

GOMOS Daily Report 31-MAY-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	03JUN2009 17:38:26
Data source version	GOMOS/5.00
Start time of products	31MAY2009 00:01:14
Stop time of products	31MAY2009 23:53:30
Store outputs in DB	Yes
Nb of level 1b prods	91
Nb of prods with errors	1

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

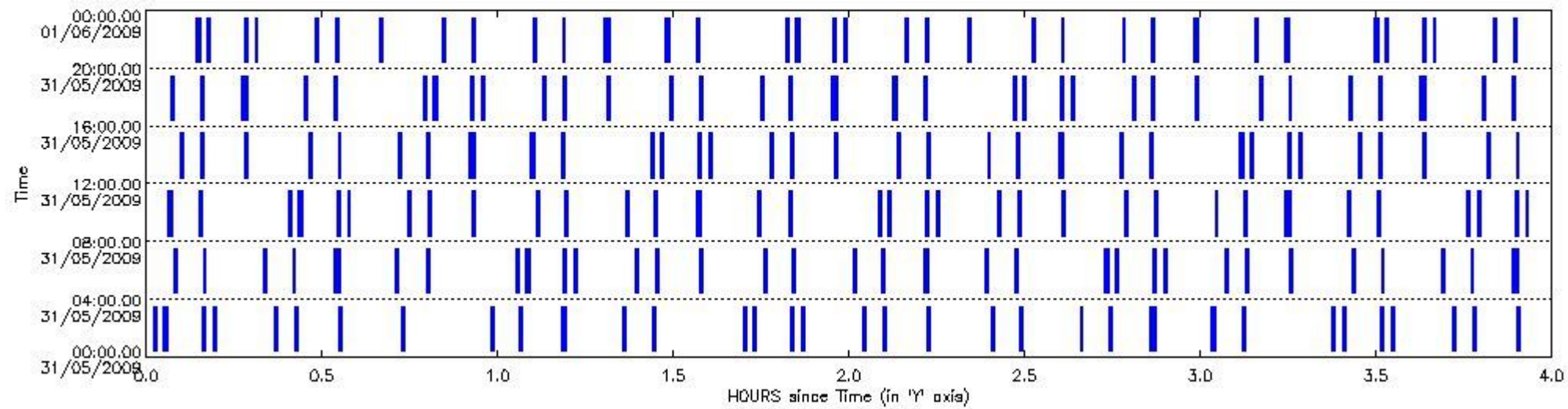
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

No missing products.

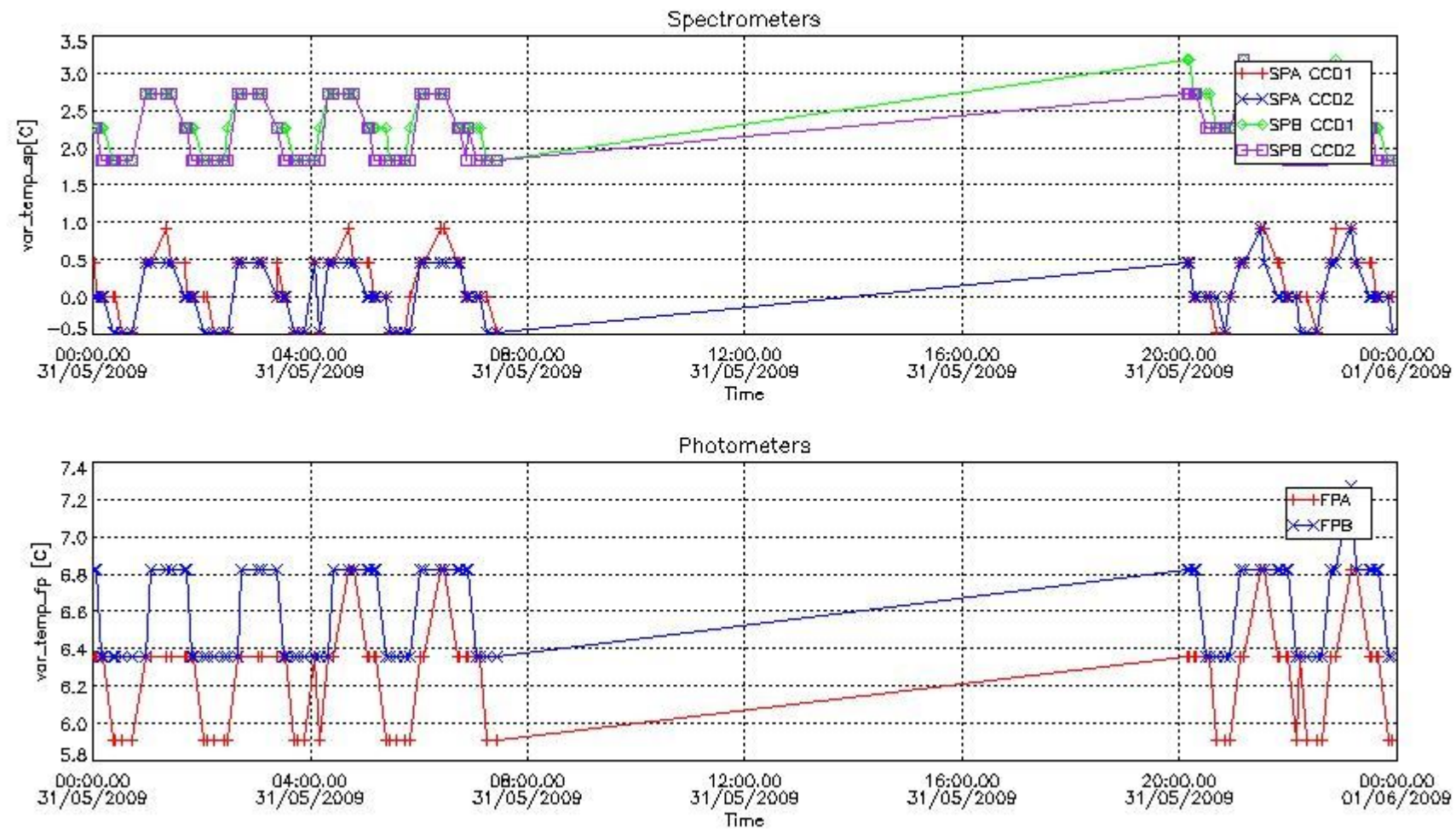
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090531_000114_000000372079_00274_37903_8159.N1	31-MAY-2009 00:01:14	Twilight	36.500	38	20Eps Sgr	1.8360	11000.	73	37903	No
2	GOM_TRA_1PNPDE20090531_000257_000000392079_00274_37903_8160.N1	31-MAY-2009 00:02:57	Twilight	38.500	116	19Del Sgr	2.7000	4100.0	77	37903	No
3	GOM_TRA_1PNPDE20090531_000927_000000342079_00274_37903_8161.N1	31-MAY-2009 00:09:27	Bright	33.500	86	35Eta Oph	2.4300	10200.	67	37903	No
4	GOM_TRA_1PNPDE20090531_001119_000000312079_00274_37903_8162.N1	31-MAY-2009 00:11:19	Bright	31.000	98	13Zet Oph	2.5710	30000.	62	37903	No
5	GOM_TRA_1PNPDE20090531_002145_000000342079_00274_37903_8163.N1	31-MAY-2009 00:21:45	Bright	33.500	127	27Bet Her	2.7810	4700.0	67	37903	No
6	GOM_TRA_1PNPDE20090531_002513_000000342079_00274_37903_8164.N1	31-MAY-2009 00:25:13	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	37903	No
7	GOM_TRA_1PNPDE20090531_003244_000000352079_00274_37903_8165.N1	31-MAY-2009 00:32:44	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	37903	No
8	GOM_TRA_1PNPDE20090531_004335_000000322079_00274_37903_8166.N1	31-MAY-2009 00:43:35	Twilight	32.000	89	5Alp Cep	2.4510	8000.0	64	37903	No
9	GOM_TRA_1PNPDE20090531_005851_000000292079_00274_37903_8167.N1	31-MAY-2009 00:58:51	Twilight	28.500	58	21Alp And	2.0730	11000.	57	37903	No
10	GOM_TRA_1PNPDE20090531_010343_000000302079_00274_37903_8168.N1	31-MAY-2009 01:03:43	Dark	29.500	140	88Gam Peg	2.8340	26000.	59	37903	No
11	GOM_TRA_1PNPDE20090531_012115_000000402079_00274_37903_8291.N1	31-MAY-2009 01:21:15	Dark	39.500	18	24Alp PsA	1.1660	9700.0	79	37903	No
12	GOM_TRA_1PNPDE20090531_012631_000000352079_00275_37904_8292.N1	31-MAY-2009 01:26:31	Dark	34.500	31	Alp Gru	1.7340	15200.	69	37904	No

13	GOM_TRA_1PNPDE20090531_014151_000000372079_00275_37904_8293.N1	31-MAY-2009 01:41:51	Tw_i_and_stray	36.500	38	20Eps Sgr	1.8360	11000.	73	37904	No
14	GOM_TRA_1PNPDE20090531_014334_000000382079_00275_37904_8294.N1	31-MAY-2009 01:43:34	Tw_i_and_stray	38.000	116	19Del Sgr	2.7000	4100.0	76	37904	No
15	GOM_TRA_1PNPDE20090531_015003_000000342079_00275_37904_8295.N1	31-MAY-2009 01:50:03	Bright	33.500	86	35Eta Oph	2.4300	10200.	67	37904	No
16	GOM_TRA_1PNPDE20090531_015155_000000312079_00275_37904_8296.N1	31-MAY-2009 01:51:55	Bright	31.000	98	13Zet Oph	2.5710	30000.	62	37904	No
17	GOM_TRA_1PNPDE20090531_020221_000000332079_00275_37904_8297.N1	31-MAY-2009 02:02:21	Bright	33.000	127	27Bet Her	2.7810	4700.0	66	37904	No
18	GOM_TRA_1PNPDE20090531_020549_000000342079_00275_37904_8298.N1	31-MAY-2009 02:05:49	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	37904	No
19	GOM_TRA_1PNPDE20090531_021319_000000352079_00275_37904_8299.N1	31-MAY-2009 02:13:19	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	37904	No
20	GOM_TRA_1PNPDE20090531_022410_000000322079_00275_37904_8300.N1	31-MAY-2009 02:24:10	Tw_i_and_stray	31.500	89	5Alp Cep	2.4510	8000.0	63	37904	No
21	GOM_TRA_1PNPDE20090531_022909_000000262079_00275_37904_8535.N1	31-MAY-2009 02:29:09	Tw_i_and_stray	25.500	74	11Bet Cas	2.2680	6600.0	51	37904	No
22	GOM_TRA_1PNPDE20090531_023927_000000282079_00275_37904_8536.N1	31-MAY-2009 02:39:27	Tw_i_and_stray	28.000	58	21Alp And	2.0730	11000.	56	37904	No
23	GOM_TRA_1PNPDE20090531_024420_000000302079_00275_37904_8537.N1	31-MAY-2009 02:44:20	Dark	29.500	140	88Gam Peg	2.8340	26000.	59	37904	No
24	GOM_TRA_1PNPDE20090531_030152_000000392079_00275_37904_8538.N1	31-MAY-2009 03:01:52	Dark	39.000	18	24Alp PsA	1.1660	9700.0	78	37904	No
25	GOM_TRA_1PNPDE20090531_030708_000000352079_00276_37905_8539.N1	31-MAY-2009 03:07:08	Dark	34.500	31	Alp Gru	1.7340	15200.	69	37905	No
26	GOM_TRA_1PNPDE20090531_032228_000000362079_00276_37905_8540.N1	31-MAY-2009 03:22:28	Tw_i_and_stray	36.000	38	20Eps Sgr	1.8360	11000.	72	37905	No
27	GOM_TRA_1PNPDE20090531_032410_000000382079_00276_37905_8541.N1	31-MAY-2009 03:24:10	Tw_i_and_stray	37.500	116	19Del Sgr	2.7000	4100.0	75	37905	No
28	GOM_TRA_1PNPDE20090531_033039_000000332079_00276_37905_8542.N1	31-MAY-2009 03:30:39	Bright	33.000	86	35Eta Oph	2.4300	10200.	66	37905	No
29	GOM_TRA_1PNPDE20090531_033232_000000312079_00276_37905_8543.N1	31-MAY-2009 03:32:32	Bright	30.500	98	13Zet Oph	2.5710	30000.	61	37905	No
30	GOM_TRA_1PNPDE20090531_034257_000000332079_00276_37905_8544.N1	31-MAY-2009 03:42:57	Bright	33.000	127	27Bet Her	2.7810	4700.0	66	37905	No
31	GOM_TRA_1PNPDE20090531_034624_000000352079_00276_37905_8545.N1	31-MAY-2009 03:46:24	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	37905	No
32	GOM_TRA_1PNPDE20090531_035354_000000342079_00276_37905_8546.N1	31-MAY-2009 03:53:54	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	37905	No
33	GOM_TRA_1PNPDE20090531_040445_000000322079_00276_37905_8677.N1	31-MAY-2009 04:04:45	Tw_i_and_stray	31.500	89	5Alp Cep	2.4510	8000.0	63	37905	Yes
34	GOM_TRA_1PNPDE20090531_040945_000000262079_00276_37905_8678.N1	31-MAY-2009 04:09:45	Tw_i_and_stray	25.500	74	11Bet Cas	2.2680	6600.0	51	37905	No
35	GOM_TRA_1PNPDE20090531_042003_000000282079_00276_37905_8679.N1	31-MAY-2009 04:20:03	Tw_i_and_stray	28.000	58	21Alp And	2.0730	11000.	56	37905	No
36	GOM_TRA_1PNPDE20090531_042456_000000302079_00276_37905_8680.N1	31-MAY-2009 04:24:56	Dark	29.500	140	88Gam Peg	2.8340	26000.	59	37905	No
37	GOM_TRA_1PNPDE20090531_044229_000000392079_00276_37905_8681.N1	31-MAY-2009 04:42:29	Dark	39.000	18	24Alp PsA	1.1660	9700.0	78	37905	No
38	GOM_TRA_1PNPDE20090531_044745_000000342079_00277_37906_8682.N1	31-MAY-2009 04:47:45	Dark	34.000	31	Alp Gru	1.7340	15200.	68	37906	No
39	GOM_TRA_1PNPDE20090531_050304_000000362079_00277_37906_8683.N1	31-MAY-2009 05:03:04	Tw_i_and_stray	36.000	38	20Eps Sgr	1.8360	11000.	72	37906	No
40	GOM_TRA_1PNPDE20090531_050446_000000382079_00277_37906_8684.N1	31-MAY-2009 05:04:46	Tw_i_and_stray	38.000	116	19Del Sgr	2.7000	4100.0	76	37906	No
41	GOM_TRA_1PNPDE20090531_051115_000000332079_00277_37906_8685.N1	31-MAY-2009 05:11:15	Bright	33.000	86	35Eta Oph	2.4300	10200.	66	37906	No
42	GOM_TRA_1PNPDE20090531_051307_000000312079_00277_37906_8686.N1	31-MAY-2009 05:13:07	Bright	30.500	98	13Zet Oph	2.5710	30000.	61	37906	No
43	GOM_TRA_1PNPDE20090531_052332_000000332079_00277_37906_8687.N1	31-MAY-2009 05:23:32	Bright	33.000	127	27Bet Her	2.7810	4700.0	66	37906	No
44	GOM_TRA_1PNPDE20090531_052700_000000342079_00277_37906_8688.N1	31-MAY-2009 05:27:00	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	37906	No
45	GOM_TRA_1PNPDE20090531_053429_000000352079_00277_37906_8689.N1	31-MAY-2009 05:34:29	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	37906	No
46	GOM_TRA_1PNPDE20090531_054521_000000322079_00277_37906_9024.N1	31-MAY-2009 05:45:21	Tw_i_and_stray	31.500	89	5Alp Cep	2.4510	8000.0	63	37906	No
47	GOM_TRA_1PNPDE20090531_055021_000000262079_00277_37906_9025.N1	31-MAY-2009 05:50:21	Tw_i_and_stray	25.500	74	11Bet Cas	2.2680	6600.0	51	37906	No
48	GOM_TRA_1PNPDE20090531_060039_000000292079_00277_37906_9026.N1	31-MAY-2009 06:00:39	Tw_i_and_stray	28.500	58	21Alp And	2.0730	11000.	57	37906	No
49	GOM_TRA_1PNPDE20090531_060533_000000302079_00277_37906_9027.N1	31-MAY-2009 06:05:33	Dark	29.500	140	88Gam Peg	2.8340	26000.	59	37906	No
50	GOM_TRA_1PNPDE20090531_062306_000000402079_00277_37906_9028.N1	31-MAY-2009 06:23:06	Dark	39.500	18	24Alp PsA	1.1660	9700.0	79	37906	No
51	GOM_TRA_1PNPDE20090531_062821_000000352079_00278_37907_9029.N1	31-MAY-2009 06:28:21	Dark	34.500	31	Alp Gru	1.7340	15200.	69	37907	No
52	GOM_TRA_1PNPDE20090531_064341_000000362079_00278_37907_9030.N1	31-MAY-2009 06:43:41	Tw_i_and_stray	36.000	38	20Eps Sgr	1.8360	11000.	72	37907	No
53	GOM_TRA_1PNPDE20090531_064523_000000382079_00278_37907_9031.N1	31-MAY-2009 06:45:23	Tw_i_and_stray	37.500	116	19Del Sgr	2.7000	4100.0	75	37907	No
54	GOM_TRA_1PNPDE20090531_065151_000000332079_00278_37907_9032.N1	31-MAY-2009 06:51:51	Bright	33.000	86	35Eta Oph	2.4300	10200.	66	37907	No
55	GOM_TRA_1PNPDE20090531_065344_000000302079_00278_37907_9033.N1	31-MAY-2009 06:53:44	Bright	30.000	98	13Zet Oph	2.5710	30000.	60	37907	No
56	GOM_TRA_1PNPDE20090531_070408_000000332079_00278_37907_9034.N1	31-MAY-2009 07:04:08	Bright	33.000	127	27Bet Her	2.7810	4700.0	66	37907	No
57	GOM_TRA_1PNPDE20090531_070735_000000342079_00278_37907_9035.N1	31-MAY-2009 07:07:35	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	37907	No
58	GOM_TRA_1PNPDE20090531_071505_000000342079_00278_37907_9036.N1	31-MAY-2009 07:15:05	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	37907	No
59	GOM_TRA_1PNPDE20090531_072556_000000312079_00278_37907_9037.N1	31-MAY-2009 07:25:56	Tw_i_and_stray	31.000	89	5Alp Cep	2.4510	8000.0	62	37907	No
60	GOM_TRA_1PNPDE20090531_200833_000000362079_00286_37915_9408.N1	31-MAY-2009 20:08:33	Tw_i_and_stray	35.500	38	20Eps Sgr	1.8360	11000.	71	37915	No
61	GOM_TRA_1PNPDE20090531_201015_000000372079_00286_37915_9409.N1	31-MAY-2009 20:10:15	Tw_i_and_stray	37.000	116	19Del Sgr	2.7000	4100.0	74	37915	No
62	GOM_TRA_1PNPDE20090531_201640_000000322079_00286_37915_9410.N1	31-MAY-2009 20:16:40	Bright	32.000	86	35Eta Oph	2.4300	10200.	64	37915	No
63	GOM_TRA_1PNPDE20090531_201831_000000302079_00286_37915_9411.N1	31-MAY-2009 20:18:31	Bright	30.000	98	13Zet Oph	2.5710	30000.	60	37915	No
64	GOM_TRA_1PNPDE20090531_202852_000000322079_00286_37915_9412.N1	31-MAY-2009 20:28:52	Bright	32.000	127	27Bet Her	2.7810	4700.0	64	37915	No
65	GOM_TRA_1PNPDE20090531_203219_000000332079_00286_37915_9413.N1	31-MAY-2009 20:32:19	Bright	33.000	133	40Zet Her	2.8070	6000.0	66	37915	No
66	GOM_TRA_1PNPDE20090531_203947_000000342079_00286_37915_9414.N1	31-MAY-2009 20:39:47	Bright	33.500	130	23Bet Dra	2.7990	5800.0	67	37915	No
67	GOM_TRA_1PNPDE20090531_205039_000000322079_00286_37915_9415.N1	31-MAY-2009 20:50:39	Tw_i_and_stray	31.500	89	5Alp Cep	2.4510	8000.0	63	37915	No
68	GOM_TRA_1PNPDE20090531_205543_000000252079_00286_37915_9416.N1	31-MAY-2009 20:55:43	Tw_i_and_stray	25.000	74	11Bet Cas	2.2680	6600.0	50	37915	No
69	GOM_TRA_1PNPDE20090531_210604_000000282079_00286_37915_9417.N1	31-MAY-2009 21:06:04	Tw_i_and_stray	27.500	58	21Alp And	2.0730	11000.	55	37915	No
70	GOM_TRA_1PNPDE20090531_211101_000000302079_00286_37915_9418.N1	31-MAY-2009 21:11:01	Dark	29.500	140	88Gam Peg	2.8340	26000.	59	37915	No
71	GOM_TRA_1PNPDE20090531_212841_000000392079_00286_37915_9541.N1	31-MAY-2009 21:28:41	Dark	39.000	18	24Alp PsA	1.1660	9700.0	78	37915	No

72	GOM_TRA_1PNPDE20090531_213353_000000342079_00287_37916_9542.N1	31-MAY-2009 21:33:53	Dark	34.000	31	Alp Gru	1.7340	15200.	68	37916	No
73	GOM_TRA_1PNPDE20090531_214909_000000362079_00287_37916_9543.N1	31-MAY-2009 21:49:09	Twilight_stray	35.500	38	20Eps Sgr	1.8360	11000.	71	37916	No
74	GOM_TRA_1PNPDE20090531_215051_000000372079_00287_37916_9544.N1	31-MAY-2009 21:50:51	Twilight_stray	37.000	116	19Del Sgr	2.7000	4100.0	74	37916	No
75	GOM_TRA_1PNPDE20090531_215716_000000332079_00287_37916_9545.N1	31-MAY-2009 21:57:16	Bright	32.500	86	35Eta Oph	2.4300	10200.	65	37916	No
76	GOM_TRA_1PNPDE20090531_215907_000000302079_00287_37916_9546.N1	31-MAY-2009 21:59:07	Bright	29.500	98	13Zet Oph	2.5710	30000.	59	37916	No
77	GOM_TRA_1PNPDE20090531_220928_000000322079_00287_37916_9547.N1	31-MAY-2009 22:09:28	Bright	32.000	127	27Bet Her	2.7810	4700.0	64	37916	No
78	GOM_TRA_1PNPDE20090531_221254_000000332079_00287_37916_9548.N1	31-MAY-2009 22:12:54	Bright	33.000	133	40Zet Her	2.8070	6000.0	66	37916	No
79	GOM_TRA_1PNPDE20090531_222022_000000342079_00287_37916_9549.N1	31-MAY-2009 22:20:22	Bright	33.500	130	23Bet Dra	2.7990	5800.0	67	37916	No
80	GOM_TRA_1PNPDE20090531_223114_000000322079_00287_37916_9550.N1	31-MAY-2009 22:31:14	Twilight_stray	31.500	89	5Alp Cep	2.4510	8000.0	63	37916	No
81	GOM_TRA_1PNPDE20090531_223618_000000262079_00287_37916_9551.N1	31-MAY-2009 22:36:18	Twilight_stray	25.500	74	11Bet Cas	2.2680	6600.0	51	37916	No
82	GOM_TRA_1PNPDE20090531_224641_000000282079_00287_37916_9552.N1	31-MAY-2009 22:46:41	Twilight_stray	28.000	58	21Alp And	2.0730	11000.	56	37916	No
83	GOM_TRA_1PNPDE20090531_225137_000000302079_00287_37916_9553.N1	31-MAY-2009 22:51:37	Dark	29.500	140	88Gam Peg	2.8340	26000.	59	37916	No
84	GOM_TRA_1PNPDE20090531_230918_000000392079_00287_37916_9698.N1	31-MAY-2009 23:09:18	Dark	39.000	18	24Alp PsA	1.1660	9700.0	78	37916	No
85	GOM_TRA_1PNPDE20090531_231430_000000342079_00288_37917_9699.N1	31-MAY-2009 23:14:30	Dark	34.000	31	Alp Gru	1.7340	15200.	68	37917	No
86	GOM_TRA_1PNPDE20090531_232946_000000362079_00288_37917_9700.N1	31-MAY-2009 23:29:46	Twilight_stray	35.500	38	20Eps Sgr	1.8360	11000.	71	37917	No
87	GOM_TRA_1PNPDE20090531_233128_000000372079_00288_37917_9701.N1	31-MAY-2009 23:31:28	Twilight_stray	37.000	116	19Del Sgr	2.7000	4100.0	74	37917	No
88	GOM_TRA_1PNPDE20090531_233751_000000332079_00288_37917_9702.N1	31-MAY-2009 23:37:51	Bright	32.500	86	35Eta Oph	2.4300	10200.	65	37917	No
89	GOM_TRA_1PNPDE20090531_233943_000000302079_00288_37917_9703.N1	31-MAY-2009 23:39:43	Bright	29.500	98	13Zet Oph	2.5710	30000.	59	37917	No
90	GOM_TRA_1PNPDE20090531_235004_000000322079_00288_37917_9704.N1	31-MAY-2009 23:50:04	Bright	31.500	127	27Bet Her	2.7810	4700.0	63	37917	No
91	GOM_TRA_1PNPDE20090531_235330_000000332079_00288_37917_9705.N1	31-MAY-2009 23:53:30	Bright	32.500	133	40Zet Her	2.8070	6000.0	65	37917	No

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



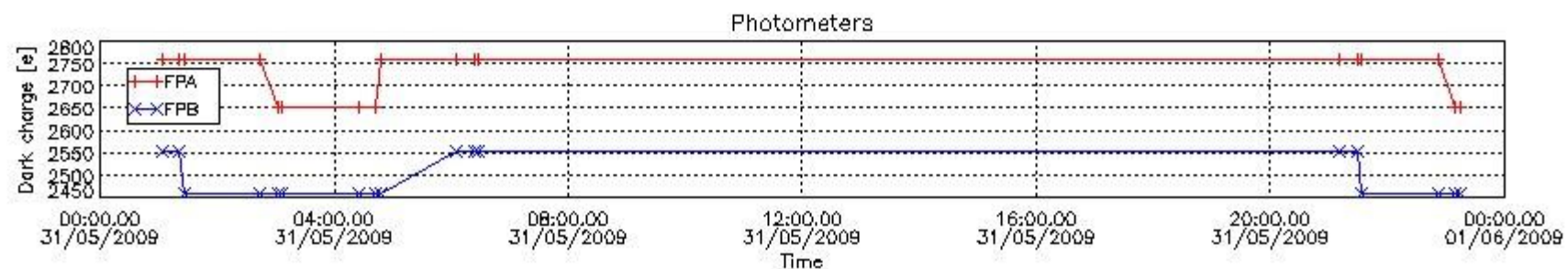
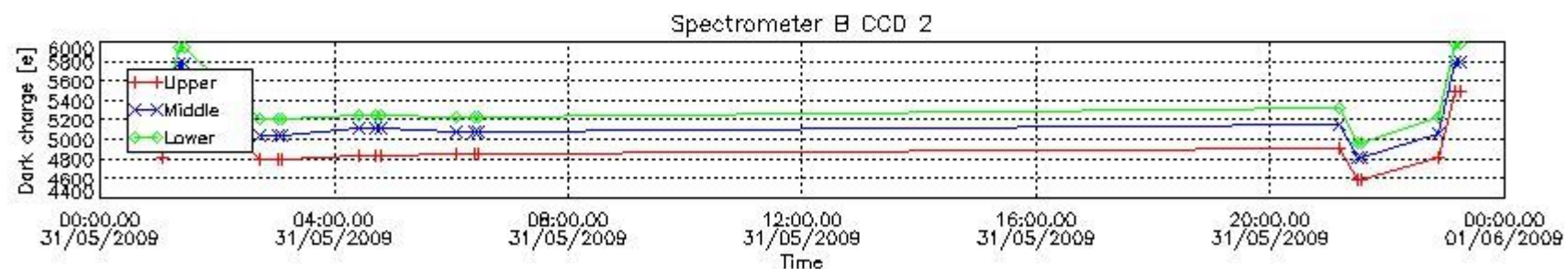
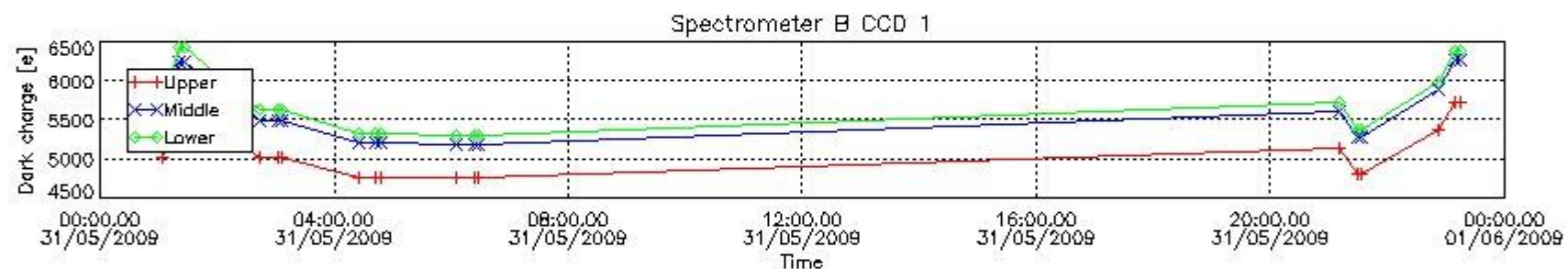
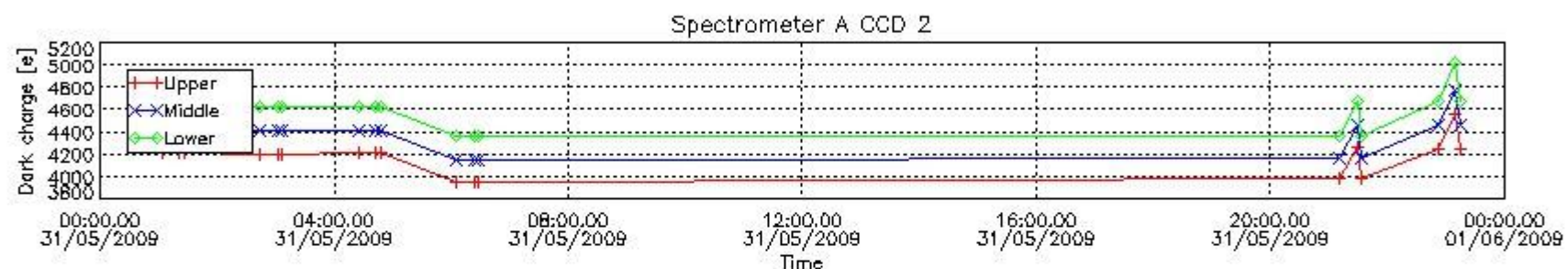
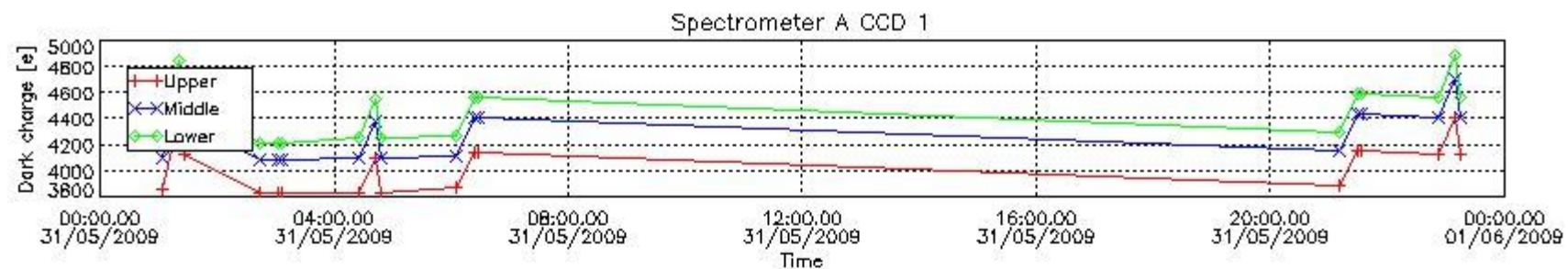
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



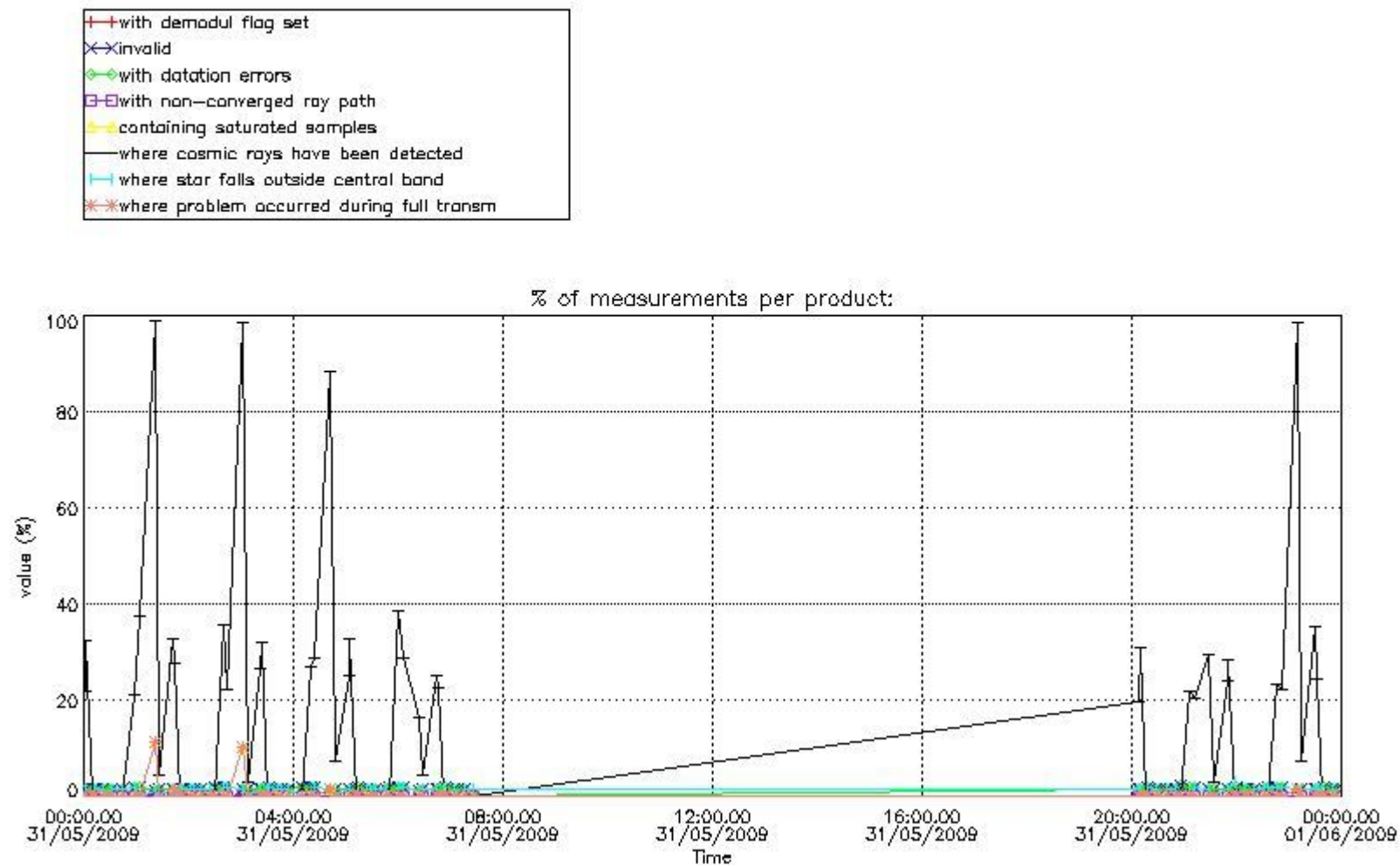
5. Demodulation flag and quality information monitoring

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.

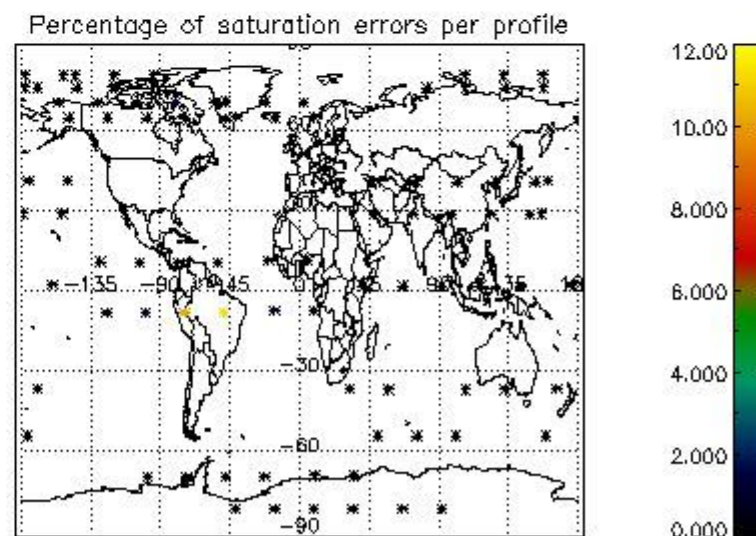
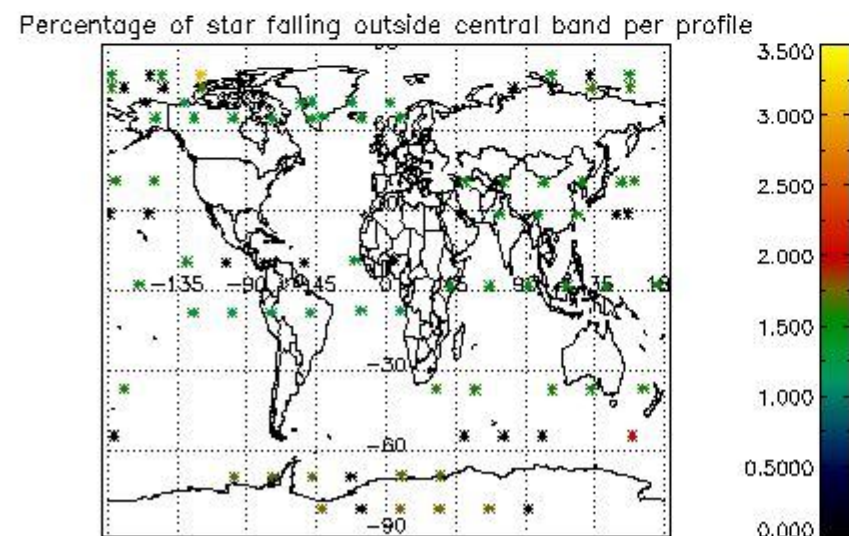
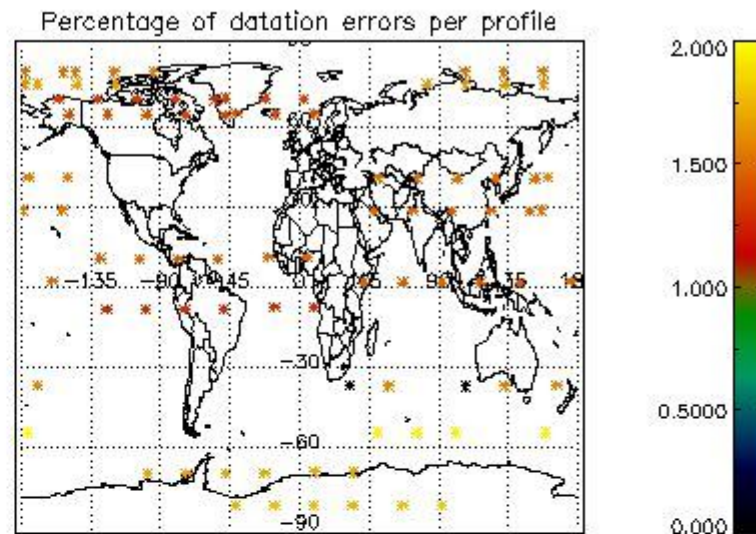
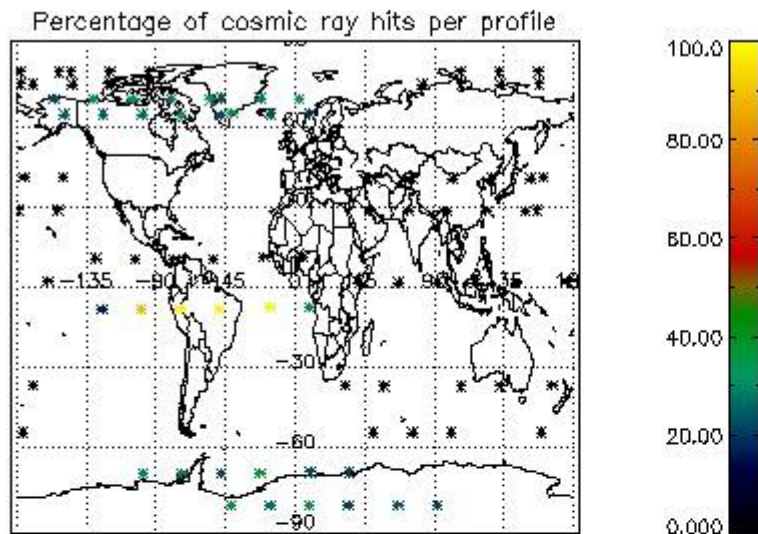
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.5556 %
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)



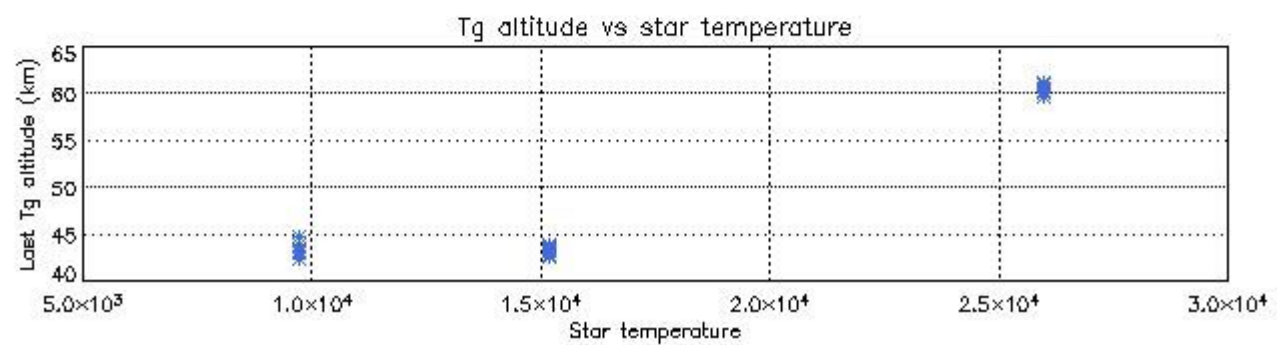
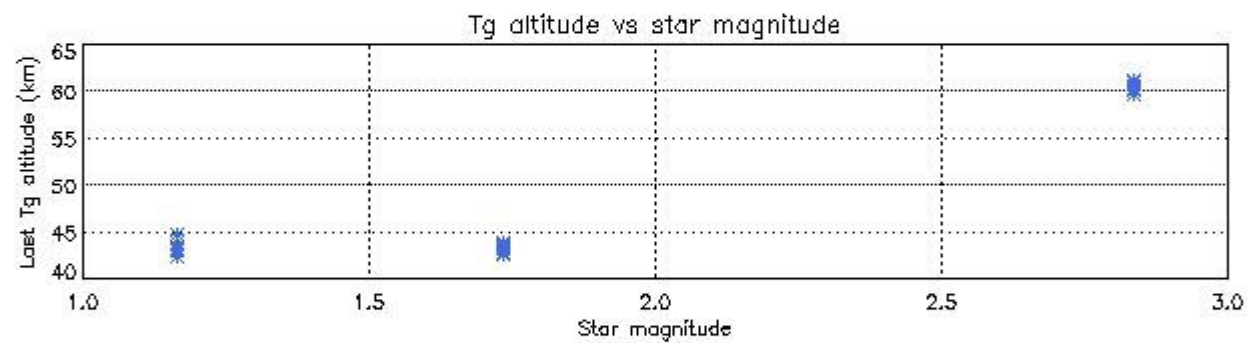
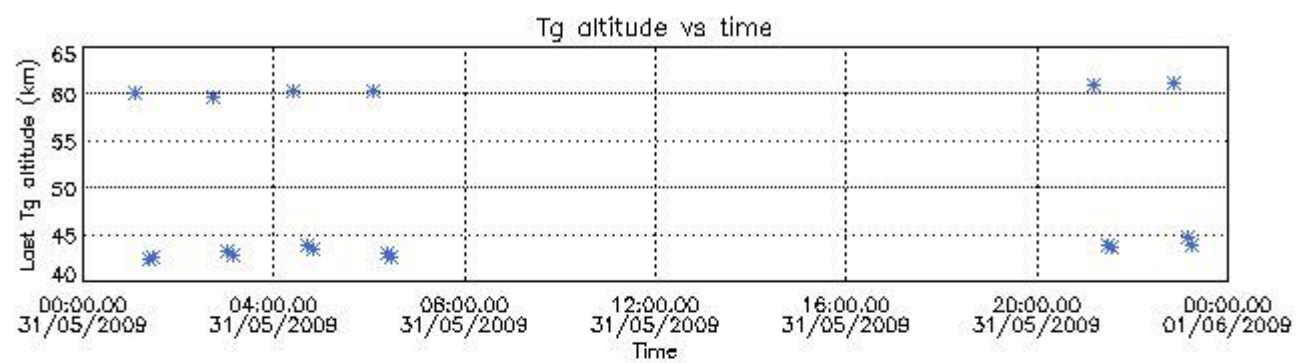
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	49.010	45.349	NaN
St. deviation:	8.2817	2.1129	NaN
Maximum:	61.054	49.043	NaN
Minimum:	42.451	42.088	NaN
Number of data:	18.000	39.000	NaN

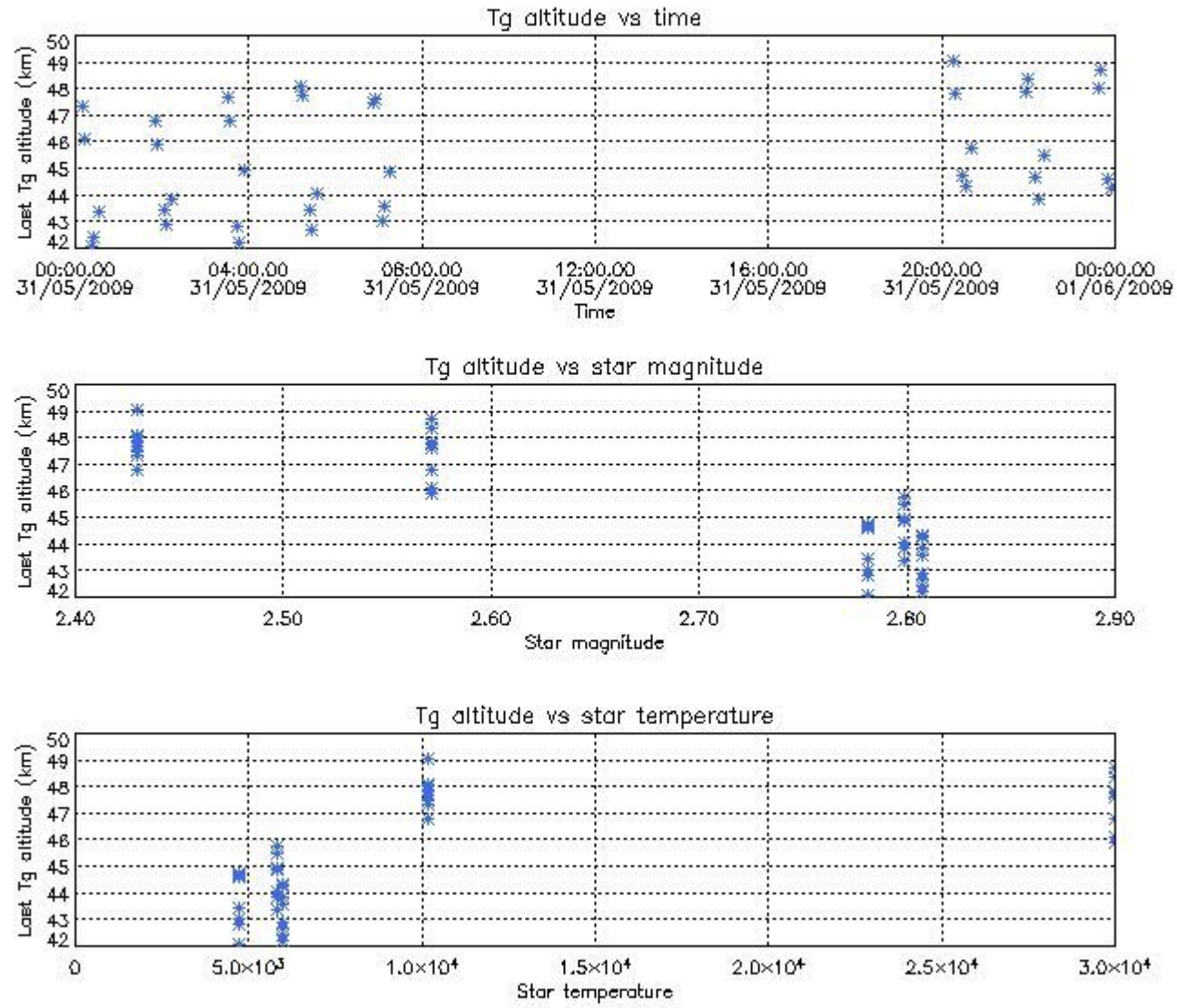
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

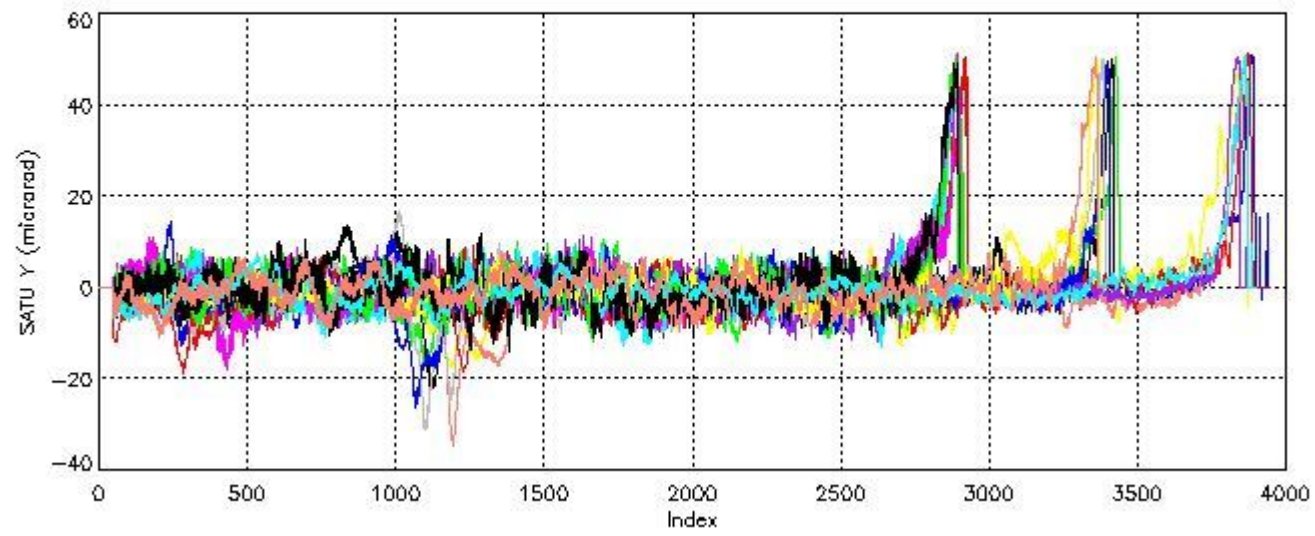
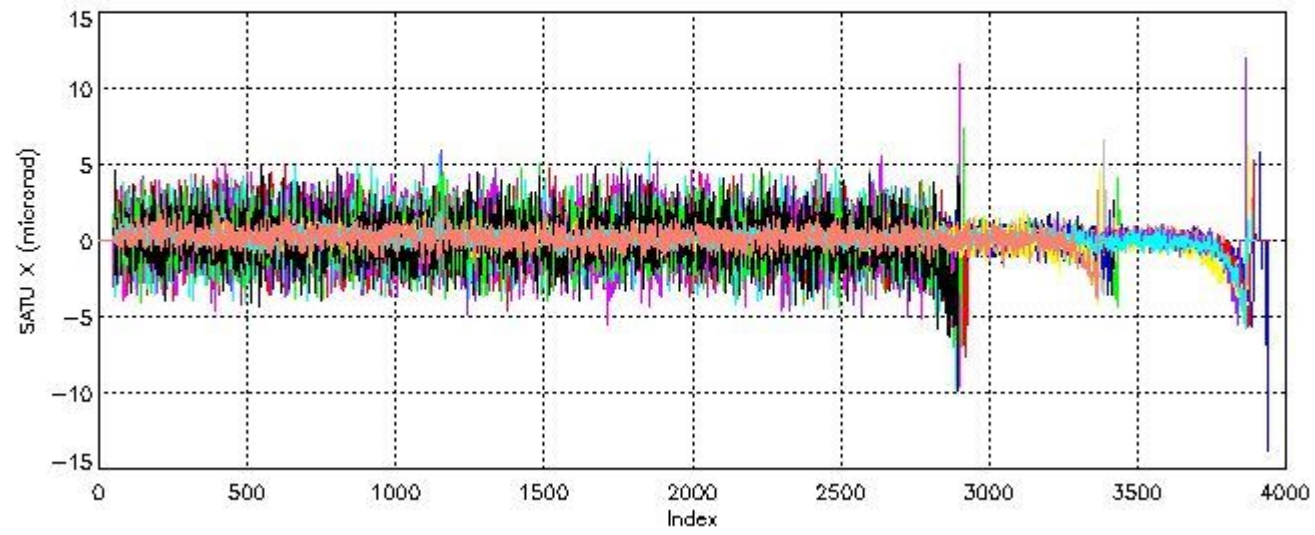


7. Star Acquisition and Tracking Unit (SATU)

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:	0.29351	-1.0569	0.35313	-1.0338
St. deviation:	0.83941	3.8430	0.97518	3.4714
Maximum:	5.0000	16.400	5.1000	13.200
Minimum:	-4.6000	-34.800	-3.7000	-30.100

Number of data:	20800.	20800.	38950.	38950.
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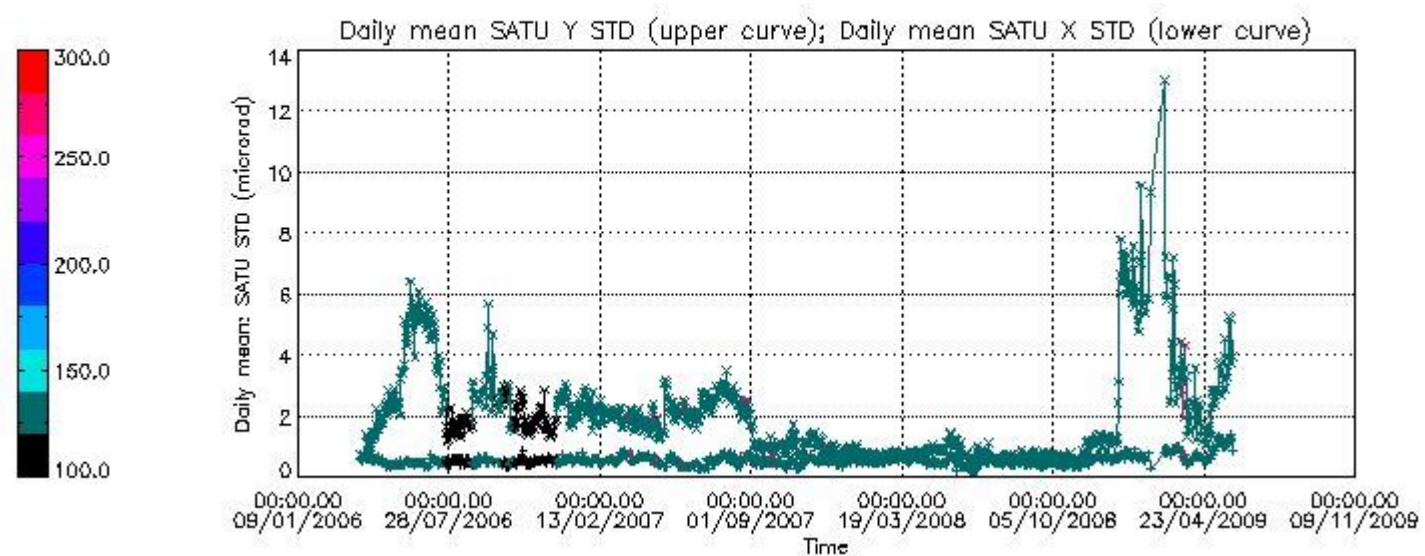
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

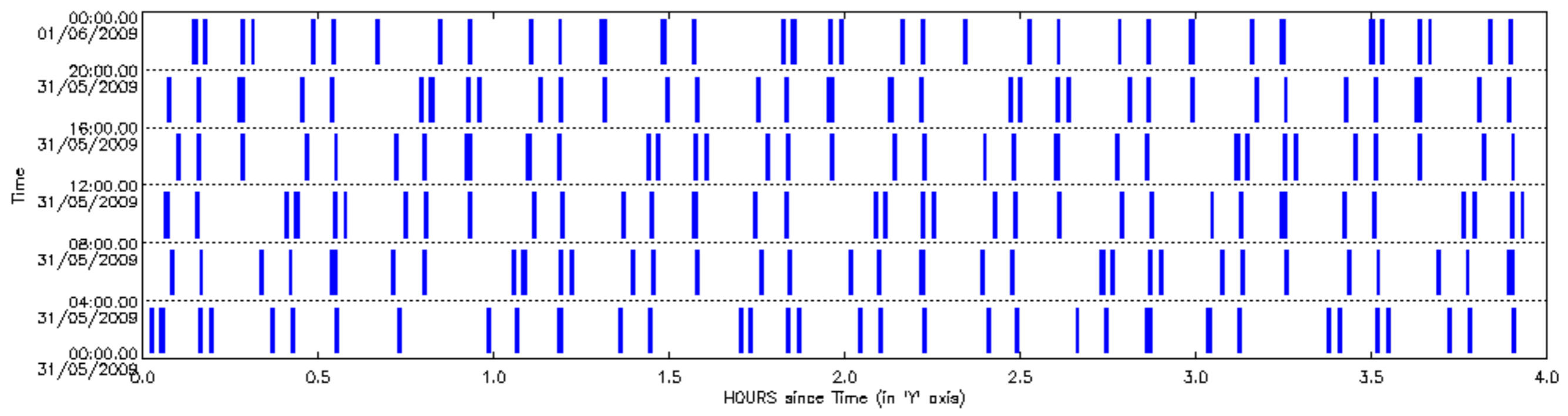
Lower curve: STD of SATU X axis

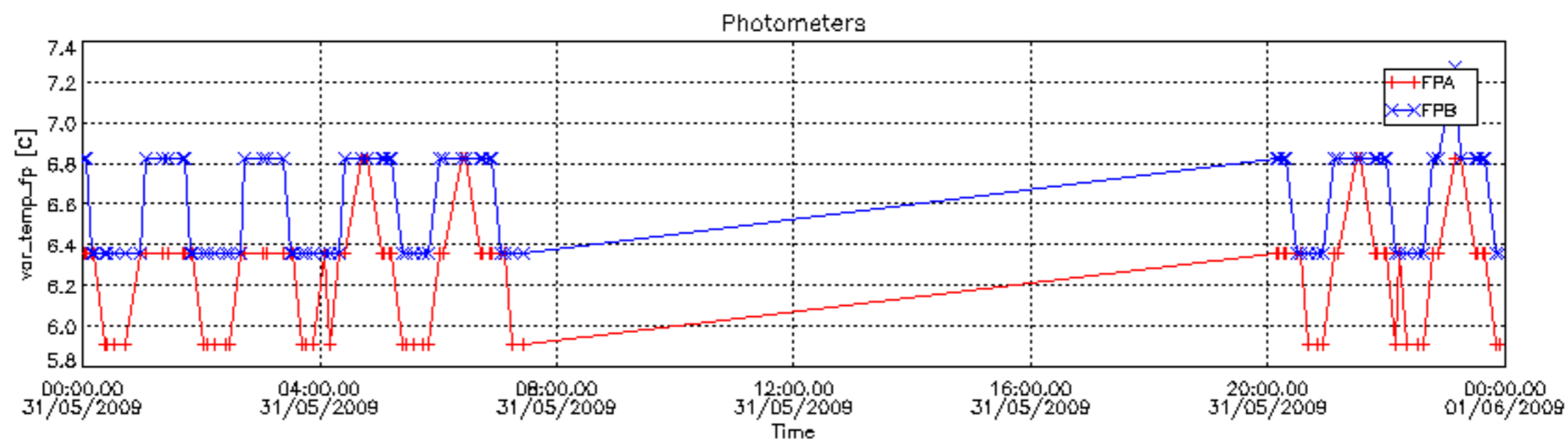
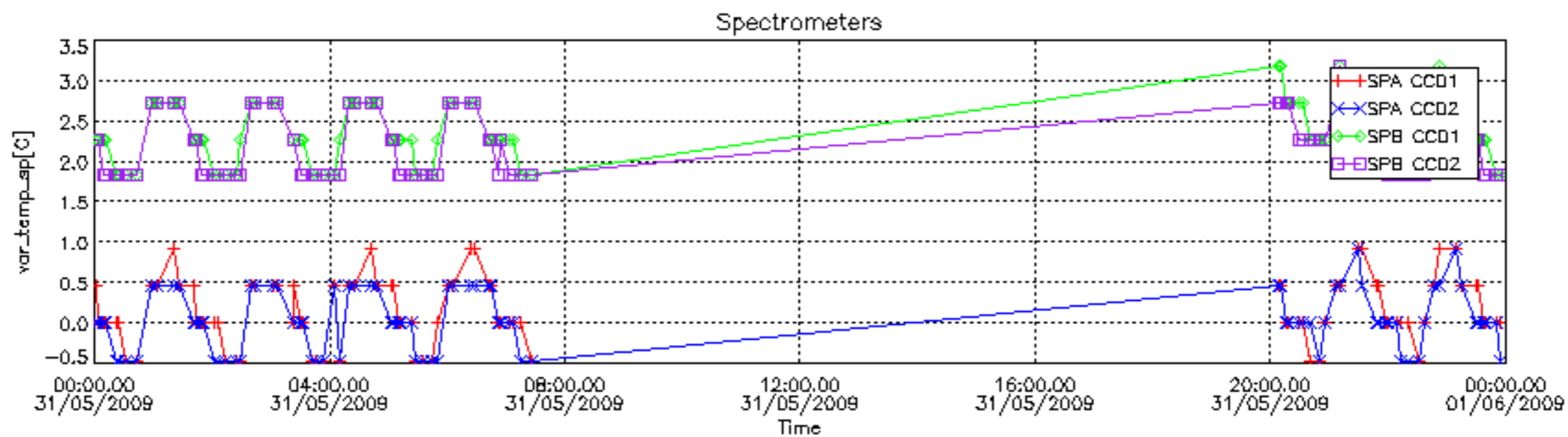


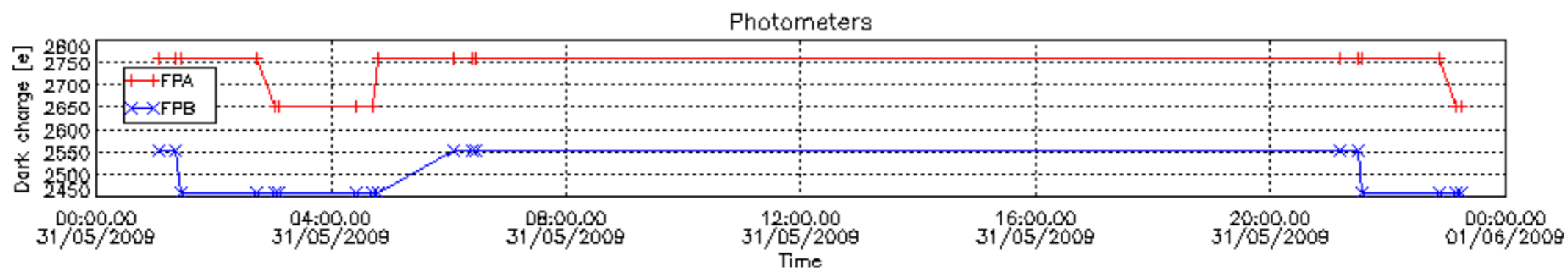
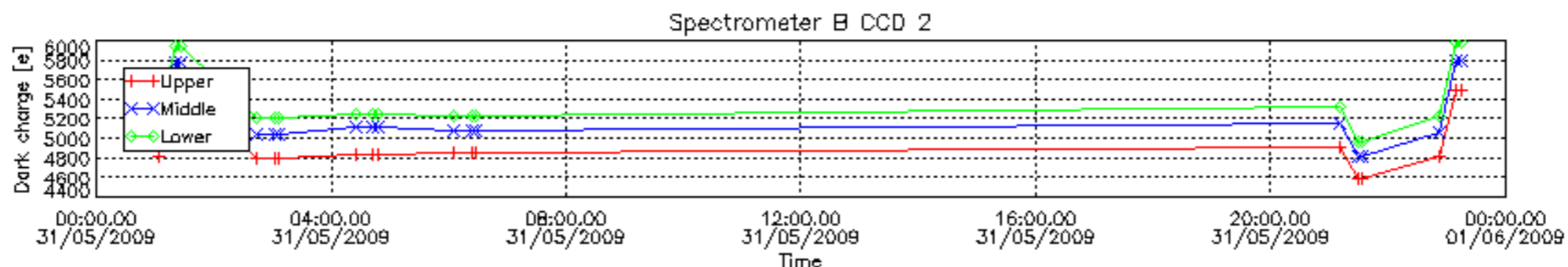
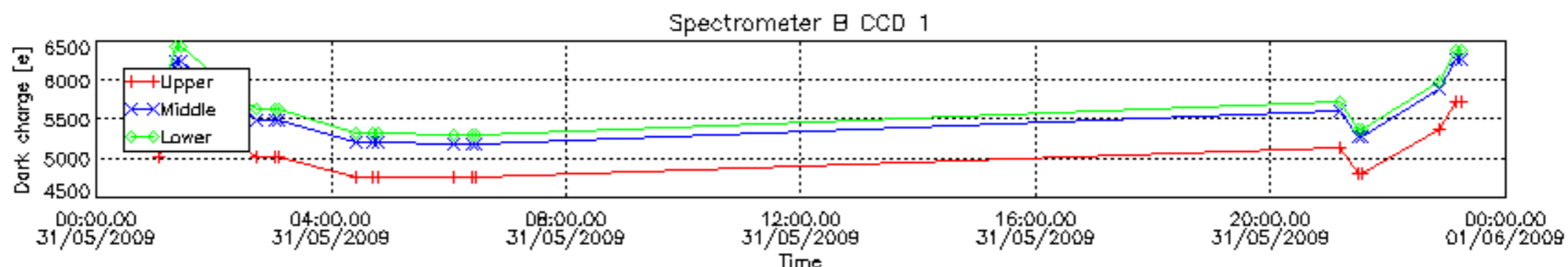
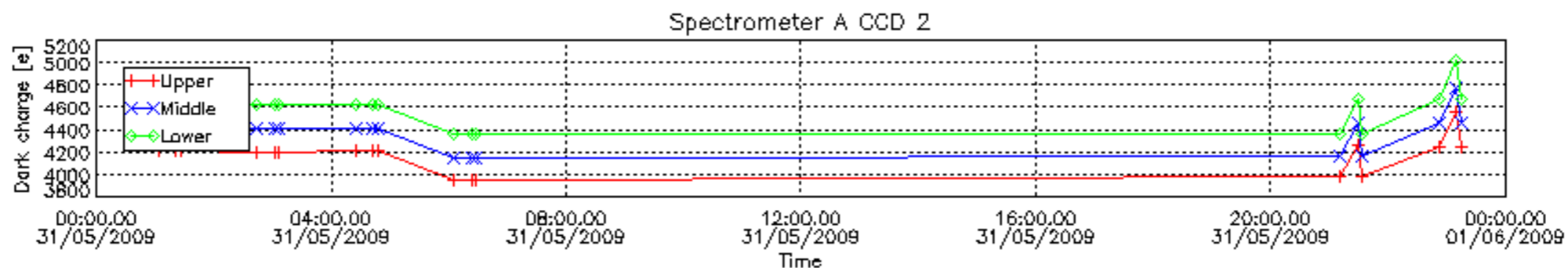
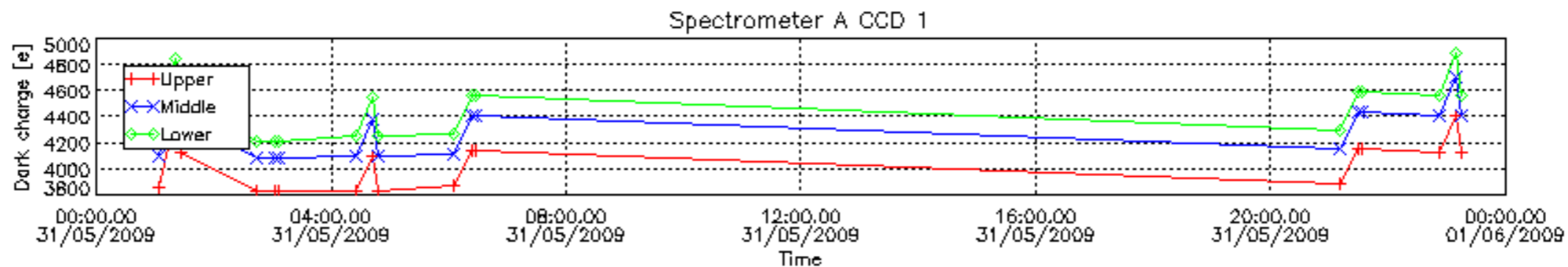
8. Auxiliary Data Files used for the production reported in section 2.4

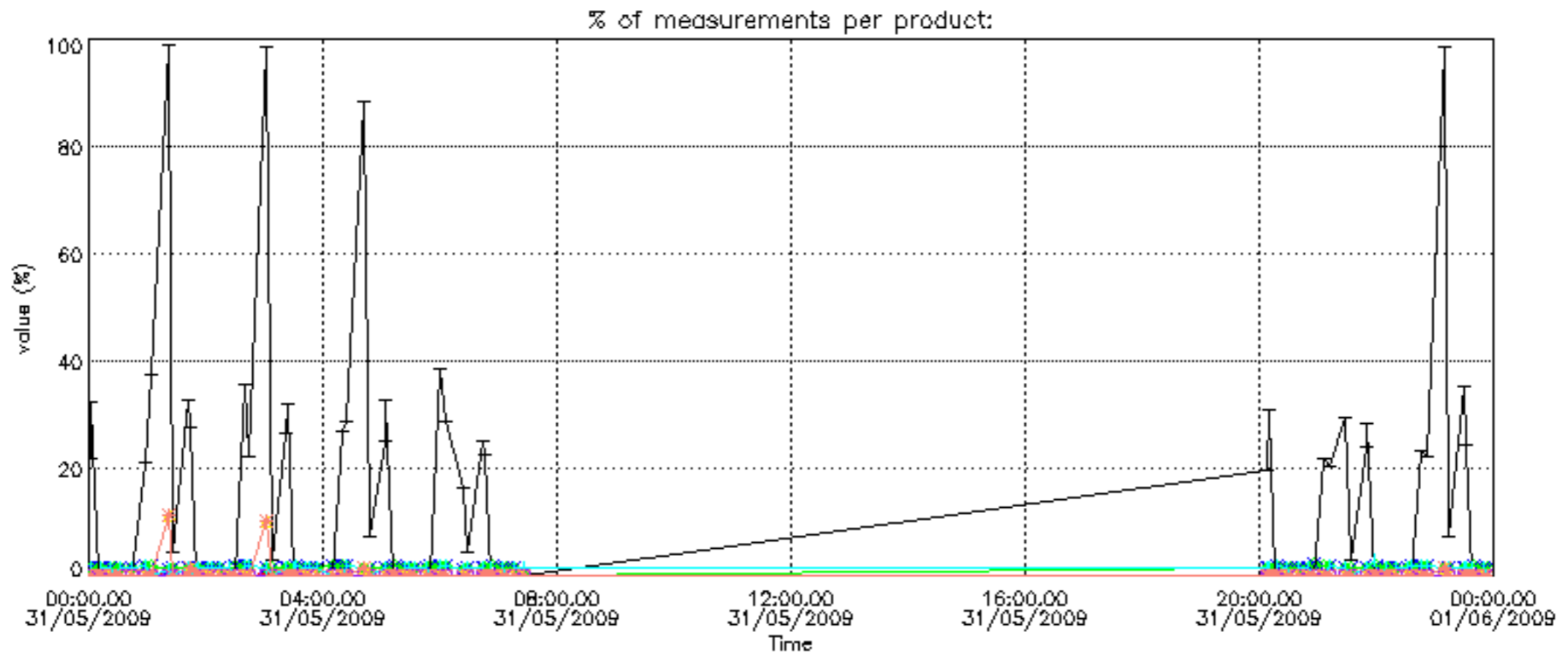
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	31-MAY-2009 00:01:14
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090526_074004_20090517_000000_20100101_000000	1	31-MAY-2009 00:01:14
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	31-MAY-2009 00:01:14
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	31-MAY-2009 00:01:14
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	31-MAY-2009 00:01:14
ECMWF_FILE	AUX_ECF_AXNECM20090530_070114_20090530_210000_20090531_090000	1	31-MAY-2009 00:01:14
ECMWF_FILE	AUX_ECF_AXNECM20090530_190112_20090531_030000_20090531_150000	33	31-MAY-2009 04:04:45
ECMWF_FILE	AUX_ECF_AXNECM20090531_064112_20090531_150000_20090601_030000	60	31-MAY-2009 20:08:33
ECMWF_FILE	AUX_ECF_AXNECM20090531_064112_20090531_210000_20090601_090000	71	31-MAY-2009 21:28:41
OPTIONAL_ECMWF_FILE	MISSING	1	31-MAY-2009 00:01:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090530_214605_000057382079_00272_37901_8051.N1	1	31-MAY-2009 00:01:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090530_232702_000057382079_00273_37902_8052.N1	11	31-MAY-2009 01:21:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090531_010759_000044632079_00274_37903_8053.N1	21	31-MAY-2009 02:29:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090531_022740_000054192079_00275_37904_8054.N1	33	31-MAY-2009 04:04:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090531_040319_000057382079_00276_37905_8055.N1	46	31-MAY-2009 05:45:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090531_195941_000041442079_00286_37915_8057.N1	60	31-MAY-2009 20:08:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090531_211404_000057382079_00286_37915_8058.N1	84	31-MAY-2009 23:09:18

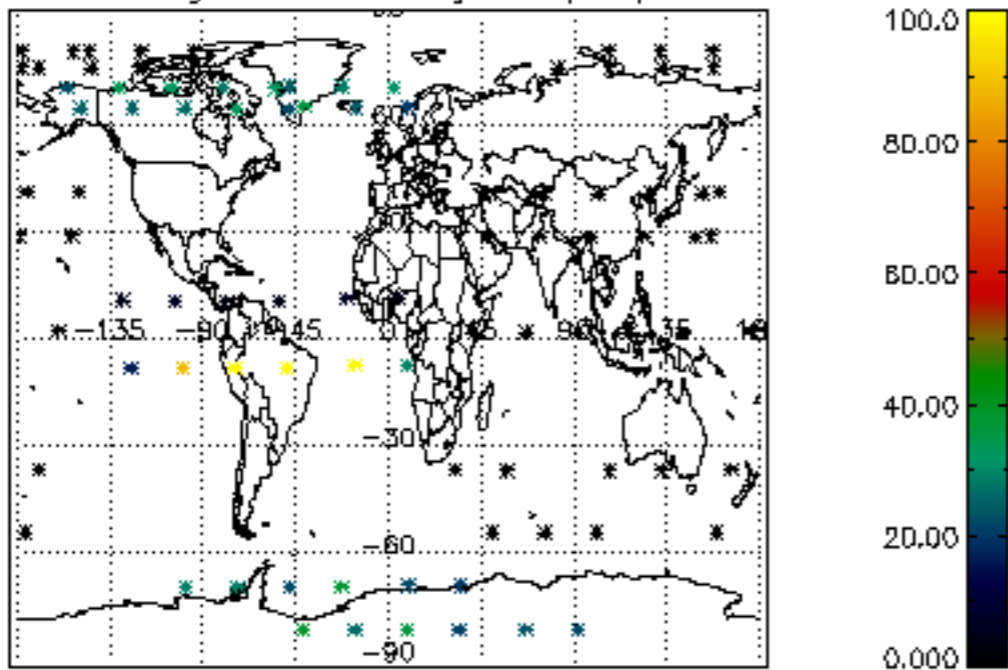




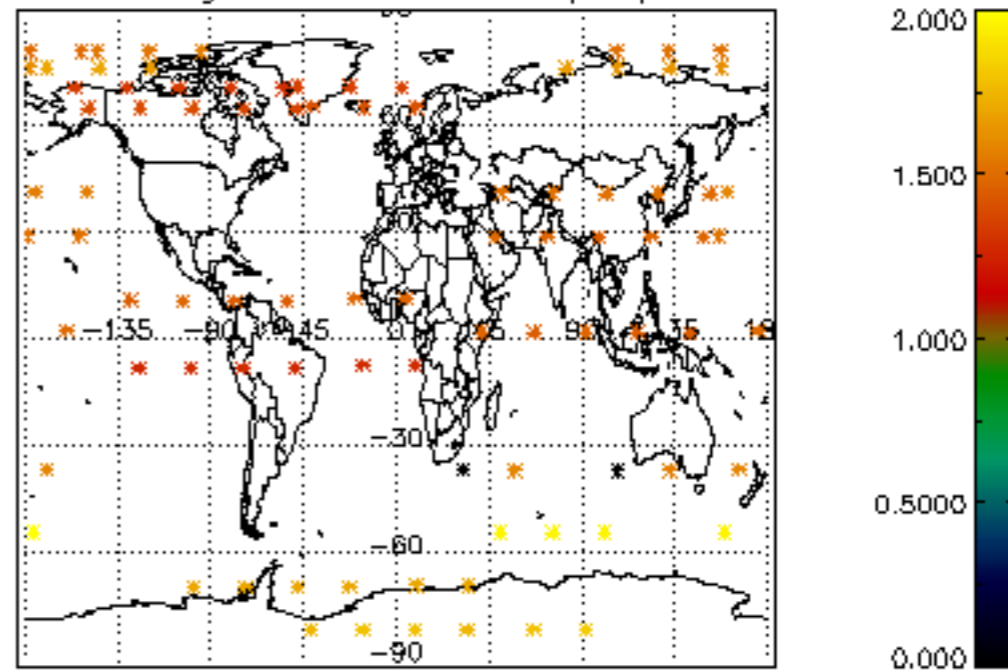




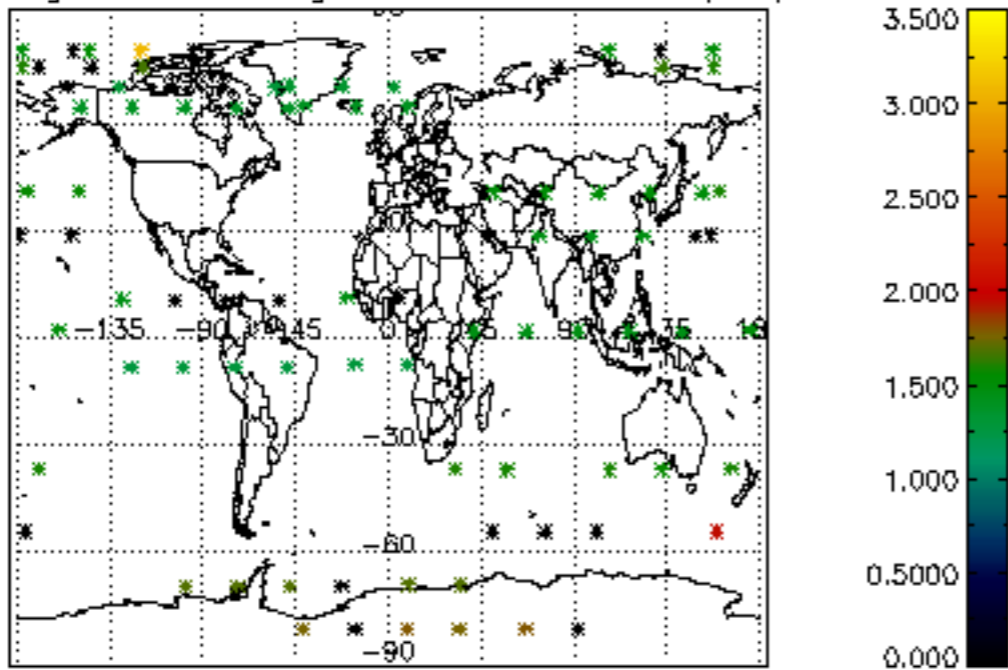
Percentage of cosmic ray hits per profile



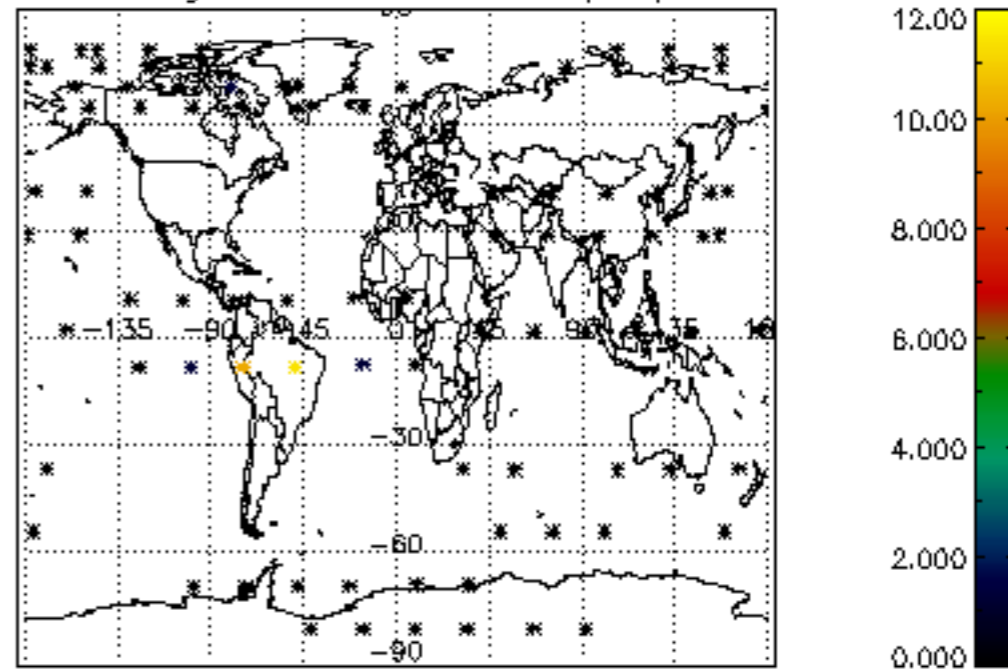
Percentage of datation errors per profile



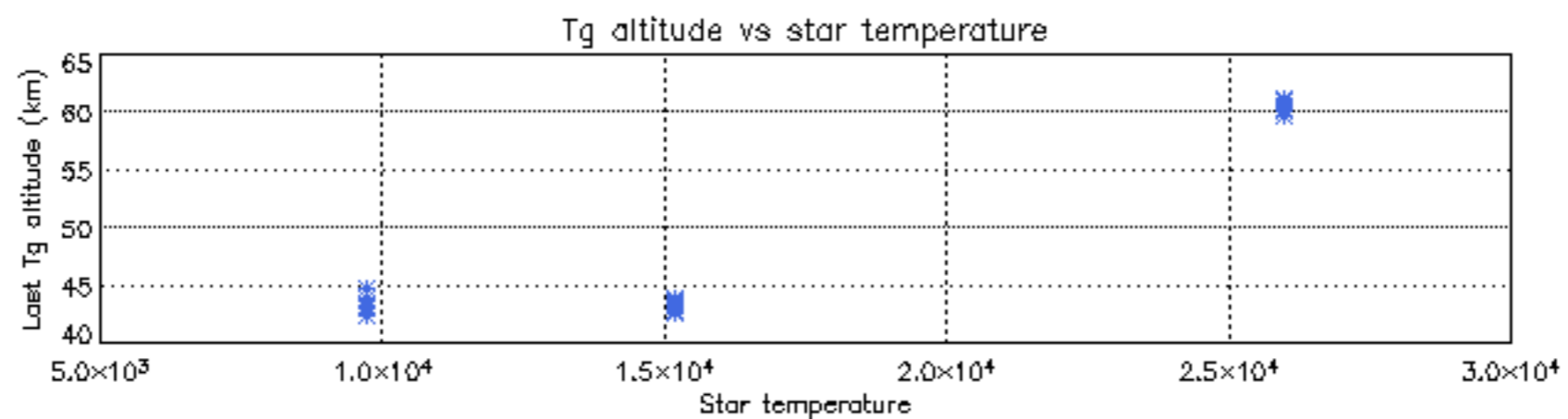
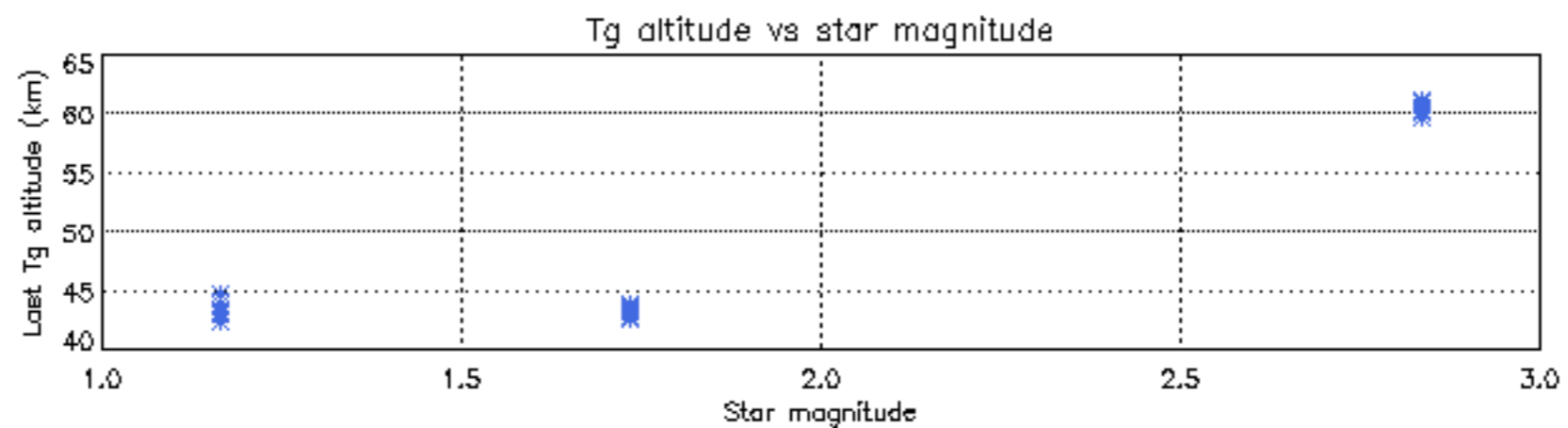
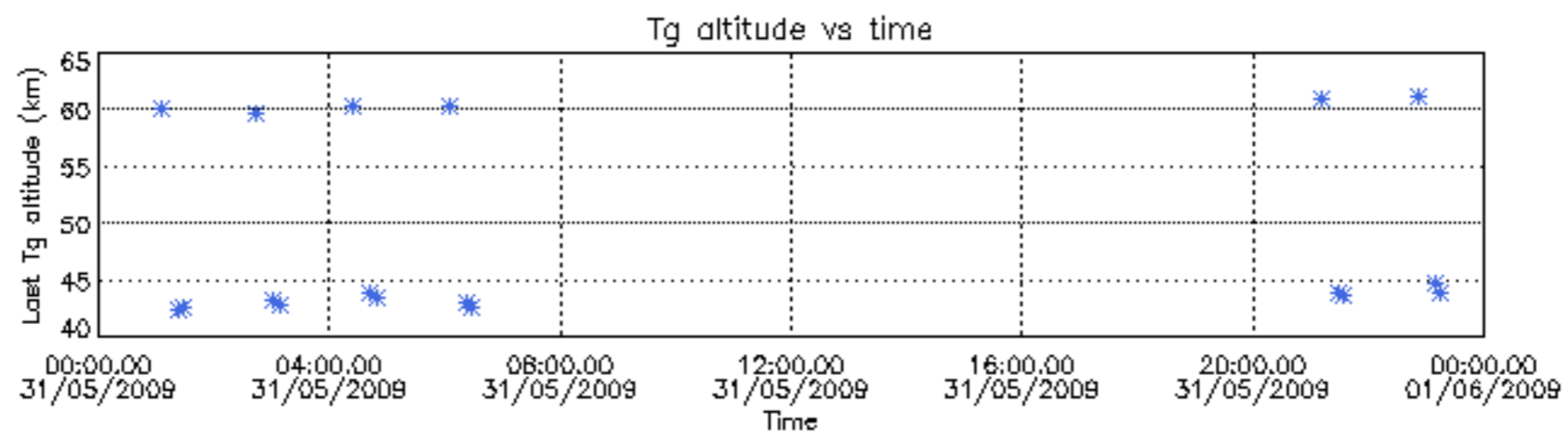
Percentage of star falling outside central band per profile



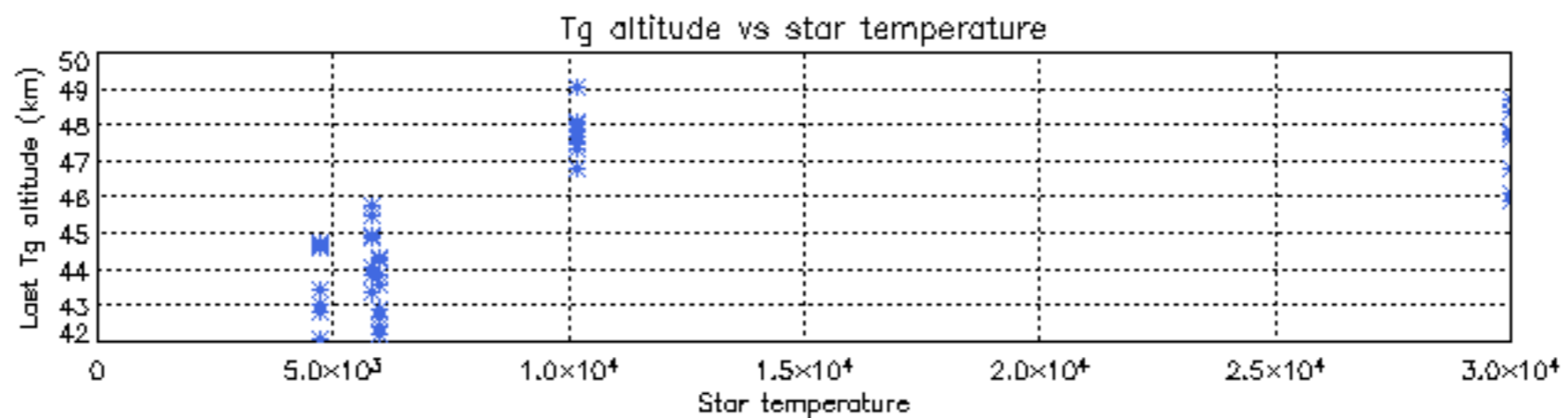
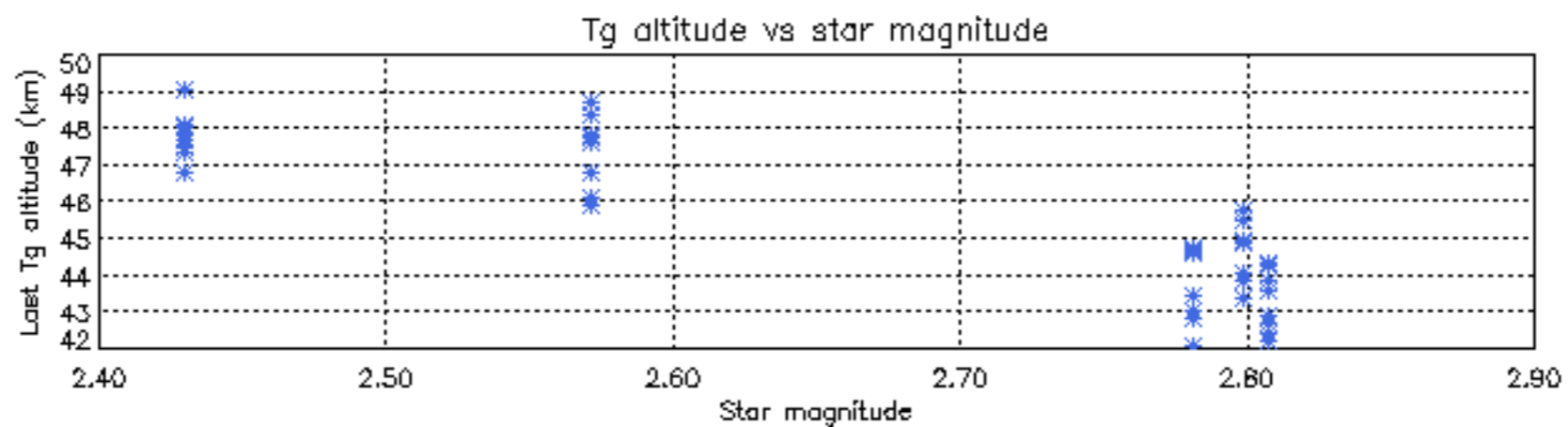
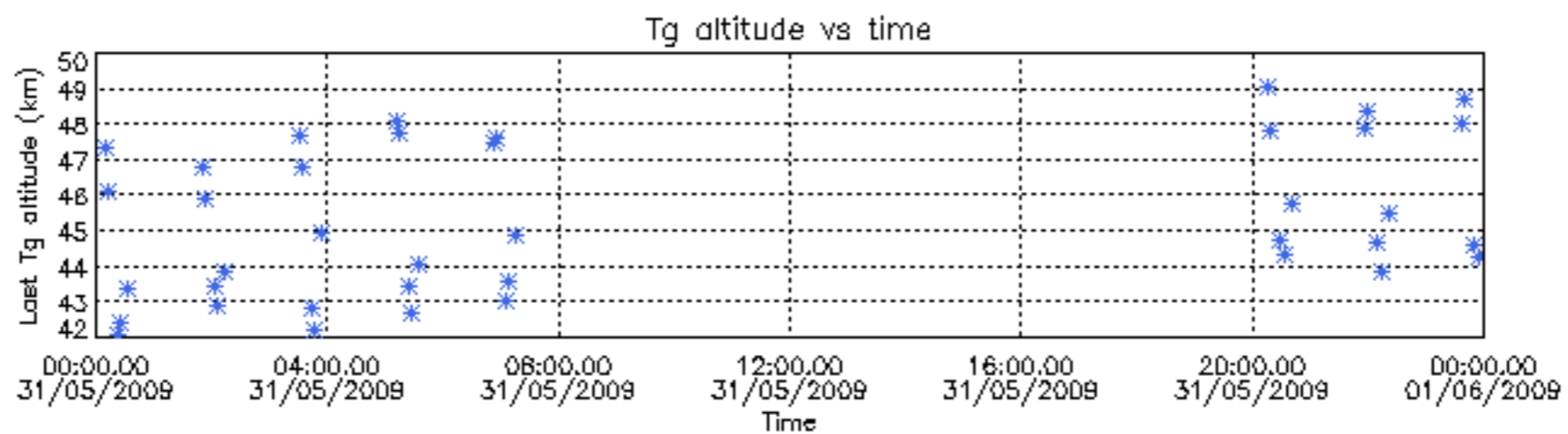
Percentage of saturation errors per profile

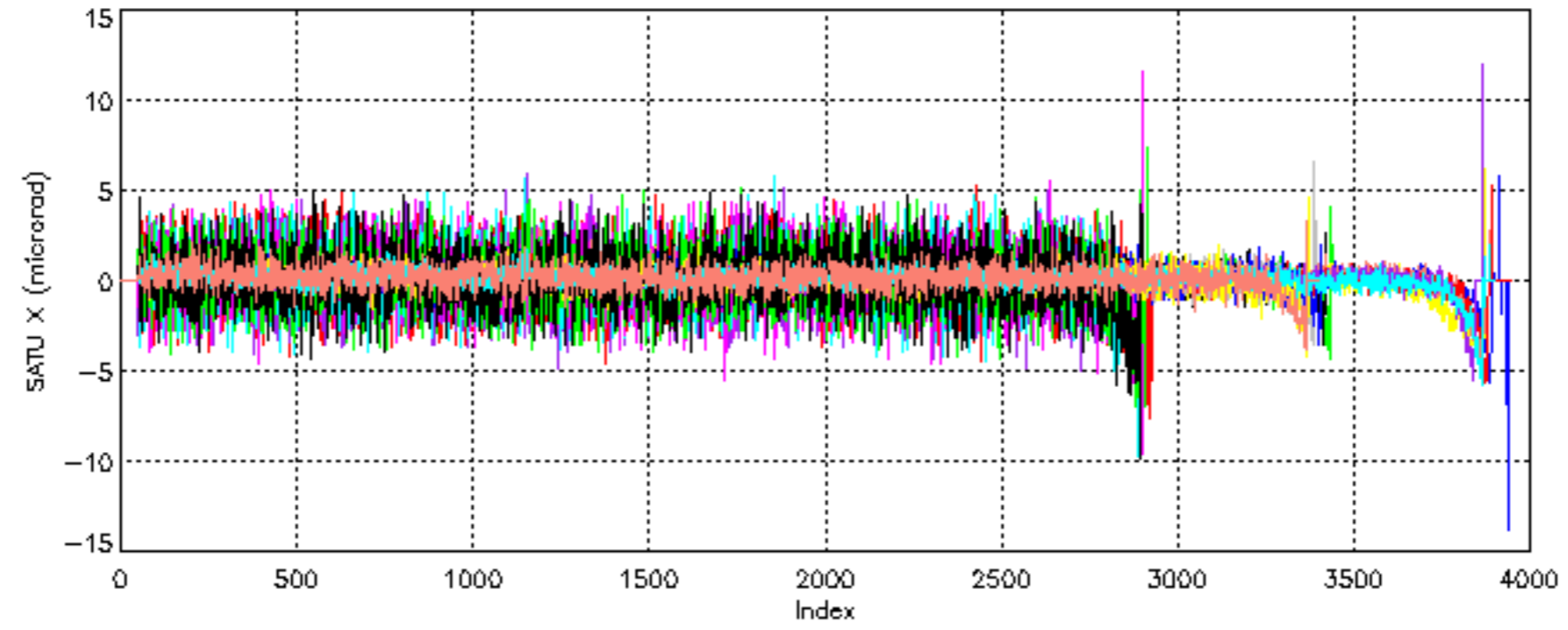


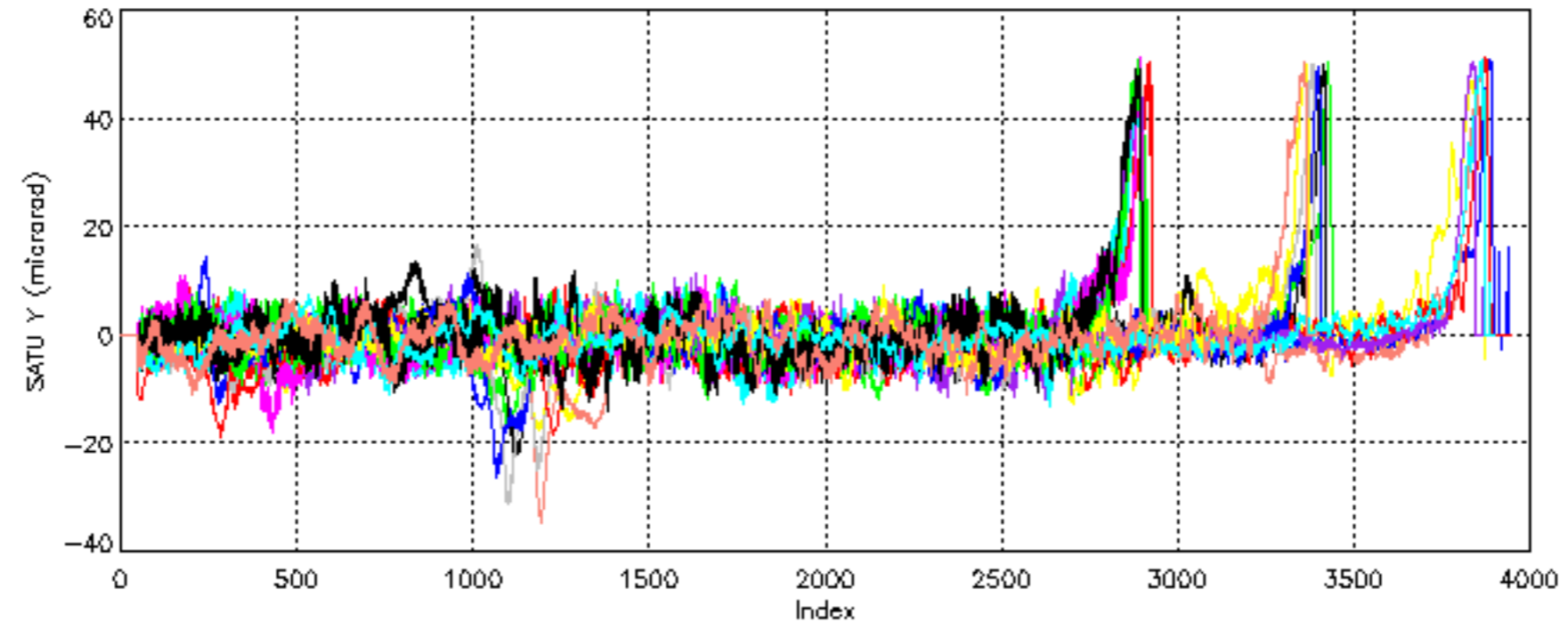
Tangent altitude at which the star is lost

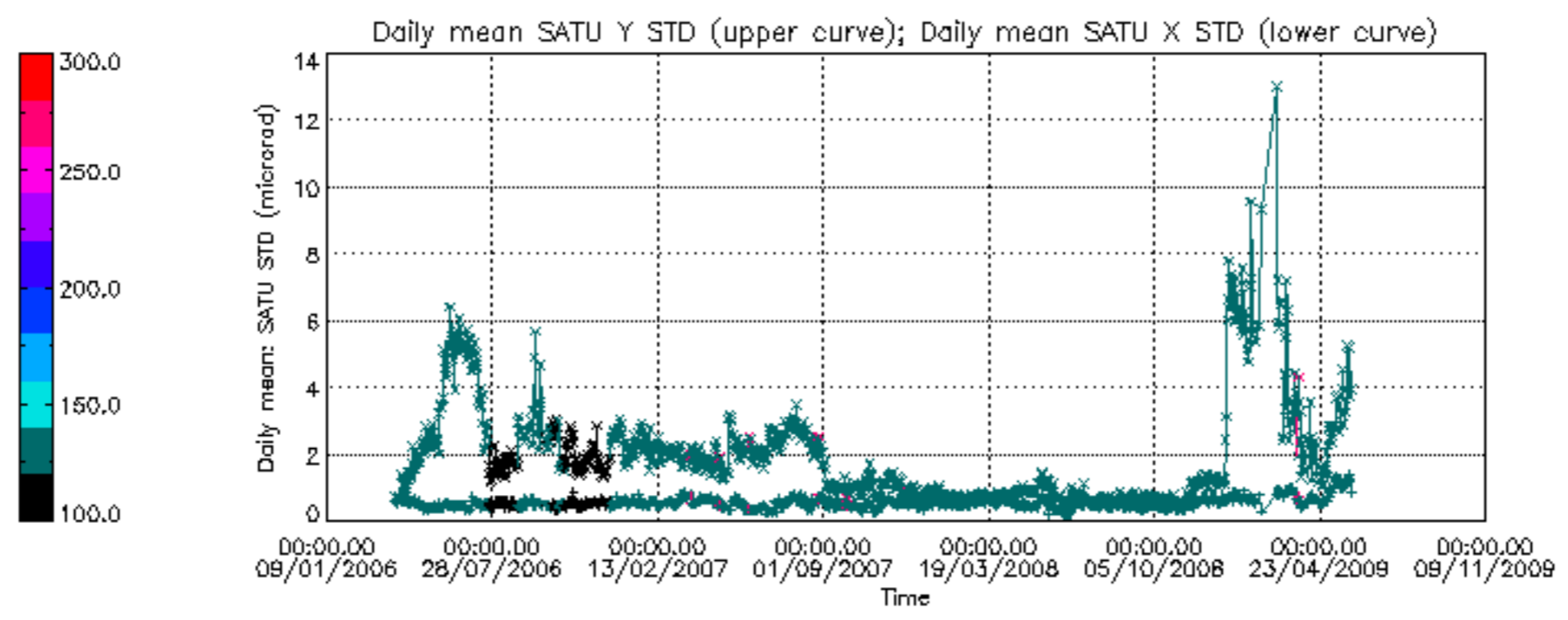


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090501_001529_000058432078_00345_37473_7694.N1

1; -633.7; 01-MAY-2009 00:15:29; Dark ; 60.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 121; 0;37473
 2; -476.9; 01-MAY-2009 00:18:05; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37473
 3; 748.8; 01-MAY-2009 00:38:31; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;37474
 4; 853.9; 01-MAY-2009 00:40:16; Dark ; 60.5; 25; 35Lam Sco ; 1.62; 28000;occ; 121; 0;37474
 5; 1041.1; 01-MAY-2009 00:43:23; Dark ; 59.0; 75; 26Eps Sco ; 2.29; 4250;occ; 118; 0;37474
 6; 1266.2; 01-MAY-2009 00:47:08; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;37474
 7; 1400.8; 01-MAY-2009 00:49:23; Dark ; 58.0; 80; 7Del Sco ; 2.32; 30000;occ; 116; 0;37474
 8; 1590.8; 01-MAY-2009 00:52:33; Bright; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;37474
 9; 1728.1; 01-MAY-2009 00:54:50; Bright; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;37474
 10; 2264.2; 01-MAY-2009 01:03:46; Bright; 45.0; 3; 16Alp Boo ; -0.05; 4250;occ; 90; 0;37474
 11; 2455.1; 01-MAY-2009 01:06:57; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;37474
 12; 2635.6; 01-MAY-2009 01:09:58; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37474
 13; 3209.6; 01-MAY-2009 01:19:32; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37474
 14; 3828.1; 01-MAY-2009 01:29:50; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;37474
 15; 4509.0; 01-MAY-2009 01:41:11; Dark ; 36.5; 164; 44Eta Peg ; 2.95; 5400;occ; 73; 0;37474
 16; 5033.8; 01-MAY-2009 01:49:56; Dark ; 52.0; 61; 8Eps Peg ; 2.10; 3900;occ; 104; 0;37474
 17; 5179.5; 01-MAY-2009 01:52:22; Dark ; 30.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 60; 0;37474

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090501_015222_000047352078_00346_37474_7695.N1

1; -856.4; 01-MAY-2009 01:52:22; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37474
 2; -632.3; 01-MAY-2009 01:56:06; Dark ; 59.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 118; 0;37474
 3; -475.7; 01-MAY-2009 01:58:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37474
 4; 749.7; 01-MAY-2009 02:19:08; Dark ; 58.5; 40; The Sco ; 1.86; 7100;occ; 117; 0;37475
 5; 855.0; 01-MAY-2009 02:20:53; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;37475
 6; 1041.9; 01-MAY-2009 02:24:00; Dark ; 59.0; 75; 26Eps Sco ; 2.29; 4250;occ; 118; 0;37475
 7; 1266.8; 01-MAY-2009 02:27:45; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;37475
 8; 1401.0; 01-MAY-2009 02:29:59; Dark ; 56.5; 80; 7Del Sco ; 2.32; 30000;occ; 113; 0;37475
 9; 1590.9; 01-MAY-2009 02:33:09; Bright; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;37475
 10; 1728.2; 01-MAY-2009 02:35:26; Bright; 50.0; 104; 27Bet Lib ; 2.61; 13100;occ; 100; 0;37475
 11; 2264.0; 01-MAY-2009 02:44:22; Bright; 39.5; 3; 16Alp Boo ; -0.05; 4250;occ; 79; 0;37475
 12; 2454.5; 01-MAY-2009 02:47:33; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;37475
 13; 2635.1; 01-MAY-2009 02:50:33; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;37475
 14; 3209.1; 01-MAY-2009 03:00:07; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37475
 15; 3827.8; 01-MAY-2009 03:10:26; Bright; 51.5; 89; 5Alp Cep ; 2.45; 8000;occ; 103; 0;37475

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090501_032147_000047822078_00347_37475_7696.N1

1; -1526.9; 01-MAY-2009 03:21:47; Dark ; 37.0; 164; 44Eta Peg ; 2.95; 5400;occ; 74; 0;37475
 2; -1001.3; 01-MAY-2009 03:30:33; Dark ; 52.0; 61; 8Eps Peg ; 2.10; 3900;occ; 104; 0;37475
 3; -855.6; 01-MAY-2009 03:32:58; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37475
 4; -631.1; 01-MAY-2009 03:36:43; Dark ; 58.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 117; 0;37475
 5; -474.5; 01-MAY-2009 03:39:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37475
 6; 751.0; 01-MAY-2009 03:59:45; Dark ; 53.5; 40; The Sco ; 1.86; 7100;occ; 107; 0;37476
 7; 855.7; 01-MAY-2009 04:01:30; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;37476
 8; 1042.8; 01-MAY-2009 04:04:37; Dark ; 59.5; 75; 26Eps Sco ; 2.29; 4250;occ; 119; 0;37476
 9; 1267.4; 01-MAY-2009 04:08:21; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37476
 10; 1401.5; 01-MAY-2009 04:10:36; Dark ; 56.0; 80; 7Del Sco ; 2.32; 30000;occ; 112; 0;37476
 11; 1590.8; 01-MAY-2009 04:13:45; Bright; 52.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 105; 0;37476
 12; 1728.3; 01-MAY-2009 04:16:02; Bright; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;37476
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7; 3821.8; 02-MAY-2009 12:42:19; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37495
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5; 2625.5; 02-MAY-2009 15:43:34; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37497
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8;	3816.3;	03-MAY-2009	17:12:24;	Bright;	;	36.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	73;	0;	37512
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6; 4546.3; 04-MAY-2009 13:31:45; Dark ; 33.0; 93; 53Bet Peg ; 2.52; 3100;occ; 66; 0;37524
7; 5222.8; 04-MAY-2009 13:43:02; Dark ; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;37524
8; 5621.6; 04-MAY-2009 13:49:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37524
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4; 2430.3; 04-MAY-2009 16:17:41; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;37526
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8; 3811.7; 04-MAY-2009 16:40:42; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37526
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5; 2429.7; 04-MAY-2009 19:38:52; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;37528
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9; 1418.4; 05-MAY-2009 07:06:13; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;37535
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3; 2526.8; 05-MAY-2009 07:24:41; Bright; 52.5; 67; 5Alp CrB ; 2.22; 11000;occ; 105; 0;37535
4; 2610.6; 05-MAY-2009 07:26:05; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;37535


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6; 3808.9; 05-MAY-2009 07:46:03; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37535
7; 4548.4; 05-MAY-2009 07:58:23; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37535
8; 5233.5; 05-MAY-2009 08:09:48; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37535
9; 5636.2; 05-MAY-2009 08:16:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37535
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3; 3172.2; 05-MAY-2009 09:16:02; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;37536
4; 3808.2; 05-MAY-2009 09:26:38; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;37536
5; 4548.6; 05-MAY-2009 09:38:59; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37536
6; 4795.8; 05-MAY-2009 09:43:06; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37536
7; 5234.4; 05-MAY-2009 09:50:25; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37536
8; 5637.5; 05-MAY-2009 09:57:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37536
9; 6838.1; 05-MAY-2009 10:17:08; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37536
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2; 2426.0; 05-MAY-2009 10:44:12; Bright; 41.5; 83; ; 2.38; 11000;occ; 83; 0;37537
3; 2610.1; 05-MAY-2009 10:47:16; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37537
4; 3171.8; 05-MAY-2009 10:56:38; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37537
5; 3807.9; 05-MAY-2009 11:07:14; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37537
6; 4548.7; 05-MAY-2009 11:19:35; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37537
7; 4796.1; 05-MAY-2009 11:23:42; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37537
8; 5235.1; 05-MAY-2009 11:31:01; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37537
9; 5638.8; 05-MAY-2009 11:37:45; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37537
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11; 6948.2; 05-MAY-2009 11:59:34; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;37537
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13; 7332.1; 05-MAY-2009 12:05:58; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;37537
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3; 2609.3; 05-MAY-2009 12:27:51; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37538
4; 3171.1; 05-MAY-2009 12:37:13; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;37538
5; 3808.4; 05-MAY-2009 12:47:50; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;37538
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8; 5236.3; 05-MAY-2009 13:11:38; Dark ; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;37538
9; 5640.1; 05-MAY-2009 13:18:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37538
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11; 6949.3; 05-MAY-2009 13:40:11; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37538
12; 7120.8; 05-MAY-2009 13:43:03; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37538
13; 7332.5; 05-MAY-2009 13:46:34; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37538
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6; 4797.2; 05-MAY-2009 14:44:55; Dark ; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;37539
7; 5237.0; 05-MAY-2009 14:52:15; Dark ; 48.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 96; 0;37539
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9; 6840.5; 05-MAY-2009 15:18:58; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37539
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5; 3170.6; 05-MAY-2009 15:58:24; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37540
6; 3806.9; 05-MAY-2009 16:09:01; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37540
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9; 5238.0; 05-MAY-2009 16:32:52; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37540
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5; 2424.5; 05-MAY-2009 17:26:34; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;37541
6; 2608.6; 05-MAY-2009 17:29:38; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37541
7; 3169.7; 05-MAY-2009 17:38:59; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37541
8; 3807.4; 05-MAY-2009 17:49:37; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37541
9; 4549.8; 05-MAY-2009 18:02:00; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37541
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11; 5240.3; 05-MAY-2009 19:54:06; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37542
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7; 1725.6; 06-MAY-2009 01:37:55; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37546
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