

GOMOS Daily Report 11-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	14NOV2009 04:45:38
Data source version	GOMOS/5.00L03
Start time of products	11NOV2009 00:06:51
Stop time of products	11NOV2009 23:35:19
Store outputs in DB	Yes
Nb of level 1b prods	74
Nb of prods with errors	0

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

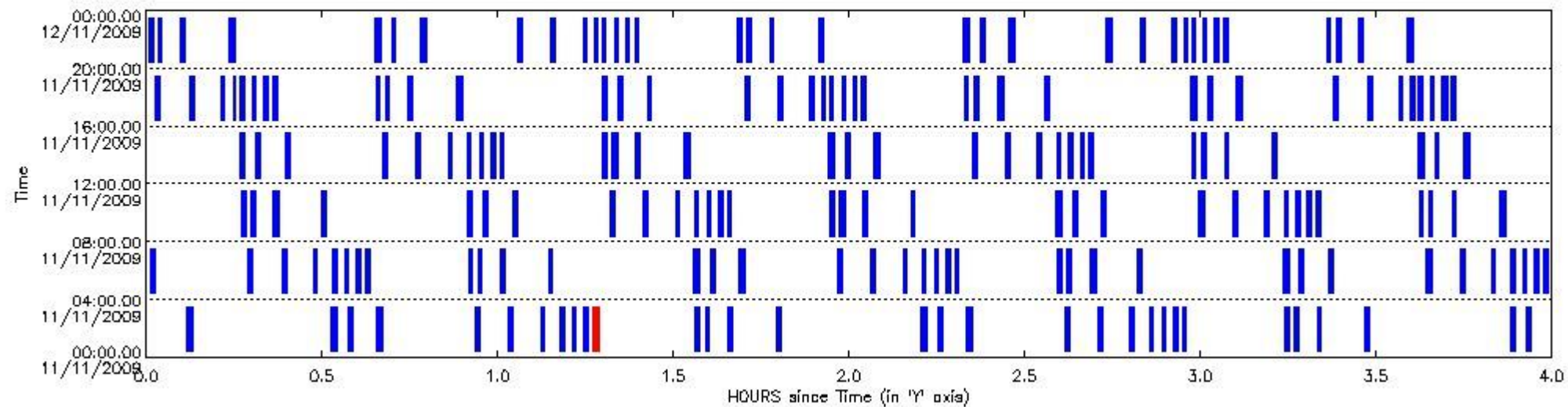
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
11-NOV-2009 01:16:21	39DelPer	175	40251

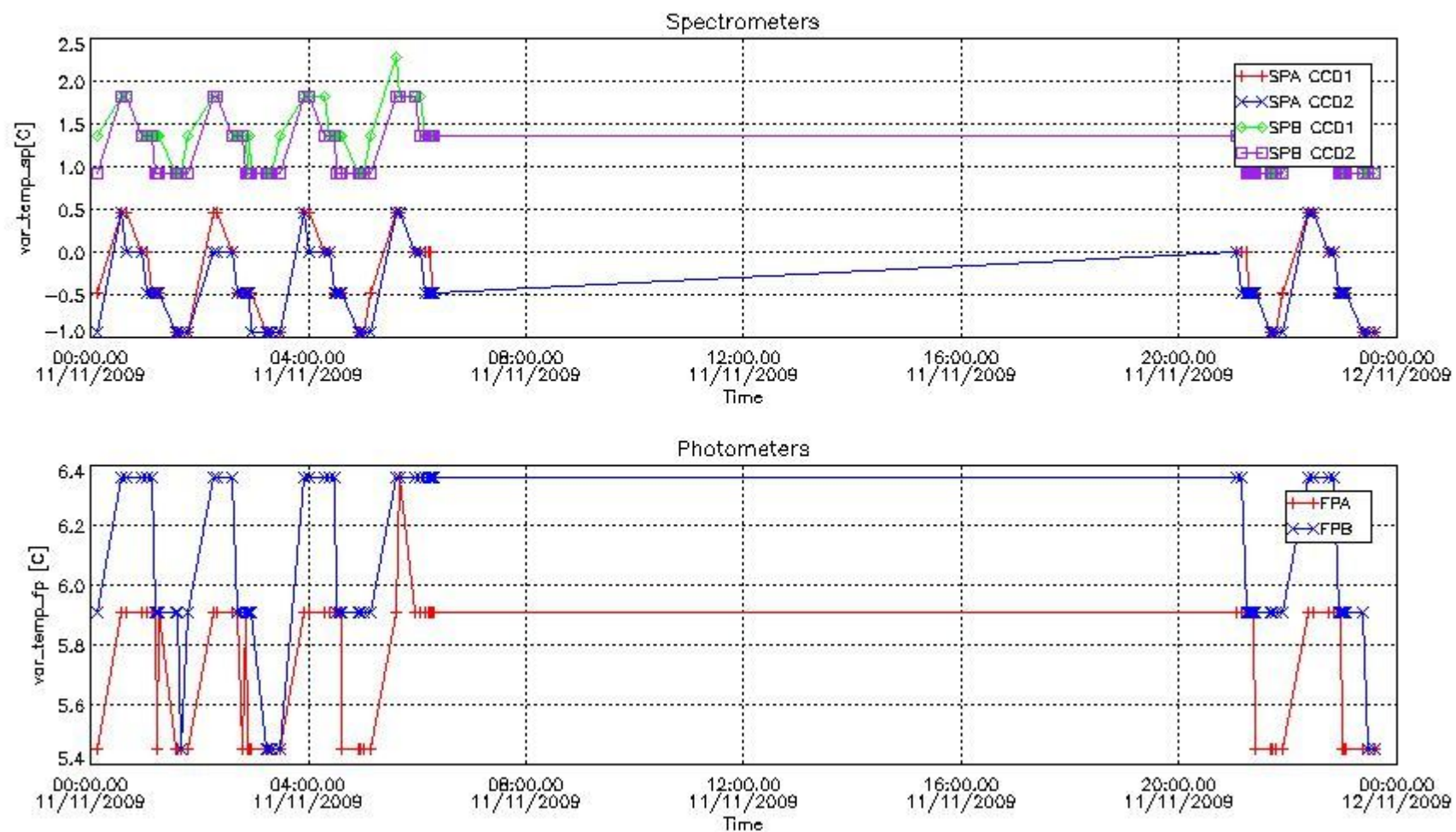
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091111_000651_000000642084_00116_40250_3209.N1	11-NOV-2009 00:06:51	Bright	63.500	96	68Del Leo	2.5600	9300.0	127	40250	No
2	GOM_TRA_1PNPDE20091111_003426_000000452084_00117_40251_3204.N1	11-NOV-2009 00:34:26	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	40251	No
3	GOM_TRA_1PNPDE20091111_003923_000000552084_00117_40251_3205.N1	11-NOV-2009 00:39:23	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	40251	No
4	GOM_TRA_1PNPDE20091111_005608_000000542084_00117_40251_3206.N1	11-NOV-2009 00:56:08	Straylight	53.500	165	34Gam Eri	2.9500	3200.0	107	40251	No
5	GOM_TRA_1PNPDE20091111_010153_000000492084_00117_40251_3207.N1	11-NOV-2009 01:01:53	Twilight_stray	48.500	94	92Alp Cet	2.5260	3100.0	97	40251	No
6	GOM_TRA_1PNPDE20091111_010721_000000412084_00117_40251_3208.N1	11-NOV-2009 01:07:21	Bright	41.000	50	13Alp Ari	2.0070	4250.0	82	40251	No
7	GOM_TRA_1PNPDE20091111_011041_000000372084_00117_40251_3209.N1	11-NOV-2009 01:10:41	Bright	36.500	173	4Bet Tri	3.0040	8900.0	73	40251	No
8	GOM_TRA_1PNPDE20091111_011245_000000392084_00117_40251_3210.N1	11-NOV-2009 01:12:45	Bright	38.500	73	57Gam1And	2.2600	13100.	77	40251	No
9	GOM_TRA_1PNPDE20091111_011444_000000442084_00117_40251_3211.N1	11-NOV-2009 01:14:44	Bright	44.000	149	45Eps Per	2.8880	30000.	88	40251	No
10	GOM_TRA_1PNPDE20091111_013346_000000392084_00117_40251_3212.N1	11-NOV-2009 01:33:46	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	40251	No

11	GOM_TRA_1PNPDE20091111_013524_000000422084_00117_40251_3213.N1	11-NOV-2009 01:35:24	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	40251	No
12	GOM_TRA_1PNPDE20091111_013919_000000432084_00117_40251_3214.N1	11-NOV-2009 01:39:19	Bright	43.000	174	52Psi UMa	3.0040	4400.0	86	40251	No
13	GOM_TRA_1PNPDE20091111_014727_000000642084_00117_40251_3215.N1	11-NOV-2009 01:47:27	Bright	63.500	96	68Del Leo	2.5600	9300.0	127	40251	No
14	GOM_TRA_1PNPDE20091111_021503_000000482084_00118_40252_3210.N1	11-NOV-2009 02:15:03	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40252	No
15	GOM_TRA_1PNPDE20091111_022000_000000592084_00118_40252_3211.N1	11-NOV-2009 02:20:00	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	40252	No
16	GOM_TRA_1PNPDE20091111_023644_000000532084_00118_40252_3212.N1	11-NOV-2009 02:36:44	Straylight	52.500	165	34Gam Eri	2.9500	3200.0	105	40252	No
17	GOM_TRA_1PNPDE20091111_024229_000000492084_00118_40252_3213.N1	11-NOV-2009 02:42:29	Tw_i_and_stray	48.500	94	92Alp Cet	2.5260	3100.0	97	40252	No
18	GOM_TRA_1PNPDE20091111_024757_000000392084_00118_40252_3214.N1	11-NOV-2009 02:47:57	Bright	39.000	50	13Alp Ari	2.0070	4250.0	78	40252	No
19	GOM_TRA_1PNPDE20091111_025117_000000372084_00118_40252_3215.N1	11-NOV-2009 02:51:17	Bright	36.500	173	4Bet Tri	3.0040	8900.0	73	40252	No
20	GOM_TRA_1PNPDE20091111_025321_000000372084_00118_40252_3216.N1	11-NOV-2009 02:53:21	Bright	36.500	73	57Gam1And	2.2600	13100.	73	40252	No
21	GOM_TRA_1PNPDE20091111_025519_000000462084_00118_40252_3217.N1	11-NOV-2009 02:55:19	Bright	45.500	149	45Eps Per	2.8880	30000.	91	40252	No
22	GOM_TRA_1PNPDE20091111_025650_000000412084_00118_40252_3218.N1	11-NOV-2009 02:56:50	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40252	No
23	GOM_TRA_1PNPDE20091111_031422_000000432084_00118_40252_3217.N1	11-NOV-2009 03:14:22	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	40252	No
24	GOM_TRA_1PNPDE20091111_031600_000000432084_00118_40252_3218.N1	11-NOV-2009 03:16:00	Bright	42.500	82	48Bet UMa	2.3650	10600.	85	40252	No
25	GOM_TRA_1PNPDE20091111_031955_000000442084_00118_40252_3219.N1	11-NOV-2009 03:19:55	Bright	44.000	174	52Psi UMa	3.0040	4400.0	88	40252	No
26	GOM_TRA_1PNPDE20091111_032804_000000452084_00118_40252_3220.N1	11-NOV-2009 03:28:04	Bright	45.000	96	68Del Leo	2.5600	9300.0	90	40252	No
27	GOM_TRA_1PNPDE20091111_035540_000000472084_00119_40253_3221.N1	11-NOV-2009 03:55:40	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40253	No
28	GOM_TRA_1PNPDE20091111_040036_000000492084_00119_40253_3222.N1	11-NOV-2009 04:00:36	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	40253	No
29	GOM_TRA_1PNPDE20091111_041721_000000532084_00119_40253_3223.N1	11-NOV-2009 04:17:21	Straylight	53.000	165	34Gam Eri	2.9500	3200.0	106	40253	No
30	GOM_TRA_1PNPDE20091111_042305_000000492084_00119_40253_3224.N1	11-NOV-2009 04:23:05	Tw_i_and_stray	48.500	94	92Alp Cet	2.5260	3100.0	97	40253	No
31	GOM_TRA_1PNPDE20091111_042833_000000402084_00119_40253_3225.N1	11-NOV-2009 04:28:33	Bright	39.500	50	13Alp Ari	2.0070	4250.0	79	40253	No
32	GOM_TRA_1PNPDE20091111_043153_000000372084_00119_40253_3226.N1	11-NOV-2009 04:31:53	Bright	37.000	173	4Bet Tri	3.0040	8900.0	74	40253	No
33	GOM_TRA_1PNPDE20091111_043357_000000372084_00119_40253_3227.N1	11-NOV-2009 04:33:57	Bright	37.000	73	57Gam1And	2.2600	13100.	74	40253	No
34	GOM_TRA_1PNPDE20091111_043555_000000452084_00119_40253_3228.N1	11-NOV-2009 04:35:55	Bright	44.500	149	45Eps Per	2.8880	30000.	89	40253	No
35	GOM_TRA_1PNPDE20091111_043726_000000412084_00119_40253_3229.N1	11-NOV-2009 04:37:26	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40253	No
36	GOM_TRA_1PNPDE20091111_045458_000000422084_00119_40253_3223.N1	11-NOV-2009 04:54:58	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	40253	No
37	GOM_TRA_1PNPDE20091111_045636_000000412084_00119_40253_3224.N1	11-NOV-2009 04:56:36	Bright	40.500	82	48Bet UMa	2.3650	10600.	81	40253	No
38	GOM_TRA_1PNPDE20091111_050031_000000432084_00119_40253_3225.N1	11-NOV-2009 05:00:31	Bright	42.500	174	52Psi UMa	3.0040	4400.0	85	40253	No
39	GOM_TRA_1PNPDE20091111_050840_000000452084_00119_40253_3226.N1	11-NOV-2009 05:08:40	Bright	44.500	96	68Del Leo	2.5600	9300.0	89	40253	No
40	GOM_TRA_1PNPDE20091111_053617_000000472084_00120_40254_3227.N1	11-NOV-2009 05:36:17	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40254	No
41	GOM_TRA_1PNPDE20091111_054113_000000582084_00120_40254_3228.N1	11-NOV-2009 05:41:13	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	40254	No
42	GOM_TRA_1PNPDE20091111_055757_000000552084_00120_40254_3229.N1	11-NOV-2009 05:57:57	Straylight	55.000	165	34Gam Eri	2.9500	3200.0	110	40254	No
43	GOM_TRA_1PNPDE20091111_060341_000000482084_00120_40254_3230.N1	11-NOV-2009 06:03:41	Tw_i_and_stray	48.000	94	92Alp Cet	2.5260	3100.0	96	40254	No
44	GOM_TRA_1PNPDE20091111_060909_000000382084_00120_40254_3231.N1	11-NOV-2009 06:09:09	Bright	38.000	50	13Alp Ari	2.0070	4250.0	76	40254	No
45	GOM_TRA_1PNPDE20091111_061229_000000362084_00120_40254_3232.N1	11-NOV-2009 06:12:29	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	40254	No
46	GOM_TRA_1PNPDE20091111_061433_000000392084_00120_40254_3233.N1	11-NOV-2009 06:14:33	Bright	39.000	73	57Gam1And	2.2600	13100.	78	40254	No
47	GOM_TRA_1PNPDE20091111_061630_000000462084_00120_40254_3234.N1	11-NOV-2009 06:16:30	Bright	46.000	149	45Eps Per	2.8880	30000.	92	40254	No
48	GOM_TRA_1PNPDE20091111_061801_000000422084_00120_40254_3235.N1	11-NOV-2009 06:18:01	Bright	42.000	35	33Alp Per	1.7950	6250.0	84	40254	No
49	GOM_TRA_1PNPDE20091111_210320_000000532084_00129_40263_3275.N1	11-NOV-2009 21:03:20	Straylight	52.500	165	34Gam Eri	2.9500	3200.0	105	40263	No
50	GOM_TRA_1PNPDE20091111_210903_000000492084_00129_40263_3276.N1	11-NOV-2009 21:09:03	Tw_i_and_stray	49.000	94	92Alp Cet	2.5260	3100.0	98	40263	No
51	GOM_TRA_1PNPDE20091111_211432_000000402084_00129_40263_3277.N1	11-NOV-2009 21:14:32	Bright	39.500	50	13Alp Ari	2.0070	4250.0	79	40263	No
52	GOM_TRA_1PNPDE20091111_211631_000000372084_00129_40263_3278.N1	11-NOV-2009 21:16:31	Bright	37.000	146	25Eta Tau	2.8730	15200.	74	40263	No
53	GOM_TRA_1PNPDE20091111_211751_000000352084_00129_40263_3279.N1	11-NOV-2009 21:17:51	Bright	35.000	173	4Bet Tri	3.0040	8900.0	70	40263	No
54	GOM_TRA_1PNPDE20091111_211955_000000392084_00129_40263_3280.N1	11-NOV-2009 21:19:55	Bright	38.500	73	57Gam1And	2.2600	13100.	77	40263	No
55	GOM_TRA_1PNPDE20091111_212147_000000452084_00129_40263_3281.N1	11-NOV-2009 21:21:47	Bright	44.500	149	45Eps Per	2.8880	30000.	89	40263	No
56	GOM_TRA_1PNPDE20091111_212321_000000422084_00129_40263_3282.N1	11-NOV-2009 21:23:21	Bright	41.500	35	33Alp Per	1.7950	6250.0	83	40263	No
57	GOM_TRA_1PNPDE20091111_214055_000000432084_00129_40263_3283.N1	11-NOV-2009 21:40:55	Bright	43.000	36	50Alp UMa	1.8000	6300.0	86	40263	No
58	GOM_TRA_1PNPDE20091111_214233_000000482084_00129_40263_3284.N1	11-NOV-2009 21:42:33	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	40263	No
59	GOM_TRA_1PNPDE20091111_214630_000000412084_00129_40263_3285.N1	11-NOV-2009 21:46:30	Bright	41.000	174	52Psi UMa	3.0040	4400.0	82	40263	No
60	GOM_TRA_1PNPDE20091111_215443_000000472084_00129_40263_3286.N1	11-NOV-2009 21:54:43	Bright	46.500	96	68Del Leo	2.5600	9300.0	93	40263	No
61	GOM_TRA_1PNPDE20091111_222226_000000502084_00130_40264_3281.N1	11-NOV-2009 22:22:26	Dark	50.000	34	Gam2Vel	1.7930	23000.	100	40264	No
62	GOM_TRA_1PNPDE20091111_222719_000000622084_00130_40264_3282.N1	11-NOV-2009 22:27:19	Dark	62.000	2	Alp Car	-0.73600	7000.0	124	40264	No
63	GOM_TRA_1PNPDE20091111_224356_000000532084_00130_40264_3283.N1	11-NOV-2009 22:43:56	Straylight	52.500	165	34Gam Eri	2.9500	3200.0	105	40264	No
64	GOM_TRA_1PNPDE20091111_224939_000000472084_00130_40264_3284.N1	11-NOV-2009 22:49:39	Tw_i_and_stray	47.000	94	92Alp Cet	2.5260	3100.0	94	40264	No
65	GOM_TRA_1PNPDE20091111_225508_000000402084_00130_40264_3285.N1	11-NOV-2009 22:55:08	Bright	40.000	50	13Alp Ari	2.0070	4250.0	80	40264	No
66	GOM_TRA_1PNPDE20091111_225707_000000432084_00130_40264_3286.N1	11-NOV-2009 22:57:07	Bright	43.000	146	25Eta Tau	2.8730	15200.	86	40264	No
67	GOM_TRA_1PNPDE20091111_225827_000000362084_00130_40264_3287.N1	11-NOV-2009 22:58:27	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	40264	No
68	GOM_TRA_1PNPDE20091111_230031_000000362084_00130_40264_3288.N1	11-NOV-2009 23:00:31	Bright	35.500	73	57Gam1And	2.2600	13100.	71	40264	No
69	GOM_TRA_1PNPDE20091111_230222_000000452084_00130_40264_3289.N1	11-NOV-2009 23:02:22	Bright	44.500	149	45Eps Per	2.8880	30000.	89	40264	No

70	GOM_TRA_1PNPDE20091111_230356_000000412084_00130_40264_3290.N1	11-NOV-2009 23:03:56	Bright	41.000	35	33Alp Per	1.7950	6250.0	82	40264	No
71	GOM_TRA_1PNPDE20091111_232131_000000412084_00130_40264_3291.N1	11-NOV-2009 23:21:31	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	40264	No
72	GOM_TRA_1PNPDE20091111_232309_000000592084_00130_40264_3292.N1	11-NOV-2009 23:23:09	Bright	59.000	82	48Bet UMa	2.3650	10600.	118	40264	No
73	GOM_TRA_1PNPDE20091111_232706_000000412084_00130_40264_3293.N1	11-NOV-2009 23:27:06	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	40264	No
74	GOM_TRA_1PNPDE20091111_233519_000000652084_00130_40264_3294.N1	11-NOV-2009 23:35:19	Bright	64.500	96	68Del Leo	2.5600	9300.0	129	40264	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).

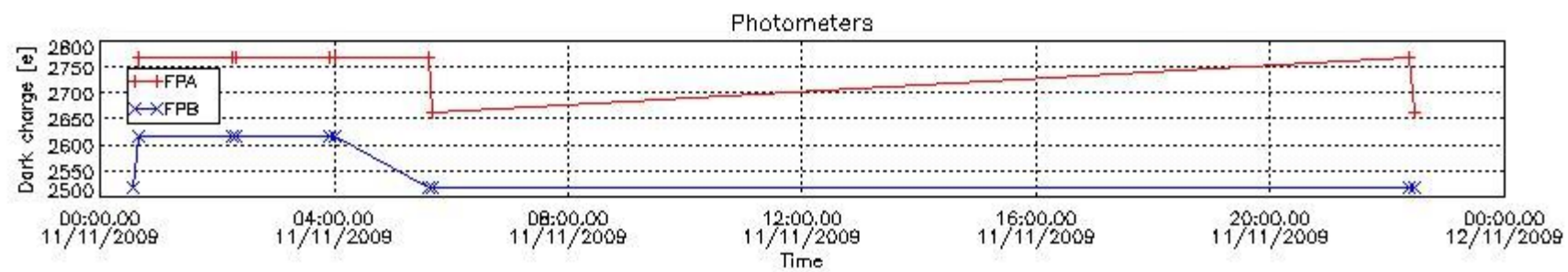
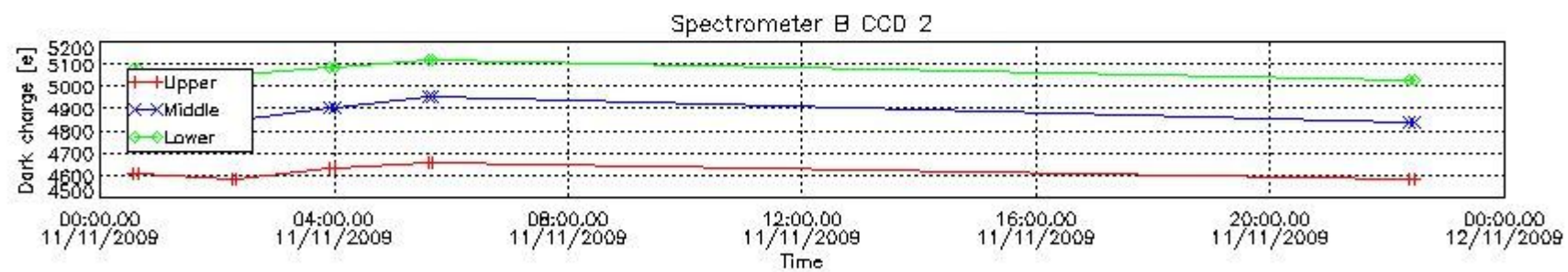
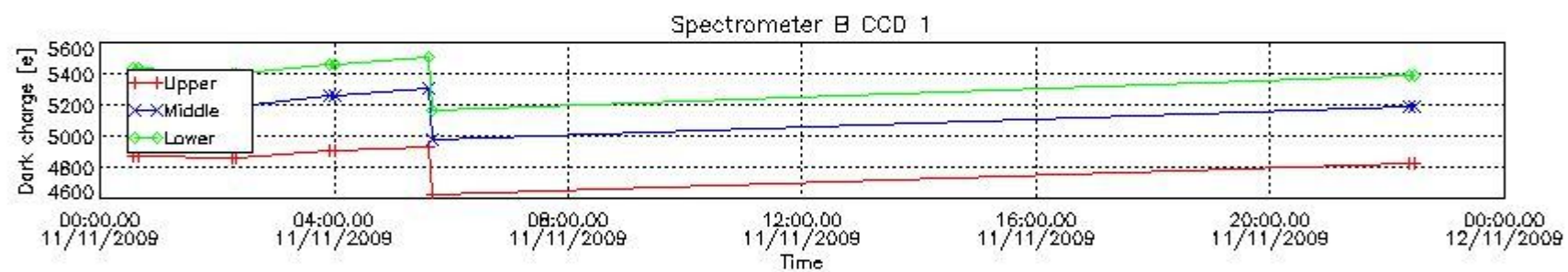
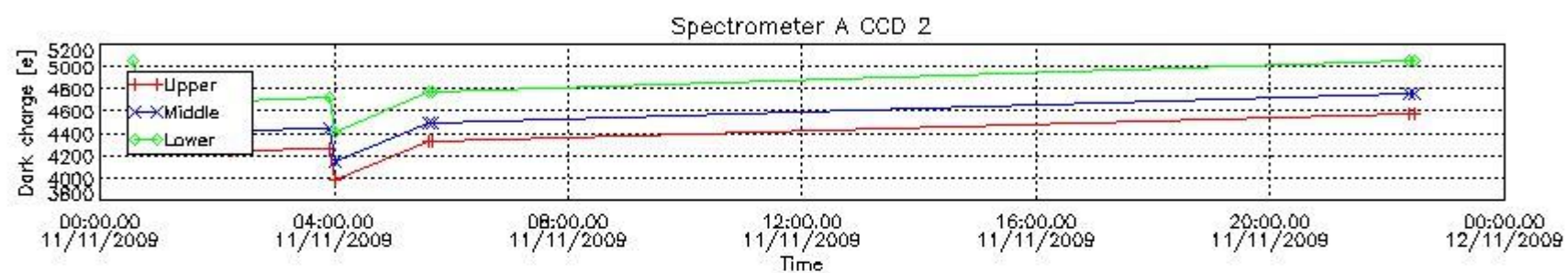
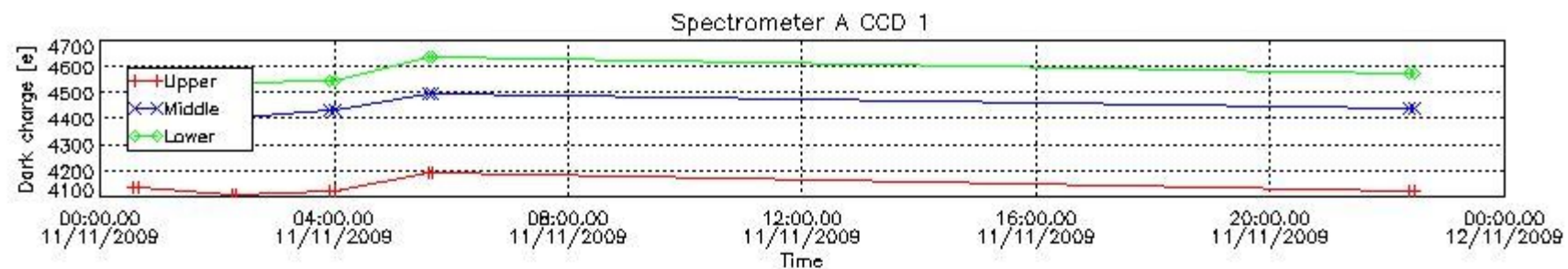
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20091111_210320_000000532084_00129_40263_3275.N1	DC map used
GOM_TRA_1PNPDE20091111_210903_000000492084_00129_40263_3276.N1	DC map used
GOM_TRA_1PNPDE20091111_211432_000000402084_00129_40263_3277.N1	DC map used
GOM_TRA_1PNPDE20091111_211631_000000372084_00129_40263_3278.N1	DC map used
GOM_TRA_1PNPDE20091111_211751_000000352084_00129_40263_3279.N1	DC map used

GOM_TRA_1PNPDE20091111_211955_000000392084_00129_40263_3280.N1	DC map used
GOM_TRA_1PNPDE20091111_212147_000000452084_00129_40263_3281.N1	DC map used
GOM_TRA_1PNPDE20091111_212321_000000422084_00129_40263_3282.N1	DC map used
GOM_TRA_1PNPDE20091111_214055_000000432084_00129_40263_3283.N1	DC map used
GOM_TRA_1PNPDE20091111_214233_000000482084_00129_40263_3284.N1	DC map used
GOM_TRA_1PNPDE20091111_214630_000000412084_00129_40263_3285.N1	DC map used
GOM_TRA_1PNPDE20091111_215443_000000472084_00129_40263_3286.N1	DC map used

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



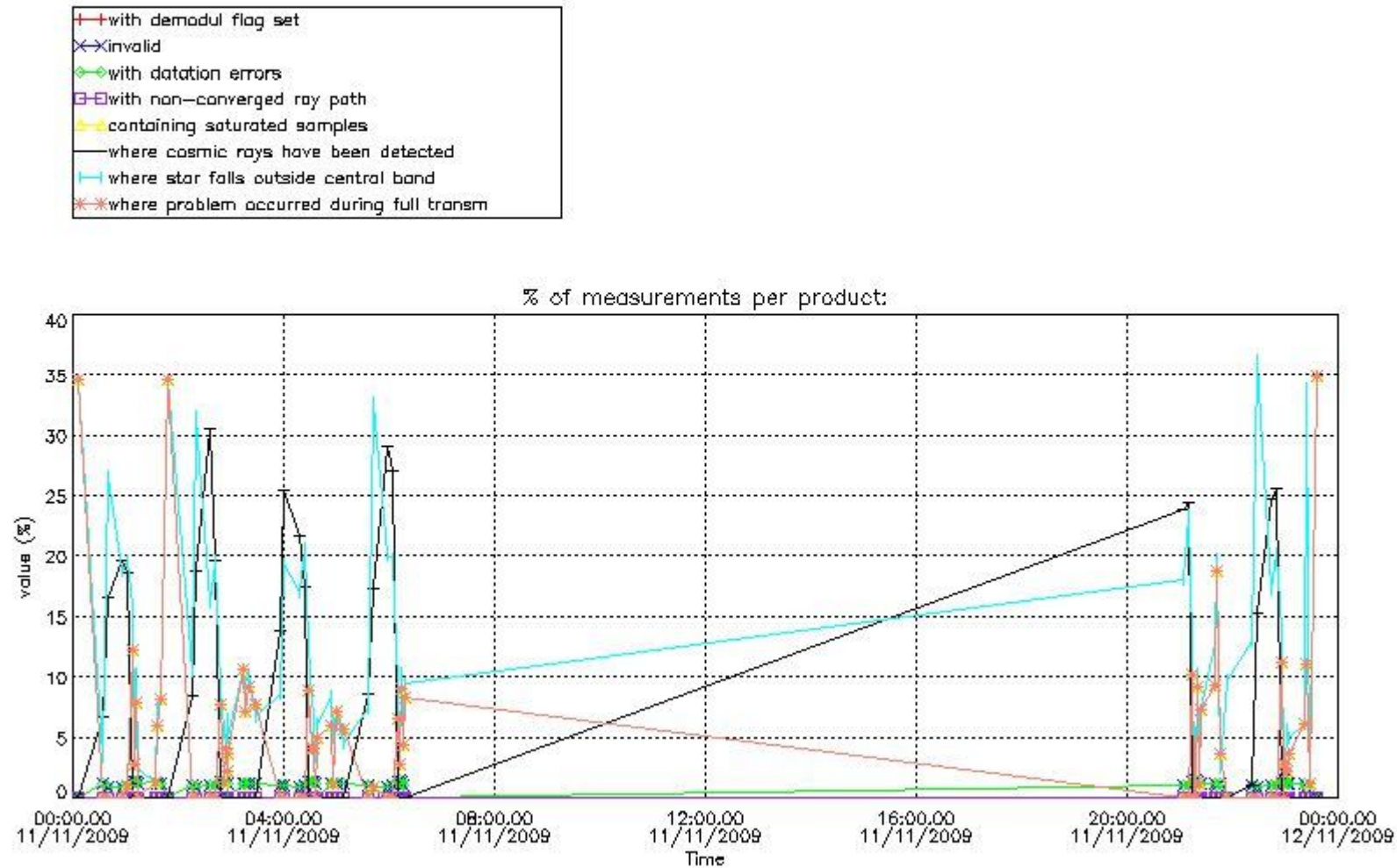
5. Demodulation flag and quality information monitoring

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.

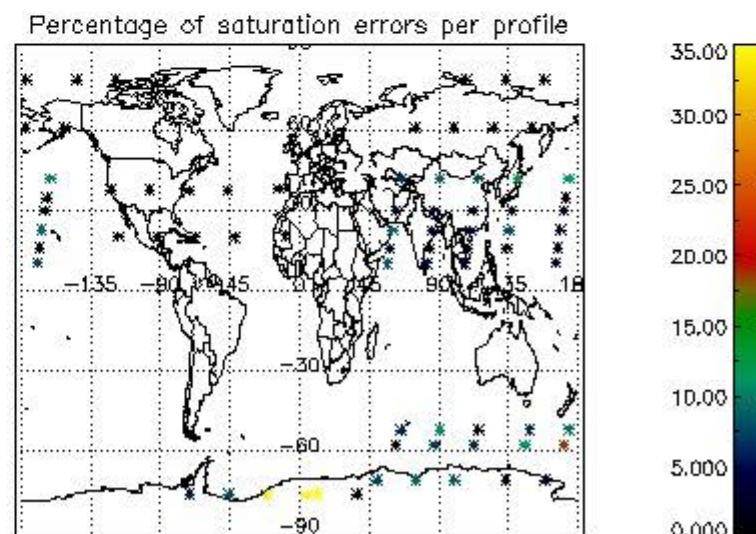
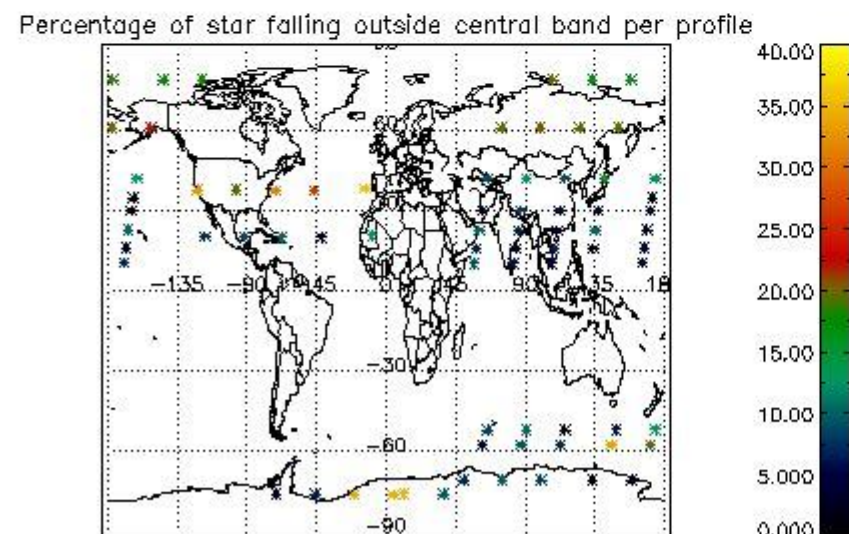
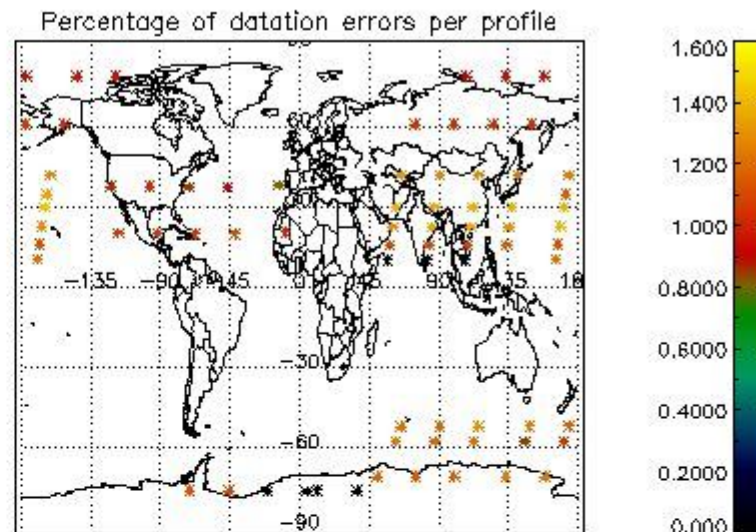
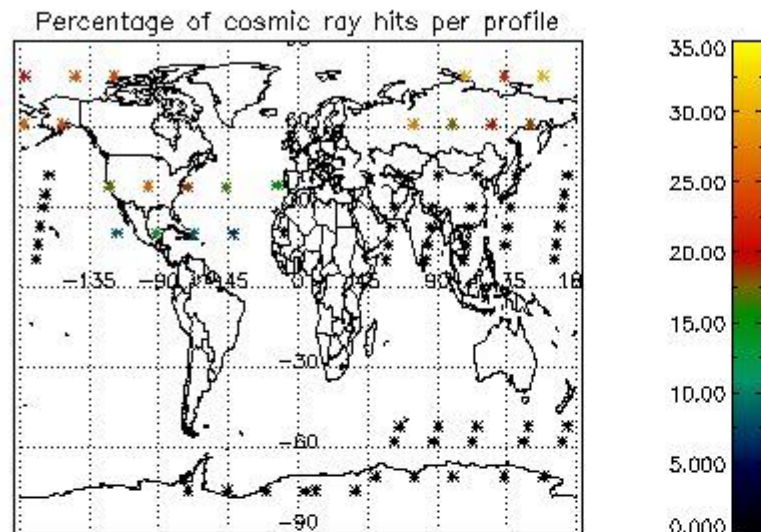
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.6757 %
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)



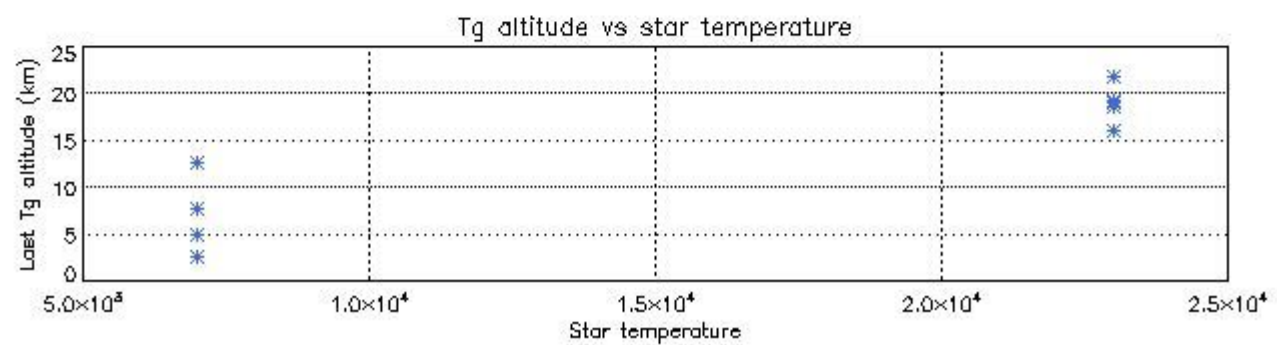
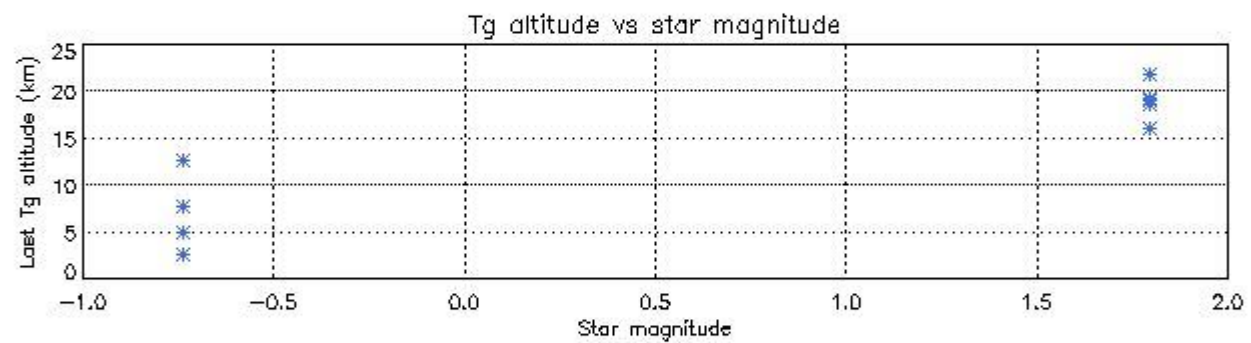
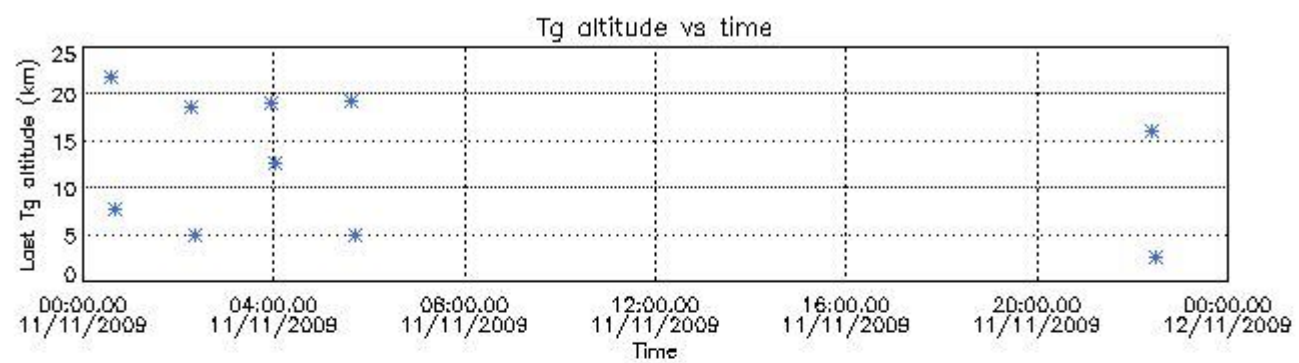
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.753	19.387	NaN
St. deviation:	7.1438	6.1590	NaN
Maximum:	21.820	42.308	NaN
Minimum:	2.5415	3.7614	NaN
Number of data:	10.000	52.000	NaN

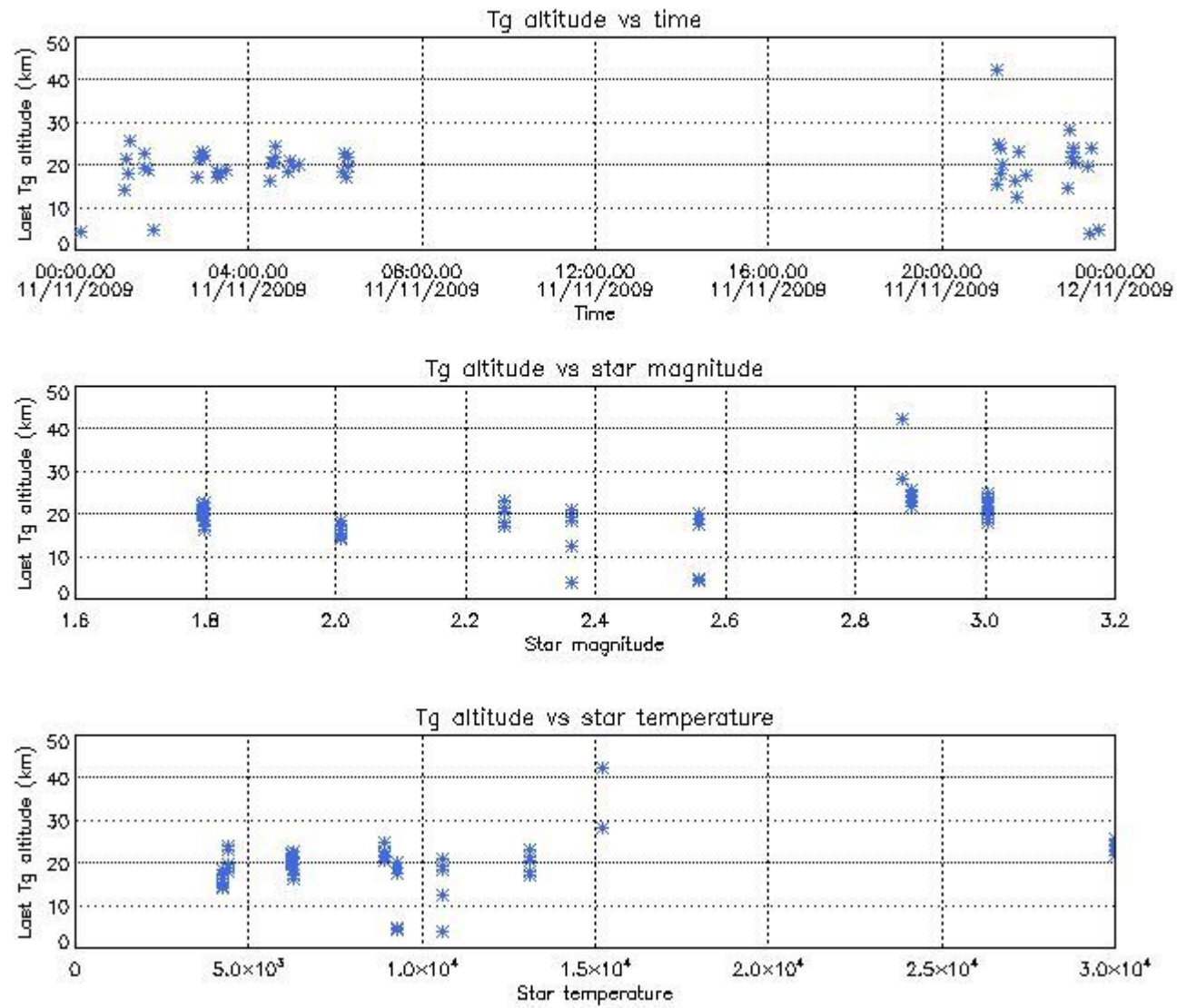
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

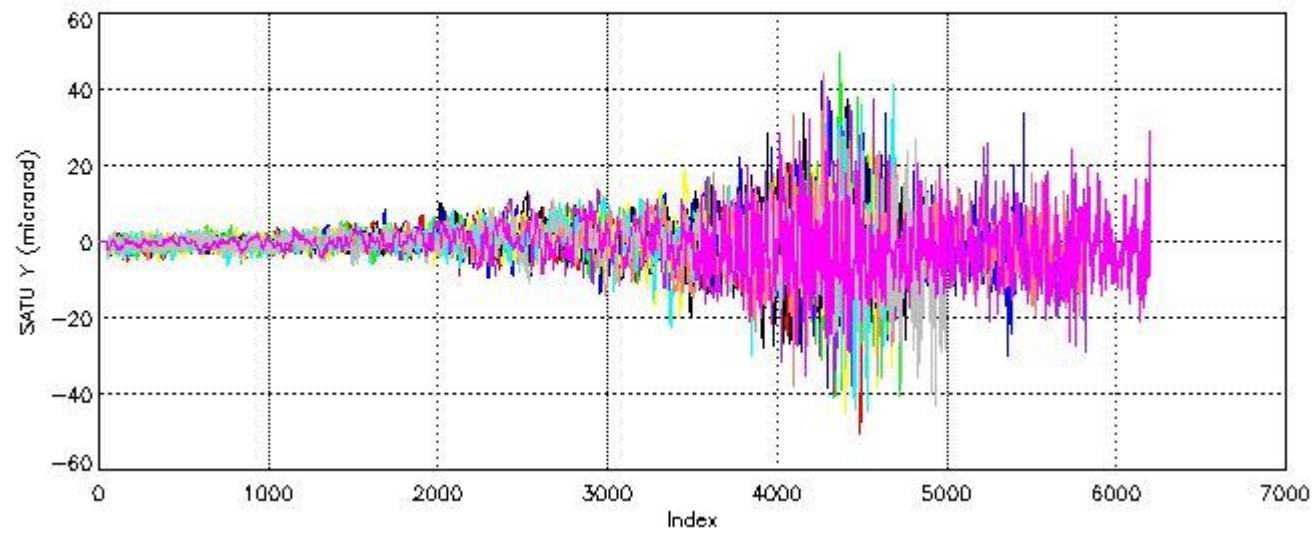
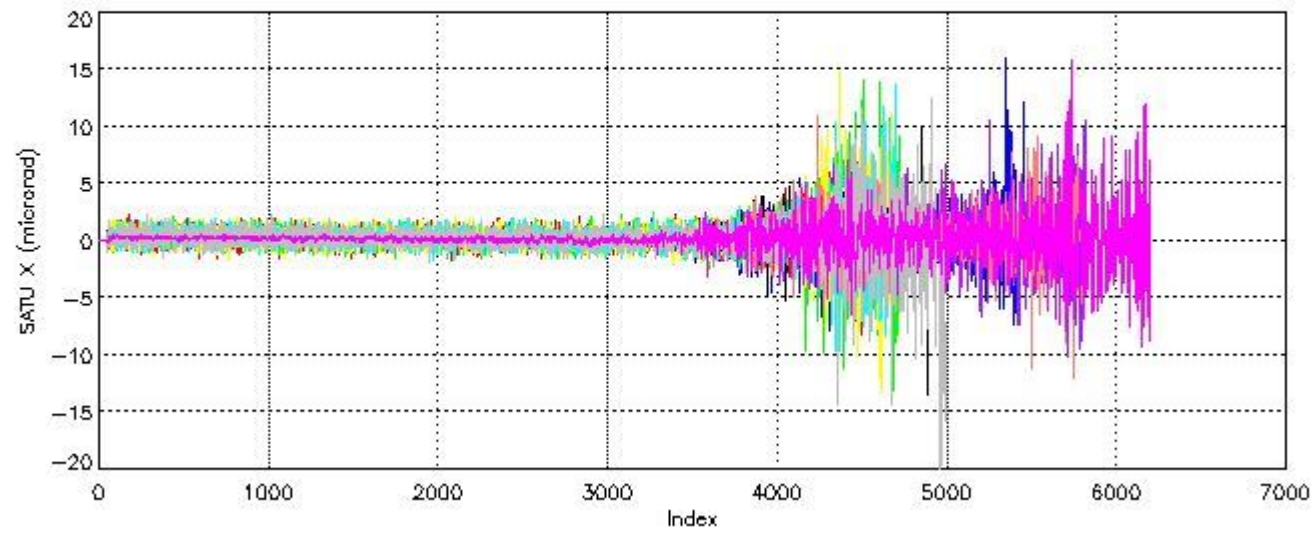


7. Star Acquisition and Tracking Unit (SATU)

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:	0.28094	-0.57094	0.21436	-0.41660
St. deviation:	0.34823	1.2260	0.92179	2.1778
Maximum:	2.3000	4.2000	6.7000	9.3000
Minimum:	-1.8000	-6.1000	-6.6000	-13.400

Number of data:	10500.	10500.	49500.	49500.
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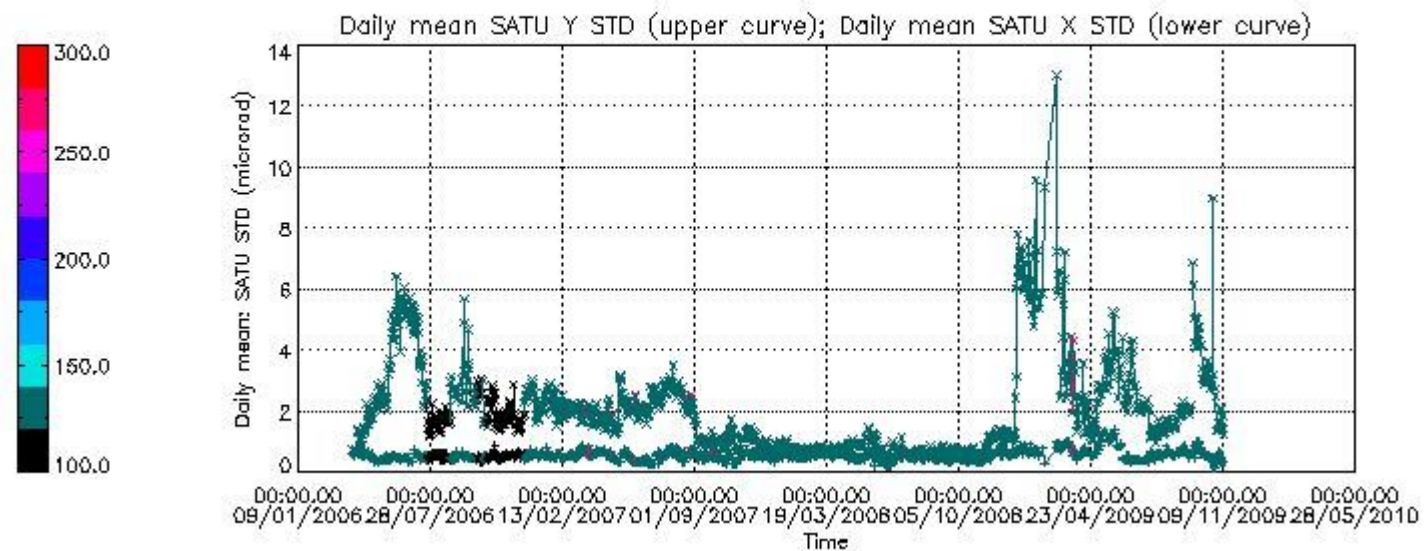
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

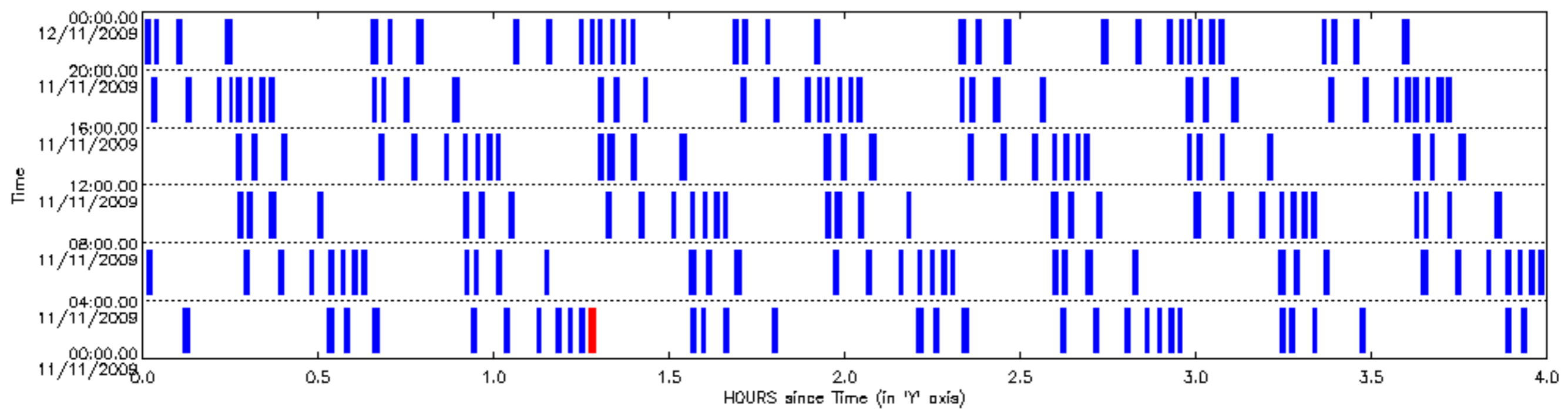
Lower curve: STD of SATU X axis

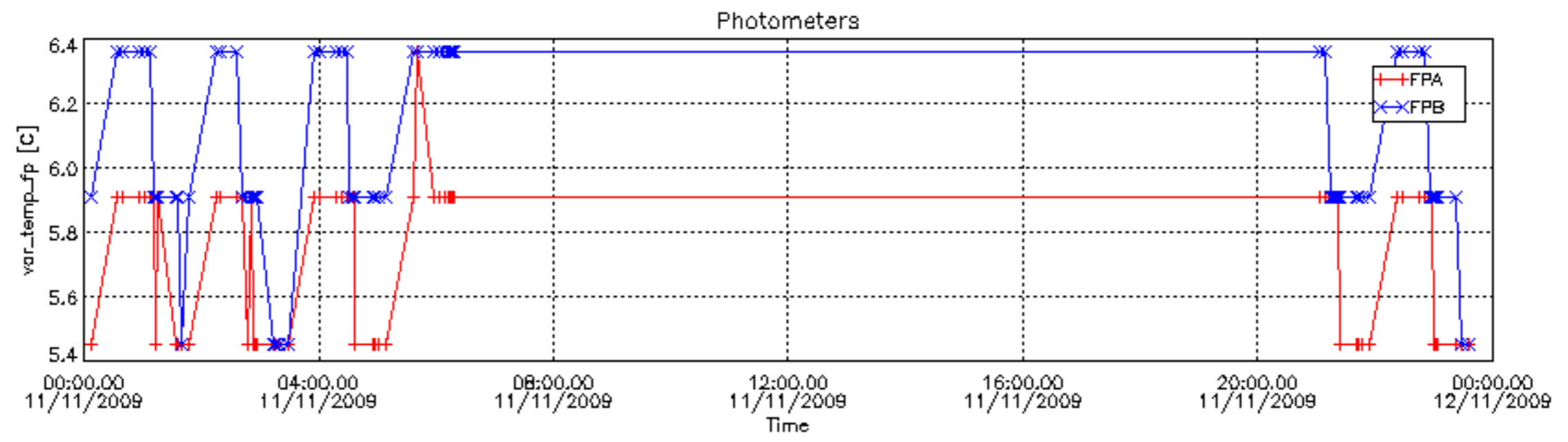
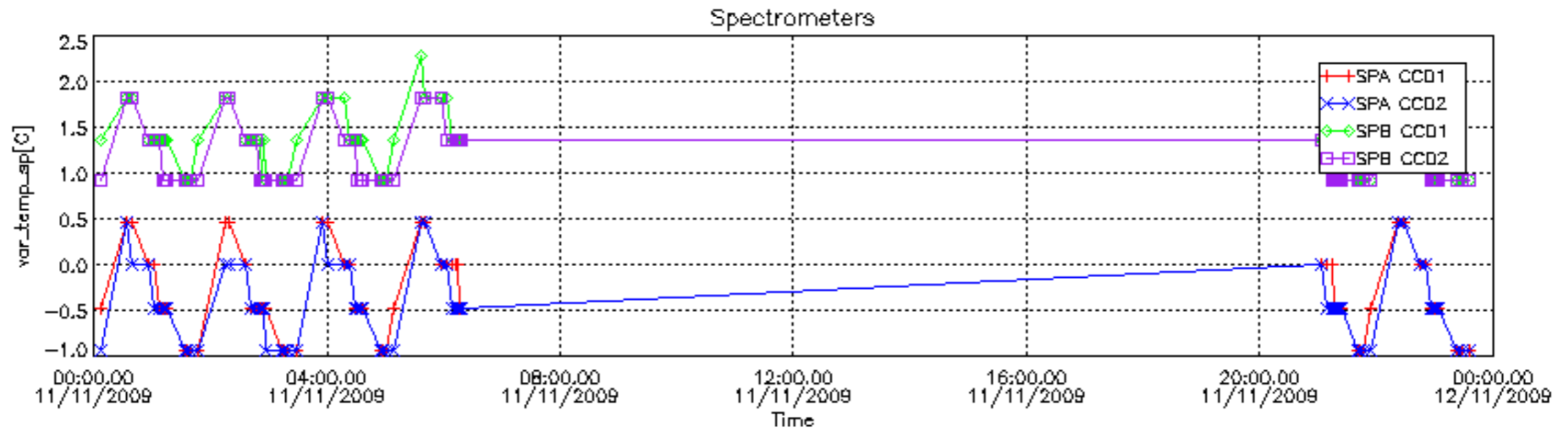


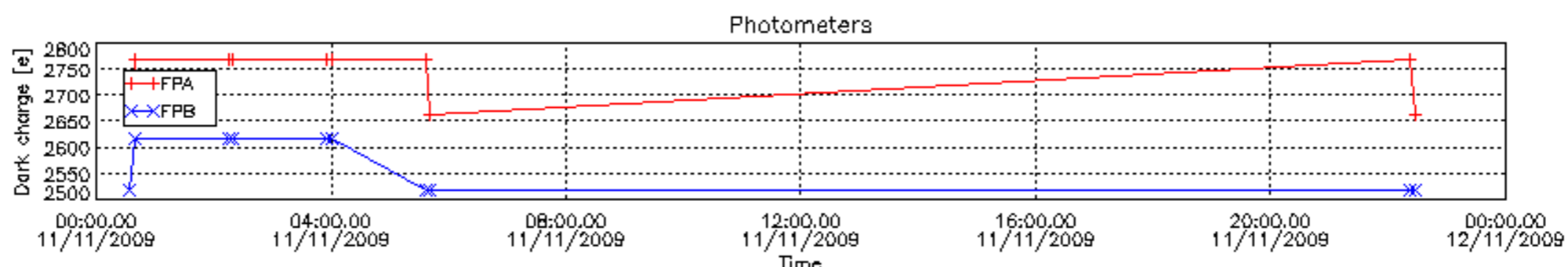
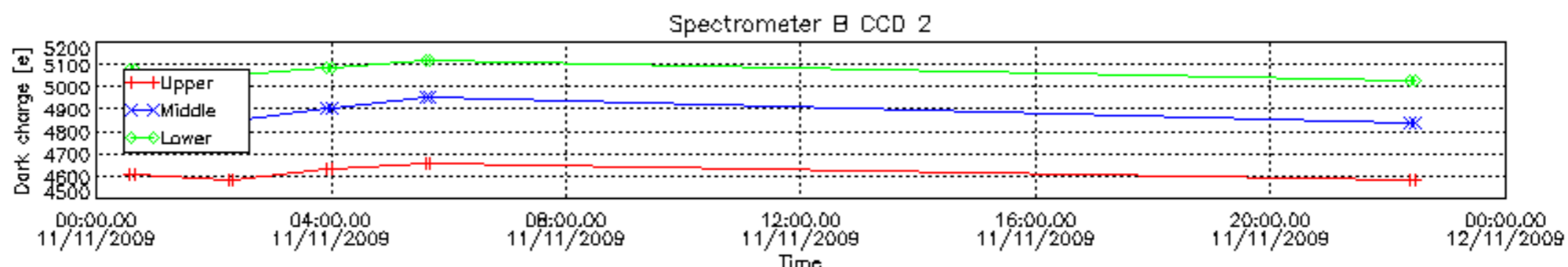
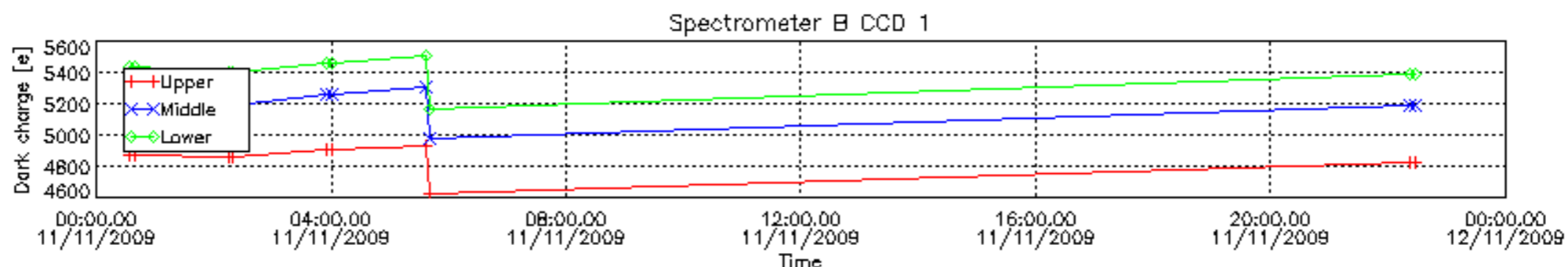
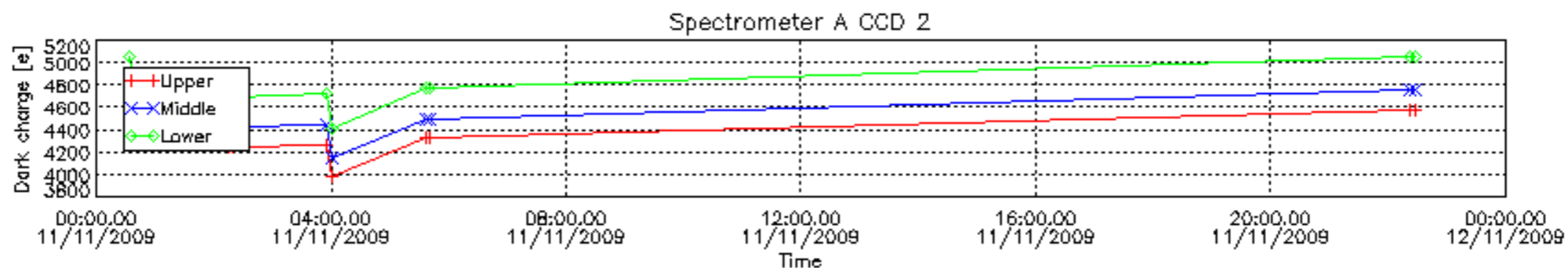
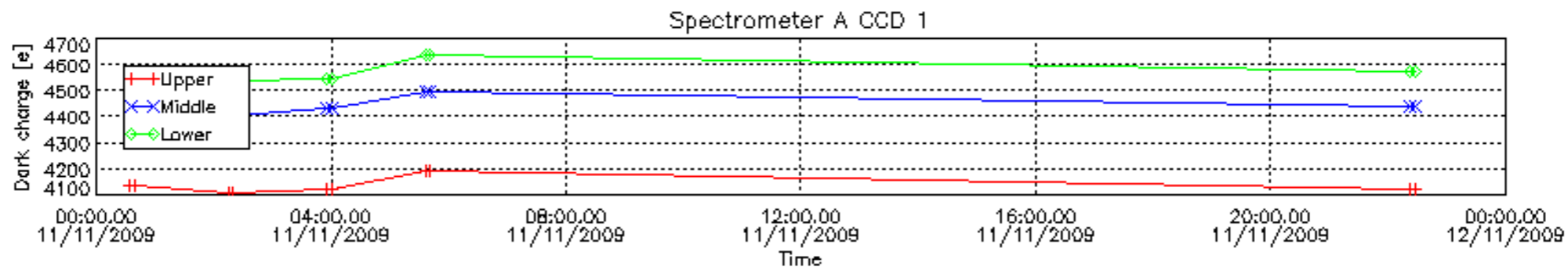
8. Auxiliary Data Files used for the production reported in section 2.4

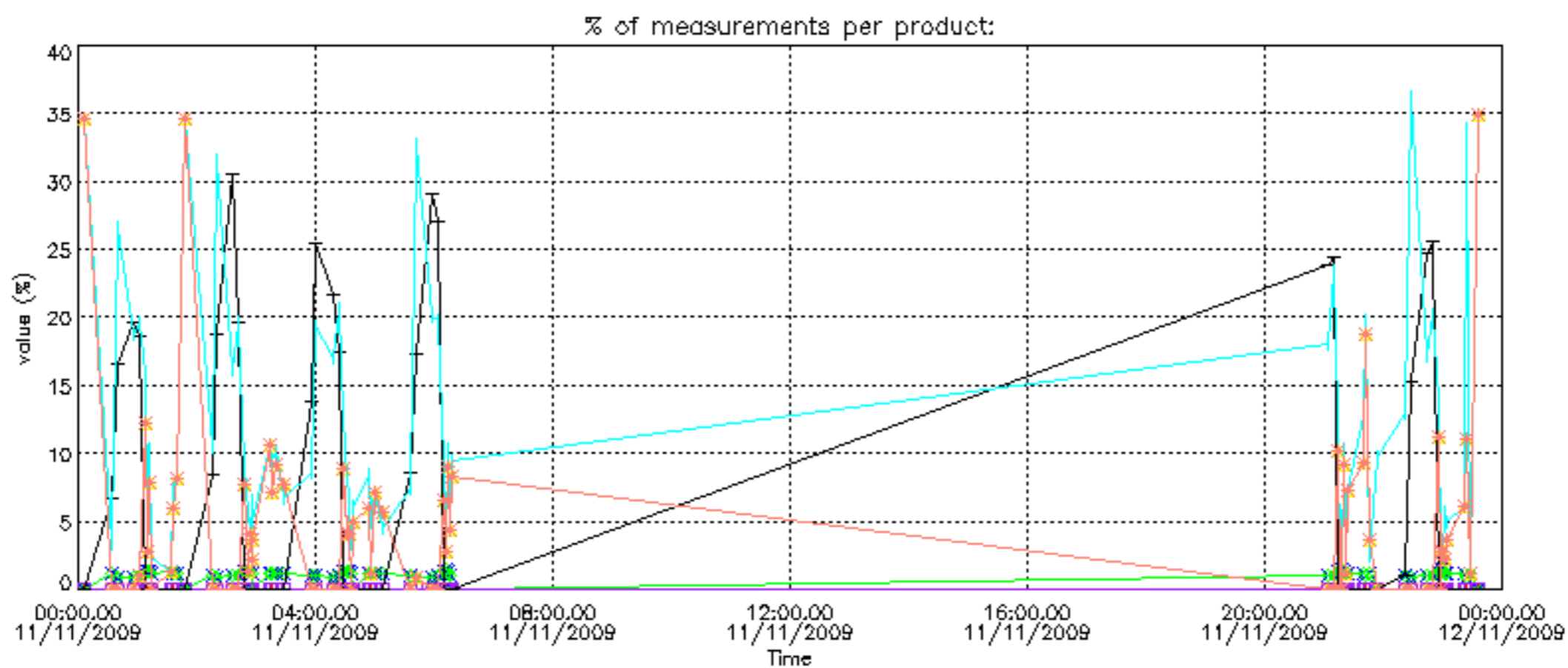
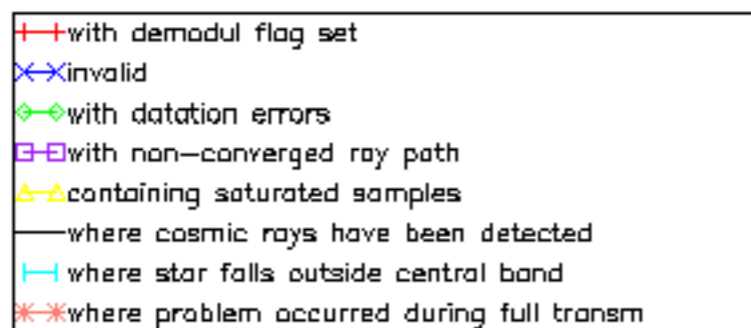
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	11-NOV-2009 00:06:51
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	49	11-NOV-2009 21:03:20
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091106_091155_20091104_000000_20100101_000000	1	11-NOV-2009 00:06:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	11-NOV-2009 00:06:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	49	11-NOV-2009 21:03:20
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-NOV-2009 00:06:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	11-NOV-2009 00:06:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	49	11-NOV-2009 21:03:20
ECMWF_FILE	AUX_ECF_AXNECM20091110_064113_20091110_210000_20091111_090000	1	11-NOV-2009 00:06:51
ECMWF_FILE	AUX_ECF_AXNECM20091110_184112_20091111_030000_20091111_150000	23	11-NOV-2009 03:14:22
ECMWF_FILE	AUX_ECA_AXNECM20091111_062112_20091110_210000_20091111_090000	36	11-NOV-2009 04:54:58
ECMWF_FILE	AUX_ECF_AXNECM20091111_064113_20091111_210000_20091112_090000	49	11-NOV-2009 21:03:20
OPTIONAL_ECMWF_FILE	MISSING	1	11-NOV-2009 00:06:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091110_223300_000057382084_00115_40249_9141.N1	1	11-NOV-2009 00:06:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091111_001357_000054192084_00116_40250_9142.N1	2	11-NOV-2009 00:34:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091111_014935_000041442084_00117_40251_9143.N1	14	11-NOV-2009 02:15:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091111_030358_000060572084_00118_40252_9144.N1	23	11-NOV-2009 03:14:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091111_045014_000054192084_00119_40253_9145.N1	36	11-NOV-2009 04:54:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091111_205155_000038252084_00129_40263_9146.N1	49	11-NOV-2009 21:03:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091111_220059_000057382084_00129_40263_9147.N1	61	11-NOV-2009 22:22:26

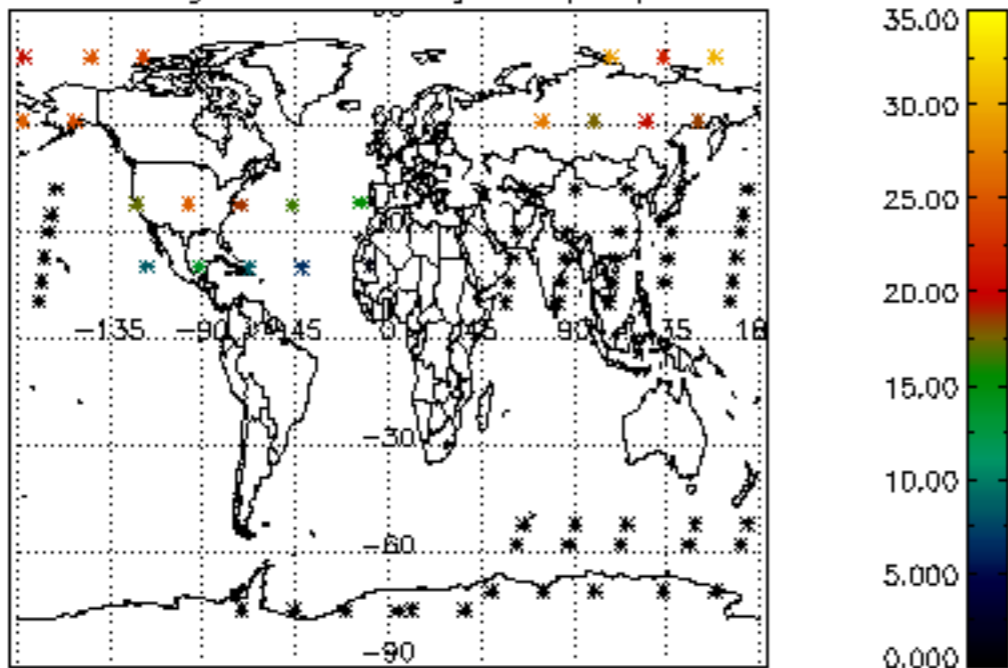




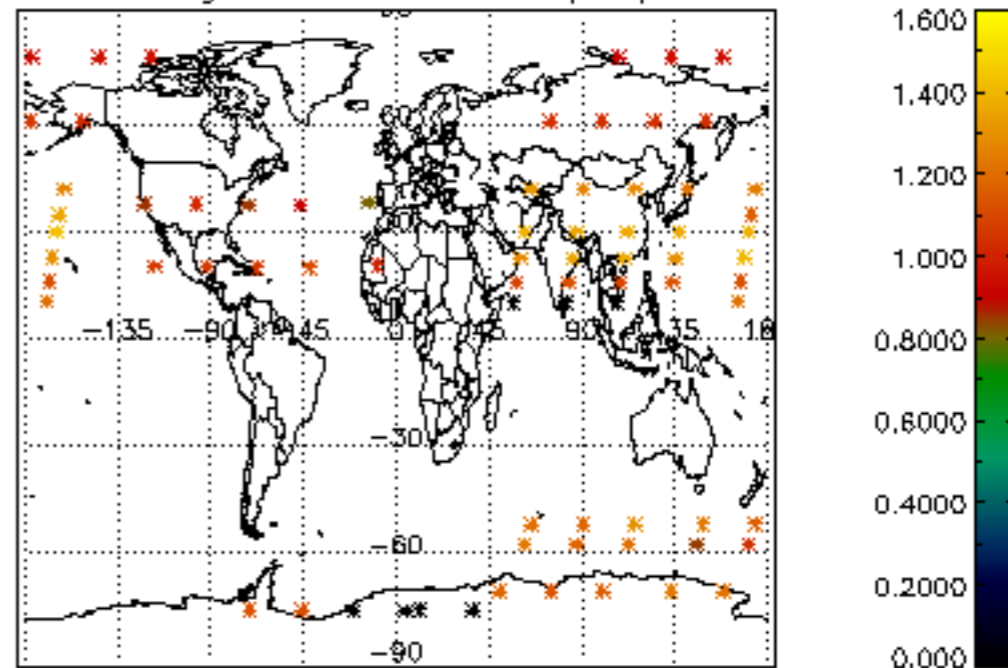




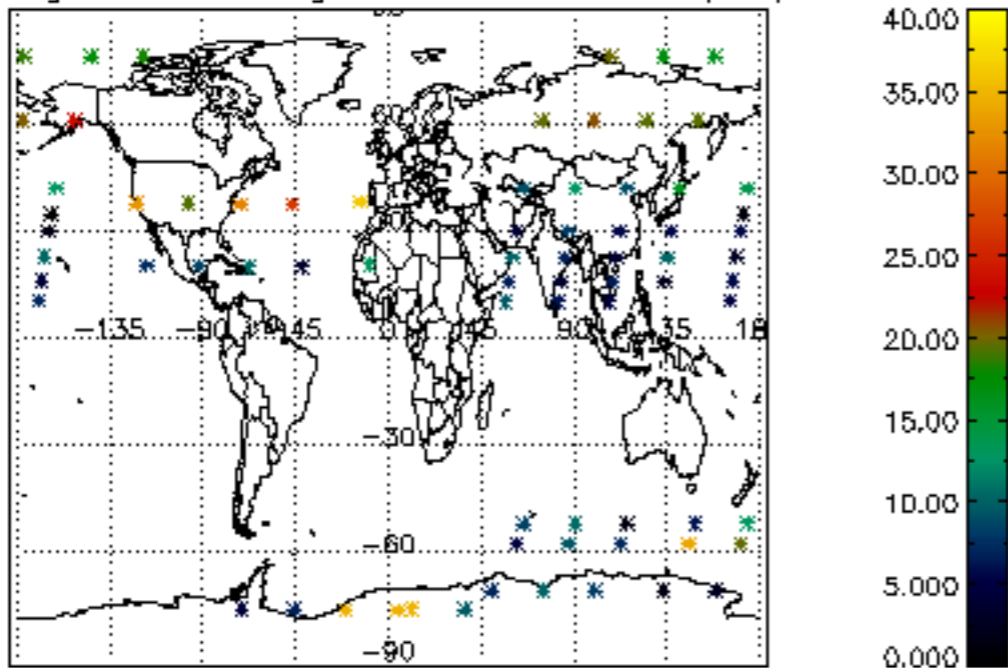
Percentage of cosmic ray hits per profile



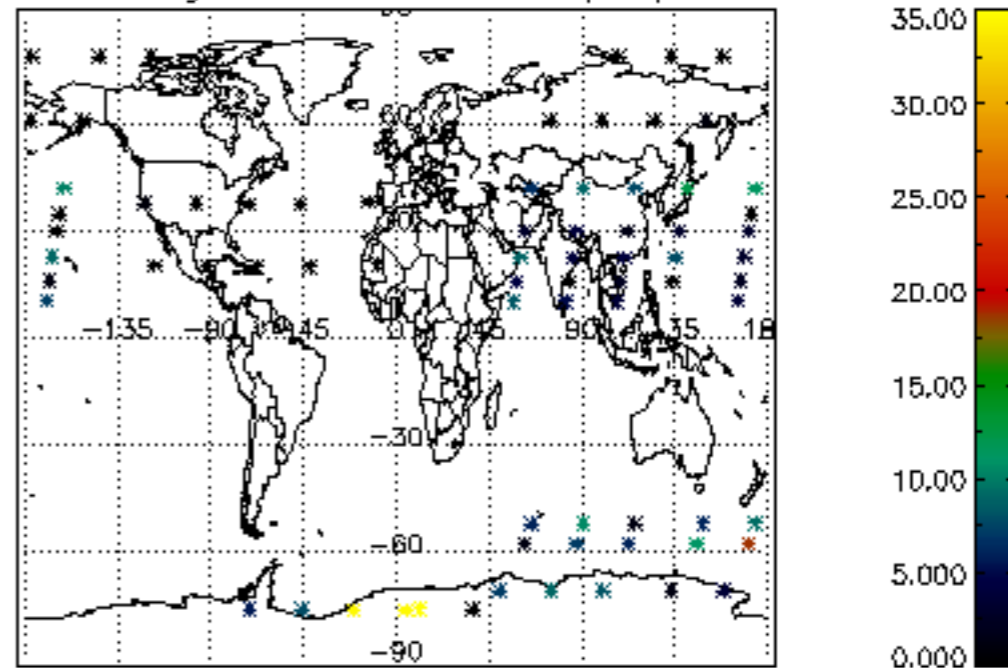
Percentage of datation errors per profile



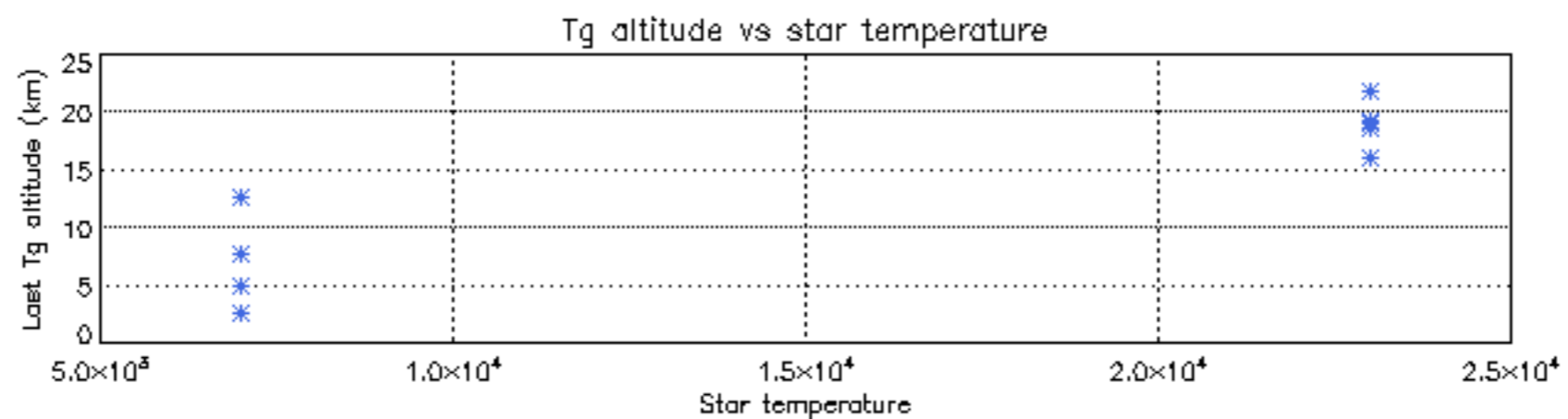
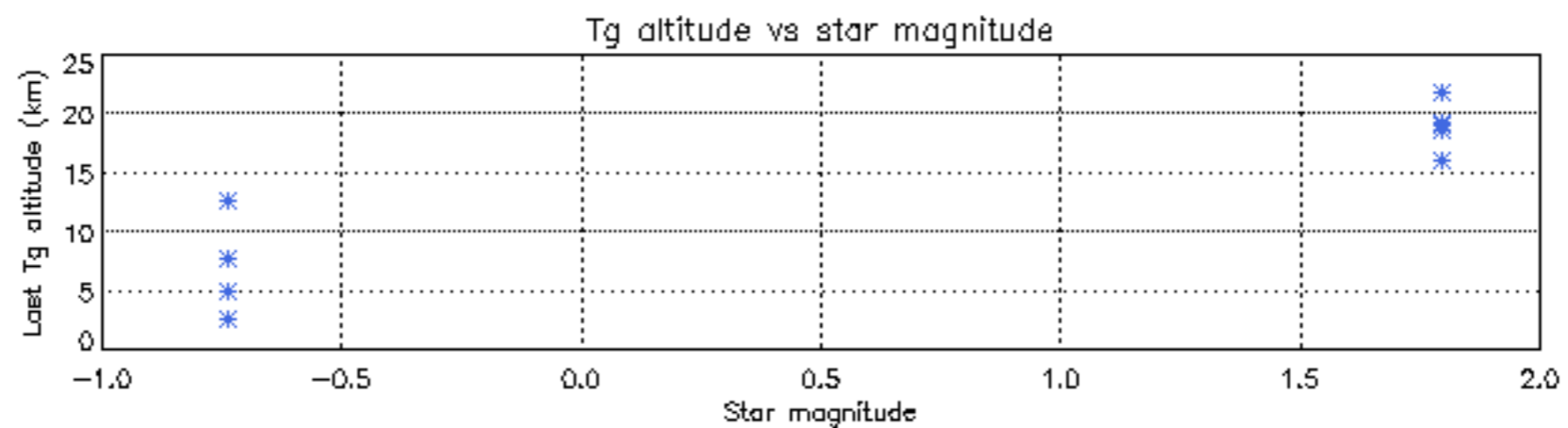
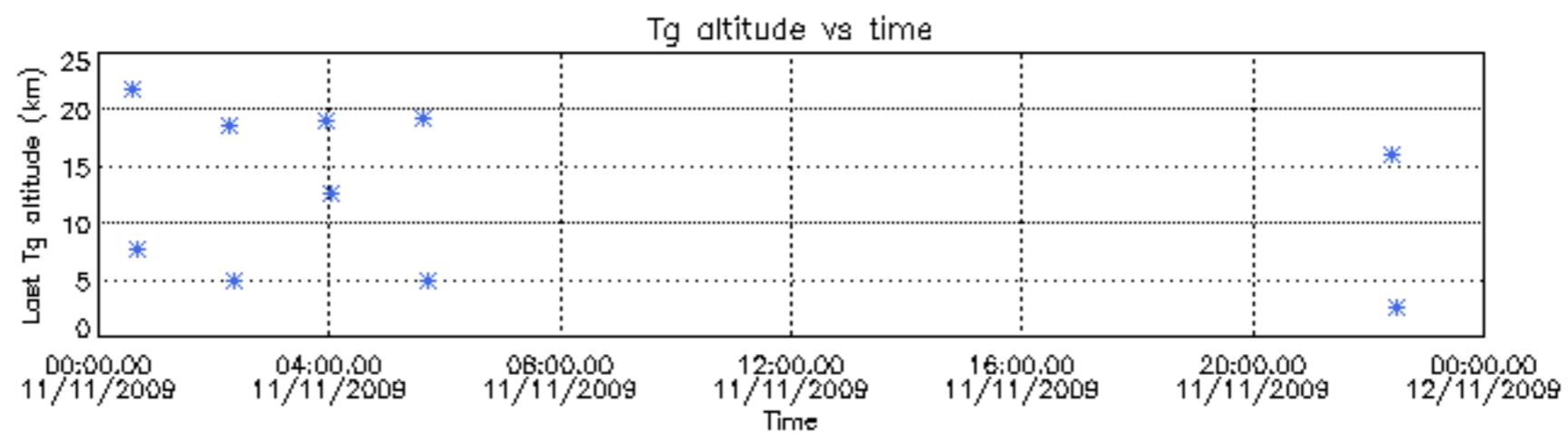
Percentage of star falling outside central band per profile



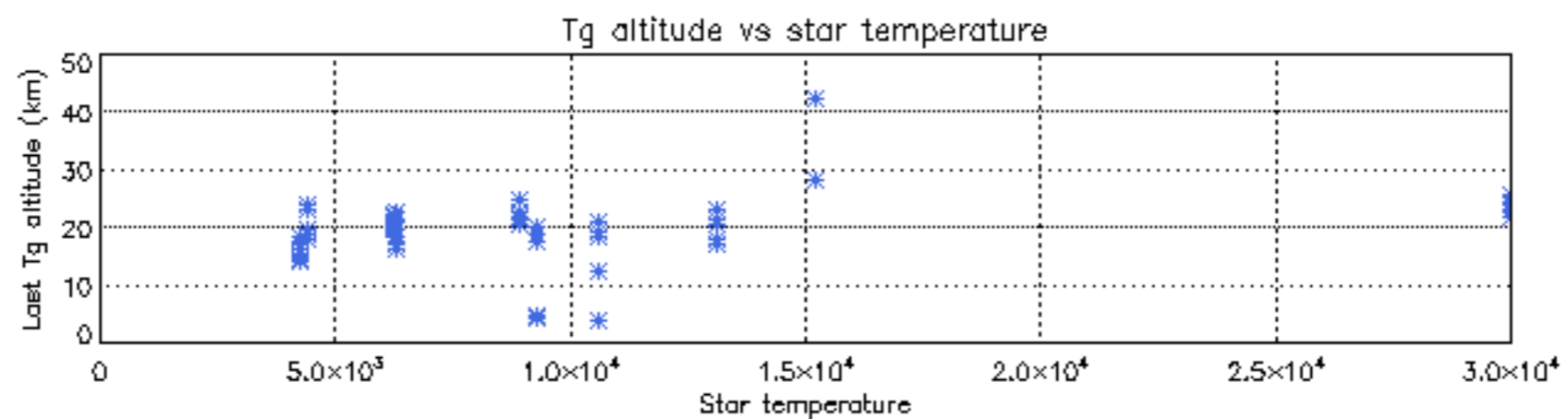
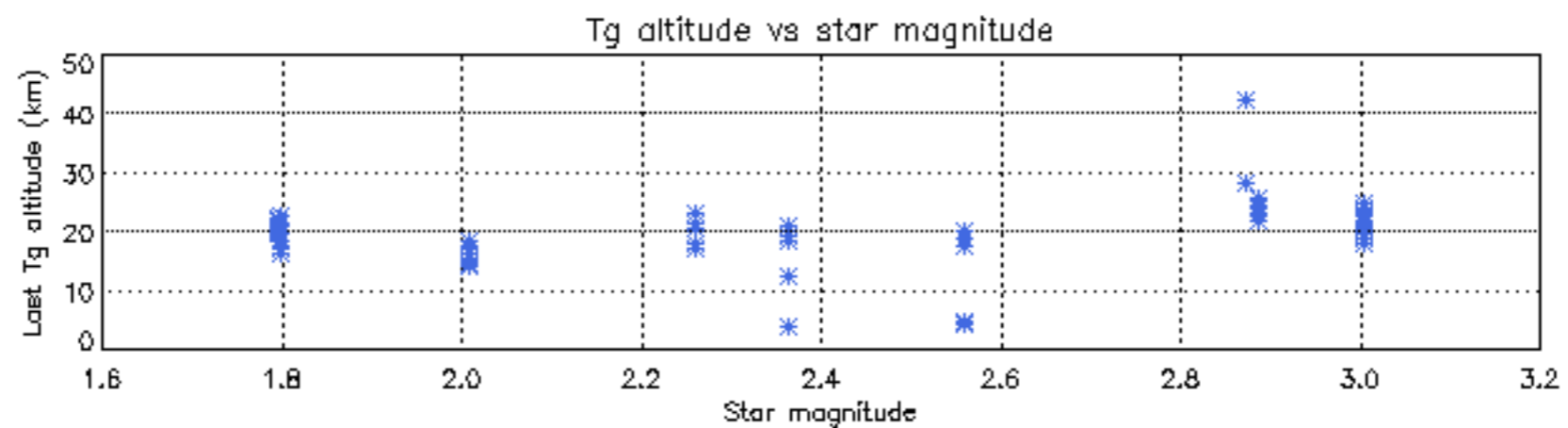
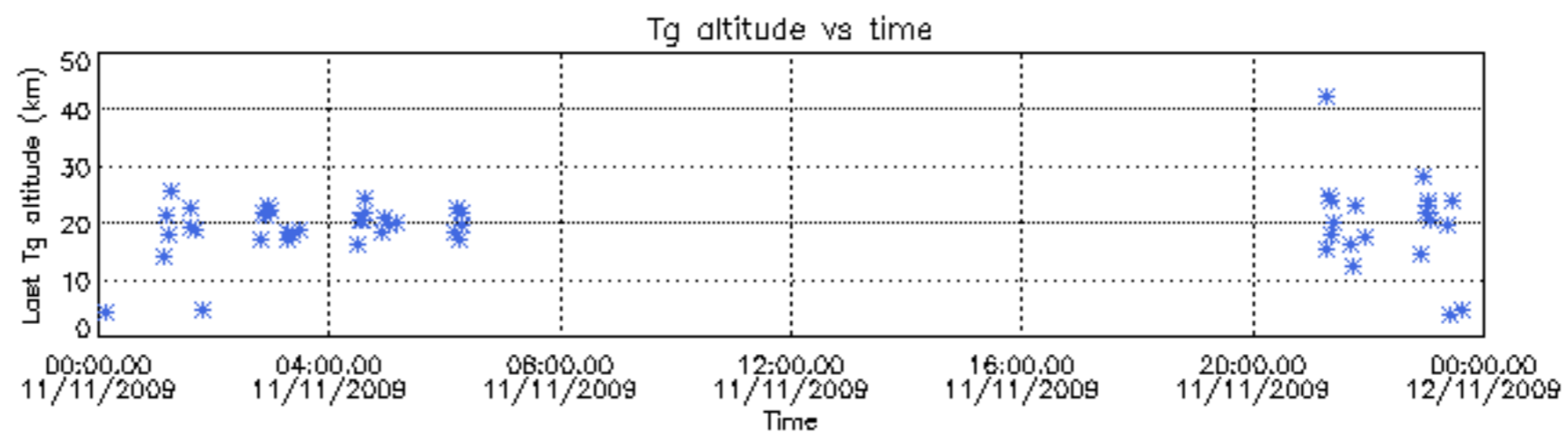
Percentage of saturation errors per profile

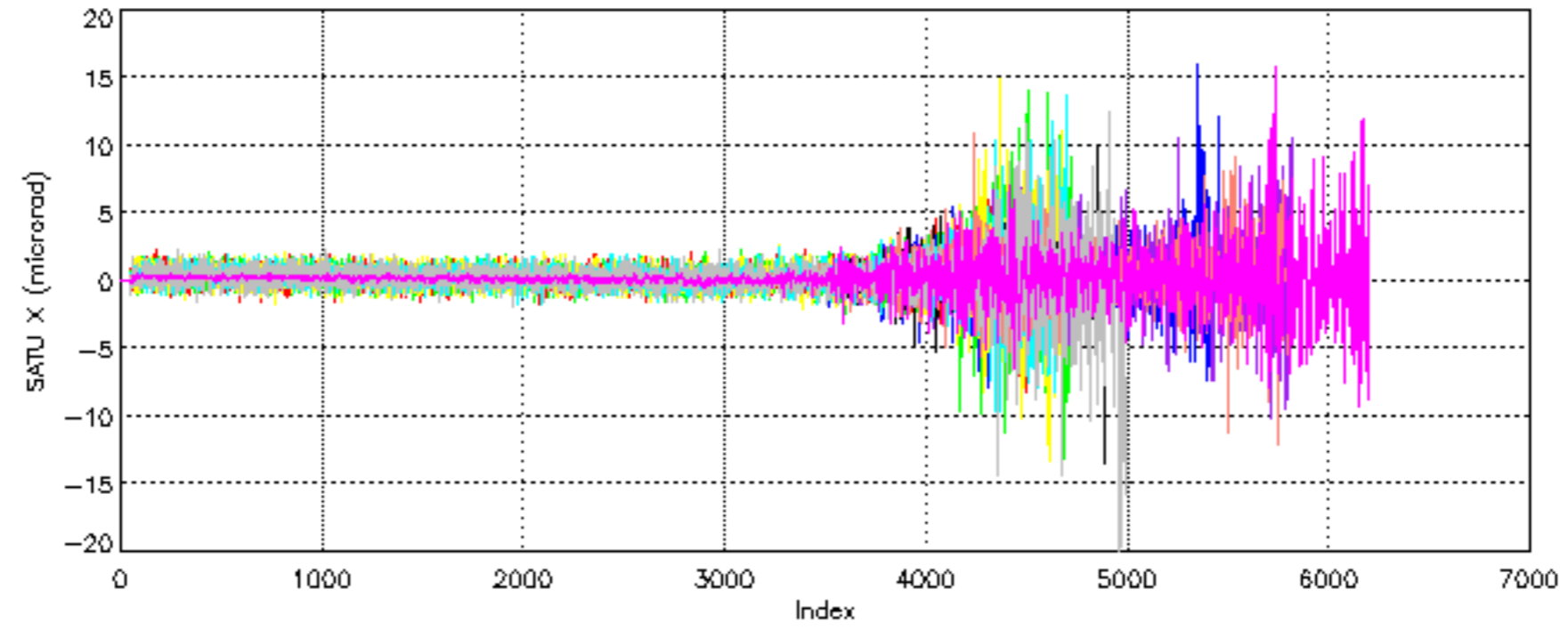


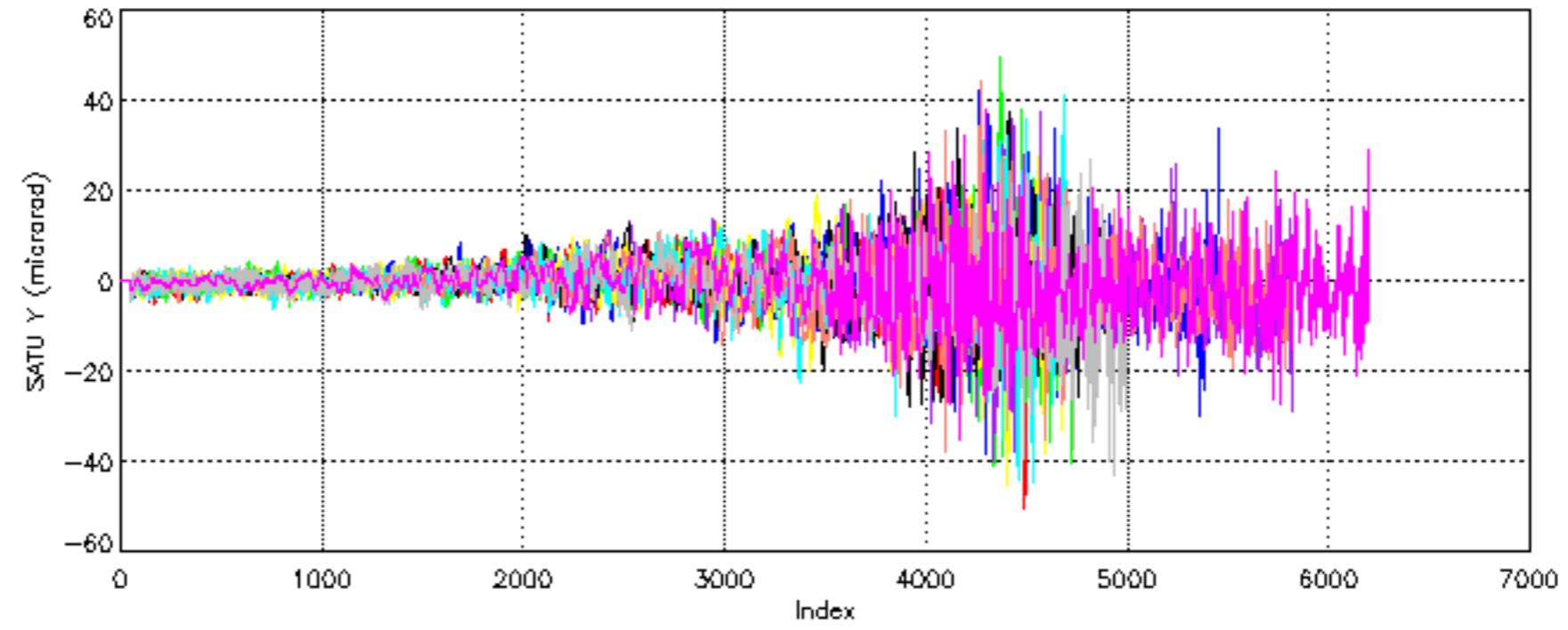
Tangent altitude at which the star is lost

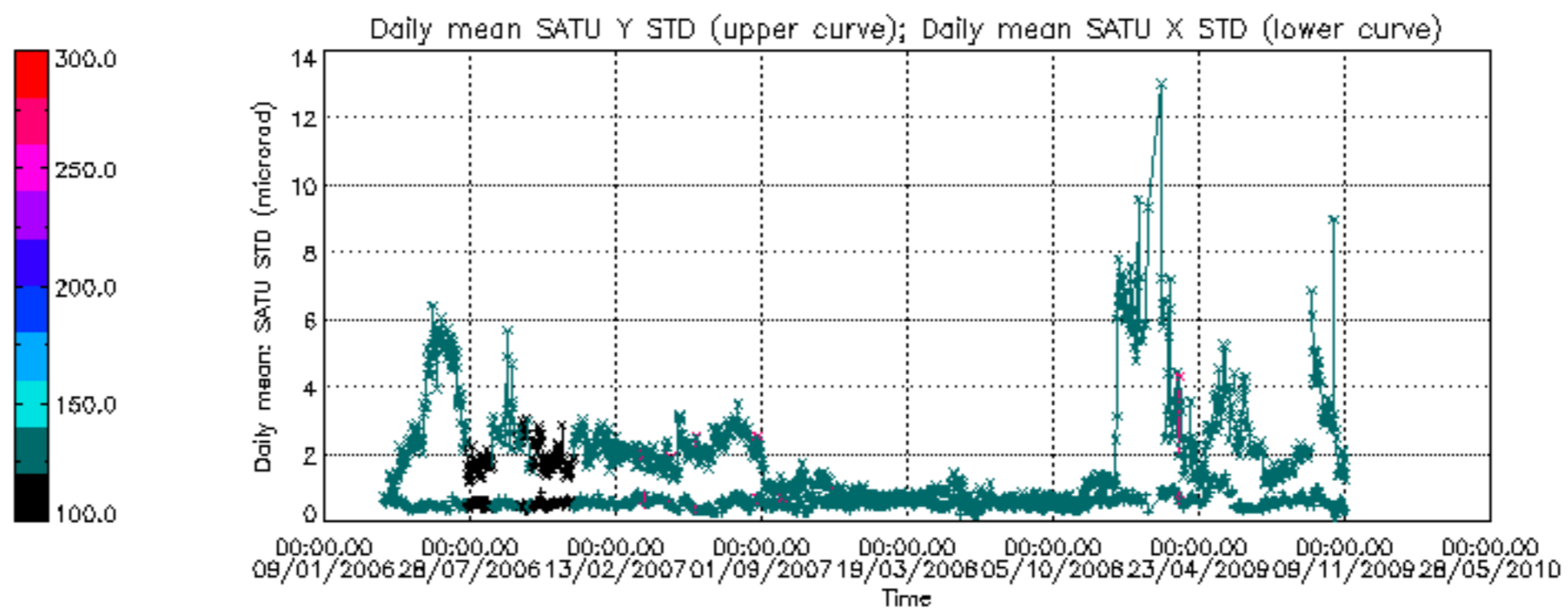


Tangent altitude at which the star is lost









/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

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 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

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 5; -1096.0; 01-NOV-2009 05:26:47; Bright; 55.0; 22; 32Alp Leo ; 1.36; 15200;occ; 110; 0;40110
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 7; -16.7; 01-NOV-2009 05:44:46; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;40110
 8; 200.7; 01-NOV-2009 05:48:23; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40111
 9; 350.9; 01-NOV-2009 05:50:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40111
 10; 527.1; 01-NOV-2009 05:53:50; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;40111
 11; 912.1; 01-NOV-2009 06:00:15; Dark ; 31.0; 108; Alp Col ; 2.65; 15200;occ; 62; 0;40111
 12; 2009.6; 01-NOV-2009 06:18:32; Dark ; 53.5; 94; 92Alp Cet ; 2.53; 3100;occ; 107; 0;40111
 13; 2273.0; 01-NOV-2009 06:22:56; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40111
 14; 2538.0; 01-NOV-2009 06:27:21; Bright; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;40111
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4; 401.5; 05-NOV-2009 00:24:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40165
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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
7; 2725.2; 13-NOV-2009 18:37:38; Bright; 44.0; 149; 45Eps Per ; 2.89; 30000;occ; 88; 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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 13; 538.0; 20-NOV-2009 07:37:28; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;40384
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 9; 4050.6; 20-NOV-2009 08:36:00; Bright; 40.0; 87; 64Gam UMa ; 2.43; 11000;occ; 80; 0;40384
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8; 3849.4; 24-NOV-2009 21:31:34; Bright; 43.0; 36; 50Alp UMA ; 1.80; 6300;occ; 86; 0;40449
9; 3947.4; 24-NOV-2009 21:33:12; Bright; 42.0; 82; 48Bet UMA ; 2.37; 10600;occ; 84; 0;40449
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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
12; 4341.9; 24-NOV-2009 21:39:47; Bright; 56.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 112; 0;40449
13; 4869.3; 24-NOV-2009 21:48:34; Bright; 70.0; 62; 94Bet Leo ; 2.14; 9700;occ; 140; 0;40449
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11; 2617.3; 30-NOV-2009 19:41:55; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40534
12; 2850.1; 30-NOV-2009 19:45:48; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;40534
13; 2960.6; 30-NOV-2009 19:47:38; Bright; 52.5; 42; 34Bet Aur ; 1.90; 10200;occ; 105; 0;40534
14; 3822.4; 30-NOV-2009 20:02:00; Bright; 49.5; 36; 50Alp UMa ; 1.80; 6300;occ; 99; 0;40534
15; 3918.6; 30-NOV-2009 20:03:36; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;40534
16; 4014.9; 30-NOV-2009 20:05:12; Bright; 37.5; 32; 77Eps UMa ; 1.76; 11000;occ; 75; 0;40534
17; 4188.5; 30-NOV-2009 20:08:06; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;40534
18; 4347.9; 30-NOV-2009 20:10:45; Bright; 41.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 82; 0;40534
19; 4920.8; 30-NOV-2009 20:20:18; Bright; 62.0; 62; 94Bet Leo ; 2.14; 9700;occ; 124; 0;40534
20; 5118.8; 30-NOV-2009 20:23:36; Bright; 61.0; 121; 29Gam Vir ; 2.74; 7200;occ; 122; 0;40534
21; 5458.2; 30-NOV-2009 20:29:16; Dark ; 48.5; 100; 4Gam Crv ; 2.58; 13100;occ; 97; 0;40534
22; 5553.6; 30-NOV-2009 20:30:51; Dark ; 49.5; 171; 2Eps Crv ; 3.00; 4250;occ; 99; 0;40534
23; 6122.0; 30-NOV-2009 20:40:20; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40534
24; 6441.0; 30-NOV-2009 20:45:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40534
25; 6639.2; 30-NOV-2009 20:48:57; Dark ; 60.0; 34; Gam2Vel ; 1.79; 23000;occ; 120; 0;40534
26; 6744.5; 30-NOV-2009 20:50:42; Dark ; 56.5; 70; Zet Pup ; 2.25; 39000;occ; 113; 0;40534
27; 6953.1; 30-NOV-2009 20:54:11; Dark ; 61.0; 117; Pi Pup ; 2.71; 3800;occ; 122; 0;40534

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