

GOMOS Daily Report 12-MAY-2011

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	16MAY2011 07:06:10
Data source version	GOMOS/5.01
Start time of products	12MAY2011 00:00:16
Stop time of products	12MAY2011 23:58:21
Store outputs in DB	Yes
Nb of level 1b prods	319
Nb of prods with errors	5

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

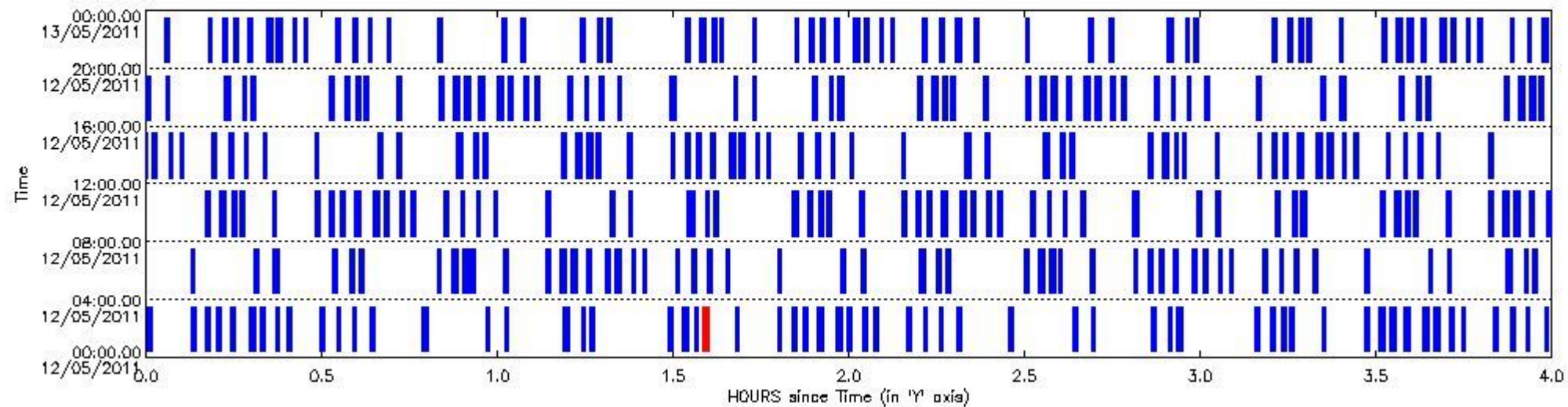
2.1 Level 0 products arrived in PCF (see template [here](#))

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
12-MAY-2011 01:35:02	AlpGru	31	48091

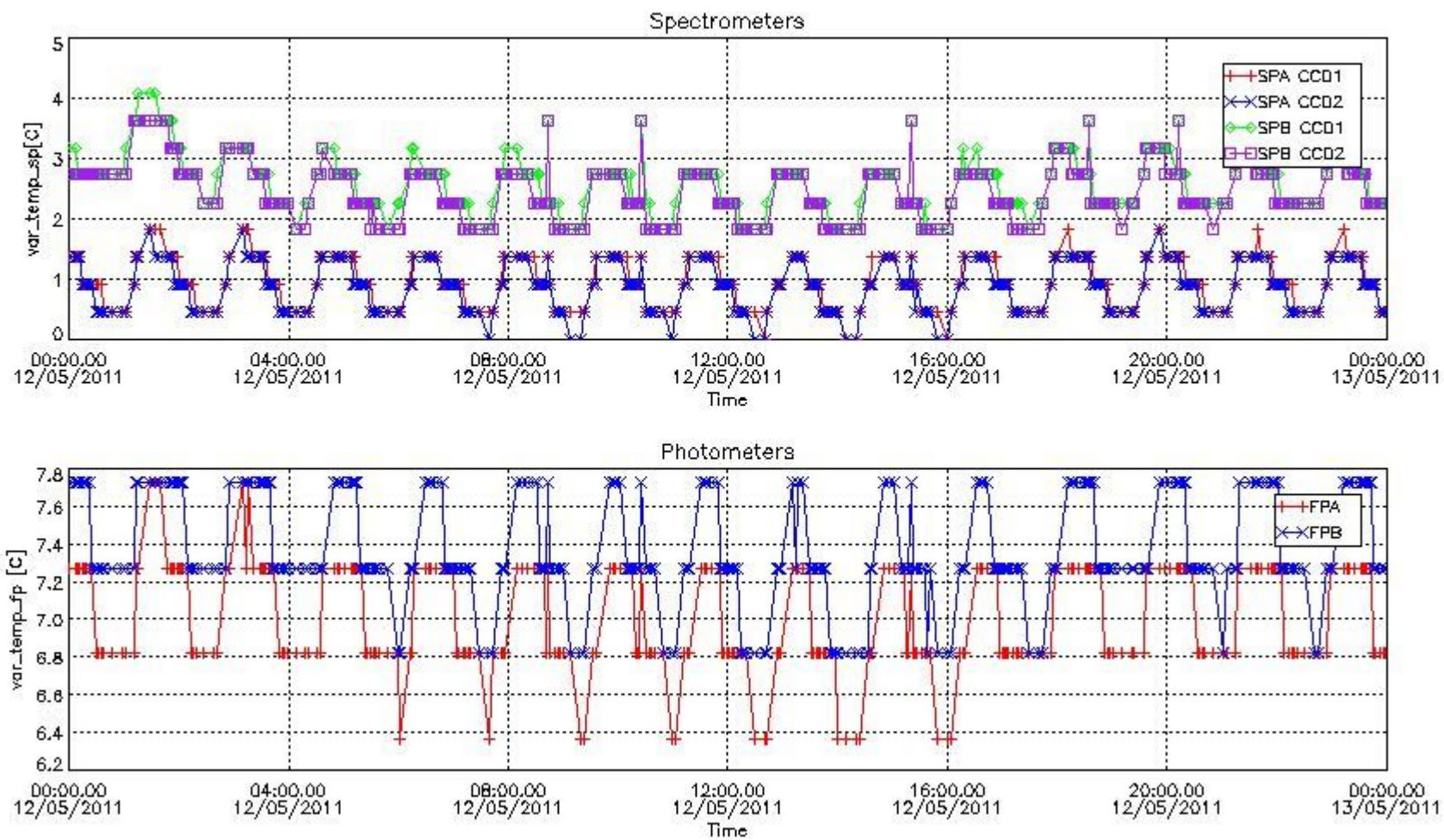
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20110512_000016_000000423102_00232_48091_5203.N1	12-MAY-2011 00:00:16	Dark	42.000	45	Alp Pav	1.9400	26000.	84	48091	No
2	GOM_TRA_1PNPDE20110512_000735_000000463102_00232_48091_5204.N1	12-MAY-2011 00:07:35	Straylight	45.500	141	Bet Ara	2.8400	4600.0	91	48091	No
3	GOM_TRA_1PNPDE20110512_001000_000000533102_00232_48091_5205.N1	12-MAY-2011 00:10:00	Straylight	52.500	40	The Sco	1.8590	7100.0	105	48091	No
4	GOM_TRA_1PNPDE20110512_001151_000000563102_00232_48091_5206.N1	12-MAY-2011 00:11:51	Straylight	55.500	25	35Lam Sco	1.6200	28000.	111	48091	No
5	GOM_TRA_1PNPDE20110512_001421_000000543102_00232_48091_5207.N1	12-MAY-2011 00:14:21	Straylight	54.000	75	26Eps Sco	2.2910	4250.0	108	48091	No
6	GOM_TRA_1PNPDE20110512_001733_000000633102_00232_48091_5208.N1	12-MAY-2011 00:17:33	Twilight_stray	63.000	16	21Alp Sco	1.0200	3000.0	126	48091	No
7	GOM_TRA_1PNPDE20110512_001922_000000563102_00232_48091_5209.N1	12-MAY-2011 00:19:22	Bright	56.000	80	7Del Sco	2.3160	30000.	112	48091	No
8	GOM_TRA_1PNPDE20110512_002208_000000393102_00232_48091_5210.N1	12-MAY-2011 00:22:08	Bright	39.000	122	9Alp2Lib	2.7470	9700.0	78	48091	No
9	GOM_TRA_1PNPDE20110512_002404_000000413102_00232_48091_5211.N1	12-MAY-2011 00:24:04	Bright	40.500	104	27Bet Lib	2.6140	13100.	81	48091	No
10	GOM_TRA_1PNPDE20110512_002938_000000473102_00232_48091_5212.N1	12-MAY-2011 00:29:38	Bright	47.000	102	24Alp Ser	2.6000	4250.0	94	48091	No

11	GOM_TRA_1PNPDE20110512_003232_000000383102_00232_48091_5213.N1	12-MAY-2011 00:32:32	Bright	37.500	3	16Alp Boo	-0.050000	4250.0	75	48091	No
12	GOM_TRA_1PNPDE20110512_003508_000000423102_00232_48091_5214.N1	12-MAY-2011 00:35:08	Bright	42.000	83		2.3780	11000.	84	48091	No
13	GOM_TRA_1PNPDE20110512_003815_000000383102_00232_48091_5215.N1	12-MAY-2011 00:38:15	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	48091	No
14	GOM_TRA_1PNPDE20110512_004708_000000623102_00232_48091_5216.N1	12-MAY-2011 00:47:08	Bright	62.000	119	14Eta Dra	2.7270	4700.0	124	48091	No
15	GOM_TRA_1PNPDE20110512_005758_000000433102_00232_48091_5217.N1	12-MAY-2011 00:57:58	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	48091	No
16	GOM_TRA_1PNPDE20110512_010114_000000383102_00232_48091_5218.N1	12-MAY-2011 01:01:14	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	48091	No
17	GOM_TRA_1PNPDE20110512_011115_000000553102_00232_48091_5219.N1	12-MAY-2011 01:11:15	Twilight	55.000	93	53Bet Peg	2.5200	3100.0	110	48091	No
18	GOM_TRA_1PNPDE20110512_011417_000000413102_00232_48091_5220.N1	12-MAY-2011 01:14:17	Twilight	41.000	140	88Gam Peg	2.8340	26000.	82	48091	No
19	GOM_TRA_1PNPDE20110512_011543_000000493102_00232_48091_5221.N1	12-MAY-2011 01:15:43	Dark	48.500	90	54Alp Peg	2.4870	11000.	97	48091	No
20	GOM_TRA_1PNPDE20110512_012906_000000483102_00232_48091_5256.N1	12-MAY-2011 01:29:06	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	48091	No
21	GOM_TRA_1PNPDE20110512_013334_000000453102_00232_48091_5257.N1	12-MAY-2011 01:33:34	Dark	45.000	63	Bet Gru	2.1500	2800.0	90	48091	No
22	GOM_TRA_1PNPDE20110512_014031_000000423102_00233_48092_5258.N1	12-MAY-2011 01:40:31	Dark	42.000	45	Alp Pav	1.9400	26000.	84	48092	No
23	GOM_TRA_1PNPDE20110512_014749_000000423102_00233_48092_5259.N1	12-MAY-2011 01:47:49	Straylight	42.000	141	Bet Ara	2.8400	4600.0	84	48092	No
24	GOM_TRA_1PNPDE20110512_015014_000000503102_00233_48092_5260.N1	12-MAY-2011 01:50:14	Straylight	49.500	40	The Sco	1.8590	7100.0	99	48092	No
25	GOM_TRA_1PNPDE20110512_015205_000000553102_00233_48092_5261.N1	12-MAY-2011 01:52:05	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	48092	No
26	GOM_TRA_1PNPDE20110512_015435_000000563102_00233_48092_5262.N1	12-MAY-2011 01:54:35	Straylight	55.500	75	26Eps Sco	2.2910	4250.0	111	48092	No
27	GOM_TRA_1PNPDE20110512_015748_000000693102_00233_48092_5263.N1	12-MAY-2011 01:57:48	Twilight	69.000	16	21Alp Sco	1.0200	3000.0	138	48092	No
28	GOM_TRA_1PNPDE20110512_015936_000000583102_00233_48092_5264.N1	12-MAY-2011 01:59:36	Bright	58.000	80	7Del Sco	2.3160	30000.	116	48092	No
29	GOM_TRA_1PNPDE20110512_020222_000000403102_00233_48092_5265.N1	12-MAY-2011 02:02:22	Bright	40.000	122	9Alp2Lib	2.7470	9700.0	80	48092	No
30	GOM_TRA_1PNPDE20110512_020417_000000423102_00233_48092_5266.N1	12-MAY-2011 02:04:17	Bright	41.500	104	27Bet Lib	2.6140	13100.	83	48092	No
31	GOM_TRA_1PNPDE20110512_020952_000000483102_00233_48092_5267.N1	12-MAY-2011 02:09:52	Bright	47.500	102	24Alp Ser	2.6000	4250.0	95	48092	No
32	GOM_TRA_1PNPDE20110512_021246_000000383102_00233_48092_5268.N1	12-MAY-2011 02:12:46	Bright	38.000	3	16Alp Boo	-0.050000	4250.0	76	48092	No
33	GOM_TRA_1PNPDE20110512_021522_000000403102_00233_48092_5269.N1	12-MAY-2011 02:15:22	Bright	39.500	83		2.3780	11000.	79	48092	No
34	GOM_TRA_1PNPDE20110512_021828_000000423102_00233_48092_5270.N1	12-MAY-2011 02:18:28	Bright	42.000	180	27Gam Boo	3.0400	8000.0	84	48092	No
35	GOM_TRA_1PNPDE20110512_022721_000000423102_00233_48092_5271.N1	12-MAY-2011 02:27:21	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	48092	No
36	GOM_TRA_1PNPDE20110512_023812_000000443102_00233_48092_5272.N1	12-MAY-2011 02:38:12	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	48092	No
37	GOM_TRA_1PNPDE20110512_024128_000000373102_00233_48092_5273.N1	12-MAY-2011 02:41:28	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	48092	No
38	GOM_TRA_1PNPDE20110512_025129_000000563102_00233_48092_5274.N1	12-MAY-2011 02:51:29	Twilight	55.500	93	53Bet Peg	2.5200	3100.0	111	48092	No
39	GOM_TRA_1PNPDE20110512_025431_000000423102_00233_48092_5275.N1	12-MAY-2011 02:54:31	Twilight	41.500	140	88Gam Peg	2.8340	26000.	83	48092	No
40	GOM_TRA_1PNPDE20110512_025558_000000533102_00233_48092_5276.N1	12-MAY-2011 02:55:58	Dark	52.500	90	54Alp Peg	2.4870	11000.	105	48092	No
41	GOM_TRA_1PNPDE20110512_030921_000000483102_00233_48092_5277.N1	12-MAY-2011 03:09:21	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	48092	No
42	GOM_TRA_1PNPDE20110512_031348_000000463102_00233_48092_5278.N1	12-MAY-2011 03:13:48	Dark	45.500	63	Bet Gru	2.1500	2800.0	91	48092	No
43	GOM_TRA_1PNPDE20110512_031511_000000443102_00233_48092_5279.N1	12-MAY-2011 03:15:11	Dark	43.500	31	Alp Gru	1.7340	15200.	87	48092	No
44	GOM_TRA_1PNPDE20110512_032045_000000423102_00234_48093_5280.N1	12-MAY-2011 03:20:45	Dark	41.500	45	Alp Pav	1.9400	26000.	83	48093	No
45	GOM_TRA_1PNPDE20110512_032804_000000503102_00234_48093_5281.N1	12-MAY-2011 03:28:04	Straylight	50.000	141	Bet Ara	2.8400	4600.0	100	48093	No
46	GOM_TRA_1PNPDE20110512_033029_000000563102_00234_48093_5282.N1	12-MAY-2011 03:30:29	Straylight	55.500	40	The Sco	1.8590	7100.0	111	48093	No
47	GOM_TRA_1PNPDE20110512_033220_000000573102_00234_48093_5283.N1	12-MAY-2011 03:32:20	Straylight	57.000	25	35Lam Sco	1.6200	28000.	114	48093	No
48	GOM_TRA_1PNPDE20110512_033450_000000553102_00234_48093_5284.N1	12-MAY-2011 03:34:50	Straylight	55.000	75	26Eps Sco	2.2910	4250.0	110	48093	No
49	GOM_TRA_1PNPDE20110512_033802_000000663102_00234_48093_5285.N1	12-MAY-2011 03:38:02	Twilight	66.000	16	21Alp Sco	1.0200	3000.0	132	48093	No
50	GOM_TRA_1PNPDE20110512_033951_000000563102_00234_48093_5286.N1	12-MAY-2011 03:39:51	Bright	56.000	80	7Del Sco	2.3160	30000.	112	48093	No
51	GOM_TRA_1PNPDE20110512_034236_000000403102_00234_48093_5287.N1	12-MAY-2011 03:42:36	Bright	39.500	122	9Alp2Lib	2.7470	9700.0	79	48093	No
52	GOM_TRA_1PNPDE20110512_034431_000000423102_00234_48093_5288.N1	12-MAY-2011 03:44:31	Bright	42.000	104	27Bet Lib	2.6140	13100.	84	48093	No
53	GOM_TRA_1PNPDE20110512_035005_000000473102_00234_48093_5289.N1	12-MAY-2011 03:50:05	Bright	47.000	102	24Alp Ser	2.6000	4250.0	94	48093	No
54	GOM_TRA_1PNPDE20110512_035300_000000383102_00234_48093_5290.N1	12-MAY-2011 03:53:00	Bright	37.500	3	16Alp Boo	-0.050000	4250.0	75	48093	No
55	GOM_TRA_1PNPDE20110512_035536_000000433102_00234_48093_5291.N1	12-MAY-2011 03:55:36	Bright	42.500	83		2.3780	11000.	85	48093	No
56	GOM_TRA_1PNPDE20110512_035842_000000393102_00234_48093_5292.N1	12-MAY-2011 03:58:42	Bright	38.500	180	27Gam Boo	3.0400	8000.0	77	48093	No
57	GOM_TRA_1PNPDE20110512_040735_000000413102_00234_48093_5293.N1	12-MAY-2011 04:07:35	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	48093	No
58	GOM_TRA_1PNPDE20110512_041826_000000453102_00234_48093_5284.N1	12-MAY-2011 04:18:26	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	48093	No
59	GOM_TRA_1PNPDE20110512_042141_000000553102_00234_48093_5285.N1	12-MAY-2011 04:21:41	Bright	55.000	74	11Bet Cas	2.2680	6600.0	110	48093	No
60	GOM_TRA_1PNPDE20110512_043143_000000553102_00234_48093_5286.N1	12-MAY-2011 04:31:43	Twilight	55.000	93	53Bet Peg	2.5200	3100.0	110	48093	No
61	GOM_TRA_1PNPDE20110512_043446_000000423102_00234_48093_5287.N1	12-MAY-2011 04:34:46	Twilight	42.000	140	88Gam Peg	2.8340	26000.	84	48093	No
62	GOM_TRA_1PNPDE20110512_043612_000000533102_00234_48093_5288.N1	12-MAY-2011 04:36:12	Dark	52.500	90	54Alp Peg	2.4870	11000.	105	48093	No
63	GOM_TRA_1PNPDE20110512_044936_000000473102_00234_48093_5289.N1	12-MAY-2011 04:49:36	Dark	47.000	18	24Alp PsA	1.1660	9700.0	94	48093	No
64	GOM_TRA_1PNPDE20110512_045403_000000563102_00234_48093_5290.N1	12-MAY-2011 04:54:03	Dark	56.000	63	Bet Gru	2.1500	2800.0	112	48093	No
65	GOM_TRA_1PNPDE20110512_045526_000000443102_00234_48093_5291.N1	12-MAY-2011 04:55:26	Dark	44.000	31	Alp Gru	1.7340	15200.	88	48093	No
66	GOM_TRA_1PNPDE20110512_050100_000000433102_00235_48094_5292.N1	12-MAY-2011 05:01:00	Dark	42.500	45	Alp Pav	1.9400	26000.	85	48094	No
67	GOM_TRA_1PNPDE20110512_050818_000000473102_00235_48094_5293.N1	12-MAY-2011 05:08:18	Straylight	46.500	141	Bet Ara	2.8400	4600.0	93	48094	No
68	GOM_TRA_1PNPDE20110512_051044_000000543102_00235_48094_5294.N1	12-MAY-2011 05:10:44	Straylight	53.500	40	The Sco	1.8590	7100.0	107	48094	No
69	GOM_TRA_1PNPDE20110512_051235_000000553102_00235_48094_5295.N1	12-MAY-2011 05:12:35	Straylight	55.000	25	35Lam Sco	1.6200	28000.	110	48094	No

306	GOM_TRA_1PNPDE20110512_231644_000000573102_00245_48104_5460.N1	12-MAY-2011 23:16:44	Dark	56.500	63	Bet Gru	2.1500	2800.0	113	48104	No
307	GOM_TRA_1PNPDE20110512_231808_000000433102_00245_48104_5461.N1	12-MAY-2011 23:18:08	Dark	42.500	31	Alp Gru	1.7340	15200.	85	48104	No
308	GOM_TRA_1PNPDE20110512_232342_000000413102_00246_48105_5462.N1	12-MAY-2011 23:23:42	Dark	41.000	45	Alp Pav	1.9400	26000.	82	48105	No
309	GOM_TRA_1PNPDE20110512_233058_000000473102_00246_48105_5463.N1	12-MAY-2011 23:30:58	Straylight	46.500	141	Bet Ara	2.8400	4600.0	93	48105	No
310	GOM_TRA_1PNPDE20110512_233325_000000553102_00246_48105_5464.N1	12-MAY-2011 23:33:25	Straylight	55.000	40	The Sco	1.8590	7100.0	110	48105	No
311	GOM_TRA_1PNPDE20110512_233516_000000583102_00246_48105_5465.N1	12-MAY-2011 23:35:16	Straylight	57.500	25	35Lam Sco	1.6200	28000.	115	48105	No
312	GOM_TRA_1PNPDE20110512_233744_000000523102_00246_48105_5466.N1	12-MAY-2011 23:37:44	Straylight	52.000	75	26Eps Sco	2.2910	4250.0	104	48105	No
313	GOM_TRA_1PNPDE20110512_234054_000000643102_00246_48105_5467.N1	12-MAY-2011 23:40:54	Twilight_stray	63.500	16	21Alp Sco	1.0200	3000.0	127	48105	No
314	GOM_TRA_1PNPDE20110512_234242_000000563102_00246_48105_5468.N1	12-MAY-2011 23:42:42	Bright	55.500	80	7Del Sco	2.3160	30000.	111	48105	No
315	GOM_TRA_1PNPDE20110512_234526_000000393102_00246_48105_5469.N1	12-MAY-2011 23:45:26	Bright	39.000	122	9Alp2Lib	2.7470	9700.0	78	48105	No
316	GOM_TRA_1PNPDE20110512_234720_000000413102_00246_48105_5470.N1	12-MAY-2011 23:47:20	Bright	41.000	104	27Bet Lib	2.6140	13100.	82	48105	No
317	GOM_TRA_1PNPDE20110512_235249_000000463102_00246_48105_5471.N1	12-MAY-2011 23:52:49	Bright	46.000	102	24Alp Ser	2.6000	4250.0	92	48105	No
318	GOM_TRA_1PNPDE20110512_235547_000000383102_00246_48105_5472.N1	12-MAY-2011 23:55:47	Bright	37.500	3	16Alp Boo	-0.050000	4250.0	75	48105	No
319	GOM_TRA_1PNPDE20110512_235821_000000573102_00246_48105_5473.N1	12-MAY-2011 23:58:21	Bright	57.000	83		2.3780	11000.	114	48105	No

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



4. Overview of dark signal processing per product

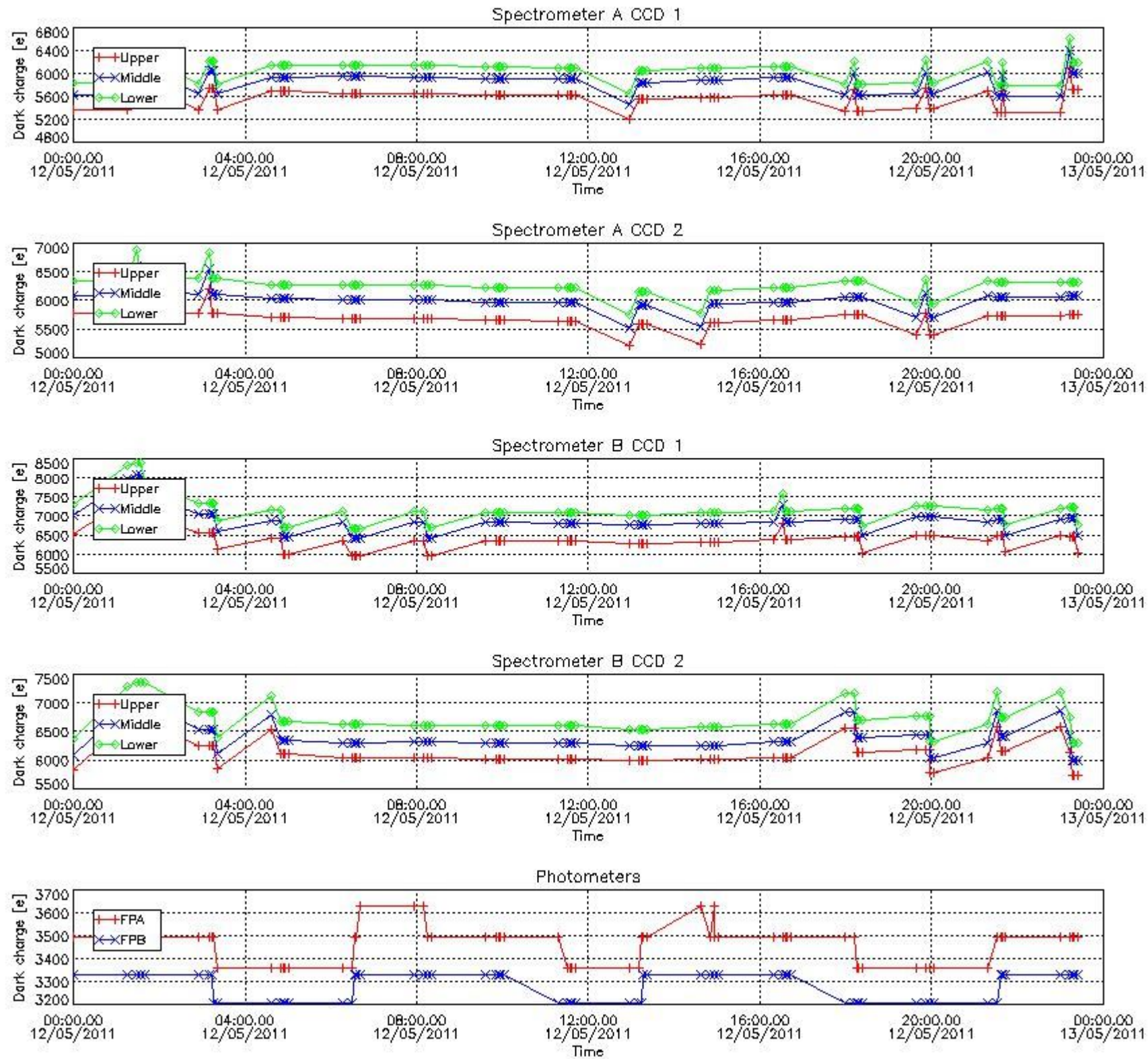
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20110512_201256_000000523102_00244_48103_5420.N1	DC map with no T dep.
GOM_TRA_1PNPDE20110512_201447_000000523102_00244_48103_5421.N1	DC map used
GOM_TRA_1PNPDE20110512_201715_000000573102_00244_48103_5422.N1	DC map used
GOM_TRA_1PNPDE20110512_202025_000000683102_00244_48103_5423.N1	DC map used
GOM_TRA_1PNPDE20110512_202213_000000563102_00244_48103_5424.N1	DC map used
GOM_TRA_1PNPDE20110512_202458_000000403102_00244_48103_5425.N1	DC map used
GOM_TRA_1PNPDE20110512_202652_000000413102_00244_48103_5426.N1	DC map used
GOM_TRA_1PNPDE20110512_203222_000000463102_00244_48103_5427.N1	DC map used
GOM_TRA_1PNPDE20110512_203520_000000373102_00244_48103_5428.N1	DC map used
GOM_TRA_1PNPDE20110512_203754_000000403102_00244_48103_5429.N1	DC map used
GOM_TRA_1PNPDE20110512_204101_000000363102_00244_48103_5430.N1	DC map used
GOM_TRA_1PNPDE20110512_204950_000000443102_00244_48103_5431.N1	DC map used
GOM_TRA_1PNPDE20110512_210041_000000433102_00244_48103_5432.N1	DC map used
GOM_TRA_1PNPDE20110512_210401_000000353102_00244_48103_5433.N1	DC map used
GOM_TRA_1PNPDE20110512_211405_000000573102_00244_48103_5434.N1	DC map used
GOM_TRA_1PNPDE20110512_211708_000000403102_00244_48103_5435.N1	DC map used
GOM_TRA_1PNPDE20110512_211837_000000533102_00244_48103_5436.N1	DC map used

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



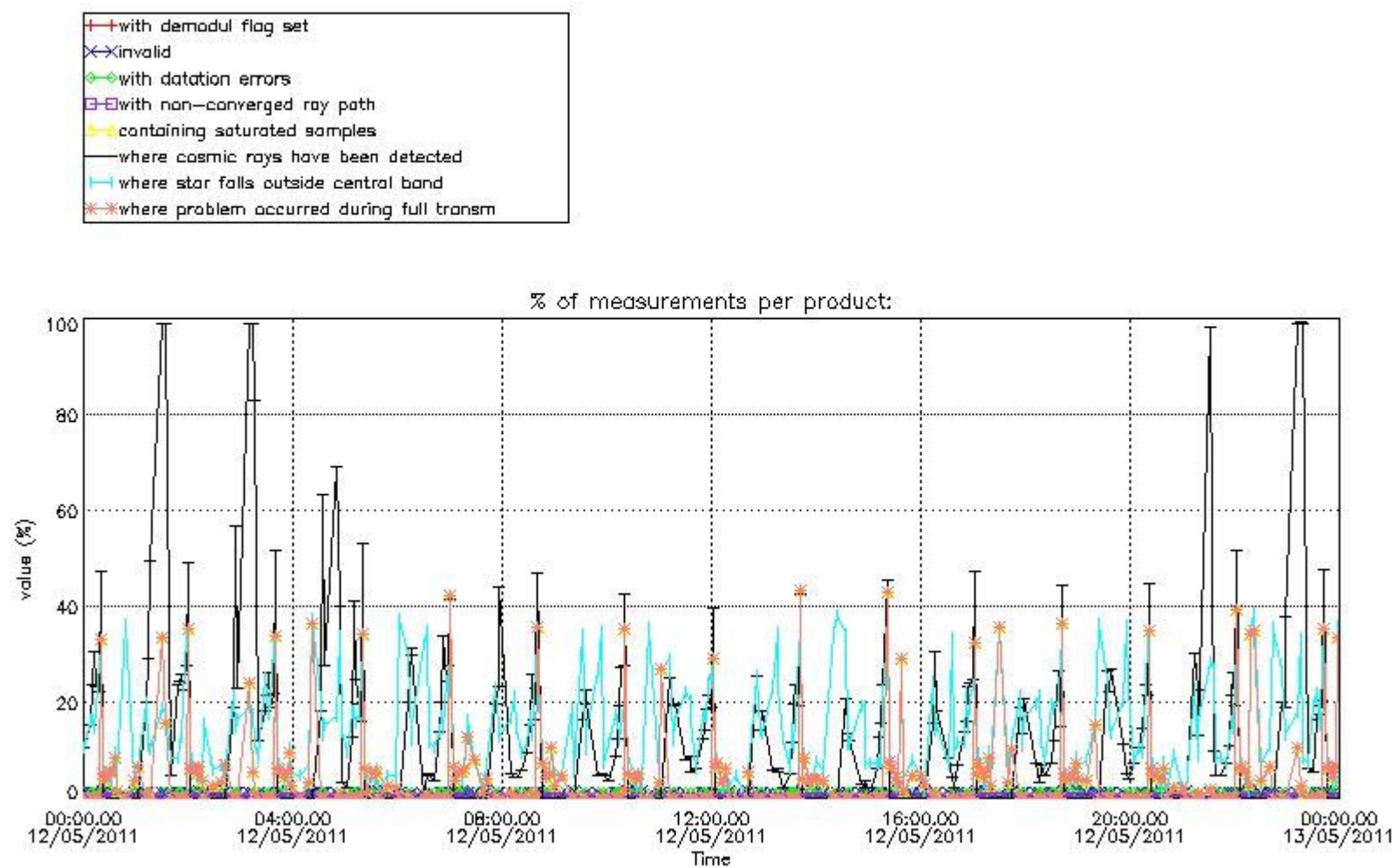
5. Demodulation flag and quality information monitoring

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.

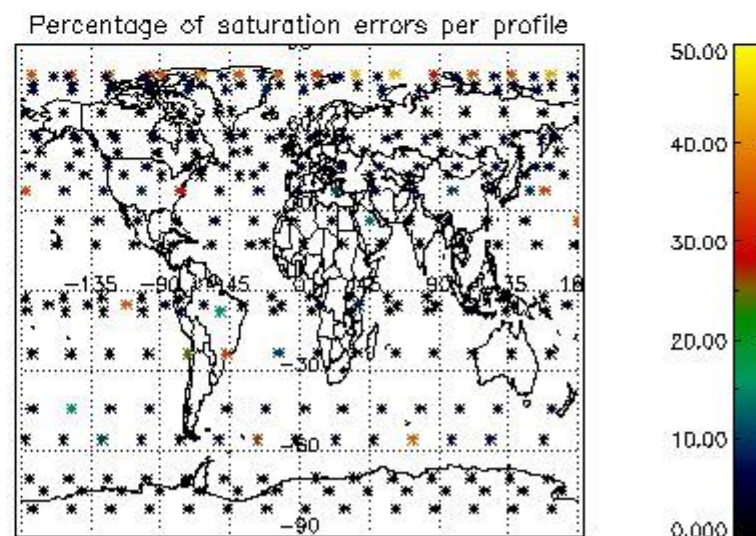
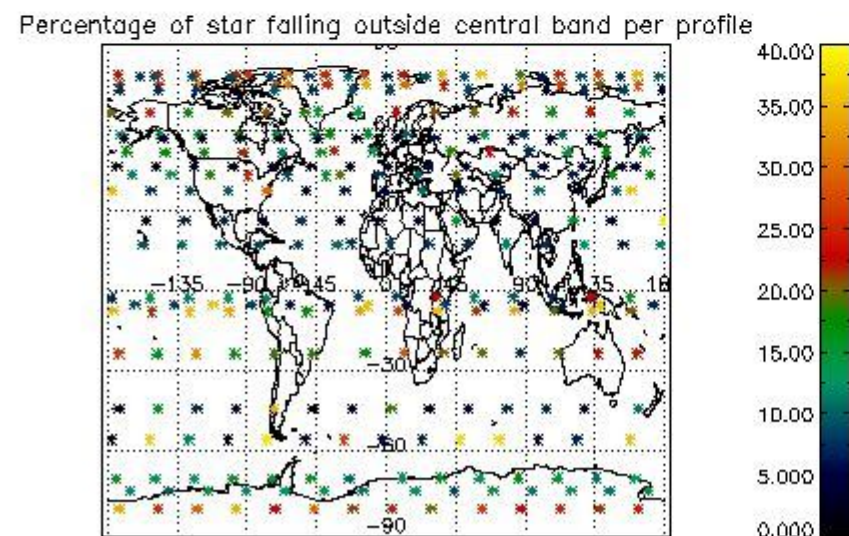
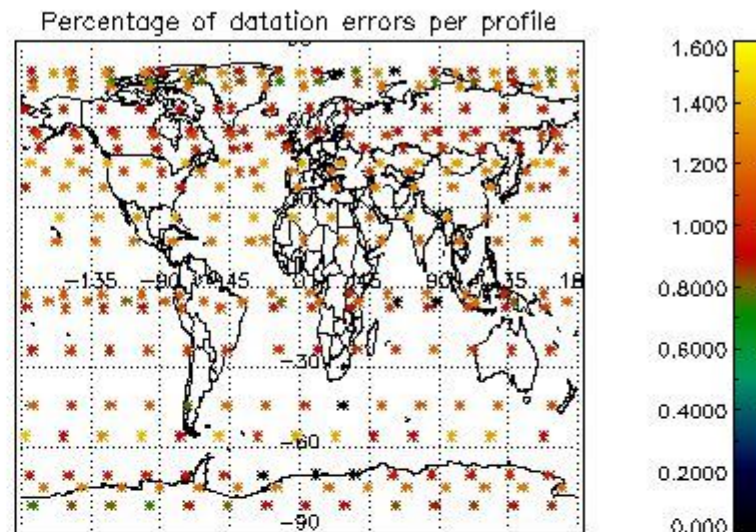
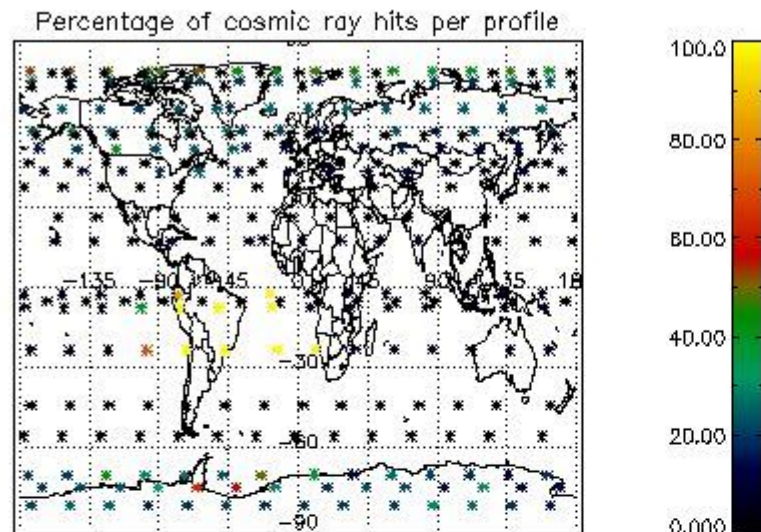
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	53.5032 %
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)



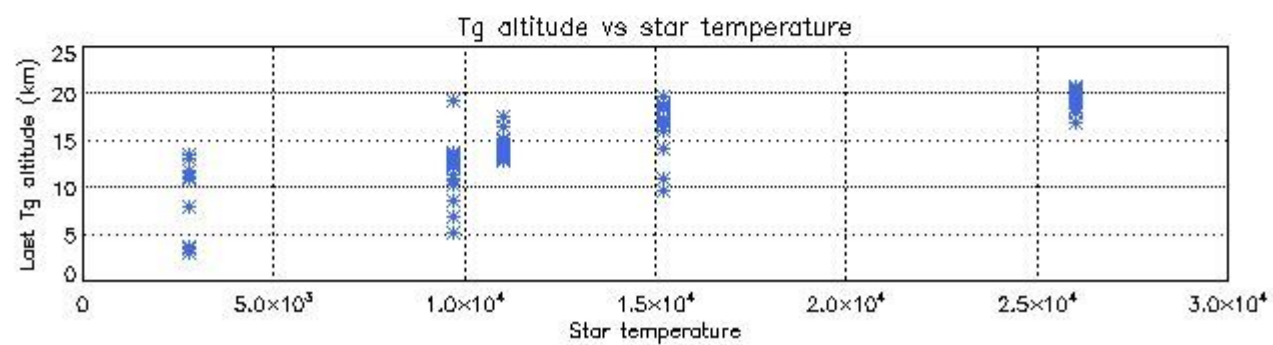
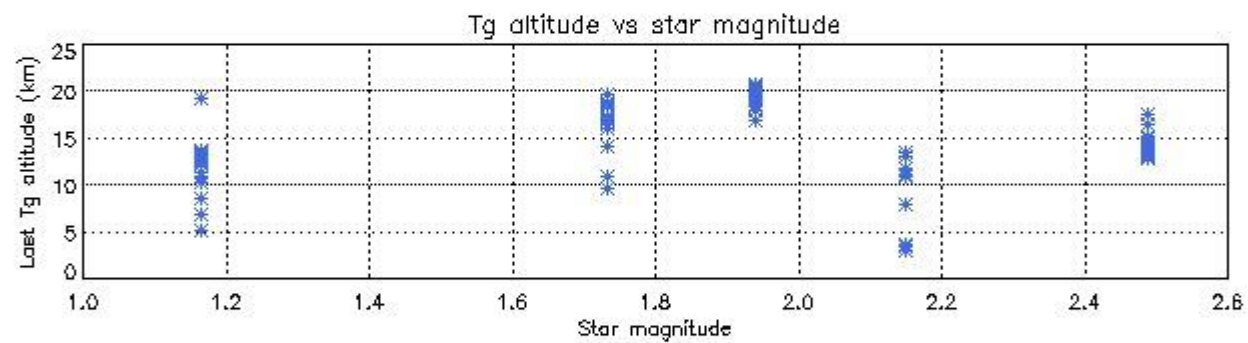
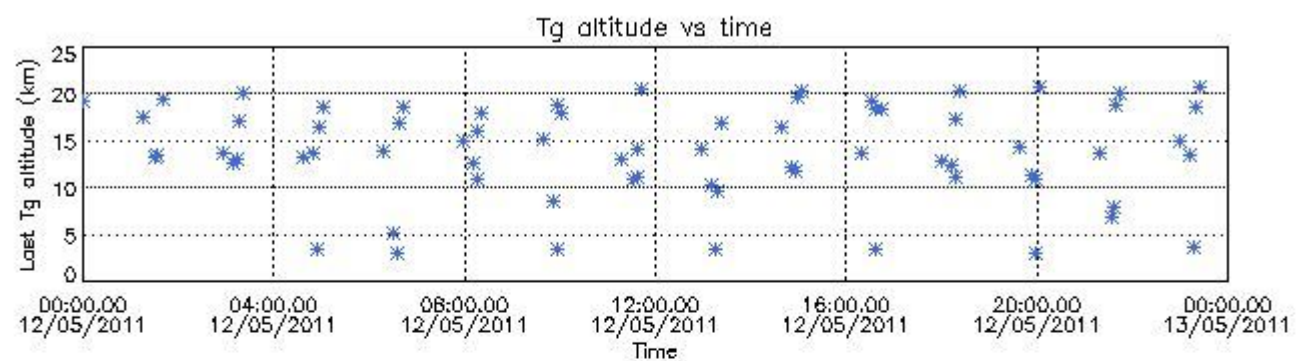
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.830	18.016	15.251
St. deviation:	5.0338	6.4059	1.3160
Maximum:	20.772	26.921	17.556
Minimum:	3.0193	2.5882	13.308
Number of data:	70.000	144.00	14.000

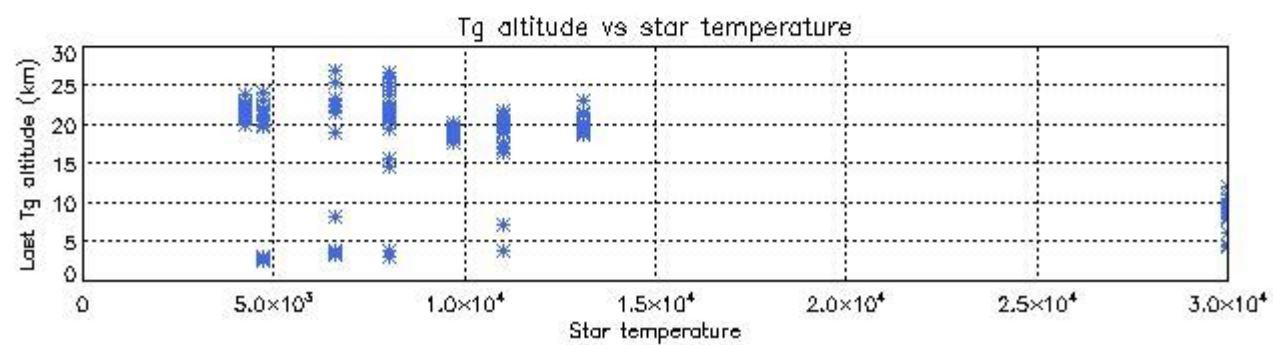
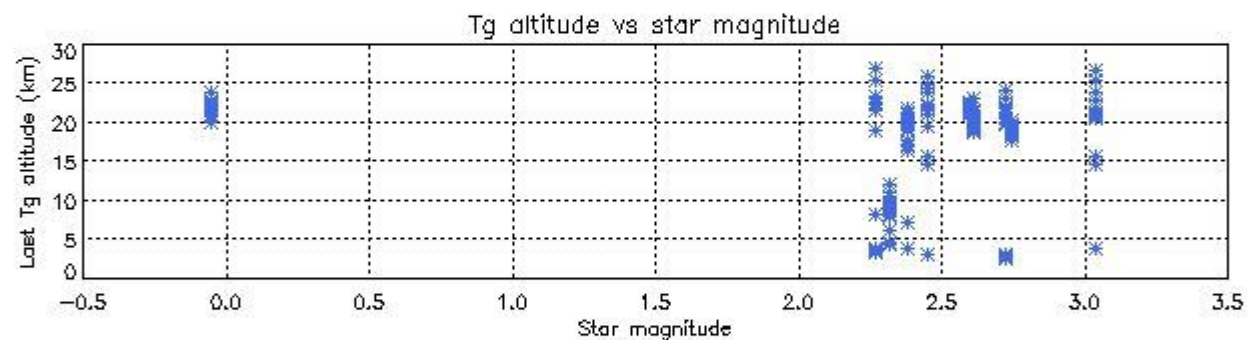
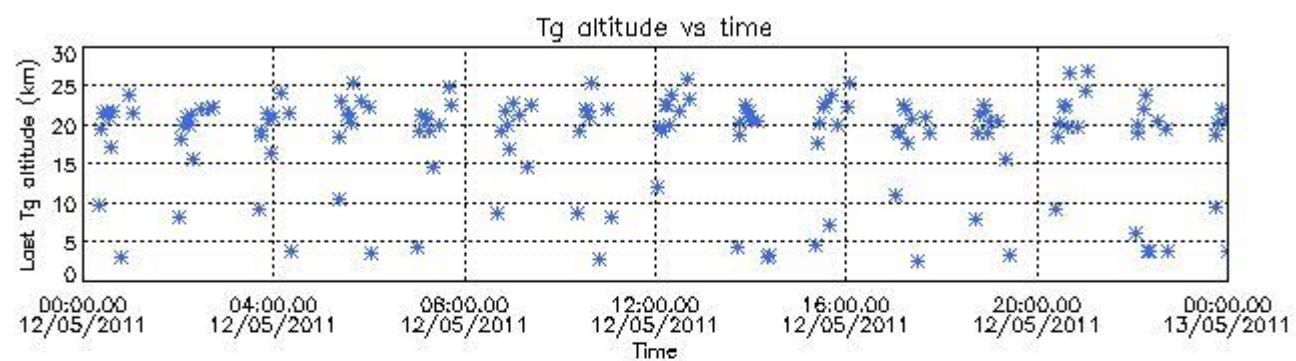
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



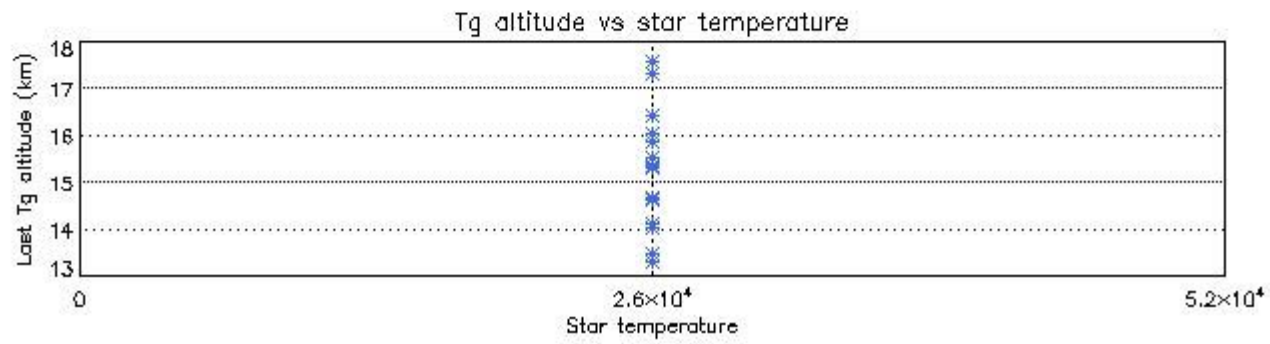
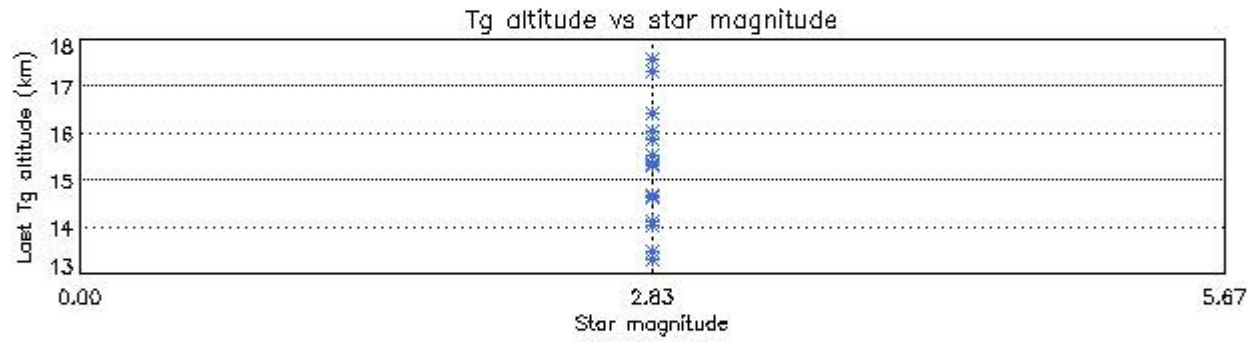
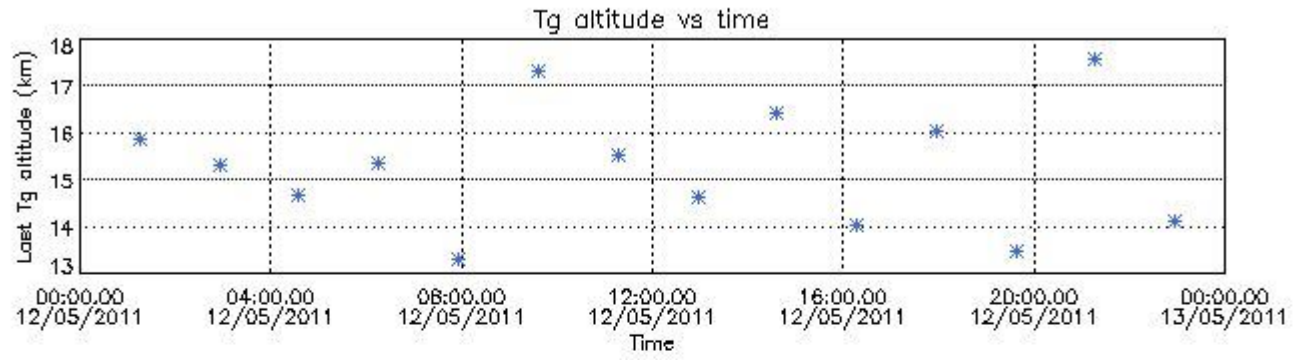
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

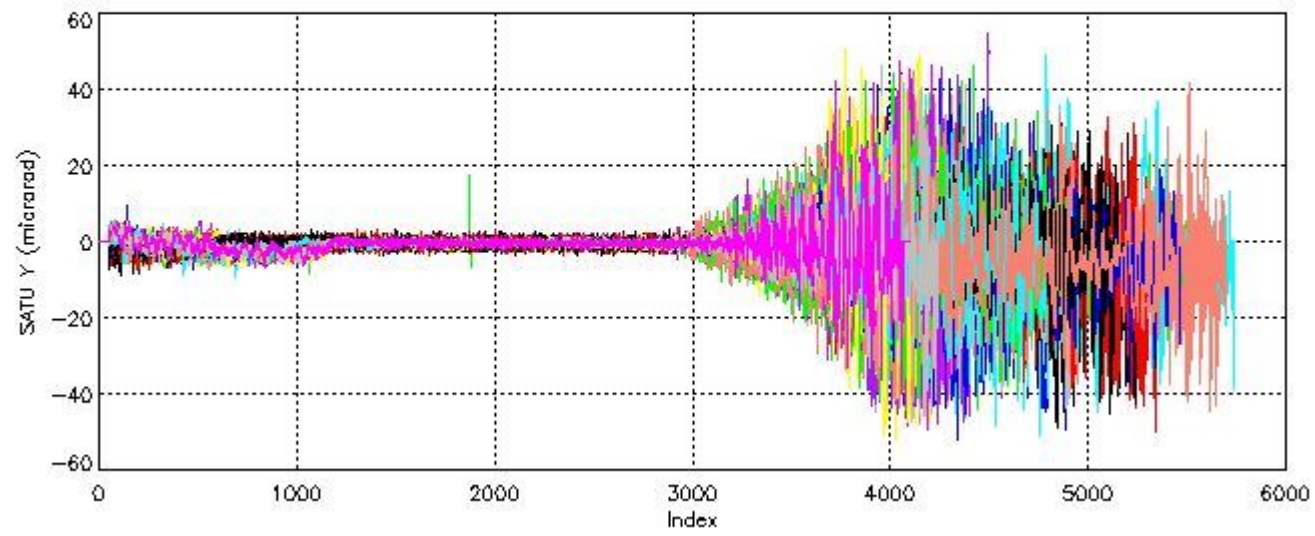
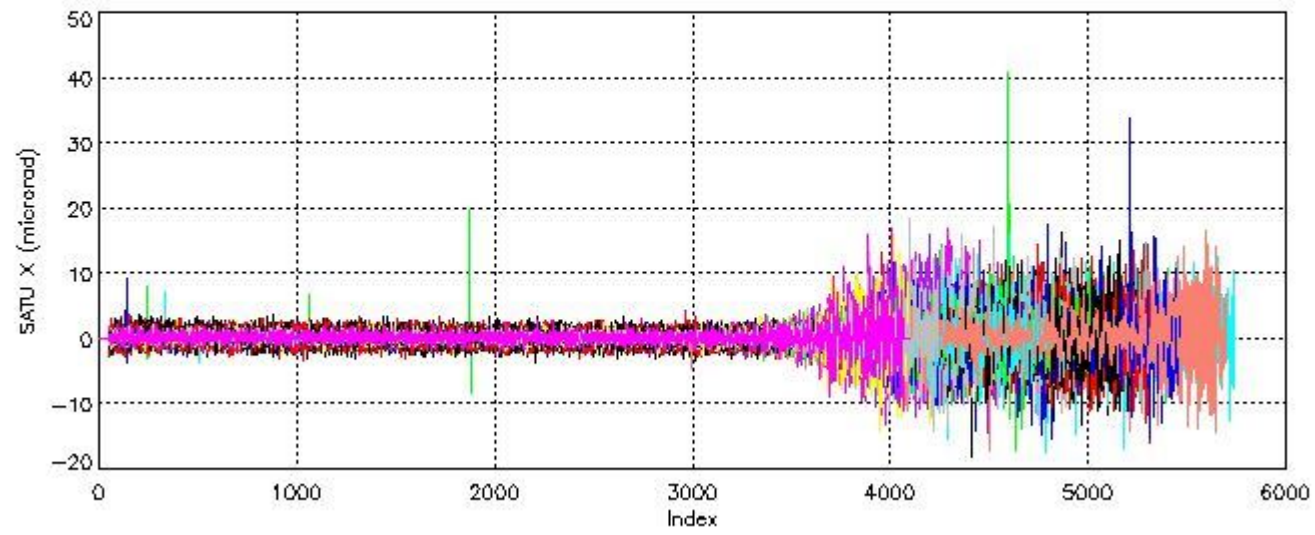


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.17840	-1.2455	0.24972	-1.4545
St. deviation:	0.50032	1.7163	0.79297	1.7605
Maximum:	9.1000	9.6000	8.3000	9.3000
Minimum:	-3.8000	-9.6000	-6.1000	-10.300

Number of data:	70950.	70950.	1.4100E+05	1.4100E+05
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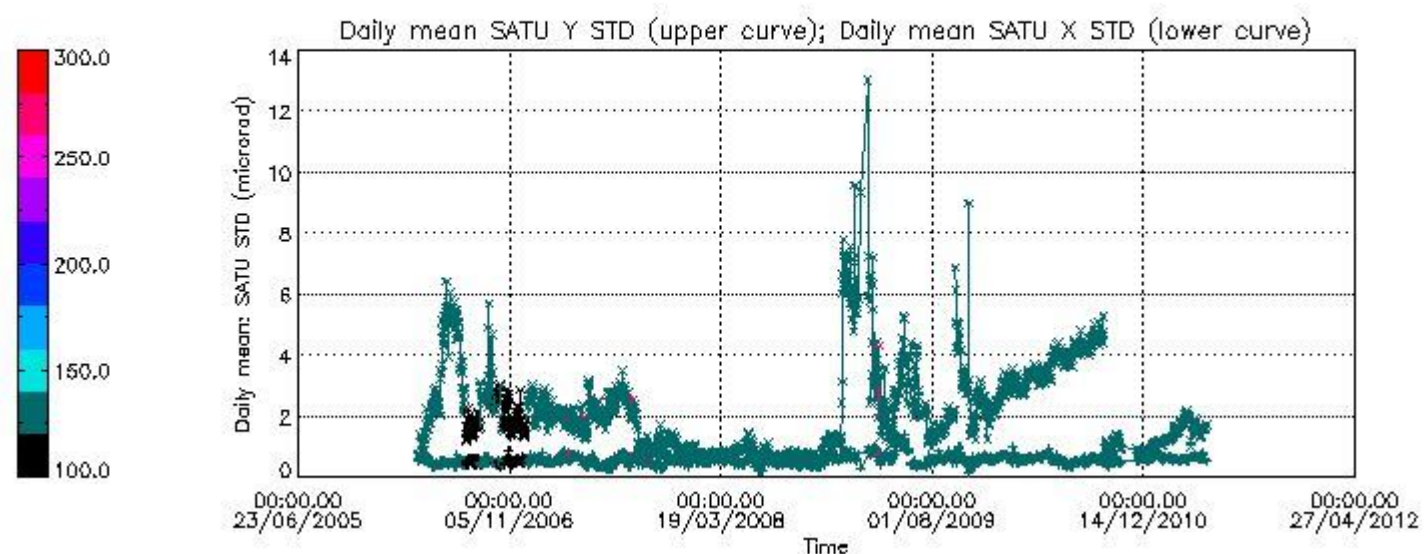
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

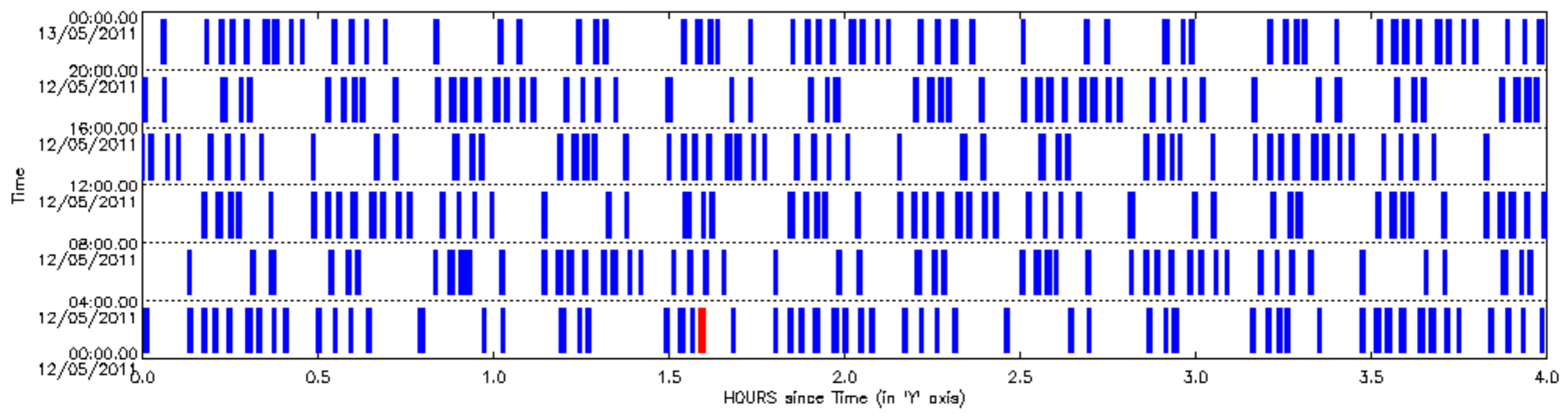


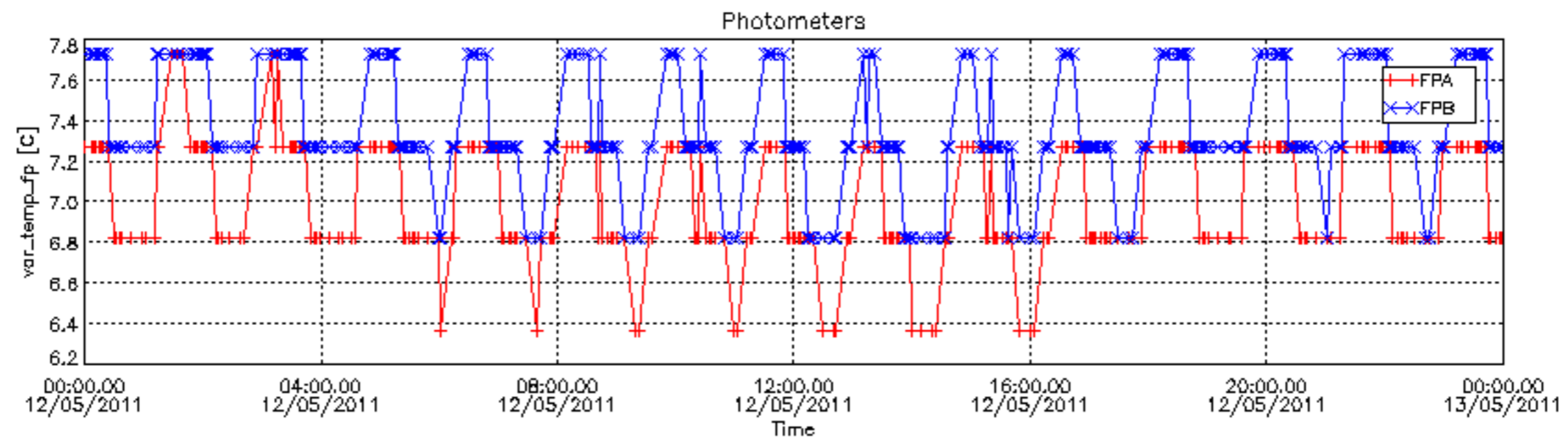
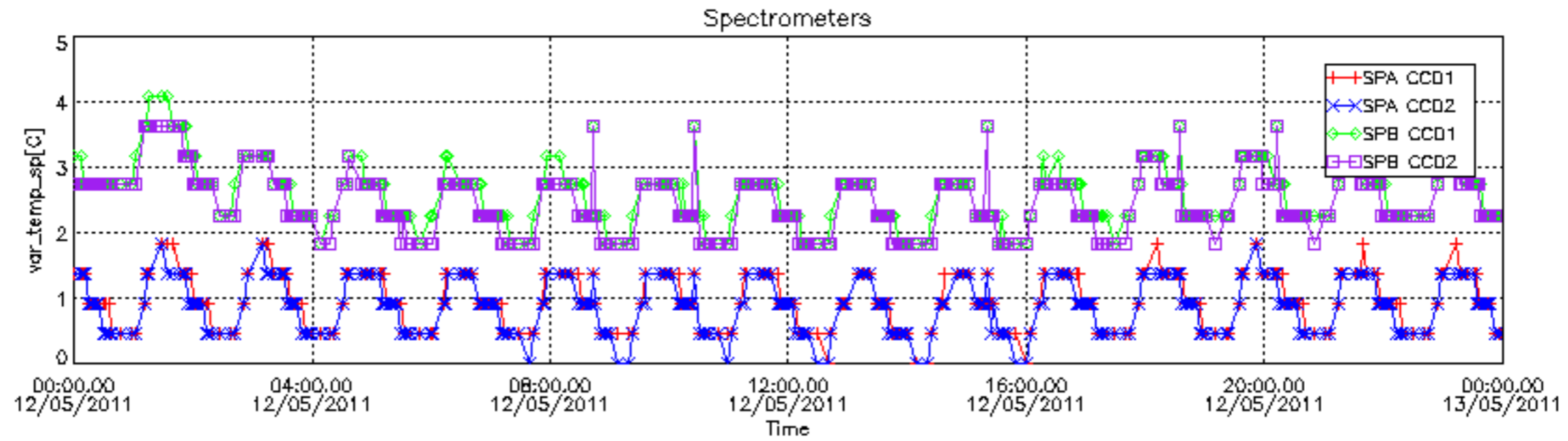
8. Auxiliary Data Files used for the production reported in section 2.4

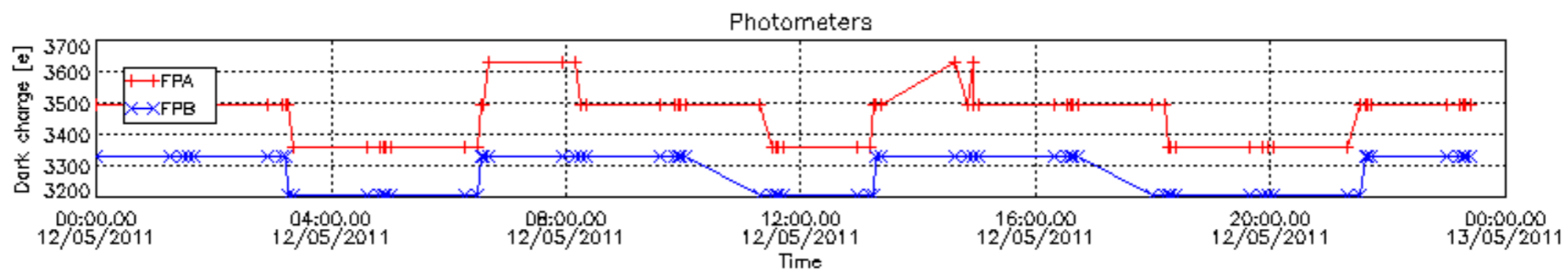
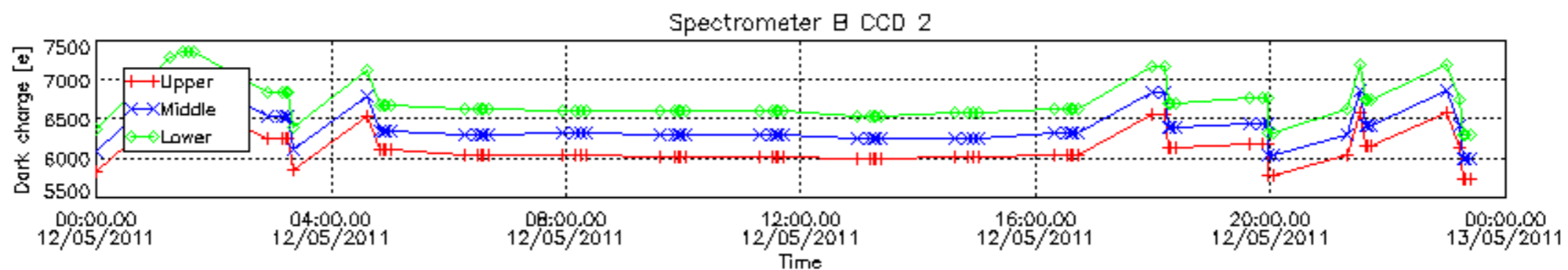
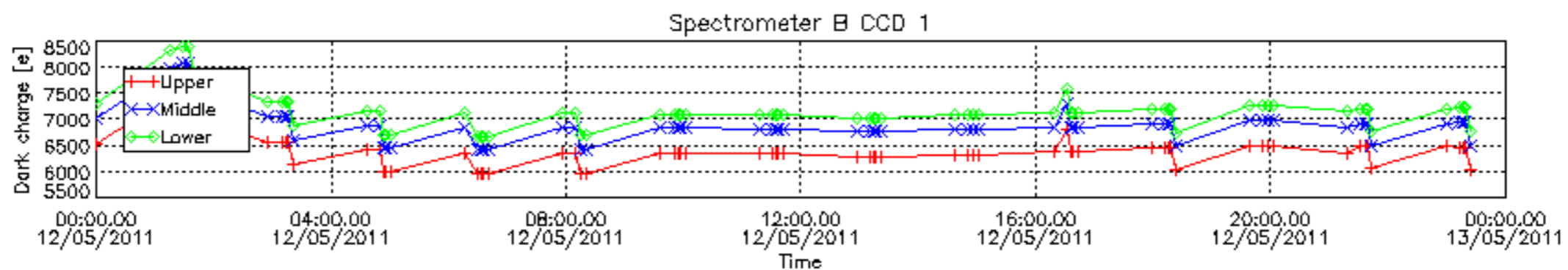
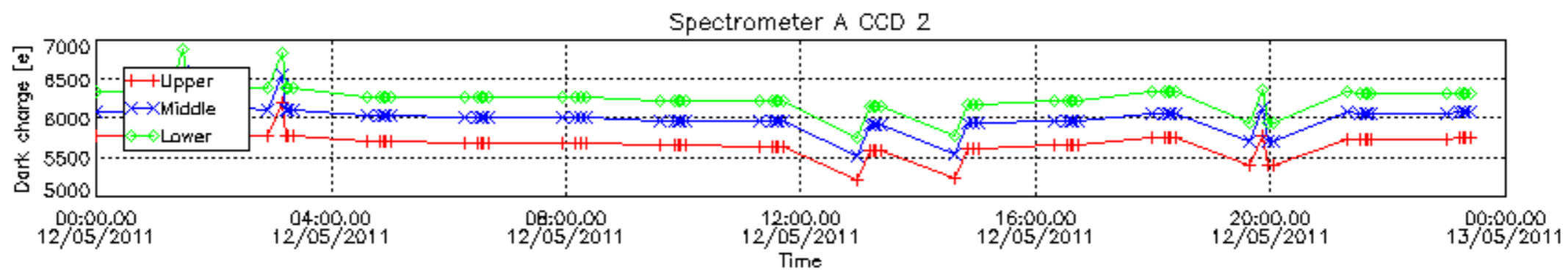
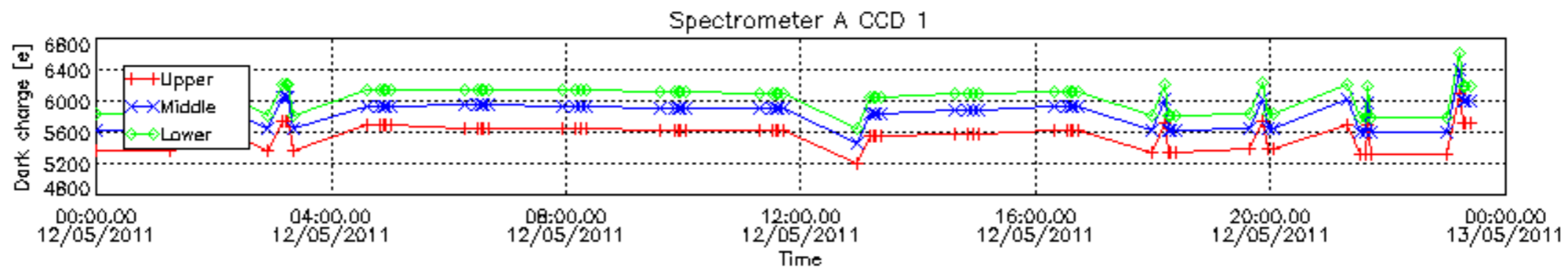
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

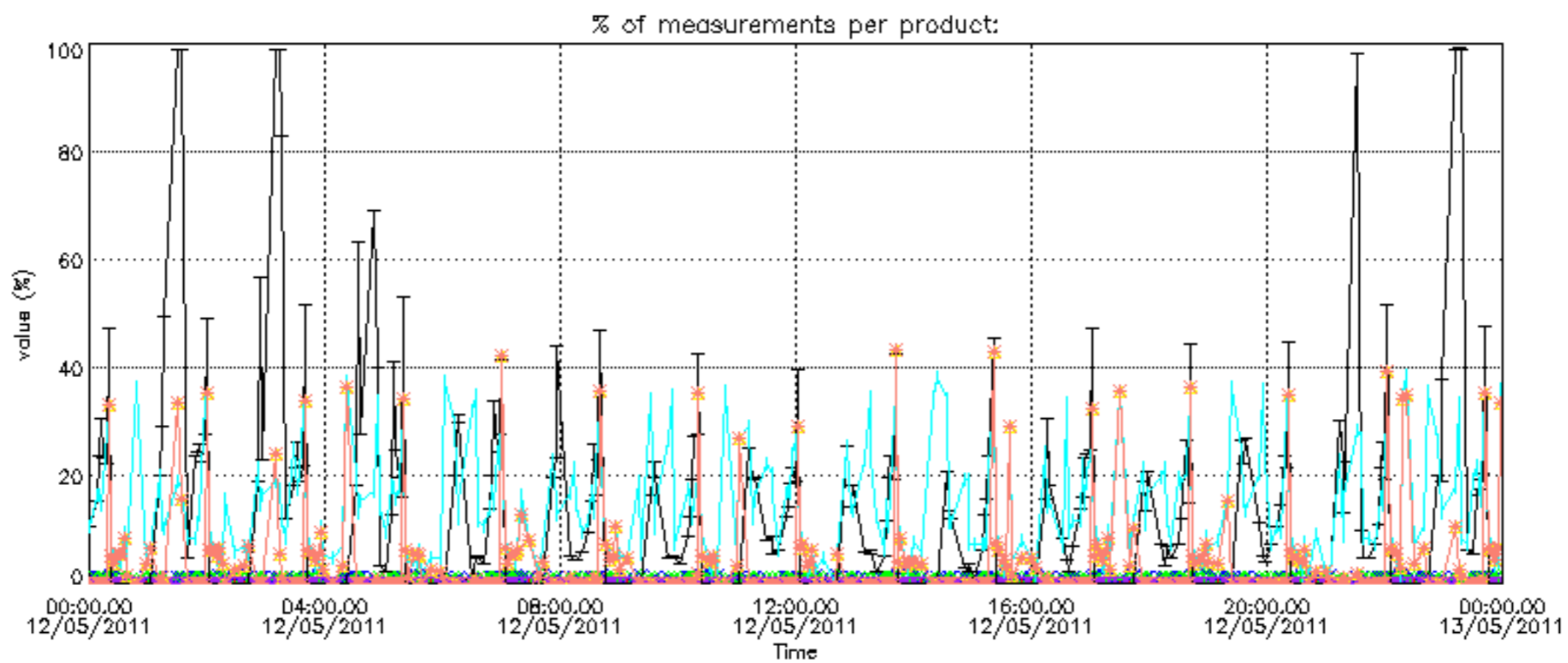
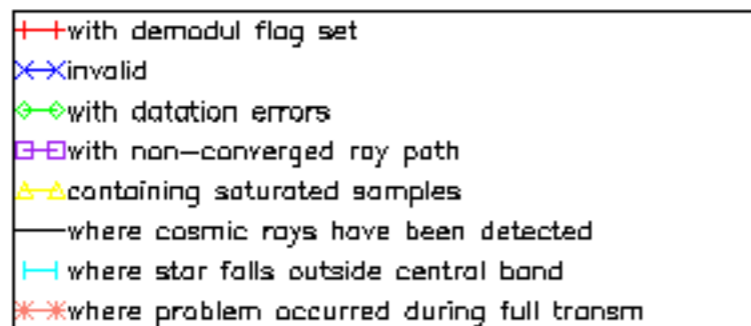
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	12-MAY-2011 00:00:16
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110505_085628_20110504_000000_20500101_000000	1	12-MAY-2011 00:00:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	12-MAY-2011 00:00:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-MAY-2011 00:00:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	12-MAY-2011 00:00:16
ECMWF_FILE	AUX_ECF_AXNECM20110511_062115_20110511_210000_20110512_090000	1	12-MAY-2011 00:00:16
ECMWF_FILE	AUX_ECF_AXNECM20110511_182116_20110512_030000_20110512_150000	58	12-MAY-2011 04:18:26
ECMWF_FILE	AUX_ECA_AXNECM20110512_062115_20110511_210000_20110512_090000	80	12-MAY-2011 05:58:39
ECMWF_FILE	AUX_ECF_AXNECM20110511_182116_20110512_030000_20110512_150000	117	12-MAY-2011 08:43:19
ECMWF_FILE	AUX_ECF_AXNECM20110512_062115_20110512_090000_20110512_210000	140	12-MAY-2011 10:25:28
ECMWF_FILE	AUX_ECF_AXNECM20110512_062116_20110512_150000_20110513_030000	203	12-MAY-2011 15:19:42
ECMWF_FILE	AUX_ECA_AXNECM20110512_183049_20110512_090000_20110512_210000	245	12-MAY-2011 18:34:33
ECMWF_FILE	AUX_ECF_AXNECM20110512_062116_20110512_150000_20110513_030000	266	12-MAY-2011 20:12:56
ECMWF_FILE	AUX_ECF_AXNECM20110512_062116_20110512_210000_20110513_090000	283	12-MAY-2011 21:32:04
OPTIONAL_ECMWF_FILE	MISSING	1	12-MAY-2011 00:00:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110511_234407_000054203102_00231_48090_6002.N1	1	12-MAY-2011 00:00:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110512_011945_000098833102_00232_48091_6003.N1	20	12-MAY-2011 01:29:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110512_040947_000060573102_00234_48093_6004.N1	58	12-MAY-2011 04:18:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110512_055602_000057383102_00235_48094_6005.N1	80	12-MAY-2011 05:58:39
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ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110512_120239_000054193102_00239_48098_4561.N1	162	12-MAY-2011 12:05:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110512_133817_000057383102_00240_48099_4562.N1	183	12-MAY-2011 13:44:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110512_151914_000054193102_00241_48100_4563.N1	203	12-MAY-2011 15:19:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110512_165453_000057383102_00242_48101_4564.N1	225	12-MAY-2011 16:59:57
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110512_201128_000041443102_00244_48103_6006.N1	266	12-MAY-2011 20:12:56
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110512_101654_20110511_185448_20110521_210836	283	12-MAY-2011 21:32:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110512_230648_000057383102_00245_48104_6008.N1	305	12-MAY-2011 23:12:18

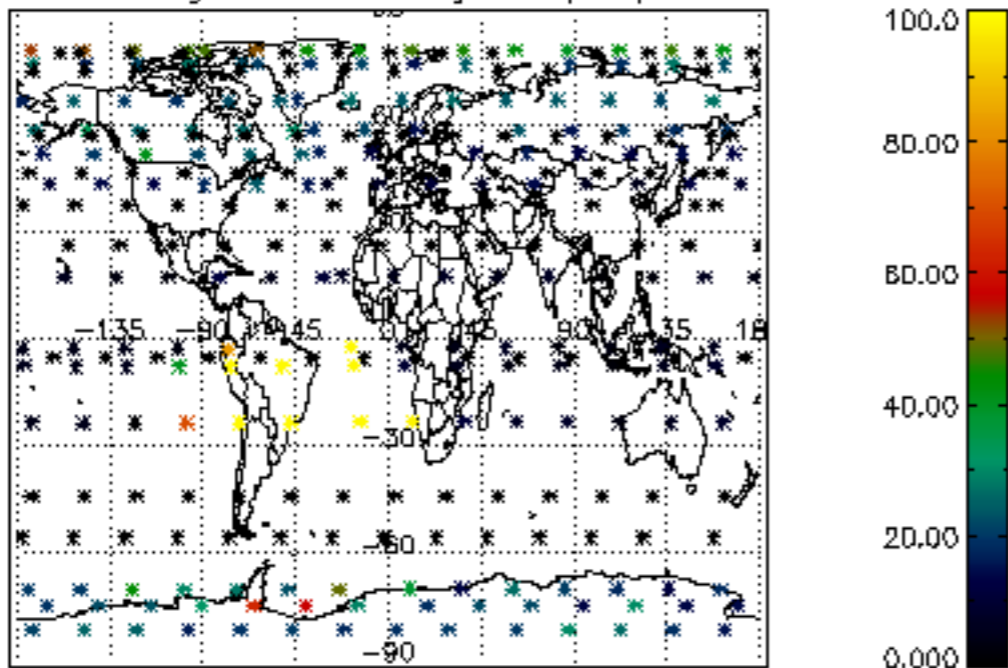




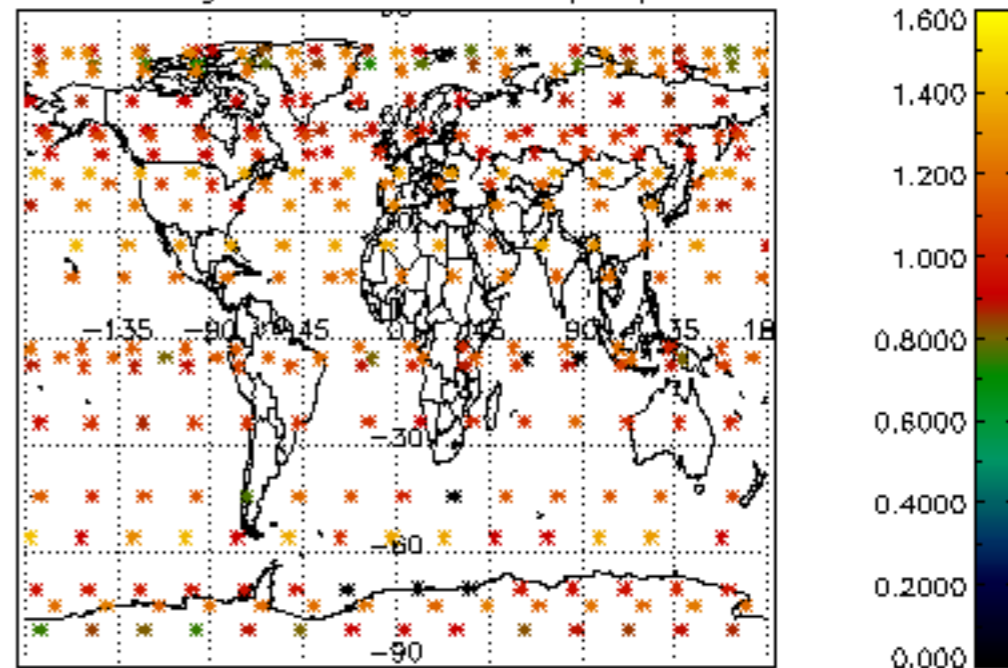




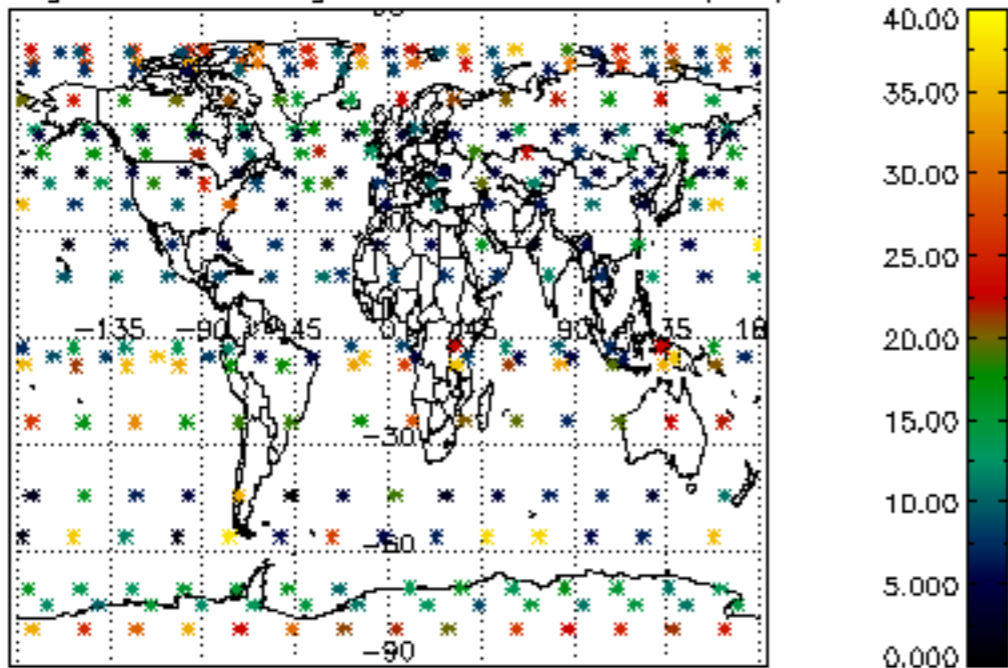
Percentage of cosmic ray hits per profile



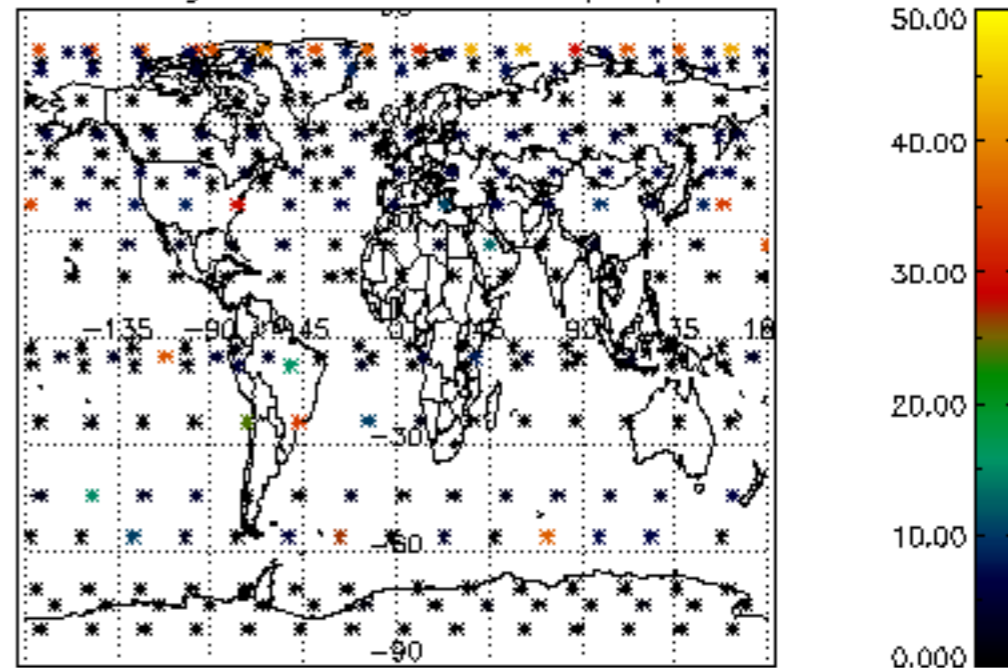
Percentage of datation errors per profile



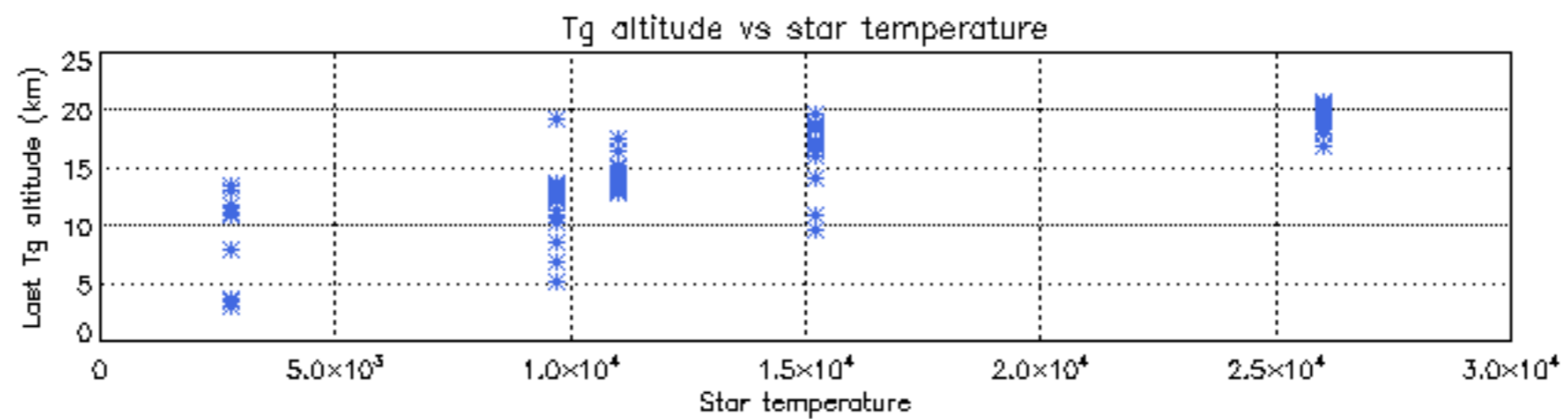
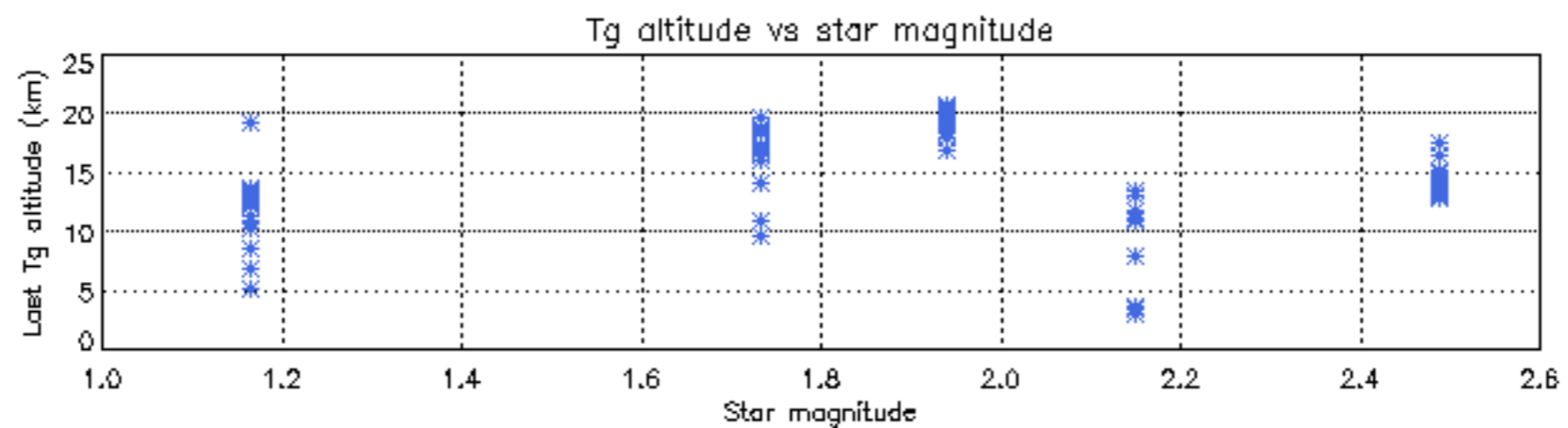
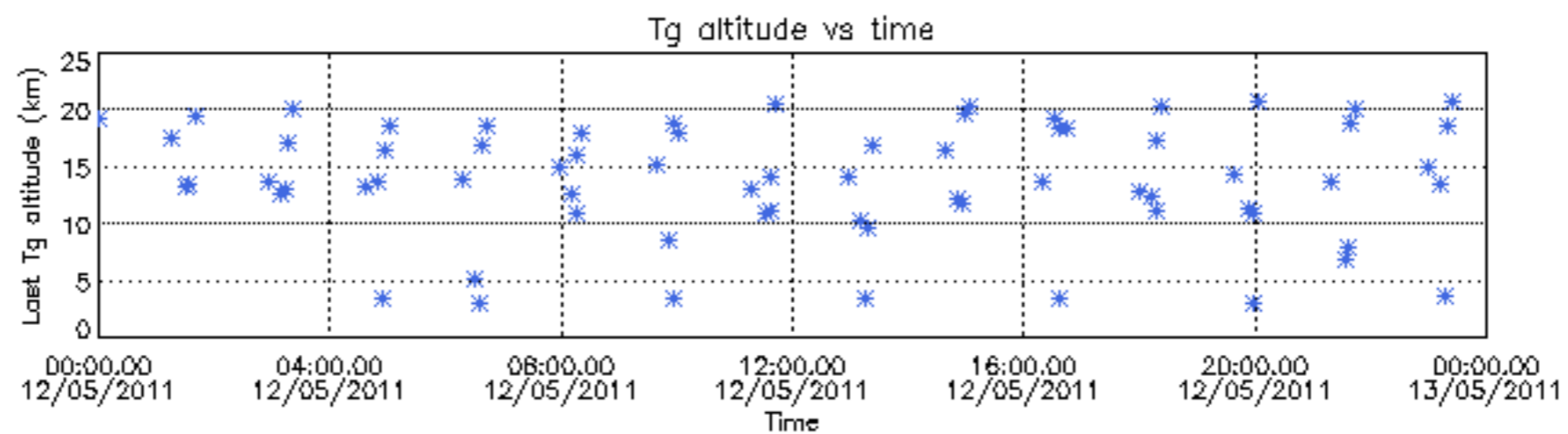
Percentage of star falling outside central band per profile



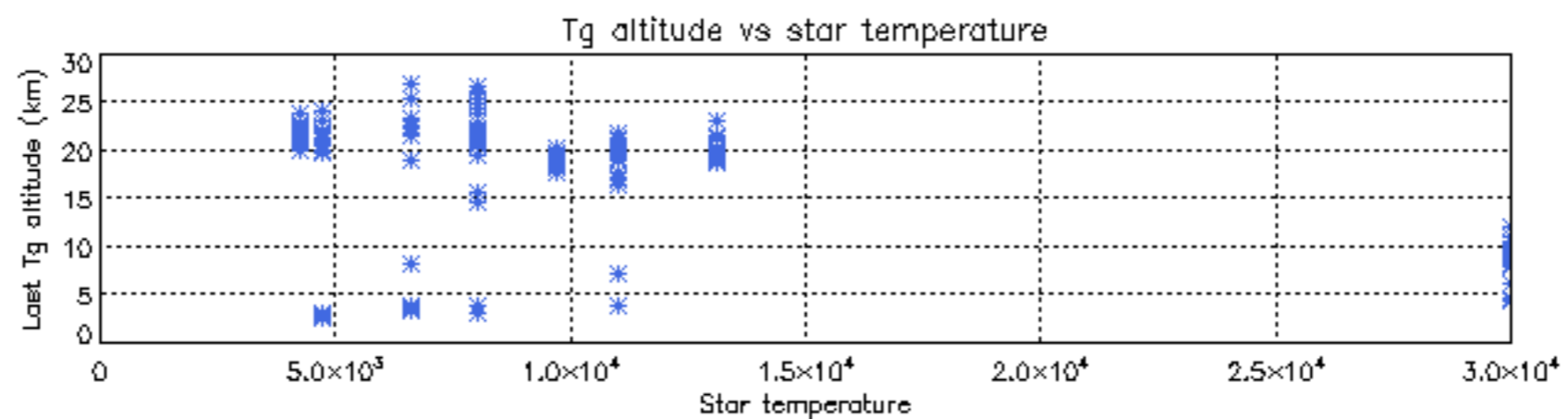
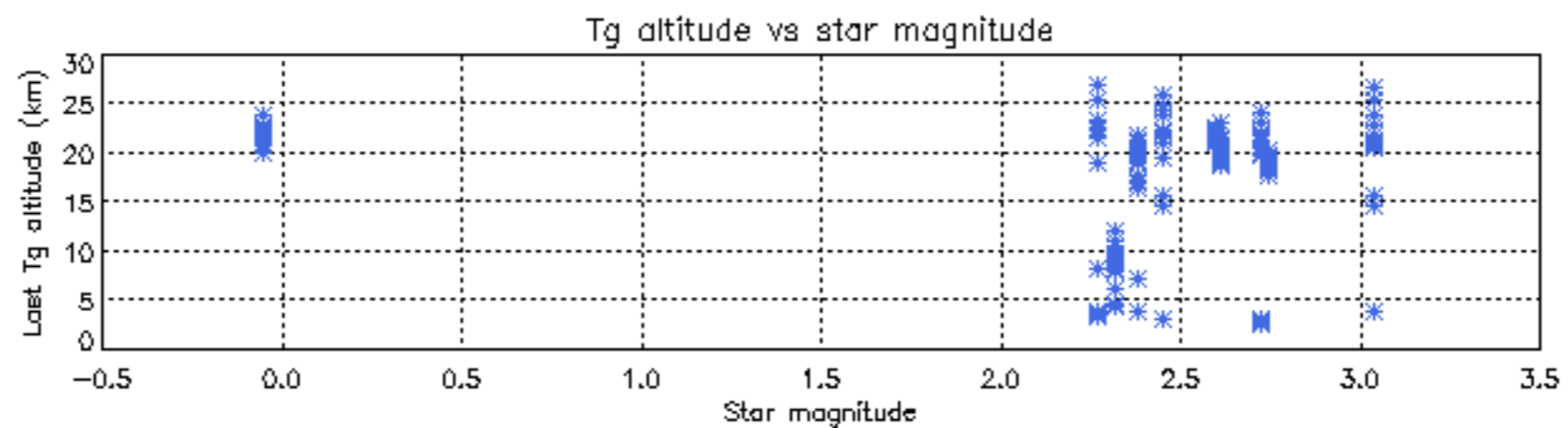
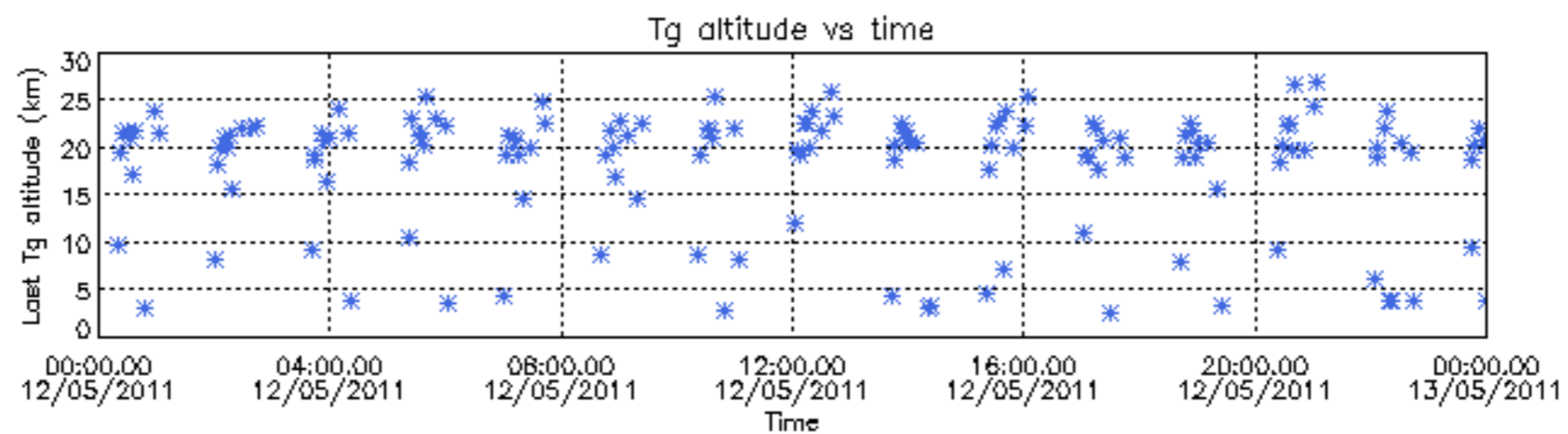
Percentage of saturation errors per profile



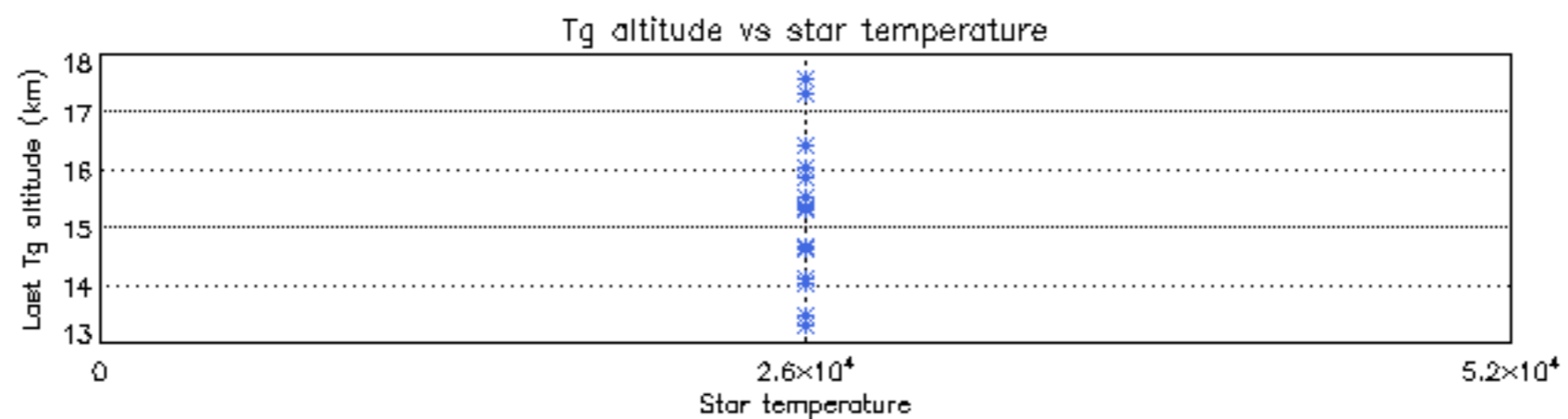
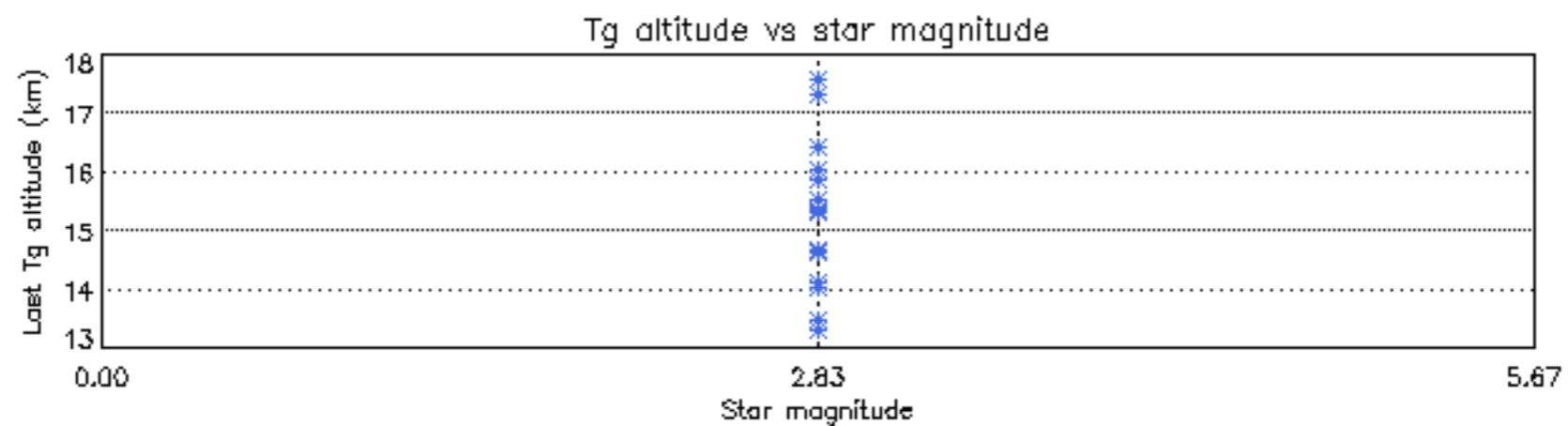
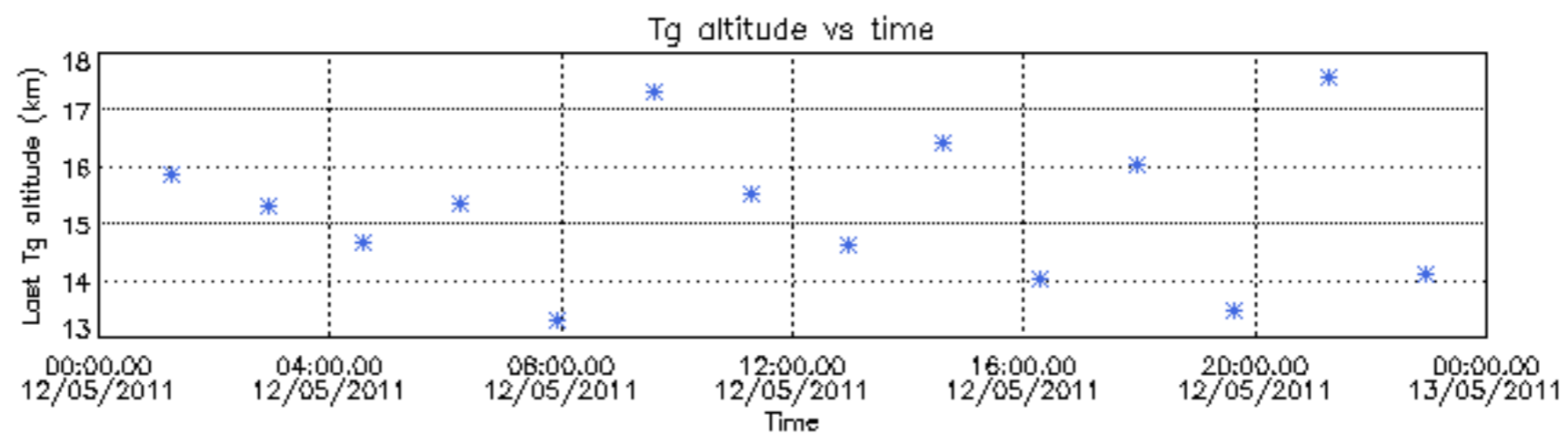
Tangent altitude at which the star is lost

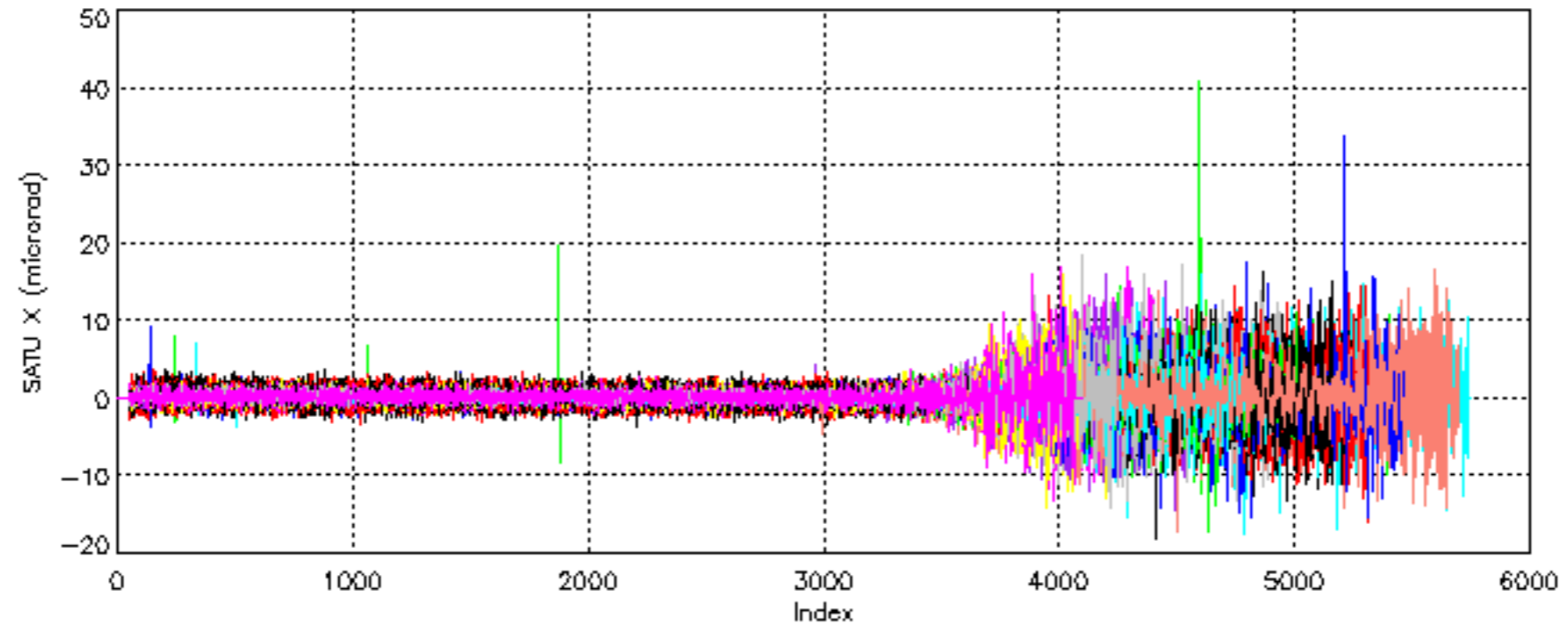


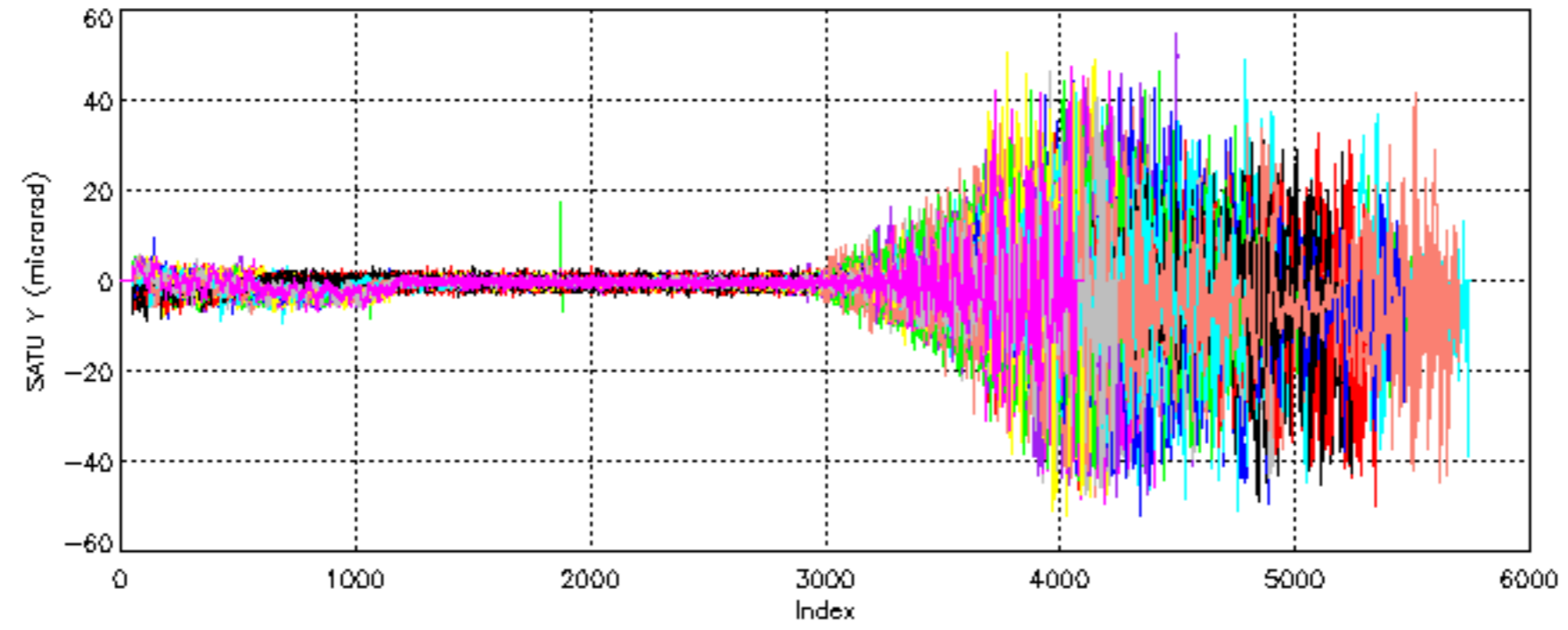
Tangent altitude at which the star is lost

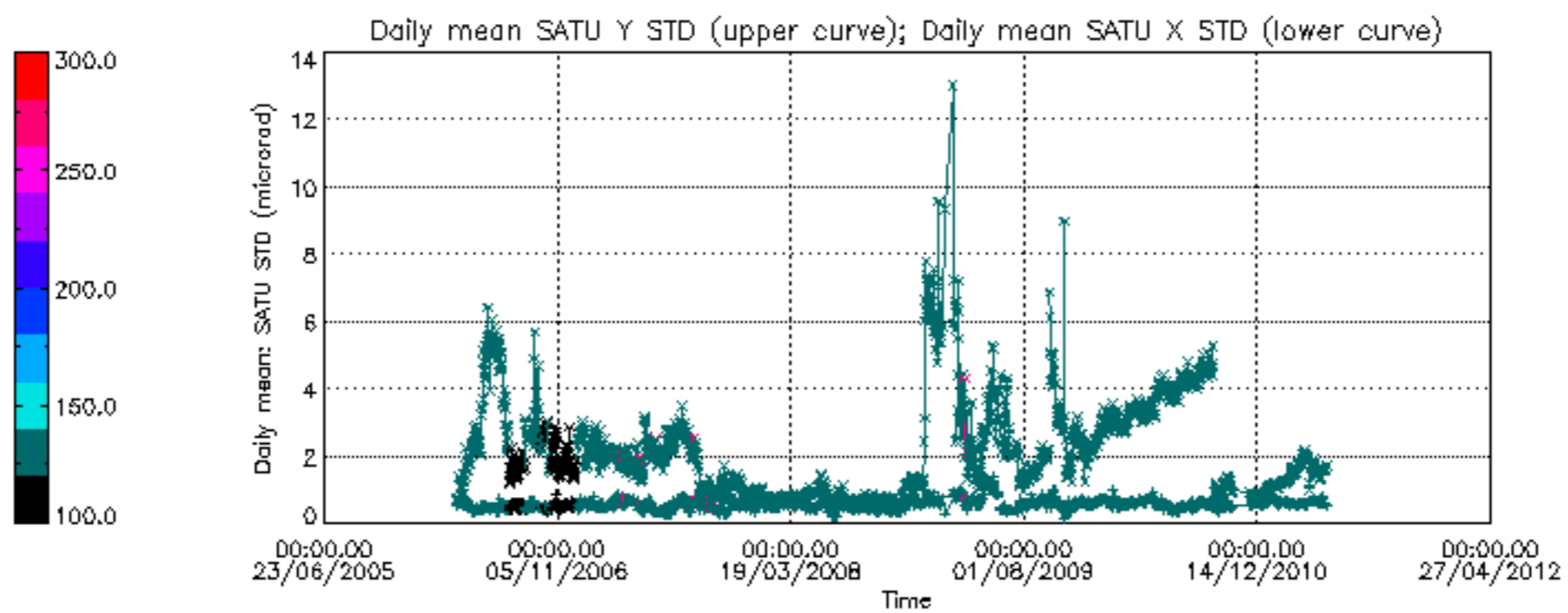


Tangent altitude at which the star is lost









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/data4_2/GOMOS/data_tmp/GOM_NL__0PNPDE20110511_002754_000051163102_00217_48076_5711.N1
 1; -259.5; 11-MAY-2011 00:27:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;48076
 2; -138.6; 11-MAY-2011 00:29:55; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;48076
 3; -57.9; 11-MAY-2011 00:31:16; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;48076
 4; 276.6; 11-MAY-2011 00:36:50; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;48077
 5; 717.5; 11-MAY-2011 00:44:11; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;48077
 6; 860.3; 11-MAY-2011 00:46:34; Dark ; 55.0; 40; The Sco ; 1.86; 7100;occ; 110; 0;48077
 7; 970.8; 11-MAY-2011 00:48:24; Dark ; 57.5; 25; 35Lam Sco ; 1.62; 28000;occ; 115; 0;48077
 8; 1123.8; 11-MAY-2011 00:50:57; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;48077
 9; 1318.6; 11-MAY-2011 00:54:12; Dark ; 64.0; 16; 21Alp Sco ; 1.02; 3000;occ; 128; 0;48077
10; 1429.3; 11-MAY-2011 00:56:03; Dark ; 56.0; 80; 7Del Sco ; 2.32; 30000;occ; 112; 0;48077
11; 1597.0; 11-MAY-2011 00:58:51; Bright; 39.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 79; 0;48077
12; 1713.5; 11-MAY-2011 01:00:47; Bright; 40.5; 104; 27Bet Lib ; 2.61; 13100;occ; 81; 0;48077
13; 2053.5; 11-MAY-2011 01:06:27; Bright; 48.5; 102; 24Alp Ser ; 2.60; 4250;occ; 97; 0;48077
14; 2224.0; 11-MAY-2011 01:09:18; Bright; 38.0; 3; 16Alp Boo ;-0.05; 4250;occ; 76; 0;48077
15; 2382.3; 11-MAY-2011 01:11:56; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;48077
16; 2568.3; 11-MAY-2011 01:15:02; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;48077
17; 3105.1; 11-MAY-2011 01:23:59; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;48077
18; 3754.5; 11-MAY-2011 01:34:48; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;48077
19; 3944.7; 11-MAY-2011 01:37:58; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;48077
20; 4542.4; 11-MAY-2011 01:47:56; Dark ; 59.0; 93; 53Bet Peg ; 2.52; 3100;occ; 118; 0;48077
21; 4723.8; 11-MAY-2011 01:50:57; Dark ; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;48077
22; 4807.3; 11-MAY-2011 01:52:21; Dark ; 50.0; 90; 54Alp Peg ; 2.49; 11000;occ; 100; 0;48077
/data4_2/GOMOS/data_tmp/GOM_NL__0PNPDE20110511_020540_000035533102_00218_48077_5712.N1
 1; -407.2; 11-MAY-2011 02:05:40; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;48077
 2; -258.7; 11-MAY-2011 02:08:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;48077
 3; -137.7; 11-MAY-2011 02:10:10; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;48077
 4; -57.2; 11-MAY-2011 02:11:30; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;48077
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