

# GOMOS Daily Report 11-OCT-2010

## 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	16OCT2010 04:53:07
Data source version	GOMOS/5.01
Start time of products	11OCT2010 00:07:57
Stop time of products	11OCT2010 23:58:17
Store outputs in DB	Yes
Nb of level 1b prods	82
Nb of prods with errors	1

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

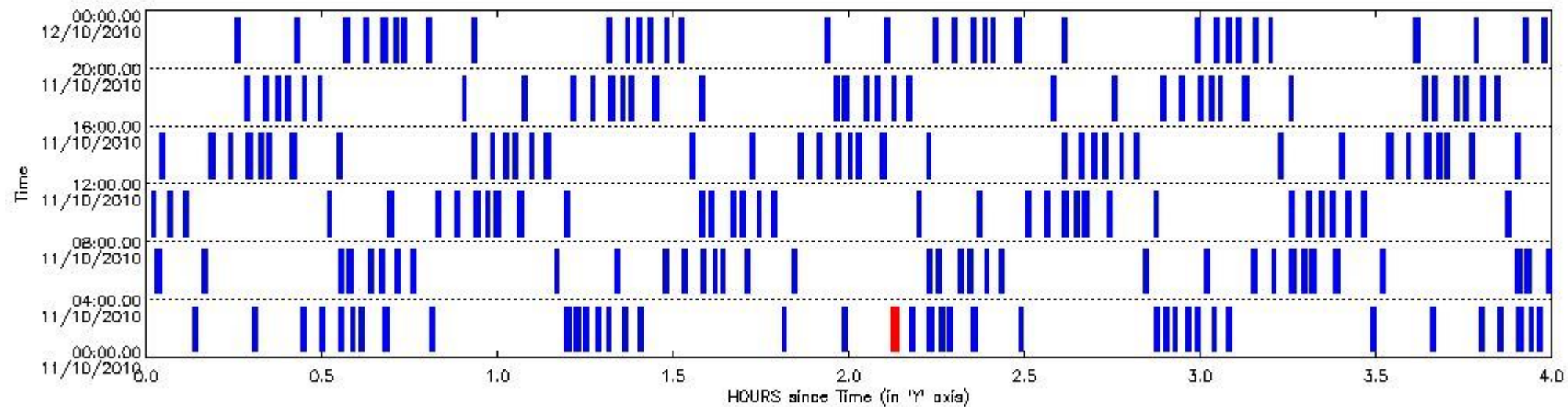
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
11-OCT-2010 02:07:12	15RhoPup	132	45032

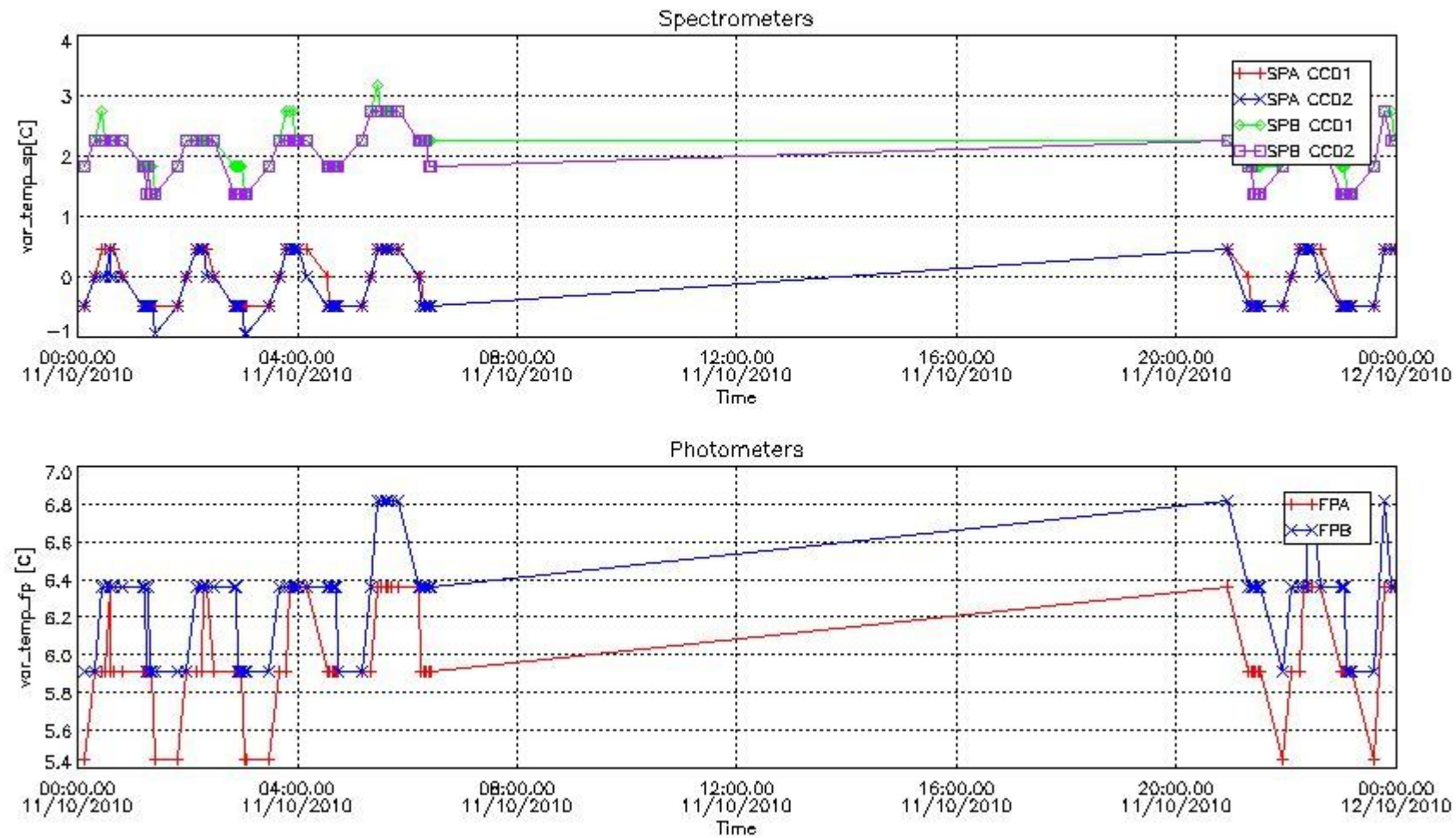
### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101011_000757_000000402093_00388_45031_0390.N1	11-OCT-2010 00:07:57	Bright	40.000	166	17Eps Leo	2.9800	6000.0	80	45031	No
2	GOM_TRA_1PNPDE20101011_001808_000000532093_00388_45031_0391.N1	11-OCT-2010 00:18:08	Twilight	52.500	48	30Alp Hya	1.9770	4100.0	105	45031	No
3	GOM_TRA_1PNPDE20101011_002621_000000522093_00388_45031_0412.N1	11-OCT-2010 00:26:21	Dark	51.500	132	15Rho Pup	2.8030	6900.0	103	45031	No
4	GOM_TRA_1PNPDE20101011_002942_000000442093_00388_45031_0413.N1	11-OCT-2010 00:29:42	Dark	43.500	70	Zet Pup	2.2460	39000.	87	45031	No
5	GOM_TRA_1PNPDE20101011_003453_000000432093_00389_45032_0414.N1	11-OCT-2010 00:34:53	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	45032	No
6	GOM_TRA_1PNPDE20101011_003616_000000572093_00389_45032_0415.N1	11-OCT-2010 00:36:16	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	45032	No
7	GOM_TRA_1PNPDE20101011_004015_000000652093_00389_45032_0416.N1	11-OCT-2010 00:40:15	Dark	64.500	108	Alp Col	2.6520	15200.	129	45032	No
8	GOM_TRA_1PNPDE20101011_004822_000000462093_00389_45032_0417.N1	11-OCT-2010 00:48:22	Straylight	46.000	157	The1Eri	2.9060	9300.0	92	45032	No
9	GOM_TRA_1PNPDE20101011_011131_000000522093_00389_45032_0418.N1	11-OCT-2010 01:11:31	Bright	51.500	105	6Bet Ari	2.6450	8900.0	103	45032	No
10	GOM_TRA_1PNPDE20101011_011302_000000582093_00389_45032_0419.N1	11-OCT-2010 01:13:02	Bright	57.500	50	13Alp Ari	2.0070	4250.0	115	45032	No

11	GOM_TRA_1PNPDE20101011_011438_000000432093_00389_45032_0420.N1	11-OCT-2010 01:14:38	Bright	42.500	53	43Bet And	2.0480	3300.0	85	45032	No
12	GOM_TRA_1PNPDE20101011_011647_000000512093_00389_45032_0421.N1	11-OCT-2010 01:16:47	Bright	50.500	173	4Bet Tri	3.0040	8900.0	101	45032	No
13	GOM_TRA_1PNPDE20101011_011831_000000482093_00389_45032_0422.N1	11-OCT-2010 01:18:31	Bright	47.500	73	57Gam1And	2.2600	13100.	95	45032	No
14	GOM_TRA_1PNPDE20101011_012122_000000392093_00389_45032_0423.N1	11-OCT-2010 01:21:22	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	45032	No
15	GOM_TRA_1PNPDE20101011_012358_000000492093_00389_45032_0424.N1	11-OCT-2010 01:23:58	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	45032	No
16	GOM_TRA_1PNPDE20101011_014833_000000392093_00389_45032_0425.N1	11-OCT-2010 01:48:33	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	45032	No
17	GOM_TRA_1PNPDE20101011_015845_000000472093_00389_45032_0441.N1	11-OCT-2010 01:58:45	Twilight	47.000	48	30Alp Hya	1.9770	4100.0	94	45032	No
18	GOM_TRA_1PNPDE20101011_021019_000000432093_00389_45032_0442.N1	11-OCT-2010 02:10:19	Dark	42.500	70	Zet Pup	2.2460	39000.	85	45032	No
19	GOM_TRA_1PNPDE20101011_021530_000000472093_00390_45033_0443.N1	11-OCT-2010 02:15:30	Dark	47.000	161	Tau Pup	2.9310	4500.0	94	45033	No
20	GOM_TRA_1PNPDE20101011_021653_000000462093_00390_45033_0444.N1	11-OCT-2010 02:16:53	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	45033	No
21	GOM_TRA_1PNPDE20101011_022052_000000652093_00390_45033_0445.N1	11-OCT-2010 02:20:52	Dark	65.000	108	Alp Col	2.6520	15200.	130	45033	No
22	GOM_TRA_1PNPDE20101011_022859_000000462093_00390_45033_0446.N1	11-OCT-2010 02:28:59	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	45033	No
23	GOM_TRA_1PNPDE20101011_025207_000000512093_00390_45033_0447.N1	11-OCT-2010 02:52:07	Bright	51.000	105	6Bet Ari	2.6450	8900.0	102	45033	No
24	GOM_TRA_1PNPDE20101011_025337_000000582093_00390_45033_0448.N1	11-OCT-2010 02:53:37	Bright	58.000	50	13Alp Ari	2.0070	4250.0	116	45033	No
25	GOM_TRA_1PNPDE20101011_025514_000000452093_00390_45033_0449.N1	11-OCT-2010 02:55:14	Bright	44.500	53	43Bet And	2.0480	3300.0	89	45033	No
26	GOM_TRA_1PNPDE20101011_025722_000000502093_00390_45033_0450.N1	11-OCT-2010 02:57:22	Bright	50.000	173	4Bet Tri	3.0040	8900.0	100	45033	No
27	GOM_TRA_1PNPDE20101011_025906_000000472093_00390_45033_0451.N1	11-OCT-2010 02:59:06	Bright	47.000	73	57Gam1And	2.2600	13100.	94	45033	No
28	GOM_TRA_1PNPDE20101011_030157_000000392093_00390_45033_0452.N1	11-OCT-2010 03:01:57	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	45033	No
29	GOM_TRA_1PNPDE20101011_030433_000000452093_00390_45033_0453.N1	11-OCT-2010 03:04:33	Bright	44.500	160	23Gam Per	2.9300	4700.0	89	45033	No
30	GOM_TRA_1PNPDE20101011_032909_000000392093_00390_45033_0462.N1	11-OCT-2010 03:29:09	Bright	39.000	166	17Eps Leo	2.9800	6000.0	78	45033	No
31	GOM_TRA_1PNPDE20101011_033921_000000512093_00390_45033_0463.N1	11-OCT-2010 03:39:21	Twilight	50.500	48	30Alp Hya	1.9770	4100.0	101	45033	No
32	GOM_TRA_1PNPDE20101011_034735_000000522093_00390_45033_0464.N1	11-OCT-2010 03:47:35	Dark	51.500	132	15Rho Pup	2.8030	6900.0	103	45033	No
33	GOM_TRA_1PNPDE20101011_035056_000000432093_00390_45033_0465.N1	11-OCT-2010 03:50:56	Dark	43.000	70	Zet Pup	2.2460	39000.	86	45033	No
34	GOM_TRA_1PNPDE20101011_035607_000000422093_00391_45034_0466.N1	11-OCT-2010 03:56:07	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	45034	No
35	GOM_TRA_1PNPDE20101011_035730_000000462093_00391_45034_0467.N1	11-OCT-2010 03:57:30	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	45034	No
36	GOM_TRA_1PNPDE20101011_040130_000000652093_00391_45034_0468.N1	11-OCT-2010 04:01:30	Dark	65.000	108	Alp Col	2.6520	15200.	130	45034	No
37	GOM_TRA_1PNPDE20101011_040935_000000472093_00391_45034_0469.N1	11-OCT-2010 04:09:35	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	45034	No
38	GOM_TRA_1PNPDE20101011_043242_000000522093_00391_45034_0470.N1	11-OCT-2010 04:32:42	Bright	51.500	105	6Bet Ari	2.6450	8900.0	103	45034	No
39	GOM_TRA_1PNPDE20101011_043412_000000562093_00391_45034_0471.N1	11-OCT-2010 04:34:12	Bright	55.500	50	13Alp Ari	2.0070	4250.0	111	45034	No
40	GOM_TRA_1PNPDE20101011_043757_000000502093_00391_45034_0472.N1	11-OCT-2010 04:37:57	Bright	50.000	173	4Bet Tri	3.0040	8900.0	100	45034	No
41	GOM_TRA_1PNPDE20101011_043941_000000502093_00391_45034_0473.N1	11-OCT-2010 04:39:41	Bright	50.000	73	57Gam1And	2.2600	13100.	100	45034	No
42	GOM_TRA_1PNPDE20101011_044233_000000402093_00391_45034_0474.N1	11-OCT-2010 04:42:33	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	45034	No
43	GOM_TRA_1PNPDE20101011_044508_000000492093_00391_45034_0475.N1	11-OCT-2010 04:45:08	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	45034	No
44	GOM_TRA_1PNPDE20101011_050946_000000402093_00391_45034_0486.N1	11-OCT-2010 05:09:46	Bright	40.000	166	17Eps Leo	2.9800	6000.0	80	45034	No
45	GOM_TRA_1PNPDE20101011_051958_000000532093_00391_45034_0487.N1	11-OCT-2010 05:19:58	Twilight	52.500	48	30Alp Hya	1.9770	4100.0	105	45034	No
46	GOM_TRA_1PNPDE20101011_052812_000000522093_00391_45034_0488.N1	11-OCT-2010 05:28:12	Dark	51.500	132	15Rho Pup	2.8030	6900.0	103	45034	No
47	GOM_TRA_1PNPDE20101011_053132_000000442093_00391_45034_0489.N1	11-OCT-2010 05:31:32	Dark	43.500	70	Zet Pup	2.2460	39000.	87	45034	No
48	GOM_TRA_1PNPDE20101011_053644_000000442093_00392_45035_0490.N1	11-OCT-2010 05:36:44	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45035	No
49	GOM_TRA_1PNPDE20101011_053806_000000462093_00392_45035_0491.N1	11-OCT-2010 05:38:06	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	45035	No
50	GOM_TRA_1PNPDE20101011_054207_000000632093_00392_45035_0492.N1	11-OCT-2010 05:42:07	Dark	62.500	108	Alp Col	2.6520	15200.	125	45035	No
51	GOM_TRA_1PNPDE20101011_055012_000000482093_00392_45035_0493.N1	11-OCT-2010 05:50:12	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	45035	No
52	GOM_TRA_1PNPDE20101011_061317_000000502093_00392_45035_0494.N1	11-OCT-2010 06:13:17	Bright	50.000	105	6Bet Ari	2.6450	8900.0	100	45035	No
53	GOM_TRA_1PNPDE20101011_061448_000000542093_00392_45035_0495.N1	11-OCT-2010 06:14:48	Bright	54.000	50	13Alp Ari	2.0070	4250.0	108	45035	No
54	GOM_TRA_1PNPDE20101011_061832_000000512093_00392_45035_0496.N1	11-OCT-2010 06:18:32	Bright	50.500	173	4Bet Tri	3.0040	8900.0	101	45035	No
55	GOM_TRA_1PNPDE20101011_062016_000000492093_00392_45035_0497.N1	11-OCT-2010 06:20:16	Bright	49.000	73	57Gam1And	2.2600	13100.	98	45035	No
56	GOM_TRA_1PNPDE20101011_062309_000000382093_00392_45035_0498.N1	11-OCT-2010 06:23:09	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	45035	No
57	GOM_TRA_1PNPDE20101011_062543_000000492093_00392_45035_0499.N1	11-OCT-2010 06:25:43	Bright	49.000	160	23Gam Per	2.9300	4700.0	98	45035	No
58	GOM_TRA_1PNPDE20101011_205540_000000472093_00401_45044_0677.N1	11-OCT-2010 20:55:40	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	45044	No
59	GOM_TRA_1PNPDE20101011_211834_000000512093_00401_45044_0678.N1	11-OCT-2010 21:18:34	Bright	51.000	105	6Bet Ari	2.6450	8900.0	102	45044	No
60	GOM_TRA_1PNPDE20101011_212144_000000452093_00401_45044_0679.N1	11-OCT-2010 21:21:44	Bright	45.000	53	43Bet And	2.0480	3300.0	90	45044	No
61	GOM_TRA_1PNPDE20101011_212347_000000512093_00401_45044_0680.N1	11-OCT-2010 21:23:47	Bright	50.500	173	4Bet Tri	3.0040	8900.0	101	45044	No
62	GOM_TRA_1PNPDE20101011_212533_000000492093_00401_45044_0681.N1	11-OCT-2010 21:25:33	Bright	49.000	73	57Gam1And	2.2600	13100.	98	45044	No
63	GOM_TRA_1PNPDE20101011_212830_000000402093_00401_45044_0682.N1	11-OCT-2010 21:28:30	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	45044	No
64	GOM_TRA_1PNPDE20101011_213059_000000502093_00401_45044_0683.N1	11-OCT-2010 21:30:59	Bright	50.000	160	23Gam Per	2.9300	4700.0	100	45044	No
65	GOM_TRA_1PNPDE20101011_215547_000000582093_00401_45044_0684.N1	11-OCT-2010 21:55:47	Bright	58.000	166	17Eps Leo	2.9800	6000.0	116	45044	No
66	GOM_TRA_1PNPDE20101011_220603_000000532093_00401_45044_0838.N1	11-OCT-2010 22:06:03	Dark	52.500	48	30Alp Hya	1.9770	4100.0	105	45044	No
67	GOM_TRA_1PNPDE20101011_221423_000000492093_00401_45044_0839.N1	11-OCT-2010 22:14:23	Dark	49.000	132	15Rho Pup	2.8030	6900.0	98	45044	No
68	GOM_TRA_1PNPDE20101011_221740_000000452093_00401_45044_0840.N1	11-OCT-2010 22:17:40	Dark	44.500	70	Zet Pup	2.2460	39000.	89	45044	No
69	GOM_TRA_1PNPDE20101011_222251_000000432093_00402_45045_0841.N1	11-OCT-2010 22:22:51	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	45045	No

70	GOM_TRA_1PNPDE20101011_222413_000000422093_00402_45045_0842.N1	11-OCT-2010 22:24:13	Dark	42.000	2	Alp Car	-0.73600	7000.0	84	45045	No
71	GOM_TRA_1PNPDE20101011_222821_000000652093_00402_45045_0843.N1	11-OCT-2010 22:28:21	Dark	64.500	108	Alp Col	2.6520	15200.	129	45045	No
72	GOM_TRA_1PNPDE20101011_223617_000000492093_00402_45045_0844.N1	11-OCT-2010 22:36:17	Straylight	48.500	157	The1Eri	2.9060	9300.0	97	45045	No
73	GOM_TRA_1PNPDE20101011_225910_000000502093_00402_45045_0845.N1	11-OCT-2010 22:59:10	Bright	49.500	105	6Bet Ari	2.6450	8900.0	99	45045	No
74	GOM_TRA_1PNPDE20101011_230220_000000412093_00402_45045_0846.N1	11-OCT-2010 23:02:20	Bright	41.000	53	43Bet And	2.0480	3300.0	82	45045	No
75	GOM_TRA_1PNPDE20101011_230422_000000502093_00402_45045_0847.N1	11-OCT-2010 23:04:22	Bright	50.000	173	4Bet Tri	3.0040	8900.0	100	45045	No
76	GOM_TRA_1PNPDE20101011_230608_000000482093_00402_45045_0848.N1	11-OCT-2010 23:06:08	Bright	48.000	73	57Gam1And	2.2600	13100.	96	45045	No
77	GOM_TRA_1PNPDE20101011_230905_000000412093_00402_45045_0849.N1	11-OCT-2010 23:09:05	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	45045	No
78	GOM_TRA_1PNPDE20101011_231134_000000492093_00402_45045_0850.N1	11-OCT-2010 23:11:34	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	45045	No
79	GOM_TRA_1PNPDE20101011_233623_000000582093_00402_45045_0851.N1	11-OCT-2010 23:36:23	Bright	58.000	166	17Eps Leo	2.9800	6000.0	116	45045	No
80	GOM_TRA_1PNPDE20101011_234639_000000482093_00402_45045_0836.N1	11-OCT-2010 23:46:39	Dark	48.000	48	30Alp Hya	1.9770	4100.0	96	45045	Yes
81	GOM_TRA_1PNPDE20101011_235500_000000542093_00402_45045_0837.N1	11-OCT-2010 23:55:00	Dark	53.500	132	15Rho Pup	2.8030	6900.0	107	45045	No
82	GOM_TRA_1PNPDE20101011_235817_000000442093_00402_45045_0838.N1	11-OCT-2010 23:58:17	Dark	43.500	70	Zet Pup	2.2460	39000.	87	45045	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).

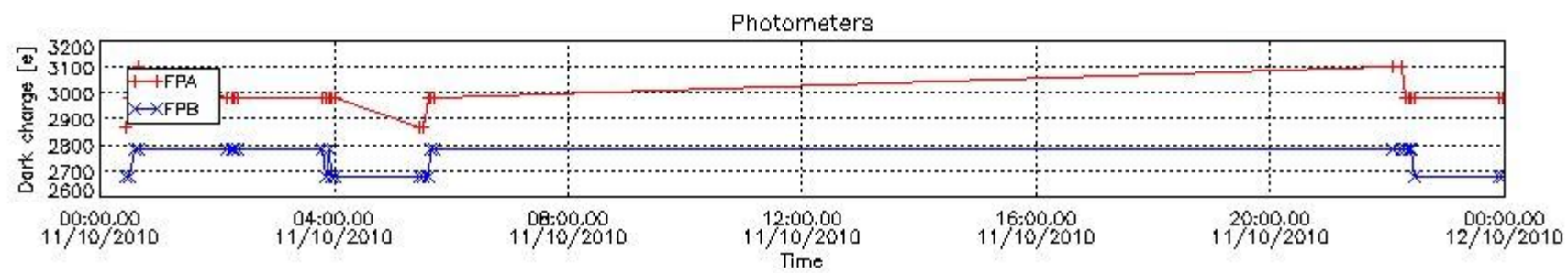
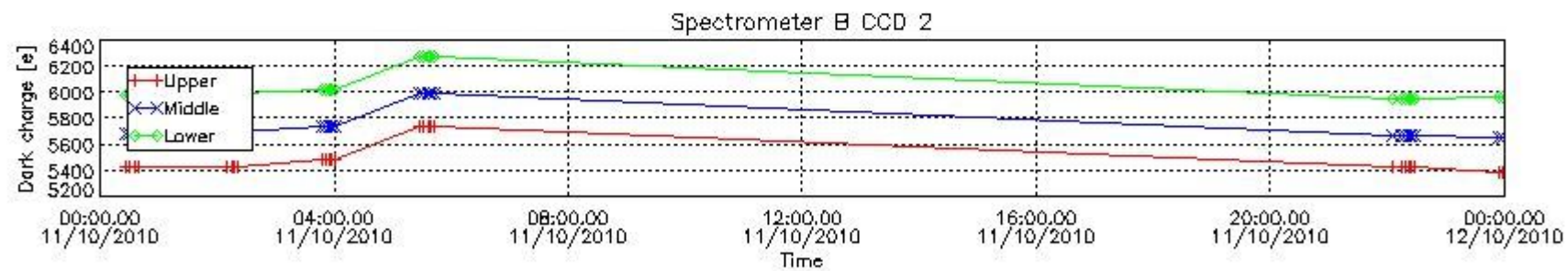
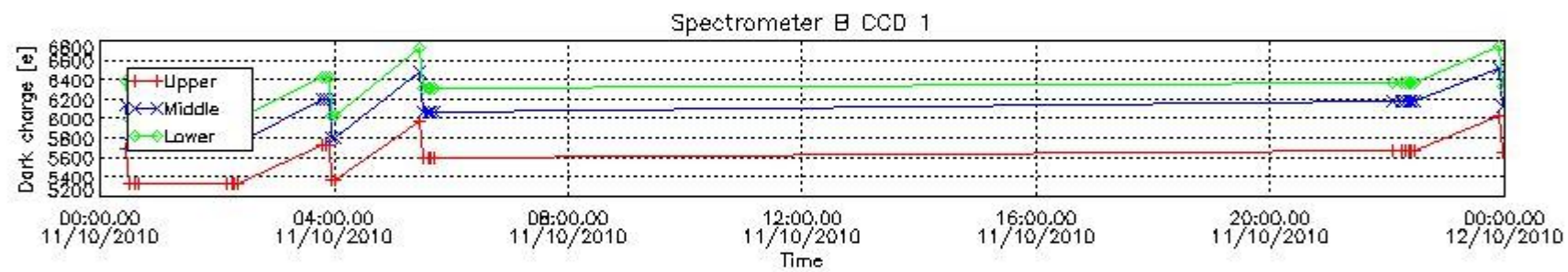
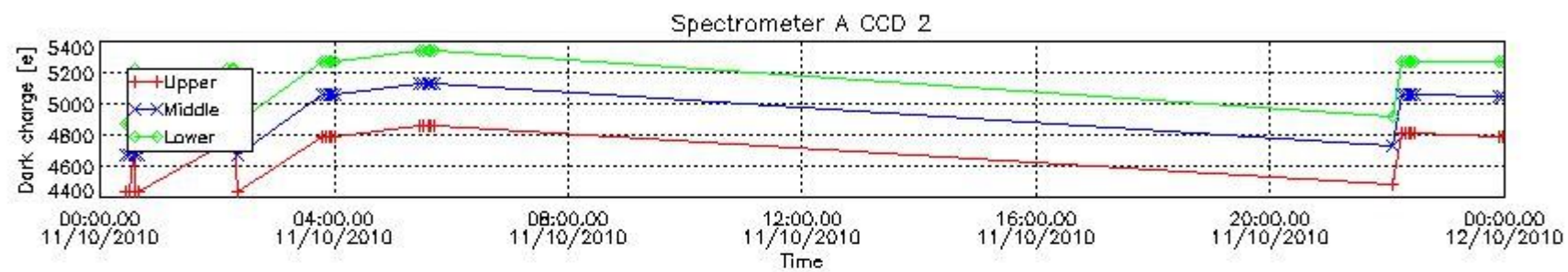
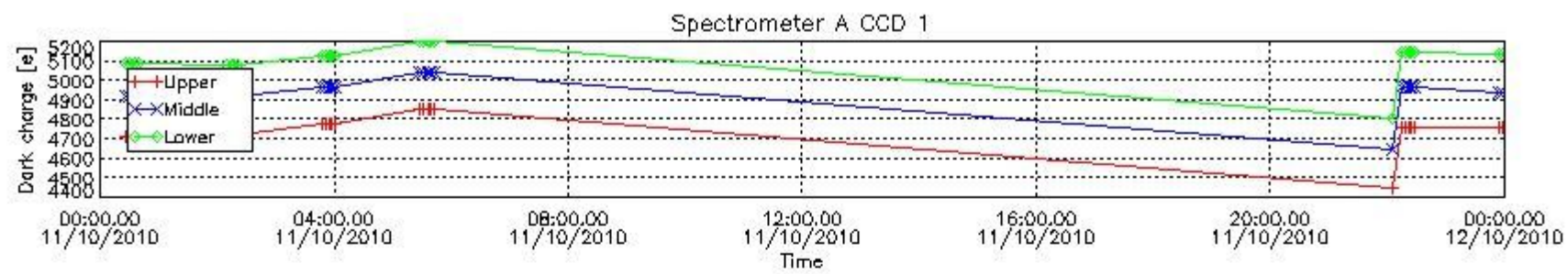
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.



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

Product name	DC information
GOM_TRA_1PNPDE20101011_205540_000000472093_00401_45044_0677.N1	DC map used
GOM_TRA_1PNPDE20101011_211834_000000512093_00401_45044_0678.N1	DC map used
GOM_TRA_1PNPDE20101011_212144_000000452093_00401_45044_0679.N1	DC map used
GOM_TRA_1PNPDE20101011_212347_000000512093_00401_45044_0680.N1	DC map used
GOM_TRA_1PNPDE20101011_212533_000000492093_00401_45044_0681.N1	DC map used
GOM_TRA_1PNPDE20101011_212830_000000402093_00401_45044_0682.N1	DC map used
GOM_TRA_1PNPDE20101011_213059_000000502093_00401_45044_0683.N1	DC map used
GOM_TRA_1PNPDE20101011_215547_000000582093_00401_45044_0684.N1	DC map used

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



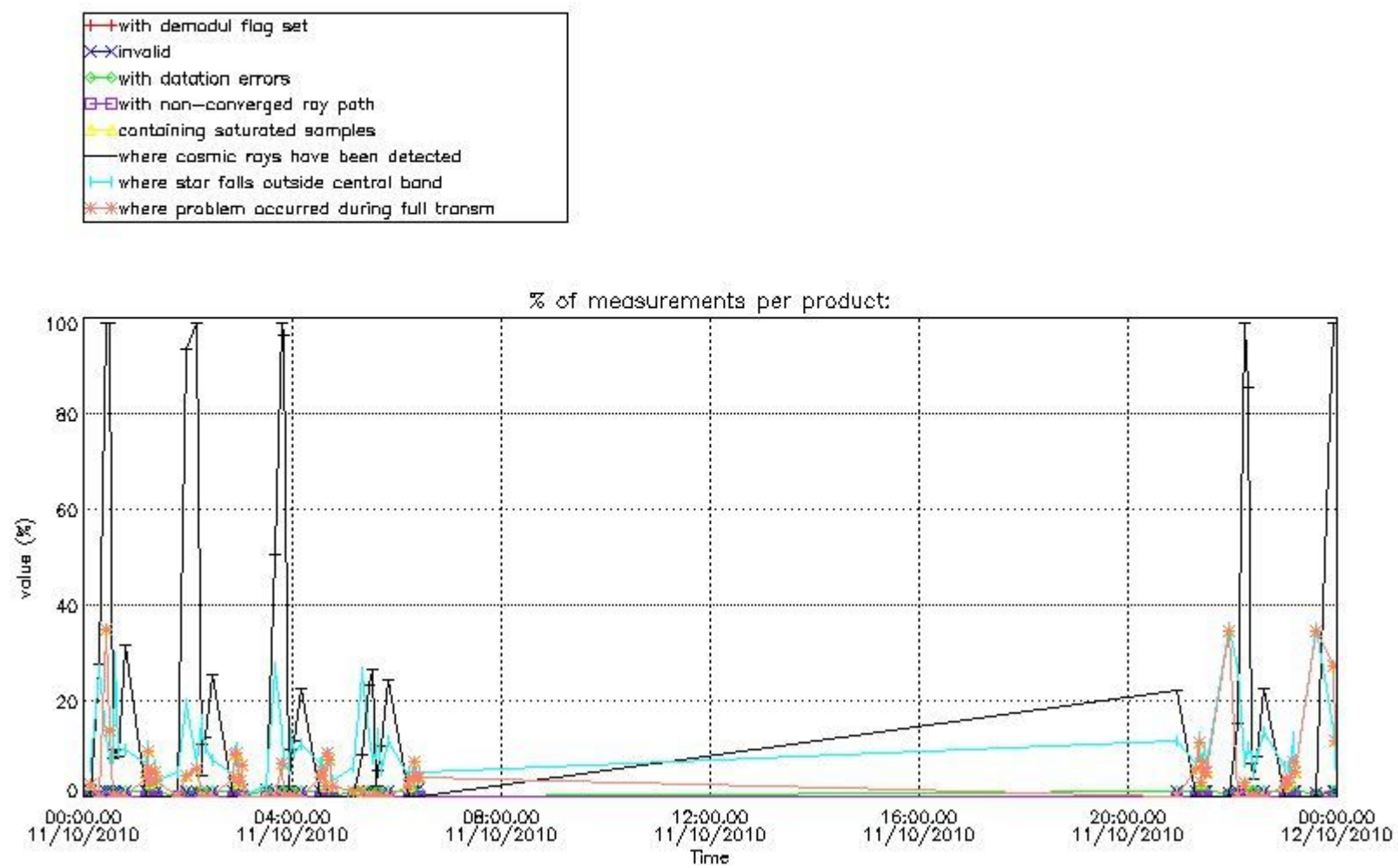
## 5. Demodulation flag and quality information monitoring

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:

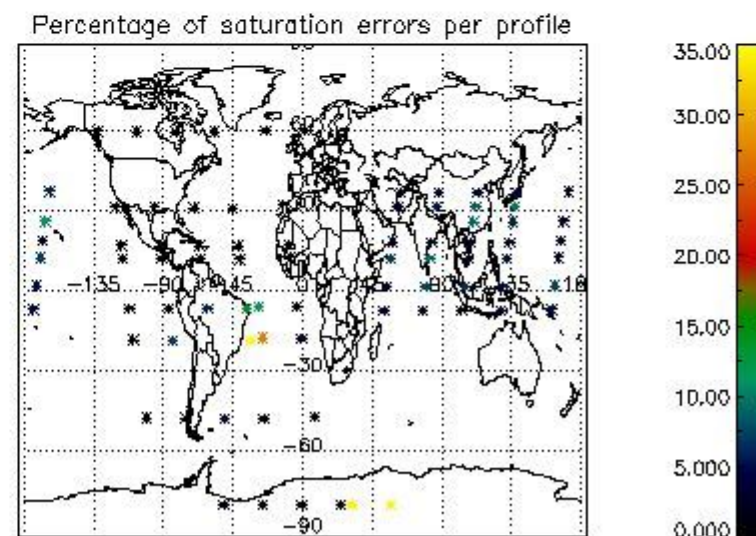
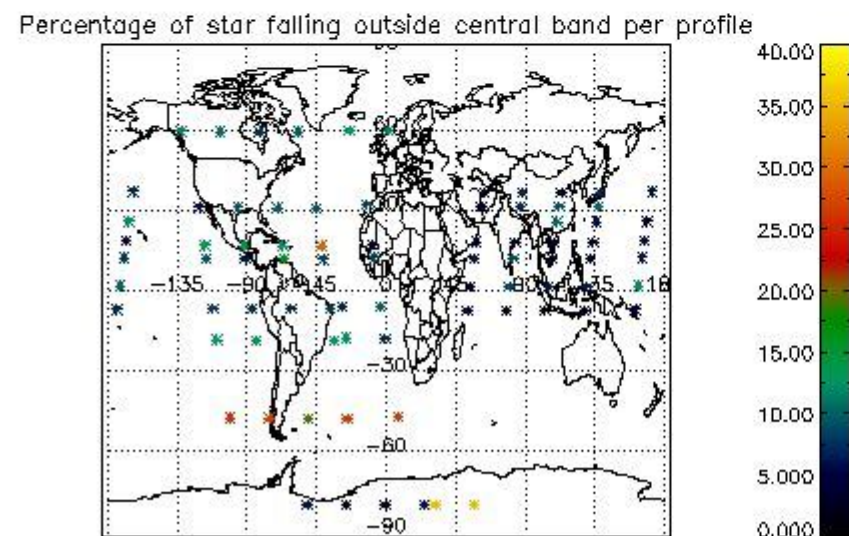
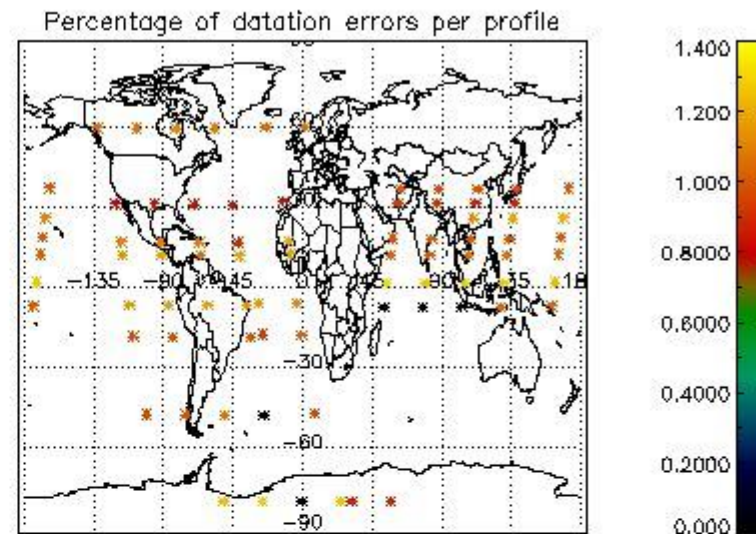
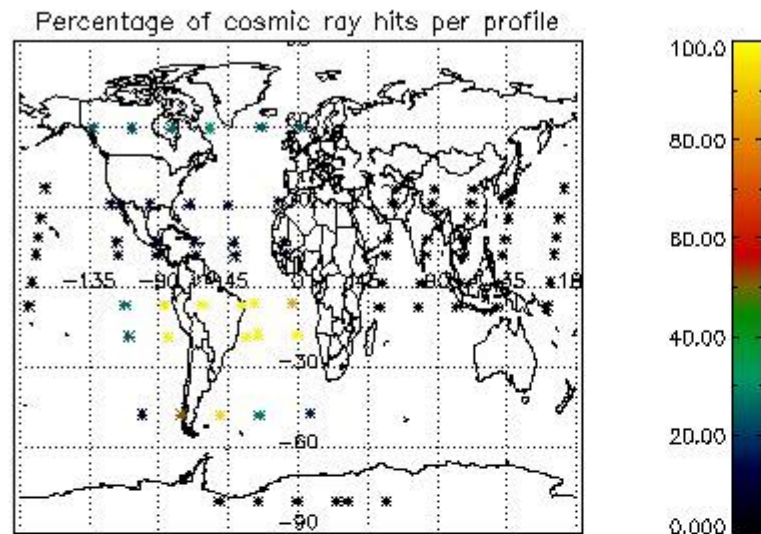
At least one measurement with demodulation flag set:	39.5062 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 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)

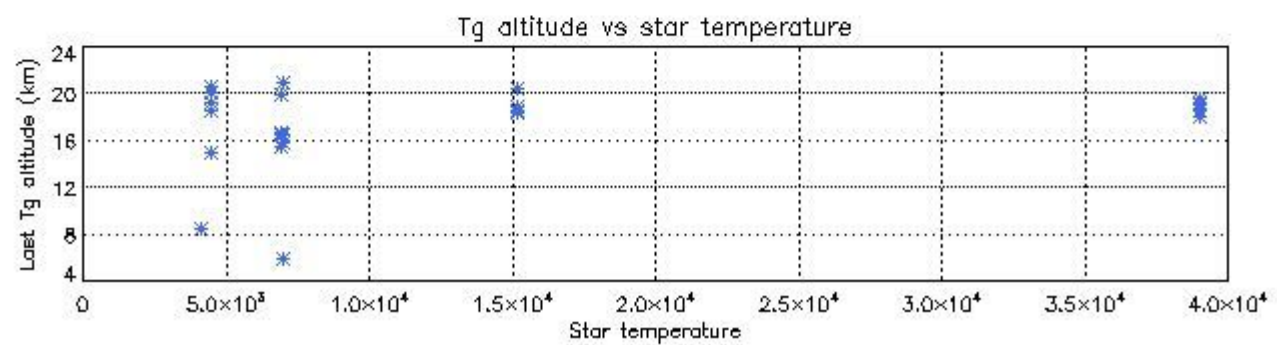
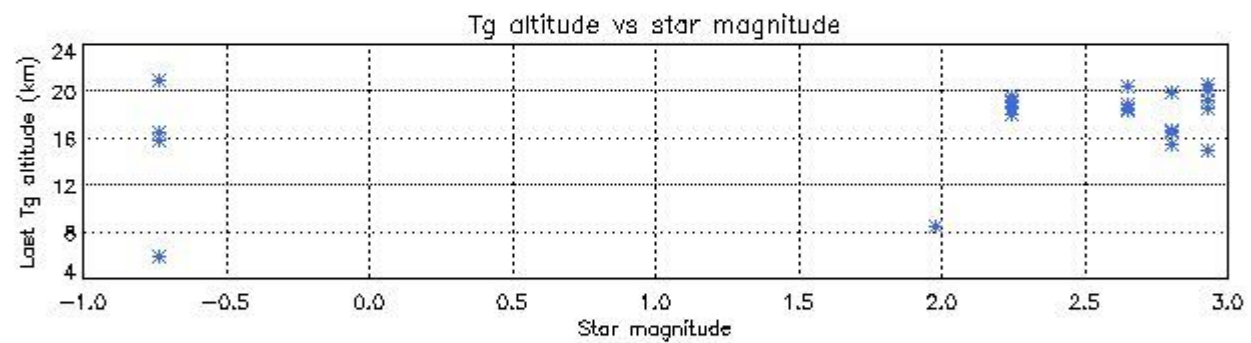
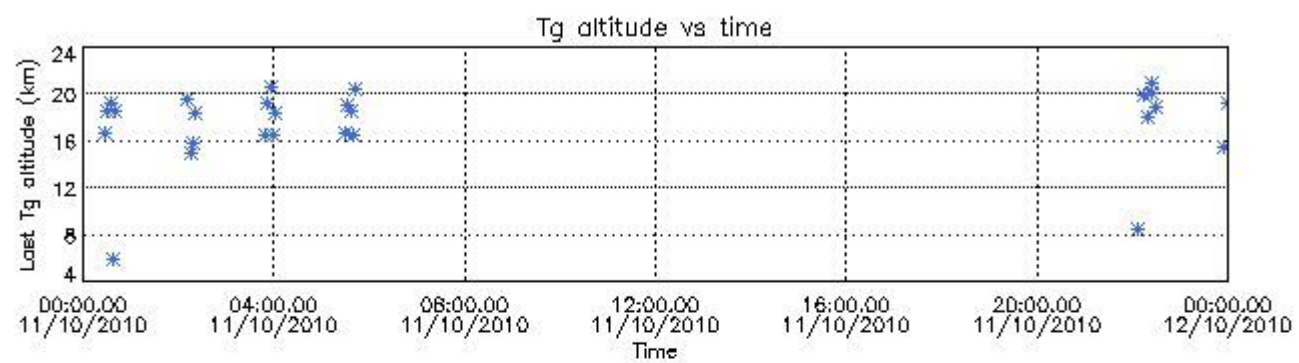
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.444	20.430	9.5440
St. deviation:	3.4013	4.1920	1.8675
Maximum:	20.875	30.443	12.199
Minimum:	5.8351	4.4959	8.1276
Number of data:	27.000	44.000	4.0000

### 6.2 Plot for DARK limb products

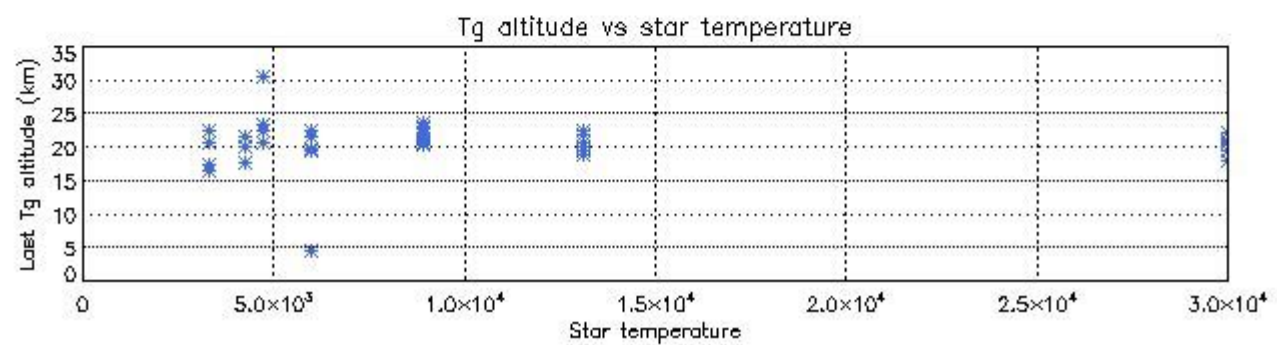
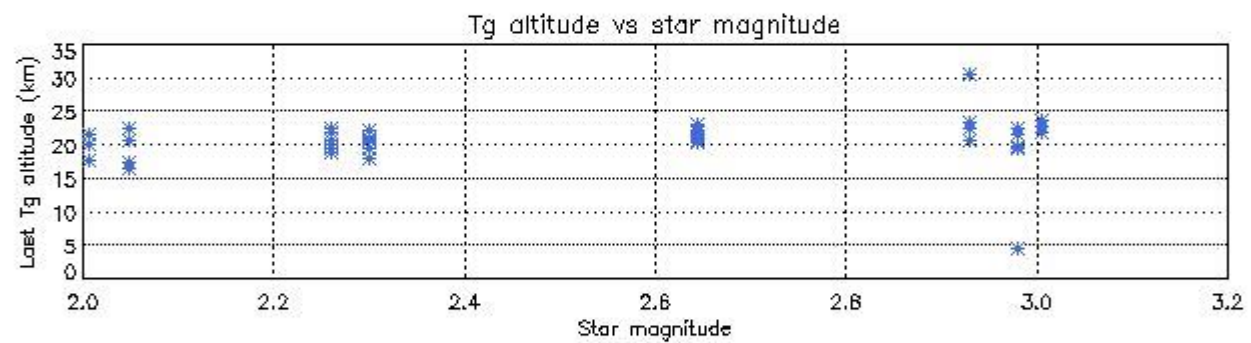
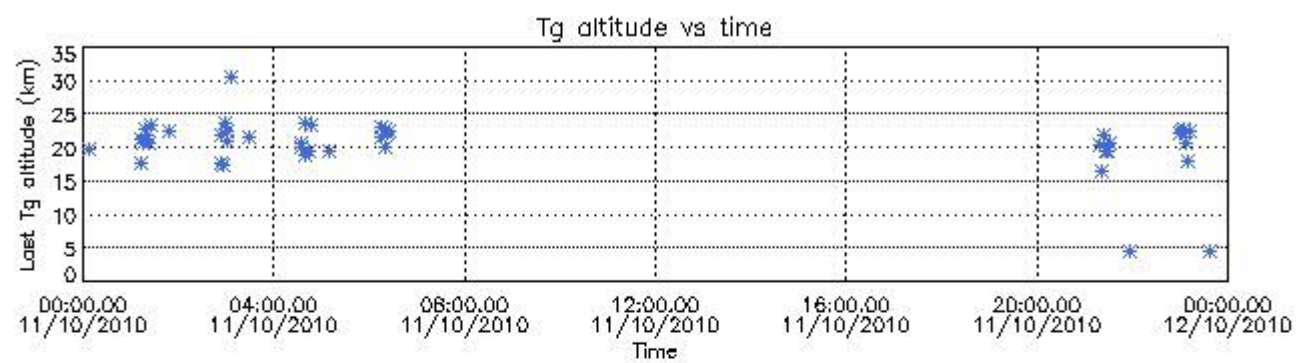


Tangent altitude at which the star is lost



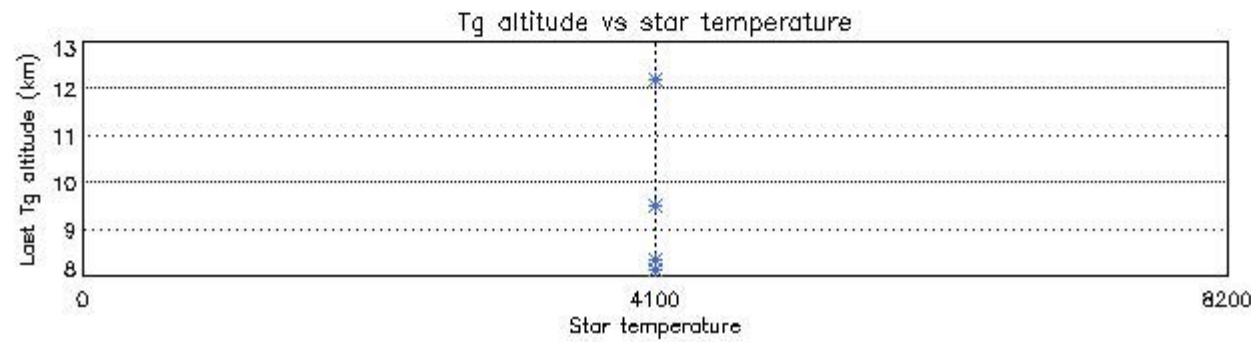
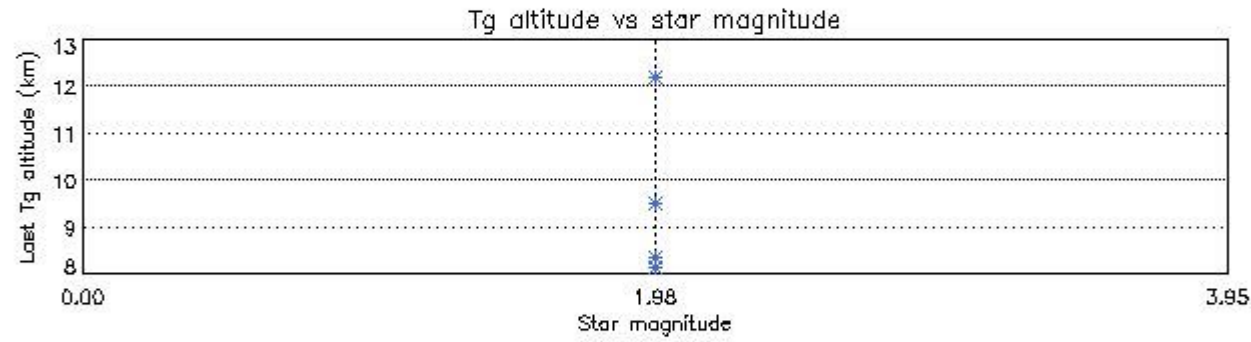
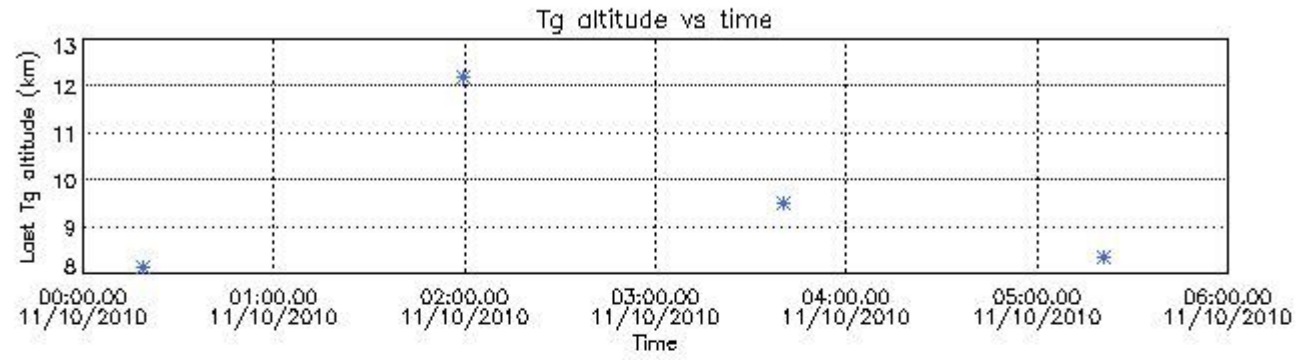
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



### 6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost



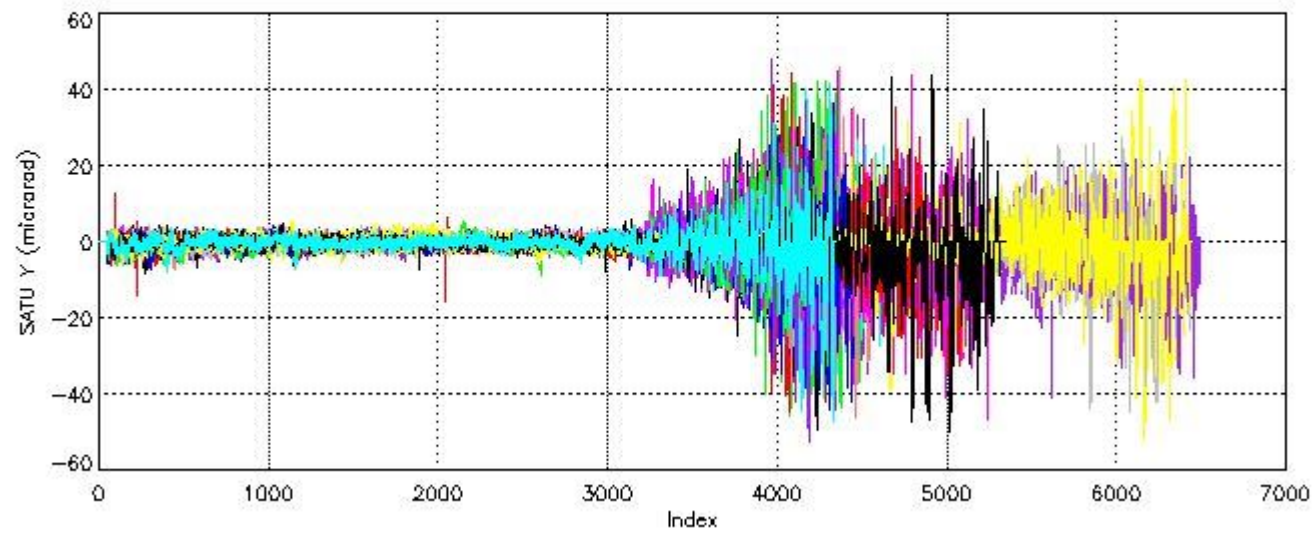
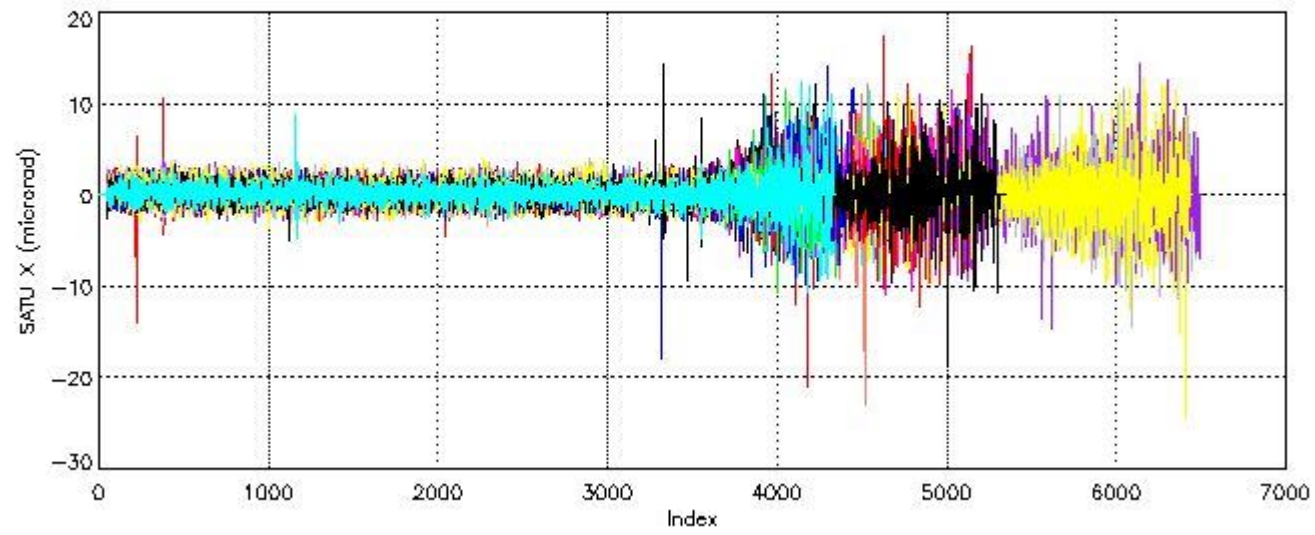
## 7. Star Acquisition and Tracking Unit (SATU)

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 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:	0.27048	-0.56011	0.22615	-0.49964
St. deviation:	0.65775	1.4219	0.83112	1.4562
Maximum:	10.600	12.600	5.8000	6.9000
Minimum:	-14.000	-14.000	-5.2000	-9.4000

Number of data:	29900.	29900.	51450.	51450.
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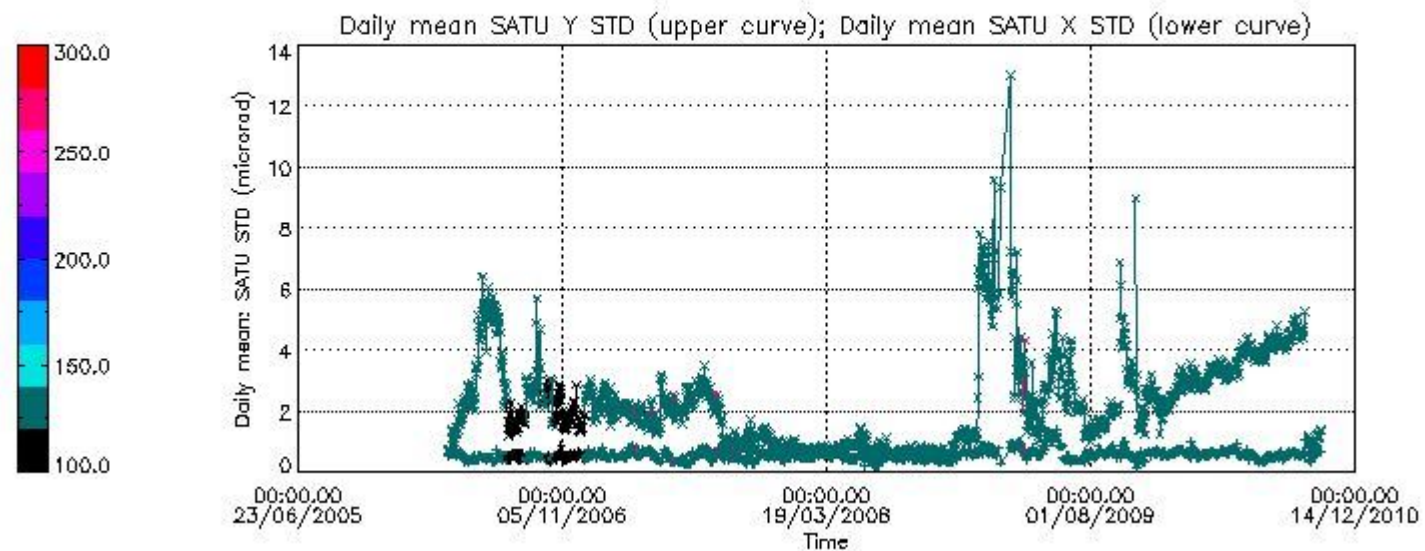
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

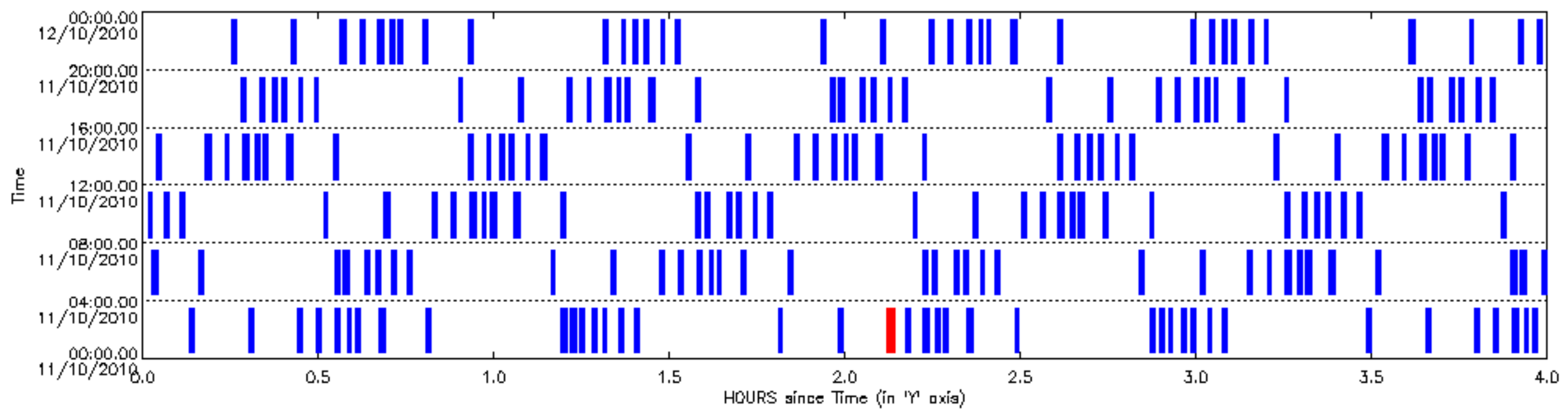
Lower curve: STD of SATU X axis



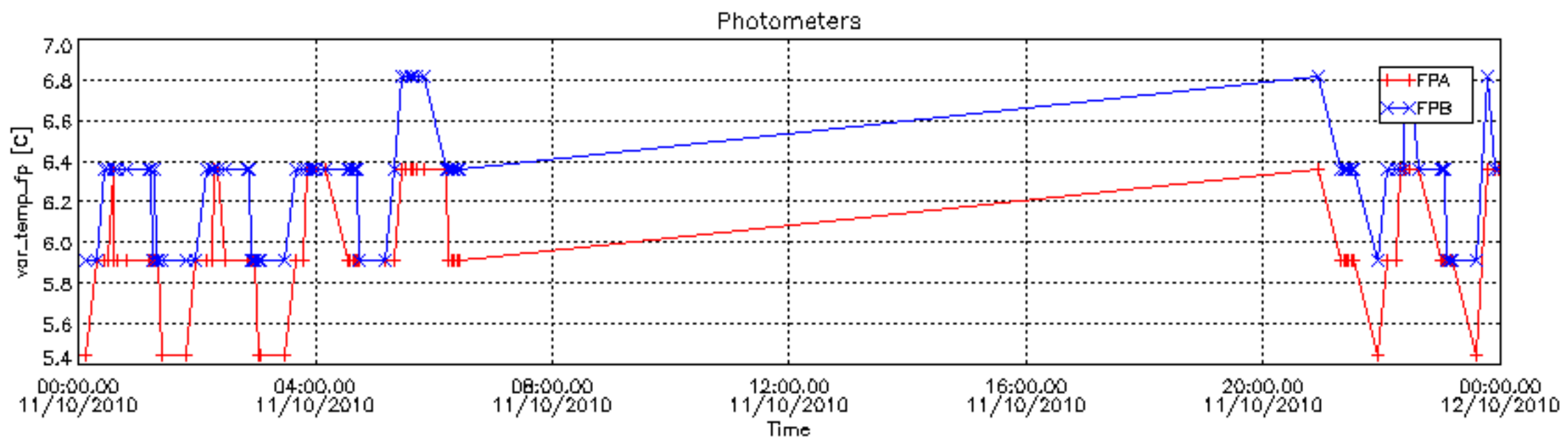
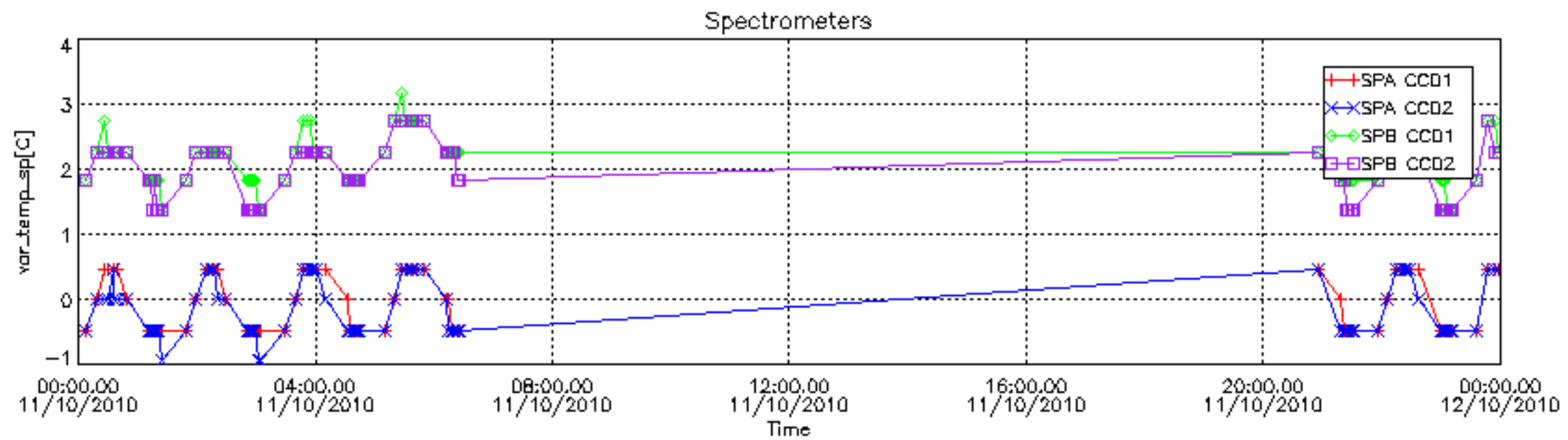
### 8. Auxiliary Data Files used for the production reported in section 2.4

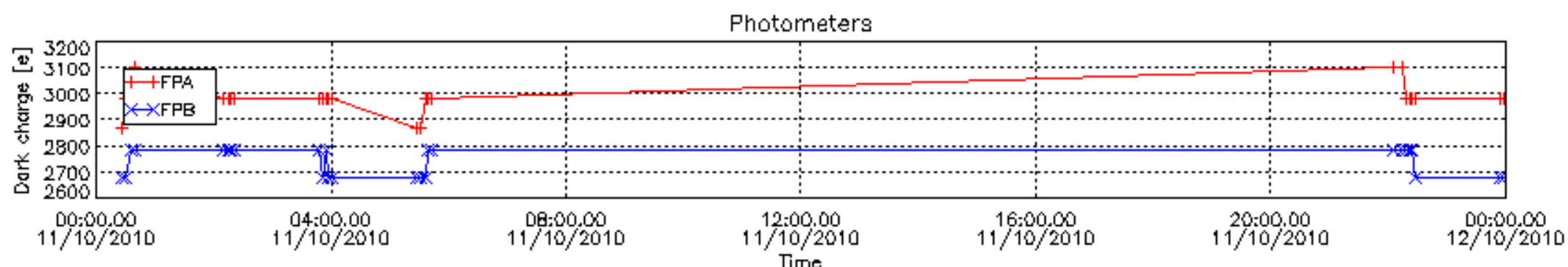
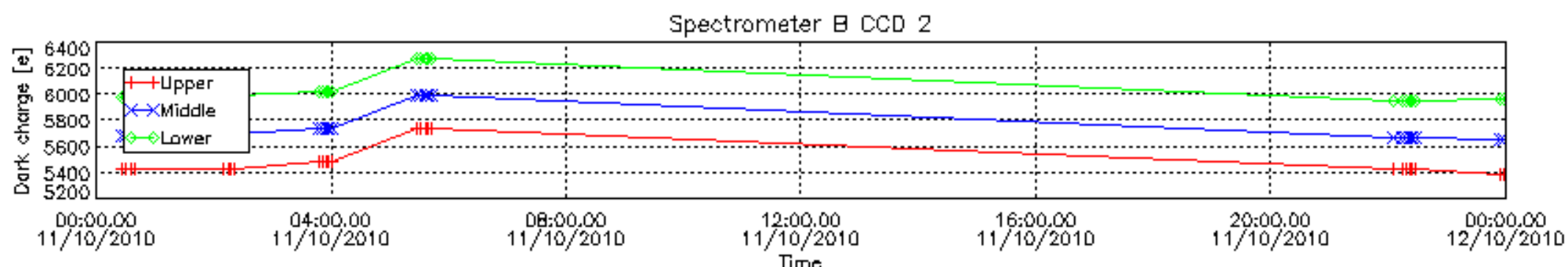
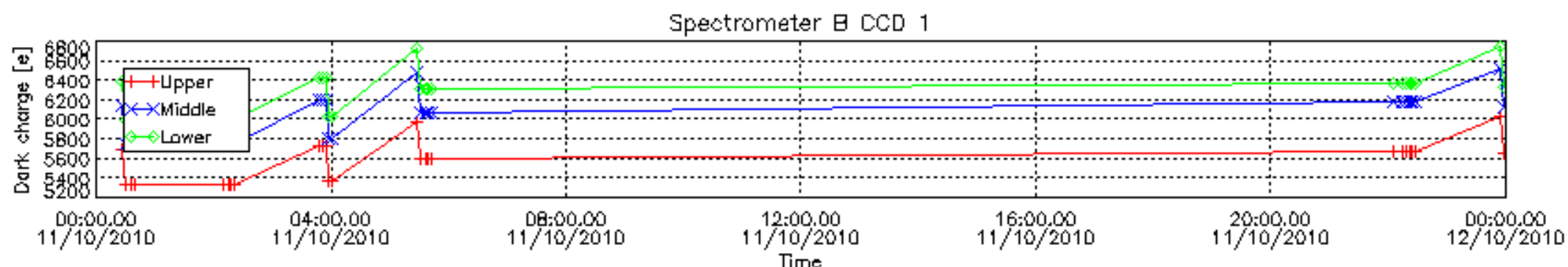
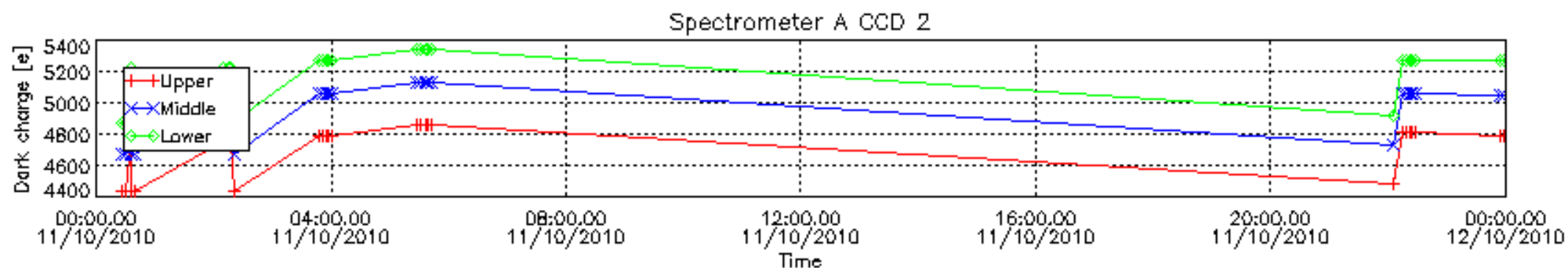
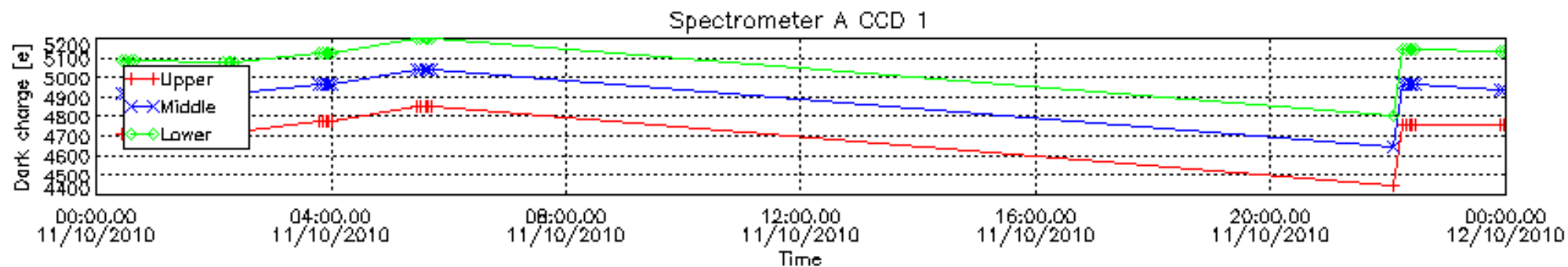
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

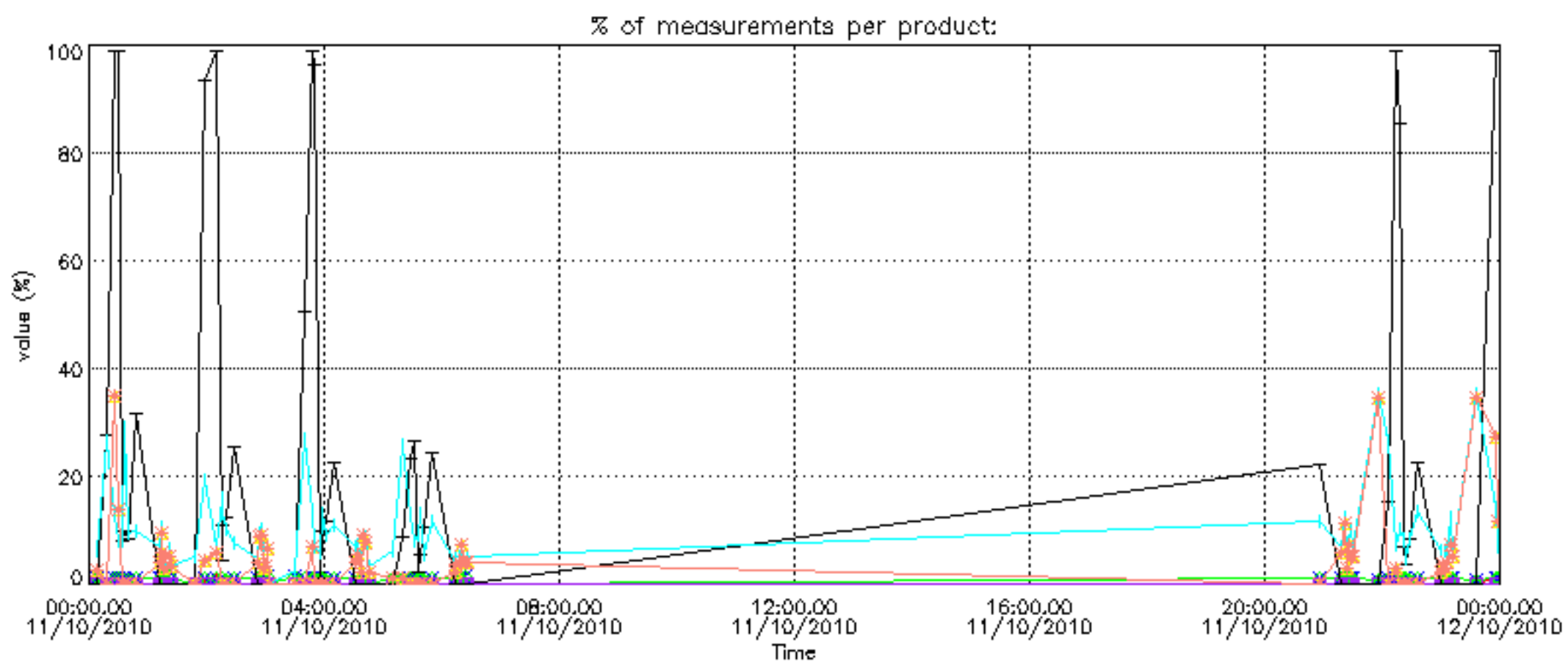
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	11-OCT-2010 00:07:57
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101004_093812_20101002_000000_20500101_000000	1	11-OCT-2010 00:07:57
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	11-OCT-2010 00:07:57
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-OCT-2010 00:07:57
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	11-OCT-2010 00:07:57
ECMWF_FILE	MISSING	1	11-OCT-2010 00:07:57
ECMWF_FILE	AUX_ECF_AXNECM20101010_174114_20101011_030000_20101011_150000	30	11-OCT-2010 03:29:09
ECMWF_FILE	AUX_ECA_AXNECM20101011_052114_20101010_210000_20101011_090000	44	11-OCT-2010 05:09:46
ECMWF_FILE	AUX_ECF_AXNECM20101011_060147_20101011_150000_20101012_030000	58	11-OCT-2010 20:55:40
ECMWF_FILE	AUX_ECA_AXNECM20101012_052113_20101011_210000_20101012_090000	66	11-OCT-2010 22:06:03
OPTIONAL_ECMWF_FILE	MISSING	1	11-OCT-2010 00:07:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101010_223551_000057382093_00387_45030_1236.N1	1	11-OCT-2010 00:07:57
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20101008_092113_20101007_192405_20101017_205016	3	11-OCT-2010 00:26:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101011_015226_000041442093_00389_45032_1238.N1	17	11-OCT-2010 01:58:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101011_030649_000060572093_00390_45033_1239.N1	30	11-OCT-2010 03:29:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101011_045305_000057382093_00391_45034_1240.N1	44	11-OCT-2010 05:09:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101011_204927_000041442093_00401_45044_1241.N1	58	11-OCT-2010 20:55:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101011_220350_000057382093_00401_45044_1242.N1	66	11-OCT-2010 22:06:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101011_234447_000057382093_00402_45045_1243.N1	80	11-OCT-2010 23:46:39





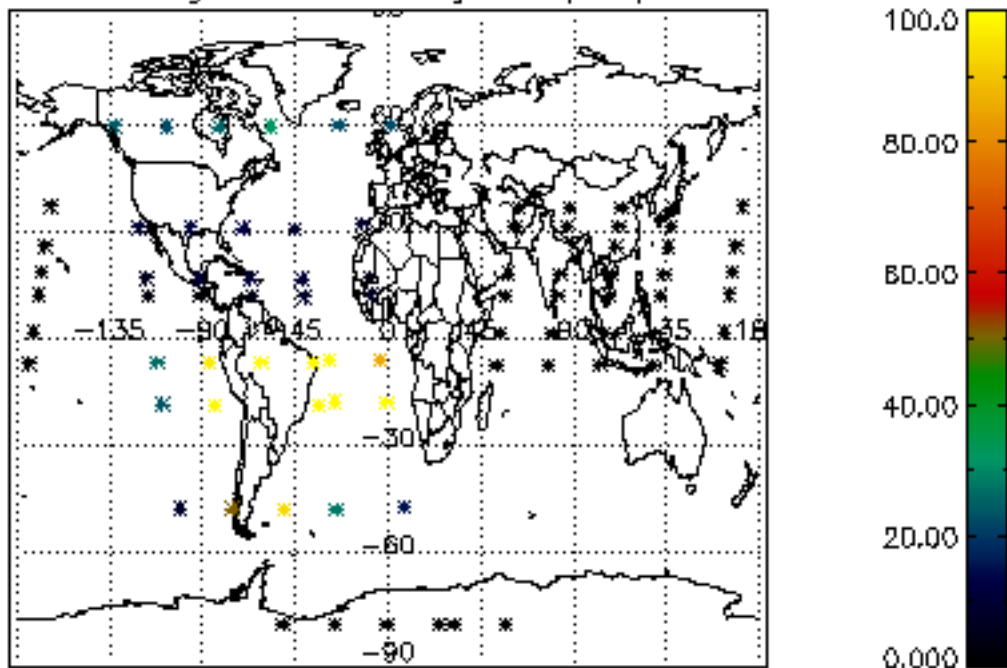




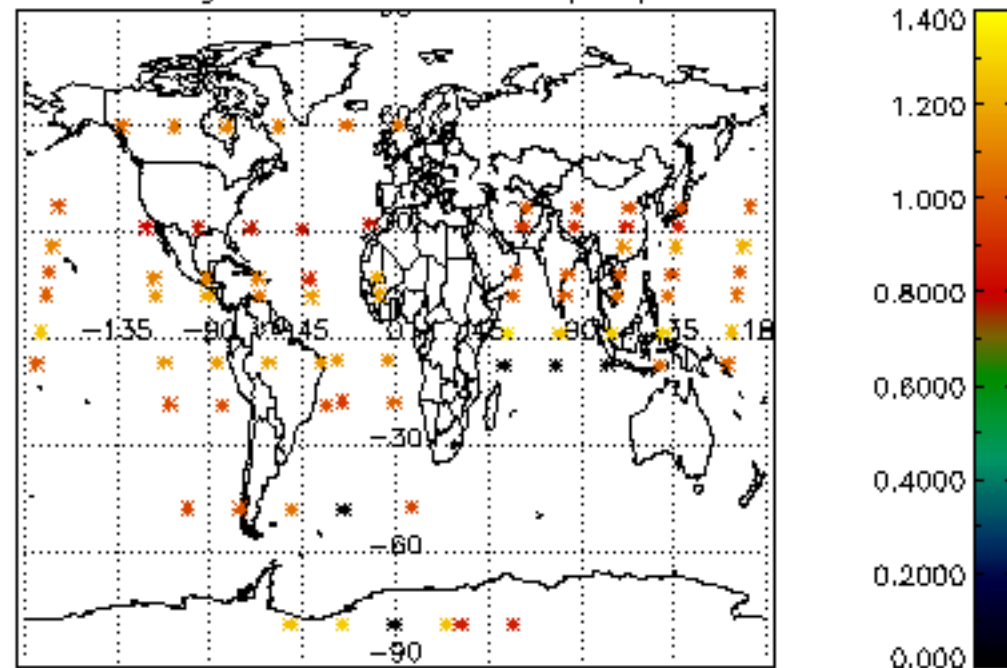




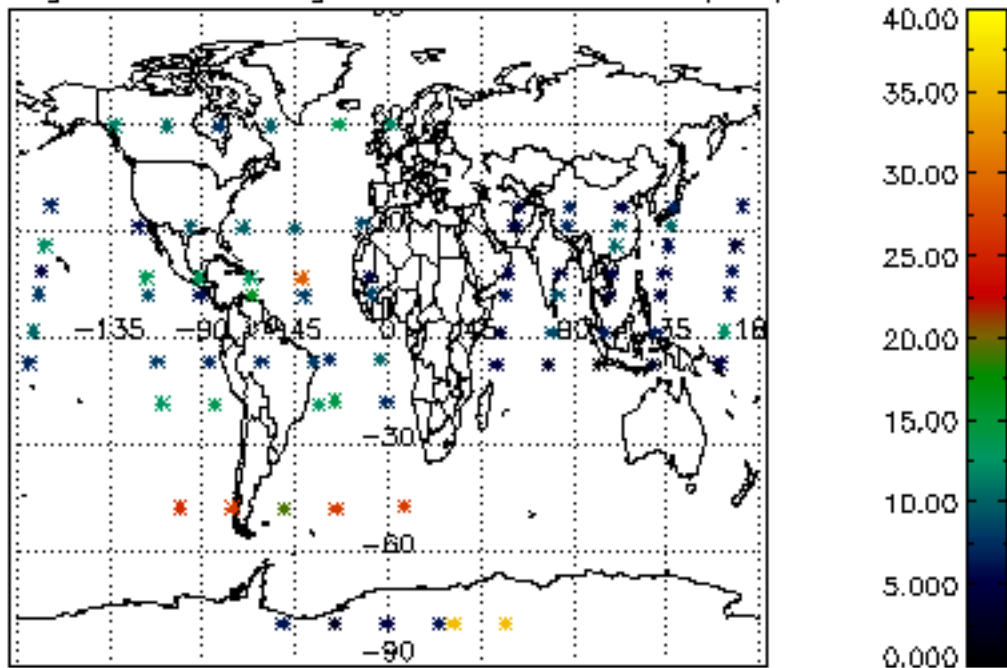
Percentage of cosmic ray hits per profile



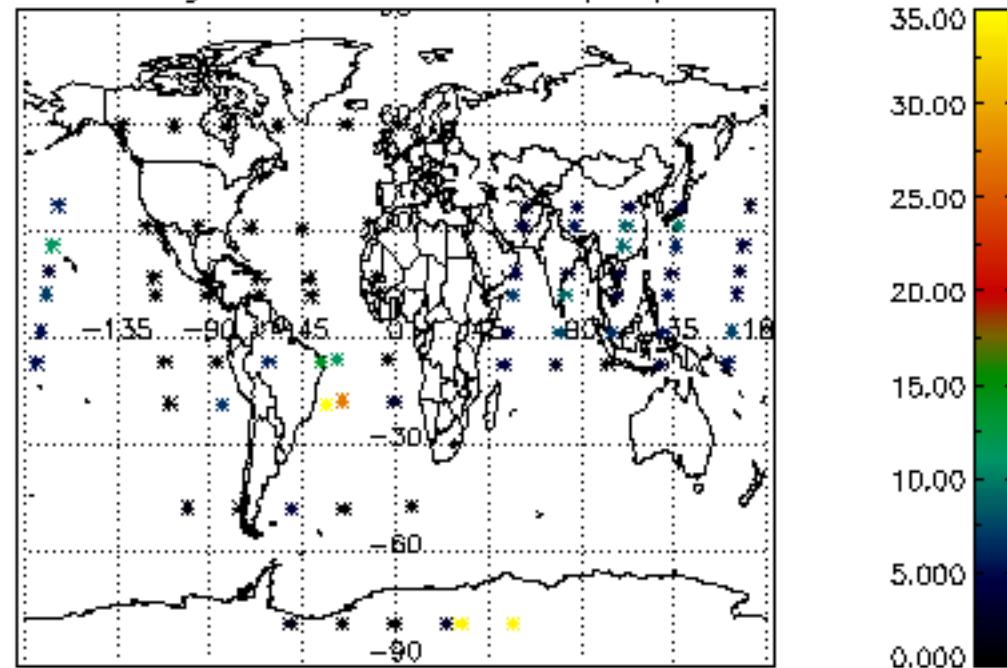
Percentage of datation errors per profile



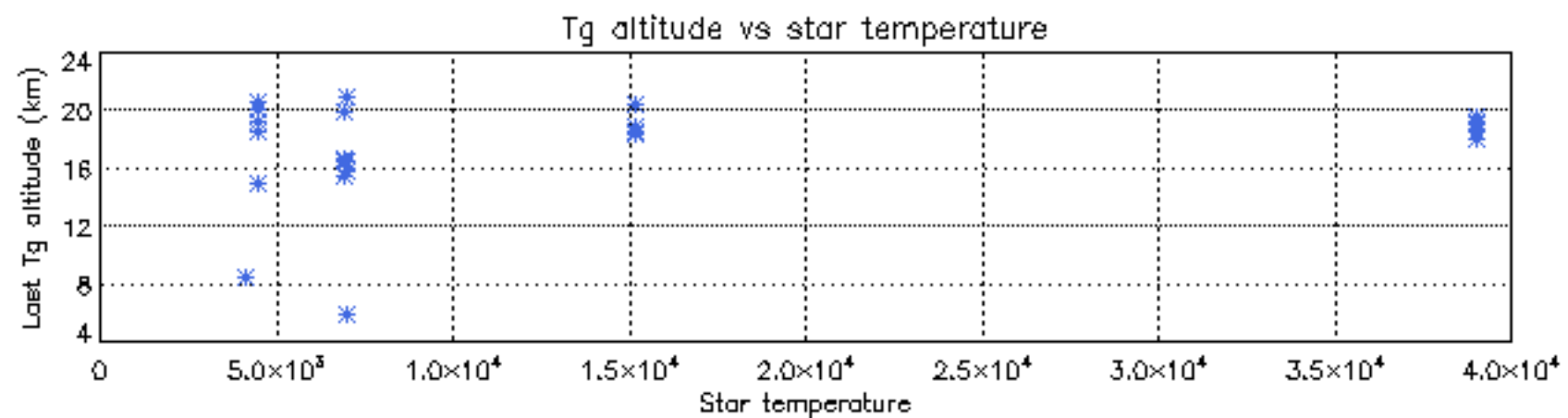
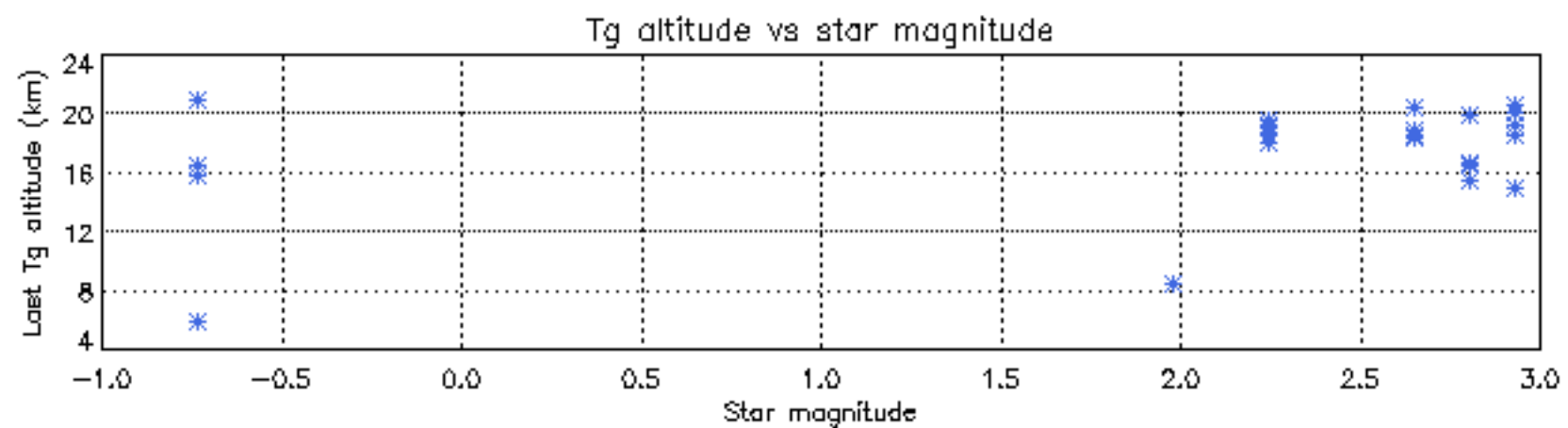
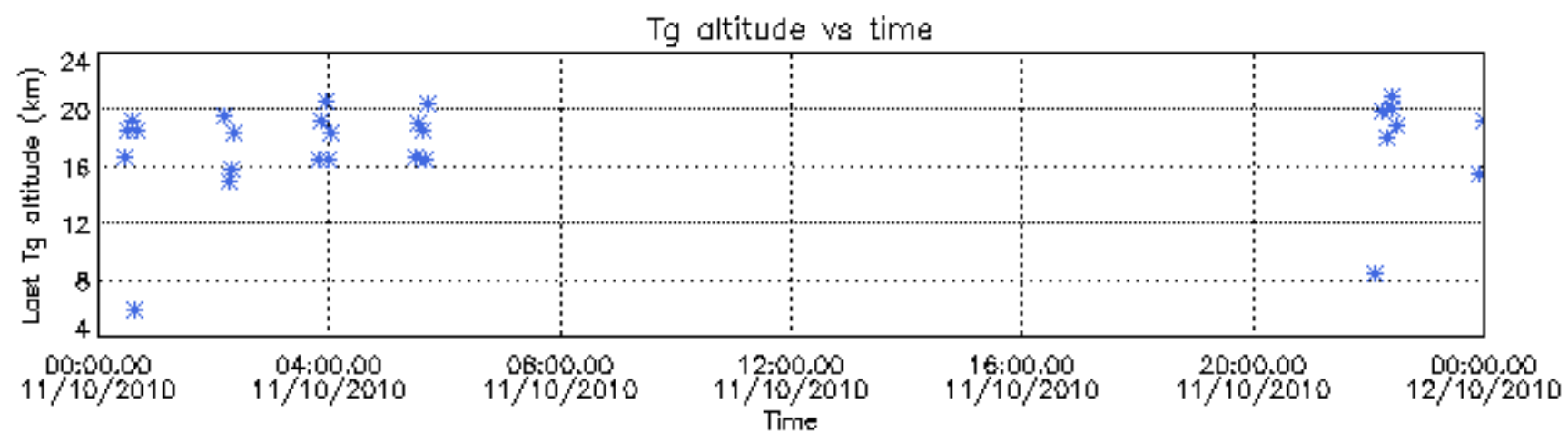
Percentage of star falling outside central band per profile



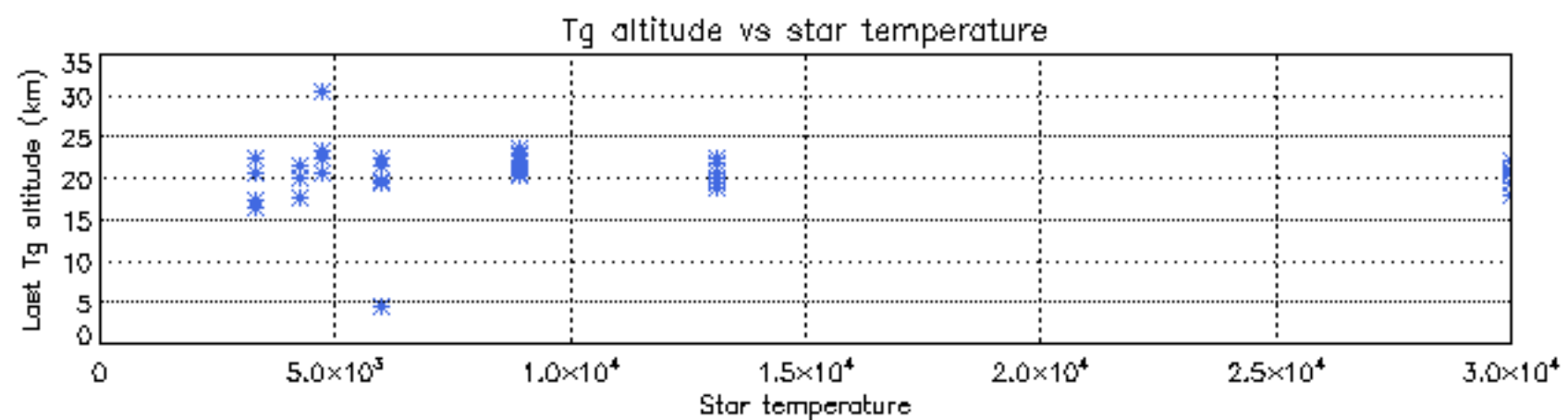
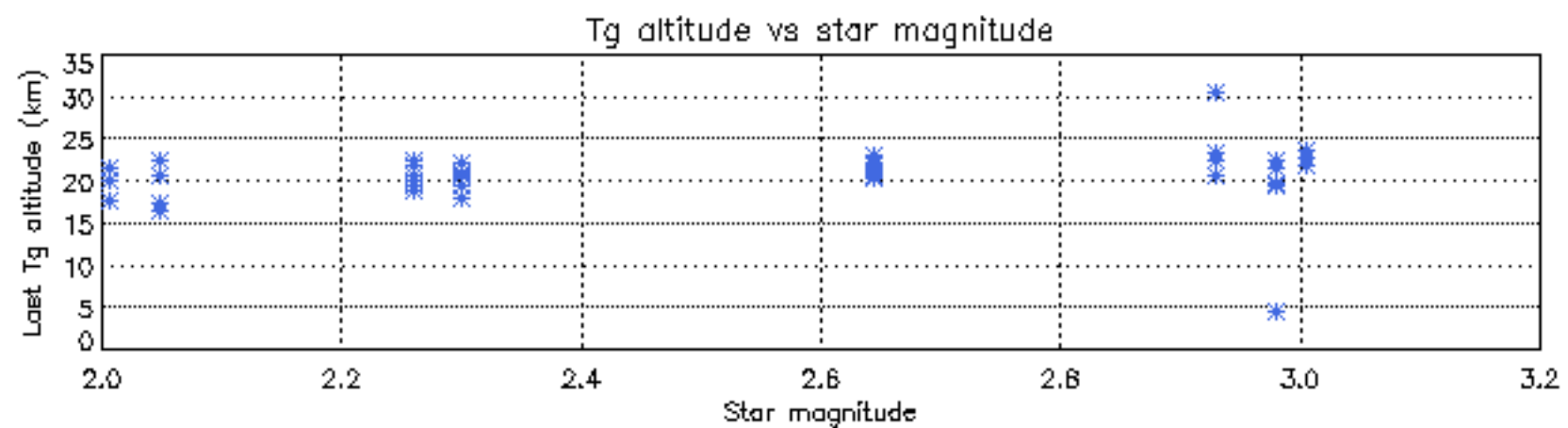
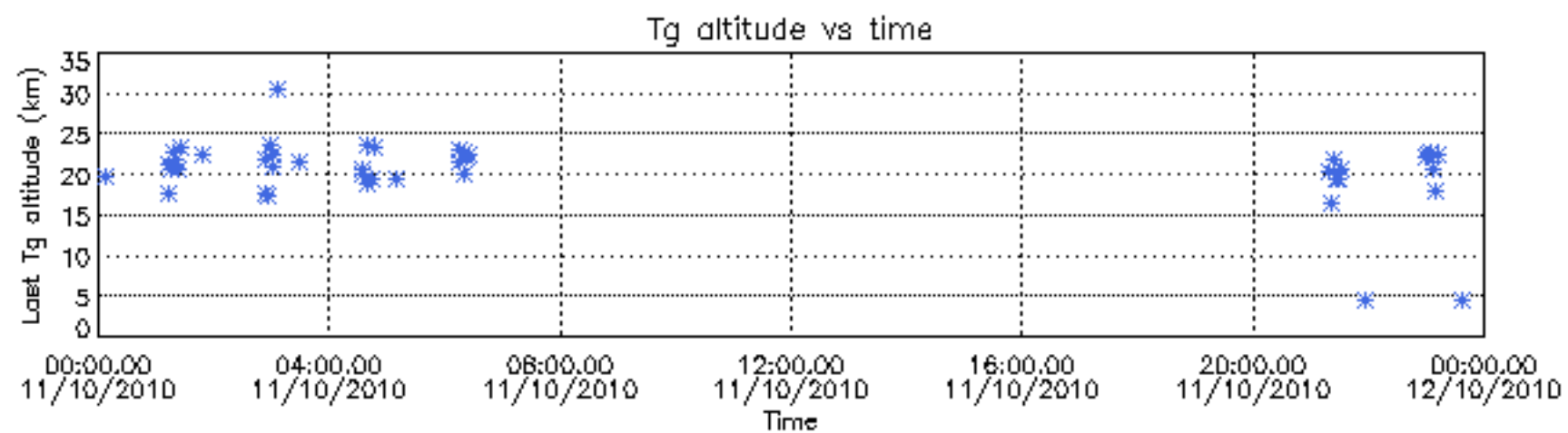
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

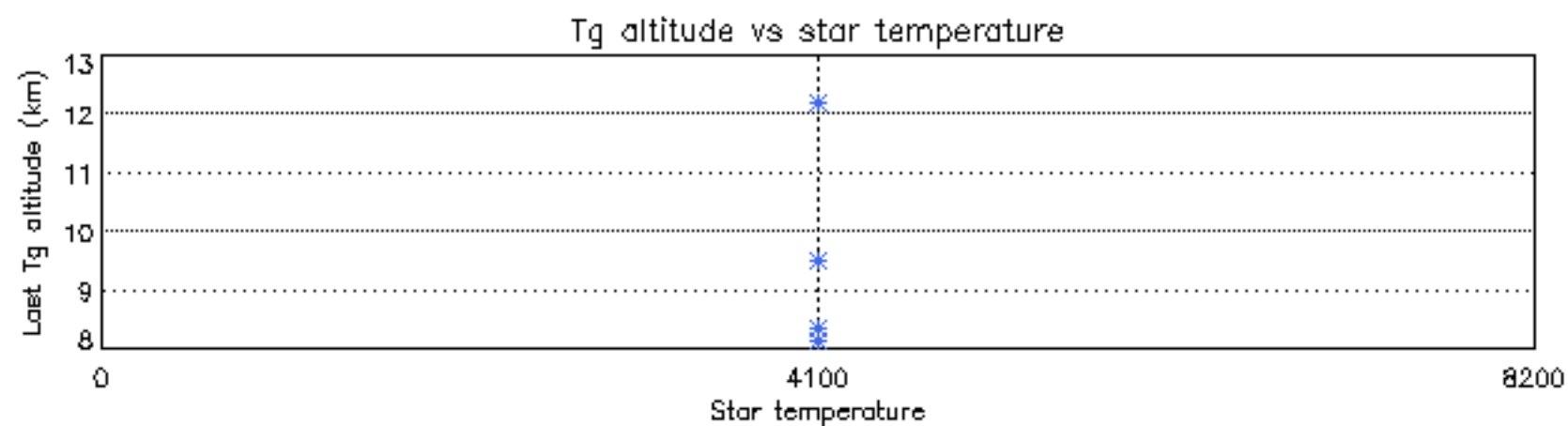
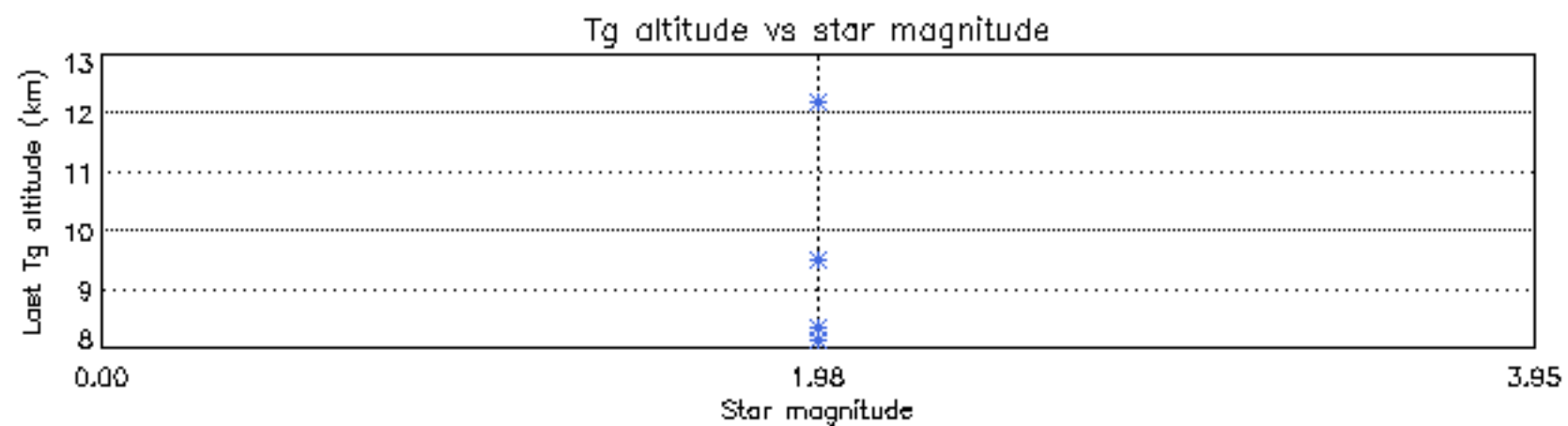
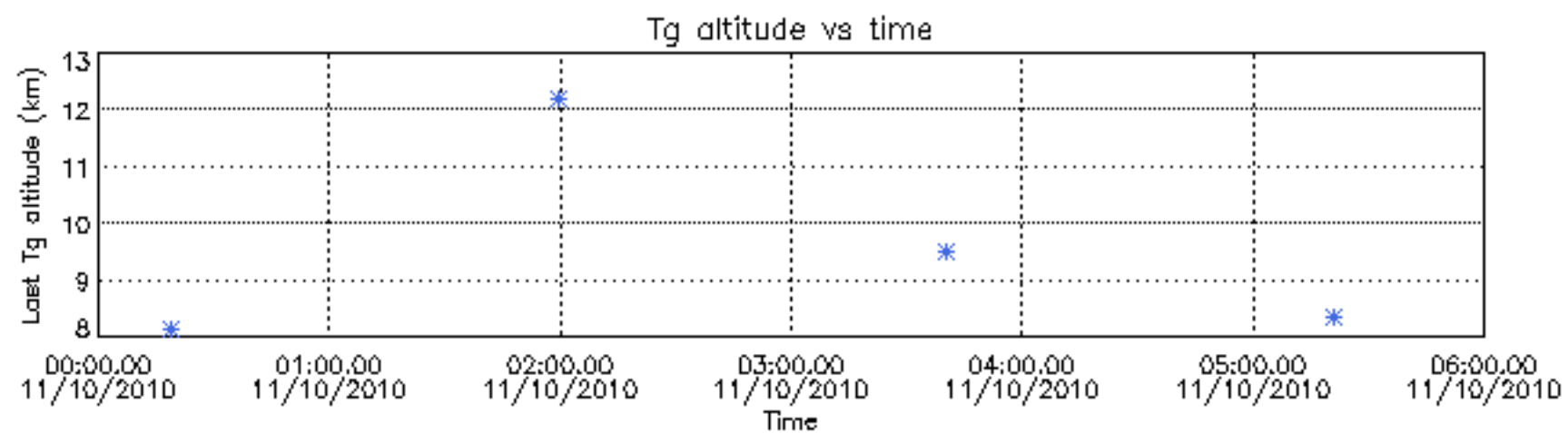


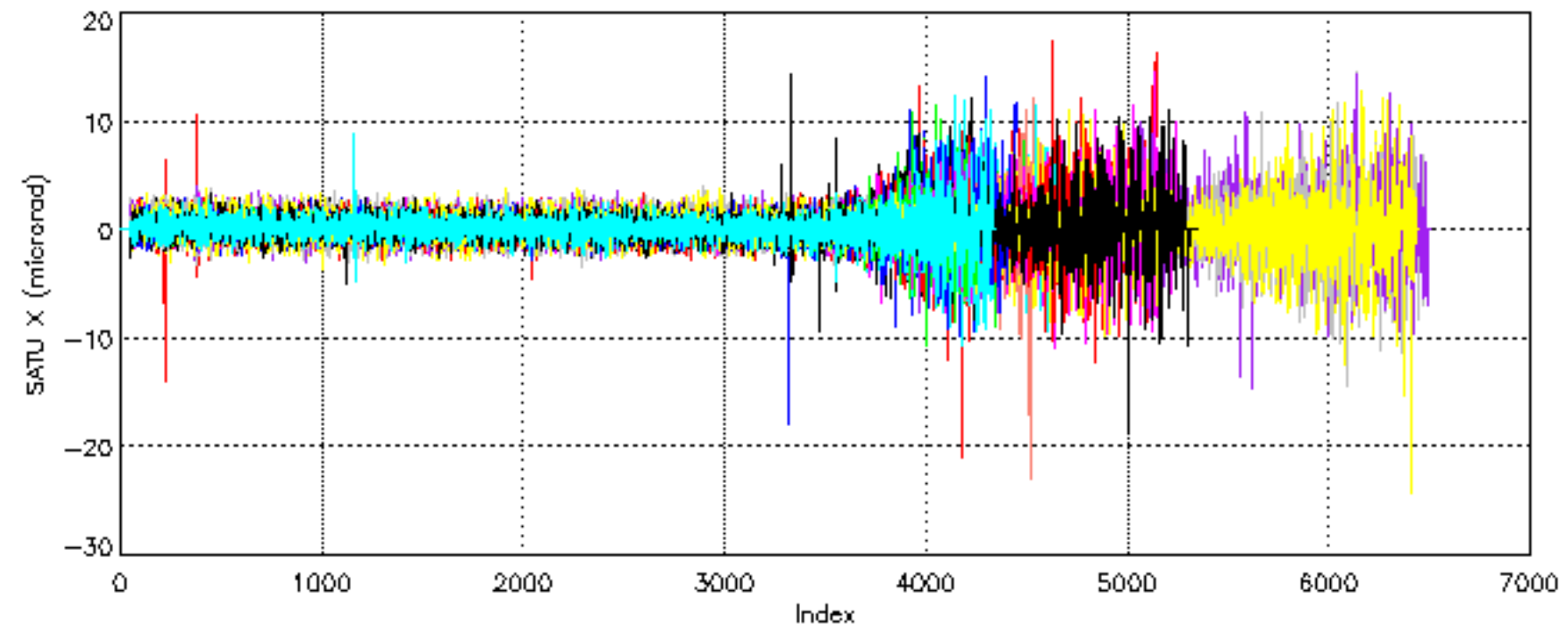
Tangent altitude at which the star is lost

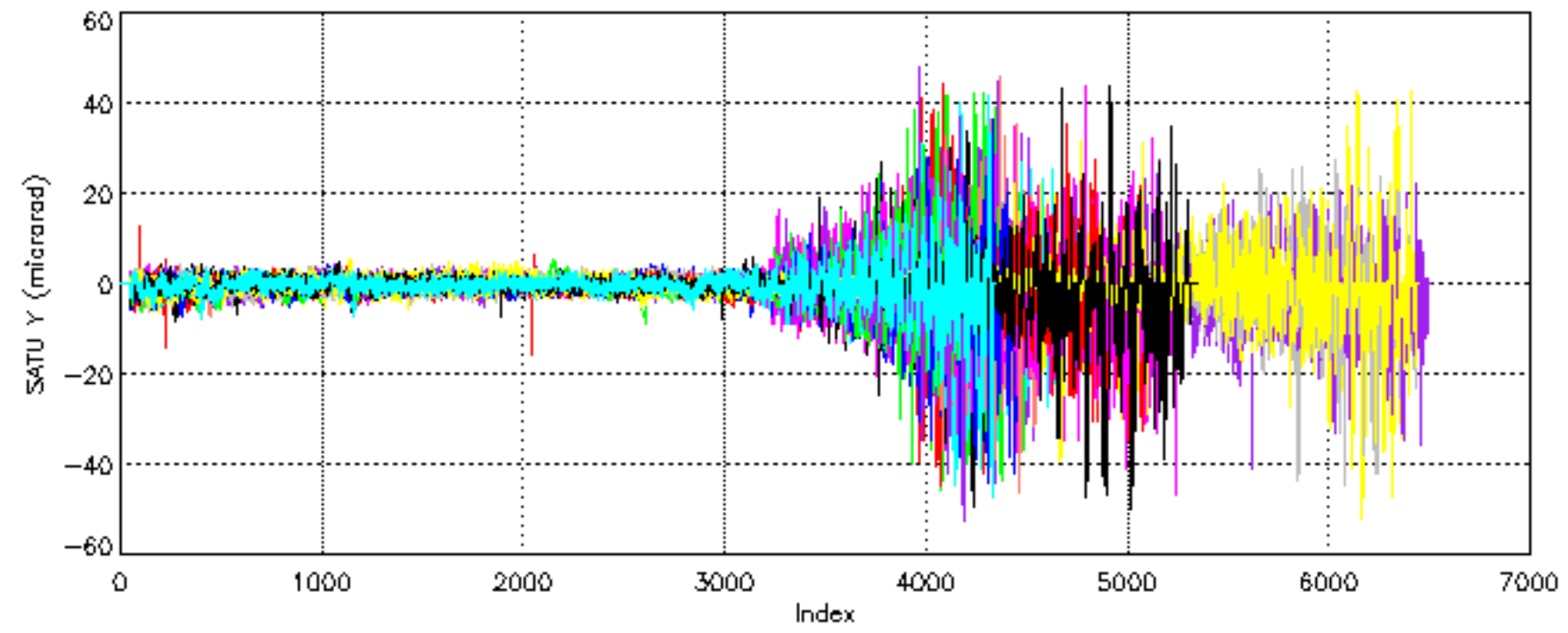


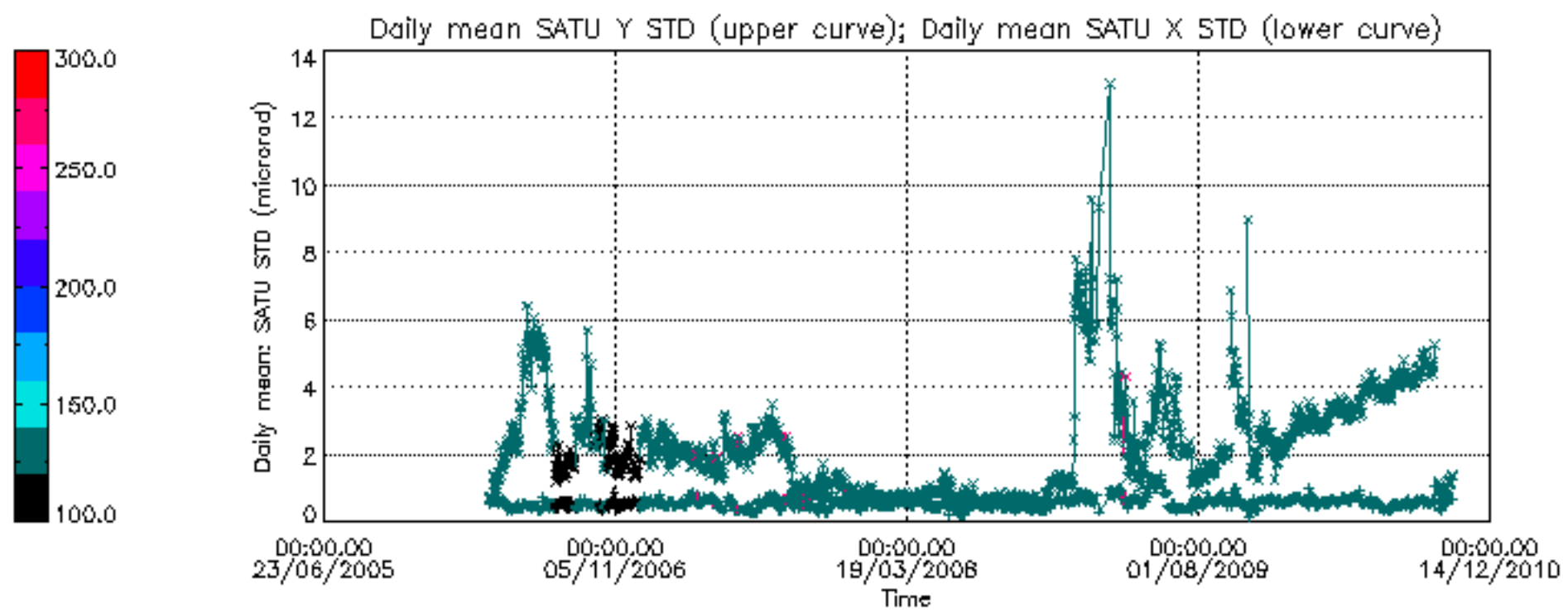


Tangent altitude at which the star is lost











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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_003829_000051292093_00245_44888_0965.N1
 1; -452.2; 01-OCT-2010 00:38:29; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44888
 2; -204.7; 01-OCT-2010 00:42:36; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44888
 3; -44.1; 01-OCT-2010 00:45:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44888
 4; 168.4; 01-OCT-2010 00:48:49; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;44889
 5; 300.4; 01-OCT-2010 00:51:01; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44889
 6; 912.7; 01-OCT-2010 01:01:14; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44889
 7; 1556.6; 01-OCT-2010 01:11:57; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;44889
 8; 2185.8; 01-OCT-2010 01:22:27; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44889
 9; 2435.7; 01-OCT-2010 01:26:37; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44889
10; 2662.3; 01-OCT-2010 01:30:23; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;44889
11; 2951.5; 01-OCT-2010 01:35:12; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44889
12; 3032.9; 01-OCT-2010 01:36:34; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44889
13; 4512.1; 01-OCT-2010 02:01:13; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44889
14; 4600.3; 01-OCT-2010 02:02:41; Bright; 76.5; 17; 78Bet Gem ; 1.16; 4500;occ; 153; 0;44889
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 1; -875.0; 01-OCT-2010 02:12:02; Dark ; 38.0; 8; 10Alp CMi ; 0.40; 6500;occ; 76; 0;44889
 2; -451.6; 01-OCT-2010 02:19:05; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;44889
 3; -203.5; 01-OCT-2010 02:23:13; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44889
 4; -43.4; 01-OCT-2010 02:25:53; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44889
 5; 169.1; 01-OCT-2010 02:29:26; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;44890
 6; 302.0; 01-OCT-2010 02:31:39; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44890
 7; 913.7; 01-OCT-2010 02:41:50; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44890
 8; 1557.0; 01-OCT-2010 02:52:34; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44890
 9; 2185.6; 01-OCT-2010 03:03:02; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44890
10; 2435.4; 01-OCT-2010 03:07:12; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44890
11; 2661.7; 01-OCT-2010 03:10:58; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44890
12; 2951.6; 01-OCT-2010 03:15:48; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44890
13; 3032.4; 01-OCT-2010 03:17:09; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44890
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 1;-1523.7; 01-OCT-2010 03:41:49; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 0;44890
 2;-1435.2; 01-OCT-2010 03:43:18; Bright; 73.0; 17; 78Bet Gem ; 1.16; 4500;occ; 146; 0;44890
 3; -874.0; 01-OCT-2010 03:52:39; Dark ; 30.0; 8; 10Alp CMi ; 0.40; 6500;occ; 60; 0;44890
 4; -450.8; 01-OCT-2010 03:59:42; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44890
 5; -202.1; 01-OCT-2010 04:03:51; Dark ; 65.0; 37; 25Del CMA ; 1.83; 5900;occ; 130; 0;44890
 6; -42.6; 01-OCT-2010 04:06:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44890
 7; 169.8; 01-OCT-2010 04:10:03; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;44891
 8; 303.6; 01-OCT-2010 04:12:16; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44891
 9; 914.5; 01-OCT-2010 04:22:27; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44891
10; 1557.3; 01-OCT-2010 04:33:10; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44891
11; 2185.6; 01-OCT-2010 04:43:38; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44891
12; 2435.5; 01-OCT-2010 04:47:48; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44891
13; 2661.0; 01-OCT-2010 04:51:34; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44891
14; 2951.5; 01-OCT-2010 04:56:24; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44891
15; 3032.0; 01-OCT-2010 04:57:45; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44891
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5; 2948.9; 01-OCT-2010 21:42:21; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44901
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6; 922.1; 01-OCT-2010 22:49:10; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44902
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4; 2644.7; 02-OCT-2010 21:05:40; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;44915
5; 2945.4; 02-OCT-2010 21:10:40; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44915

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13; 6371.3; 02-OCT-2010 15:25:22; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44911
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3; 2429.6; 02-OCT-2010 16:00:17; Bright; 41.0; 58; 21Alp And ; 2.07; 11000;occ; 82; 0;44912
4; 2646.9; 02-OCT-2010 16:03:54; Bright; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;44912
5; 2946.1; 02-OCT-2010 16:08:53; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44912
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7; 4606.9; 02-OCT-2010 16:36:34; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;44912
8; 5603.8; 02-OCT-2010 16:53:11; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;44912
9; 5862.1; 02-OCT-2010 16:57:29; Dark ; 64.0; 37; 25Del CMA ; 1.83; 5900;occ; 128; 0;44912
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3; 2428.9; 02-OCT-2010 17:40:52; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44913

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 7; 4607.3; 02-OCT-2010 18:17:10; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;44913  
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 11; 6138.8; 02-OCT-2010 18:42:42; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;44913  
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 13; 6374.6; 02-OCT-2010 18:46:37; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44913  
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 4; 2428.9; 02-OCT-2010 19:21:28; Bright; 41.0; 58; 21Alp And ; 2.07; 11000;occ; 82; 0;44914  
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 9; 2180.1; 03-OCT-2010 01:59:43; Bright; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;44918  
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9; 6971.1; 03-OCT-2010 05:00:09; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;44919
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5; 2636.1; 03-OCT-2010 20:33:54; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;44929
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 5; 232.5; 14-OCT-2010 00:41:13; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;45075
 6; 314.1; 14-OCT-2010 00:42:35; Dark ; 54.5; 2; Alp Car ;-0.74; 7000;occ; 109; 0;45075
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 9; 2366.5; 14-OCT-2010 01:16:47; Bright; 48.5; 105; 6Bet Ari ; 2.64; 8900;occ; 97; 0;45075
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11; 2674.3; 14-OCT-2010 01:21:55; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;45075
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 13; 2973.9; 14-OCT-2010 03:07:30; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;45076  
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 5; 108.5; 14-OCT-2010 04:00:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45077  
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 7; 315.9; 14-OCT-2010 04:03:48; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;45077  
 8; 584.9; 14-OCT-2010 04:08:17; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45077  
 9; 1030.9; 14-OCT-2010 04:15:43; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;45077  
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 4; 2665.3; 14-OCT-2010 21:28:57; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45087  
 5; 2775.4; 14-OCT-2010 21:30:47; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;45087  
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3; 2640.4; 17-OCT-2010 08:09:29; Bright; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;45122
4; 2753.3; 17-OCT-2010 08:11:22; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;45122
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7; 4639.0; 17-OCT-2010 08:42:48; Bright; 50.0; 166; 17Eps Leo ; 2.98; 6000;occ; 100; 0;45122
8; 4836.7; 17-OCT-2010 08:46:05; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;45122
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4; 2965.7; 21-OCT-2010 14:31:25; Bright; 37.0; 110; 37Del Cas ; 2.68; 8900;occ; 74; 0;45183
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6; 4655.9; 21-OCT-2010 14:59:35; Bright; 46.5; 166; 17Eps Leo ; 2.98; 6000;occ; 93; 0;45183
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8; 5335.9; 21-OCT-2010 15:10:55; Dark ; 55.0; 48; 30Alp Hya ; 1.98; 4100;occ; 110; 0;45183
9; 5921.1; 21-OCT-2010 15:20:40; Dark ; 59.0; 132; 15Rho Pup ; 2.80; 6900;occ; 118; 0;45183

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