

# GOMOS Daily Report 16-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 05:03:30
Data source version	GOMOS/5.00L03
Start time of products	16NOV2009 00:04:18
Stop time of products	16NOV2009 23:46:35
Store outputs in DB	Yes
Nb of level 1b prods	120
Nb of prods with errors	0

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

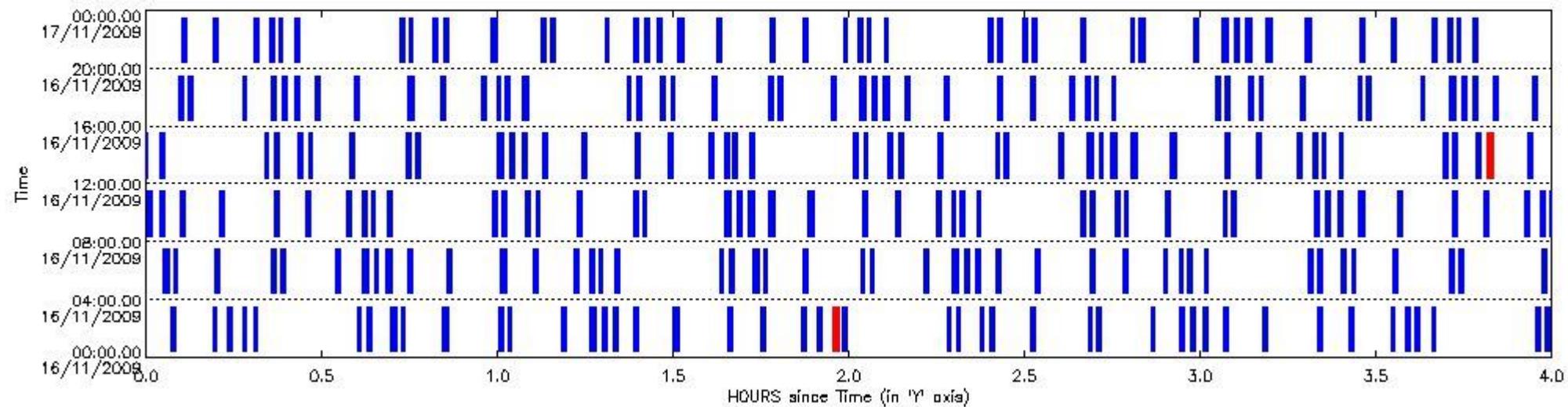
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
16-NOV-2009 01:57:09	45EpsPer	149	40323
16-NOV-2009 15:49:02	12Alp2CVn	152	40331

### 2.4 Summary of processed GOM\_TRA\_1P products

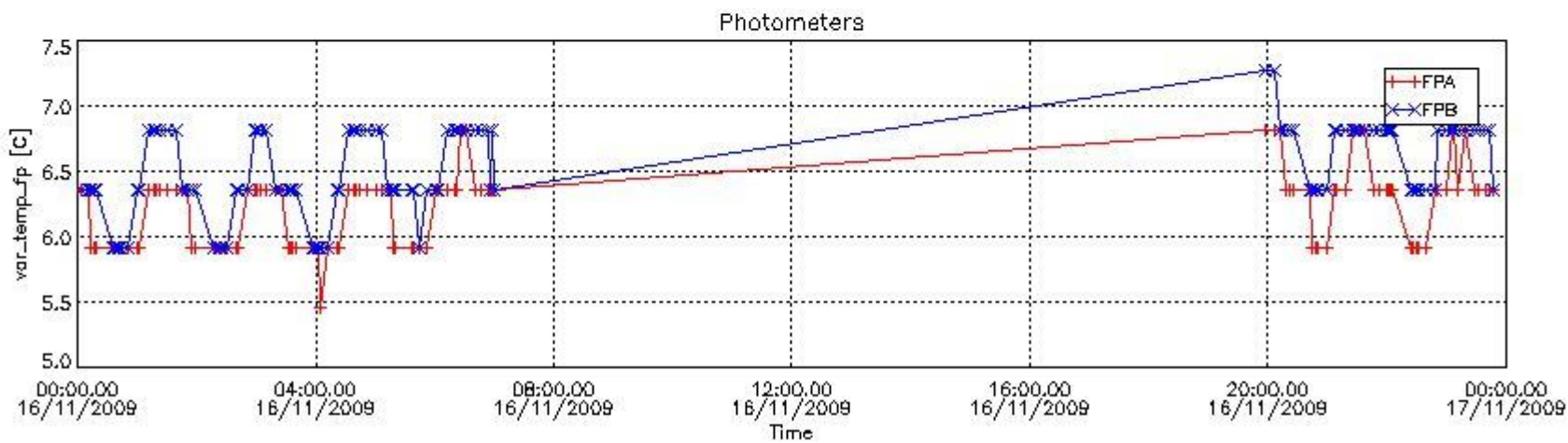
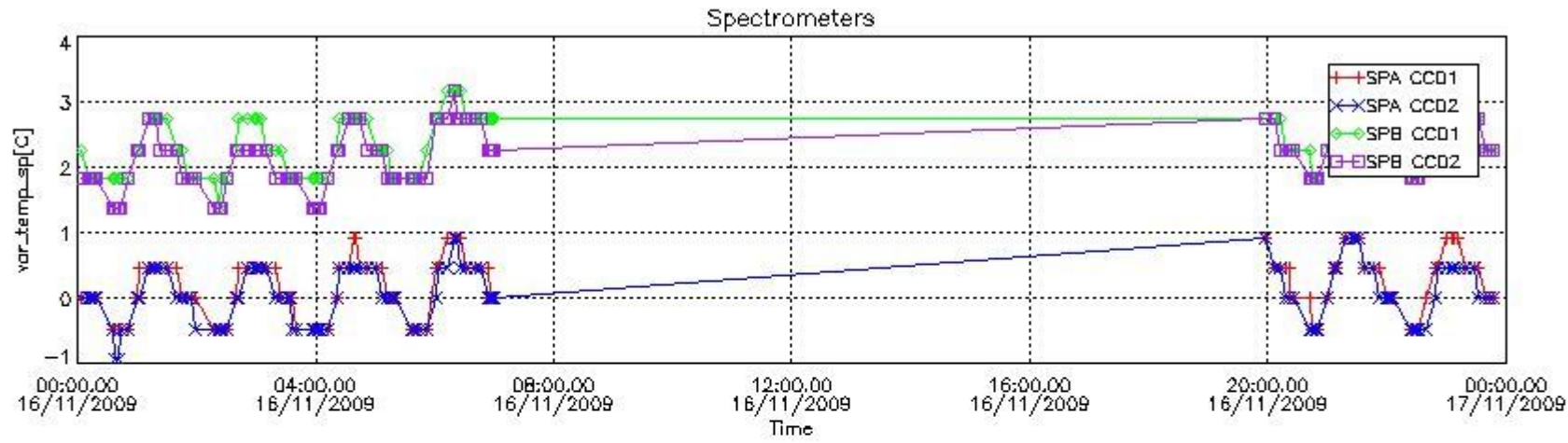
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091116_000418_000000482084_00188_40322_3642.N1	16-NOV-2009 00:04:18	Twilight_and_stray	47.500	94	92Alp Cet	2.5260	3100.0	95	40322	No
2	GOM_TRA_1PNPDE20091116_001118_000000452084_00188_40322_3643.N1	16-NOV-2009 00:11:18	Bright	45.000	146	25Eta Tau	2.8730	15200.	90	40322	No
3	GOM_TRA_1PNPDE20091116_001357_000000452084_00188_40322_3644.N1	16-NOV-2009 00:13:57	Bright	44.500	150	44Zet Per	2.8900	28000.	89	40322	No
4	GOM_TRA_1PNPDE20091116_001628_000000422084_00188_40322_3645.N1	16-NOV-2009 00:16:28	Bright	41.500	149	45Eps Per	2.8880	30000.	83	40322	No
5	GOM_TRA_1PNPDE20091116_001817_000000402084_00188_40322_3646.N1	16-NOV-2009 00:18:17	Bright	40.000	35	33Alp Per	1.7950	6250.0	80	40322	No
6	GOM_TRA_1PNPDE20091116_003604_000000392084_00188_40322_3647.N1	16-NOV-2009 00:36:04	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	40322	No
7	GOM_TRA_1PNPDE20091116_003742_000000402084_00188_40322_3648.N1	16-NOV-2009 00:37:42	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	40322	No
8	GOM_TRA_1PNPDE20091116_004145_000000642084_00188_40322_3649.N1	16-NOV-2009 00:41:45	Bright	64.000	174	52Psi UMa	3.0040	4400.0	128	40322	No
9	GOM_TRA_1PNPDE20091116_004332_000000412084_00188_40322_3650.N1	16-NOV-2009 00:43:32	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	40322	No

10	GOM_TRA_1PNPDE20091116_005024_000000692084_00188_40322_3651.N1	16-NOV-2009 00:50:24	Bright	69.000	96	68Del Leo	2.5600	9300.0	138	40322	No
11	GOM_TRA_1PNPDE20091116_010011_000000402084_00188_40322_3652.N1	16-NOV-2009 01:00:11	Twilight	40.000	100	4Gam Crv	2.5800	13100.	80	40322	No
12	GOM_TRA_1PNPDE20091116_010011_000000412084_00188_40322_3673.N1	16-NOV-2009 01:00:11	Twilight	40.500	100	4Gam Crv	2.5800	13100.	81	40322	No
13	GOM_TRA_1PNPDE20091116_010142_000000422084_00188_40322_3674.N1	16-NOV-2009 01:01:42	Twilight	42.000	171	2Eps Crv	3.0010	4250.0	84	40322	No
14	GOM_TRA_1PNPDE20091116_011057_000000432084_00188_40322_3675.N1	16-NOV-2009 01:10:57	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	40322	No
15	GOM_TRA_1PNPDE20091116_011749_000000422084_00189_40323_3676.N1	16-NOV-2009 01:17:49	Dark	42.000	41	Eps Car	1.8600	4100.0	84	40323	No
16	GOM_TRA_1PNPDE20091116_011943_000000562084_00189_40323_3677.N1	16-NOV-2009 01:19:43	Dark	55.500	70	Zet Pup	2.2460	39000.	111	40323	No
17	GOM_TRA_1PNPDE20091116_012319_000000482084_00189_40323_3678.N1	16-NOV-2009 01:23:19	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40323	No
18	GOM_TRA_1PNPDE20091116_013001_000000542084_00189_40323_3679.N1	16-NOV-2009 01:30:01	Dark	53.500	108	Alp Col	2.6520	15200.	107	40323	No
19	GOM_TRA_1PNPDE20091116_013919_000000512084_00189_40323_3680.N1	16-NOV-2009 01:39:19	Straylight	51.000	165	34Gam Eri	2.9500	3200.0	102	40323	No
20	GOM_TRA_1PNPDE20091116_014453_000000472084_00189_40323_3681.N1	16-NOV-2009 01:44:53	Twilight	46.500	94	92Alp Cet	2.5260	3100.0	93	40323	No
21	GOM_TRA_1PNPDE20091116_015153_000000442084_00189_40323_3682.N1	16-NOV-2009 01:51:53	Bright	44.000	146	25Eta Tau	2.8730	15200.	88	40323	No
22	GOM_TRA_1PNPDE20091116_015432_000000442084_00189_40323_3683.N1	16-NOV-2009 01:54:32	Bright	43.500	150	44Zet Per	2.8900	28000.	87	40323	No
23	GOM_TRA_1PNPDE20091116_015852_000000382084_00189_40323_3684.N1	16-NOV-2009 01:58:52	Bright	38.000	35	33Alp Per	1.7950	6250.0	76	40323	No
24	GOM_TRA_1PNPDE20091116_021639_000000452084_00189_40323_3685.N1	16-NOV-2009 02:16:39	Bright	45.000	36	50Alp UMa	1.8000	6300.0	90	40323	No
25	GOM_TRA_1PNPDE20091116_021818_000000452084_00189_40323_3686.N1	16-NOV-2009 02:18:18	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	40323	No
26	GOM_TRA_1PNPDE20091116_022221_000000432084_00189_40323_3665.N1	16-NOV-2009 02:22:21	Bright	42.500	174	52Psi UMa	3.0040	4400.0	85	40323	No
27	GOM_TRA_1PNPDE20091116_022408_000000362084_00189_40323_3666.N1	16-NOV-2009 02:24:08	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	40323	No
28	GOM_TRA_1PNPDE20091116_023100_000000472084_00189_40323_3667.N1	16-NOV-2009 02:31:00	Bright	46.500	96	68Del Leo	2.5600	9300.0	93	40323	No
29	GOM_TRA_1PNPDE20091116_024047_000000432084_00189_40323_3668.N1	16-NOV-2009 02:40:47	Twilight	43.000	100	4Gam Crv	2.5800	13100.	86	40323	No
30	GOM_TRA_1PNPDE20091116_024218_000000512084_00189_40323_3669.N1	16-NOV-2009 02:42:18	Twilight	50.500	171	2Eps Crv	3.0010	4250.0	101	40323	No
31	GOM_TRA_1PNPDE20091116_025133_000000422084_00189_40323_3670.N1	16-NOV-2009 02:51:33	Dark	42.000	113	Mu Vel	2.6920	5000.0	84	40323	No
32	GOM_TRA_1PNPDE20091116_025825_000000402084_00190_40324_3671.N1	16-NOV-2009 02:58:25	Dark	40.000	41	Eps Car	1.8600	4100.0	80	40324	No
33	GOM_TRA_1PNPDE20091116_030020_000000562084_00190_40324_3672.N1	16-NOV-2009 03:00:20	Dark	55.500	70	Zet Pup	2.2460	39000.	111	40324	No
34	GOM_TRA_1PNPDE20091116_030355_000000472084_00190_40324_3673.N1	16-NOV-2009 03:03:55	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	40324	No
35	GOM_TRA_1PNPDE20091116_031038_000000542084_00190_40324_3674.N1	16-NOV-2009 03:10:38	Dark	54.000	108	Alp Col	2.6520	15200.	108	40324	No
36	GOM_TRA_1PNPDE20091116_031955_000000502084_00190_40324_3675.N1	16-NOV-2009 03:19:55	Straylight	49.500	165	34Gam Eri	2.9500	3200.0	99	40324	No
37	GOM_TRA_1PNPDE20091116_032529_000000472084_00190_40324_3676.N1	16-NOV-2009 03:25:29	Twilight	46.500	94	92Alp Cet	2.5260	3100.0	93	40324	No
38	GOM_TRA_1PNPDE20091116_033229_000000442084_00190_40324_3677.N1	16-NOV-2009 03:32:29	Bright	43.500	146	25Eta Tau	2.8730	15200.	87	40324	No
39	GOM_TRA_1PNPDE20091116_033507_000000462084_00190_40324_3678.N1	16-NOV-2009 03:35:07	Bright	45.500	150	44Zet Per	2.8900	28000.	91	40324	No
40	GOM_TRA_1PNPDE20091116_033637_000000432084_00190_40324_3679.N1	16-NOV-2009 03:36:37	Bright	42.500	79	26Bet Per	2.3100	13100.	85	40324	No
41	GOM_TRA_1PNPDE20091116_033928_000000392084_00190_40324_3680.N1	16-NOV-2009 03:39:28	Bright	39.000	35	33Alp Per	1.7950	6250.0	78	40324	No
42	GOM_TRA_1PNPDE20091116_035715_000000442084_00190_40324_3660.N1	16-NOV-2009 03:57:15	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	40324	No
43	GOM_TRA_1PNPDE20091116_035853_000000442084_00190_40324_3661.N1	16-NOV-2009 03:58:53	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	40324	No
44	GOM_TRA_1PNPDE20091116_040257_000000642084_00190_40324_3662.N1	16-NOV-2009 04:02:57	Bright	64.000	174	52Psi UMa	3.0040	4400.0	128	40324	No
45	GOM_TRA_1PNPDE20091116_040445_000000352084_00190_40324_3663.N1	16-NOV-2009 04:04:45	Bright	35.000	152	12Alp2CVn	2.8900	11000.	70	40324	No
46	GOM_TRA_1PNPDE20091116_041137_000000482084_00190_40324_3664.N1	16-NOV-2009 04:11:37	Bright	48.000	96	68Del Leo	2.5600	9300.0	96	40324	No
47	GOM_TRA_1PNPDE20091116_042123_000000432084_00190_40324_3665.N1	16-NOV-2009 04:21:23	Twilight	42.500	100	4Gam Crv	2.5800	13100.	85	40324	No
48	GOM_TRA_1PNPDE20091116_042255_000000512084_00190_40324_3666.N1	16-NOV-2009 04:22:55	Twilight	51.000	171	2Eps Crv	3.0010	4250.0	102	40324	No
49	GOM_TRA_1PNPDE20091116_043210_000000522084_00190_40324_3667.N1	16-NOV-2009 04:32:10	Dark	52.000	113	Mu Vel	2.6920	5000.0	104	40324	No
50	GOM_TRA_1PNPDE20091116_043902_000000362084_00191_40325_3668.N1	16-NOV-2009 04:39:02	Dark	35.500	41	Eps Car	1.8600	4100.0	71	40325	No
51	GOM_TRA_1PNPDE20091116_044057_000000572084_00191_40325_3669.N1	16-NOV-2009 04:40:57	Dark	57.000	70	Zet Pup	2.2460	39000.	114	40325	No
52	GOM_TRA_1PNPDE20091116_044432_000000612084_00191_40325_3670.N1	16-NOV-2009 04:44:32	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	40325	No
53	GOM_TRA_1PNPDE20091116_045114_000000542084_00191_40325_3671.N1	16-NOV-2009 04:51:14	Dark	53.500	108	Alp Col	2.6520	15200.	107	40325	No
54	GOM_TRA_1PNPDE20091116_050031_000000522084_00191_40325_3672.N1	16-NOV-2009 05:00:31	Straylight	52.000	165	34Gam Eri	2.9500	3200.0	104	40325	No
55	GOM_TRA_1PNPDE20091116_050605_000000472084_00191_40325_3673.N1	16-NOV-2009 05:06:05	Twilight	47.000	94	92Alp Cet	2.5260	3100.0	94	40325	No
56	GOM_TRA_1PNPDE20091116_051304_000000442084_00191_40325_3674.N1	16-NOV-2009 05:13:04	Bright	43.500	146	25Eta Tau	2.8730	15200.	87	40325	No
57	GOM_TRA_1PNPDE20091116_051543_000000442084_00191_40325_3675.N1	16-NOV-2009 05:15:43	Bright	43.500	150	44Zet Per	2.8900	28000.	87	40325	No
58	GOM_TRA_1PNPDE20091116_051712_000000402084_00191_40325_3676.N1	16-NOV-2009 05:17:12	Bright	40.000	79	26Bet Per	2.3100	13100.	80	40325	No
59	GOM_TRA_1PNPDE20091116_052004_000000412084_00191_40325_3677.N1	16-NOV-2009 05:20:04	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40325	No
60	GOM_TRA_1PNPDE20091116_053750_000000392084_00191_40325_3655.N1	16-NOV-2009 05:37:50	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	40325	No
61	GOM_TRA_1PNPDE20091116_053929_000000532084_00191_40325_3656.N1	16-NOV-2009 05:39:29	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	40325	No
62	GOM_TRA_1PNPDE20091116_054333_000000642084_00191_40325_3657.N1	16-NOV-2009 05:43:33	Bright	64.000	174	52Psi UMa	3.0040	4400.0	128	40325	No
63	GOM_TRA_1PNPDE20091116_054521_000000402084_00191_40325_3658.N1	16-NOV-2009 05:45:21	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	40325	No
64	GOM_TRA_1PNPDE20091116_055213_000000502084_00191_40325_3659.N1	16-NOV-2009 05:52:13	Bright	50.000	96	68Del Leo	2.5600	9300.0	100	40325	No
65	GOM_TRA_1PNPDE20091116_060200_000000432084_00191_40325_3660.N1	16-NOV-2009 06:02:00	Twilight	42.500	100	4Gam Crv	2.5800	13100.	85	40325	No
66	GOM_TRA_1PNPDE20091116_060331_000000442084_00191_40325_3661.N1	16-NOV-2009 06:03:31	Twilight	44.000	171	2Eps Crv	3.0010	4250.0	88	40325	No
67	GOM_TRA_1PNPDE20091116_061247_000000442084_00191_40325_3662.N1	16-NOV-2009 06:12:47	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	40325	No
68	GOM_TRA_1PNPDE20091116_061939_000000582084_00192_40326_3663.N1	16-NOV-2009 06:19:39	Dark	57.500	41	Eps Car	1.8600	4100.0	115	40326	No

69	GOM_TRA_1PNPDE20091116_062134_000000552084_00192_40326_3664.N1	16-NOV-2009 06:21:34	Dark	54.500	70	Zet Pup	2.2460	39000.	109	40326	No
70	GOM_TRA_1PNPDE20091116_062509_000000442084_00192_40326_3665.N1	16-NOV-2009 06:25:09	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	40326	No
71	GOM_TRA_1PNPDE20091116_063151_000000522084_00192_40326_3666.N1	16-NOV-2009 06:31:51	Dark	51.500	108	Alp Col	2.6520	15200.	103	40326	No
72	GOM_TRA_1PNPDE20091116_064107_000000522084_00192_40326_3667.N1	16-NOV-2009 06:41:07	Straylight	51.500	165	34Gam Eri	2.9500	3200.0	103	40326	No
73	GOM_TRA_1PNPDE20091116_064641_000000482084_00192_40326_3668.N1	16-NOV-2009 06:46:41	Twilight	47.500	94	92Alp Cet	2.5260	3100.0	95	40326	No
74	GOM_TRA_1PNPDE20091116_065340_000000442084_00192_40326_3669.N1	16-NOV-2009 06:53:40	Bright	44.000	146	25Eta Tau	2.8730	15200.	88	40326	No
75	GOM_TRA_1PNPDE20091116_065618_000000452084_00192_40326_3670.N1	16-NOV-2009 06:56:18	Bright	44.500	150	44Zet Per	2.8900	28000.	89	40326	No
76	GOM_TRA_1PNPDE20091116_065748_000000402084_00192_40326_3671.N1	16-NOV-2009 06:57:48	Bright	40.000	79	26Bet Per	2.3100	13100.	80	40326	No
77	GOM_TRA_1PNPDE20091116_070039_000000382084_00192_40326_3672.N1	16-NOV-2009 07:00:39	Bright	38.000	35	33Alp Per	1.7950	6250.0	76	40326	No
78	GOM_TRA_1PNPDE20091116_195643_000000552084_00200_40334_3721.N1	16-NOV-2009 19:56:43	Dark	54.500	108	Alp Col	2.6520	15200.	109	40334	No
79	GOM_TRA_1PNPDE20091116_200555_000000492084_00200_40334_3722.N1	16-NOV-2009 20:05:55	Straylight	49.000	165	34Gam Eri	2.9500	3200.0	98	40334	No
80	GOM_TRA_1PNPDE20091116_201128_000000502084_00200_40334_3723.N1	16-NOV-2009 20:11:28	Twilight	49.500	94	92Alp Cet	2.5260	3100.0	99	40334	No
81	GOM_TRA_1PNPDE20091116_201823_000000432084_00200_40334_3724.N1	16-NOV-2009 20:18:23	Bright	43.000	146	25Eta Tau	2.8730	15200.	86	40334	No
82	GOM_TRA_1PNPDE20091116_202101_000000452084_00200_40334_3725.N1	16-NOV-2009 20:21:01	Bright	44.500	150	44Zet Per	2.8900	28000.	89	40334	No
83	GOM_TRA_1PNPDE20091116_202233_000000392084_00200_40334_3726.N1	16-NOV-2009 20:22:33	Bright	38.500	79	26Bet Per	2.3100	13100.	77	40334	No
84	GOM_TRA_1PNPDE20091116_202524_000000402084_00200_40334_3727.N1	16-NOV-2009 20:25:24	Bright	40.000	35	33Alp Per	1.7950	6250.0	80	40334	No
85	GOM_TRA_1PNPDE20091116_204312_000000462084_00200_40334_3728.N1	16-NOV-2009 20:43:12	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	40334	No
86	GOM_TRA_1PNPDE20091116_204450_000000422084_00200_40334_3729.N1	16-NOV-2009 20:44:50	Bright	42.000	82	48Bet UMa	2.3650	10600.	84	40334	No
87	GOM_TRA_1PNPDE20091116_204855_000000452084_00200_40334_3730.N1	16-NOV-2009 20:48:55	Bright	44.500	174	52Psi UMa	3.0040	4400.0	89	40334	No
88	GOM_TRA_1PNPDE20091116_205045_000000512084_00200_40334_3731.N1	16-NOV-2009 20:50:45	Bright	51.000	152	12Alp2CVn	2.8900	11000.	102	40334	No
89	GOM_TRA_1PNPDE20091116_205851_000000592084_00200_40334_3732.N1	16-NOV-2009 20:58:51	Bright	58.500	62	94Bet Leo	2.1360	9700.0	117	40334	No
90	GOM_TRA_1PNPDE20091116_210727_000000432084_00200_40334_3727.N1	16-NOV-2009 21:07:27	Twilight	42.500	100	4Gam Crv	2.5800	13100.	85	40334	No
91	GOM_TRA_1PNPDE20091116_210859_000000462084_00200_40334_3728.N1	16-NOV-2009 21:08:59	Twilight	46.000	171	2Eps Crv	3.0010	4250.0	92	40334	No
92	GOM_TRA_1PNPDE20091116_211815_000000442084_00200_40334_3729.N1	16-NOV-2009 21:18:15	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	40334	No
93	GOM_TRA_1PNPDE20091116_212507_000000432084_00201_40335_3730.N1	16-NOV-2009 21:25:07	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40335	No
94	GOM_TRA_1PNPDE20091116_212709_000000542084_00201_40335_3731.N1	16-NOV-2009 21:27:09	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40335	No
95	GOM_TRA_1PNPDE20091116_213038_000000612084_00201_40335_3732.N1	16-NOV-2009 21:30:38	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	40335	No
96	GOM_TRA_1PNPDE20091116_213720_000000522084_00201_40335_3733.N1	16-NOV-2009 21:37:20	Dark	51.500	108	Alp Col	2.6520	15200.	103	40335	No
97	GOM_TRA_1PNPDE20091116_214631_000000522084_00201_40335_3734.N1	16-NOV-2009 21:46:31	Straylight	51.500	165	34Gam Eri	2.9500	3200.0	103	40335	No
98	GOM_TRA_1PNPDE20091116_215204_000000472084_00201_40335_3735.N1	16-NOV-2009 21:52:04	Twilight	46.500	94	92Alp Cet	2.5260	3100.0	93	40335	No
99	GOM_TRA_1PNPDE20091116_215859_000000432084_00201_40335_3736.N1	16-NOV-2009 21:58:59	Bright	43.000	146	25Eta Tau	2.8730	15200.	86	40335	No
100	GOM_TRA_1PNPDE20091116_220136_000000432084_00201_40335_3737.N1	16-NOV-2009 22:01:36	Bright	42.500	150	44Zet Per	2.8900	28000.	85	40335	No
101	GOM_TRA_1PNPDE20091116_220309_000000392084_00201_40335_3738.N1	16-NOV-2009 22:03:09	Bright	38.500	79	26Bet Per	2.3100	13100.	77	40335	No
102	GOM_TRA_1PNPDE20091116_220559_000000432084_00201_40335_3739.N1	16-NOV-2009 22:05:59	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	40335	No
103	GOM_TRA_1PNPDE20091116_222347_000000472084_00201_40335_3740.N1	16-NOV-2009 22:23:47	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	40335	No
104	GOM_TRA_1PNPDE20091116_222526_000000452084_00201_40335_3741.N1	16-NOV-2009 22:25:26	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	40335	No
105	GOM_TRA_1PNPDE20091116_222931_000000642084_00201_40335_3742.N1	16-NOV-2009 22:29:31	Bright	63.500	174	52Psi UMa	3.0040	4400.0	127	40335	No
106	GOM_TRA_1PNPDE20091116_223121_000000352084_00201_40335_3743.N1	16-NOV-2009 22:31:21	Bright	35.000	152	12Alp2CVn	2.8900	11000.	70	40335	No
107	GOM_TRA_1PNPDE20091116_223927_000000622084_00201_40335_3744.N1	16-NOV-2009 22:39:27	Bright	62.000	62	94Bet Leo	2.1360	9700.0	124	40335	No
108	GOM_TRA_1PNPDE20091116_224804_000000402084_00201_40335_3733.N1	16-NOV-2009 22:48:04	Twilight	40.000	100	4Gam Crv	2.5800	13100.	80	40335	No
109	GOM_TRA_1PNPDE20091116_224935_000000512084_00201_40335_3734.N1	16-NOV-2009 22:49:35	Twilight	51.000	171	2Eps Crv	3.0010	4250.0	102	40335	No
110	GOM_TRA_1PNPDE20091116_225852_000000452084_00201_40335_3735.N1	16-NOV-2009 22:58:52	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	40335	No
111	GOM_TRA_1PNPDE20091116_230544_000000492084_00202_40336_3736.N1	16-NOV-2009 23:05:44	Dark	48.500	41	Eps Car	1.8600	4100.0	97	40336	No
112	GOM_TRA_1PNPDE20091116_230746_000000562084_00202_40336_3737.N1	16-NOV-2009 23:07:46	Dark	55.500	70	Zet Pup	2.2460	39000.	111	40336	No
113	GOM_TRA_1PNPDE20091116_231114_000000572084_00202_40336_3738.N1	16-NOV-2009 23:11:14	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	40336	No
114	GOM_TRA_1PNPDE20091116_231756_000000542084_00202_40336_3739.N1	16-NOV-2009 23:17:56	Dark	53.500	108	Alp Col	2.6520	15200.	107	40336	No
115	GOM_TRA_1PNPDE20091116_232707_000000512084_00202_40336_3740.N1	16-NOV-2009 23:27:07	Straylight	50.500	165	34Gam Eri	2.9500	3200.0	101	40336	No
116	GOM_TRA_1PNPDE20091116_233240_000000472084_00202_40336_3741.N1	16-NOV-2009 23:32:40	Twilight	47.000	94	92Alp Cet	2.5260	3100.0	94	40336	No
117	GOM_TRA_1PNPDE20091116_233934_000000432084_00202_40336_3742.N1	16-NOV-2009 23:39:34	Bright	42.500	146	25Eta Tau	2.8730	15200.	85	40336	No
118	GOM_TRA_1PNPDE20091116_234212_000000442084_00202_40336_3743.N1	16-NOV-2009 23:42:12	Bright	44.000	150	44Zet Per	2.8900	28000.	88	40336	No
119	GOM_TRA_1PNPDE20091116_234344_000000392084_00202_40336_3744.N1	16-NOV-2009 23:43:44	Bright	38.500	79	26Bet Per	2.3100	13100.	77	40336	No
120	GOM_TRA_1PNPDE20091116_234635_000000412084_00202_40336_3745.N1	16-NOV-2009 23:46:35	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40336	No

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





#### 4. Overview of dark signal processing per product

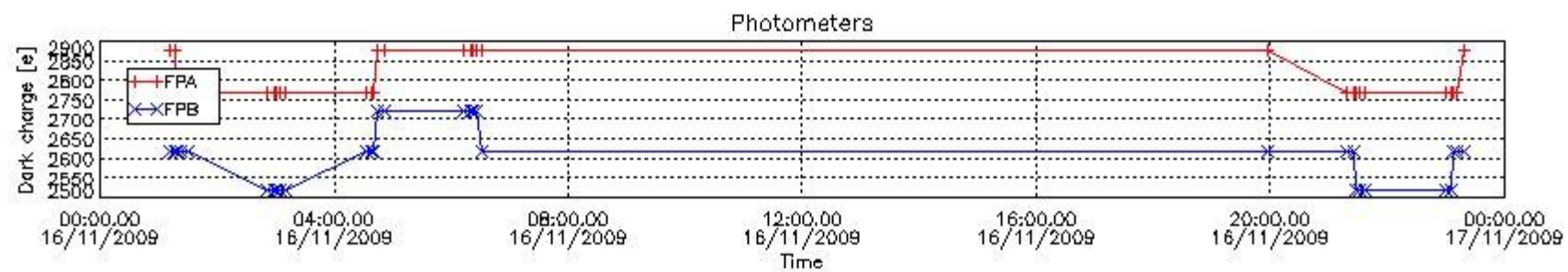
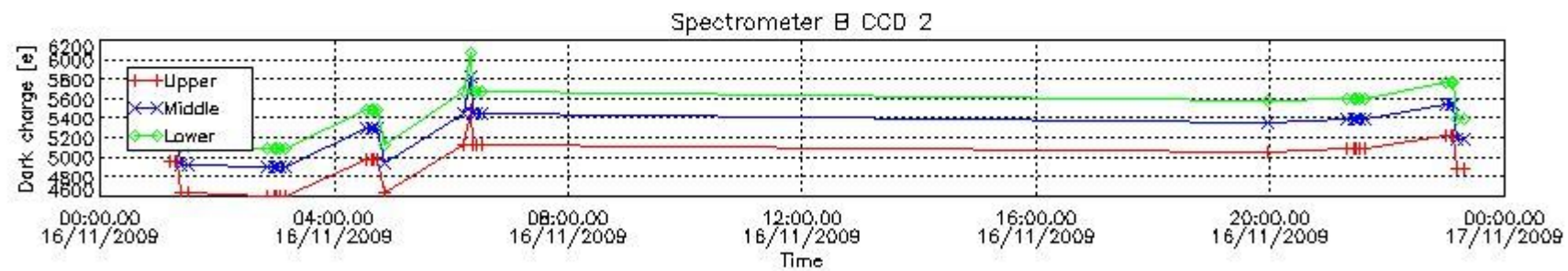
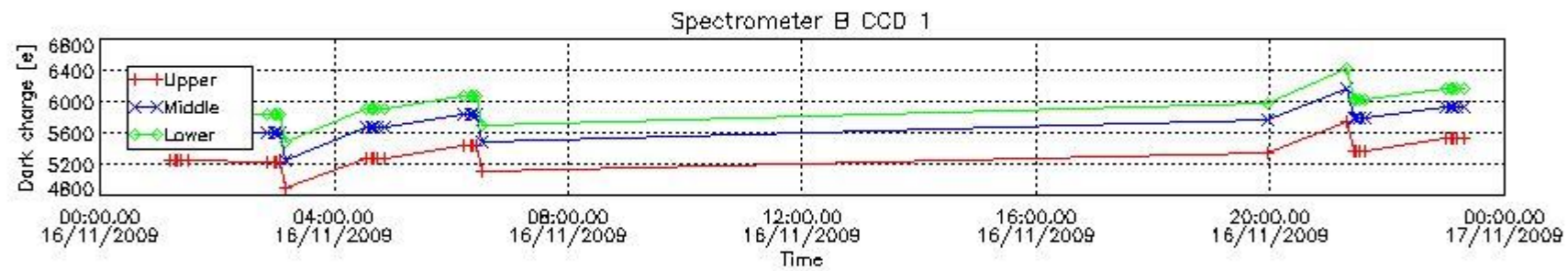
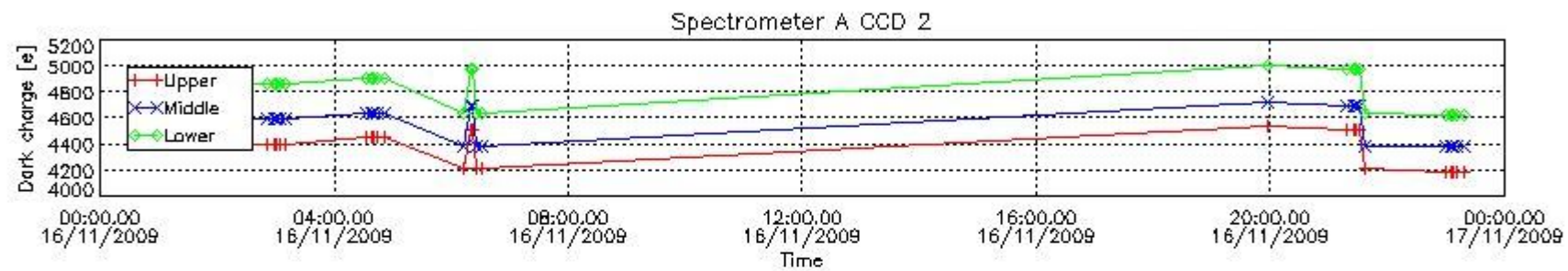
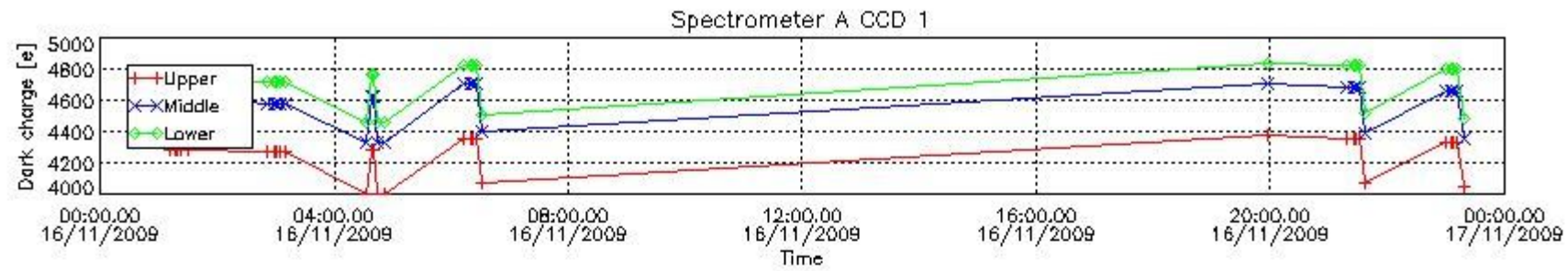
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091116_195643_000000552084_00200_40334_3721.N1	DC map used
GOM_TRA_1PNPDE20091116_200555_000000492084_00200_40334_3722.N1	DC map used
GOM_TRA_1PNPDE20091116_201128_000000502084_00200_40334_3723.N1	DC map used
GOM_TRA_1PNPDE20091116_201823_000000432084_00200_40334_3724.N1	DC map used
GOM_TRA_1PNPDE20091116_202101_000000452084_00200_40334_3725.N1	DC map used
GOM_TRA_1PNPDE20091116_202233_000000392084_00200_40334_3726.N1	DC map used
GOM_TRA_1PNPDE20091116_202524_000000402084_00200_40334_3727.N1	DC map used
GOM_TRA_1PNPDE20091116_204312_000000462084_00200_40334_3728.N1	DC map used
GOM_TRA_1PNPDE20091116_204450_000000422084_00200_40334_3729.N1	DC map used
GOM_TRA_1PNPDE20091116_204855_000000452084_00200_40334_3730.N1	DC map used
GOM_TRA_1PNPDE20091116_205045_000000512084_00200_40334_3731.N1	DC map used
GOM_TRA_1PNPDE20091116_205851_000000592084_00200_40334_3732.N1	DC map used

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



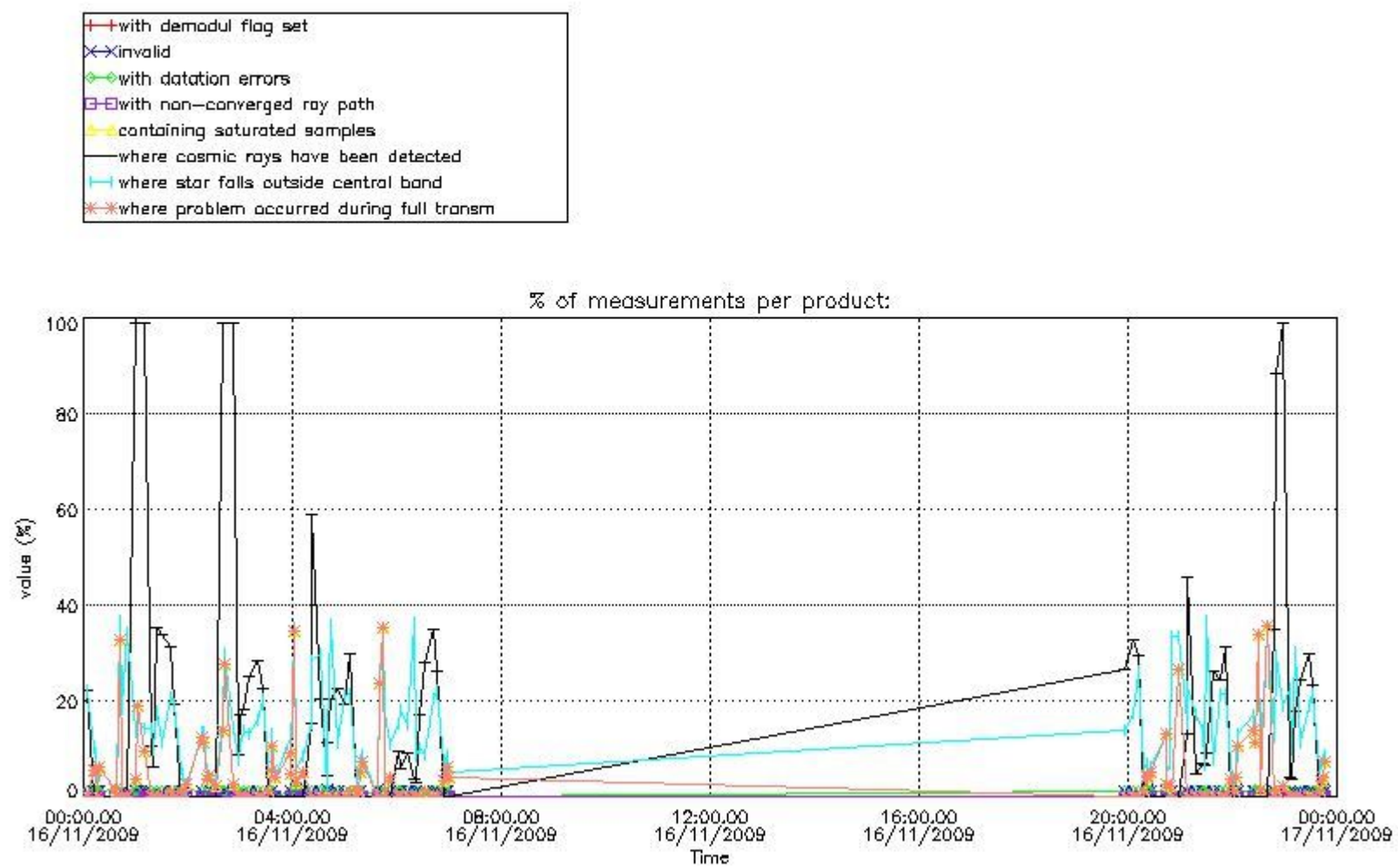
## 5. Demodulation flag and quality information monitoring

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:

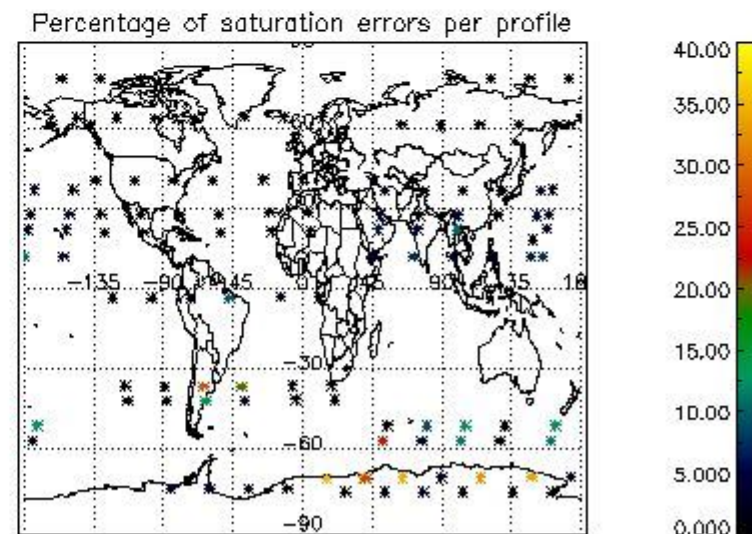
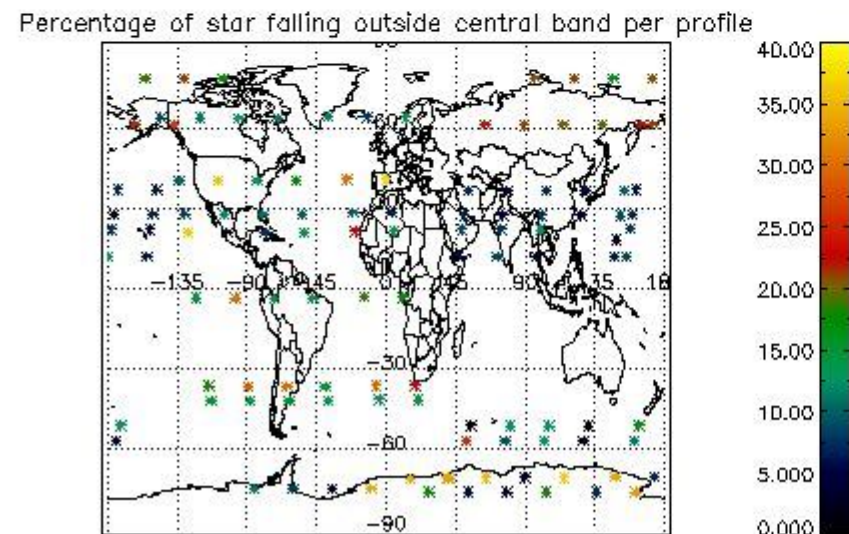
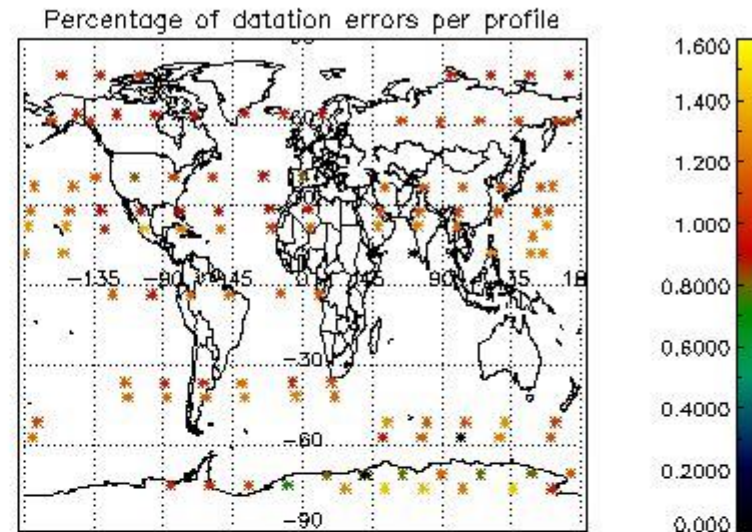
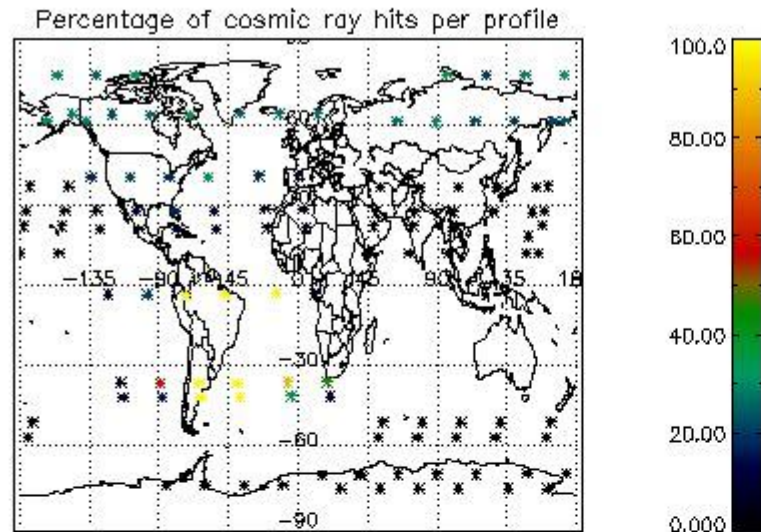
At least one measurement with demodulation flag set:	42.5000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 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)

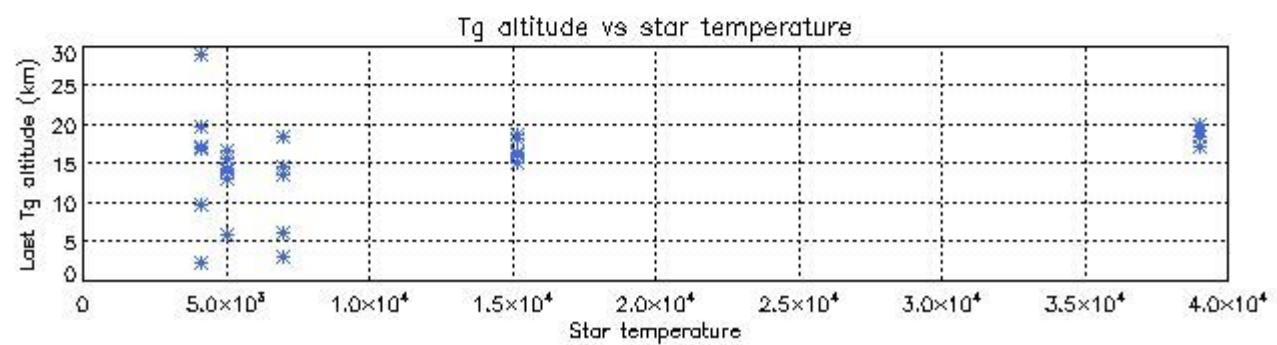
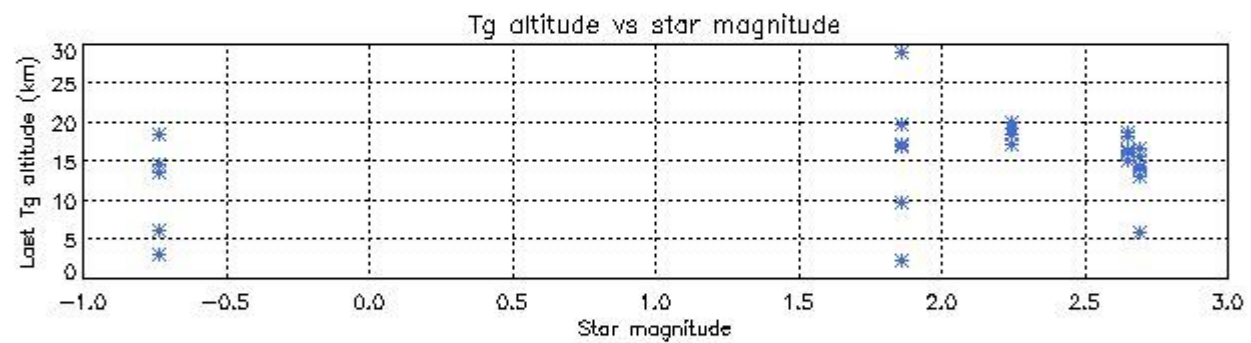
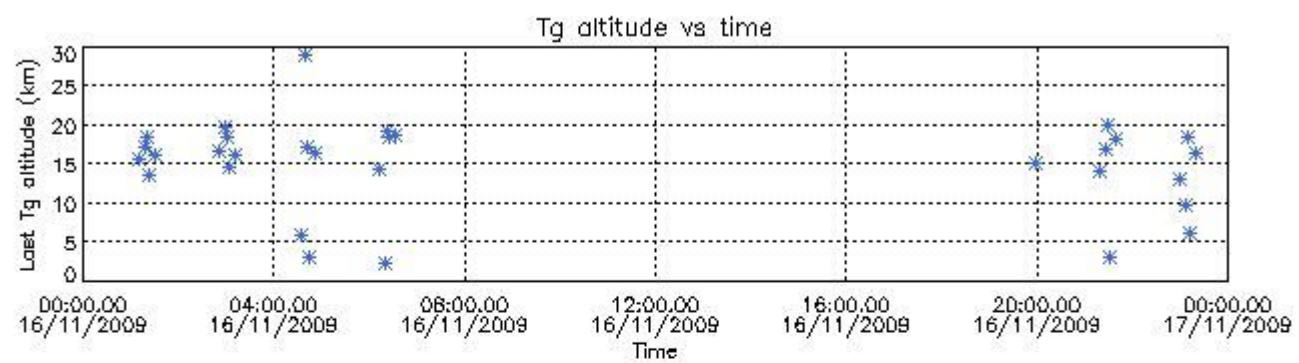
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.929	18.395	9.6445
St. deviation:	5.7824	6.2186	3.1478
Maximum:	29.039	25.574	14.026
Minimum:	2.3305	3.9992	6.4439
Number of data:	31.000	61.000	6.0000

### 6.2 Plot for DARK limb products

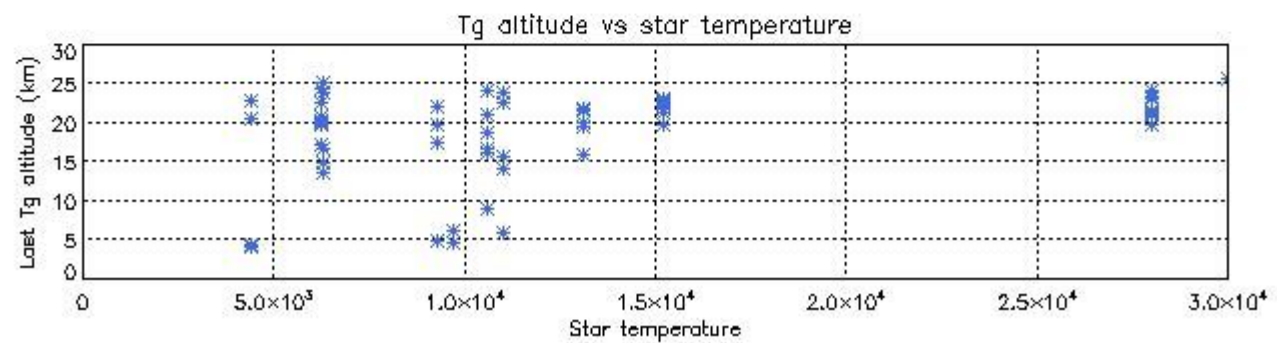
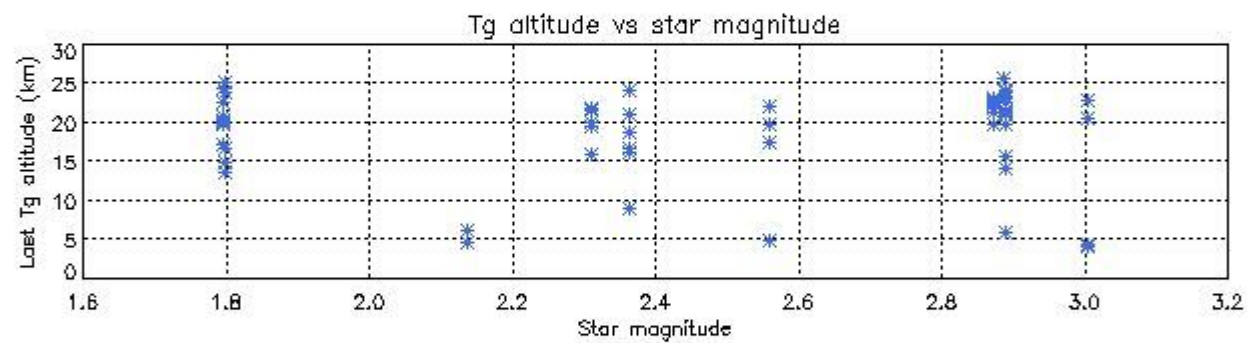
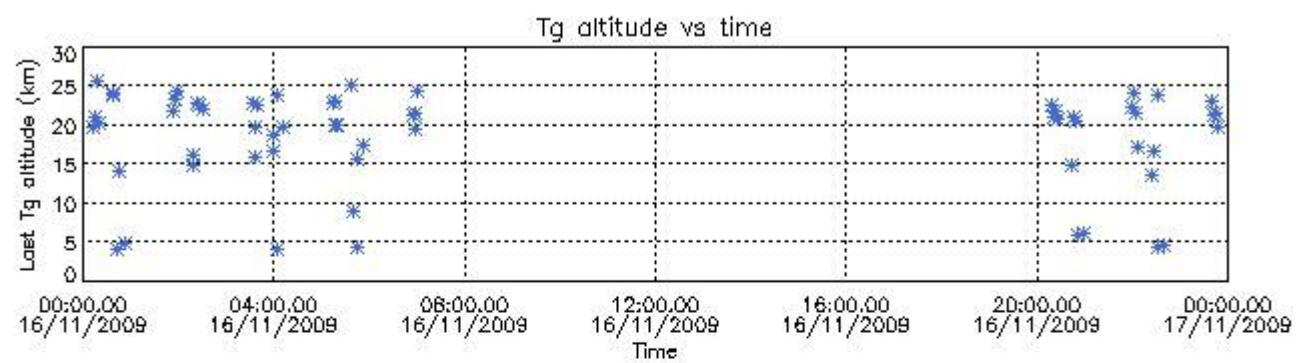


Tangent altitude at which the star is lost



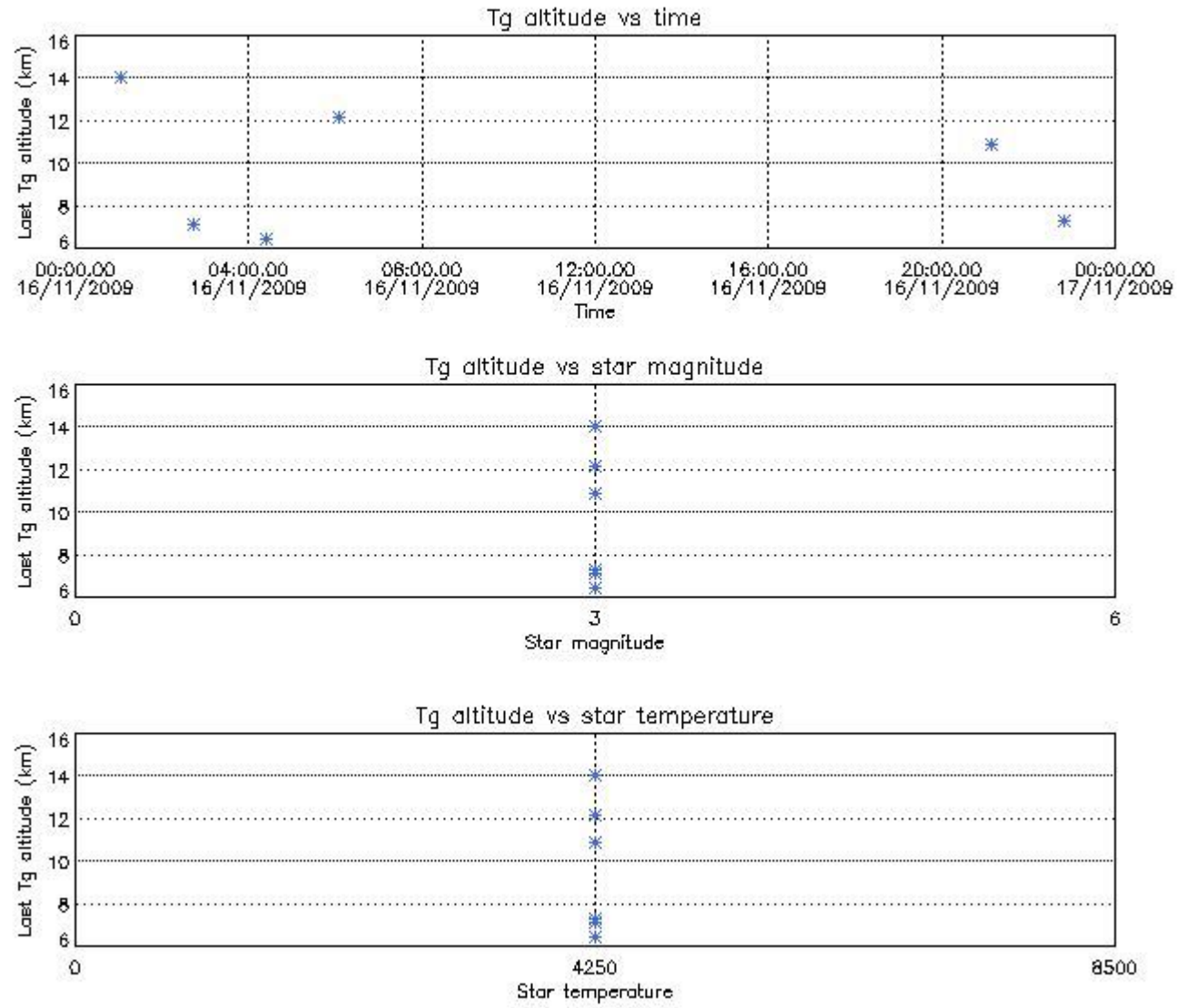
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost



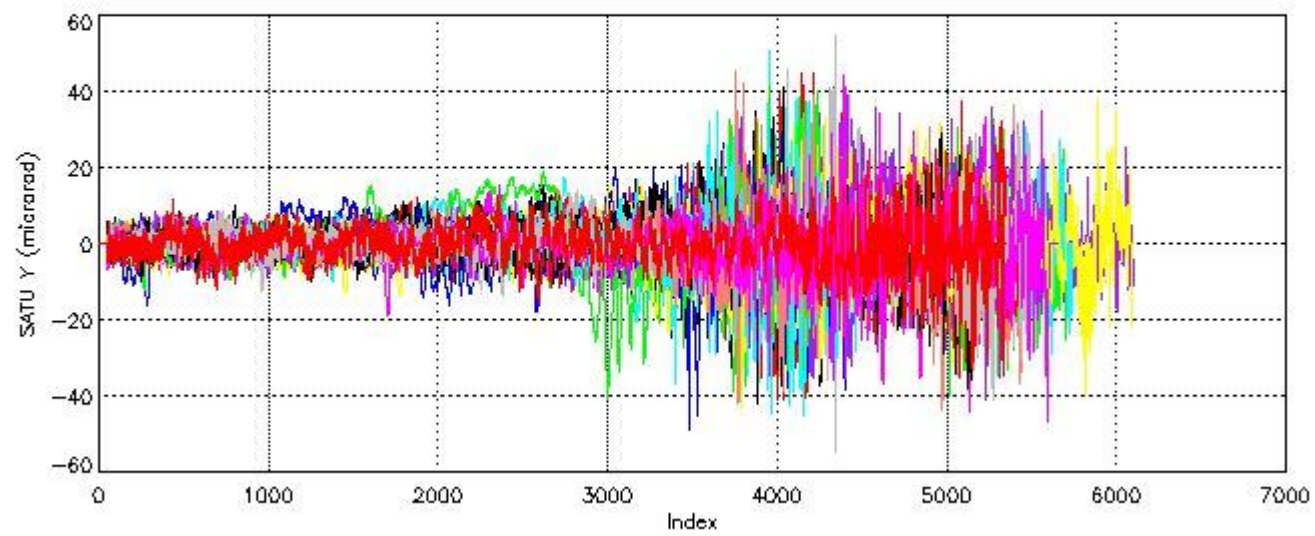
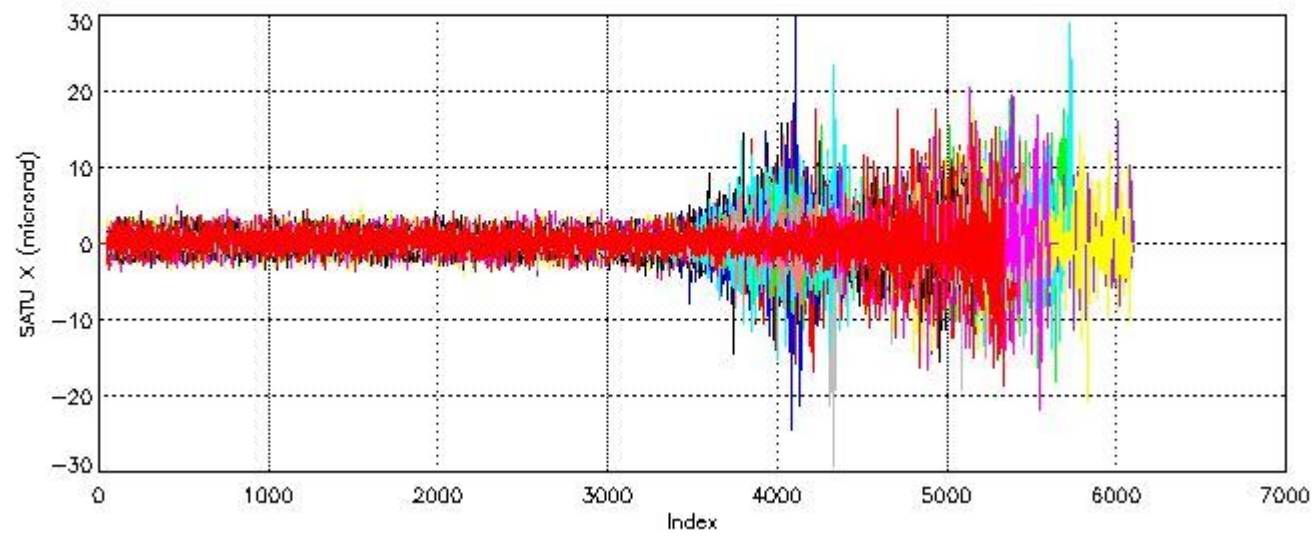
## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.





## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.24442	-0.039441	0.19403	-0.15345
St. deviation:	0.61690	2.4975	1.0846	2.7325
Maximum:	4.9000	11.400	7.4000	13.400
Minimum:	-3.7000	-16.100	-7.5000	-13.600

Number of data:	33300.	33300.	60450.	60450.
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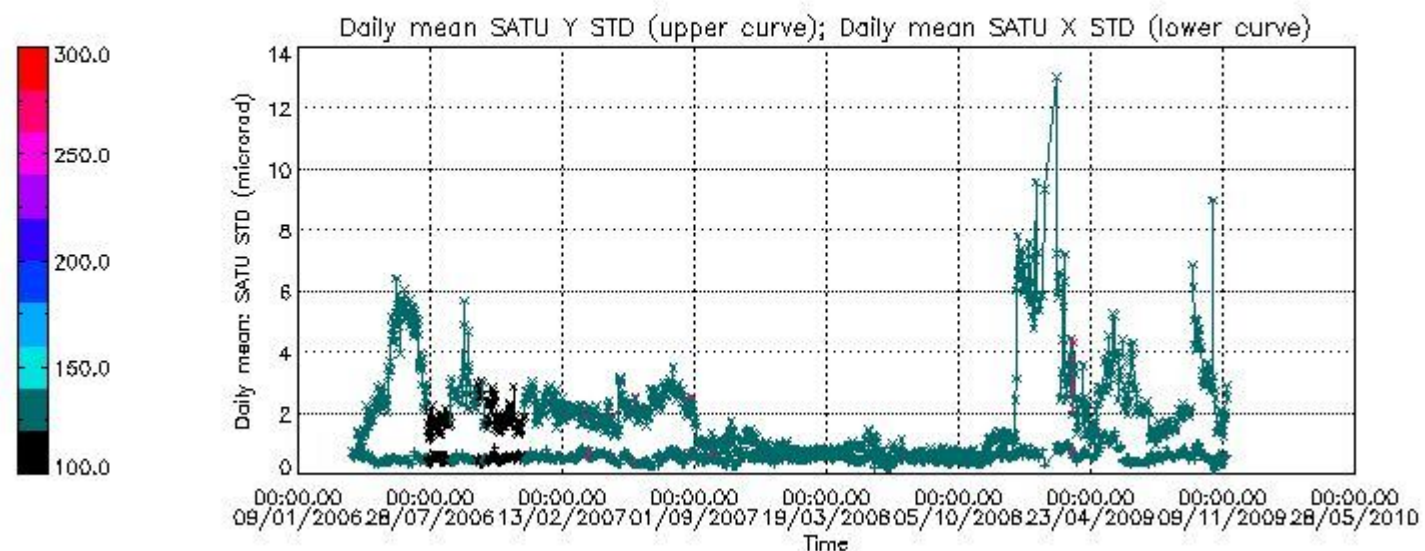
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

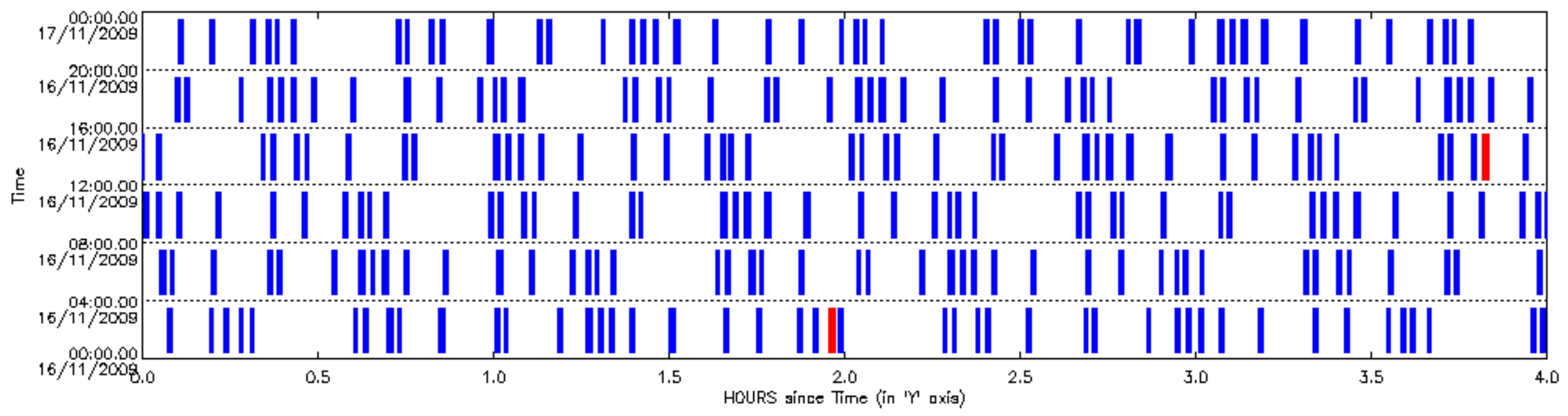
Lower curve: STD of SATU X axis



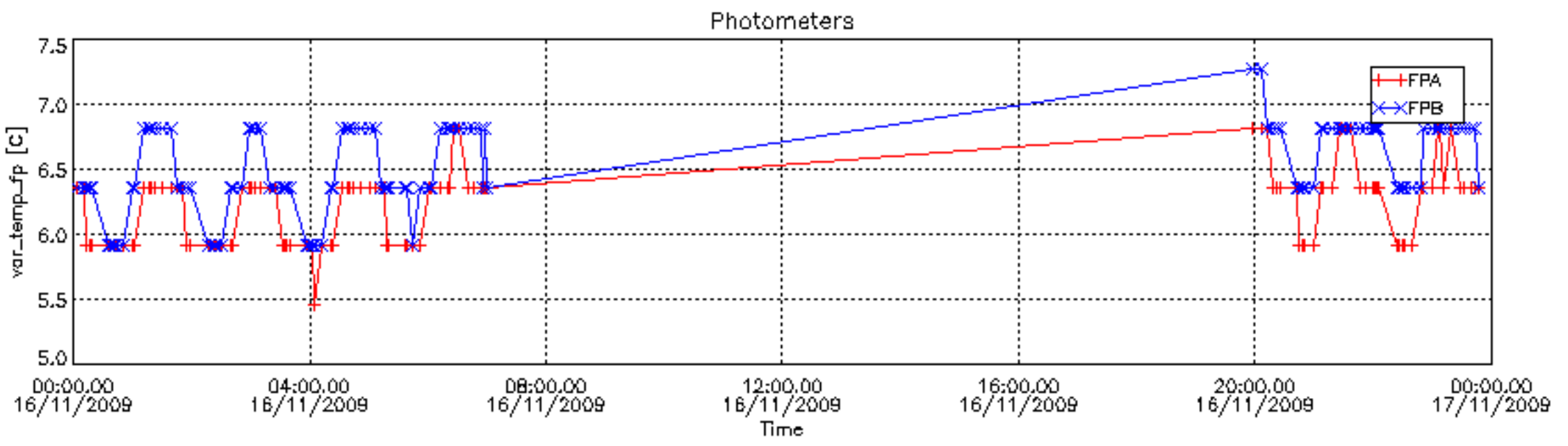
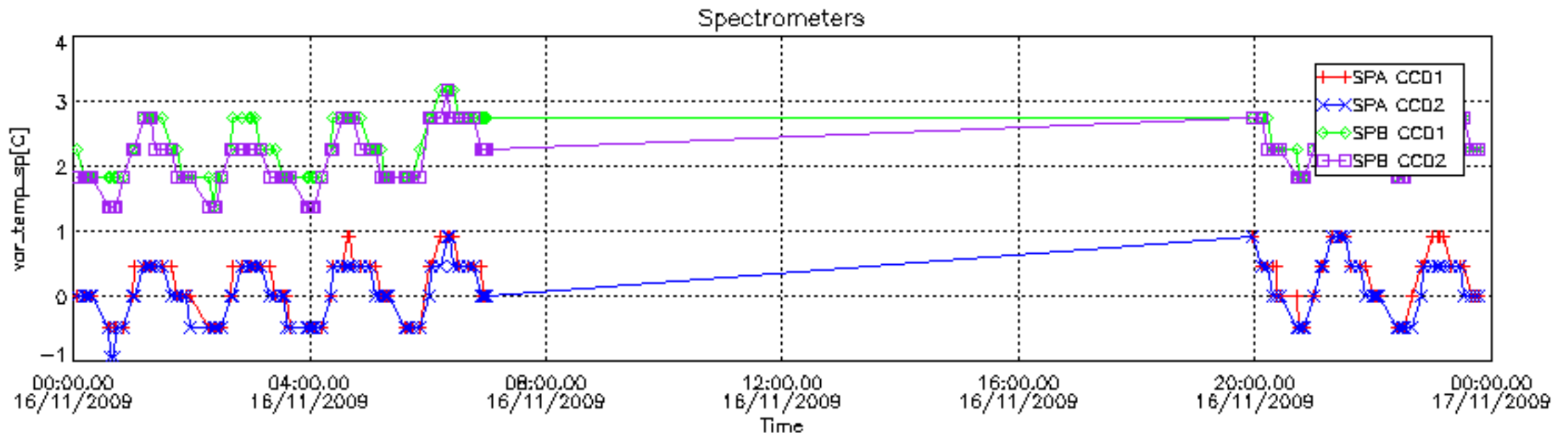
### 8. Auxiliary Data Files used for the production reported in section 2.4

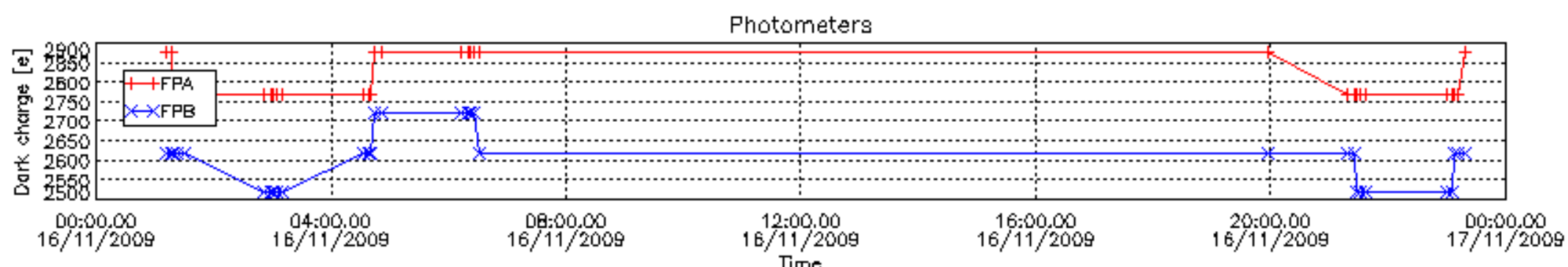
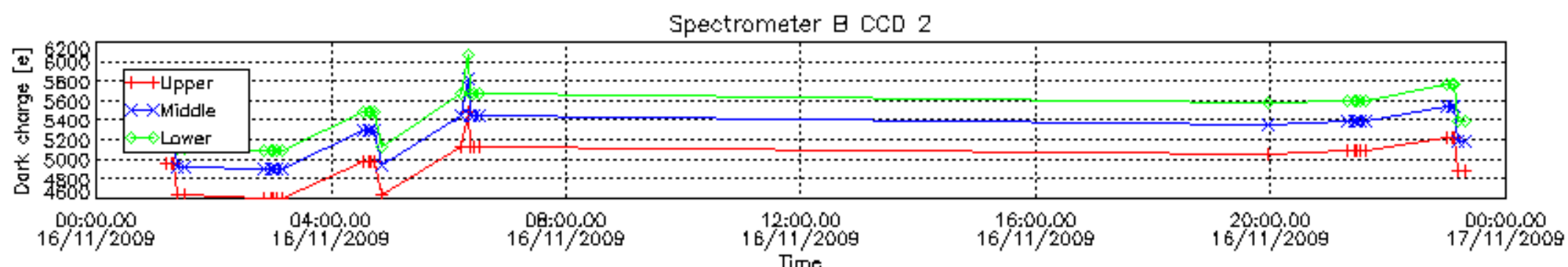
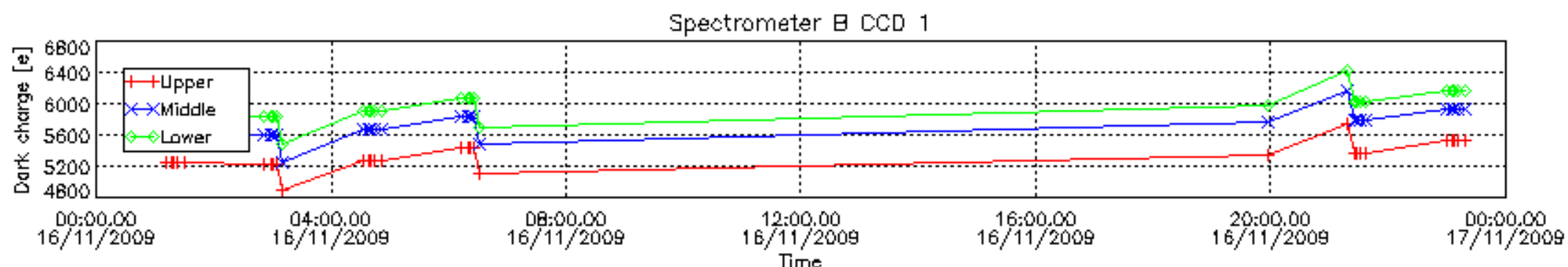
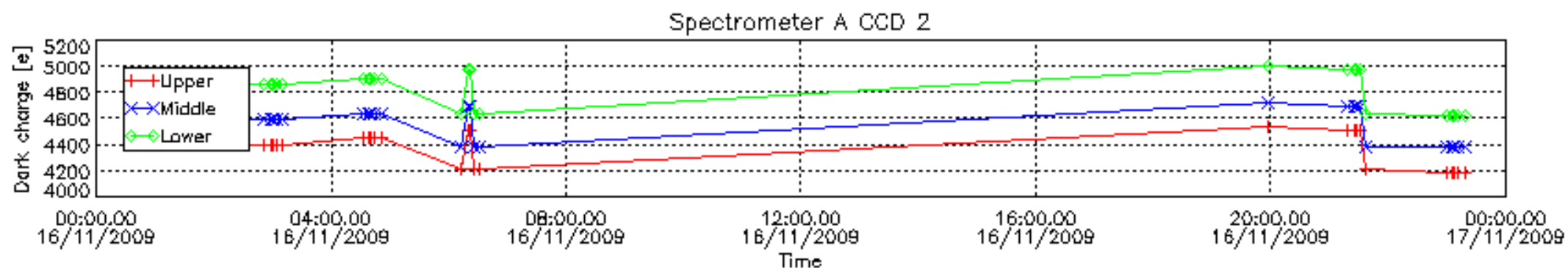
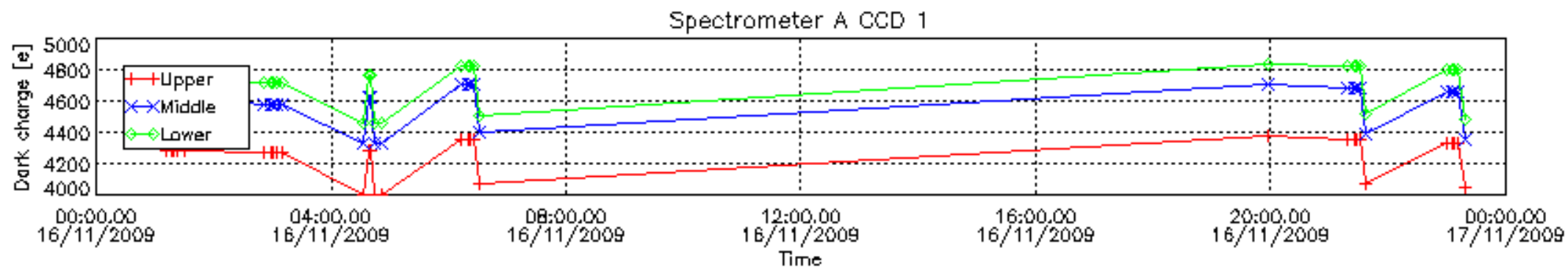
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

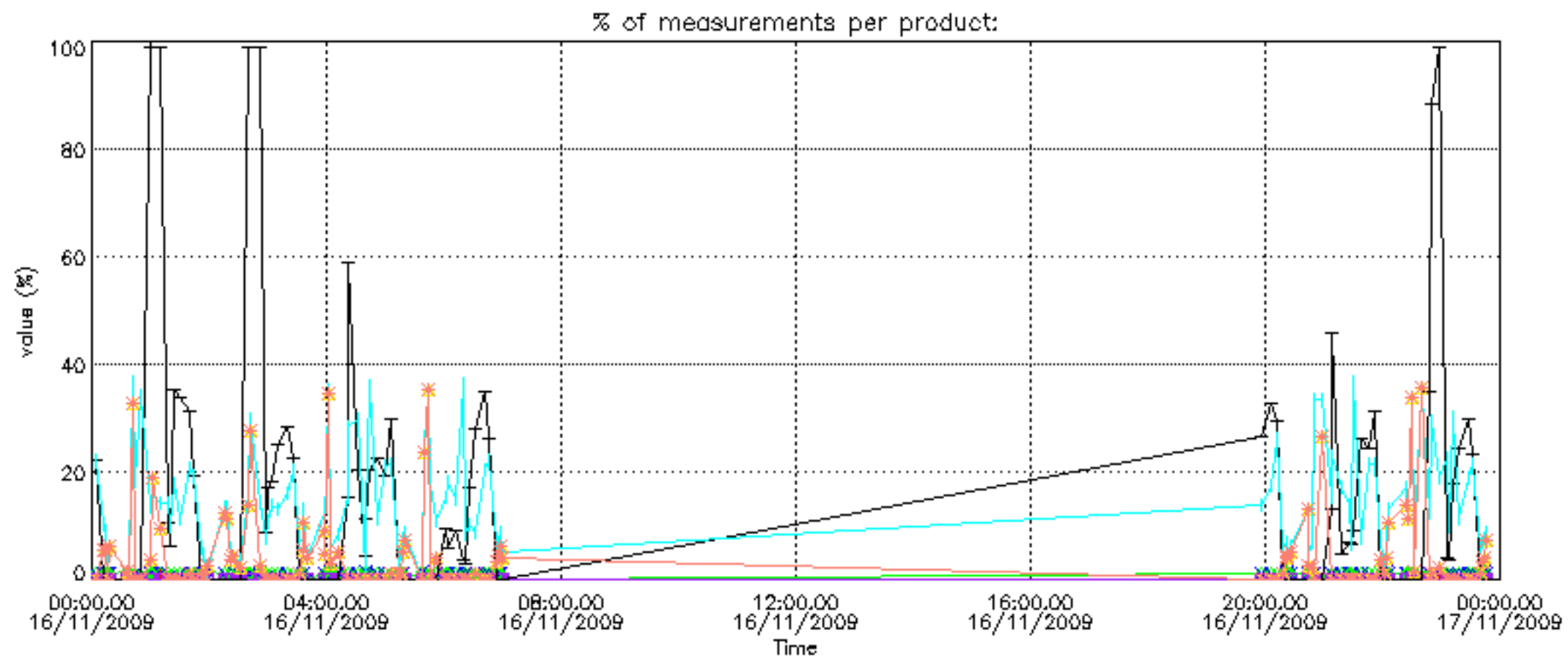
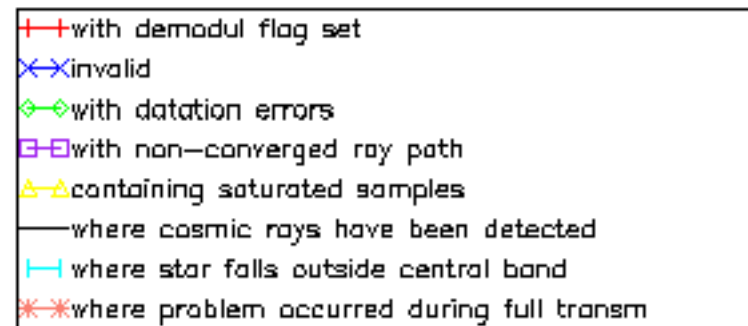
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-NOV-2009 00:04:18
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091106_091155_20091104_000000_20100101_000000	1	16-NOV-2009 00:04:18
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091116_112409_20091114_000000_20100101_000000	78	16-NOV-2009 19:56:43
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	16-NOV-2009 00:04:18
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-NOV-2009 00:04:18
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	16-NOV-2009 00:04:18
ECMWF_FILE	AUX_ECA_AXNECM20091116_062111_20091115_210000_20091116_090000	1	16-NOV-2009 00:04:18
ECMWF_FILE	AUX_ECA_AXNECM20091116_182111_20091116_090000_20091116_210000	78	16-NOV-2009 19:56:43
ECMWF_FILE	AUX_ECF_AXNECM20091116_064111_20091116_210000_20091117_090000	90	16-NOV-2009 21:07:27
OPTIONAL_ECMWF_FILE	MISSING	1	16-NOV-2009 00:04:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091115_231450_000057382084_00187_40321_9174.N1	1	16-NOV-2009 00:04:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091116_005547_000044632084_00188_40322_9175.N1	12	16-NOV-2009 01:00:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091116_021529_000054192084_00189_40323_9176.N1	26	16-NOV-2009 02:22:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091116_035107_000057382084_00190_40324_9177.N1	42	16-NOV-2009 03:57:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091116_053204_000057382084_00191_40325_9178.N1	60	16-NOV-2009 05:37:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091116_195248_000035072084_00200_40334_9179.N1	78	16-NOV-2009 19:56:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091116_205634_000060572084_00200_40334_9180.N1	90	16-NOV-2009 21:07:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091116_224249_000057382084_00201_40335_9181.N1	108	16-NOV-2009 22:48:04





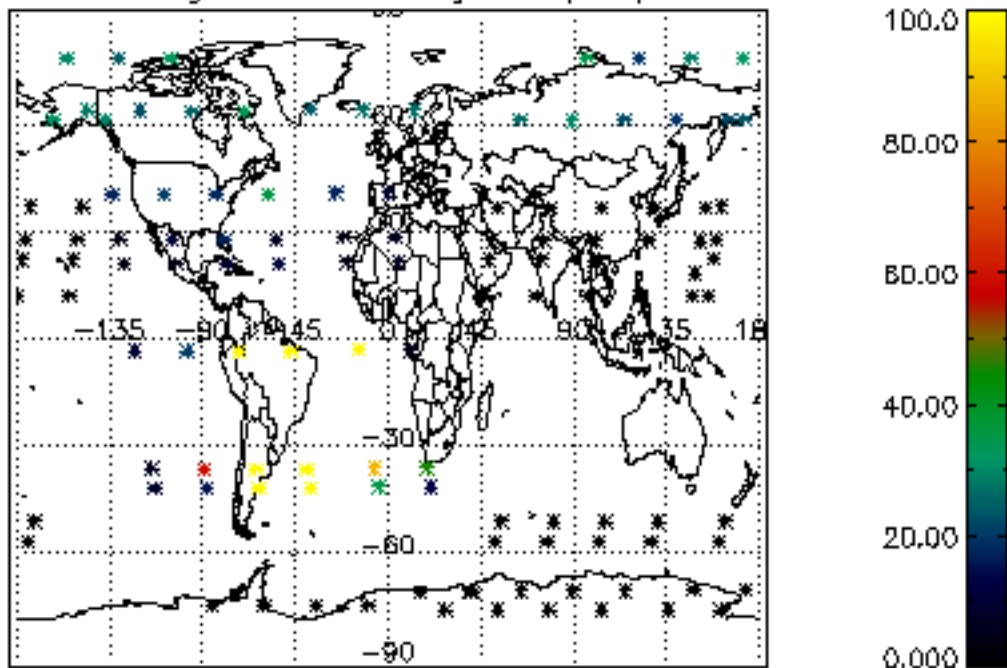




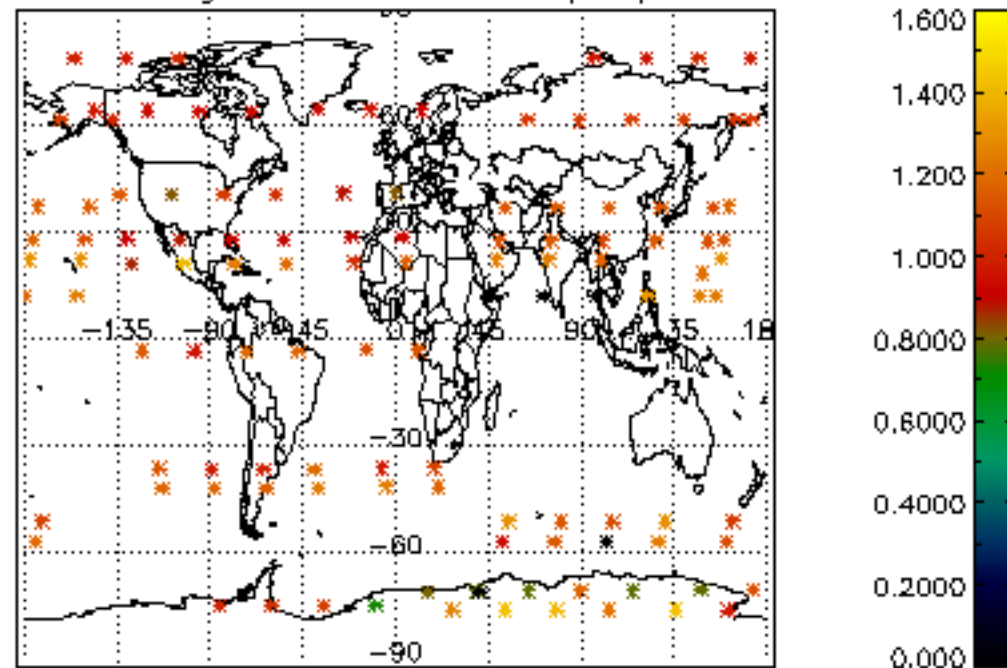




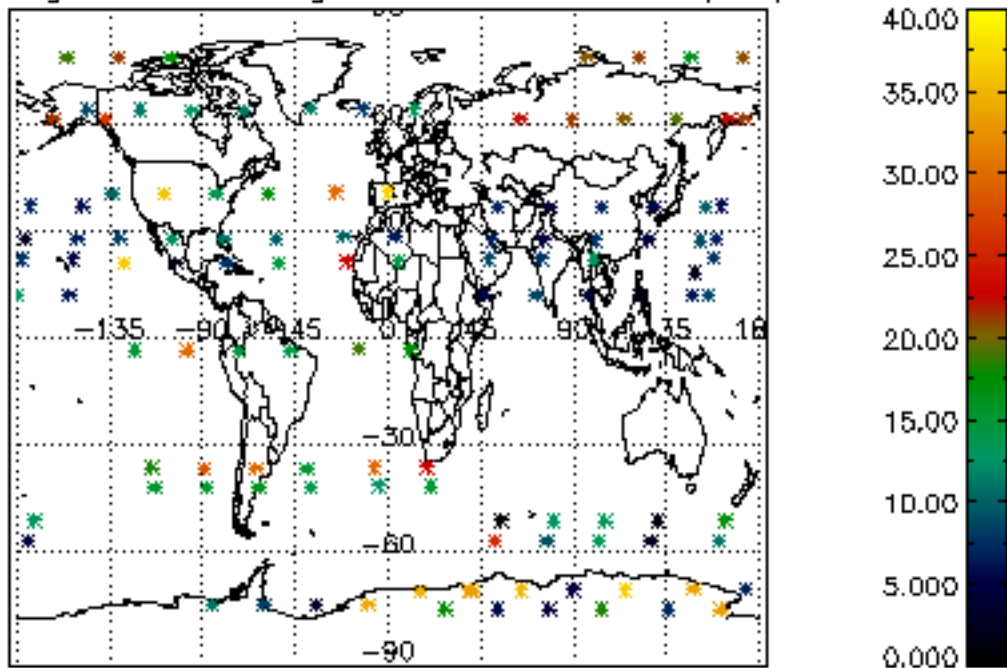
Percentage of cosmic ray hits per profile



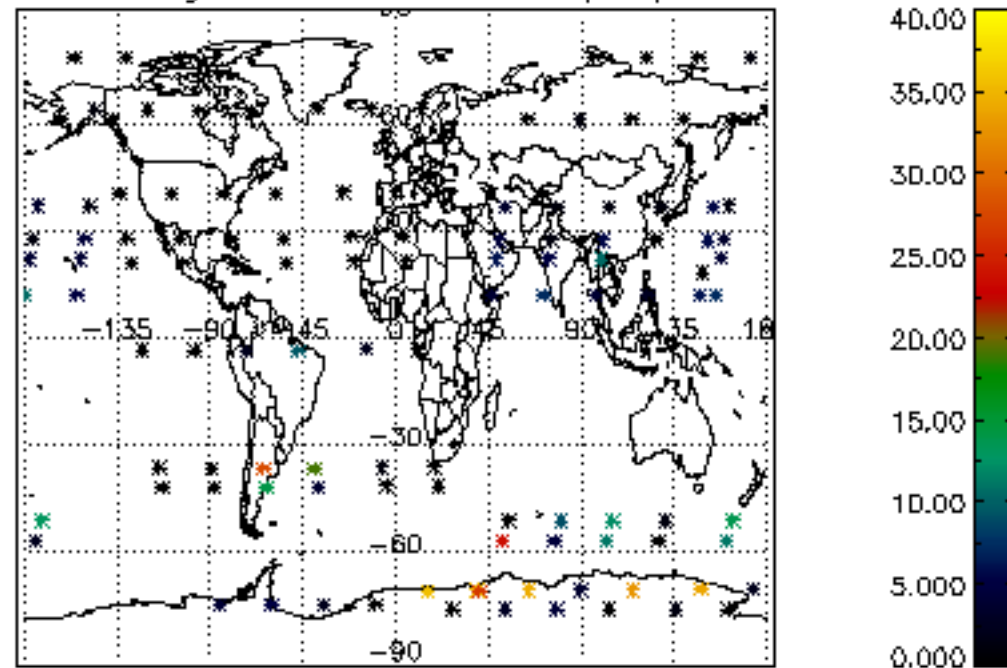
Percentage of datation errors per profile



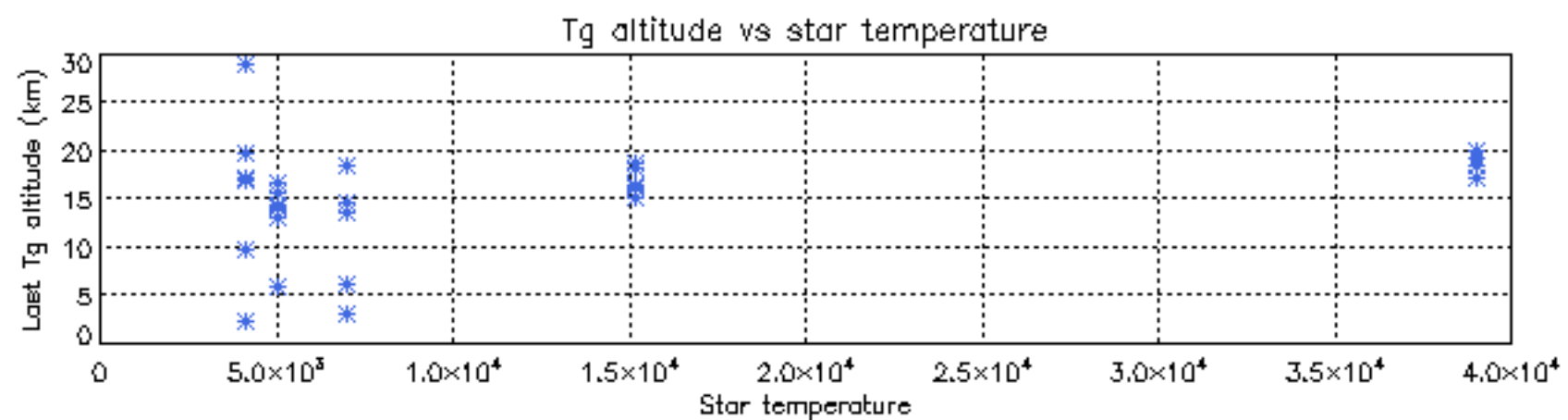
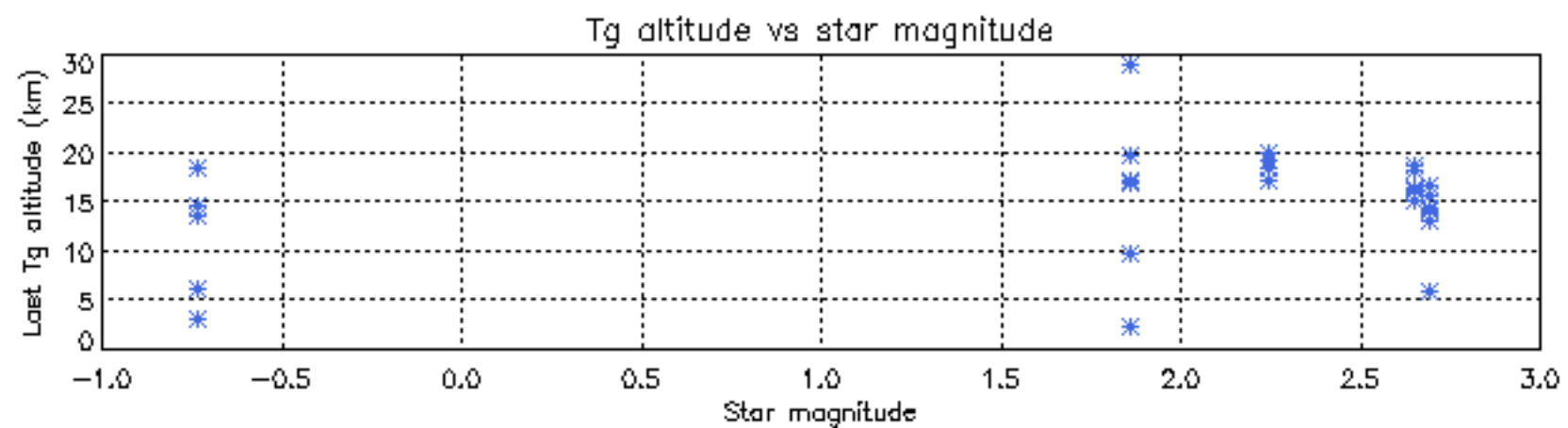
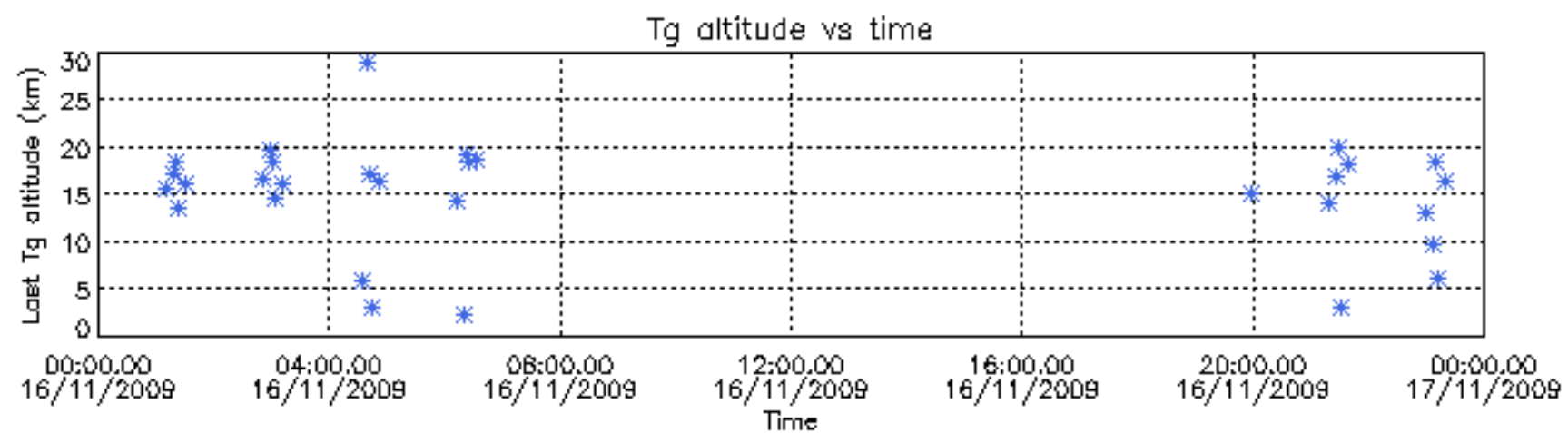
Percentage of star falling outside central band per profile



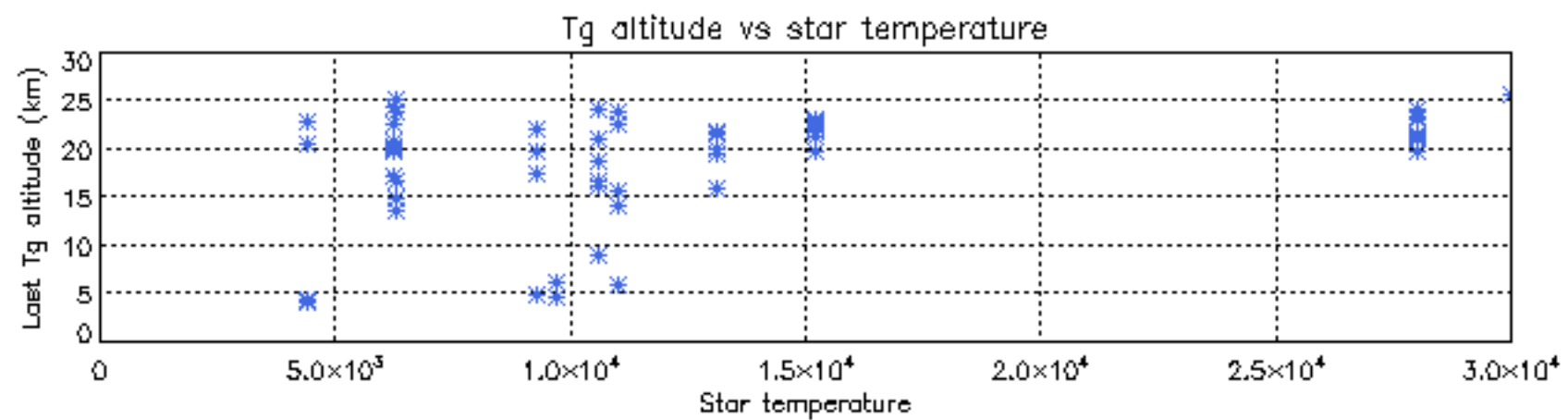
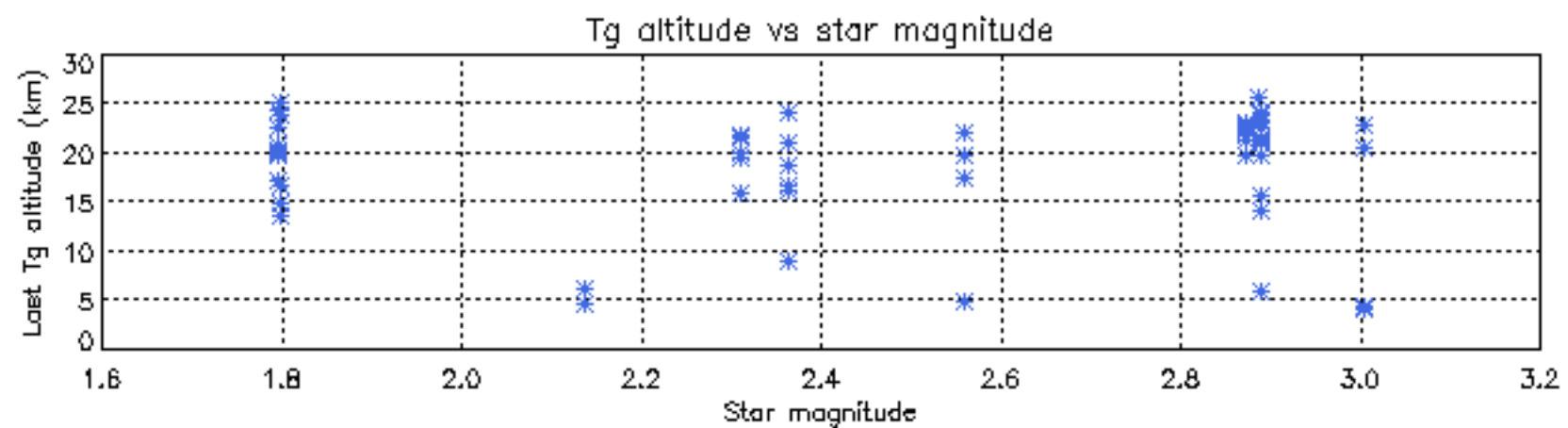
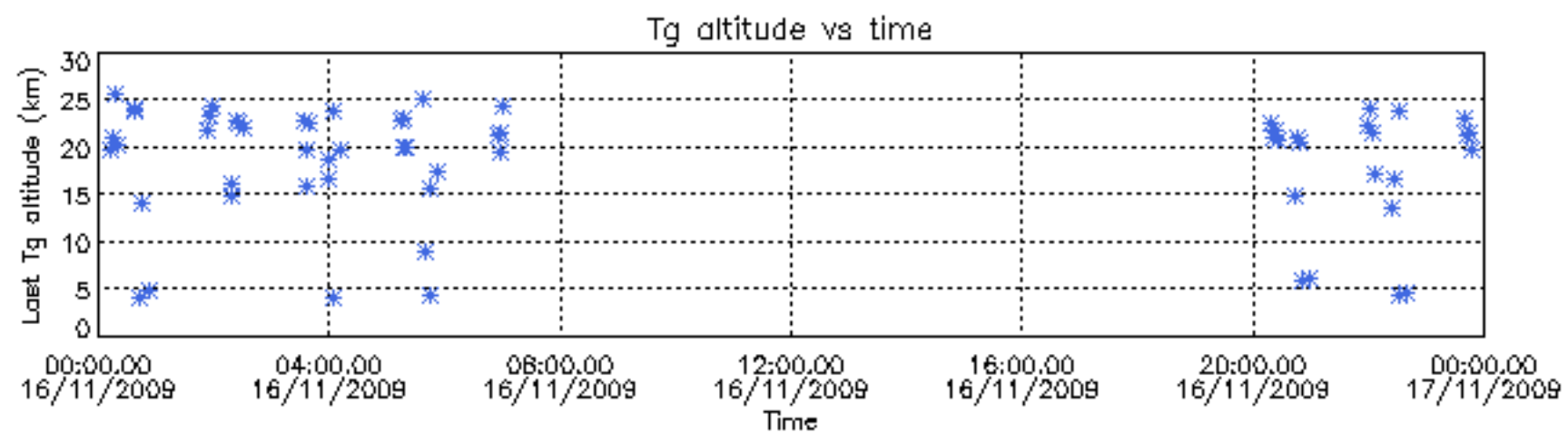
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

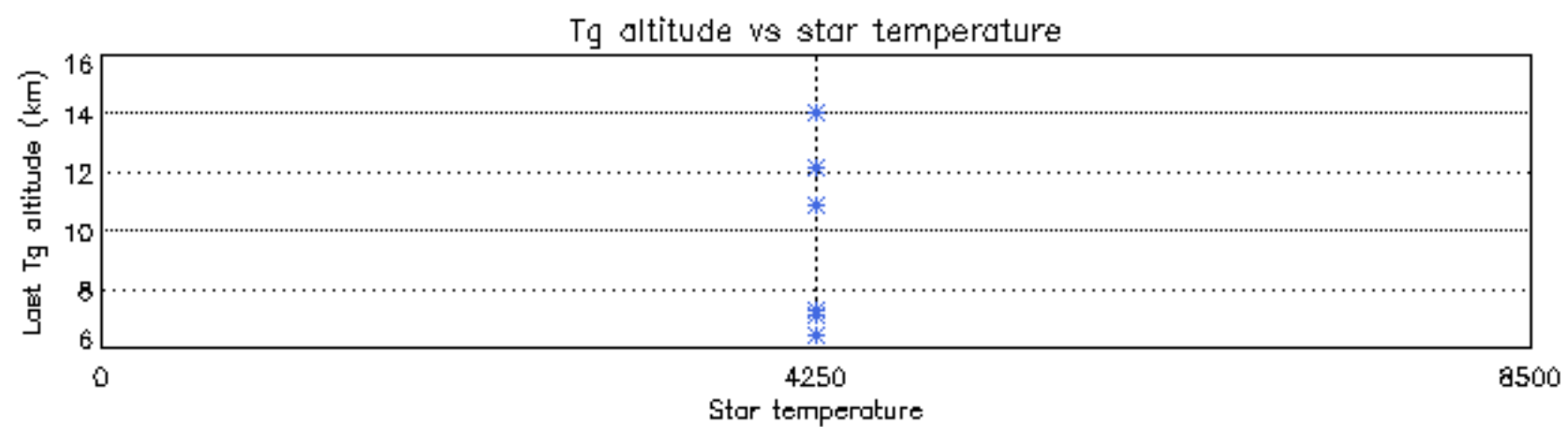
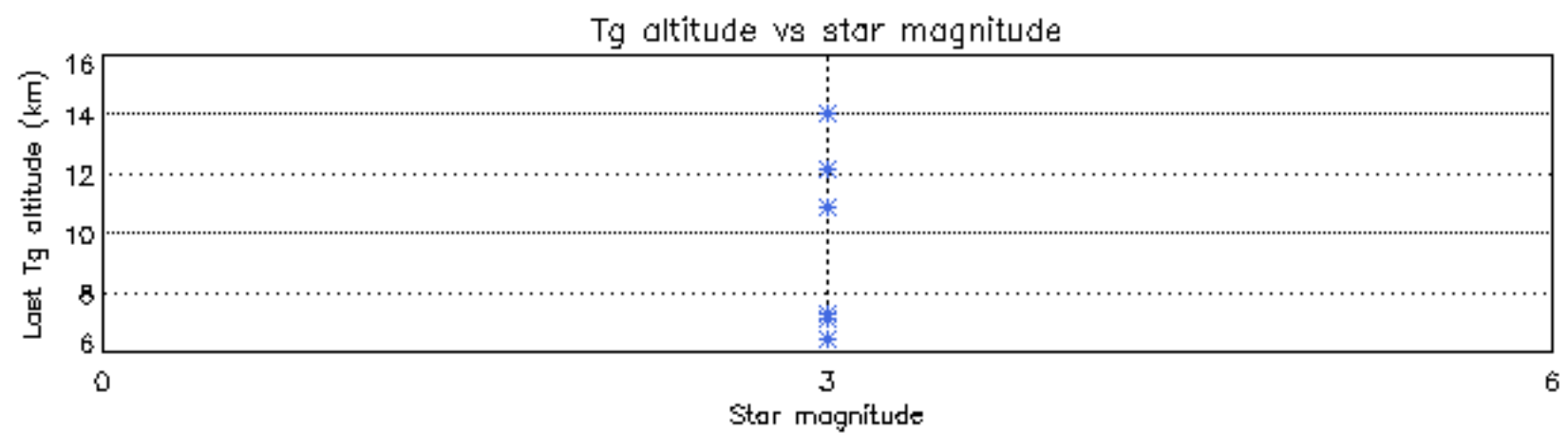
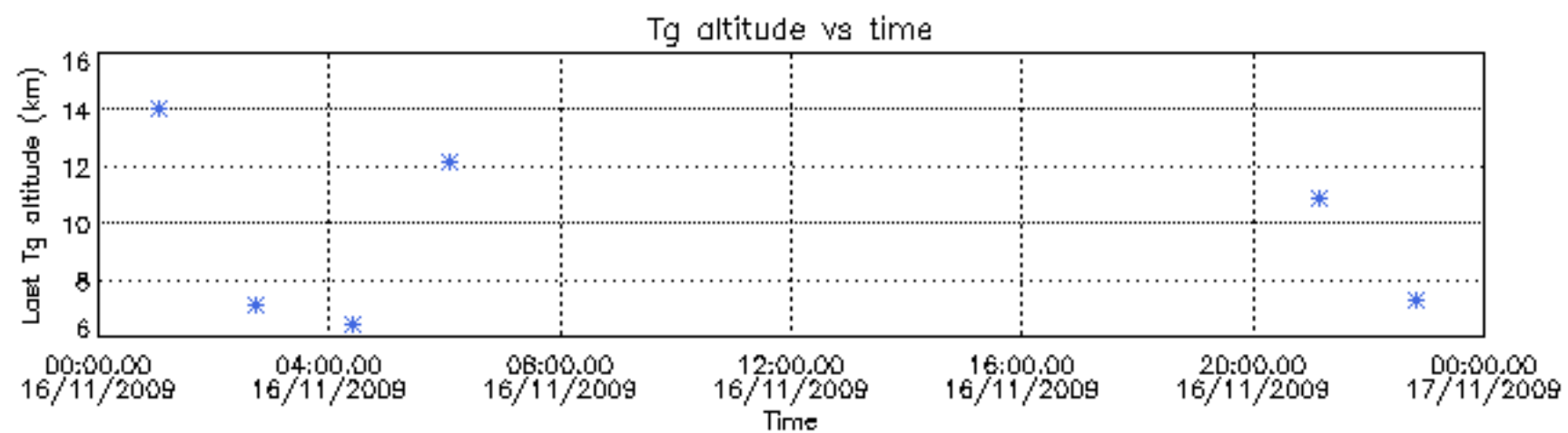


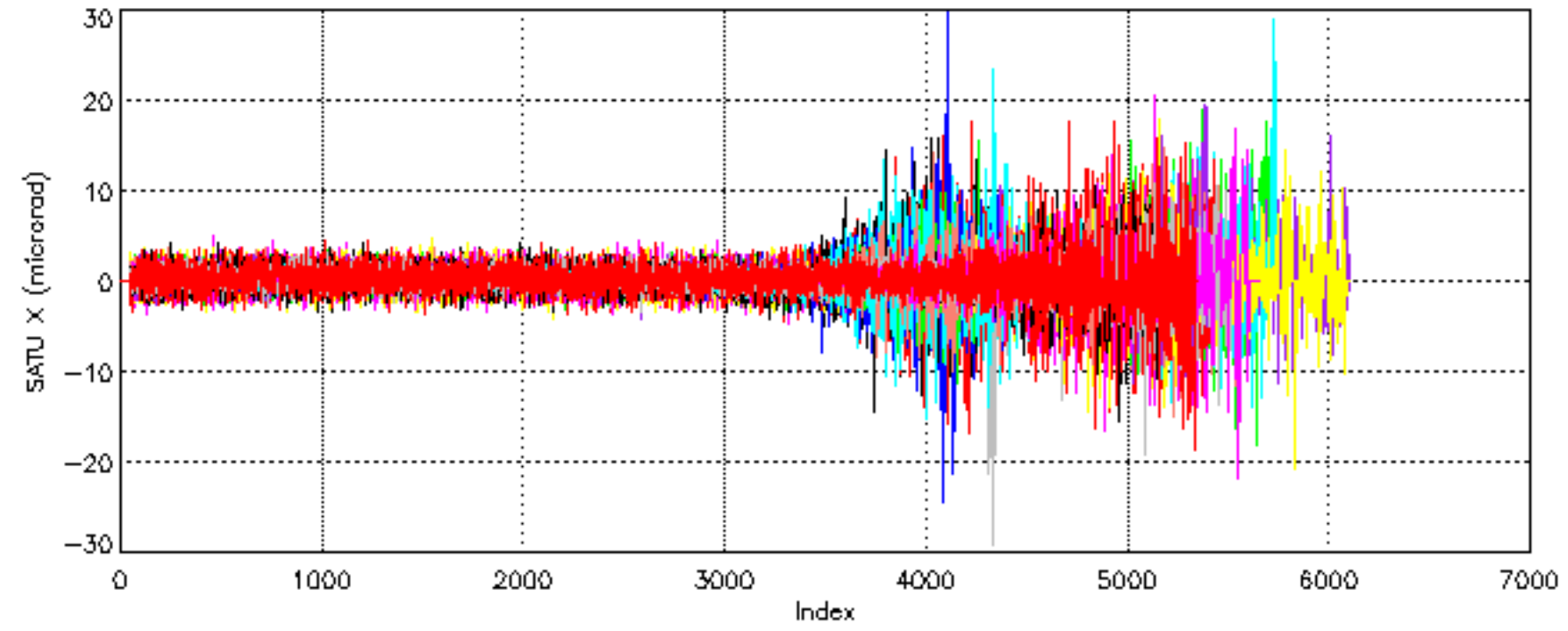
Tangent altitude at which the star is lost

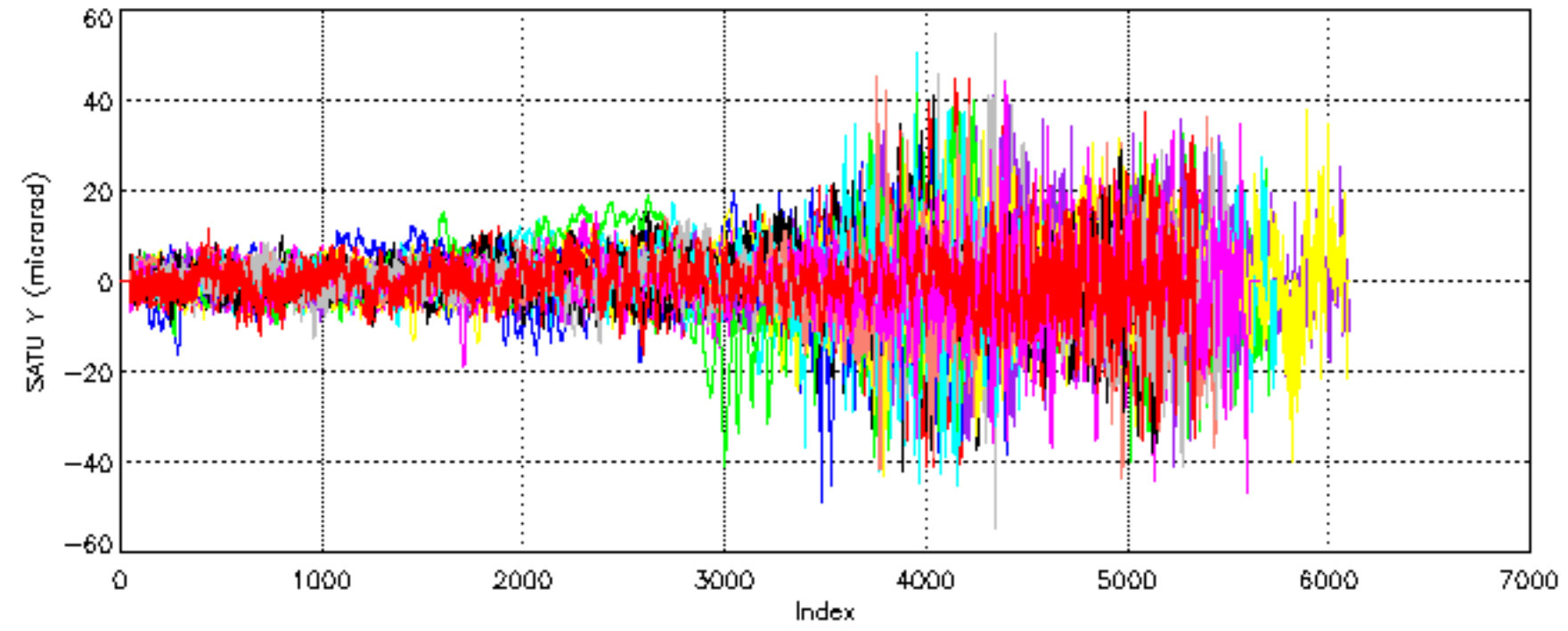


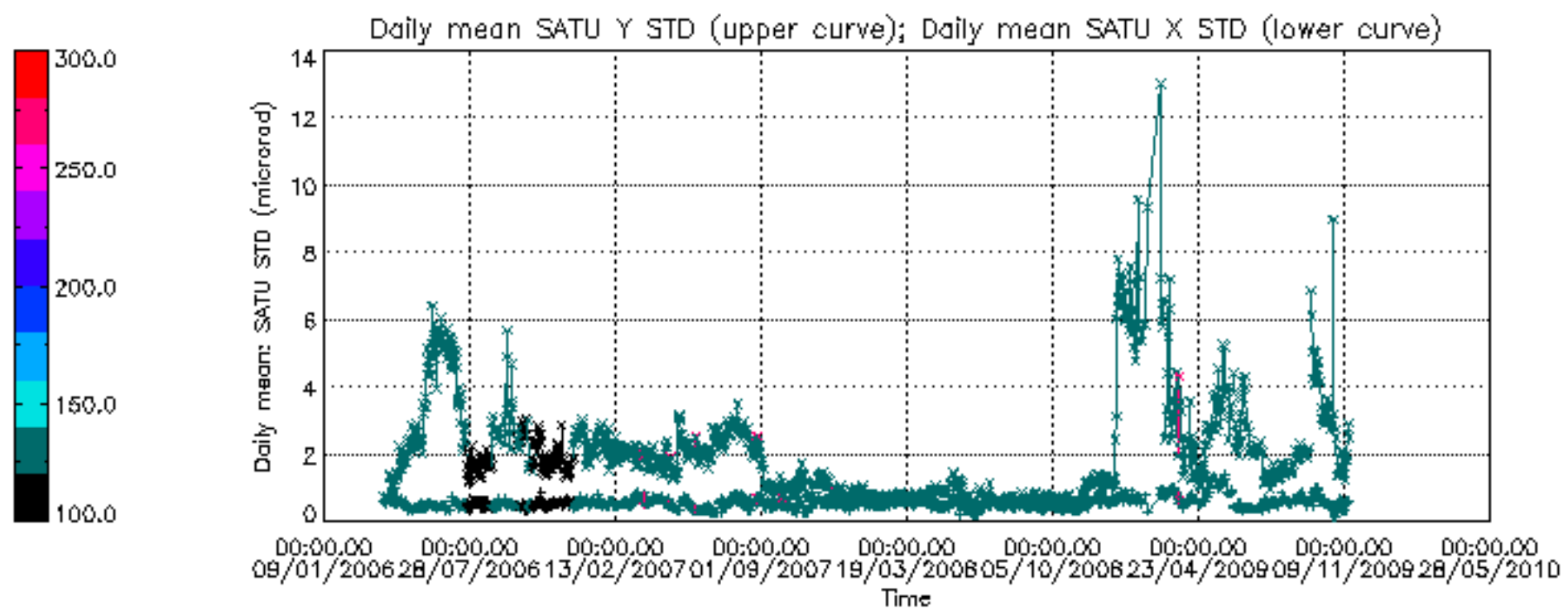


Tangent altitude at which the star is lost











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 3; 197.6; 01-NOV-2009 00:46:32; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40108  
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 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  
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 11; 2742.1; 01-NOV-2009 01:28:57; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;40108  
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 13; 3911.9; 01-NOV-2009 01:48:27; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;40108  
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 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  
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 7; 2010.1; 01-NOV-2009 02:57:21; Dark ; 56.5; 94; 92Alp Cet ; 2.53; 3100;occ; 113; 0;40109  
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 9; 349.9; 01-NOV-2009 04:10:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40110  
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13; 4229.7; 01-NOV-2009 23:41:32; Bright; 45.5; 174; 52Psi UMa ; 3.00; 4400;occ; 91; 0;40121
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 3; 2265.7; 05-NOV-2009 12:39:19; Bright; 38.0; 105; 6Bet Ari ; 2.64; 8900;occ; 76; 0;40172  
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 7; 3905.2; 05-NOV-2009 14:47:15; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;40173  
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 9; 4229.8; 05-NOV-2009 14:52:40; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;40173  
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 13; 6217.4; 05-NOV-2009 15:25:47; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;40173  
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 9; 4229.9; 05-NOV-2009 16:33:16; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;40174  
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17; 6612.5; 05-NOV-2009 18:53:34; Dark ; 61.5; 2; Alp Car ;-0.74; 7000;occ; 123; 0;40175
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5; 2521.7; 05-NOV-2009 19:26:00; Bright; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;40176
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13; 4986.4; 05-NOV-2009 20:07:04; Dark ; 68.5; 22; 32Alp Leo ; 1.36; 15200;occ; 137; 0;40176
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16; 6319.2; 05-NOV-2009 20:29:17; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40176
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4; 1164.3; 06-NOV-2009 01:45:46; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;40180
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21; 7147.9; 19-NOV-2009 11:39:51; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;40371

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4; 2527.7; 19-NOV-2009 12:03:26; Bright; 43.0; 150; 44Zet Per ; 2.89; 28000;occ; 86; 0;40372  
5; 2628.8; 19-NOV-2009 12:05:08; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40372  
6; 2797.3; 19-NOV-2009 12:07:56; Bright; 39.5; 35; 33Alp Per ; 1.79; 6250;occ; 79; 0;40372  
7; 3869.2; 19-NOV-2009 12:25:48; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;40372  
8; 3967.8; 19-NOV-2009 12:27:27; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;40372  
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11; 4334.9; 19-NOV-2009 12:33:34; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;40372  
12; 4832.4; 19-NOV-2009 12:41:51; Bright; 64.0; 62; 94Bet Leo ; 2.14; 9700;occ; 128; 0;40372  
13; 5042.1; 19-NOV-2009 12:45:21; Bright; 39.5; 121; 29Gam Vir ; 2.74; 7200;occ; 79; 0;40372  
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17; 6303.0; 19-NOV-2009 13:06:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40372  
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19; 6560.7; 19-NOV-2009 13:10:39; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40372  
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 5; 2628.8; 19-NOV-2009 13:45:43; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40373  
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 9; 4051.3; 19-NOV-2009 14:09:26; Bright; 42.0; 87; 64Gam UMA ; 2.43; 11000;occ; 84; 0;40373  
 10; 4217.0; 19-NOV-2009 14:12:12; Bright; 47.5; 174; 52Psi UMA ; 3.00; 4400;occ; 95; 0;40373  
 11; 4335.0; 19-NOV-2009 14:14:10; Bright; 54.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 108; 0;40373  
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 17; 6303.9; 19-NOV-2009 14:46:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40373  
 18; 6418.3; 19-NOV-2009 14:48:53; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;40373  
 19; 6562.1; 19-NOV-2009 14:51:17; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40373  
 20; 6748.9; 19-NOV-2009 14:54:24; Dark ; 60.0; 2; Alp Car ; -0.74; 7000;occ; 120; 0;40373  
 21; 7149.0; 19-NOV-2009 15:01:04; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;40373

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 3; 2372.4; 19-NOV-2009 15:22:03; Bright; 42.5; 146; 25Eta Tau ; 2.87; 15200;occ; 85; 0;40374  
 4; 2526.7; 19-NOV-2009 15:24:37; Bright; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;40374  
 5; 2628.3; 19-NOV-2009 15:26:19; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0;40374  
 6; 2785.7; 19-NOV-2009 15:28:56; Bright; 39.5; 175; 39Del Per ; 3.01; 19400;occ; 79; 0;40374  
 7; 3868.8; 19-NOV-2009 15:46:59; Bright; 40.0; 36; 50Alp UMA ; 1.80; 6300;occ; 80; 0;40374  
 8; 3967.7; 19-NOV-2009 15:48:38; Bright; 41.0; 82; 48Bet UMA ; 2.37; 10600;occ; 82; 0;40374  
 9; 4051.8; 19-NOV-2009 15:50:02; Bright; 38.5; 87; 64Gam UMA ; 2.43; 11000;occ; 77; 0;40374  
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 11; 4335.2; 19-NOV-2009 15:54:46; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;40374  
 12; 4833.3; 19-NOV-2009 16:03:04; Bright; 43.0; 62; 94Bet Leo ; 2.14; 9700;occ; 86; 0;40374  
 13; 5043.7; 19-NOV-2009 16:06:34; Bright; 37.0; 121; 29Gam Vir ; 2.74; 7200;occ; 74; 0;40374  
 14; 5353.5; 19-NOV-2009 16:11:44; Dark ; 44.0; 100; 4Gam Crv ; 2.58; 13100;occ; 88; 0;40374  
 15; 5446.2; 19-NOV-2009 16:13:17; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;40374  
 16; 6007.0; 19-NOV-2009 16:22:38; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;40374  
 17; 6304.8; 19-NOV-2009 16:27:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40374  
 18; 6419.2; 19-NOV-2009 16:29:30; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;40374  
 19; 6563.4; 19-NOV-2009 16:31:54; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40374  
 20; 6749.7; 19-NOV-2009 16:35:00; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;40374  
 21; 7149.8; 19-NOV-2009 16:41:40; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;40374

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 3; 2372.0; 19-NOV-2009 17:02:39; Bright; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;40375  
 4; 2526.0; 19-NOV-2009 17:05:13; Bright; 42.5; 150; 44Zet Per ; 2.89; 28000;occ; 85; 0;40375  
 5; 2628.1; 19-NOV-2009 17:06:55; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40375  
 6; 2785.1; 19-NOV-2009 17:09:32; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77; 0;40375  
 7; 3868.8; 19-NOV-2009 17:27:35; Bright; 39.5; 36; 50Alp UMA ; 1.80; 6300;occ; 79; 0;40375  
 8; 3967.4; 19-NOV-2009 17:29:14; Bright; 43.5; 82; 48Bet UMA ; 2.37; 10600;occ; 87; 0;40375  
 9; 4051.3; 19-NOV-2009 17:30:38; Bright; 41.5; 87; 64Gam UMA ; 2.43; 11000;occ; 83; 0;40375  
 10; 4216.9; 19-NOV-2009 17:33:23; Bright; 44.5; 174; 52Psi UMA ; 3.00; 4400;occ; 89; 0;40375  
 11; 4335.3; 19-NOV-2009 17:35:22; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;40375  
 12; 4833.7; 19-NOV-2009 17:43:40; Bright; 43.5; 62; 94Bet Leo ; 2.14; 9700;occ; 87; 0;40375  
 13; 5043.7; 19-NOV-2009 17:47:10; Bright; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;40375  
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 15; 5446.6; 19-NOV-2009 17:53:53; Dark ; 44.0; 171; 2Eps Crv ; 3.00; 4250;occ; 88; 0;40375  
 16; 6007.7; 19-NOV-2009 18:03:14; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40375  
 17; 6305.7; 19-NOV-2009 18:08:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40375  
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 19; 6564.6; 19-NOV-2009 18:12:31; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40375  
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5; 2525.5; 19-NOV-2009 18:45:48; Bright; 42.5; 150; 44Zet Per ; 2.89; 28000;occ; 85; 0;40376
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7; 2784.6; 19-NOV-2009 18:50:07; Bright; 39.5; 175; 39Del Per ; 3.01; 19400;occ; 79; 0;40376
8; 3868.5; 19-NOV-2009 19:08:11; Bright; 45.5; 36; 50Alp UMA ; 1.80; 6300;occ; 91; 0;40376
9; 3967.0; 19-NOV-2009 19:09:50; Bright; 47.5; 82; 48Bet UMA ; 2.37; 10600;occ; 95; 0;40376
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13; 4834.1; 19-NOV-2009 19:24:17; Bright; 46.5; 62; 94Bet Leo ; 2.14; 9700;occ; 93; 0;40376
14; 5044.0; 19-NOV-2009 19:27:47; Bright; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;40376
15; 5354.6; 19-NOV-2009 19:32:57; Dark ; 43.5; 100; 4Gam Crv ; 2.58; 13100;occ; 87; 0;40376
16; 5446.8; 19-NOV-2009 19:34:29; Dark ; 48.5; 171; 2Eps Crv ; 3.00; 4250;occ; 97; 0;40376
17; 6008.1; 19-NOV-2009 19:43:51; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;40376
18; 6306.5; 19-NOV-2009 19:48:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40376
19; 6420.3; 19-NOV-2009 19:50:43; Dark ; 55.0; 41; Eps Car ; 1.86; 4100;occ; 110; 0;40376
20; 6565.5; 19-NOV-2009 19:53:08; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40376
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3; 533.2; 20-NOV-2009 00:54:59; Dark ; 50.0; 70; Zet Pup ; 2.25; 39000;occ; 100; 0;40380
4; 716.5; 20-NOV-2009 00:58:03; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;40380
5; 1116.5; 20-NOV-2009 01:04:43; Dark ; 53.5; 108; Alp Col ; 2.65; 15200;occ; 107; 0;40380
6; 1644.2; 20-NOV-2009 01:13:30; Dark ; 47.0; 165; 34Gam Eri ; 2.95; 3200;occ; 94; 0;40380
7; 1973.1; 20-NOV-2009 01:18:59; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;40380
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13; 3966.0; 20-NOV-2009 01:52:12; Bright; 44.0; 82; 48Bet UMA ; 2.37; 10600;occ; 88; 0;40380
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5; 387.0; 20-NOV-2009 02:33:09; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;40381
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13; 535.7; 20-NOV-2009 04:16:14; Dark ; 50.0; 70; Zet Pup ; 2.25; 39000;occ; 100; 0;40382
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 13; 4195.7; 28-NOV-2009 16:09:40; Bright; 54.5; 174; 52Psi UMa ; 3.00; 4400;occ; 109; 0;40503  
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8; 1126.5; 29-NOV-2009 01:22:06; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;40509
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 9; 2329.0; 30-NOV-2009 19:37:07; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;40534
10; 2471.4; 30-NOV-2009 19:39:29; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;40534
11; 2617.3; 30-NOV-2009 19:41:55; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40534
12; 2850.1; 30-NOV-2009 19:45:48; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;40534
13; 2960.6; 30-NOV-2009 19:47:38; Bright; 52.5; 42; 34Bet Aur ; 1.90; 10200;occ; 105; 0;40534
14; 3822.4; 30-NOV-2009 20:02:00; Bright; 49.5; 36; 50Alp UMa ; 1.80; 6300;occ; 99; 0;40534
15; 3918.6; 30-NOV-2009 20:03:36; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;40534
16; 4014.9; 30-NOV-2009 20:05:12; Bright; 37.5; 32; 77Eps UMa ; 1.76; 11000;occ; 75; 0;40534
17; 4188.5; 30-NOV-2009 20:08:06; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;40534
18; 4347.9; 30-NOV-2009 20:10:45; Bright; 41.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 82; 0;40534
19; 4920.8; 30-NOV-2009 20:20:18; Bright; 62.0; 62; 94Bet Leo ; 2.14; 9700;occ; 124; 0;40534
20; 5118.8; 30-NOV-2009 20:23:36; Bright; 61.0; 121; 29Gam Vir ; 2.74; 7200;occ; 122; 0;40534
21; 5458.2; 30-NOV-2009 20:29:16; Dark ; 48.5; 100; 4Gam Crv ; 2.58; 13100;occ; 97; 0;40534
22; 5553.6; 30-NOV-2009 20:30:51; Dark ; 49.5; 171; 2Eps Crv ; 3.00; 4250;occ; 99; 0;40534
23; 6122.0; 30-NOV-2009 20:40:20; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40534
24; 6441.0; 30-NOV-2009 20:45:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40534
25; 6639.2; 30-NOV-2009 20:48:57; Dark ; 60.0; 34; Gam2Vel ; 1.79; 23000;occ; 120; 0;40534
26; 6744.5; 30-NOV-2009 20:50:42; Dark ; 56.5; 70; Zet Pup ; 2.25; 39000;occ; 113; 0;40534
27; 6953.1; 30-NOV-2009 20:54:11; Dark ; 61.0; 117; Pi Pup ; 2.71; 3800;occ; 122; 0;40534

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