

GOMOS Daily Report 26-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	28SEP2009 04:32:57
Data source version	GOMOS/5.00
Start time of products	26SEP2009 00:19:32
Stop time of products	26SEP2009 23:53:34
Store outputs in DB	Yes
Nb of level 1b prods	82
Nb of prods with errors	2

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

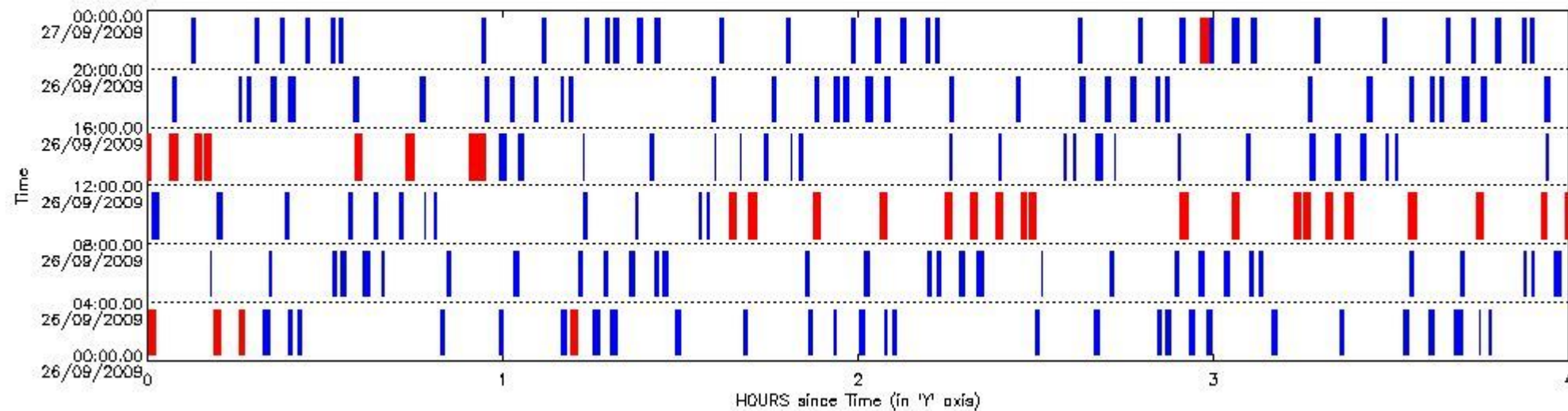
2.1 Level 0 products arrived in PCF (see template [here](#))

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
26-SEP-2009 00:00:08	16BetCet	52	39592
26-SEP-2009 00:11:05	88GamPeg	140	39592
26-SEP-2009 00:15:20	21AlpAnd	58	39592
26-SEP-2009 01:11:24	21EpsCMa	23	39592
26-SEP-2009 09:38:19	DSA1059	0	39598
26-SEP-2009 09:41:24	AlpCol	108	39598
26-SEP-2009 09:52:20	The1Eri	157	39598
26-SEP-2009 10:03:45	16BetCet	52	39598
26-SEP-2009 10:14:39	88GamPeg	140	39598
26-SEP-2009 10:18:53	21AlpAnd	58	39598
26-SEP-2009 10:23:07	43BetAnd	53	39598
26-SEP-2009 10:27:26	11BetCas	74	39598
26-SEP-2009 10:28:55	27GamCas	76	39598
26-SEP-2009 10:54:21	78BetGem	17	39598
26-SEP-2009 11:02:59	10AlpCMi	8	39598

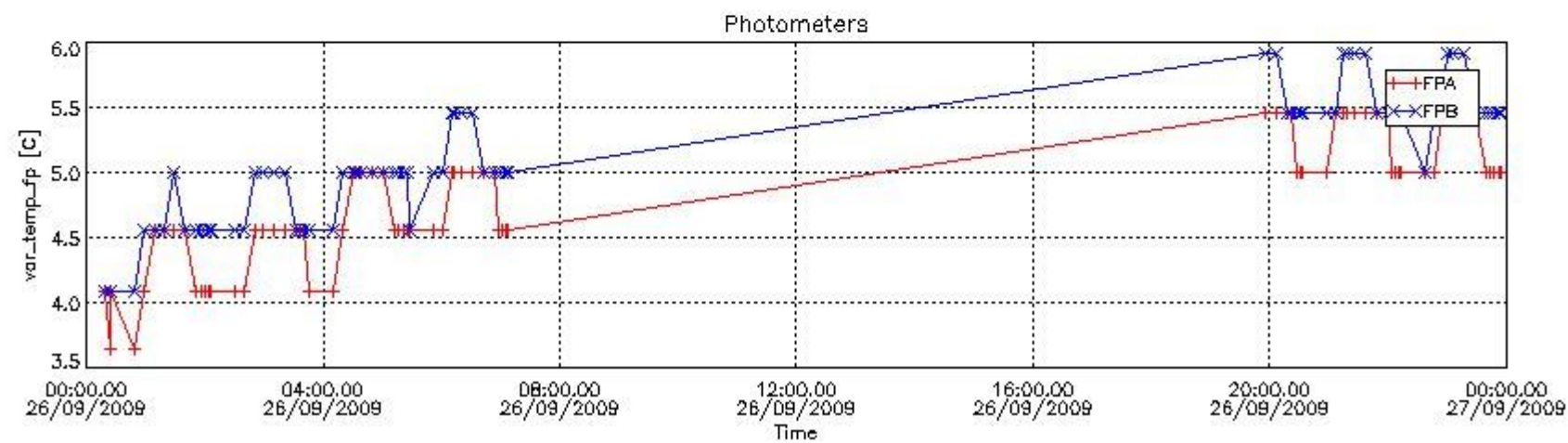
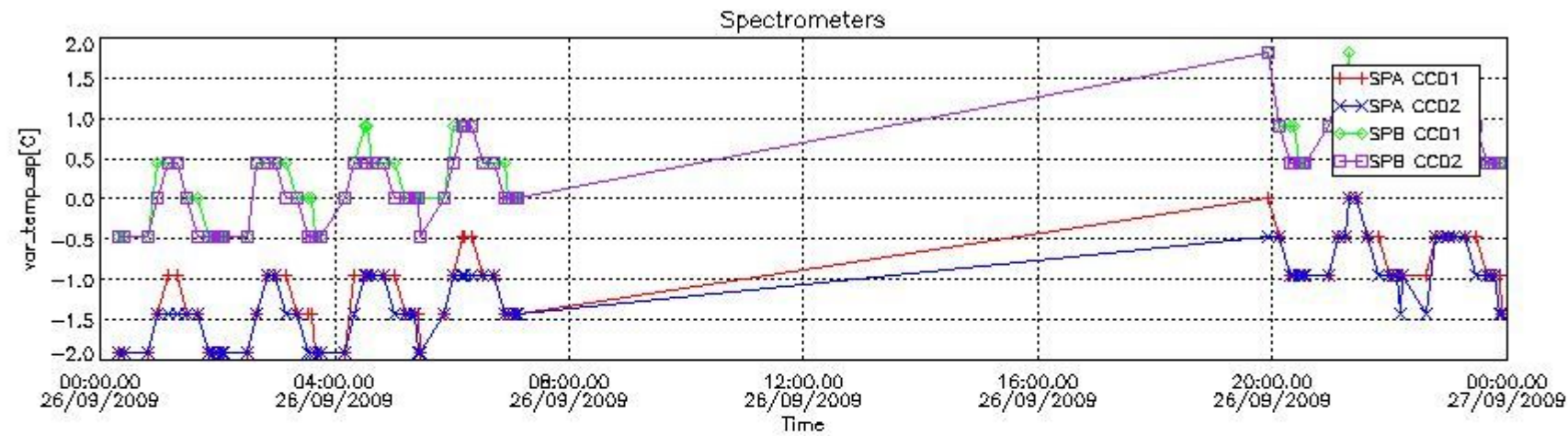
26-SEP-2009 11:13:35	31EtaCma	88	39598
26-SEP-2009 11:15:06	21EpsCma	23	39598
26-SEP-2009 11:18:56	DSA1059	0	39599
26-SEP-2009 11:22:01	AlpCol	108	39599
26-SEP-2009 11:32:57	The1Eri	157	39599
26-SEP-2009 11:44:21	16BetCet	52	39599
26-SEP-2009 11:55:14	88GamPeg	140	39599
26-SEP-2009 11:59:29	21AlpAnd	58	39599
26-SEP-2009 12:03:42	43BetAnd	53	39599
26-SEP-2009 12:08:02	11BetCas	74	39599
26-SEP-2009 12:09:31	27GamCas	76	39599
26-SEP-2009 12:34:57	78BetGem	17	39599
26-SEP-2009 12:43:36	10AlpCMi	8	39599
26-SEP-2009 12:54:11	31EtaCma	88	39599
26-SEP-2009 12:55:43	21EpsCma	23	39599
26-SEP-2009 22:57:53	31EtaCma	88	39605

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_1PNPDE20090926_001932_000000522082_00460_39592_0172.N1	26-SEP-2009 00:19:32	Bright	52.000	53	43Bet And	2.0480	3300.0	104	39592	No
2	GOM_TRA_1PNPDE20090926_002347_000000362082_00460_39592_0173.N1	26-SEP-2009 00:23:47	Bright	36.000	74	11Bet Cas	2.2680	6600.0	72	39592	No
3	GOM_TRA_1PNPDE20090926_002517_000000372082_00460_39592_0174.N1	26-SEP-2009 00:25:17	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	39592	No
4	GOM_TRA_1PNPDE20090926_004919_000000342082_00460_39592_0175.N1	26-SEP-2009 00:49:19	Twilight	33.500	24	66Alp Gem	1.5800	10200.	67	39592	No
5	GOM_TRA_1PNPDE20090926_005914_000000432082_00460_39592_0176.N1	26-SEP-2009 00:59:14	Dark	42.500	8	10Alp CMi	0.40000	6500.0	85	39592	No
6	GOM_TRA_1PNPDE20090926_010952_000000392082_00460_39592_0315.N1	26-SEP-2009 01:09:52	Dark	39.000	1	9Alp Cma	-1.4400	11000.	78	39592	No
7	GOM_TRA_1PNPDE20090926_011812_000000552082_00461_39593_0316.N1	26-SEP-2009 01:18:12	Dark	55.000	108	Alp Col	2.6520	15200.	110	39593	No
8	GOM_TRA_1PNPDE20090926_012911_000000462082_00461_39593_0317.N1	26-SEP-2009 01:29:11	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	39593	No
9	GOM_TRA_1PNPDE20090926_014039_000000382082_00461_39593_0318.N1	26-SEP-2009 01:40:39	Twilight	38.000	52	16Bet Cet	2.0370	4500.0	76	39593	No
10	GOM_TRA_1PNPDE20090926_015135_000000392082_00461_39593_0319.N1	26-SEP-2009 01:51:35	Bright	38.500	140	88Gam Peg	2.8340	26000.	77	39593	No
11	GOM_TRA_1PNPDE20090926_015550_000000252082_00461_39593_0320.N1	26-SEP-2009 01:55:50	Twilight	25.000	58	21Alp And	2.0730	11000.	50	39593	No
12	GOM_TRA_1PNPDE20090926_020007_000000522082_00461_39593_0321.N1	26-SEP-2009 02:00:07	Bright	51.500	53	43Bet And	2.0480	3300.0	103	39593	No
13	GOM_TRA_1PNPDE20090926_020423_000000232082_00461_39593_0322.N1	26-SEP-2009 02:04:23	Twilight	23.000	74	11Bet Cas	2.2680	6600.0	46	39593	No
14	GOM_TRA_1PNPDE20090926_020553_000000232082_00461_39593_0323.N1	26-SEP-2009 02:05:53	Twilight	22.500	76	27Gam Cas	2.3000	30000.	45	39593	No
15	GOM_TRA_1PNPDE20090926_022954_000000372082_00461_39593_0457.N1	26-SEP-2009 02:29:54	Bright	37.000	24	66Alp Gem	1.5800	10200.	74	39593	No
16	GOM_TRA_1PNPDE20090926_023950_000000412082_00461_39593_0458.N1	26-SEP-2009 02:39:50	Dark	41.000	8	10Alp CMi	0.40000	6500.0	82	39593	No
17	GOM_TRA_1PNPDE20090926_025029_000000392082_00461_39593_0459.N1	26-SEP-2009 02:50:29	Dark	39.000	1	9Alp Cma	-1.4400	11000.	78	39593	No
18	GOM_TRA_1PNPDE20090926_025155_000000462082_00461_39593_0460.N1	26-SEP-2009 02:51:55	Dark	46.000	23	21Eps Cma	1.5020	26000.	92	39593	No
19	GOM_TRA_1PNPDE20090926_025849_000000552082_00462_39594_0461.N1	26-SEP-2009 02:58:49	Dark	54.500	108	Alp Col	2.6520	15200.	109	39594	No
20	GOM_TRA_1PNPDE20090926_030948_000000462082_00462_39594_0462.N1	26-SEP-2009 03:09:48	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	39594	No
21	GOM_TRA_1PNPDE20090926_032115_000000392082_00462_39594_0463.N1	26-SEP-2009 03:21:15	Twilight	38.500	52	16Bet Cet	2.0370	4500.0	77	39594	No
22	GOM_TRA_1PNPDE20090926_033211_000000392082_00462_39594_0464.N1	26-SEP-2009 03:32:11	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	39594	No
23	GOM_TRA_1PNPDE20090926_033626_000000392082_00462_39594_0465.N1	26-SEP-2009 03:36:26	Bright	39.000	58	21Alp And	2.0730	11000.	78	39594	No
24	GOM_TRA_1PNPDE20090926_034042_000000742082_00462_39594_0466.N1	26-SEP-2009 03:40:42	Bright	74.000	53	43Bet And	2.0480	3300.0	148	39594	No
25	GOM_TRA_1PNPDE20090926_034458_00000012082_00462_39594_0467.N1	26-SEP-2009 03:44:58	Straylight	1.0000	74	11Bet Cas	2.2680	6600.0	2	39594	Yes
26	GOM_TRA_1PNPDE20090926_034629_000000172082_00462_39594_0468.N1	26-SEP-2009 03:46:29	Twilight	16.500	76	27Gam Cas	2.3000	30000.	33	39594	No
27	GOM_TRA_1PNPDE20090926_041031_000000112082_00462_39594_0618.N1	26-SEP-2009 04:10:31	Straylight	11.000	24	66Alp Gem	1.5800	10200.	22	39594	No
28	GOM_TRA_1PNPDE20090926_042027_000000162082_00462_39594_0619.N1	26-SEP-2009 04:20:27	Dark	16.000	8	10Alp CMi	0.40000	6500.0	32	39594	No
29	GOM_TRA_1PNPDE20090926_043107_000000332082_00462_39594_0620.N1	26-SEP-2009 04:31:07	Dark	33.000	1	9Alp Cma	-1.4400	11000.	66	39594	No
30	GOM_TRA_1PNPDE20090926_043233_000000462082_00462_39594_0621.N1	26-SEP-2009 04:32:33	Dark	45.500	23	21Eps Cma	1.5020	26000.	91	39594	No
31	GOM_TRA_1PNPDE20090926_043927_000000262082_00463_39595_0622.N1	26-SEP-2009 04:39:27	Dark	25.500	108	Alp Col	2.6520	15200.	51	39595	No
32	GOM_TRA_1PNPDE20090926_045025_000000452082_00463_39595_0623.N1	26-SEP-2009 04:50:25	Straylight	44.500	157	The1Eri	2.9060	9300.0	89	39595	No
33	GOM_TRA_1PNPDE20090926_050152_000000362082_00463_39595_0624.N1	26-SEP-2009 05:01:52	Twilight	35.500	52	16Bet Cet	2.0370	4500.0	71	39595	No
34	GOM_TRA_1PNPDE20090926_051247_000000372082_00463_39595_0625.N1	26-SEP-2009 05:12:47	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	39595	No
35	GOM_TRA_1PNPDE20090926_051702_000000372082_00463_39595_0626.N1	26-SEP-2009 05:17:02	Bright	36.500	58	21Alp And	2.0730	11000.	73	39595	No
36	GOM_TRA_1PNPDE20090926_052117_000000442082_00463_39595_0627.N1	26-SEP-2009 05:21:17	Bright	44.000	53	43Bet And	2.0480	3300.0	88	39595	No
37	GOM_TRA_1PNPDE20090926_052534_000000342082_00463_39595_0628.N1	26-SEP-2009 05:25:34	Bright	33.500	74	11Bet Cas	2.2680	6600.0	67	39595	No
38	GOM_TRA_1PNPDE20090926_052704_000000352082_00463_39595_0629.N1	26-SEP-2009 05:27:04	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	39595	No

39	GOM_TRA_1PNPDE20090926_055106_000000342082_00463_39595_0816.N1	26-SEP-2009 05:51:06	Twilight	33.500	24	66Alp Gem	1.5800	10200.	67	39595	No
40	GOM_TRA_1PNPDE20090926_060104_000000392082_00463_39595_0817.N1	26-SEP-2009 06:01:04	Dark	38.500	8	10Alp CMi	0.40000	6500.0	77	39595	No
41	GOM_TRA_1PNPDE20090926_061145_000000332082_00463_39595_0818.N1	26-SEP-2009 06:11:45	Dark	33.000	1	9Alp CMa	-1.4400	11000.	66	39595	No
42	GOM_TRA_1PNPDE20090926_061310_000000422082_00463_39595_0819.N1	26-SEP-2009 06:13:10	Dark	41.500	23	21Eps CMa	1.5020	26000.	83	39595	No
43	GOM_TRA_1PNPDE20090926_062004_000000572082_00464_39596_0820.N1	26-SEP-2009 06:20:04	Dark	57.000	108	Alp Col	2.6520	15200.	114	39596	No
44	GOM_TRA_1PNPDE20090926_063102_000000022082_00464_39596_0821.N1	26-SEP-2009 06:31:02	Dark	1.5000	157	The1Eri	2.9060	9300.0	3	39596	Yes
45	GOM_TRA_1PNPDE20090926_064227_000000392082_00464_39596_0822.N1	26-SEP-2009 06:42:27	Twilight	38.500	52	16Bet Cet	2.0370	4500.0	77	39596	No
46	GOM_TRA_1PNPDE20090926_065322_000000402082_00464_39596_0823.N1	26-SEP-2009 06:53:22	Bright	40.000	140	88Gam Peg	2.8340	26000.	80	39596	No
47	GOM_TRA_1PNPDE20090926_065737_000000402082_00464_39596_0824.N1	26-SEP-2009 06:57:37	Bright	39.500	58	21Alp And	2.0730	11000.	79	39596	No
48	GOM_TRA_1PNPDE20090926_070152_000000512082_00464_39596_0825.N1	26-SEP-2009 07:01:52	Bright	50.500	53	43Bet And	2.0480	3300.0	101	39596	No
49	GOM_TRA_1PNPDE20090926_070610_000000262082_00464_39596_0826.N1	26-SEP-2009 07:06:10	Twilight	26.000	74	11Bet Cas	2.2680	6600.0	52	39596	No
50	GOM_TRA_1PNPDE20090926_070739_000000372082_00464_39596_0827.N1	26-SEP-2009 07:07:39	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	39596	No
51	GOM_TRA_1PNPDE20090926_195556_000000422082_00472_39604_1187.N1	26-SEP-2009 19:55:56	Straylight	42.000	157	The1Eri	2.9060	9300.0	84	39604	No
52	GOM_TRA_1PNPDE20090926_200716_000000372082_00472_39604_1188.N1	26-SEP-2009 20:07:16	Twilight	36.500	52	16Bet Cet	2.0370	4500.0	73	39604	No
53	GOM_TRA_1PNPDE20090926_201807_000000372082_00472_39604_1189.N1	26-SEP-2009 20:18:07	Bright	37.000	140	88Gam Peg	2.8340	26000.	74	39604	No
54	GOM_TRA_1PNPDE20090926_202221_000000382082_00472_39604_1190.N1	26-SEP-2009 20:22:21	Bright	37.500	58	21Alp And	2.0730	11000.	75	39604	No
55	GOM_TRA_1PNPDE20090926_202633_000000452082_00472_39604_1191.N1	26-SEP-2009 20:26:33	Bright	44.500	53	43Bet And	2.0480	3300.0	89	39604	No
56	GOM_TRA_1PNPDE20090926_203055_000000342082_00472_39604_1192.N1	26-SEP-2009 20:30:55	Bright	34.000	74	11Bet Cas	2.2680	6600.0	68	39604	No
57	GOM_TRA_1PNPDE20090926_203223_000000362082_00472_39604_1193.N1	26-SEP-2009 20:32:23	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	39604	No
58	GOM_TRA_1PNPDE20090926_205630_000000352082_00472_39604_1194.N1	26-SEP-2009 20:56:30	Twilight	34.500	24	66Alp Gem	1.5800	10200.	69	39604	No
59	GOM_TRA_1PNPDE20090926_210635_000000402082_00472_39604_1330.N1	26-SEP-2009 21:06:35	Dark	40.000	8	10Alp CMi	0.40000	6500.0	80	39604	No
60	GOM_TRA_1PNPDE20090926_211348_000000342082_00472_39604_1331.N1	26-SEP-2009 21:13:48	Dark	33.500	132	15Rho Pup	2.8030	6900.0	67	39604	No
61	GOM_TRA_1PNPDE20090926_211711_000000392082_00472_39604_1332.N1	26-SEP-2009 21:17:11	Dark	38.500	88	31Eta CMa	2.4480	20000.	77	39604	No
62	GOM_TRA_1PNPDE20090926_211843_000000422082_00472_39604_1333.N1	26-SEP-2009 21:18:43	Dark	42.000	23	21Eps CMa	1.5020	26000.	84	39604	No
63	GOM_TRA_1PNPDE20090926_212541_000000512082_00473_39605_1334.N1	26-SEP-2009 21:25:41	Dark	50.500	108	Alp Col	2.6520	15200.	101	39605	No
64	GOM_TRA_1PNPDE20090926_213632_000000422082_00473_39605_1335.N1	26-SEP-2009 21:36:32	Straylight	42.000	157	The1Eri	2.9060	9300.0	84	39605	No
65	GOM_TRA_1PNPDE20090926_214752_000000362082_00473_39605_1336.N1	26-SEP-2009 21:47:52	Straylight	36.000	52	16Bet Cet	2.0370	4500.0	72	39605	No
66	GOM_TRA_1PNPDE20090926_215843_000000372082_00473_39605_1337.N1	26-SEP-2009 21:58:43	Bright	37.000	140	88Gam Peg	2.8340	26000.	74	39605	No
67	GOM_TRA_1PNPDE20090926_220257_000000372082_00473_39605_1338.N1	26-SEP-2009 22:02:57	Bright	37.000	58	21Alp And	2.0730	11000.	74	39605	No
68	GOM_TRA_1PNPDE20090926_220708_000000452082_00473_39605_1339.N1	26-SEP-2009 22:07:08	Bright	44.500	53	43Bet And	2.0480	3300.0	89	39605	No
69	GOM_TRA_1PNPDE20090926_221130_000000342082_00473_39605_1340.N1	26-SEP-2009 22:11:30	Bright	34.000	74	11Bet Cas	2.2680	6600.0	68	39605	No
70	GOM_TRA_1PNPDE20090926_221259_000000362082_00473_39605_1341.N1	26-SEP-2009 22:12:59	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	39605	No
71	GOM_TRA_1PNPDE20090926_223707_000000352082_00473_39605_1342.N1	26-SEP-2009 22:37:07	Twilight	34.500	24	66Alp Gem	1.5800	10200.	69	39605	No
72	GOM_TRA_1PNPDE20090926_224711_000000402082_00473_39605_1343.N1	26-SEP-2009 22:47:11	Dark	39.500	8	10Alp CMi	0.40000	6500.0	79	39605	No
73	GOM_TRA_1PNPDE20090926_225424_000000342082_00473_39605_1499.N1	26-SEP-2009 22:54:24	Dark	33.500	132	15Rho Pup	2.8030	6900.0	67	39605	No
74	GOM_TRA_1PNPDE20090926_225920_000000422082_00473_39605_1500.N1	26-SEP-2009 22:59:20	Dark	42.000	23	21Eps CMa	1.5020	26000.	84	39605	No
75	GOM_TRA_1PNPDE20090926_230618_000000512082_00474_39606_1501.N1	26-SEP-2009 23:06:18	Dark	50.500	108	Alp Col	2.6520	15200.	101	39606	No
76	GOM_TRA_1PNPDE20090926_231709_000000422082_00474_39606_1502.N1	26-SEP-2009 23:17:09	Straylight	42.000	157	The1Eri	2.9060	9300.0	84	39606	No
77	GOM_TRA_1PNPDE20090926_232828_000000362082_00474_39606_1503.N1	26-SEP-2009 23:28:28	Straylight	35.500	52	16Bet Cet	2.0370	4500.0	71	39606	No
78	GOM_TRA_1PNPDE20090926_233918_000000372082_00474_39606_1504.N1	26-SEP-2009 23:39:18	Bright	37.000	140	88Gam Peg	2.8340	26000.	74	39606	No
79	GOM_TRA_1PNPDE20090926_234332_000000372082_00474_39606_1505.N1	26-SEP-2009 23:43:32	Bright	37.000	58	21Alp And	2.0730	11000.	74	39606	No
80	GOM_TRA_1PNPDE20090926_234742_000000452082_00474_39606_1506.N1	26-SEP-2009 23:47:42	Bright	44.500	53	43Bet And	2.0480	3300.0	89	39606	No
81	GOM_TRA_1PNPDE20090926_235206_000000342082_00474_39606_1507.N1	26-SEP-2009 23:52:06	Bright	34.000	74	11Bet Cas	2.2680	6600.0	68	39606	No
82	GOM_TRA_1PNPDE20090926_235334_000000352082_00474_39606_1508.N1	26-SEP-2009 23:53:34	Bright	35.000	76	27Gam Cas	2.3000	30000.	70	39606	No

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



4. Overview of dark signal processing per product

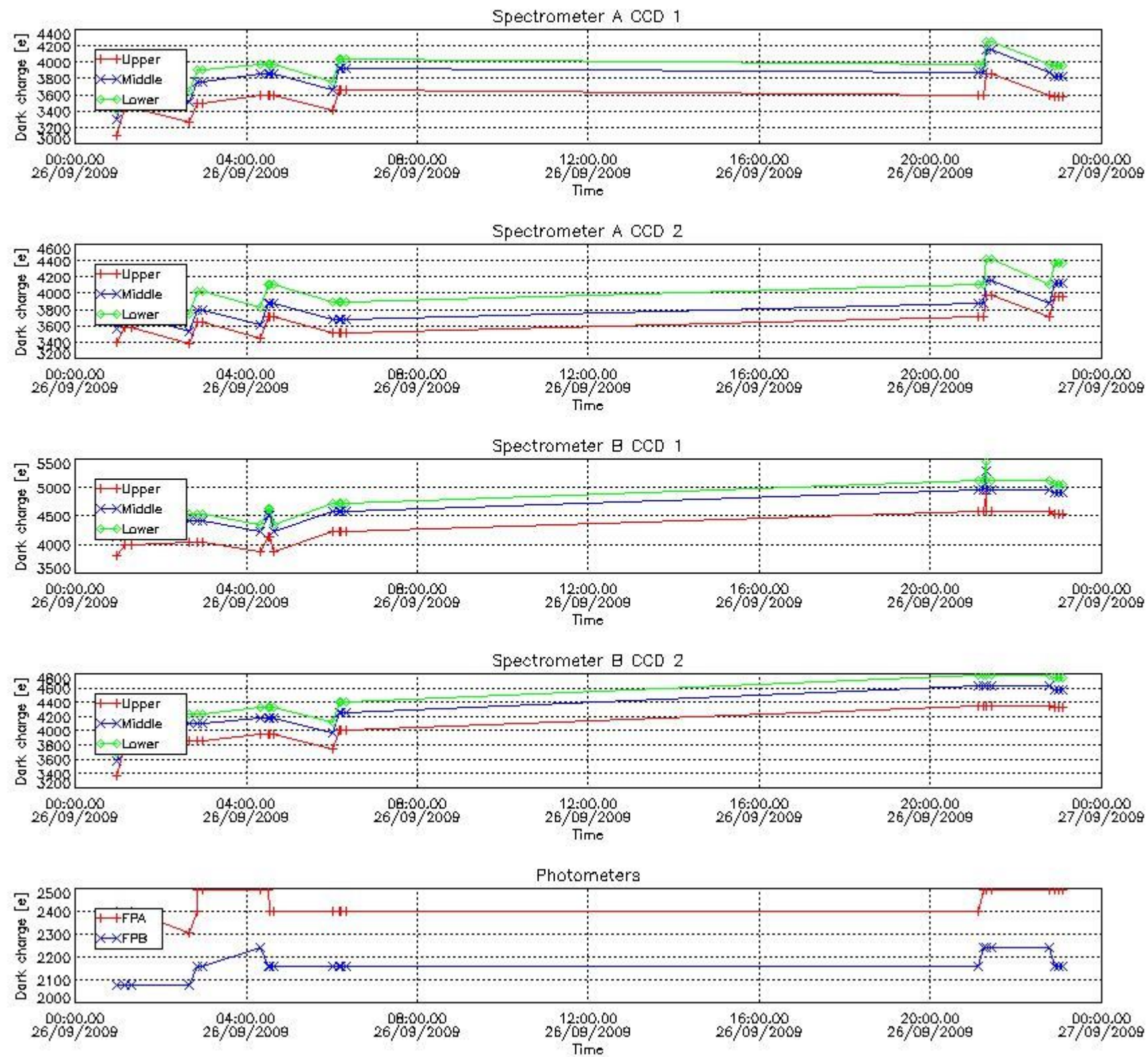
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090926_001932_000000522082_00460_39592_0172.N1	DC map used
GOM_TRA_1PNPDE20090926_002347_000000362082_00460_39592_0173.N1	DC map used
GOM_TRA_1PNPDE20090926_002517_000000372082_00460_39592_0174.N1	DC map used
GOM_TRA_1PNPDE20090926_004919_000000342082_00460_39592_0175.N1	DC map used
GOM_TRA_1PNPDE20090926_005914_000000432082_00460_39592_0176.N1	DC map used
GOM_TRA_1PNPDE20090926_195556_000000422082_00472_39604_1187.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090926_200716_000000372082_00472_39604_1188.N1	DC map used
GOM_TRA_1PNPDE20090926_201807_000000372082_00472_39604_1189.N1	DC map used
GOM_TRA_1PNPDE20090926_202221_000000382082_00472_39604_1190.N1	DC map used
GOM_TRA_1PNPDE20090926_202633_000000452082_00472_39604_1191.N1	DC map used
GOM_TRA_1PNPDE20090926_203055_000000342082_00472_39604_1192.N1	DC map used
GOM_TRA_1PNPDE20090926_203223_000000362082_00472_39604_1193.N1	DC map used
GOM_TRA_1PNPDE20090926_205630_000000352082_00472_39604_1194.N1	DC map used

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



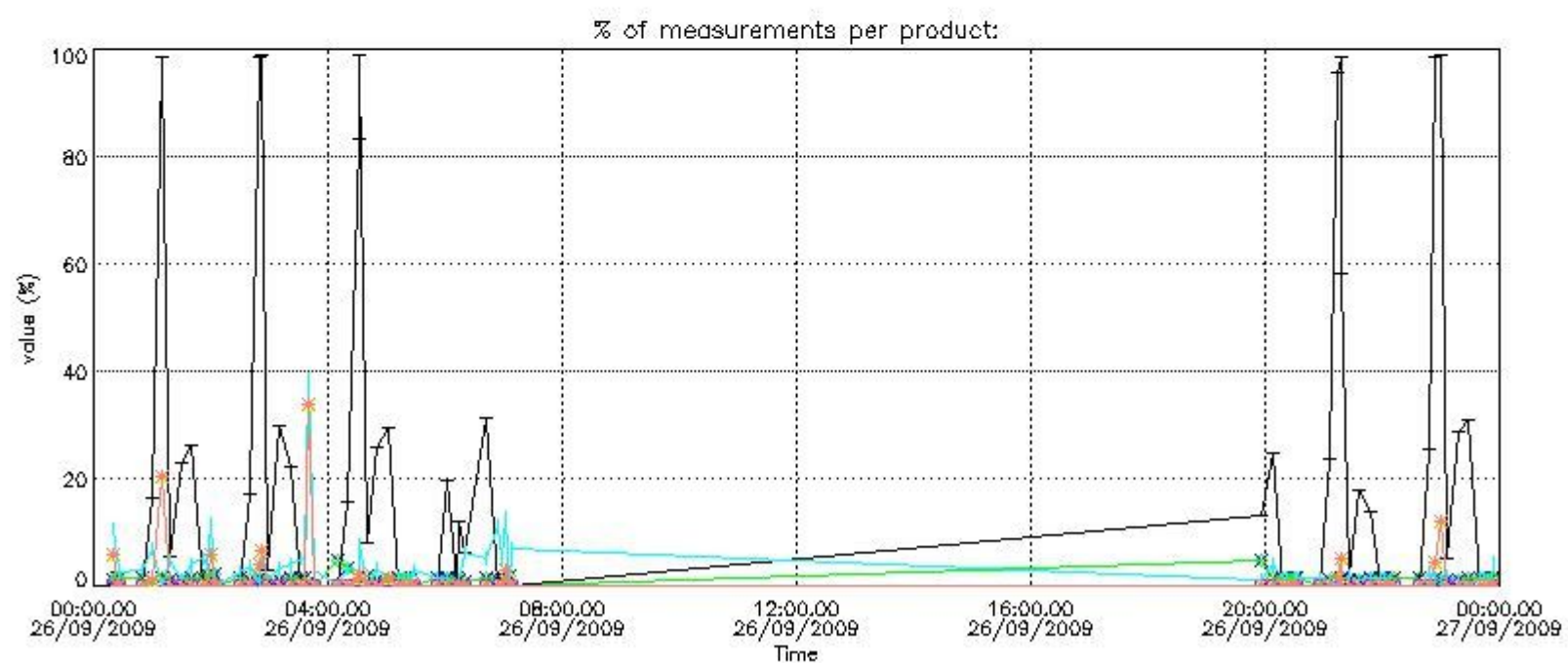
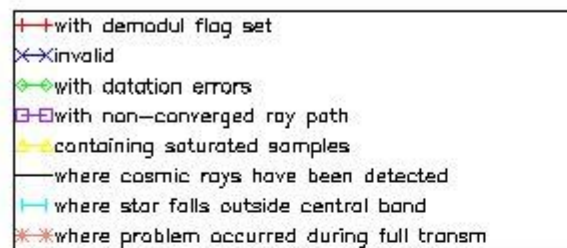
5. Demodulation flag and quality information monitoring

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.

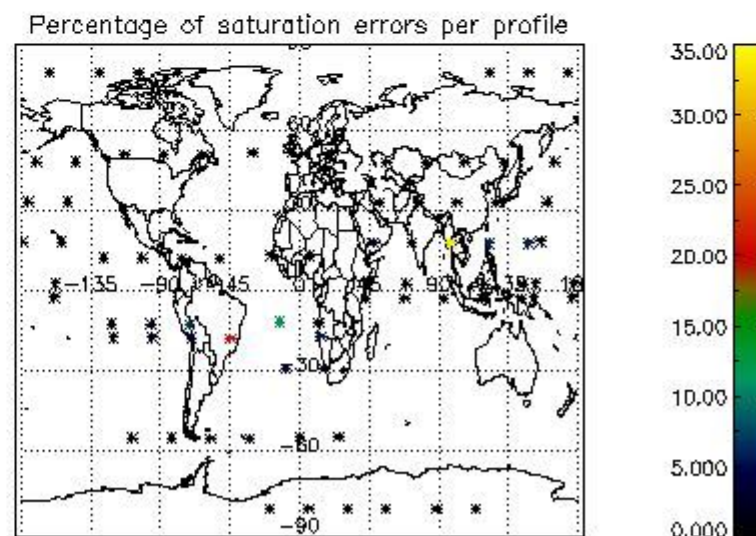
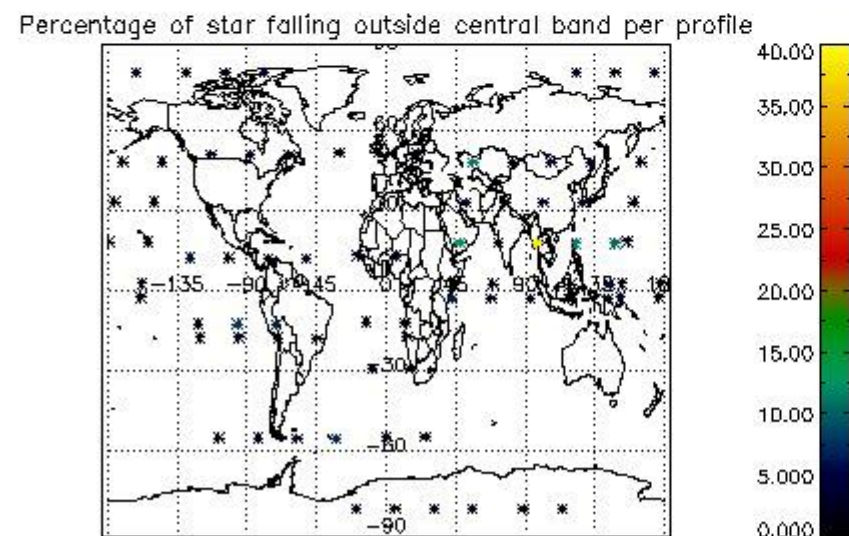
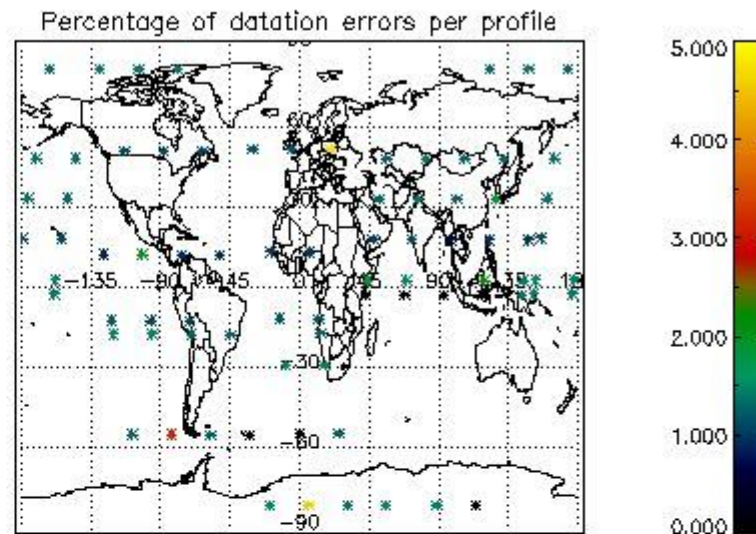
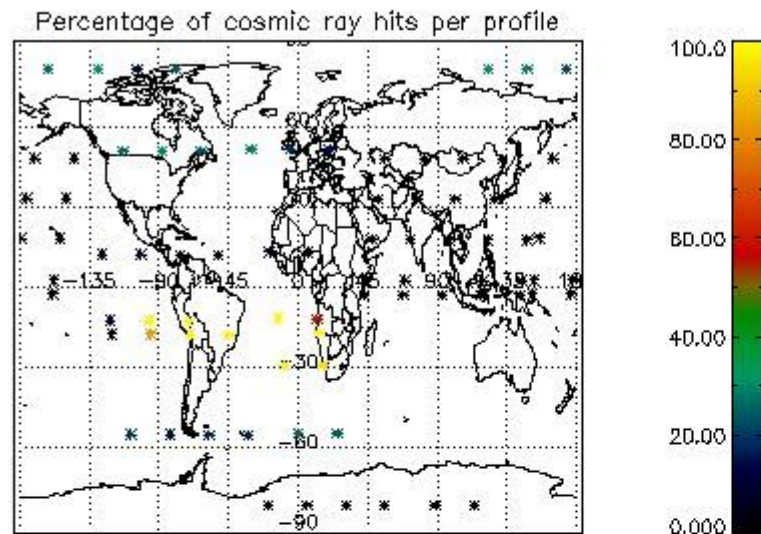
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	31.2500 %
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)



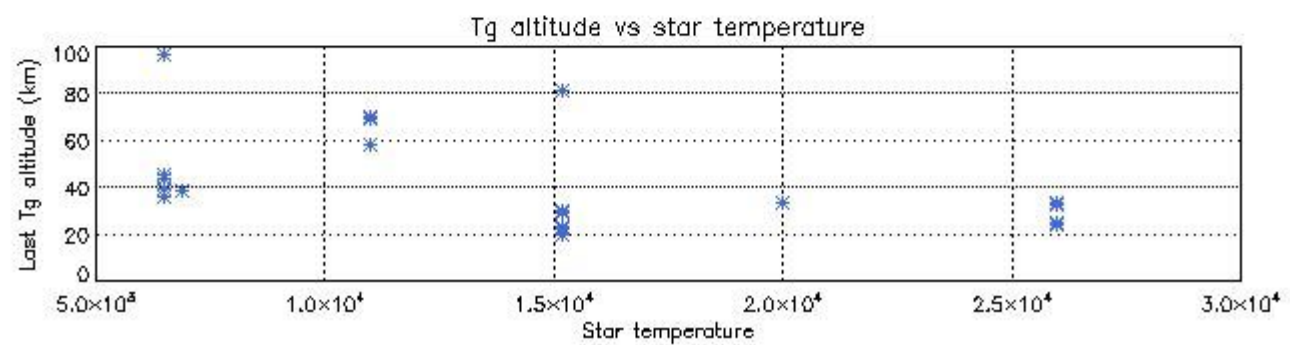
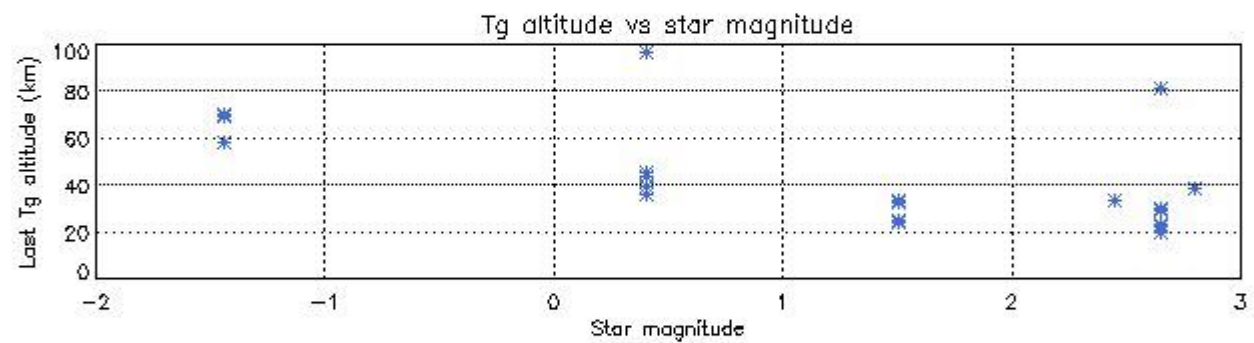
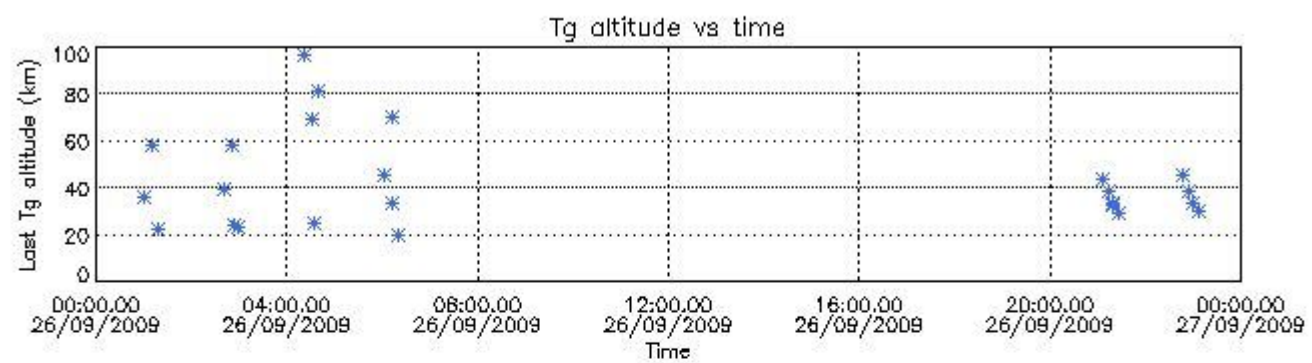
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	42.718	30.043	NaN
St. deviation:	19.905	6.6988	NaN
Maximum:	96.635	44.808	NaN
Minimum:	19.679	3.3781	NaN
Number of data:	24.000	33.000	NaN

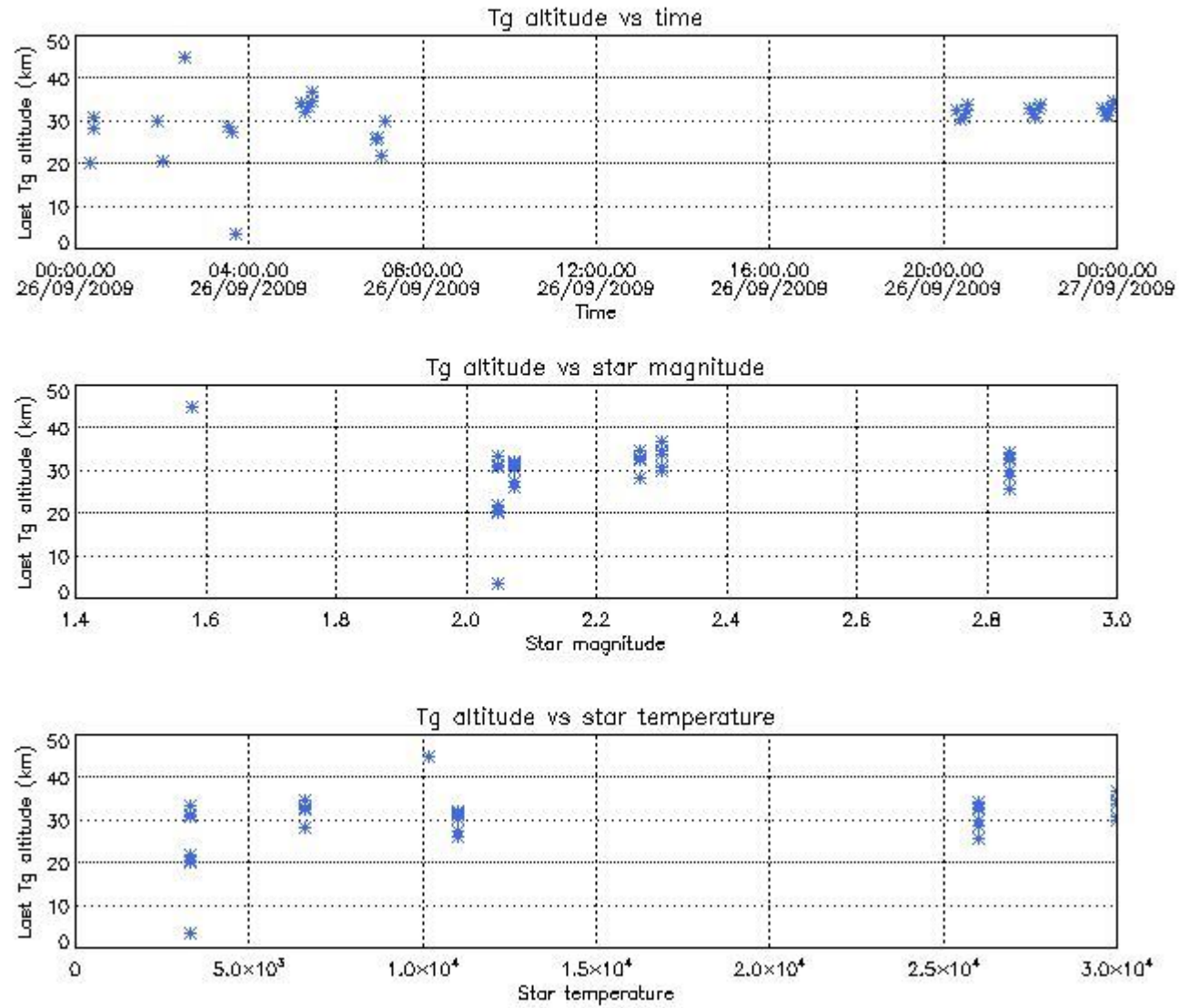
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

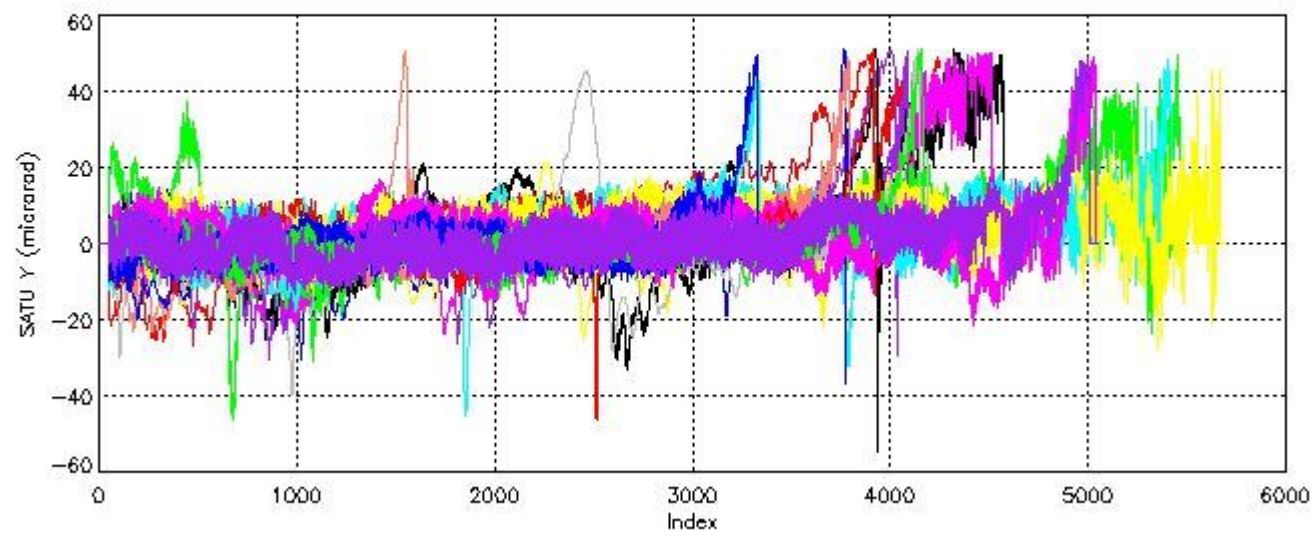
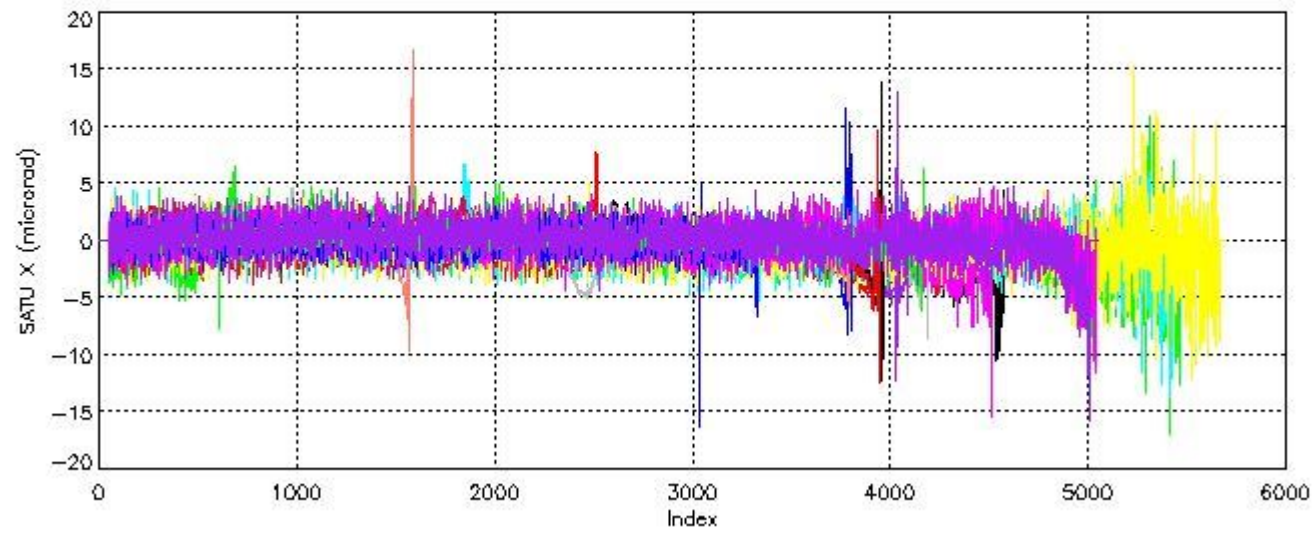


7. Star Acquisition and Tracking Unit (SATU)

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:	0.45193	-2.7853	0.48788	-3.6451
St. deviation:	0.85489	6.1276	1.0720	7.5952
Maximum:	6.5000	37.600	7.5000	24.900
Minimum:	-7.7000	-46.100	-5.8000	-47.100

Number of data:	30600.	30600.	35600.	35600.
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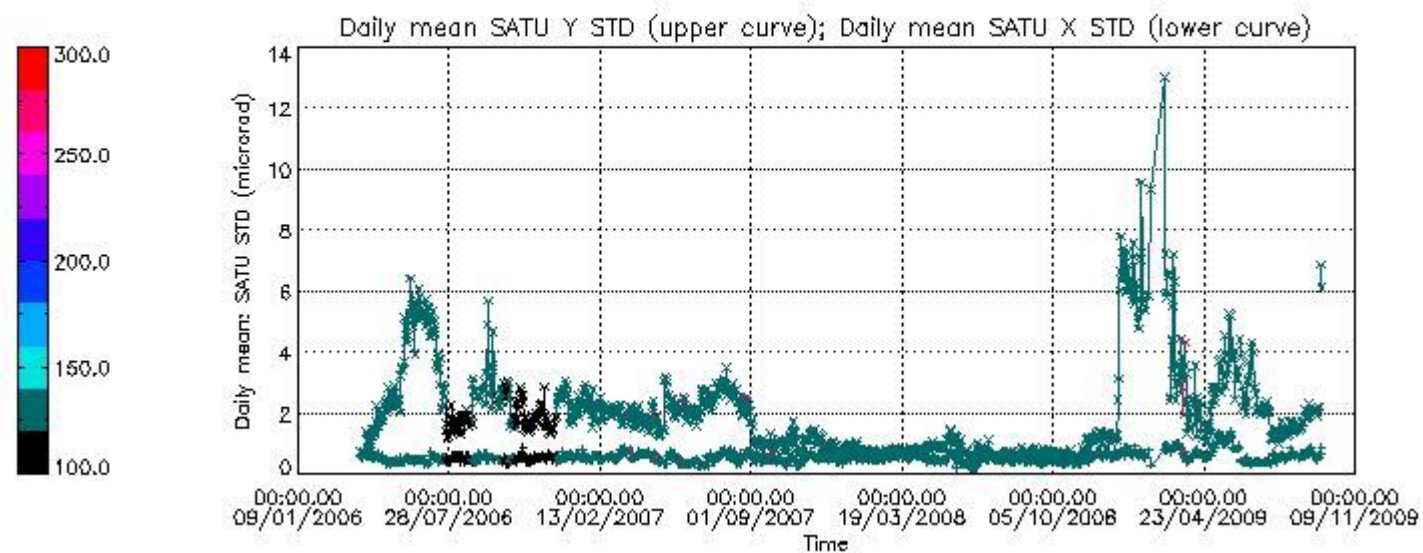
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

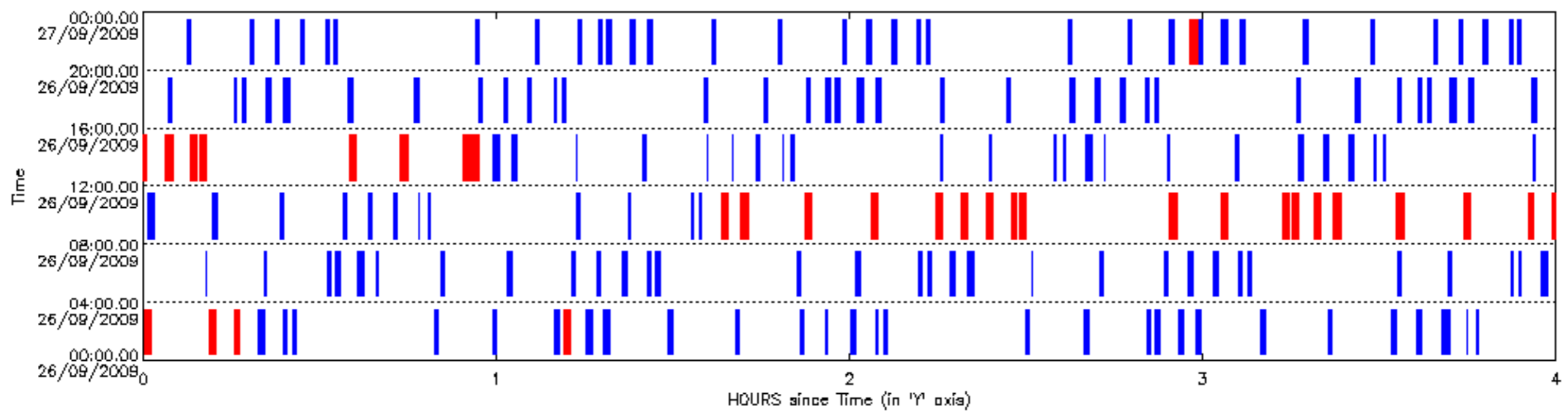
Lower curve: STD of SATU X axis

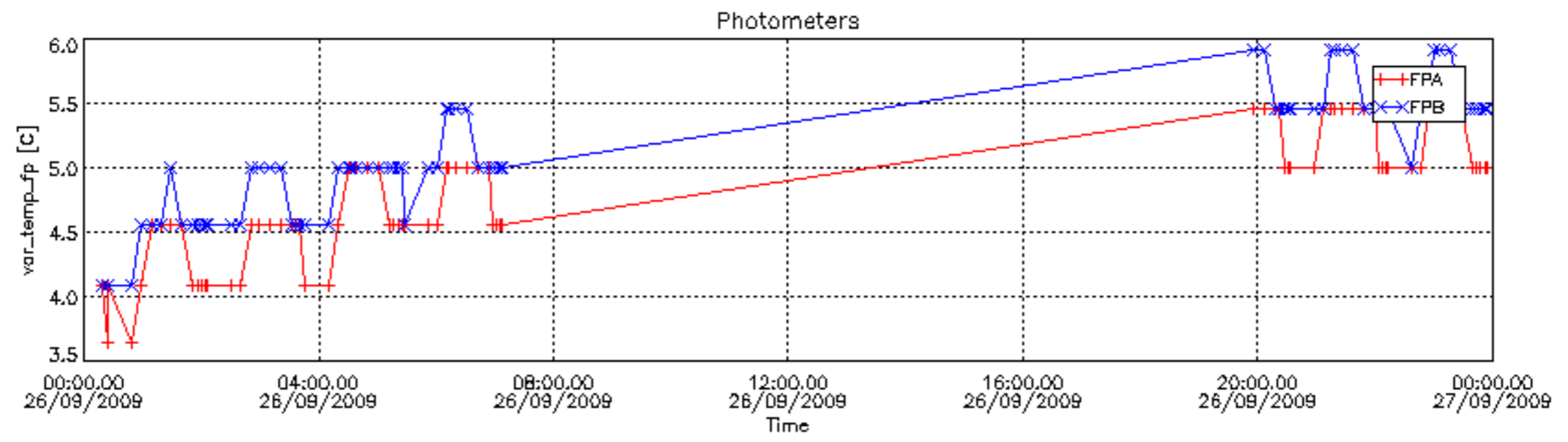
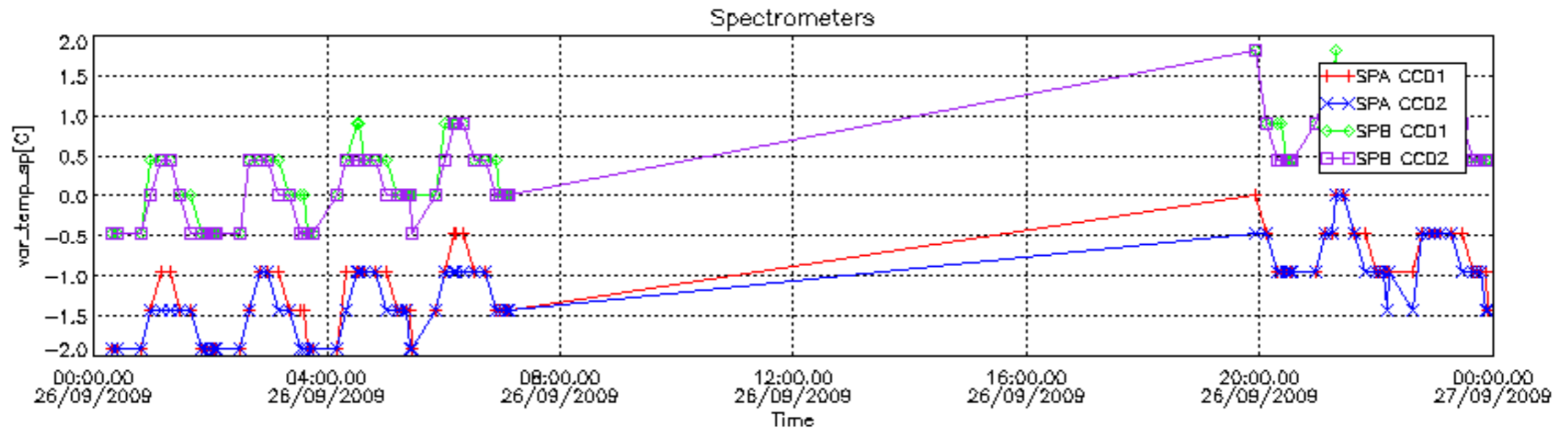


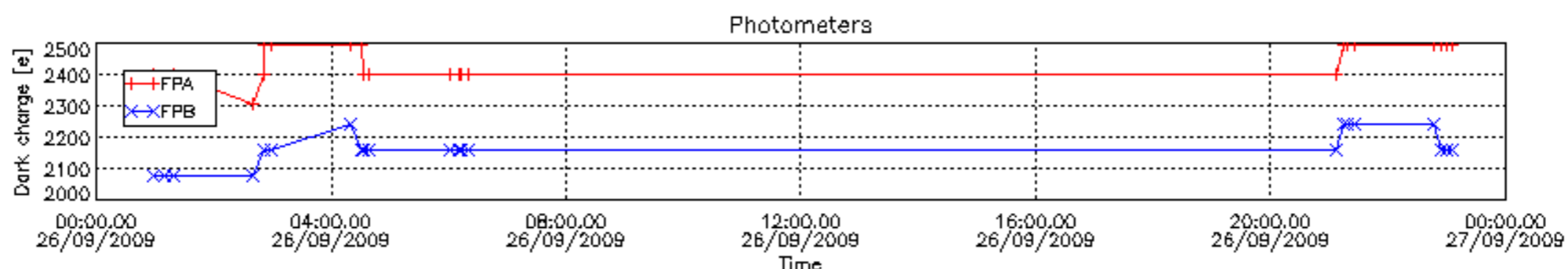
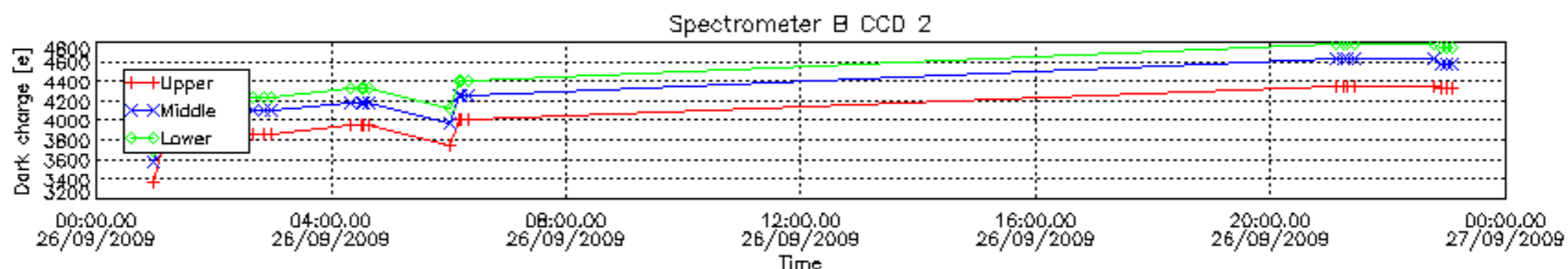
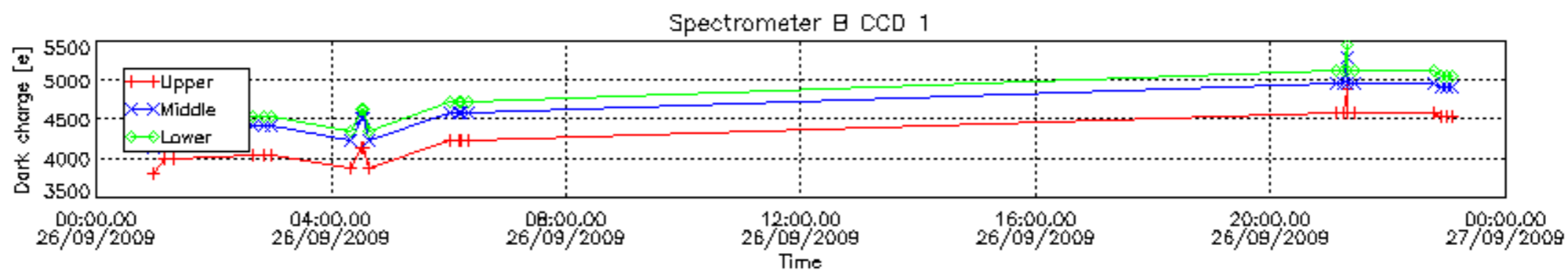
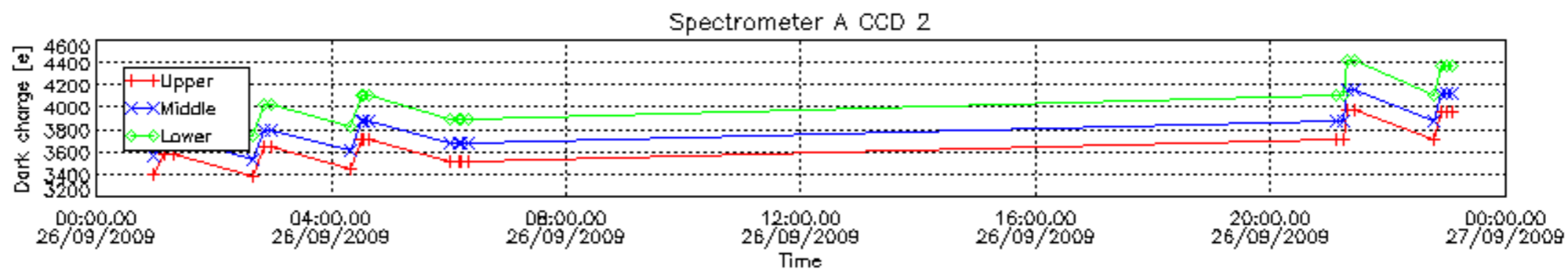
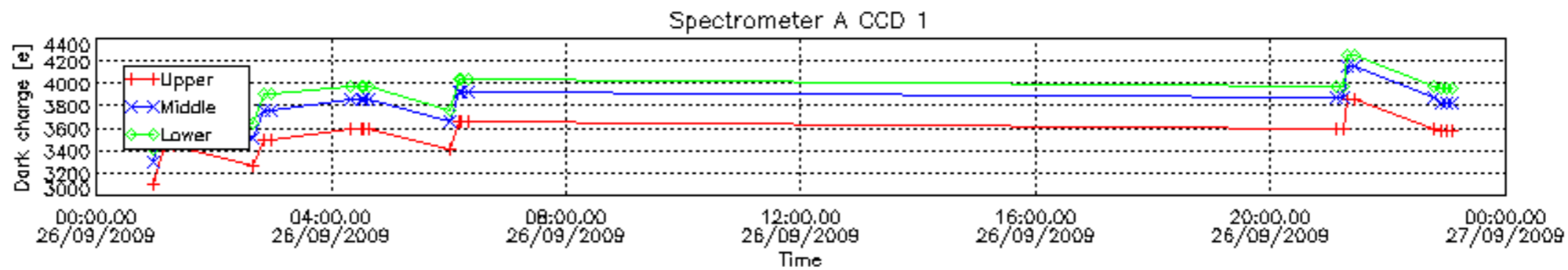
8. Auxiliary Data Files used for the production reported in section 2.4

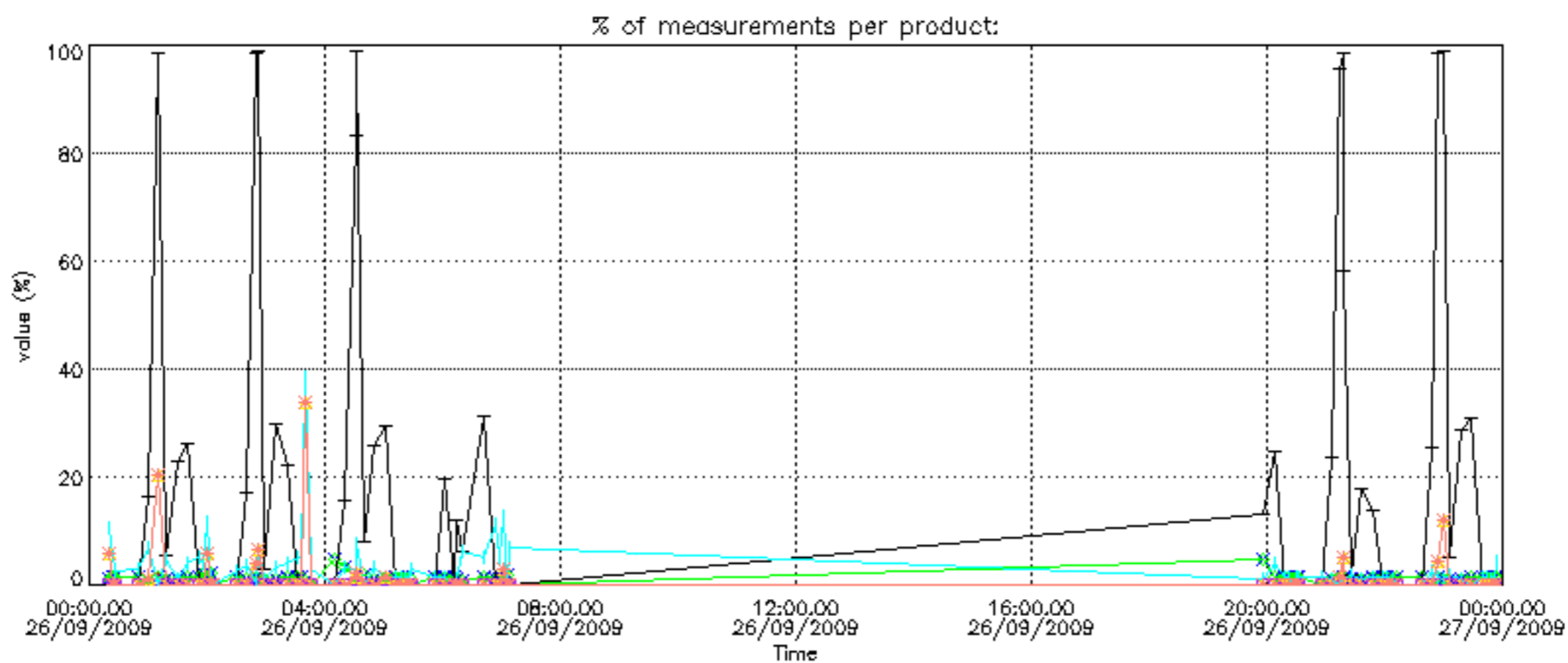
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	26-SEP-2009 00:19:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090922_092505_20090920_000000_20100101_000000	1	26-SEP-2009 00:19:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	26-SEP-2009 00:19:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-SEP-2009 00:19:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	26-SEP-2009 00:19:32
ECMWF_FILE	AUX_ECF_AXNECM20090925_064113_20090925_210000_20090926_090000	1	26-SEP-2009 00:19:32
ECMWF_FILE	AUX_ECF_AXNECM20090926_101349_20090926_150000_20090927_030000	51	26-SEP-2009 19:55:56
ECMWF_FILE	AUX_ECF_AXNECM20090926_101350_20090926_210000_20090927_090000	59	26-SEP-2009 21:06:35
OPTIONAL_ECMWF_FILE	MISSING	1	26-SEP-2009 00:19:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090925_214045_000057382082_00458_39590_8834.N1	1	26-SEP-2009 00:19:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090925_232142_000057382082_00459_39591_8835.N1	6	26-SEP-2009 01:09:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090926_010239_000044632082_00460_39592_8836.N1	15	26-SEP-2009 02:29:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090926_022221_000051012082_00461_39593_8837.N1	27	26-SEP-2009 04:10:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090926_035241_000057382082_00462_39594_8838.N1	39	26-SEP-2009 05:51:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090926_195421_000038252082_00472_39604_8840.N1	51	26-SEP-2009 19:55:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090926_205807_000063762082_00472_39604_8841.N1	73	26-SEP-2009 22:54:24

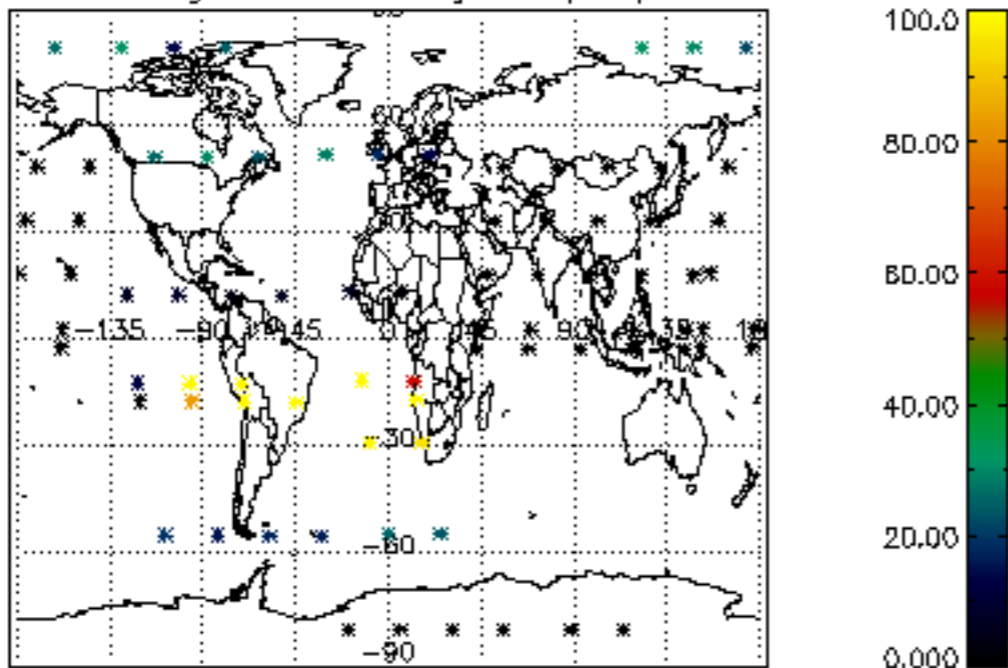




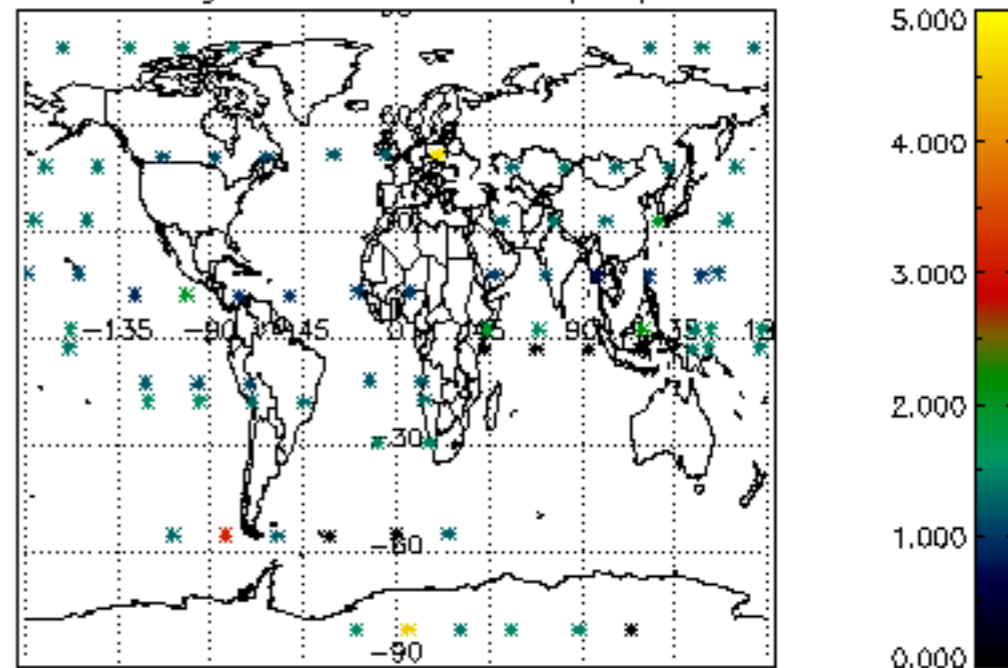




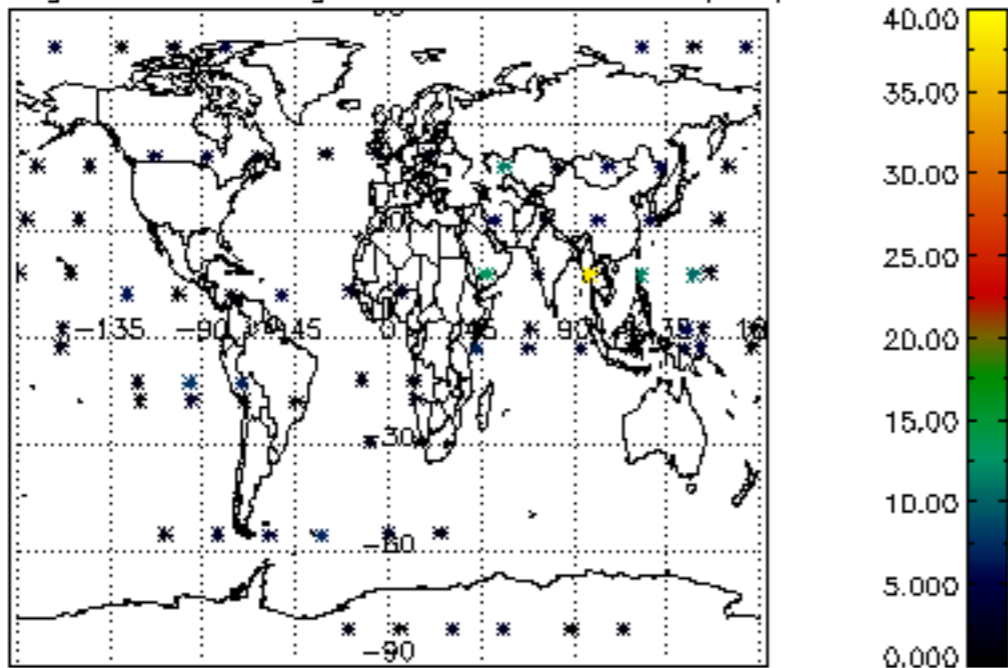
Percentage of cosmic ray hits per profile



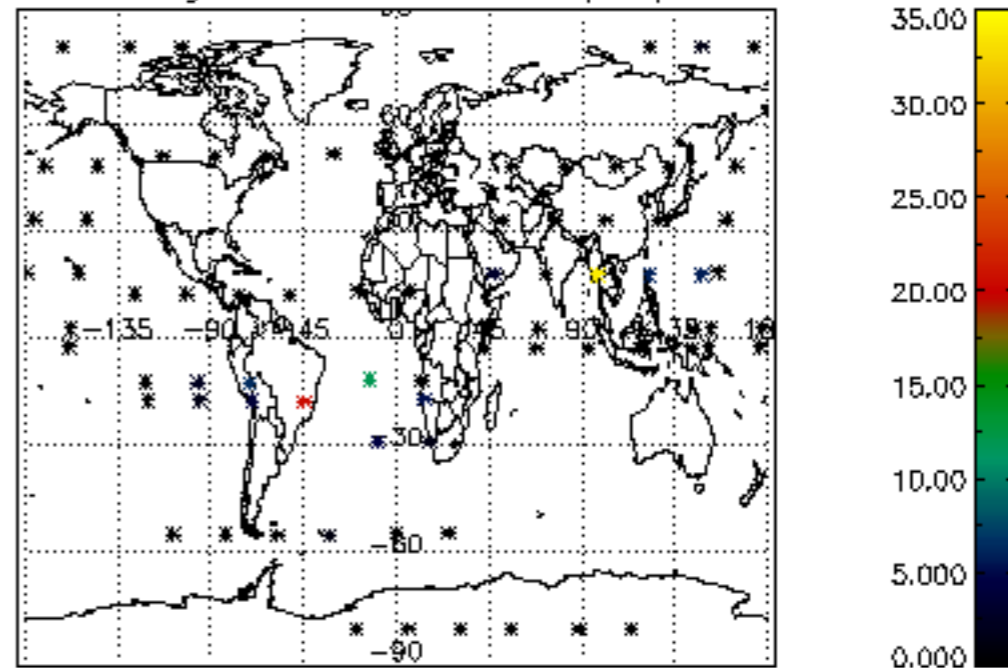
Percentage of datation errors per profile



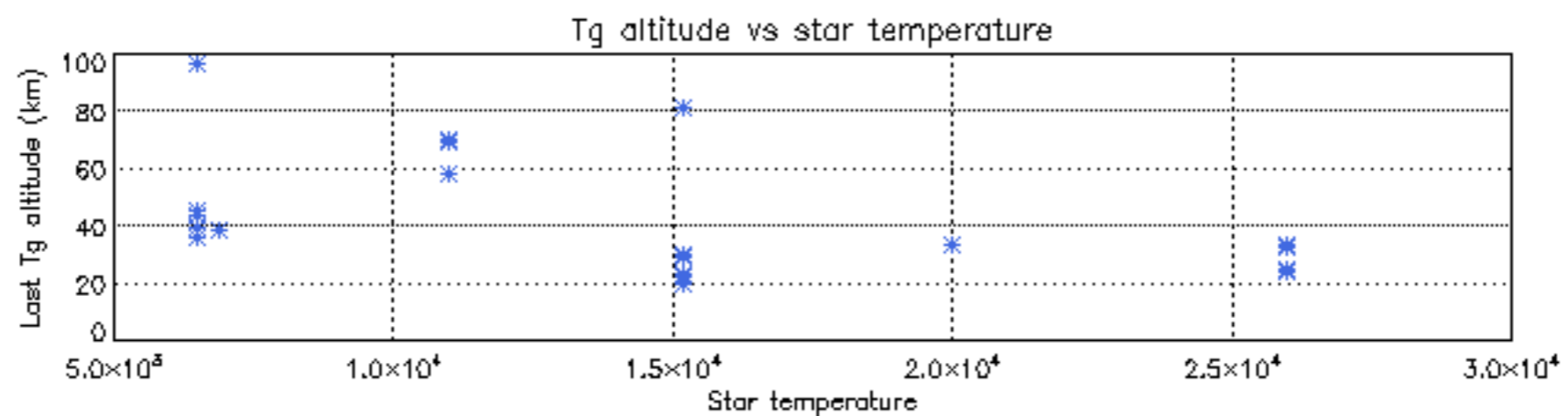
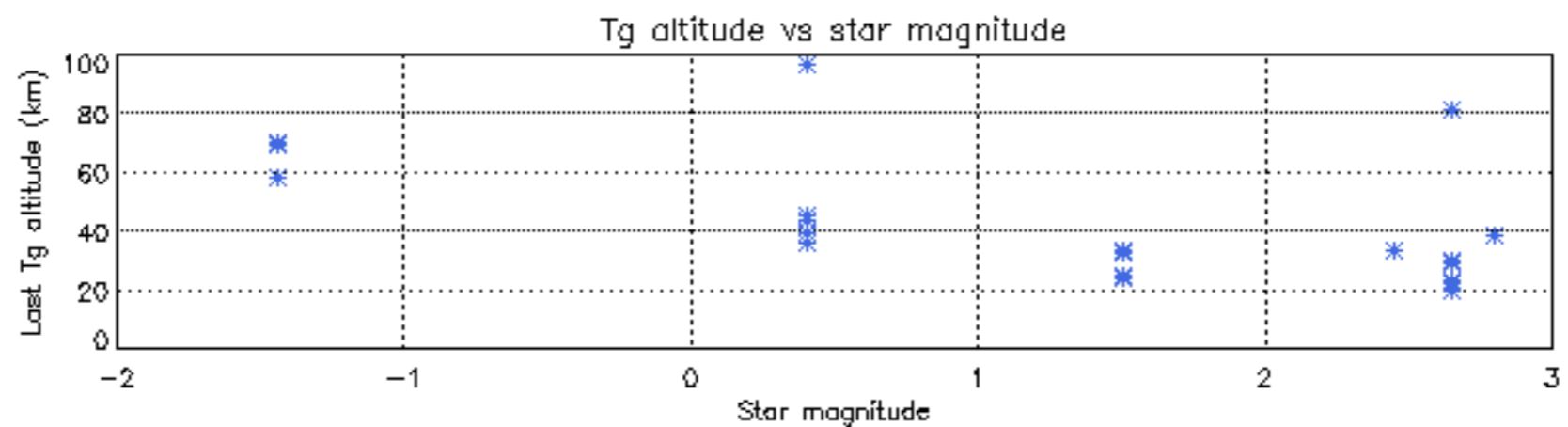
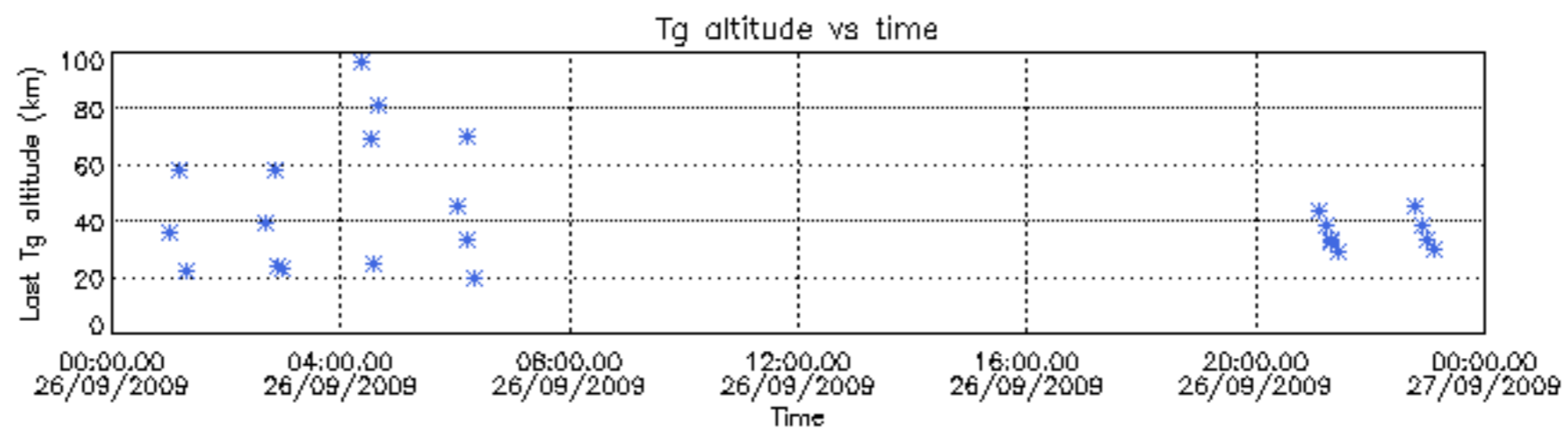
Percentage of star falling outside central band per profile



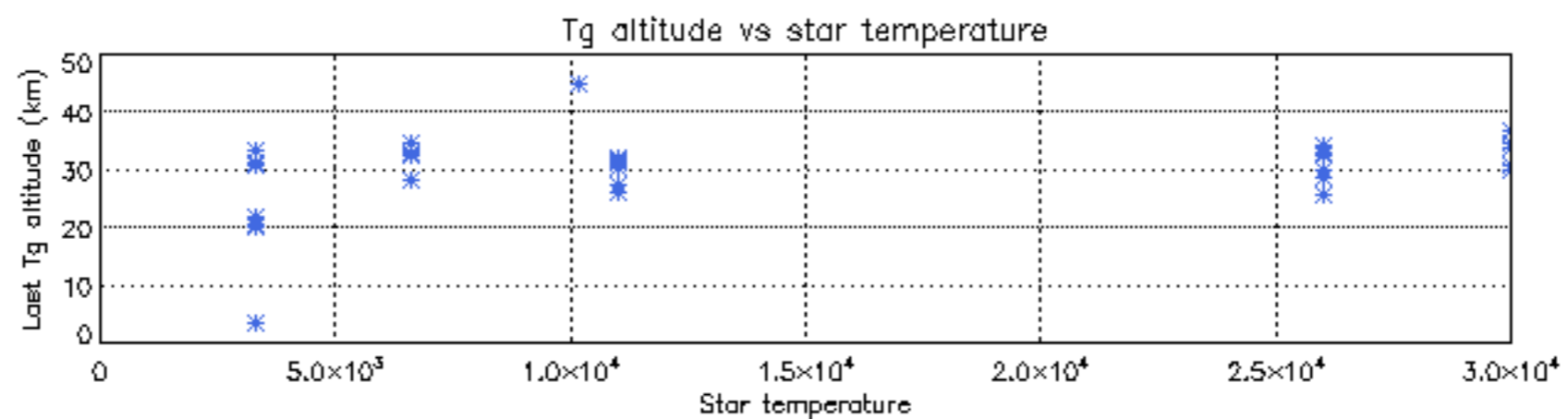
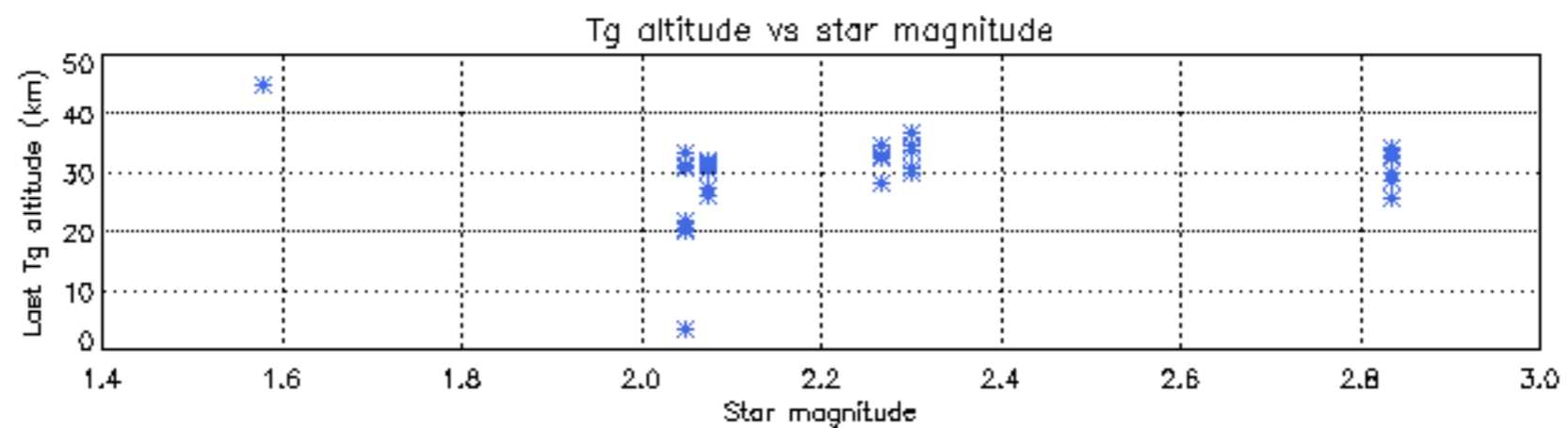
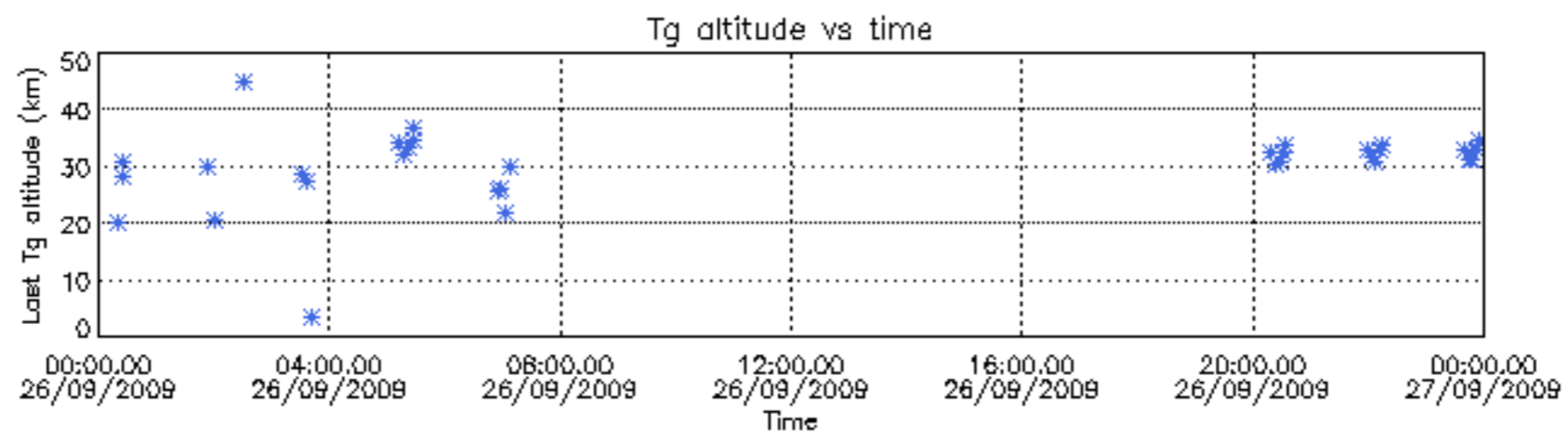
Percentage of saturation errors per profile

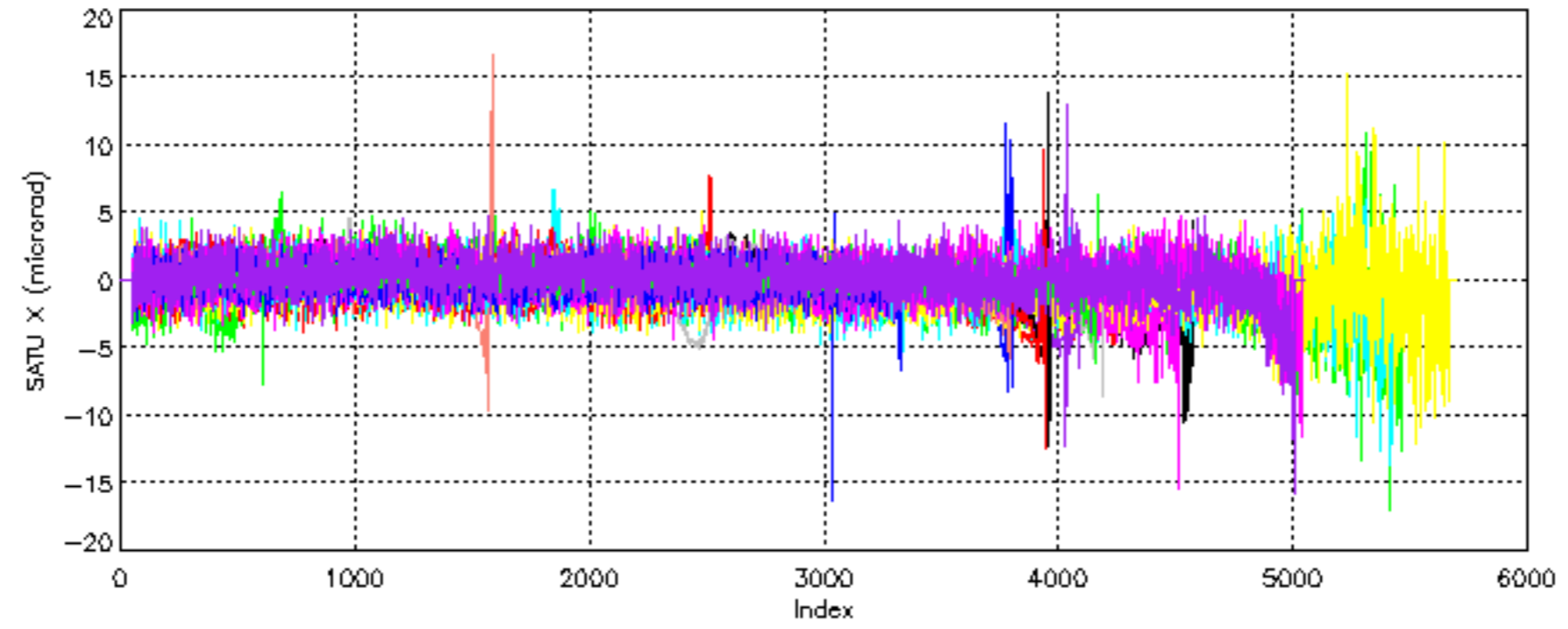


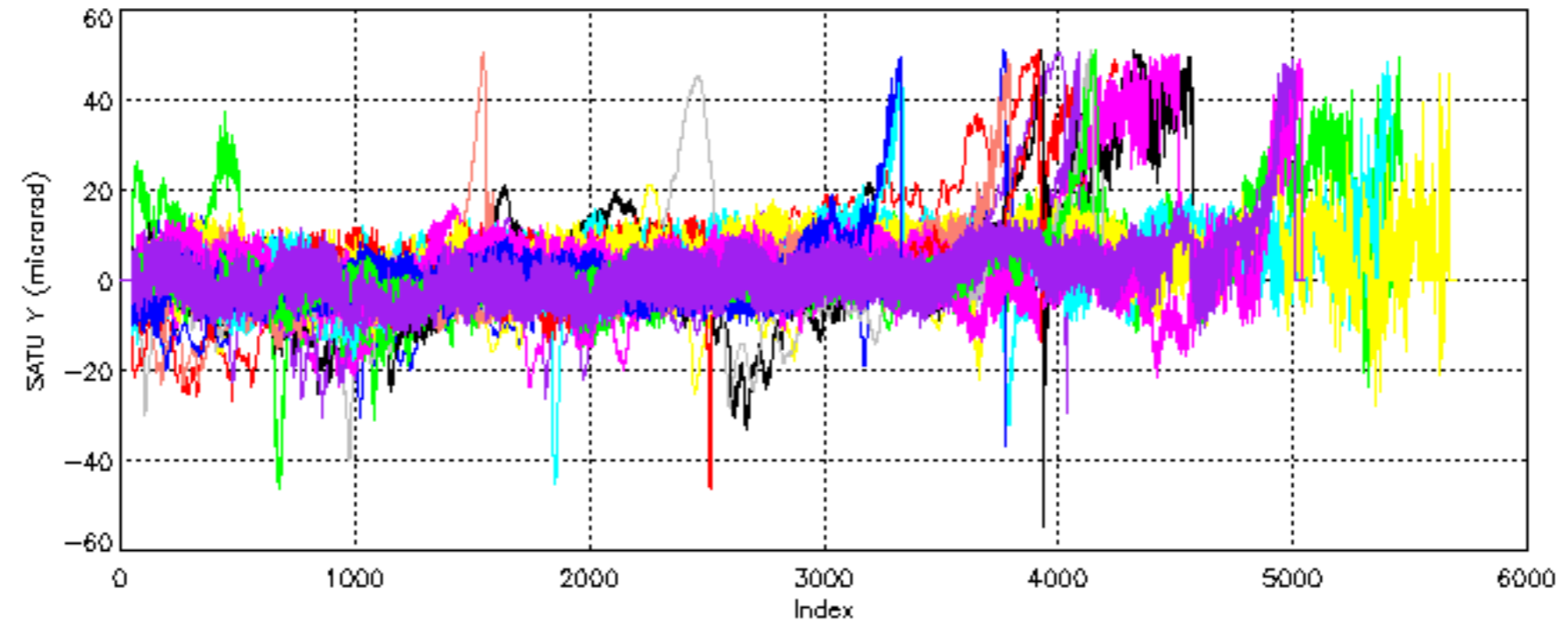
Tangent altitude at which the star is lost

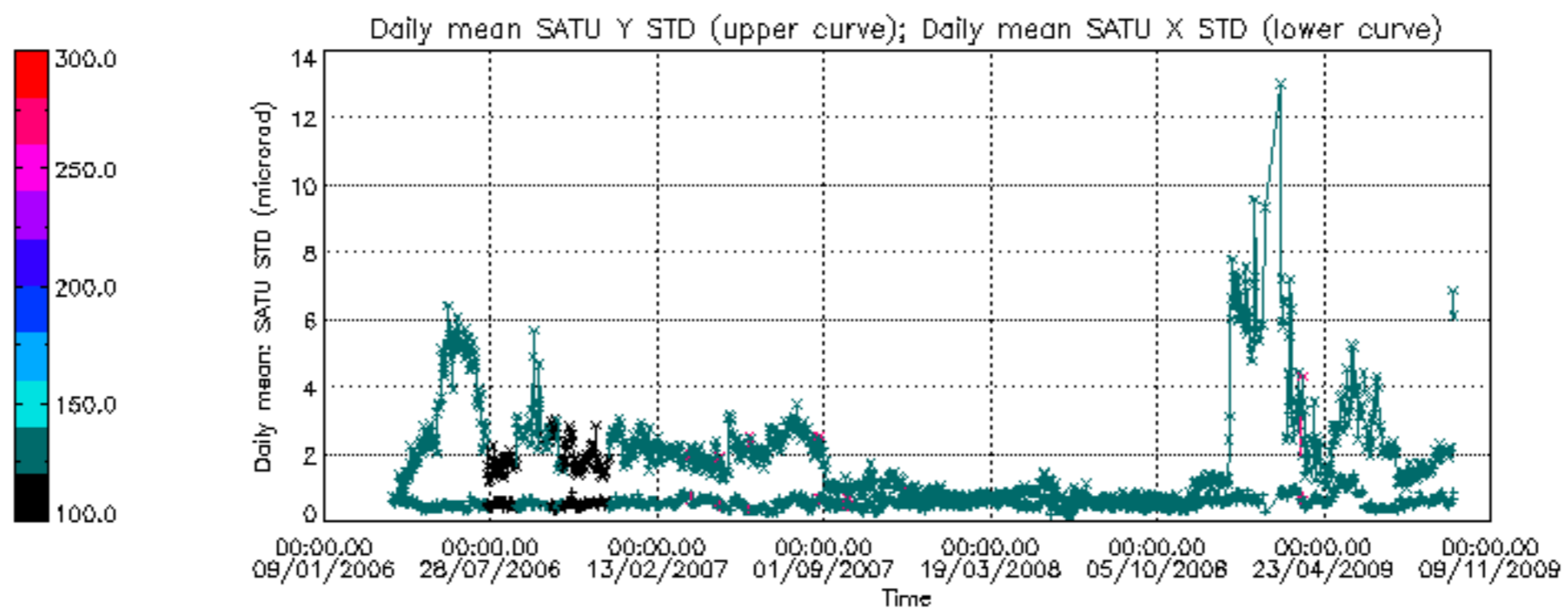


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__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
 9; -235.3; 01-SEP-2009 04:17:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39236
 10; 489.9; 01-SEP-2009 04:29:55; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39237
 11; 963.6; 01-SEP-2009 04:37:48; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39237
 12; 1330.4; 01-SEP-2009 04:43:55; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39237
 13; 2248.7; 01-SEP-2009 04:59:14; Bright; 70.0; 90; 54Alp Peg ; 2.49; 11000;occ; 140; 0;39237
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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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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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4; 3268.2; 01-SEP-2009 08:37:25; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39239
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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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9; 3116.4; 04-SEP-2009 01:58:14; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;39278
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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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 8; 4477.4; 13-SEP-2009 16:02:56; Bright; 61.0; 24; 66Alp Gem ; 1.58; 10200;occ; 122; 0;39415
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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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6; 3153.0; 13-SEP-2009 19:02:03; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39417
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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
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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
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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
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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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 3;-1369.5; 14-SEP-2009 07:11:28; Dark ; 61.5; 170; 27Eps Gem ; 3.00; 9700;occ; 123; 0;39424
 4;-1045.5; 14-SEP-2009 07:16:52; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;39424
 5; -510.6; 14-SEP-2009 07:25:47; Dark ; 54.5; 1; 9Alp CMA ; -1.44; 11000;occ; 109; 0;39424
 6; -372.6; 14-SEP-2009 07:28:05; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;39424
 7; -152.0; 14-SEP-2009 07:31:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39424
 8; -23.9; 14-SEP-2009 07:33:54; Dark ; 49.0; 108; Alp Col ; 2.65; 15200;occ; 98; 0;39424
 9; 703.5; 14-SEP-2009 07:46:01; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39425
10; 1524.0; 14-SEP-2009 07:59:42; Dark ; 60.0; 52; 16Bet Cet ; 2.04; 4500;occ; 120; 0;39425
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 3; 2417.9; 14-SEP-2009 08:14:36; Bright; 42.5; 93; 53Bet Peg ; 2.52; 3100;occ; 85; 0;39425
 4; 2553.3; 14-SEP-2009 08:16:51; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;39425
 5; 3038.2; 14-SEP-2009 08:24:56; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39425
 6; 3148.3; 14-SEP-2009 08:26:46; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39425
 7; 4171.7; 14-SEP-2009 08:43:49; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;39425
 8; 4478.4; 14-SEP-2009 08:48:56; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;39425
 9; 4666.8; 14-SEP-2009 08:52:05; Dark ; 58.5; 170; 27Eps Gem ; 3.00; 9700;occ; 117; 0;39425
10; 4991.0; 14-SEP-2009 08:57:29; Dark ; 58.5; 8; 10Alp CMi ; 0.40; 6500;occ; 117; 0;39425
11; 5526.4; 14-SEP-2009 09:06:24; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;39425
12; 5664.2; 14-SEP-2009 09:08:42; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;39425
13; 5884.7; 14-SEP-2009 09:12:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39425
14; 6013.3; 14-SEP-2009 09:14:31; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;39425
15; 6740.7; 14-SEP-2009 09:26:39; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39425
16; 7560.0; 14-SEP-2009 09:40:18; Dark ; 60.0; 52; 16Bet Cet ; 2.04; 4500;occ; 120; 0;39425
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 3; 2417.9; 14-SEP-2009 09:55:12; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;39426
 4; 2552.5; 14-SEP-2009 09:57:26; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39426
 5; 3037.7; 14-SEP-2009 10:05:31; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39426
 6; 3147.8; 14-SEP-2009 10:07:21; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;39426
 7; 4171.4; 14-SEP-2009 10:24:25; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;39426
 8; 4478.6; 14-SEP-2009 10:29:32; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;39426
 9; 4667.2; 14-SEP-2009 10:32:41; Dark ; 63.5; 170; 27Eps Gem ; 3.00; 9700;occ; 127; 0;39426
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13; 5885.6; 14-SEP-2009 10:52:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39426
14; 6741.7; 14-SEP-2009 11:07:15; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;39426
15; 7560.1; 14-SEP-2009 11:20:54; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;39426
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 3; 2417.6; 14-SEP-2009 11:35:47; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;39427
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 6; 3147.2; 14-SEP-2009 11:47:57; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;39427
 7; 4171.1; 14-SEP-2009 12:05:01; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;39427
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12; 5665.5; 14-SEP-2009 12:29:55; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;39427
13; 5886.5; 14-SEP-2009 12:33:36; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39427
14; 6742.7; 14-SEP-2009 12:47:52; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39427
15; 7560.4; 14-SEP-2009 13:01:30; Dark ; 56.5; 52; 16Bet Cet ; 2.04; 4500;occ; 113; 0;39427
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 5; 3036.7; 14-SEP-2009 13:26:42; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39428
 6; 3146.8; 14-SEP-2009 13:28:32; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39428
 7; 4170.8; 14-SEP-2009 13:45:36; Bright; 31.0; 42; 34Bet Aur ; 1.90; 10200;occ; 62; 0;39428
 8; 4478.9; 14-SEP-2009 13:50:44; Bright; 47.5; 24; 66Alp Gem ; 1.58; 10200;occ; 95; 0;39428
 9; 4667.9; 14-SEP-2009 13:53:53; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39428
 10; 4992.5; 14-SEP-2009 13:59:18; Dark ; 59.0; 8; 10Alp CMi ; 0.40; 6500;occ; 118; 0;39428
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 12; 5666.3; 14-SEP-2009 14:10:32; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;39428
 13; 5887.5; 14-SEP-2009 14:14:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39428
 14; 6016.9; 14-SEP-2009 14:16:22; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39428
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 3; 2281.8; 14-SEP-2009 14:54:43; Bright; 43.0; 140; 88Gam Peg ; 2.83; 26000;occ; 86; 0;39429
 4; 2417.1; 14-SEP-2009 14:56:58; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;39429
 5; 2550.4; 14-SEP-2009 14:59:12; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39429
 6; 3036.1; 14-SEP-2009 15:07:17; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39429
 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
 9; 4478.9; 14-SEP-2009 15:31:20; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;39429
 10; 4668.4; 14-SEP-2009 15:34:30; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39429
 11; 4993.3; 14-SEP-2009 15:39:55; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;39429
 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
 16; 6744.9; 14-SEP-2009 16:09:06; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39429

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 3; 2281.1; 14-SEP-2009 16:35:18; Bright; 49.5; 140; 88Gam Peg ; 2.83; 26000;occ; 99; 0;39430
 4; 2416.7; 14-SEP-2009 16:37:34; Bright; 43.0; 93; 53Bet Peg ; 2.52; 3100;occ; 86; 0;39430
 5; 2549.5; 14-SEP-2009 16:39:47; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39430
 6; 3035.7; 14-SEP-2009 16:47:53; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39430
 7; 3145.6; 14-SEP-2009 16:49:43; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;39430
 8; 4170.5; 14-SEP-2009 17:06:48; Bright; 26.0; 42; 34Bet Aur ; 1.90; 10200;occ; 52; 0;39430
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 10; 4668.7; 14-SEP-2009 17:15:06; Dark ; 59.5; 170; 27Eps Gem ; 3.00; 9700;occ; 119; 0;39430
 11; 4993.7; 14-SEP-2009 17:20:31; Dark ; 57.0; 8; 10Alp CMi ; 0.40; 6500;occ; 114; 0;39430
 12; 5531.5; 14-SEP-2009 17:29:29; Dark ; 59.0; 1; 9Alp CMA ; -1.44; 11000;occ; 118; 0;39430
 13; 5668.1; 14-SEP-2009 17:31:45; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;39430
 14; 5889.4; 14-SEP-2009 17:35:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39430
 15; 6019.5; 14-SEP-2009 17:37:37; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;39430
 16; 6745.9; 14-SEP-2009 17:49:43; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39430

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 3; 2280.3; 14-SEP-2009 18:15:54; Bright; 49.0; 140; 88Gam Peg ; 2.83; 26000;occ; 98; 0;39431
 4; 2416.5; 14-SEP-2009 18:18:10; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39431
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 6; 3035.3; 14-SEP-2009 18:28:29; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39431
 7; 3144.9; 14-SEP-2009 18:30:18; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39431
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 11; 4994.2; 14-SEP-2009 19:01:08; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;39431
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 13; 5669.0; 14-SEP-2009 19:12:22; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;39431
 14; 5890.3; 14-SEP-2009 19:16:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39431
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6; 1525.4; 15-SEP-2009 00:45:42; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39435
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9; 2415.4; 15-SEP-2009 01:00:32; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;39435
10; 2545.7; 15-SEP-2009 01:02:43; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39435
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12; 3142.5; 15-SEP-2009 01:12:39; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39435
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12; 3142.0; 15-SEP-2009 02:53:15; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39436
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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
3; 3077.5; 23-SEP-2009 15:25:12; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;39558
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2; 2204.5; 25-SEP-2009 22:30:24; Bright; 34.0; 140; 88Gam Peg ; 2.83; 26000;occ; 68; 0;39591
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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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
7; 2458.9; 26-SEP-2009 01:55:50; Bright; 25.0; 58; 21Alp And ; 2.07; 11000;occ; 50; 0;39593
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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4; -212.1; 26-SEP-2009 02:51:55; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;39593
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
9; 2203.4; 26-SEP-2009 03:32:11; Bright; 39.0; 140; 88Gam Peg ; 2.83; 26000;occ; 78; 0;39594
10; 2458.4; 26-SEP-2009 03:36:26; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;39594
11; 2714.3; 26-SEP-2009 03:40:42; Bright; 74.0; 53; 43Bet And ; 2.05; 3300;occ; 148; 0;39594
12; 2971.0; 26-SEP-2009 03:44:58; Bright; 1.0; 74; 11Bet Cas ; 2.27; 6600;occ; 2; 0;39594
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3; -296.2; 26-SEP-2009 04:31:07; Dark ; 33.0; 1; 9Alp CMA ; -1.44; 11000;occ; 66; 0;39594
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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11; 2713.8; 26-SEP-2009 05:21:17; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;39595
12; 2970.9; 26-SEP-2009 05:25:34; Bright; 33.5; 74; 11Bet Cas ; 2.27; 6600;occ; 67; 0;39595
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3; -294.8; 26-SEP-2009 06:11:45; Dark ; 33.0; 1; 9Alp CMA ; -1.44; 11000;occ; 66; 0;39595
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5; 20.2; 26-SEP-2009 06:17:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39596
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
8; 1547.7; 26-SEP-2009 06:42:27; Dark ; 38.5; 52; 16Bet Cet ; 2.04; 4500;occ; 77; 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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3; 2200.4; 26-SEP-2009 20:18:07; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;39604
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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3; -292.1; 26-SEP-2009 21:17:11; Dark ; 38.5; 88; 31Eta CMA ; 2.45; 20000;occ; 77; 0;39604
4; -199.4; 26-SEP-2009 21:18:43; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;39604
5; 30.2; 26-SEP-2009 21:22:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39605
6; 218.2; 26-SEP-2009 21:25:41; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39605
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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11; 2705.3; 26-SEP-2009 22:07:08; Bright; 44.5; 53; 43Bet And ; 2.05; 3300;occ; 89; 0;39605
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5; 870.7; 26-SEP-2009 23:17:09; Dark ; 42.0; 157; The1Eri ; 2.91; 9300;occ; 84; 0;39606
6; 1549.4; 26-SEP-2009 23:28:28; Dark ; 35.5; 52; 16Bet Cet ; 2.04; 4500;occ; 71; 0;39606
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11; 3055.6; 26-SEP-2009 23:53:34; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;39606
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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; 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
9; 5741.2; 26-SEP-2009 14:34:44; Dark ; 23.5; 88; 31Eta CMA ; 2.45; 20000;occ; 47; 0;39600
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12; 6247.8; 26-SEP-2009 14:43:11; Dark ; 3.0; 108; Alp Col ; 2.65; 15200;occ; 6; 0;39600
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6; 3059.1; 26-SEP-2009 15:30:38; Bright; 17.5; 76; 27Gam Cas ; 2.30; 30000;occ; 35; 0;39601
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