

GOMOS Daily Report 09-SEP-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	11SEP2009 04:33:31
Data source version	GOMOS/5.00
Start time of products	09SEP2009 00:00:42
Stop time of products	09SEP2009 23:54:21
Store outputs in DB	Yes
Nb of level 1b prods	83
Nb of prods with errors	0

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

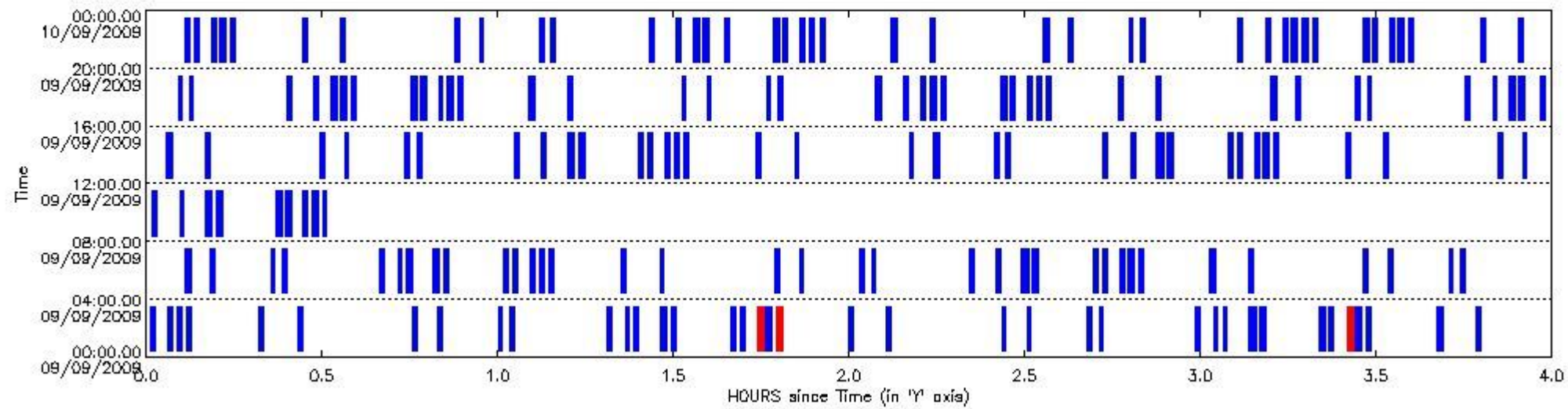
2.1 Level 0 products arrived in PCF (see template [here](#))

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
09-SEP-2009 01:44:22	1ZetCMa	177	39349
09-SEP-2009 01:47:36	AlpCol	108	39349
09-SEP-2009 03:24:59	1ZetCMa	177	39350

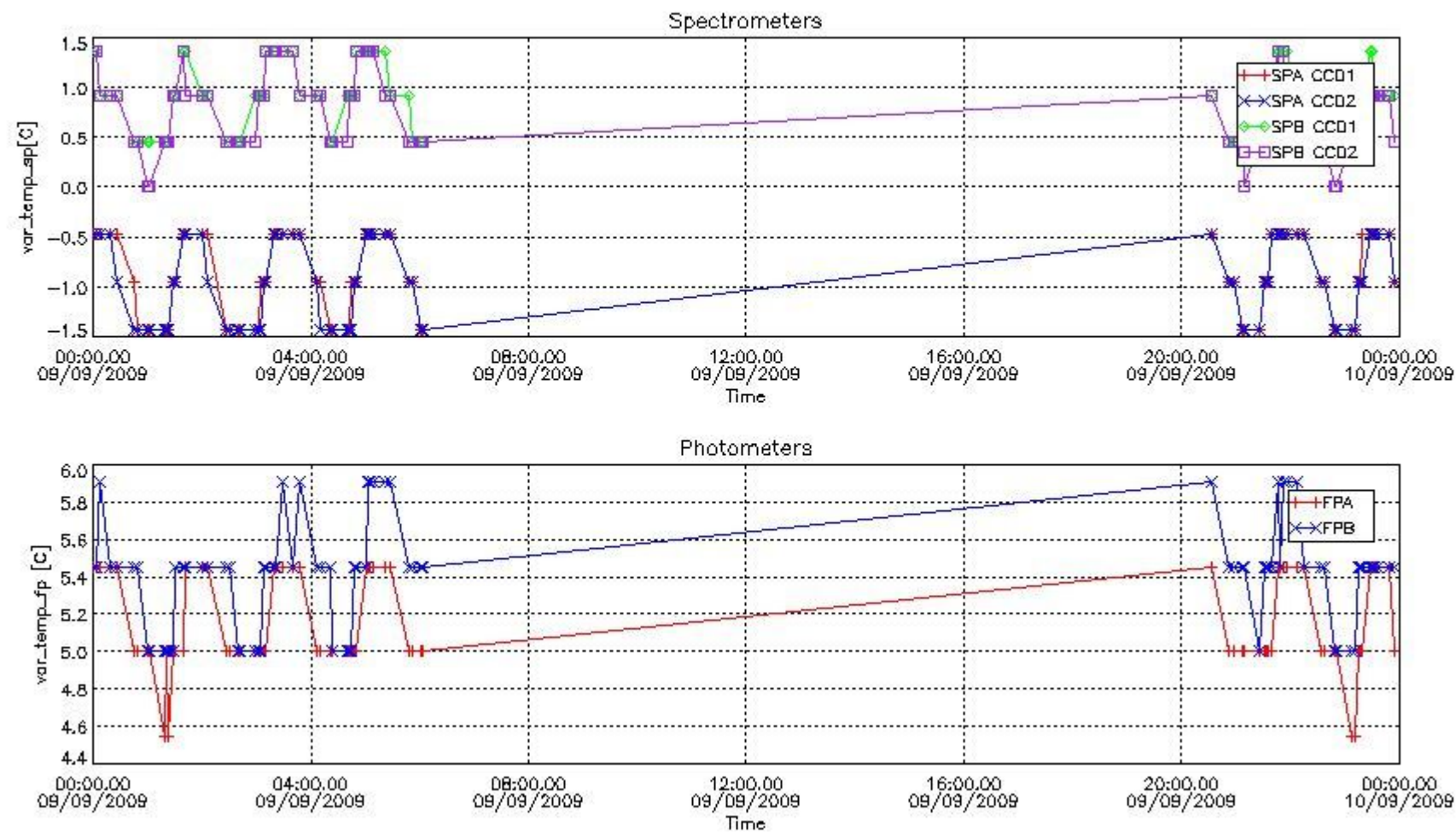
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090909_000042_000000522082_00216_39348_6277.N1	09-SEP-2009 00:00:42	Dark	51.500	47	2Bet CMa	1.9760	28000.	103	39348	No
2	GOM_TRA_1PNPDE20090909_000344_000000462082_00216_39348_6278.N1	09-SEP-2009 00:03:44	Dark	45.500	177	1Zet CMa	3.0220	26000.	91	39348	No
3	GOM_TRA_1PNPDE20090909_000657_000000502082_00216_39348_6279.N1	09-SEP-2009 00:06:57	Dark	50.000	108	Alp Col	2.6520	15200.	100	39348	No
4	GOM_TRA_1PNPDE20090909_001909_000000552082_00217_39349_6280.N1	09-SEP-2009 00:19:09	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39349	No
5	GOM_TRA_1PNPDE20090909_002551_000000452082_00217_39349_6281.N1	09-SEP-2009 00:25:51	Straylight	45.000	84	Alp Phe	2.3970	4500.0	90	39349	No
6	GOM_TRA_1PNPDE20090909_004531_000000422082_00217_39349_6282.N1	09-SEP-2009 00:45:31	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	39349	No
7	GOM_TRA_1PNPDE20090909_004944_000000402082_00217_39349_6283.N1	09-SEP-2009 00:49:44	Bright	39.500	164	44Eta Peg	2.9480	5400.0	79	39349	No
8	GOM_TRA_1PNPDE20090909_010004_000000402082_00217_39349_6284.N1	09-SEP-2009 01:00:04	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	39349	No

9	GOM_TRA_1PNPDE20090909_010203_000000432082_00217_39349_6285.N1	09-SEP-2009 01:02:03	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39349	No
10	GOM_TRA_1PNPDE20090909_011838_000000522082_00217_39349_6286.N1	09-SEP-2009 01:18:38	Bright	51.500	42	34Bet Aur	1.9000	10200.	103	39349	No
11	GOM_TRA_1PNPDE20090909_012146_000000352082_00217_39349_6287.N1	09-SEP-2009 01:21:46	Tw_i_and_stray	35.000	107	37The Aur	2.6490	11000.	70	39349	No
12	GOM_TRA_1PNPDE20090909_012316_000000412082_00217_39349_6288.N1	09-SEP-2009 01:23:16	Bright	41.000	24	66Alp Gem	1.5800	10200.	82	39349	No
13	GOM_TRA_1PNPDE20090909_012738_000000662082_00217_39349_6289.N1	09-SEP-2009 01:27:38	Tw_i_and_stray	65.500	151	13Mu Gem	2.8900	3000.0	131	39349	No
14	GOM_TRA_1PNPDE20090909_012933_000000552082_00217_39349_6290.N1	09-SEP-2009 01:29:33	Tw_i_and_stray	55.000	44	24Gam Gem	1.9280	11000.	110	39349	No
15	GOM_TRA_1PNPDE20090909_013945_000000492082_00217_39349_6426.N1	09-SEP-2009 01:39:45	Dark	49.000	1	9Alp CMa	-1.4400	11000.	98	39349	No
16	GOM_TRA_1PNPDE20090909_014119_000000502082_00217_39349_6427.N1	09-SEP-2009 01:41:19	Dark	49.500	47	2Bet CMa	1.9760	28000.	99	39349	No
17	GOM_TRA_1PNPDE20090909_015946_000000542082_00218_39350_6428.N1	09-SEP-2009 01:59:46	Dark	54.000	157	The1Eri	2.9060	9300.0	108	39350	No
18	GOM_TRA_1PNPDE20090909_020628_000000462082_00218_39350_6429.N1	09-SEP-2009 02:06:28	Straylight	45.500	84	Alp Phe	2.3970	4500.0	91	39350	No
19	GOM_TRA_1PNPDE20090909_022607_000000422082_00218_39350_6430.N1	09-SEP-2009 02:26:07	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	39350	No
20	GOM_TRA_1PNPDE20090909_023020_000000402082_00218_39350_6431.N1	09-SEP-2009 02:30:20	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39350	No
21	GOM_TRA_1PNPDE20090909_024040_000000432082_00218_39350_6432.N1	09-SEP-2009 02:40:40	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	39350	No
22	GOM_TRA_1PNPDE20090909_024238_000000412082_00218_39350_6433.N1	09-SEP-2009 02:42:38	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	39350	No
23	GOM_TRA_1PNPDE20090909_025914_000000492082_00218_39350_6570.N1	09-SEP-2009 02:59:14	Bright	49.000	42	34Bet Aur	1.9000	10200.	98	39350	No
24	GOM_TRA_1PNPDE20090909_030222_000000292082_00218_39350_6571.N1	09-SEP-2009 03:02:22	Tw_i_and_stray	29.000	107	37The Aur	2.6490	11000.	58	39350	No
25	GOM_TRA_1PNPDE20090909_030352_000000412082_00218_39350_6572.N1	09-SEP-2009 03:03:52	Bright	40.500	24	66Alp Gem	1.5800	10200.	81	39350	No
26	GOM_TRA_1PNPDE20090909_030814_000000722082_00218_39350_6573.N1	09-SEP-2009 03:08:14	Tw_i_and_stray	72.000	151	13Mu Gem	2.8900	3000.0	144	39350	No
27	GOM_TRA_1PNPDE20090909_031009_000000552082_00218_39350_6574.N1	09-SEP-2009 03:10:09	Tw_i_and_stray	55.000	44	24Gam Gem	1.9280	11000.	110	39350	No
28	GOM_TRA_1PNPDE20090909_032022_000000542082_00218_39350_6575.N1	09-SEP-2009 03:20:22	Dark	54.000	1	9Alp CMa	-1.4400	11000.	108	39350	No
29	GOM_TRA_1PNPDE20090909_032156_000000502082_00218_39350_6576.N1	09-SEP-2009 03:21:56	Dark	50.000	47	2Bet CMa	1.9760	28000.	100	39350	No
30	GOM_TRA_1PNPDE20090909_032811_000000482082_00218_39350_6577.N1	09-SEP-2009 03:28:11	Dark	48.000	108	Alp Col	2.6520	15200.	96	39350	No
31	GOM_TRA_1PNPDE20090909_034023_000000572082_00219_39351_6578.N1	09-SEP-2009 03:40:23	Dark	56.500	157	The1Eri	2.9060	9300.0	113	39351	No
32	GOM_TRA_1PNPDE20090909_034704_000000472082_00219_39351_6579.N1	09-SEP-2009 03:47:04	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	39351	No
33	GOM_TRA_1PNPDE20090909_040642_000000592082_00219_39351_6580.N1	09-SEP-2009 04:06:42	Bright	58.500	90	54Alp Peg	2.4870	11000.	117	39351	No
34	GOM_TRA_1PNPDE20090909_041056_000000402082_00219_39351_6581.N1	09-SEP-2009 04:10:56	Bright	39.500	164	44Eta Peg	2.9480	5400.0	79	39351	No
35	GOM_TRA_1PNPDE20090909_042115_000000422082_00219_39351_6582.N1	09-SEP-2009 04:21:15	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	39351	No
36	GOM_TRA_1PNPDE20090909_042313_000000452082_00219_39351_6583.N1	09-SEP-2009 04:23:13	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	39351	No
37	GOM_TRA_1PNPDE20090909_043949_000000542082_00219_39351_6734.N1	09-SEP-2009 04:39:49	Bright	53.500	42	34Bet Aur	1.9000	10200.	107	39351	No
38	GOM_TRA_1PNPDE20090909_044258_000000292082_00219_39351_6735.N1	09-SEP-2009 04:42:58	Tw_i_and_stray	29.000	107	37The Aur	2.6490	11000.	58	39351	No
39	GOM_TRA_1PNPDE20090909_044428_000000582082_00219_39351_6736.N1	09-SEP-2009 04:44:28	Bright	58.000	24	66Alp Gem	1.5800	10200.	116	39351	No
40	GOM_TRA_1PNPDE20090909_044851_000000652082_00219_39351_6737.N1	09-SEP-2009 04:48:51	Tw_i_and_stray	65.000	151	13Mu Gem	2.8900	3000.0	130	39351	No
41	GOM_TRA_1PNPDE20090909_045046_000000552082_00219_39351_6738.N1	09-SEP-2009 04:50:46	Tw_i_and_stray	55.000	44	24Gam Gem	1.9280	11000.	110	39351	No
42	GOM_TRA_1PNPDE20090909_050059_000000552082_00219_39351_6739.N1	09-SEP-2009 05:00:59	Dark	55.000	1	9Alp CMa	-1.4400	11000.	110	39351	No
43	GOM_TRA_1PNPDE20090909_050233_000000532082_00219_39351_6740.N1	09-SEP-2009 05:02:33	Dark	52.500	47	2Bet CMa	1.9760	28000.	105	39351	No
44	GOM_TRA_1PNPDE20090909_050534_000000462082_00219_39351_6741.N1	09-SEP-2009 05:05:34	Dark	46.000	177	1Zet CMa	3.0220	26000.	92	39351	No
45	GOM_TRA_1PNPDE20090909_050848_000000492082_00219_39351_6742.N1	09-SEP-2009 05:08:48	Dark	48.500	108	Alp Col	2.6520	15200.	97	39351	No
46	GOM_TRA_1PNPDE20090909_052100_000000552082_00220_39352_6743.N1	09-SEP-2009 05:21:00	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39352	No
47	GOM_TRA_1PNPDE20090909_052741_000000432082_00220_39352_6744.N1	09-SEP-2009 05:27:41	Straylight	43.000	84	Alp Phe	2.3970	4500.0	86	39352	No
48	GOM_TRA_1PNPDE20090909_054718_000000422082_00220_39352_6745.N1	09-SEP-2009 05:47:18	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	39352	No
49	GOM_TRA_1PNPDE20090909_055132_000000402082_00220_39352_6746.N1	09-SEP-2009 05:51:32	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39352	No
50	GOM_TRA_1PNPDE20090909_060151_000000422082_00220_39352_6747.N1	09-SEP-2009 06:01:51	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	39352	No
51	GOM_TRA_1PNPDE20090909_060349_000000452082_00220_39352_6748.N1	09-SEP-2009 06:03:49	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	39352	No
52	GOM_TRA_1PNPDE20090909_203308_000000462082_00229_39361_7160.N1	09-SEP-2009 20:33:08	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	39361	No
53	GOM_TRA_1PNPDE20090909_205239_000000422082_00229_39361_7161.N1	09-SEP-2009 20:52:39	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	39361	No
54	GOM_TRA_1PNPDE20090909_205652_000000422082_00229_39361_7162.N1	09-SEP-2009 20:56:52	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	39361	No
55	GOM_TRA_1PNPDE20090909_210709_000000422082_00229_39361_7163.N1	09-SEP-2009 21:07:09	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	39361	No
56	GOM_TRA_1PNPDE20090909_210906_000000422082_00229_39361_7164.N1	09-SEP-2009 21:09:06	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39361	No
57	GOM_TRA_1PNPDE20090909_212546_000000542082_00229_39361_7165.N1	09-SEP-2009 21:25:46	Bright	54.000	42	34Bet Aur	1.9000	10200.	108	39361	No
58	GOM_TRA_1PNPDE20090909_213029_000000422082_00229_39361_7166.N1	09-SEP-2009 21:30:29	Bright	41.500	24	66Alp Gem	1.5800	10200.	83	39361	No
59	GOM_TRA_1PNPDE20090909_213325_000000572082_00229_39361_7167.N1	09-SEP-2009 21:33:25	Tw_i_and_stray	56.500	170	27Eps Gem	3.0000	9700.0	113	39361	No
60	GOM_TRA_1PNPDE20090909_213454_000000702082_00229_39361_7168.N1	09-SEP-2009 21:34:54	Tw_i_and_stray	70.000	151	13Mu Gem	2.8900	3000.0	140	39361	No
61	GOM_TRA_1PNPDE20090909_213840_000000582082_00229_39361_7169.N1	09-SEP-2009 21:38:40	Twilight	57.500	8	10Alp CMi	0.40000	6500.0	115	39361	No
62	GOM_TRA_1PNPDE20090909_214706_000000562082_00229_39361_7305.N1	09-SEP-2009 21:47:06	Dark	56.000	1	9Alp CMa	-1.4400	11000.	112	39361	No
63	GOM_TRA_1PNPDE20090909_214843_000000492082_00229_39361_7306.N1	09-SEP-2009 21:48:43	Dark	48.500	47	2Bet CMa	1.9760	28000.	97	39361	No
64	GOM_TRA_1PNPDE20090909_215143_000000432082_00229_39361_7307.N1	09-SEP-2009 21:51:43	Dark	43.000	177	1Zet CMa	3.0220	26000.	86	39361	No
65	GOM_TRA_1PNPDE20090909_215459_000000492082_00229_39361_7308.N1	09-SEP-2009 21:54:59	Dark	49.000	108	Alp Col	2.6520	15200.	98	39361	No
66	GOM_TRA_1PNPDE20090909_220711_000000552082_00230_39362_7309.N1	09-SEP-2009 22:07:11	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39362	No
67	GOM_TRA_1PNPDE20090909_221344_000000492082_00230_39362_7310.N1	09-SEP-2009 22:13:44	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	39362	No

68	GOM_TRA_1PNPDE20090909_223314_000000612082_00230_39362_7311.N1	09-SEP-2009 22:33:14	Bright	61.000	90	54Alp Peg	2.4870	11000.	122	39362	No
69	GOM_TRA_1PNPDE20090909_223728_000000382082_00230_39362_7312.N1	09-SEP-2009 22:37:28	Bright	38.000	164	44Eta Peg	2.9480	5400.0	76	39362	No
70	GOM_TRA_1PNPDE20090909_224744_000000422082_00230_39362_7313.N1	09-SEP-2009 22:47:44	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	39362	No
71	GOM_TRA_1PNPDE20090909_224941_000000462082_00230_39362_7314.N1	09-SEP-2009 22:49:41	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	39362	No
72	GOM_TRA_1PNPDE20090909_230622_000000522082_00230_39362_7315.N1	09-SEP-2009 23:06:22	Bright	52.000	42	34Bet Aur	1.9000	10200.	104	39362	No
73	GOM_TRA_1PNPDE20090909_231105_000000592082_00230_39362_7316.N1	09-SEP-2009 23:11:05	Bright	59.000	24	66Alp Gem	1.5800	10200.	118	39362	No
74	GOM_TRA_1PNPDE20090909_231401_000000582082_00230_39362_7317.N1	09-SEP-2009 23:14:01	Twi_and_stray	57.500	170	27Eps Gem	3.0000	9700.0	115	39362	No
75	GOM_TRA_1PNPDE20090909_231531_000000652082_00230_39362_7318.N1	09-SEP-2009 23:15:31	Twi_and_stray	65.000	151	13Mu Gem	2.8900	3000.0	130	39362	No
76	GOM_TRA_1PNPDE20090909_231727_000000562082_00230_39362_7319.N1	09-SEP-2009 23:17:27	Twi_and_stray	55.500	44	24Gam Gem	1.9280	11000.	111	39362	No
77	GOM_TRA_1PNPDE20090909_231917_000000472082_00230_39362_7320.N1	09-SEP-2009 23:19:17	Twilight	47.000	8	10Alp CMi	0.40000	6500.0	94	39362	No
78	GOM_TRA_1PNPDE20090909_232743_000000612082_00230_39362_7440.N1	09-SEP-2009 23:27:43	Dark	61.000	1	9Alp CMa	-1.4400	11000.	122	39362	No
79	GOM_TRA_1PNPDE20090909_232919_000000532082_00230_39362_7441.N1	09-SEP-2009 23:29:19	Dark	53.000	47	2Bet CMa	1.9760	28000.	106	39362	No
80	GOM_TRA_1PNPDE20090909_233219_000000442082_00230_39362_7442.N1	09-SEP-2009 23:32:19	Dark	44.000	177	1Zet CMa	3.0220	26000.	88	39362	No
81	GOM_TRA_1PNPDE20090909_233535_000000472082_00230_39362_7443.N1	09-SEP-2009 23:35:35	Dark	47.000	108	Alp Col	2.6520	15200.	94	39362	No
82	GOM_TRA_1PNPDE20090909_234748_000000542082_00231_39363_7444.N1	09-SEP-2009 23:47:48	Dark	54.000	157	The1Eri	2.9060	9300.0	108	39363	No
83	GOM_TRA_1PNPDE20090909_235421_000000482082_00231_39363_7445.N1	09-SEP-2009 23:54:21	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	39363	No

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



4. Overview of dark signal processing per product

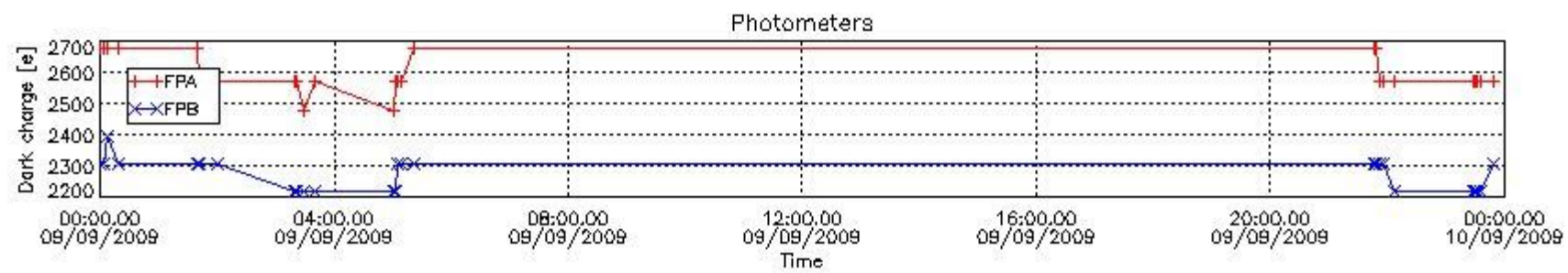
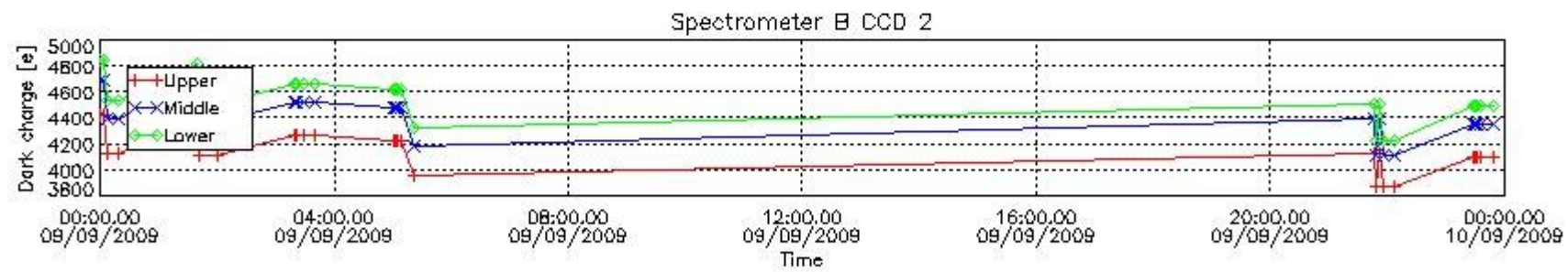
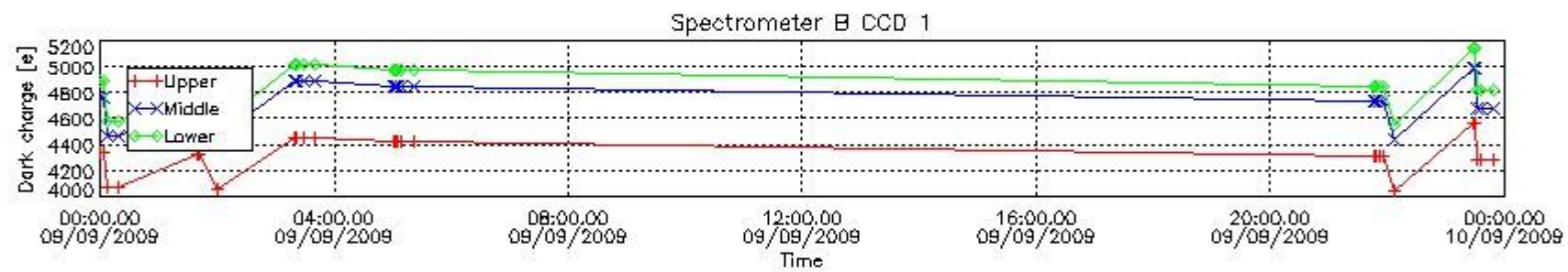
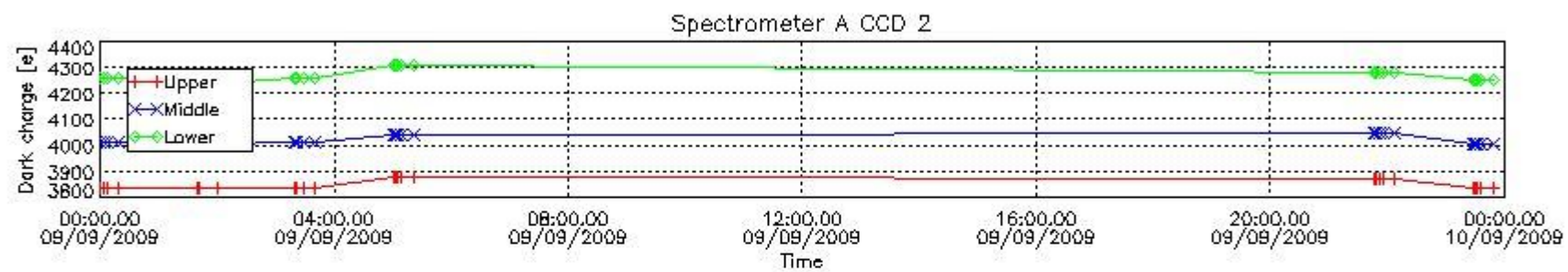
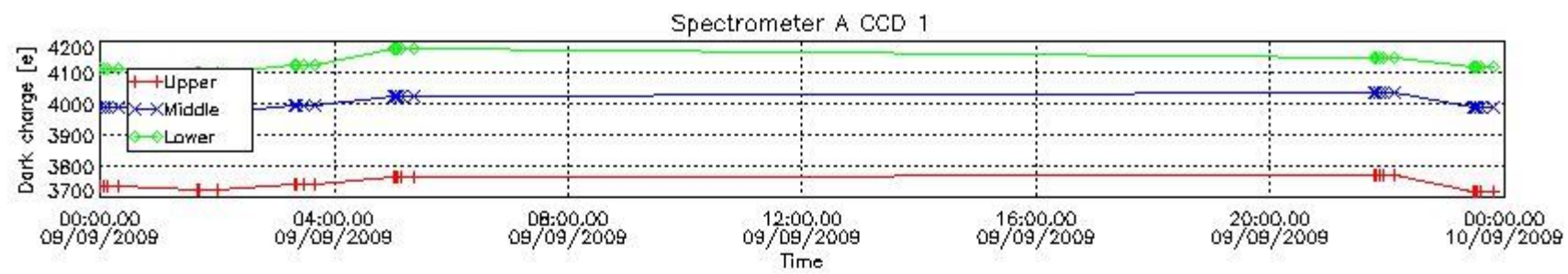
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090909_203308_000000462082_00229_39361_7160.N1	DC map used
GOM_TRA_1PNPDE20090909_205239_000000422082_00229_39361_7161.N1	DC map used
GOM_TRA_1PNPDE20090909_205652_000000422082_00229_39361_7162.N1	DC map used
GOM_TRA_1PNPDE20090909_210709_000000422082_00229_39361_7163.N1	DC map used
GOM_TRA_1PNPDE20090909_210906_000000422082_00229_39361_7164.N1	DC map used
GOM_TRA_1PNPDE20090909_212546_000000542082_00229_39361_7165.N1	DC map used
GOM_TRA_1PNPDE20090909_213029_000000422082_00229_39361_7166.N1	DC map used
GOM_TRA_1PNPDE20090909_213325_000000572082_00229_39361_7167.N1	DC map used
GOM_TRA_1PNPDE20090909_213454_000000702082_00229_39361_7168.N1	DC map used
GOM_TRA_1PNPDE20090909_213840_000000582082_00229_39361_7169.N1	DC map used

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



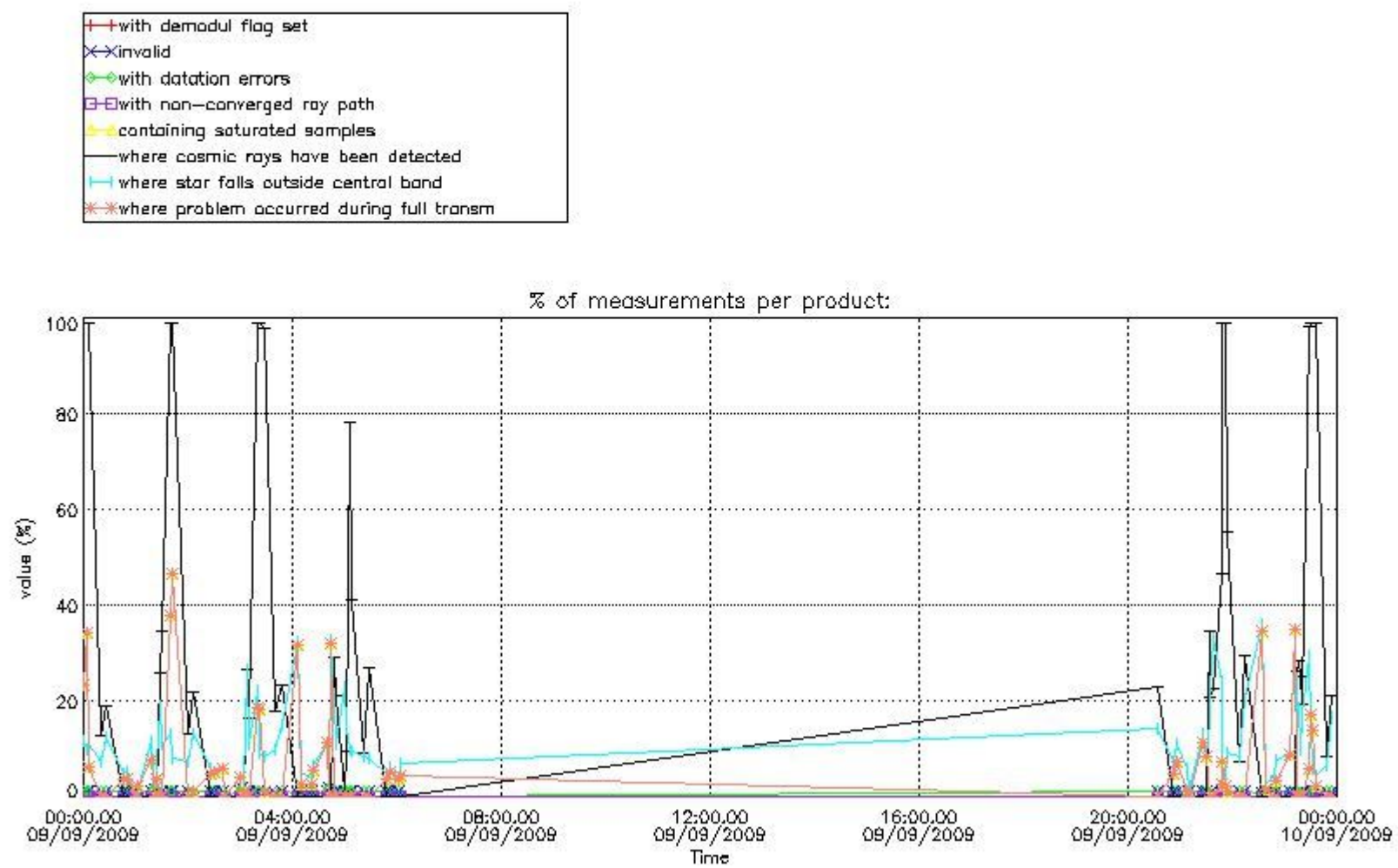
5. Demodulation flag and quality information monitoring

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.

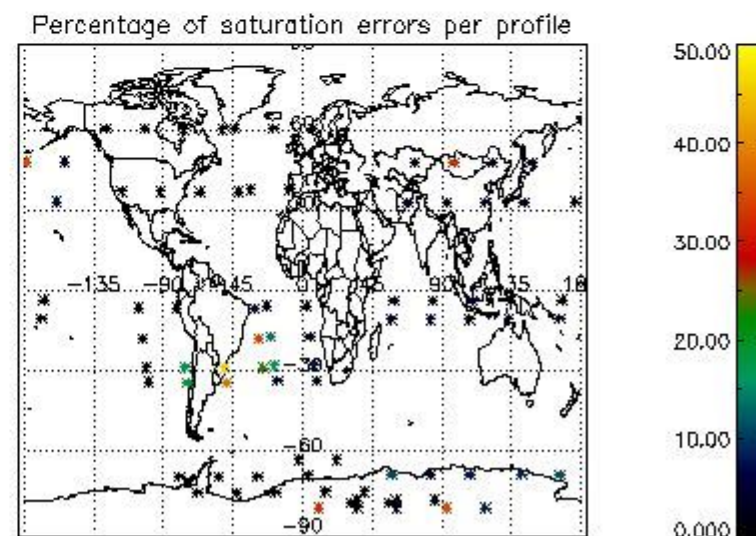
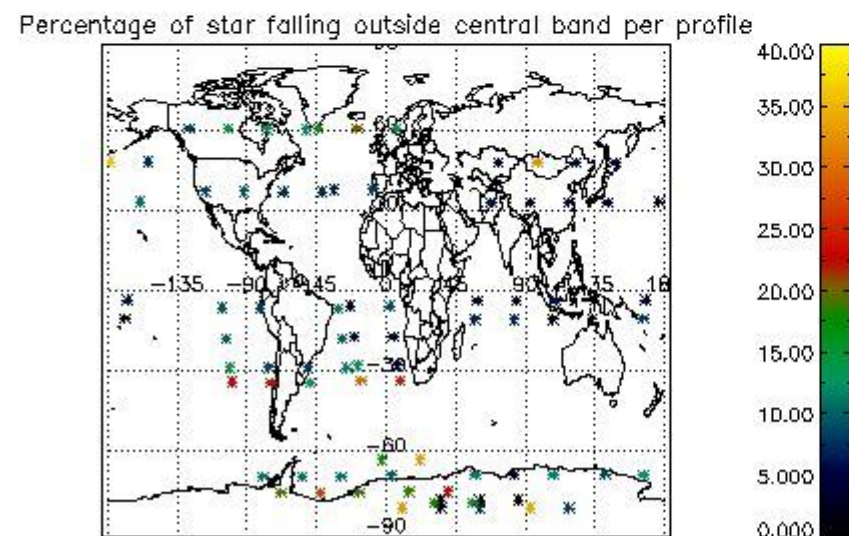
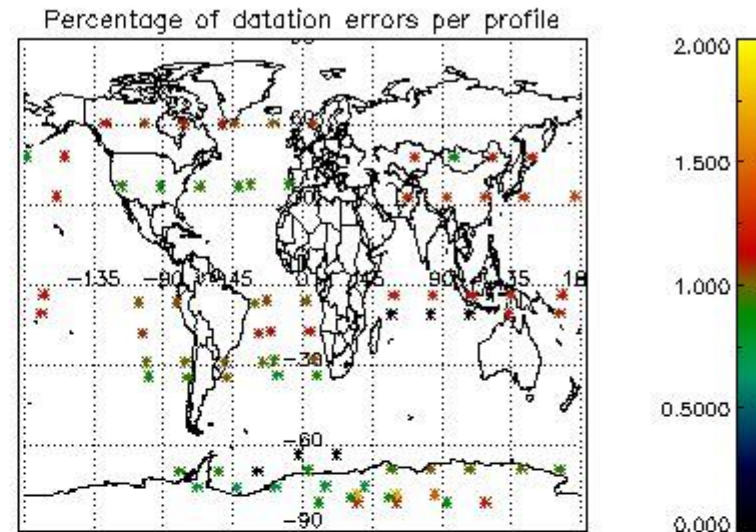
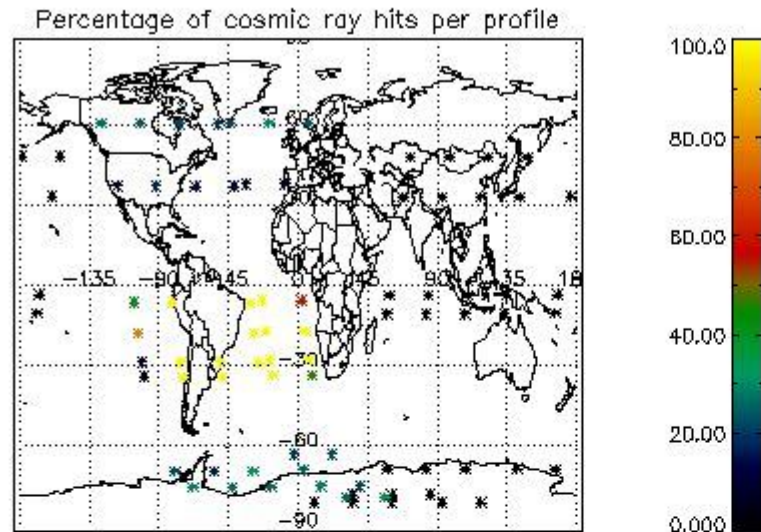
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	44.5783 %
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)



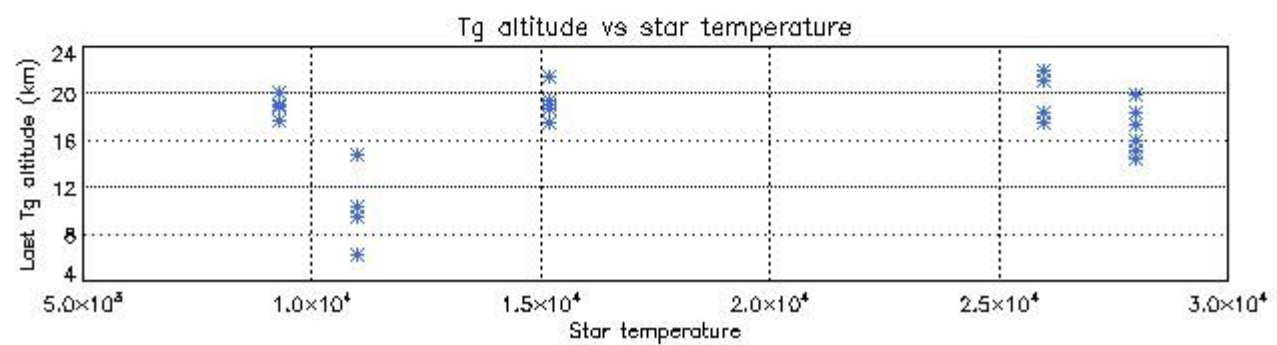
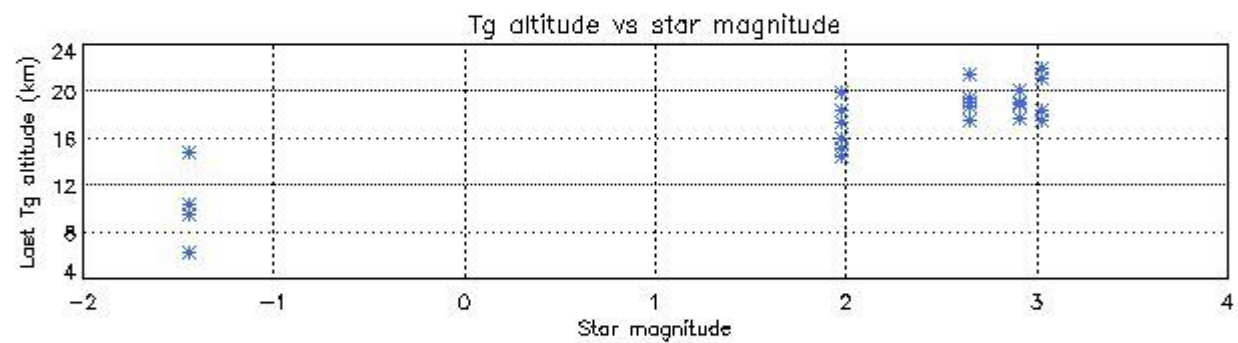
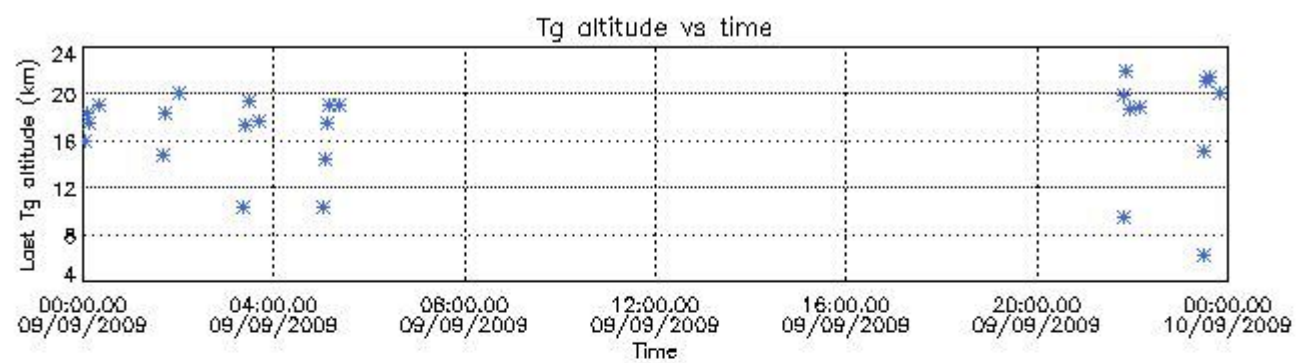
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.994	19.105	8.6027
St. deviation:	3.9753	6.0821	5.3250
Maximum:	22.010	28.915	12.368
Minimum:	6.2866	3.8472	4.8374
Number of data:	26.000	34.000	2.0000

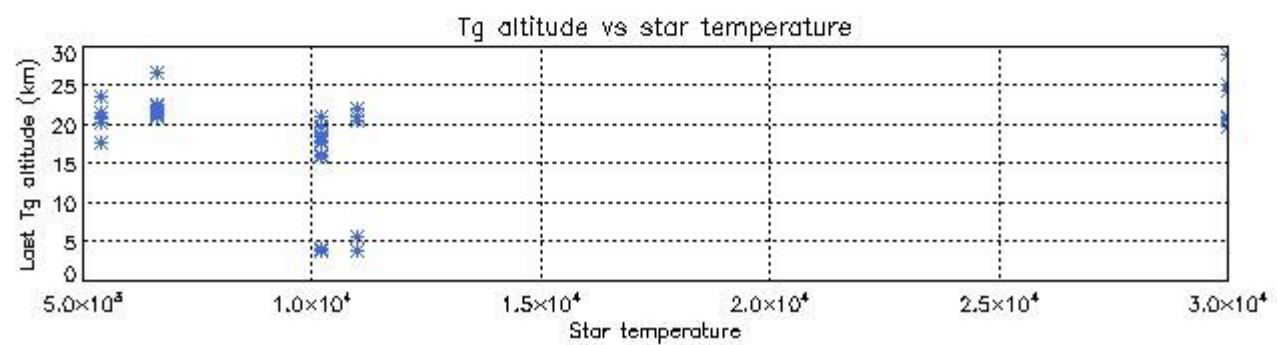
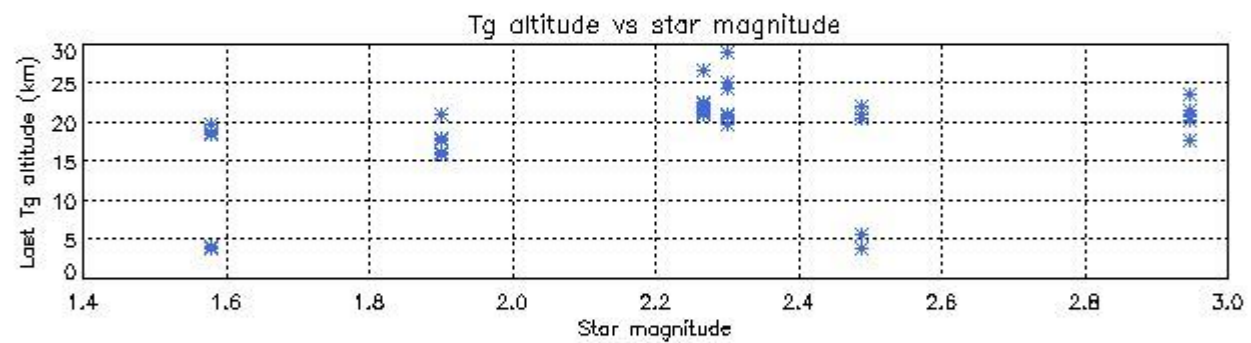
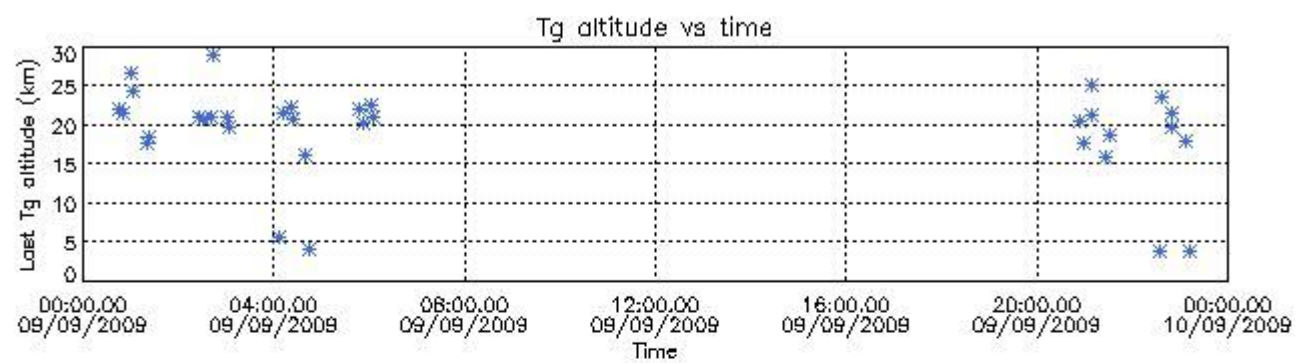
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



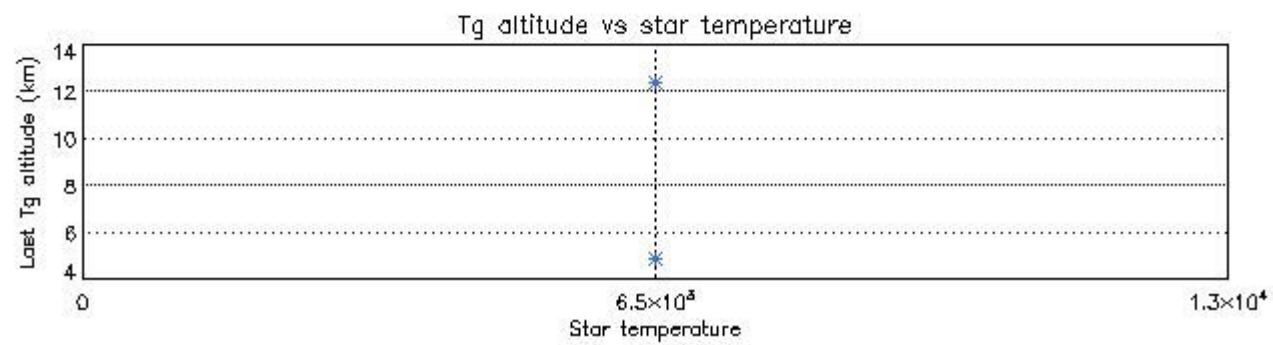
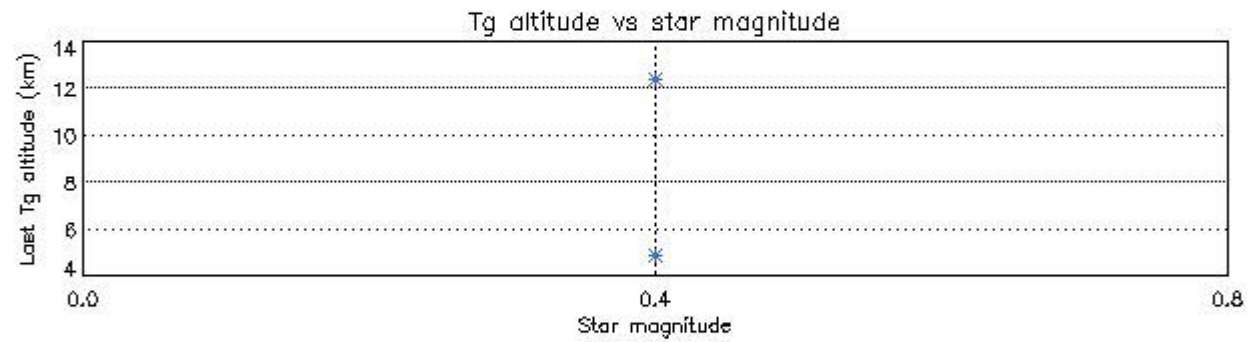
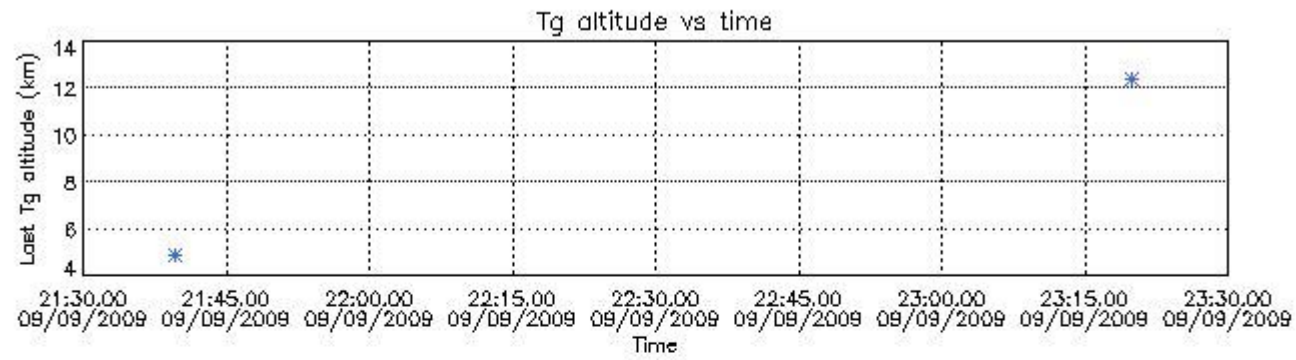
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

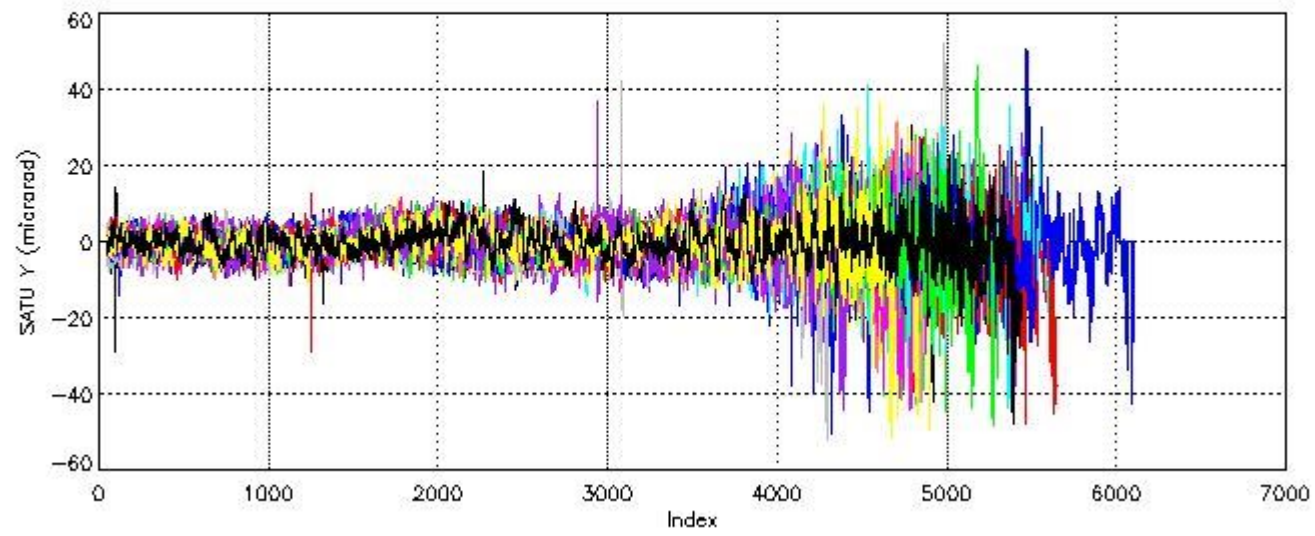
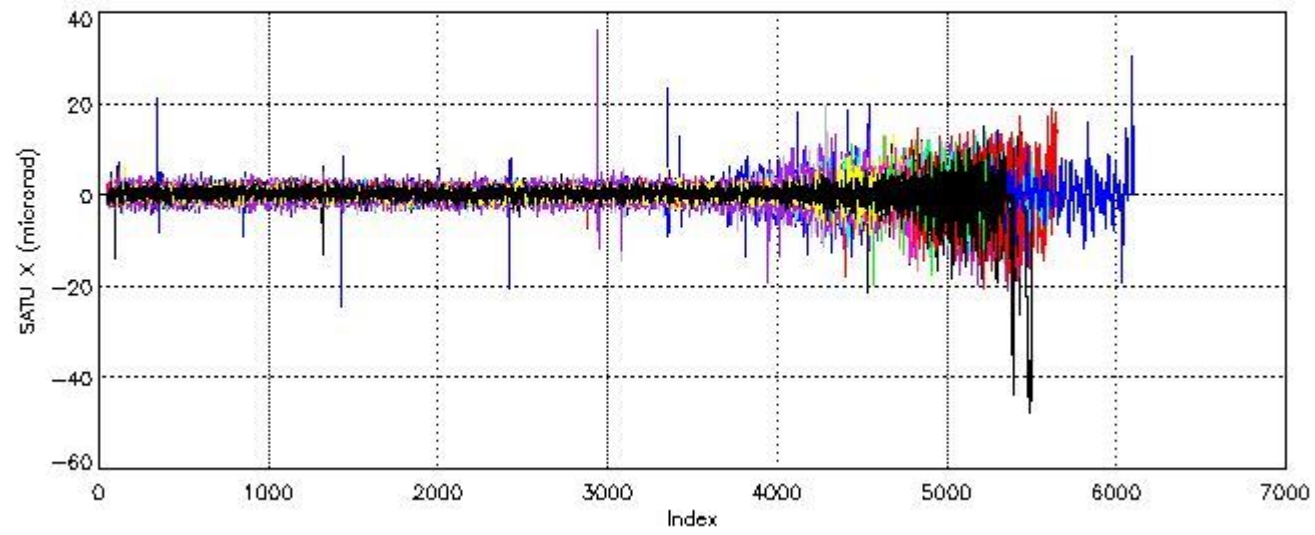


7. Star Acquisition and Tracking Unit (SATU)

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:	0.28342	-0.82225	0.25636	-0.60493
St. deviation:	0.82087	2.3145	0.79506	2.3271
Maximum:	21.000	14.400	4.2000	10.300
Minimum:	-14.100	-29.100	-3.5000	-10.600

Number of data:	30200.	30200.	34350.	34350.
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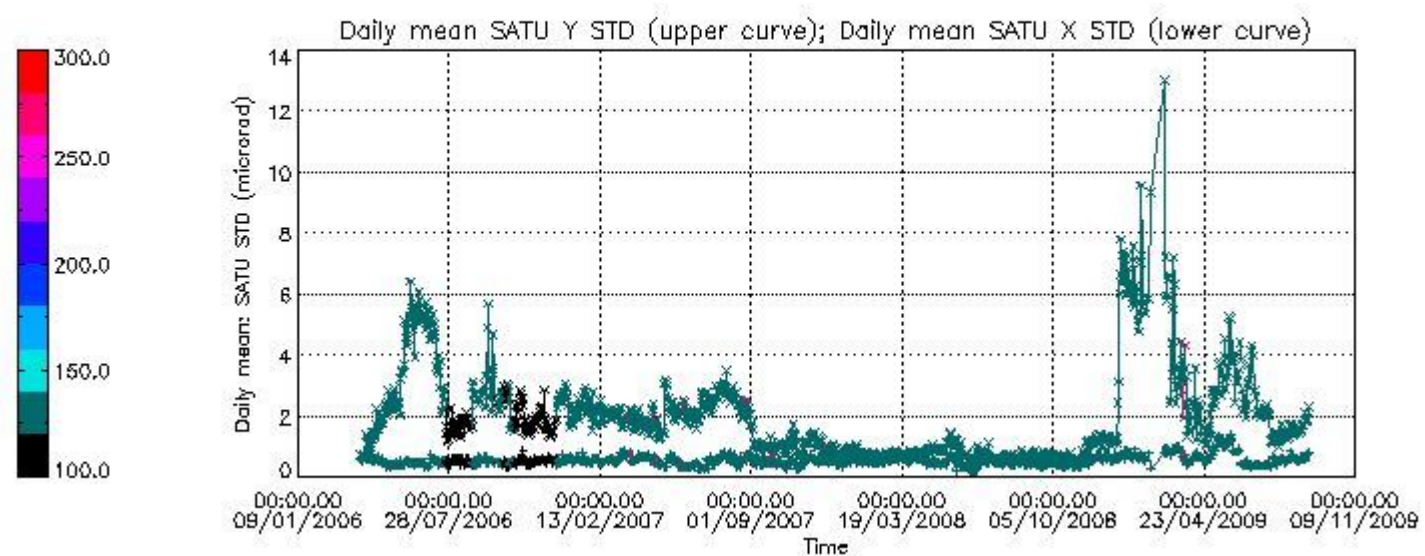
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

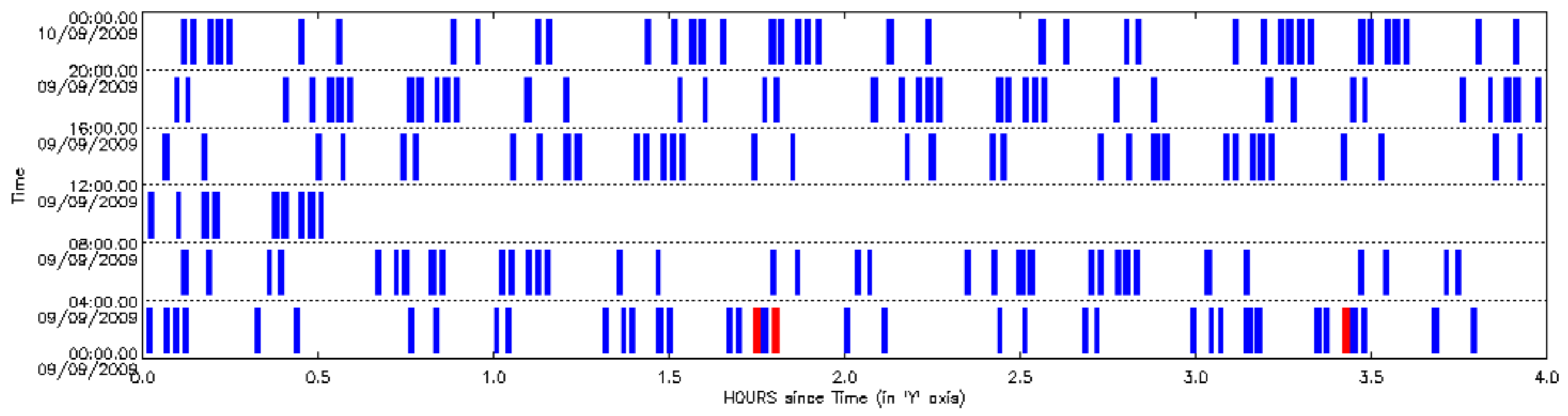
Lower curve: STD of SATU X axis

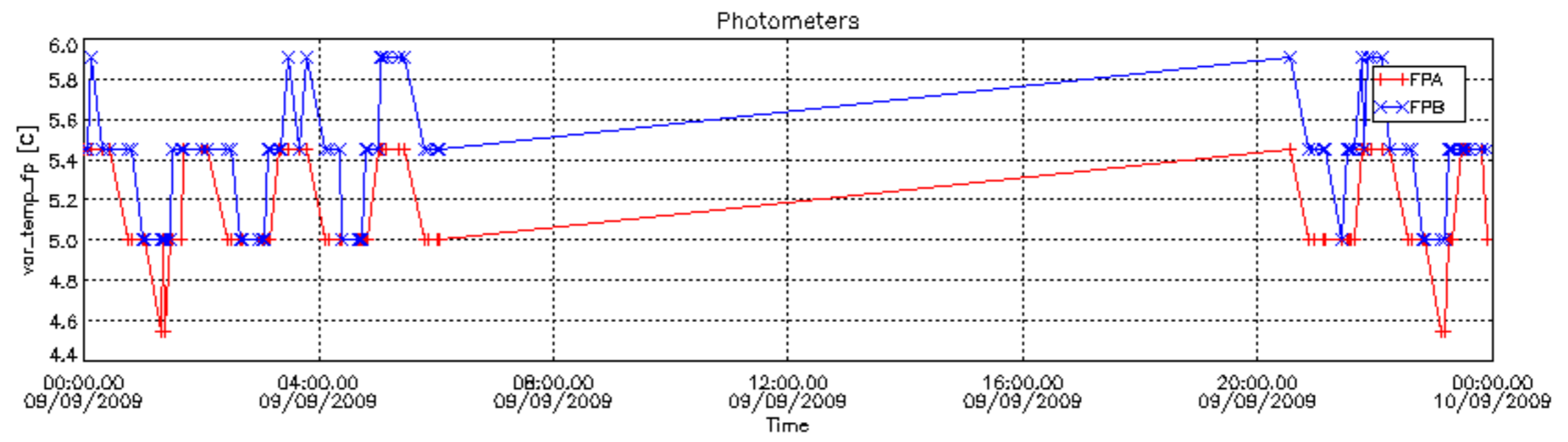
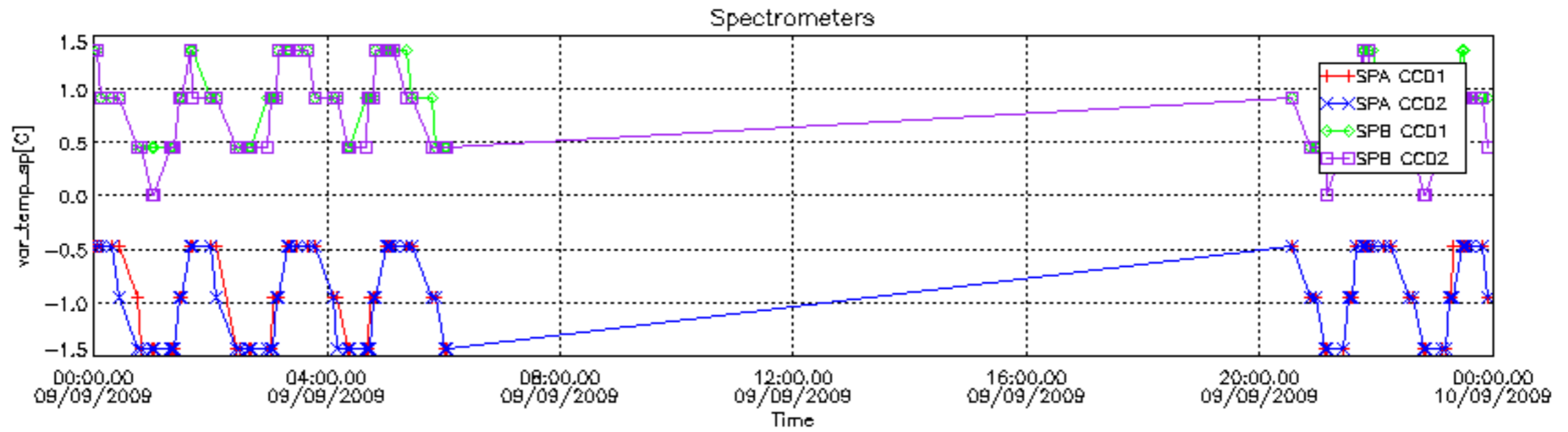


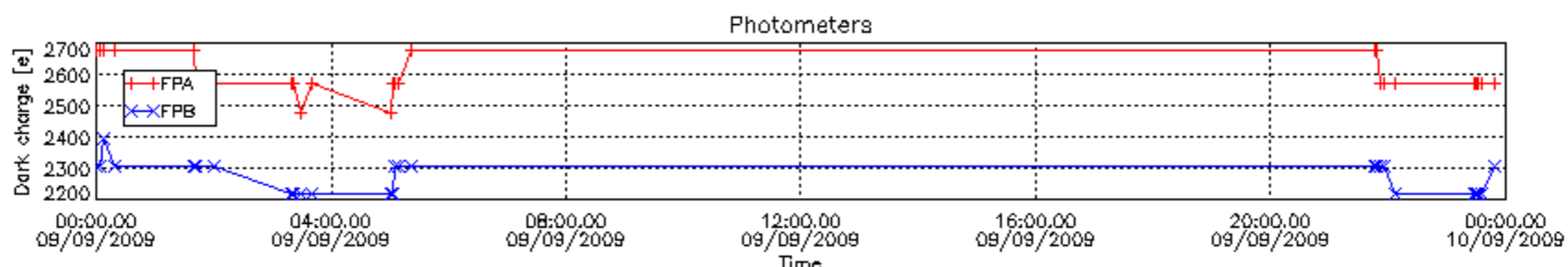
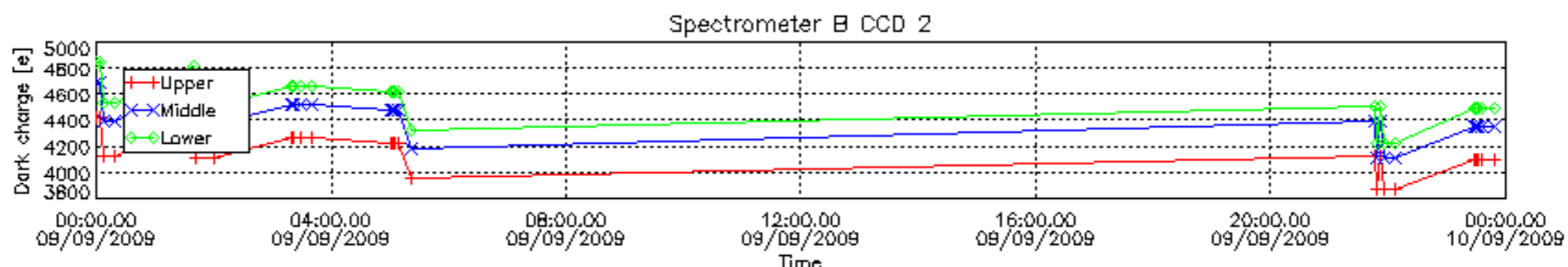
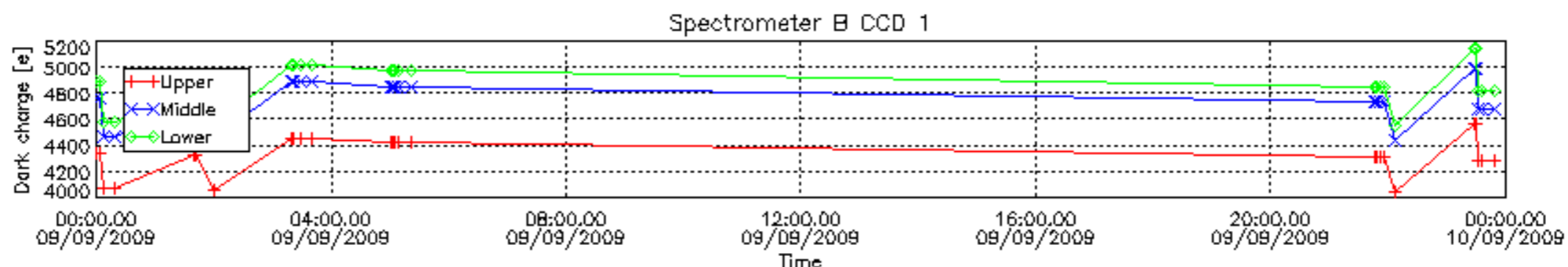
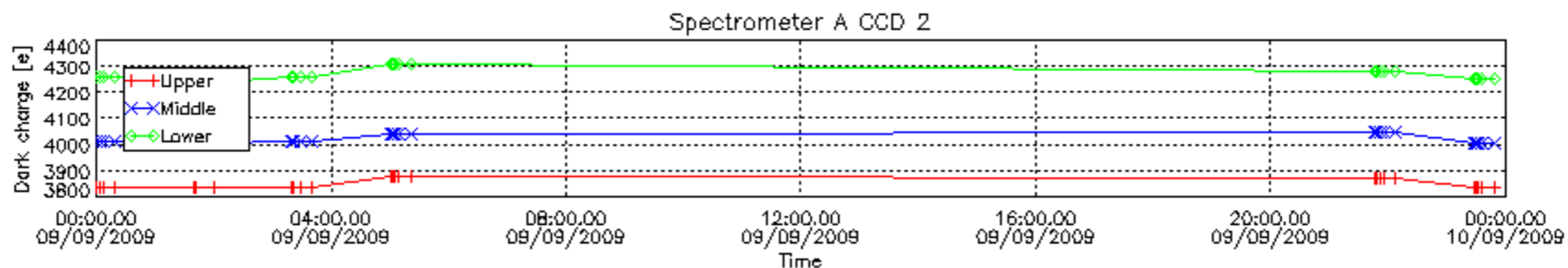
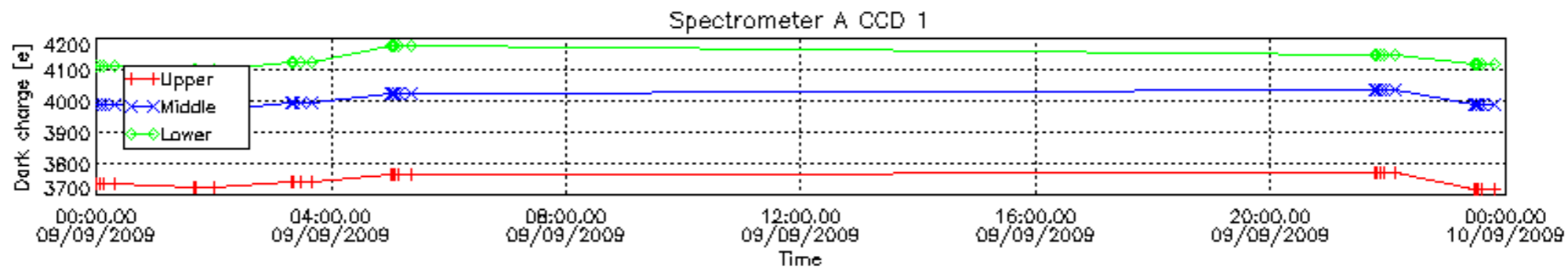
8. Auxiliary Data Files used for the production reported in section 2.4

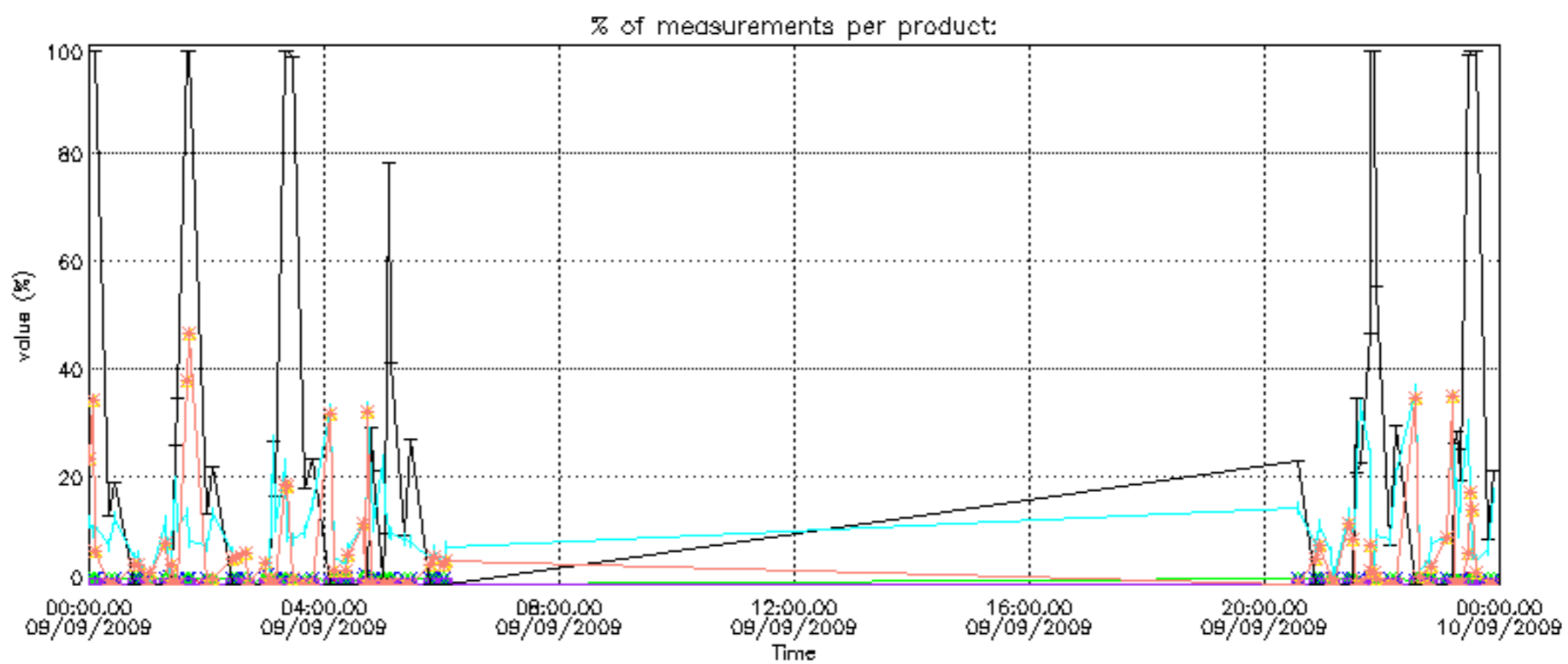
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	09-SEP-2009 00:00:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090907_104444_20090905_000000_20100101_000000	1	09-SEP-2009 00:00:42
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	09-SEP-2009 00:00:42
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-SEP-2009 00:00:42
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	09-SEP-2009 00:00:42
ECMWF_FILE	AUX_ECF_AXNECM20090908_064111_20090908_210000_20090909_090000	1	09-SEP-2009 00:00:42
ECMWF_FILE	AUX_ECF_AXNECM20090908_184115_20090909_030000_20090909_150000	37	09-SEP-2009 04:39:49
ECMWF_FILE	AUX_ECF_AXNECM20090909_064111_20090909_150000_20090910_030000	52	09-SEP-2009 20:33:08
ECMWF_FILE	AUX_ECF_AXNECM20090909_064112_20090909_210000_20090910_090000	62	09-SEP-2009 21:47:06
OPTIONAL_ECMWF_FILE	MISSING	1	09-SEP-2009 00:00:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090908_221456_000057382082_00215_39347_8721.N1	1	09-SEP-2009 00:00:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090908_235553_000054192082_00216_39348_8722.N1	15	09-SEP-2009 01:39:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090909_013132_000044632082_00217_39349_8723.N1	23	09-SEP-2009 02:59:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090909_025113_000054192082_00218_39350_8724.N1	37	09-SEP-2009 04:39:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090909_202833_000038252082_00229_39361_8726.N1	52	09-SEP-2009 20:33:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090909_213737_000060572082_00229_39361_8727.N1	78	09-SEP-2009 23:27:43

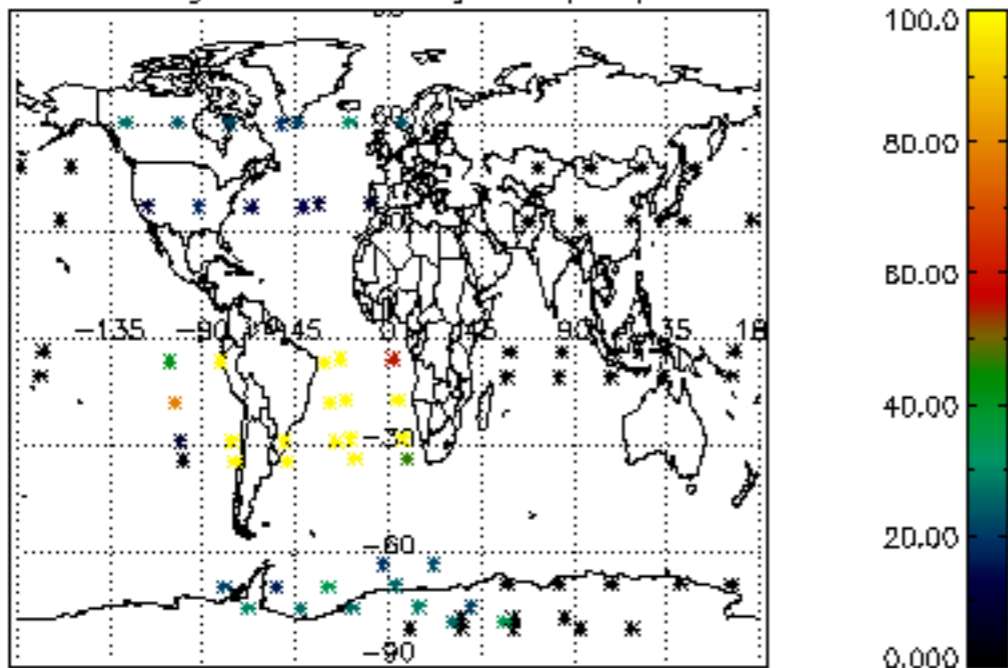




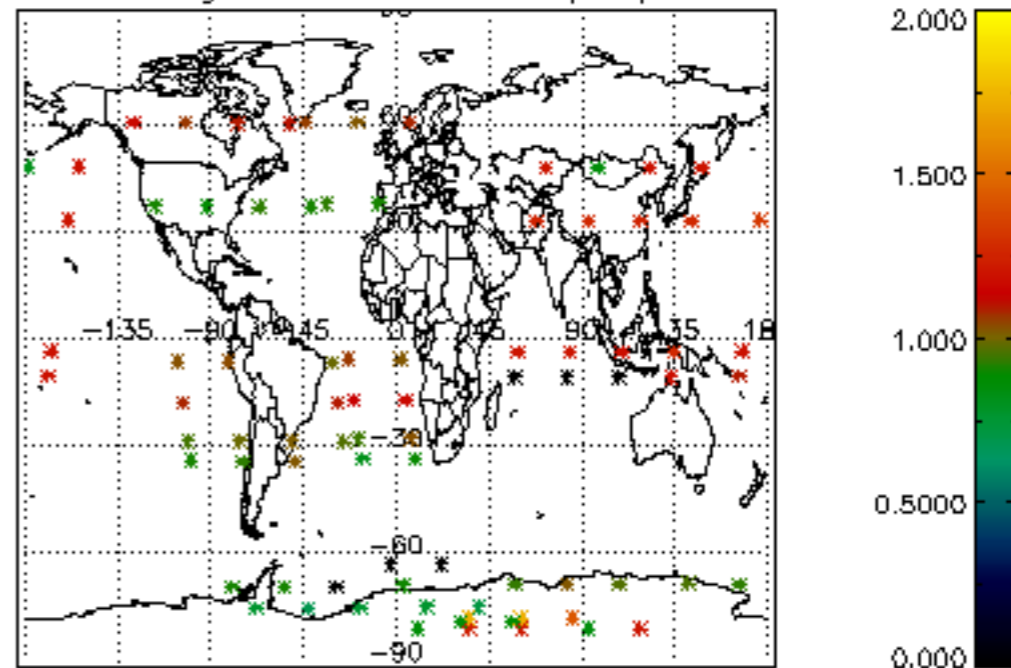




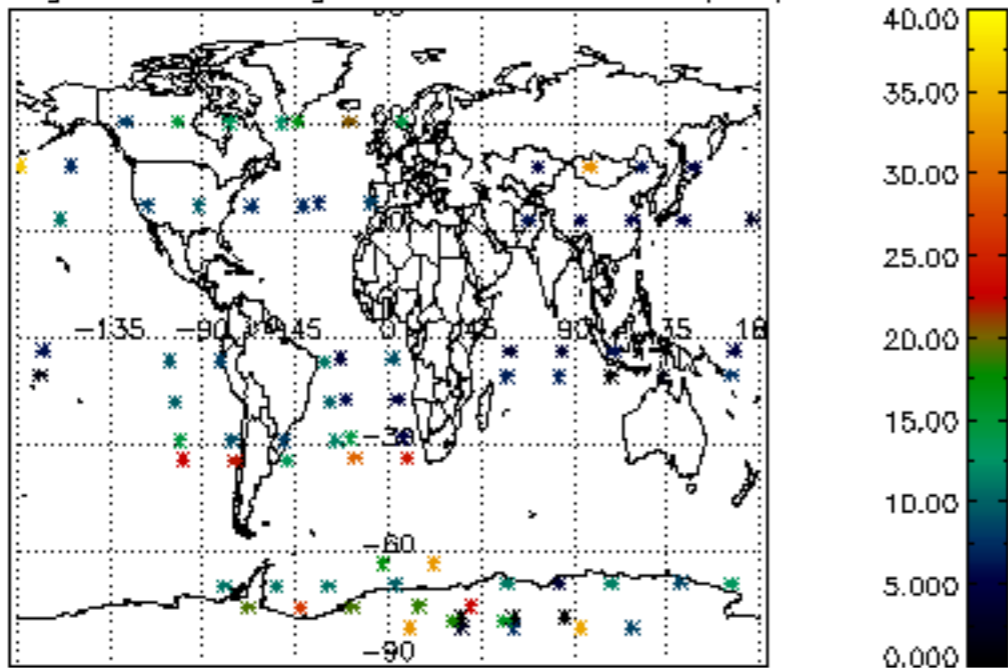
Percentage of cosmic ray hits per profile



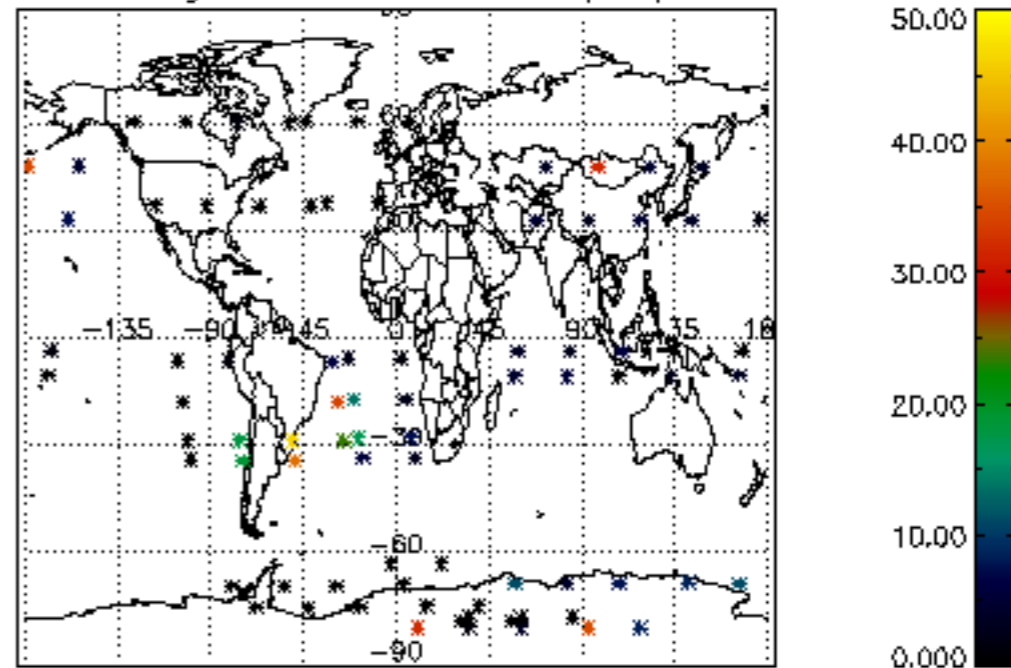
Percentage of datation errors per profile



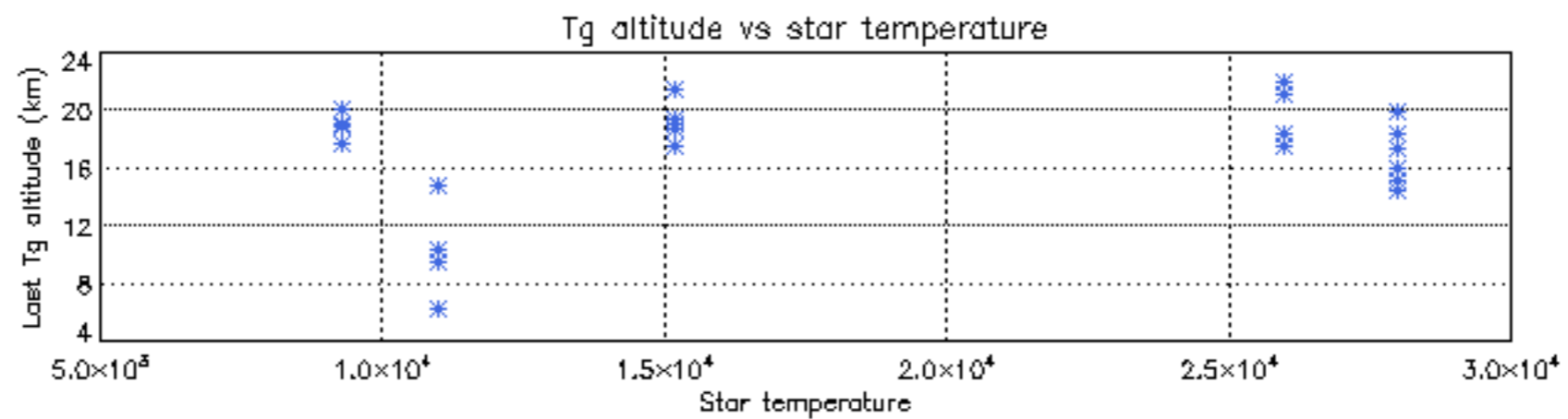
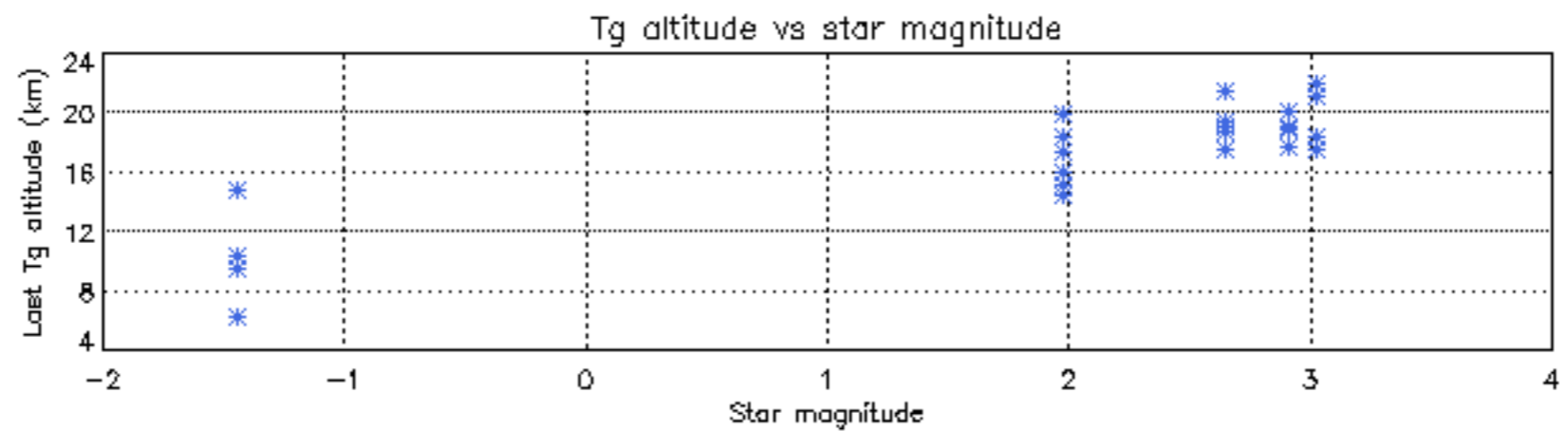
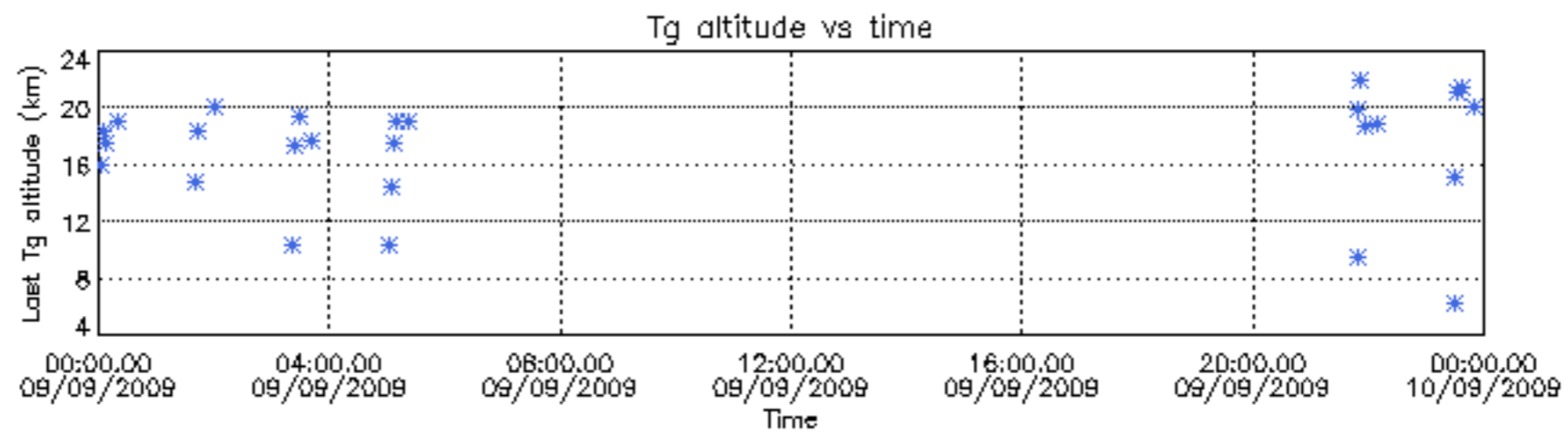
Percentage of star falling outside central band per profile



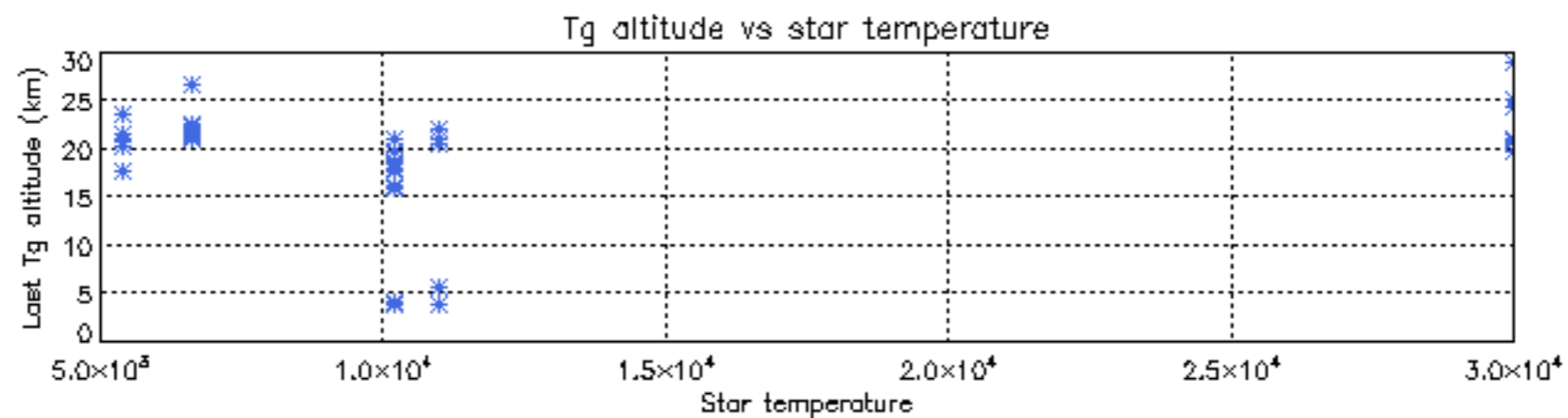
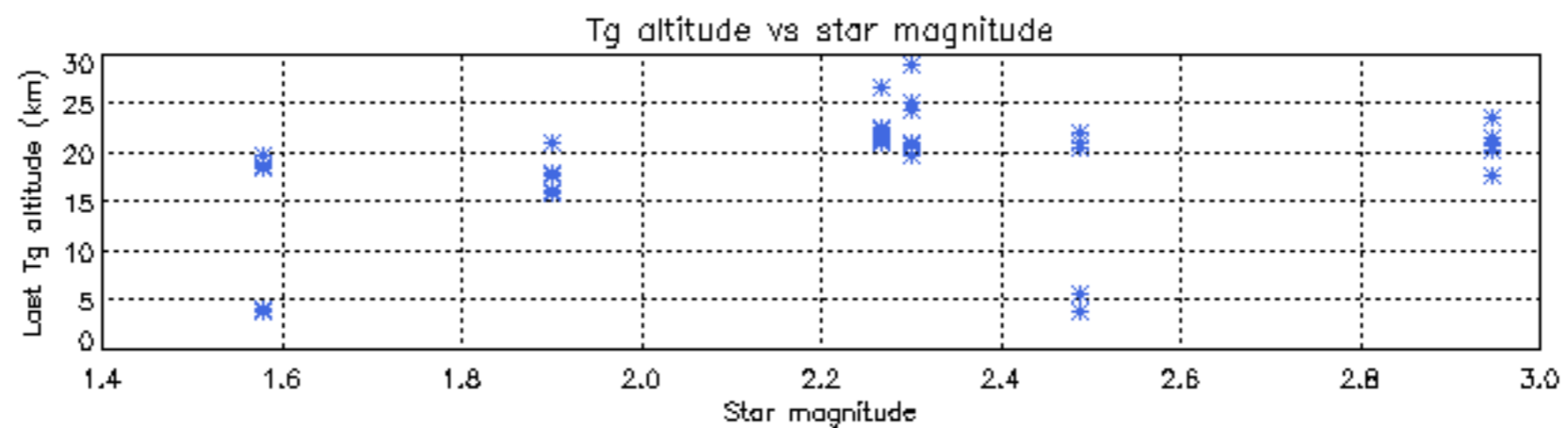
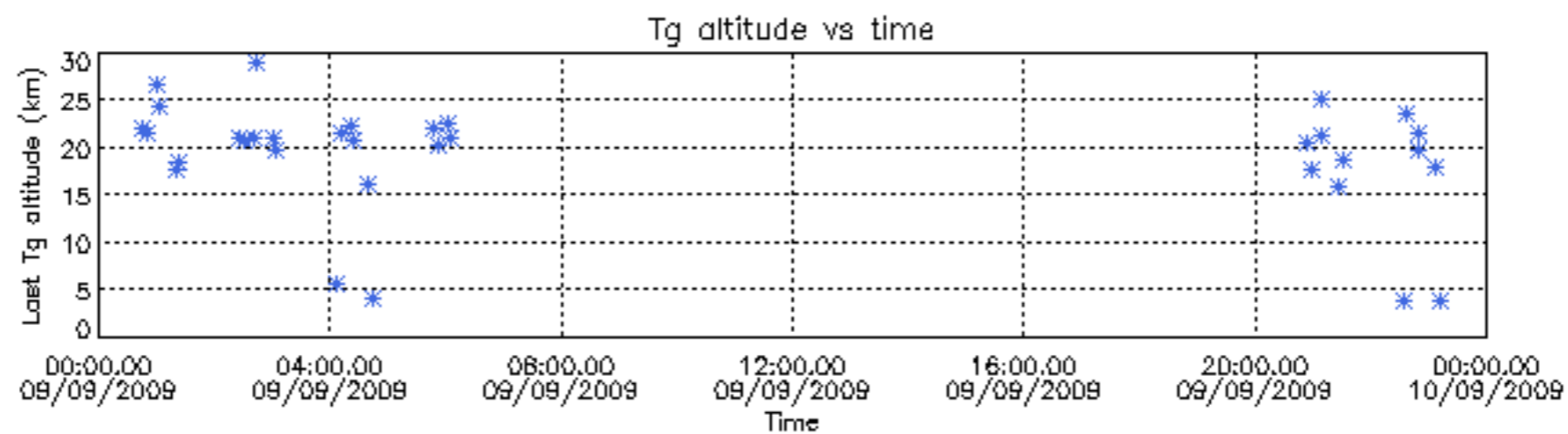
Percentage of saturation errors per profile



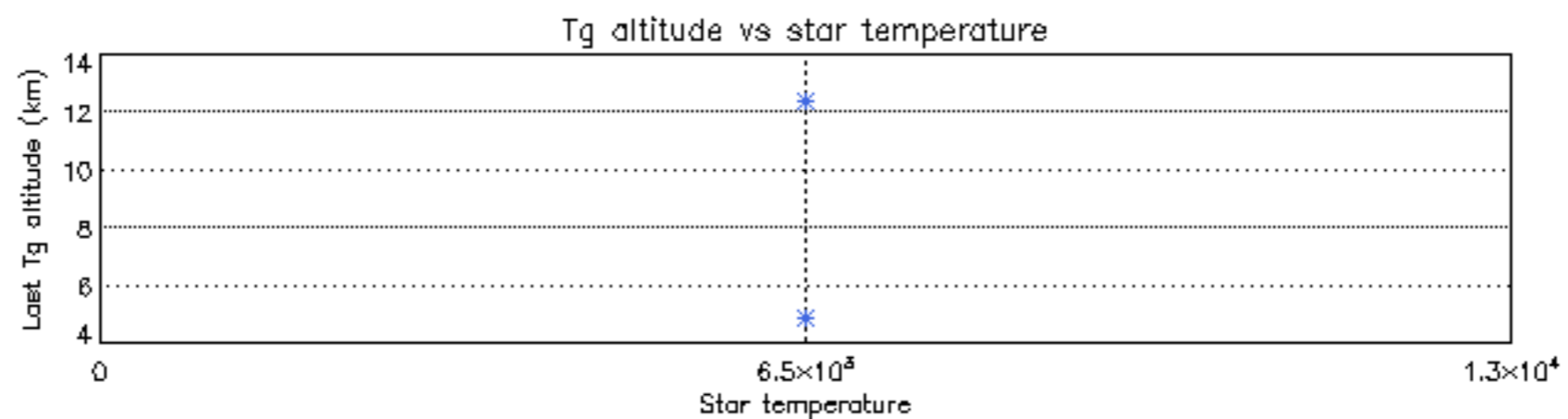
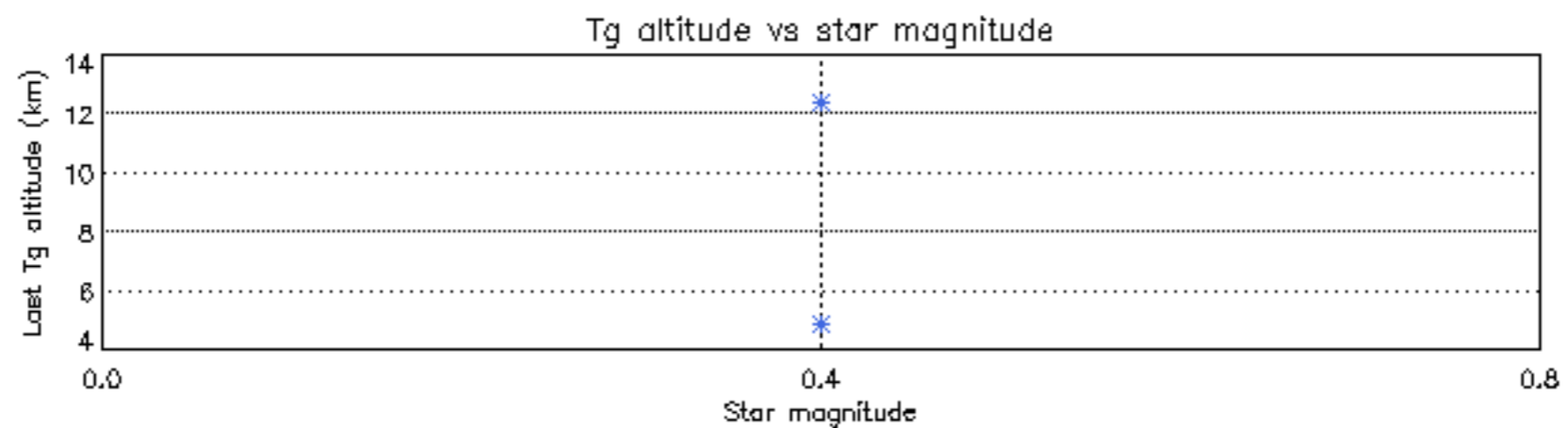
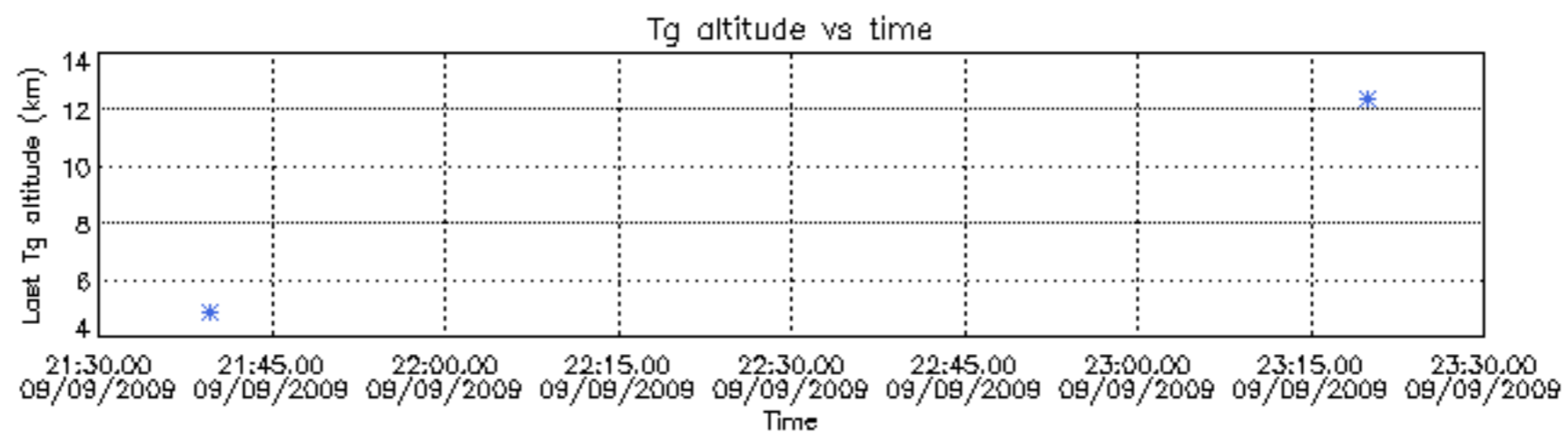
Tangent altitude at which the star is lost

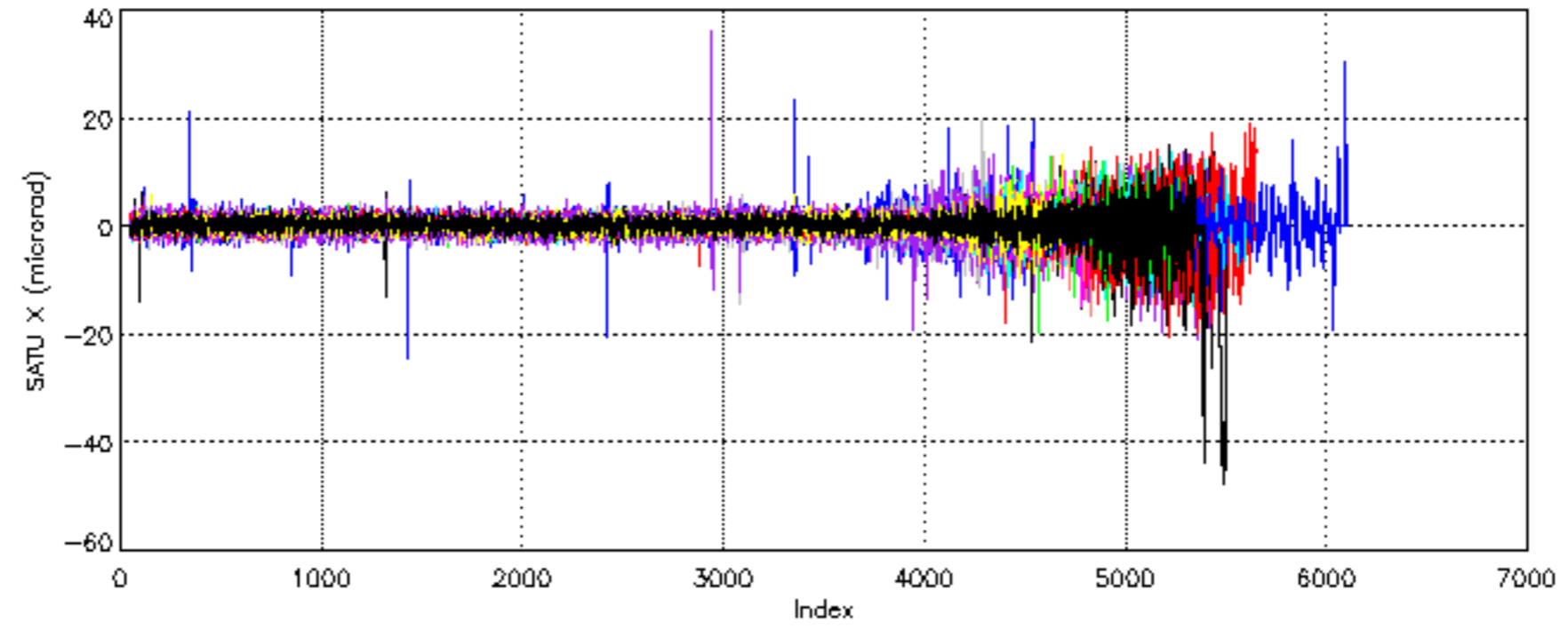


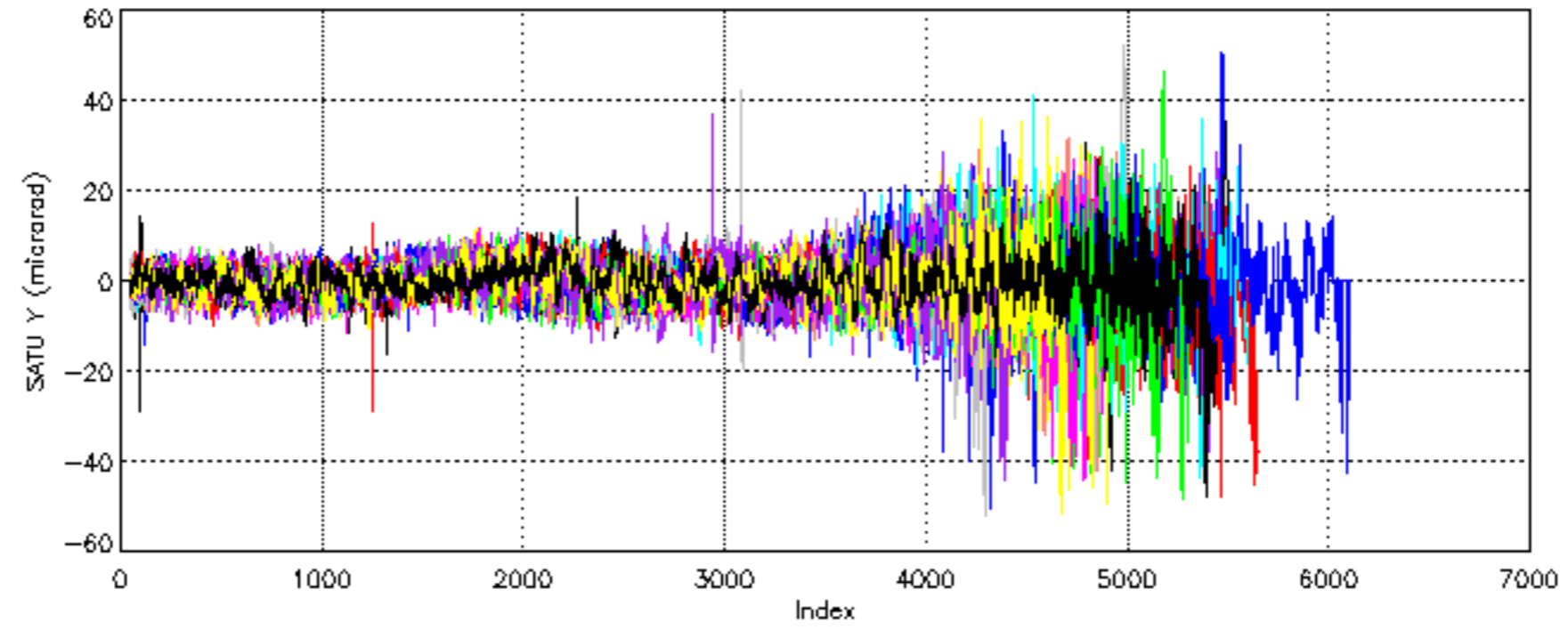
Tangent altitude at which the star is lost

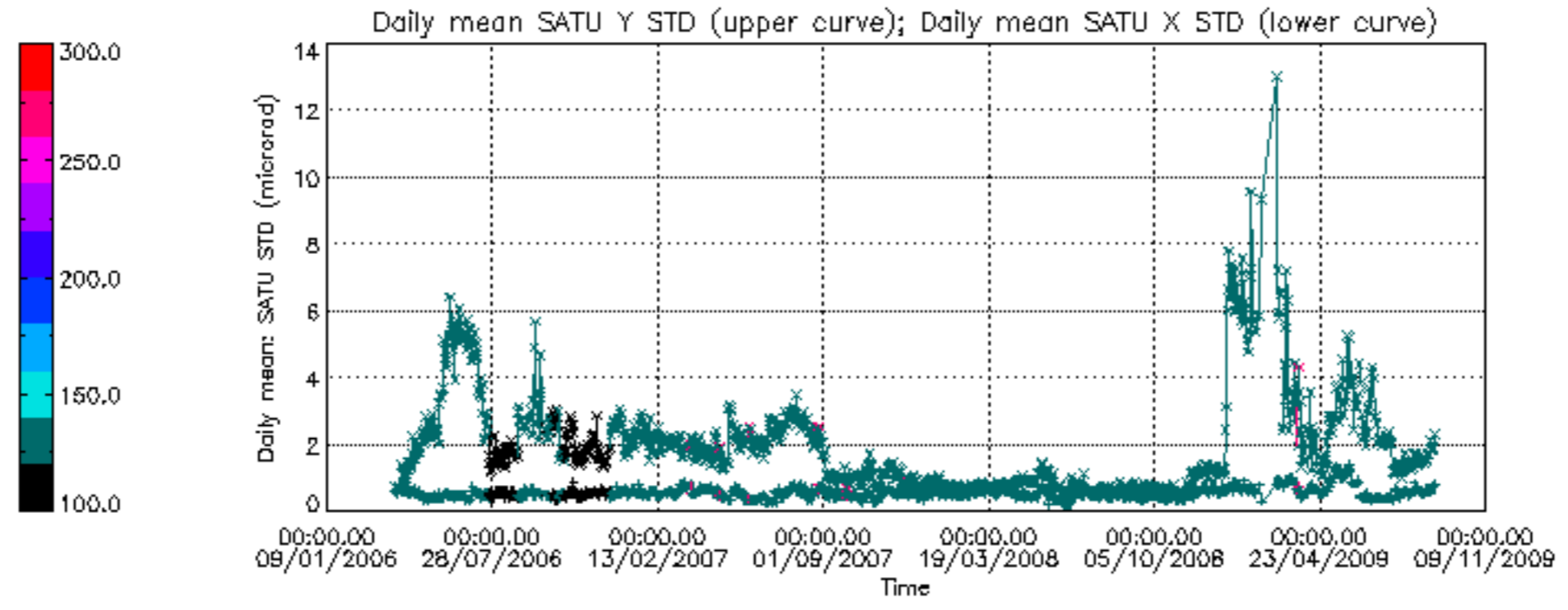


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090901_004836_000055572082_00102_39234_8472.N1

1; -717.2; 01-SEP-2009 00:48:36; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39234
 2; -585.8; 01-SEP-2009 00:50:47; Dark ; 48.5; 47; 2Bet CMa ; 1.98; 28000;occ; 97; 0;39234
 3; -413.8; 01-SEP-2009 00:53:39; Dark ; 51.0; 101; 11Alp Lep ; 2.58; 7000;occ; 102; 0;39234
 4; -237.7; 01-SEP-2009 00:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39234
 5; 487.5; 01-SEP-2009 01:08:40; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39235
 6; 962.2; 01-SEP-2009 01:16:35; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39235
 7; 1329.7; 01-SEP-2009 01:22:43; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;39235
 8; 2249.9; 01-SEP-2009 01:38:03; Bright; 47.5; 90; 54Alp Peg ; 2.49; 11000;occ; 95; 0;39235
 9; 2501.4; 01-SEP-2009 01:42:14; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39235
 10; 3142.8; 01-SEP-2009 01:52:56; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39235
 11; 3270.9; 01-SEP-2009 01:55:04; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39235
 12; 4155.8; 01-SEP-2009 02:09:49; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;39235
 13; 4378.2; 01-SEP-2009 02:13:31; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39235
 14; 4687.0; 01-SEP-2009 02:18:40; Dark ; 64.0; 151; 13Mu Gem ; 2.89; 3000;occ; 128; 0;39235
 15; 4792.9; 01-SEP-2009 02:20:26; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39235

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090901_022502_000042832082_00103_39235_8473.N1

1; -966.8; 01-SEP-2009 02:25:02; Dark ; 66.5; 14; 58Alp Ori ; 0.87; 3000;occ; 133; 0;39235
 2; -715.8; 01-SEP-2009 02:29:13; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39235
 3; -584.8; 01-SEP-2009 02:31:24; Dark ; 49.5; 47; 2Bet CMa ; 1.98; 28000;occ; 99; 0;39235
 4; -412.2; 01-SEP-2009 02:34:17; Dark ; 52.5; 101; 11Alp Lep ; 2.58; 7000;occ; 105; 0;39235
 5; -236.5; 01-SEP-2009 02:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39235
 6; 488.8; 01-SEP-2009 02:49:18; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39236
 7; 962.7; 01-SEP-2009 02:57:12; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39236
 8; 1330.1; 01-SEP-2009 03:03:19; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;39236
 9; 2249.4; 01-SEP-2009 03:18:38; Bright; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;39236
 10; 2500.7; 01-SEP-2009 03:22:50; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;39236
 11; 3142.5; 01-SEP-2009 03:33:31; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39236
 12; 3270.4; 01-SEP-2009 03:35:39; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39236

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090901_035024_000051962082_00104_39236_8474.N1

1; -1880.5; 01-SEP-2009 03:50:24; Bright; 58.5; 6; 13Alp Aur ; 0.08; 3400;occ; 117; 0;39236
 2; -1657.5; 01-SEP-2009 03:54:07; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39236
 3; -1348.6; 01-SEP-2009 03:59:16; Dark ; 53.5; 151; 13Mu Gem ; 2.89; 3000;occ; 107; 0;39236
 4; -1242.9; 01-SEP-2009 04:01:02; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;39236
 5; -965.8; 01-SEP-2009 04:05:39; Dark ; 74.0; 14; 58Alp Ori ; 0.87; 3000;occ; 148; 0;39236
 6; -714.7; 01-SEP-2009 04:09:50; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39236
 7; -584.2; 01-SEP-2009 04:12:01; Dark ; 49.0; 47; 2Bet CMa ; 1.98; 28000;occ; 98; 0;39236
 8; -411.4; 01-SEP-2009 04:14:53; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;39236
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 15; 3141.0; 01-SEP-2009 06:54:42; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;39238
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 4; 2495.9; 01-SEP-2009 20:08:44; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;39246


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8; 4378.4; 01-SEP-2009 20:40:07; Bright; 50.5; 107; 37The Aur ; 2.65; 11000;occ; 101; 0;39246
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9; 2243.6; 01-SEP-2009 21:45:08; Bright; 48.5; 90; 54Alp Peg ; 2.49; 11000;occ; 97; 0;39247
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8; -408.8; 01-SEP-2009 07:36:08; Dark ; 54.0; 101; 11Alp Lep ; 2.58; 7000;occ; 108; 0;39238
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3; 3140.5; 01-SEP-2009 08:35:17; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;39239
4; 3268.2; 01-SEP-2009 08:37:25; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39239
5; 4154.7; 01-SEP-2009 08:52:11; Bright; 59.5; 6; 13Alp Aur ; 0.08; 3400;occ; 119; 0;39239
6; 4378.4; 01-SEP-2009 08:55:55; Bright; 46.5; 107; 37The Aur ; 2.65; 11000;occ; 93; 0;39239
7; 4688.4; 01-SEP-2009 09:01:05; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;39239
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13; 4378.7; 04-SEP-2009 22:26:27; Bright; 52.0; 107; 37The Aur ; 2.65; 11000;occ; 104; 0;39290
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13; 4378.8; 05-SEP-2009 00:07:03; Bright; 73.0; 107; 37The Aur ; 2.65; 11000;occ; 146; 0;39291
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 3; 2421.4; 13-SEP-2009 13:48:04; Bright; 42.5; 93; 53Bet Peg ; 2.52; 3100;occ; 85; 0;39414
 4; 2561.8; 13-SEP-2009 13:50:24; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39414
 5; 3155.0; 13-SEP-2009 14:00:18; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39414
 6; 4174.7; 13-SEP-2009 14:17:17; Bright; 55.0; 42; 34Bet Aur ; 1.90; 10200;occ; 110; 0;39414
 7; 4476.9; 13-SEP-2009 14:22:20; Bright; 61.0; 24; 66Alp Gem ; 1.58; 10200;occ; 122; 0;39414
 8; 4883.5; 13-SEP-2009 14:29:06; Dark ; 63.5; 44; 24Gam Gem ; 1.93; 11000;occ; 127; 0;39414
 9; 4985.6; 13-SEP-2009 14:30:48; Dark ; 52.5; 8; 10Alp CMI ; 0.40; 6500;occ; 105; 0;39414
10; 5515.6; 13-SEP-2009 14:39:38; Dark ; 54.5; 1; 9Alp CMa ; -1.44; 11000;occ; 109; 0;39414
11; 5655.5; 13-SEP-2009 14:41:58; Dark ; 47.5; 23; 21Eps CMa ; 1.50; 26000;occ; 95; 0;39414
12; 5874.9; 13-SEP-2009 14:45:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39414
13; 6000.2; 13-SEP-2009 14:47:43; Dark ; 49.5; 108; Alp Col ; 2.65; 15200;occ; 99; 0;39414
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 4; 2561.0; 13-SEP-2009 15:30:59; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39415
 5; 3042.8; 13-SEP-2009 15:39:01; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39415
 6; 3154.5; 13-SEP-2009 15:40:53; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;39415
 7; 4174.7; 13-SEP-2009 15:57:53; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;39415
 8; 4477.4; 13-SEP-2009 16:02:56; Bright; 61.0; 24; 66Alp Gem ; 1.58; 10200;occ; 122; 0;39415
 9; 4884.1; 13-SEP-2009 16:09:43; Dark ; 62.0; 44; 24Gam Gem ; 1.93; 11000;occ; 124; 0;39415
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11; 5516.6; 13-SEP-2009 16:20:15; Dark ; 55.5; 1; 9Alp CMa ; -1.44; 11000;occ; 111; 0;39415
12; 5656.2; 13-SEP-2009 16:22:35; Dark ; 47.5; 23; 21Eps CMa ; 1.50; 26000;occ; 95; 0;39415
13; 5875.9; 13-SEP-2009 16:26:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39415
14; 6001.3; 13-SEP-2009 16:28:20; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;39415
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5; 3042.4; 13-SEP-2009 17:19:37; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39416
6; 3153.8; 13-SEP-2009 17:21:28; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39416
7; 4174.3; 13-SEP-2009 17:38:29; Bright; 52.5; 42; 34Bet Aur ; 1.90; 10200;occ; 105; 0;39416
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15; 6002.5; 13-SEP-2009 18:08:57; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;39416
16; 6731.3; 13-SEP-2009 18:21:06; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39416

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3; 2420.4; 13-SEP-2009 18:49:51; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39417
4; 2559.5; 13-SEP-2009 18:52:10; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39417
5; 3041.8; 13-SEP-2009 19:00:12; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39417
6; 3153.0; 13-SEP-2009 19:02:03; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39417
7; 4173.9; 13-SEP-2009 19:19:04; Bright; 63.0; 42; 34Bet Aur ; 1.90; 10200;occ; 126; 0;39417
8; 4477.4; 13-SEP-2009 19:24:08; Bright; 61.0; 24; 66Alp Gem ; 1.58; 10200;occ; 122; 0;39417
9; 4664.3; 13-SEP-2009 19:27:15; Dark ; 59.5; 170; 27Eps Gem ; 3.00; 9700;occ; 119; 0;39417
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11; 4987.2; 13-SEP-2009 19:32:38; Dark ; 50.5; 8; 10Alp CMi ; 0.40; 6500;occ; 101; 0;39417
12; 5518.5; 13-SEP-2009 19:41:29; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;39417
13; 5657.7; 13-SEP-2009 19:43:48; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;39417
14; 5877.6; 13-SEP-2009 19:47:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39417
15; 6003.9; 13-SEP-2009 19:49:34; Dark ; 49.5; 108; Alp Col ; 2.65; 15200;occ; 99; 0;39417
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3; -155.7; 14-SEP-2009 00:49:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39420
4; -28.5; 14-SEP-2009 00:51:26; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;39420
5; 699.4; 14-SEP-2009 01:03:33; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39421
6; 1523.3; 14-SEP-2009 01:17:17; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;39421
7; 2184.8; 14-SEP-2009 01:28:19; Bright; 58.0; 90; 54Alp Peg ; 2.49; 11000;occ; 116; 0;39421
8; 2419.2; 14-SEP-2009 01:32:13; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;39421
9; 2556.3; 14-SEP-2009 01:34:30; Bright; 49.5; 58; 21Alp And ; 2.07; 11000;occ; 99; 0;39421
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11; 3150.7; 14-SEP-2009 01:44:25; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39421
12; 4172.8; 14-SEP-2009 02:01:27; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;39421
13; 4478.1; 14-SEP-2009 02:06:32; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;39421
14; 4665.4; 14-SEP-2009 02:09:39; Dark ; 63.0; 170; 27Eps Gem ; 3.00; 9700;occ; 126; 0;39421
15; 4888.2; 14-SEP-2009 02:13:22; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;39421
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3; -154.8; 14-SEP-2009 02:29:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39421
4; -27.3; 14-SEP-2009 02:32:03; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;39421
5; 700.4; 14-SEP-2009 02:44:10; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39422
6; 1523.6; 14-SEP-2009 02:57:53; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39422
7; 2184.5; 14-SEP-2009 03:08:54; Bright; 41.0; 90; 54Alp Peg ; 2.49; 11000;occ; 82; 0;39422
8; 2418.8; 14-SEP-2009 03:12:49; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39422
9; 2555.5; 14-SEP-2009 03:15:05; Bright; 72.0; 58; 21Alp And ; 2.07; 11000;occ; 144; 0;39422
10; 3039.6; 14-SEP-2009 03:23:09; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39422
11; 3150.2; 14-SEP-2009 03:25:00; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39422

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3; -1370.3; 14-SEP-2009 03:50:16; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39422
4; -1147.2; 14-SEP-2009 03:53:59; Dark ; 32.0; 44; 24Gam Gem ; 1.93; 11000;occ; 64; 0;39422


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6; -512.6; 14-SEP-2009 04:04:33; Dark ; 56.5; 1; 9Alp CMA ; -1.44; 11000;occ; 113; 0;39422
7; -374.4; 14-SEP-2009 04:06:51; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39422
8; -153.8; 14-SEP-2009 04:10:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39422
9; -26.2; 14-SEP-2009 04:12:40; Dark ; 49.5; 108; Alp Col ; 2.65; 15200;occ; 99; 0;39422
10; 701.5; 14-SEP-2009 04:24:47; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39423
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12; 2184.0; 14-SEP-2009 04:49:30; Bright; 58.0; 90; 54Alp Peg ; 2.49; 11000;occ; 116; 0;39423
13; 2418.6; 14-SEP-2009 04:53:24; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;39423
14; 2554.9; 14-SEP-2009 04:55:41; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39423
15; 3038.9; 14-SEP-2009 05:03:45; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39423
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2; -1557.7; 14-SEP-2009 05:27:44; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;39423
3; -1369.8; 14-SEP-2009 05:30:52; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39423
4; -1146.6; 14-SEP-2009 05:34:35; Dark ; 32.0; 44; 24Gam Gem ; 1.93; 11000;occ; 64; 0;39423
5; -1046.1; 14-SEP-2009 05:36:16; Dark ; 57.5; 8; 10Alp CMI ; 0.40; 6500;occ; 115; 0;39423
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8; -152.9; 14-SEP-2009 05:51:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39423
9; -24.8; 14-SEP-2009 05:53:17; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39423
10; 702.3; 14-SEP-2009 06:05:24; Dark ; 56.5; 157; The1Eri ; 2.91; 9300;occ; 113; 0;39424
11; 1523.9; 14-SEP-2009 06:19:06; Dark ; 59.5; 52; 16Bet Cet ; 2.04; 4500;occ; 119; 0;39424
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13; 2284.9; 14-SEP-2009 06:31:47; Bright; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;39424
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16; 3038.5; 14-SEP-2009 06:44:20; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39424
17; 3148.9; 14-SEP-2009 06:46:11; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39424
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3; 2279.8; 14-SEP-2009 19:56:29; Bright; 56.0; 140; 88Gam Peg ; 2.83; 26000;occ; 112; 0;39432
4; 2416.0; 14-SEP-2009 19:58:45; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39432
5; 2548.0; 14-SEP-2009 20:00:57; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39432
6; 3034.7; 14-SEP-2009 20:09:04; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39432
7; 3144.4; 14-SEP-2009 20:10:54; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39432
8; 4479.4; 14-SEP-2009 20:33:09; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;39432
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3; -144.8; 14-SEP-2009 20:56:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39432
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5; 711.7; 14-SEP-2009 21:10:57; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39433
6; 1525.1; 14-SEP-2009 21:24:30; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39433
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12; 3143.9; 14-SEP-2009 21:51:29; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39433
13; 4479.3; 14-SEP-2009 22:13:44; Bright; 40.5; 24; 66Alp Gem ; 1.58; 10200;occ; 81; 0;39433
14; 4669.5; 14-SEP-2009 22:16:55; Dark ; 64.5; 170; 27Eps Gem ; 3.00; 9700;occ; 129; 0;39433
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3; -143.9; 14-SEP-2009 22:37:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39433
4; -13.0; 14-SEP-2009 22:39:28; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;39433
5; 712.9; 14-SEP-2009 22:51:34; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39434
6; 1525.1; 14-SEP-2009 23:05:06; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39434
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 9; 703.5; 14-SEP-2009 07:46:01; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39425
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 7; 3146.3; 14-SEP-2009 15:09:08; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39429
 8; 4170.6; 14-SEP-2009 15:26:12; Bright; 31.0; 42; 34Bet Aur ; 1.90; 10200;occ; 62; 0;39429
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 10; 4668.4; 14-SEP-2009 15:34:30; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39429
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 12; 5530.4; 14-SEP-2009 15:48:52; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;39429
 13; 5667.2; 14-SEP-2009 15:51:08; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;39429
 14; 5888.4; 14-SEP-2009 15:54:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39429
 15; 6018.2; 14-SEP-2009 15:57:00; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39429
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2; 2983.0; 23-SEP-2009 15:23:37; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39558
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3; 2459.8; 25-SEP-2009 22:34:40; Bright; 34.0; 58; 21Alp And ; 2.07; 11000;occ; 68; 0;39591
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2; 2971.6; 26-SEP-2009 00:23:47; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;39592
3; 3061.3; 26-SEP-2009 00:25:17; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;39592
4; 4503.1; 26-SEP-2009 00:49:19; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;39592
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4; 859.5; 26-SEP-2009 01:29:11; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;39593
5; 1547.3; 26-SEP-2009 01:40:39; Dark ; 38.0; 52; 16Bet Cet ; 2.04; 4500;occ; 76; 0;39593
6; 2203.8; 26-SEP-2009 01:51:35; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;39593
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8; 2715.3; 26-SEP-2009 02:00:07; Bright; 51.5; 53; 43Bet And ; 2.05; 3300;occ; 103; 0;39593
9; 2971.2; 26-SEP-2009 02:04:23; Bright; 23.0; 74; 11Bet Cas ; 2.27; 6600;occ; 46; 0;39593
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5; 17.9; 26-SEP-2009 02:55:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39594
6; 202.0; 26-SEP-2009 02:58:49; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;39594
7; 860.8; 26-SEP-2009 03:09:48; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;39594
8; 1547.7; 26-SEP-2009 03:21:15; Dark ; 38.5; 52; 16Bet Cet ; 2.04; 4500;occ; 77; 0;39594
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4; -210.9; 26-SEP-2009 04:32:33; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;39594
5; 19.1; 26-SEP-2009 04:36:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39595
6; 203.6; 26-SEP-2009 04:39:27; Dark ; 25.5; 108; Alp Col ; 2.65; 15200;occ; 51; 0;39595
7; 861.6; 26-SEP-2009 04:50:25; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;39595
8; 1548.5; 26-SEP-2009 05:01:52; Dark ; 35.5; 52; 16Bet Cet ; 2.04; 4500;occ; 71; 0;39595

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6; 205.1; 26-SEP-2009 06:20:04; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;39596
7; 862.6; 26-SEP-2009 06:31:02; Dark ; 1.5; 157; The1Eri ; 2.91; 9300;occ; 3; 0;39596
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11; 2712.6; 26-SEP-2009 07:01:52; Bright; 50.5; 53; 43Bet And ; 2.05; 3300;occ; 101; 0;39596
12; 2970.7; 26-SEP-2009 07:06:10; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;39596
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4; 2454.5; 26-SEP-2009 20:22:21; Bright; 37.5; 58; 21Alp And ; 2.07; 11000;occ; 75; 0;39604
5; 2706.1; 26-SEP-2009 20:26:33; Bright; 44.5; 53; 43Bet And ; 2.05; 3300;occ; 89; 0;39604
6; 2968.1; 26-SEP-2009 20:30:55; Bright; 34.0; 74; 11Bet Cas ; 2.27; 6600;occ; 68; 0;39604
7; 3056.4; 26-SEP-2009 20:32:23; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;39604
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4; -199.4; 26-SEP-2009 21:18:43; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;39604
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7; 869.8; 26-SEP-2009 21:36:32; Dark ; 42.0; 157; The1Eri ; 2.91; 9300;occ; 84; 0;39605
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3; -293.1; 26-SEP-2009 07:52:22; Dark ; 27.0; 1; 9Alp CMA ; -1.44; 11000;occ; 54; 0;39596
4; -208.9; 26-SEP-2009 07:53:46; Dark ; 20.5; 23; 21Eps CMA ; 1.50; 26000;occ; 41; 0;39596
5; 21.3; 26-SEP-2009 07:57:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39597
6; 206.2; 26-SEP-2009 08:00:41; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;39597
7; 864.1; 26-SEP-2009 08:11:39; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;39597
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3; 2711.5; 26-SEP-2009 08:42:27; Bright; 30.0; 53; 43Bet And ; 2.05; 3300;occ; 60; 0;39597
4; 2970.0; 26-SEP-2009 08:46:45; Bright; 2.0; 74; 11Bet Cas ; 2.27; 6600;occ; 4; 0;39597
5; 3059.2; 26-SEP-2009 08:48:14; Bright; 23.5; 76; 27Gam Cas ; 2.30; 30000;occ; 47; 0;39597
6; 4584.5; 26-SEP-2009 09:13:40; Bright; 19.0; 17; 78Bet Gem ; 1.16; 4500;occ; 38; 0;39597
7; 5102.3; 26-SEP-2009 09:22:18; Dark ; 23.5; 8; 10Alp CMi ; 0.40; 6500;occ; 47; 0;39597
8; 5744.1; 26-SEP-2009 09:32:59; Dark ; 27.0; 1; 9Alp CMA ; -1.44; 11000;occ; 54; 0;39597
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3; 865.2; 26-SEP-2009 13:13:28; Dark ; 3.0; 157; The1Eri ; 2.91; 9300;occ; 6; 0;39600
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3; 2455.9; 26-SEP-2009 13:39:59; Bright; 2.5; 58; 21Alp And ; 2.07; 11000;occ; 5; 0;39600
4; 2709.0; 26-SEP-2009 13:44:12; Bright; 30.0; 53; 43Bet And ; 2.05; 3300;occ; 60; 0;39600
5; 2969.1; 26-SEP-2009 13:48:32; Bright; 1.5; 74; 11Bet Cas ; 2.27; 6600;occ; 3; 0;39600
6; 3059.6; 26-SEP-2009 13:50:02; Bright; 21.5; 76; 27Gam Cas ; 2.30; 30000;occ; 43; 0;39600
7; 4585.2; 26-SEP-2009 14:15:28; Bright; 19.0; 17; 78Bet Gem ; 1.16; 4500;occ; 38; 0;39600
8; 5077.4; 26-SEP-2009 14:23:40; Dark ; 24.0; 153; 3Bet CMi ; 2.89; 13100;occ; 48; 0;39600
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