

GOMOS Daily Report 27-DEC-2010

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	31DEC2010 05:14:23
Data source version	GOMOS/5.01
Start time of products	27DEC2010 00:58:55
Stop time of products	27DEC2010 23:47:29
Store outputs in DB	Yes
Nb of level 1b prods	171
Nb of prods with errors	0

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

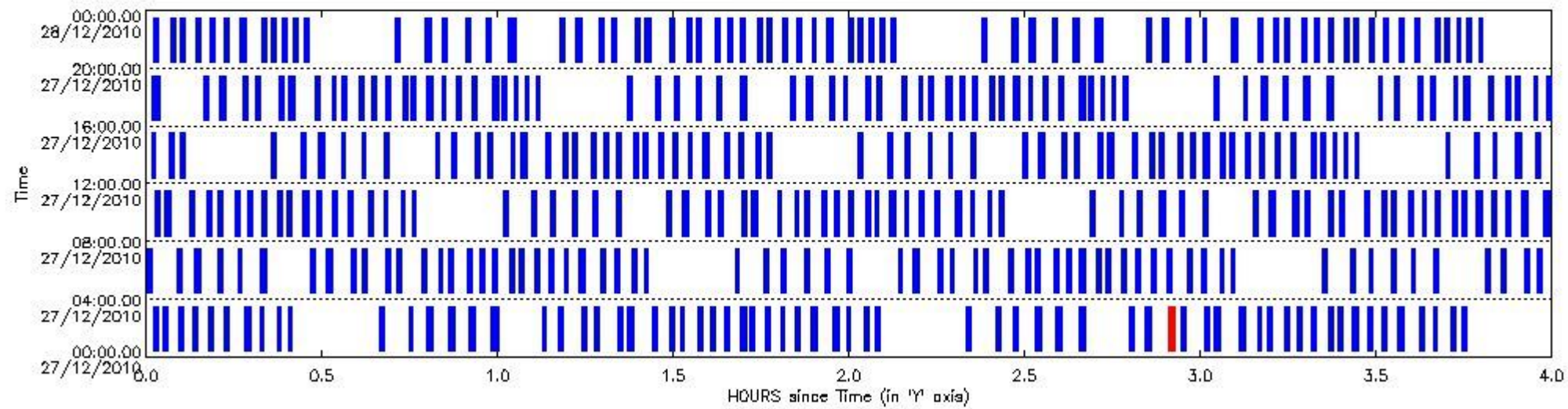
2.1 Level 0 products arrived in PCF (see template [here](#))

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
27-DEC-2010 02:54:33	5TheCen	54	46138

2.4 Summary of processed GOM_TRA_1P products

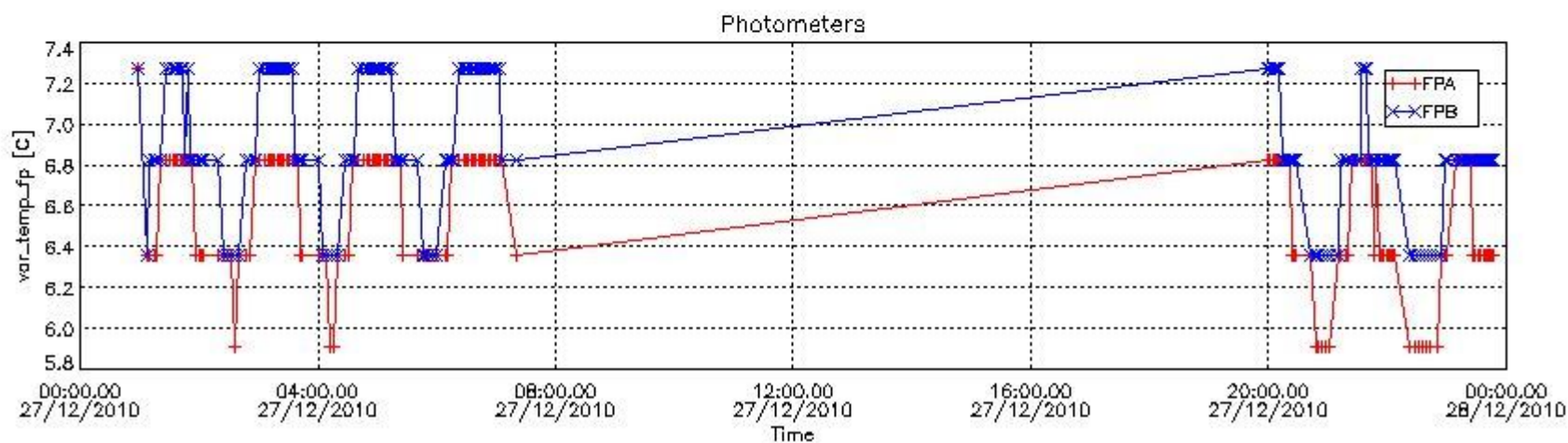
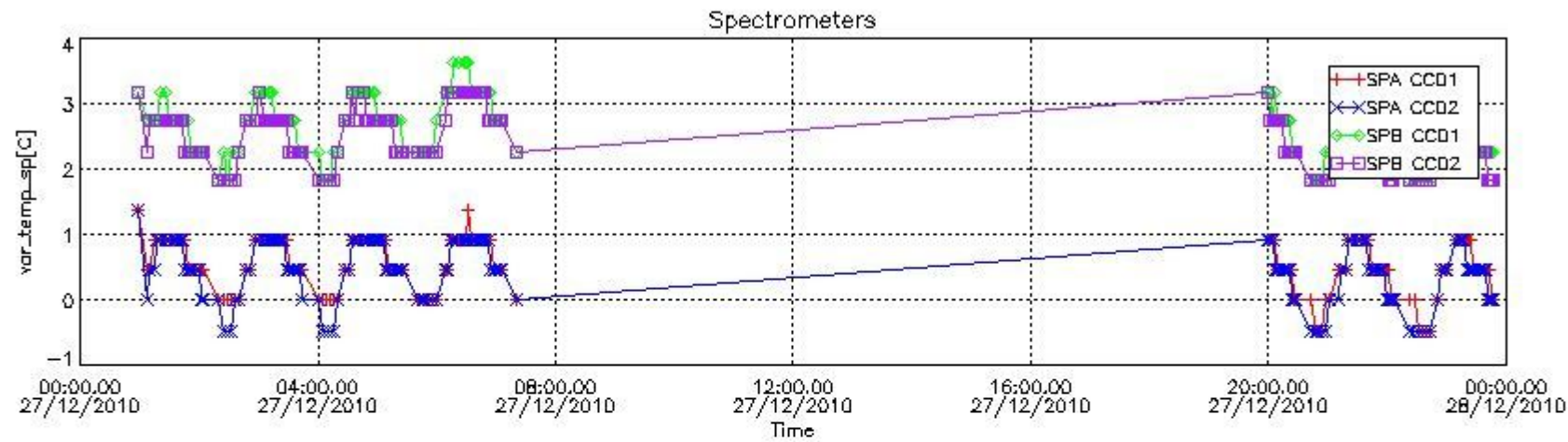
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101227_005855_000000713098_00002_46137_9536.N1	27-DEC-2010 00:58:55	Bright	71.000	111	8Eta Boo	2.6800	6000.0	142	46137	No
2	GOM_TRA_1PNPDE20101227_010740_000000393098_00002_46137_9555.N1	27-DEC-2010 01:07:40	Bright	39.000	122	9Alp2Lib	2.7470	9700.0	78	46137	No
3	GOM_TRA_1PNPDE20101227_011013_000000593098_00002_46137_9556.N1	27-DEC-2010 01:10:13	Straylight	59.000	15	67Alp Vir	0.97600	28000.	118	46137	No
4	GOM_TRA_1PNPDE20101227_011422_000000453098_00002_46137_9557.N1	27-DEC-2010 01:14:22	Dark	44.500	54	5The Cen	2.0550	4500.0	89	46137	No
5	GOM_TRA_1PNPDE20101227_011629_000000453098_00002_46137_9558.N1	27-DEC-2010 01:16:29	Dark	45.000	123	lot Cen	2.7500	10200.	90	46137	No
6	GOM_TRA_1PNPDE20101227_012028_000000463098_00003_46138_9559.N1	27-DEC-2010 01:20:28	Dark	45.500	64	Gam Cen	2.2000	10600.	91	46138	No
7	GOM_TRA_1PNPDE20101227_012629_000000483098_00003_46138_9560.N1	27-DEC-2010 01:26:29	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	46138	No
8	GOM_TRA_1PNPDE20101227_012927_000000423098_00003_46138_9561.N1	27-DEC-2010 01:29:27	Dark	42.000	71	lot Car	2.2460	7700.0	84	46138	No
9	GOM_TRA_1PNPDE20101227_013108_000000453098_00003_46138_9562.N1	27-DEC-2010 01:31:08	Dark	45.000	41	Eps Car	1.8600	4100.0	90	46138	No
10	GOM_TRA_1PNPDE20101227_013412_000000423098_00003_46138_9563.N1	27-DEC-2010 01:34:12	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	46138	No

11	GOM_TRA_1PNPDE20101227_013623_000000493098_00003_46138_9564.N1	27-DEC-2010 01:36:23	Dark	49.000	70	Zet Pup	2.2460	39000.	98	46138	No
12	GOM_TRA_1PNPDE20101227_013838_000000483098_00003_46138_9565.N1	27-DEC-2010 01:38:38	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	46138	No
13	GOM_TRA_1PNPDE20101227_014133_000000503098_00003_46138_9566.N1	27-DEC-2010 01:41:33	Straylight	49.500	23	21Eps CMa	1.5020	26000.	99	46138	No
14	GOM_TRA_1PNPDE20101227_014309_000000493098_00003_46138_9567.N1	27-DEC-2010 01:43:09	Straylight	49.000	179	24Omi2CMa	3.0320	24000.	98	46138	No
15	GOM_TRA_1PNPDE20101227_014544_000000533098_00003_46138_9568.N1	27-DEC-2010 01:45:44	Straylight	52.500	1	9Alp CMa	-1.4400	11000.	105	46138	No
16	GOM_TRA_1PNPDE20101227_014816_000000453098_00003_46138_9569.N1	27-DEC-2010 01:48:16	Straylight	44.500	56	53Kap Ori	2.0650	30000.	89	46138	No
17	GOM_TRA_1PNPDE20101227_015049_000000463098_00003_46138_9570.N1	27-DEC-2010 01:50:49	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	46138	No
18	GOM_TRA_1PNPDE20101227_015329_000000583098_00003_46138_9571.N1	27-DEC-2010 01:53:29	Twilight_stray	58.000	14	58Alp Ori	0.87000	3000.0	116	46138	No
19	GOM_TRA_1PNPDE20101227_015706_000000683098_00003_46138_9572.N1	27-DEC-2010 01:57:06	Bright	68.000	44	24Gam Gem	1.9280	11000.	136	46138	No
20	GOM_TRA_1PNPDE20101227_015934_000000403098_00003_46138_9573.N1	27-DEC-2010 01:59:34	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	46138	No
21	GOM_TRA_1PNPDE20101227_020236_000000403098_00003_46138_9574.N1	27-DEC-2010 02:02:36	Bright	40.000	107	37The Aur	2.6490	11000.	80	46138	No
22	GOM_TRA_1PNPDE20101227_020429_000000443098_00003_46138_9575.N1	27-DEC-2010 02:04:29	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	46138	No
23	GOM_TRA_1PNPDE20101227_022003_000000483098_00003_46138_9576.N1	27-DEC-2010 02:20:03	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	46138	No
24	GOM_TRA_1PNPDE20101227_022500_000000473098_00003_46138_9577.N1	27-DEC-2010 02:25:00	Bright	46.500	32	77Eps UMa	1.7630	11000.	93	46138	No
25	GOM_TRA_1PNPDE20101227_022802_000000513098_00003_46138_9578.N1	27-DEC-2010 02:28:02	Bright	51.000	39	85Eta UMa	1.8540	24000.	102	46138	No
26	GOM_TRA_1PNPDE20101227_023151_000000593098_00003_46138_9579.N1	27-DEC-2010 02:31:51	Bright	58.500	180	27Gam Boo	3.0400	8000.0	117	46138	No
27	GOM_TRA_1PNPDE20101227_023521_000000593098_00003_46138_9580.N1	27-DEC-2010 02:35:21	Bright	59.000	83		2.3780	11000.	118	46138	No
28	GOM_TRA_1PNPDE20101227_023909_000000713098_00003_46138_9581.N1	27-DEC-2010 02:39:09	Bright	71.000	111	8Eta Boo	2.6800	6000.0	142	46138	No
29	GOM_TRA_1PNPDE20101227_024754_000000403098_00003_46138_9582.N1	27-DEC-2010 02:47:54	Bright	39.500	122	9Alp2Lib	2.7470	9700.0	79	46138	No
30	GOM_TRA_1PNPDE20101227_025029_000000613098_00003_46138_9583.N1	27-DEC-2010 02:50:29	Straylight	61.000	15	67Alp Vir	0.97600	28000.	122	46138	No
31	GOM_TRA_1PNPDE20101227_025644_000000443098_00003_46138_9584.N1	27-DEC-2010 02:56:44	Dark	43.500	123	lot Cen	2.7500	10200.	87	46138	No
32	GOM_TRA_1PNPDE20101227_030043_000000433098_00004_46139_9585.N1	27-DEC-2010 03:00:43	Dark	42.500	64	Gam Cen	2.2000	10600.	85	46139	No
33	GOM_TRA_1PNPDE20101227_030644_000000513098_00004_46139_9586.N1	27-DEC-2010 03:06:44	Dark	50.500	113	Mu Vel	2.6920	5000.0	101	46139	No
34	GOM_TRA_1PNPDE20101227_030941_000000433098_00004_46139_9587.N1	27-DEC-2010 03:09:41	Dark	42.500	71	lot Car	2.2460	7700.0	85	46139	No
35	GOM_TRA_1PNPDE20101227_031123_000000453098_00004_46139_9588.N1	27-DEC-2010 03:11:23	Dark	45.000	41	Eps Car	1.8600	4100.0	90	46139	No
36	GOM_TRA_1PNPDE20101227_031427_000000473098_00004_46139_9589.N1	27-DEC-2010 03:14:27	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	46139	No
37	GOM_TRA_1PNPDE20101227_031638_000000483098_00004_46139_9590.N1	27-DEC-2010 03:16:38	Dark	47.500	70	Zet Pup	2.2460	39000.	95	46139	No
38	GOM_TRA_1PNPDE20101227_031852_000000503098_00004_46139_9591.N1	27-DEC-2010 03:18:52	Dark	49.500	117	Pi Pup	2.7060	3800.0	99	46139	No
39	GOM_TRA_1PNPDE20101227_032147_000000523098_00004_46139_9592.N1	27-DEC-2010 03:21:47	Straylight	52.000	23	21Eps CMa	1.5020	26000.	104	46139	No
40	GOM_TRA_1PNPDE20101227_032323_000000493098_00004_46139_9593.N1	27-DEC-2010 03:23:23	Straylight	49.000	179	24Omi2CMa	3.0320	24000.	98	46139	No
41	GOM_TRA_1PNPDE20101227_032558_000000533098_00004_46139_9594.N1	27-DEC-2010 03:25:58	Straylight	55.000	1	9Alp CMa	-1.4400	11000.	110	46139	No
42	GOM_TRA_1PNPDE20101227_032831_000000463098_00004_46139_9595.N1	27-DEC-2010 03:28:31	Straylight	46.000	56	53Kap Ori	2.0650	30000.	92	46139	No
43	GOM_TRA_1PNPDE20101227_033103_000000453098_00004_46139_9596.N1	27-DEC-2010 03:31:03	Straylight	45.000	30	46Eps Ori	1.6940	30000.	90	46139	No
44	GOM_TRA_1PNPDE20101227_033343_000000583098_00004_46139_9597.N1	27-DEC-2010 03:33:43	Twilight_stray	58.000	14	58Alp Ori	0.87000	3000.0	116	46139	No
45	GOM_TRA_1PNPDE20101227_033719_000000573098_00004_46139_9598.N1	27-DEC-2010 03:37:19	Bright	56.500	44	24Gam Gem	1.9280	11000.	113	46139	No
46	GOM_TRA_1PNPDE20101227_033948_000000393098_00004_46139_9599.N1	27-DEC-2010 03:39:48	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	46139	No
47	GOM_TRA_1PNPDE20101227_034250_000000403098_00004_46139_9600.N1	27-DEC-2010 03:42:50	Bright	40.000	107	37The Aur	2.6490	11000.	80	46139	No
48	GOM_TRA_1PNPDE20101227_034442_000000423098_00004_46139_9601.N1	27-DEC-2010 03:44:42	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	46139	No
49	GOM_TRA_1PNPDE20101227_040016_000000493098_00004_46139_9584.N1	27-DEC-2010 04:00:16	Bright	48.500	36	50Alp UMa	1.8000	6300.0	97	46139	No
50	GOM_TRA_1PNPDE20101227_040513_000000483098_00004_46139_9585.N1	27-DEC-2010 04:05:13	Bright	47.500	32	77Eps UMa	1.7630	11000.	95	46139	No
51	GOM_TRA_1PNPDE20101227_040816_000000633098_00004_46139_9586.N1	27-DEC-2010 04:08:16	Bright	63.000	39	85Eta UMa	1.8540	24000.	126	46139	No
52	GOM_TRA_1PNPDE20101227_041205_000000603098_00004_46139_9587.N1	27-DEC-2010 04:12:05	Bright	60.000	180	27Gam Boo	3.0400	8000.0	120	46139	No
53	GOM_TRA_1PNPDE20101227_041535_000000393098_00004_46139_9588.N1	27-DEC-2010 04:15:35	Bright	39.000	83		2.3780	11000.	78	46139	No
54	GOM_TRA_1PNPDE20101227_041924_000000713098_00004_46139_9589.N1	27-DEC-2010 04:19:24	Bright	71.000	111	8Eta Boo	2.6800	6000.0	142	46139	No
55	GOM_TRA_1PNPDE20101227_042809_000000473098_00004_46139_9590.N1	27-DEC-2010 04:28:09	Bright	46.500	122	9Alp2Lib	2.7470	9700.0	93	46139	No
56	GOM_TRA_1PNPDE20101227_043044_000000593098_00004_46139_9591.N1	27-DEC-2010 04:30:44	Straylight	59.000	15	67Alp Vir	0.97600	28000.	118	46139	No
57	GOM_TRA_1PNPDE20101227_043452_000000533098_00004_46139_9592.N1	27-DEC-2010 04:34:52	Dark	52.500	54	5The Cen	2.0550	4500.0	105	46139	No
58	GOM_TRA_1PNPDE20101227_043659_000000453098_00004_46139_9593.N1	27-DEC-2010 04:36:59	Dark	44.500	123	lot Cen	2.7500	10200.	89	46139	No
59	GOM_TRA_1PNPDE20101227_044058_000000423098_00005_46140_9594.N1	27-DEC-2010 04:40:58	Dark	42.000	64	Gam Cen	2.2000	10600.	84	46140	No
60	GOM_TRA_1PNPDE20101227_044659_000000483098_00005_46140_9595.N1	27-DEC-2010 04:46:59	Dark	48.000	113	Mu Vel	2.6920	5000.0	96	46140	No
61	GOM_TRA_1PNPDE20101227_044956_000000433098_00005_46140_9596.N1	27-DEC-2010 04:49:56	Dark	42.500	71	lot Car	2.2460	7700.0	85	46140	No
62	GOM_TRA_1PNPDE20101227_045137_000000553098_00005_46140_9597.N1	27-DEC-2010 04:51:37	Dark	54.500	41	Eps Car	1.8600	4100.0	109	46140	No
63	GOM_TRA_1PNPDE20101227_045442_000000483098_00005_46140_9598.N1	27-DEC-2010 04:54:42	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	46140	No
64	GOM_TRA_1PNPDE20101227_045652_000000513098_00005_46140_9599.N1	27-DEC-2010 04:56:52	Dark	51.000	70	Zet Pup	2.2460	39000.	102	46140	No
65	GOM_TRA_1PNPDE20101227_045907_000000483098_00005_46140_9600.N1	27-DEC-2010 04:59:07	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	46140	No
66	GOM_TRA_1PNPDE20101227_050201_000000483098_00005_46140_9601.N1	27-DEC-2010 05:02:01	Straylight	48.000	23	21Eps CMa	1.5020	26000.	96	46140	No
67	GOM_TRA_1PNPDE20101227_050337_000000493098_00005_46140_9602.N1	27-DEC-2010 05:03:37	Straylight	48.500	179	24Omi2CMa	3.0320	24000.	97	46140	No
68	GOM_TRA_1PNPDE20101227_050613_000000633098_00005_46140_9603.N1	27-DEC-2010 05:06:13	Straylight	63.000	1	9Alp CMa	-1.4400	11000.	126	46140	No
69	GOM_TRA_1PNPDE20101227_050845_000000433098_00005_46140_9604.N1	27-DEC-2010 05:08:45	Straylight	42.500	56	53Kap Ori	2.0650	30000.	85	46140	No

70	GOM_TRA_1PNPDE20101227_051118_000000473098_00005_46140_9605.N1	27-DEC-2010 05:11:18	Straylight	47.000	30	46Eps Ori	1.6940	30000.	94	46140	No
71	GOM_TRA_1PNPDE20101227_051357_000000583098_00005_46140_9606.N1	27-DEC-2010 05:13:57	Tw_i_and_stray	58.000	14	58Alp Ori	0.87000	3000.0	116	46140	No
72	GOM_TRA_1PNPDE20101227_051733_000000553098_00005_46140_9607.N1	27-DEC-2010 05:17:33	Bright	54.500	44	24Gam Gem	1.9280	11000.	109	46140	No
73	GOM_TRA_1PNPDE20101227_052002_000000393098_00005_46140_9608.N1	27-DEC-2010 05:20:02	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	46140	No
74	GOM_TRA_1PNPDE20101227_052303_000000393098_00005_46140_9609.N1	27-DEC-2010 05:23:03	Bright	39.000	107	37The Aur	2.6490	11000.	78	46140	No
75	GOM_TRA_1PNPDE20101227_052456_000000413098_00005_46140_9610.N1	27-DEC-2010 05:24:56	Bright	40.500	6	13Alp Aur	0.080000	3400.0	81	46140	No
76	GOM_TRA_1PNPDE20101227_054030_000000453098_00005_46140_9611.N1	27-DEC-2010 05:40:30	Bright	45.000	36	50Alp UMa	1.8000	6300.0	90	46140	No
77	GOM_TRA_1PNPDE20101227_054527_000000473098_00005_46140_9602.N1	27-DEC-2010 05:45:27	Bright	47.000	32	77Eps UMa	1.7630	11000.	94	46140	No
78	GOM_TRA_1PNPDE20101227_054830_000000433098_00005_46140_9603.N1	27-DEC-2010 05:48:30	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	46140	No
79	GOM_TRA_1PNPDE20101227_055219_000000603098_00005_46140_9604.N1	27-DEC-2010 05:52:19	Bright	60.000	180	27Gam Boo	3.0400	8000.0	120	46140	No
80	GOM_TRA_1PNPDE20101227_055549_000000473098_00005_46140_9605.N1	27-DEC-2010 05:55:49	Bright	47.000	83		2.3780	11000.	94	46140	No
81	GOM_TRA_1PNPDE20101227_055938_000000503098_00005_46140_9606.N1	27-DEC-2010 05:59:38	Bright	49.500	111	8Eta Boo	2.6800	6000.0	99	46140	No
82	GOM_TRA_1PNPDE20101227_060823_000000443098_00005_46140_9607.N1	27-DEC-2010 06:08:23	Bright	44.000	122	9Alp2Lib	2.7470	9700.0	88	46140	No
83	GOM_TRA_1PNPDE20101227_061059_000000633098_00005_46140_9608.N1	27-DEC-2010 06:10:59	Straylight	62.500	15	67Alp Vir	0.97600	28000.	125	46140	No
84	GOM_TRA_1PNPDE20101227_061506_000000473098_00005_46140_9609.N1	27-DEC-2010 06:15:06	Dark	47.000	54	5The Cen	2.0550	4500.0	94	46140	No
85	GOM_TRA_1PNPDE20101227_061714_000000443098_00005_46140_9610.N1	27-DEC-2010 06:17:14	Dark	44.000	123	lot Cen	2.7500	10200.	88	46140	No
86	GOM_TRA_1PNPDE20101227_062113_000000443098_00006_46141_9611.N1	27-DEC-2010 06:21:13	Dark	44.000	64	Gam Cen	2.2000	10600.	88	46141	No
87	GOM_TRA_1PNPDE20101227_062714_000000483098_00006_46141_9612.N1	27-DEC-2010 06:27:14	Dark	48.000	113	Mu Vel	2.6920	5000.0	96	46141	No
88	GOM_TRA_1PNPDE20101227_063011_000000423098_00006_46141_9613.N1	27-DEC-2010 06:30:11	Dark	42.000	71	lot Car	2.2460	7700.0	84	46141	No
89	GOM_TRA_1PNPDE20101227_063152_000000503098_00006_46141_9614.N1	27-DEC-2010 06:31:52	Dark	50.000	41	Eps Car	1.8600	4100.0	100	46141	No
90	GOM_TRA_1PNPDE20101227_063456_000000463098_00006_46141_9615.N1	27-DEC-2010 06:34:56	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	46141	No
91	GOM_TRA_1PNPDE20101227_063707_000000493098_00006_46141_9616.N1	27-DEC-2010 06:37:07	Dark	48.500	70	Zet Pup	2.2460	39000.	97	46141	No
92	GOM_TRA_1PNPDE20101227_063922_000000533098_00006_46141_9617.N1	27-DEC-2010 06:39:22	Dark	52.500	117	Pi Pup	2.7060	3800.0	105	46141	No
93	GOM_TRA_1PNPDE20101227_064216_000000493098_00006_46141_9618.N1	27-DEC-2010 06:42:16	Straylight	49.000	23	21Eps CMa	1.5020	26000.	98	46141	No
94	GOM_TRA_1PNPDE20101227_064352_000000473098_00006_46141_9619.N1	27-DEC-2010 06:43:52	Straylight	46.500	179	24Omi2CMa	3.0320	24000.	93	46141	No
95	GOM_TRA_1PNPDE20101227_064627_000000553098_00006_46141_9620.N1	27-DEC-2010 06:46:27	Straylight	55.000	1	9Alp CMa	-1.4400	11000.	110	46141	No
96	GOM_TRA_1PNPDE20101227_064859_000000453098_00006_46141_9621.N1	27-DEC-2010 06:48:59	Straylight	45.000	56	53Kap Ori	2.0650	30000.	90	46141	No
97	GOM_TRA_1PNPDE20101227_065132_000000483098_00006_46141_9622.N1	27-DEC-2010 06:51:32	Straylight	48.000	30	46Eps Ori	1.6940	30000.	96	46141	No
98	GOM_TRA_1PNPDE20101227_065411_000000583098_00006_46141_9623.N1	27-DEC-2010 06:54:11	Tw_i_and_stray	58.000	14	58Alp Ori	0.87000	3000.0	116	46141	No
99	GOM_TRA_1PNPDE20101227_065746_000000523098_00006_46141_9624.N1	27-DEC-2010 06:57:46	Bright	51.500	44	24Gam Gem	1.9280	11000.	103	46141	No
100	GOM_TRA_1PNPDE20101227_070016_000000413098_00006_46141_9625.N1	27-DEC-2010 07:00:16	Bright	41.000	28	12Bet Tau	1.6500	15200.	82	46141	No
101	GOM_TRA_1PNPDE20101227_070317_000000403098_00006_46141_9626.N1	27-DEC-2010 07:03:17	Bright	39.500	107	37The Aur	2.6490	11000.	79	46141	No
102	GOM_TRA_1PNPDE20101227_070510_000000423098_00006_46141_9627.N1	27-DEC-2010 07:05:10	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	46141	No
103	GOM_TRA_1PNPDE20101227_072043_000000483098_00006_46141_9628.N1	27-DEC-2010 07:20:43	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	46141	No
104	GOM_TRA_1PNPDE20101227_195904_000000483098_00014_46149_9743.N1	27-DEC-2010 19:59:04	Dark	47.500	70	Zet Pup	2.2460	39000.	95	46149	No
105	GOM_TRA_1PNPDE20101227_200117_000000473098_00014_46149_9744.N1	27-DEC-2010 20:01:17	Dark	47.000	117	Pi Pup	2.7060	3800.0	94	46149	No
106	GOM_TRA_1PNPDE20101227_200410_000000503098_00014_46149_9745.N1	27-DEC-2010 20:04:10	Straylight	50.000	23	21Eps CMa	1.5020	26000.	100	46149	No
107	GOM_TRA_1PNPDE20101227_200546_000000463098_00014_46149_9746.N1	27-DEC-2010 20:05:46	Straylight	46.000	179	24Omi2CMa	3.0320	24000.	92	46149	No
108	GOM_TRA_1PNPDE20101227_200820_000000553098_00014_46149_9747.N1	27-DEC-2010 20:08:20	Straylight	55.000	1	9Alp CMa	-1.4400	11000.	110	46149	No
109	GOM_TRA_1PNPDE20101227_201051_000000453098_00014_46149_9748.N1	27-DEC-2010 20:10:51	Straylight	45.000	56	53Kap Ori	2.0650	30000.	90	46149	No
110	GOM_TRA_1PNPDE20101227_201324_000000463098_00014_46149_9749.N1	27-DEC-2010 20:13:24	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	46149	No
111	GOM_TRA_1PNPDE20101227_201602_000000583098_00014_46149_9750.N1	27-DEC-2010 20:16:02	Tw_i_and_stray	58.000	14	58Alp Ori	0.87000	3000.0	116	46149	No
112	GOM_TRA_1PNPDE20101227_201935_000000593098_00014_46149_9751.N1	27-DEC-2010 20:19:35	Bright	58.500	44	24Gam Gem	1.9280	11000.	117	46149	No
113	GOM_TRA_1PNPDE20101227_202111_000000493098_00014_46149_9752.N1	27-DEC-2010 20:21:11	Bright	49.000	151	13Mu Gem	2.8900	3000.0	98	46149	No
114	GOM_TRA_1PNPDE20101227_202316_000000393098_00014_46149_9753.N1	27-DEC-2010 20:23:16	Bright	38.500	114	3lot Aur	2.6930	4600.0	77	46149	No
115	GOM_TRA_1PNPDE20101227_202506_000000413098_00014_46149_9754.N1	27-DEC-2010 20:25:06	Bright	40.500	107	37The Aur	2.6490	11000.	81	46149	No
116	GOM_TRA_1PNPDE20101227_202701_000000413098_00014_46149_9755.N1	27-DEC-2010 20:27:01	Bright	41.000	6	13Alp Aur	0.080000	3400.0	82	46149	No
117	GOM_TRA_1PNPDE20101227_204230_000000453098_00014_46149_9756.N1	27-DEC-2010 20:42:30	Bright	45.000	36	50Alp UMa	1.8000	6300.0	90	46149	No
118	GOM_TRA_1PNPDE20101227_204730_000000673098_00014_46149_9757.N1	27-DEC-2010 20:47:30	Bright	67.000	32	77Eps UMa	1.7630	11000.	134	46149	No
119	GOM_TRA_1PNPDE20101227_205035_000000433098_00014_46149_9758.N1	27-DEC-2010 20:50:35	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	46149	No
120	GOM_TRA_1PNPDE20101227_205426_000000603098_00014_46149_9759.N1	27-DEC-2010 20:54:26	Bright	60.000	180	27Gam Boo	3.0400	8000.0	120	46149	No
121	GOM_TRA_1PNPDE20101227_205757_000000593098_00014_46149_9760.N1	27-DEC-2010 20:57:57	Bright	59.000	83		2.3780	11000.	118	46149	No
122	GOM_TRA_1PNPDE20101227_210148_000000723098_00014_46149_9761.N1	27-DEC-2010 21:01:48	Bright	71.500	111	8Eta Boo	2.6800	6000.0	143	46149	No
123	GOM_TRA_1PNPDE20101227_211034_000000453098_00014_46149_9755.N1	27-DEC-2010 21:10:34	Bright	45.000	122	9Alp2Lib	2.7470	9700.0	90	46149	No
124	GOM_TRA_1PNPDE20101227_211315_000000663098_00014_46149_9756.N1	27-DEC-2010 21:13:15	Straylight	66.000	15	67Alp Vir	0.97600	28000.	132	46149	No
125	GOM_TRA_1PNPDE20101227_211718_000000493098_00014_46149_9757.N1	27-DEC-2010 21:17:18	Dark	48.500	54	5The Cen	2.0550	4500.0	97	46149	No
126	GOM_TRA_1PNPDE20101227_211928_000000453098_00014_46149_9758.N1	27-DEC-2010 21:19:28	Dark	45.000	123	lot Cen	2.7500	10200.	90	46149	No
127	GOM_TRA_1PNPDE20101227_212326_000000453098_00015_46150_9759.N1	27-DEC-2010 21:23:26	Dark	44.500	64	Gam Cen	2.2000	10600.	89	46150	No
128	GOM_TRA_1PNPDE20101227_212928_000000483098_00015_46150_9760.N1	27-DEC-2010 21:29:28	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	46150	No

129	GOM_TRA_1PNPDE20101227_213222_000000443098_00015_46150_9761.N1	27-DEC-2010 21:32:22	Dark	44.000	71	lot Car	2.2460	7700.0	88	46150	No
130	GOM_TRA_1PNPDE20101227_213402_000000493098_00015_46150_9762.N1	27-DEC-2010 21:34:02	Dark	49.000	41	Eps Car	1.8600	4100.0	98	46150	No
131	GOM_TRA_1PNPDE20101227_213707_000000463098_00015_46150_9763.N1	27-DEC-2010 21:37:07	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	46150	No
132	GOM_TRA_1PNPDE20101227_213918_000000523098_00015_46150_9764.N1	27-DEC-2010 21:39:18	Dark	51.500	70	Zet Pup	2.2460	39000.	103	46150	No
133	GOM_TRA_1PNPDE20101227_214131_000000503098_00015_46150_9765.N1	27-DEC-2010 21:41:31	Dark	50.000	117	Pi Pup	2.7060	3800.0	100	46150	No
134	GOM_TRA_1PNPDE20101227_214425_000000443098_00015_46150_9766.N1	27-DEC-2010 21:44:25	Straylight	44.000	23	21Eps CMa	1.5020	26000.	88	46150	No
135	GOM_TRA_1PNPDE20101227_214600_000000493098_00015_46150_9767.N1	27-DEC-2010 21:46:00	Straylight	48.500	179	24Omi2CMa	3.0320	24000.	97	46150	No
136	GOM_TRA_1PNPDE20101227_214834_000000523098_00015_46150_9768.N1	27-DEC-2010 21:48:34	Straylight	51.500	1	9Alp CMa	-1.4400	11000.	103	46150	No
137	GOM_TRA_1PNPDE20101227_215105_000000433098_00015_46150_9769.N1	27-DEC-2010 21:51:05	Straylight	43.000	56	53Kap Ori	2.0650	30000.	86	46150	No
138	GOM_TRA_1PNPDE20101227_215338_000000463098_00015_46150_9770.N1	27-DEC-2010 21:53:38	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	46150	No
139	GOM_TRA_1PNPDE20101227_215616_000000573098_00015_46150_9771.N1	27-DEC-2010 21:56:16	Twilight_stray	57.000	14	58Alp Ori	0.87000	3000.0	114	46150	No
140	GOM_TRA_1PNPDE20101227_215948_000000553098_00015_46150_9772.N1	27-DEC-2010 21:59:48	Bright	55.000	44	24Gam Gem	1.9280	11000.	110	46150	No
141	GOM_TRA_1PNPDE20101227_220124_000000473098_00015_46150_9773.N1	27-DEC-2010 22:01:24	Bright	47.000	151	13Mu Gem	2.8900	3000.0	94	46150	No
142	GOM_TRA_1PNPDE20101227_220329_000000373098_00015_46150_9774.N1	27-DEC-2010 22:03:29	Bright	37.000	114	3lot Aur	2.6930	4600.0	74	46150	No
143	GOM_TRA_1PNPDE20101227_220520_000000413098_00015_46150_9775.N1	27-DEC-2010 22:05:20	Bright	40.500	107	37The Aur	2.6490	11000.	81	46150	No
144	GOM_TRA_1PNPDE20101227_220715_000000423098_00015_46150_9776.N1	27-DEC-2010 22:07:15	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	46150	No
145	GOM_TRA_1PNPDE20101227_222244_000000443098_00015_46150_9777.N1	27-DEC-2010 22:22:44	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	46150	No
146	GOM_TRA_1PNPDE20101227_222744_000000593098_00015_46150_9778.N1	27-DEC-2010 22:27:44	Bright	58.500	32	77Eps UMa	1.7630	11000.	117	46150	No
147	GOM_TRA_1PNPDE20101227_223049_000000643098_00015_46150_9779.N1	27-DEC-2010 22:30:49	Bright	64.000	39	85Eta UMa	1.8540	24000.	128	46150	No
148	GOM_TRA_1PNPDE20101227_223440_000000603098_00015_46150_9780.N1	27-DEC-2010 22:34:40	Bright	60.000	180	27Gam Boo	3.0400	8000.0	120	46150	No
149	GOM_TRA_1PNPDE20101227_223811_000000593098_00015_46150_9781.N1	27-DEC-2010 22:38:11	Bright	59.000	83		2.3780	11000.	118	46150	No
150	GOM_TRA_1PNPDE20101227_224203_000000723098_00015_46150_9782.N1	27-DEC-2010 22:42:03	Bright	71.500	111	8Eta Boo	2.6800	6000.0	143	46150	No
151	GOM_TRA_1PNPDE20101227_225048_000000473098_00015_46150_9776.N1	27-DEC-2010 22:50:48	Bright	47.000	122	9Alp2Lib	2.7470	9700.0	94	46150	No
152	GOM_TRA_1PNPDE20101227_225330_000000643098_00015_46150_9777.N1	27-DEC-2010 22:53:30	Straylight	63.500	15	67Alp Vir	0.97600	28000.	127	46150	No
153	GOM_TRA_1PNPDE20101227_225733_000000473098_00015_46150_9778.N1	27-DEC-2010 22:57:33	Dark	46.500	54	5The Cen	2.0550	4500.0	93	46150	No
154	GOM_TRA_1PNPDE20101227_230023_000000403098_00015_46150_9779.N1	27-DEC-2010 23:00:23	Dark	39.500	95	Zet Cen	2.5450	26000.	79	46150	No
155	GOM_TRA_1PNPDE20101227_230943_000000513098_00016_46151_9780.N1	27-DEC-2010 23:09:43	Dark	50.500	113	Mu Vel	2.6920	5000.0	101	46151	No
156	GOM_TRA_1PNPDE20101227_231237_000000413098_00016_46151_9781.N1	27-DEC-2010 23:12:37	Dark	41.000	71	lot Car	2.2460	7700.0	82	46151	No
157	GOM_TRA_1PNPDE20101227_231417_000000503098_00016_46151_9782.N1	27-DEC-2010 23:14:17	Dark	49.500	41	Eps Car	1.8600	4100.0	99	46151	No
158	GOM_TRA_1PNPDE20101227_231722_000000513098_00016_46151_9783.N1	27-DEC-2010 23:17:22	Dark	51.000	34	Gam2Vel	1.7930	23000.	102	46151	No
159	GOM_TRA_1PNPDE20101227_231933_000000473098_00016_46151_9784.N1	27-DEC-2010 23:19:33	Dark	47.000	70	Zet Pup	2.2460	39000.	94	46151	No
160	GOM_TRA_1PNPDE20101227_232146_000000533098_00016_46151_9785.N1	27-DEC-2010 23:21:46	Dark	52.500	117	Pi Pup	2.7060	3800.0	105	46151	No
161	GOM_TRA_1PNPDE20101227_232439_000000513098_00016_46151_9786.N1	27-DEC-2010 23:24:39	Straylight	50.500	23	21Eps CMa	1.5020	26000.	101	46151	No
162	GOM_TRA_1PNPDE20101227_232614_000000483098_00016_46151_9787.N1	27-DEC-2010 23:26:14	Straylight	47.500	179	24Omi2CMa	3.0320	24000.	95	46151	No
163	GOM_TRA_1PNPDE20101227_232848_000000503098_00016_46151_9788.N1	27-DEC-2010 23:28:48	Straylight	50.000	1	9Alp CMa	-1.4400	11000.	100	46151	No
164	GOM_TRA_1PNPDE20101227_233119_000000413098_00016_46151_9789.N1	27-DEC-2010 23:31:19	Straylight	41.000	56	53Kap Ori	2.0650	30000.	82	46151	No
165	GOM_TRA_1PNPDE20101227_233352_000000463098_00016_46151_9790.N1	27-DEC-2010 23:33:52	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	46151	No
166	GOM_TRA_1PNPDE20101227_233629_000000583098_00016_46151_9791.N1	27-DEC-2010 23:36:29	Twilight_stray	58.000	14	58Alp Ori	0.87000	3000.0	116	46151	No
167	GOM_TRA_1PNPDE20101227_234002_000000513098_00016_46151_9792.N1	27-DEC-2010 23:40:02	Bright	50.500	44	24Gam Gem	1.9280	11000.	101	46151	No
168	GOM_TRA_1PNPDE20101227_234138_000000493098_00016_46151_9793.N1	27-DEC-2010 23:41:38	Bright	48.500	151	13Mu Gem	2.8900	3000.0	97	46151	No
169	GOM_TRA_1PNPDE20101227_234343_000000403098_00016_46151_9794.N1	27-DEC-2010 23:43:43	Bright	39.500	114	3lot Aur	2.6930	4600.0	79	46151	No
170	GOM_TRA_1PNPDE20101227_234534_000000413098_00016_46151_9795.N1	27-DEC-2010 23:45:34	Bright	41.000	107	37The Aur	2.6490	11000.	82	46151	No
171	GOM_TRA_1PNPDE20101227_234729_000000403098_00016_46151_9796.N1	27-DEC-2010 23:47:29	Bright	40.000	6	13Alp Aur	0.080000	3400.0	80	46151	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).

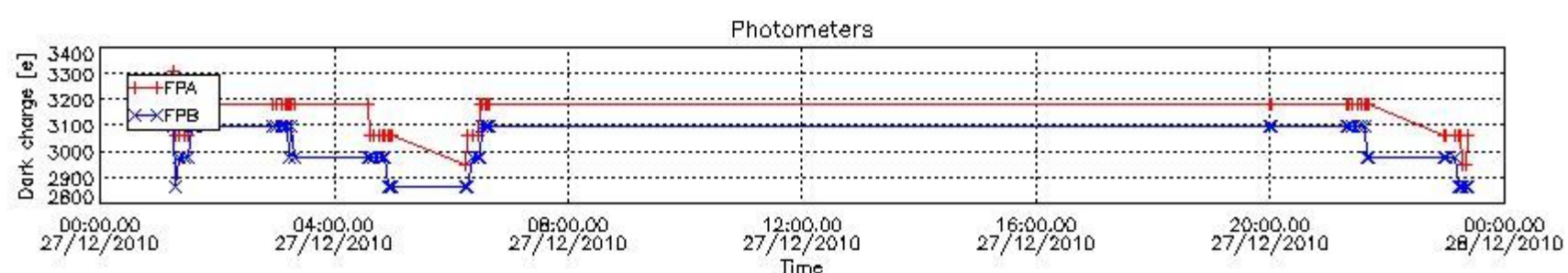
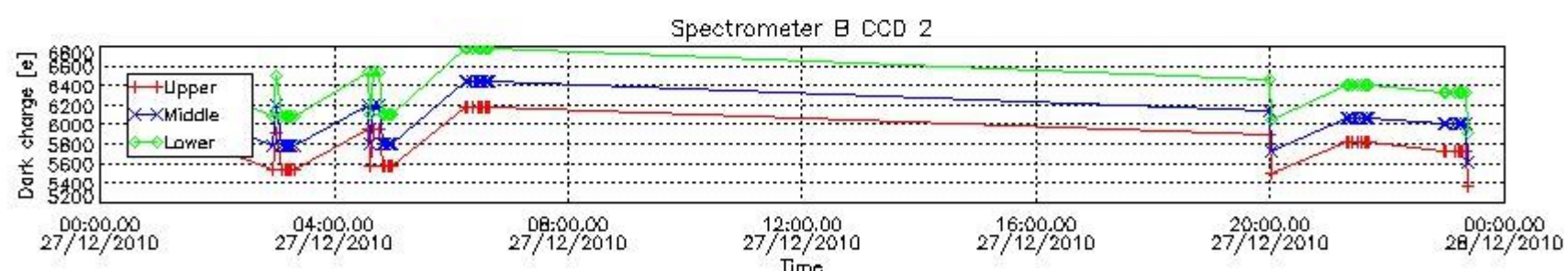
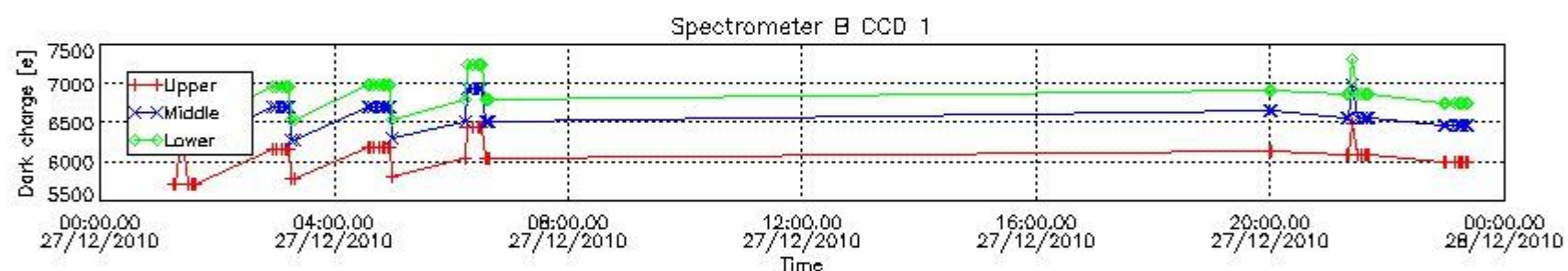
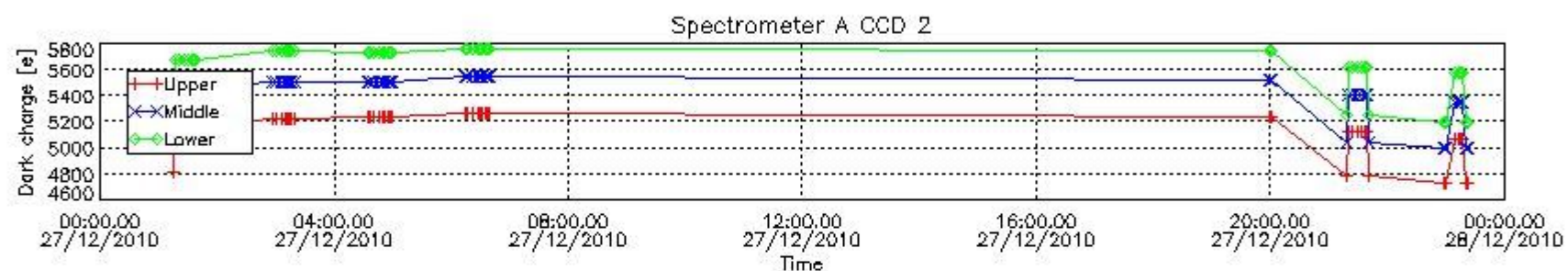
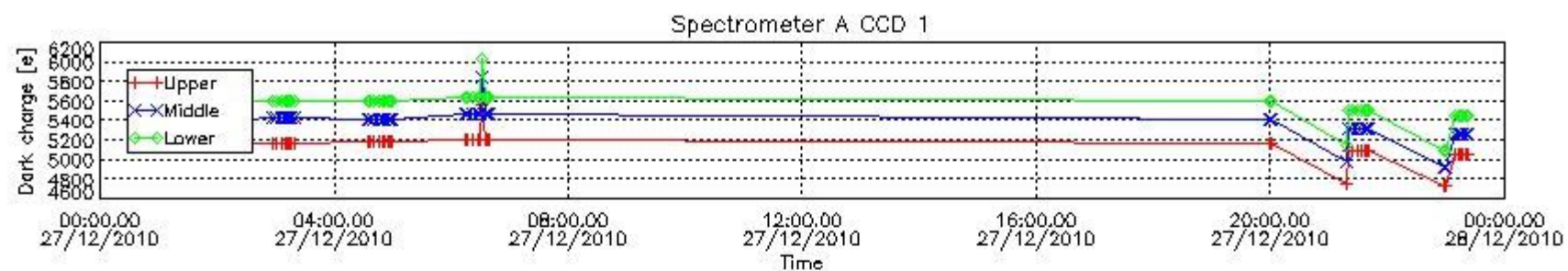
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20101227_005855_000000713098_00002_46137_9536.N1	DC map used
GOM_TRA_1PNPDE20101227_195904_000000483098_00014_46149_9743.N1	DC map used
GOM_TRA_1PNPDE20101227_200117_000000473098_00014_46149_9744.N1	DC map used
GOM_TRA_1PNPDE20101227_200410_000000503098_00014_46149_9745.N1	DC map used
GOM_TRA_1PNPDE20101227_200546_000000463098_00014_46149_9746.N1	DC map used
GOM_TRA_1PNPDE20101227_200820_000000553098_00014_46149_9747.N1	DC map used
GOM_TRA_1PNPDE20101227_201051_000000453098_00014_46149_9748.N1	DC map used
GOM_TRA_1PNPDE20101227_201324_000000463098_00014_46149_9749.N1	DC map used
GOM_TRA_1PNPDE20101227_201602_000000583098_00014_46149_9750.N1	DC map used
GOM_TRA_1PNPDE20101227_201935_000000593098_00014_46149_9751.N1	DC map used
GOM_TRA_1PNPDE20101227_202111_000000493098_00014_46149_9752.N1	DC map used
GOM_TRA_1PNPDE20101227_202316_000000393098_00014_46149_9753.N1	DC map used
GOM_TRA_1PNPDE20101227_202506_000000413098_00014_46149_9754.N1	DC map used
GOM_TRA_1PNPDE20101227_202701_000000413098_00014_46149_9755.N1	DC map used

GOM_TRA_1PNPDE20101227_204230_000000453098_00014_46149_9756.N1	DC map used
GOM_TRA_1PNPDE20101227_204730_000000673098_00014_46149_9757.N1	DC map used
GOM_TRA_1PNPDE20101227_205035_000000433098_00014_46149_9758.N1	DC map used
GOM_TRA_1PNPDE20101227_205426_000000603098_00014_46149_9759.N1	DC map used
GOM_TRA_1PNPDE20101227_205757_000000593098_00014_46149_9760.N1	DC map used
GOM_TRA_1PNPDE20101227_210148_000000723098_00014_46149_9761.N1	DC map used

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



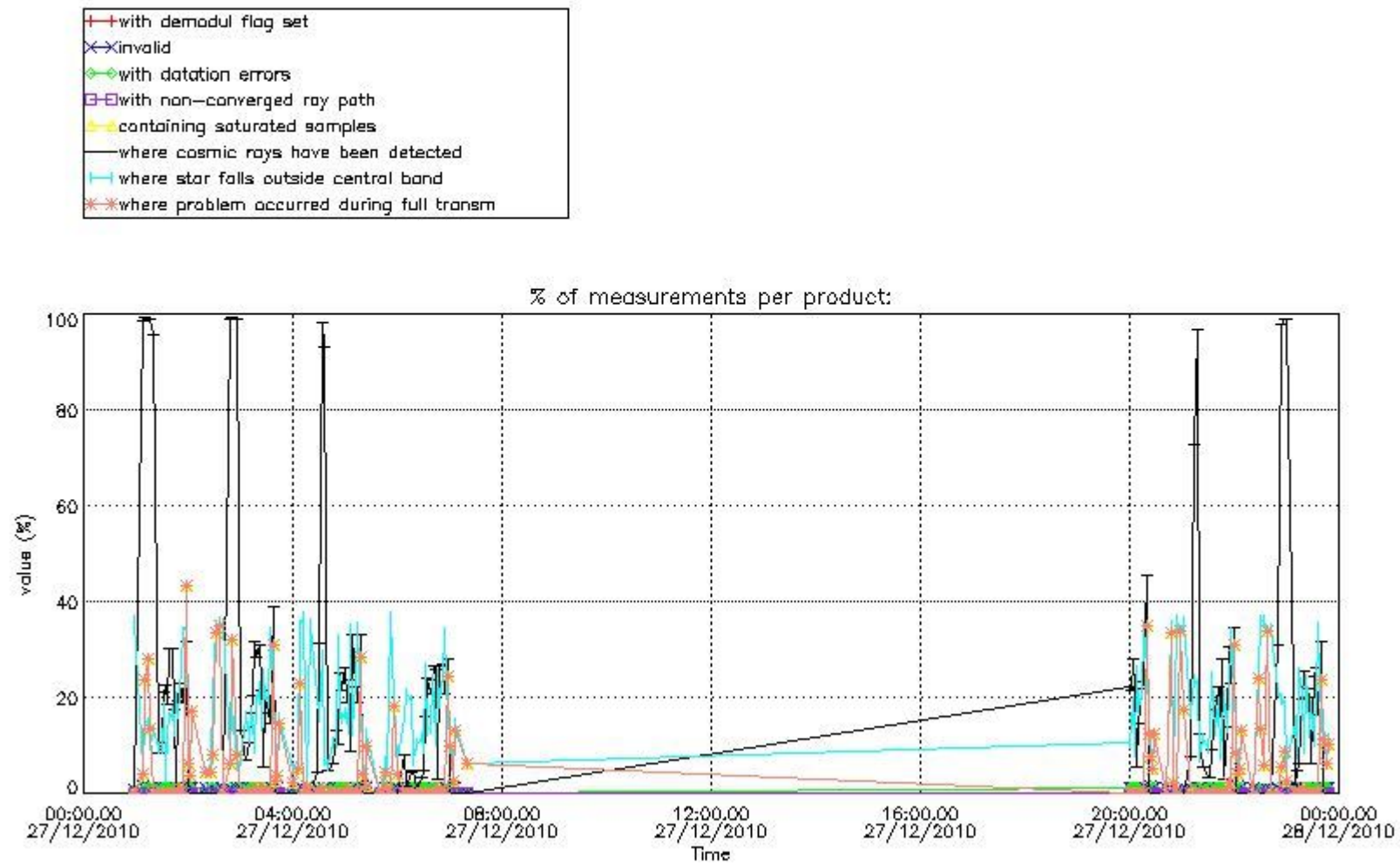
5. Demodulation flag and quality information monitoring

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.

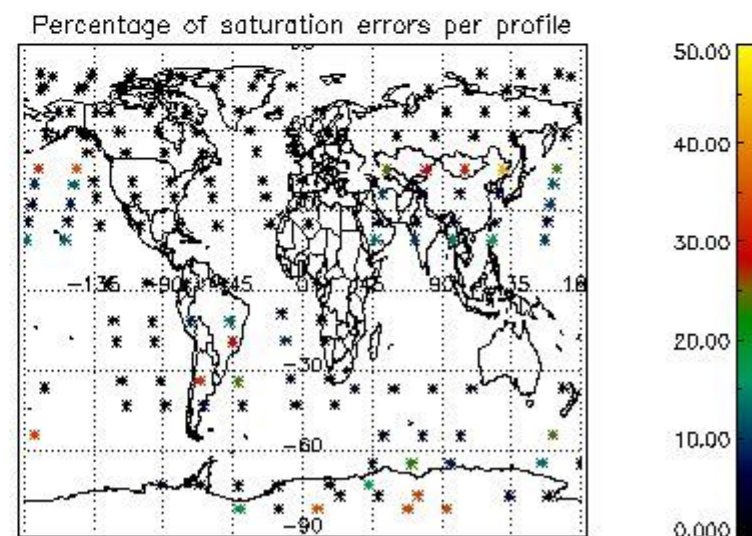
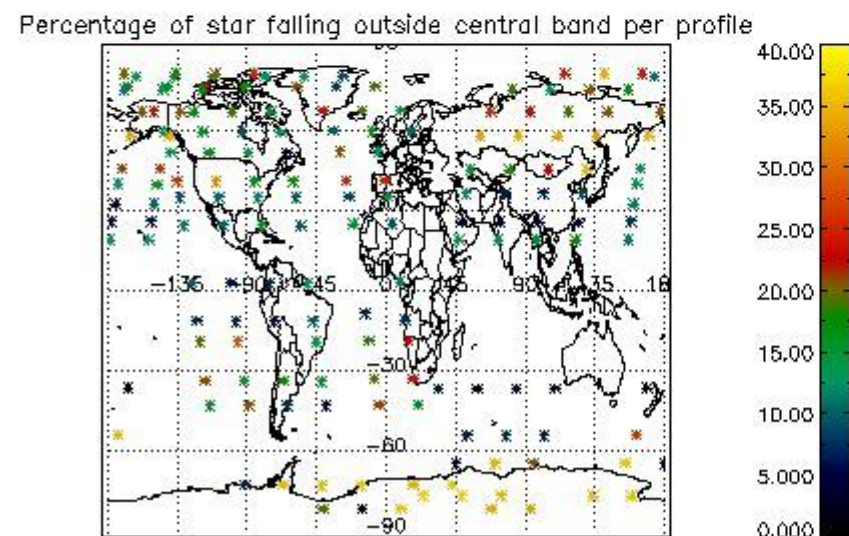
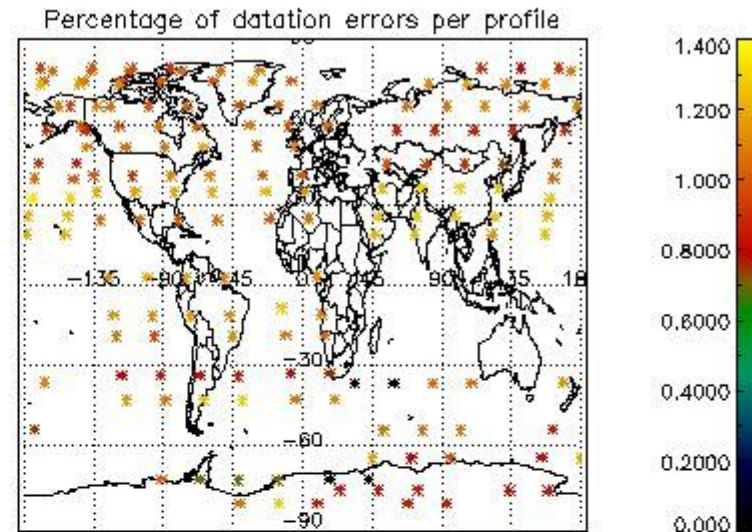
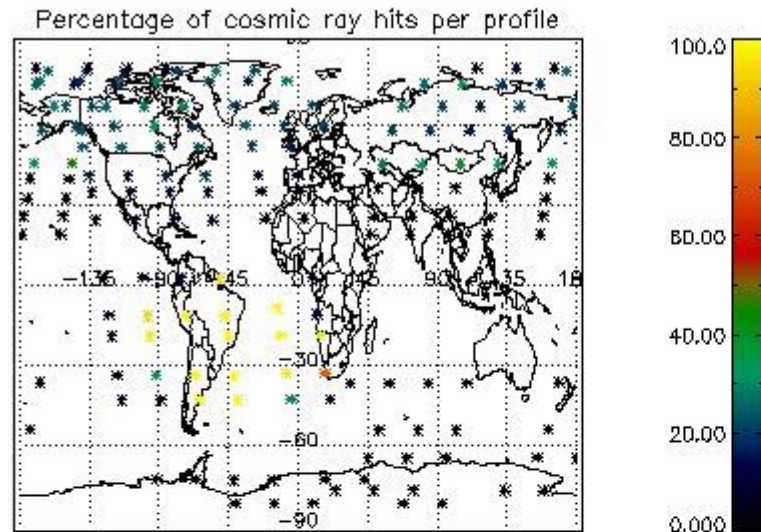
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	57.3099 %
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)



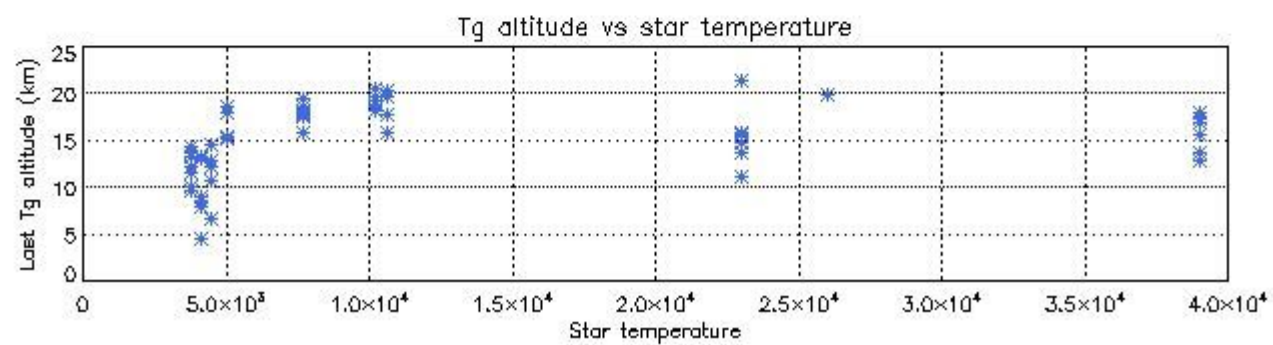
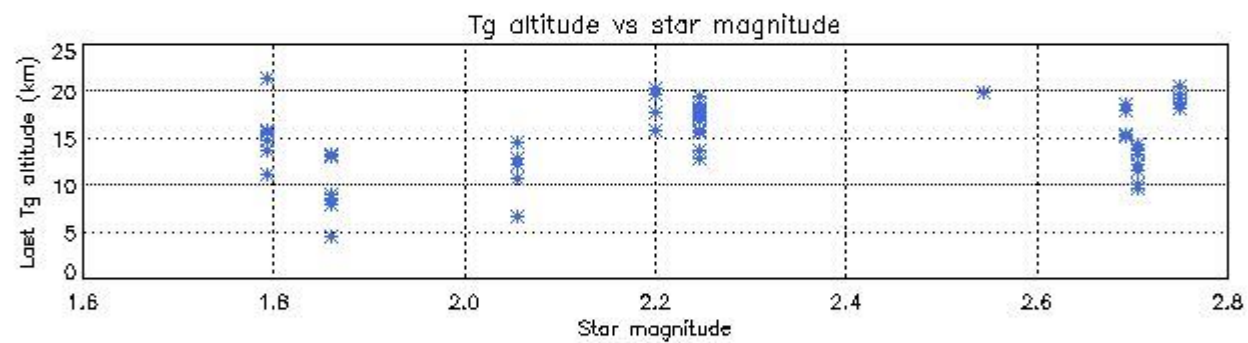
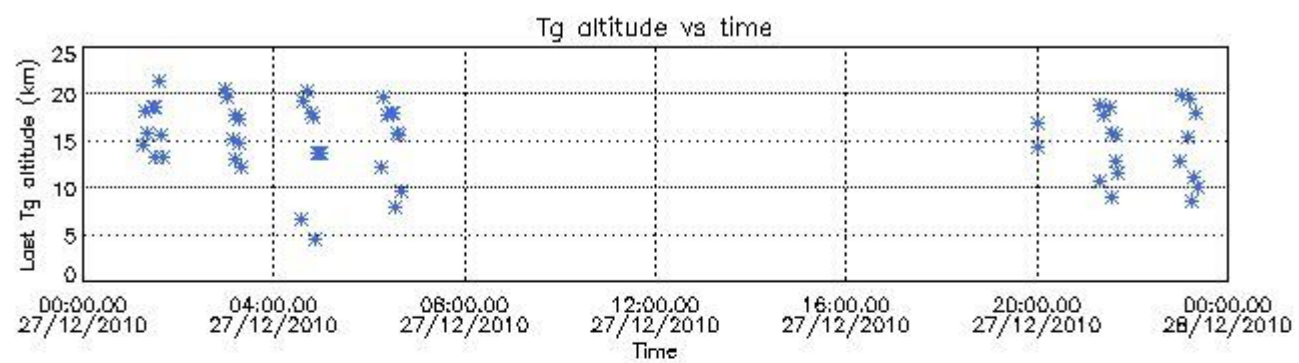
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.139	14.266	NaN
St. deviation:	3.8864	7.0792	NaN
Maximum:	21.319	28.516	NaN
Minimum:	4.3891	3.6196	NaN
Number of data:	54.000	69.000	NaN

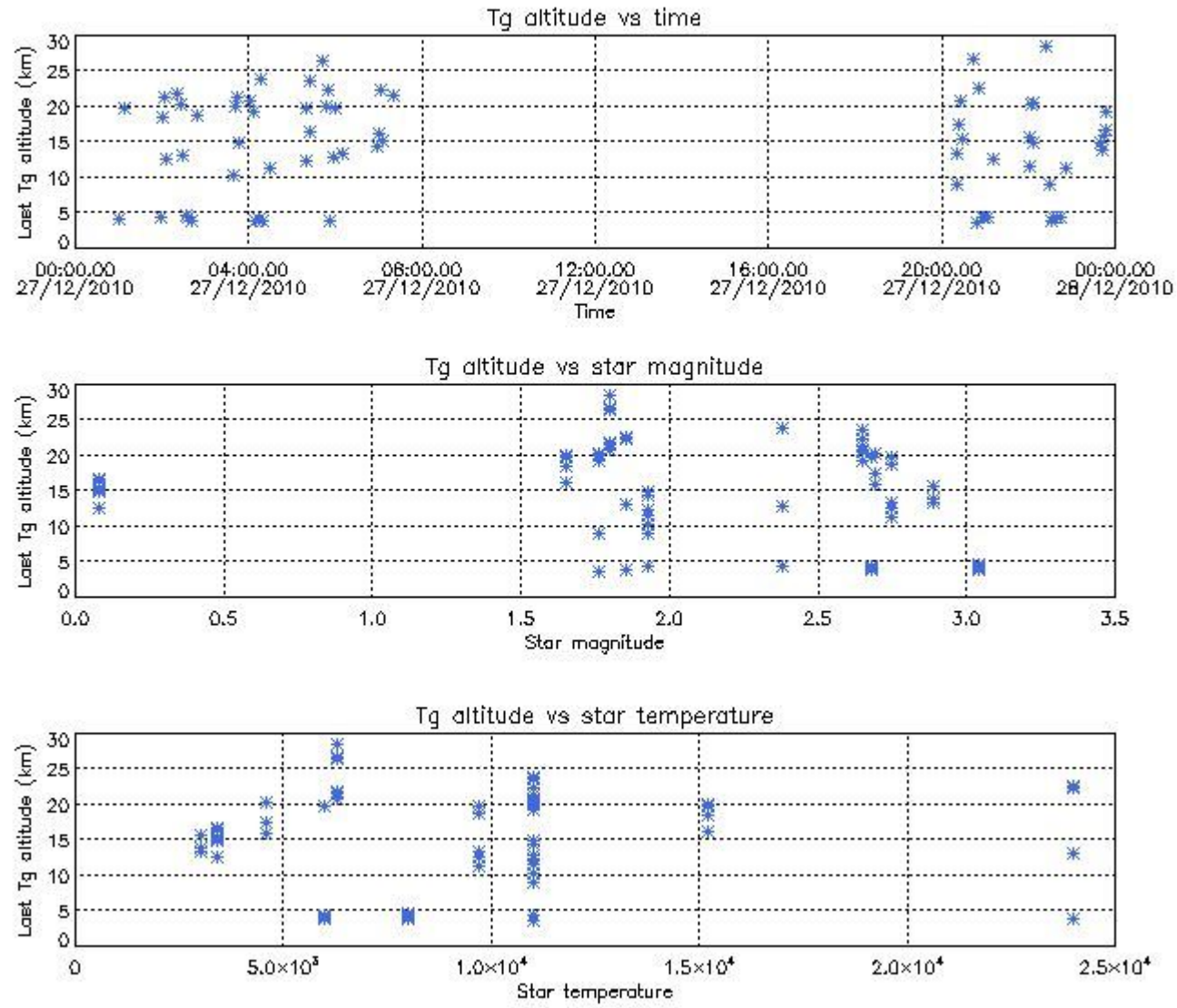
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

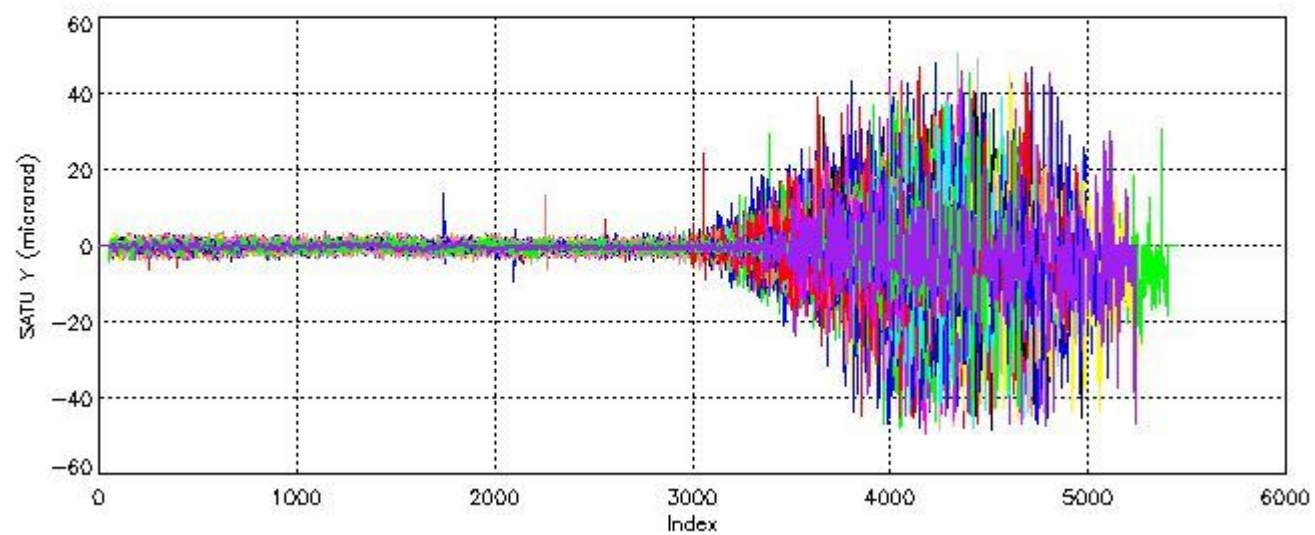
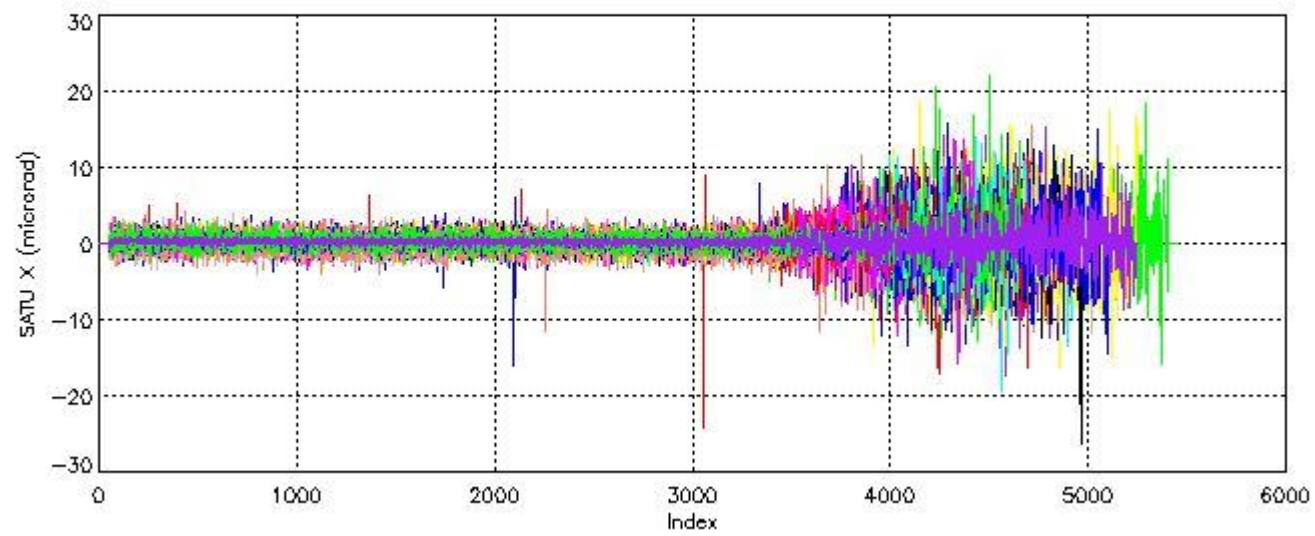


7. Star Acquisition and Tracking Unit (SATU)

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:	0.21432	-0.32160	0.089470	-0.37700
St. deviation:	0.56770	0.78617	1.1112	1.3254
Maximum:	5.3000	3.8000	6.1000	6.7000
Minimum:	-4.0000	-6.4000	-146.00	-146.00

Number of data:	56450.	56450.	69950.	69950.
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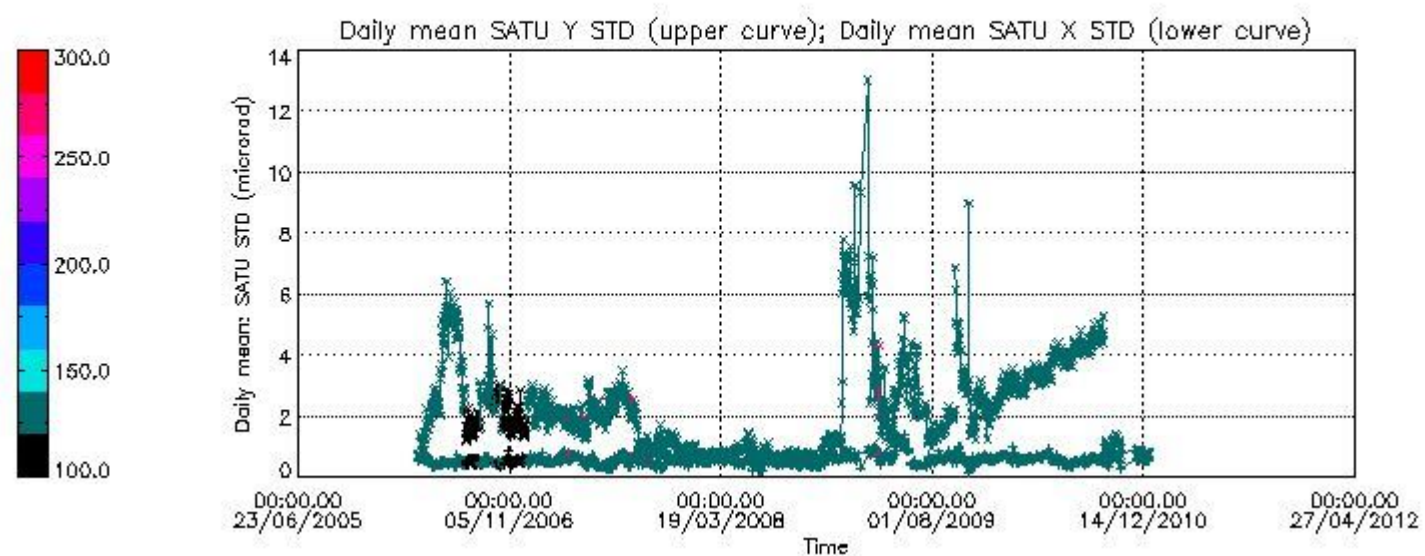
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

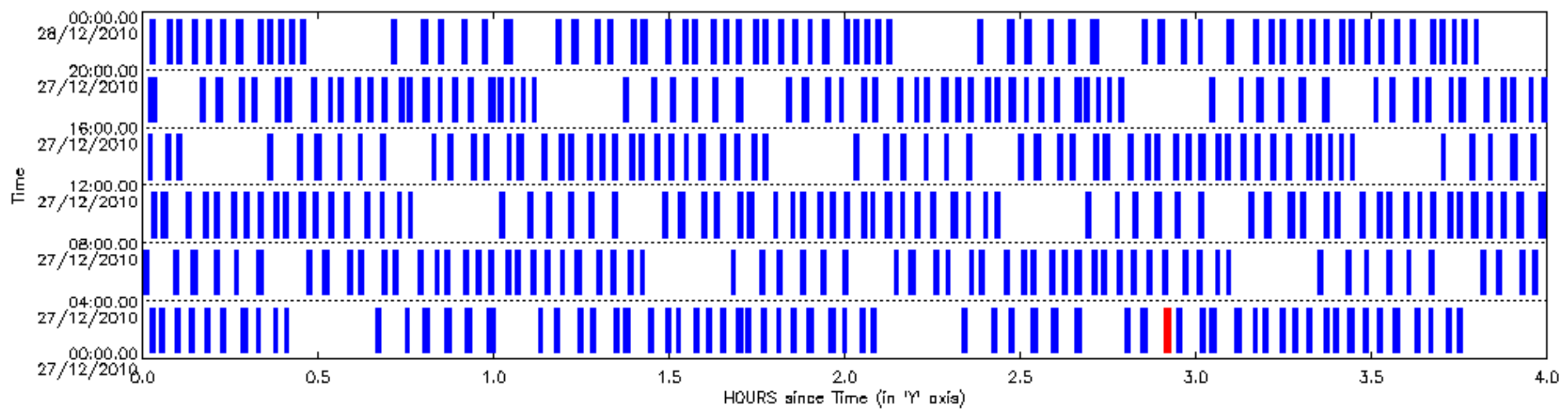
Lower curve: STD of SATU X axis

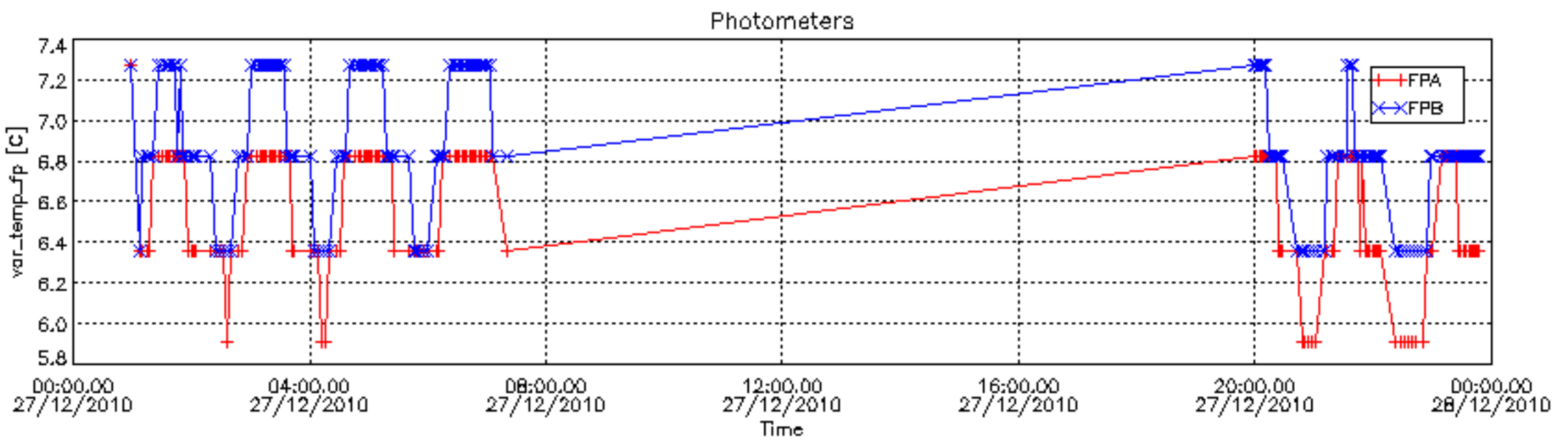
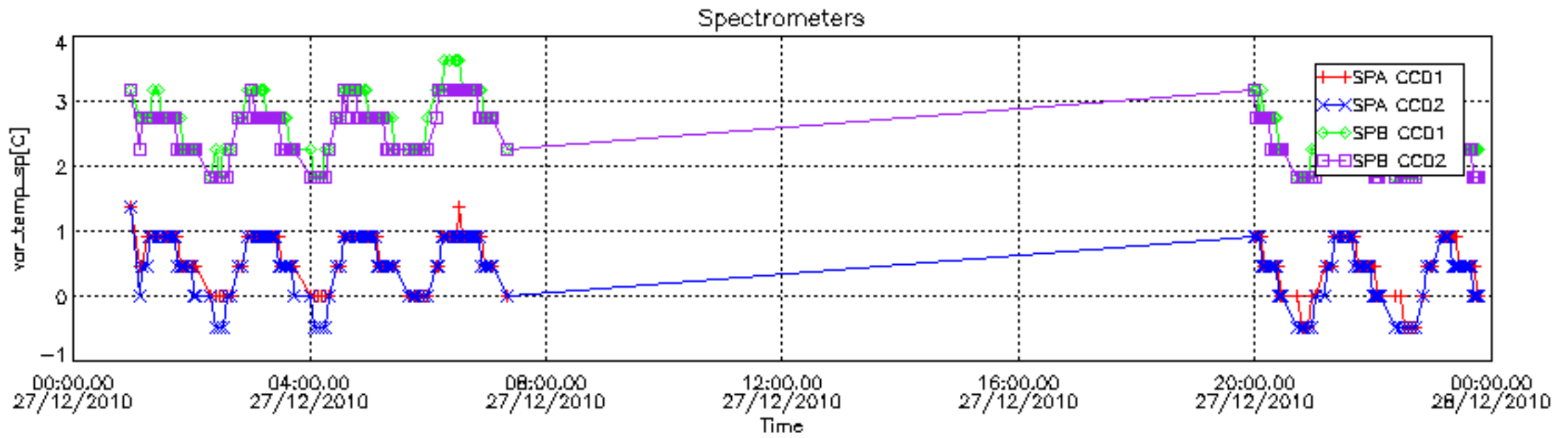


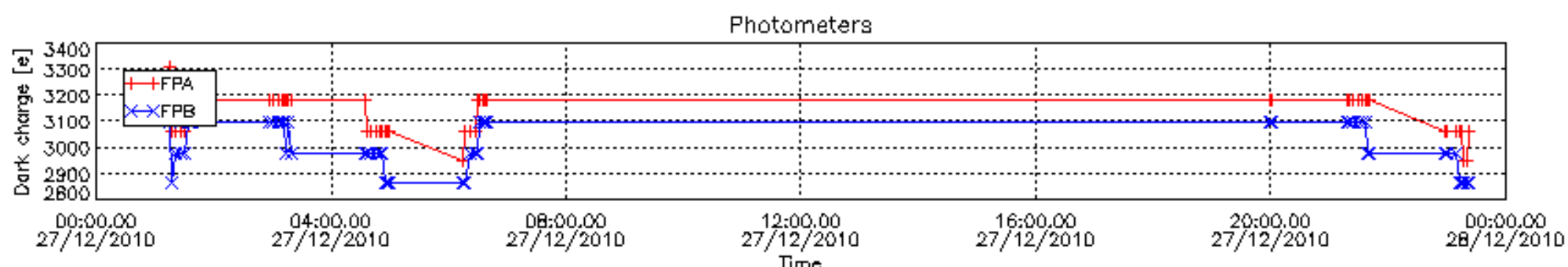
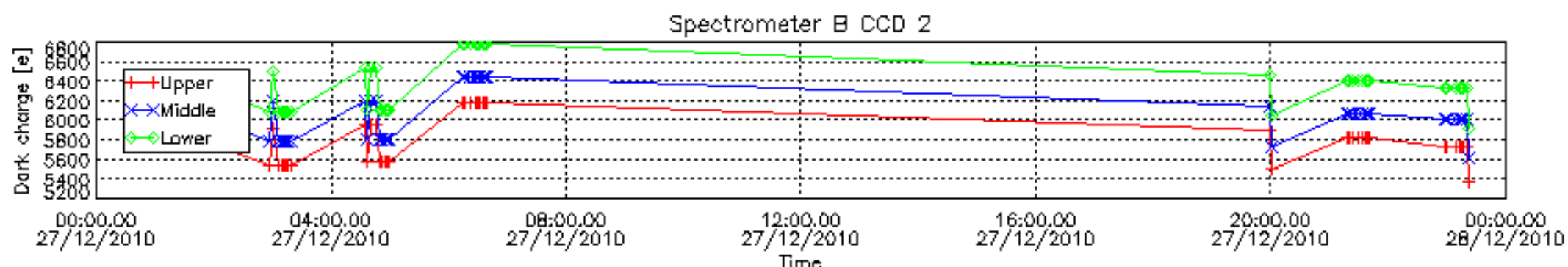
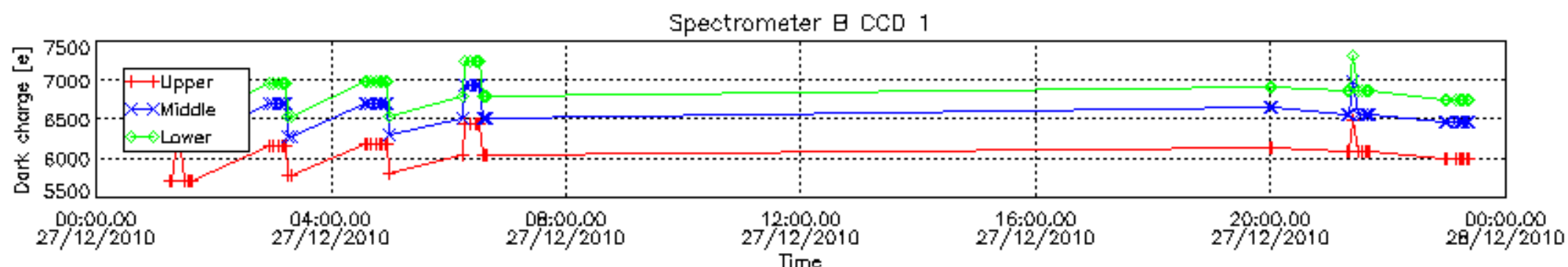
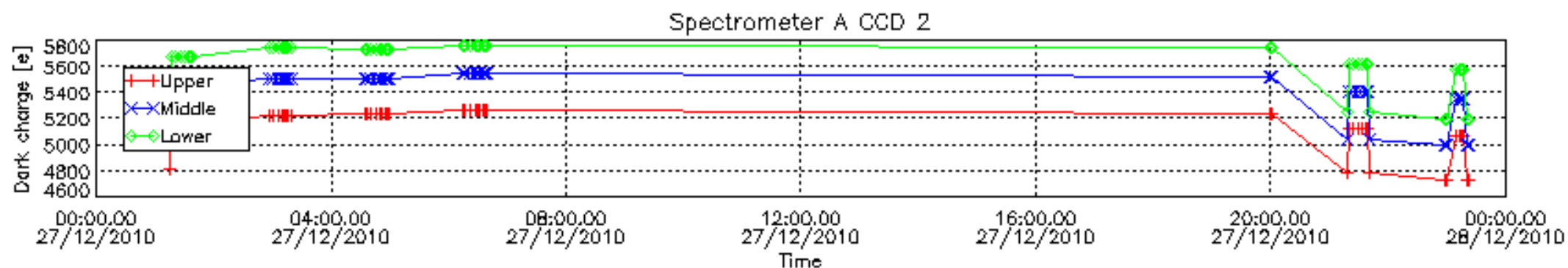
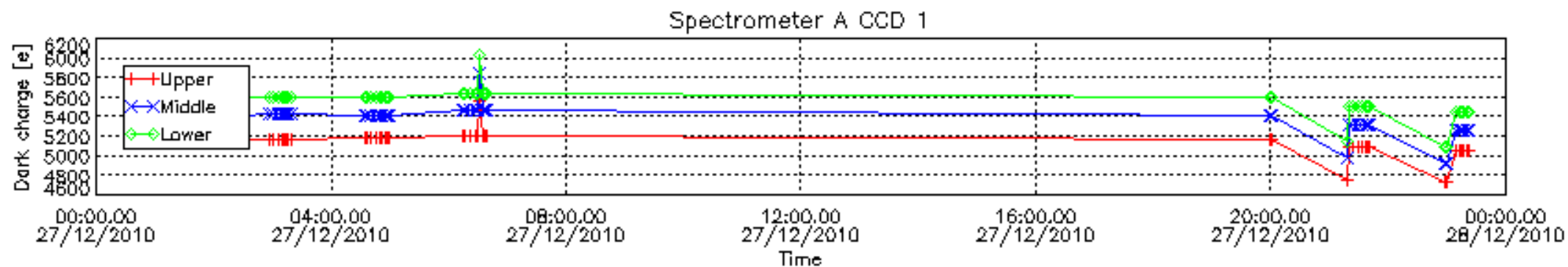
8. Auxiliary Data Files used for the production reported in section 2.4

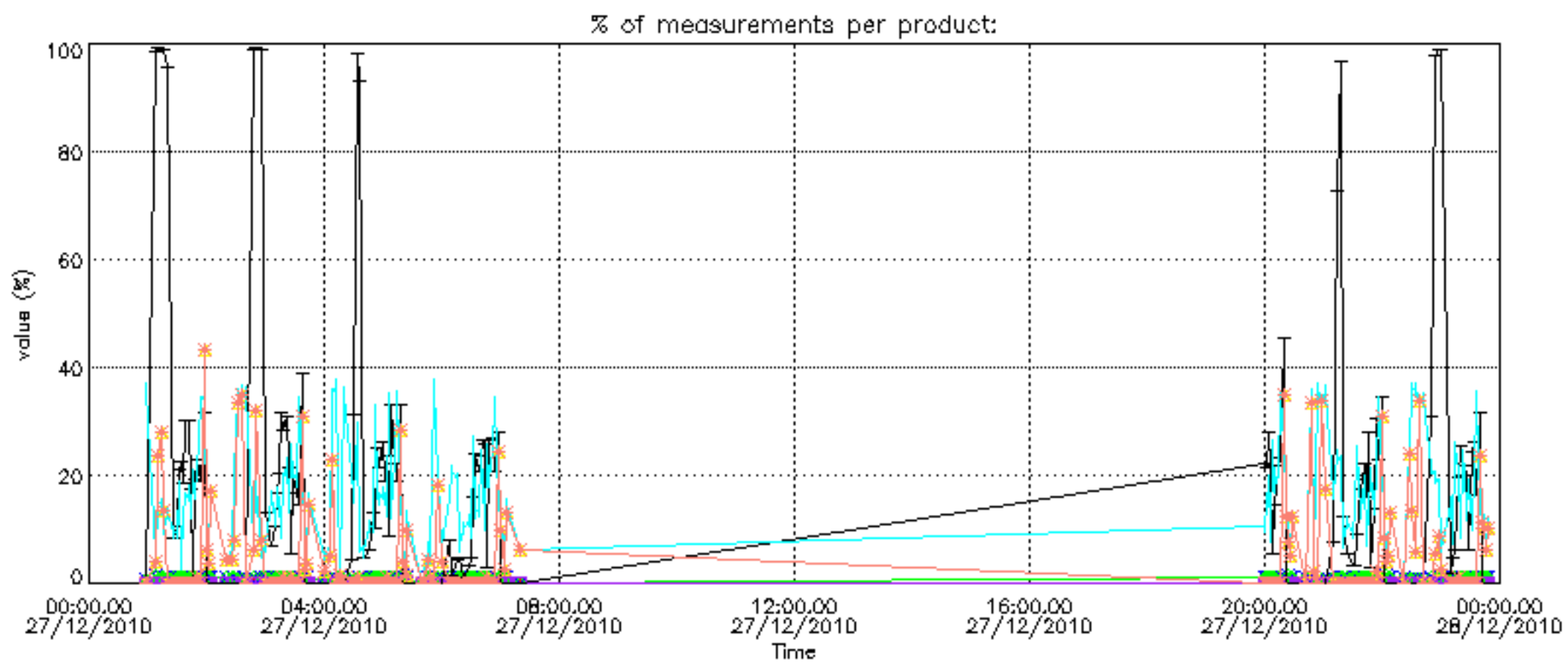
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	27-DEC-2010 00:58:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101220_121136_20101219_000000_20500101_000000	1	27-DEC-2010 00:58:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101227_083101_20101226_000000_20500101_000000	104	27-DEC-2010 19:59:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	27-DEC-2010 00:58:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-DEC-2010 00:58:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	27-DEC-2010 00:58:55
ECMWF_FILE	AUX_ECF_AXNECM20101226_054114_20101226_210000_20101227_090000	1	27-DEC-2010 00:58:55
ECMWF_FILE	AUX_ECF_AXNECM20101226_172115_20101227_030000_20101227_150000	49	27-DEC-2010 04:00:16
ECMWF_FILE	AUX_ECA_AXNECM20101227_052116_20101226_210000_20101227_090000	77	27-DEC-2010 05:45:27
ECMWF_FILE	AUX_ECF_AXNECM20101227_054116_20101227_150000_20101228_030000	104	27-DEC-2010 19:59:04
ECMWF_FILE	AUX_ECF_AXNECM20101227_054116_20101227_210000_20101228_090000	123	27-DEC-2010 21:10:34
OPTIONAL_ECMWF_FILE	MISSING	1	27-DEC-2010 00:58:55
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20101226_102114_20101225_191531_20110104_212924	1	27-DEC-2010 00:58:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101227_010458_000098833098_00002_46137_2210.N1	2	27-DEC-2010 01:07:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101227_035500_000060573098_00004_46139_2211.N1	49	27-DEC-2010 04:00:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101227_054116_000057383098_00005_46140_2212.N1	77	27-DEC-2010 05:45:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101227_195641_000038253098_00014_46149_2213.N1	104	27-DEC-2010 19:59:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101227_210026_000060573098_00014_46149_2214.N1	123	27-DEC-2010 21:10:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101227_224642_000057383098_00015_46150_2215.N1	151	27-DEC-2010 22:50:48

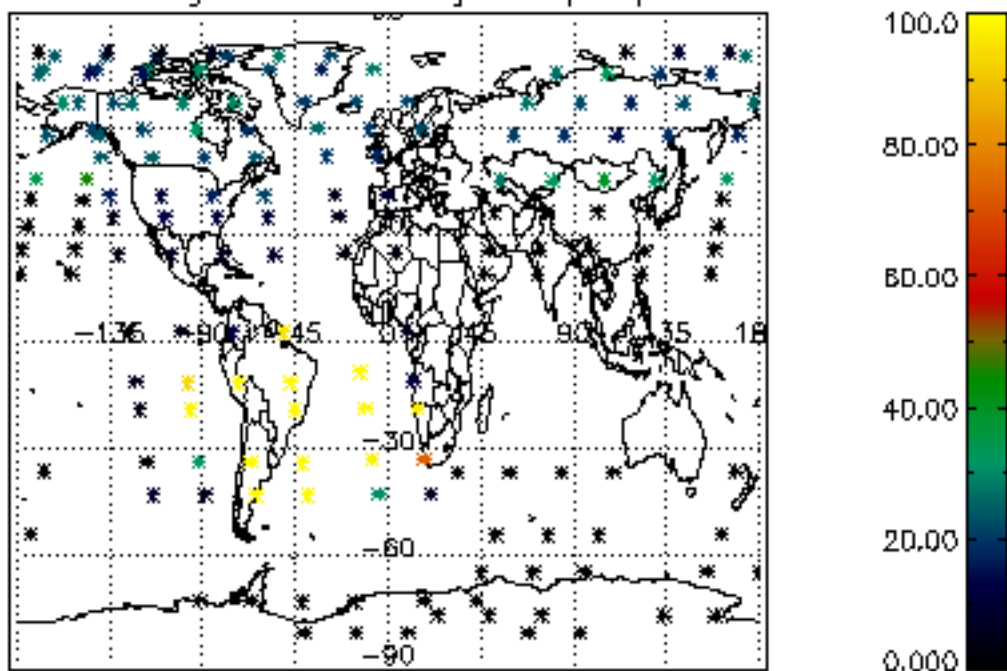




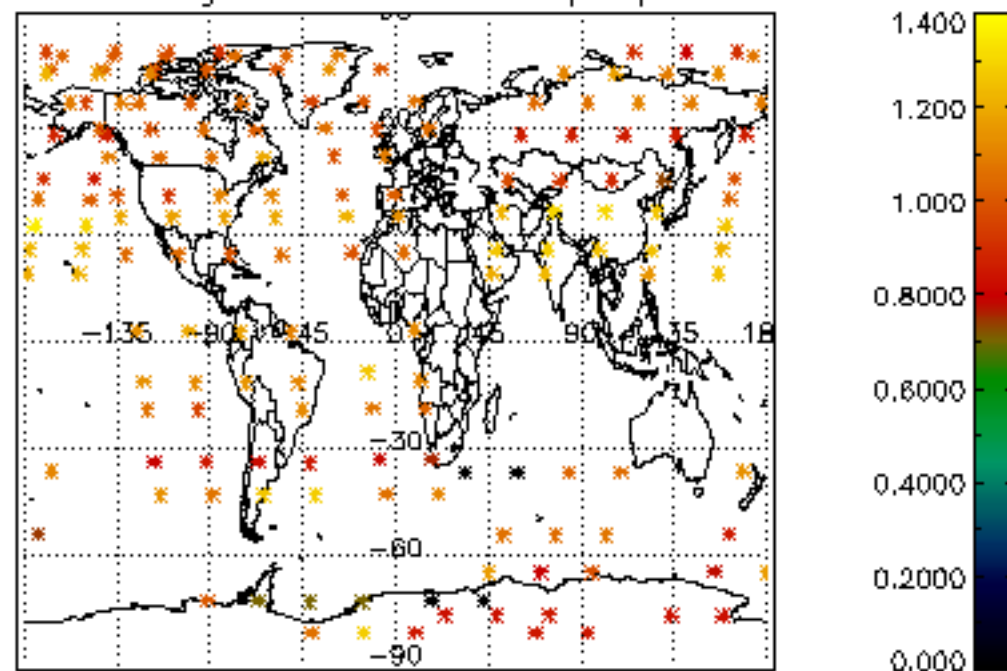




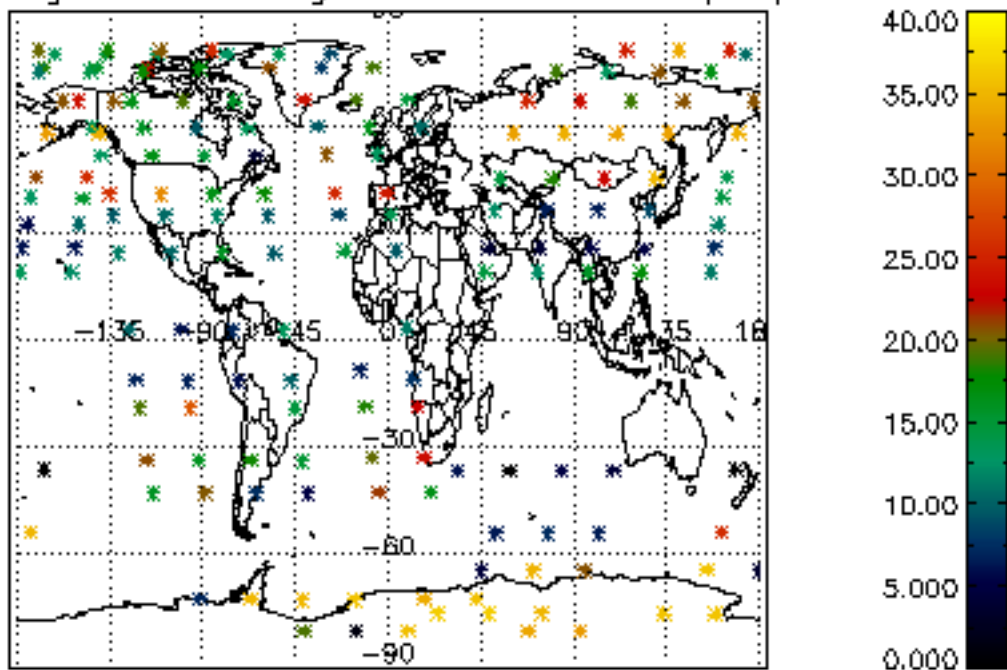
Percentage of cosmic ray hits per profile



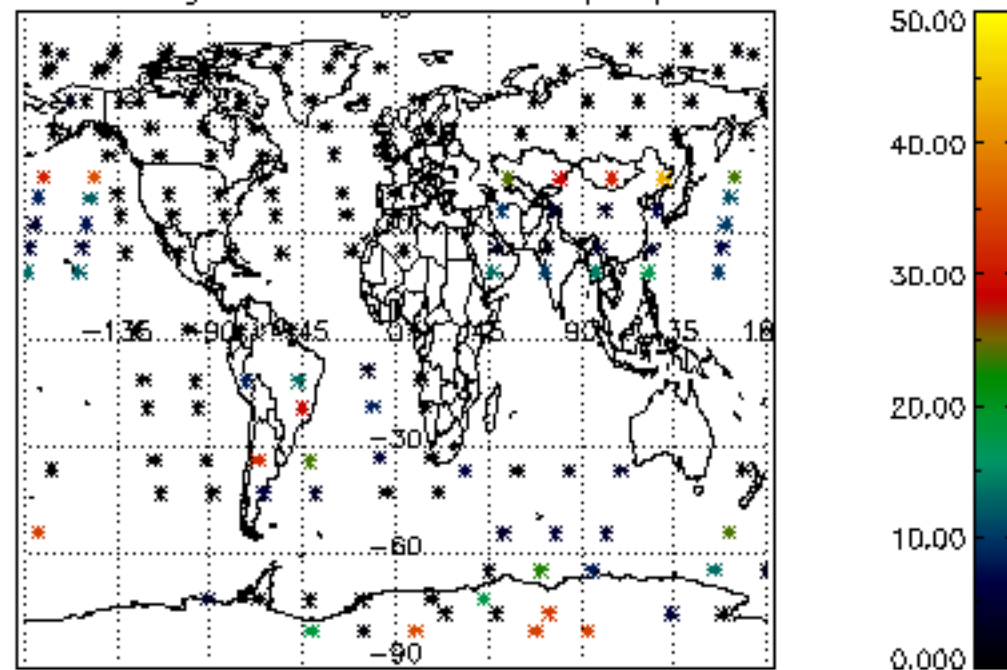
Percentage of datation errors per profile



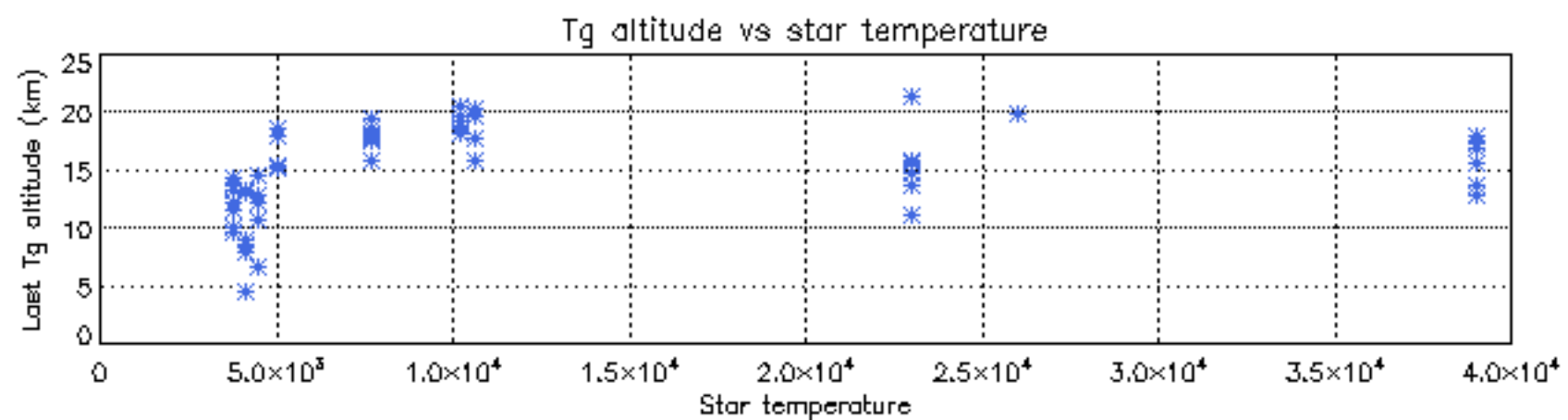
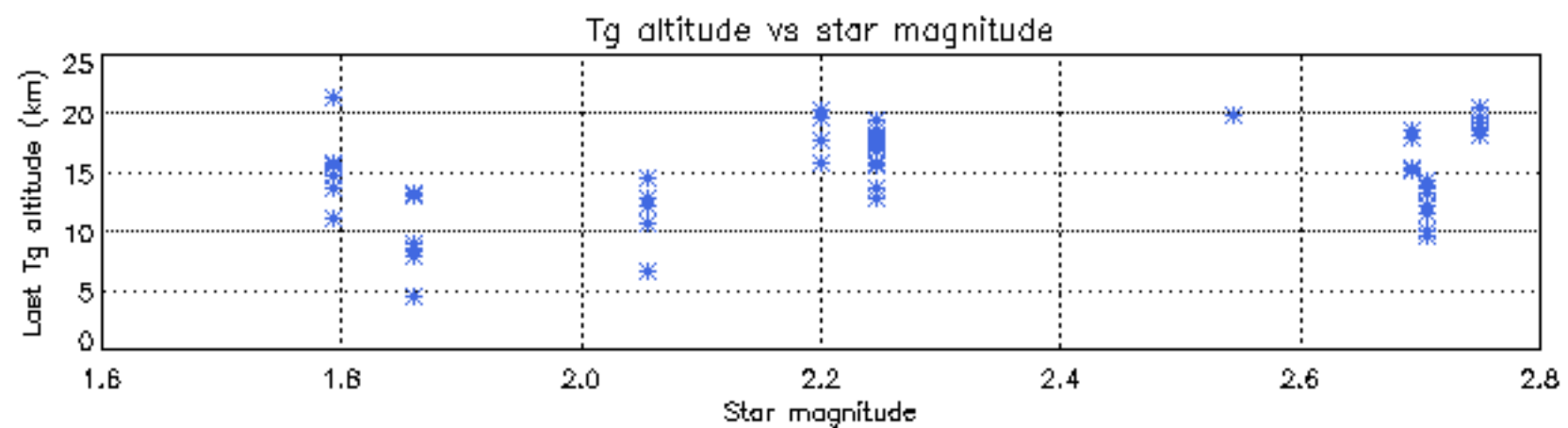
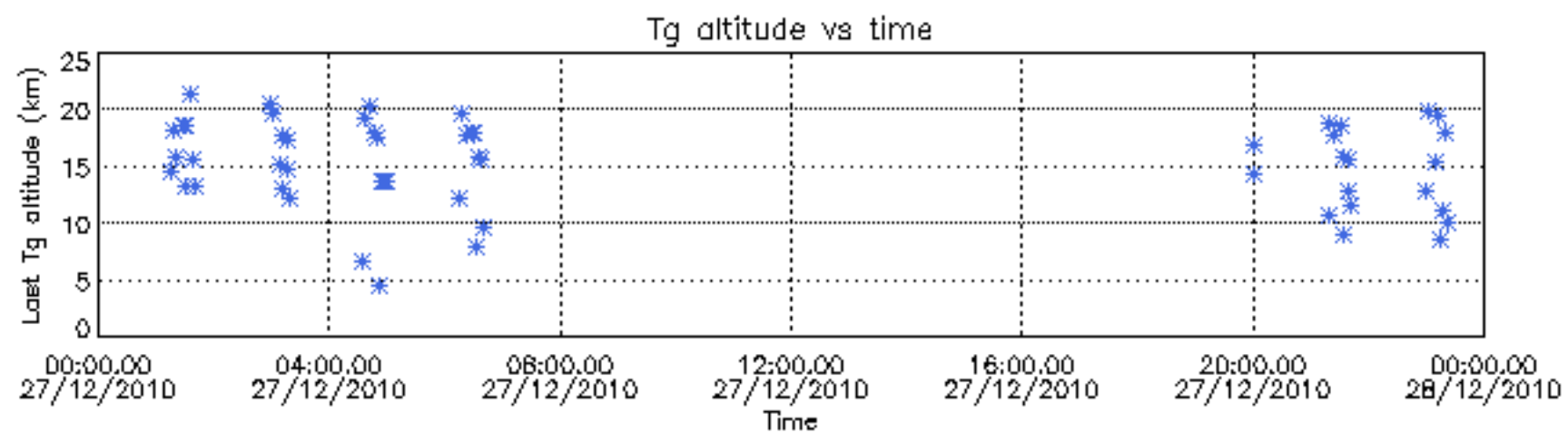
Percentage of star falling outside central band per profile



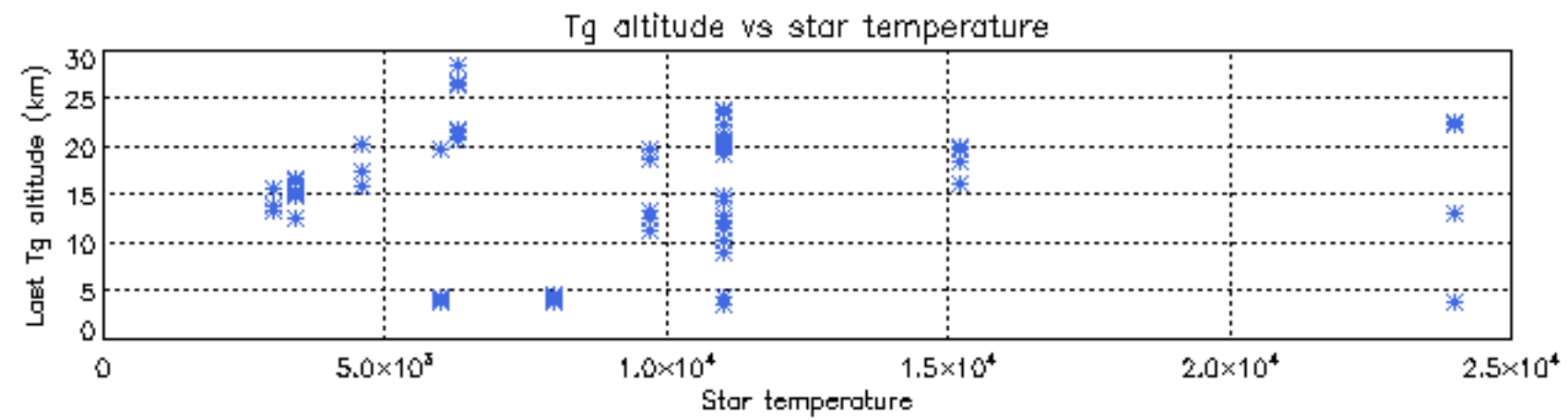
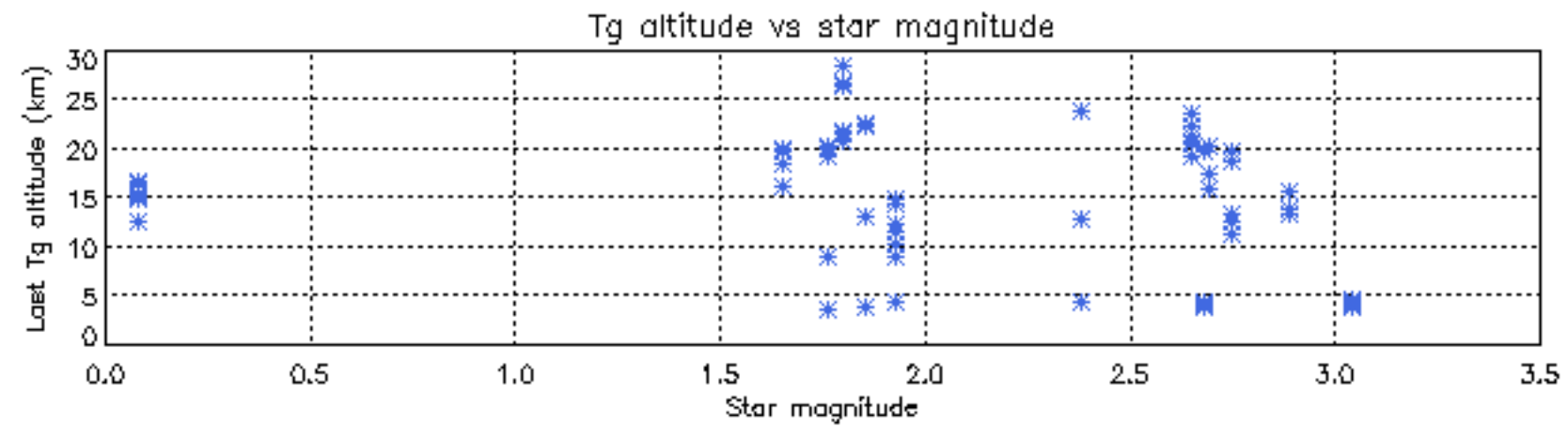
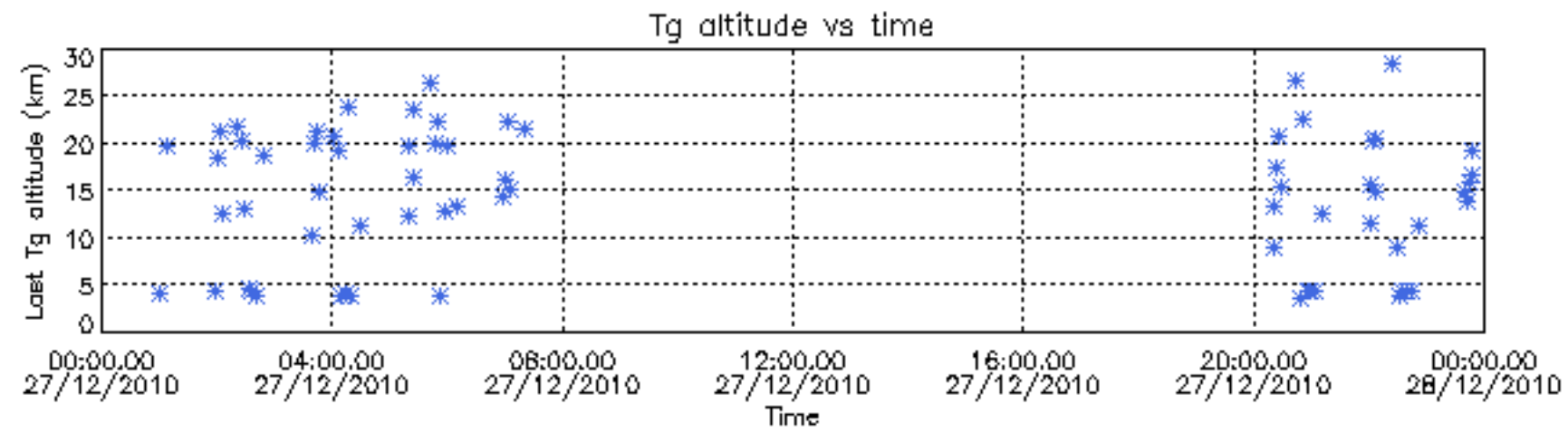
Percentage of saturation errors per profile

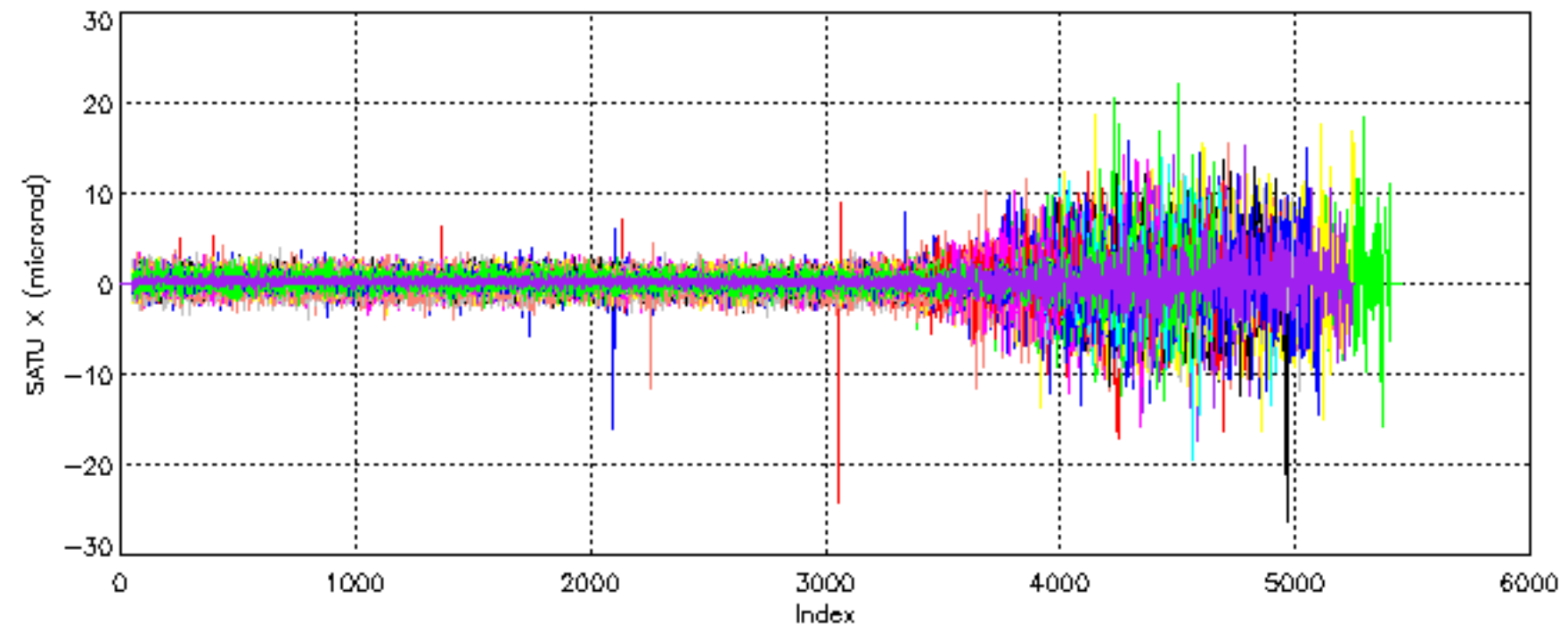


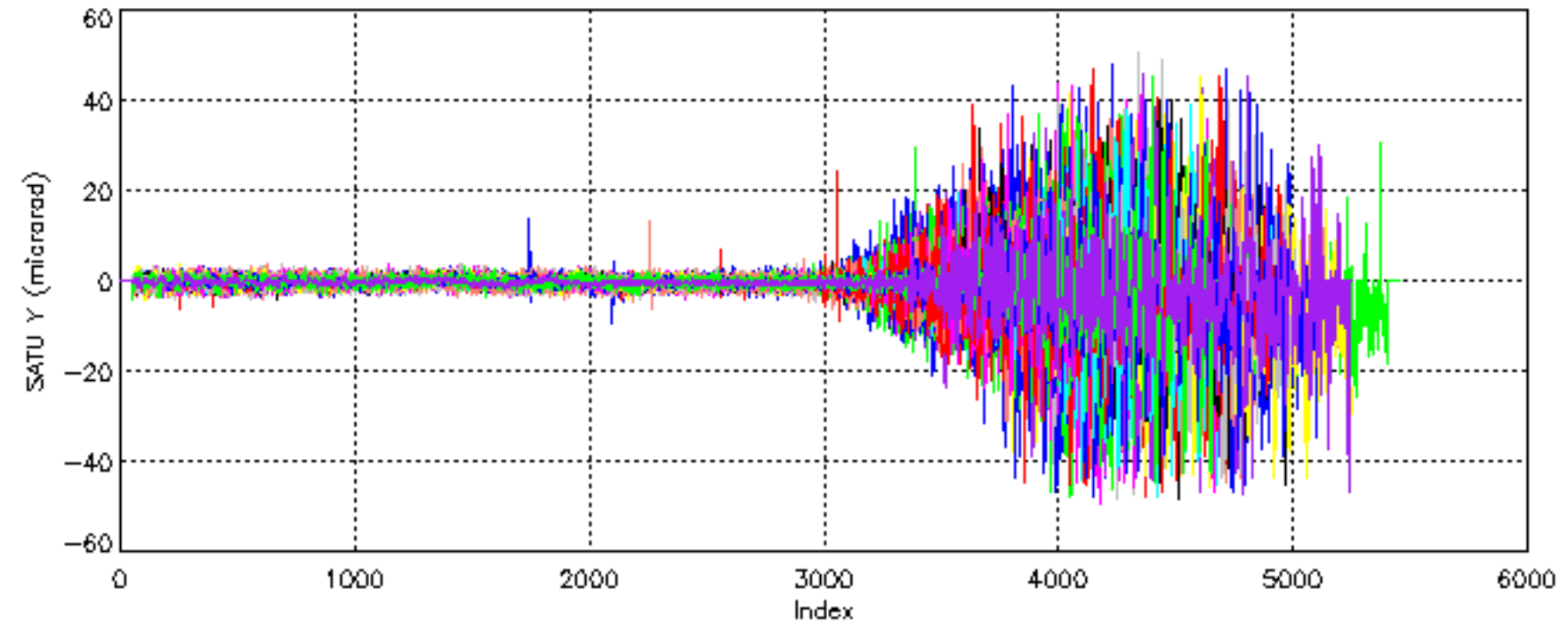
Tangent altitude at which the star is lost

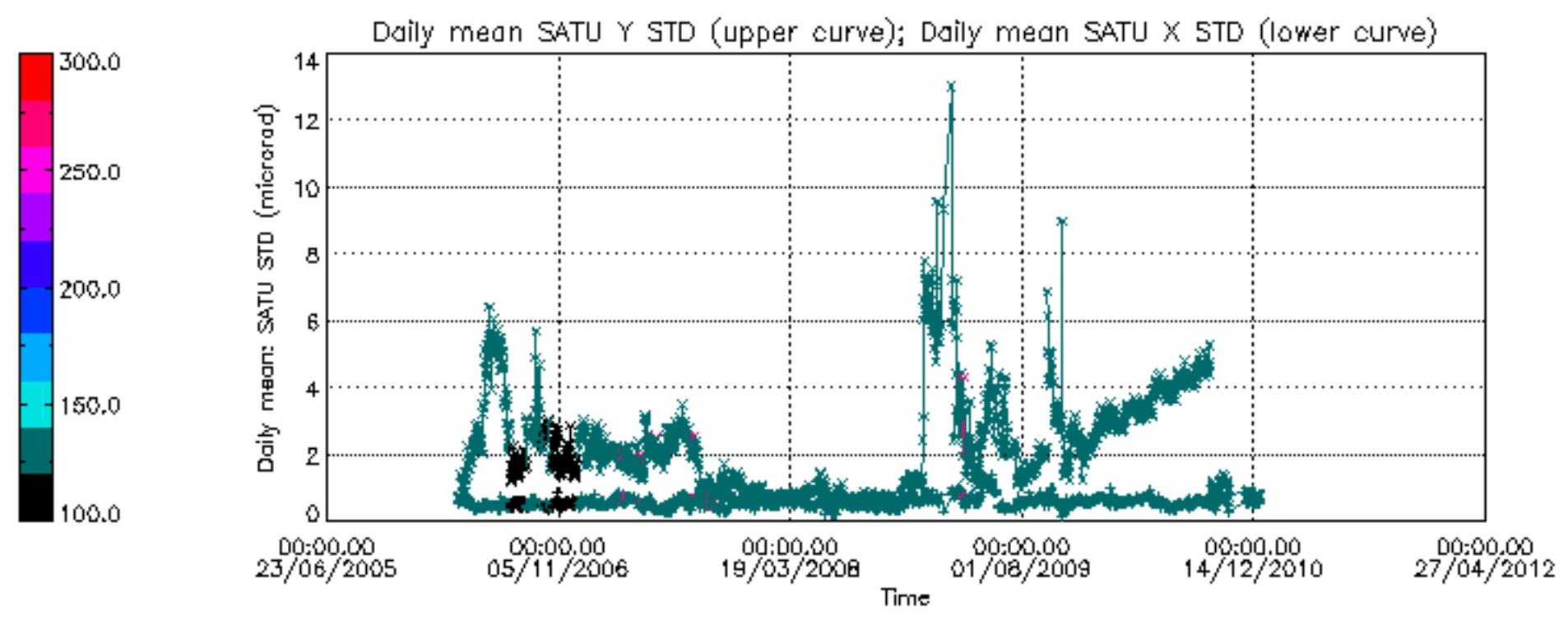


Tangent altitude at which the star is lost









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1; -581.2; 01-DEC-2010 00:22:35; Dark ; 49.0; 100; 4Gam Crv ; 2.58; 13100;occ; 98; 0;45763
 2; -485.7; 01-DEC-2010 00:24:11; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;45763
 3; 80.8; 01-DEC-2010 00:33:37; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;45764
 4; 404.8; 01-DEC-2010 00:39:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45764
 5; 595.6; 01-DEC-2010 00:42:12; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;45764
 6; 797.9; 01-DEC-2010 00:45:35; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;45764
 7; 907.6; 01-DEC-2010 00:47:24; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;45764
 8; 1181.6; 01-DEC-2010 00:51:58; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;45764
 9; 1523.2; 01-DEC-2010 00:57:40; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;45764
 10; 1739.4; 01-DEC-2010 01:01:16; Dark ; 68.5; 7; 19Bet Ori ; 0.10; 14000;occ; 137; 0;45764
 11; 2218.1; 01-DEC-2010 01:09:15; Bright; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;45764
 12; 2314.7; 01-DEC-2010 01:10:51; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;45764
 13; 2456.2; 01-DEC-2010 01:13:13; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;45764
 14; 2601.4; 01-DEC-2010 01:15:38; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;45764
 15; 2722.5; 01-DEC-2010 01:17:39; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45764
 16; 2831.7; 01-DEC-2010 01:19:28; Bright; 53.0; 6; 13Alp Aur ; 0.08; 3400;occ; 106; 0;45764
 17; 2940.4; 01-DEC-2010 01:21:17; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;45764
 18; 3801.3; 01-DEC-2010 01:35:38; Bright; 45.0; 36; 50Alp UMa ; 1.80; 6300;occ; 90; 0;45764
 19; 3896.8; 01-DEC-2010 01:37:13; Bright; 68.0; 82; 48Bet UMa ; 2.37; 10600;occ; 136; 0;45764
 20; 3994.3; 01-DEC-2010 01:38:51; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;45764
 21; 4165.0; 01-DEC-2010 01:41:42; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;45764
 22; 4326.2; 01-DEC-2010 01:44:23; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;45764
 23; 4896.6; 01-DEC-2010 01:53:53; Bright; 56.5; 62; 94Bet Leo ; 2.14; 9700;occ; 113; 0;45764
 24; 5095.3; 01-DEC-2010 01:57:12; Bright; 23.5; 121; 29Gam Vir ; 2.74; 7200;occ; 47; 0;45764

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 2; 81.8; 01-DEC-2010 02:13:52; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;45765
 3; 405.6; 01-DEC-2010 02:19:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45765
 4; 596.6; 01-DEC-2010 02:22:27; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45765
 5; 798.6; 01-DEC-2010 02:25:49; Dark ; 58.0; 2; Alp Car ;-0.74; 7000;occ; 116; 0;45765
 6; 908.6; 01-DEC-2010 02:27:39; Dark ; 64.0; 117; Pi Pup ; 2.71; 3800;occ; 128; 0;45765
 7; 1182.1; 01-DEC-2010 02:32:13; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;45765
 8; 1523.4; 01-DEC-2010 02:37:54; Dark ; 55.0; 101; 11Alp Lep ; 2.58; 7000;occ; 110; 0;45765
 9; 1739.4; 01-DEC-2010 02:41:30; Dark ; 59.0; 7; 19Bet Ori ; 0.10; 14000;occ; 118; 0;45765
 10; 2217.8; 01-DEC-2010 02:49:28; Bright; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;45765
 11; 2314.7; 01-DEC-2010 02:51:05; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;45765
 12; 2456.0; 01-DEC-2010 02:53:27; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;45765
 13; 2601.2; 01-DEC-2010 02:55:52; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;45765
 14; 2722.2; 01-DEC-2010 02:57:53; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45765
 15; 2831.1; 01-DEC-2010 02:59:42; Bright; 53.5; 6; 13Alp Aur ; 0.08; 3400;occ; 107; 0;45765
 16; 2939.5; 01-DEC-2010 03:01:30; Bright; 41.5; 42; 34Bet Aur ; 1.90; 10200;occ; 83; 0;45765

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1; -2213.0; 01-DEC-2010 03:15:52; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0;45765
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 3; -2019.8; 01-DEC-2010 03:19:05; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;45765
 4; -1849.2; 01-DEC-2010 03:21:55; Bright; 67.0; 174; 52Psi UMa ; 3.00; 4400;occ; 134; 0;45765
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 7; -918.1; 01-DEC-2010 03:37:27; Bright; 45.0; 121; 29Gam Vir ; 2.74; 7200;occ; 90; 0;45765
 8; -579.5; 01-DEC-2010 03:43:05; Dark ; 44.0; 100; 4Gam Crv ; 2.58; 13100;occ; 88; 0;45765
 9; -484.1; 01-DEC-2010 03:44:41; Dark ; 47.0; 171; 2Eps Crv ; 3.00; 4250;occ; 94; 0;45765
 10; 82.7; 01-DEC-2010 03:54:07; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;45766
 11; 406.4; 01-DEC-2010 03:59:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45766
 12; 597.5; 01-DEC-2010 04:02:42; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45766
 13; 799.1; 01-DEC-2010 04:06:04; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;45766
 14; 909.5; 01-DEC-2010 04:07:54; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;45766
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 18; 2217.7; 01-DEC-2010 04:29:42; Bright; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;45766
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 20; 2456.0; 01-DEC-2010 04:33:41; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;45766
 21; 2601.3; 01-DEC-2010 04:36:06; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;45766
 22; 2722.5; 01-DEC-2010 04:38:07; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45766
 23; 2830.6; 01-DEC-2010 04:39:55; Bright; 51.0; 6; 13Alp Aur ; 0.08; 3400;occ; 102; 0;45766
 24; 2938.8; 01-DEC-2010 04:41:44; Bright; 46.5; 42; 34Bet Aur ; 1.90; 10200;occ; 93; 0;45766

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 21; 5434.0; 07-DEC-2010 18:25:18; Dark ; 43.5; 169; 46Gam Hya ; 2.99; 4700;occ; 87; 0;45860
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 23; 5616.4; 07-DEC-2010 18:28:20; Dark ; 53.5; 171; 2Eps Crv ; 3.00; 4250;occ; 107; 0;45860
 24; 5970.6; 07-DEC-2010 18:34:14; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;45860
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 26; 6499.0; 07-DEC-2010 18:43:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45861
 27; 6692.2; 07-DEC-2010 18:46:16; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45861
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 4; 1735.8; 07-DEC-2010 19:03:54; Dark ; 54.0; 7; 19Bet Ori ; 0.10; 14000;occ; 108; 0;45861
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 6; 2041.8; 07-DEC-2010 19:09:00; Dark ; 53.0; 27; 24Gam Ori ; 1.64; 26000;occ; 106; 0;45861
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23; 5617.4; 07-DEC-2010 20:08:35; Dark ; 55.0; 171; 2Eps Crv ; 3.00; 4250;occ; 110; 0;45861
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 13; 1523.2; 15-DEC-2010 00:44:39; Dark ; 54.0; 47; 2Bet CMA ; 1.98; 28000;occ; 108; 0;45965
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 23; 3685.5; 17-DEC-2010 00:07:14; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;45993
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 21; 1526.2; 16-DEC-2010 08:29:09; Dark ; 53.5; 47; 2Bet CMa ; 1.98; 28000;occ; 107; 0;45984

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 17; 5514.8; 16-DEC-2010 09:35:38; Dark ; 49.0; 169; 46Gam Hya ; 2.99; 4700;occ; 98; 0;45984
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 27; 7075.1; 16-DEC-2010 10:01:38; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;45985
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28; 7077.0; 16-DEC-2010 15:02:22; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;45988
29; 7270.2; 16-DEC-2010 15:05:35; Dark ; 51.5; 23; 21Eps CMa ; 1.50; 26000;occ; 103; 0;45988
30; 7376.7; 16-DEC-2010 15:07:21; Dark ; 24.5; 179; 240mi2CMa ; 3.03; 24000;occ; 49; 0;45988

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1; 1526.8; 16-DEC-2010 15:10:06; Dark ; 53.0; 47; 2Bet CMa ; 1.98; 28000;occ; 106; 0;45988
2; 1738.5; 16-DEC-2010 15:13:37; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;45988
3; 1871.8; 16-DEC-2010 15:15:51; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;45988
4; 2057.8; 16-DEC-2010 15:18:57; Dark ; 59.0; 14; 58Alp Ori ; 0.87; 3000;occ; 118; 0;45988
5; 2176.7; 16-DEC-2010 15:20:55; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;45988
6; 2307.2; 16-DEC-2010 15:23:06; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;45988
7; 2430.1; 16-DEC-2010 15:25:09; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;45988
8; 2643.2; 16-DEC-2010 15:28:42; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;45988
9; 2773.4; 16-DEC-2010 15:30:52; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;45988
10; 3685.8; 16-DEC-2010 15:46:05; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;45988
11; 3960.0; 16-DEC-2010 15:50:39; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;45988
12; 4116.2; 16-DEC-2010 15:53:15; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;45988
13; 4317.9; 16-DEC-2010 15:56:37; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;45988
14; 4510.7; 16-DEC-2010 15:59:50; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0;45988
15; 4710.3; 16-DEC-2010 16:03:09; Bright; 61.0; 111; 8Eta Boo ; 2.68; 6000;occ; 122; 0;45988
16; 4950.1; 16-DEC-2010 16:07:09; Bright; 33.0; 138; 47Eps Vir ; 2.83; 4700;occ; 66; 0;45988
17; 5308.3; 16-DEC-2010 16:13:07; Dark ; 55.0; 15; 67Alp Vir ; 0.98; 28000;occ; 110; 0;45988
18; 5518.0; 16-DEC-2010 16:16:37; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;45988
19; 5669.8; 16-DEC-2010 16:19:09; Dark ; 53.5; 106; 9Bet Crv ; 2.65; 5600;occ; 107; 0;45988
20; 5766.9; 16-DEC-2010 16:20:46; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;45988
21; 5955.9; 16-DEC-2010 16:23:55; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;45988
22; 6053.9; 16-DEC-2010 16:25:33; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;45989
23; 6285.4; 16-DEC-2010 16:29:24; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;45989
24; 6509.7; 16-DEC-2010 16:33:08; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;45989
25; 6598.5; 16-DEC-2010 16:34:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45989
26; 6789.0; 16-DEC-2010 16:37:48; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;45989
27; 6916.1; 16-DEC-2010 16:39:55; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;45989
28; 7077.6; 16-DEC-2010 16:42:36; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;45989
29; 7270.7; 16-DEC-2010 16:45:49; Dark ; 6.5; 23; 21Eps CMa ; 1.50; 26000;occ; 13; 0;45989

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1; 1256.6; 16-DEC-2010 16:45:49; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;45989
2; 1362.9; 16-DEC-2010 16:47:36; Dark ; 25.0; 179; 240mi2CMa ; 3.03; 24000;occ; 50; 0;45989
3; 1526.8; 16-DEC-2010 16:50:20; Dark ; 52.5; 47; 2Bet CMa ; 1.98; 28000;occ; 105; 0;45989
4; 1738.4; 16-DEC-2010 16:53:51; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;45989
5; 1871.4; 16-DEC-2010 16:56:04; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;45989
6; 2057.5; 16-DEC-2010 16:59:10; Dark ; 67.0; 14; 58Alp Ori ; 0.87; 3000;occ; 134; 0;45989
7; 2176.5; 16-DEC-2010 17:01:09; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;45989
8; 2306.5; 16-DEC-2010 17:03:19; Bright; 47.0; 176; 23Zet Tau ; 3.02; 22000;occ; 94; 0;45989
9; 2429.4; 16-DEC-2010 17:05:22; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;45989
10; 2642.4; 16-DEC-2010 17:08:55; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;45989
11; 2772.8; 16-DEC-2010 17:11:06; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;45989
12; 3685.7; 16-DEC-2010 17:26:19; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;45989
13; 3959.8; 16-DEC-2010 17:30:53; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45989
14; 4116.0; 16-DEC-2010 17:33:29; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;45989

15; 4317.9; 16-DEC-2010 17:36:51; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;45989
 16; 4510.9; 16-DEC-2010 17:40:04; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;45989
 17; 4710.6; 16-DEC-2010 17:43:24; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;45989
 18; 4950.7; 16-DEC-2010 17:47:24; Bright; 33.0; 138; 47Eps Vir ; 2.83; 4700;occ; 66; 0;45989
 19; 5309.0; 16-DEC-2010 17:53:22; Dark ; 51.5; 15; 67Alp Vir ; 0.98; 28000;occ; 103; 0;45989
 20; 5518.7; 16-DEC-2010 17:56:52; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;45989
 21; 5670.8; 16-DEC-2010 17:59:24; Dark ; 56.5; 106; 9Bet Crv ; 2.65; 5600;occ; 113; 0;45989
 22; 5768.1; 16-DEC-2010 18:01:01; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;45989
 23; 5956.4; 16-DEC-2010 18:04:09; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;45989
 24; 6054.5; 16-DEC-2010 18:05:47; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;45990
 25; 6286.2; 16-DEC-2010 18:09:39; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;45990
 26; 6510.2; 16-DEC-2010 18:13:23; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;45990
 27; 6599.2; 16-DEC-2010 18:14:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45990
 28; 6789.6; 16-DEC-2010 18:18:02; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;45990
 29; 6916.7; 16-DEC-2010 18:20:10; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;45990
 30; 7078.0; 16-DEC-2010 18:22:51; Dark ; 30.5; 117; Pi Pup ; 2.71; 3800;occ; 61; 0;45990

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1; -698.6; 17-DEC-2010 00:34:24; Dark ; 57.0; 15; 67Alp Vir ; 0.98; 28000;occ; 114; 7;45993
 2; -492.4; 17-DEC-2010 00:37:50; Dark ; 47.0; 169; 46Gam Hya ; 2.99; 4700;occ; 94; 0;45993
 3; -240.6; 17-DEC-2010 00:42:02; Dark ; 35.0; 171; 2Eps Crv ; 3.00; 4250;occ; 70; 0;45993
 4; -55.2; 17-DEC-2010 00:45:08; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;45993
 5; 43.0; 17-DEC-2010 00:46:46; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;45994
 6; 275.5; 17-DEC-2010 00:50:38; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;45994
 7; 498.6; 17-DEC-2010 00:54:22; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;45994
 8; 588.1; 17-DEC-2010 00:55:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45994
 9; 778.2; 17-DEC-2010 00:59:01; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;45994
 10; 905.4; 17-DEC-2010 01:01:08; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;45994
 11; 1065.9; 17-DEC-2010 01:03:49; Dark ; 54.5; 117; Pi Pup ; 2.71; 3800;occ; 109; 0;45994
 12; 1258.4; 17-DEC-2010 01:07:01; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;45994
 13; 1364.4; 17-DEC-2010 01:08:47; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;45994
 14; 1527.5; 17-DEC-2010 01:11:30; Dark ; 51.0; 47; 2Bet CMa ; 1.98; 28000;occ; 102; 0;45994
 15; 1738.3; 17-DEC-2010 01:15:01; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;45994
 16; 1870.9; 17-DEC-2010 01:17:14; Dark ; 47.5; 30; 46Eps Ori ; 1.69; 30000;occ; 95; 0;45994
 17; 2055.8; 17-DEC-2010 01:20:19; Dark ; 58.5; 14; 58Alp Ori ; 0.87; 3000;occ; 117; 0;45994
 18; 2176.1; 17-DEC-2010 01:22:19; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;45994
 19; 2304.3; 17-DEC-2010 01:24:27; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;45994
 20; 2427.4; 17-DEC-2010 01:26:30; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;45994
 21; 2639.5; 17-DEC-2010 01:30:02; Bright; 46.0; 107; 37The Aur ; 2.65; 11000;occ; 92; 0;45994
 22; 2770.0; 17-DEC-2010 01:32:13; Bright; 45.0; 42; 34Bet Aur ; 1.90; 10200;occ; 90; 0;45994
 23; 3685.4; 17-DEC-2010 01:47:28; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;45994
 24; 3958.4; 17-DEC-2010 01:52:01; Bright; 43.5; 32; 77Eps UMa ; 1.76; 11000;occ; 87; 0;45994
 25; 4115.5; 17-DEC-2010 01:54:38; Bright; 43.0; 39; 85Eta UMa ; 1.85; 24000;occ; 86; 0;45994
 26; 4318.1; 17-DEC-2010 01:58:01; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;45994
 27; 4511.5; 17-DEC-2010 02:01:14; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0;45994
 28; 4712.1; 17-DEC-2010 02:04:35; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;45994

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1; -701.4; 17-DEC-2010 02:14:36; Dark ; 52.5; 15; 67Alp Vir ; 0.98; 28000;occ; 105; 0;45994
 2; -337.7; 17-DEC-2010 02:20:39; Dark ; 57.5; 106; 9Bet Crv ; 2.65; 5600;occ; 115; 0;45994
 3; -239.1; 17-DEC-2010 02:22:18; Dark ; 29.0; 171; 2Eps Crv ; 3.00; 4250;occ; 58; 0;45994
 4; 43.9; 17-DEC-2010 02:27:01; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;45995
 5; 276.5; 17-DEC-2010 02:30:53; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;45995
 6; 499.3; 17-DEC-2010 02:34:36; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;45995
 7; 588.8; 17-DEC-2010 02:36:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45995
 8; 778.9; 17-DEC-2010 02:39:16; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;45995
 9; 906.3; 17-DEC-2010 02:41:23; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;45995
 10; 1066.6; 17-DEC-2010 02:44:03; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;45995
 11; 1259.0; 17-DEC-2010 02:47:16; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;45995
 12; 1364.8; 17-DEC-2010 02:49:02; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;45995
 13; 1527.6; 17-DEC-2010 02:51:44; Dark ; 52.5; 47; 2Bet CMa ; 1.98; 28000;occ; 105; 0;45995
 14; 1738.5; 17-DEC-2010 02:55:15; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;45995
 15; 1870.9; 17-DEC-2010 02:57:28; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;45995
 16; 2055.5; 17-DEC-2010 03:00:32; Dark ; 57.0; 14; 58Alp Ori ; 0.87; 3000;occ; 114; 0;45995
 17; 2176.2; 17-DEC-2010 03:02:33; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;45995
 18; 2304.1; 17-DEC-2010 03:04:41; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;45995
 19; 2427.2; 17-DEC-2010 03:06:44; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;45995
 20; 2638.9; 17-DEC-2010 03:10:16; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;45995
 21; 2769.5; 17-DEC-2010 03:12:26; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;45995

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1;-2328.6; 17-DEC-2010 03:27:42; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;45995
 2;-2055.8; 17-DEC-2010 03:32:15; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;45995
 3;-1898.5; 17-DEC-2010 03:34:52; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;45995
 4;-1695.9; 17-DEC-2010 03:38:15; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;45995
 5;-1502.3; 17-DEC-2010 03:41:29; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45995
 6;-1301.7; 17-DEC-2010 03:44:49; Bright; 41.0; 111; 8Eta Boo ; 2.68; 6000;occ; 82; 0;45995
 7; -700.5; 17-DEC-2010 03:54:50; Dark ; 51.0; 15; 67Alp Vir ; 0.98; 28000;occ; 102; 0;45995
 8; -414.7; 17-DEC-2010 03:59:36; Dark ; 54.5; 163; 7Del Crv ; 2.94; 11000;occ; 109; 0;45995
 9; -336.8; 17-DEC-2010 04:00:54; Dark ; 60.0; 106; 9Bet Crv ; 2.65; 5600;occ; 120; 0;45995
 10; -237.8; 17-DEC-2010 04:02:33; Dark ; 29.0; 171; 2Eps Crv ; 3.00; 4250;occ; 58; 0;45995
 11; -54.1; 17-DEC-2010 04:05:37; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;45995
 12; 44.6; 17-DEC-2010 04:07:16; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;45996
 13; 277.4; 17-DEC-2010 04:11:08; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;45996
 14; 499.8; 17-DEC-2010 04:14:51; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;45996
 15; 589.5; 17-DEC-2010 04:16:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45996
 16; 779.7; 17-DEC-2010 04:19:31; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;45996
 17; 907.1; 17-DEC-2010 04:21:38; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;45996
 18; 1067.3; 17-DEC-2010 04:24:18; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;45996
 19; 1259.5; 17-DEC-2010 04:27:30; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;45996
 20; 1365.1; 17-DEC-2010 04:29:16; Dark ; 44.0; 179; 240mi2CMa ; 3.03; 24000;occ; 88; 0;45996
 21; 1527.9; 17-DEC-2010 04:31:59; Dark ; 49.5; 47; 2Bet CMa ; 1.98; 28000;occ; 99; 0;45996
 22; 1738.6; 17-DEC-2010 04:35:30; Dark ; 53.5; 7; 19Bet Ori ; 0.10; 14000;occ; 107; 0;45996
 23; 1870.9; 17-DEC-2010 04:37:42; Dark ; 47.5; 30; 46Eps Ori ; 1.69; 30000;occ; 95; 0;45996
 24; 2055.4; 17-DEC-2010 04:40:46; Dark ; 60.0; 14; 58Alp Ori ; 0.87; 3000;occ; 120; 0;45996
 25; 2176.2; 17-DEC-2010 04:42:47; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;45996
 26; 2303.7; 17-DEC-2010 04:44:55; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;45996
 27; 2426.9; 17-DEC-2010 04:46:58; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;45996
 28; 2638.4; 17-DEC-2010 04:50:29; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;45996
 29; 2769.0; 17-DEC-2010 04:52:40; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;45996
 30; 3685.5; 17-DEC-2010 05:07:56; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;45996

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1;-2311.1; 17-DEC-2010 05:08:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 35;45996
 2;-2056.1; 17-DEC-2010 05:12:29; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0;45996
 3;-1898.6; 17-DEC-2010 05:15:06; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;45996
 4;-1695.9; 17-DEC-2010 05:18:29; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;45996
 5;-1502.2; 17-DEC-2010 05:21:43; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45996
 6;-1301.5; 17-DEC-2010 05:25:04; Bright; 42.5; 111; 8Eta Boo ; 2.68; 6000;occ; 85; 0;45996
 7; -699.9; 17-DEC-2010 05:35:05; Dark ; 57.0; 15; 67Alp Vir ; 0.98; 28000;occ; 114; 0;45996
 8; -413.3; 17-DEC-2010 05:39:52; Dark ; 48.0; 163; 7Del Crv ; 2.94; 11000;occ; 96; 0;45996
 9; -335.7; 17-DEC-2010 05:41:09; Dark ; 55.5; 106; 9Bet Crv ; 2.65; 5600;occ; 111; 0;45996
 10; -53.4; 17-DEC-2010 05:45:52; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;45996
 11; 45.2; 17-DEC-2010 05:47:30; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;45997
 12; 278.3; 17-DEC-2010 05:51:23; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;45997
 13; 500.4; 17-DEC-2010 05:55:06; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;45997
 14; 590.2; 17-DEC-2010 05:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45997
 15; 780.3; 17-DEC-2010 05:59:45; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45997
 16; 907.7; 17-DEC-2010 06:01:53; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;45997
 17; 1067.7; 17-DEC-2010 06:04:33; Dark ; 52.5; 117; Pi Pup ; 2.71; 3800;occ; 105; 0;45997
 18; 1259.8; 17-DEC-2010 06:07:45; Dark ; 52.0; 23; 21Eps CMa ; 1.50; 26000;occ; 104; 0;45997
 19; 1365.4; 17-DEC-2010 06:09:30; Dark ; 44.0; 179; 240mi2CMa ; 3.03; 24000;occ; 88; 0;45997
 20; 1528.1; 17-DEC-2010 06:12:13; Dark ; 51.5; 47; 2Bet CMa ; 1.98; 28000;occ; 103; 0;45997
 21; 1738.6; 17-DEC-2010 06:15:44; Dark ; 56.0; 7; 19Bet Ori ; 0.10; 14000;occ; 112; 0;45997
 22; 1870.9; 17-DEC-2010 06:17:56; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;45997
 23; 2055.0; 17-DEC-2010 06:21:00; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;45997
 24; 2176.2; 17-DEC-2010 06:23:01; Dark ; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;45997
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13; 1369.0; 18-DEC-2010 00:32:08; Dark ; 51.0; 179; 240mi2CMA ; 3.03; 24000;occ; 102; 0;46008
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23; 3685.1; 18-DEC-2010 01:10:44; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;46008
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9; 3685.4; 17-DEC-2010 08:28:25; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;45998
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13; 4512.5; 17-DEC-2010 10:22:26; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;45999
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13; 4318.7; 17-DEC-2010 13:39:40; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;46001
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13; 3685.3; 17-DEC-2010 18:29:49; Bright; 53.0; 60; 7Bet UMi ; 2.08; 3950;occ; 106; 0;46004
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17; 6000.8; 21-DEC-2010 10:00:34; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;46056
18; 6102.9; 21-DEC-2010 10:02:16; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;46057
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22; 6834.5; 21-DEC-2010 10:14:27; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;46057
23; 6964.1; 21-DEC-2010 10:16:37; Dark ; 49.5; 70; Zet Pup ; 2.25; 39000;occ; 99; 0;46057
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 16; 5751.5; 21-DEC-2010 11:36:38; Dark ; 60.0; 106; 9Bet Crv ; 2.65; 5600;occ; 120; 0;46057
 17; 6001.6; 21-DEC-2010 11:40:48; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;46057
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 19; 6347.4; 21-DEC-2010 11:46:34; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46058
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 6; 2605.8; 21-DEC-2010 12:24:27; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;46058
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 22; 6649.4; 21-DEC-2010 15:12:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46060
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13; 4323.6; 21-DEC-2010 16:13:32; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;46060
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 5; 93.7; 22-DEC-2010 22:47:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46079
 6; 352.3; 22-DEC-2010 22:51:48; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;46079
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 13; 3936.9; 22-DEC-2010 18:50:50; Bright; 46.0; 32; 77Eps UMa ; 1.76; 11000;occ; 92; 0;46076
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 23; 3935.6; 23-DEC-2010 01:31:45; Bright; 65.0; 32; 77Eps UMa ; 1.76; 11000;occ; 130; 0;46080
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13; 1390.8; 23-DEC-2010 02:29:34; Dark ; 48.5; 179; 240mi2CMA ; 3.03; 24000;occ; 97; 0;46081
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13; 552.3; 23-DEC-2010 05:36:04; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;46083
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 3; -214.8; 23-DEC-2010 23:45:51; Dark ; 28.0; 106; 9Bet Crv ; 2.65; 5600;occ; 56; 0;46093
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 5; 106.8; 23-DEC-2010 23:51:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46094
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 7; 558.6; 23-DEC-2010 23:58:44; Dark ; 48.0; 71; Iot Car ; 2.25; 7700;occ; 96; 0;46094
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 12; 1295.7; 24-DEC-2010 00:11:01; Dark ; 51.5; 23; 21Eps Cma ; 1.50; 26000;occ; 103; 0;46094
 13; 1394.3; 24-DEC-2010 00:12:40; Dark ; 47.0; 179; 240mi2Cma ; 3.03; 24000;occ; 94; 0;46094
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 23; 3931.4; 24-DEC-2010 00:54:57; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;46094
 24; 4106.0; 24-DEC-2010 00:57:52; Bright; 62.0; 39; 85Eta UMa ; 1.85; 24000;occ; 124; 0;46094
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11; 98.1; 23-DEC-2010 07:08:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46084
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13; 4527.9; 23-DEC-2010 08:22:33; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;46084
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27; 7405.9; 23-DEC-2010 09:10:31; Dark ; 47.5; 179; 240mi2CMA ; 3.03; 24000;occ; 95; 0;46085
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 27; 7410.1; 24-DEC-2010 11:54:20; Dark ; 45.5; 179; 240mi2CMA ; 3.03; 24000;occ; 91; 0;46101
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27; 6994.3; 24-DEC-2010 16:48:06; Dark ; 50.0; 70; Zet Pup ; 2.25; 39000;occ; 100; 0;46104
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