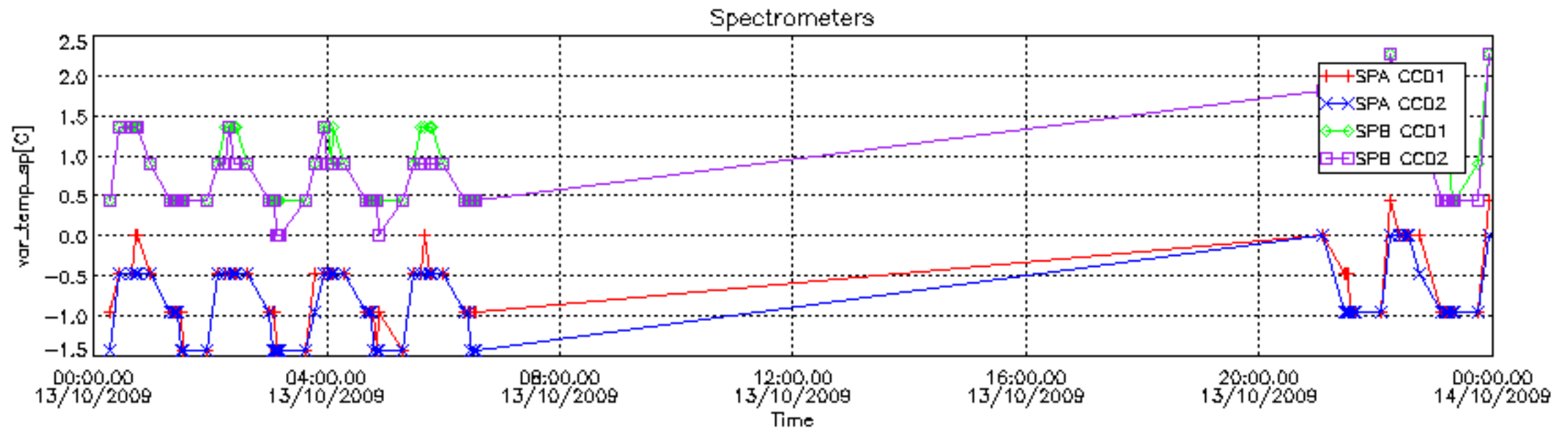
Lower curve: STD of SATU X axis

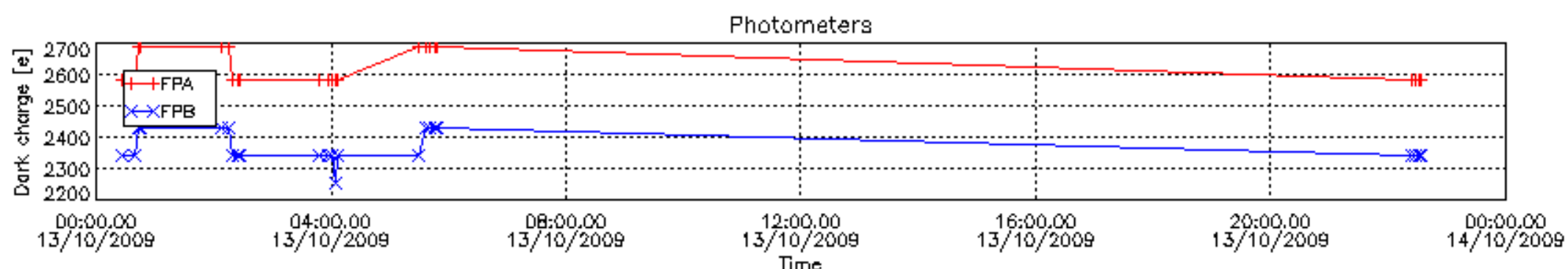
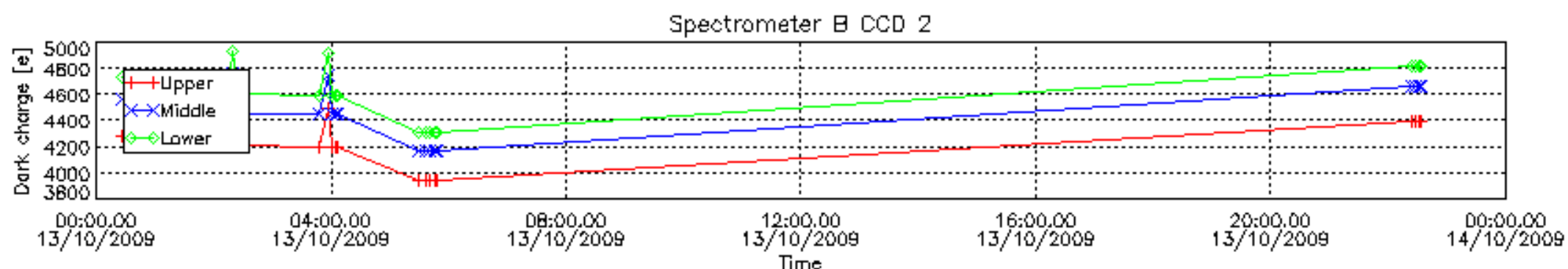
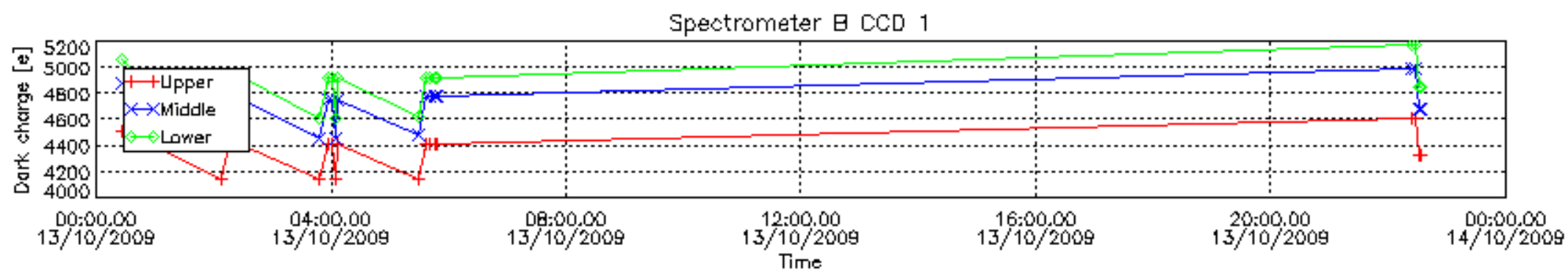
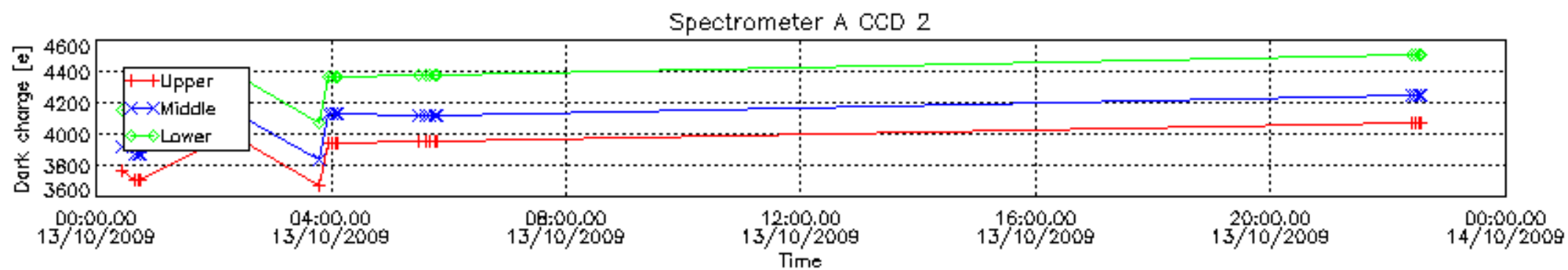
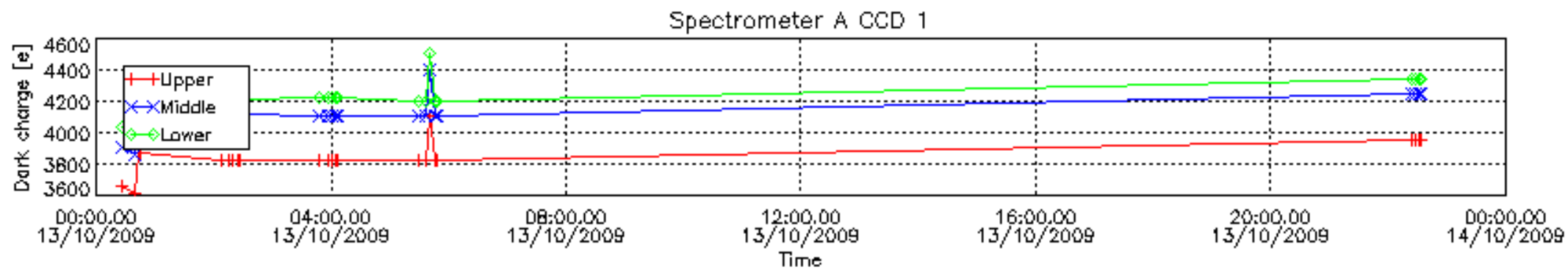


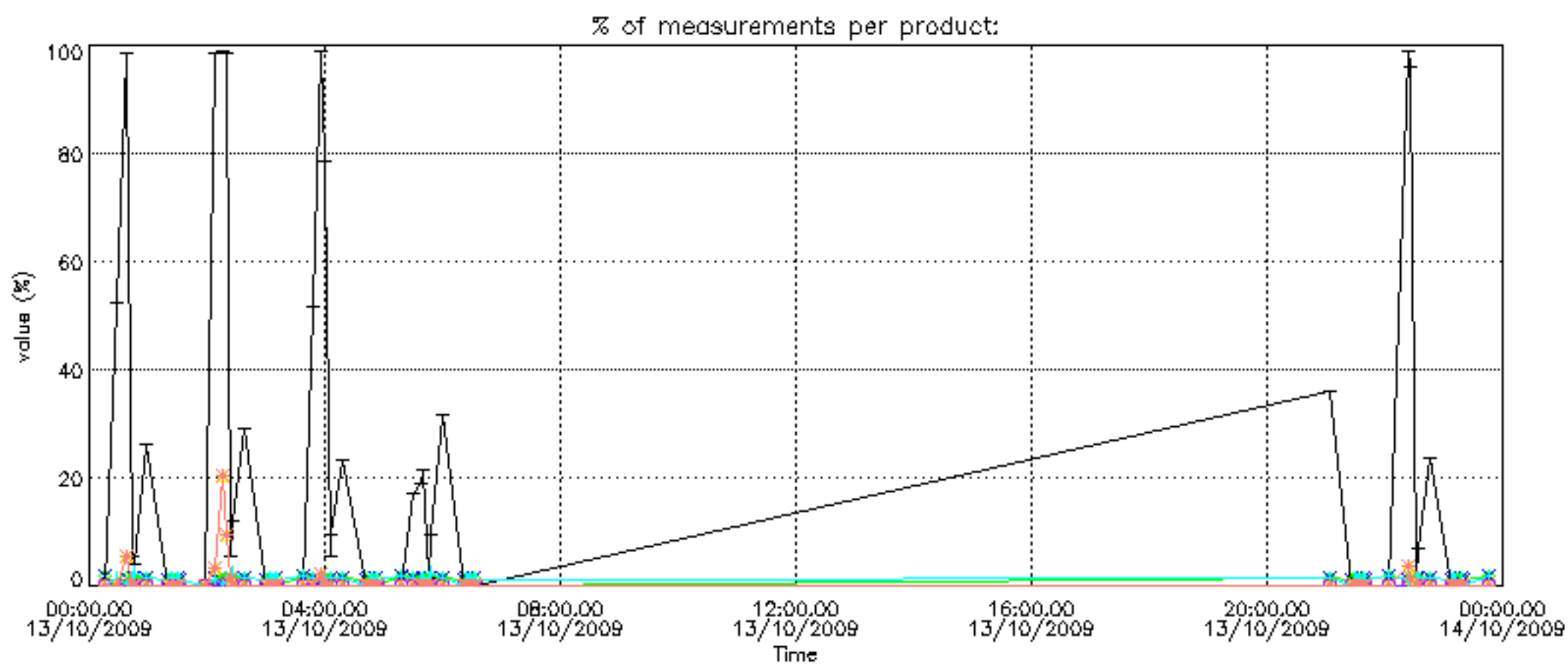
8. Auxiliary Data Files used for the production reported in section 2.4

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.

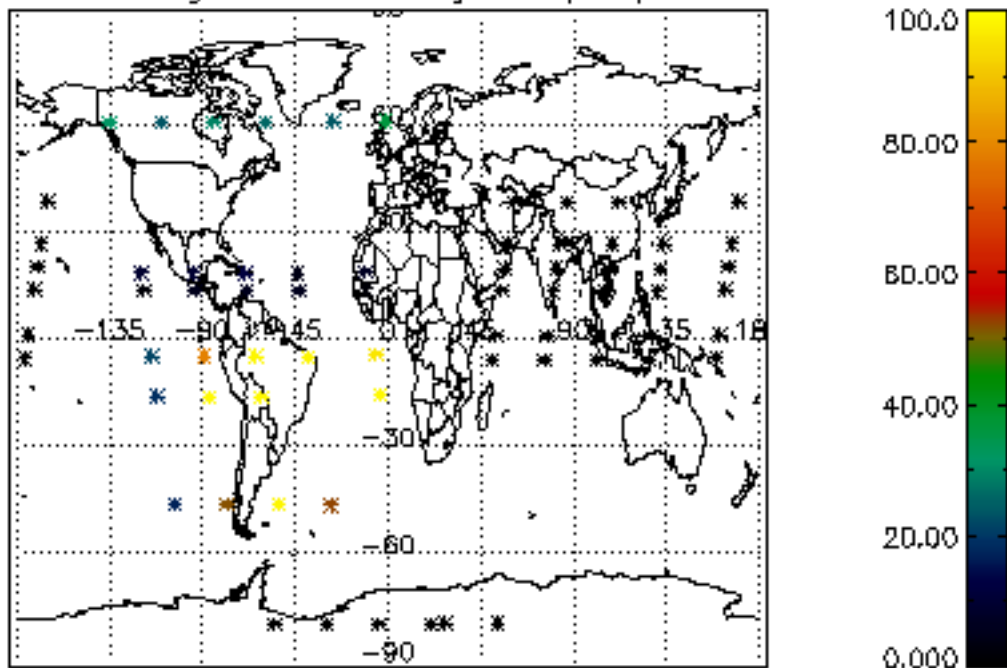
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091007_100119_20091005_000000_20100101_000000	1	13-OCT-2009 00:16:50
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091013_072825_20091011_000000_20100101_000000	52	13-OCT-2009 21:04:44
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	13-OCT-2009 00:16:50
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-OCT-2009 00:16:50
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	13-OCT-2009 00:16:50
ECMWF_FILE	AUX_ECF_AXNECM20091012_062113_20091012_210000_20091013_090000	1	13-OCT-2009 00:16:50
ECMWF_FILE	AUX_ECF_AXNECM20091013_100114_20091013_210000_20091014_090000	52	13-OCT-2009 21:04:44
OPTIONAL_ECMWF_FILE	MISSING	1	13-OCT-2009 00:16:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091012_224213_000060572083_00201_39834_8954.N1	1	13-OCT-2009 00:16:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091013_002310_000057382083_00202_39835_8955.N1	3	13-OCT-2009 00:38:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091013_020407_000041442083_00203_39836_8956.N1	14	13-OCT-2009 02:07:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091013_031830_000057382083_00204_39837_8957.N1	26	13-OCT-2009 03:38:03
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091013_010111_20091012_193834_20091022_210448	39	13-OCT-2009 05:18:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091013_210108_000041442083_00215_39848_8959.N1	52	13-OCT-2009 21:04:44
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091013_010111_20091012_193834_20091022_210448	60	13-OCT-2009 22:15:09
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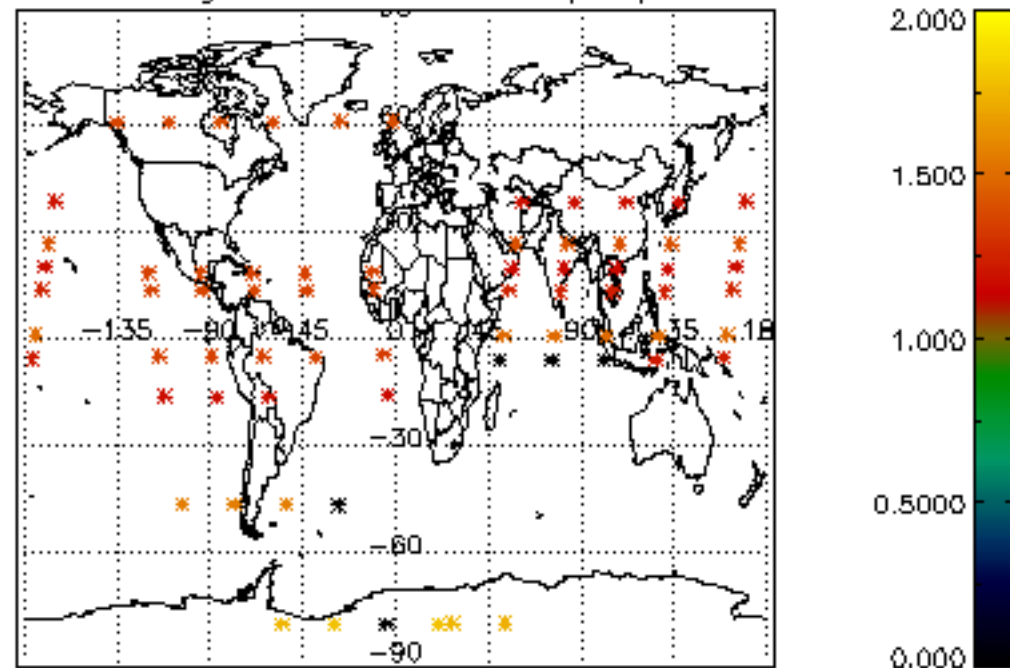




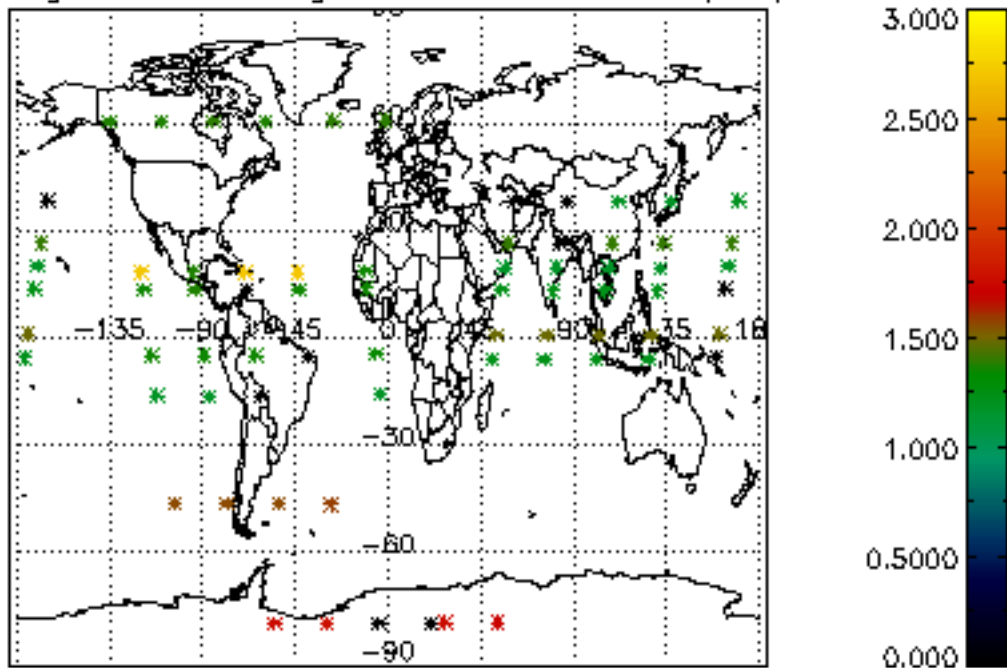
Percentage of cosmic ray hits per profile



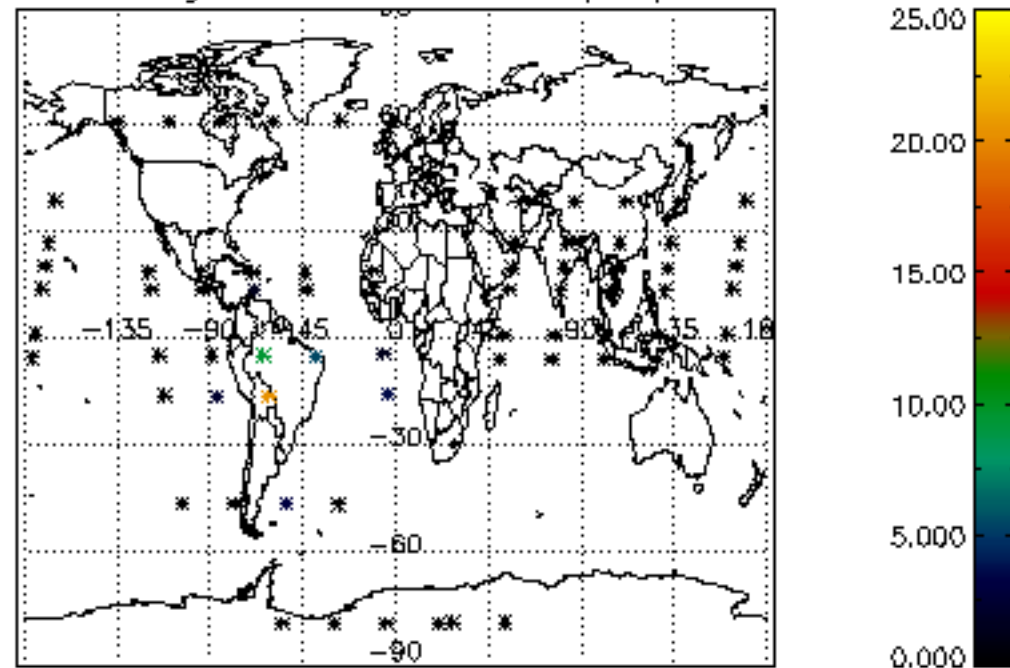
Percentage of datation errors per profile



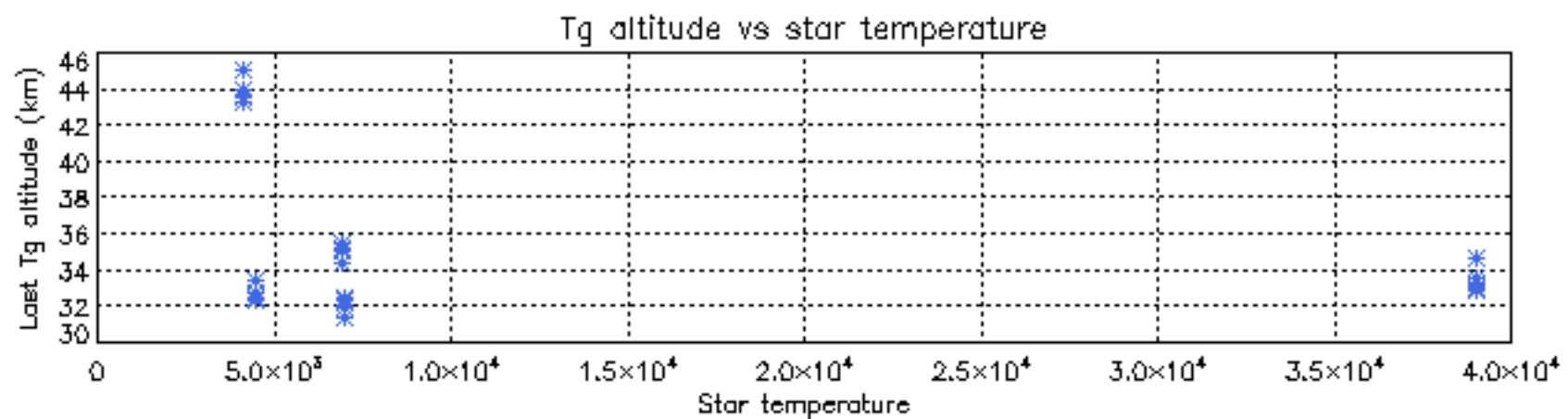
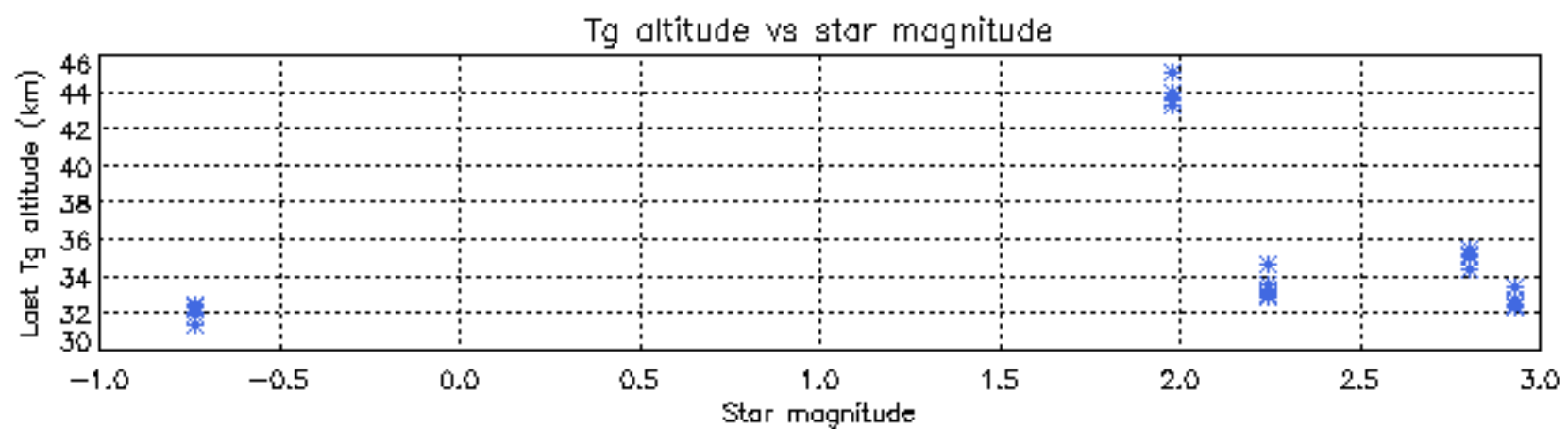
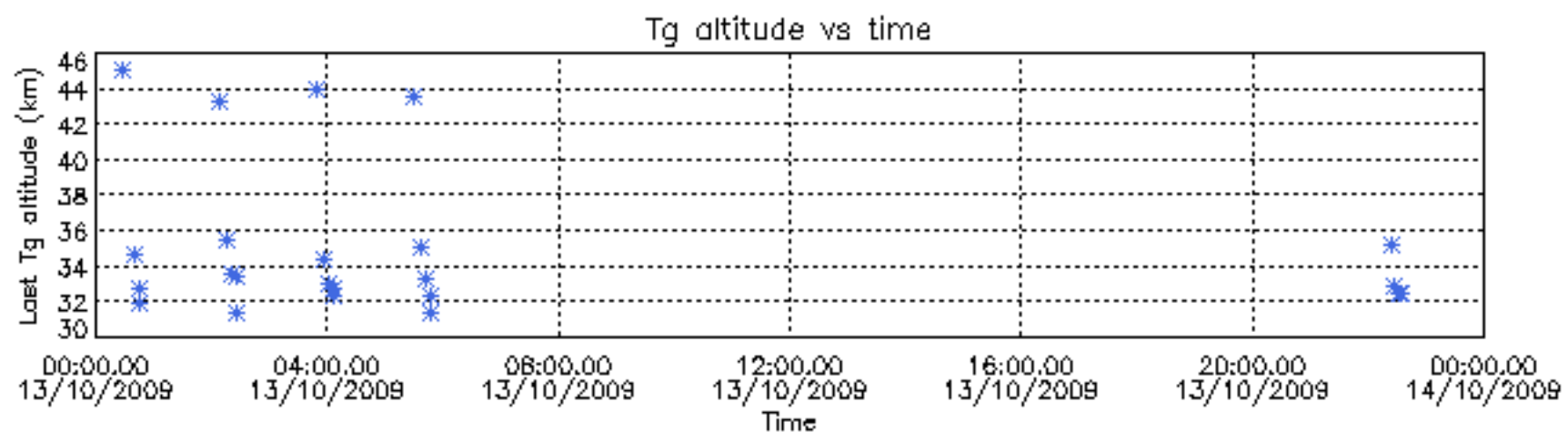
Percentage of star falling outside central band per profile



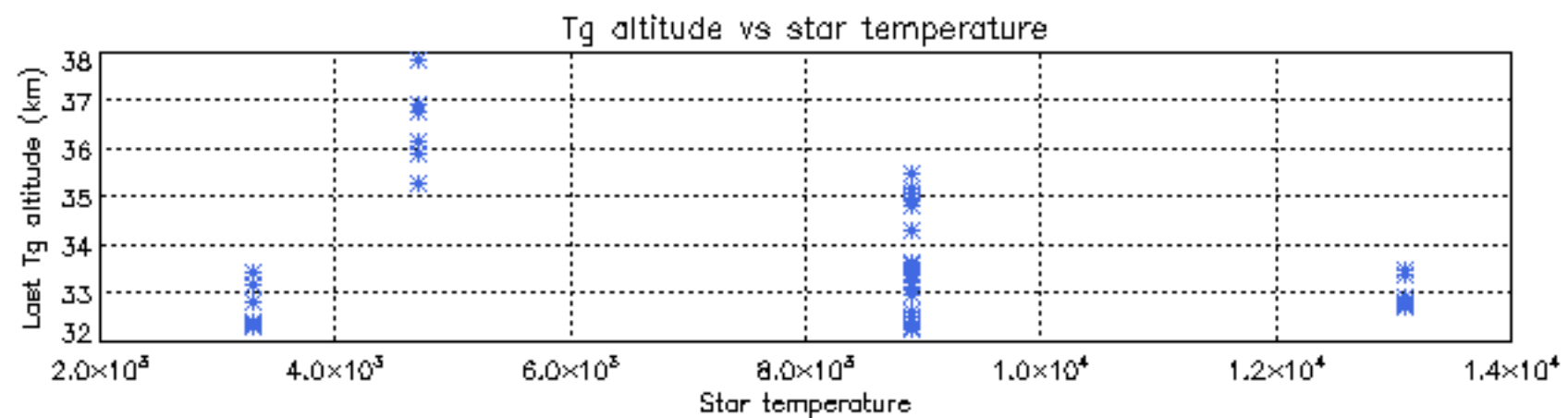
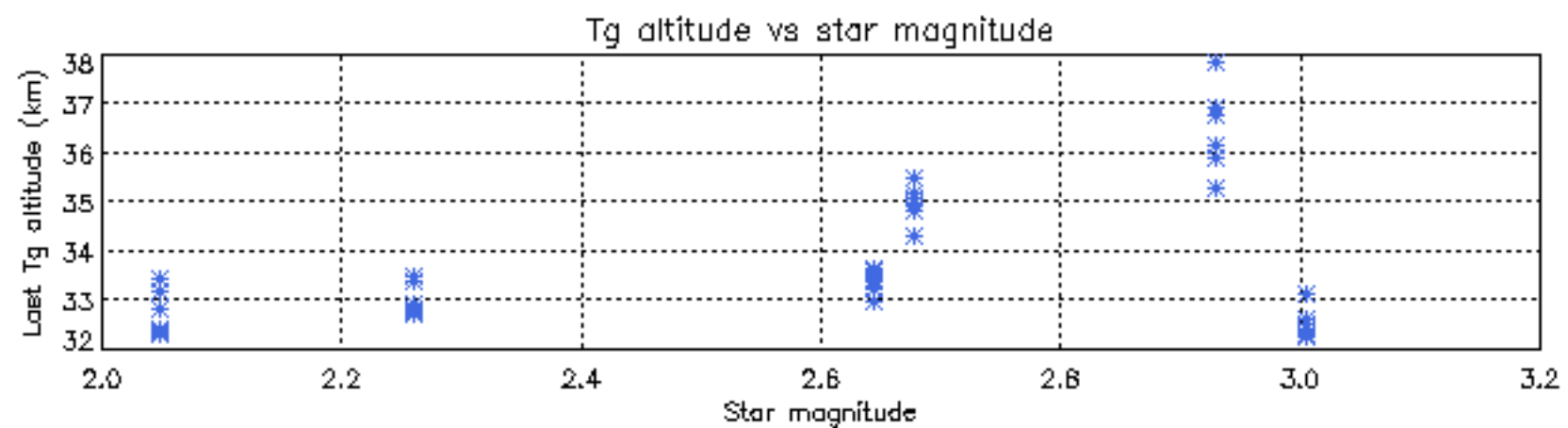
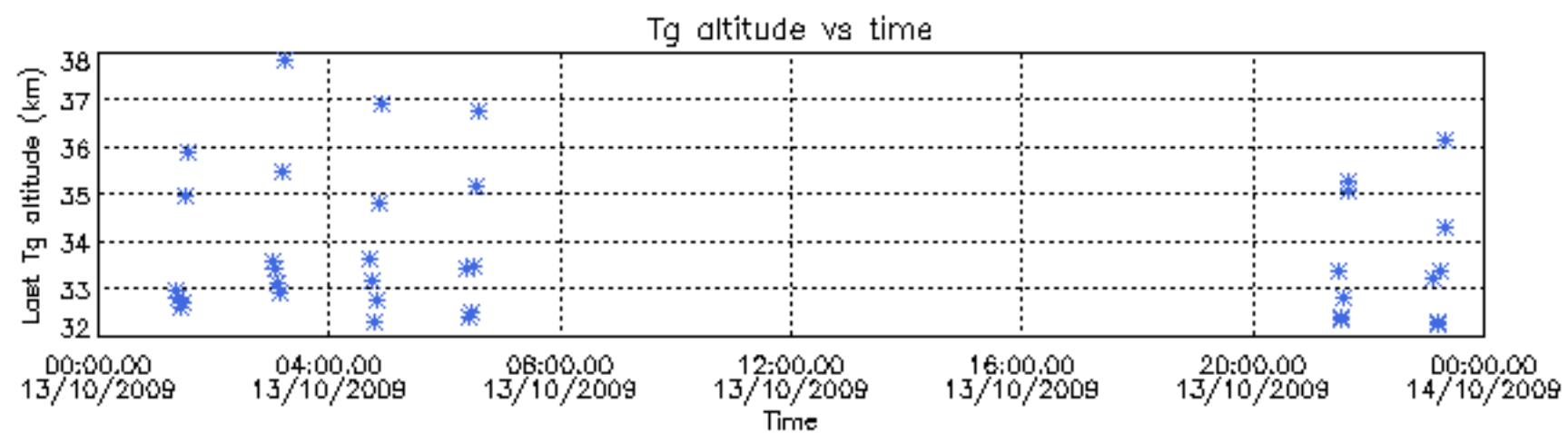
Percentage of saturation errors per profile

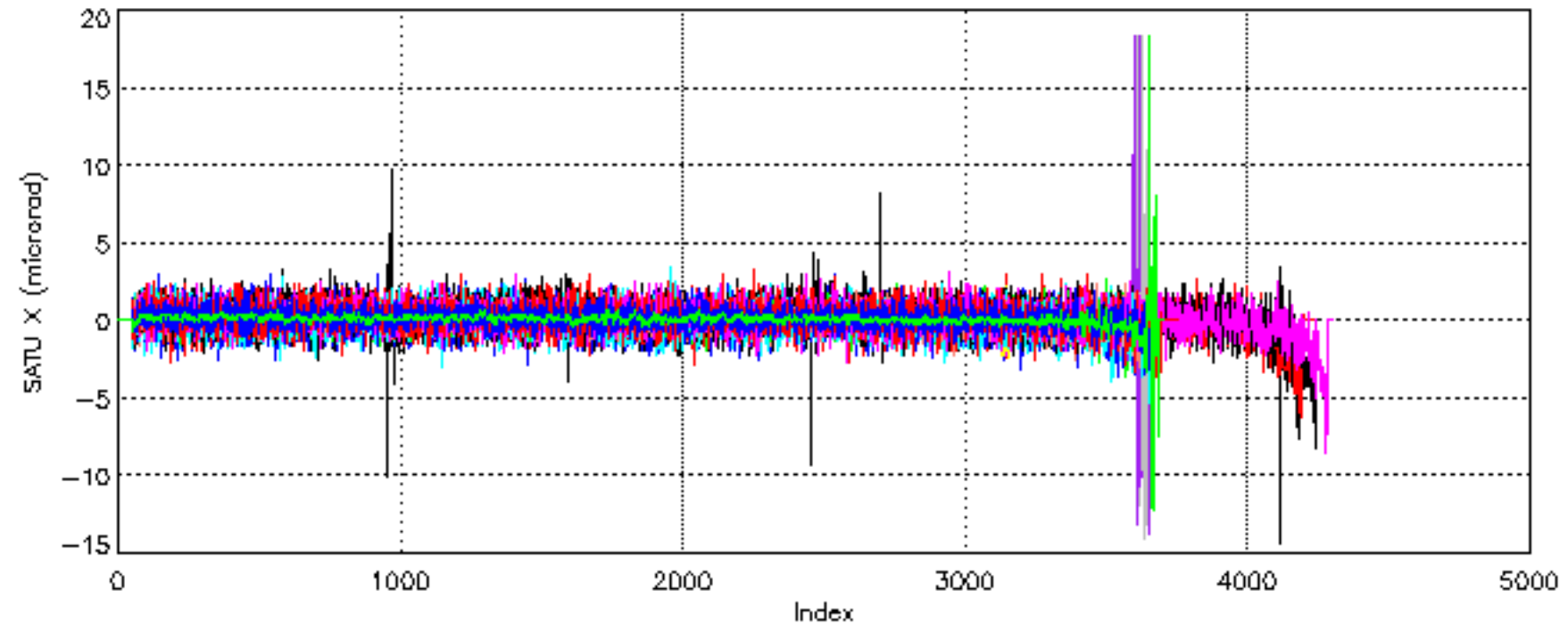


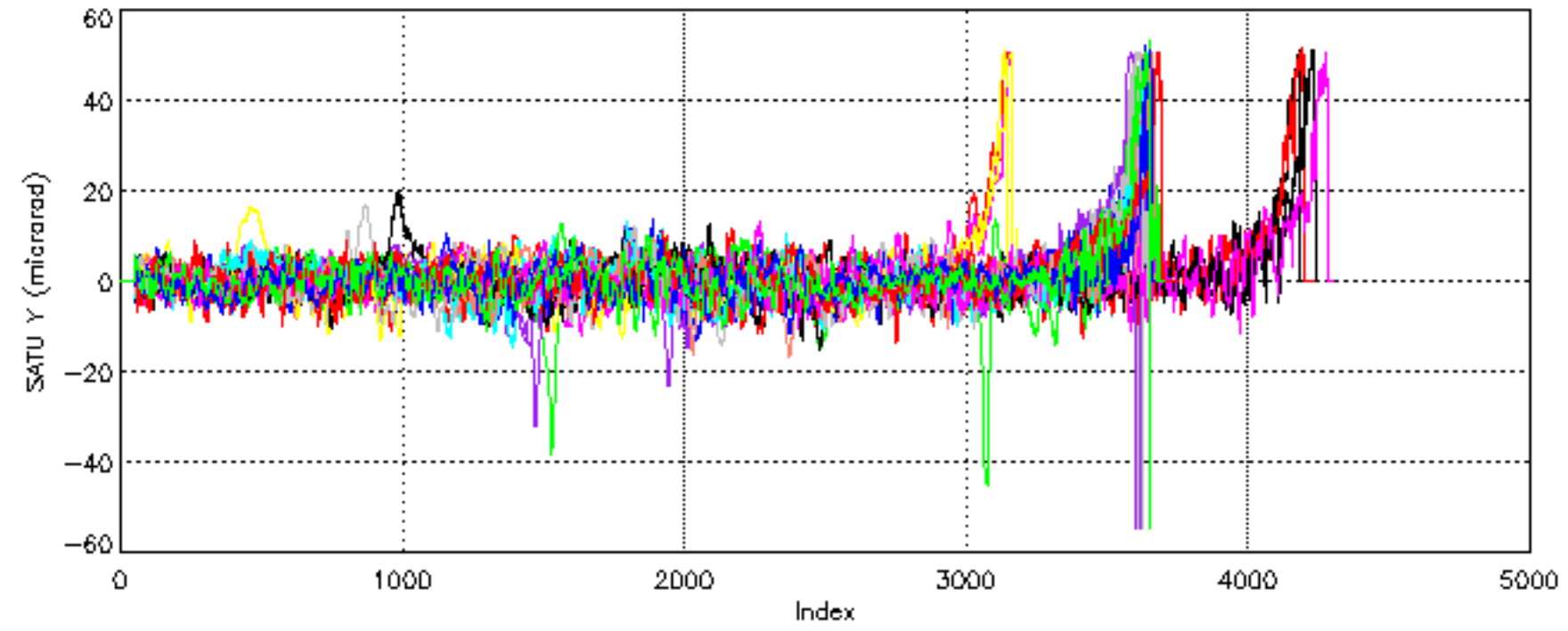
Tangent altitude at which the star is lost

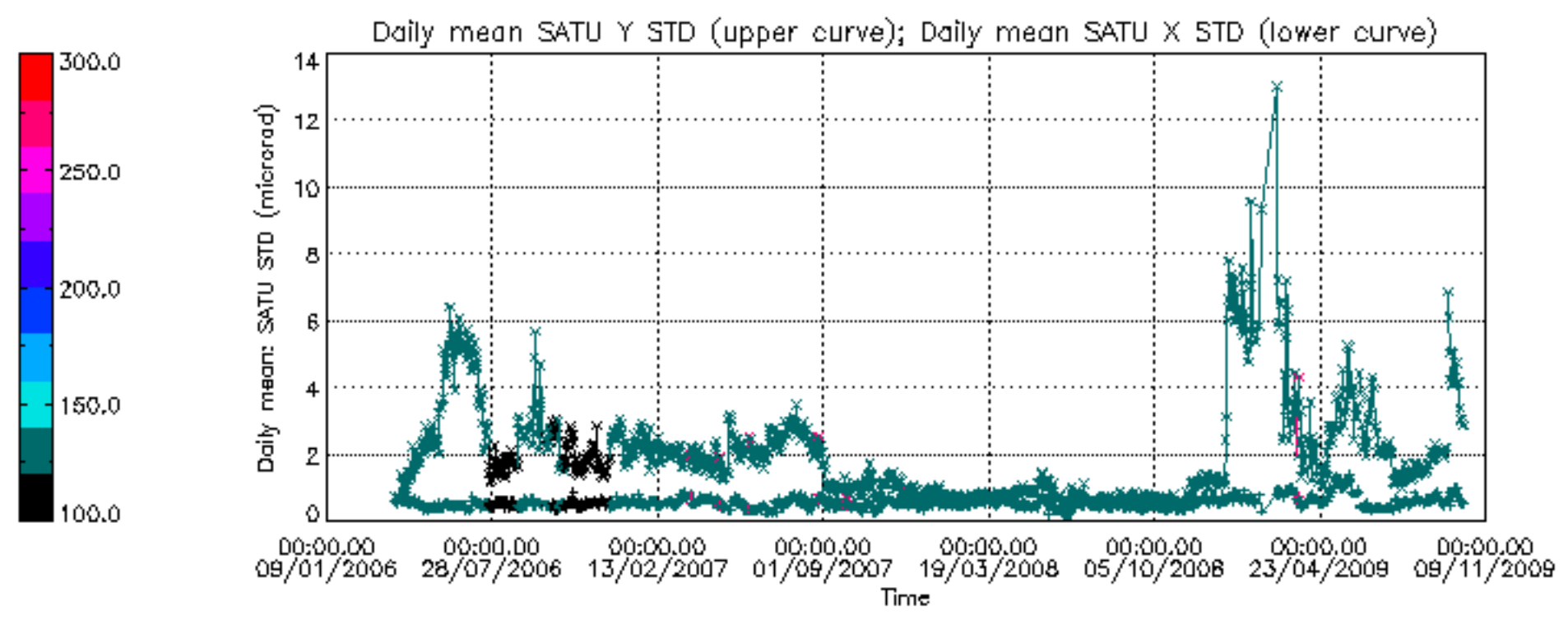


Tangent altitude at which the star is lost









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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
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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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1; -448.7; 01-OCT-2009 01:50:29; Dark ; 35.5; 132; 15Rho Pup ; 2.80; 6900;occ; 71; 0;39664
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
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4; -125.6; 01-OCT-2009 03:36:28; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39665
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
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9; 2434.3; 01-OCT-2009 04:19:08; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39666
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11; 2944.9; 01-OCT-2009 04:27:39; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39666
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11; 2944.1; 01-OCT-2009 06:08:14; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39667
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3; 257.6; 25-OCT-2009 07:50:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40012
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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
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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; 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
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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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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; 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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3; 6313.3; 26-OCT-2009 19:02:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40032
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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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