

# GOMOS Daily Report 07-NOV-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	11NOV2009 09:51:55
Data source version	GOMOS/5.00L03
Start time of products	07NOV2009 00:02:00
Stop time of products	07NOV2009 23:53:00
Store outputs in DB	Yes
Nb of level 1b prods	82
Nb of prods with errors	0

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

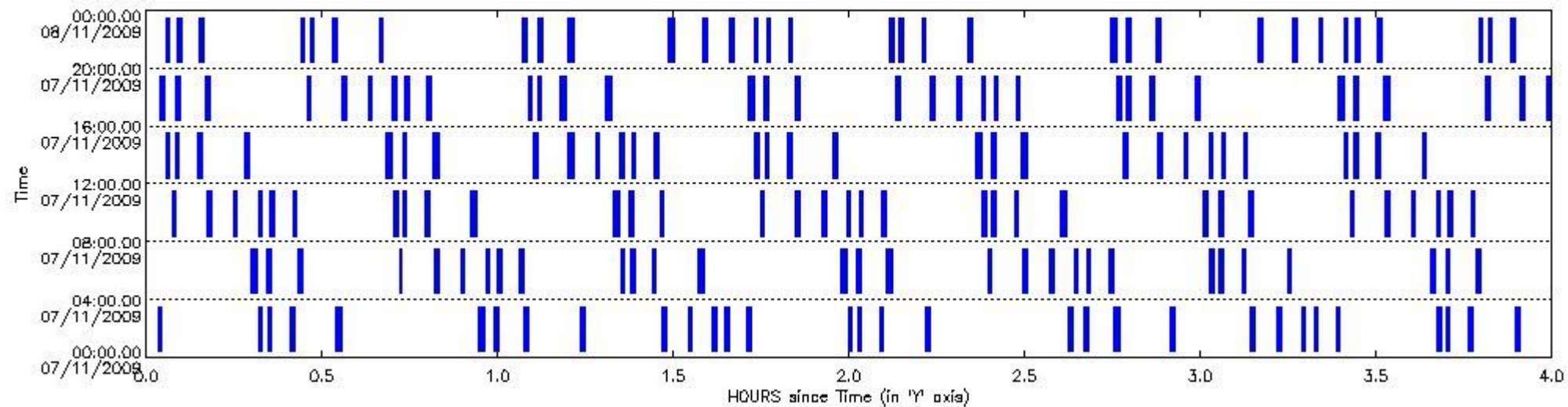
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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.

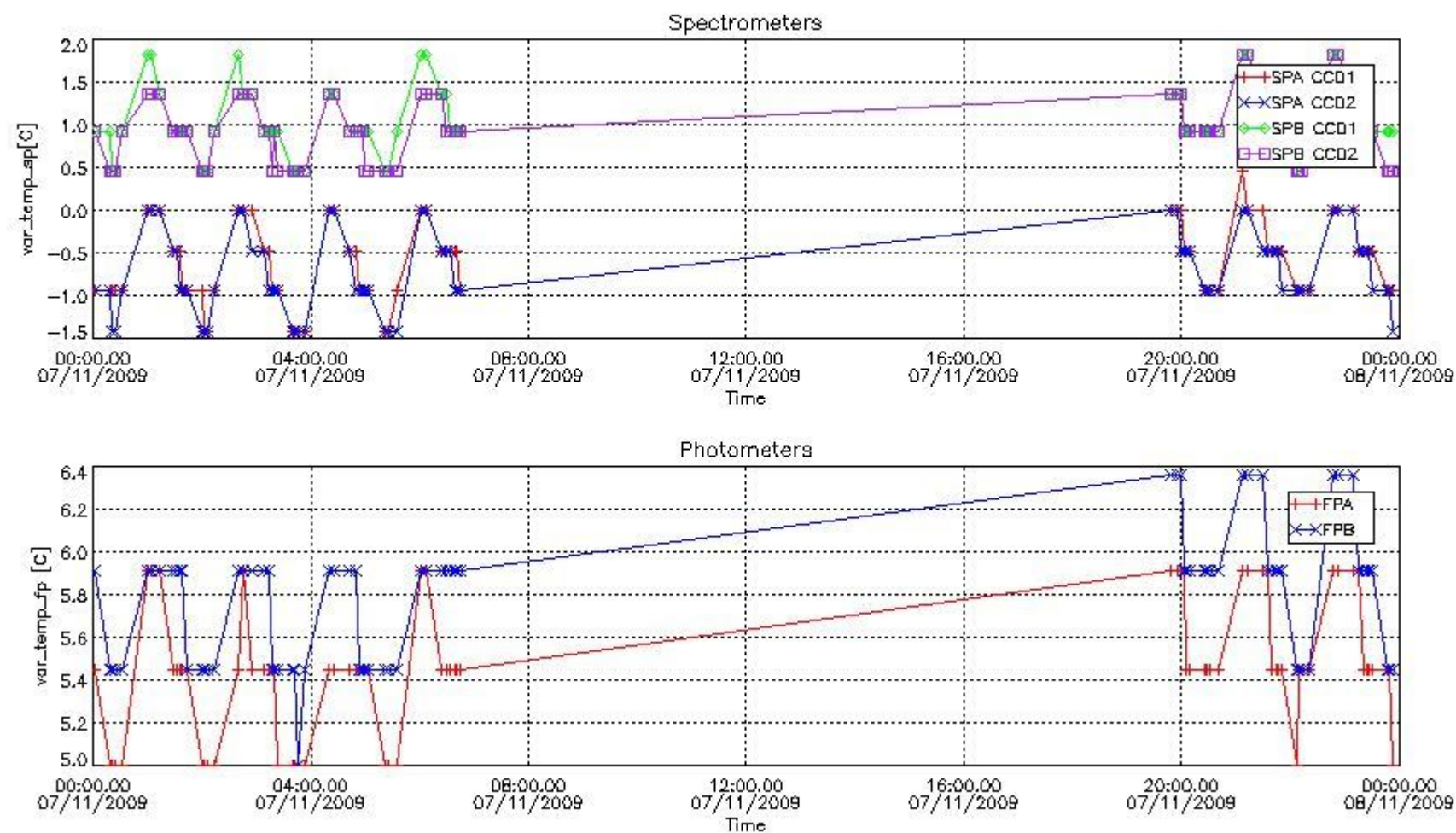
### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091107_000200_000000432084_00059_40193_2869.N1	07-NOV-2009 00:02:00	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	40193	No
2	GOM_TRA_1PNPDE20091107_001911_000000402084_00059_40193_2870.N1	07-NOV-2009 00:19:11	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	40193	No
3	GOM_TRA_1PNPDE20091107_002049_000000382084_00059_40193_2871.N1	07-NOV-2009 00:20:49	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	40193	No
4	GOM_TRA_1PNPDE20091107_002438_000000432084_00059_40193_2872.N1	07-NOV-2009 00:24:38	Bright	43.000	174	52Psi UMa	3.0040	4400.0	86	40193	No
5	GOM_TRA_1PNPDE20091107_003225_000000612084_00059_40193_2873.N1	07-NOV-2009 00:32:25	Bright	60.500	96	68Del Leo	2.5600	9300.0	121	40193	No
6	GOM_TRA_1PNPDE20091107_005923_000000472084_00060_40194_2869.N1	07-NOV-2009 00:59:23	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40194	No
7	GOM_TRA_1PNPDE20091107_010434_000000472084_00060_40194_2870.N1	07-NOV-2009 01:04:34	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	40194	No
8	GOM_TRA_1PNPDE20091107_011412_000000402084_00060_40194_2871.N1	07-NOV-2009 01:14:12	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	40194	No
9	GOM_TRA_1PNPDE20091107_012754_000000512084_00060_40194_2872.N1	07-NOV-2009 01:27:54	Tw_i_and_stray	51.000	94	92Alp Cet	2.5260	3100.0	102	40194	No
10	GOM_TRA_1PNPDE20091107_013228_000000392084_00060_40194_2873.N1	07-NOV-2009 01:32:28	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40194	No
11	GOM_TRA_1PNPDE20091107_013642_000000382084_00060_40194_2874.N1	07-NOV-2009 01:36:42	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40194	No
12	GOM_TRA_1PNPDE20091107_013846_000000402084_00060_40194_2875.N1	07-NOV-2009 01:38:46	Bright	39.500	73	57Gam1And	2.2600	13100.	79	40194	No

13	GOM_TRA_1PNPDE20091107_014235_000000432084_00060_40194_2876.N1	07-NOV-2009 01:42:35	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	40194	No
14	GOM_TRA_1PNPDE20091107_015947_000000452084_00060_40194_2877.N1	07-NOV-2009 01:59:47	Bright	45.000	36	50Alp UMa	1.8000	6300.0	90	40194	No
15	GOM_TRA_1PNPDE20091107_020124_000000422084_00060_40194_2878.N1	07-NOV-2009 02:01:24	Bright	42.000	82	48Bet UMa	2.3650	10600.	84	40194	No
16	GOM_TRA_1PNPDE20091107_020514_000000422084_00060_40194_2879.N1	07-NOV-2009 02:05:14	Bright	42.000	174	52Psi UMa	3.0040	4400.0	84	40194	No
17	GOM_TRA_1PNPDE20091107_021302_000000422084_00060_40194_2880.N1	07-NOV-2009 02:13:02	Bright	41.500	96	68Del Leo	2.5600	9300.0	83	40194	No
18	GOM_TRA_1PNPDE20091107_024000_000000492084_00061_40195_2873.N1	07-NOV-2009 02:40:00	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	40195	No
19	GOM_TRA_1PNPDE20091107_024511_000000592084_00061_40195_2874.N1	07-NOV-2009 02:45:11	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	40195	No
20	GOM_TRA_1PNPDE20091107_025452_000000382084_00061_40195_2875.N1	07-NOV-2009 02:54:52	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	40195	No
21	GOM_TRA_1PNPDE20091107_030830_000000502084_00061_40195_2876.N1	07-NOV-2009 03:08:30	Tw_i_and_stray	49.500	94	92Alp Cet	2.5260	3100.0	99	40195	No
22	GOM_TRA_1PNPDE20091107_031304_000000392084_00061_40195_2877.N1	07-NOV-2009 03:13:04	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40195	No
23	GOM_TRA_1PNPDE20091107_031718_000000382084_00061_40195_2878.N1	07-NOV-2009 03:17:18	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	40195	No
24	GOM_TRA_1PNPDE20091107_031921_000000382084_00061_40195_2879.N1	07-NOV-2009 03:19:21	Bright	38.000	73	57Gam1And	2.2600	13100.	76	40195	No
25	GOM_TRA_1PNPDE20091107_032310_000000432084_00061_40195_2880.N1	07-NOV-2009 03:23:10	Bright	43.000	35	33Alp Per	1.7950	6250.0	86	40195	No
26	GOM_TRA_1PNPDE20091107_034022_000000422084_00061_40195_2879.N1	07-NOV-2009 03:40:22	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	40195	No
27	GOM_TRA_1PNPDE20091107_034200_000000382084_00061_40195_2880.N1	07-NOV-2009 03:42:00	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	40195	No
28	GOM_TRA_1PNPDE20091107_034549_000000422084_00061_40195_2881.N1	07-NOV-2009 03:45:49	Bright	41.500	174	52Psi UMa	3.0040	4400.0	83	40195	No
29	GOM_TRA_1PNPDE20091107_035338_000000612084_00061_40195_2882.N1	07-NOV-2009 03:53:38	Bright	61.000	96	68Del Leo	2.5600	9300.0	122	40195	No
30	GOM_TRA_1PNPDE20091107_042037_000000482084_00062_40196_2883.N1	07-NOV-2009 04:20:37	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	40196	No
31	GOM_TRA_1PNPDE20091107_042548_000000482084_00062_40196_2884.N1	07-NOV-2009 04:25:48	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40196	No
32	GOM_TRA_1PNPDE20091107_044311_000000282084_00062_40196_2885.N1	07-NOV-2009 04:43:11	Straylight	28.000	165	34Gam Eri	2.9500	3200.0	56	40196	No
33	GOM_TRA_1PNPDE20091107_044906_000000502084_00062_40196_2886.N1	07-NOV-2009 04:49:06	Tw_i_and_stray	50.000	94	92Alp Cet	2.5260	3100.0	100	40196	No
34	GOM_TRA_1PNPDE20091107_045340_000000392084_00062_40196_2887.N1	07-NOV-2009 04:53:40	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40196	No
35	GOM_TRA_1PNPDE20091107_045754_000000382084_00062_40196_2888.N1	07-NOV-2009 04:57:54	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40196	No
36	GOM_TRA_1PNPDE20091107_045957_000000382084_00062_40196_2889.N1	07-NOV-2009 04:59:57	Bright	37.500	73	57Gam1And	2.2600	13100.	75	40196	No
37	GOM_TRA_1PNPDE20091107_050346_000000432084_00062_40196_2890.N1	07-NOV-2009 05:03:46	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	40196	No
38	GOM_TRA_1PNPDE20091107_052058_000000442084_00062_40196_2887.N1	07-NOV-2009 05:20:58	Bright	43.500	36	50Alp UMa	1.8000	6300.0	87	40196	No
39	GOM_TRA_1PNPDE20091107_052236_000000512084_00062_40196_2888.N1	07-NOV-2009 05:22:36	Bright	51.000	82	48Bet UMa	2.3650	10600.	102	40196	No
40	GOM_TRA_1PNPDE20091107_052626_000000382084_00062_40196_2889.N1	07-NOV-2009 05:26:26	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	40196	No
41	GOM_TRA_1PNPDE20091107_053415_000000552084_00062_40196_2890.N1	07-NOV-2009 05:34:15	Bright	55.000	96	68Del Leo	2.5600	9300.0	110	40196	No
42	GOM_TRA_1PNPDE20091107_060115_000000462084_00063_40197_2891.N1	07-NOV-2009 06:01:15	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40197	No
43	GOM_TRA_1PNPDE20091107_060624_000000532084_00063_40197_2892.N1	07-NOV-2009 06:06:24	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	40197	No
44	GOM_TRA_1PNPDE20091107_062347_000000282084_00063_40197_2893.N1	07-NOV-2009 06:23:47	Straylight	28.000	165	34Gam Eri	2.9500	3200.0	56	40197	No
45	GOM_TRA_1PNPDE20091107_062942_000000522084_00063_40197_2894.N1	07-NOV-2009 06:29:42	Tw_i_and_stray	51.500	94	92Alp Cet	2.5260	3100.0	103	40197	No
46	GOM_TRA_1PNPDE20091107_063416_000000392084_00063_40197_2895.N1	07-NOV-2009 06:34:16	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40197	No
47	GOM_TRA_1PNPDE20091107_063830_000000372084_00063_40197_2896.N1	07-NOV-2009 06:38:30	Bright	36.500	173	4Bet Tri	3.0040	8900.0	73	40197	No
48	GOM_TRA_1PNPDE20091107_064033_000000392084_00063_40197_2897.N1	07-NOV-2009 06:40:33	Bright	39.000	73	57Gam1And	2.2600	13100.	78	40197	No
49	GOM_TRA_1PNPDE20091107_064421_000000432084_00063_40197_2898.N1	07-NOV-2009 06:44:21	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	40197	No
50	GOM_TRA_1PNPDE20091107_194834_000000522084_00071_40205_2927.N1	07-NOV-2009 19:48:34	Straylight	52.000	165	34Gam Eri	2.9500	3200.0	104	40205	No
51	GOM_TRA_1PNPDE20091107_195428_000000502084_00071_40205_2928.N1	07-NOV-2009 19:54:28	Tw_i_and_stray	50.000	94	92Alp Cet	2.5260	3100.0	100	40205	No
52	GOM_TRA_1PNPDE20091107_195903_000000372084_00071_40205_2929.N1	07-NOV-2009 19:59:03	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	40205	No
53	GOM_TRA_1PNPDE20091107_200316_000000382084_00071_40205_2930.N1	07-NOV-2009 20:03:16	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40205	No
54	GOM_TRA_1PNPDE20091107_200519_000000392084_00071_40205_2931.N1	07-NOV-2009 20:05:19	Bright	38.500	73	57Gam1And	2.2600	13100.	77	40205	No
55	GOM_TRA_1PNPDE20091107_200905_000000432084_00071_40205_2932.N1	07-NOV-2009 20:09:05	Bright	43.000	35	33Alp Per	1.7950	6250.0	86	40205	No
56	GOM_TRA_1PNPDE20091107_202621_000000392084_00071_40205_2933.N1	07-NOV-2009 20:26:21	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	40205	No
57	GOM_TRA_1PNPDE20091107_202758_000000432084_00071_40205_2934.N1	07-NOV-2009 20:27:58	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	40205	No
58	GOM_TRA_1PNPDE20091107_203149_000000402084_00071_40205_2935.N1	07-NOV-2009 20:31:49	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	40205	No
59	GOM_TRA_1PNPDE20091107_203940_000000402084_00071_40205_2936.N1	07-NOV-2009 20:39:40	Bright	40.000	96	68Del Leo	2.5600	9300.0	80	40205	No
60	GOM_TRA_1PNPDE20091107_210646_000000472084_00072_40206_2937.N1	07-NOV-2009 21:06:46	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40206	No
61	GOM_TRA_1PNPDE20091107_211154_000000612084_00072_40206_2938.N1	07-NOV-2009 21:11:54	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	40206	No
62	GOM_TRA_1PNPDE20091107_212910_000000582084_00072_40206_2939.N1	07-NOV-2009 21:29:10	Straylight	58.000	165	34Gam Eri	2.9500	3200.0	116	40206	No
63	GOM_TRA_1PNPDE20091107_213503_000000522084_00072_40206_2940.N1	07-NOV-2009 21:35:03	Tw_i_and_stray	51.500	94	92Alp Cet	2.5260	3100.0	103	40206	No
64	GOM_TRA_1PNPDE20091107_213939_000000382084_00072_40206_2941.N1	07-NOV-2009 21:39:39	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	40206	No
65	GOM_TRA_1PNPDE20091107_214352_000000372084_00072_40206_2942.N1	07-NOV-2009 21:43:52	Bright	37.000	173	4Bet Tri	3.0040	8900.0	74	40206	No
66	GOM_TRA_1PNPDE20091107_214555_000000392084_00072_40206_2943.N1	07-NOV-2009 21:45:55	Bright	38.500	73	57Gam1And	2.2600	13100.	77	40206	No
67	GOM_TRA_1PNPDE20091107_214940_000000432084_00072_40206_2944.N1	07-NOV-2009 21:49:40	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	40206	No
68	GOM_TRA_1PNPDE20091107_220656_000000412084_00072_40206_2945.N1	07-NOV-2009 22:06:56	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	40206	No
69	GOM_TRA_1PNPDE20091107_220834_000000402084_00072_40206_2946.N1	07-NOV-2009 22:08:34	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	40206	No
70	GOM_TRA_1PNPDE20091107_221224_000000402084_00072_40206_2947.N1	07-NOV-2009 22:12:24	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	40206	No
71	GOM_TRA_1PNPDE20091107_222016_000000402084_00072_40206_2948.N1	07-NOV-2009 22:20:16	Bright	40.000	96	68Del Leo	2.5600	9300.0	80	40206	No

72	GOM_TRA_1PNPDE20091107_224723_000000462084_00073_40207_2940.N1	07-NOV-2009 22:47:23	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	40207	No
73	GOM_TRA_1PNPDE20091107_225231_000000462084_00073_40207_2941.N1	07-NOV-2009 22:52:31	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	40207	No
74	GOM_TRA_1PNPDE20091107_230946_000000572084_00073_40207_2942.N1	07-NOV-2009 23:09:46	Straylight	56.500	165	34Gam Eri	2.9500	3200.0	113	40207	No
75	GOM_TRA_1PNPDE20091107_231539_000000522084_00073_40207_2943.N1	07-NOV-2009 23:15:39	Twilight_stray	51.500	94	92Alp Cet	2.5260	3100.0	103	40207	No
76	GOM_TRA_1PNPDE20091107_232015_000000372084_00073_40207_2944.N1	07-NOV-2009 23:20:15	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	40207	No
77	GOM_TRA_1PNPDE20091107_232427_000000372084_00073_40207_2945.N1	07-NOV-2009 23:24:27	Bright	36.500	173	4Bet Tri	3.0040	8900.0	73	40207	No
78	GOM_TRA_1PNPDE20091107_232631_000000362084_00073_40207_2946.N1	07-NOV-2009 23:26:31	Bright	36.000	73	57Gam1And	2.2600	13100.	72	40207	No
79	GOM_TRA_1PNPDE20091107_233015_000000432084_00073_40207_2947.N1	07-NOV-2009 23:30:15	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	40207	No
80	GOM_TRA_1PNPDE20091107_234732_000000432084_00073_40207_2948.N1	07-NOV-2009 23:47:32	Bright	43.000	36	50Alp UMa	1.8000	6300.0	86	40207	No
81	GOM_TRA_1PNPDE20091107_234910_000000402084_00073_40207_2949.N1	07-NOV-2009 23:49:10	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	40207	No
82	GOM_TRA_1PNPDE20091107_235300_000000432084_00073_40207_2950.N1	07-NOV-2009 23:53:00	Bright	42.500	174	52Psi UMa	3.0040	4400.0	85	40207	No

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



### 4. Overview of dark signal processing per product

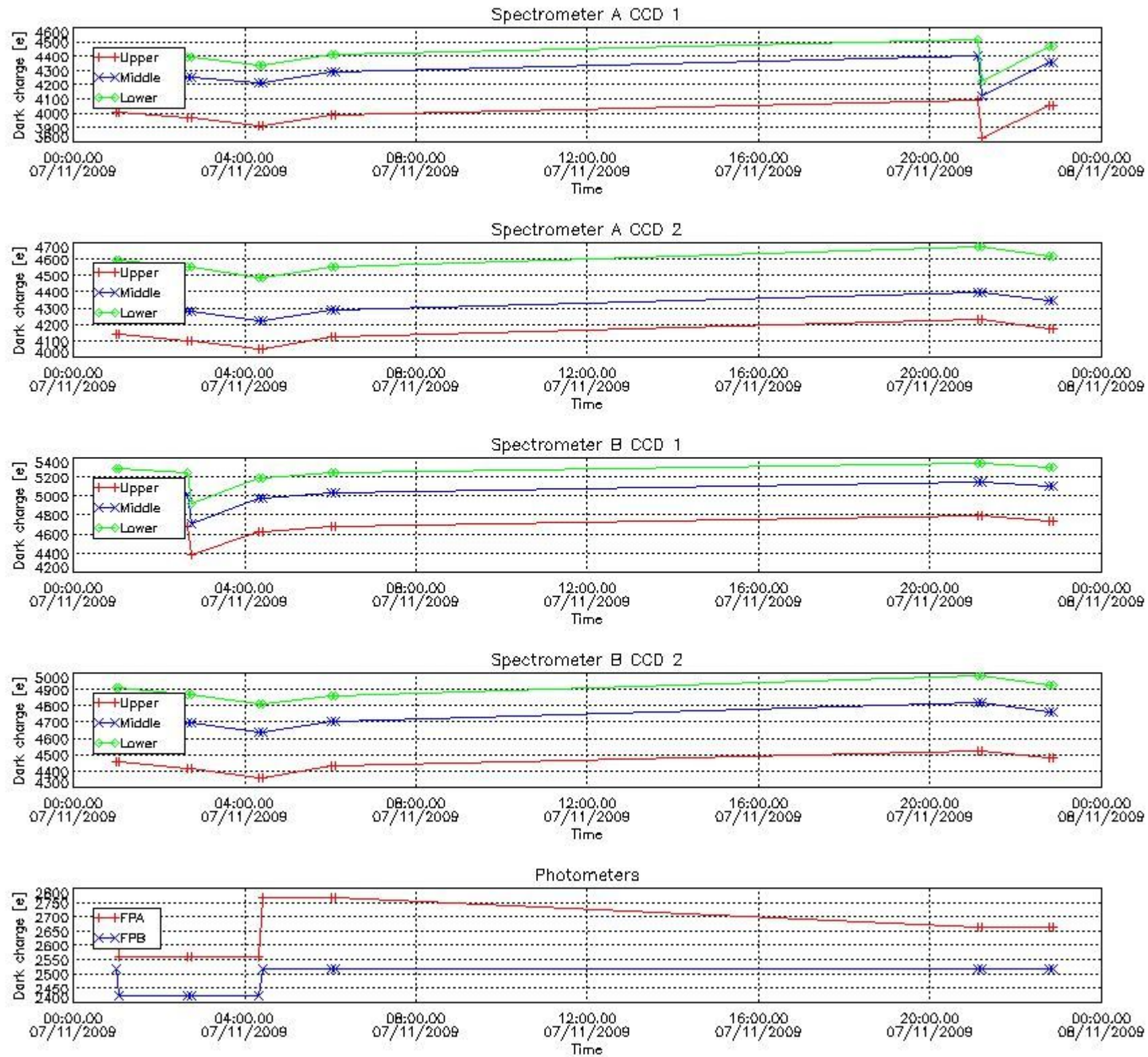
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091107_194834_000000522084_00071_40205_2927.N1	DC map used
GOM_TRA_1PNPDE20091107_195428_000000502084_00071_40205_2928.N1	DC map used
GOM_TRA_1PNPDE20091107_195903_000000372084_00071_40205_2929.N1	DC map used
GOM_TRA_1PNPDE20091107_200316_000000382084_00071_40205_2930.N1	DC map used
GOM_TRA_1PNPDE20091107_200519_000000392084_00071_40205_2931.N1	DC map used
GOM_TRA_1PNPDE20091107_200905_000000432084_00071_40205_2932.N1	DC map used
GOM_TRA_1PNPDE20091107_202621_000000392084_00071_40205_2933.N1	DC map used
GOM_TRA_1PNPDE20091107_202758_000000432084_00071_40205_2934.N1	DC map used
GOM_TRA_1PNPDE20091107_203149_000000402084_00071_40205_2935.N1	DC map used
GOM_TRA_1PNPDE20091107_203940_000000402084_00071_40205_2936.N1	DC map used

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



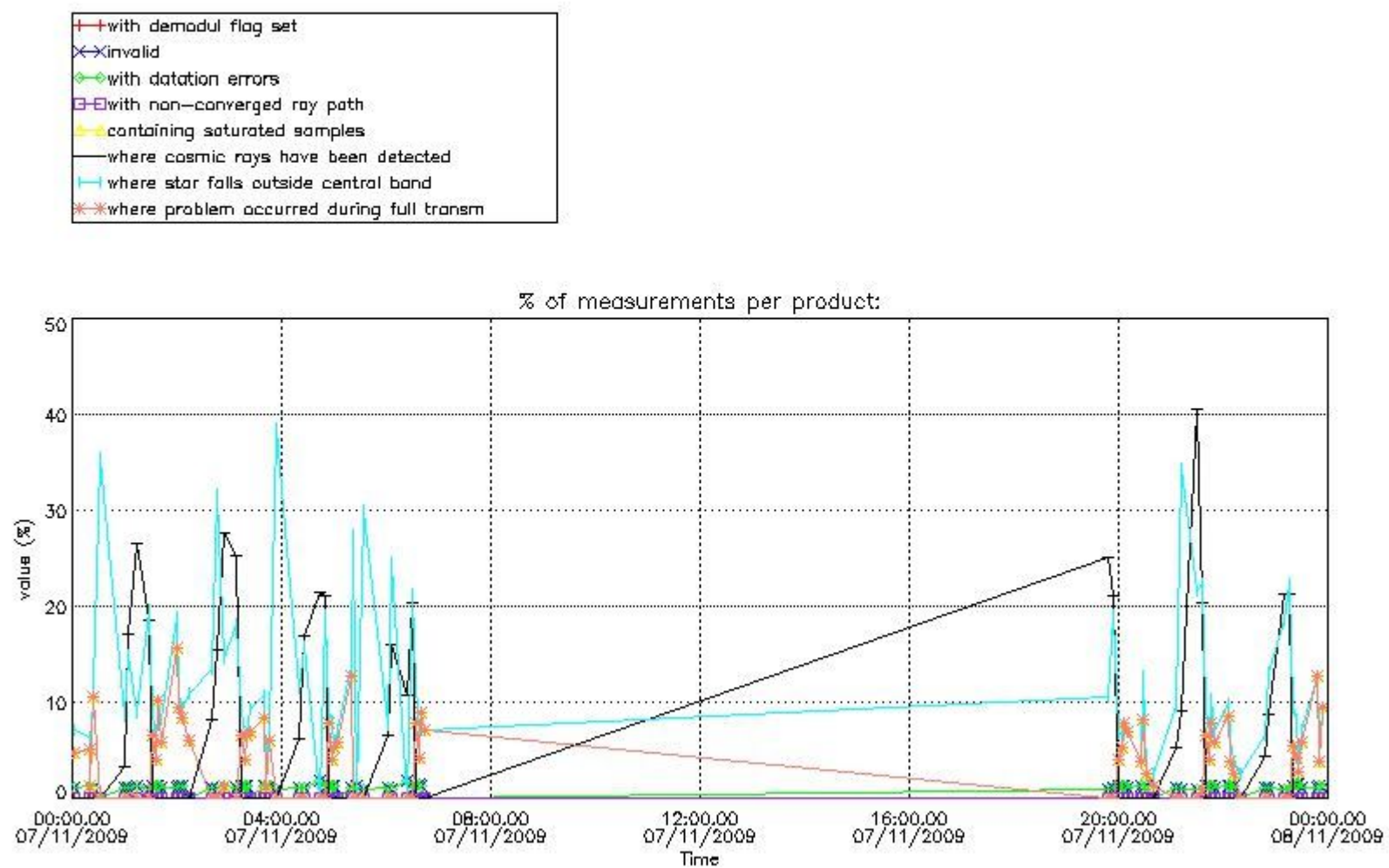
## 5. Demodulation flag and quality information monitoring

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.

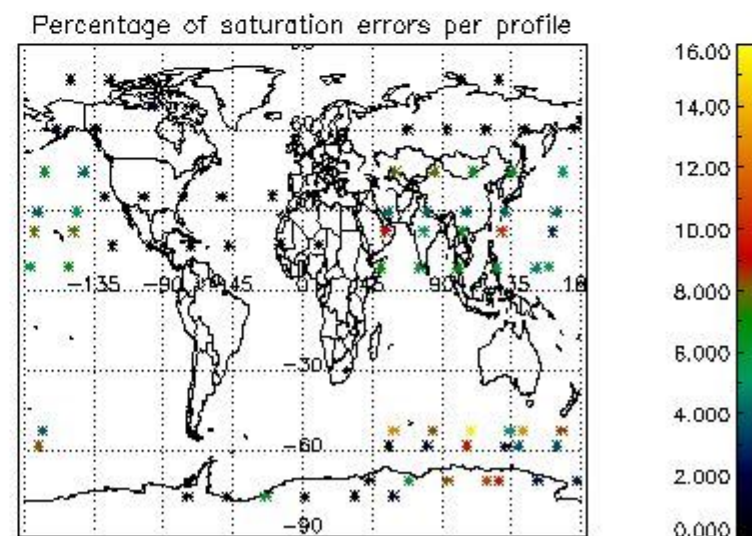
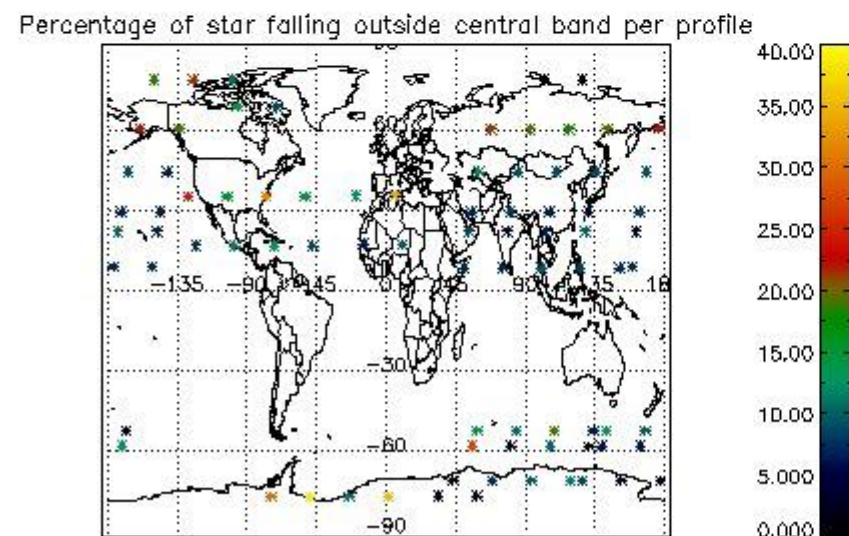
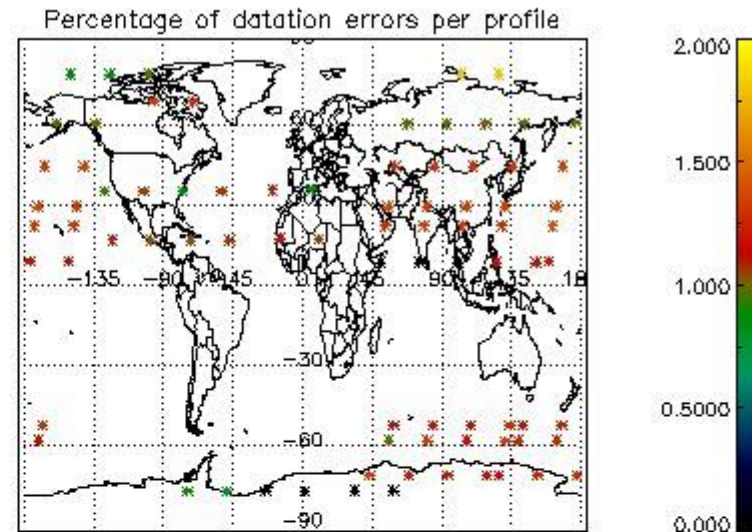
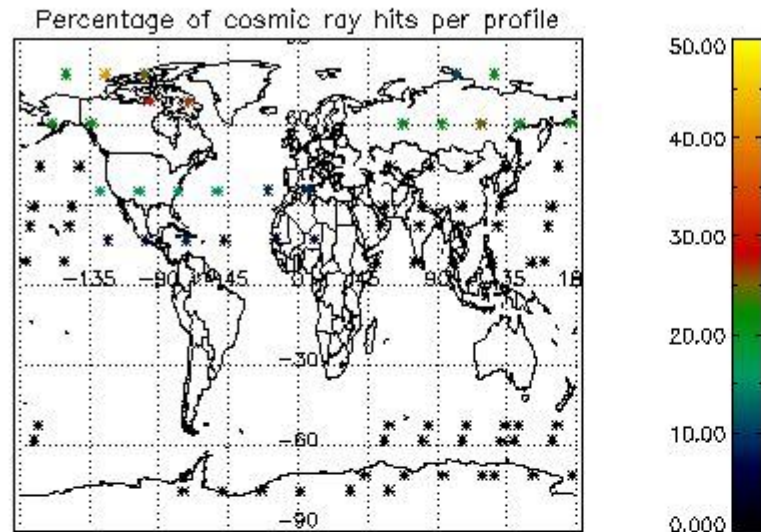
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.3902 %
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)

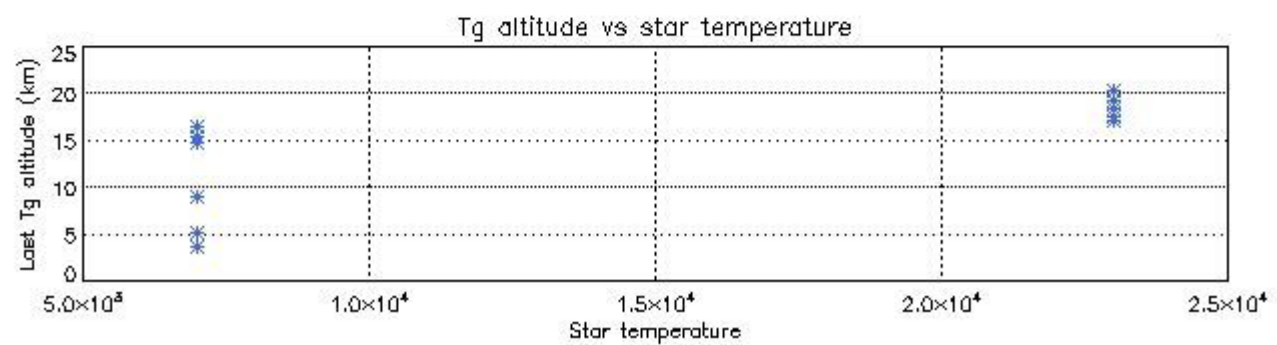
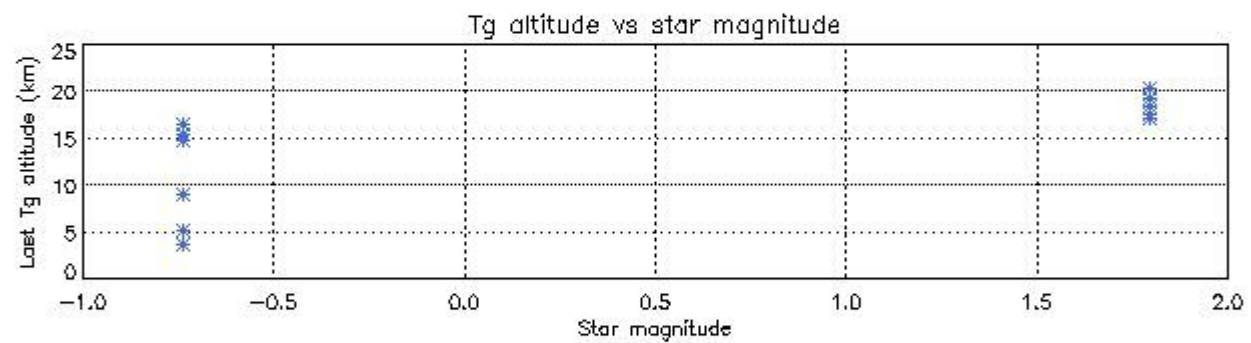
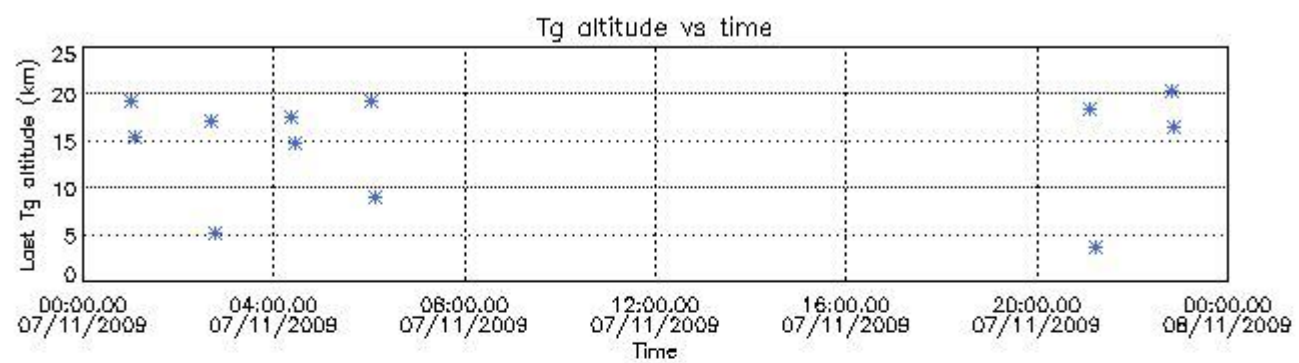
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.668	18.824	NaN
St. deviation:	5.6612	4.3868	NaN
Maximum:	20.277	26.711	NaN
Minimum:	3.5766	4.0092	NaN
Number of data:	12.000	56.000	NaN

### 6.2 Plot for DARK limb products

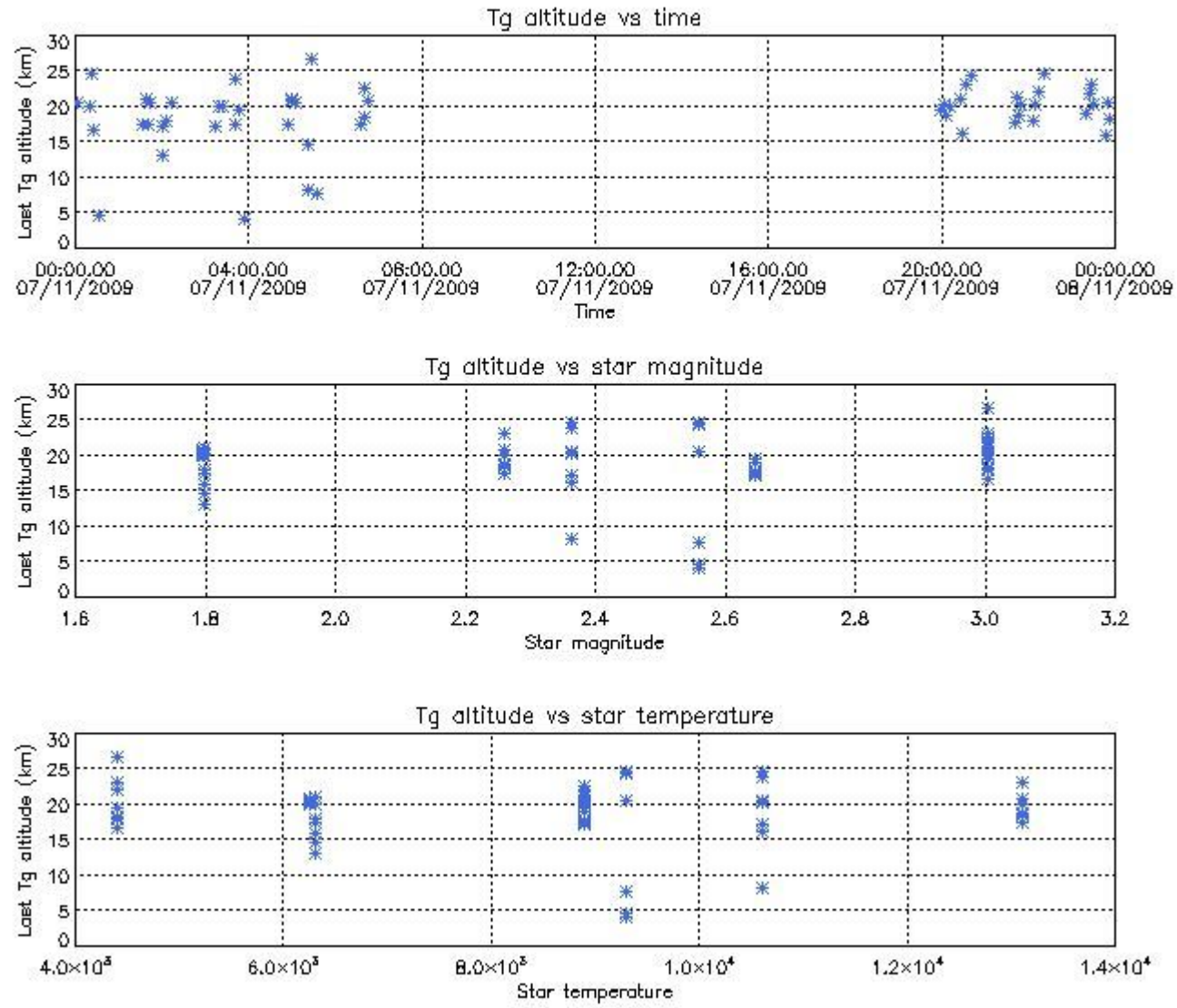


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

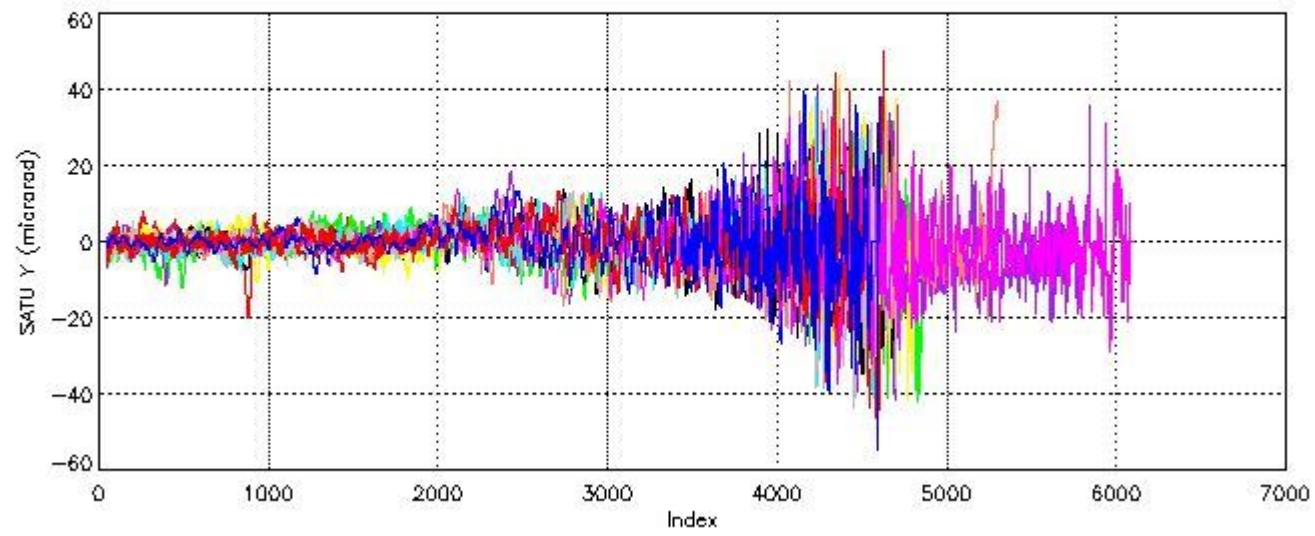
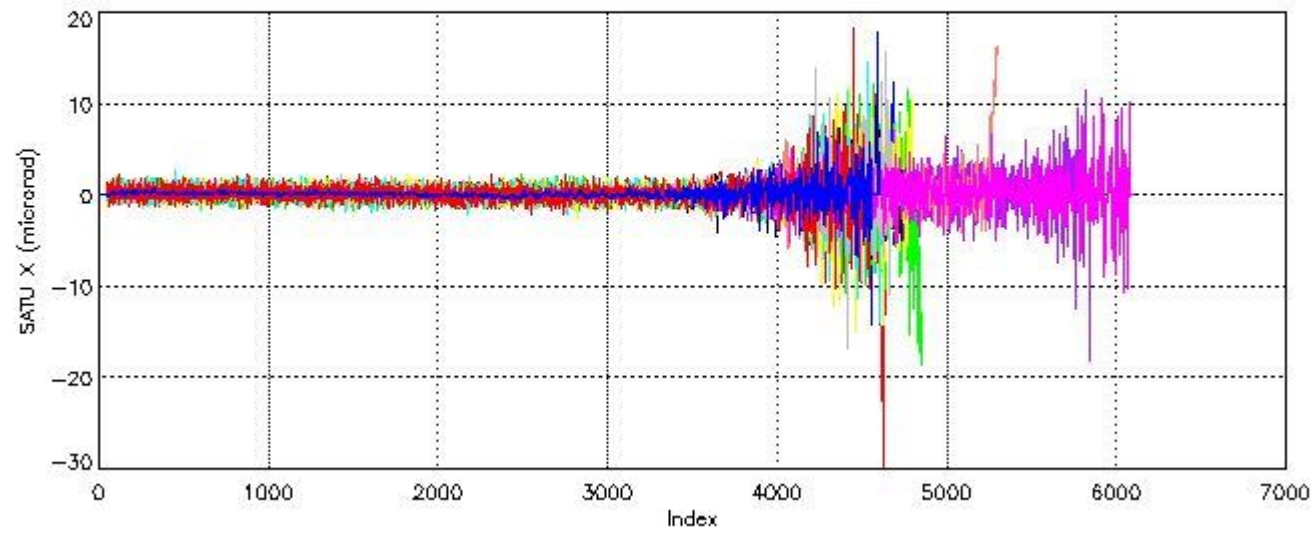


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.20883	-0.41452	0.17680	-0.31469
St. deviation:	0.34365	2.0523	0.84897	2.2698
Maximum:	2.6000	7.9000	5.7000	18.600
Minimum:	-1.7000	-20.200	-5.7000	-36.100

Number of data:	12550.	12550.	50800.	50800.
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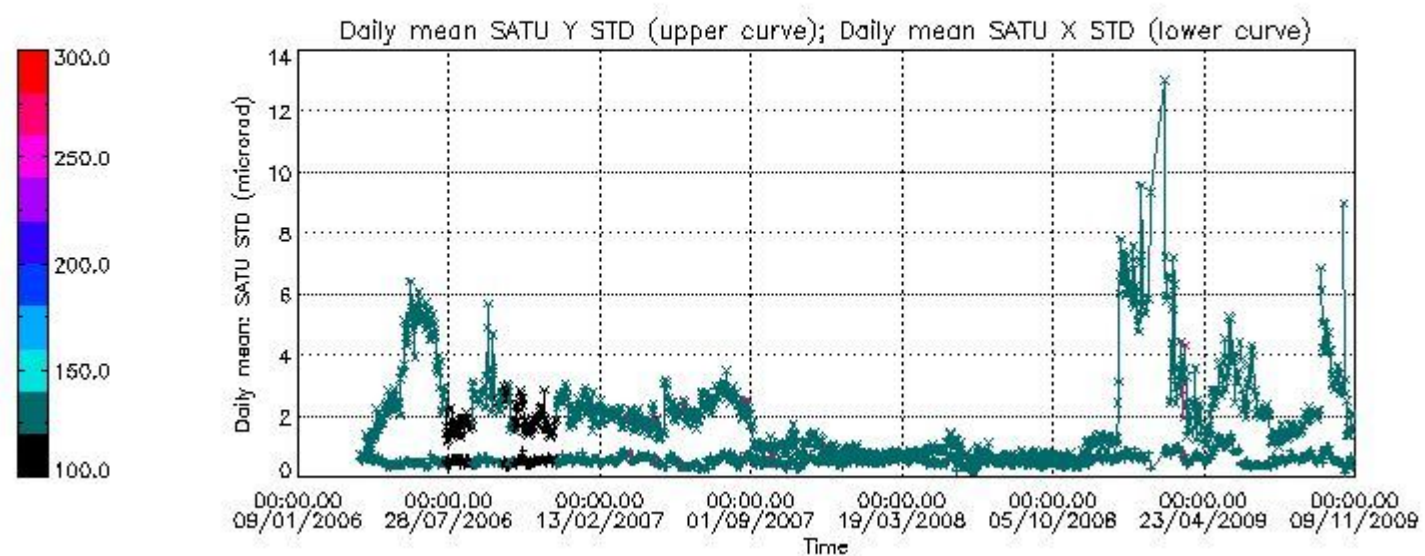
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

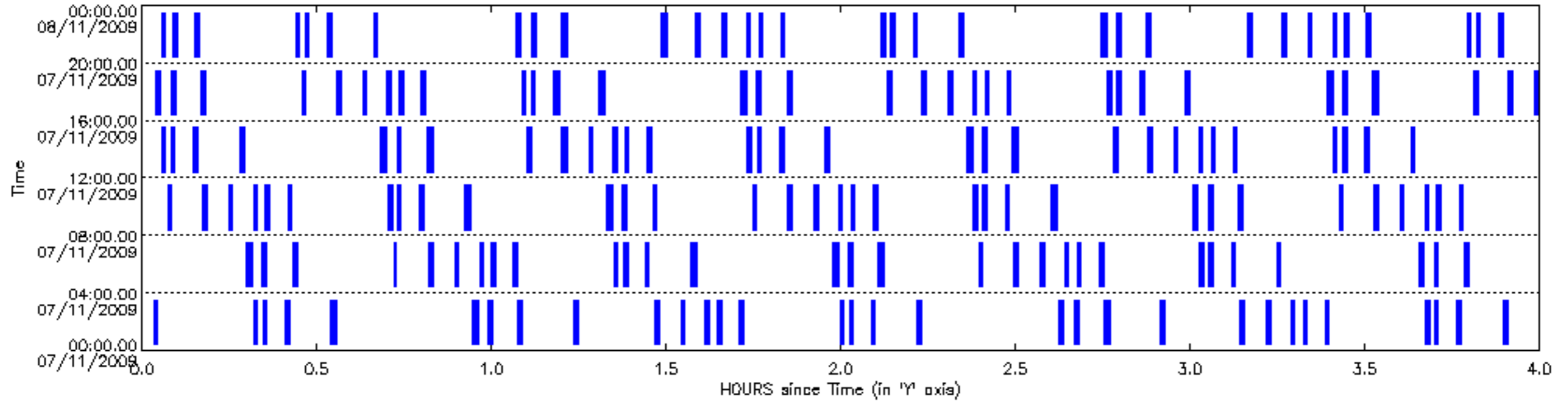
Lower curve: STD of SATU X axis

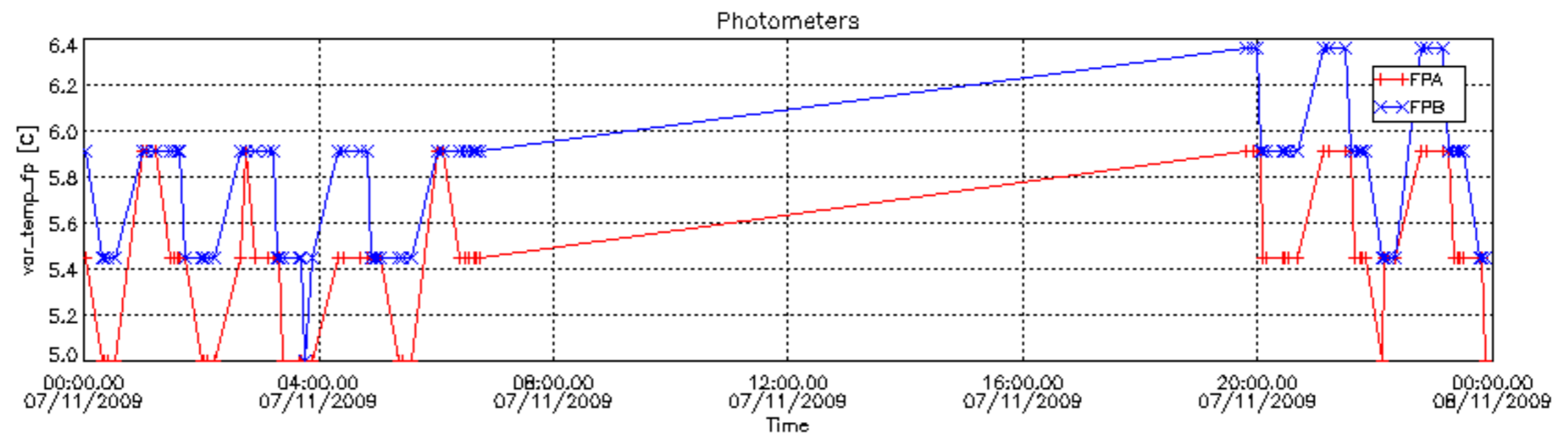
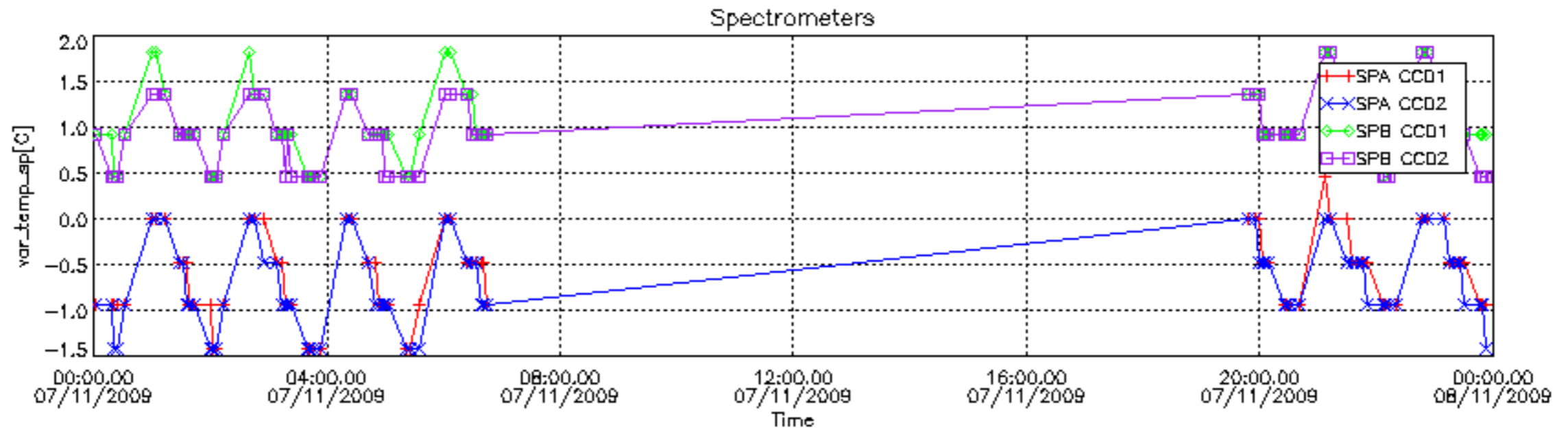


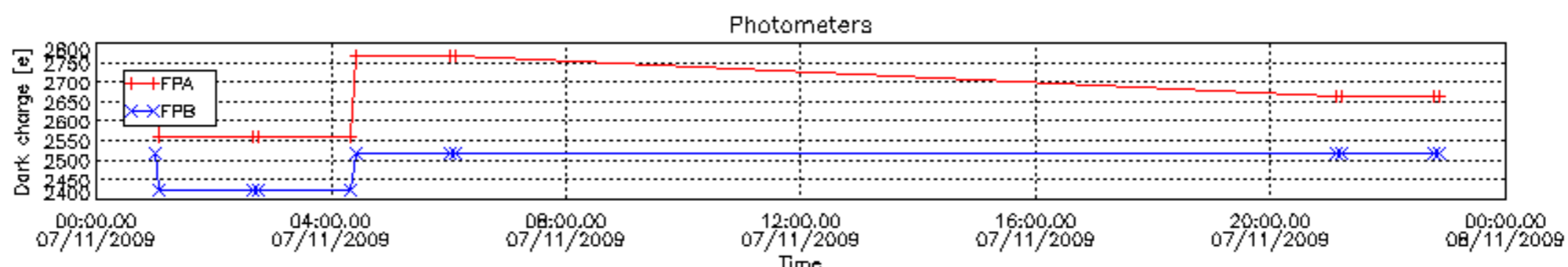
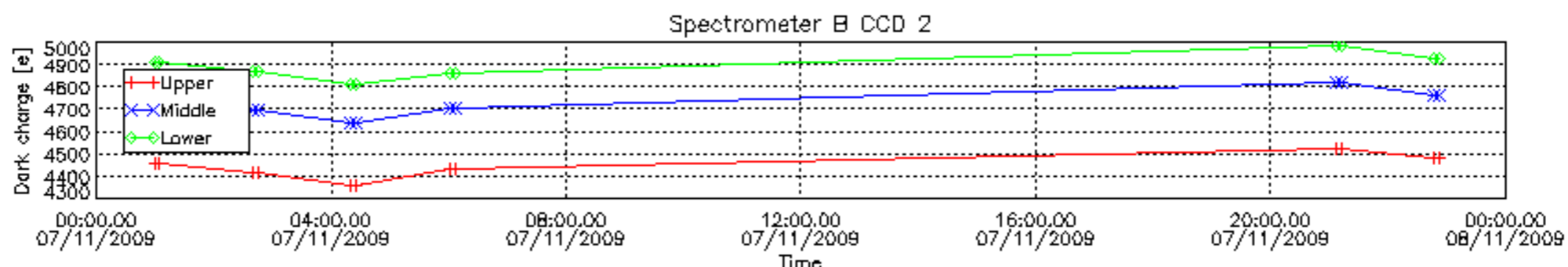
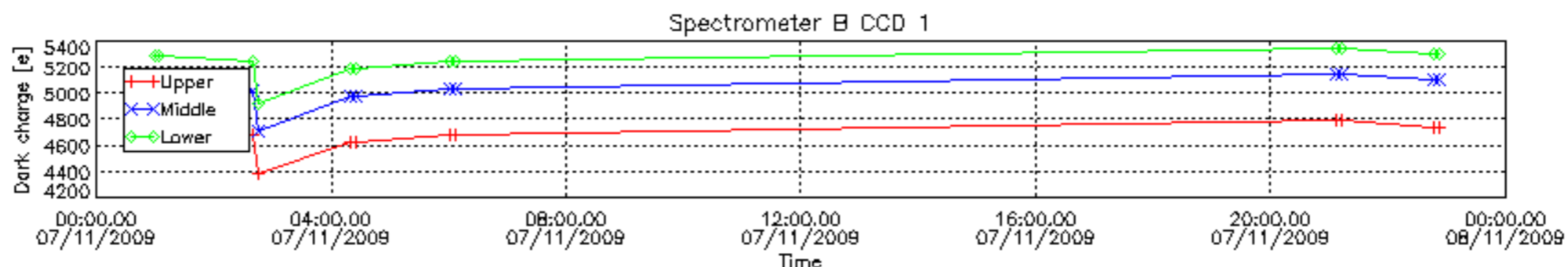
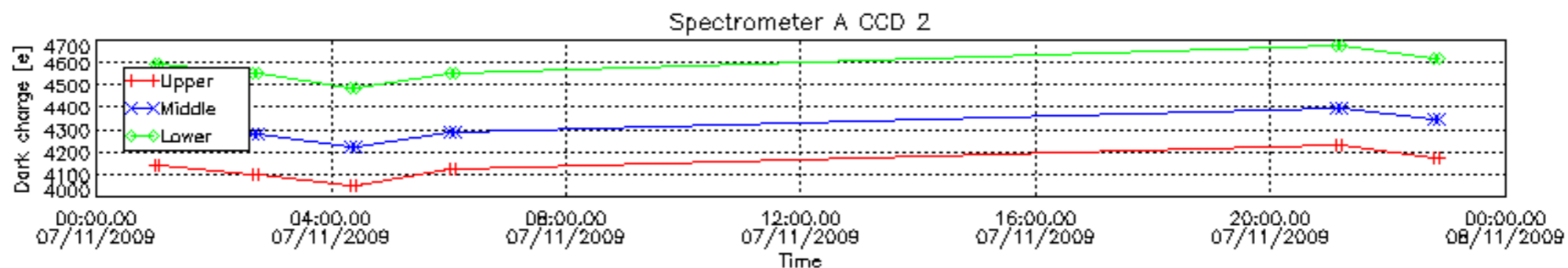
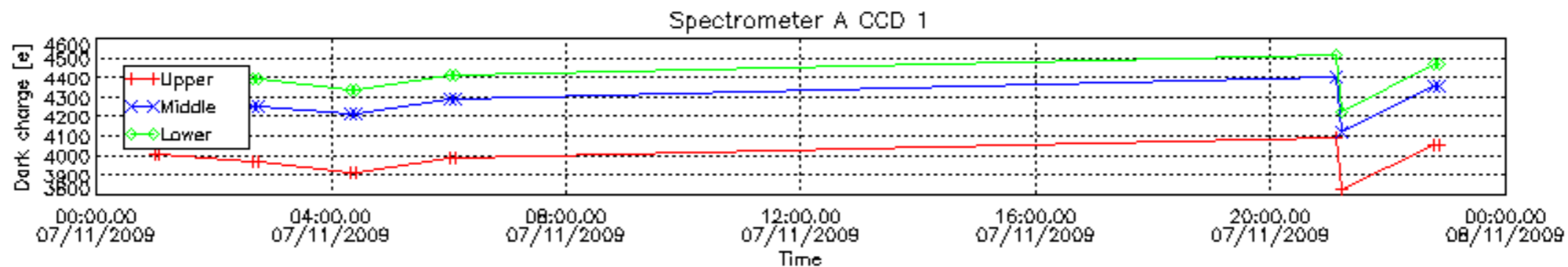
### 8. Auxiliary Data Files used for the production reported in section 2.4

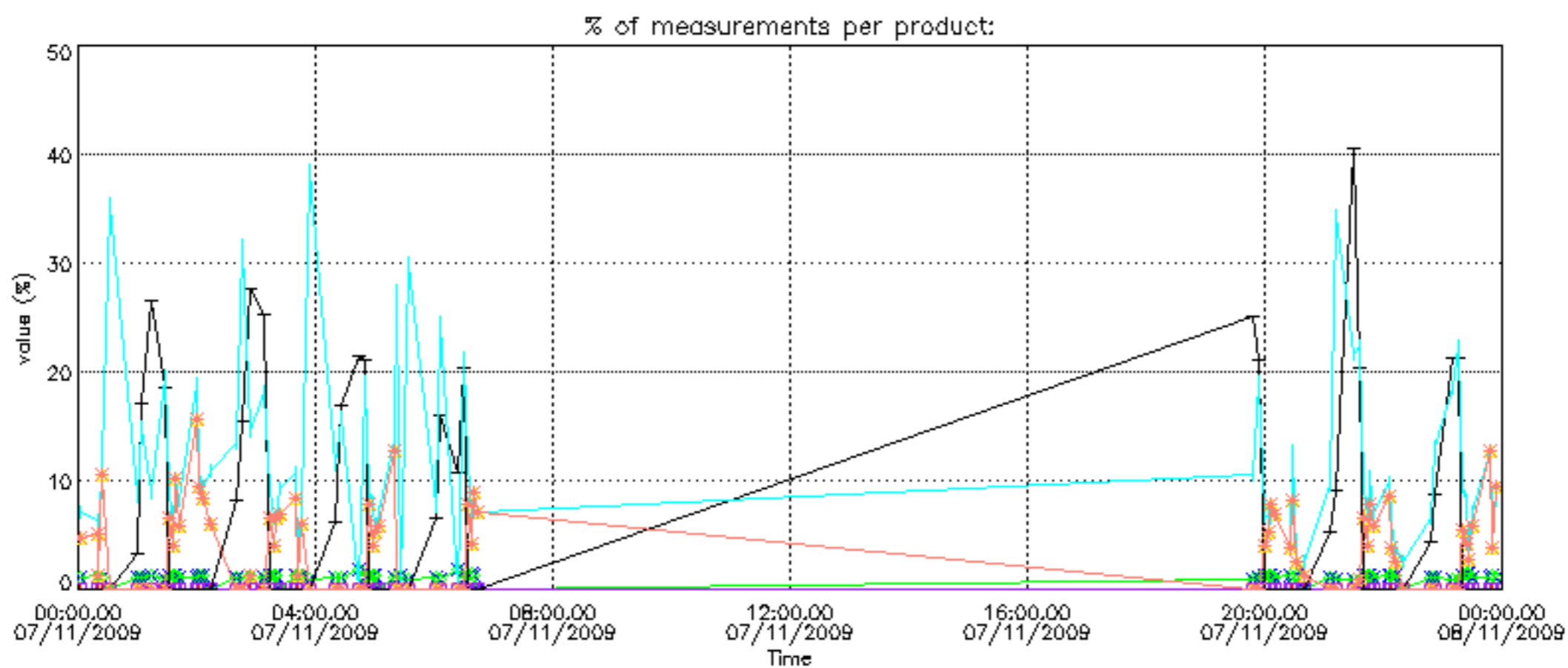
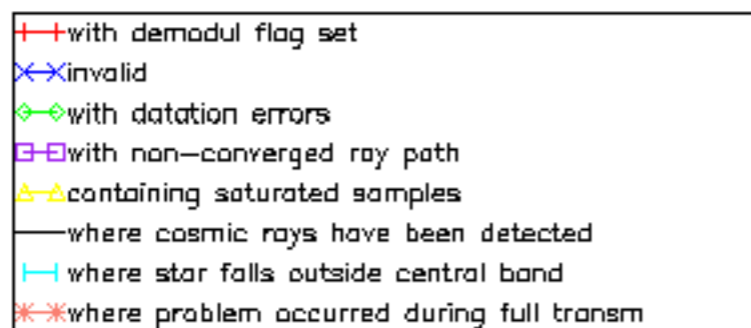
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-NOV-2009 00:02:00
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091106_091155_20091104_000000_20100101_000000	1	07-NOV-2009 00:02:00
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-NOV-2009 00:02:00
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-NOV-2009 00:02:00
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-NOV-2009 00:02:00
ECMWF_FILE	AUX_ECF_AXNECM20091106_064112_20091106_210000_20091107_090000	1	07-NOV-2009 00:02:00
ECMWF_FILE	AUX_ECF_AXNECM20091106_184113_20091107_030000_20091107_150000	26	07-NOV-2009 03:40:22
ECMWF_FILE	AUX_ECA_AXNECM20091107_062112_20091106_210000_20091107_090000	38	07-NOV-2009 05:20:58
ECMWF_FILE	AUX_ECA_AXNECM20091107_182112_20091107_090000_20091107_210000	50	07-NOV-2009 19:48:34
ECMWF_FILE	AUX_ECF_AXNECM20091107_064111_20091107_210000_20091108_090000	60	07-NOV-2009 21:06:46
OPTIONAL_ECMWF_FILE	MISSING	1	07-NOV-2009 00:02:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091106_230006_000057382084_00058_40192_9116.N1	1	07-NOV-2009 00:02:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091107_004103_000054192084_00059_40193_9117.N1	6	07-NOV-2009 00:59:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091107_021642_000041442084_00060_40194_9118.N1	18	07-NOV-2009 02:40:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091107_033105_000057382084_00061_40195_9119.N1	26	07-NOV-2009 03:40:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091107_051202_000057382084_00062_40196_9120.N1	38	07-NOV-2009 05:20:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091107_193245_000038252084_00071_40205_9121.N1	50	07-NOV-2009 19:48:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091107_204150_000060572084_00071_40205_9122.N1	60	07-NOV-2009 21:06:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091107_222806_000057382084_00072_40206_9123.N1	72	07-NOV-2009 22:47:23



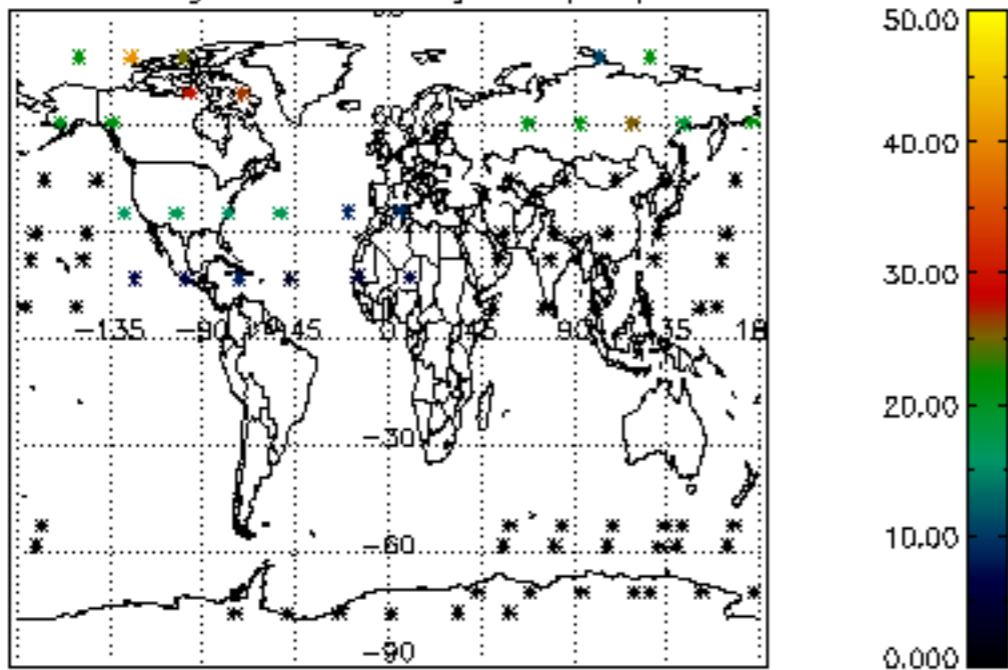




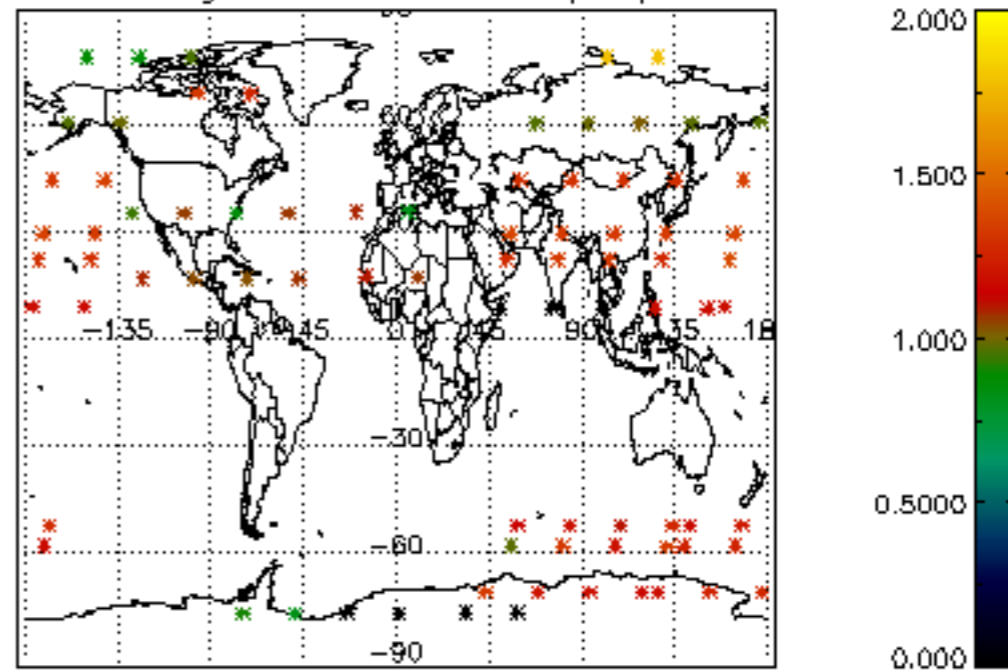




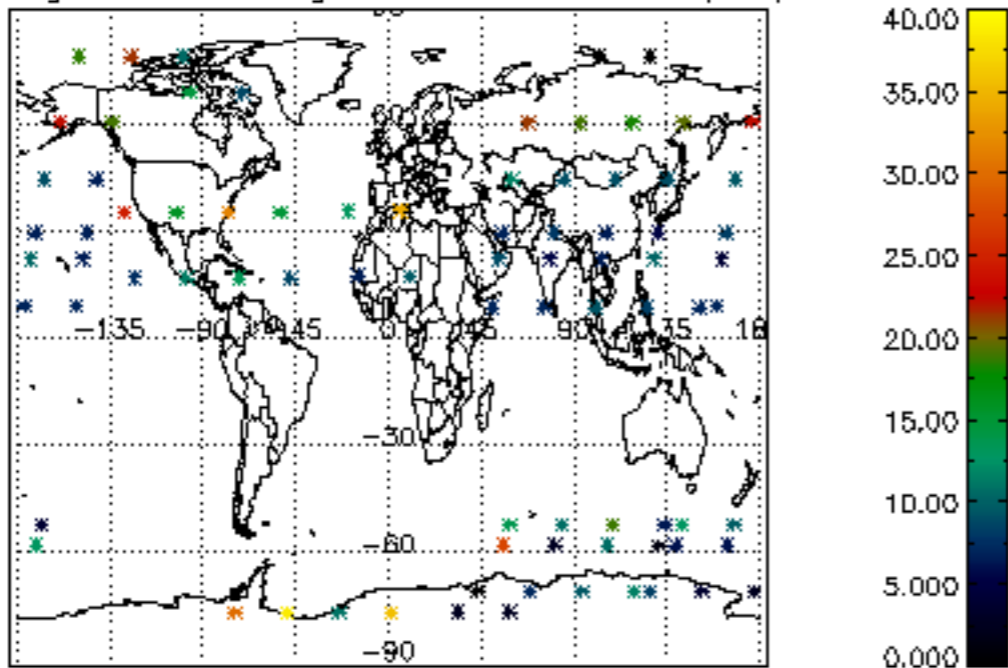
Percentage of cosmic ray hits per profile



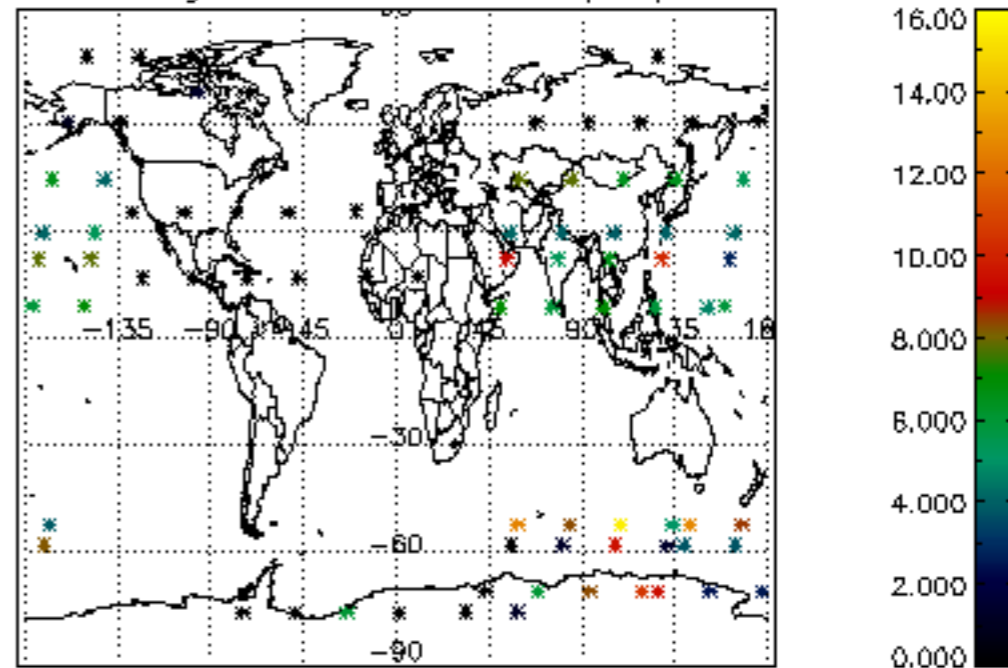
Percentage of datation errors per profile



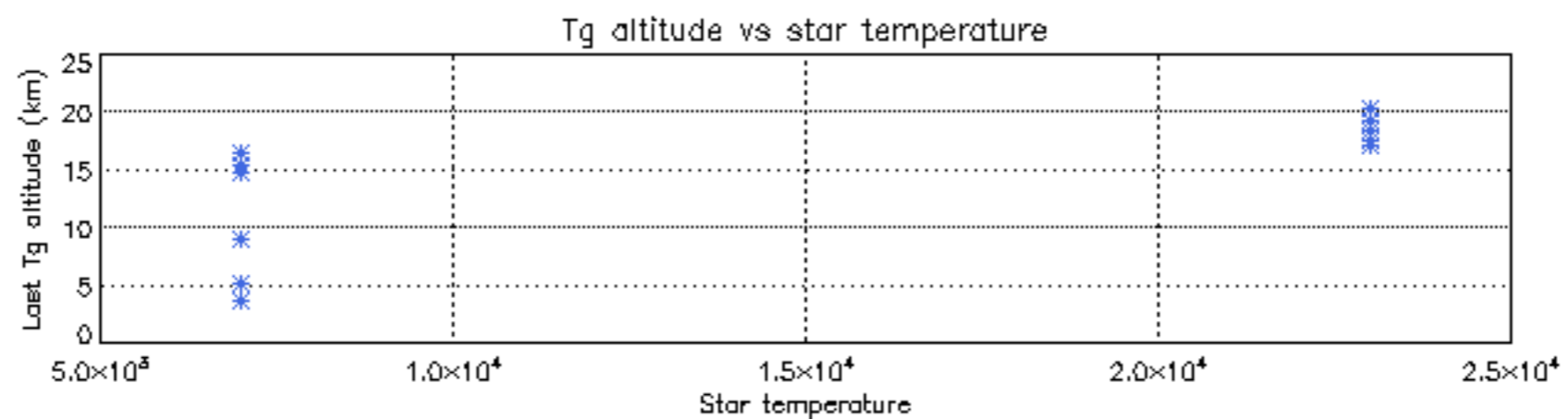
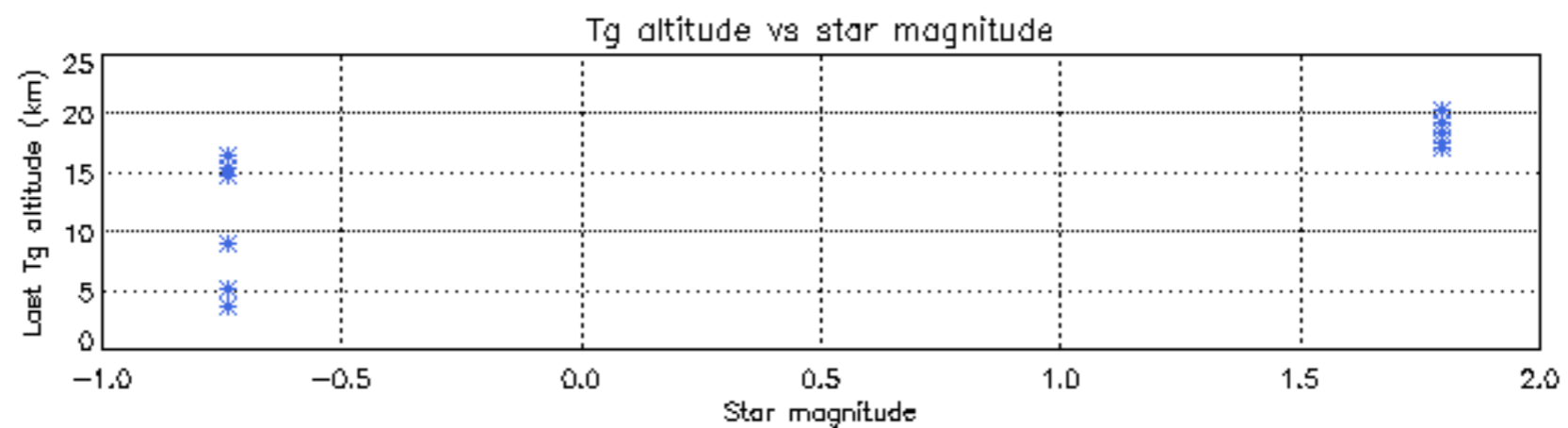
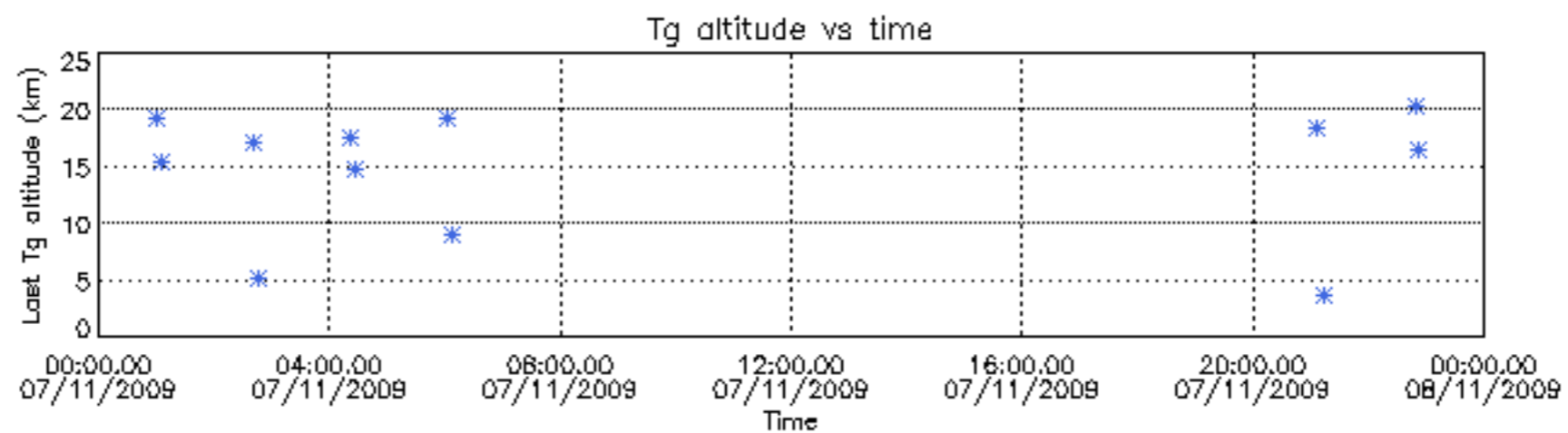
Percentage of star falling outside central band per profile



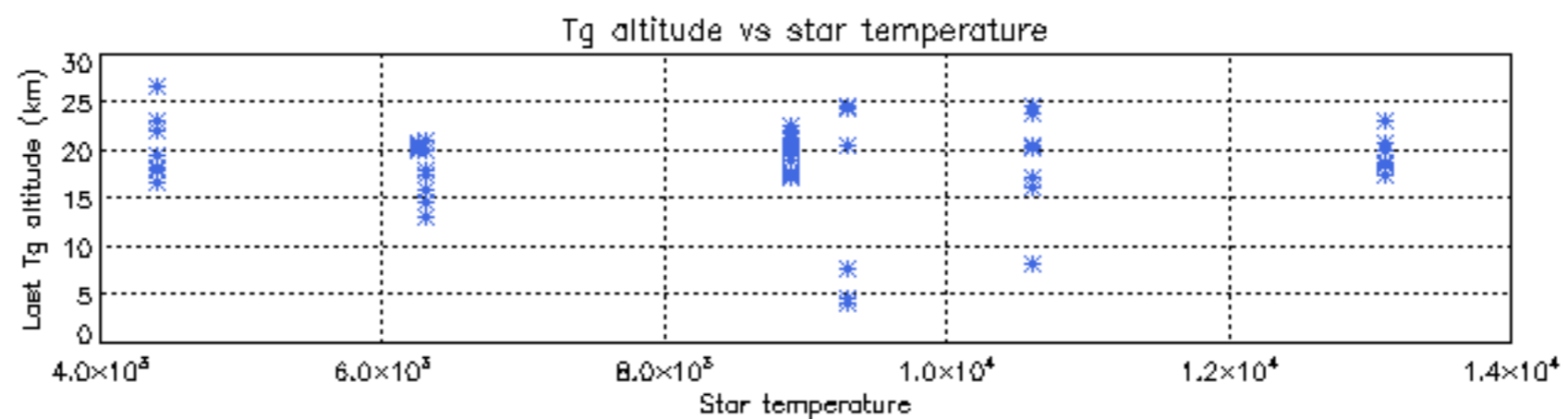
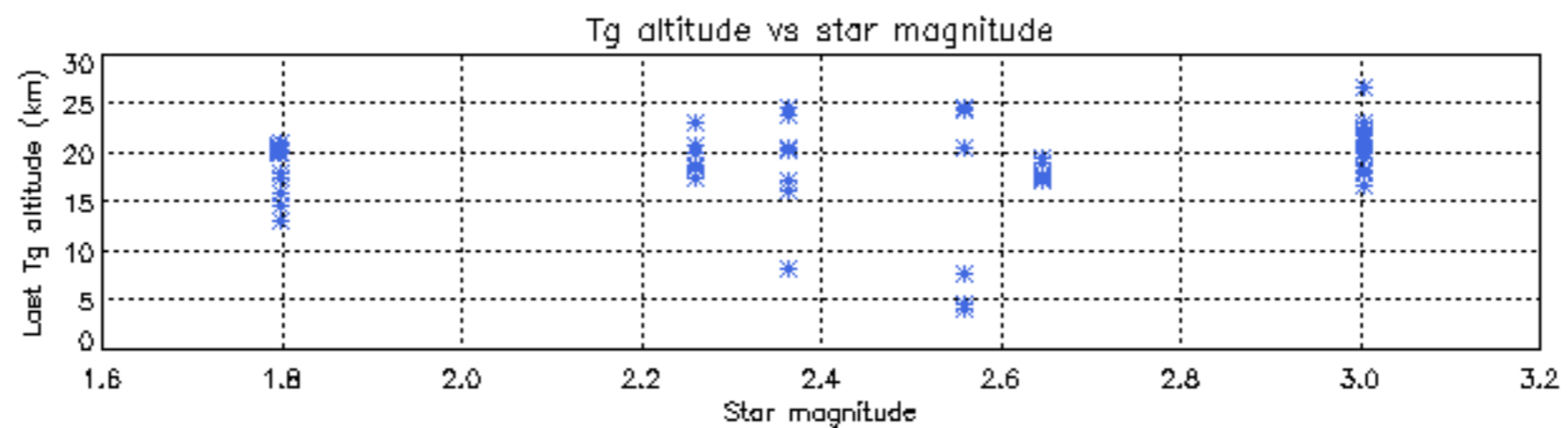
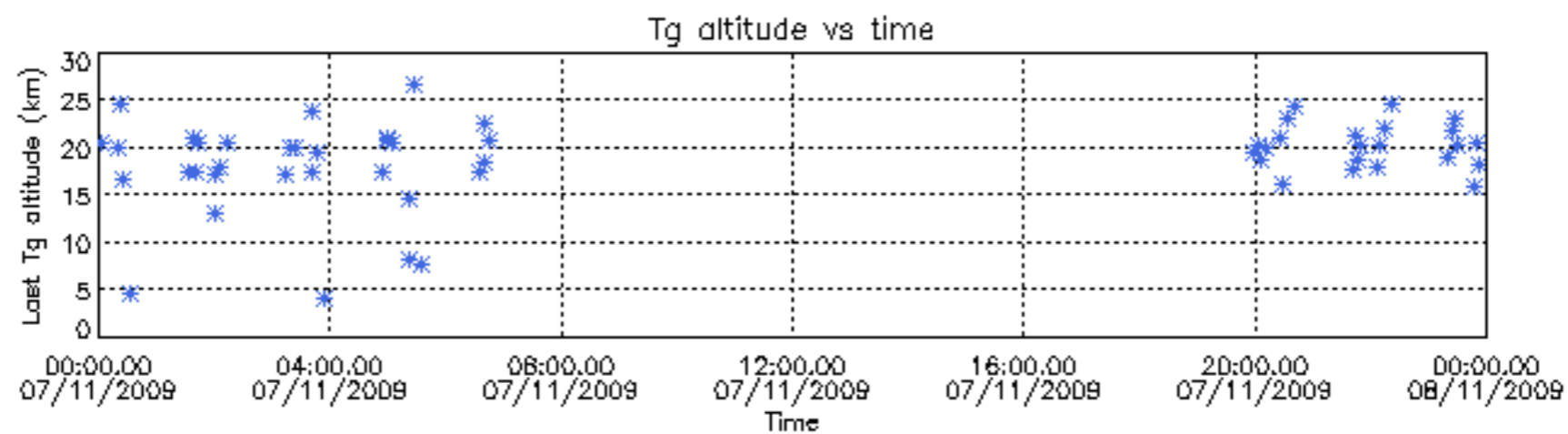
Percentage of saturation errors per profile

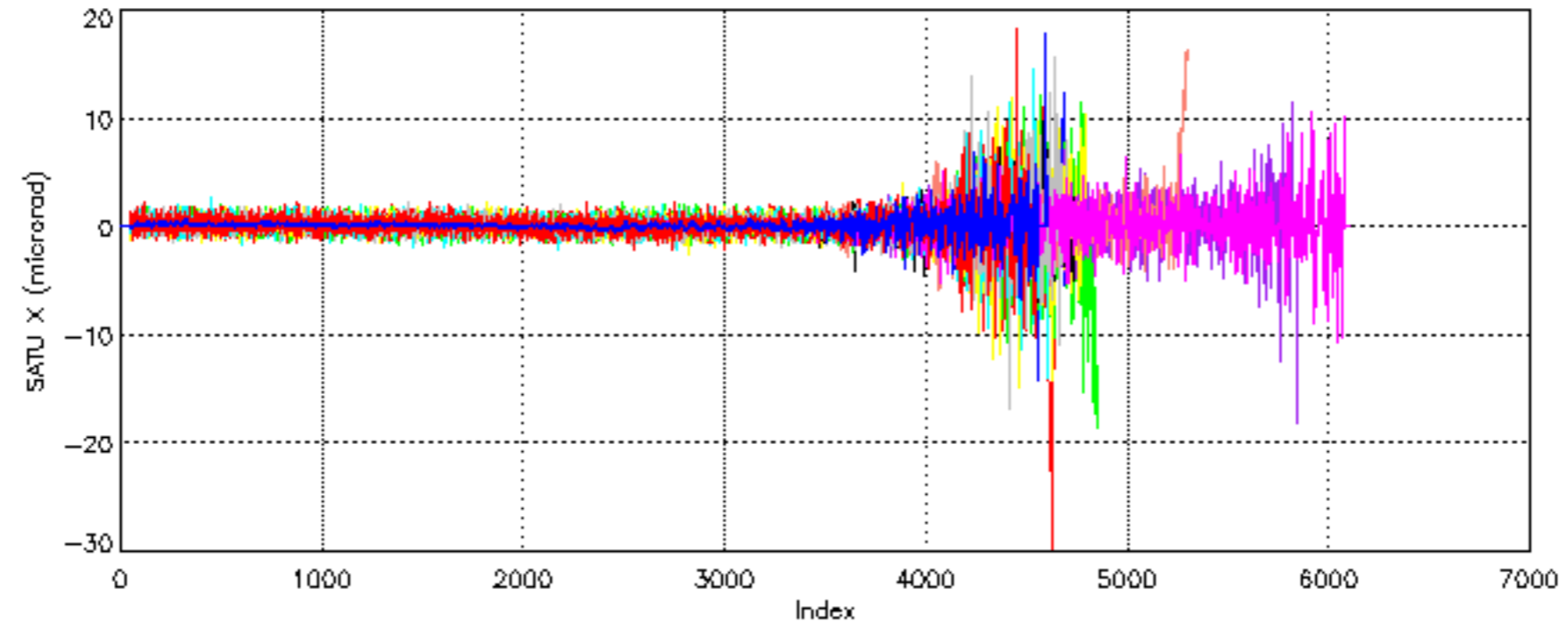


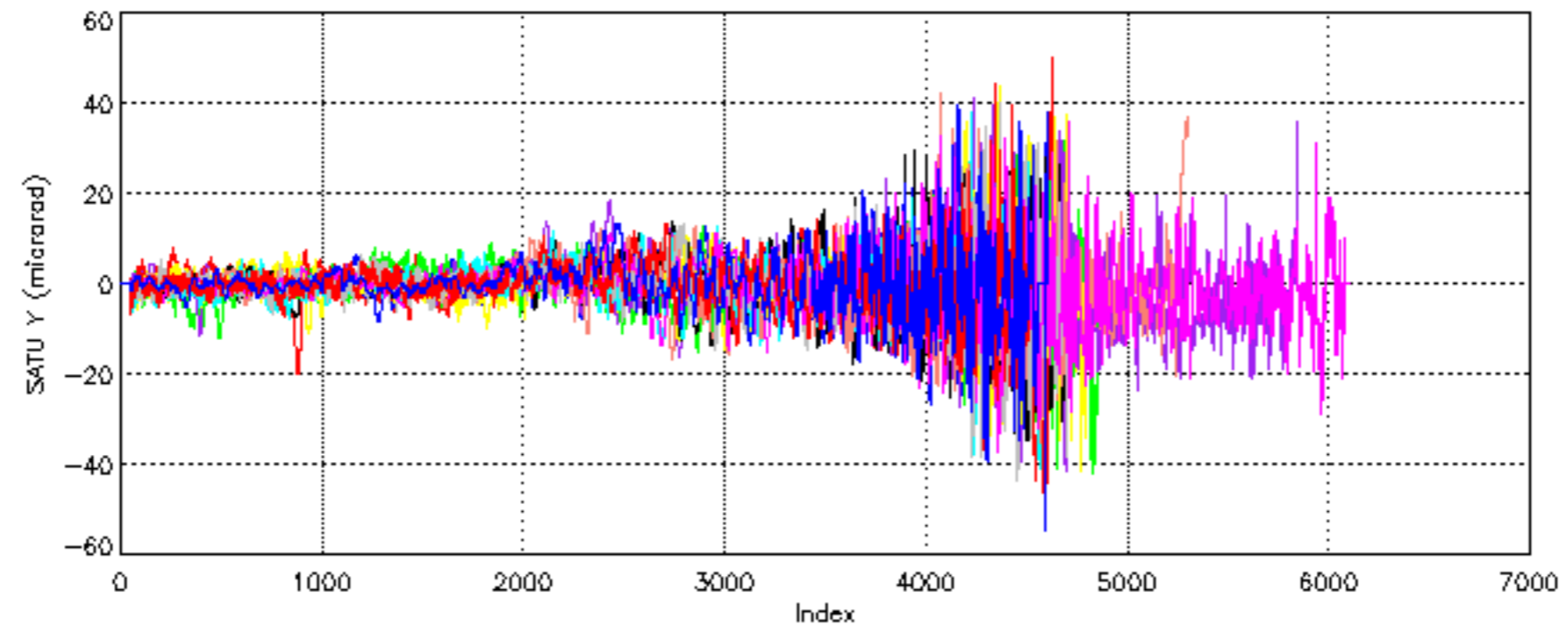
Tangent altitude at which the star is lost

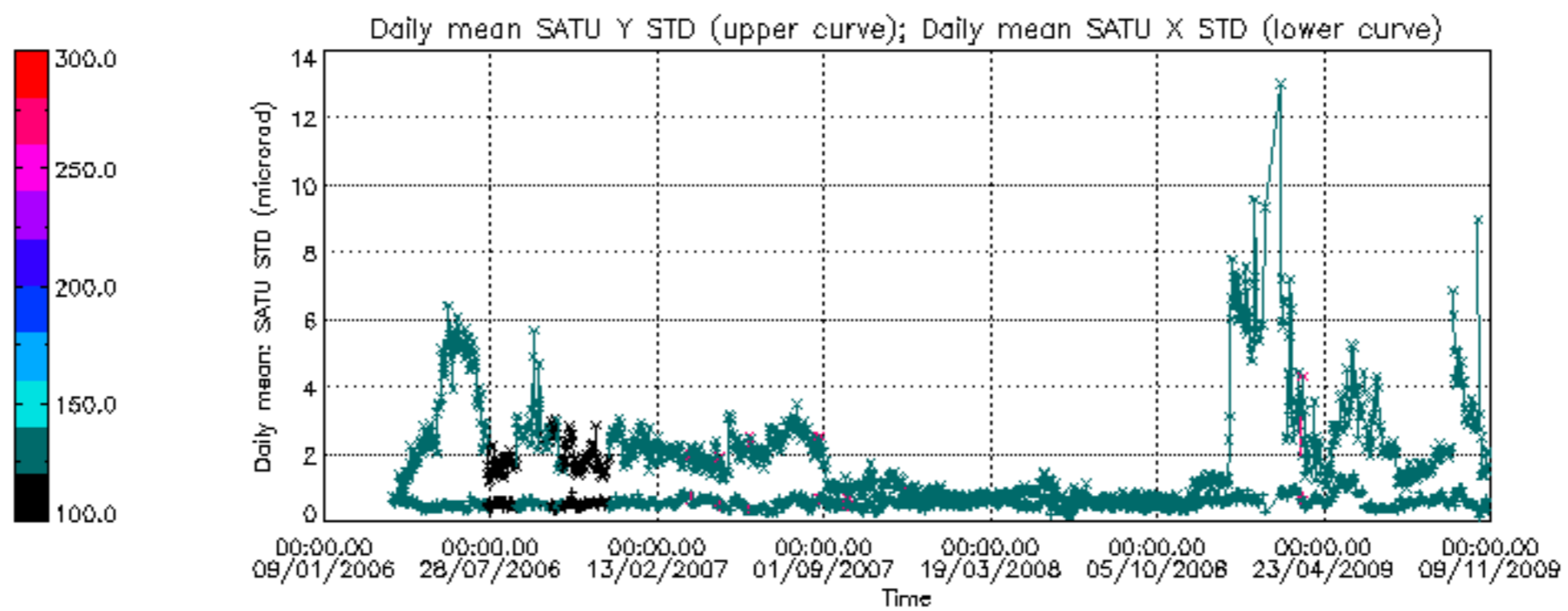


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20091101\_003421\_000055302083\_00474\_40107\_8843.N1

1; -534.0; 01-NOV-2009 00:34:21; Dark ; 68.5; 48; 30Alp Hya ; 1.98; 4100;occ; 137; 0;40107  
 2; -19.6; 01-NOV-2009 00:42:55; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;40107  
 3; 197.6; 01-NOV-2009 00:46:32; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40108  
 4; 348.1; 01-NOV-2009 00:49:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40108  
 5; 524.1; 01-NOV-2009 00:51:59; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;40108  
 6; 908.8; 01-NOV-2009 00:58:23; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40108  
 7; 2010.3; 01-NOV-2009 01:16:45; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;40108  
 8; 2273.3; 01-NOV-2009 01:21:08; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40108  
 9; 2538.3; 01-NOV-2009 01:25:33; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;40108  
 10; 2660.8; 01-NOV-2009 01:27:35; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40108  
 11; 2742.1; 01-NOV-2009 01:28:57; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;40108  
 12; 2934.3; 01-NOV-2009 01:32:09; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;40108  
 13; 3911.9; 01-NOV-2009 01:48:27; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;40108  
 14; 4008.4; 01-NOV-2009 01:50:03; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;40108  
 15; 4229.5; 01-NOV-2009 01:53:44; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;40108  
 16; 4709.7; 01-NOV-2009 02:01:44; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40108  
 17; 4938.4; 01-NOV-2009 02:05:33; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;40108

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20091101\_021458\_000044602083\_00475\_40108\_8844.N1

1; -532.5; 01-NOV-2009 02:14:58; Dark ; 66.0; 48; 30Alp Hya ; 1.98; 4100;occ; 132; 0;40108  
 2; -18.6; 01-NOV-2009 02:23:32; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;40108  
 3; 198.7; 01-NOV-2009 02:27:09; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40109  
 4; 349.0; 01-NOV-2009 02:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40109  
 5; 525.4; 01-NOV-2009 02:32:36; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;40109  
 6; 910.1; 01-NOV-2009 02:39:01; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40109  
 7; 2010.1; 01-NOV-2009 02:57:21; Dark ; 56.5; 94; 92Alp Cet ; 2.53; 3100;occ; 113; 0;40109  
 8; 2273.2; 01-NOV-2009 03:01:44; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40109  
 9; 2538.6; 01-NOV-2009 03:06:09; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40109  
 10; 2660.6; 01-NOV-2009 03:08:11; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40109  
 11; 2741.6; 01-NOV-2009 03:09:32; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;40109  
 12; 2933.8; 01-NOV-2009 03:12:44; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;40109  
 13; 3912.0; 01-NOV-2009 03:29:03; Bright; 16.0; 36; 50Alp UMa ; 1.80; 6300;occ; 32; 0;40109

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20091101\_032903\_000050992083\_00476\_40109\_8845.N1

1; -2124.0; 01-NOV-2009 03:29:03; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;40109  
 2; -2027.5; 01-NOV-2009 03:30:39; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;40109  
 3; -1806.5; 01-NOV-2009 03:34:20; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;40109  
 4; -1325.9; 01-NOV-2009 03:42:21; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40109  
 5; -1096.7; 01-NOV-2009 03:46:10; Bright; 53.0; 22; 32Alp Leo ; 1.36; 15200;occ; 106; 0;40109  
 6; -531.1; 01-NOV-2009 03:55:35; Dark ; 66.0; 48; 30Alp Hya ; 1.98; 4100;occ; 132; 0;40109  
 7; -17.4; 01-NOV-2009 04:04:09; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;40109  
 8; 199.8; 01-NOV-2009 04:07:46; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40110  
 9; 349.9; 01-NOV-2009 04:10:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40110  
 10; 526.2; 01-NOV-2009 04:13:13; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;40110  
 11; 911.1; 01-NOV-2009 04:19:38; Dark ; 31.0; 108; Alp Col ; 2.65; 15200;occ; 62; 0;40110  
 12; 2010.0; 01-NOV-2009 04:37:57; Dark ; 53.5; 94; 92Alp Cet ; 2.53; 3100;occ; 107; 0;40110  
 13; 2273.1; 01-NOV-2009 04:42:20; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40110  
 14; 2538.3; 01-NOV-2009 04:46:45; Bright; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;40110  
 15; 2933.6; 01-NOV-2009 04:53:20; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;40110

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20091101\_050939\_000050982083\_00477\_40110\_8846.N1

1; -2124.0; 01-NOV-2009 05:09:39; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;40110  
 2; -2027.5; 01-NOV-2009 05:11:15; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;40110  
 3; -1806.2; 01-NOV-2009 05:14:56; Bright; 56.0; 174; 52Psi UMa ; 3.00; 4400;occ; 112; 0;40110  
 4; -1325.3; 01-NOV-2009 05:22:57; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;40110  
 5; -1096.0; 01-NOV-2009 05:26:47; Bright; 55.0; 22; 32Alp Leo ; 1.36; 15200;occ; 110; 0;40110  
 6; -529.7; 01-NOV-2009 05:36:13; Dark ; 59.0; 48; 30Alp Hya ; 1.98; 4100;occ; 118; 0;40110  
 7; -16.7; 01-NOV-2009 05:44:46; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;40110  
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 7; 2828.2; 13-NOV-2009 10:16:22; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;40285  
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 9; 3986.2; 13-NOV-2009 10:35:40; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;40285  
 10; 4225.1; 13-NOV-2009 10:39:39; Bright; 44.5; 174; 52Psi UMa ; 3.00; 4400;occ; 89; 0;40285  
 11; 4727.2; 13-NOV-2009 10:48:01; Bright; 46.0; 96; 68Del Leo ; 2.56; 9300;occ; 92; 0;40285  
 12; 5952.3; 13-NOV-2009 11:08:26; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40285  
 13; 6229.6; 13-NOV-2009 11:13:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40285  
 14; 6362.5; 13-NOV-2009 11:15:16; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;40285  
 15; 6454.3; 13-NOV-2009 11:16:48; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;40285  
 16; 6691.0; 13-NOV-2009 11:20:45; Dark ; 61.0; 2; Alp Car ; -0.74; 7000;occ; 122; 0;40285  
 17; 7093.6; 13-NOV-2009 11:27:27; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;40285

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 3; 2307.6; 13-NOV-2009 11:48:17; Bright; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;40286  
 4; 2414.3; 13-NOV-2009 11:50:04; Bright; 46.0; 146; 25Eta Tau ; 2.87; 15200;occ; 92; 0;40286  
 5; 2629.7; 13-NOV-2009 11:53:39; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;40286  
 6; 2727.9; 13-NOV-2009 11:55:17; Bright; 66.0; 149; 45Eps Per ; 2.89; 30000;occ; 132; 0;40286  
 7; 2827.8; 13-NOV-2009 11:56:57; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;40286  
 8; 3888.0; 13-NOV-2009 12:14:38; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;40286  
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 12; 5952.8; 13-NOV-2009 12:49:02; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40286  
 13; 6230.5; 13-NOV-2009 12:53:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40286  
 14; 6363.1; 13-NOV-2009 12:55:53; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;40286  
 15; 6455.5; 13-NOV-2009 12:57:25; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;40286  
 16; 6691.6; 13-NOV-2009 13:01:21; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;40286  
 17; 7094.4; 13-NOV-2009 13:08:04; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;40286

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 5; 2629.8; 13-NOV-2009 13:34:15; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40287  
 6; 2727.4; 13-NOV-2009 13:35:53; Bright; 43.0; 149; 45Eps Per ; 2.89; 30000;occ; 86; 0;40287  
 7; 2827.3; 13-NOV-2009 13:37:33; Bright; 40.0; 35; 33Alp Per ; 1.79; 6250;occ; 80; 0;40287  
 8; 3887.6; 13-NOV-2009 13:55:13; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;40287  
 9; 3986.0; 13-NOV-2009 13:56:51; Bright; 60.0; 82; 48Bet UMa ; 2.37; 10600;occ; 120; 0;40287  
 10; 4225.3; 13-NOV-2009 14:00:51; Bright; 62.0; 174; 52Psi UMa ; 3.00; 4400;occ; 124; 0;40287  
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 12; 5953.6; 13-NOV-2009 14:29:39; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40287  
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 14; 6363.7; 13-NOV-2009 14:36:29; Dark ; 43.0; 41; Eps Car ; 1.86; 4100;occ; 86; 0;40287  
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4; 2413.5; 13-NOV-2009 15:11:15; Bright; 45.0; 146; 25Eta Tau ; 2.87; 15200;occ; 90; 0;40288
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9; 3985.7; 13-NOV-2009 15:37:27; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;40288
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11; 4728.6; 13-NOV-2009 15:49:50; Bright; 45.0; 96; 68Del Leo ; 2.56; 9300;occ; 90; 0;40288
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13; 6232.3; 13-NOV-2009 16:14:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40288
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16; 6693.4; 13-NOV-2009 16:22:35; Dark ; 43.0; 2; Alp Car ; -0.74; 7000;occ; 86; 0;40288
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4; 2412.9; 13-NOV-2009 16:51:50; Bright; 43.5; 146; 25Eta Tau ; 2.87; 15200;occ; 87; 0;40289
5; 2629.6; 13-NOV-2009 16:55:27; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;40289
6; 2726.0; 13-NOV-2009 16:57:03; Bright; 42.5; 149; 45Eps Per ; 2.89; 30000;occ; 85; 0;40289
7; 2826.6; 13-NOV-2009 16:58:44; Bright; 39.0; 35; 33Alp Per ; 1.79; 6250;occ; 78; 0;40289
8; 3887.1; 13-NOV-2009 17:16:24; Bright; 32.5; 36; 50Alp UMa ; 1.80; 6300;occ; 65; 0;40289
9; 3985.3; 13-NOV-2009 17:18:03; Bright; 32.5; 82; 48Bet UMa ; 2.37; 10600;occ; 65; 0;40289
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12; 5954.7; 13-NOV-2009 17:50:52; Dark ; 35.0; 113; Mu Vel ; 2.69; 5000;occ; 70; 0;40289
13; 6233.1; 13-NOV-2009 17:55:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40289
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3; 1977.1; 13-NOV-2009 18:25:10; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;40290
4; 2307.1; 13-NOV-2009 18:30:40; Bright; 40.0; 50; 13Alp Ari ; 2.01; 4250;occ; 80; 0;40290
5; 2411.9; 13-NOV-2009 18:32:25; Bright; 46.5; 146; 25Eta Tau ; 2.87; 15200;occ; 93; 0;40290
6; 2629.3; 13-NOV-2009 18:36:03; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40290
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9; 3886.9; 13-NOV-2009 18:57:00; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;40290
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3; 331.5; 14-NOV-2009 00:40:08; Dark ; 42.5; 41; Eps Car ; 1.86; 4100;occ; 85; 0;40294
4; 428.1; 14-NOV-2009 00:41:45; Dark ; 56.5; 70; Zet Pup ; 2.25; 39000;occ; 113; 0;40294
5; 660.3; 14-NOV-2009 00:45:37; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;40294
6; 1063.5; 14-NOV-2009 00:52:20; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;40294
7; 1638.5; 14-NOV-2009 01:01:55; Dark ; 44.0; 165; 34Gam Eri ; 2.95; 3200;occ; 88; 0;40294
8; 1976.8; 14-NOV-2009 01:07:34; Dark ; 40.0; 94; 92Alp Cet ; 2.53; 3100;occ; 80; 0;40294
9; 2410.0; 14-NOV-2009 01:14:47; Bright; 47.5; 146; 25Eta Tau ; 2.87; 15200;occ; 95; 0;40294
10; 2629.2; 14-NOV-2009 01:18:26; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;40294

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 9; 2409.4; 14-NOV-2009 02:55:22; Bright; 46.0; 146; 25Eta Tau ; 2.87; 15200;occ; 92; 0;40295
10; 2628.9; 14-NOV-2009 02:59:02; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;40295
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 3;-1811.5; 14-NOV-2009 05:06:13; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;40296
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 11; 4206.0; 24-NOV-2009 21:37:31; Bright; 30.0; 174; 52Psi UMA ; 3.00; 4400;occ; 60; 0;40449  
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16; 2610.1; 26-NOV-2009 21:48:16; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40478
17; 2751.6; 26-NOV-2009 21:50:38; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;40478
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23; 4885.3; 26-NOV-2009 22:26:12; Bright; 54.0; 62; 94Bet Leo ; 2.14; 9700;occ; 108; 0;40478
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14; 5099.8; 28-NOV-2009 11:22:56; Bright; 43.5; 121; 29Gam Vir ; 2.74; 7200;occ; 87; 0;40500
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22; 7156.4; 28-NOV-2009 11:57:13; Dark ; 34.0; 23; 21Eps CMA ; 1.50; 26000;occ; 68; 0;40500
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12; 4195.9; 28-NOV-2009 12:48:28; Bright; 74.0; 174; 52Psi UMa ; 3.00; 4400;occ; 148; 0;40501
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 15; 5100.3; 28-NOV-2009 13:03:32; Bright; 60.0; 121; 29Gam Vir ; 2.74; 7200;occ; 120; 0;40501  
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 23; 7157.2; 28-NOV-2009 13:37:49; Dark ; 37.0; 23; 21Eps CMa ; 1.50; 26000;occ; 74; 0;40501  
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 8; 2872.4; 28-NOV-2009 14:07:00; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;40502  
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 22; 6710.2; 28-NOV-2009 15:10:58; Dark ; 57.0; 70; Zet Pup ; 2.25; 39000;occ; 114; 0;40502  
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 5; 605.0; 01-DEC-2009 00:10:10; Dark ; 50.0; 34; Gam2Vel ; 1.79; 23000;occ; 100; 0;40537  
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