

GOMOS Daily Report 01-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	04OCT2010 04:46:06
Data source version	GOMOS/5.01
Start time of products	01OCT2010 00:20:37
Stop time of products	01OCT2010 23:50:32
Store outputs in DB	Yes
Nb of level 1b prods	76
Nb of prods with errors	0

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

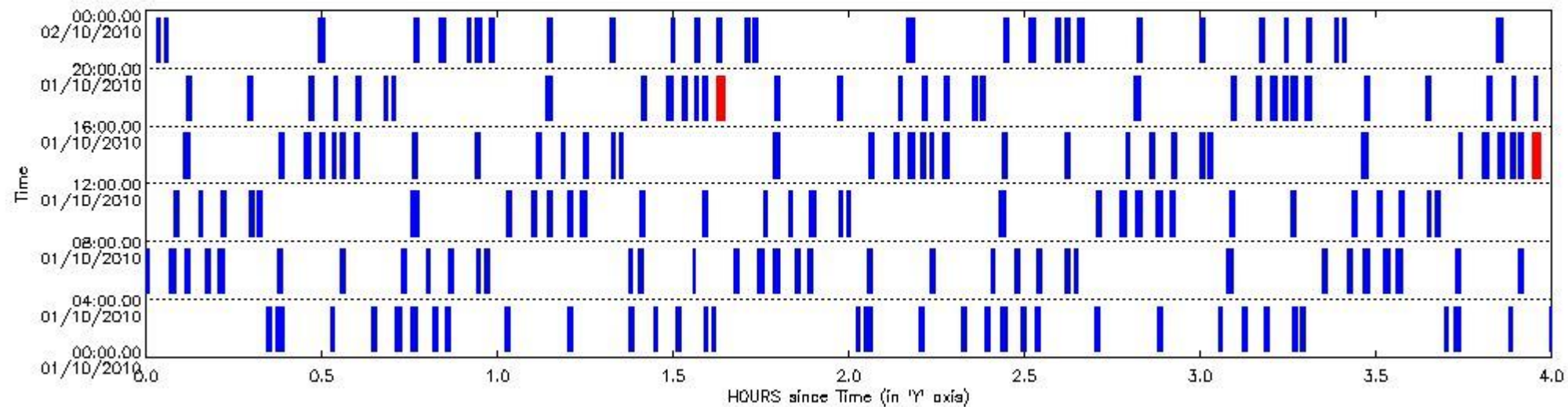
2.1 Level 0 products arrived in PCF (see template [here](#))

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
01-OCT-2010 15:56:50	AlpCol	108	44898
01-OCT-2010 17:37:27	AlpCol	108	44899

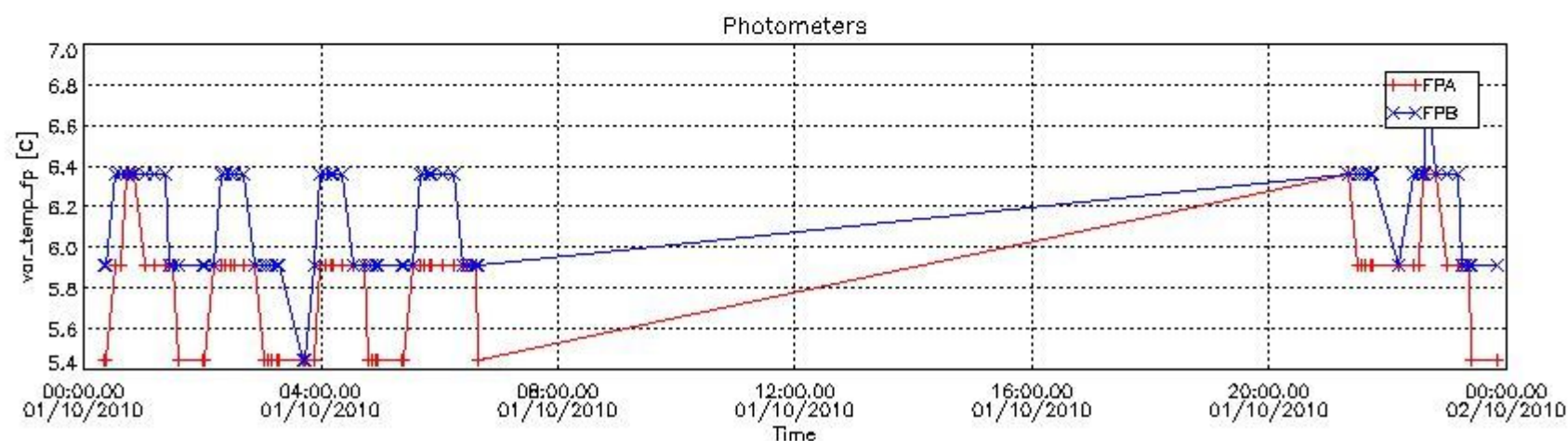
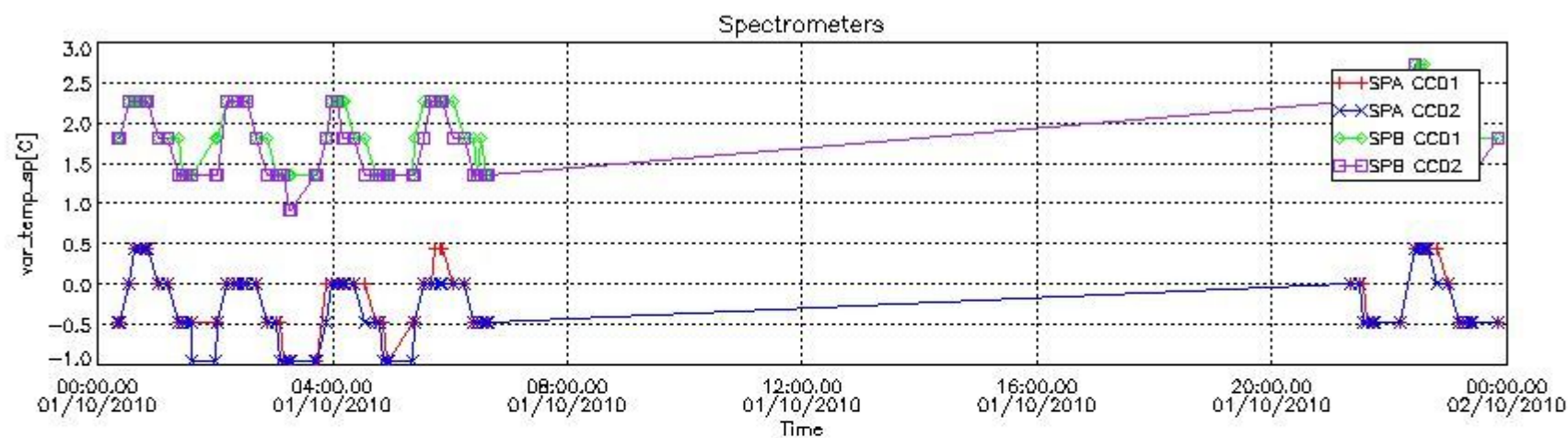
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101001_002037_000000392093_00245_44888_7738.N1	01-OCT-2010 00:20:37	Bright	39.000	24	66Alp Gem	1.5800	10200.	78	44888	No
2	GOM_TRA_1PNPDE20101001_002205_000000772093_00245_44888_7739.N1	01-OCT-2010 00:22:05	Bright	77.000	17	78Bet Gem	1.1610	4500.0	154	44888	No
3	GOM_TRA_1PNPDE20101001_003125_000000382093_00245_44888_7740.N1	01-OCT-2010 00:31:25	Dark	37.500	8	10Alp CMi	0.40000	6500.0	75	44888	No
4	GOM_TRA_1PNPDE20101001_003829_000000462093_00245_44888_7762.N1	01-OCT-2010 00:38:29	Dark	46.000	132	15Rho Pup	2.8030	6900.0	92	44888	No
5	GOM_TRA_1PNPDE20101001_004236_000000542093_00245_44888_7763.N1	01-OCT-2010 00:42:36	Dark	54.000	37	25Del CMa	1.8300	5900.0	108	44888	No
6	GOM_TRA_1PNPDE20101001_004849_000000542093_00246_44889_7764.N1	01-OCT-2010 00:48:49	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	44889	No
7	GOM_TRA_1PNPDE20101001_005101_000000572093_00246_44889_7765.N1	01-OCT-2010 00:51:01	Dark	57.000	108	Alp Col	2.6520	15200.	114	44889	No
8	GOM_TRA_1PNPDE20101001_010114_000000512093_00246_44889_7766.N1	01-OCT-2010 01:01:14	Straylight	50.500	157	The1Eri	2.9060	9300.0	101	44889	No
9	GOM_TRA_1PNPDE20101001_011157_000000492093_00246_44889_7767.N1	01-OCT-2010 01:11:57	Straylight	49.000	52	16Bet Cet	2.0370	4500.0	98	44889	No

10	GOM_TRA_1PNPDE20101001_012227_000000412093_00246_44889_7768.N1	01-OCT-2010 01:22:27	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	44889	No
11	GOM_TRA_1PNPDE20101001_012637_000000402093_00246_44889_7769.N1	01-OCT-2010 01:26:37	Bright	40.000	58	21Alp And	2.0730	11000.	80	44889	No
12	GOM_TRA_1PNPDE20101001_013023_000000462093_00246_44889_7770.N1	01-OCT-2010 01:30:23	Bright	46.000	53	43Bet And	2.0480	3300.0	92	44889	No
13	GOM_TRA_1PNPDE20101001_013512_000000392093_00246_44889_7771.N1	01-OCT-2010 01:35:12	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	44889	No
14	GOM_TRA_1PNPDE20101001_013634_000000392093_00246_44889_7772.N1	01-OCT-2010 01:36:34	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	44889	No
15	GOM_TRA_1PNPDE20101001_020113_000000392093_00246_44889_7773.N1	01-OCT-2010 02:01:13	Bright	39.000	24	66Alp Gem	1.5800	10200.	78	44889	No
16	GOM_TRA_1PNPDE20101001_020241_000000772093_00246_44889_7774.N1	01-OCT-2010 02:02:41	Bright	76.500	17	78Bet Gem	1.1610	4500.0	153	44889	No
17	GOM_TRA_1PNPDE20101001_021202_000000382093_00246_44889_7780.N1	01-OCT-2010 02:12:02	Dark	38.000	8	10Alp CMi	0.40000	6500.0	76	44889	No
18	GOM_TRA_1PNPDE20101001_021905_000000492093_00246_44889_7781.N1	01-OCT-2010 02:19:05	Dark	48.500	132	15Rho Pup	2.8030	6900.0	97	44889	No
19	GOM_TRA_1PNPDE20101001_022313_000000542093_00246_44889_7782.N1	01-OCT-2010 02:23:13	Dark	54.000	37	25Del CMa	1.8300	5900.0	108	44889	No
20	GOM_TRA_1PNPDE20101001_022926_000000462093_00247_44890_7783.N1	01-OCT-2010 02:29:26	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	44890	No
21	GOM_TRA_1PNPDE20101001_023139_000000582093_00247_44890_7784.N1	01-OCT-2010 02:31:39	Dark	57.500	108	Alp Col	2.6520	15200.	115	44890	No
22	GOM_TRA_1PNPDE20101001_024150_000000512093_00247_44890_7785.N1	01-OCT-2010 02:41:50	Straylight	51.000	157	The1Eri	2.9060	9300.0	102	44890	No
23	GOM_TRA_1PNPDE20101001_025234_000000512093_00247_44890_7786.N1	01-OCT-2010 02:52:34	Straylight	51.000	52	16Bet Cet	2.0370	4500.0	102	44890	No
24	GOM_TRA_1PNPDE20101001_030302_000000412093_00247_44890_7787.N1	01-OCT-2010 03:03:02	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	44890	No
25	GOM_TRA_1PNPDE20101001_030712_000000402093_00247_44890_7788.N1	01-OCT-2010 03:07:12	Bright	39.500	58	21Alp And	2.0730	11000.	79	44890	No
26	GOM_TRA_1PNPDE20101001_031058_000000492093_00247_44890_7789.N1	01-OCT-2010 03:10:58	Bright	48.500	53	43Bet And	2.0480	3300.0	97	44890	No
27	GOM_TRA_1PNPDE20101001_031548_000000372093_00247_44890_7790.N1	01-OCT-2010 03:15:48	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	44890	No
28	GOM_TRA_1PNPDE20101001_031709_000000402093_00247_44890_7791.N1	01-OCT-2010 03:17:09	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44890	No
29	GOM_TRA_1PNPDE20101001_034149_000000312093_00247_44890_7810.N1	01-OCT-2010 03:41:49	Tw_i_and_stray	31.000	24	66Alp Gem	1.5800	10200.	62	44890	No
30	GOM_TRA_1PNPDE20101001_034318_000000732093_00247_44890_7811.N1	01-OCT-2010 03:43:18	Bright	73.000	17	78Bet Gem	1.1610	4500.0	146	44890	No
31	GOM_TRA_1PNPDE20101001_035239_000000302093_00247_44890_7812.N1	01-OCT-2010 03:52:39	Dark	30.000	8	10Alp CMi	0.40000	6500.0	60	44890	No
32	GOM_TRA_1PNPDE20101001_035942_000000462093_00247_44890_7813.N1	01-OCT-2010 03:59:42	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	44890	No
33	GOM_TRA_1PNPDE20101001_040351_000000652093_00247_44890_7814.N1	01-OCT-2010 04:03:51	Dark	65.000	37	25Del CMa	1.8300	5900.0	130	44890	No
34	GOM_TRA_1PNPDE20101001_041003_000000452093_00248_44891_7815.N1	01-OCT-2010 04:10:03	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	44891	No
35	GOM_TRA_1PNPDE20101001_041216_000000582093_00248_44891_7816.N1	01-OCT-2010 04:12:16	Dark	57.500	108	Alp Col	2.6520	15200.	115	44891	No
36	GOM_TRA_1PNPDE20101001_042227_000000492093_00248_44891_7817.N1	01-OCT-2010 04:22:27	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	44891	No
37	GOM_TRA_1PNPDE20101001_043310_000000512093_00248_44891_7818.N1	01-OCT-2010 04:33:10	Straylight	51.000	52	16Bet Cet	2.0370	4500.0	102	44891	No
38	GOM_TRA_1PNPDE20101001_044338_000000412093_00248_44891_7819.N1	01-OCT-2010 04:43:38	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	44891	No
39	GOM_TRA_1PNPDE20101001_044748_000000392093_00248_44891_7820.N1	01-OCT-2010 04:47:48	Bright	39.000	58	21Alp And	2.0730	11000.	78	44891	No
40	GOM_TRA_1PNPDE20101001_045134_000000502093_00248_44891_7821.N1	01-OCT-2010 04:51:34	Bright	49.500	53	43Bet And	2.0480	3300.0	99	44891	No
41	GOM_TRA_1PNPDE20101001_045624_000000392093_00248_44891_7822.N1	01-OCT-2010 04:56:24	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44891	No
42	GOM_TRA_1PNPDE20101001_045745_000000412093_00248_44891_7823.N1	01-OCT-2010 04:57:45	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	44891	No
43	GOM_TRA_1PNPDE20101001_052225_000000312093_00248_44891_7836.N1	01-OCT-2010 05:22:25	Tw_i_and_stray	31.000	24	66Alp Gem	1.5800	10200.	62	44891	No
44	GOM_TRA_1PNPDE20101001_052354_000000622093_00248_44891_7837.N1	01-OCT-2010 05:23:54	Bright	61.500	17	78Bet Gem	1.1610	4500.0	123	44891	No
45	GOM_TRA_1PNPDE20101001_053316_000000302093_00248_44891_7838.N1	01-OCT-2010 05:33:16	Dark	30.000	8	10Alp CMi	0.40000	6500.0	60	44891	No
46	GOM_TRA_1PNPDE20101001_054019_000000452093_00248_44891_7839.N1	01-OCT-2010 05:40:19	Dark	44.500	132	15Rho Pup	2.8030	6900.0	89	44891	No
47	GOM_TRA_1PNPDE20101001_054428_000000652093_00248_44891_7840.N1	01-OCT-2010 05:44:28	Dark	64.500	37	25Del CMa	1.8300	5900.0	129	44891	No
48	GOM_TRA_1PNPDE20101001_055039_000000592093_00249_44892_7841.N1	01-OCT-2010 05:50:39	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	44892	No
49	GOM_TRA_1PNPDE20101001_055254_000000582093_00249_44892_7842.N1	01-OCT-2010 05:52:54	Dark	58.000	108	Alp Col	2.6520	15200.	116	44892	No
50	GOM_TRA_1PNPDE20101001_060304_000000492093_00249_44892_7843.N1	01-OCT-2010 06:03:04	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	44892	No
51	GOM_TRA_1PNPDE20101001_061346_000000502093_00249_44892_7844.N1	01-OCT-2010 06:13:46	Straylight	49.500	52	16Bet Cet	2.0370	4500.0	99	44892	No
52	GOM_TRA_1PNPDE20101001_062414_000000412093_00249_44892_7845.N1	01-OCT-2010 06:24:14	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	44892	No
53	GOM_TRA_1PNPDE20101001_062824_000000412093_00249_44892_7846.N1	01-OCT-2010 06:28:24	Bright	40.500	58	21Alp And	2.0730	11000.	81	44892	No
54	GOM_TRA_1PNPDE20101001_063209_000000492093_00249_44892_7847.N1	01-OCT-2010 06:32:09	Bright	49.000	53	43Bet And	2.0480	3300.0	98	44892	No
55	GOM_TRA_1PNPDE20101001_063700_000000392093_00249_44892_7848.N1	01-OCT-2010 06:37:00	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44892	No
56	GOM_TRA_1PNPDE20101001_063820_000000402093_00249_44892_7849.N1	01-OCT-2010 06:38:20	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44892	No
57	GOM_TRA_1PNPDE20101001_211911_000000482093_00258_44901_8100.N1	01-OCT-2010 21:19:11	Straylight	48.000	52	16Bet Cet	2.0370	4500.0	96	44901	No
58	GOM_TRA_1PNPDE20101001_212935_000000402093_00258_44901_8101.N1	01-OCT-2010 21:29:35	Bright	40.000	140	88Gam Peg	2.8340	26000.	80	44901	No
59	GOM_TRA_1PNPDE20101001_213344_000000412093_00258_44901_8102.N1	01-OCT-2010 21:33:44	Bright	40.500	58	21Alp And	2.0730	11000.	81	44901	No
60	GOM_TRA_1PNPDE20101001_213726_000000452093_00258_44901_8103.N1	01-OCT-2010 21:37:26	Bright	45.000	53	43Bet And	2.0480	3300.0	90	44901	No
61	GOM_TRA_1PNPDE20101001_214221_000000372093_00258_44901_8104.N1	01-OCT-2010 21:42:21	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	44901	No
62	GOM_TRA_1PNPDE20101001_214340_000000382093_00258_44901_8105.N1	01-OCT-2010 21:43:40	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	44901	No
63	GOM_TRA_1PNPDE20101001_220956_000000672093_00258_44901_8106.N1	01-OCT-2010 22:09:56	Bright	67.000	17	78Bet Gem	1.1610	4500.0	134	44901	No
64	GOM_TRA_1PNPDE20101001_222626_000000462093_00258_44901_8241.N1	01-OCT-2010 22:26:26	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	44901	No
65	GOM_TRA_1PNPDE20101001_223040_000000662093_00258_44901_8242.N1	01-OCT-2010 22:30:40	Dark	65.500	37	25Del CMa	1.8300	5900.0	131	44901	No
66	GOM_TRA_1PNPDE20101001_223522_000000432093_00259_44902_8243.N1	01-OCT-2010 22:35:22	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	44902	No
67	GOM_TRA_1PNPDE20101001_223646_000000572093_00259_44902_8244.N1	01-OCT-2010 22:36:46	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	44902	No
68	GOM_TRA_1PNPDE20101001_223908_000000582093_00259_44902_8245.N1	01-OCT-2010 22:39:08	Dark	57.500	108	Alp Col	2.6520	15200.	115	44902	No

69	GOM_TRA_1PNPDE20101001_224910_00000522093_00259_44902_8246.N1	01-OCT-2010 22:49:10	Straylight	52.000	157	The1Eri	2.9060	9300.0	104	44902	No
70	GOM_TRA_1PNPDE20101001_225947_00000492093_00259_44902_8247.N1	01-OCT-2010 22:59:47	Straylight	48.500	52	16Bet Cet	2.0370	4500.0	97	44902	No
71	GOM_TRA_1PNPDE20101001_231011_00000402093_00259_44902_8248.N1	01-OCT-2010 23:10:11	Bright	40.000	140	88Gam Peg	2.8340	26000.	80	44902	No
72	GOM_TRA_1PNPDE20101001_231420_00000412093_00259_44902_8249.N1	01-OCT-2010 23:14:20	Bright	41.000	58	21Alp And	2.0730	11000.	82	44902	No
73	GOM_TRA_1PNPDE20101001_231801_00000502093_00259_44902_8250.N1	01-OCT-2010 23:18:01	Bright	49.500	53	43Bet And	2.0480	3300.0	99	44902	No
74	GOM_TRA_1PNPDE20101001_232256_00000392093_00259_44902_8251.N1	01-OCT-2010 23:22:56	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44902	No
75	GOM_TRA_1PNPDE20101001_232416_00000402093_00259_44902_8252.N1	01-OCT-2010 23:24:16	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44902	No
76	GOM_TRA_1PNPDE20101001_235032_00000622093_00259_44902_8253.N1	01-OCT-2010 23:50:32	Bright	62.000	17	78Bet Gem	1.1610	4500.0	124	44902	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).

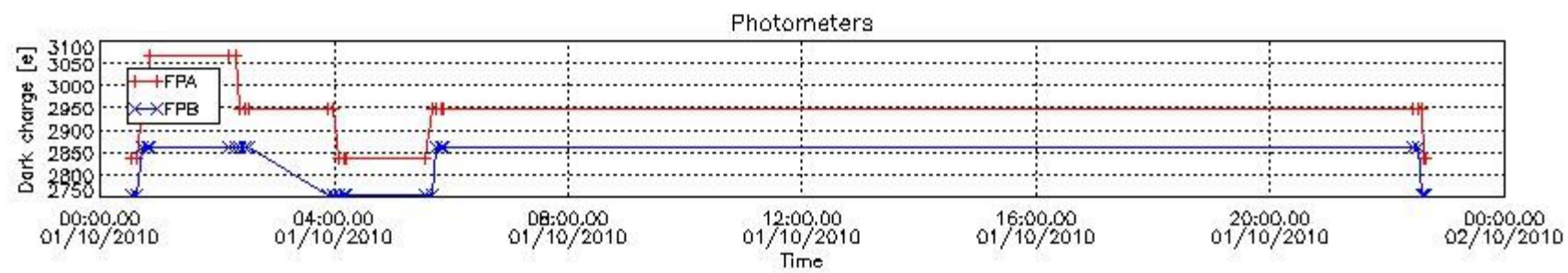
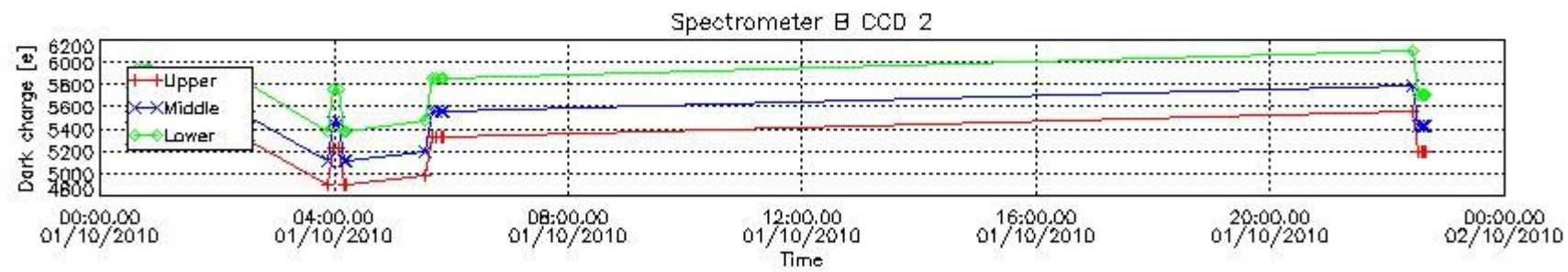
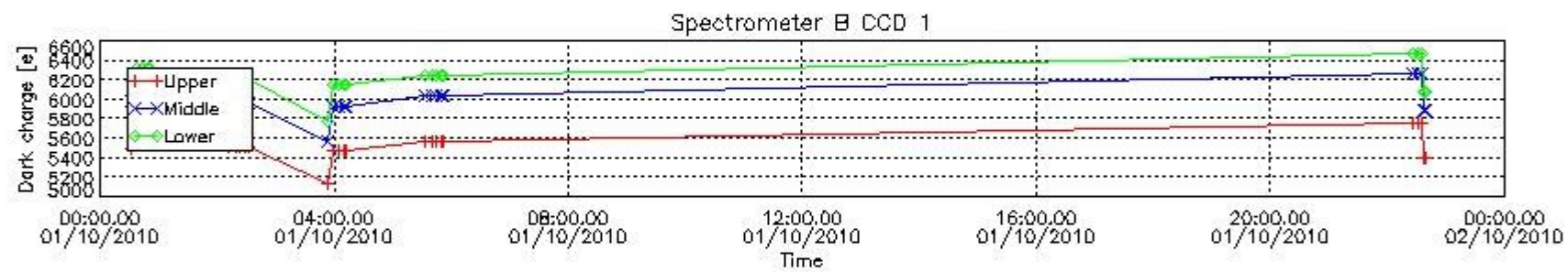
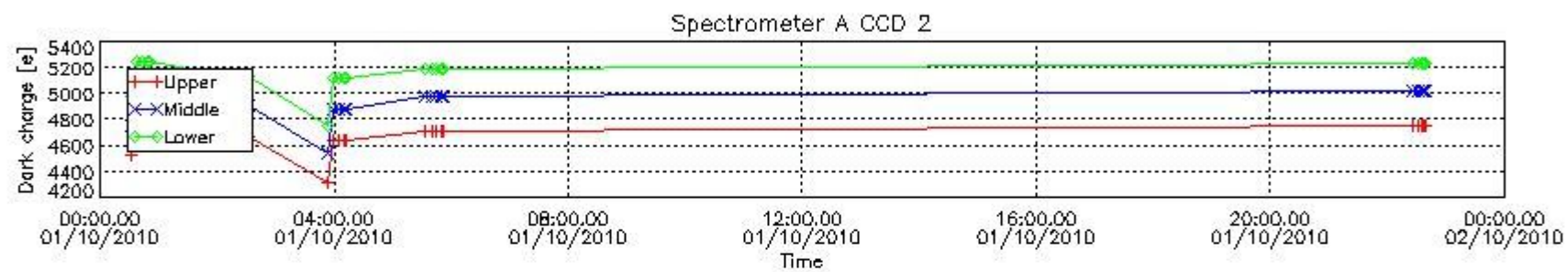
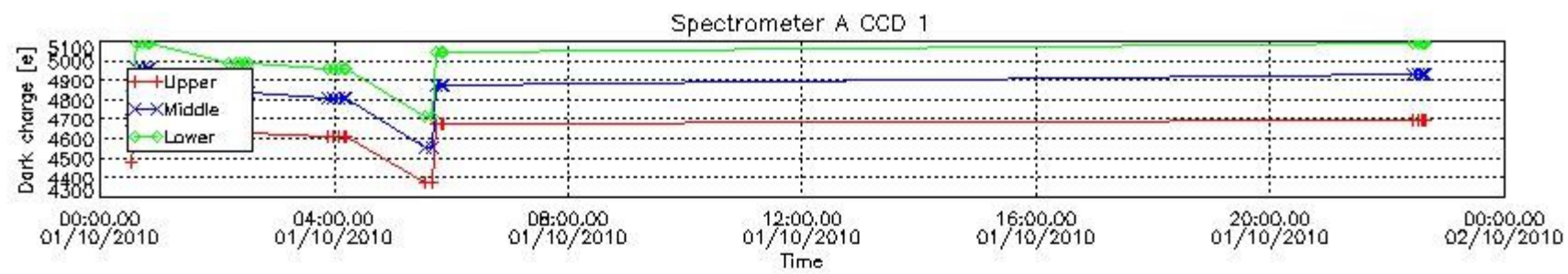
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20101001_211911_00000482093_00258_44901_8100.N1	DC map used
GOM_TRA_1PNPDE20101001_212935_00000402093_00258_44901_8101.N1	DC map used

GOM_TRA_1PNPDE20101001_213344_000000412093_00258_44901_8102.N1	DC map used
GOM_TRA_1PNPDE20101001_213726_000000452093_00258_44901_8103.N1	DC map used
GOM_TRA_1PNPDE20101001_214221_000000372093_00258_44901_8104.N1	DC map used
GOM_TRA_1PNPDE20101001_214340_000000382093_00258_44901_8105.N1	DC map used
GOM_TRA_1PNPDE20101001_220956_000000672093_00258_44901_8106.N1	DC map used
GOM_TRA_1PNPDE20101001_222626_000000462093_00258_44901_8241.N1	DC map used
GOM_TRA_1PNPDE20101001_223040_000000662093_00258_44901_8242.N1	DC map used
GOM_TRA_1PNPDE20101001_223522_000000432093_00259_44902_8243.N1	DC map used
GOM_TRA_1PNPDE20101001_223646_000000572093_00259_44902_8244.N1	DC map used
GOM_TRA_1PNPDE20101001_223908_000000582093_00259_44902_8245.N1	DC map used
GOM_TRA_1PNPDE20101001_224910_000000522093_00259_44902_8246.N1	DC map used
GOM_TRA_1PNPDE20101001_225947_000000492093_00259_44902_8247.N1	DC map used
GOM_TRA_1PNPDE20101001_231011_000000402093_00259_44902_8248.N1	DC map used
GOM_TRA_1PNPDE20101001_231420_000000412093_00259_44902_8249.N1	DC map used
GOM_TRA_1PNPDE20101001_231801_000000502093_00259_44902_8250.N1	DC map used
GOM_TRA_1PNPDE20101001_232256_000000392093_00259_44902_8251.N1	DC map used
GOM_TRA_1PNPDE20101001_232416_000000402093_00259_44902_8252.N1	DC map used
GOM_TRA_1PNPDE20101001_235032_000000622093_00259_44902_8253.N1	DC map used

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



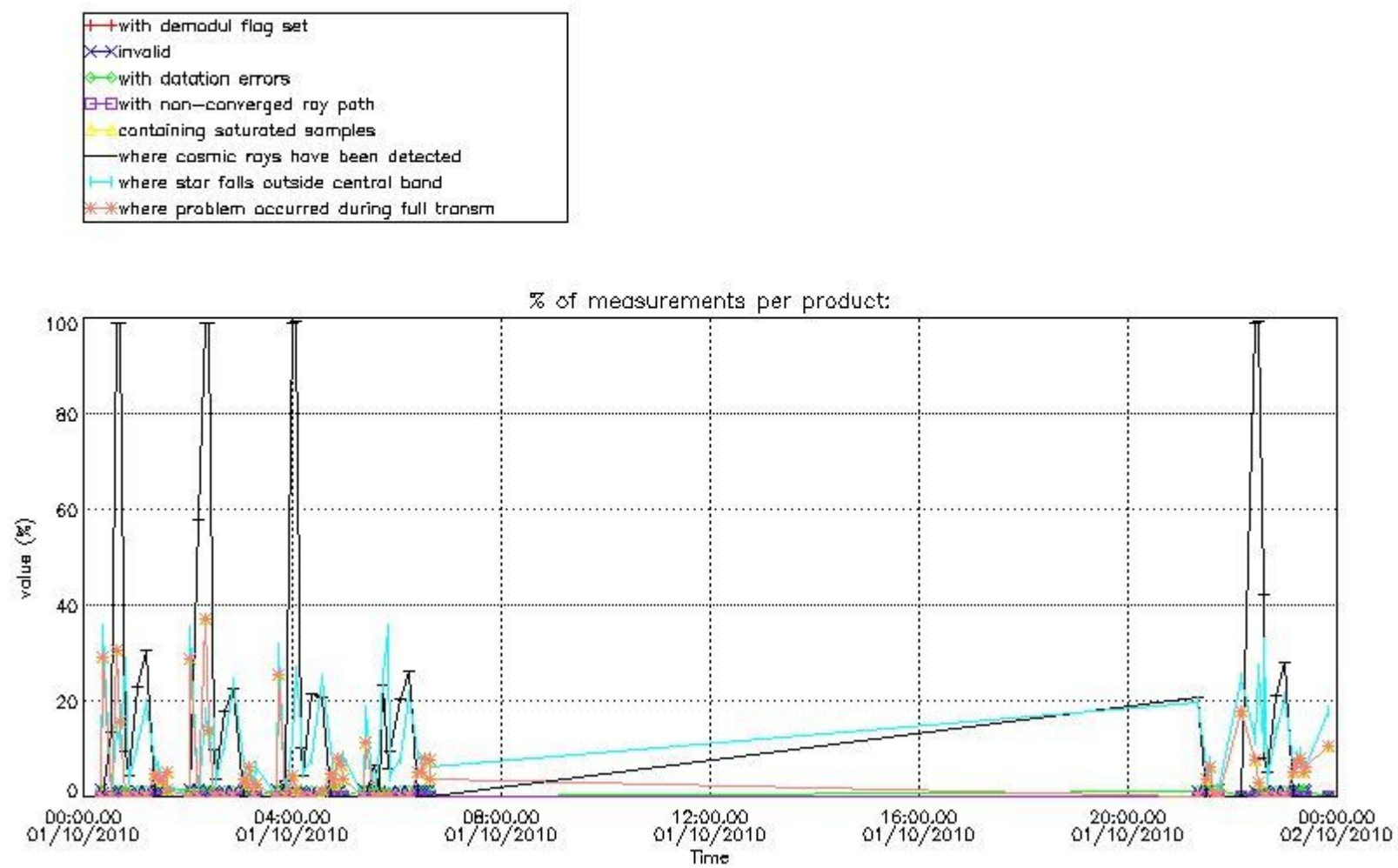
5. Demodulation flag and quality information monitoring

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.

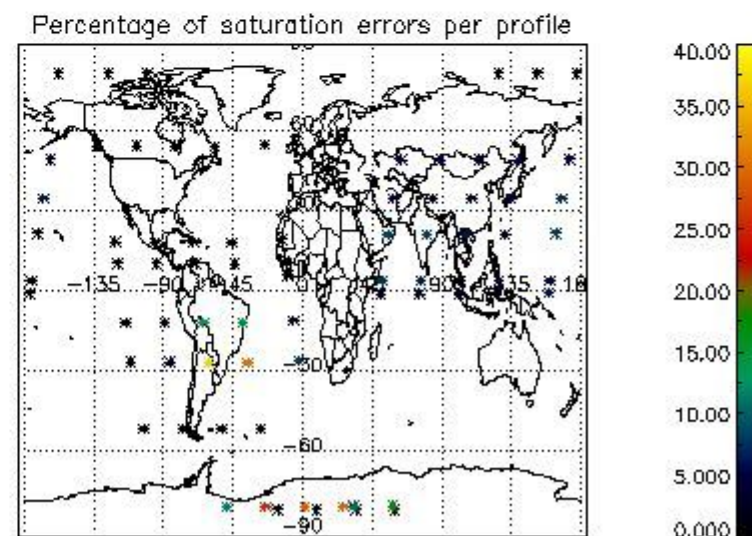
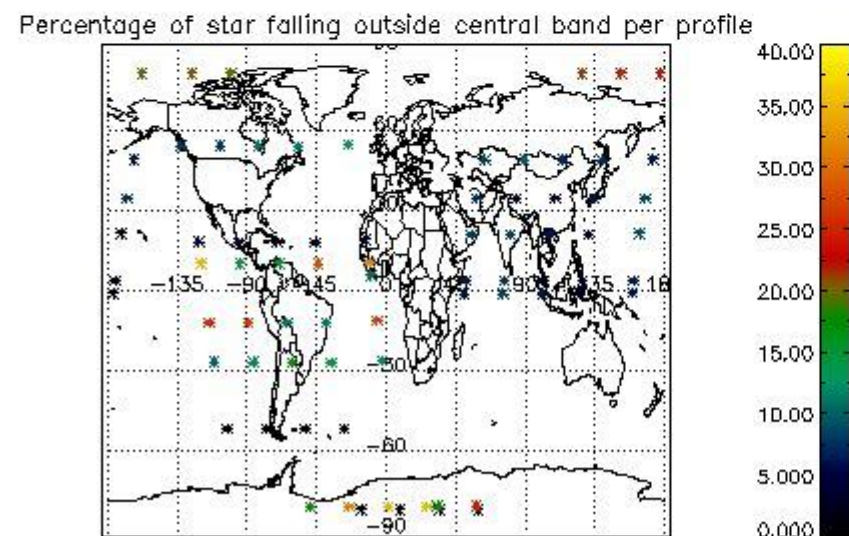
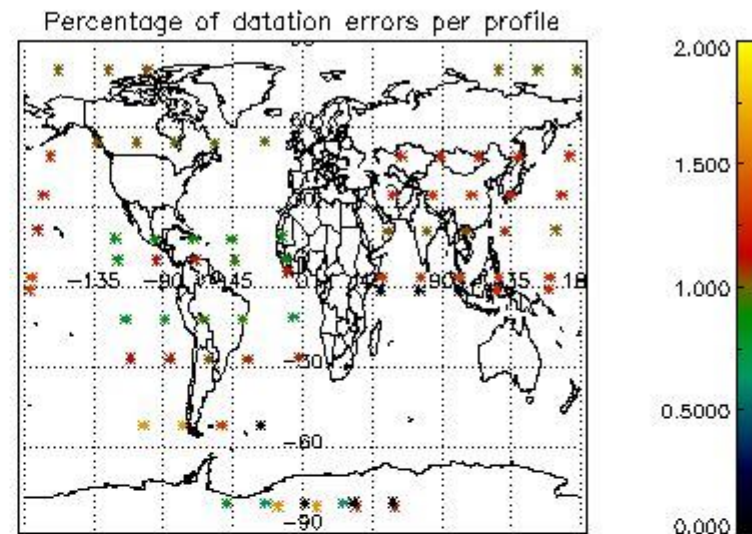
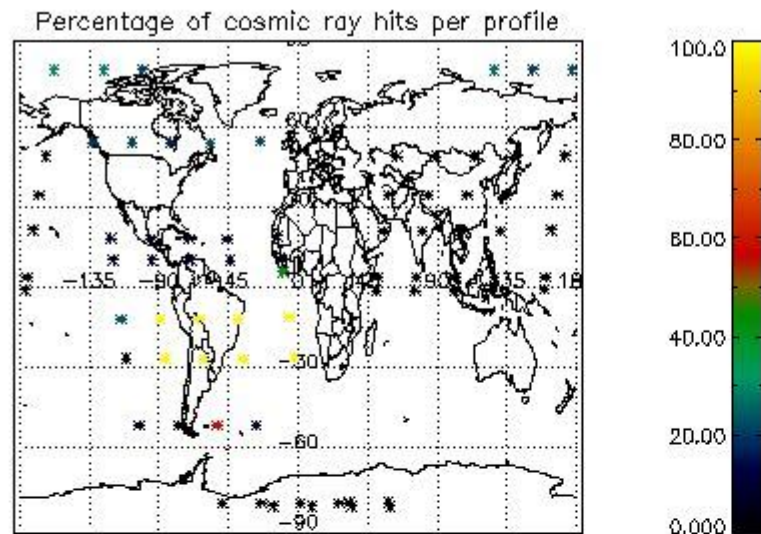
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	42.1053 %
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)



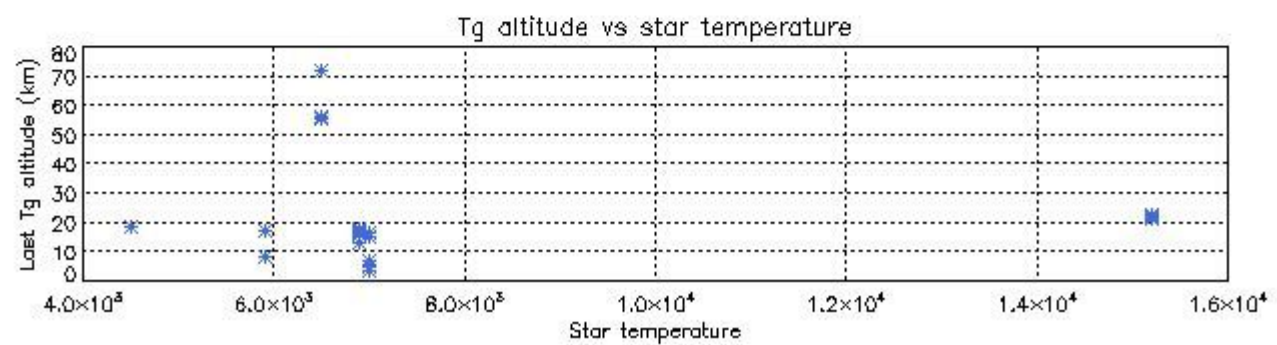
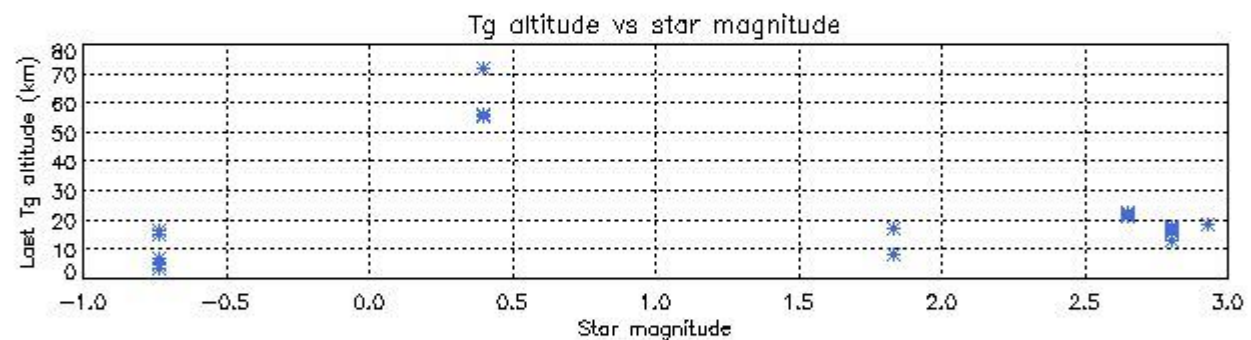
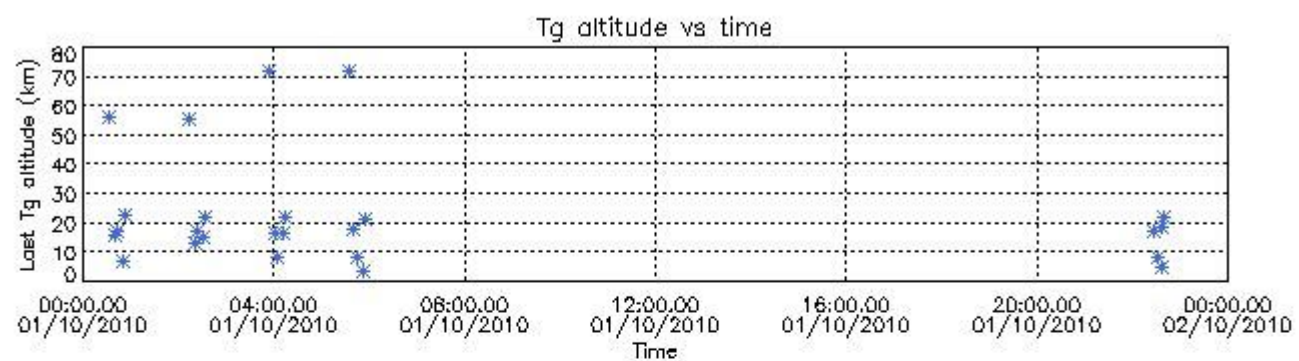
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	22.684	20.582	NaN
St. deviation:	19.400	8.4774	NaN
Maximum:	71.900	48.426	NaN
Minimum:	3.2990	4.0168	NaN
Number of data:	25.000	38.000	NaN

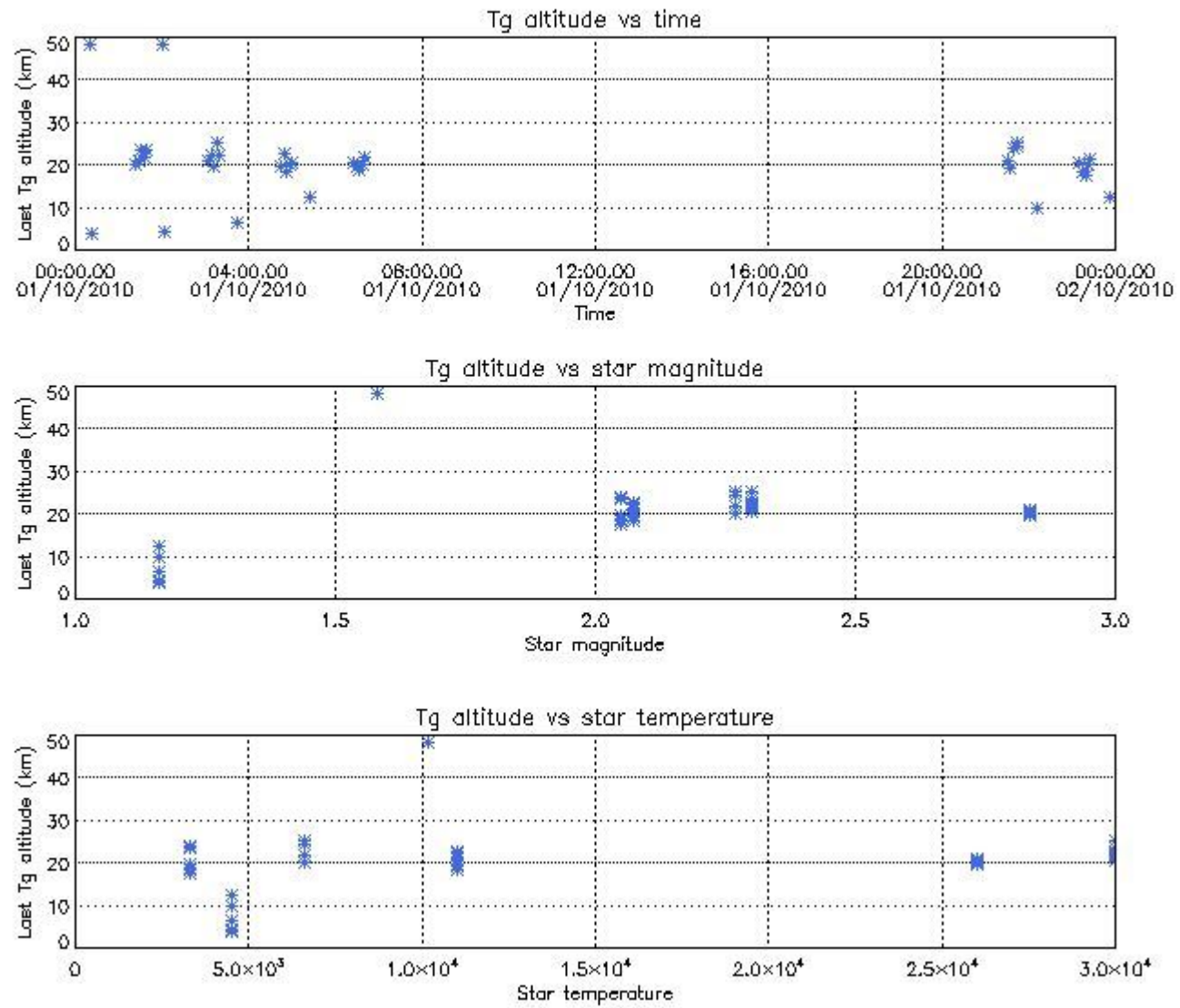
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

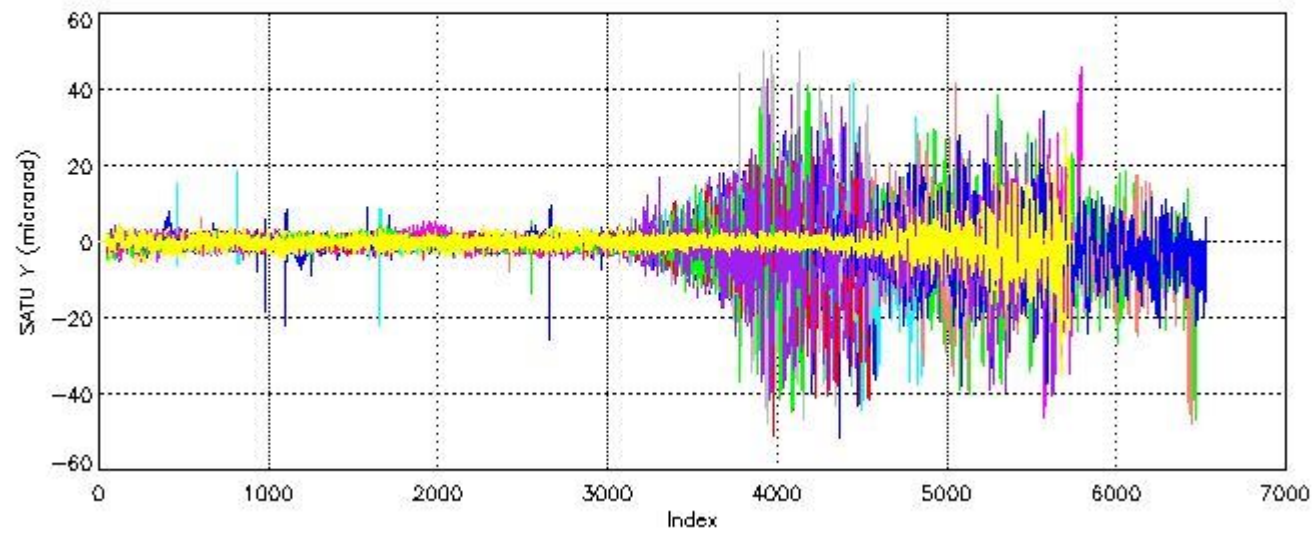
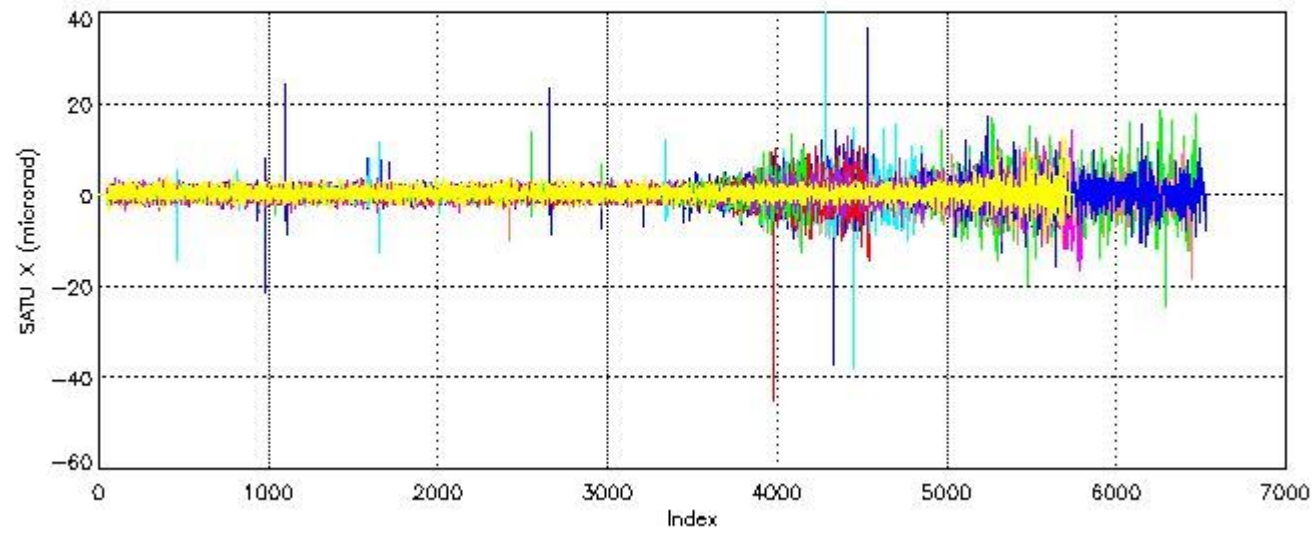


7. Star Acquisition and Tracking Unit (SATU)

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:	0.20213	-0.22239	0.22554	-0.31061
St. deviation:	0.52004	0.85165	0.71084	1.0137
Maximum:	8.0000	18.400	6.5000	7.3000
Minimum:	-21.500	-18.600	-5.5000	-8.7000

Number of data:	29200.	29200.	39950.	39950.
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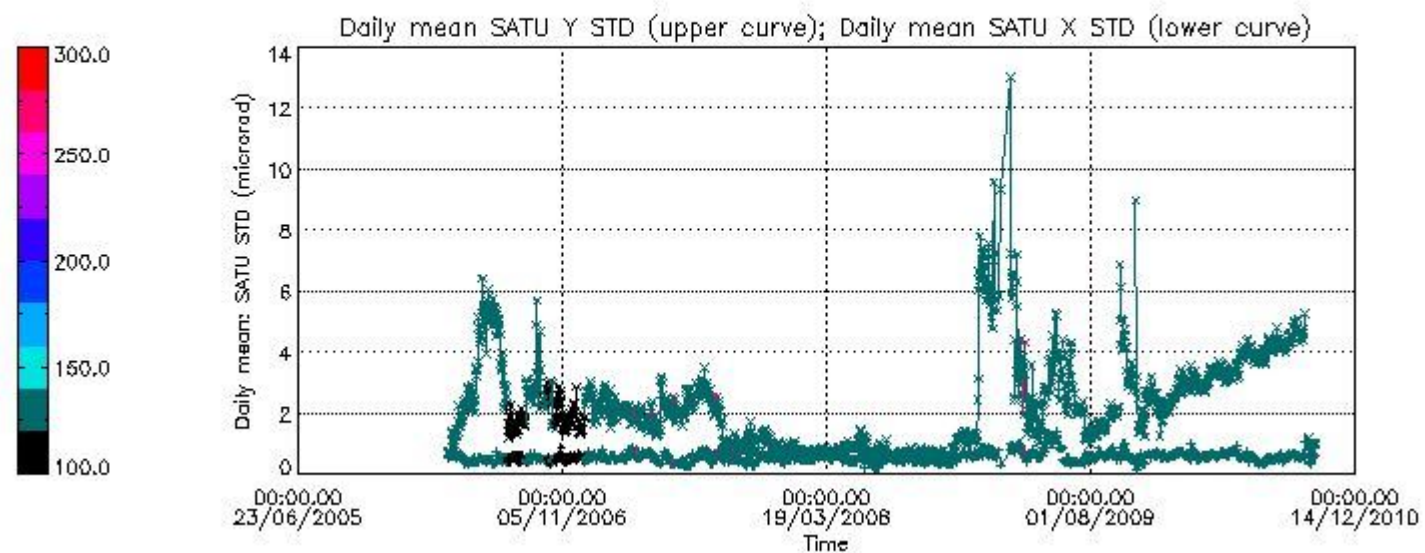
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

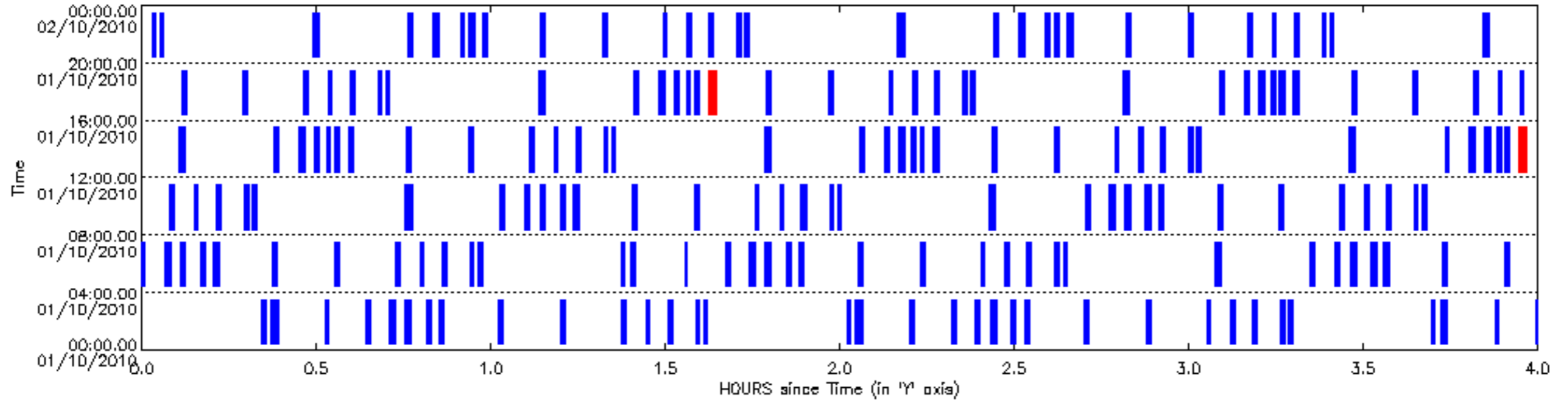
Lower curve: STD of SATU X axis

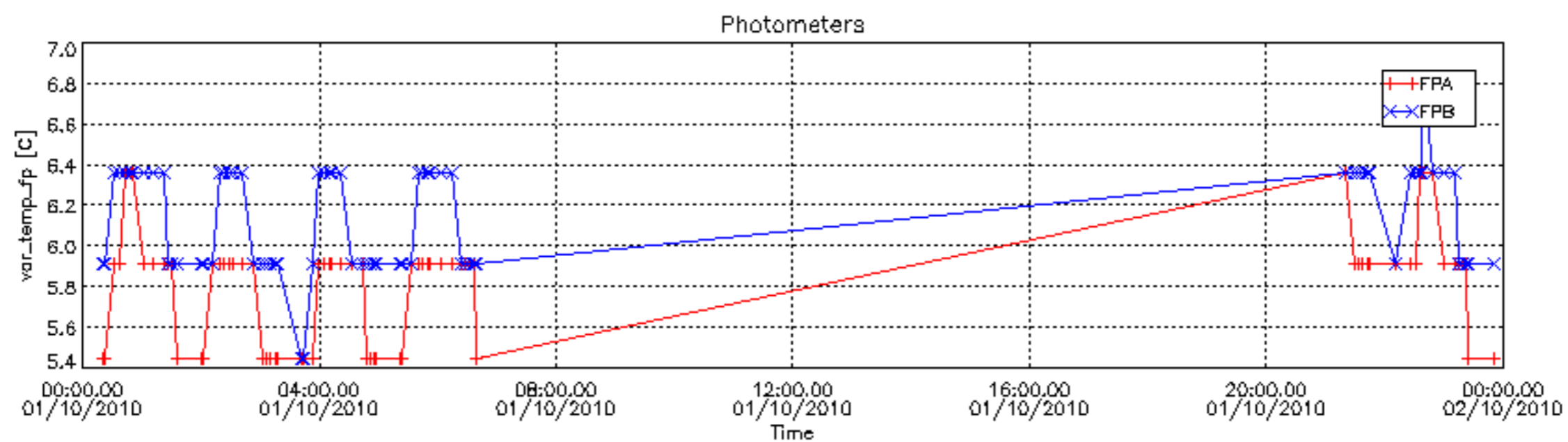
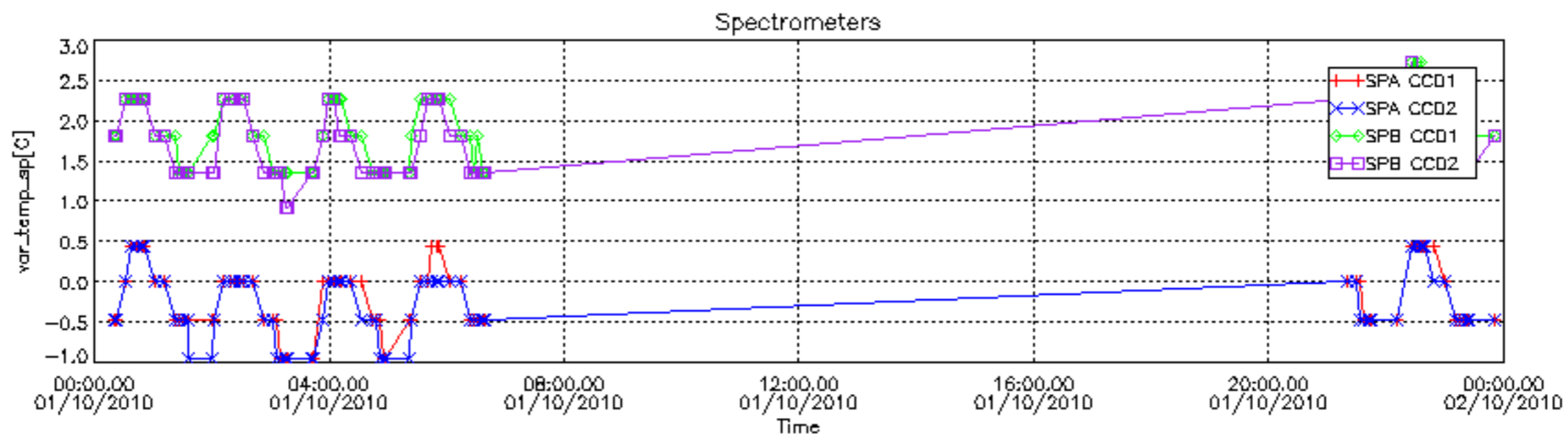


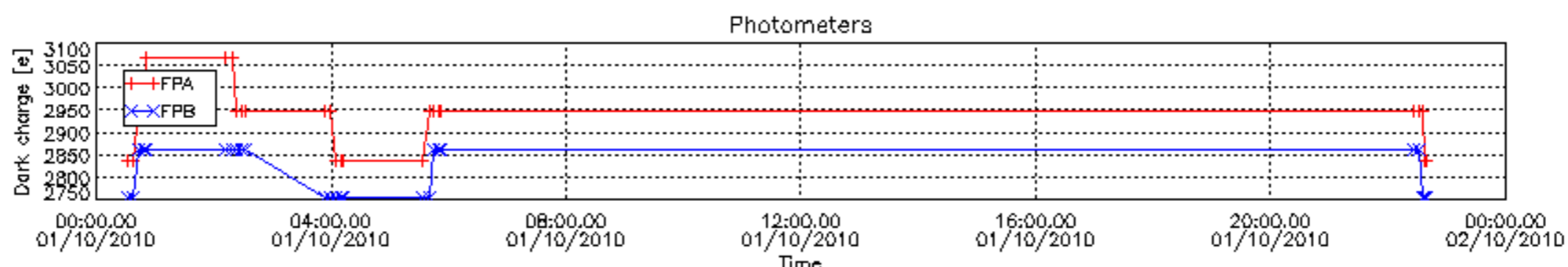
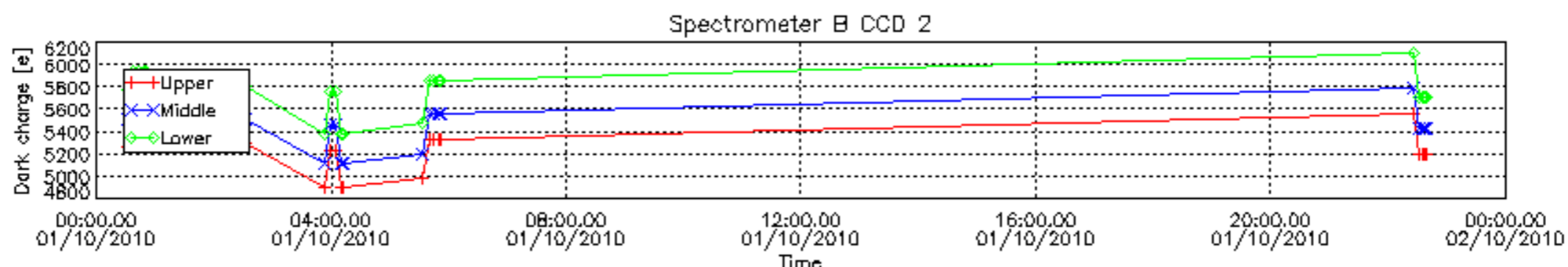
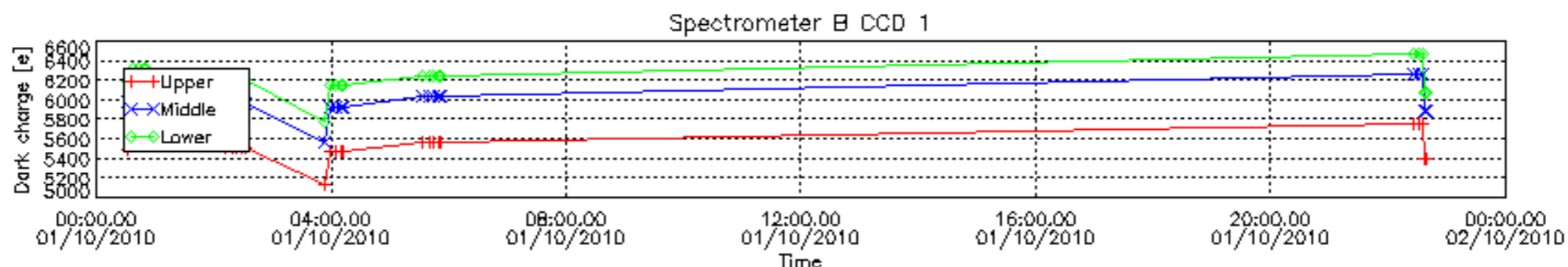
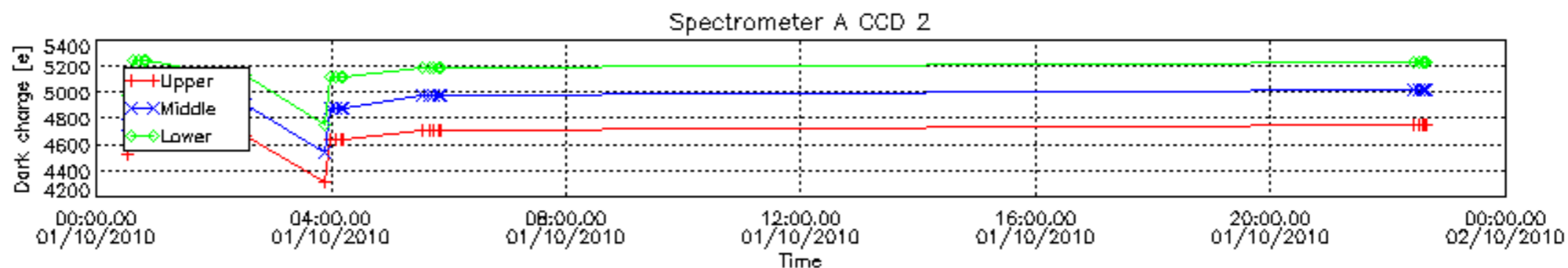
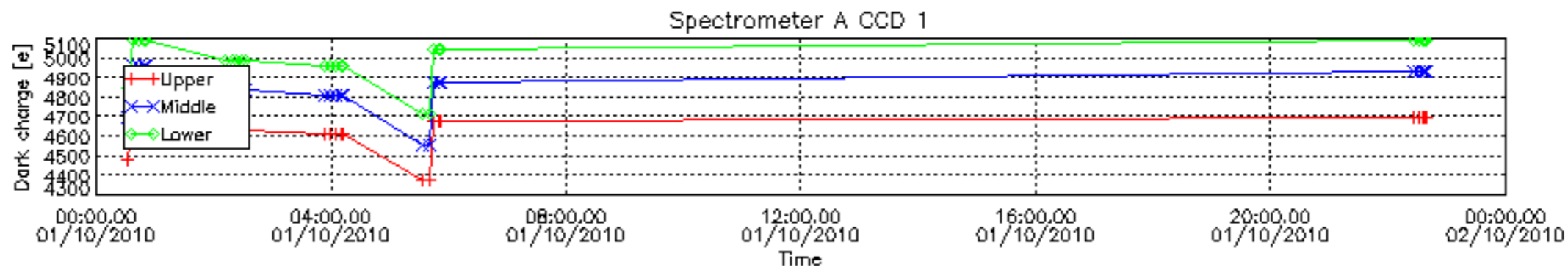
8. Auxiliary Data Files used for the production reported in section 2.4

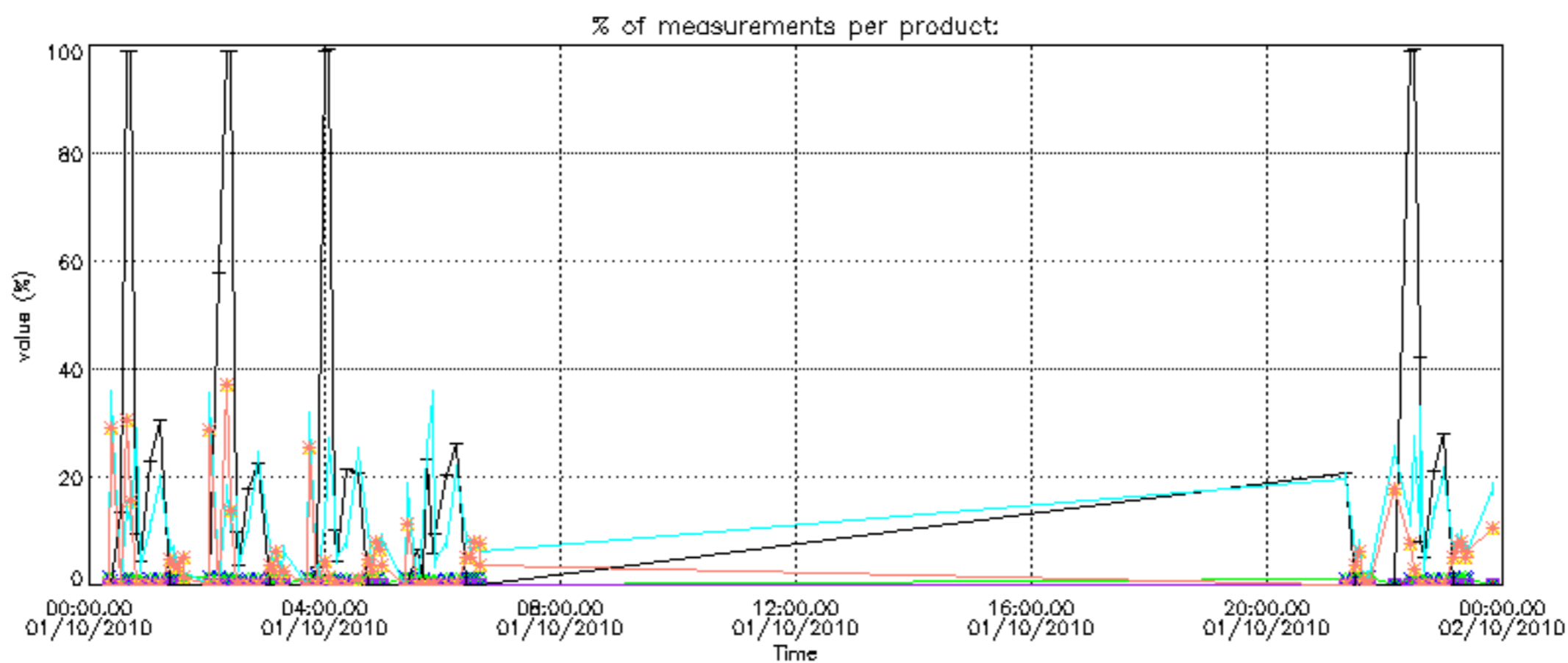
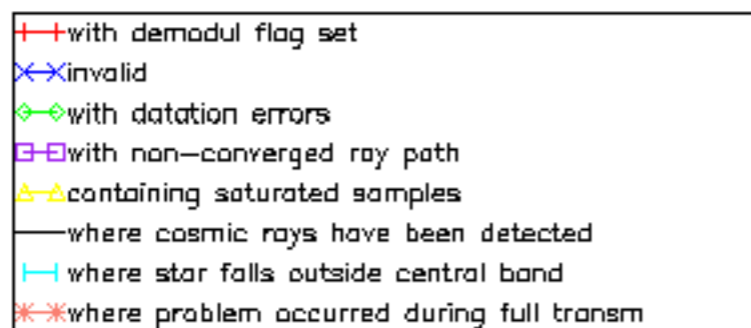
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	01-OCT-2010 00:20:37
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100923_133008_20100922_000000_20500101_000000	1	01-OCT-2010 00:20:37
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	01-OCT-2010 00:20:37
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-OCT-2010 00:20:37
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	01-OCT-2010 00:20:37
ECMWF_FILE	AUX_ECF_AXNECM20100930_052140_20100930_210000_20101001_090000	1	01-OCT-2010 00:20:37
ECMWF_FILE	AUX_ECF_AXNECM20100930_172915_20101001_030000_20101001_150000	29	01-OCT-2010 03:41:49
ECMWF_FILE	AUX_ECA_AXNECM20101001_052115_20100930_210000_20101001_090000	43	01-OCT-2010 05:22:25
ECMWF_FILE	AUX_ECF_AXNECM20101001_054114_20101001_210000_20101002_090000	57	01-OCT-2010 21:19:11
ECMWF_FILE	AUX_ECA_AXNECM20101002_052114_20101001_210000_20101002_090000	64	01-OCT-2010 22:26:26
OPTIONAL_ECMWF_FILE	MISSING	1	01-OCT-2010 00:20:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100930_225308_000057382093_00244_44887_1169.N1	1	01-OCT-2010 00:20:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101001_002846_000057382093_00245_44888_1170.N1	4	01-OCT-2010 00:38:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101001_020943_000041442093_00246_44889_1171.N1	17	01-OCT-2010 02:12:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101001_032406_000057382093_00247_44890_1172.N1	29	01-OCT-2010 03:41:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101001_050503_000057382093_00248_44891_1173.N1	43	01-OCT-2010 05:22:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101001_210644_000038252093_00258_44901_1174.N1	57	01-OCT-2010 21:19:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101001_221548_000060572093_00258_44901_1175.N1	64	01-OCT-2010 22:26:26

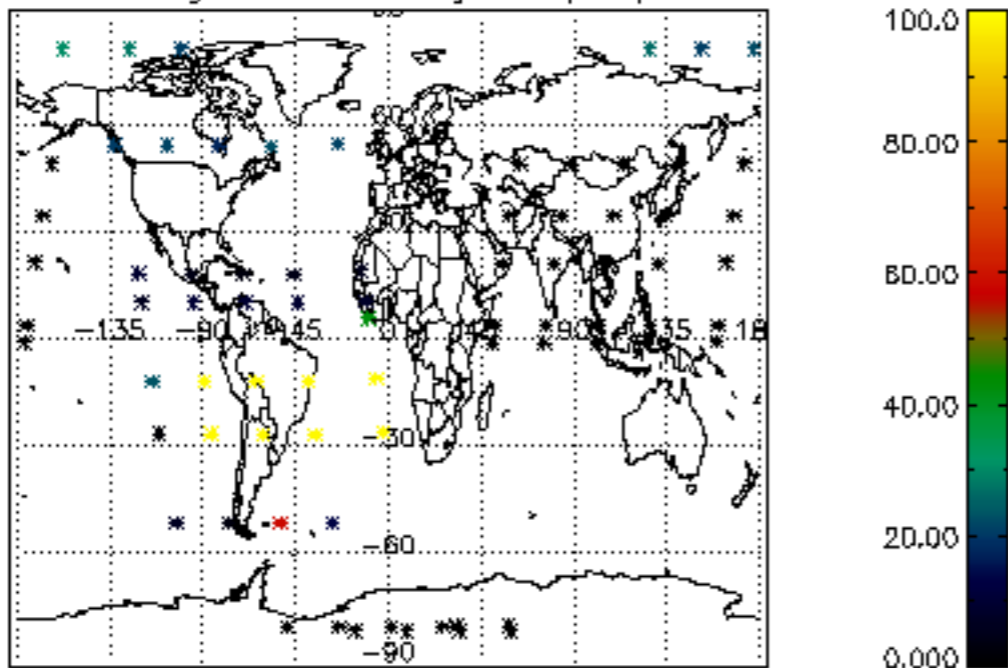




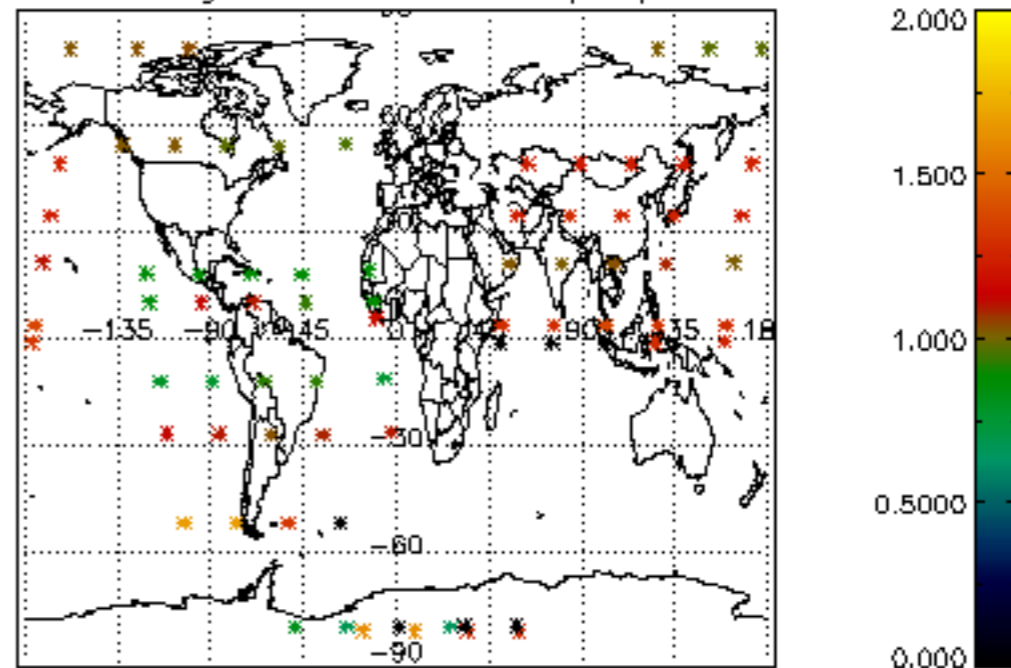




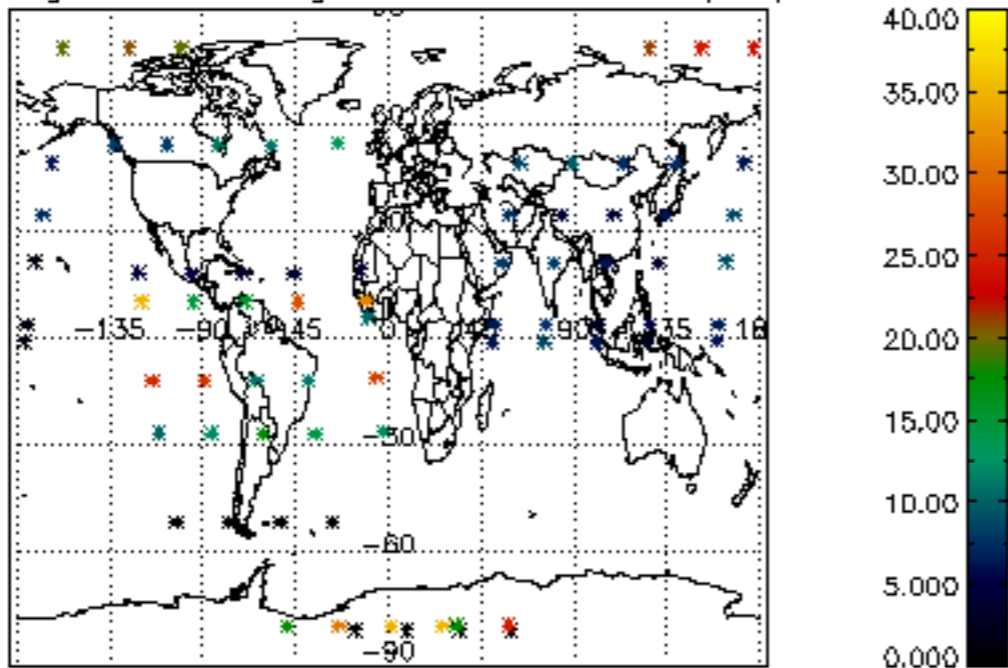
Percentage of cosmic ray hits per profile



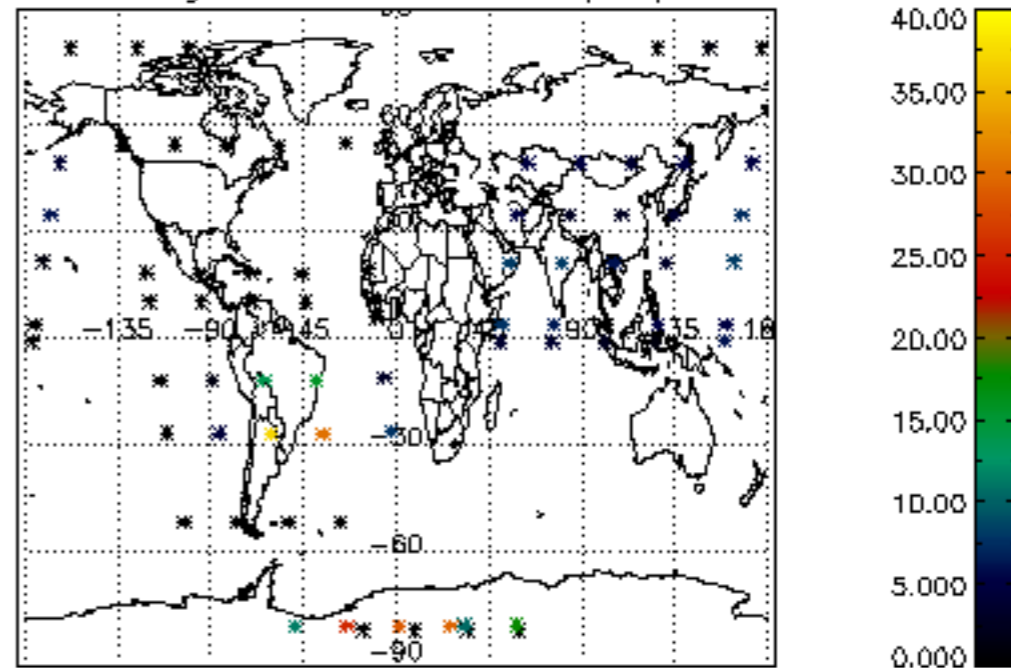
Percentage of datation errors per profile



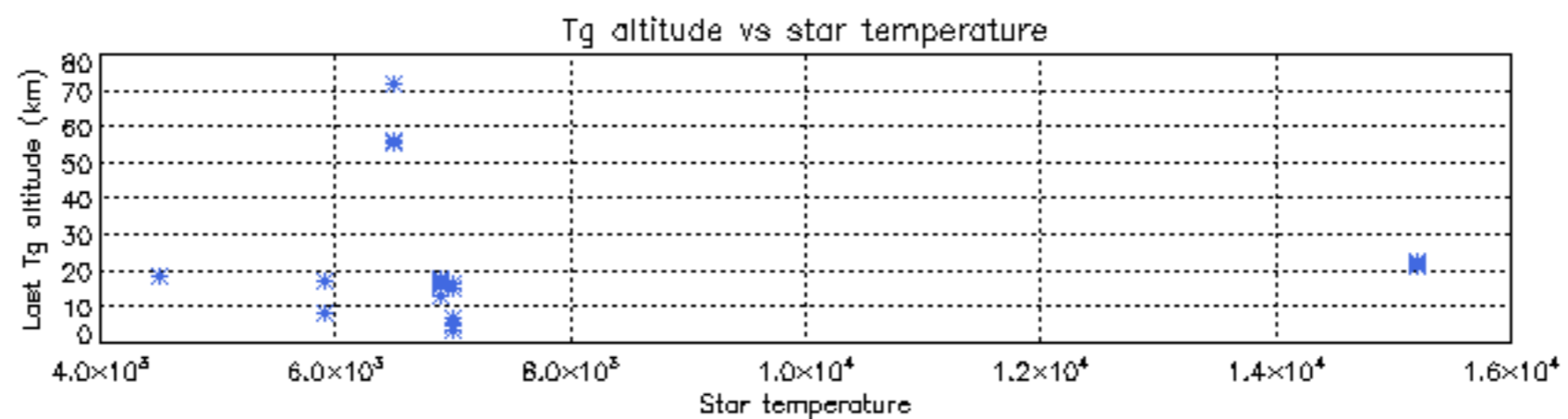
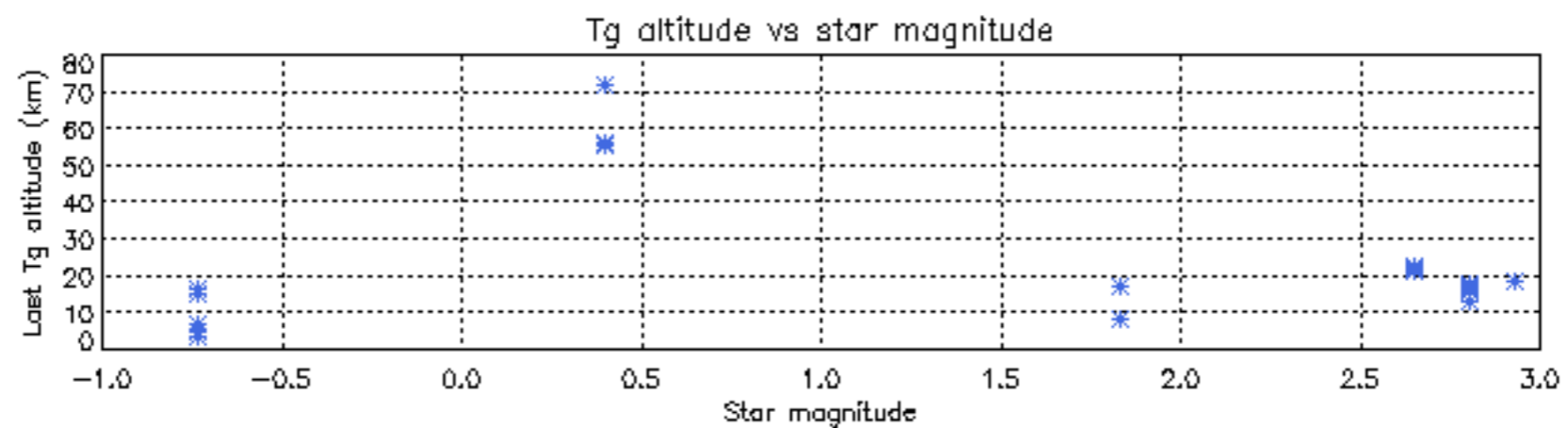
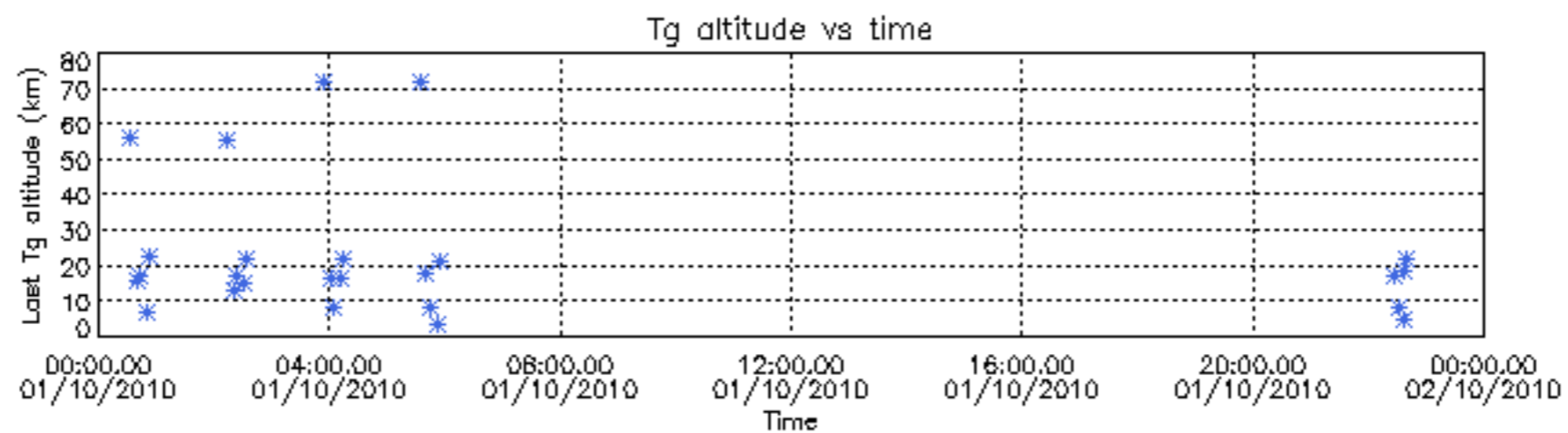
Percentage of star falling outside central band per profile



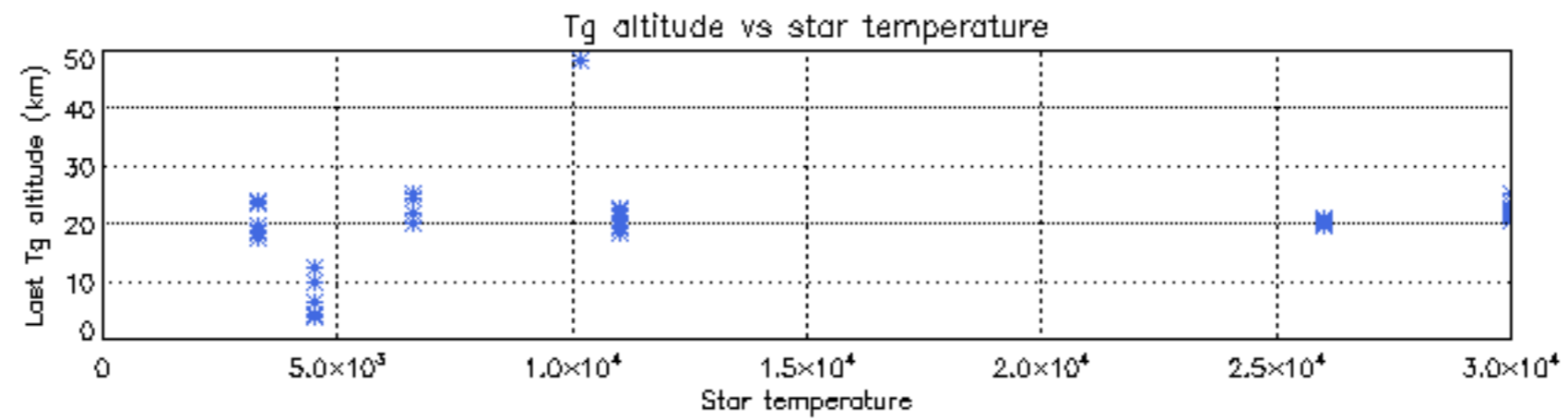
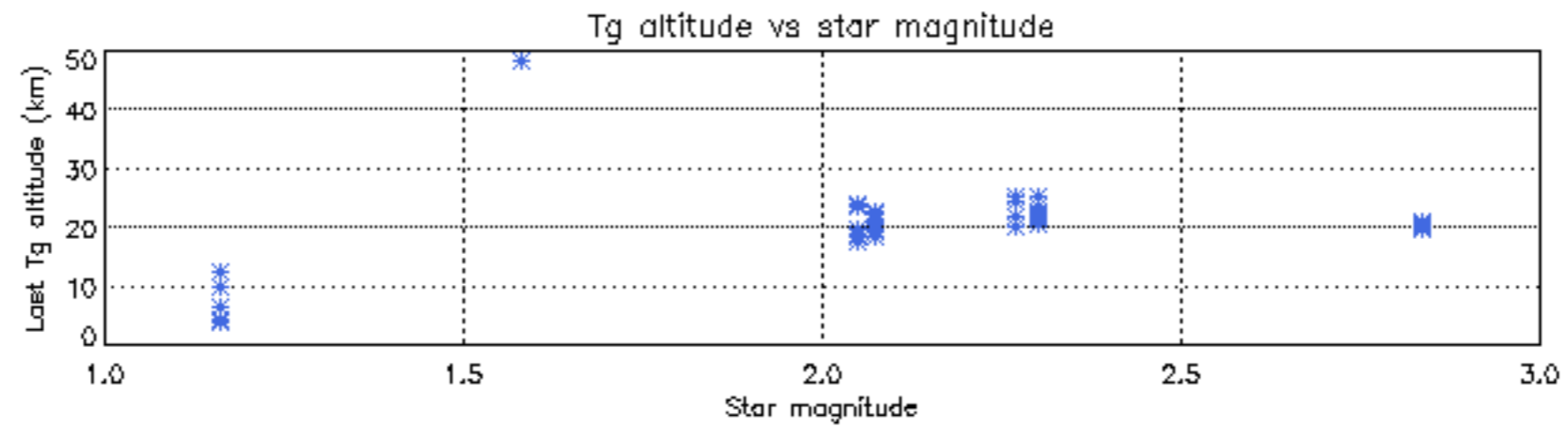
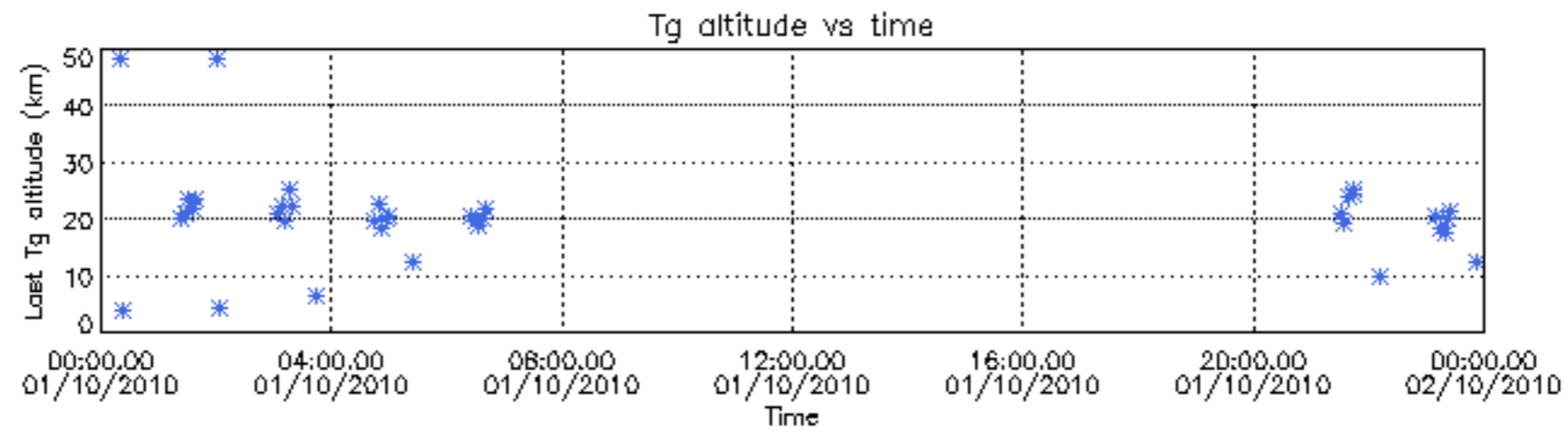
Percentage of saturation errors per profile

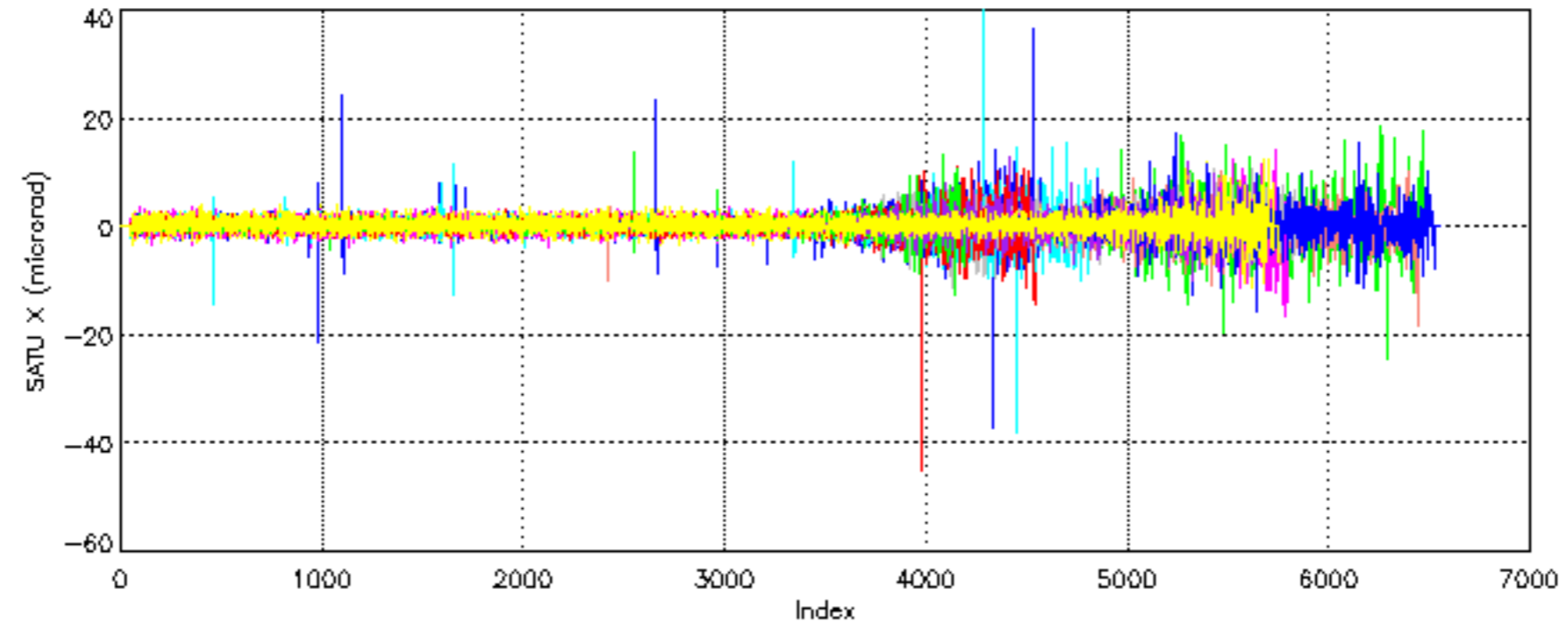


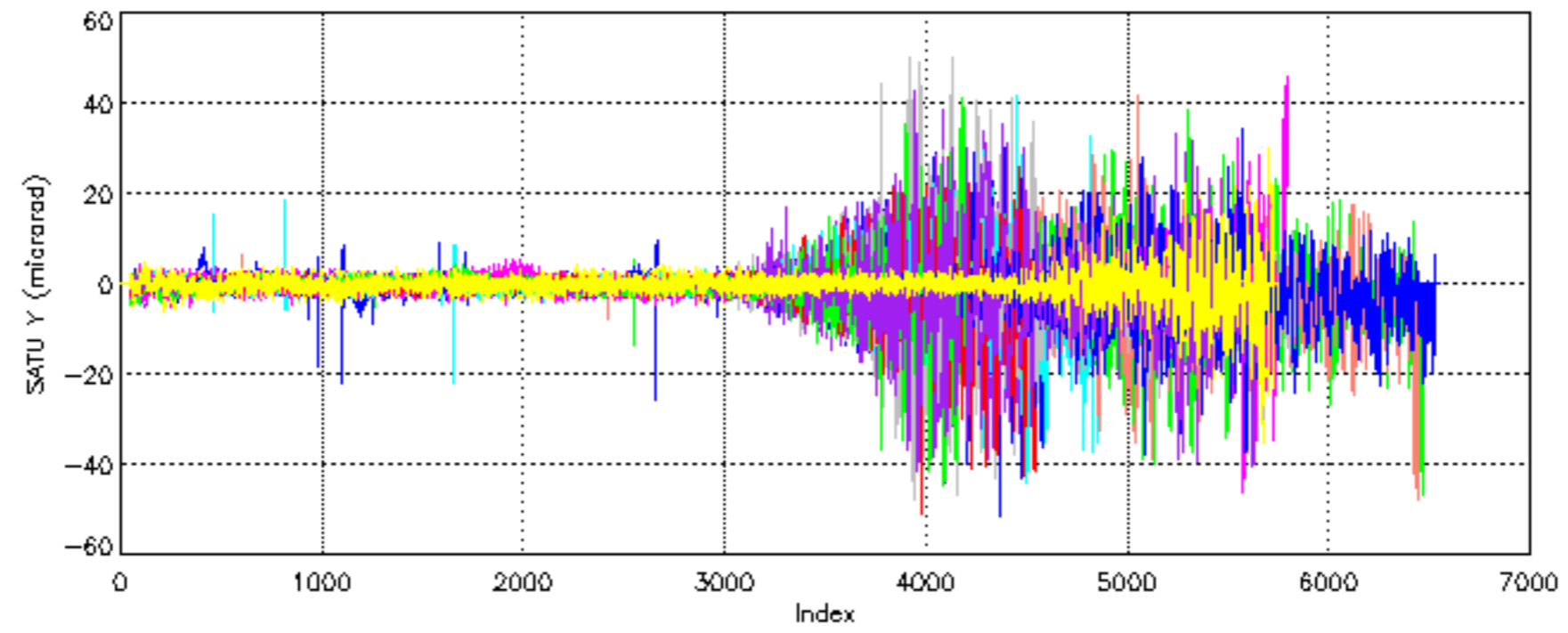
Tangent altitude at which the star is lost

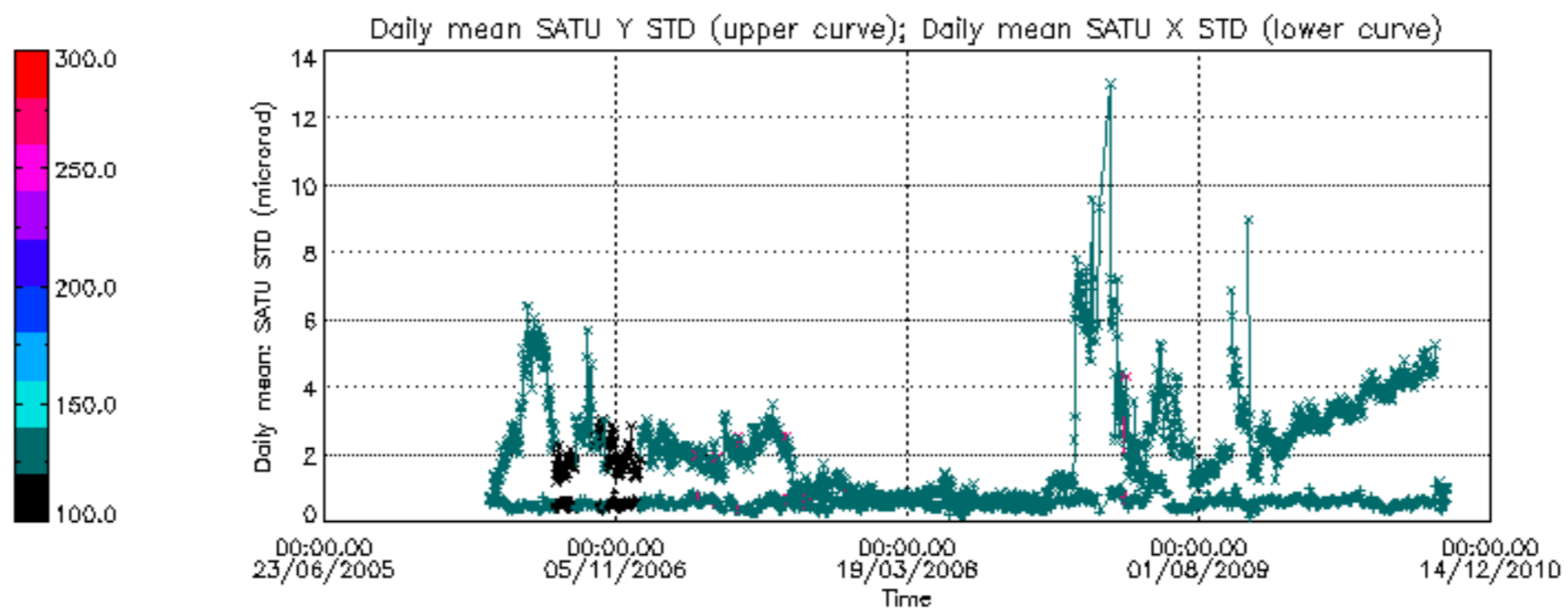


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_021202_000039472093_00246_44889_0966.N1

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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_034149_000045962093_00247_44890_0967.N1

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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_052225_000045952093_00248_44891_0968.N1

1; -1523.5; 01-OCT-2010 05:22:25; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 0;44891
 2; -1435.0; 01-OCT-2010 05:23:54; Bright; 61.5; 17; 78Bet Gem ; 1.16; 4500;occ; 123; 0;44891
 3; -872.8; 01-OCT-2010 05:33:16; Dark ; 30.0; 8; 10Alp CMi ; 0.40; 6500;occ; 60; 0;44891
 4; -449.9; 01-OCT-2010 05:40:19; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;44891
 5; -200.8; 01-OCT-2010 05:44:28; Dark ; 64.5; 37; 25Del CMA ; 1.83; 5900;occ; 129; 0;44891
 6; -41.9; 01-OCT-2010 05:47:07; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44891
 7; 170.7; 01-OCT-2010 05:50:39; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44892
 8; 305.2; 01-OCT-2010 05:52:54; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44892
 9; 915.1; 01-OCT-2010 06:03:04; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44892
 10; 1557.4; 01-OCT-2010 06:13:46; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44892
 11; 2185.4; 01-OCT-2010 06:24:14; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44892
 12; 2435.1; 01-OCT-2010 06:28:24; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44892
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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
6; 3028.2; 01-OCT-2010 21:43:40; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44901
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3; 93.8; 01-OCT-2010 22:35:22; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;44902
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6; 148.5; 17-OCT-2010 07:27:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45122
7; 352.7; 17-OCT-2010 07:31:21; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;45122
8; 1053.8; 17-OCT-2010 07:43:02; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;45122
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2; 2549.0; 17-OCT-2010 08:07:58; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;45122
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
5; 2982.0; 17-OCT-2010 08:15:11; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;45122
6; 3068.6; 17-OCT-2010 08:16:37; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;45122
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
9; 5287.0; 17-OCT-2010 08:53:36; Dark ; 52.5; 48; 30Alp Hya ; 1.98; 4100;occ; 105; 0;45122

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14; 7090.1; 17-OCT-2010 09:23:39; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;45122
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 4; 2752.8; 17-OCT-2010 09:51:57; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;45123
 5; 2981.6; 17-OCT-2010 09:55:46; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;45123
 6; 3068.0; 17-OCT-2010 09:57:12; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;45123
 7; 4639.1; 17-OCT-2010 10:23:24; Bright; 41.0; 166; 17Eps Leo ; 2.98; 6000;occ; 82; 0;45123
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 8; 4837.5; 17-OCT-2010 12:07:18; Bright; 42.0; 22; 32Alp Leo ; 1.36; 15200;occ; 84; 0;45124
 9; 5288.4; 17-OCT-2010 12:14:49; Dark ; 52.0; 48; 30Alp Hya ; 1.98; 4100;occ; 104; 0;45124
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13; 6390.8; 17-OCT-2010 12:33:11; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;45124
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 3; 2638.3; 17-OCT-2010 13:11:15; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;45125
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 6; 3066.4; 17-OCT-2010 13:18:23; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;45125
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 9; 5289.2; 17-OCT-2010 13:55:25; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;45125
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13; 6391.7; 17-OCT-2010 14:13:48; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;45125
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 8; 4848.2; 19-OCT-2010 12:44:50; Bright; 59.0; 22; 32Alp Leo ; 1.36; 15200;occ; 118; 0;45153
 9; 5310.8; 19-OCT-2010 12:52:33; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;45153
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 4; 2973.0; 19-OCT-2010 15:34:47; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;45155
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 6; 4647.9; 19-OCT-2010 16:02:41; Bright; 44.0; 166; 17Eps Leo ; 2.98; 6000;occ; 88; 0;45155
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 8; 5312.5; 19-OCT-2010 16:13:46; Dark ; 54.5; 48; 30Alp Hya ; 1.98; 4100;occ; 109; 0;45155
 9; 5879.2; 19-OCT-2010 16:23:13; Dark ; 56.0; 132; 15Rho Pup ; 2.80; 6900;occ; 112; 0;45155
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 6; 2972.5; 19-OCT-2010 17:15:22; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;45156
 7; 3058.9; 19-OCT-2010 17:16:48; Bright; 53.5; 35; 33Alp Per ; 1.79; 6250;occ; 107; 0;45156
 8; 4648.3; 19-OCT-2010 17:43:18; Bright; 60.0; 166; 17Eps Leo ; 2.98; 6000;occ; 120; 0;45156
 9; 4849.5; 19-OCT-2010 17:46:39; Bright; 60.0; 22; 32Alp Leo ; 1.36; 15200;occ; 120; 0;45156
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 3; 2539.5; 19-OCT-2010 18:48:45; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;45157
 4; 2733.4; 19-OCT-2010 18:51:59; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;45157
 5; 2889.9; 19-OCT-2010 18:54:35; Bright; 42.0; 79; 26Bet Per ; 2.31; 13100;occ; 84; 0;45157
 6; 2972.2; 19-OCT-2010 18:55:58; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;45157
 7; 3058.0; 19-OCT-2010 18:57:24; Bright; 50.0; 35; 33Alp Per ; 1.79; 6250;occ; 100; 0;45157
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3; 44.9; 20-OCT-2010 00:49:34; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;45161
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6; 1072.1; 20-OCT-2010 01:06:41; Dark ; 42.0; 157; The1Eri ; 2.91; 9300;occ; 84; 0;45161
7; 2322.7; 20-OCT-2010 01:27:32; Bright; 45.0; 105; 6Bet Ari ; 2.64; 8900;occ; 90; 0;45161
8; 2538.1; 20-OCT-2010 01:31:07; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;45161
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4; 45.7; 20-OCT-2010 02:30:11; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;45162
5; 184.8; 20-OCT-2010 02:32:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45162
6; 385.1; 20-OCT-2010 02:35:50; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;45162
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8; 2322.2; 20-OCT-2010 03:08:07; Bright; 45.0; 105; 6Bet Ari ; 2.64; 8900;occ; 90; 0;45162
9; 2537.8; 20-OCT-2010 03:11:43; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;45162
10; 2730.7; 20-OCT-2010 03:14:56; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;45162
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 4; 2863.1; 21-OCT-2010 16:10:18; Bright; 53.0; 79; 26Bet Per ; 2.31; 13100;occ; 106; 0;45184
 5; 3024.1; 21-OCT-2010 16:12:59; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;45184
 6; 4860.6; 21-OCT-2010 16:43:36; Bright; 42.5; 22; 32Alp Leo ; 1.36; 15200;occ; 85; 0;45184
 7; 5336.7; 21-OCT-2010 16:51:32; Dark ; 58.5; 48; 30Alp Hya ; 1.98; 4100;occ; 117; 0;45184
 8; 5922.5; 21-OCT-2010 17:01:17; Dark ; 58.0; 132; 15Rho Pup ; 2.80; 6900;occ; 116; 0;45184
 9; 6066.6; 21-OCT-2010 17:03:41; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;45184
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11; 6439.6; 21-OCT-2010 17:09:55; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;45184
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 3; 2532.8; 21-OCT-2010 17:45:24; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;45185
 4; 2719.0; 21-OCT-2010 17:48:30; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;45185
 5; 2862.1; 21-OCT-2010 17:50:53; Bright; 54.0; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;45185
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 7; 4861.1; 21-OCT-2010 18:24:12; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;45185
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