

GOMOS Daily Report 18-OCT-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	20OCT2009 04:33:01
Data source version	GOMOS/5.00L03
Start time of products	18OCT2009 00:00:33
Stop time of products	18OCT2009 23:56:54
Store outputs in DB	Yes
Nb of level 1b prods	88
Nb of prods with errors	0

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

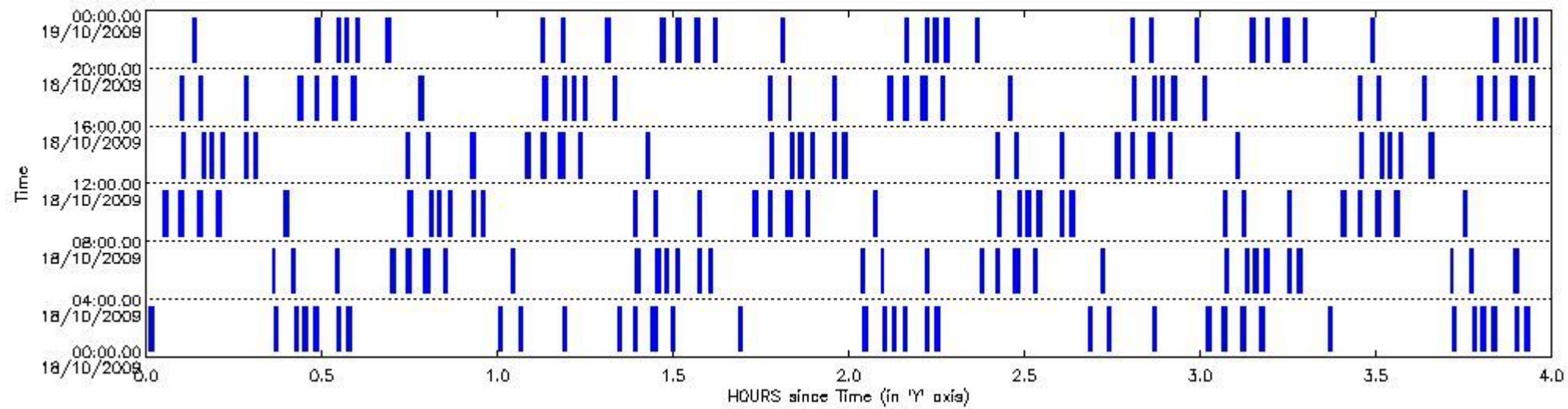
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

No missing products.

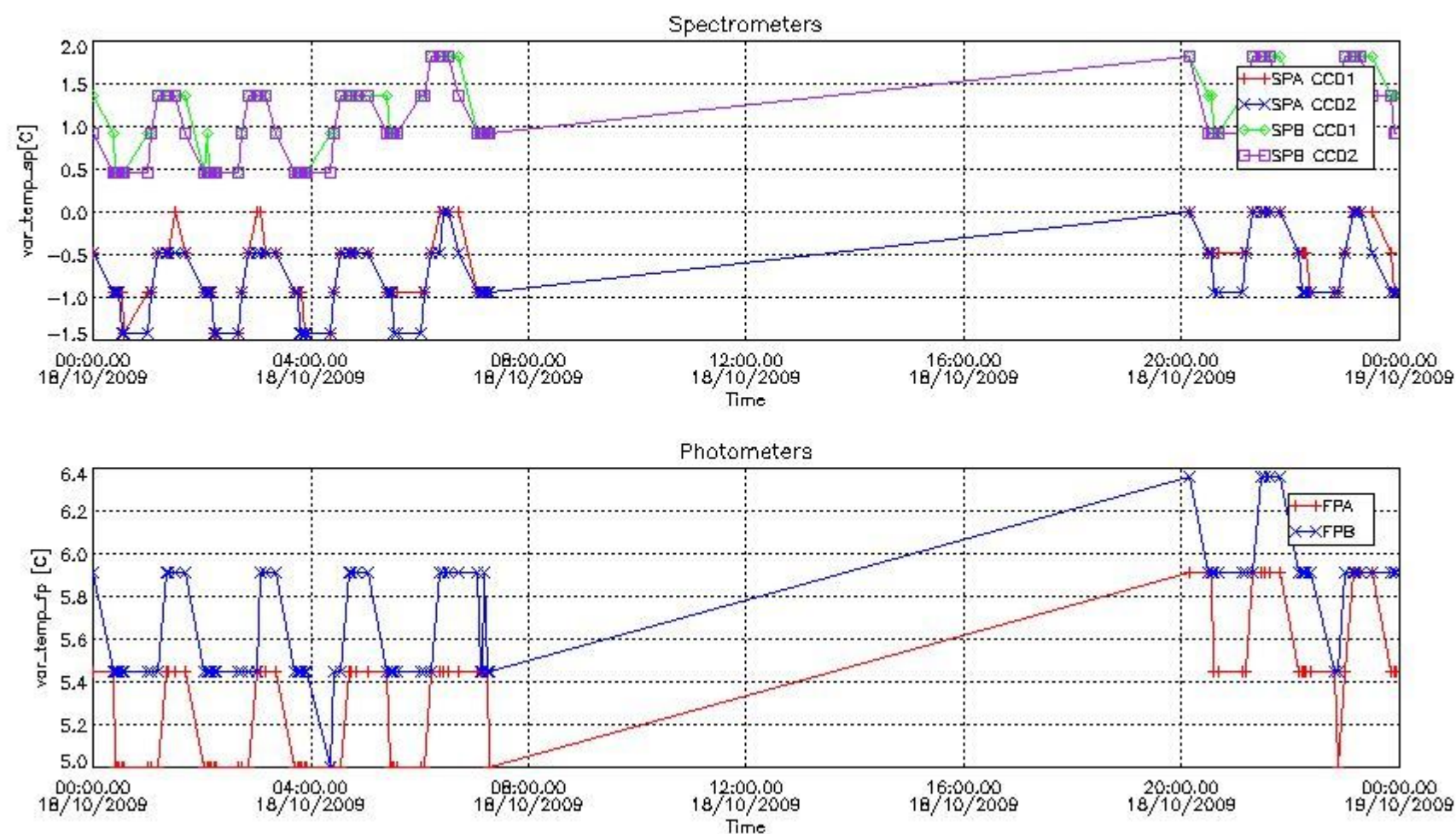
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091018_000033_000000352083_00274_39907_1243.N1	18-OCT-2009 00:00:33	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39907	No
2	GOM_TRA_1PNPDE20091018_002147_000000392083_00274_39907_1244.N1	18-OCT-2009 00:21:47	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	39907	No
3	GOM_TRA_1PNPDE20091018_002518_000000352083_00274_39907_1245.N1	18-OCT-2009 00:25:18	Bright	34.500	53	43Bet And	2.0480	3300.0	69	39907	No
4	GOM_TRA_1PNPDE20091018_002644_000000402083_00274_39907_1246.N1	18-OCT-2009 00:26:44	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	39907	No
5	GOM_TRA_1PNPDE20091018_002838_000000382083_00274_39907_1247.N1	18-OCT-2009 00:28:38	Bright	38.000	73	57Gam1And	2.2600	13100.	76	39907	No
6	GOM_TRA_1PNPDE20091018_003231_000000332083_00274_39907_1248.N1	18-OCT-2009 00:32:31	Bright	33.000	110	37Del Cas	2.6780	8900.0	66	39907	No
7	GOM_TRA_1PNPDE20091018_003411_000000442083_00274_39907_1249.N1	18-OCT-2009 00:34:11	Bright	43.500	35	33Alp Per	1.7950	6250.0	87	39907	No
8	GOM_TRA_1PNPDE20091018_010015_000000302083_00274_39907_1250.N1	18-OCT-2009 01:00:15	Twl_and_stray	30.000	166	17Eps Leo	2.9800	6000.0	60	39907	No
9	GOM_TRA_1PNPDE20091018_010336_000000282083_00274_39907_1251.N1	18-OCT-2009 01:03:36	Bright	27.500	22	32Alp Leo	1.3600	15200.	55	39907	No
10	GOM_TRA_1PNPDE20091018_011110_000000342083_00274_39907_1252.N1	18-OCT-2009 01:11:10	Dark	34.000	48	30Alp Hya	1.9770	4100.0	68	39907	No
11	GOM_TRA_1PNPDE20091018_012024_000000472083_00274_39907_1246.N1	18-OCT-2009 01:20:24	Dark	46.500	132	15Rho Pup	2.8030	6900.0	93	39907	No
12	GOM_TRA_1PNPDE20091018_012310_000000392083_00274_39907_1247.N1	18-OCT-2009 01:23:10	Dark	39.000	70	Zet Pup	2.2460	39000.	78	39907	No

13	GOM_TRA_1PNPDE20091018_012933_000000382083_00275_39908_1248.N1	18-OCT-2009 01:29:33	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39908	No
14	GOM_TRA_1PNPDE20091018_014109_000000362083_00275_39908_1249.N1	18-OCT-2009 01:41:09	Straylight	35.500	157	The1Eri	2.9060	9300.0	71	39908	No
15	GOM_TRA_1PNPDE20091018_020223_000000392083_00275_39908_1250.N1	18-OCT-2009 02:02:23	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	39908	No
16	GOM_TRA_1PNPDE20091018_020553_000000352083_00275_39908_1251.N1	18-OCT-2009 02:05:53	Bright	34.500	53	43Bet And	2.0480	3300.0	69	39908	No
17	GOM_TRA_1PNPDE20091018_020719_000000402083_00275_39908_1252.N1	18-OCT-2009 02:07:19	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	39908	No
18	GOM_TRA_1PNPDE20091018_020914_000000392083_00275_39908_1253.N1	18-OCT-2009 02:09:14	Bright	38.500	73	57Gam1And	2.2600	13100.	77	39908	No
19	GOM_TRA_1PNPDE20091018_021307_000000332083_00275_39908_1254.N1	18-OCT-2009 02:13:07	Bright	32.500	110	37Del Cas	2.6780	8900.0	65	39908	No
20	GOM_TRA_1PNPDE20091018_021446_000000432083_00275_39908_1255.N1	18-OCT-2009 02:14:46	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	39908	No
21	GOM_TRA_1PNPDE20091018_024052_000000302083_00275_39908_1253.N1	18-OCT-2009 02:40:52	Tw_i_and_stray	30.000	166	17Eps Leo	2.9800	6000.0	60	39908	No
22	GOM_TRA_1PNPDE20091018_024411_000000292083_00275_39908_1254.N1	18-OCT-2009 02:44:11	Bright	29.000	22	32Alp Leo	1.3600	15200.	58	39908	No
23	GOM_TRA_1PNPDE20091018_025146_000000352083_00275_39908_1255.N1	18-OCT-2009 02:51:46	Dark	34.500	48	30Alp Hya	1.9770	4100.0	69	39908	No
24	GOM_TRA_1PNPDE20091018_030101_000000472083_00275_39908_1256.N1	18-OCT-2009 03:01:01	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	39908	No
25	GOM_TRA_1PNPDE20091018_030347_000000392083_00275_39908_1257.N1	18-OCT-2009 03:03:47	Dark	38.500	70	Zet Pup	2.2460	39000.	77	39908	No
26	GOM_TRA_1PNPDE20091018_031009_000000382083_00276_39909_1258.N1	18-OCT-2009 03:10:09	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39909	No
27	GOM_TRA_1PNPDE20091018_032146_000000352083_00276_39909_1259.N1	18-OCT-2009 03:21:46	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39909	No
28	GOM_TRA_1PNPDE20091018_034258_000000392083_00276_39909_1260.N1	18-OCT-2009 03:42:58	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	39909	No
29	GOM_TRA_1PNPDE20091018_034629_000000352083_00276_39909_1261.N1	18-OCT-2009 03:46:29	Bright	34.500	53	43Bet And	2.0480	3300.0	69	39909	No
30	GOM_TRA_1PNPDE20091018_034755_000000402083_00276_39909_1262.N1	18-OCT-2009 03:47:55	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	39909	No
31	GOM_TRA_1PNPDE20091018_034949_000000382083_00276_39909_1263.N1	18-OCT-2009 03:49:49	Bright	38.000	73	57Gam1And	2.2600	13100.	76	39909	No
32	GOM_TRA_1PNPDE20091018_035342_000000332083_00276_39909_1264.N1	18-OCT-2009 03:53:42	Bright	33.000	110	37Del Cas	2.6780	8900.0	66	39909	No
33	GOM_TRA_1PNPDE20091018_035521_000000432083_00276_39909_1265.N1	18-OCT-2009 03:55:21	Bright	43.000	35	33Alp Per	1.7950	6250.0	86	39909	No
34	GOM_TRA_1PNPDE20091018_042128_000000302083_00276_39909_1262.N1	18-OCT-2009 04:21:28	Tw_i_and_stray	30.000	166	17Eps Leo	2.9800	6000.0	60	39909	No
35	GOM_TRA_1PNPDE20091018_042447_000000292083_00276_39909_1263.N1	18-OCT-2009 04:24:47	Bright	29.000	22	32Alp Leo	1.3600	15200.	58	39909	No
36	GOM_TRA_1PNPDE20091018_043223_000000352083_00276_39909_1264.N1	18-OCT-2009 04:32:23	Dark	34.500	48	30Alp Hya	1.9770	4100.0	69	39909	No
37	GOM_TRA_1PNPDE20091018_044139_000000472083_00276_39909_1265.N1	18-OCT-2009 04:41:39	Dark	46.500	132	15Rho Pup	2.8030	6900.0	93	39909	No
38	GOM_TRA_1PNPDE20091018_044424_000000392083_00276_39909_1266.N1	18-OCT-2009 04:44:24	Dark	38.500	70	Zet Pup	2.2460	39000.	77	39909	No
39	GOM_TRA_1PNPDE20091018_045046_000000382083_00277_39910_1267.N1	18-OCT-2009 04:50:46	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39910	No
40	GOM_TRA_1PNPDE20091018_050222_000000352083_00277_39910_1268.N1	18-OCT-2009 05:02:22	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39910	No
41	GOM_TRA_1PNPDE20091018_052334_000000392083_00277_39910_1269.N1	18-OCT-2009 05:23:34	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	39910	No
42	GOM_TRA_1PNPDE20091018_052705_000000342083_00277_39910_1270.N1	18-OCT-2009 05:27:05	Bright	34.000	53	43Bet And	2.0480	3300.0	68	39910	No
43	GOM_TRA_1PNPDE20091018_052831_000000402083_00277_39910_1271.N1	18-OCT-2009 05:28:31	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	39910	No
44	GOM_TRA_1PNPDE20091018_053024_000000392083_00277_39910_1272.N1	18-OCT-2009 05:30:24	Bright	38.500	73	57Gam1And	2.2600	13100.	77	39910	No
45	GOM_TRA_1PNPDE20091018_053418_000000332083_00277_39910_1273.N1	18-OCT-2009 05:34:18	Bright	32.500	110	37Del Cas	2.6780	8900.0	65	39910	No
46	GOM_TRA_1PNPDE20091018_053556_000000432083_00277_39910_1274.N1	18-OCT-2009 05:35:56	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	39910	No
47	GOM_TRA_1PNPDE20091018_060204_000000302083_00277_39910_1270.N1	18-OCT-2009 06:02:04	Tw_i_and_stray	30.000	166	17Eps Leo	2.9800	6000.0	60	39910	No
48	GOM_TRA_1PNPDE20091018_060523_000000292083_00277_39910_1271.N1	18-OCT-2009 06:05:23	Bright	29.000	22	32Alp Leo	1.3600	15200.	58	39910	No
49	GOM_TRA_1PNPDE20091018_061300_000000352083_00277_39910_1272.N1	18-OCT-2009 06:13:00	Dark	34.500	48	30Alp Hya	1.9770	4100.0	69	39910	No
50	GOM_TRA_1PNPDE20091018_062216_000000472083_00277_39910_1273.N1	18-OCT-2009 06:22:16	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	39910	No
51	GOM_TRA_1PNPDE20091018_062501_000000392083_00277_39910_1274.N1	18-OCT-2009 06:25:01	Dark	39.000	70	Zet Pup	2.2460	39000.	78	39910	No
52	GOM_TRA_1PNPDE20091018_063123_000000392083_00278_39911_1275.N1	18-OCT-2009 06:31:23	Dark	38.500	2	Alp Car	-0.73600	7000.0	77	39911	No
53	GOM_TRA_1PNPDE20091018_064259_000000352083_00278_39911_1276.N1	18-OCT-2009 06:42:59	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39911	No
54	GOM_TRA_1PNPDE20091018_070409_000000392083_00278_39911_1277.N1	18-OCT-2009 07:04:09	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	39911	No
55	GOM_TRA_1PNPDE20091018_070740_000000352083_00278_39911_1278.N1	18-OCT-2009 07:07:40	Bright	34.500	53	43Bet And	2.0480	3300.0	69	39911	No
56	GOM_TRA_1PNPDE20091018_070906_000000402083_00278_39911_1279.N1	18-OCT-2009 07:09:06	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	39911	No
57	GOM_TRA_1PNPDE20091018_071100_000000382083_00278_39911_1280.N1	18-OCT-2009 07:11:00	Bright	38.000	73	57Gam1And	2.2600	13100.	76	39911	No
58	GOM_TRA_1PNPDE20091018_071454_000000332083_00278_39911_1281.N1	18-OCT-2009 07:14:54	Bright	33.000	110	37Del Cas	2.6780	8900.0	66	39911	No
59	GOM_TRA_1PNPDE20091018_071631_000000432083_00278_39911_1282.N1	18-OCT-2009 07:16:31	Bright	43.000	35	33Alp Per	1.7950	6250.0	86	39911	No
60	GOM_TRA_1PNPDE20091018_200750_000000352083_00286_39919_1317.N1	18-OCT-2009 20:07:50	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39919	No
61	GOM_TRA_1PNPDE20091018_202853_000000392083_00286_39919_1318.N1	18-OCT-2009 20:28:53	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	39919	No
62	GOM_TRA_1PNPDE20091018_203226_000000342083_00286_39919_1319.N1	18-OCT-2009 20:32:26	Bright	34.000	53	43Bet And	2.0480	3300.0	68	39919	No
63	GOM_TRA_1PNPDE20091018_203348_000000402083_00286_39919_1320.N1	18-OCT-2009 20:33:48	Bright	39.500	173	4Bet Tri	3.0040	8900.0	79	39919	No
64	GOM_TRA_1PNPDE20091018_203543_000000382083_00286_39919_1321.N1	18-OCT-2009 20:35:43	Bright	38.000	73	57Gam1And	2.2600	13100.	76	39919	No
65	GOM_TRA_1PNPDE20091018_204054_000000402083_00286_39919_1322.N1	18-OCT-2009 20:40:54	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	39919	No
66	GOM_TRA_1PNPDE20091018_210730_000000312083_00286_39919_1323.N1	18-OCT-2009 21:07:30	Tw_i_and_stray	30.500	166	17Eps Leo	2.9800	6000.0	61	39919	No
67	GOM_TRA_1PNPDE20091018_211051_000000292083_00286_39919_1324.N1	18-OCT-2009 21:10:51	Bright	29.000	22	32Alp Leo	1.3600	15200.	58	39919	No
68	GOM_TRA_1PNPDE20091018_211830_000000362083_00286_39919_1323.N1	18-OCT-2009 21:18:30	Dark	35.500	48	30Alp Hya	1.9770	4100.0	71	39919	No
69	GOM_TRA_1PNPDE20091018_212752_000000482083_00286_39919_1324.N1	18-OCT-2009 21:27:52	Dark	47.500	132	15Rho Pup	2.8030	6900.0	95	39919	No
70	GOM_TRA_1PNPDE20091018_213033_000000392083_00286_39919_1325.N1	18-OCT-2009 21:30:33	Dark	39.000	70	Zet Pup	2.2460	39000.	78	39919	No
71	GOM_TRA_1PNPDE20091018_213654_000000382083_00287_39920_1326.N1	18-OCT-2009 21:36:54	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39920	No

72	GOM_TRA_1PNPDE20091018_214827_000000352083_00287_39920_1327.N1	18-OCT-2009 21:48:27	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39920	No
73	GOM_TRA_1PNPDE20091018_220928_000000392083_00287_39920_1328.N1	18-OCT-2009 22:09:28	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	39920	No
74	GOM_TRA_1PNPDE20091018_221302_000000342083_00287_39920_1329.N1	18-OCT-2009 22:13:02	Bright	34.000	53	43Bet And	2.0480	3300.0	68	39920	No
75	GOM_TRA_1PNPDE20091018_221423_000000402083_00287_39920_1330.N1	18-OCT-2009 22:14:23	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	39920	No
76	GOM_TRA_1PNPDE20091018_221618_000000392083_00287_39920_1331.N1	18-OCT-2009 22:16:18	Bright	38.500	73	57Gam1And	2.2600	13100.	77	39920	No
77	GOM_TRA_1PNPDE20091018_222129_000000402083_00287_39920_1332.N1	18-OCT-2009 22:21:29	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	39920	No
78	GOM_TRA_1PNPDE20091018_224806_000000312083_00287_39920_1333.N1	18-OCT-2009 22:48:06	Twilight_stray	30.500	166	17Eps Leo	2.9800	6000.0	61	39920	No
79	GOM_TRA_1PNPDE20091018_225127_000000292083_00287_39920_1334.N1	18-OCT-2009 22:51:27	Bright	29.000	22	32Alp Leo	1.3600	15200.	58	39920	No
80	GOM_TRA_1PNPDE20091018_225907_000000352083_00287_39920_1335.N1	18-OCT-2009 22:59:07	Dark	34.500	48	30Alp Hya	1.9770	4100.0	69	39920	No
81	GOM_TRA_1PNPDE20091018_230830_000000482083_00287_39920_1331.N1	18-OCT-2009 23:08:30	Dark	47.500	132	15Rho Pup	2.8030	6900.0	95	39920	No
82	GOM_TRA_1PNPDE20091018_231110_000000392083_00287_39920_1332.N1	18-OCT-2009 23:11:10	Dark	39.000	70	Zet Pup	2.2460	39000.	78	39920	No
83	GOM_TRA_1PNPDE20091018_231731_000000382083_00288_39921_1333.N1	18-OCT-2009 23:17:31	Dark	38.000	2	Alp Car	-0.73600	7000.0	76	39921	No
84	GOM_TRA_1PNPDE20091018_232903_000000352083_00288_39921_1334.N1	18-OCT-2009 23:29:03	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39921	No
85	GOM_TRA_1PNPDE20091018_235004_000000392083_00288_39921_1335.N1	18-OCT-2009 23:50:04	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	39921	No
86	GOM_TRA_1PNPDE20091018_235337_000000352083_00288_39921_1336.N1	18-OCT-2009 23:53:37	Bright	34.500	53	43Bet And	2.0480	3300.0	69	39921	No
87	GOM_TRA_1PNPDE20091018_235459_000000402083_00288_39921_1337.N1	18-OCT-2009 23:54:59	Bright	39.500	173	4Bet Tri	3.0040	8900.0	79	39921	No
88	GOM_TRA_1PNPDE20091018_235654_000000382083_00288_39921_1338.N1	18-OCT-2009 23:56:54	Bright	38.000	73	57Gam1And	2.2600	13100.	76	39921	No

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



4. Overview of dark signal processing per product

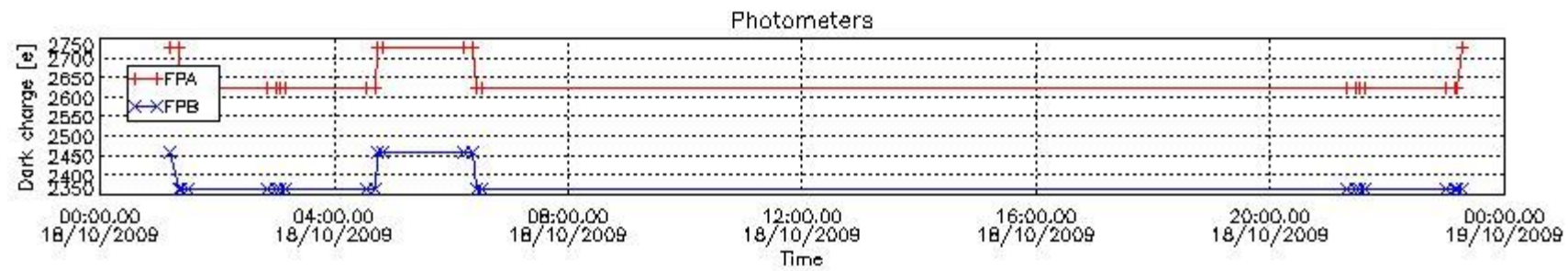
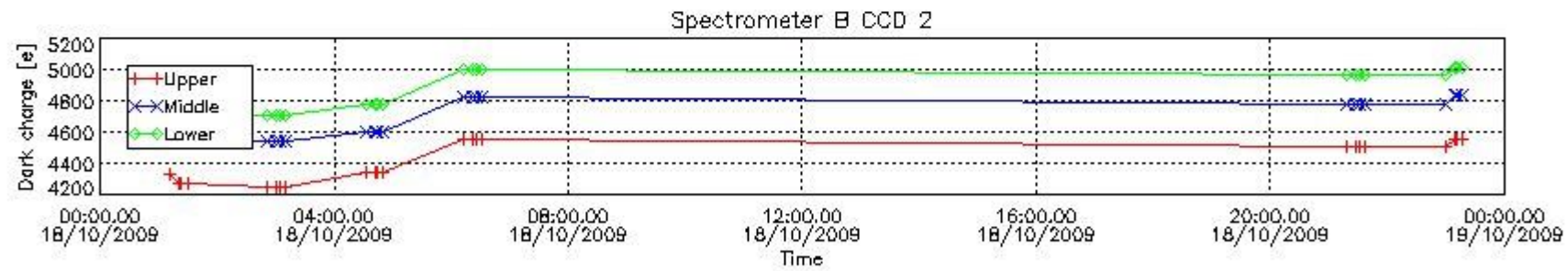
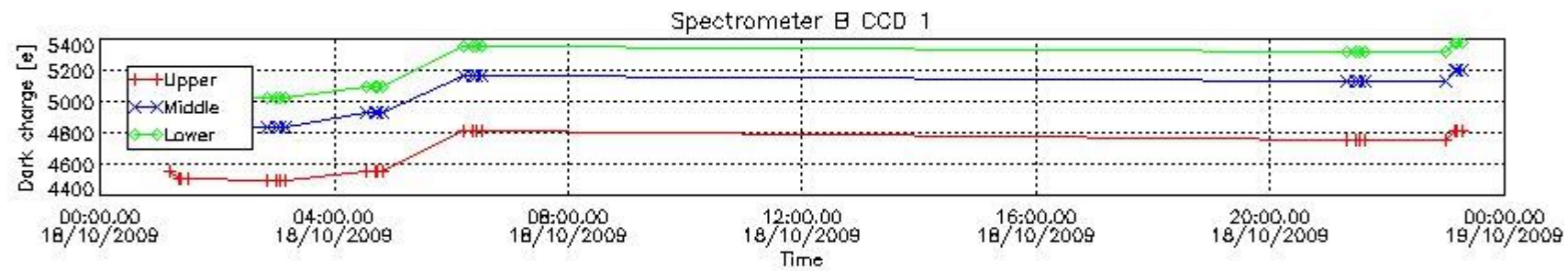
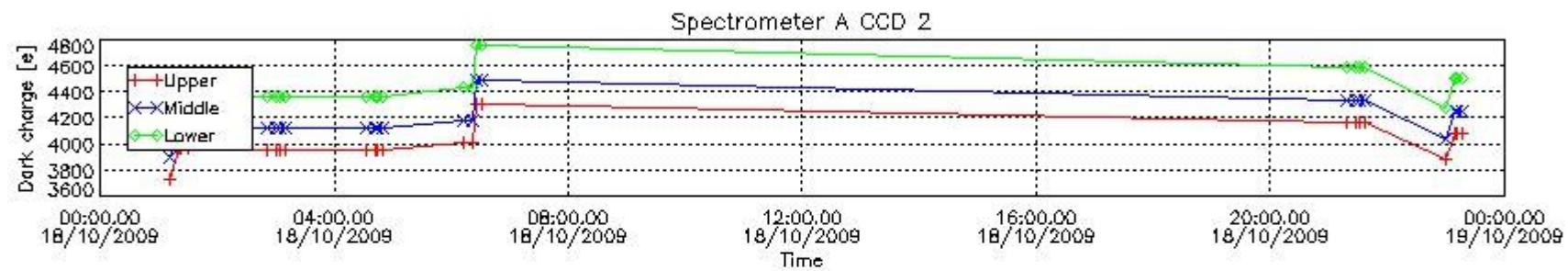
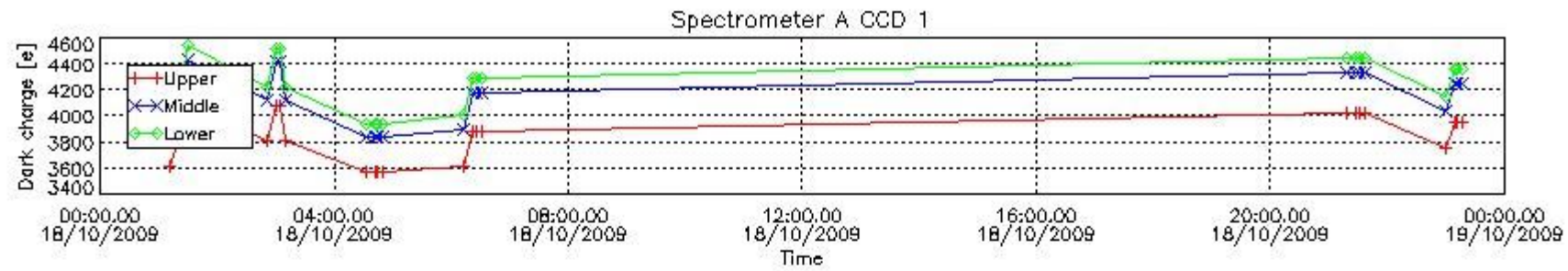
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091018_200750_000000352083_00286_39919_1317.N1	DC map used
GOM_TRA_1PNPDE20091018_202853_000000392083_00286_39919_1318.N1	DC map used
GOM_TRA_1PNPDE20091018_203226_000000342083_00286_39919_1319.N1	DC map used
GOM_TRA_1PNPDE20091018_203348_000000402083_00286_39919_1320.N1	DC map used
GOM_TRA_1PNPDE20091018_203543_000000382083_00286_39919_1321.N1	DC map used
GOM_TRA_1PNPDE20091018_204054_000000402083_00286_39919_1322.N1	DC map used
GOM_TRA_1PNPDE20091018_210730_000000312083_00286_39919_1323.N1	DC map used
GOM_TRA_1PNPDE20091018_211051_000000292083_00286_39919_1324.N1	DC map used

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



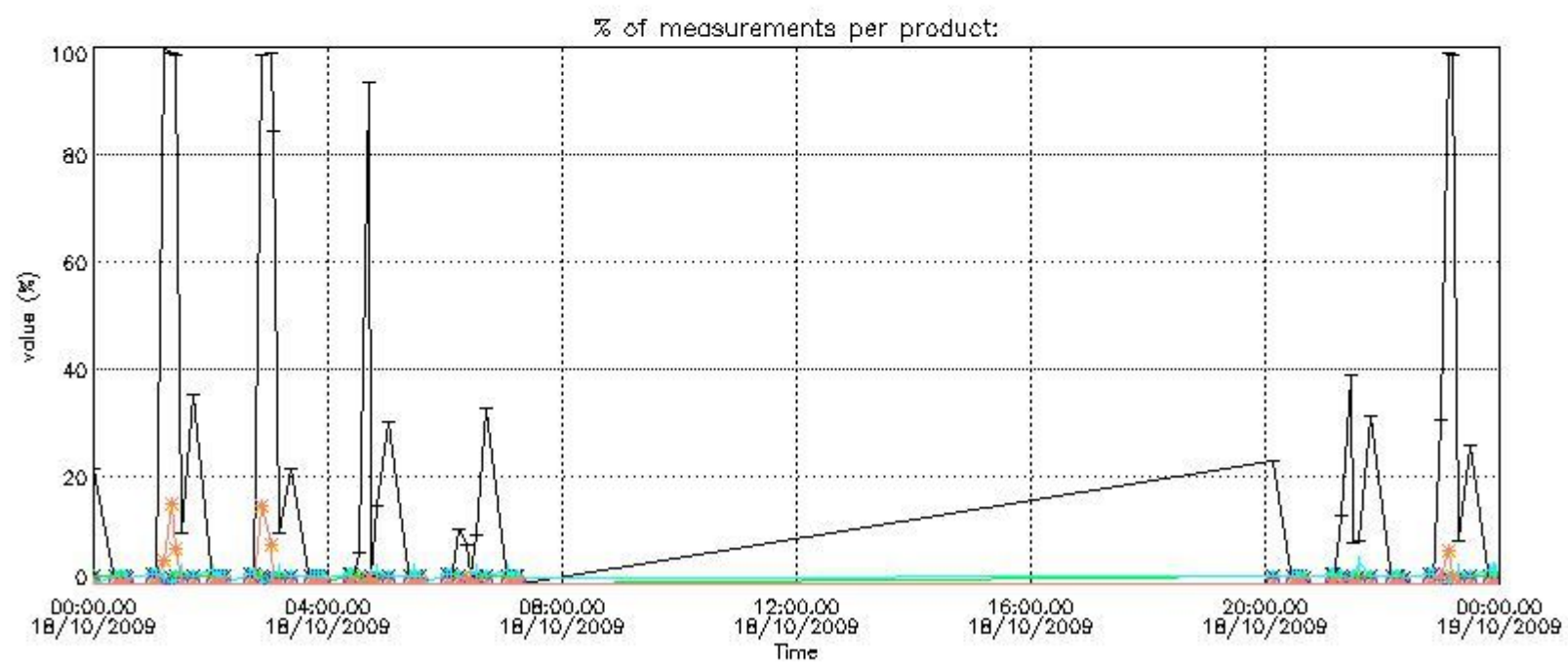
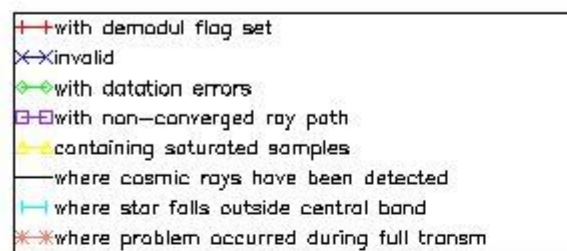
5. Demodulation flag and quality information monitoring

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.

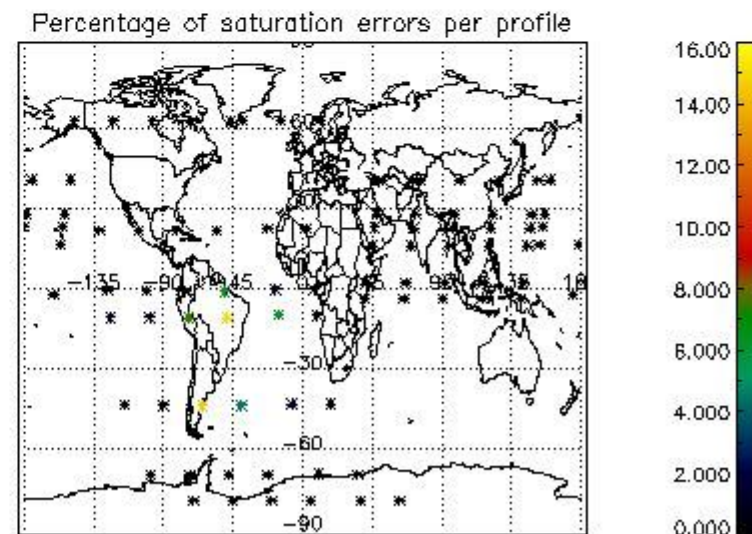
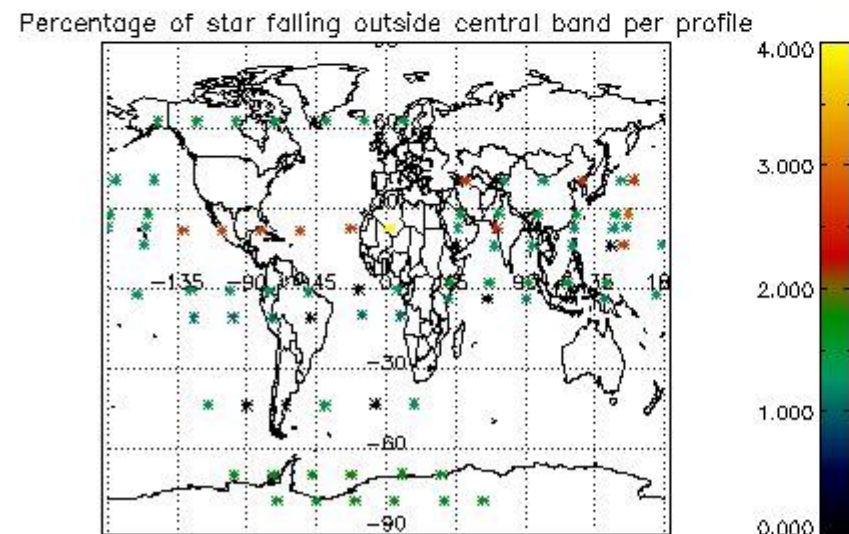
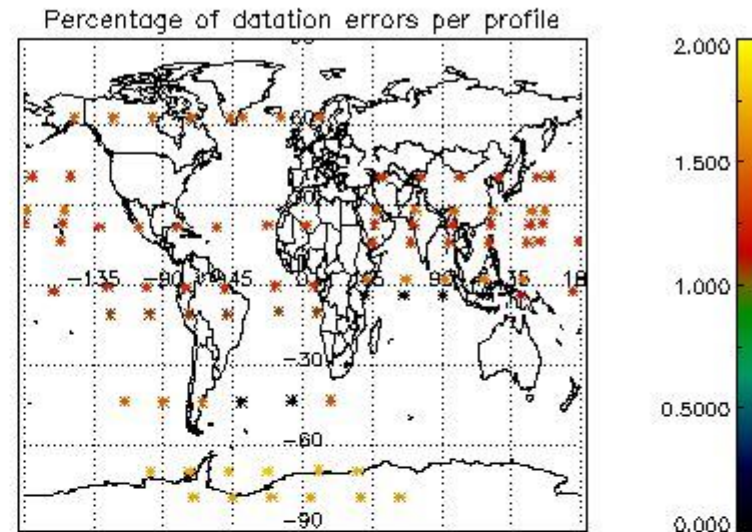
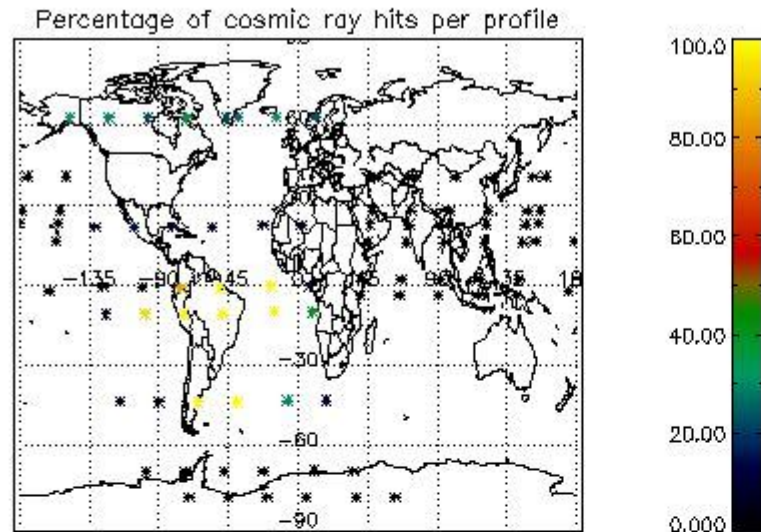
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	27.2727 %
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)



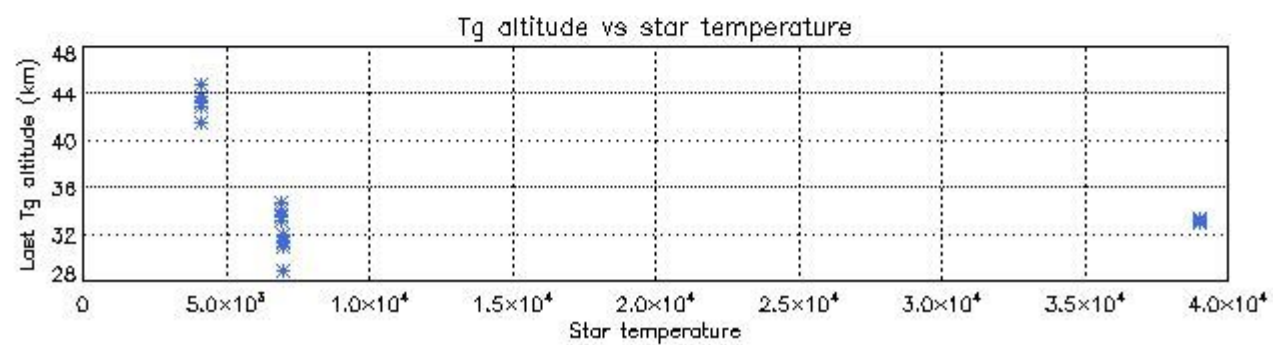
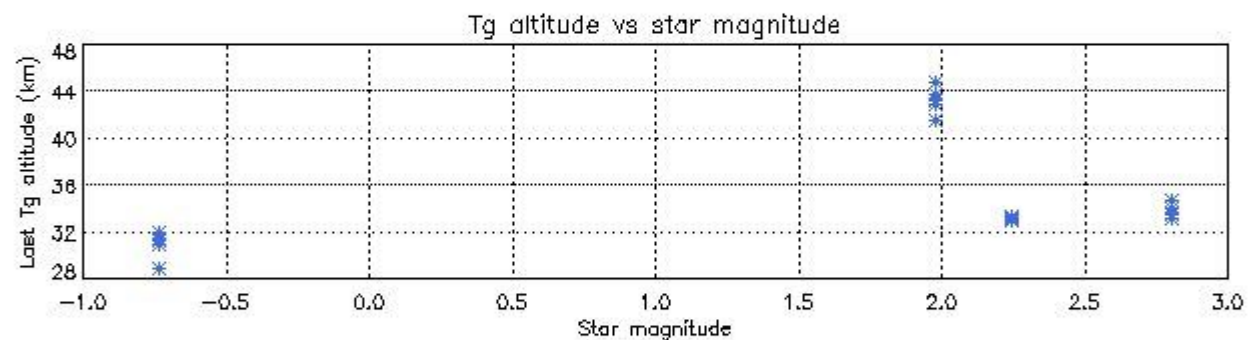
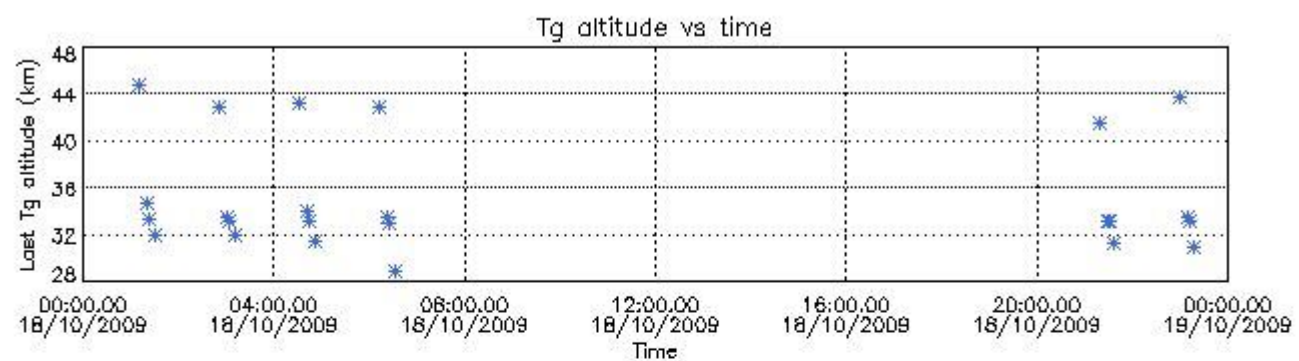
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	35.263	35.522	NaN
St. deviation:	4.8313	5.5574	NaN
Maximum:	44.706	50.145	NaN
Minimum:	28.833	31.267	NaN
Number of data:	24.000	50.000	NaN

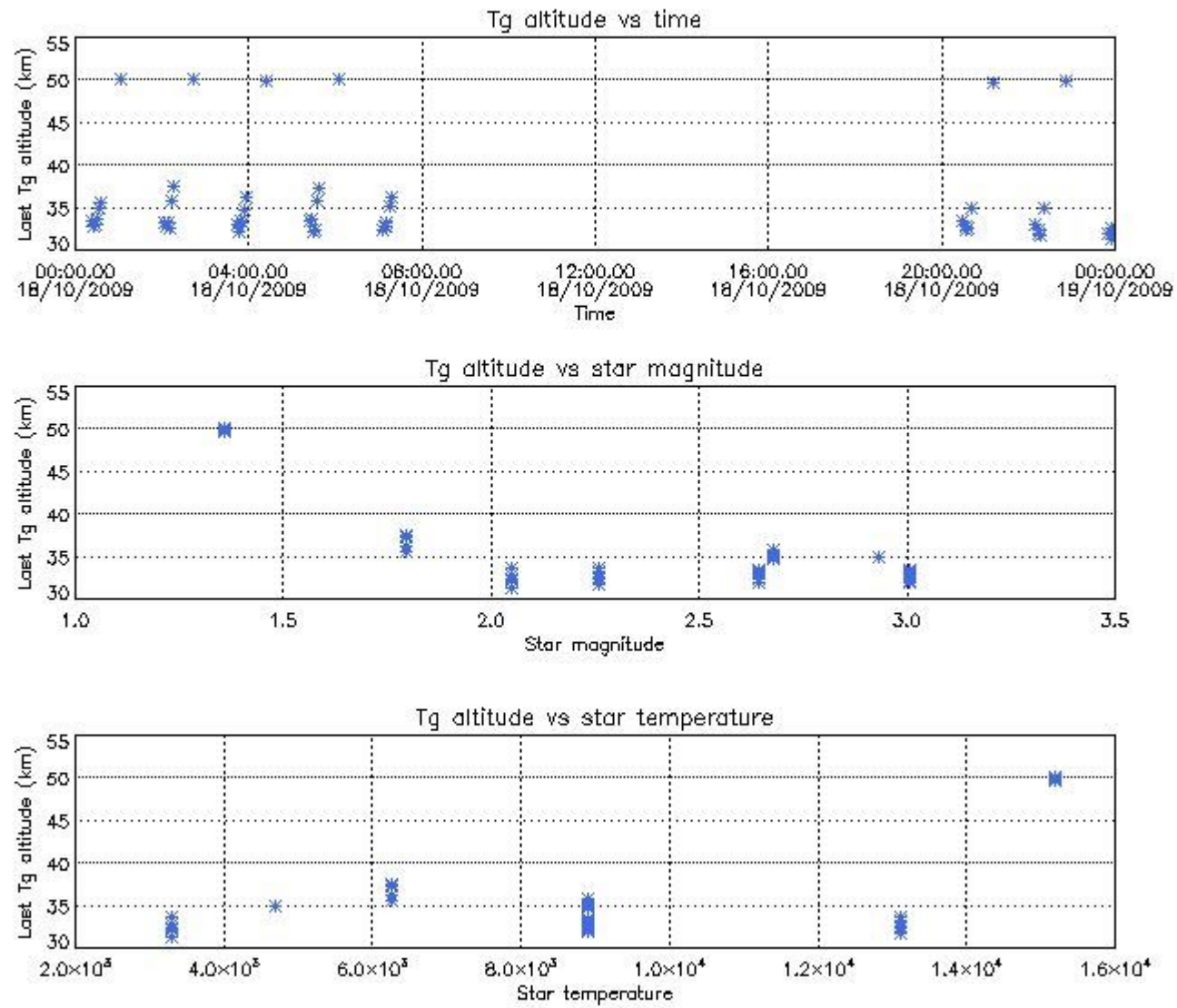
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

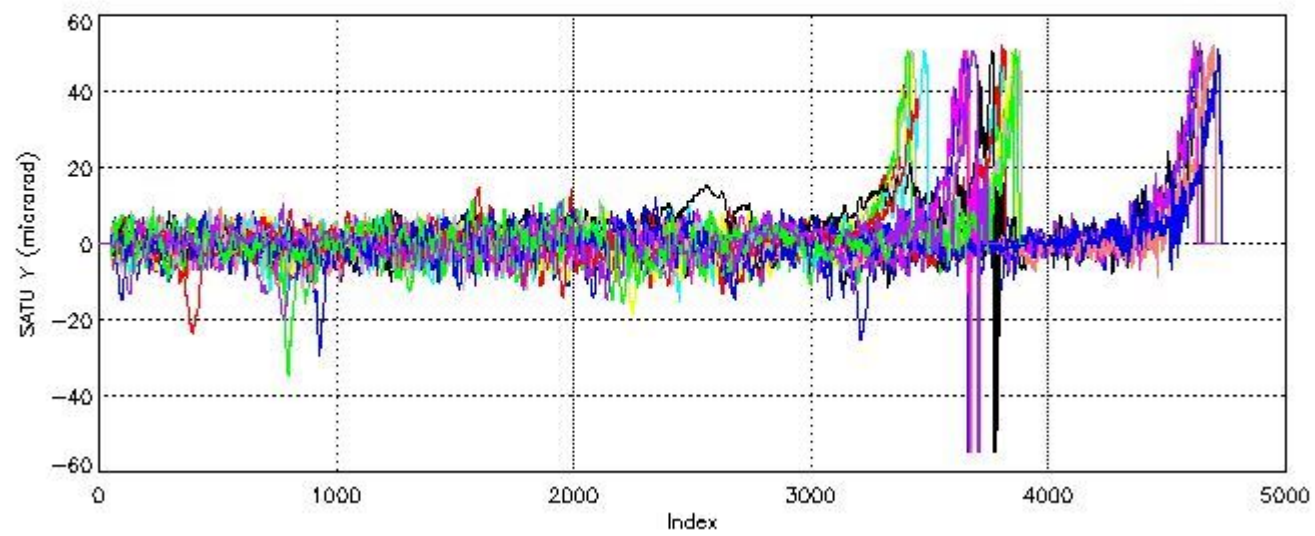
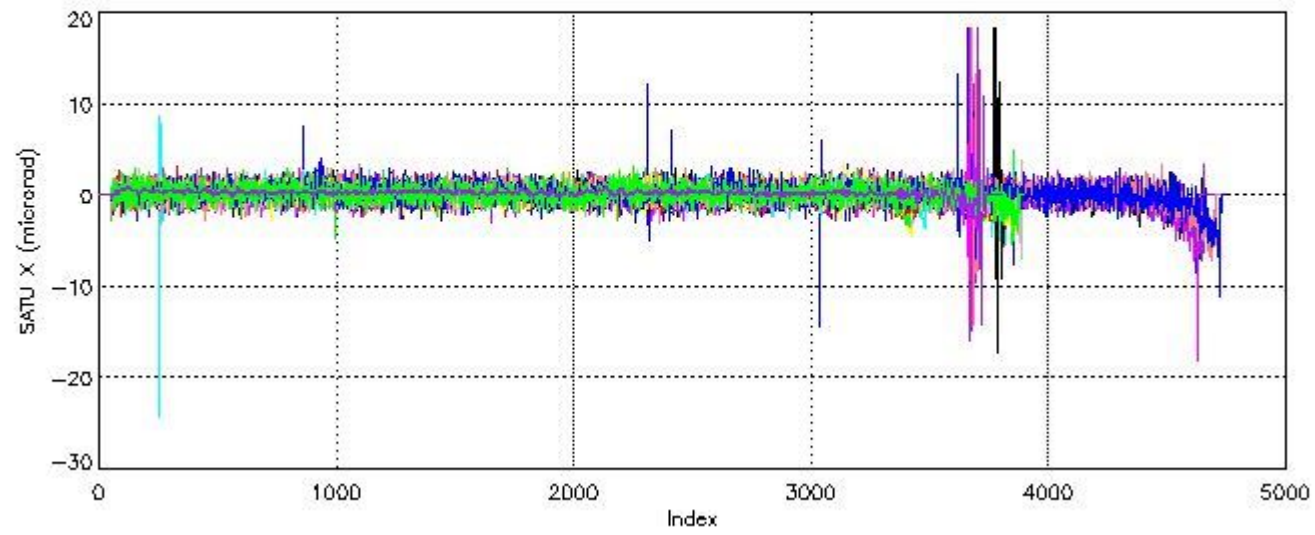


7. Star Acquisition and Tracking Unit (SATU)

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:	0.27083	-0.46429	0.26865	-0.51959
St. deviation:	0.53411	3.3484	0.82572	4.1177
Maximum:	8.7000	10.600	7.1000	16.200
Minimum:	-24.400	-34.700	-5.6000	-47.100

Number of data:	27600.	27600.	53000.	53000.
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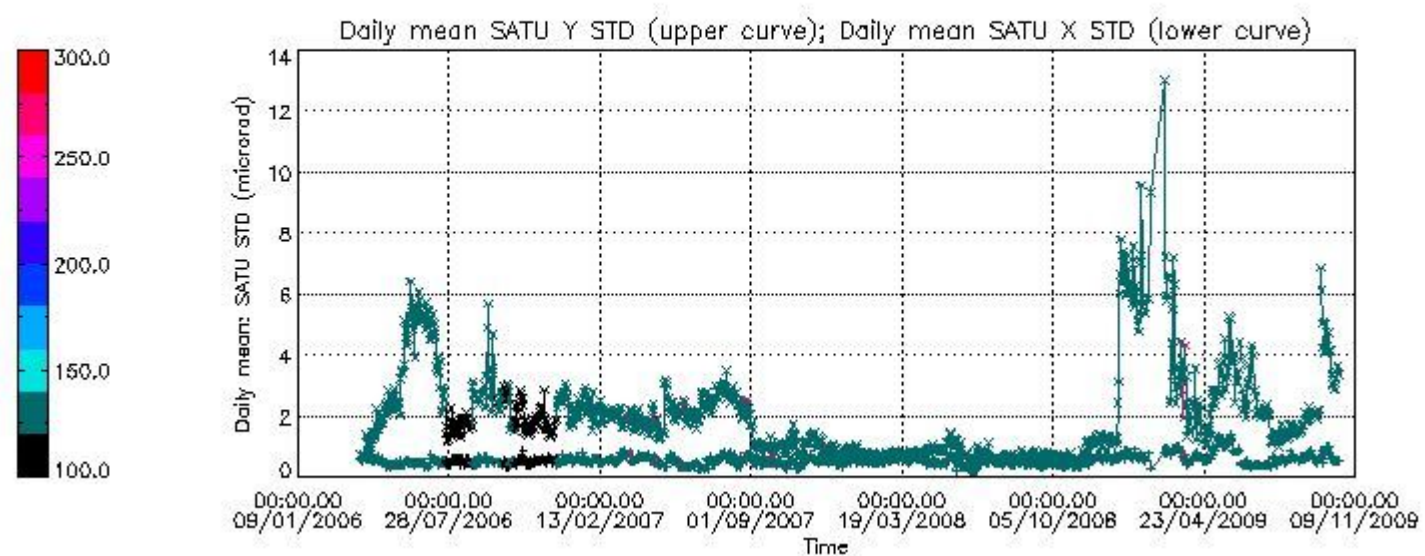
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

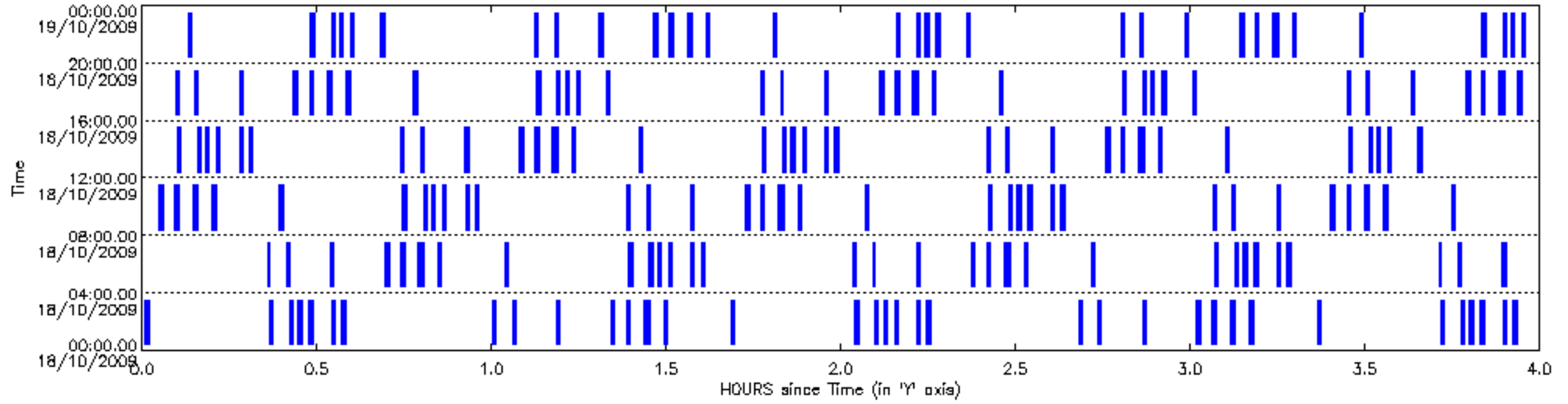
Lower curve: STD of SATU X axis

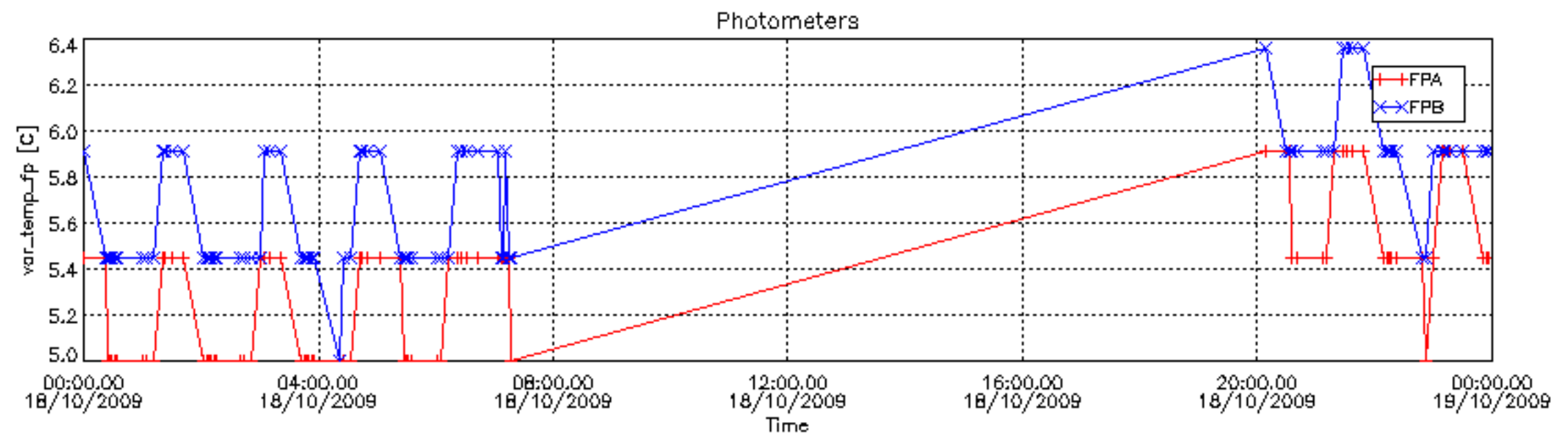
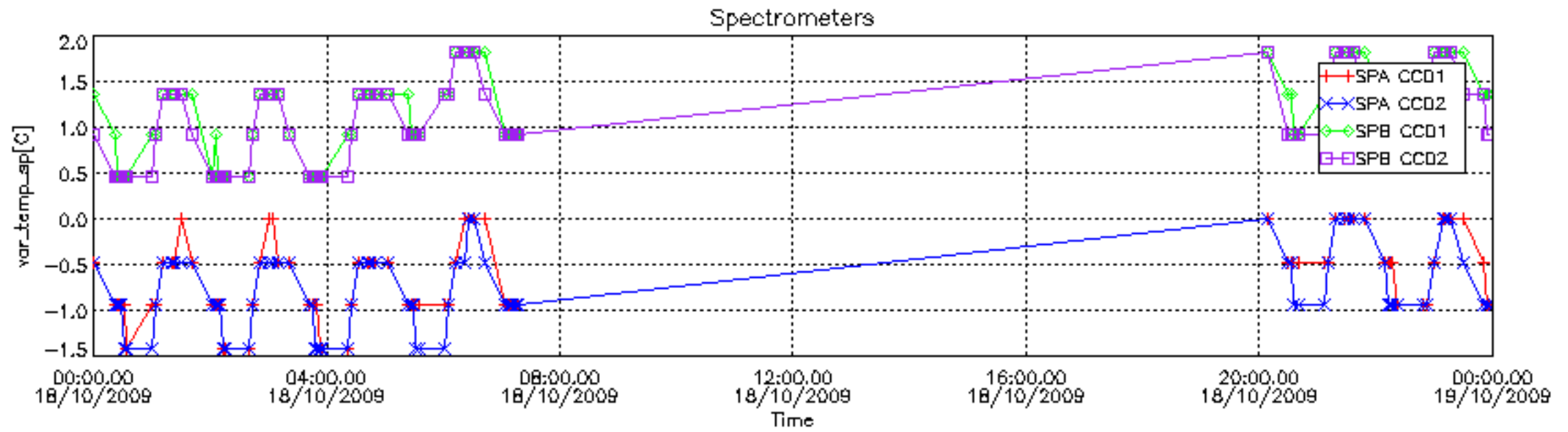


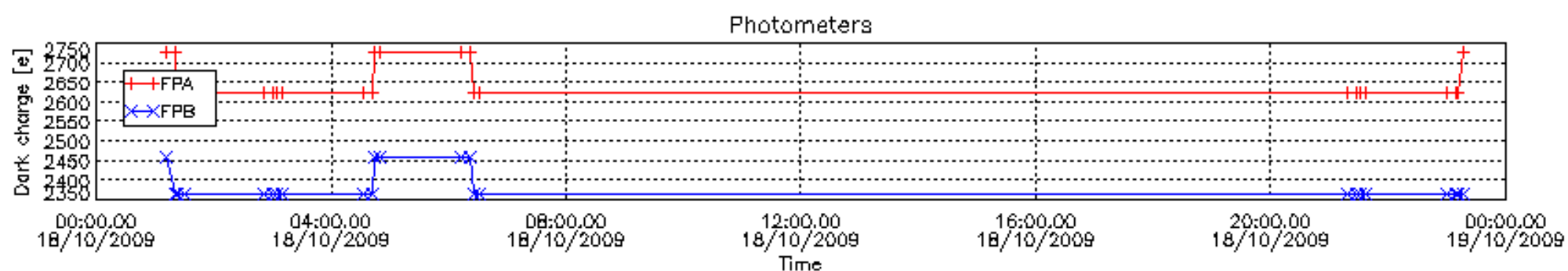
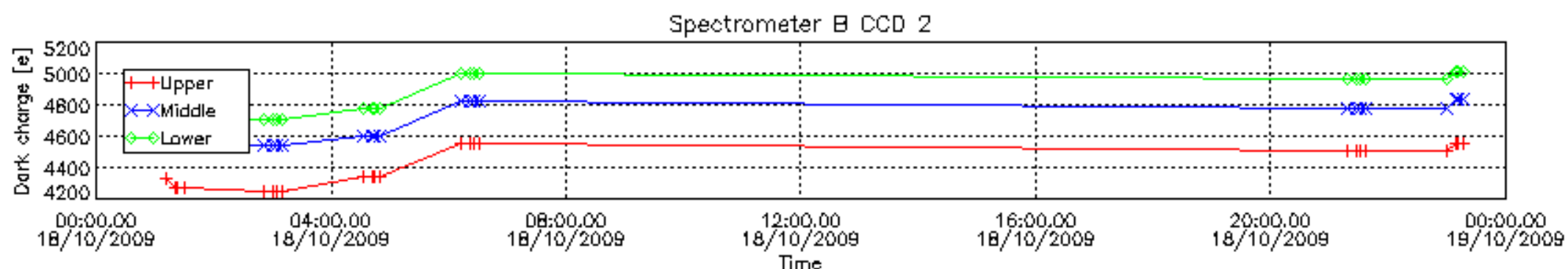
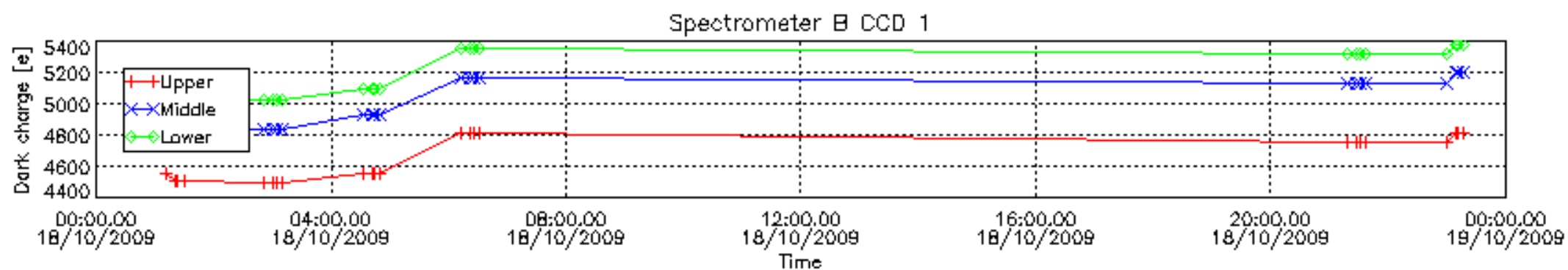
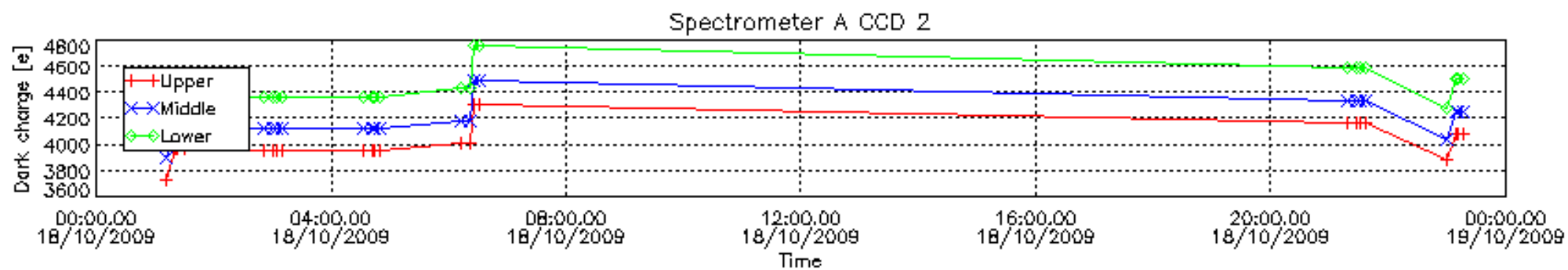
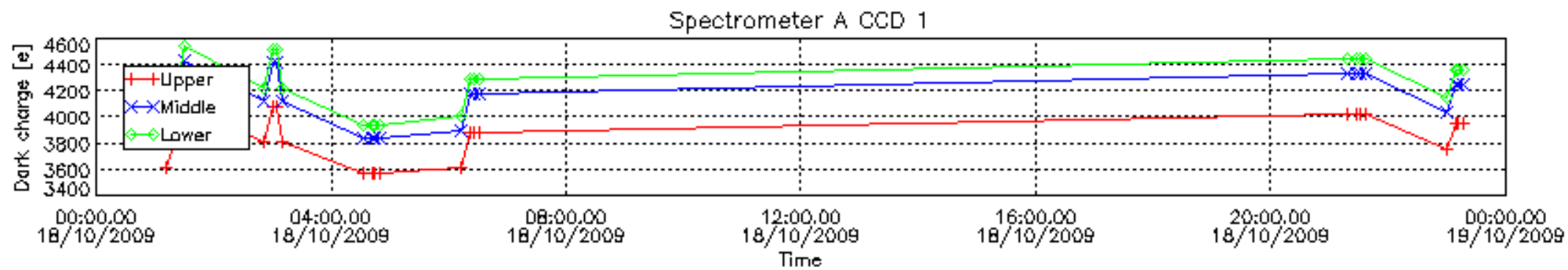
8. Auxiliary Data Files used for the production reported in section 2.4

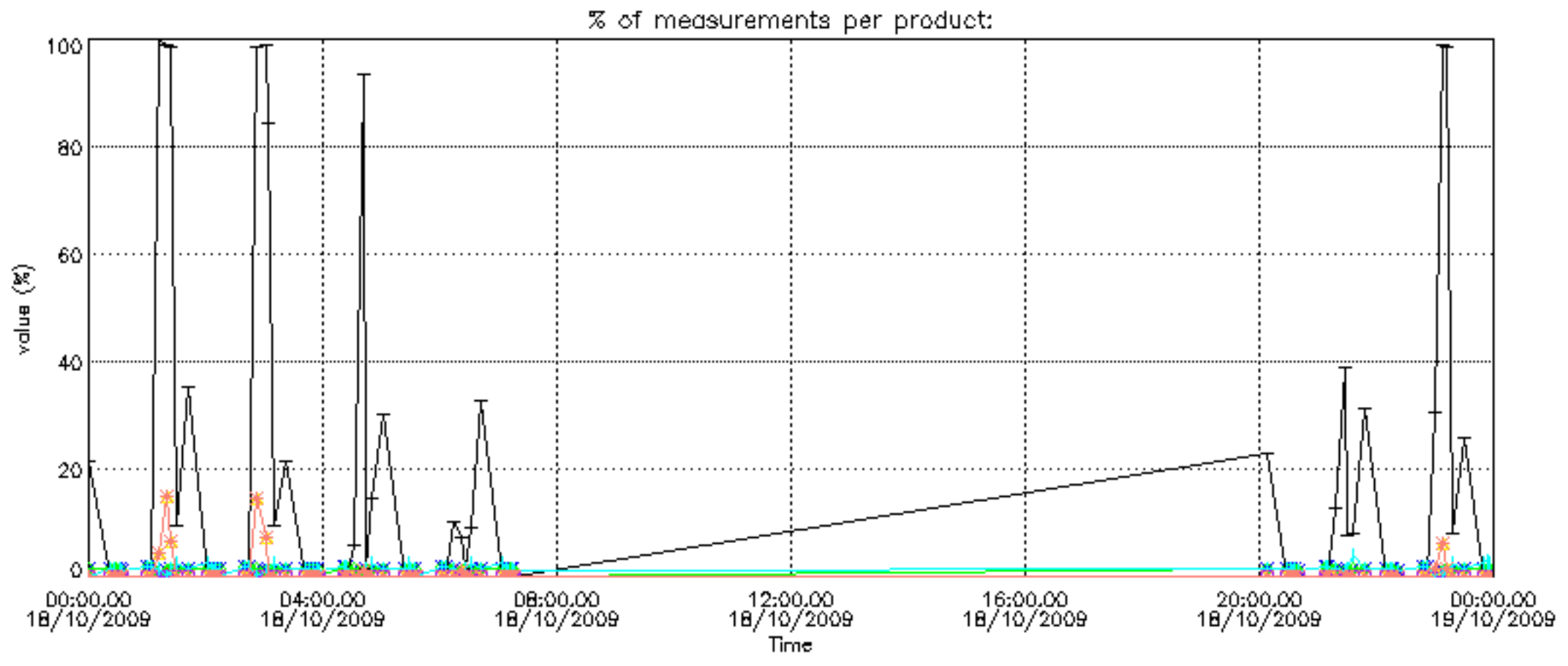
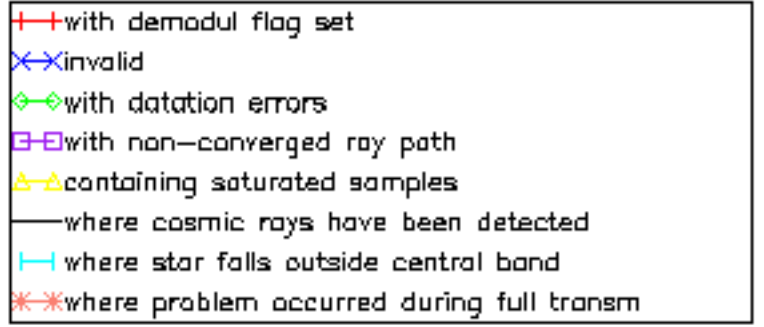
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	18-OCT-2009 00:00:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091013_072825_20091011_000000_20100101_000000	1	18-OCT-2009 00:00:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	18-OCT-2009 00:00:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-OCT-2009 00:00:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	18-OCT-2009 00:00:33
ECMWF_FILE	AUX_ECF_AXNECM20091017_064114_20091017_210000_20091018_090000	1	18-OCT-2009 00:00:33
ECMWF_FILE	AUX_ECF_AXNECM20091017_184115_20091018_030000_20091018_150000	34	18-OCT-2009 04:21:28
ECMWF_FILE	AUX_ECA_AXNECM20091018_062111_20091017_210000_20091018_090000	47	18-OCT-2009 06:02:04
ECMWF_FILE	AUX_ECF_AXNECM20091018_062112_20091018_150000_20091019_030000	60	18-OCT-2009 20:07:50
ECMWF_FILE	AUX_ECF_AXNECM20091018_062113_20091018_210000_20091019_090000	68	18-OCT-2009 21:18:30
OPTIONAL_ECMWF_FILE	MISSING	1	18-OCT-2009 00:00:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091017_232921_000057382083_00273_39906_8987.N1	1	18-OCT-2009 00:00:33
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091018_012110_20091017_184105_20091027_200719	11	18-OCT-2009 01:20:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091018_022442_000054192083_00275_39908_8989.N1	21	18-OCT-2009 02:40:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091018_040020_000057382083_00276_39909_8990.N1	34	18-OCT-2009 04:21:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091018_054117_000060572083_00277_39910_8991.N1	47	18-OCT-2009 06:02:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091018_200201_000041442083_00286_39919_8992.N1	60	18-OCT-2009 20:07:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091018_211624_000057382083_00286_39919_8993.N1	68	18-OCT-2009 21:18:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091018_225721_000057382083_00287_39920_8994.N1	81	18-OCT-2009 23:08:30

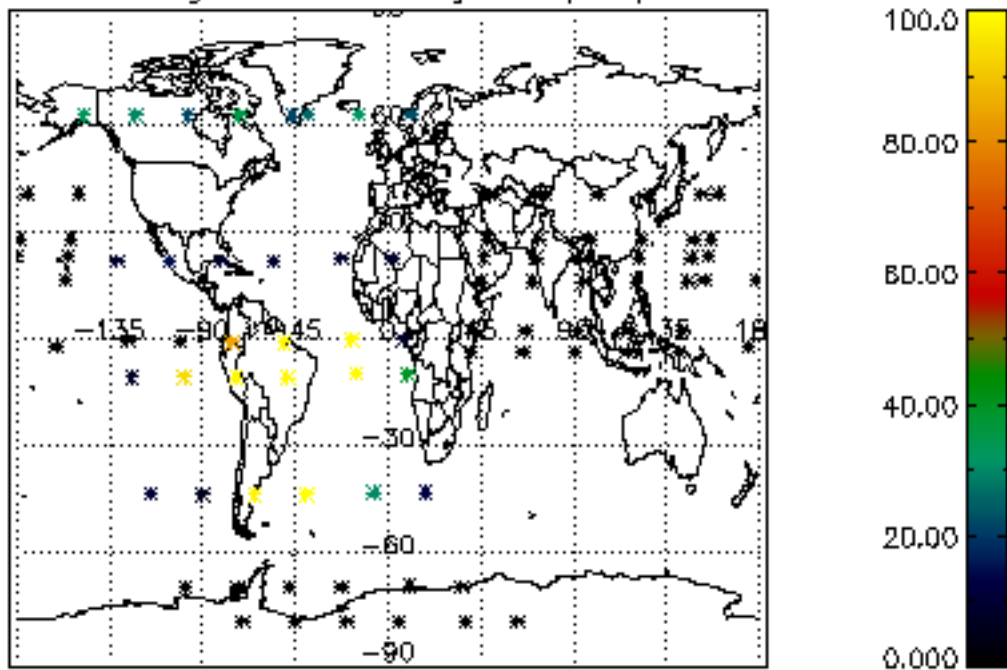




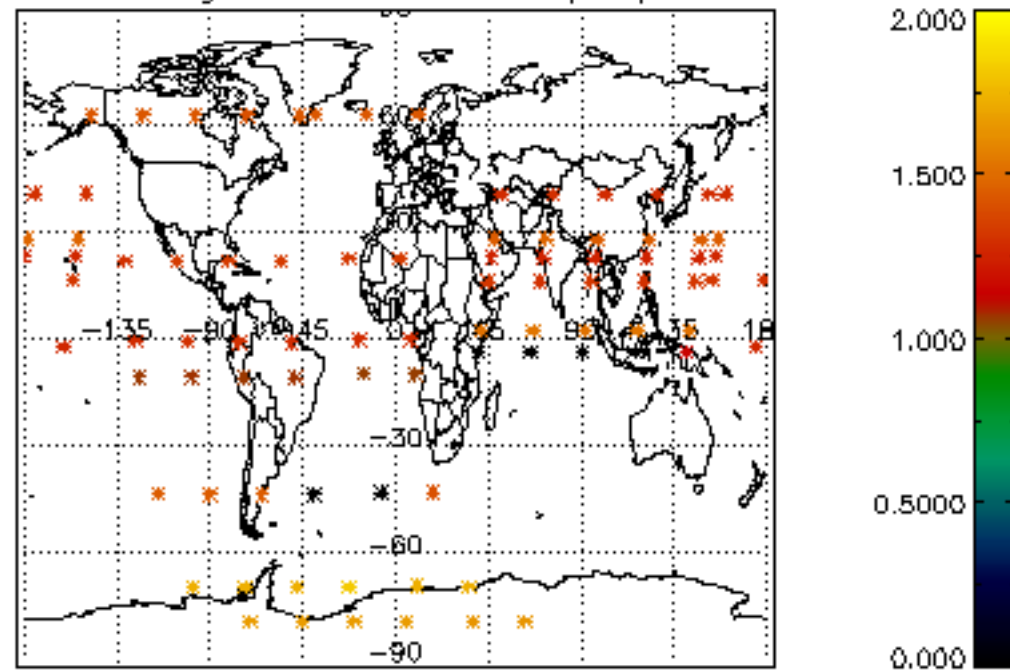




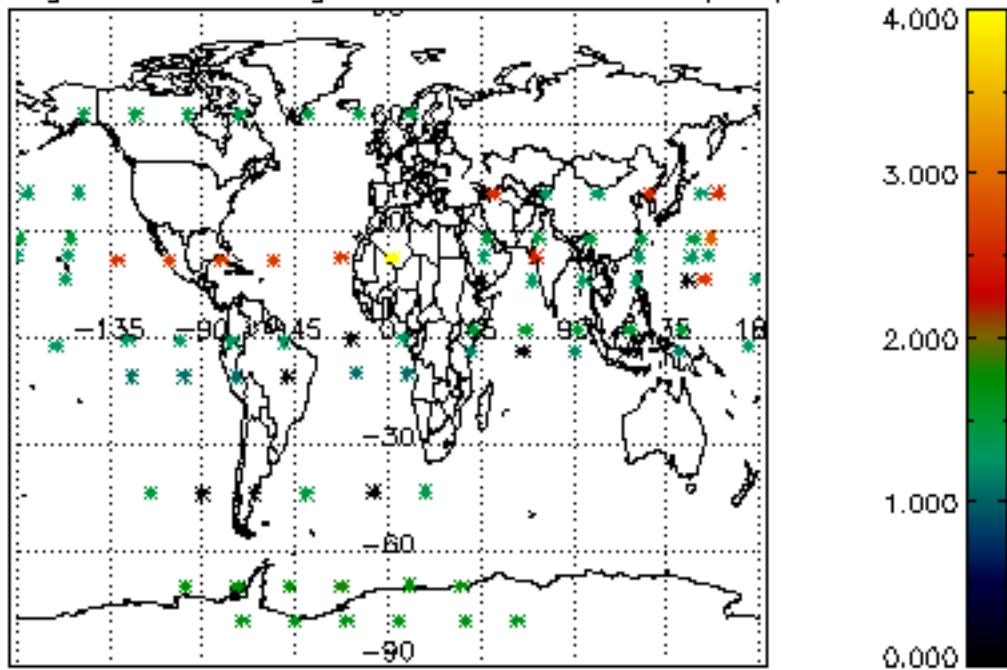
Percentage of cosmic ray hits per profile



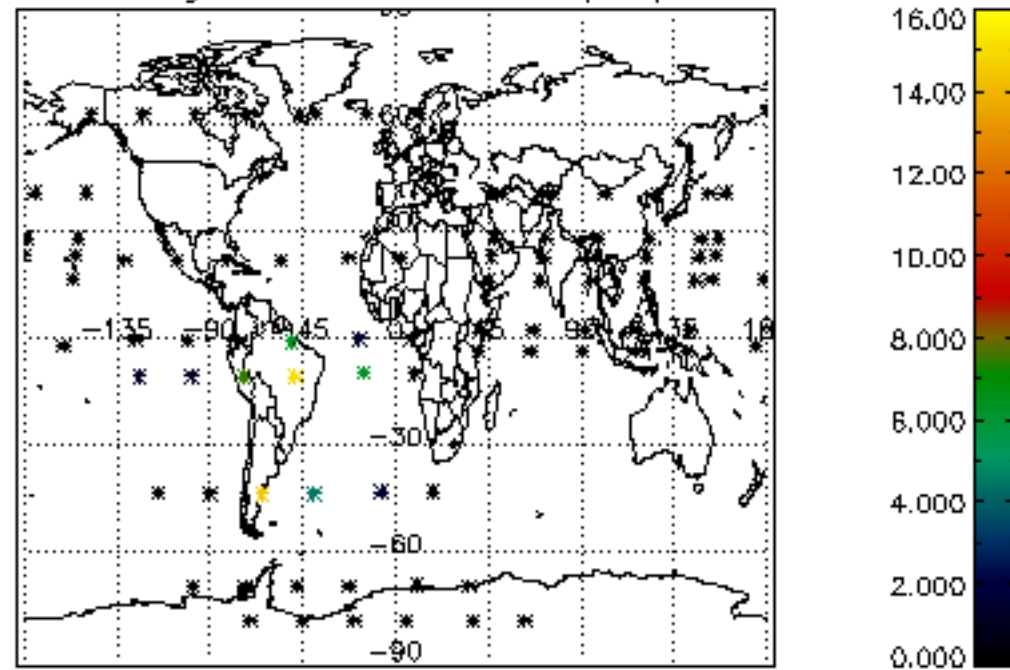
Percentage of datation errors per profile



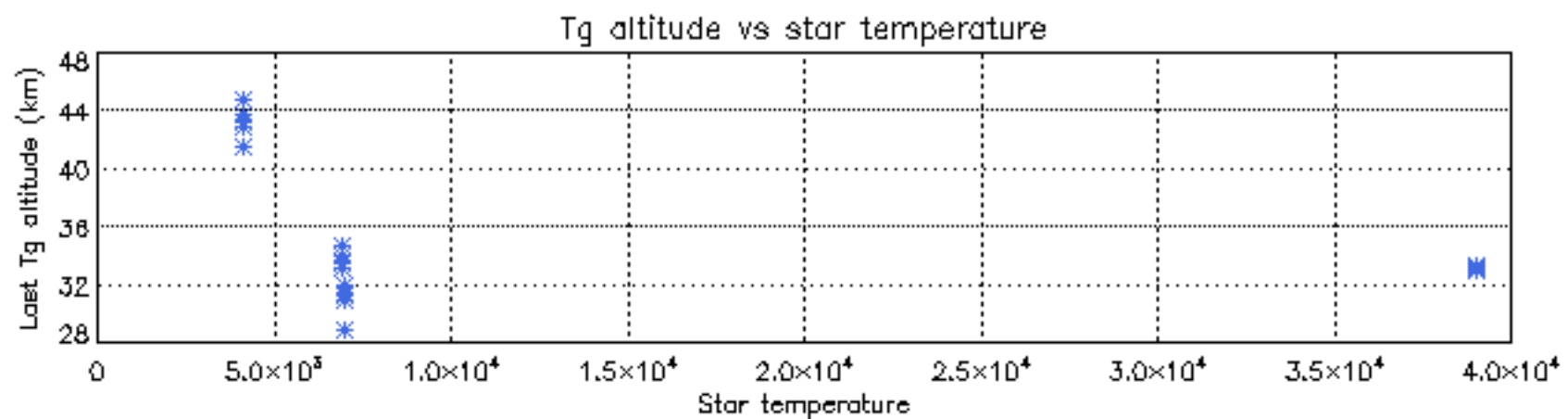
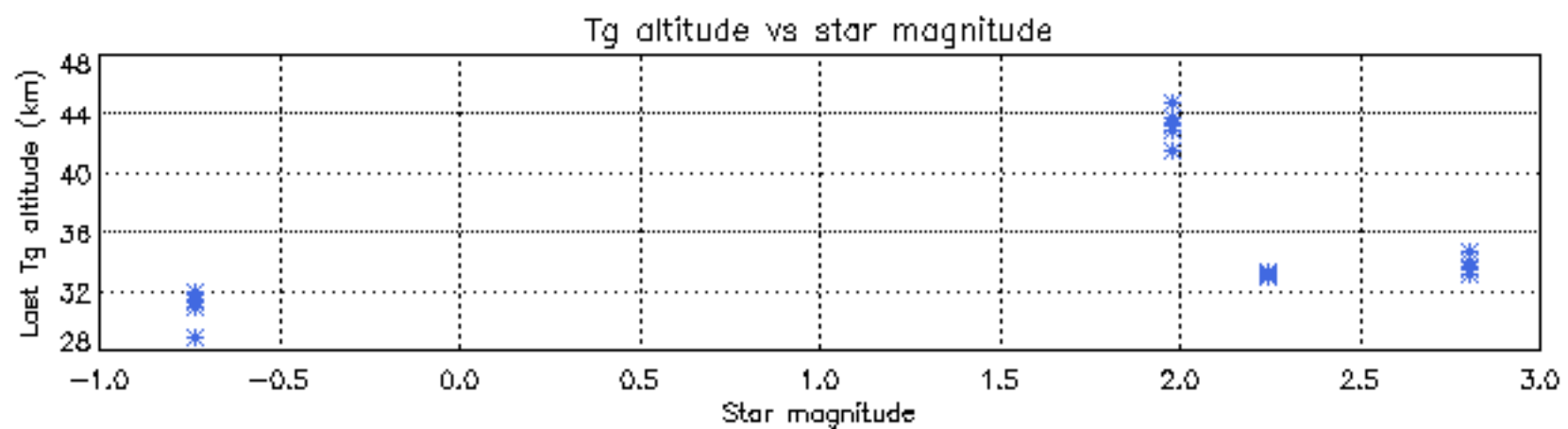
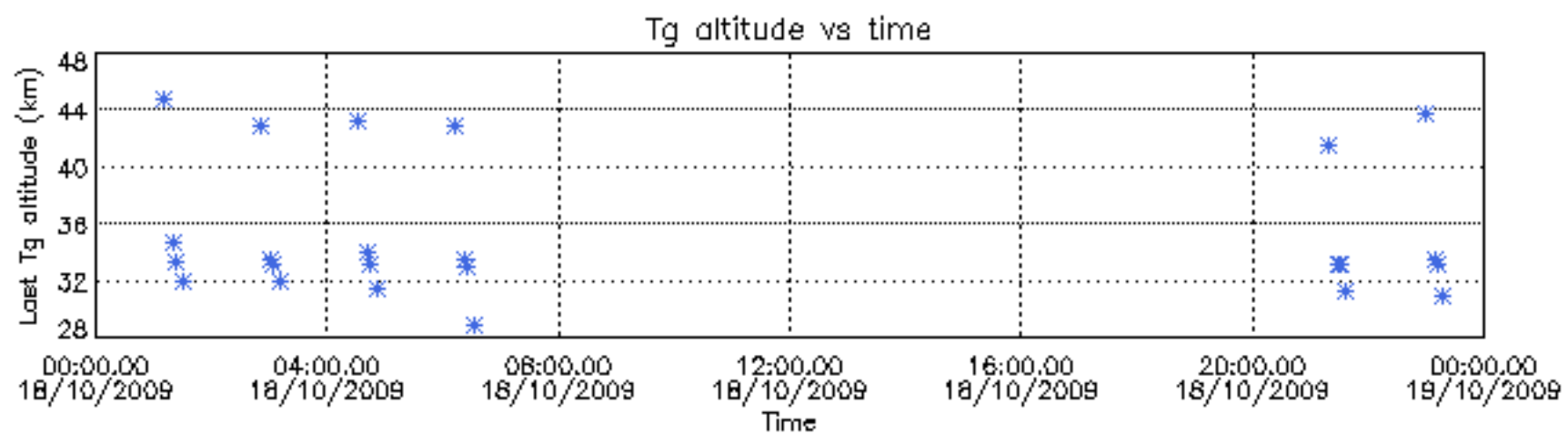
Percentage of star falling outside central band per profile



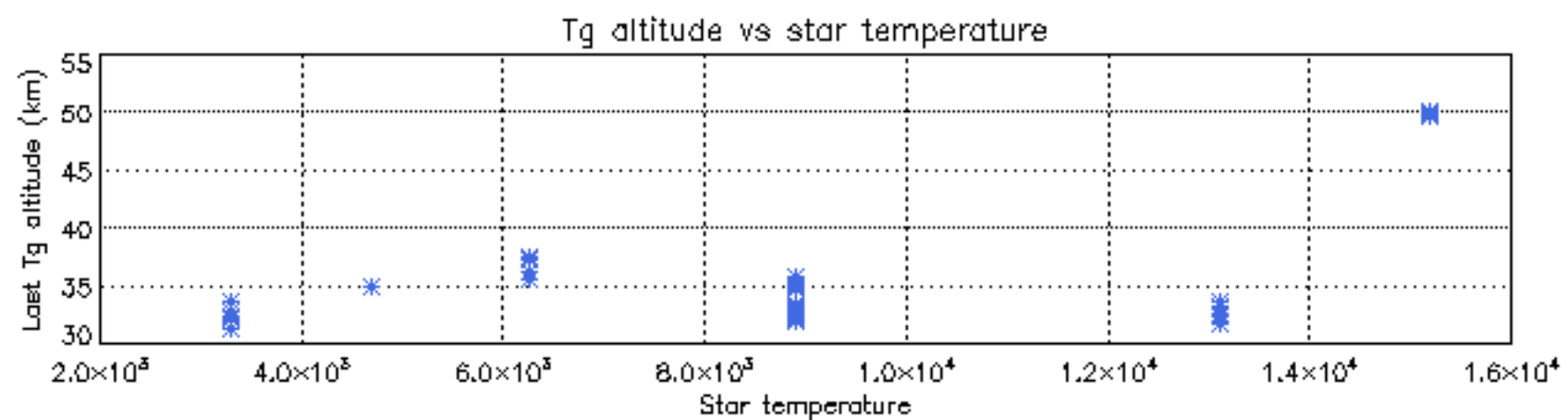
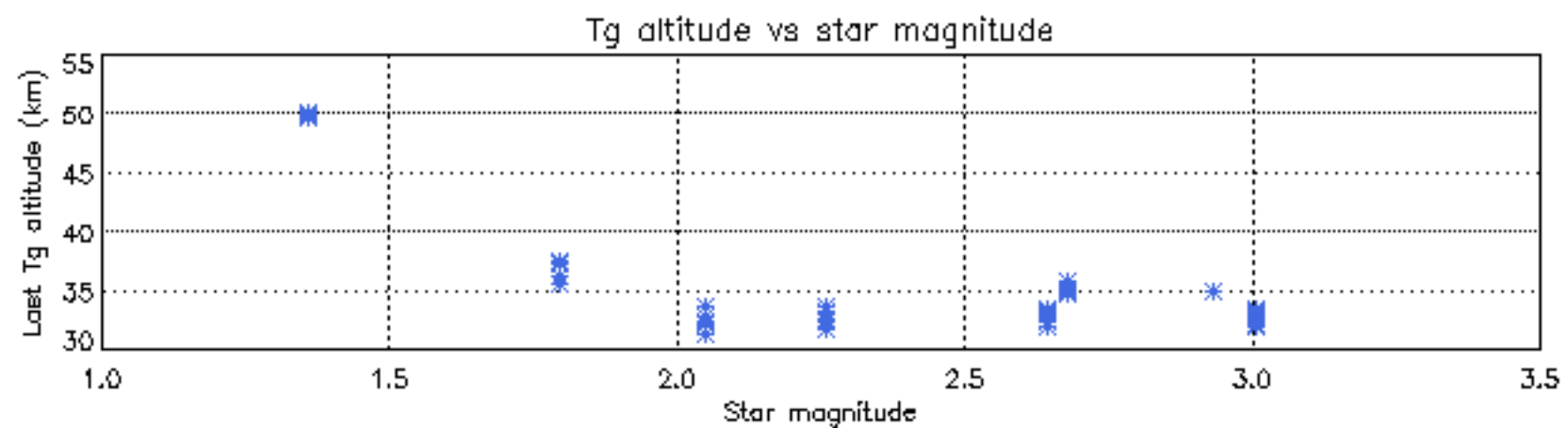
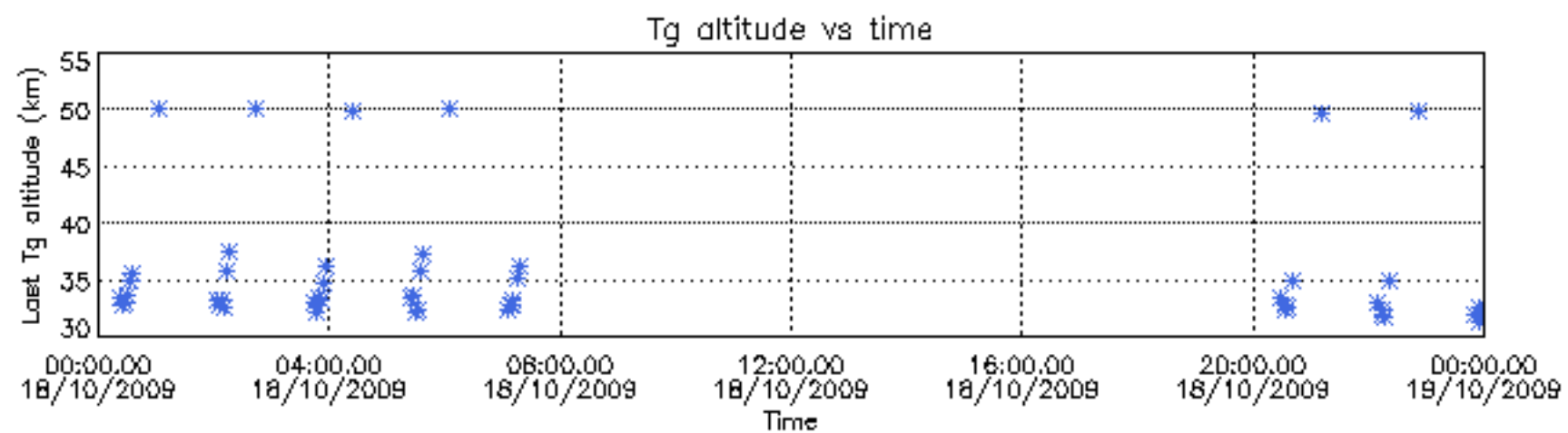
Percentage of saturation errors per profile

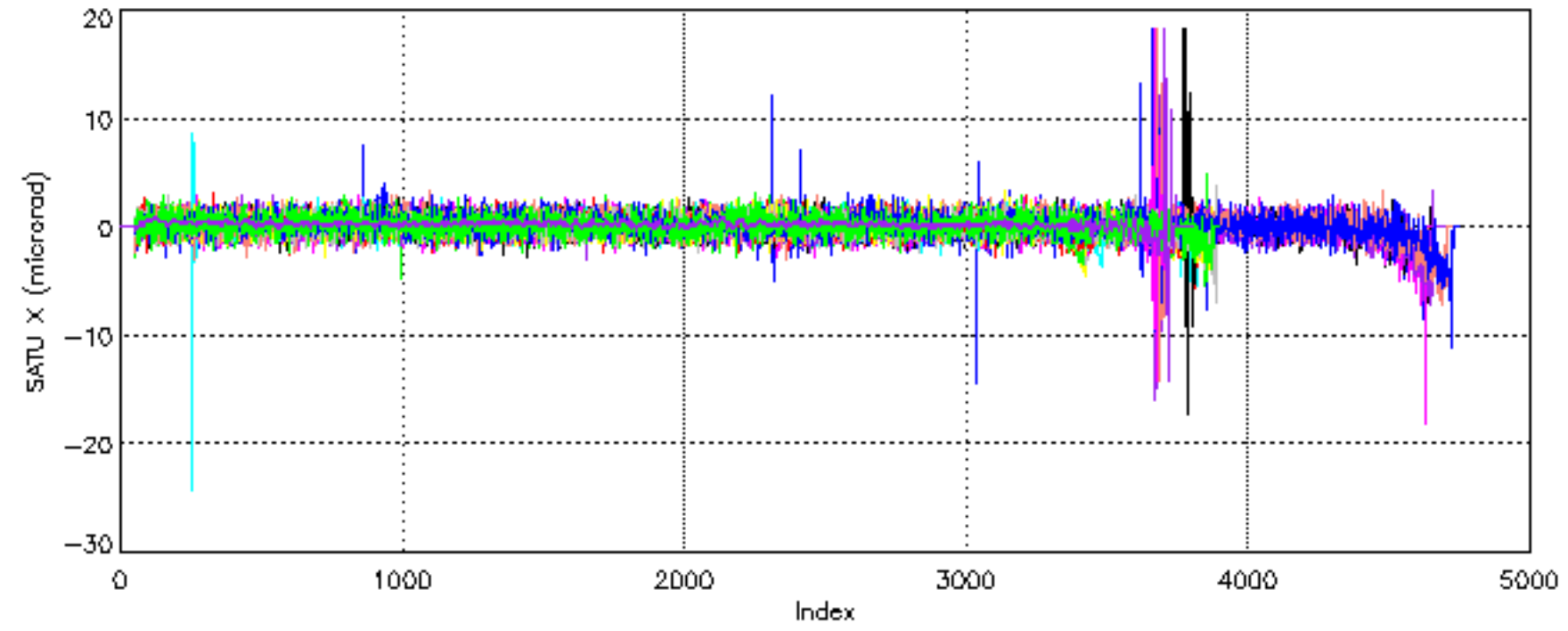


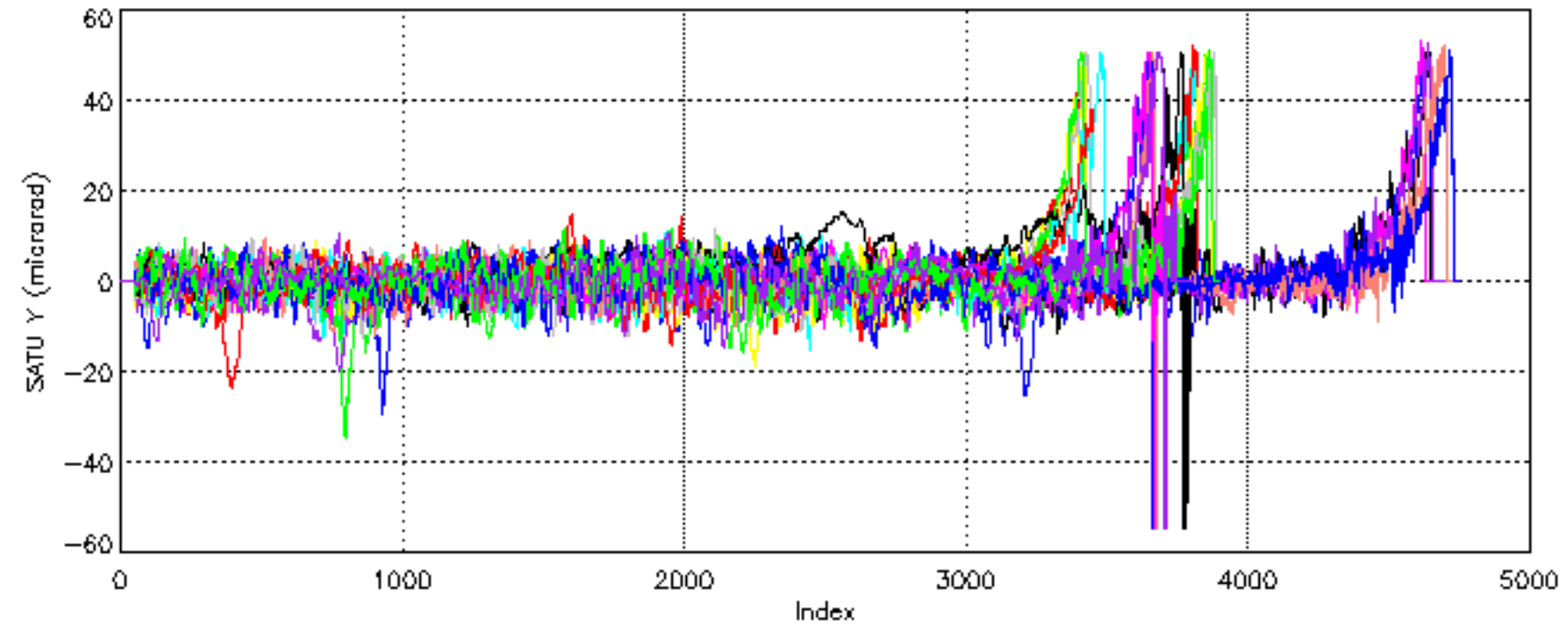
Tangent altitude at which the star is lost

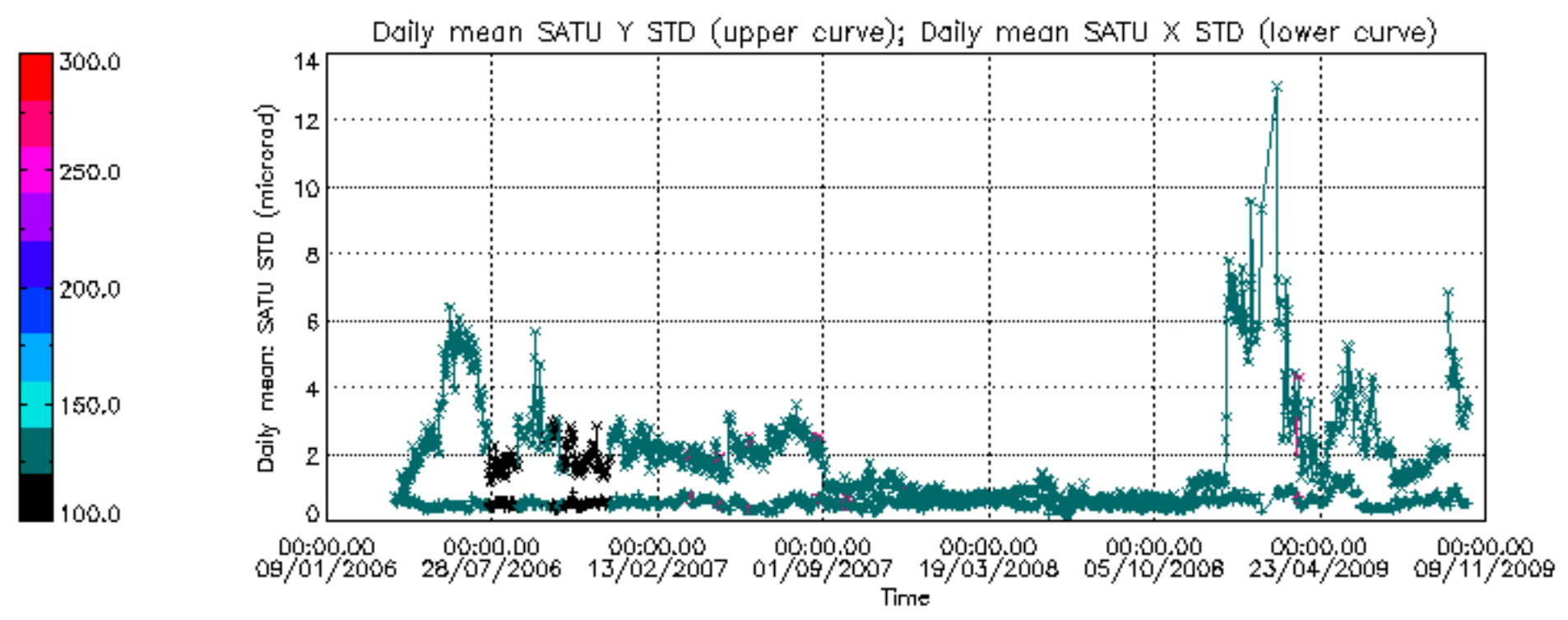


Tangent altitude at which the star is lost









```
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091001_000952_000050872083_00030_39663_8658.N1
1; -449.6; 01-OCT-2009 00:09:52; Dark ; 35.5; 132; 15Rho Pup ; 2.80; 6900;occ; 71; 0;39663
2; -232.4; 01-OCT-2009 00:13:29; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39663
3; -128.1; 01-OCT-2009 00:15:14; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39663
4; 97.3; 01-OCT-2009 00:18:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39664
5; 305.4; 01-OCT-2009 00:22:27; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39664
6; 915.5; 01-OCT-2009 00:32:37; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39664
7; 1557.3; 01-OCT-2009 00:43:19; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;39664
8; 2184.9; 01-OCT-2009 00:53:47; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39664
9; 2434.7; 01-OCT-2009 00:57:57; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39664
10; 2659.8; 01-OCT-2009 01:01:42; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39664
11; 2945.5; 01-OCT-2009 01:06:27; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39664
12; 3031.5; 01-OCT-2009 01:07:53; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39664
13; 4601.5; 01-OCT-2009 01:34:03; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39664
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1; -448.7; 01-OCT-2009 01:50:29; Dark ; 35.5; 132; 15Rho Pup ; 2.80; 6900;occ; 71; 0;39664
2; -231.2; 01-OCT-2009 01:54:07; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39664
3; -126.7; 01-OCT-2009 01:55:51; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39664
4; 98.5; 01-OCT-2009 01:59:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39665
5; 306.9; 01-OCT-2009 02:03:05; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39665
6; 915.7; 01-OCT-2009 02:13:14; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39665
7; 1557.1; 01-OCT-2009 02:23:55; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39665
8; 2184.6; 01-OCT-2009 02:34:22; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39665
9; 2434.7; 01-OCT-2009 02:38:32; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39665
10; 2659.2; 01-OCT-2009 02:42:17; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39665
11; 2945.0; 01-OCT-2009 02:47:03; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39665
12; 3031.4; 01-OCT-2009 02:48:29; Bright; 33.5; 76; 27Gam Cas ; 2.30; 30000;occ; 67; 0;39665
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1; -1434.0; 01-OCT-2009 03:14:40; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39665
2; -447.9; 01-OCT-2009 03:31:06; Dark ; 35.5; 132; 15Rho Pup ; 2.80; 6900;occ; 71; 0;39665
3; -230.0; 01-OCT-2009 03:34:44; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39665
4; -125.6; 01-OCT-2009 03:36:28; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39665
5; 99.7; 01-OCT-2009 03:40:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39666
6; 917.1; 01-OCT-2009 03:53:51; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39666
7; 1557.3; 01-OCT-2009 04:04:31; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39666
8; 2184.5; 01-OCT-2009 04:14:58; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39666
9; 2434.3; 01-OCT-2009 04:19:08; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39666
10; 2658.5; 01-OCT-2009 04:22:52; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39666
11; 2944.9; 01-OCT-2009 04:27:39; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39666
12; 3031.0; 01-OCT-2009 04:29:05; Bright; 33.5; 76; 27Gam Cas ; 2.30; 30000;occ; 67; 0;39666
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1; -1433.6; 01-OCT-2009 04:55:16; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39666
2; -447.2; 01-OCT-2009 05:11:43; Dark ; 36.0; 132; 15Rho Pup ; 2.80; 6900;occ; 72; 0;39666
3; -229.1; 01-OCT-2009 05:15:21; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39666
4; -124.5; 01-OCT-2009 05:17:05; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;39666
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6; 917.8; 01-OCT-2009 05:34:28; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39667
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6; 4603.1; 01-OCT-2009 11:37:41; Bright; 37.5; 17; 78Bet Gem ; 1.16; 4500;occ; 75; 0;39670
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2; 110.7; 25-OCT-2009 06:07:00; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;40011
3; 256.6; 25-OCT-2009 06:09:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40011
4; 448.3; 25-OCT-2009 06:12:38; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;40011
5; 2294.9; 25-OCT-2009 06:43:25; Bright; 43.0; 105; 6Bet Ari ; 2.64; 8900;occ; 86; 0;40011
6; 2575.2; 25-OCT-2009 06:48:05; Bright; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;40011
7; 2694.6; 25-OCT-2009 06:50:04; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40011
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2; 265.1; 25-OCT-2009 21:14:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40020
3; 455.1; 25-OCT-2009 21:18:08; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;40020
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2; 455.6; 25-OCT-2009 22:58:45; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;40021
3; 2570.6; 25-OCT-2009 23:34:00; Bright; 41.5; 173; 4Bet Tri ; 3.00; 8900;occ; 83; 0;40021
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2; 110.8; 25-OCT-2009 07:47:37; Dark ; 6.0; 34; Gam2Vel ; 1.79; 23000;occ; 12; 0;40012
3; 257.6; 25-OCT-2009 07:50:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40012
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2; 2574.2; 25-OCT-2009 08:28:40; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40012
3; 2693.6; 25-OCT-2009 08:30:39; Bright; 12.0; 73; 57Gam1And ; 2.26; 13100;occ; 24; 0;40012
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2; 2573.8; 25-OCT-2009 10:09:15; Bright; 40.5; 173; 4Bet Tri ; 3.00; 8900;occ; 81; 0;40013
3; 2693.0; 25-OCT-2009 10:11:15; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40013
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2; 2573.4; 25-OCT-2009 11:49:51; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40014
3; 2693.0; 25-OCT-2009 11:51:51; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40014
4; 6149.4; 25-OCT-2009 12:49:27; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40014
5; 6296.2; 25-OCT-2009 12:51:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40014
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2; 2573.1; 25-OCT-2009 13:30:26; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40015
3; 2692.5; 25-OCT-2009 13:32:26; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40015
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3; 2692.3; 25-OCT-2009 15:13:02; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40016
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2; 2569.4; 26-OCT-2009 04:35:46; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40024
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2; 2568.9; 26-OCT-2009 06:16:22; Bright; 2.0; 173; 4Bet Tri ; 3.00; 8900;occ; 4; 0;40025
3; 2688.2; 26-OCT-2009 06:18:21; Bright; 3.5; 73; 57Gam1And ; 2.26; 13100;occ; 7; 0;40025
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2; 123.6; 26-OCT-2009 07:16:12; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40026
3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
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2; 2687.5; 26-OCT-2009 11:20:08; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40028
3; 6162.6; 26-OCT-2009 12:18:03; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40028
4; 6309.4; 26-OCT-2009 12:20:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40028
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3; 5407.6; 26-OCT-2009 13:46:04; Dark ; 19.5; 48; 30Alp Hya ; 1.98; 4100;occ; 39; 0;40029
4; 6163.3; 26-OCT-2009 13:58:40; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40029
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3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
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3; 6313.3; 26-OCT-2009 19:02:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40032
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