GOMOS Daily Report 10-OCT-2009

Level 0 and Level 1 products

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Level 2 products

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1. General Info

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.

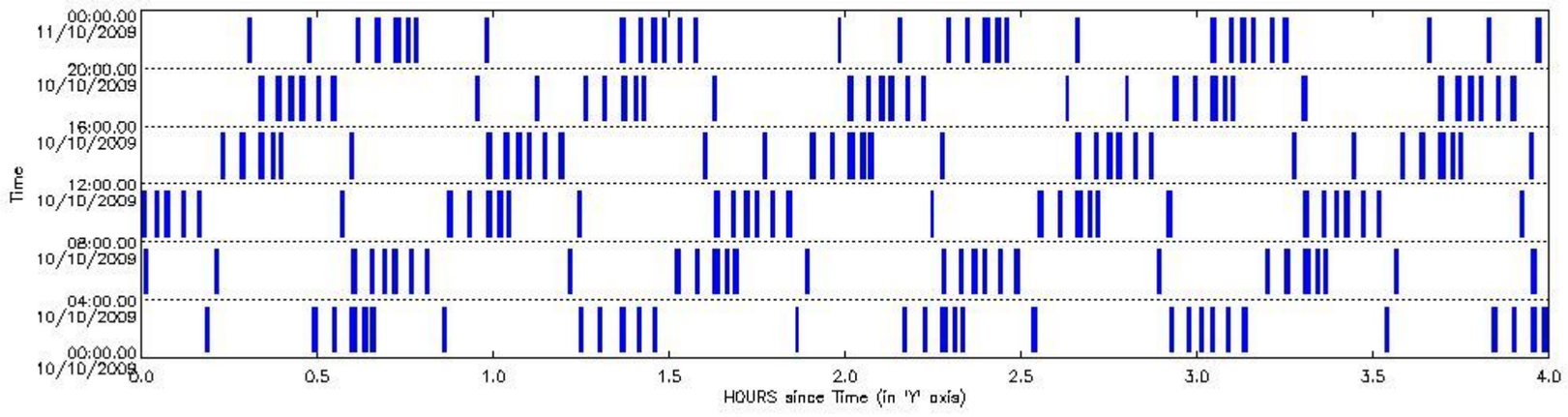
Item	Value
Time of report generation	13OCT2009 04:42:34
Data source version	GOMOS/5.00L03
Start time of products	10OCT2009 00:10:55
Stop time of products	10OCT2009 23:57:48
Store outputs in DB	Yes
Nb of level 1b prods	70
Nb of prods with errors	0

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)

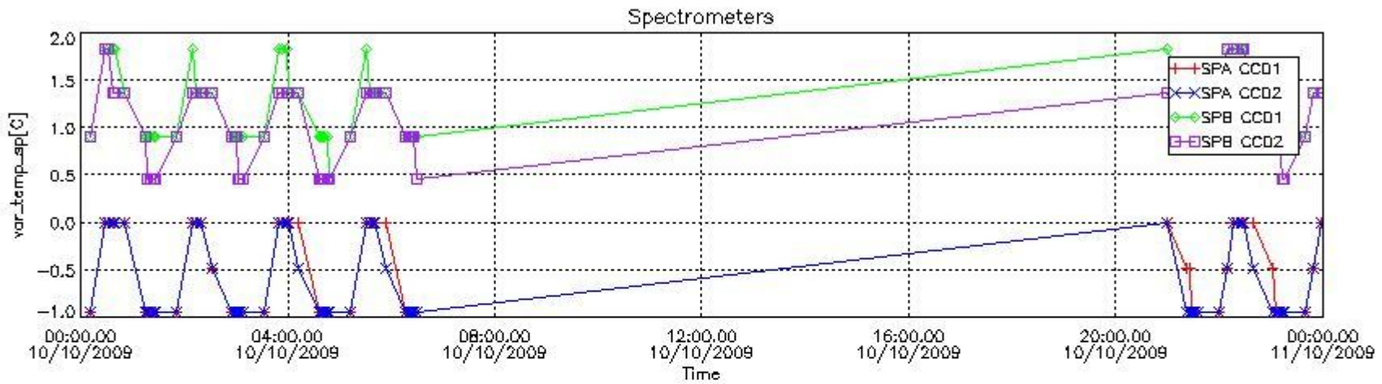
No missing products.

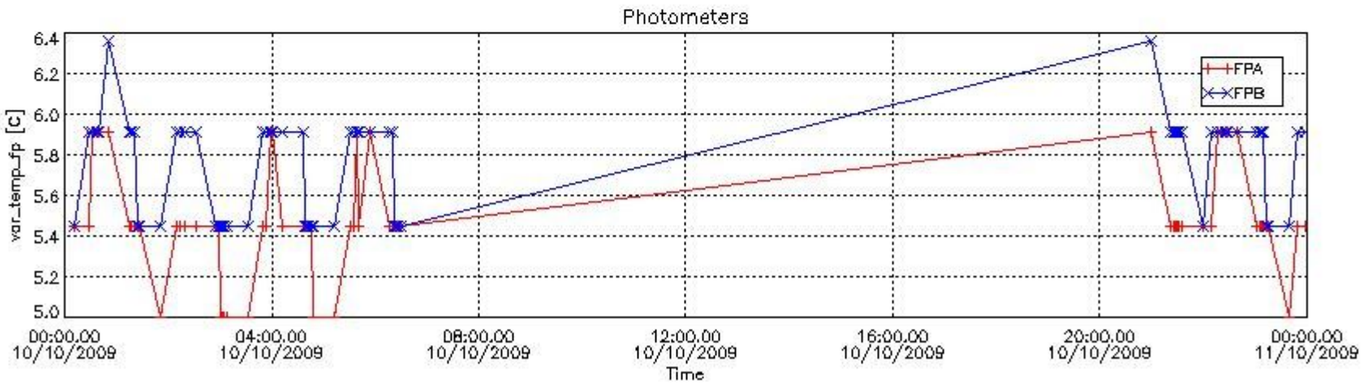
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091010_001055_000000272083_00159_39792_0236.N1	10-OCT-2009 00:10:55	Twi_and_stray	27.000	166	17Eps Leo	2.9800	6000.0	54	39792	No
2	GOM_TRA_1PNPDE20091010_002910_000000402083_00159_39792_0245.N1	10-OCT-2009 00:29:10	Dark	40.000	132	15Rho Pup	2.8030	6900.0	80	39792	No
3	GOM_TRA_1PNPDE20091010_003233_000000362083_00159_39792_0246.N1	10-OCT-2009 00:32:33	Dark	36.000	70	Zet Pup	2.2460	39000.	72	39792	No
4	GOM_TRA_1PNPDE20091010_003745_000000362083_00160_39793_0247.N1	10-OCT-2009 00:37:45	Dark	36.000	161	Tau Pup	2.9310	4500.0	72	39793	No
5	GOM_TRA_1PNPDE20091010_003908_000000372083_00160_39793_0248.N1	10-OCT-2009 00:39:08	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39793	No
6	GOM_TRA_1PNPDE20091010_005116_000000372083_00160_39793_0249.N1	10-OCT-2009 00:51:16	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39793	No
7	GOM_TRA_1PNPDE20091010_011440_000000382083_00160_39793_0250.N1	10-OCT-2009 01:14:40	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	39793	No
8	GOM_TRA_1PNPDE20091010_011743_000000372083_00160_39793_0251.N1	10-OCT-2009 01:17:43	Bright	36.500	53	43Bet And	2.0480	3300.0	73	39793	No
9	GOM_TRA_1PNPDE20091010_012140_000000422083_00160_39793_0252.N1	10-OCT-2009 01:21:40	Bright	41.500	73	57Gam1And	2.2600	13100.	83	39793	No
10	GOM_TRA_1PNPDE20091010_012425_000000332083_00160_39793_0253.N1	10-OCT-2009 01:24:25	Bright	32.500	76	27Gam Cas	2.3000	30000.	65	39793	No
11	GOM_TRA_1PNPDE20091010_012707_000000422083_00160_39793_0254.N1	10-OCT-2009 01:27:07	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39793	No
12	GOM_TRA_1PNPDE20091010_015131_000000272083_00160_39793_0255.N1	10-OCT-2009 01:51:31	Twi_and_stray	26.500	166	17Eps Leo	2.9800	6000.0	53	39793	No

13	GOM_TRA_1PNPDE20091010_020947_000000402083_00160_39793_0262.N1	10-OCT-2009 02:09:47	Dark	40.000	132	15Rho Pup	2.8030	6900.0	80	39793	No
14	GOM_TRA_1PNPDE20091010_021310_000000362083_00160_39793_0263.N1	10-OCT-2009 02:13:10	Dark	36.000	70	Zet Pup	2.2460	39000.	72	39793	No
15	GOM_TRA_1PNPDE20091010_021821_000000362083_00161_39794_0264.N1	10-OCT-2009 02:18:21	Dark	36.000	161	Tau Pup	2.9310	4500.0	72	39794	No
16	GOM_TRA_1PNPDE20091010_021944_000000372083_00161_39794_0265.N1	10-OCT-2009 02:19:44	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39794	No
17	GOM_TRA_1PNPDE20091010_023153_000000372083_00161_39794_0266.N1	10-OCT-2009 02:31:53	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39794	No
18	GOM_TRA_1PNPDE20091010_025515_000000442083_00161_39794_0267.N1	10-OCT-2009 02:55:15	Bright	44.000	105	6Bet Ari	2.6450	8900.0	88	39794	No
19	GOM_TRA_1PNPDE20091010_025819_000000372083_00161_39794_0268.N1	10-OCT-2009 02:58:19	Bright	36.500	53	43Bet And	2.0480	3300.0	73	39794	No
20	GOM_TRA_1PNPDE20091010_030032_000000302083_00161_39794_0269.N1	10-OCT-2009 03:00:32	Twi_and_stray	30.000	173	4Bet Tri	3.0040	8900.0	60	39794	No
21	GOM_TRA_1PNPDE20091010_030215_000000412083_00161_39794_0270.N1	10-OCT-2009 03:02:15	Bright	41.000	73	57Gam1And	2.2600	13100.	82	39794	No
22	GOM_TRA_1PNPDE20091010_030500_000000332083_00161_39794_0271.N1	10-OCT-2009 03:05:00	Bright	32.500	76	27Gam Cas	2.3000	30000.	65	39794	No
23	GOM_TRA_1PNPDE20091010_030742_000000422083_00161_39794_0272.N1	10-OCT-2009 03:07:42	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39794	No
24	GOM_TRA_1PNPDE20091010_033207_000000282083_00161_39794_0272.N1	10-OCT-2009 03:32:07	Twi_and_stray	27.500	166	17Eps Leo	2.9800	6000.0	55	39794	No
25	GOM_TRA_1PNPDE20091010_035024_000000412083_00161_39794_0273.N1	10-OCT-2009 03:50:24	Dark	40.500	132	15Rho Pup	2.8030	6900.0	81	39794	No
26	GOM_TRA_1PNPDE20091010_035347_000000362083_00161_39794_0274.N1	10-OCT-2009 03:53:47	Dark	36.000	70	Zet Pup	2.2460	39000.	72	39794	No
27	GOM_TRA_1PNPDE20091010_035858_000000372083_00162_39795_0275.N1	10-OCT-2009 03:58:58	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39795	No
28	GOM_TRA_1PNPDE20091010_040021_000000372083_00162_39795_0276.N1	10-OCT-2009 04:00:21	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39795	No
29	GOM_TRA_1PNPDE20091010_041230_000000372083_00162_39795_0277.N1	10-OCT-2009 04:12:30	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39795	No
30	GOM_TRA_1PNPDE20091010_043550_000000442083_00162_39795_0278.N1	10-OCT-2009 04:35:50	Bright	44.000	105	6Bet Ari	2.6450	8900.0	88	39795	No
31	GOM_TRA_1PNPDE20091010_043854_000000372083_00162_39795_0279.N1	10-OCT-2009 04:38:54	Bright	37.000	53	43Bet And	2.0480	3300.0	74	39795	No
32	GOM_TRA_1PNPDE20091010_044107_000000302083_00162_39795_0280.N1	10-OCT-2009 04:41:07	Twi_and_stray	30.000	173	4Bet Tri	3.0040	8900.0	60	39795	No
33	GOM_TRA_1PNPDE20091010_044250_000000422083_00162_39795_0281.N1	10-OCT-2009 04:42:50	Bright	41.500	73	57Gam1And	2.2600	13100.	83	39795	No
34	GOM_TRA_1PNPDE20091010_044536_000000332083_00162_39795_0282.N1	10-OCT-2009 04:45:36	Bright	32.500	76	27Gam Cas	2.3000	30000.	65	39795	No
35	GOM_TRA_1PNPDE20091010_044817_000000412083_00162_39795_0283.N1	10-OCT-2009 04:48:17	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	39795	No
36	GOM_TRA_1PNPDE20091010_051244_000000282083_00162_39795_0282.N1	10-OCT-2009 05:12:44	Twi_and_stray	27.500	166	17Eps Leo	2.9800	6000.0	55	39795	No
37	GOM_TRA_1PNPDE20091010_053101_000000412083_00162_39795_0283.N1	10-OCT-2009 05:31:01	Dark	40.500	132	15Rho Pup	2.8030	6900.0	81	39795	No
38	GOM_TRA_1PNPDE20091010_053424_000000362083_00162_39795_0284.N1	10-OCT-2009 05:34:24	Dark	36.000	70	Zet Pup	2.2460	39000.	72	39795	No
39	GOM_TRA_1PNPDE20091010_053935_000000372083_00163_39796_0285.N1	10-OCT-2009 05:39:35	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39796	No
40	GOM_TRA_1PNPDE20091010_054058_000000372083_00163_39796_0286.N1	10-OCT-2009 05:40:58	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39796	No
41	GOM_TRA_1PNPDE20091010_055307_000000372083_00163_39796_0287.N1	10-OCT-2009 05:53:07	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39796	No
42	GOM_TRA_1PNPDE20091010_061626_000000452083_00163_39796_0288.N1	10-OCT-2009 06:16:26	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	39796	No
43	GOM_TRA_1PNPDE20091010_061930_000000372083_00163_39796_0289.N1	10-OCT-2009 06:19:30	Bright	37.000	53	43Bet And	2.0480	3300.0	74	39796	No
44	GOM_TRA_1PNPDE20091010_062142_000000352083_00163_39796_0290.N1	10-OCT-2009 06:21:42	Twi_and_stray	35.000	173	4Bet Tri	3.0040	8900.0	70	39796	No
45	GOM_TRA_1PNPDE20091010_062325_000000422083_00163_39796_0291.N1	10-OCT-2009 06:23:25	Bright	41.500	73	57Gam1And	2.2600	13100.	83	39796	No
46	GOM_TRA_1PNPDE20091010_062612_000000332083_00163_39796_0292.N1	10-OCT-2009 06:26:12	Bright	32.500	76	27Gam Cas	2.3000	30000.	65	39796	No
47	GOM_TRA_1PNPDE20091010_062853_000000412083_00163_39796_0293.N1	10-OCT-2009 06:28:53	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	39796	No
48	GOM_TRA_1PNPDE20091010_205835_000000372083_00172_39805_0330.N1	10-OCT-2009 20:58:35	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39805	No
49	GOM_TRA_1PNPDE20091010_212142_000000452083_00172_39805_0331.N1	10-OCT-2009 21:21:42	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	39805	No
50	GOM_TRA_1PNPDE20091010_212449_000000372083_00172_39805_0332.N1	10-OCT-2009 21:24:49	Bright	37.000	53	43Bet And	2.0480	3300.0	74	39805	No
51	GOM_TRA_1PNPDE20091010_212657_000000452083_00172_39805_0333.N1	10-OCT-2009 21:26:57	Bright	44.500	173	4Bet Tri	3.0040	8900.0	89	39805	No
52	GOM_TRA_1PNPDE20091010_212842_000000412083_00172_39805_0334.N1	10-OCT-2009 21:28:42	Bright	41.000	73	57Gam1And	2.2600	13100.	82	39805	No
53	GOM_TRA_1PNPDE20091010_213136_000000302083_00172_39805_0335.N1	10-OCT-2009 21:31:36	Bright	30.000	76	27Gam Cas	2.3000	30000.	60	39805	No
54	GOM_TRA_1PNPDE20091010_213408_000000422083_00172_39805_0336.N1	10-OCT-2009 21:34:08	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39805	No
55	GOM_TRA_1PNPDE20091010_215845_000000282083_00172_39805_0337.N1	10-OCT-2009 21:58:45	Twi_and_stray	27.500	166	17Eps Leo	2.9800	6000.0	55	39805	No
56	GOM_TRA_1PNPDE20091010_220857_000000312083_00172_39805_0337.N1	10-OCT-2009 22:08:57	Twilight	31.000	48	30Alp Hya	1.9770	4100.0	62	39805	No
57	GOM_TRA_1PNPDE20091010_221712_000000412083_00172_39805_0338.N1	10-OCT-2009 22:17:12	Dark	40.500	132	15Rho Pup	2.8030	6900.0	81	39805	No
58	GOM_TRA_1PNPDE20091010_222032_000000362083_00172_39805_0339.N1	10-OCT-2009 22:20:32	Dark	36.000	70	Zet Pup	2.2460	39000.	72	39805	No
59	GOM_TRA_1PNPDE20091010_222543_000000372083_00173_39806_0340.N1	10-OCT-2009 22:25:43	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39806	No
60	GOM_TRA_1PNPDE20091010_222706_000000372083_00173_39806_0341.N1	10-OCT-2009 22:27:06	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39806	No
61	GOM_TRA_1PNPDE20091010_223911_000000372083_00173_39806_0342.N1	10-OCT-2009 22:39:11	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	39806	No
62	GOM_TRA_1PNPDE20091010_230218_000000442083_00173_39806_0343.N1	10-OCT-2009 23:02:18	Bright	43.500	105	6Bet Ari	2.6450	8900.0	87	39806	No
63	GOM_TRA_1PNPDE20091010_230525_000000362083_00173_39806_0344.N1	10-OCT-2009 23:05:25	Bright	36.000	53	43Bet And	2.0480	3300.0	72	39806	No
64	GOM_TRA_1PNPDE20091010_230732_000000442083_00173_39806_0345.N1	10-OCT-2009 23:07:32	Bright	44.000	173	4Bet Tri	3.0040	8900.0	88	39806	No
65	GOM_TRA_1PNPDE20091010_230917_000000412083_00173_39806_0346.N1	10-OCT-2009 23:09:17	Bright	41.000	73	57Gam1And	2.2600	13100.	82	39806	No
66	GOM_TRA_1PNPDE20091010_231235_000000342083_00173_39806_0347.N1	10-OCT-2009 23:12:35	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39806	No
67	GOM_TRA_1PNPDE20091010_231443_000000412083_00173_39806_0348.N1	10-OCT-2009 23:14:43	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	39806	No
68	GOM_TRA_1PNPDE20091010_233922_000000282083_00173_39806_0349.N1	10-OCT-2009 23:39:22	Twi_and_stray	27.500	166	17Eps Leo	2.9800	6000.0	55	39806	No
69	GOM_TRA_1PNPDE20091010_234934_000000312083_00173_39806_0345.N1	10-OCT-2009 23:49:34	Twilight	31.000	48	30Alp Hya	1.9770	4100.0	62	39806	No
70	GOM_TRA_1PNPDE20091010_235748_000000412083_00173_39806_0346.N1	10-OCT-2009 23:57:48	Dark	41.000	132	15Rho Pup	2.8030	6900.0	82	39806	No

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





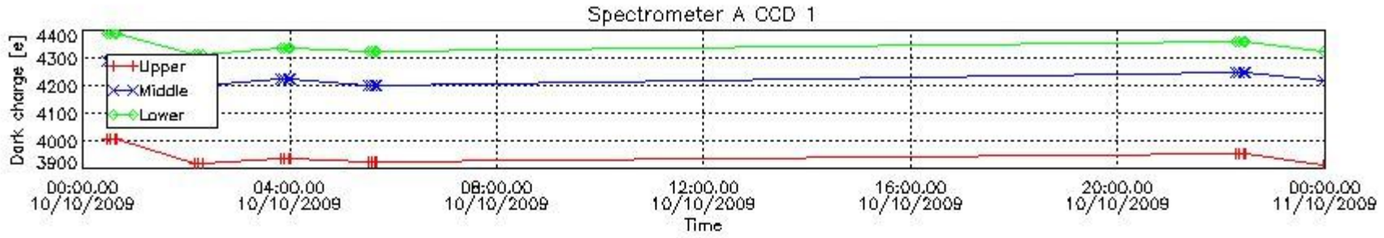
4. Overview of dark signal processing per product

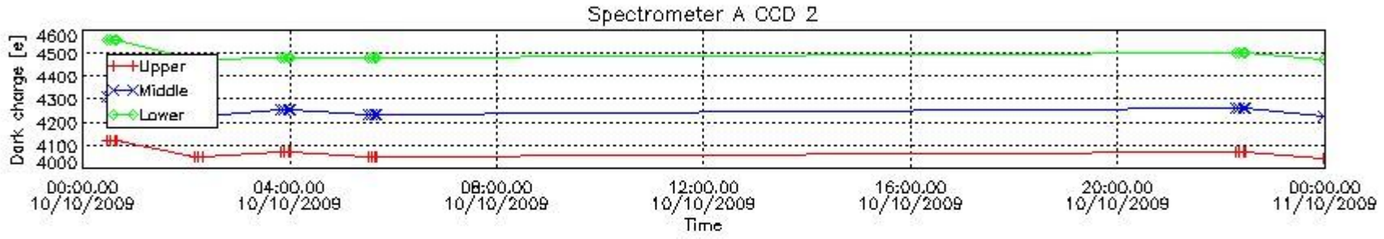
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

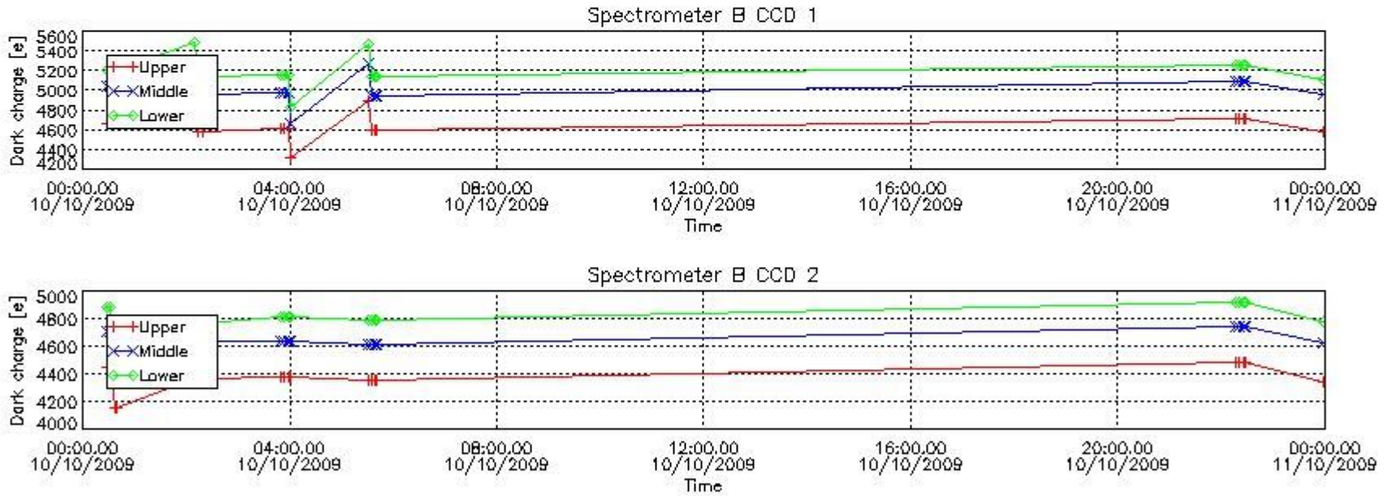
4.1 These products did not use the DSA observation for DC computation:

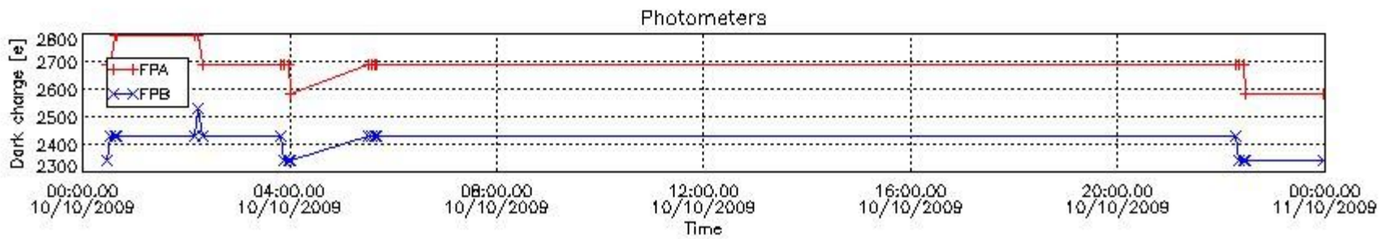
Product name	DC information
GOM_TRA_1PNPDE20091010_205835_000000372083_00172_39805_0330.N1	DC map used
GOM_TRA_1PNPDE20091010_212142_000000452083_00172_39805_0331.N1	DC map used
GOM_TRA_1PNPDE20091010_212449_000000372083_00172_39805_0332.N1	DC map used
GOM_TRA_1PNPDE20091010_212657_000000452083_00172_39805_0333.N1	DC map used
GOM_TRA_1PNPDE20091010_212842_000000412083_00172_39805_0334.N1	DC map used
GOM_TRA_1PNPDE20091010_213136_000000302083_00172_39805_0335.N1	DC map used
GOM_TRA_1PNPDE20091010_213408_000000422083_00172_39805_0336.N1	DC map used
GOM_TRA_1PNPDE20091010_215845_000000282083_00172_39805_0337.N1	DC map used

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









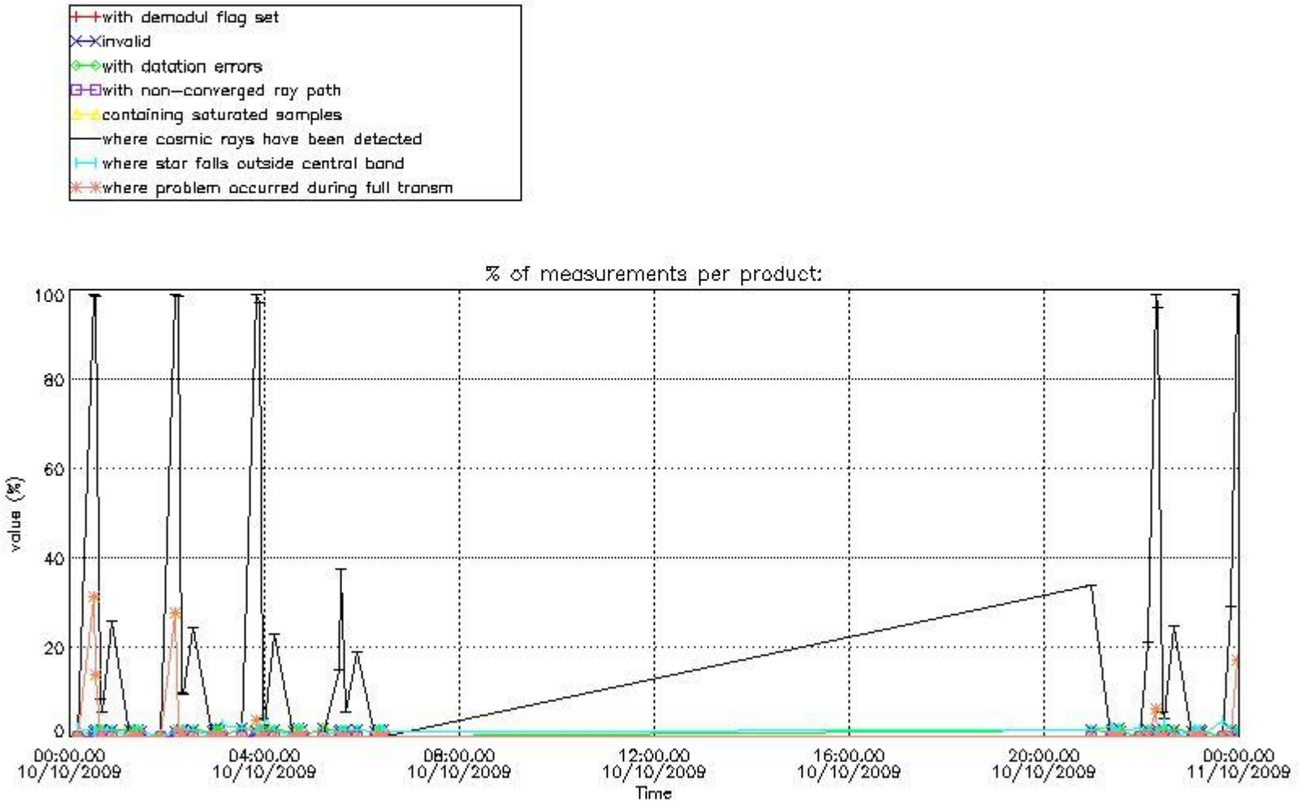
5. Demodulation flag and quality information monitoring

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:

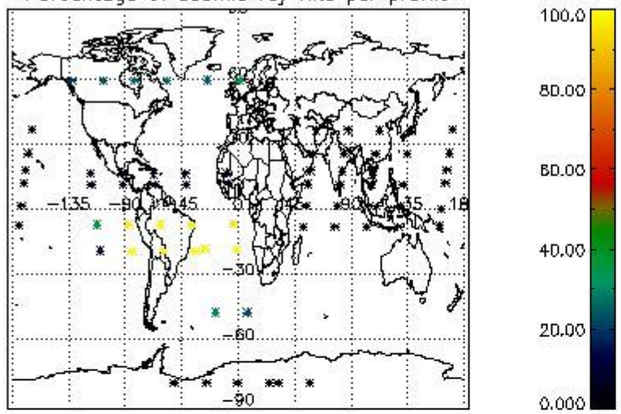
At least one measurement with demodulation flag set:	28.5714 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

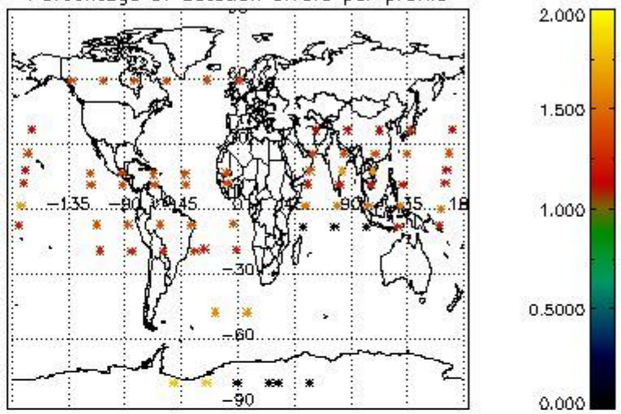


5.3 Plot quality information per product (world map)

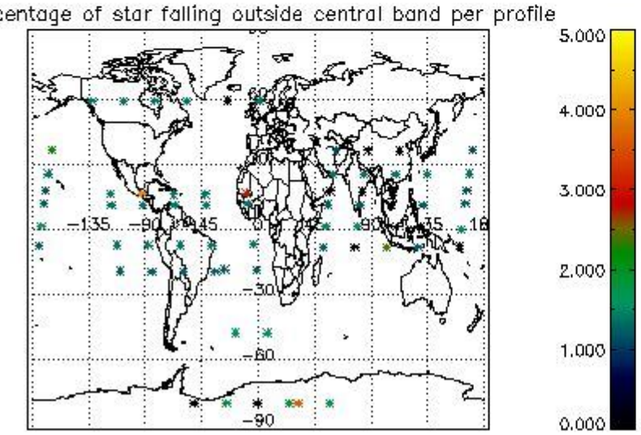
Percentage of cosmic ray hits per profile



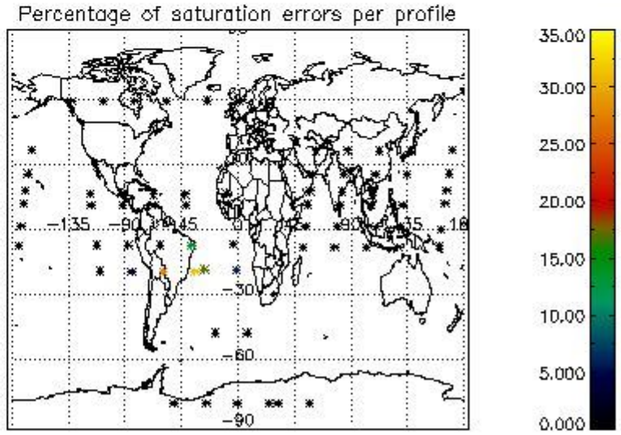
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



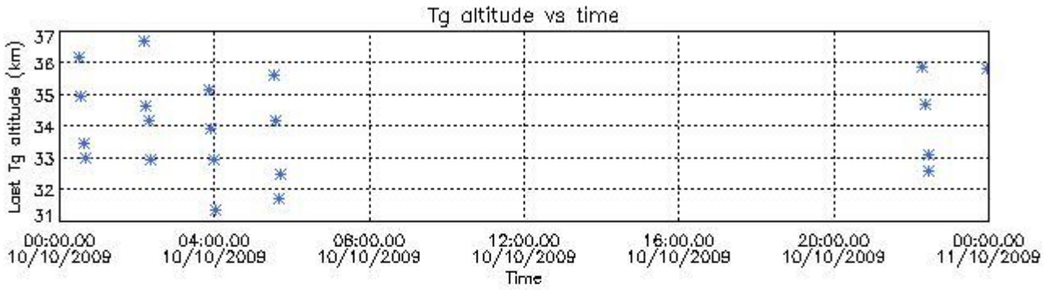
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

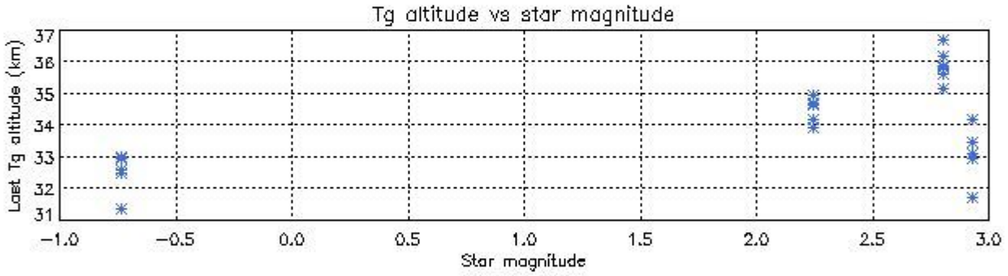
6.1 Statistics on tangent altitude lost:

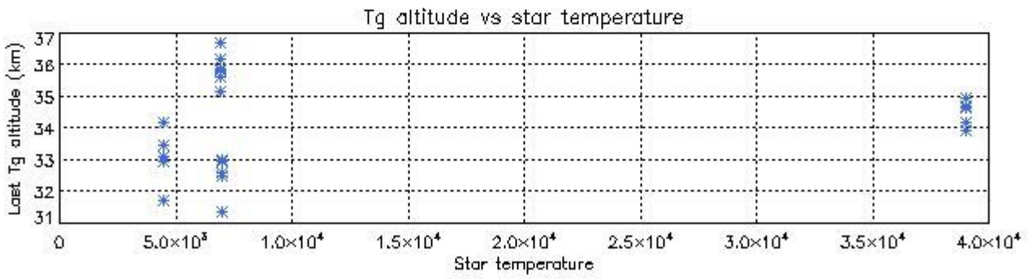
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	34.073	34.998	44.324
St. deviation:	1.4971	2.9756	0.041963
Maximum:	36.696	48.199	44.354
Minimum:	31.379	31.506	44.295
Number of data:	21.000	32.000	2.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

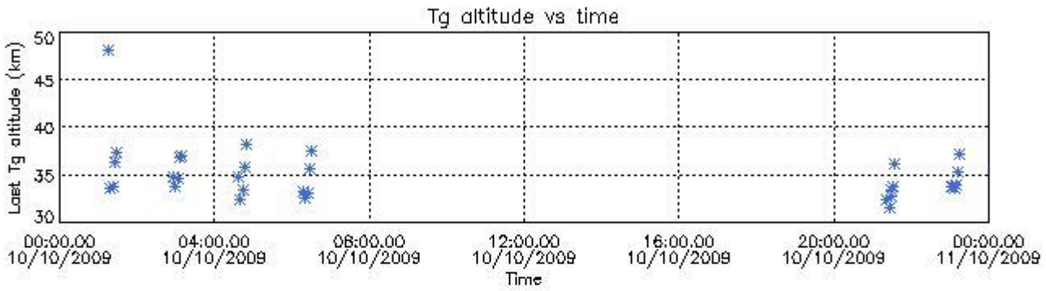


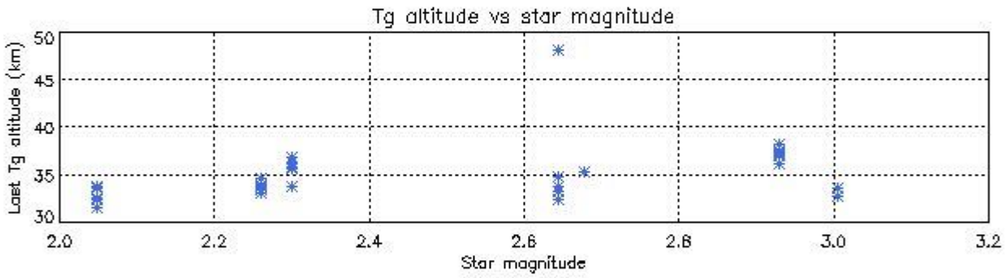


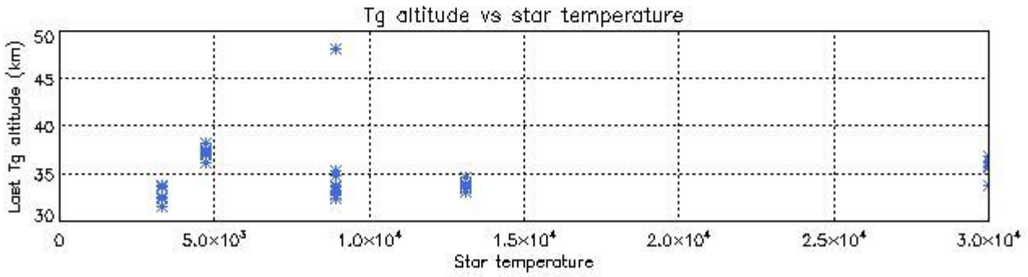


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

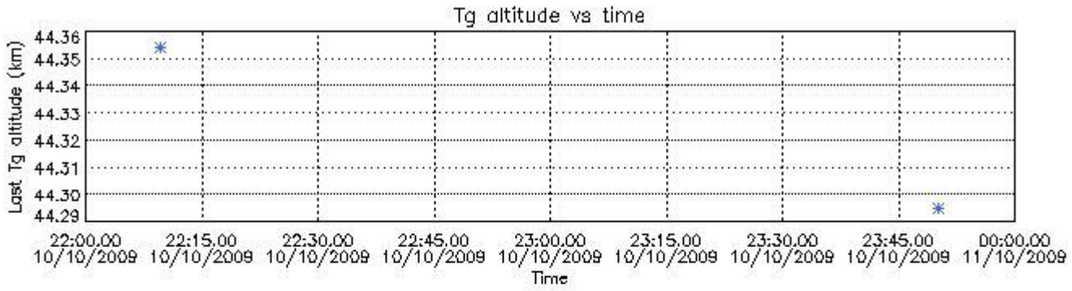


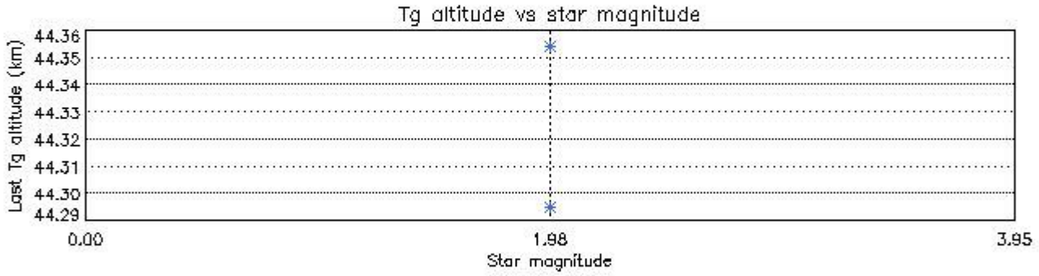


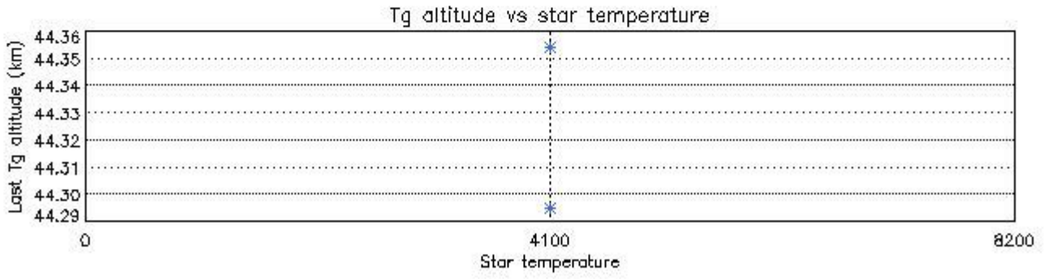


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost





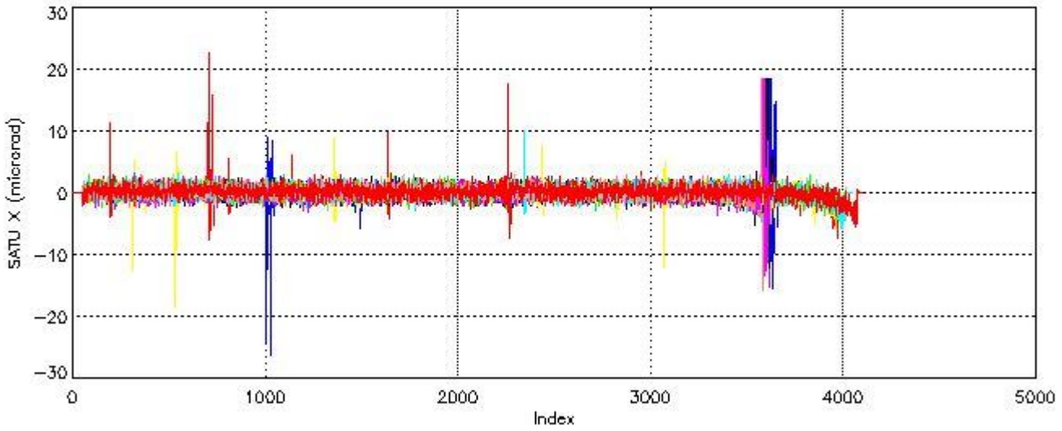


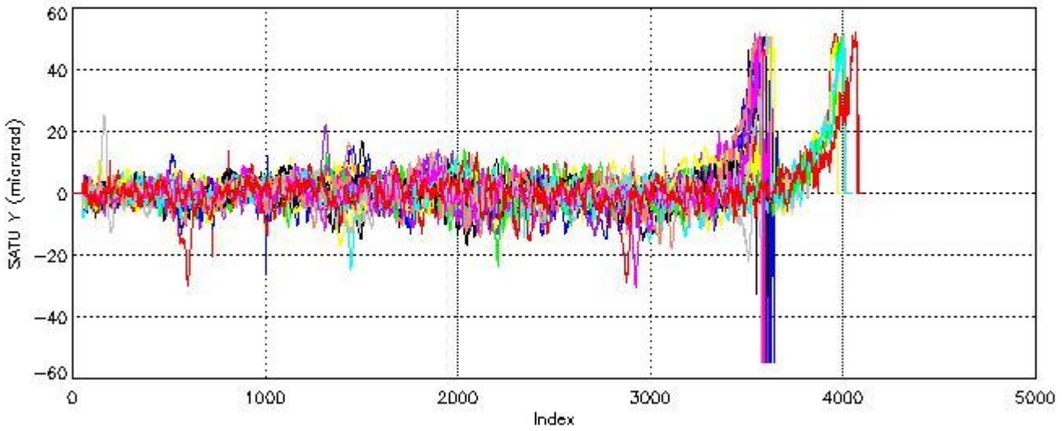
7. Star Acquisition and Tracking Unit (SATU)

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 functin 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 frecuency 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:	0.20499	-0.11439	0.30199	-0.21583
St. deviation:	0.65325	3.0466	0.80438	3.2075
Maximum:	22.600	25.300	5.3000	12.100
Minimum:	-26.400	-30.200	-5.2000	-16.800

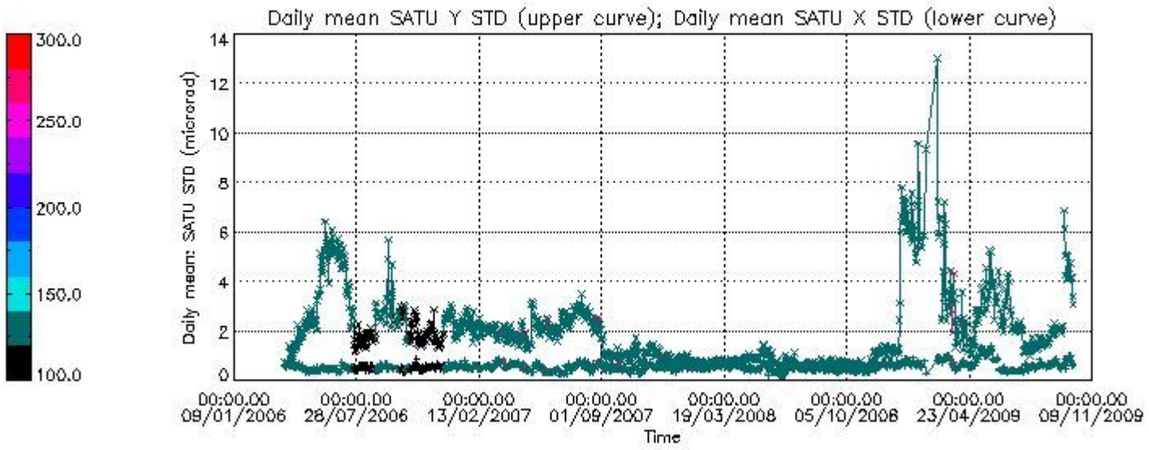
Number of data:	22700.	22700.	36000.	36000.

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.

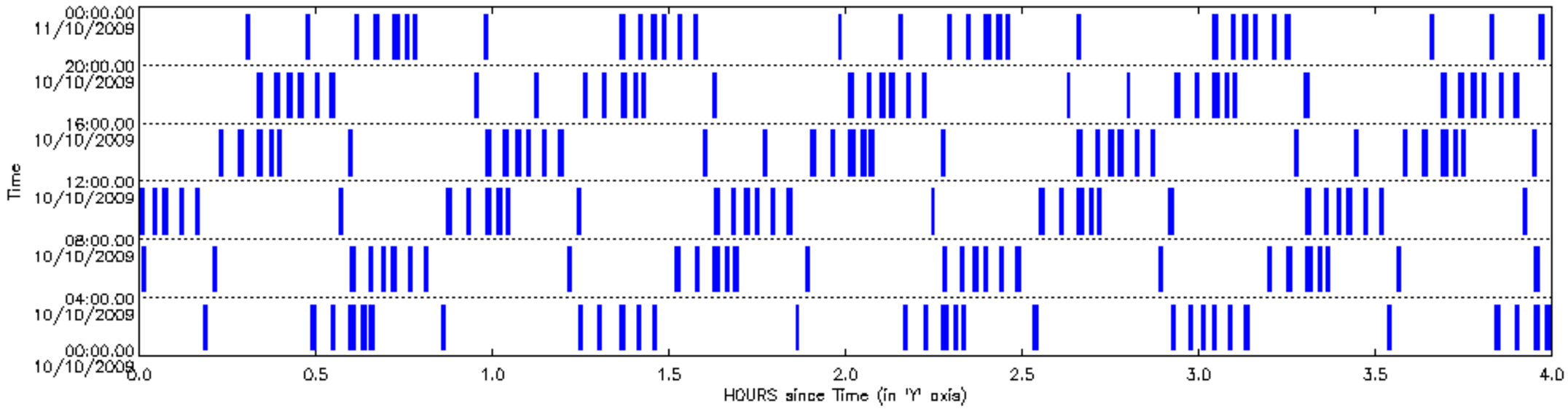
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

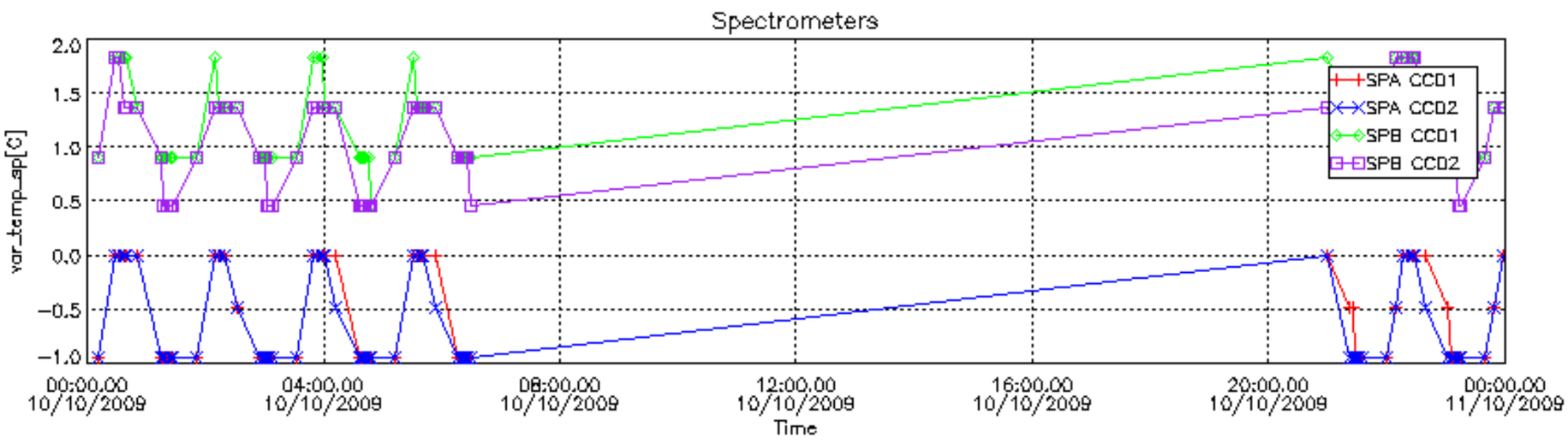


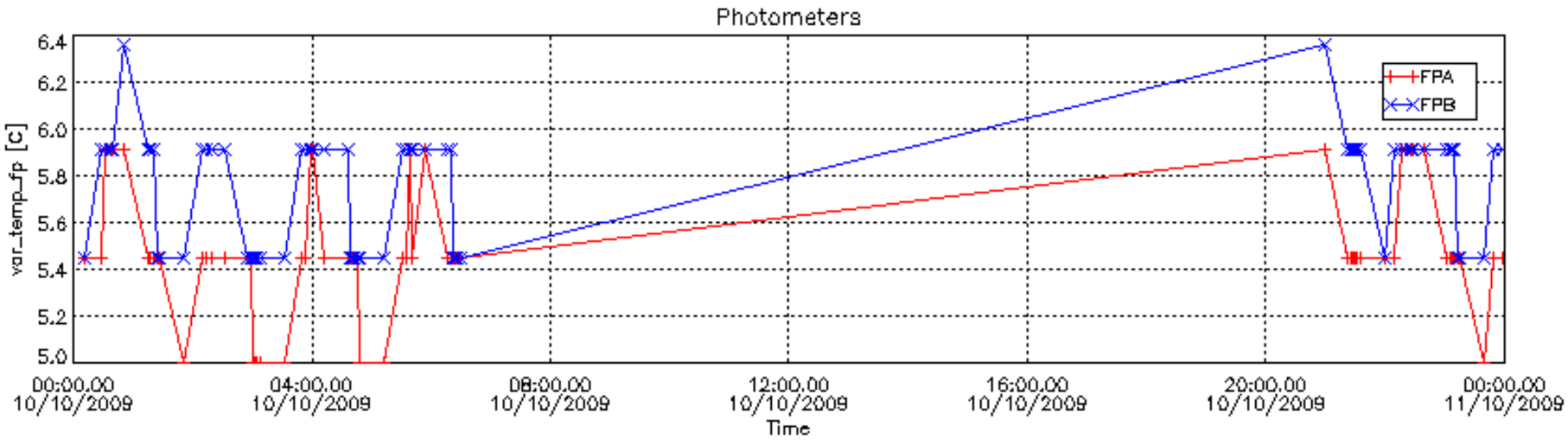
8. Auxiliary Data Files used for the production reported in section 2.4

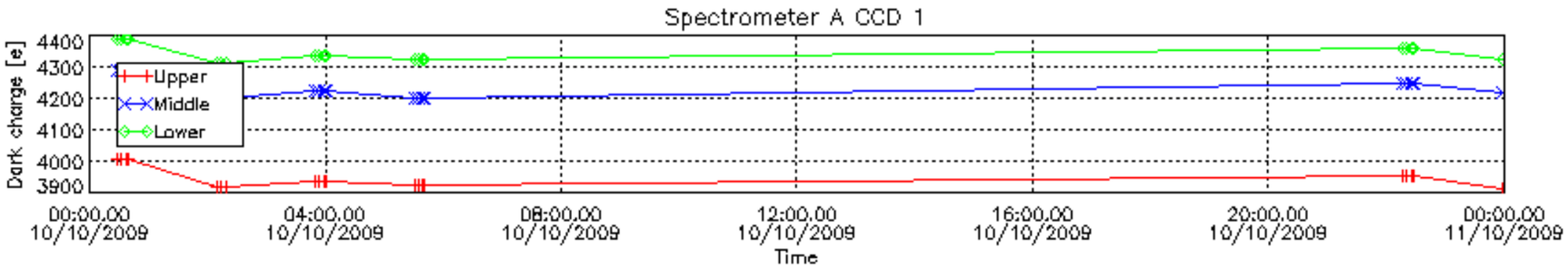
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

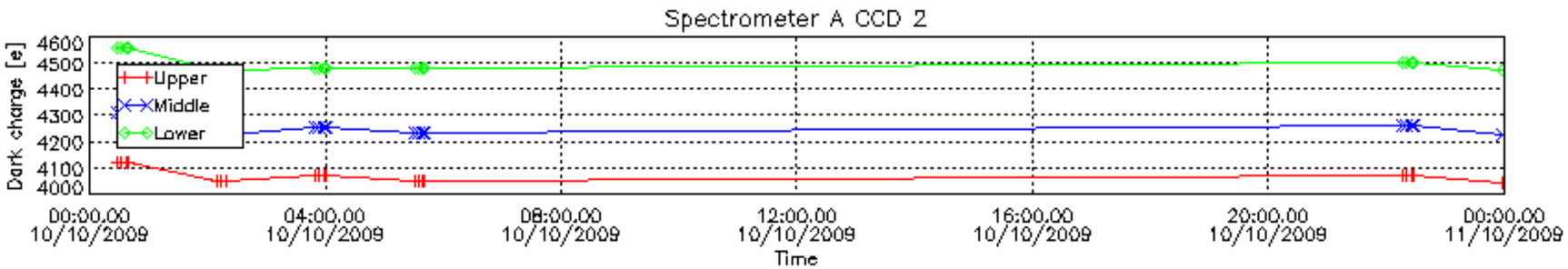
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	10-OCT-2009 00:10:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091007_100119_20091005_000000_20100101_000000	1	10-OCT-2009 00:10:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	10-OCT-2009 00:10:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-OCT-2009 00:10:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	10-OCT-2009 00:10:55
ECMWF_FILE	AUX_ECF_AXNECM20091009_062112_20091009_210000_20091010_090000	1	10-OCT-2009 00:10:55
ECMWF_FILE	AUX_ECF_AXNECM20091009_182112_20091010_030000_20091010_150000	24	10-OCT-2009 03:32:07
ECMWF_FILE	AUX_ECA_AXNECM20091010_062111_20091009_210000_20091010_090000	36	10-OCT-2009 05:12:44
ECMWF_FILE	AUX_ECF_AXNECM20091010_064111_20091010_150000_20091011_030000	48	10-OCT-2009 20:58:35
ECMWF_FILE	AUX_ECF_AXNECM20091010_064112_20091010_210000_20091011_090000	56	10-OCT-2009 22:08:57
OPTIONAL_ECMWF_FILE	MISSING	1	10-OCT-2009 00:10:55
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091009_010111_20091008_182350_20091018_213040	1	10-OCT-2009 00:10:55
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20091010_001815_000054192083_00159_39792_8935.N1	2	10-OCT-2009 00:29:10
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091010_010111_20091009_193249_20091019_205903	13	10-OCT-2009 02:09:47
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20091010_031335_000057382083_00161_39794_8937.N1	24	10-OCT-2009 03:32:07
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20091010_045432_000057382083_00162_39795_8938.N1	36	10-OCT-2009 05:12:44
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20091010_205613_000038252083_00172_39805_8939.N1	48	10-OCT-2009 20:58:35
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20091010_220518_000057382083_00172_39805_8940.N1	56	10-OCT-2009 22:08:57
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20091010_234615_000057382083_00173_39806_8941.N1	69	10-OCT-2009 23:49:34

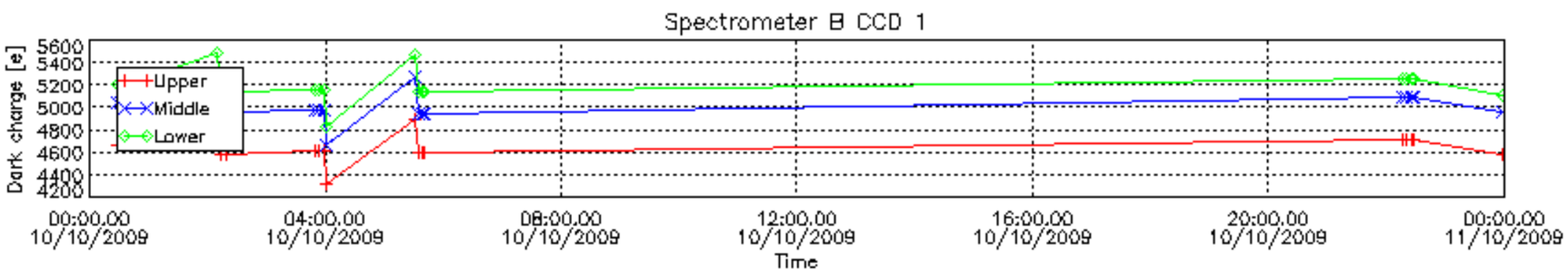

00:00.00
11/10/2009
20:00.00
10/10/2009
16:00.00
10/10/2009
12:00.00
10/10/2009
08:00.00
10/10/2009
04:00.00
10/10/2009
00:00.00
10/10/2009
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

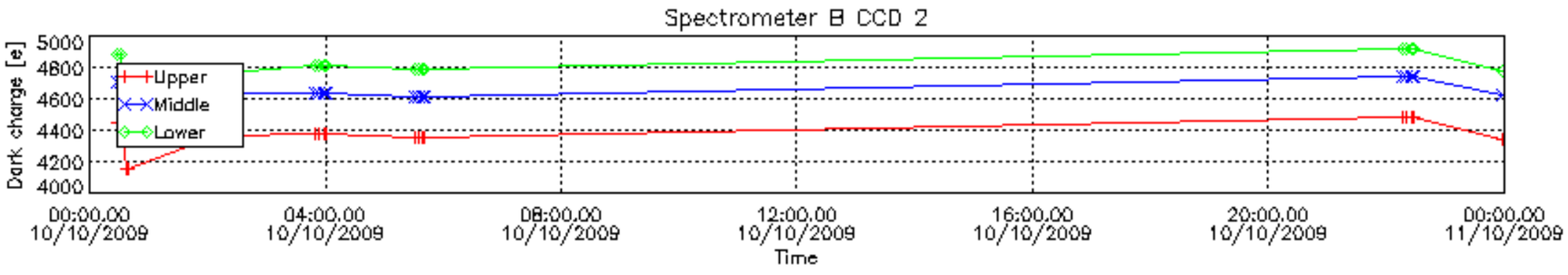

Spectrometers
var_temp_sp[C]
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
10/10/2009
04:00.00
10/10/2009
08:00.00
10/10/2009
12:00.00
10/10/2009
16:00.00
10/10/2009
20:00.00
10/10/2009
00:00.00
11/10/2009
Time

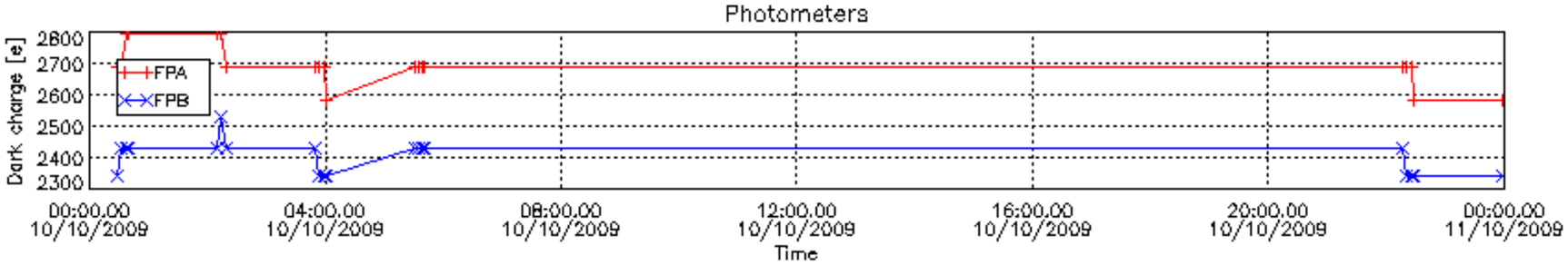

Photometers
var_temp_fp [C]
6.4
6.2
6.0
5.8
5.6
5.4
5.2
5.0
FPA
FPB
00:00.00
10/10/2009
04:00.00
10/10/2009
08:00.00
10/10/2009
12:00.00
10/10/2009
16:00.00
10/10/2009
20:00.00
10/10/2009
00:00.00
11/10/2009
Time

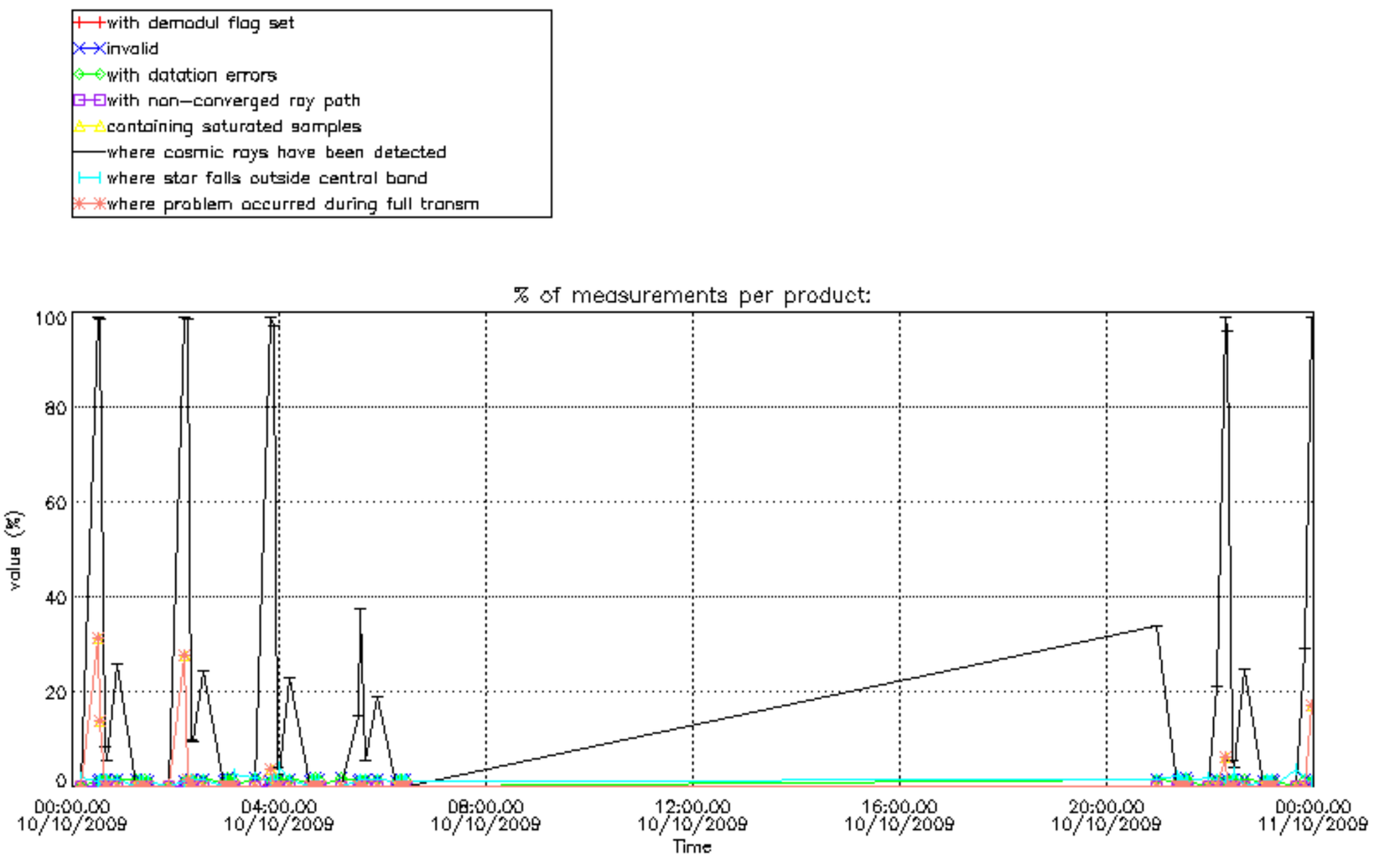

Spectrometer A CCD 1
Dark charge [e]
4400
4300
4200
4100
4000
3900
Upper
Middle
Lower
00:00.00 10/10/2009
04:00.00 10/10/2009
08:00.00 10/10/2009
12:00.00 10/10/2009
16:00.00 10/10/2009
20:00.00 10/10/2009
00:00.00 11/10/2009
Time

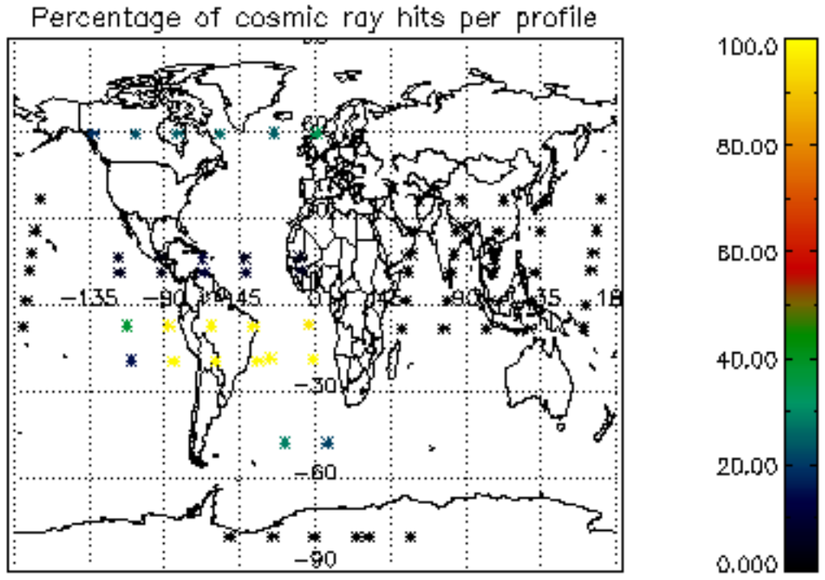

Spectrometer A CCD 2
Dark charge [e]
4600
4500
4400
4300
4200
4100
4000
Upper
Middle
Lower
00:00.00 10/10/2009
04:00.00 10/10/2009
08:00.00 10/10/2009
12:00.00 10/10/2009
16:00.00 10/10/2009
20:00.00 10/10/2009
00:00.00 11/10/2009
Time

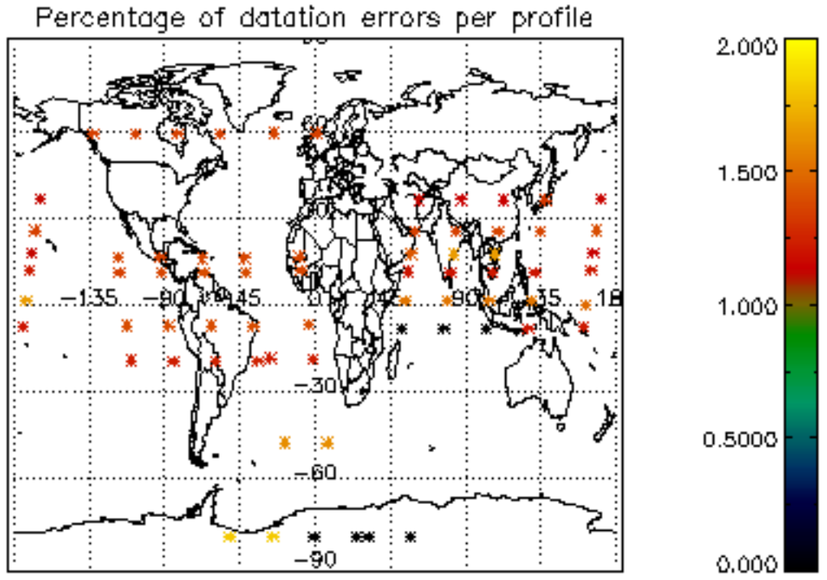

Spectrometer B CCD 1
Dark charge [e]
5600
5400
5200
5000
4800
4600
4400
4200
Upper
Middle
Lower
00:00.00 10/10/2009
04:00.00 10/10/2009
08:00.00 10/10/2009
12:00.00 10/10/2009
16:00.00 10/10/2009
20:00.00 10/10/2009
00:00.00 11/10/2009
Time

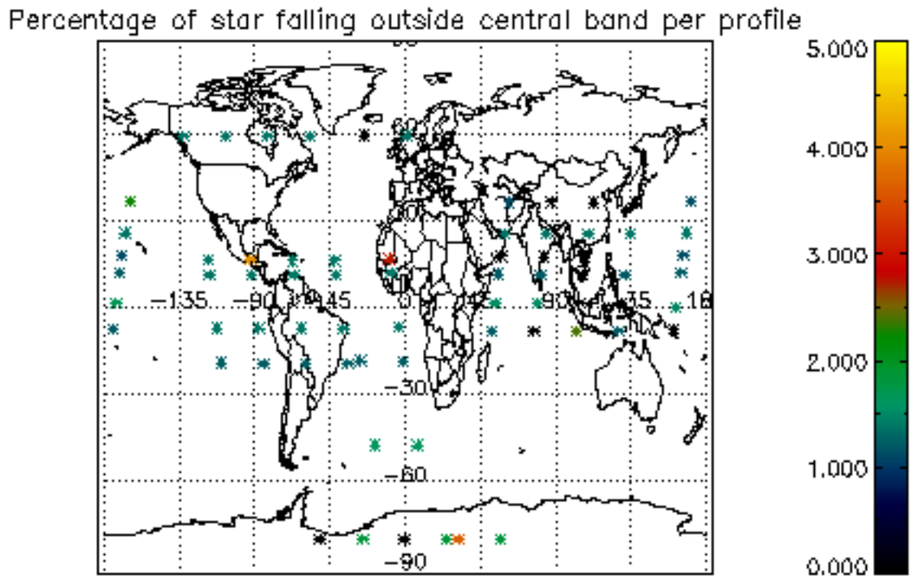

Spectrometer B CCD 2
Dark charge [e]
5000
4800
4600
4400
4200
4000
Upper
Middle
Lower
00:00.00 10/10/2009
04:00.00 10/10/2009
08:00.00 10/10/2009
12:00.00 10/10/2009
16:00.00 10/10/2009
20:00.00 10/10/2009
00:00.00 11/10/2009
Time

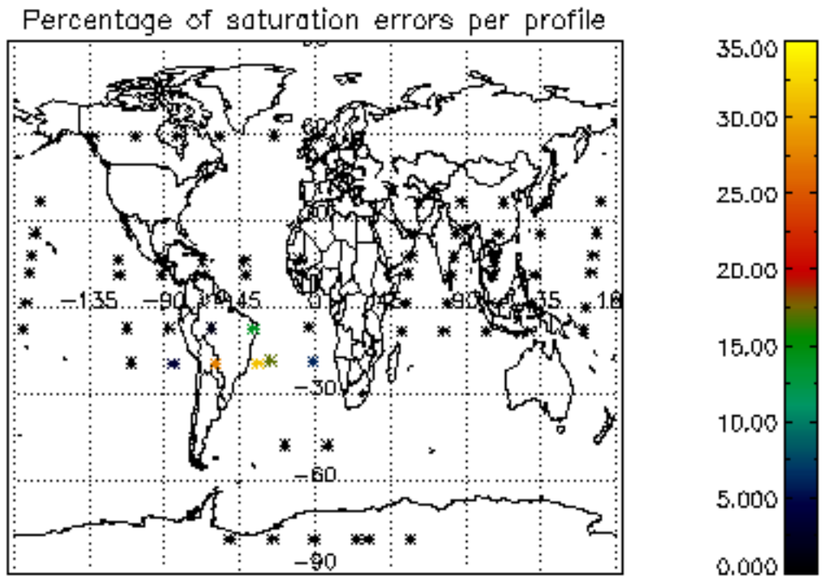

Photometers
Dark charge [e]
2800
2700
2600
2500
2400
2300
FPA
FPB
00:00.00 10/10/2009
04:00.00 10/10/2009
08:00.00 10/10/2009
12:00.00 10/10/2009
16:00.00 10/10/2009
20:00.00 10/10/2009
00:00.00 11/10/2009
Time


with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
value (%)
100
80
60
40
20
0
00:00.00 10/10/2009
04:00.00 10/10/2009
08:00.00 10/10/2009
12:00.00 10/10/2009
16:00.00 10/10/2009
20:00.00 10/10/2009
00:00.00 11/10/2009
Time

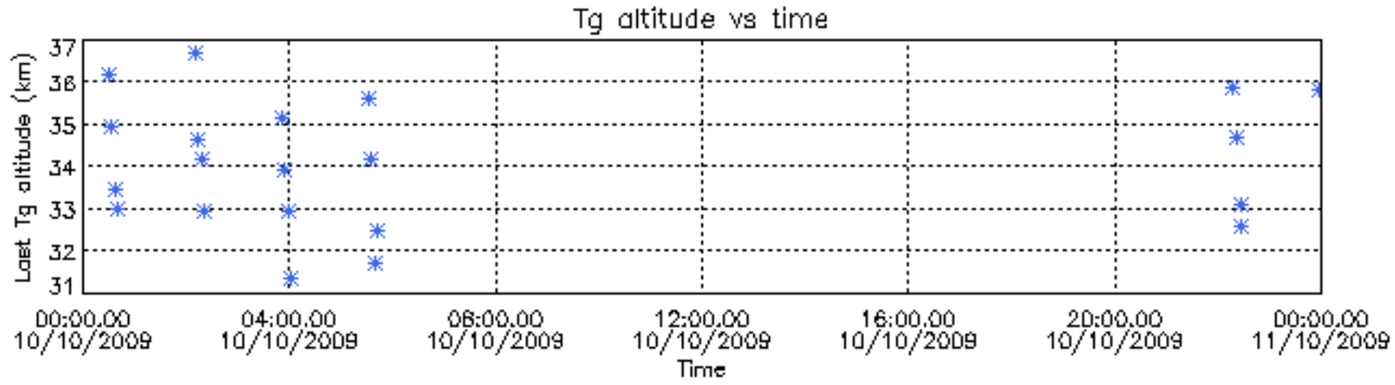

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

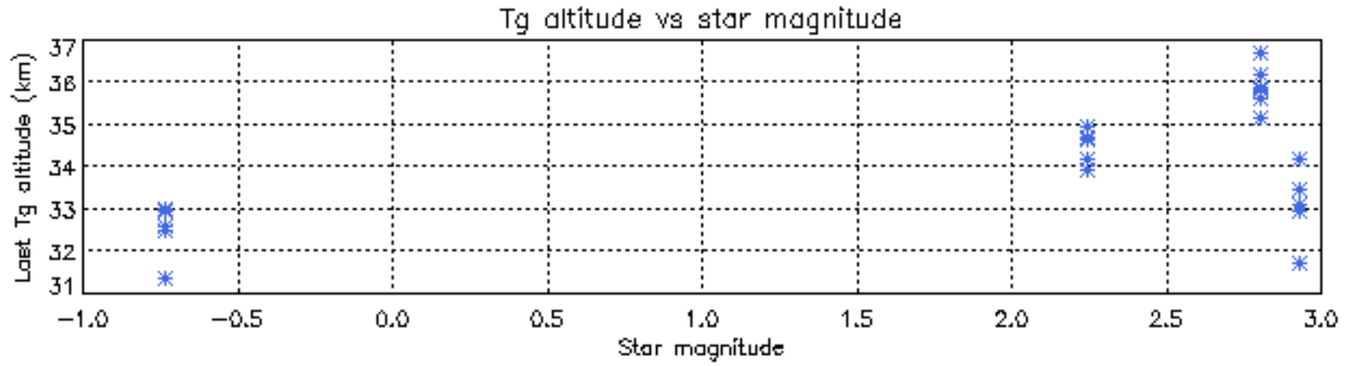

Percentage of datation errors per profile
2.000
1.500
1.000
0.5000
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

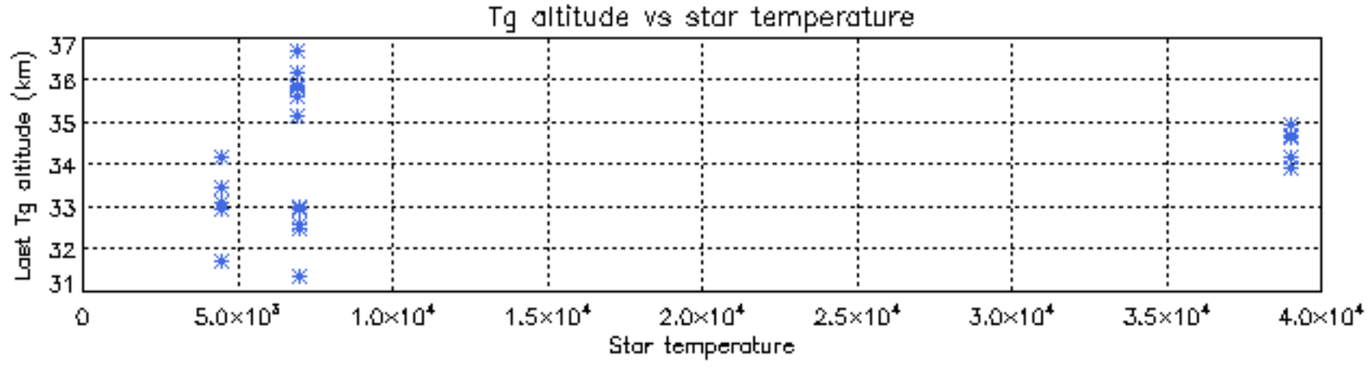

Percentage of star falling outside central band per profile
5.000
4.000
3.000
2.000
1.000
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90


Percentage of saturation errors per profile
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

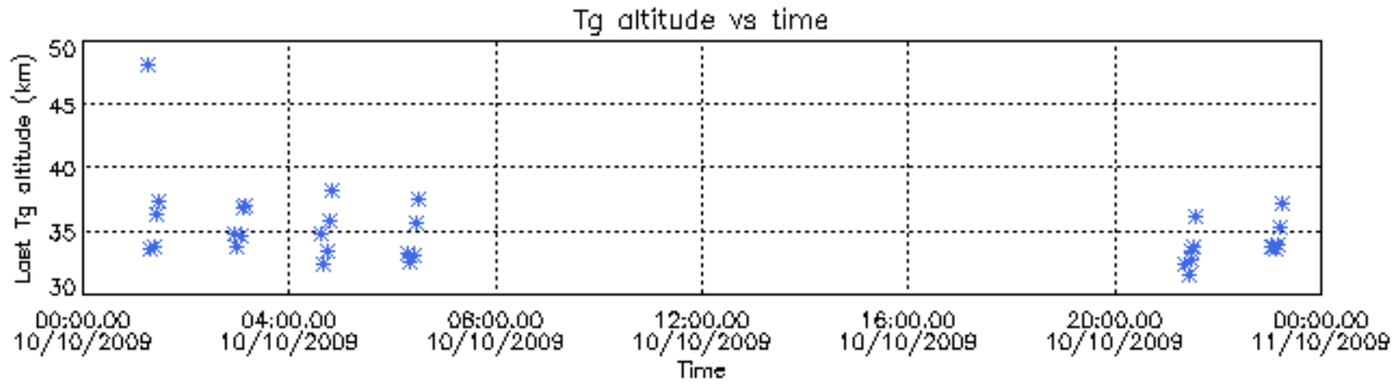
Tangent altitude at which the star is lost

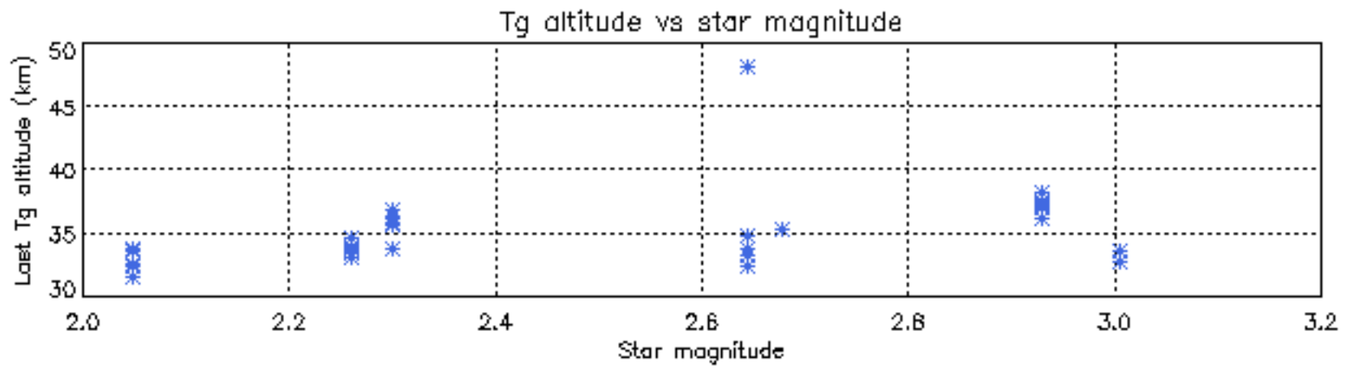


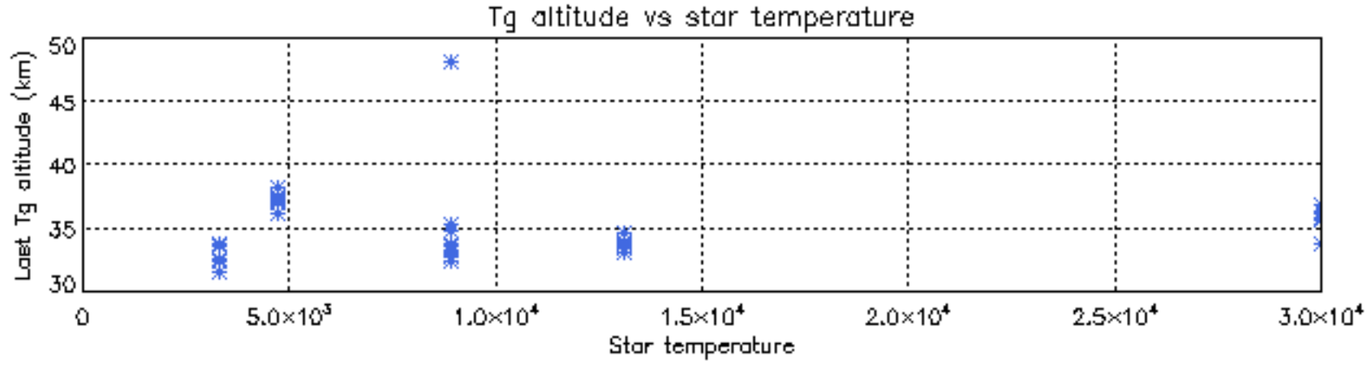




Tangent altitude at which the star is lost







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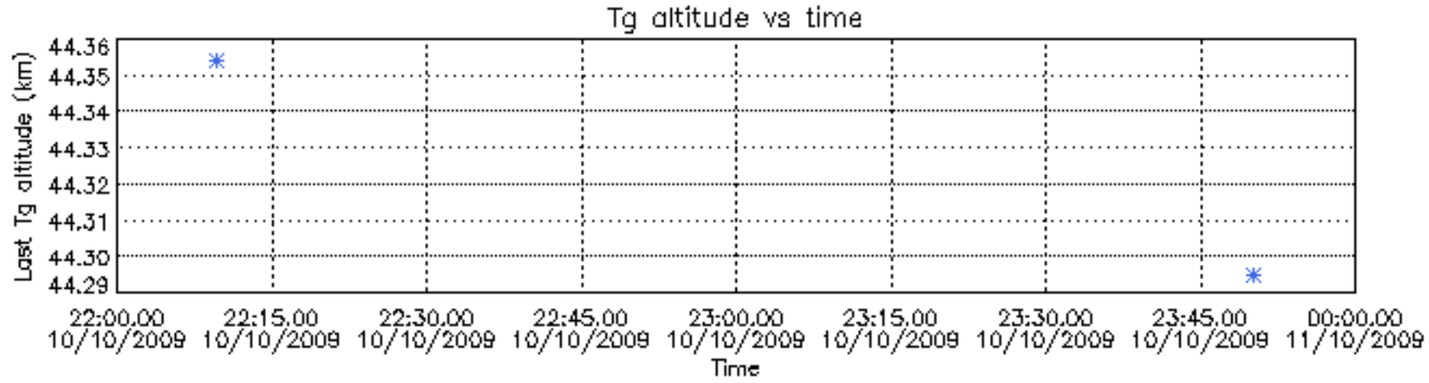

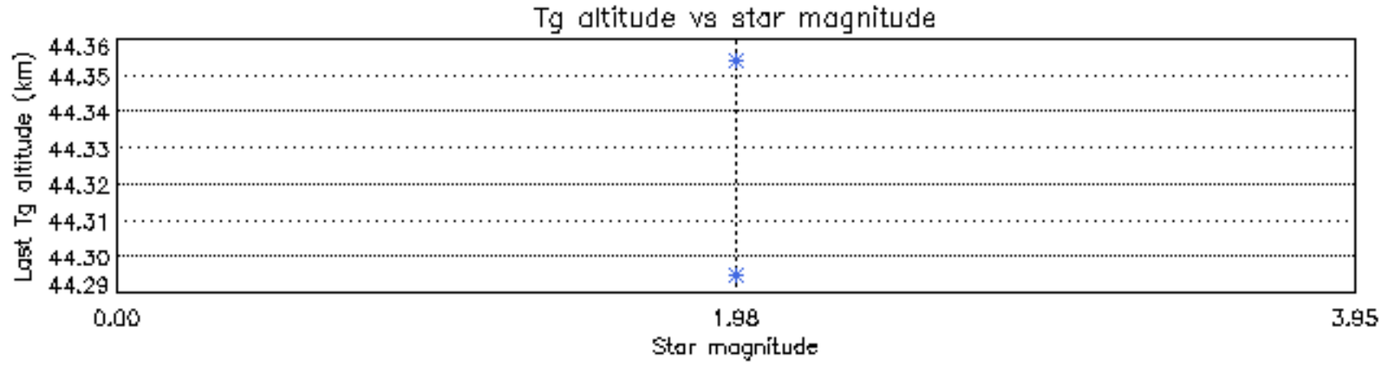

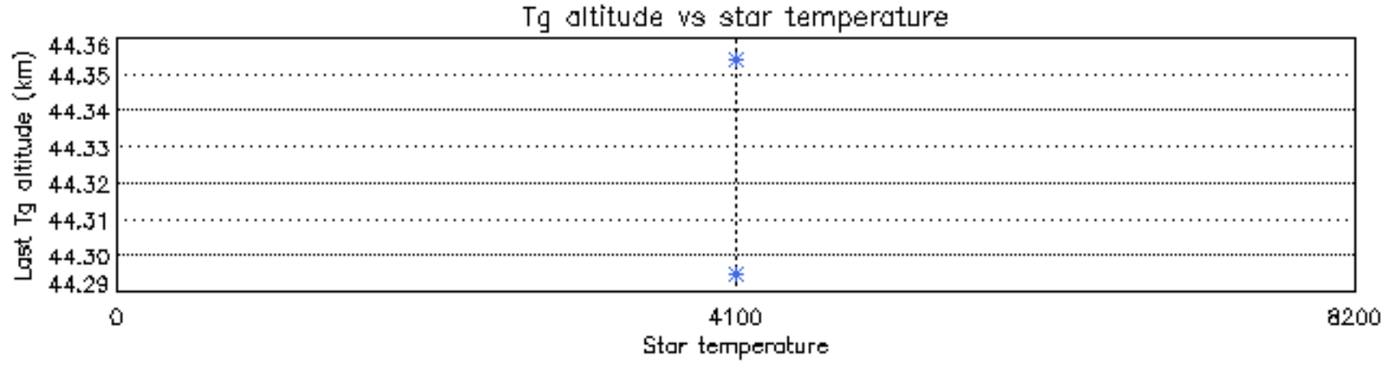

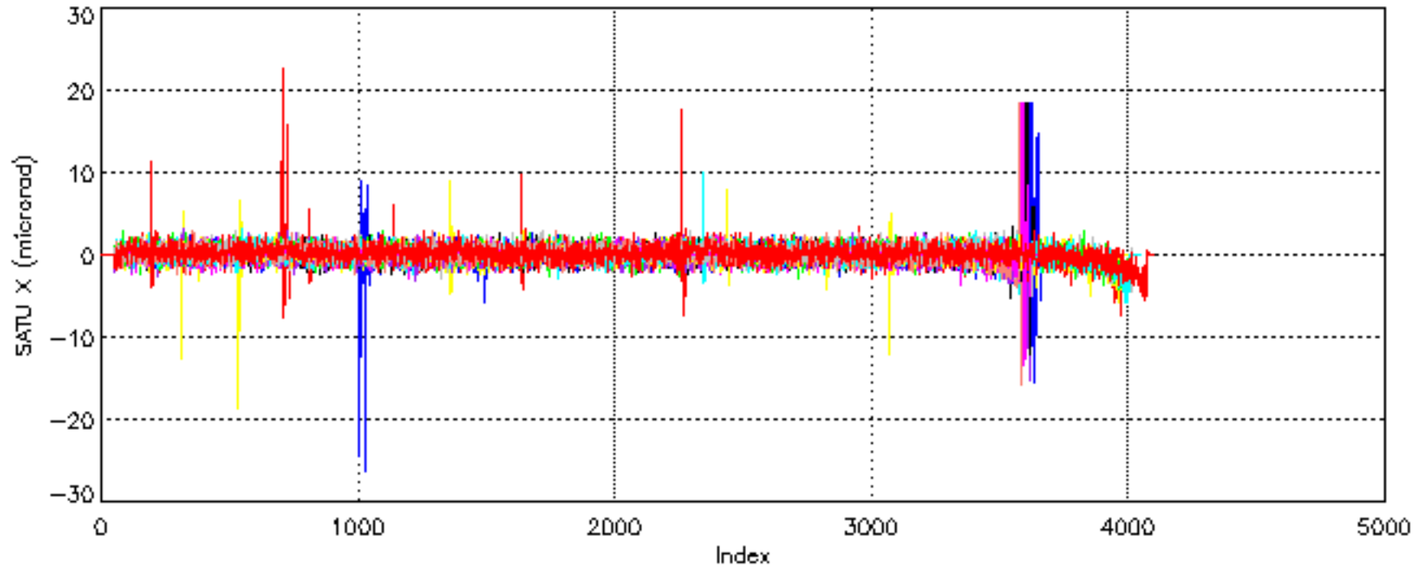
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0
−10
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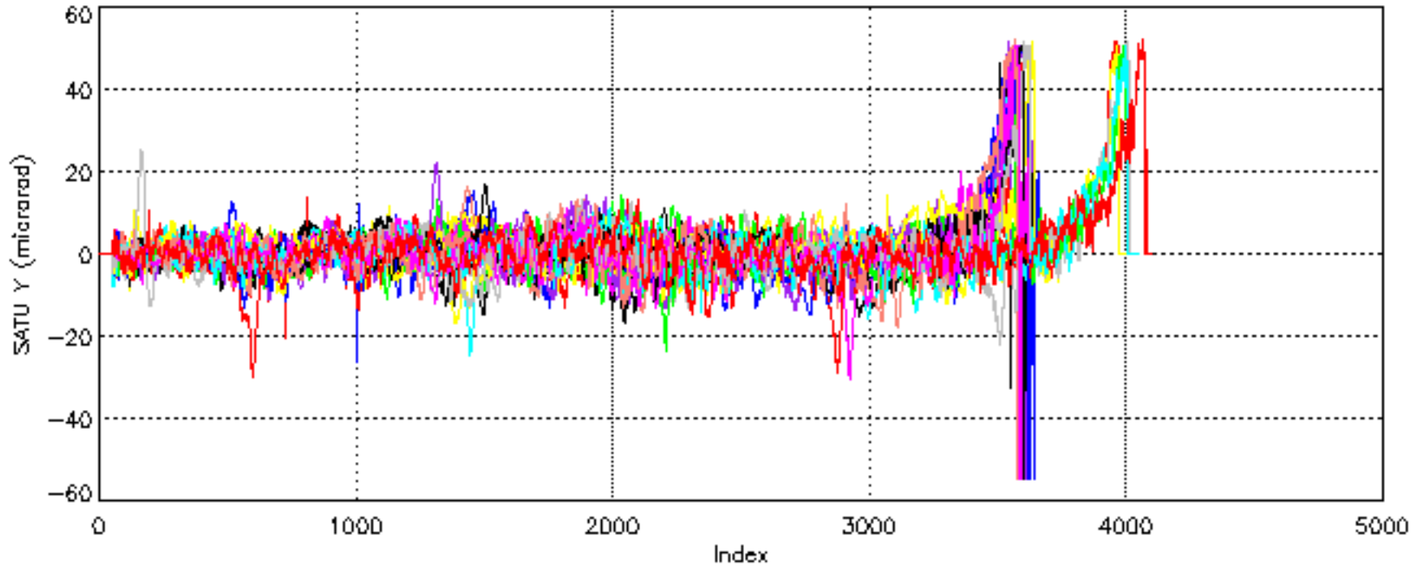
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
Index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20
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−20
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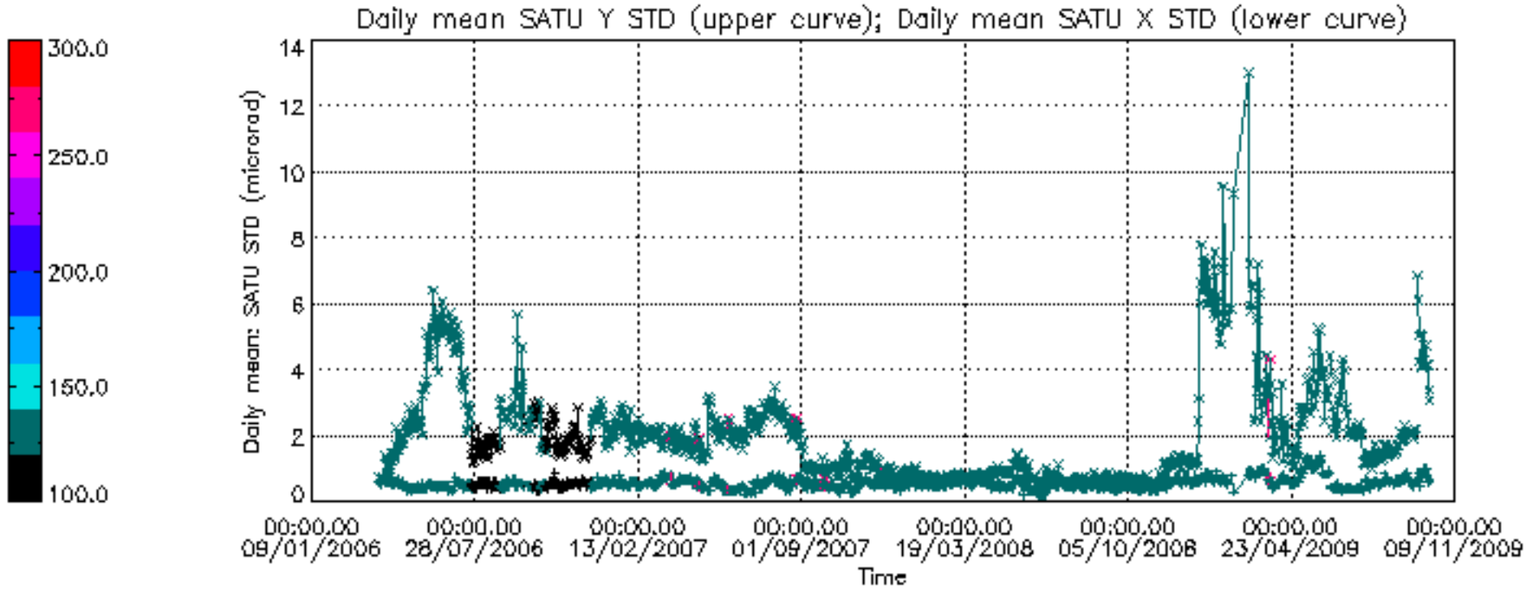
−60
S4TU Y (microrad)
0
1000
2000
3000
4000
5000
Index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250.0
200.0
150.0
100.0
Daily mean: SATU STD (microrad)
0
2
4
6
8
10
12
14
00:00.00 09/01/2006
00:00.00 28/07/2006
00:00.00 13/02/2007
00:00.00 01/09/2007
00:00.00 19/03/2008
00:00.00 05/10/2008
00:00.00 23/04/2009
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Time

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   1; 2567.0; 26-OCT-2009 12:58:43; Bright;  41.0;  173;  4Bet Tri  ; 3.00;  8900;occ;  82;   0;40029
   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
   4; 6501.4; 26-OCT-2009 19:06:06; Dark  ;  61.0;    2;   Alp Car  ;-0.74;  7000;occ; 122;   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; 2681.6; 27-OCT-2009 14:09:37; Bright;  38.0;   73; 57Gam1And  ; 2.26; 13100;occ;  76;   0;40044
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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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   1; 2559.7; 27-OCT-2009 19:09:23; Bright;  60.0;  173;  4Bet Tri  ; 3.00;  8900;occ; 120;   0;40047
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   1; 2674.1; 28-OCT-2009 22:00:52; Bright;  13.0;   73; 57Gam1And  ; 2.26; 13100;occ;  26;   0;40063
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   1;-1128.7; 28-OCT-2009 07:32:42; Bright;  52.0;   22; 32Alp Leo  ; 1.36; 15200;occ; 104;   0;40054
   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