

GOMOS Daily Report 14-NOV-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	20NOV2009 05:18:45
Data source version	GOMOS/5.00L03
Start time of products	14NOV2009 00:00:26
Stop time of products	14NOV2009 23:41:19
Store outputs in DB	Yes
Nb of level 1b prods	87
Nb of prods with errors	0

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

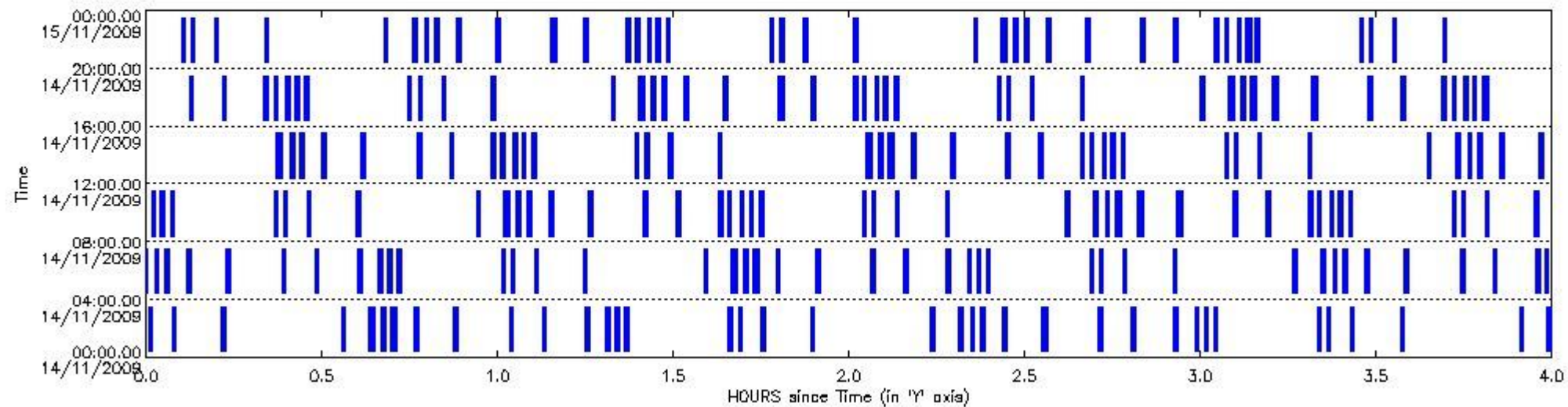
2.1 Level 0 products arrived in PCF (see template [here](#))

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.

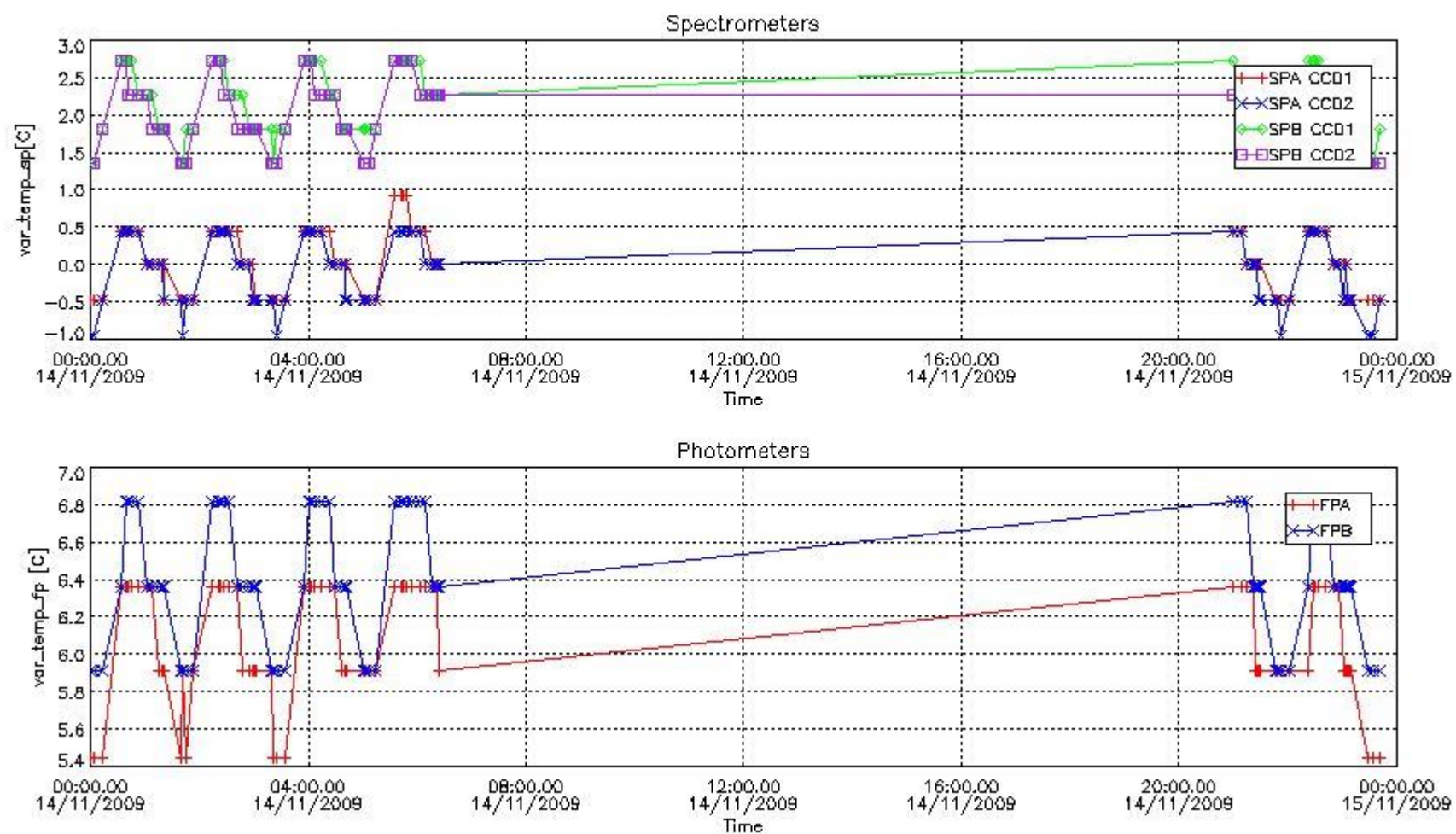
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091114_000026_000000352084_00159_40293_3471.N1	14-NOV-2009 00:00:26	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	40293	No
2	GOM_TRA_1PNPDE20091114_000426_000000352084_00159_40293_3472.N1	14-NOV-2009 00:04:26	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	40293	No
3	GOM_TRA_1PNPDE20091114_001251_000000382084_00159_40293_3473.N1	14-NOV-2009 00:12:51	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	40293	No
4	GOM_TRA_1PNPDE20091114_003318_000000382084_00159_40293_3464.N1	14-NOV-2009 00:33:18	Dark	38.000	113	Mu Vel	2.6920	5000.0	76	40293	No
5	GOM_TRA_1PNPDE20091114_004008_000000432084_00160_40294_3465.N1	14-NOV-2009 00:40:08	Dark	42.500	41	Eps Car	1.8600	4100.0	85	40294	No
6	GOM_TRA_1PNPDE20091114_004145_000000572084_00160_40294_3466.N1	14-NOV-2009 00:41:45	Dark	56.500	70	Zet Pup	2.2460	39000.	113	40294	No
7	GOM_TRA_1PNPDE20091114_004537_000000472084_00160_40294_3467.N1	14-NOV-2009 00:45:37	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	40294	No
8	GOM_TRA_1PNPDE20091114_005220_000000512084_00160_40294_3468.N1	14-NOV-2009 00:52:20	Dark	51.000	108	Alp Col	2.6520	15200.	102	40294	No
9	GOM_TRA_1PNPDE20091114_010155_000000442084_00160_40294_3469.N1	14-NOV-2009 01:01:55	Straylight	44.000	165	34Gam Eri	2.9500	3200.0	88	40294	No
10	GOM_TRA_1PNPDE20091114_010734_000000402084_00160_40294_3470.N1	14-NOV-2009 01:07:34	Twilight_stray	40.000	94	92Alp Cet	2.5260	3100.0	80	40294	No
11	GOM_TRA_1PNPDE20091114_011447_000000482084_00160_40294_3471.N1	14-NOV-2009 01:14:47	Bright	47.500	146	25Eta Tau	2.8730	15200.	95	40294	No
12	GOM_TRA_1PNPDE20091114_011826_000000382084_00160_40294_3472.N1	14-NOV-2009 01:18:26	Bright	38.000	73	57Gam1And	2.2600	13100.	76	40294	No

13	GOM_TRA_1PNPDE20091114_012000_000000452084_00160_40294_3473.N1	14-NOV-2009 01:20:00	Bright	44.500	149	45Eps Per	2.8880	30000.	89	40294	No
14	GOM_TRA_1PNPDE20091114_012141_000000412084_00160_40294_3474.N1	14-NOV-2009 01:21:41	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40294	No
15	GOM_TRA_1PNPDE20091114_013923_000000352084_00160_40294_3475.N1	14-NOV-2009 01:39:23	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	40294	No
16	GOM_TRA_1PNPDE20091114_014101_000000352084_00160_40294_3476.N1	14-NOV-2009 01:41:01	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	40294	No
17	GOM_TRA_1PNPDE20091114_014501_000000362084_00160_40294_3477.N1	14-NOV-2009 01:45:01	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	40294	No
18	GOM_TRA_1PNPDE20091114_015327_000000382084_00160_40294_3478.N1	14-NOV-2009 01:53:27	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	40294	No
19	GOM_TRA_1PNPDE20091114_021354_000000392084_00160_40294_3474.N1	14-NOV-2009 02:13:54	Dark	39.000	113	Mu Vel	2.6920	5000.0	78	40294	No
20	GOM_TRA_1PNPDE20091114_022045_000000412084_00161_40295_3475.N1	14-NOV-2009 02:20:45	Dark	41.000	41	Eps Car	1.8600	4100.0	82	40295	No
21	GOM_TRA_1PNPDE20091114_022222_000000562084_00161_40295_3476.N1	14-NOV-2009 02:22:22	Dark	56.000	70	Zet Pup	2.2460	39000.	112	40295	No
22	GOM_TRA_1PNPDE20091114_022614_000000472084_00161_40295_3477.N1	14-NOV-2009 02:26:14	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	40295	No
23	GOM_TRA_1PNPDE20091114_023257_000000522084_00161_40295_3478.N1	14-NOV-2009 02:32:57	Dark	51.500	108	Alp Col	2.6520	15200.	103	40295	No
24	GOM_TRA_1PNPDE20091114_024231_000000442084_00161_40295_3479.N1	14-NOV-2009 02:42:31	Straylight	44.000	165	34Gam Eri	2.9500	3200.0	88	40295	No
25	GOM_TRA_1PNPDE20091114_024809_000000412084_00161_40295_3480.N1	14-NOV-2009 02:48:09	Tw_i_and_stray	40.500	94	92Alp Cet	2.5260	3100.0	81	40295	No
26	GOM_TRA_1PNPDE20091114_025522_000000462084_00161_40295_3481.N1	14-NOV-2009 02:55:22	Bright	46.000	146	25Eta Tau	2.8730	15200.	92	40295	No
27	GOM_TRA_1PNPDE20091114_025902_000000372084_00161_40295_3482.N1	14-NOV-2009 02:59:02	Bright	37.000	73	57Gam1And	2.2600	13100.	74	40295	No
28	GOM_TRA_1PNPDE20091114_030035_000000452084_00161_40295_3483.N1	14-NOV-2009 03:00:35	Bright	44.500	149	45Eps Per	2.8880	30000.	89	40295	No
29	GOM_TRA_1PNPDE20091114_030217_000000392084_00161_40295_3484.N1	14-NOV-2009 03:02:17	Bright	39.000	35	33Alp Per	1.7950	6250.0	78	40295	No
30	GOM_TRA_1PNPDE20091114_031959_000000352084_00161_40295_3481.N1	14-NOV-2009 03:19:59	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	40295	No
31	GOM_TRA_1PNPDE20091114_032137_000000352084_00161_40295_3482.N1	14-NOV-2009 03:21:37	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	40295	No
32	GOM_TRA_1PNPDE20091114_032537_000000362084_00161_40295_3483.N1	14-NOV-2009 03:25:37	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	40295	No
33	GOM_TRA_1PNPDE20091114_033404_000000382084_00161_40295_3484.N1	14-NOV-2009 03:34:04	Bright	38.000	96	68Del Leo	2.5600	9300.0	76	40295	No
34	GOM_TRA_1PNPDE20091114_035431_000000402084_00161_40295_3485.N1	14-NOV-2009 03:54:31	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	40295	No
35	GOM_TRA_1PNPDE20091114_040122_000000422084_00162_40296_3486.N1	14-NOV-2009 04:01:22	Dark	42.000	41	Eps Car	1.8600	4100.0	84	40296	No
36	GOM_TRA_1PNPDE20091114_040259_000000552084_00162_40296_3487.N1	14-NOV-2009 04:02:59	Dark	55.000	70	Zet Pup	2.2460	39000.	110	40296	No
37	GOM_TRA_1PNPDE20091114_040651_000000442084_00162_40296_3488.N1	14-NOV-2009 04:06:51	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	40296	No
38	GOM_TRA_1PNPDE20091114_041333_000000512084_00162_40296_3489.N1	14-NOV-2009 04:13:33	Dark	50.500	108	Alp Col	2.6520	15200.	101	40296	No
39	GOM_TRA_1PNPDE20091114_042307_000000442084_00162_40296_3490.N1	14-NOV-2009 04:23:07	Straylight	43.500	165	34Gam Eri	2.9500	3200.0	87	40296	No
40	GOM_TRA_1PNPDE20091114_042845_000000402084_00162_40296_3491.N1	14-NOV-2009 04:28:45	Tw_i_and_stray	40.000	94	92Alp Cet	2.5260	3100.0	80	40296	No
41	GOM_TRA_1PNPDE20091114_043557_000000482084_00162_40296_3492.N1	14-NOV-2009 04:35:57	Bright	47.500	146	25Eta Tau	2.8730	15200.	95	40296	No
42	GOM_TRA_1PNPDE20091114_043938_000000382084_00162_40296_3493.N1	14-NOV-2009 04:39:38	Bright	37.500	73	57Gam1And	2.2600	13100.	75	40296	No
43	GOM_TRA_1PNPDE20091114_044110_000000452084_00162_40296_3494.N1	14-NOV-2009 04:41:10	Bright	45.000	149	45Eps Per	2.8880	30000.	90	40296	No
44	GOM_TRA_1PNPDE20091114_044252_000000412084_00162_40296_3495.N1	14-NOV-2009 04:42:52	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40296	No
45	GOM_TRA_1PNPDE20091114_050035_000000352084_00162_40296_3489.N1	14-NOV-2009 05:00:35	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	40296	No
46	GOM_TRA_1PNPDE20091114_050213_000000352084_00162_40296_3490.N1	14-NOV-2009 05:02:13	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	40296	No
47	GOM_TRA_1PNPDE20091114_050613_000000362084_00162_40296_3491.N1	14-NOV-2009 05:06:13	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	40296	No
48	GOM_TRA_1PNPDE20091114_051440_000000382084_00162_40296_3492.N1	14-NOV-2009 05:14:40	Bright	38.000	96	68Del Leo	2.5600	9300.0	76	40296	No
49	GOM_TRA_1PNPDE20091114_053508_000000382084_00162_40296_3493.N1	14-NOV-2009 05:35:08	Dark	38.000	113	Mu Vel	2.6920	5000.0	76	40296	No
50	GOM_TRA_1PNPDE20091114_054158_000000422084_00163_40297_3494.N1	14-NOV-2009 05:41:58	Dark	42.000	41	Eps Car	1.8600	4100.0	84	40297	No
51	GOM_TRA_1PNPDE20091114_054337_000000542084_00163_40297_3495.N1	14-NOV-2009 05:43:37	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40297	No
52	GOM_TRA_1PNPDE20091114_054727_000000472084_00163_40297_3496.N1	14-NOV-2009 05:47:27	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	40297	No
53	GOM_TRA_1PNPDE20091114_055410_000000512084_00163_40297_3497.N1	14-NOV-2009 05:54:10	Dark	51.000	108	Alp Col	2.6520	15200.	102	40297	No
54	GOM_TRA_1PNPDE20091114_060344_000000442084_00163_40297_3498.N1	14-NOV-2009 06:03:44	Straylight	44.000	165	34Gam Eri	2.9500	3200.0	88	40297	No
55	GOM_TRA_1PNPDE20091114_060921_000000412084_00163_40297_3499.N1	14-NOV-2009 06:09:21	Tw_i_and_stray	40.500	94	92Alp Cet	2.5260	3100.0	81	40297	No
56	GOM_TRA_1PNPDE20091114_061633_000000462084_00163_40297_3500.N1	14-NOV-2009 06:16:33	Bright	46.000	146	25Eta Tau	2.8730	15200.	92	40297	No
57	GOM_TRA_1PNPDE20091114_062014_000000412084_00163_40297_3501.N1	14-NOV-2009 06:20:14	Bright	40.500	73	57Gam1And	2.2600	13100.	81	40297	No
58	GOM_TRA_1PNPDE20091114_062146_000000452084_00163_40297_3502.N1	14-NOV-2009 06:21:46	Bright	44.500	149	45Eps Per	2.8880	30000.	89	40297	No
59	GOM_TRA_1PNPDE20091114_062328_000000382084_00163_40297_3503.N1	14-NOV-2009 06:23:28	Bright	38.000	35	33Alp Per	1.7950	6250.0	76	40297	No
60	GOM_TRA_1PNPDE20091114_205939_000000532084_00172_40306_3534.N1	14-NOV-2009 20:59:39	Dark	53.000	108	Alp Col	2.6520	15200.	106	40306	No
61	GOM_TRA_1PNPDE20091114_210907_000000522084_00172_40306_3535.N1	14-NOV-2009 21:09:07	Straylight	51.500	165	34Gam Eri	2.9500	3200.0	103	40306	No
62	GOM_TRA_1PNPDE20091114_211444_000000472084_00172_40306_3536.N1	14-NOV-2009 21:14:44	Tw_i_and_stray	46.500	94	92Alp Cet	2.5260	3100.0	93	40306	No
63	GOM_TRA_1PNPDE20091114_212151_000000462084_00172_40306_3537.N1	14-NOV-2009 21:21:51	Bright	45.500	146	25Eta Tau	2.8730	15200.	91	40306	No
64	GOM_TRA_1PNPDE20091114_212332_000000372084_00172_40306_3538.N1	14-NOV-2009 21:23:32	Bright	36.500	173	4Bet Tri	3.0040	8900.0	73	40306	No
65	GOM_TRA_1PNPDE20091114_212536_000000382084_00172_40306_3539.N1	14-NOV-2009 21:25:36	Bright	38.000	73	57Gam1And	2.2600	13100.	76	40306	No
66	GOM_TRA_1PNPDE20091114_212703_000000422084_00172_40306_3540.N1	14-NOV-2009 21:27:03	Bright	41.500	149	45Eps Per	2.8880	30000.	83	40306	No
67	GOM_TRA_1PNPDE20091114_212848_000000412084_00172_40306_3541.N1	14-NOV-2009 21:28:48	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40306	No
68	GOM_TRA_1PNPDE20091114_214632_000000382084_00172_40306_3542.N1	14-NOV-2009 21:46:32	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	40306	No
69	GOM_TRA_1PNPDE20091114_214810_000000382084_00172_40306_3543.N1	14-NOV-2009 21:48:10	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	40306	No
70	GOM_TRA_1PNPDE20091114_215212_000000382084_00172_40306_3544.N1	14-NOV-2009 21:52:12	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	40306	No
71	GOM_TRA_1PNPDE20091114_220043_000000412084_00172_40306_3545.N1	14-NOV-2009 22:00:43	Bright	40.500	96	68Del Leo	2.5600	9300.0	81	40306	No

72	GOM_TRA_1PNPDE20091114_222113_000000412084_00172_40306_3540.N1	14-NOV-2009 22:21:13	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	40306	No
73	GOM_TRA_1PNPDE20091114_222804_000000432084_00173_40307_3541.N1	14-NOV-2009 22:28:04	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40307	No
74	GOM_TRA_1PNPDE20091114_222948_000000552084_00173_40307_3542.N1	14-NOV-2009 22:29:48	Dark	55.000	70	Zet Pup	2.2460	39000.	110	40307	No
75	GOM_TRA_1PNPDE20091114_223333_000000482084_00173_40307_3543.N1	14-NOV-2009 22:33:33	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40307	No
76	GOM_TRA_1PNPDE20091114_224016_000000542084_00173_40307_3544.N1	14-NOV-2009 22:40:16	Dark	53.500	108	Alp Col	2.6520	15200.	107	40307	No
77	GOM_TRA_1PNPDE20091114_224943_000000522084_00173_40307_3545.N1	14-NOV-2009 22:49:43	Straylight	51.500	165	34Gam Eri	2.9500	3200.0	103	40307	No
78	GOM_TRA_1PNPDE20091114_225520_000000472084_00173_40307_3546.N1	14-NOV-2009 22:55:20	Twilight_stray	46.500	94	92Alp Cet	2.5260	3100.0	93	40307	No
79	GOM_TRA_1PNPDE20091114_230227_000000452084_00173_40307_3547.N1	14-NOV-2009 23:02:27	Bright	45.000	146	25Eta Tau	2.8730	15200.	90	40307	No
80	GOM_TRA_1PNPDE20091114_230408_000000372084_00173_40307_3548.N1	14-NOV-2009 23:04:08	Bright	37.000	173	4Bet Tri	3.0040	8900.0	74	40307	No
81	GOM_TRA_1PNPDE20091114_230612_000000352084_00173_40307_3549.N1	14-NOV-2009 23:06:12	Bright	34.500	73	57Gam1And	2.2600	13100.	69	40307	No
82	GOM_TRA_1PNPDE20091114_230739_000000652084_00173_40307_3550.N1	14-NOV-2009 23:07:39	Bright	65.000	149	45Eps Per	2.8880	30000.	130	40307	No
83	GOM_TRA_1PNPDE20091114_230924_000000402084_00173_40307_3551.N1	14-NOV-2009 23:09:24	Bright	40.000	35	33Alp Per	1.7950	6250.0	80	40307	No
84	GOM_TRA_1PNPDE20091114_232707_000000362084_00173_40307_3552.N1	14-NOV-2009 23:27:07	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	40307	No
85	GOM_TRA_1PNPDE20091114_232846_000000402084_00173_40307_3553.N1	14-NOV-2009 23:28:46	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	40307	No
86	GOM_TRA_1PNPDE20091114_233248_000000402084_00173_40307_3554.N1	14-NOV-2009 23:32:48	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	40307	No
87	GOM_TRA_1PNPDE20091114_234119_000000442084_00173_40307_3555.N1	14-NOV-2009 23:41:19	Bright	43.500	96	68Del Leo	2.5600	9300.0	87	40307	No

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



4. Overview of dark signal processing per product

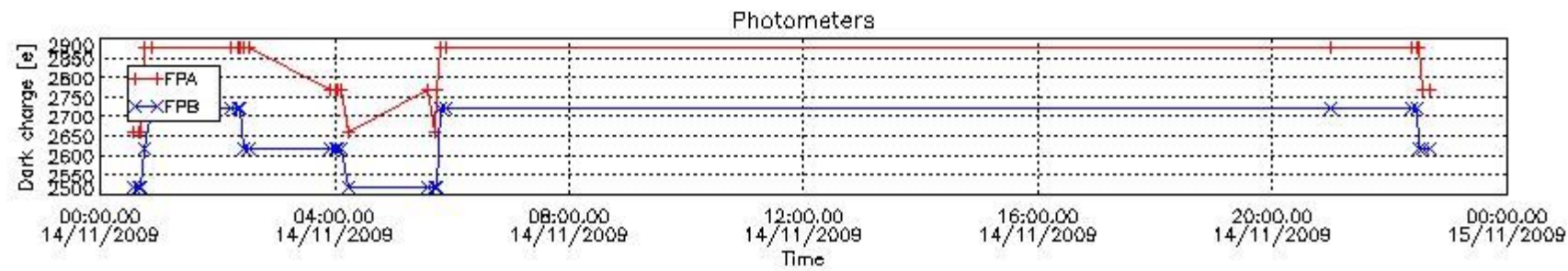
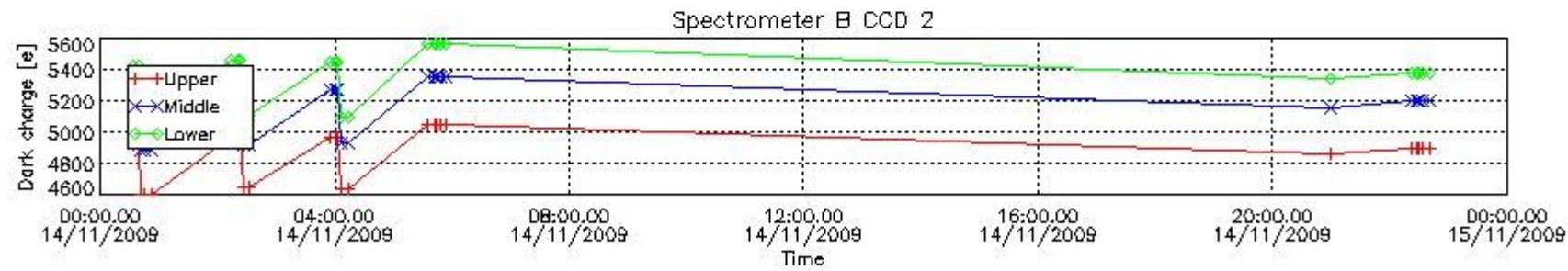
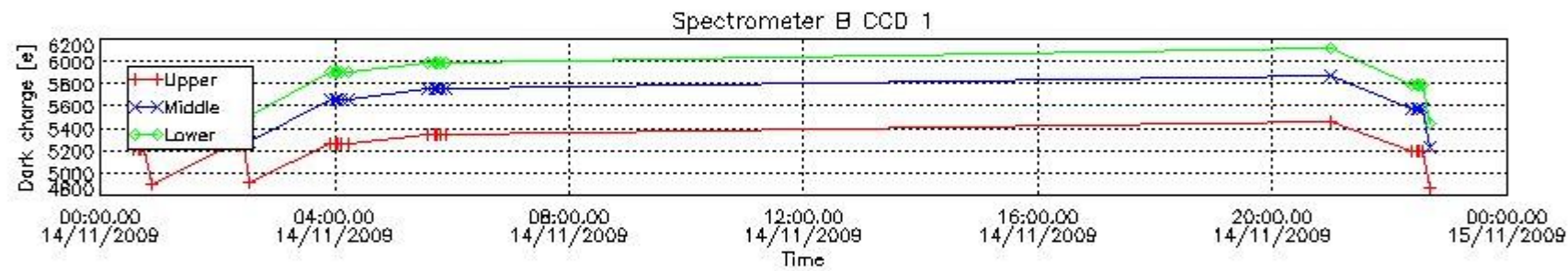
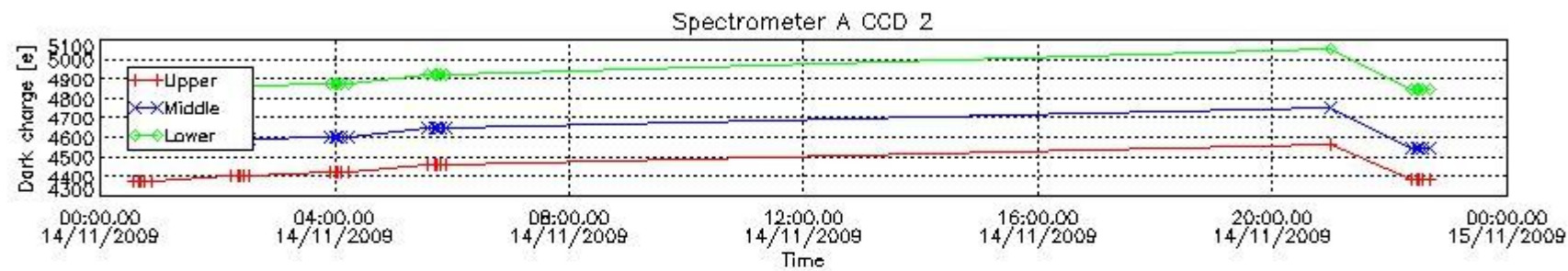
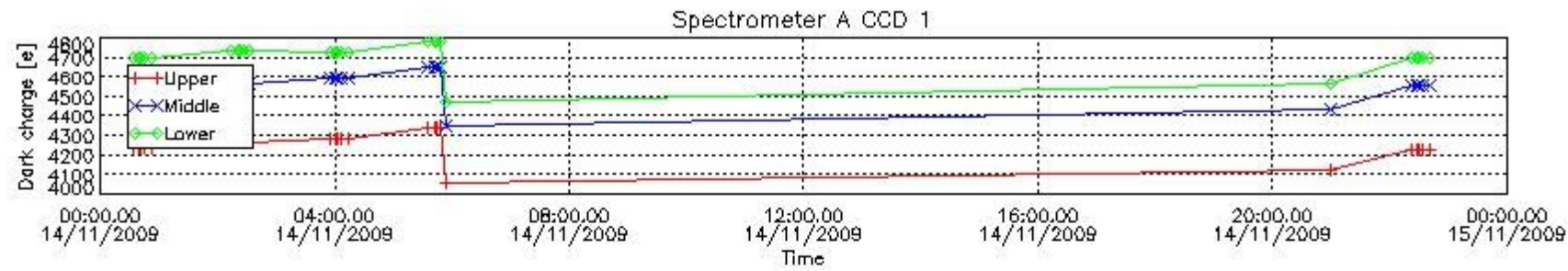
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091114_205939_000000532084_00172_40306_3534.N1	DC map used
GOM_TRA_1PNPDE20091114_210907_000000522084_00172_40306_3535.N1	DC map used
GOM_TRA_1PNPDE20091114_211444_000000472084_00172_40306_3536.N1	DC map used
GOM_TRA_1PNPDE20091114_212151_000000462084_00172_40306_3537.N1	DC map used
GOM_TRA_1PNPDE20091114_212332_000000372084_00172_40306_3538.N1	DC map used
GOM_TRA_1PNPDE20091114_212536_000000382084_00172_40306_3539.N1	DC map used
GOM_TRA_1PNPDE20091114_212703_000000422084_00172_40306_3540.N1	DC map used
GOM_TRA_1PNPDE20091114_212848_000000412084_00172_40306_3541.N1	DC map used
GOM_TRA_1PNPDE20091114_214632_000000382084_00172_40306_3542.N1	DC map used
GOM_TRA_1PNPDE20091114_214810_000000382084_00172_40306_3543.N1	DC map used
GOM_TRA_1PNPDE20091114_215212_000000382084_00172_40306_3544.N1	DC map used
GOM_TRA_1PNPDE20091114_220043_000000412084_00172_40306_3545.N1	DC map used

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



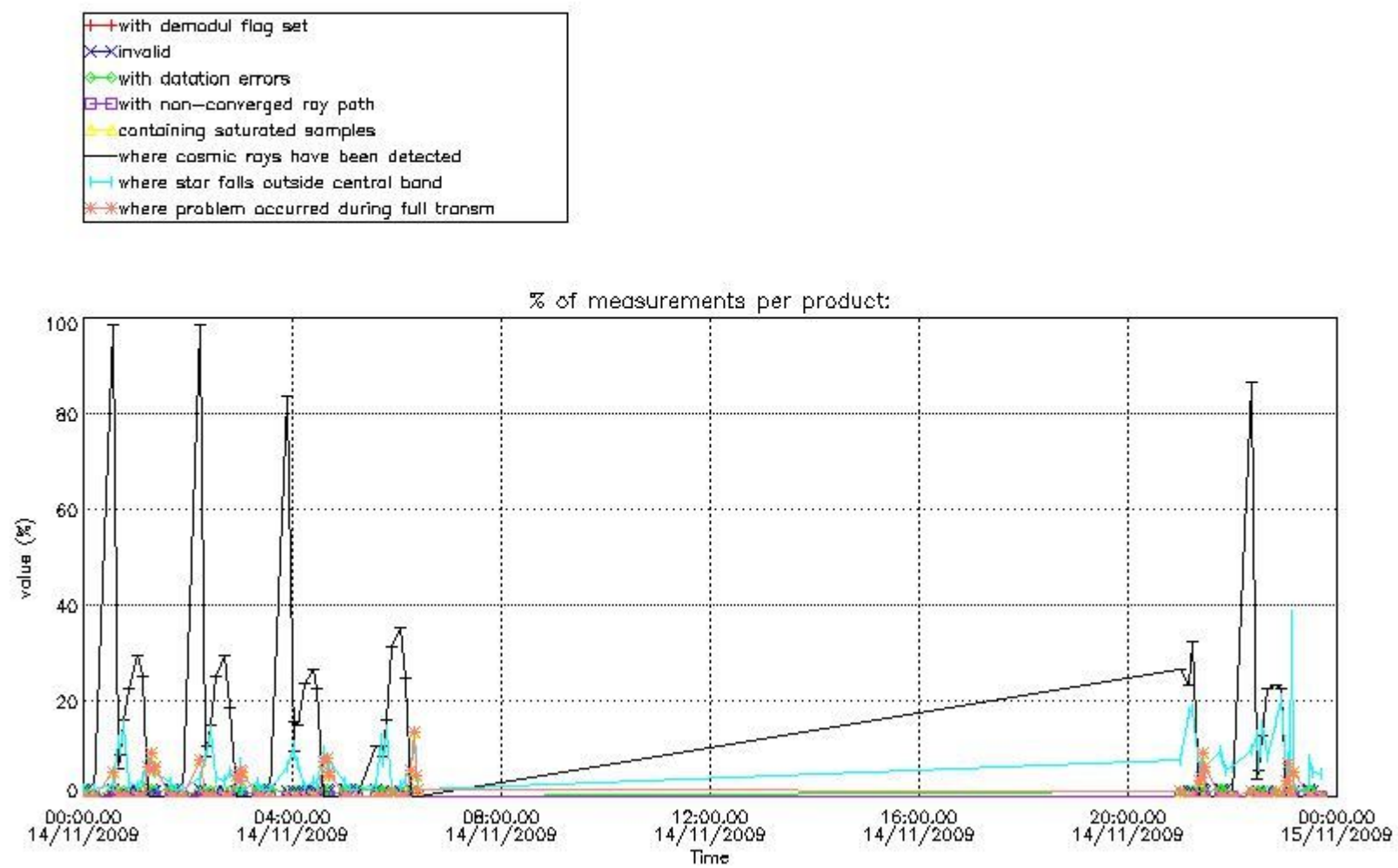
5. Demodulation flag and quality information monitoring

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.

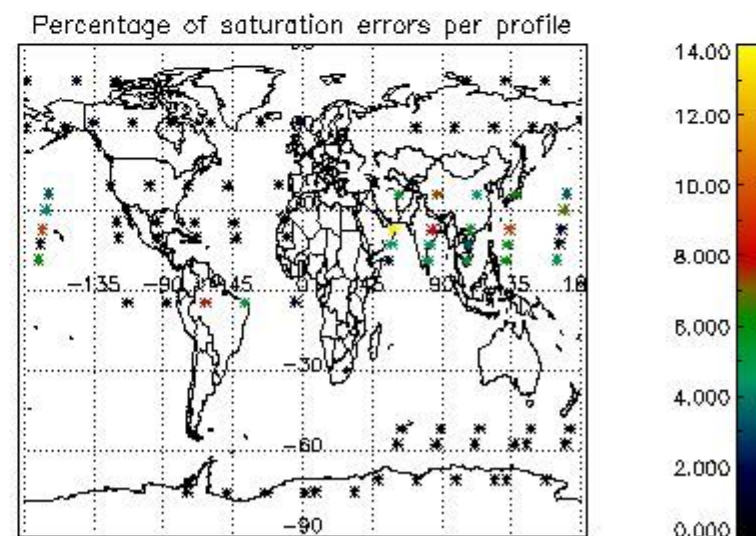
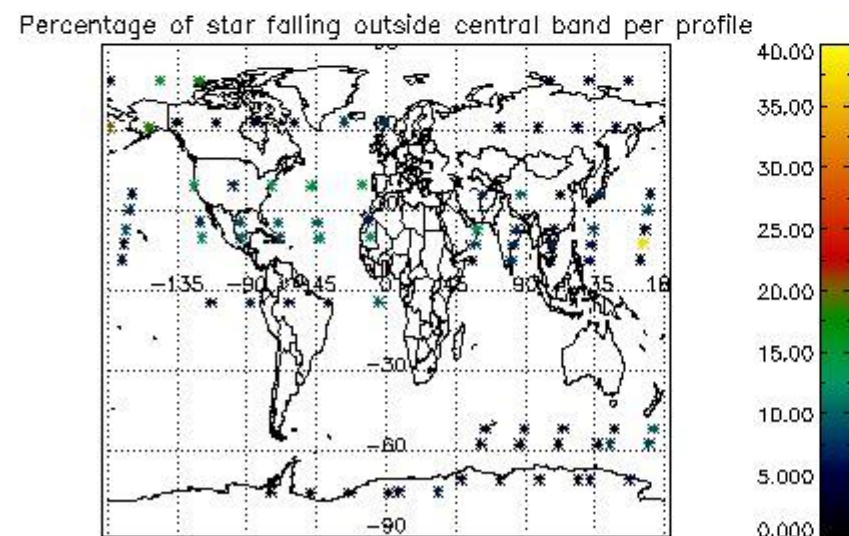
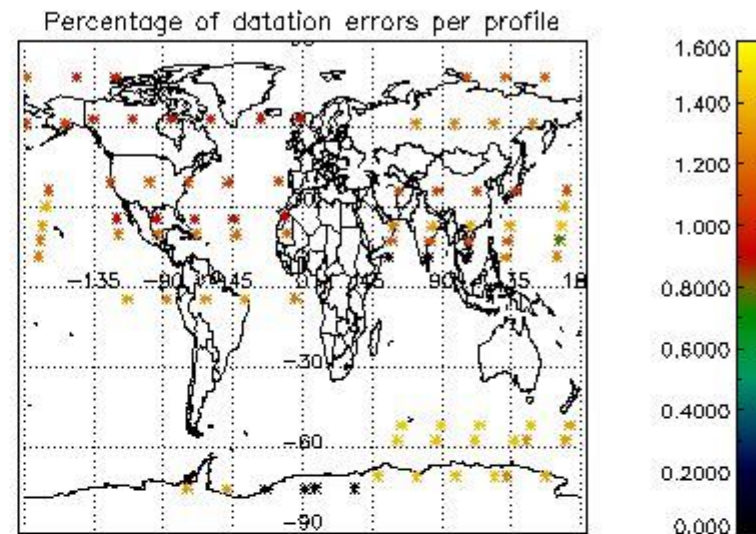
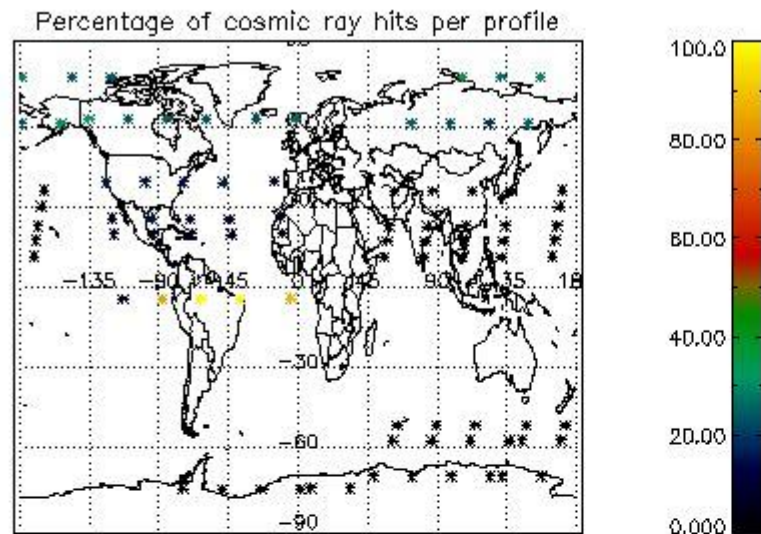
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.9310 %
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)



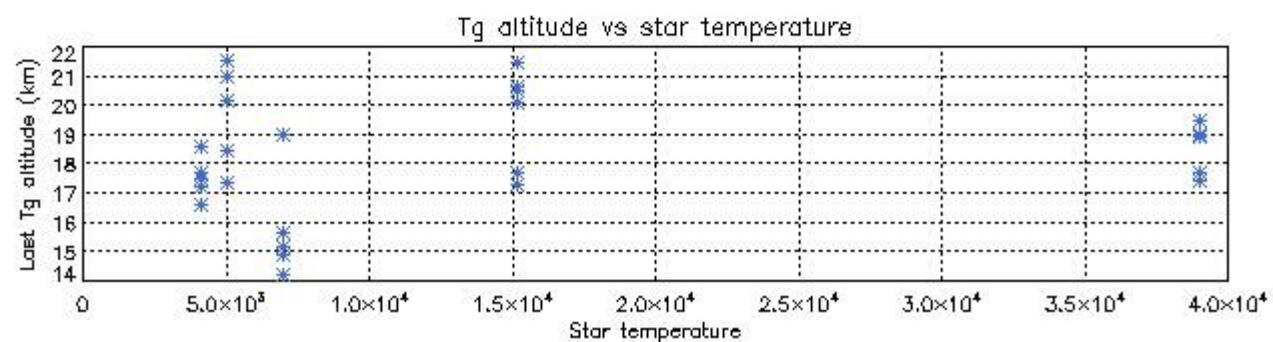
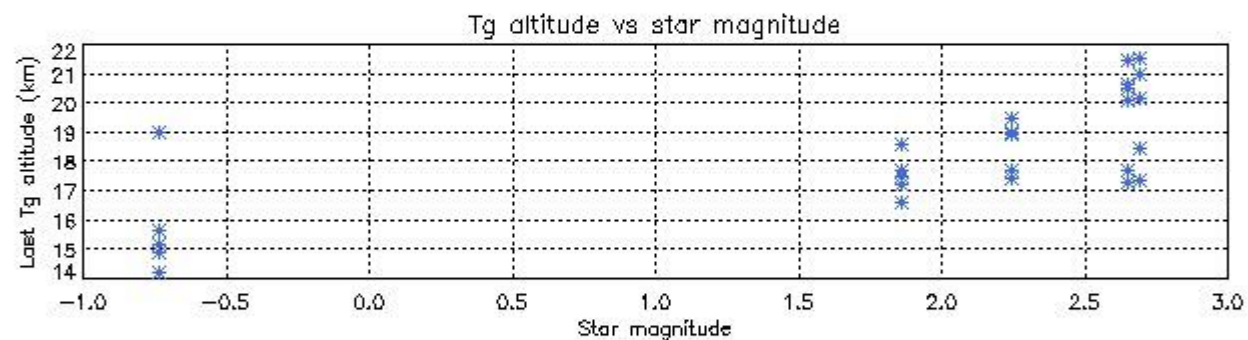
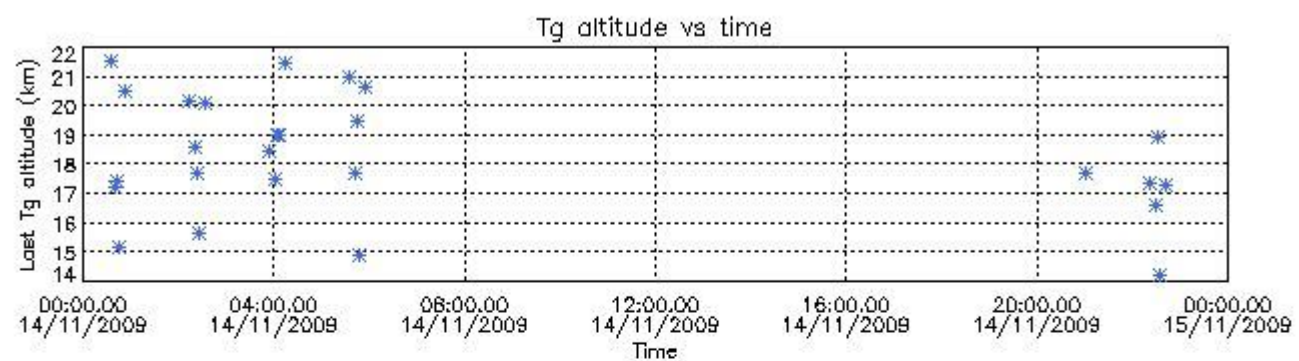
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.270	26.358	NaN
St. deviation:	2.0124	8.0221	NaN
Maximum:	21.498	38.414	NaN
Minimum:	14.180	3.3894	NaN
Number of data:	26.000	49.000	NaN

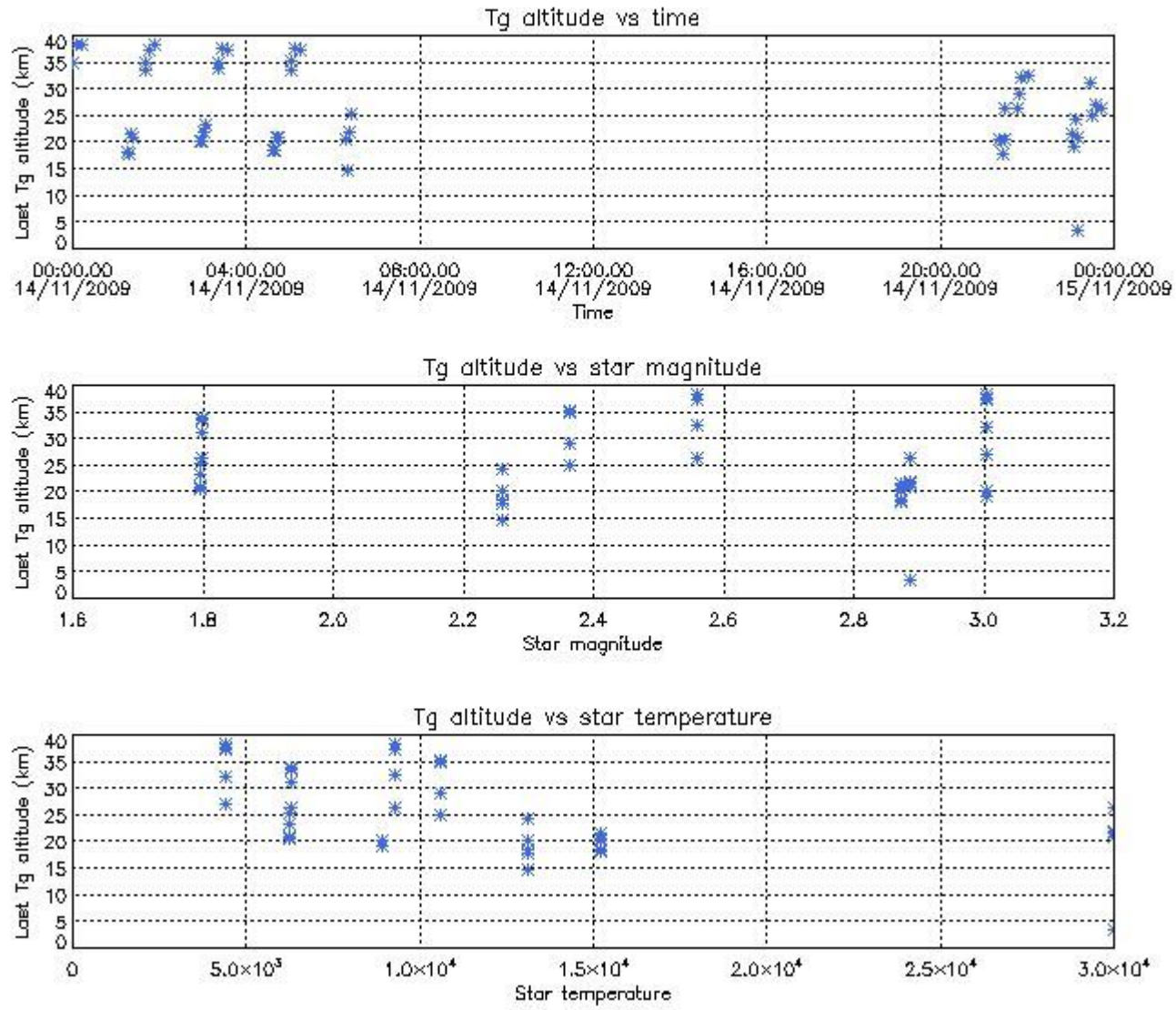
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

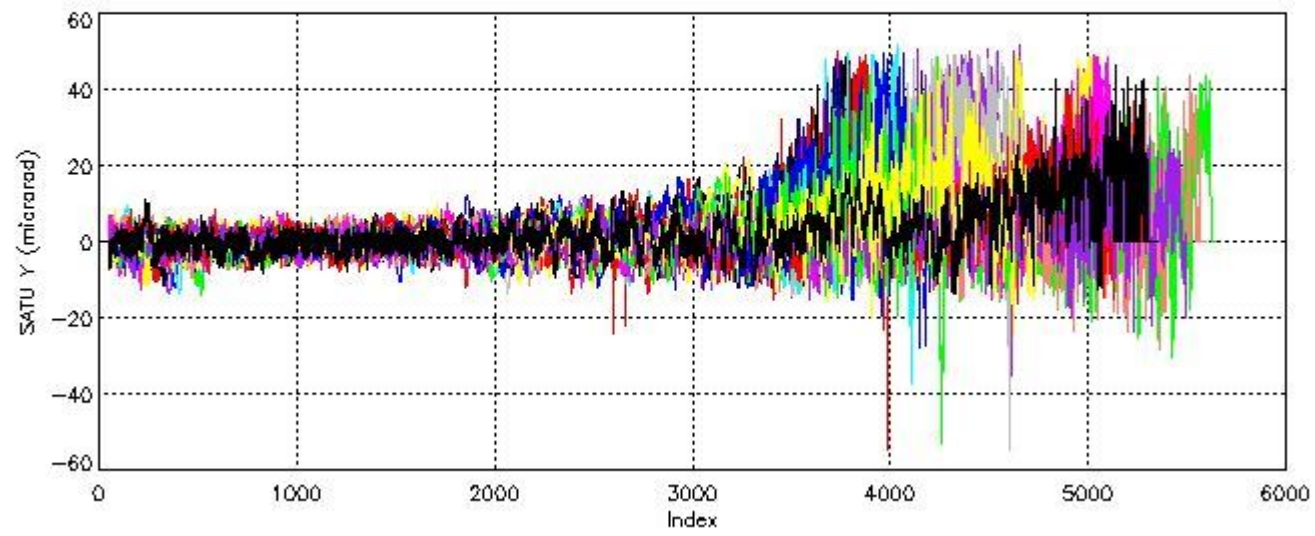
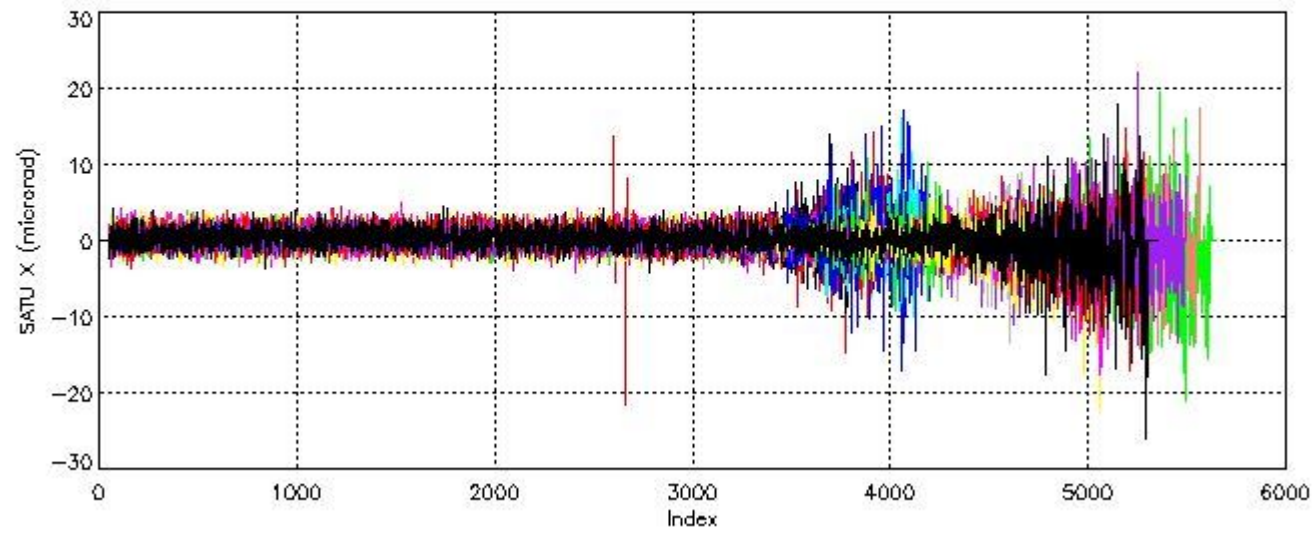


7. Star Acquisition and Tracking Unit (SATU)

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:	0.23836	-0.62845	0.18103	-0.36442
St. deviation:	0.61873	2.6029	0.98936	2.6441
Maximum:	4.2000	10.800	7.3000	11.300
Minimum:	-3.7000	-14.300	-6.9000	-13.900

Number of data:	28100.	28100.	48350.	48350.
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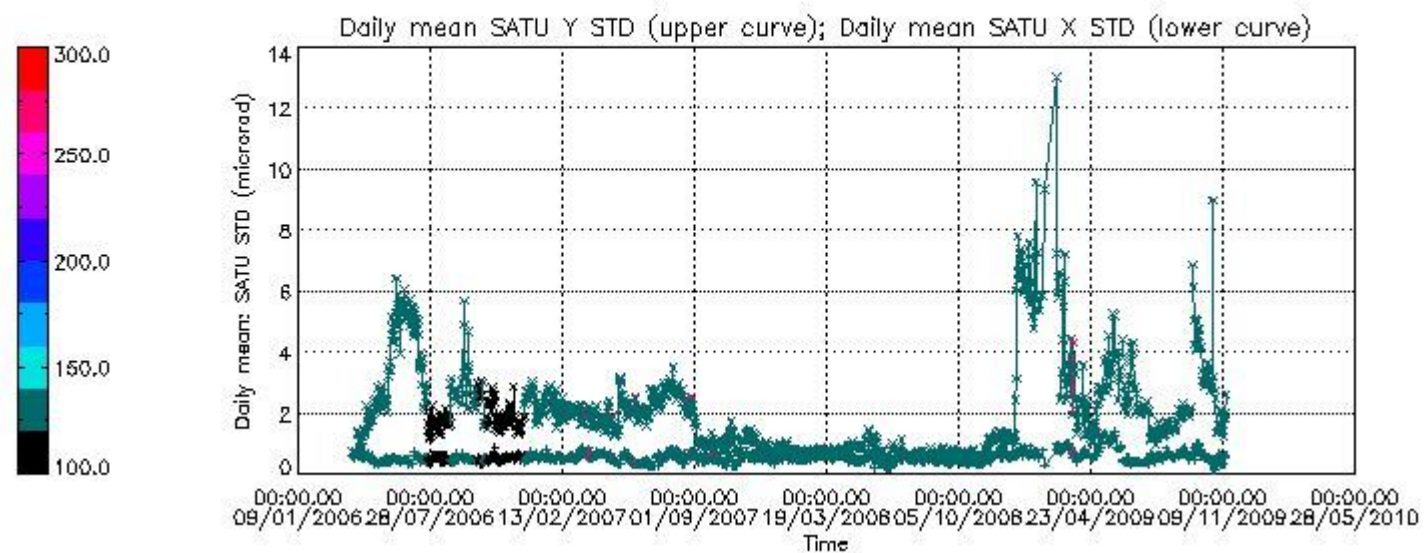
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

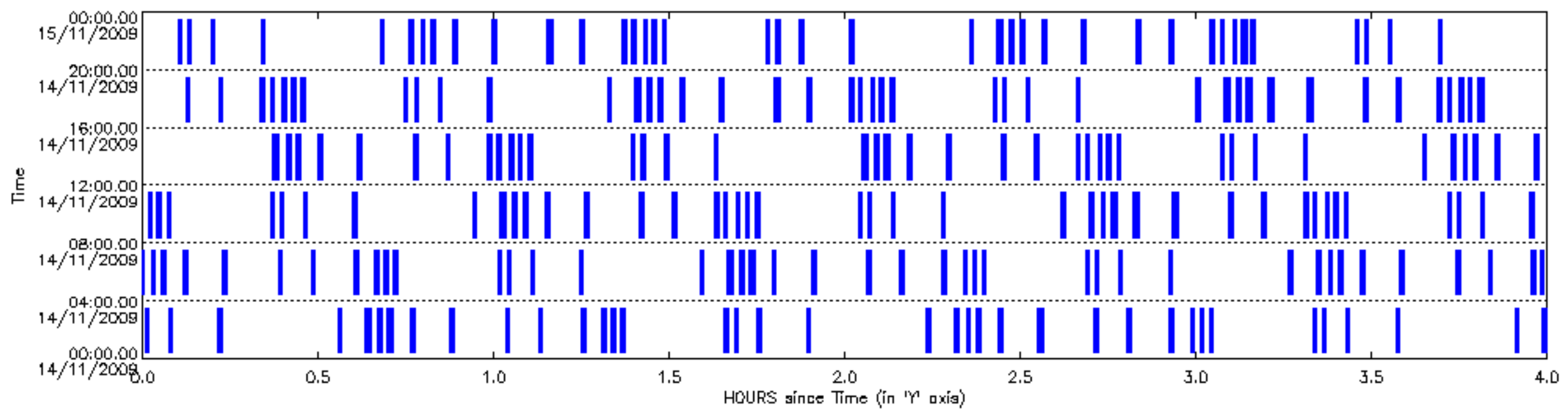
Lower curve: STD of SATU X axis

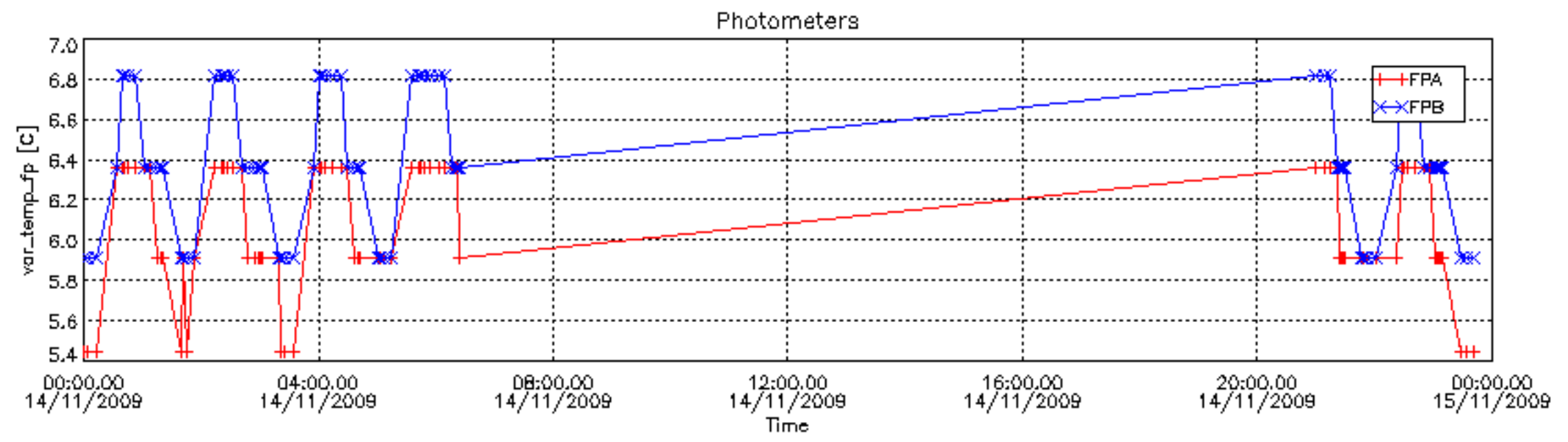
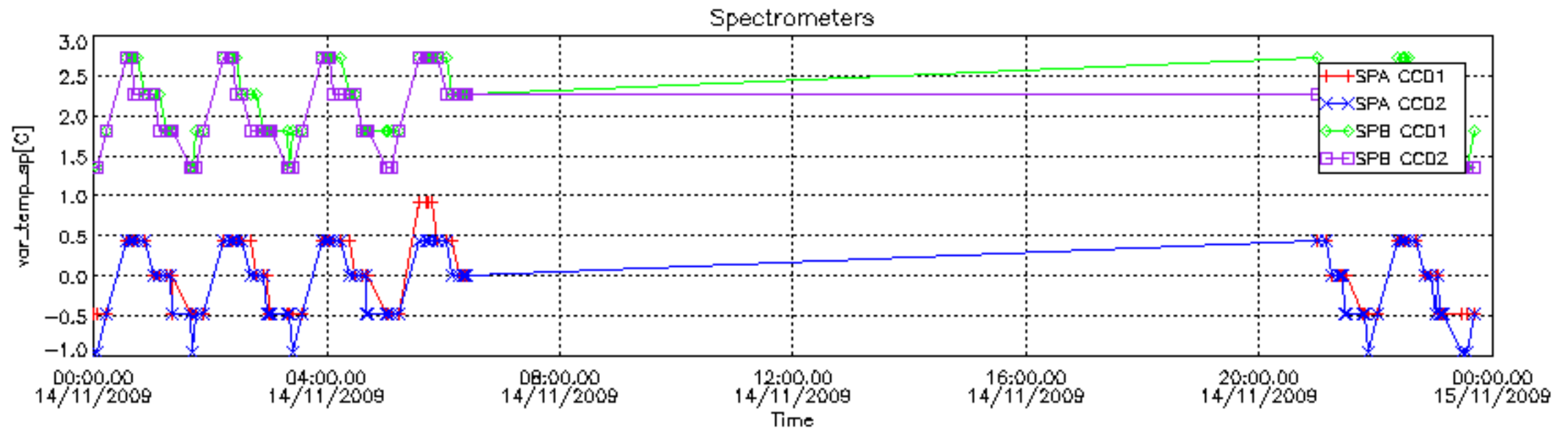


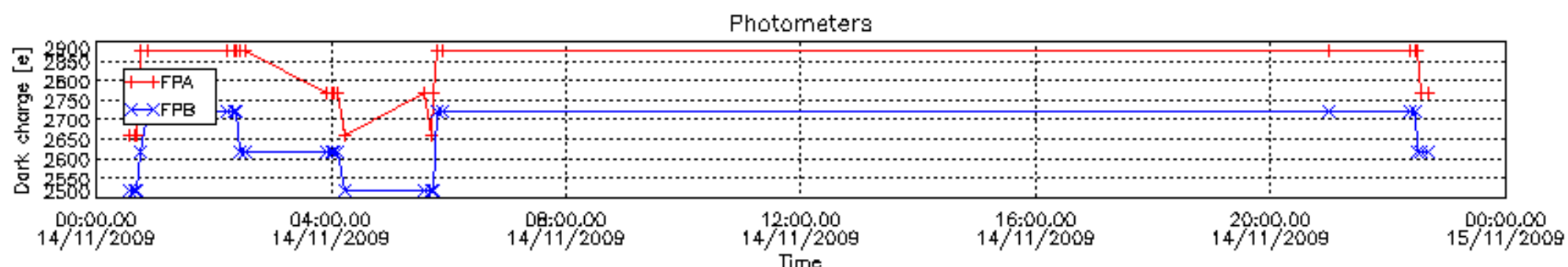
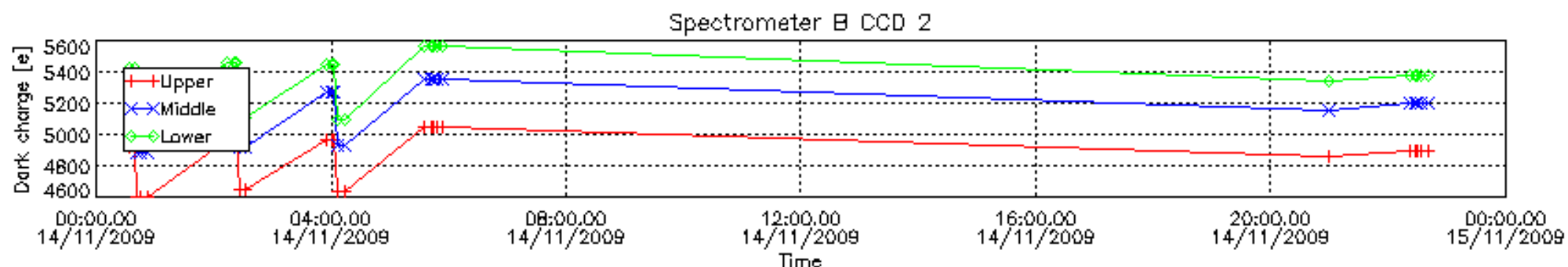
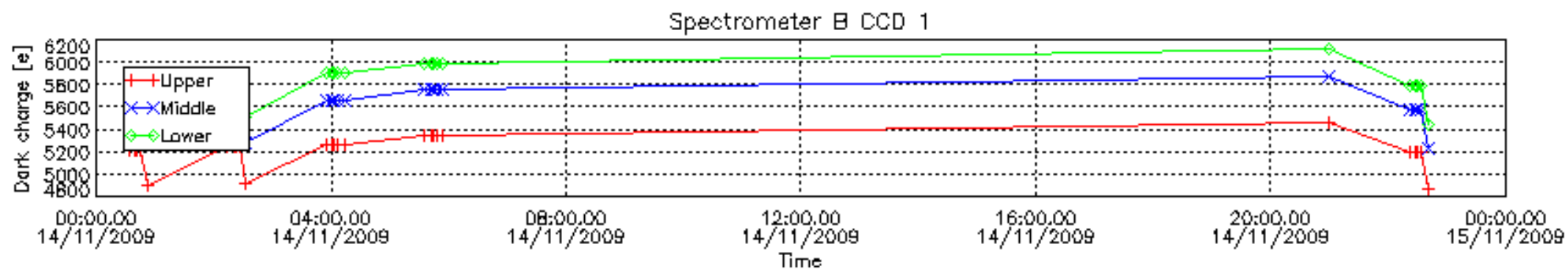
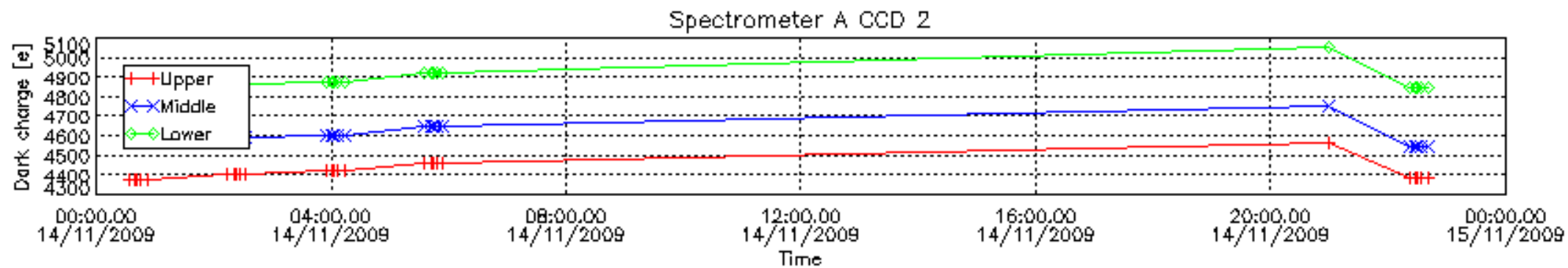
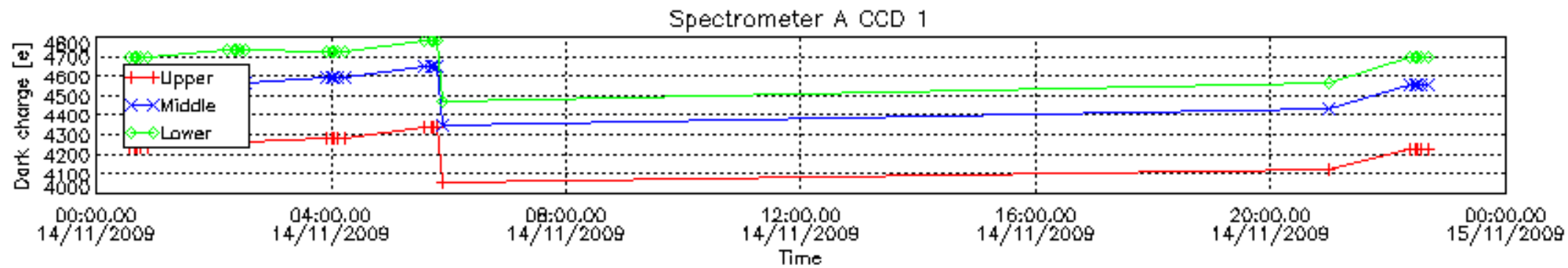
8. Auxiliary Data Files used for the production reported in section 2.4

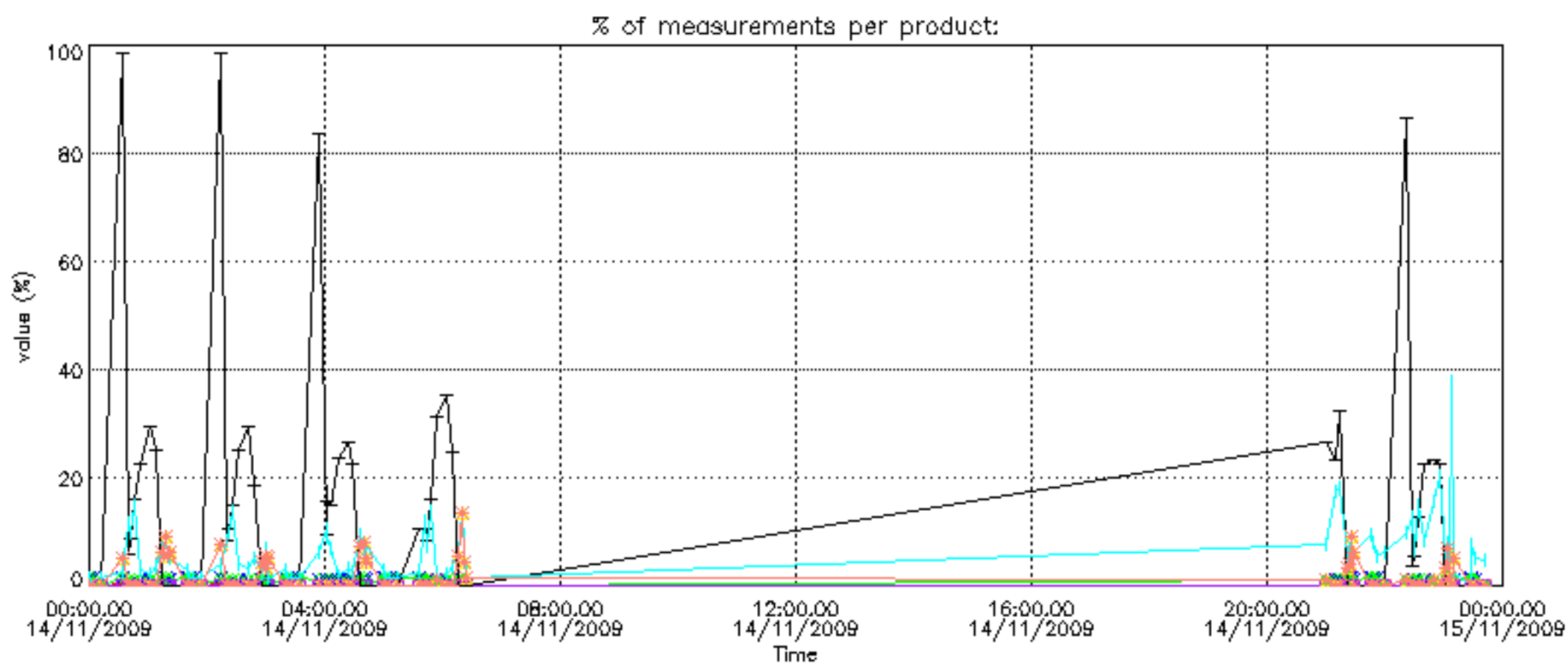
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-NOV-2009 00:00:26
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091106_091155_20091104_000000_20100101_000000	1	14-NOV-2009 00:00:26
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	14-NOV-2009 00:00:26
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-NOV-2009 00:00:26
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	14-NOV-2009 00:00:26
ECMWF_FILE	AUX_ECF_AXNECM20091113_064110_20091113_210000_20091114_090000	1	14-NOV-2009 00:00:26
ECMWF_FILE	AUX_ECF_AXNECM20091114_144112_20091114_150000_20091115_030000	60	14-NOV-2009 20:59:39
ECMWF_FILE	AUX_ECF_AXNECM20091114_144112_20091114_210000_20091115_090000	72	14-NOV-2009 22:21:13
OPTIONAL_ECMWF_FILE	MISSING	1	14-NOV-2009 00:00:26
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091113_010109_20091112_182350_20091122_213039	1	14-NOV-2009 00:00:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091114_001852_000057382084_00159_40293_9162.N1	4	14-NOV-2009 00:33:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091114_015949_000038252084_00160_40294_9163.N1	19	14-NOV-2009 02:13:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091114_030853_000060572084_00161_40295_9164.N1	30	14-NOV-2009 03:19:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091114_045509_000057382084_00162_40296_9165.N1	45	14-NOV-2009 05:00:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091114_205650_000038252084_00172_40306_9166.N1	60	14-NOV-2009 20:59:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091114_220554_000060572084_00172_40306_9167.N1	72	14-NOV-2009 22:21:13

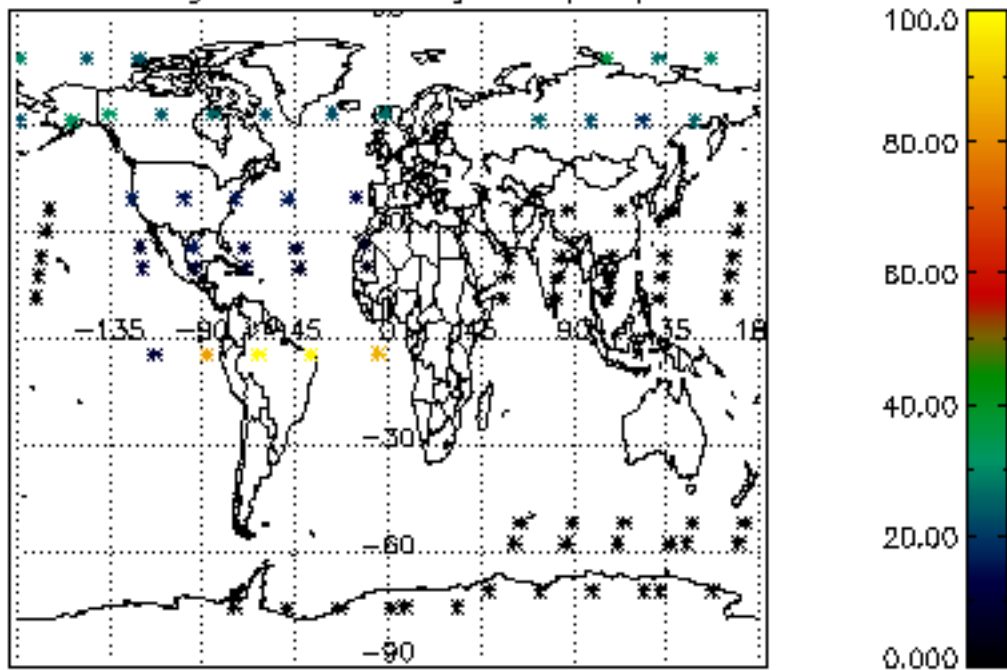




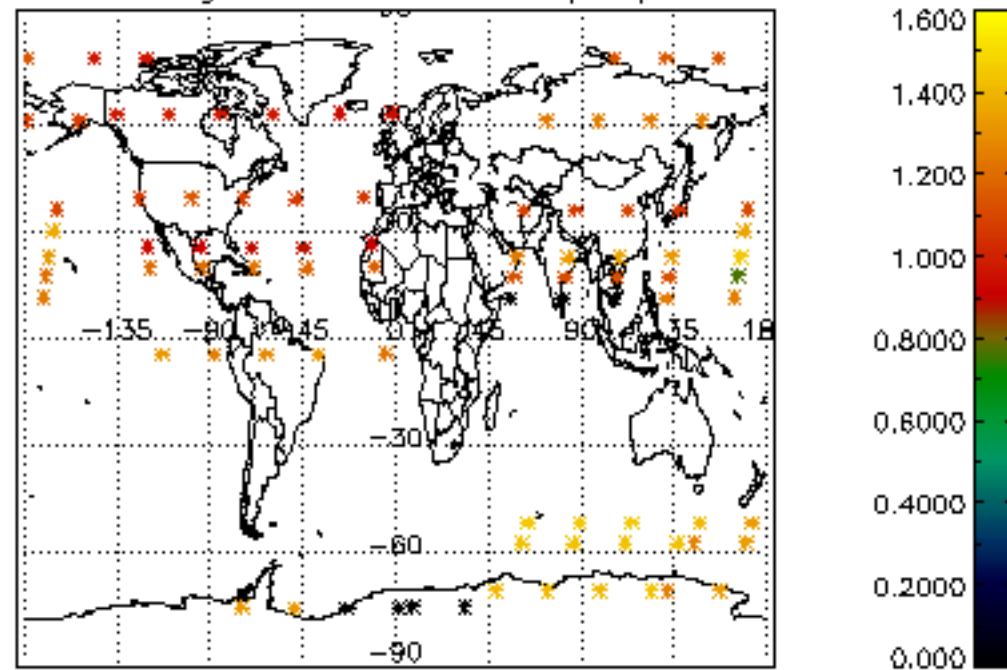




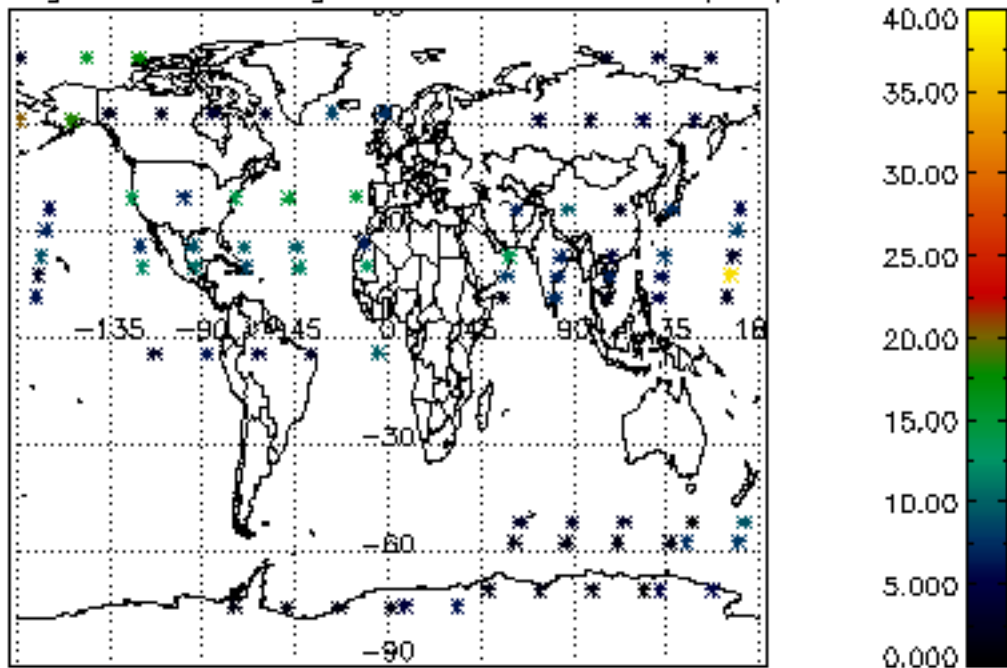
Percentage of cosmic ray hits per profile



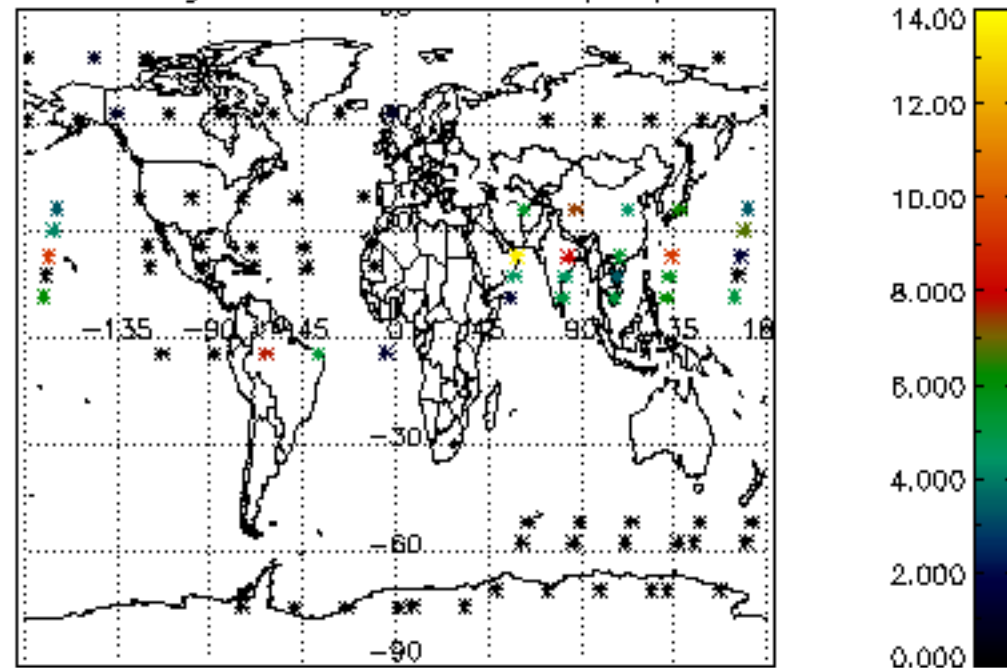
Percentage of datation errors per profile



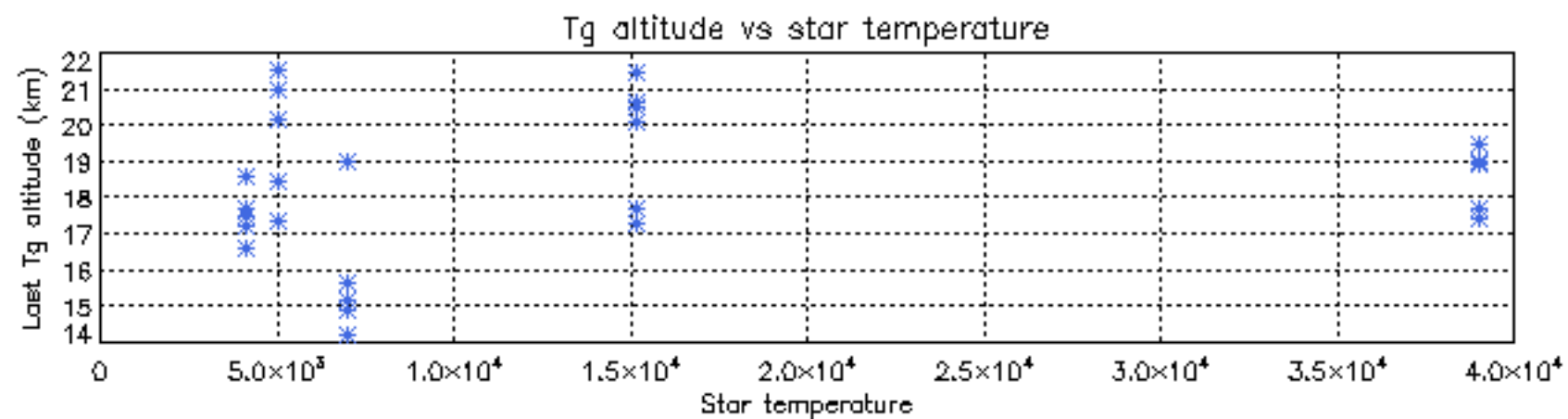
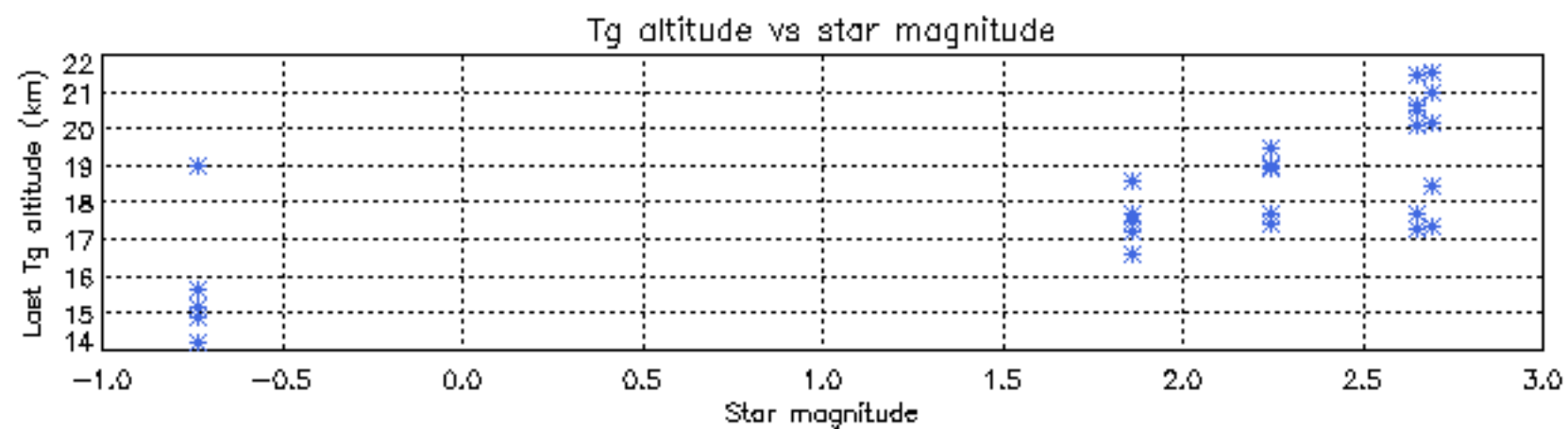
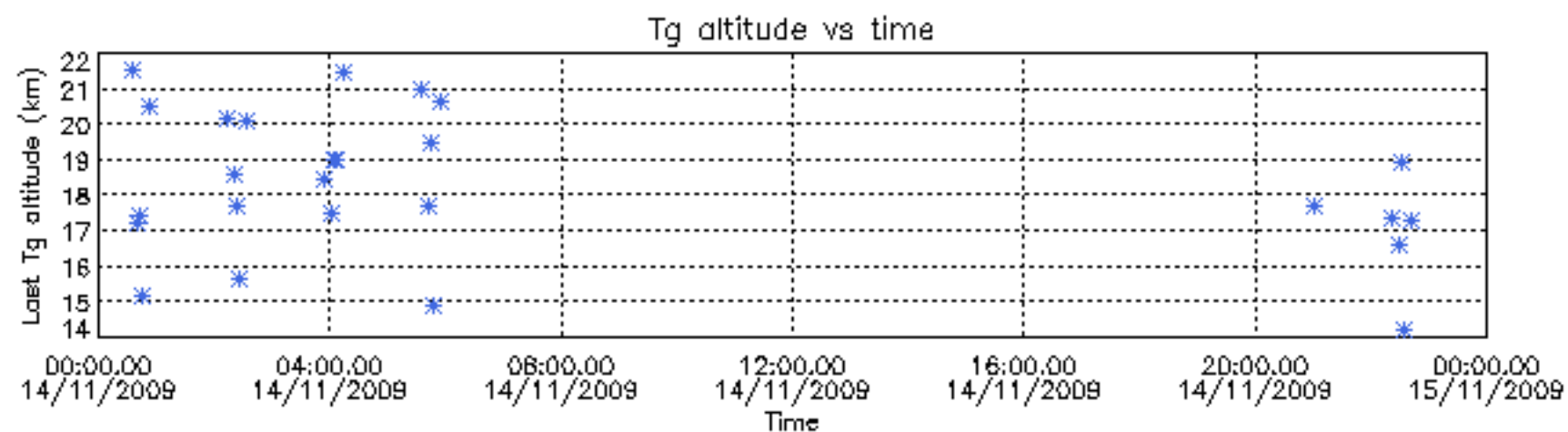
Percentage of star falling outside central band per profile



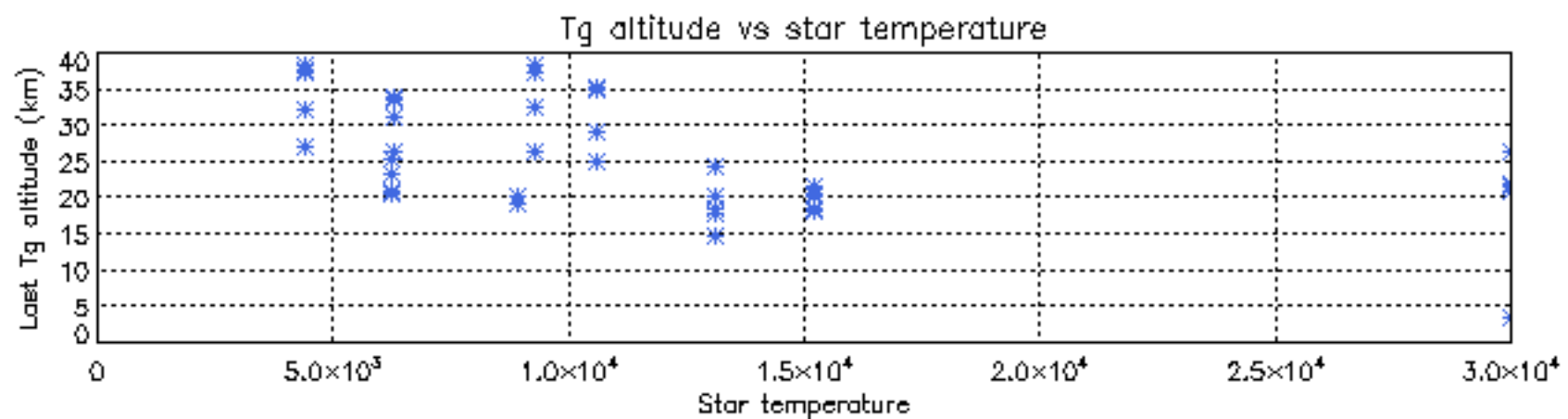
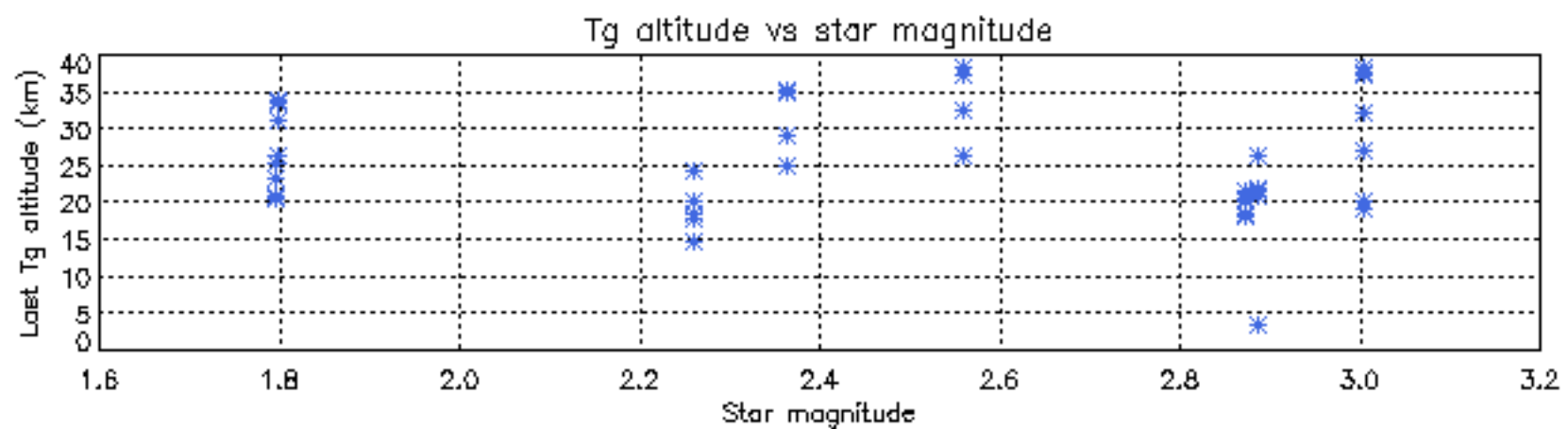
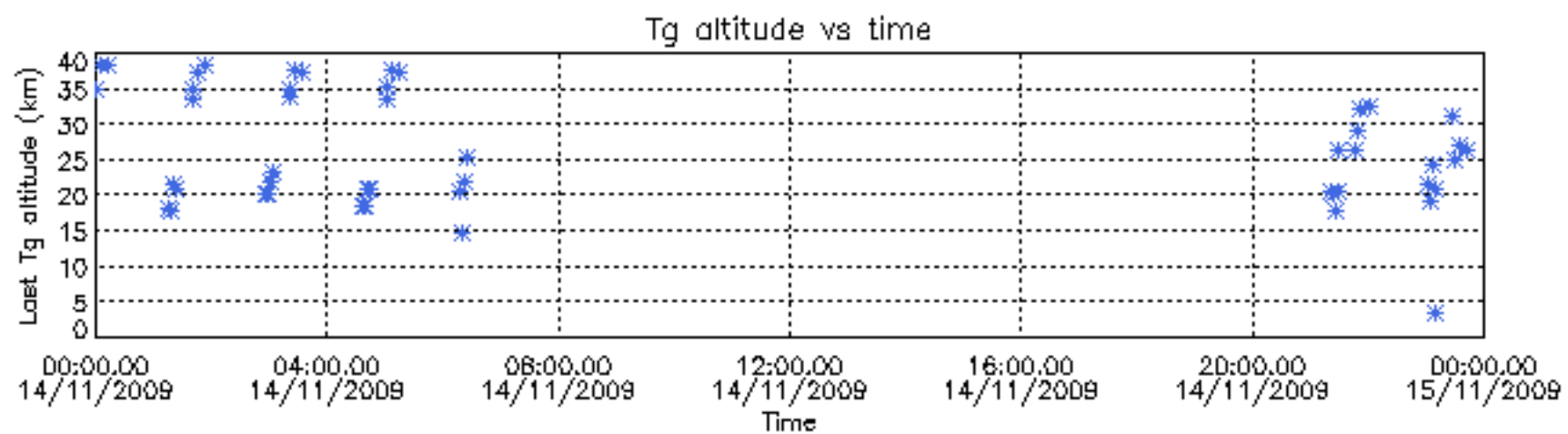
Percentage of saturation errors per profile

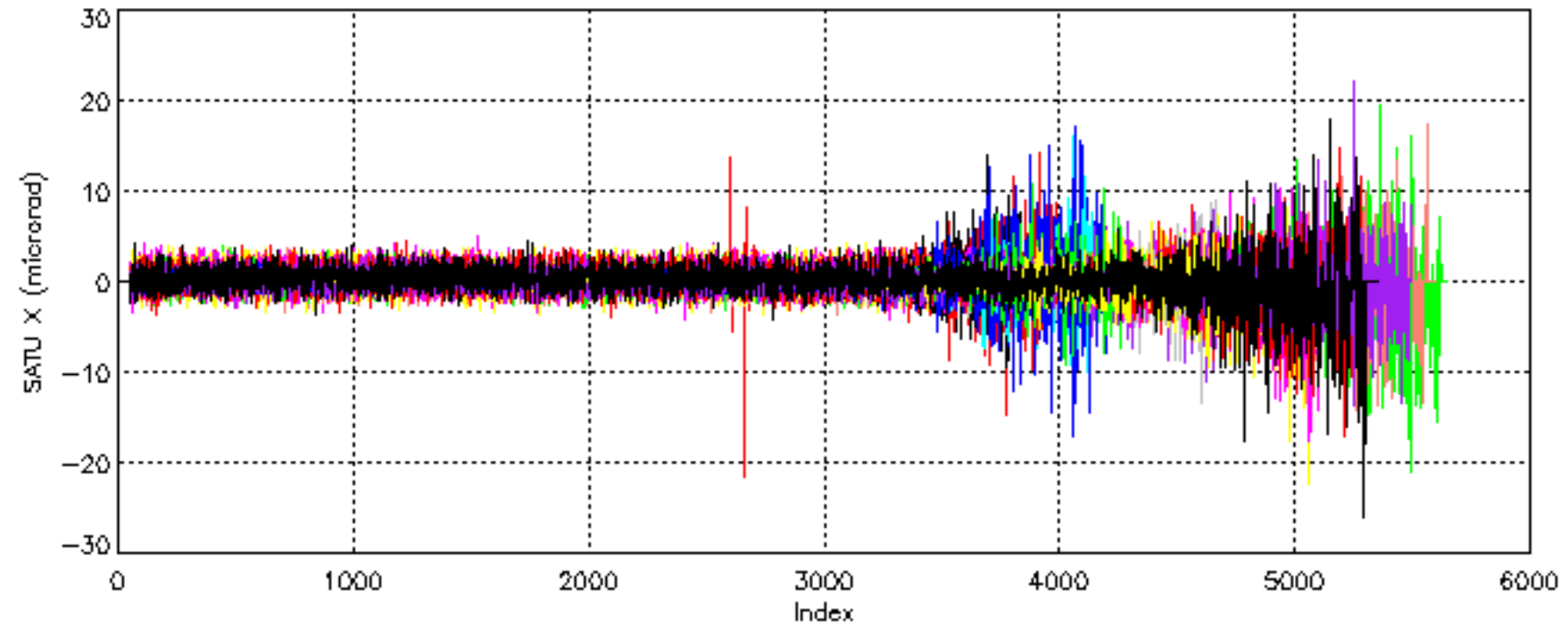


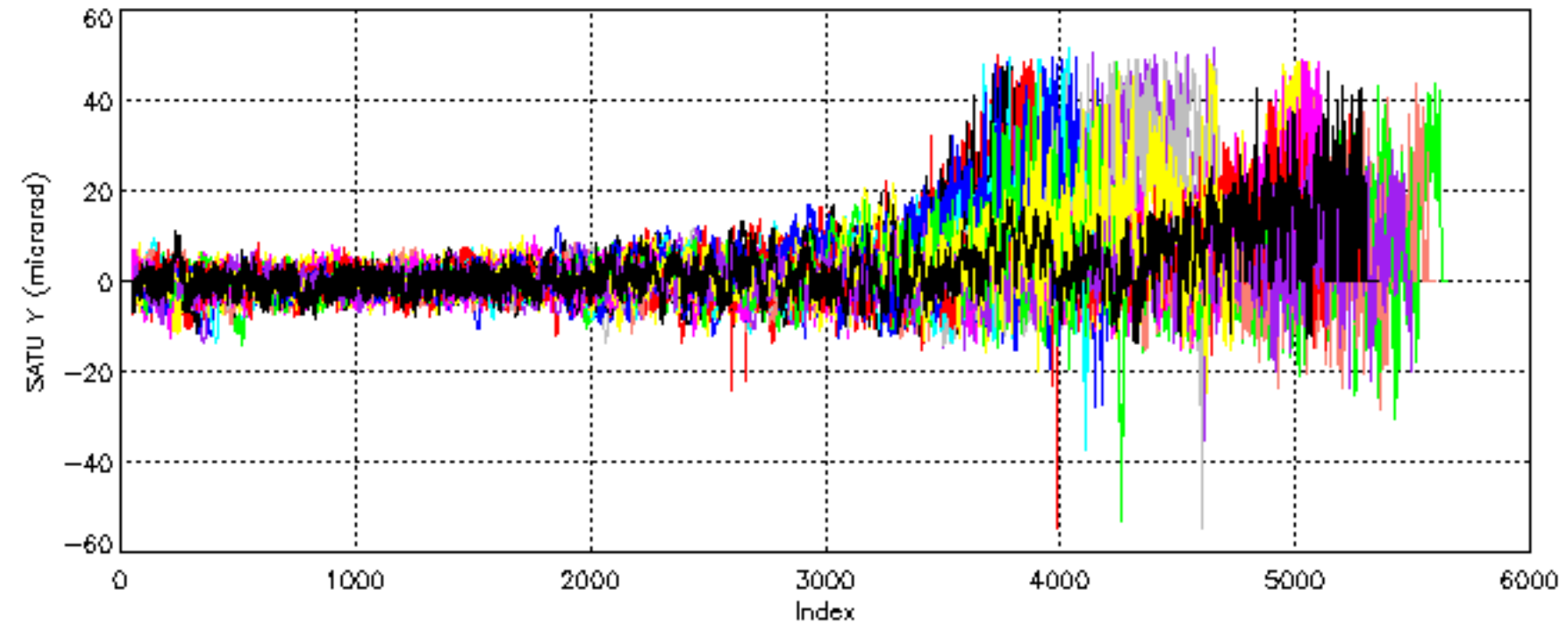
Tangent altitude at which the star is lost

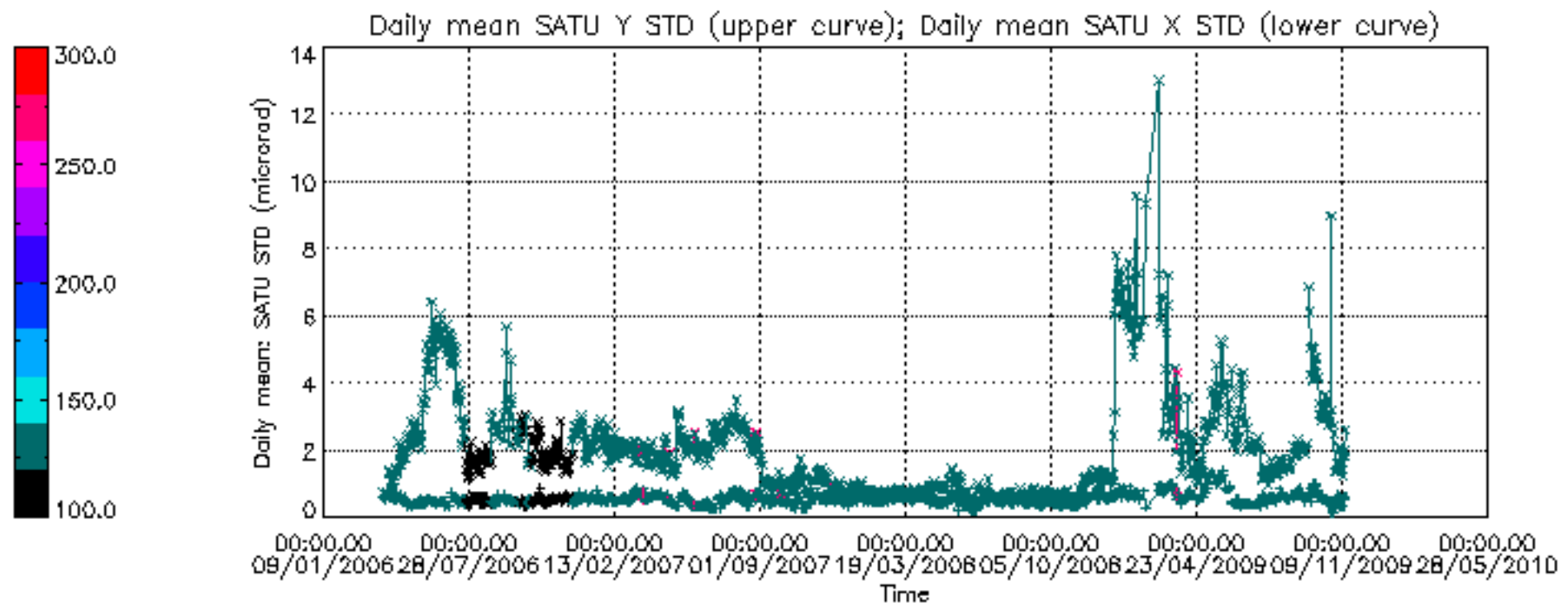


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091101_003421_000055302083_00474_40107_8843.N1

1; -534.0; 01-NOV-2009 00:34:21; Dark ; 68.5; 48; 30Alp Hya ; 1.98; 4100;occ; 137; 0;40107
 2; -19.6; 01-NOV-2009 00:42:55; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;40107
 3; 197.6; 01-NOV-2009 00:46:32; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40108
 4; 348.1; 01-NOV-2009 00:49:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40108
 5; 524.1; 01-NOV-2009 00:51:59; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;40108
 6; 908.8; 01-NOV-2009 00:58:23; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40108
 7; 2010.3; 01-NOV-2009 01:16:45; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;40108
 8; 2273.3; 01-NOV-2009 01:21:08; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40108
 9; 2538.3; 01-NOV-2009 01:25:33; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;40108
 10; 2660.8; 01-NOV-2009 01:27:35; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40108
 11; 2742.1; 01-NOV-2009 01:28:57; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;40108
 12; 2934.3; 01-NOV-2009 01:32:09; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;40108
 13; 3911.9; 01-NOV-2009 01:48:27; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;40108
 14; 4008.4; 01-NOV-2009 01:50:03; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;40108
 15; 4229.5; 01-NOV-2009 01:53:44; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;40108
 16; 4709.7; 01-NOV-2009 02:01:44; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40108
 17; 4938.4; 01-NOV-2009 02:05:33; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;40108

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091101_021458_000044602083_00475_40108_8844.N1

1; -532.5; 01-NOV-2009 02:14:58; Dark ; 66.0; 48; 30Alp Hya ; 1.98; 4100;occ; 132; 0;40108
 2; -18.6; 01-NOV-2009 02:23:32; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;40108
 3; 198.7; 01-NOV-2009 02:27:09; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40109
 4; 349.0; 01-NOV-2009 02:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40109
 5; 525.4; 01-NOV-2009 02:32:36; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;40109
 6; 910.1; 01-NOV-2009 02:39:01; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40109
 7; 2010.1; 01-NOV-2009 02:57:21; Dark ; 56.5; 94; 92Alp Cet ; 2.53; 3100;occ; 113; 0;40109
 8; 2273.2; 01-NOV-2009 03:01:44; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40109
 9; 2538.6; 01-NOV-2009 03:06:09; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40109
 10; 2660.6; 01-NOV-2009 03:08:11; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40109
 11; 2741.6; 01-NOV-2009 03:09:32; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;40109
 12; 2933.8; 01-NOV-2009 03:12:44; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;40109
 13; 3912.0; 01-NOV-2009 03:29:03; Bright; 16.0; 36; 50Alp UMa ; 1.80; 6300;occ; 32; 0;40109

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091101_032903_000050992083_00476_40109_8845.N1

1; -2124.0; 01-NOV-2009 03:29:03; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;40109
 2; -2027.5; 01-NOV-2009 03:30:39; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;40109
 3; -1806.5; 01-NOV-2009 03:34:20; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;40109
 4; -1325.9; 01-NOV-2009 03:42:21; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40109
 5; -1096.7; 01-NOV-2009 03:46:10; Bright; 53.0; 22; 32Alp Leo ; 1.36; 15200;occ; 106; 0;40109
 6; -531.1; 01-NOV-2009 03:55:35; Dark ; 66.0; 48; 30Alp Hya ; 1.98; 4100;occ; 132; 0;40109
 7; -17.4; 01-NOV-2009 04:04:09; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;40109
 8; 199.8; 01-NOV-2009 04:07:46; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40110
 9; 349.9; 01-NOV-2009 04:10:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40110
 10; 526.2; 01-NOV-2009 04:13:13; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;40110
 11; 911.1; 01-NOV-2009 04:19:38; Dark ; 31.0; 108; Alp Col ; 2.65; 15200;occ; 62; 0;40110
 12; 2010.0; 01-NOV-2009 04:37:57; Dark ; 53.5; 94; 92Alp Cet ; 2.53; 3100;occ; 107; 0;40110
 13; 2273.1; 01-NOV-2009 04:42:20; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40110
 14; 2538.3; 01-NOV-2009 04:46:45; Bright; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;40110
 15; 2933.6; 01-NOV-2009 04:53:20; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;40110

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1; -2124.0; 01-NOV-2009 05:09:39; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;40110
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6; 2928.5; 01-NOV-2009 21:39:14; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;40120
7; 3910.8; 01-NOV-2009 21:55:37; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;40120
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9; 4229.7; 01-NOV-2009 22:00:56; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;40120
10; 4753.7; 01-NOV-2009 22:09:40; Bright; 50.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 101; 0;40120
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21; 6923.4; 28-NOV-2009 11:53:20; Dark ; 67.0; 117; Pi Pup ; 2.71; 3800;occ; 134; 0;40500
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 3; 2245.5; 28-NOV-2009 13:56:34; Bright; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;40502
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 5; 2479.6; 28-NOV-2009 14:00:28; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40502
 6; 2626.7; 28-NOV-2009 14:02:55; Bright; 53.0; 149; 45Eps Per ; 2.89; 30000;occ; 106; 0;40502
 7; 2745.7; 28-NOV-2009 14:04:54; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;40502
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 17; 2848.9; 30-NOV-2009 23:06:58; Bright; 66.0; 6; 13Alp Aur ; 0.08; 3400;occ; 132; 0;40536
 18; 2958.8; 30-NOV-2009 23:08:48; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;40536
 19; 3821.6; 30-NOV-2009 23:23:11; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;40536
 20; 3917.7; 30-NOV-2009 23:24:47; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;40536
 21; 4014.5; 30-NOV-2009 23:26:24; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;40536
 22; 4187.8; 30-NOV-2009 23:29:17; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;40536
 23; 4347.9; 30-NOV-2009 23:31:57; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;40536
 24; 4922.0; 30-NOV-2009 23:41:31; Bright; 80.0; 62; 94Bet Leo ; 2.14; 9700;occ; 160; 0;40536
 25; 5119.7; 30-NOV-2009 23:44:49; Bright; 61.5; 121; 29Gam Vir ; 2.74; 7200;occ; 123; 0;40536

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 3; 87.6; 01-DEC-2009 00:01:33; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;40537
 4; 406.8; 01-DEC-2009 00:06:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40537
 5; 605.0; 01-DEC-2009 00:10:10; Dark ; 50.0; 34; Gam2Vel ; 1.79; 23000;occ; 100; 0;40537
 6; 710.5; 01-DEC-2009 00:11:56; Dark ; 57.0; 70; Zet Pup ; 2.25; 39000;occ; 114; 0;40537
 7; 918.8; 01-DEC-2009 00:15:24; Dark ; 57.0; 117; Pi Pup ; 2.71; 3800;occ; 114; 0;40537
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 9; 1535.5; 01-DEC-2009 00:25:41; Dark ; 55.5; 101; 11Alp Lep ; 2.58; 7000;occ; 111; 0;40537
 10; 1752.2; 01-DEC-2009 00:29:17; Dark ; 57.0; 7; 19Bet Ori ; 0.10; 14000;occ; 114; 0;40537
 11; 1933.4; 01-DEC-2009 00:32:19; Dark ; 63.0; 30; 46Eps Ori ; 1.69; 30000;occ; 126; 0;40537
 12; 2096.9; 01-DEC-2009 00:35:02; Dark ; 62.5; 27; 24Gam Ori ; 1.64; 26000;occ; 125; 0;40537
 13; 2232.1; 01-DEC-2009 00:37:17; Bright; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;40537
 14; 2328.6; 01-DEC-2009 00:38:54; Bright; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;40537
 15; 2470.6; 01-DEC-2009 00:41:16; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40537
 16; 2616.4; 01-DEC-2009 00:43:42; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;40537
 17; 2848.1; 01-DEC-2009 00:47:33; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;40537
 18; 2957.8; 01-DEC-2009 00:49:23; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;40537
 19; 3821.1; 01-DEC-2009 01:03:46; Bright; 50.0; 36; 50Alp UMa ; 1.80; 6300;occ; 100; 0;40537
 20; 3917.5; 01-DEC-2009 01:05:23; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;40537
 21; 4014.5; 01-DEC-2009 01:07:00; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;40537
 22; 4187.4; 01-DEC-2009 01:09:53; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;40537
 23; 4347.9; 01-DEC-2009 01:12:33; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;40537
 24; 4922.8; 01-DEC-2009 01:22:08; Bright; 58.5; 62; 94Bet Leo ; 2.14; 9700;occ; 117; 0;40537
 25; 5120.4; 01-DEC-2009 01:25:26; Bright; 61.5; 121; 29Gam Vir ; 2.74; 7200;occ; 123; 0;40537

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 3; 2102.3; 30-NOV-2009 07:49:08; Dark ; 64.5; 27; 24Gam Ori ; 1.64; 26000;occ; 129; 0;40527
 4; 2236.0; 30-NOV-2009 07:51:22; Bright; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;40527
 5; 2330.4; 30-NOV-2009 07:52:56; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40527
 6; 2473.2; 30-NOV-2009 07:55:19; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40527
 7; 2619.3; 30-NOV-2009 07:57:45; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40527
 8; 2854.9; 30-NOV-2009 08:01:41; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;40527
 9; 2967.6; 30-NOV-2009 08:03:34; Bright; 51.5; 42; 34Bet Aur ; 1.90; 10200;occ; 103; 0;40527
 10; 3824.7; 30-NOV-2009 08:17:51; Bright; 43.5; 36; 50Alp UMa ; 1.80; 6300;occ; 87; 0;40527
 11; 3921.6; 30-NOV-2009 08:19:28; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;40527
 12; 4015.5; 30-NOV-2009 08:21:02; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;40527
 13; 4190.0; 30-NOV-2009 08:23:56; Bright; 76.0; 174; 52Psi UMa ; 3.00; 4400;occ; 152; 0;40527
 14; 4347.6; 30-NOV-2009 08:26:34; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;40527
 15; 4916.2; 30-NOV-2009 08:36:02; Bright; 54.5; 62; 94Bet Leo ; 2.14; 9700;occ; 109; 0;40527

16; 5114.6; 30-NOV-2009 08:39:21; Bright; 41.5; 121; 29Gam Vir ; 2.74; 7200;occ; 83; 0;40527
 17; 5452.5; 30-NOV-2009 08:44:59; Dark ; 48.0; 100; 4Gam Crv ; 2.58; 13100;occ; 96; 0;40527
 18; 5547.9; 30-NOV-2009 08:46:34; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;40527
 19; 6116.7; 30-NOV-2009 08:56:03; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40527
 20; 6435.1; 30-NOV-2009 09:01:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40527
 21; 6633.2; 30-NOV-2009 09:04:39; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40527
 22; 6737.1; 30-NOV-2009 09:06:23; Dark ; 56.5; 70; Zet Pup ; 2.25; 39000;occ; 113; 0;40527
 23; 6947.3; 30-NOV-2009 09:09:53; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40527
 24; 7176.4; 30-NOV-2009 09:13:42; Dark ; 67.5; 23; 21Eps CMA ; 1.50; 26000;occ; 135; 0;40527
 25; 7570.4; 30-NOV-2009 09:20:17; Dark ; 53.5; 101; 11Alp Lep ; 2.58; 7000;occ; 107; 0;40527

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 4; 2235.6; 30-NOV-2009 09:31:58; Bright; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;40528
 5; 2330.3; 30-NOV-2009 09:33:32; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40528
 6; 2472.9; 30-NOV-2009 09:35:55; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40528
 7; 2618.7; 30-NOV-2009 09:38:21; Bright; 39.0; 149; 45Eps Per ; 2.89; 30000;occ; 78; 0;40528
 8; 2854.2; 30-NOV-2009 09:42:16; Bright; 50.0; 6; 13Alp Aur ; 0.08; 3400;occ; 100; 0;40528
 9; 2966.6; 30-NOV-2009 09:44:09; Bright; 49.5; 42; 34Bet Aur ; 1.90; 10200;occ; 99; 0;40528
 10; 3824.4; 30-NOV-2009 09:58:26; Bright; 47.5; 36; 50Alp UMa ; 1.80; 6300;occ; 95; 0;40528
 11; 3920.9; 30-NOV-2009 10:00:03; Bright; 42.5; 82; 48Bet UMa ; 2.37; 10600;occ; 85; 0;40528
 12; 4015.3; 30-NOV-2009 10:01:37; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;40528
 13; 4190.1; 30-NOV-2009 10:04:32; Bright; 49.5; 174; 52Psi UMa ; 3.00; 4400;occ; 99; 0;40528
 14; 4347.7; 30-NOV-2009 10:07:10; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;40528
 15; 4916.8; 30-NOV-2009 10:16:39; Bright; 57.5; 62; 94Bet Leo ; 2.14; 9700;occ; 115; 0;40528
 16; 5115.3; 30-NOV-2009 10:19:57; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;40528
 17; 5453.4; 30-NOV-2009 10:25:35; Dark ; 46.0; 100; 4Gam Crv ; 2.58; 13100;occ; 92; 0;40528
 18; 5548.9; 30-NOV-2009 10:27:11; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;40528
 19; 6117.4; 30-NOV-2009 10:36:39; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40528
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 21; 6634.1; 30-NOV-2009 10:45:16; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;40528
 22; 6738.1; 30-NOV-2009 10:47:00; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;40528
 23; 6947.9; 30-NOV-2009 10:50:30; Dark ; 67.0; 117; Pi Pup ; 2.71; 3800;occ; 134; 0;40528
 24; 7177.3; 30-NOV-2009 10:54:19; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;40528
 25; 7570.4; 30-NOV-2009 11:00:52; Dark ; 54.0; 101; 11Alp Lep ; 2.58; 7000;occ; 108; 0;40528

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 5; 2235.1; 30-NOV-2009 11:12:33; Bright; 54.5; 13; 87Alp Tau ; 0.87; 3800;occ; 109; 0;40529
 6; 2330.0; 30-NOV-2009 11:14:08; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40529
 7; 2472.6; 30-NOV-2009 11:16:30; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40529
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 12; 3920.6; 30-NOV-2009 11:40:38; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;40529
 13; 4015.3; 30-NOV-2009 11:42:13; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;40529
 14; 4189.5; 30-NOV-2009 11:45:07; Bright; 52.5; 174; 52Psi UMa ; 3.00; 4400;occ; 105; 0;40529
 15; 4347.5; 30-NOV-2009 11:47:45; Bright; 45.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 90; 0;40529
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 17; 5115.9; 30-NOV-2009 12:00:34; Bright; 43.5; 121; 29Gam Vir ; 2.74; 7200;occ; 87; 0;40529
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 19; 5549.6; 30-NOV-2009 12:07:47; Dark ; 51.0; 171; 2Eps Crv ; 3.00; 4250;occ; 102; 0;40529
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 22; 6634.7; 30-NOV-2009 12:25:53; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40529
 23; 6739.0; 30-NOV-2009 12:27:37; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;40529
 24; 6948.8; 30-NOV-2009 12:31:07; Dark ; 64.5; 117; Pi Pup ; 2.71; 3800;occ; 129; 0;40529
 25; 7178.0; 30-NOV-2009 12:34:56; Dark ; 67.0; 23; 21Eps CMA ; 1.50; 26000;occ; 134; 0;40529
 26; 7570.7; 30-NOV-2009 12:41:28; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;40529

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 2; 1753.0; 30-NOV-2009 12:45:07; Dark ; 58.5; 7; 19Bet Ori ; 0.10; 14000;occ; 117; 0;40530
 3; 1936.4; 30-NOV-2009 12:48:10; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;40530
 4; 2100.6; 30-NOV-2009 12:50:54; Dark ; 64.0; 27; 24Gam Ori ; 1.64; 26000;occ; 128; 0;40530

5; 2234.8; 30-NOV-2009 12:53:08; Bright; 60.5; 13; 87Alp Tau ; 0.87; 3800;occ; 121; 0;40530
6; 2329.9; 30-NOV-2009 12:54:44; Bright; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;40530
7; 2472.5; 30-NOV-2009 12:57:06; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40530
8; 2618.5; 30-NOV-2009 12:59:32; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;40530
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11; 3823.6; 30-NOV-2009 13:19:37; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;40530
12; 3920.1; 30-NOV-2009 13:21:14; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;40530
13; 4015.4; 30-NOV-2009 13:22:49; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;40530
14; 4189.4; 30-NOV-2009 13:25:43; Bright; 65.0; 174; 52Psi UMa ; 3.00; 4400;occ; 130; 0;40530
15; 4347.9; 30-NOV-2009 13:28:22; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;40530
16; 4918.0; 30-NOV-2009 13:37:52; Bright; 59.0; 62; 94Bet Leo ; 2.14; 9700;occ; 118; 0;40530
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19; 5550.3; 30-NOV-2009 13:48:24; Dark ; 50.5; 171; 2Eps Crv ; 3.00; 4250;occ; 101; 0;40530
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23; 6740.1; 30-NOV-2009 14:08:14; Dark ; 58.5; 70; Zet Pup ; 2.25; 39000;occ; 117; 0;40530
24; 6949.9; 30-NOV-2009 14:11:44; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40530
25; 7178.8; 30-NOV-2009 14:15:32; Dark ; 68.5; 23; 21Eps CMa ; 1.50; 26000;occ; 137; 0;40530
26; 7570.8; 30-NOV-2009 14:22:04; Dark ; 6.5; 101; 11Alp Lep ; 2.58; 7000;occ; 13; 0;40530

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4; 2100.0; 30-NOV-2009 14:31:30; Dark ; 63.0; 27; 24Gam Ori ; 1.64; 26000;occ; 126; 0;40531
5; 2234.4; 30-NOV-2009 14:33:44; Bright; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;40531
6; 2329.7; 30-NOV-2009 14:35:19; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;40531
7; 2472.3; 30-NOV-2009 14:37:42; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;40531
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10; 2963.8; 30-NOV-2009 14:45:53; Bright; 50.5; 42; 34Bet Aur ; 1.90; 10200;occ; 101; 0;40531
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13; 4015.2; 30-NOV-2009 15:03:25; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;40531
14; 4189.2; 30-NOV-2009 15:06:19; Bright; 53.5; 174; 52Psi UMa ; 3.00; 4400;occ; 107; 0;40531
15; 4347.9; 30-NOV-2009 15:08:57; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;40531
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17; 5117.1; 30-NOV-2009 15:21:47; Bright; 61.0; 121; 29Gam Vir ; 2.74; 7200;occ; 122; 0;40531
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19; 5551.1; 30-NOV-2009 15:29:01; Dark ; 49.5; 171; 2Eps Crv ; 3.00; 4250;occ; 99; 0;40531
20; 6119.7; 30-NOV-2009 15:38:29; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;40531
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