

GOMOS Daily Report 12-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	15DEC2010 05:05:17
Data source version	GOMOS/5.01
Start time of products	12DEC2010 00:00:51
Stop time of products	12DEC2010 23:56:14
Store outputs in DB	Yes
Nb of level 1b prods	158
Nb of prods with errors	1

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

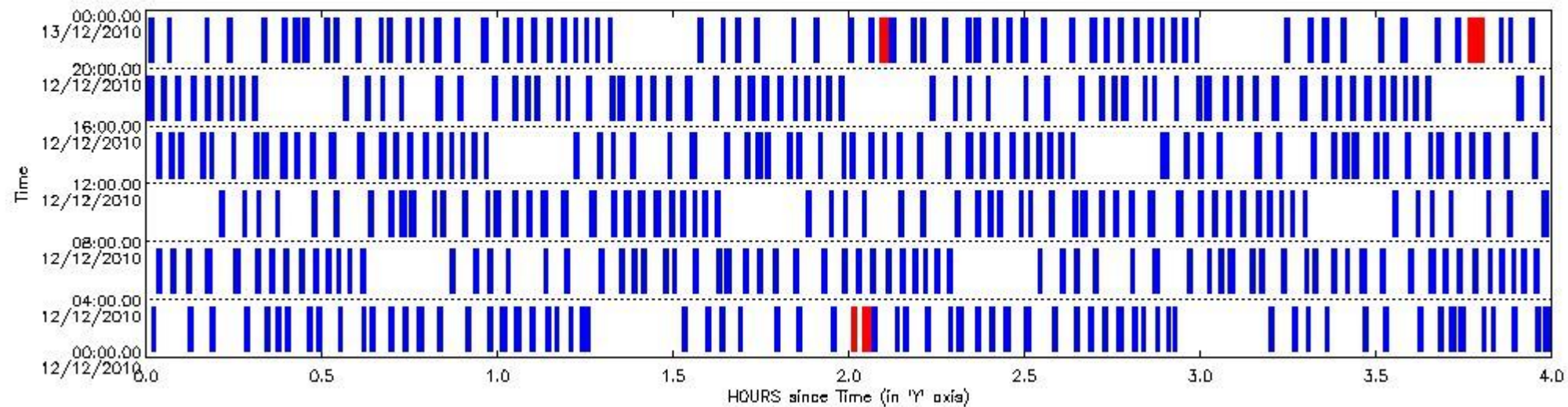
2.1 Level 0 products arrived in PCF (see template [here](#))

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
12-DEC-2010 02:00:21	46GamHya	169	45922
12-DEC-2010 02:02:17	4GamCrv	100	45922
12-DEC-2010 22:05:20	4GamCrv	100	45934
12-DEC-2010 23:45:35	4GamCrv	100	45935
12-DEC-2010 23:47:11	2EpsCrv	171	45935

2.4 Summary of processed GOM_TRA_1P products

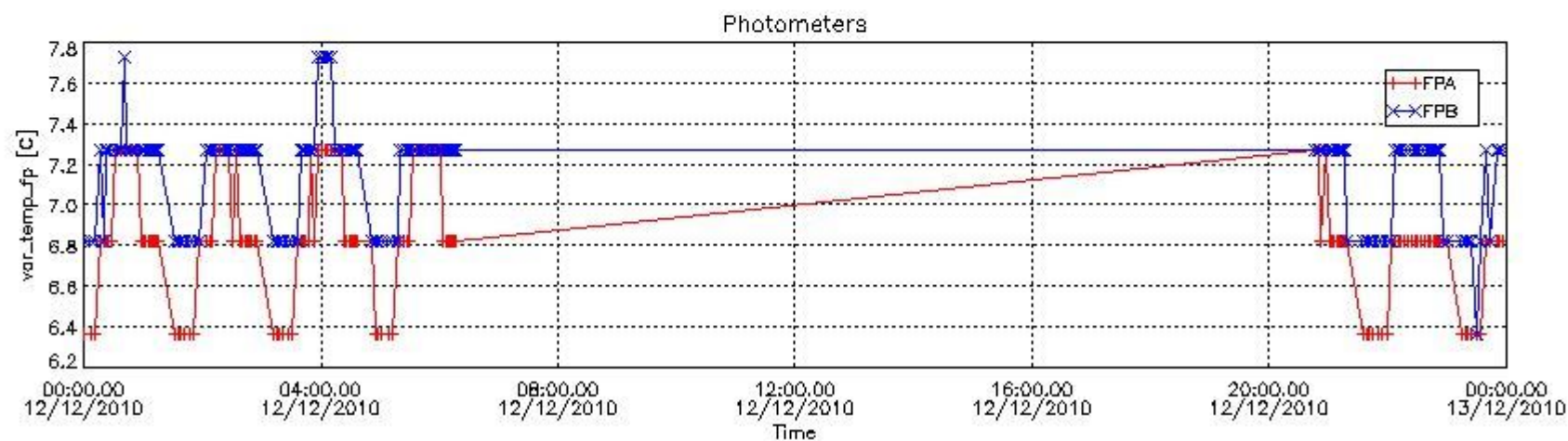
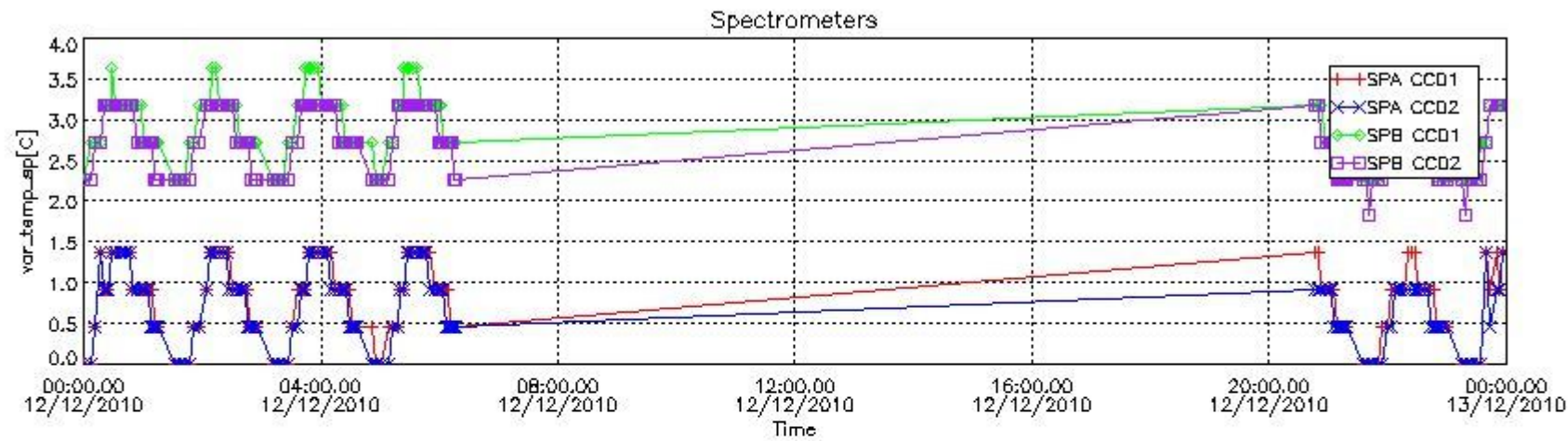
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101212_000051_000000353097_00217_45921_6045.N1	12-DEC-2010 00:00:51	Bright	34.500	180	27Gam Boo	3.0400	8000.0	69	45921	No
2	GOM_TRA_1PNPDE20101212_000710_000000393097_00217_45921_6046.N1	12-DEC-2010 00:07:10	Bright	39.000	111	8Eta Boo	2.6800	6000.0	78	45921	No
3	GOM_TRA_1PNPDE20101212_001048_000000503097_00217_45921_6047.N1	12-DEC-2010 00:10:48	Bright	50.000	138	47Eps Vir	2.8280	4700.0	100	45921	No
4	GOM_TRA_1PNPDE20101212_001642_000000513097_00217_45921_6059.N1	12-DEC-2010 00:16:42	Twilight	50.500	15	67Alp Vir	0.97600	28000.0	101	45921	Yes
5	GOM_TRA_1PNPDE20101212_002010_000000473097_00217_45921_6060.N1	12-DEC-2010 00:20:10	Twilight	46.500	169	46Gam Hya	2.9910	4700.0	93	45921	No
6	GOM_TRA_1PNPDE20101212_002206_000000533097_00217_45921_6061.N1	12-DEC-2010 00:22:06	Dark	53.000	100	4Gam Crv	2.5800	13100.0	106	45921	No

7	GOM_TRA_1PNPDE20101212_002342_000000583097_00217_45921_6062.N1	12-DEC-2010 00:23:42	Dark	58.000	171	2Eps Crv	3.0010	4250.0	116	45921	No
8	GOM_TRA_1PNPDE20101212_002734_000000403097_00217_45921_6063.N1	12-DEC-2010 00:27:34	Dark	39.500	64	Gam Cen	2.2000	10600.	79	45921	No
9	GOM_TRA_1PNPDE20101212_002908_000000443097_00217_45921_6064.N1	12-DEC-2010 00:29:08	Dark	44.000	99	Del Cen	2.5750	26000.	88	45921	No
10	GOM_TRA_1PNPDE20101212_003245_000000463097_00218_45922_6065.N1	12-DEC-2010 00:32:45	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	45922	No
11	GOM_TRA_1PNPDE20101212_003647_000000423097_00218_45922_6066.N1	12-DEC-2010 00:36:47	Dark	41.500	71	lot Car	2.2460	7700.0	83	45922	No
12	GOM_TRA_1PNPDE20101212_004119_000000483097_00218_45922_6067.N1	12-DEC-2010 00:41:19	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	45922	No
13	GOM_TRA_1PNPDE20101212_004346_000000463097_00218_45922_6068.N1	12-DEC-2010 00:43:46	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	45922	No
14	GOM_TRA_1PNPDE20101212_004617_000000583097_00218_45922_6069.N1	12-DEC-2010 00:46:17	Dark	58.000	117	Pi Pup	2.7060	3800.0	116	45922	No
15	GOM_TRA_1PNPDE20101212_004940_000000563097_00218_45922_6070.N1	12-DEC-2010 00:49:40	Straylight	55.500	23	21Eps CMa	1.5020	26000.	111	45922	No
16	GOM_TRA_1PNPDE20101212_005430_000000563097_00218_45922_6071.N1	12-DEC-2010 00:54:30	Straylight	55.500	47	2Bet CMa	1.9760	28000.	111	45922	No
17	GOM_TRA_1PNPDE20101212_005809_000000573097_00218_45922_6072.N1	12-DEC-2010 00:58:09	Straylight	57.000	7	19Bet Ori	0.10000	14000.	114	45922	No
18	GOM_TRA_1PNPDE20101212_010033_000000523097_00218_45922_6073.N1	12-DEC-2010 01:00:33	Straylight	52.000	30	46Eps Ori	1.6940	30000.	104	45922	No
19	GOM_TRA_1PNPDE20101212_010258_000000503097_00218_45922_6074.N1	12-DEC-2010 01:02:58	Tw_i_and_stray	50.000	27	24Gam Ori	1.6360	26000.	100	45922	No
20	GOM_TRA_1PNPDE20101212_010535_000000503097_00218_45922_6075.N1	12-DEC-2010 01:05:35	Tw_i_and_stray	50.000	13	87Alp Tau	0.86700	3800.0	100	45922	No
21	GOM_TRA_1PNPDE20101212_010810_000000463097_00218_45922_6076.N1	12-DEC-2010 01:08:10	Bright	46.000	176	23Zet Tau	3.0200	22000.	92	45922	No
22	GOM_TRA_1PNPDE20101212_010950_000000373097_00218_45922_6077.N1	12-DEC-2010 01:09:50	Bright	37.000	150	44Zet Per	2.8900	28000.	74	45922	No
23	GOM_TRA_1PNPDE20101212_011209_000000363097_00218_45922_6078.N1	12-DEC-2010 01:12:09	Bright	36.000	149	45Eps Per	2.8880	30000.	72	45922	No
24	GOM_TRA_1PNPDE20101212_011400_000000333097_00218_45922_6079.N1	12-DEC-2010 01:14:00	Tw_i_and_stray	33.000	107	37The Aur	2.6490	11000.	66	45922	No
25	GOM_TRA_1PNPDE20101212_011500_000000473097_00218_45922_6080.N1	12-DEC-2010 01:15:00	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	45922	No
26	GOM_TRA_1PNPDE20101212_013130_000000473097_00218_45922_6081.N1	12-DEC-2010 01:31:30	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	45922	No
27	GOM_TRA_1PNPDE20101212_013526_000000603097_00218_45922_6082.N1	12-DEC-2010 01:35:26	Bright	60.000	32	77Eps UMa	1.7630	11000.	120	45922	No
28	GOM_TRA_1PNPDE20101212_013752_000000573097_00218_45922_6083.N1	12-DEC-2010 01:37:52	Bright	57.000	39	85Eta UMa	1.8540	24000.	114	45922	No
29	GOM_TRA_1PNPDE20101212_014105_000000373097_00218_45922_6084.N1	12-DEC-2010 01:41:05	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	45922	No
30	GOM_TRA_1PNPDE20101212_014724_000000383097_00218_45922_6085.N1	12-DEC-2010 01:47:24	Bright	38.000	111	8Eta Boo	2.6800	6000.0	76	45922	No
31	GOM_TRA_1PNPDE20101212_015102_000000483097_00218_45922_6086.N1	12-DEC-2010 01:51:02	Bright	47.500	138	47Eps Vir	2.8280	4700.0	95	45922	No
32	GOM_TRA_1PNPDE20101212_015656_000000483097_00218_45922_6081.N1	12-DEC-2010 01:56:56	Tw_i_and_stray	48.000	15	67Alp Vir	0.97600	28000.	96	45922	No
33	GOM_TRA_1PNPDE20101212_020357_000000533097_00218_45922_6082.N1	12-DEC-2010 02:03:57	Dark	53.000	171	2Eps Crv	3.0010	4250.0	106	45922	No
34	GOM_TRA_1PNPDE20101212_020749_000000413097_00218_45922_6083.N1	12-DEC-2010 02:07:49	Dark	41.000	64	Gam Cen	2.2000	10600.	82	45922	No
35	GOM_TRA_1PNPDE20101212_020922_000000423097_00218_45922_6084.N1	12-DEC-2010 02:09:22	Dark	42.000	99	Del Cen	2.5750	26000.	84	45922	No
36	GOM_TRA_1PNPDE20101212_021300_000000443097_00219_45923_6085.N1	12-DEC-2010 02:13:00	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	45923	No
37	GOM_TRA_1PNPDE20101212_021702_000000413097_00219_45923_6086.N1	12-DEC-2010 02:17:02	Dark	41.000	71	lot Car	2.2460	7700.0	82	45923	No
38	GOM_TRA_1PNPDE20101212_022134_000000483097_00219_45923_6087.N1	12-DEC-2010 02:21:34	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	45923	No
39	GOM_TRA_1PNPDE20101212_022400_000000543097_00219_45923_6088.N1	12-DEC-2010 02:24:00	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	45923	No
40	GOM_TRA_1PNPDE20101212_022632_000000583097_00219_45923_6089.N1	12-DEC-2010 02:26:32	Dark	57.500	117	Pi Pup	2.7060	3800.0	115	45923	No
41	GOM_TRA_1PNPDE20101212_022954_000000583097_00219_45923_6090.N1	12-DEC-2010 02:29:54	Straylight	57.500	23	21Eps CMa	1.5020	26000.	115	45923	No
42	GOM_TRA_1PNPDE20101212_023444_000000553097_00219_45923_6091.N1	12-DEC-2010 02:34:44	Straylight	54.500	47	2Bet CMa	1.9760	28000.	109	45923	No
43	GOM_TRA_1PNPDE20101212_023823_000000553097_00219_45923_6092.N1	12-DEC-2010 02:38:23	Straylight	55.000	7	19Bet Ori	0.10000	14000.	110	45923	No
44	GOM_TRA_1PNPDE20101212_024047_000000533097_00219_45923_6093.N1	12-DEC-2010 02:40:47	Straylight	52.500	30	46Eps Ori	1.6940	30000.	105	45923	No
45	GOM_TRA_1PNPDE20101212_024311_000000513097_00219_45923_6094.N1	12-DEC-2010 02:43:11	Tw_i_and_stray	50.500	27	24Gam Ori	1.6360	26000.	101	45923	No
46	GOM_TRA_1PNPDE20101212_024549_000000563097_00219_45923_6095.N1	12-DEC-2010 02:45:49	Tw_i_and_stray	56.000	13	87Alp Tau	0.86700	3800.0	112	45923	No
47	GOM_TRA_1PNPDE20101212_024823_000000463097_00219_45923_6096.N1	12-DEC-2010 02:48:23	Bright	45.500	176	23Zet Tau	3.0200	22000.	91	45923	No
48	GOM_TRA_1PNPDE20101212_025004_000000363097_00219_45923_6097.N1	12-DEC-2010 02:50:04	Bright	35.500	150	44Zet Per	2.8900	28000.	71	45923	No
49	GOM_TRA_1PNPDE20101212_025223_000000363097_00219_45923_6098.N1	12-DEC-2010 02:52:23	Bright	36.000	149	45Eps Per	2.8880	30000.	72	45923	No
50	GOM_TRA_1PNPDE20101212_025413_000000333097_00219_45923_6099.N1	12-DEC-2010 02:54:13	Tw_i_and_stray	33.000	107	37The Aur	2.6490	11000.	66	45923	No
51	GOM_TRA_1PNPDE20101212_025514_000000473097_00219_45923_6100.N1	12-DEC-2010 02:55:14	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	45923	No
52	GOM_TRA_1PNPDE20101212_031144_000000483097_00219_45923_6102.N1	12-DEC-2010 03:11:44	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	45923	No
53	GOM_TRA_1PNPDE20101212_031540_000000443097_00219_45923_6103.N1	12-DEC-2010 03:15:40	Bright	44.000	32	77Eps UMa	1.7630	11000.	88	45923	No
54	GOM_TRA_1PNPDE20101212_031806_000000413097_00219_45923_6104.N1	12-DEC-2010 03:18:06	Bright	41.000	39	85Eta UMa	1.8540	24000.	82	45923	No
55	GOM_TRA_1PNPDE20101212_032119_000000363097_00219_45923_6105.N1	12-DEC-2010 03:21:19	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	45923	No
56	GOM_TRA_1PNPDE20101212_032738_000000583097_00219_45923_6106.N1	12-DEC-2010 03:27:38	Bright	58.000	111	8Eta Boo	2.6800	6000.0	116	45923	No
57	GOM_TRA_1PNPDE20101212_033117_000000483097_00219_45923_6107.N1	12-DEC-2010 03:31:17	Bright	47.500	138	47Eps Vir	2.8280	4700.0	95	45923	No
58	GOM_TRA_1PNPDE20101212_033711_000000533097_00219_45923_6108.N1	12-DEC-2010 03:37:11	Tw_i_and_stray	52.500	15	67Alp Vir	0.97600	28000.	105	45923	No
59	GOM_TRA_1PNPDE20101212_034039_000000473097_00219_45923_6109.N1	12-DEC-2010 03:40:39	Twilight	47.000	169	46Gam Hya	2.9910	4700.0	94	45923	No
60	GOM_TRA_1PNPDE20101212_034236_000000533097_00219_45923_6110.N1	12-DEC-2010 03:42:36	Dark	53.000	100	4Gam Crv	2.5800	13100.	106	45923	No
61	GOM_TRA_1PNPDE20101212_034412_000000533097_00219_45923_6111.N1	12-DEC-2010 03:44:12	Dark	52.500	171	2Eps Crv	3.0010	4250.0	105	45923	No
62	GOM_TRA_1PNPDE20101212_034804_000000403097_00219_45923_6112.N1	12-DEC-2010 03:48:04	Dark	39.500	64	Gam Cen	2.2000	10600.	79	45923	No
63	GOM_TRA_1PNPDE20101212_034937_000000433097_00220_45924_6113.N1	12-DEC-2010 03:49:37	Dark	42.500	99	Del Cen	2.5750	26000.	85	45924	No
64	GOM_TRA_1PNPDE20101212_035315_000000463097_00220_45924_6114.N1	12-DEC-2010 03:53:15	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45924	No
65	GOM_TRA_1PNPDE20101212_035716_000000433097_00220_45924_6115.N1	12-DEC-2010 03:57:16	Dark	42.500	71	lot Car	2.2460	7700.0	85	45924	No

66	GOM_TRA_1PNPDE20101212_040149_000000463097_00220_45924_6116.N1	12-DEC-2010 04:01:49	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	45924	No
67	GOM_TRA_1PNPDE20101212_040415_000000483097_00220_45924_6117.N1	12-DEC-2010 04:04:15	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	45924	No
68	GOM_TRA_1PNPDE20101212_040646_000000563097_00220_45924_6118.N1	12-DEC-2010 04:06:46	Dark	55.500	117	Pi Pup	2.7060	3800.0	111	45924	No
69	GOM_TRA_1PNPDE20101212_041009_000000593097_00220_45924_6119.N1	12-DEC-2010 04:10:09	Straylight	59.000	23	21Eps CMa	1.5020	26000.	118	45924	No
70	GOM_TRA_1PNPDE20101212_041459_000000573097_00220_45924_6120.N1	12-DEC-2010 04:14:59	Straylight	57.000	47	2Bet CMa	1.9760	28000.	114	45924	No
71	GOM_TRA_1PNPDE20101212_041837_000000533097_00220_45924_6121.N1	12-DEC-2010 04:18:37	Straylight	53.000	7	19Bet Ori	0.10000	14000.	106	45924	No
72	GOM_TRA_1PNPDE20101212_042101_000000533097_00220_45924_6122.N1	12-DEC-2010 04:21:01	Straylight	52.500	30	46Eps Ori	1.6940	30000.	105	45924	No
73	GOM_TRA_1PNPDE20101212_042326_000000503097_00220_45924_6123.N1	12-DEC-2010 04:23:26	Twilight	49.500	27	24Gam Ori	1.6360	26000.	99	45924	No
74	GOM_TRA_1PNPDE20101212_042604_000000473097_00220_45924_6124.N1	12-DEC-2010 04:26:04	Twilight	46.500	13	87Alp Tau	0.86700	3800.0	93	45924	No
75	GOM_TRA_1PNPDE20101212_042837_000000453097_00220_45924_6125.N1	12-DEC-2010 04:28:37	Bright	45.000	176	23Zet Tau	3.0200	22000.	90	45924	No
76	GOM_TRA_1PNPDE20101212_043038_000000463097_00220_45924_6126.N1	12-DEC-2010 04:30:38	Bright	45.500	28	12Bet Tau	1.6500	15200.	91	45924	No
77	GOM_TRA_1PNPDE20101212_043237_000000363097_00220_45924_6127.N1	12-DEC-2010 04:32:37	Bright	36.000	149	45Eps Per	2.8880	30000.	72	45924	No
78	GOM_TRA_1PNPDE20101212_043427_000000393097_00220_45924_6128.N1	12-DEC-2010 04:34:27	Bright	39.000	107	37The Aur	2.6490	11000.	78	45924	No
79	GOM_TRA_1PNPDE20101212_043634_000000453097_00220_45924_6129.N1	12-DEC-2010 04:36:34	Bright	45.000	42	34Bet Aur	1.9000	10200.	90	45924	No
80	GOM_TRA_1PNPDE20101212_045158_000000473097_00220_45924_6120.N1	12-DEC-2010 04:51:58	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	45924	No
81	GOM_TRA_1PNPDE20101212_045554_000000443097_00220_45924_6121.N1	12-DEC-2010 04:55:54	Bright	43.500	32	77Eps UMa	1.7630	11000.	87	45924	No
82	GOM_TRA_1PNPDE20101212_045820_000000383097_00220_45924_6122.N1	12-DEC-2010 04:58:20	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	45924	No
83	GOM_TRA_1PNPDE20101212_050133_000000373097_00220_45924_6123.N1	12-DEC-2010 05:01:33	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	45924	No
84	GOM_TRA_1PNPDE20101212_050753_000000403097_00220_45924_6124.N1	12-DEC-2010 05:07:53	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	45924	No
85	GOM_TRA_1PNPDE20101212_051131_000000493097_00220_45924_6125.N1	12-DEC-2010 05:11:31	Bright	48.500	138	47Eps Vir	2.8280	4700.0	97	45924	No
86	GOM_TRA_1PNPDE20101212_051726_000000493097_00220_45924_6126.N1	12-DEC-2010 05:17:26	Twilight	48.500	15	67Alp Vir	0.97600	28000.	97	45924	No
87	GOM_TRA_1PNPDE20101212_052054_000000463097_00220_45924_6127.N1	12-DEC-2010 05:20:54	Twilight	46.000	169	46Gam Hya	2.9910	4700.0	92	45924	No
88	GOM_TRA_1PNPDE20101212_052252_000000543097_00220_45924_6128.N1	12-DEC-2010 05:22:52	Dark	54.000	100	4Gam Crv	2.5800	13100.	108	45924	No
89	GOM_TRA_1PNPDE20101212_052427_000000553097_00220_45924_6129.N1	12-DEC-2010 05:24:27	Dark	55.000	171	2Eps Crv	3.0010	4250.0	110	45924	No
90	GOM_TRA_1PNPDE20101212_052818_000000423097_00220_45924_6130.N1	12-DEC-2010 05:28:18	Dark	41.500	64	Gam Cen	2.2000	10600.	83	45924	No
91	GOM_TRA_1PNPDE20101212_052952_000000423097_00221_45925_6131.N1	12-DEC-2010 05:29:52	Dark	41.500	99	Del Cen	2.5750	26000.	83	45925	No
92	GOM_TRA_1PNPDE20101212_053330_000000443097_00221_45925_6132.N1	12-DEC-2010 05:33:30	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	45925	No
93	GOM_TRA_1PNPDE20101212_053731_000000423097_00221_45925_6133.N1	12-DEC-2010 05:37:31	Dark	42.000	71	lot Car	2.2460	7700.0	84	45925	No
94	GOM_TRA_1PNPDE20101212_054204_000000483097_00221_45925_6134.N1	12-DEC-2010 05:42:04	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	45925	No
95	GOM_TRA_1PNPDE20101212_054429_000000453097_00221_45925_6135.N1	12-DEC-2010 05:44:29	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	45925	No
96	GOM_TRA_1PNPDE20101212_054701_000000553097_00221_45925_6136.N1	12-DEC-2010 05:47:01	Dark	55.000	117	Pi Pup	2.7060	3800.0	110	45925	No
97	GOM_TRA_1PNPDE20101212_055023_000000613097_00221_45925_6137.N1	12-DEC-2010 05:50:23	Straylight	61.000	23	21Eps CMa	1.5020	26000.	122	45925	No
98	GOM_TRA_1PNPDE20101212_055513_000000573097_00221_45925_6138.N1	12-DEC-2010 05:55:13	Straylight	56.500	47	2Bet CMa	1.9760	28000.	113	45925	No
99	GOM_TRA_1PNPDE20101212_055852_000000533097_00221_45925_6139.N1	12-DEC-2010 05:58:52	Straylight	53.000	7	19Bet Ori	0.10000	14000.	106	45925	No
100	GOM_TRA_1PNPDE20101212_060115_000000523097_00221_45925_6140.N1	12-DEC-2010 06:01:15	Straylight	52.000	30	46Eps Ori	1.6940	30000.	104	45925	No
101	GOM_TRA_1PNPDE20101212_060339_000000513097_00221_45925_6141.N1	12-DEC-2010 06:03:39	Twilight	50.500	27	24Gam Ori	1.6360	26000.	101	45925	No
102	GOM_TRA_1PNPDE20101212_060618_000000563097_00221_45925_6142.N1	12-DEC-2010 06:06:18	Twilight	55.500	13	87Alp Tau	0.86700	3800.0	111	45925	No
103	GOM_TRA_1PNPDE20101212_060850_000000473097_00221_45925_6143.N1	12-DEC-2010 06:08:50	Bright	46.500	176	23Zet Tau	3.0200	22000.	93	45925	No
104	GOM_TRA_1PNPDE20101212_061052_000000463097_00221_45925_6144.N1	12-DEC-2010 06:10:52	Bright	45.500	28	12Bet Tau	1.6500	15200.	91	45925	No
105	GOM_TRA_1PNPDE20101212_061251_000000353097_00221_45925_6145.N1	12-DEC-2010 06:12:51	Bright	34.500	149	45Eps Per	2.8880	30000.	69	45925	No
106	GOM_TRA_1PNPDE20101212_061440_000000393097_00221_45925_6146.N1	12-DEC-2010 06:14:40	Bright	39.000	107	37The Aur	2.6490	11000.	78	45925	No
107	GOM_TRA_1PNPDE20101212_061647_000000443097_00221_45925_6147.N1	12-DEC-2010 06:16:47	Bright	44.000	42	34Bet Aur	1.9000	10200.	88	45925	No
108	GOM_TRA_1PNPDE20101212_204639_000000473097_00230_45934_6216.N1	12-DEC-2010 20:46:39	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	45934	No
109	GOM_TRA_1PNPDE20101212_204913_000000553097_00230_45934_6217.N1	12-DEC-2010 20:49:13	Dark	54.500	117	Pi Pup	2.7060	3800.0	109	45934	No
110	GOM_TRA_1PNPDE20101212_205234_000000563097_00230_45934_6218.N1	12-DEC-2010 20:52:34	Straylight	55.500	23	21Eps CMa	1.5020	26000.	111	45934	No
111	GOM_TRA_1PNPDE20101212_205720_000000573097_00230_45934_6219.N1	12-DEC-2010 20:57:20	Straylight	56.500	47	2Bet CMa	1.9760	28000.	113	45934	No
112	GOM_TRA_1PNPDE20101212_210058_000000523097_00230_45934_6220.N1	12-DEC-2010 21:00:58	Straylight	52.000	7	19Bet Ori	0.10000	14000.	104	45934	No
113	GOM_TRA_1PNPDE20101212_210319_000000533097_00230_45934_6221.N1	12-DEC-2010 21:03:19	Straylight	52.500	30	46Eps Ori	1.6940	30000.	105	45934	No
114	GOM_TRA_1PNPDE20101212_210544_000000493097_00230_45934_6222.N1	12-DEC-2010 21:05:44	Twilight	48.500	27	24Gam Ori	1.6360	26000.	97	45934	No
115	GOM_TRA_1PNPDE20101212_210823_000000503097_00230_45934_6223.N1	12-DEC-2010 21:08:23	Twilight	50.000	13	87Alp Tau	0.86700	3800.0	100	45934	No
116	GOM_TRA_1PNPDE20101212_211052_000000453097_00230_45934_6224.N1	12-DEC-2010 21:10:52	Bright	44.500	176	23Zet Tau	3.0200	22000.	89	45934	No
117	GOM_TRA_1PNPDE20101212_211254_000000443097_00230_45934_6225.N1	12-DEC-2010 21:12:54	Bright	43.500	28	12Bet Tau	1.6500	15200.	87	45934	No
118	GOM_TRA_1PNPDE20101212_211457_000000353097_00230_45934_6226.N1	12-DEC-2010 21:14:57	Bright	35.000	149	45Eps Per	2.8880	30000.	70	45934	No
119	GOM_TRA_1PNPDE20101212_211640_000000463097_00230_45934_6227.N1	12-DEC-2010 21:16:40	Bright	45.500	107	37The Aur	2.6490	11000.	91	45934	No
120	GOM_TRA_1PNPDE20101212_211847_000000453097_00230_45934_6228.N1	12-DEC-2010 21:18:47	Bright	45.000	42	34Bet Aur	1.9000	10200.	90	45934	No
121	GOM_TRA_1PNPDE20101212_213413_000000473097_00230_45934_6229.N1	12-DEC-2010 21:34:13	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	45934	No
122	GOM_TRA_1PNPDE20101212_213813_000000393097_00230_45934_6230.N1	12-DEC-2010 21:38:13	Bright	39.000	32	77Eps UMa	1.7630	11000.	78	45934	No
123	GOM_TRA_1PNPDE20101212_214040_000000403097_00230_45934_6231.N1	12-DEC-2010 21:40:40	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	45934	No
124	GOM_TRA_1PNPDE20101212_214354_000000373097_00230_45934_6232.N1	12-DEC-2010 21:43:54	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	45934	No

125	GOM_TRA_1PNPDE20101212_215016_000000403097_00230_45934_6233.N1	12-DEC-2010 21:50:16	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	45934	No
126	GOM_TRA_1PNPDE20101212_215357_000000503097_00230_45934_6234.N1	12-DEC-2010 21:53:57	Bright	50.000	138	47Eps Vir	2.8280	4700.0	100	45934	No
127	GOM_TRA_1PNPDE20101212_215952_000000503097_00230_45934_6236.N1	12-DEC-2010 21:59:52	Twilight	50.000	15	67Alp Vir	0.97600	28000.	100	45934	No
128	GOM_TRA_1PNPDE20101212_220321_000000493097_00230_45934_6237.N1	12-DEC-2010 22:03:21	Twilight	49.000	169	46Gam Hya	2.9910	4700.0	98	45934	No
129	GOM_TRA_1PNPDE20101212_220700_000000533097_00230_45934_6238.N1	12-DEC-2010 22:07:00	Dark	52.500	171	2Eps Crv	3.0010	4250.0	105	45934	No
130	GOM_TRA_1PNPDE20101212_221044_000000403097_00230_45934_6239.N1	12-DEC-2010 22:10:44	Dark	40.000	64	Gam Cen	2.2000	10600.	80	45934	No
131	GOM_TRA_1PNPDE20101212_221219_000000423097_00231_45935_6240.N1	12-DEC-2010 22:12:19	Dark	41.500	99	Del Cen	2.5750	26000.	83	45935	No
132	GOM_TRA_1PNPDE20101212_221559_000000473097_00231_45935_6241.N1	12-DEC-2010 22:15:59	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	45935	No
133	GOM_TRA_1PNPDE20101212_221958_000000433097_00231_45935_6242.N1	12-DEC-2010 22:19:58	Dark	43.000	71	lot Car	2.2460	7700.0	86	45935	No
134	GOM_TRA_1PNPDE20101212_222431_000000513097_00231_45935_6243.N1	12-DEC-2010 22:24:31	Dark	50.500	34	Gam2Vel	1.7930	23000.	101	45935	No
135	GOM_TRA_1PNPDE20101212_222654_000000483097_00231_45935_6244.N1	12-DEC-2010 22:26:54	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	45935	No
136	GOM_TRA_1PNPDE20101212_222928_000000563097_00231_45935_6245.N1	12-DEC-2010 22:29:28	Dark	55.500	117	Pi Pup	2.7060	3800.0	111	45935	No
137	GOM_TRA_1PNPDE20101212_223248_000000593097_00231_45935_6246.N1	12-DEC-2010 22:32:48	Straylight	58.500	23	21Eps CMa	1.5020	26000.	117	45935	No
138	GOM_TRA_1PNPDE20101212_223734_000000543097_00231_45935_6247.N1	12-DEC-2010 22:37:34	Straylight	53.500	47	2Bet CMa	1.9760	28000.	107	45935	No
139	GOM_TRA_1PNPDE20101212_224112_000000593097_00231_45935_6248.N1	12-DEC-2010 22:41:12	Straylight	59.000	7	19Bet Ori	0.10000	14000.	118	45935	No
140	GOM_TRA_1PNPDE20101212_224333_000000513097_00231_45935_6249.N1	12-DEC-2010 22:43:33	Straylight	50.500	30	46Eps Ori	1.6940	30000.	101	45935	No
141	GOM_TRA_1PNPDE20101212_224557_000000513097_00231_45935_6250.N1	12-DEC-2010 22:45:57	Twilight	51.000	27	24Gam Ori	1.6360	26000.	102	45935	No
142	GOM_TRA_1PNPDE20101212_224837_000000513097_00231_45935_6251.N1	12-DEC-2010 22:48:37	Twilight	50.500	13	87Alp Tau	0.86700	3800.0	101	45935	No
143	GOM_TRA_1PNPDE20101212_225106_000000443097_00231_45935_6252.N1	12-DEC-2010 22:51:06	Bright	44.000	176	23Zet Tau	3.0200	22000.	88	45935	No
144	GOM_TRA_1PNPDE20101212_225307_000000453097_00231_45935_6253.N1	12-DEC-2010 22:53:07	Bright	44.500	28	12Bet Tau	1.6500	15200.	89	45935	No
145	GOM_TRA_1PNPDE20101212_225511_000000363097_00231_45935_6254.N1	12-DEC-2010 22:55:11	Bright	36.000	149	45Eps Per	2.8880	30000.	72	45935	No
146	GOM_TRA_1PNPDE20101212_225653_000000463097_00231_45935_6255.N1	12-DEC-2010 22:56:53	Bright	45.500	107	37The Aur	2.6490	11000.	91	45935	No
147	GOM_TRA_1PNPDE20101212_225901_000000453097_00231_45935_6256.N1	12-DEC-2010 22:59:01	Bright	45.000	42	34Bet Aur	1.9000	10200.	90	45935	No
148	GOM_TRA_1PNPDE20101212_231427_000000483097_00231_45935_6257.N1	12-DEC-2010 23:14:27	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	45935	No
149	GOM_TRA_1PNPDE20101212_231826_000000413097_00231_45935_6258.N1	12-DEC-2010 23:18:26	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	45935	No
150	GOM_TRA_1PNPDE20101212_232054_000000573097_00231_45935_6259.N1	12-DEC-2010 23:20:54	Bright	57.000	39	85Eta UMa	1.8540	24000.	114	45935	No
151	GOM_TRA_1PNPDE20101212_232408_000000363097_00231_45935_6260.N1	12-DEC-2010 23:24:08	Bright	35.500	180	27Gam Boo	3.0400	8000.0	71	45935	No
152	GOM_TRA_1PNPDE20101212_233030_000000403097_00231_45935_6261.N1	12-DEC-2010 23:30:30	Bright	40.000	111	8Eta Boo	2.6800	6000.0	80	45935	No
153	GOM_TRA_1PNPDE20101212_233412_000000703097_00231_45935_6262.N1	12-DEC-2010 23:34:12	Bright	70.000	138	47Eps Vir	2.8280	4700.0	140	45935	No
154	GOM_TRA_1PNPDE20101212_234007_000000493097_00231_45935_6260.N1	12-DEC-2010 23:40:07	Twilight	49.000	15	67Alp Vir	0.97600	28000.	98	45935	No
155	GOM_TRA_1PNPDE20101212_234336_000000473097_00231_45935_6261.N1	12-DEC-2010 23:43:36	Twilight	46.500	169	46Gam Hya	2.9910	4700.0	93	45935	No
156	GOM_TRA_1PNPDE20101212_235059_000000463097_00231_45935_6262.N1	12-DEC-2010 23:50:59	Dark	45.500	64	Gam Cen	2.2000	10600.	91	45935	No
157	GOM_TRA_1PNPDE20101212_235233_000000413097_00232_45936_6263.N1	12-DEC-2010 23:52:33	Dark	41.000	99	Del Cen	2.5750	26000.	82	45936	No
158	GOM_TRA_1PNPDE20101212_235614_000000463097_00232_45936_6264.N1	12-DEC-2010 23:56:14	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45936	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).

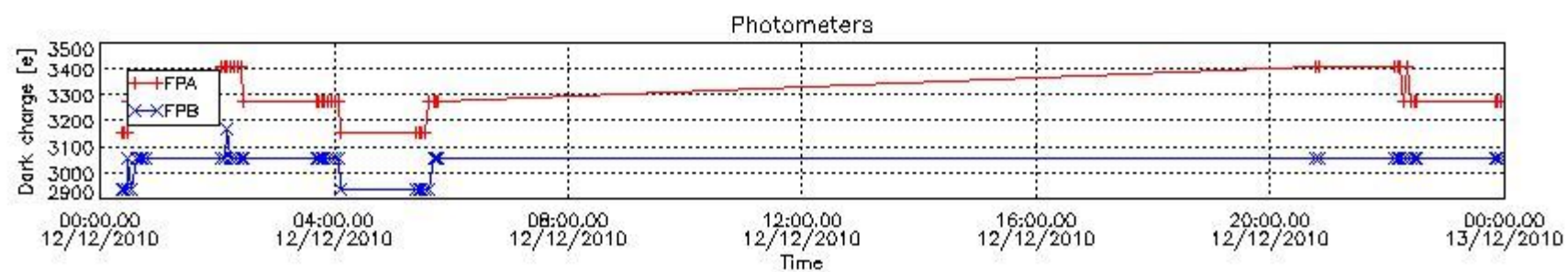
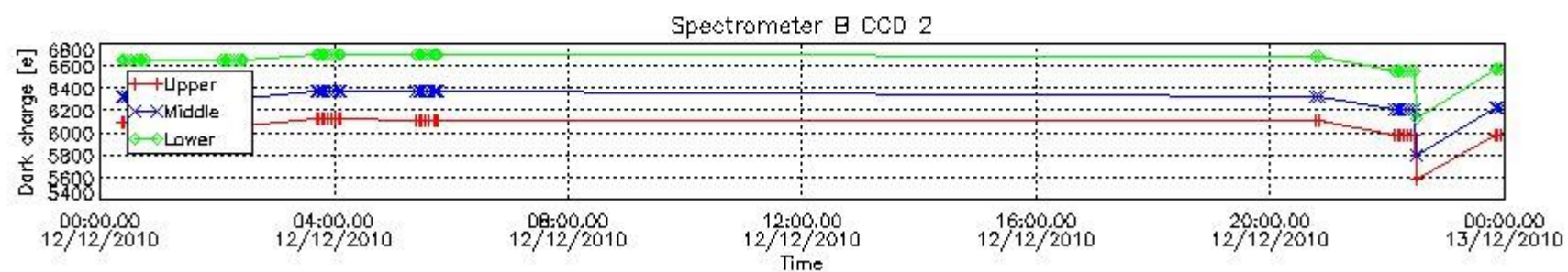
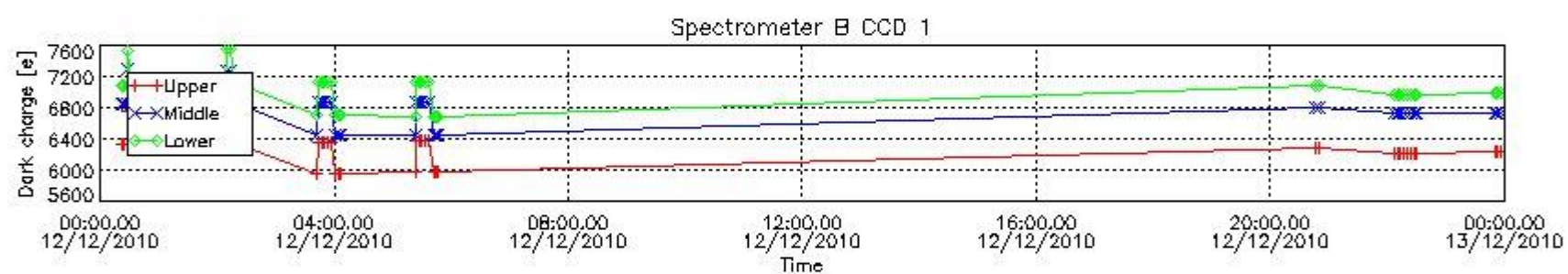
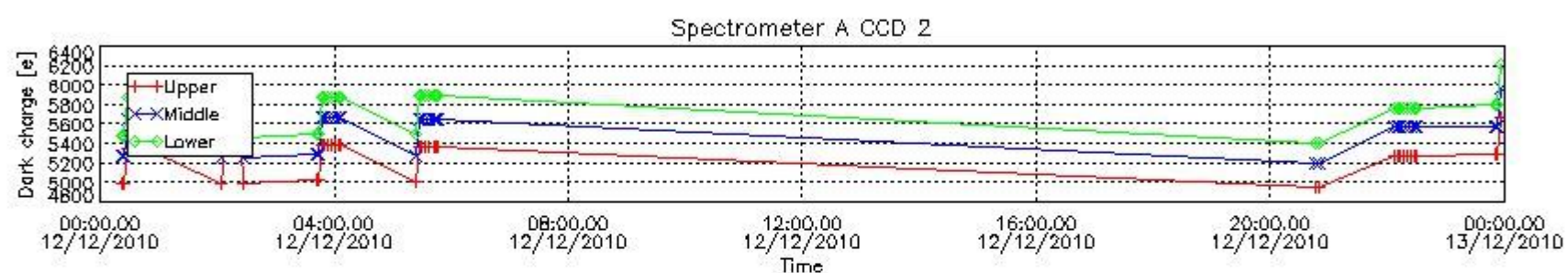
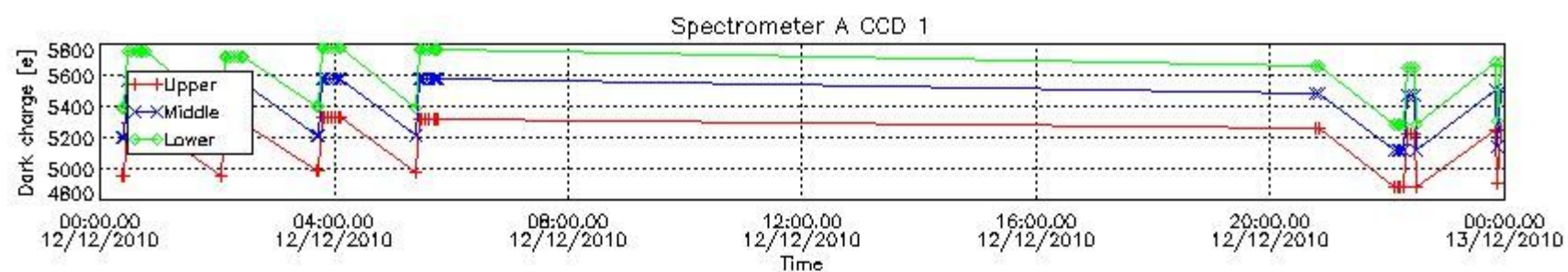
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20101212_204639_000000473097_00230_45934_6216.N1	DC map used
GOM_TRA_1PNPDE20101212_204913_000000553097_00230_45934_6217.N1	DC map used
GOM_TRA_1PNPDE20101212_205234_000000563097_00230_45934_6218.N1	DC map used
GOM_TRA_1PNPDE20101212_205720_000000573097_00230_45934_6219.N1	DC map used
GOM_TRA_1PNPDE20101212_210058_000000523097_00230_45934_6220.N1	DC map used
GOM_TRA_1PNPDE20101212_210319_000000533097_00230_45934_6221.N1	DC map used
GOM_TRA_1PNPDE20101212_210544_000000493097_00230_45934_6222.N1	DC map used
GOM_TRA_1PNPDE20101212_210823_000000503097_00230_45934_6223.N1	DC map used
GOM_TRA_1PNPDE20101212_211052_000000453097_00230_45934_6224.N1	DC map used
GOM_TRA_1PNPDE20101212_211254_000000443097_00230_45934_6225.N1	DC map used
GOM_TRA_1PNPDE20101212_211457_000000353097_00230_45934_6226.N1	DC map used
GOM_TRA_1PNPDE20101212_211640_000000463097_00230_45934_6227.N1	DC map used
GOM_TRA_1PNPDE20101212_211847_000000453097_00230_45934_6228.N1	DC map used
GOM_TRA_1PNPDE20101212_213413_000000473097_00230_45934_6229.N1	DC map used

GOM_TRA_1PNPDE20101212_213813_000000393097_00230_45934_6230.N1	DC map used
GOM_TRA_1PNPDE20101212_214040_000000403097_00230_45934_6231.N1	DC map used
GOM_TRA_1PNPDE20101212_214354_000000373097_00230_45934_6232.N1	DC map used
GOM_TRA_1PNPDE20101212_215016_000000403097_00230_45934_6233.N1	DC map used
GOM_TRA_1PNPDE20101212_215357_000000503097_00230_45934_6234.N1	DC map used

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



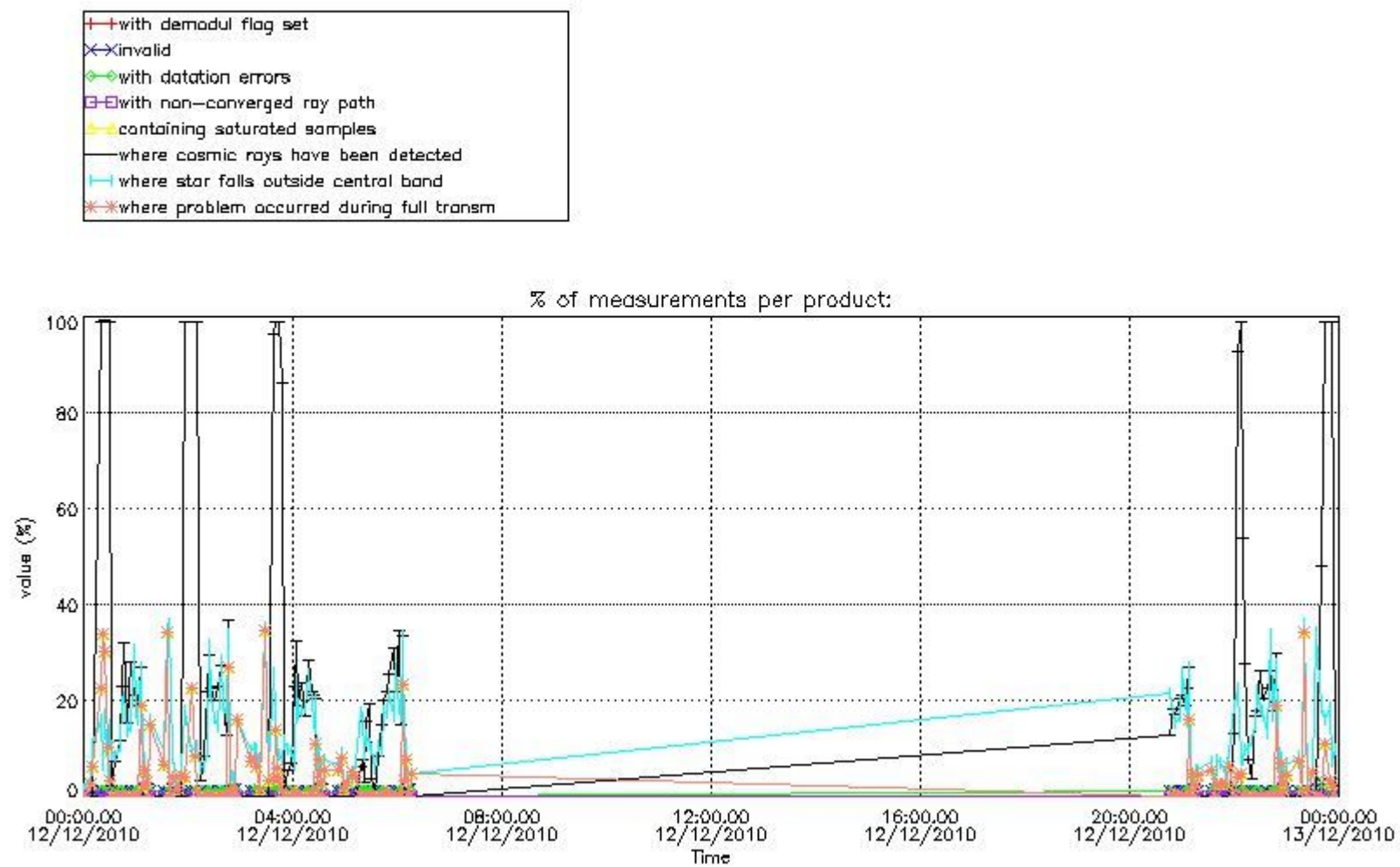
5. Demodulation flag and quality information monitoring

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.

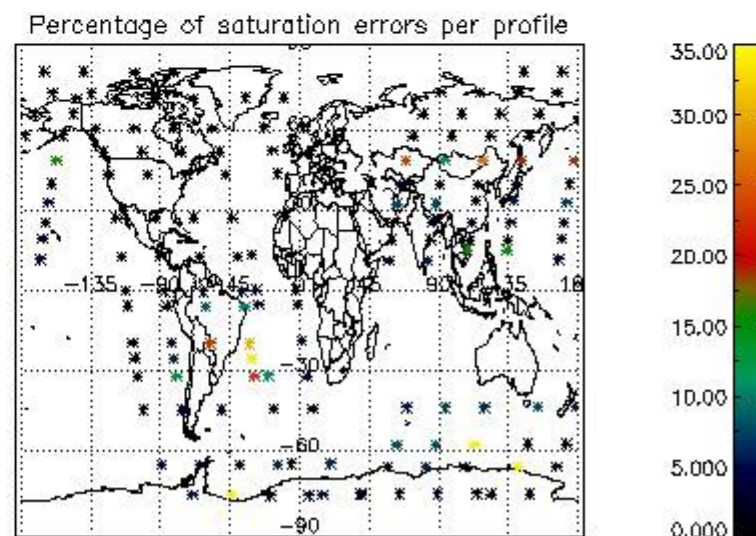
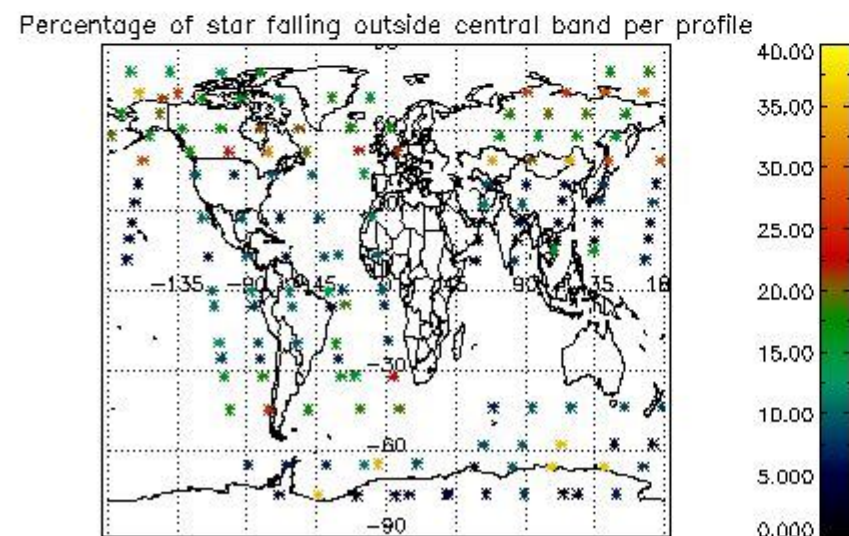
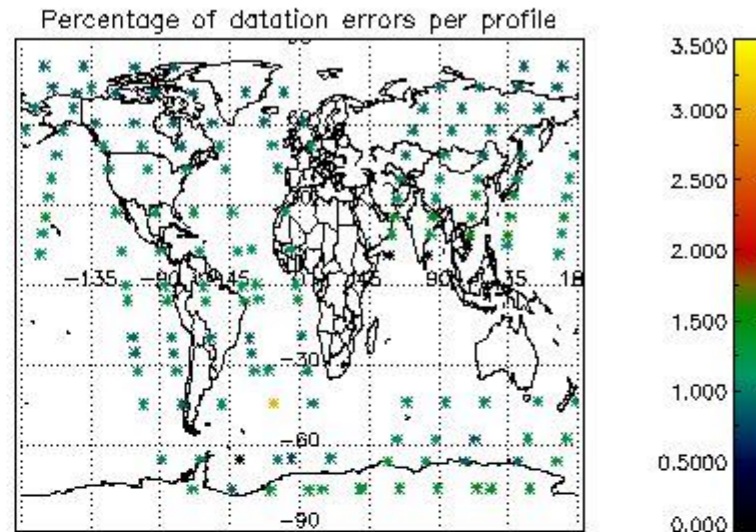
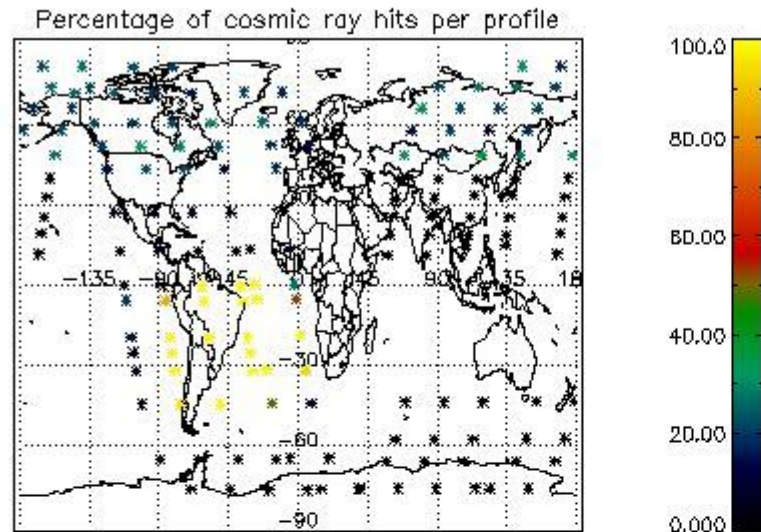
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	59.8726 %
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)



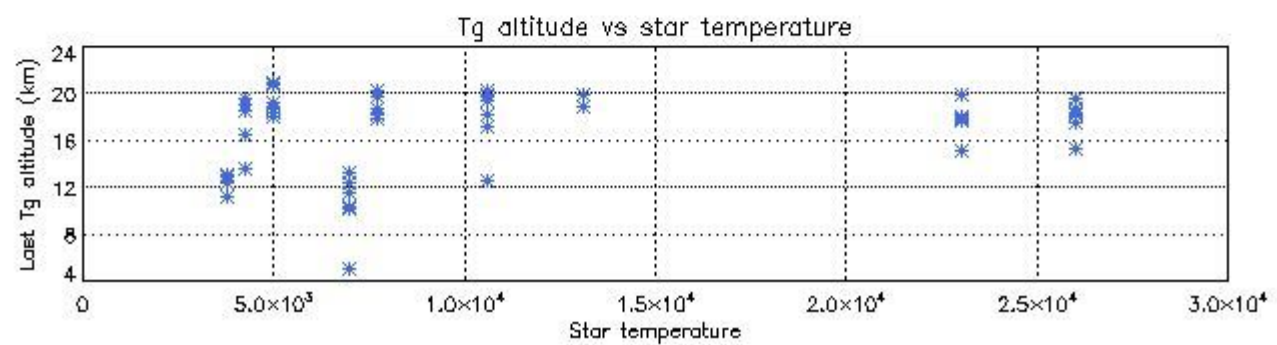
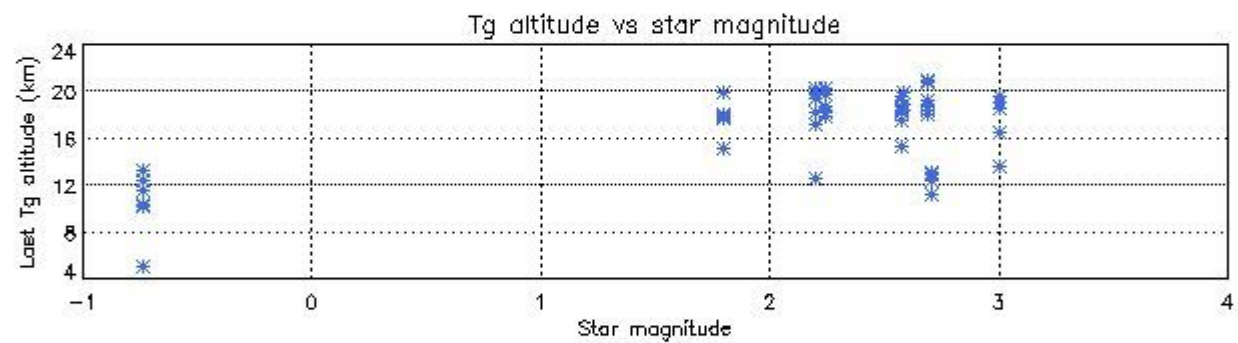
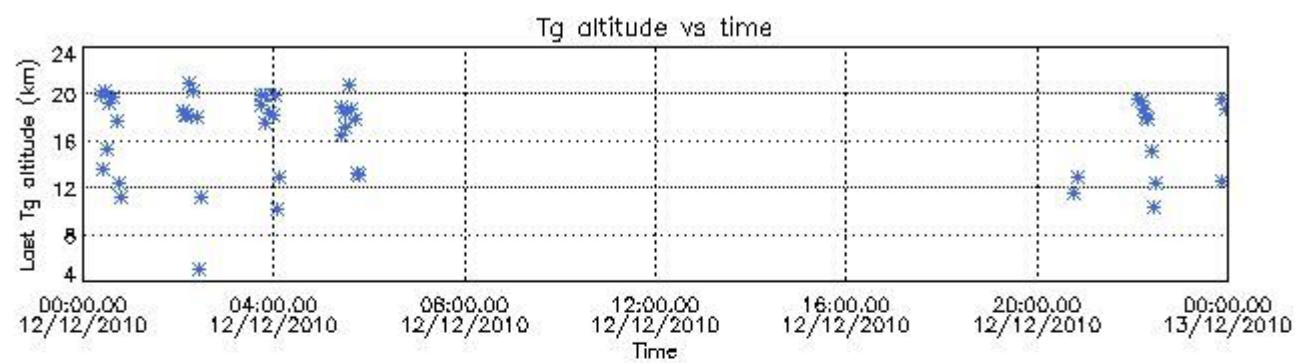
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.583	20.239	12.919
St. deviation:	3.6197	6.2752	1.1974
Maximum:	20.939	38.489	14.306
Minimum:	5.0621	3.7350	11.138
Number of data:	48.000	61.000	5.0000

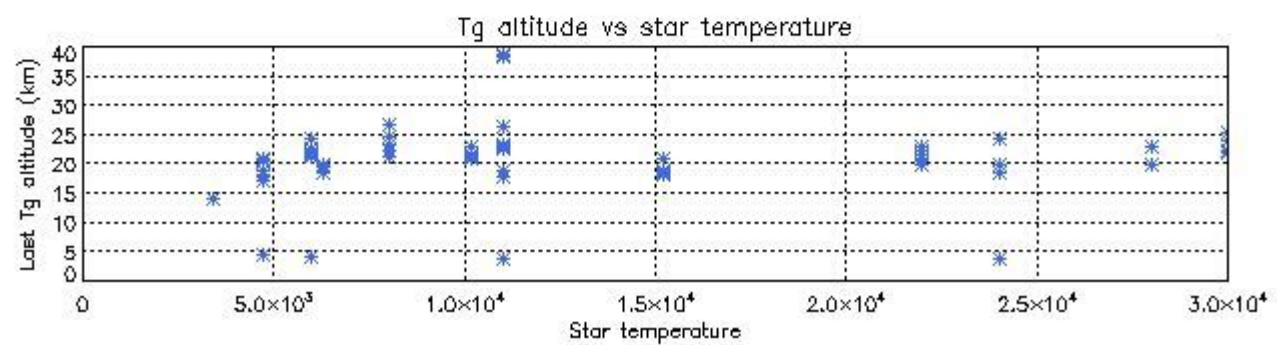
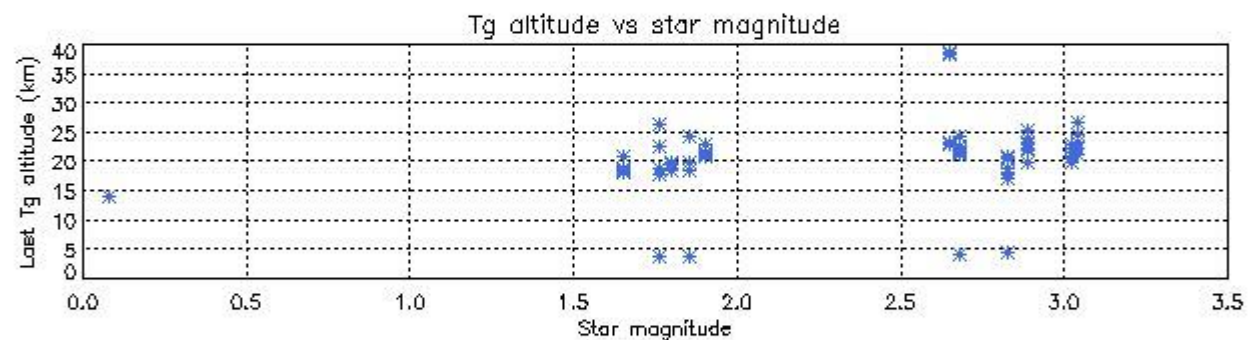
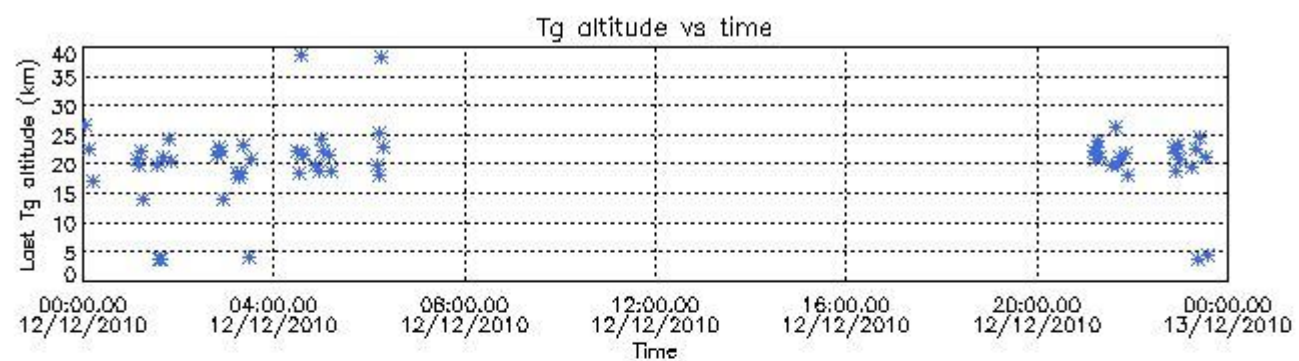
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



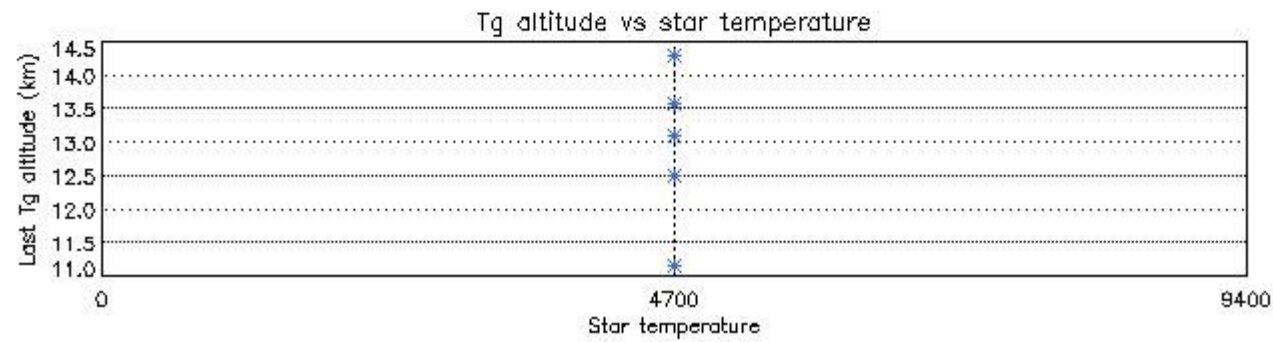
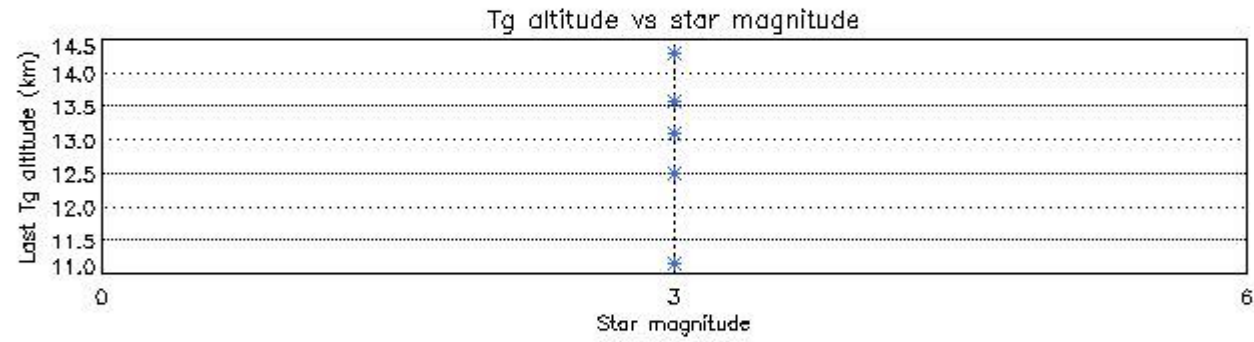
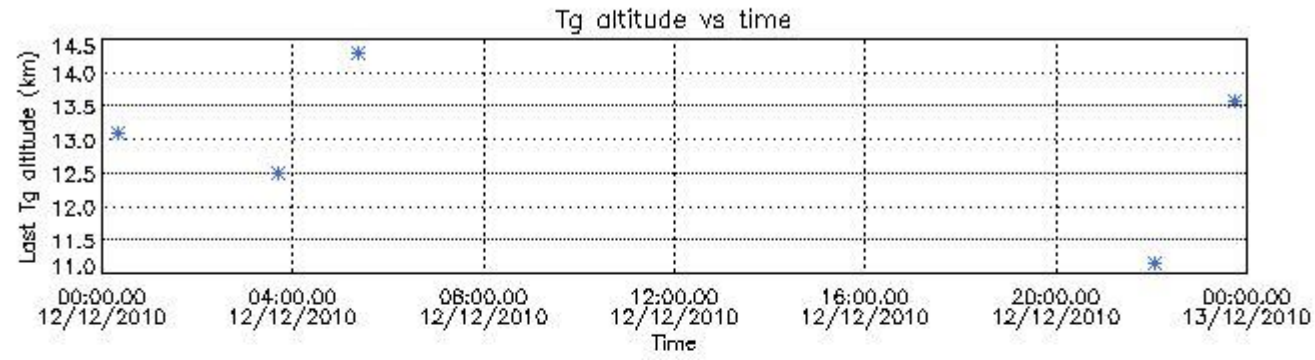
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

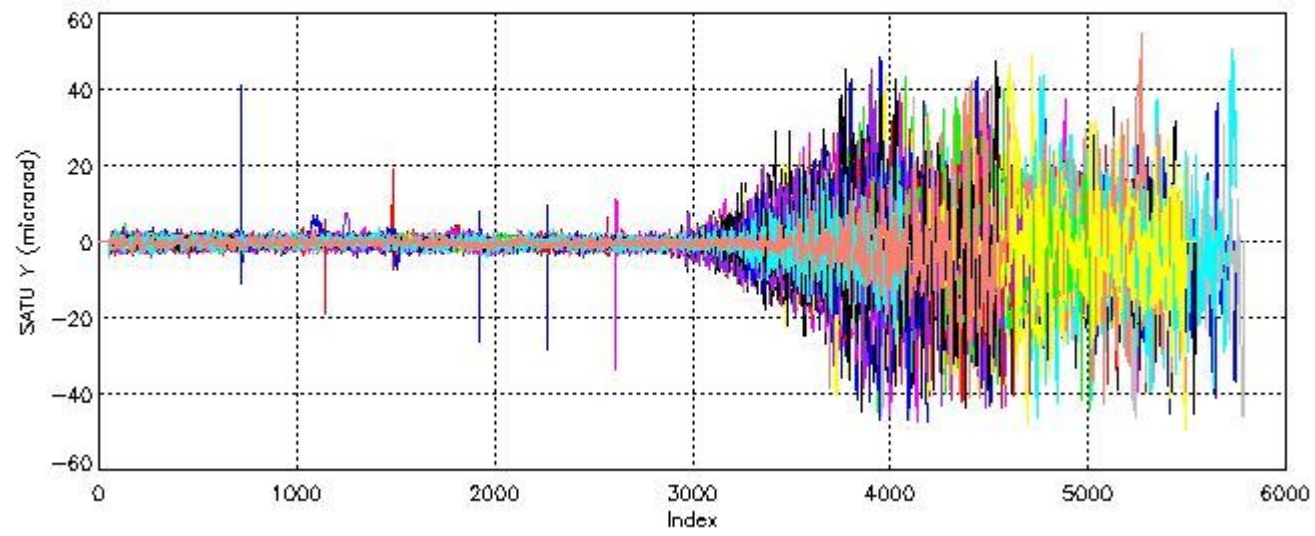
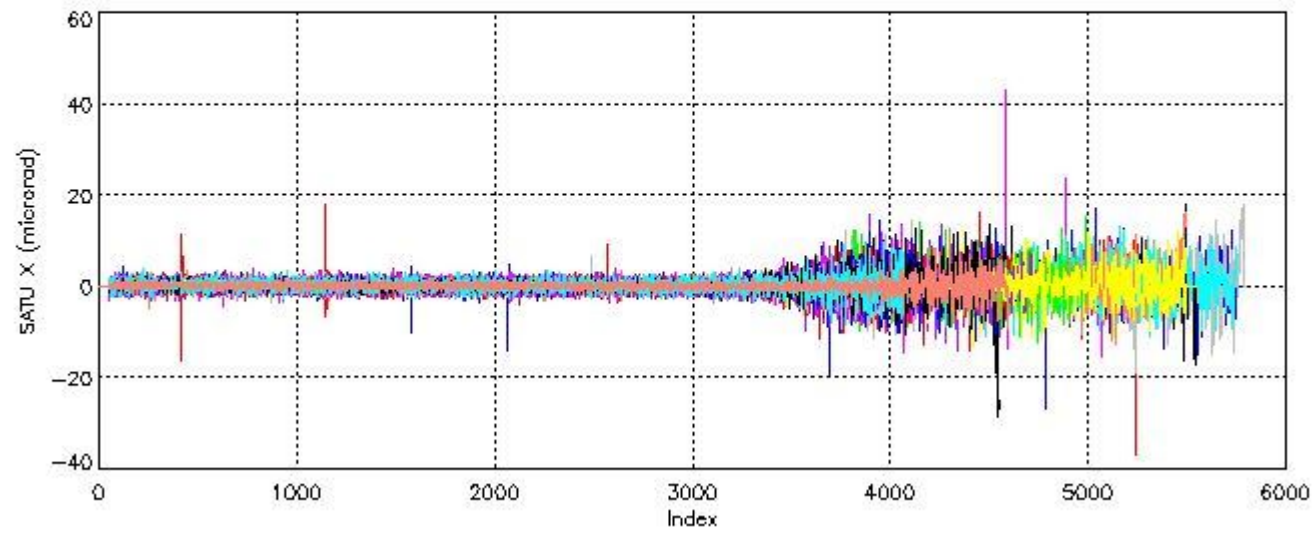


7. Star Acquisition and Tracking Unit (SATU)

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:	0.19323	-0.31054	0.17645	-0.21946
St. deviation:	0.56953	0.71314	0.97874	1.1193
Maximum:	11.300	41.000	7.3000	7.3000
Minimum:	-16.500	-11.100	-7.6000	-8.4000

Number of data:	52400.	52400.	61150.	61150.
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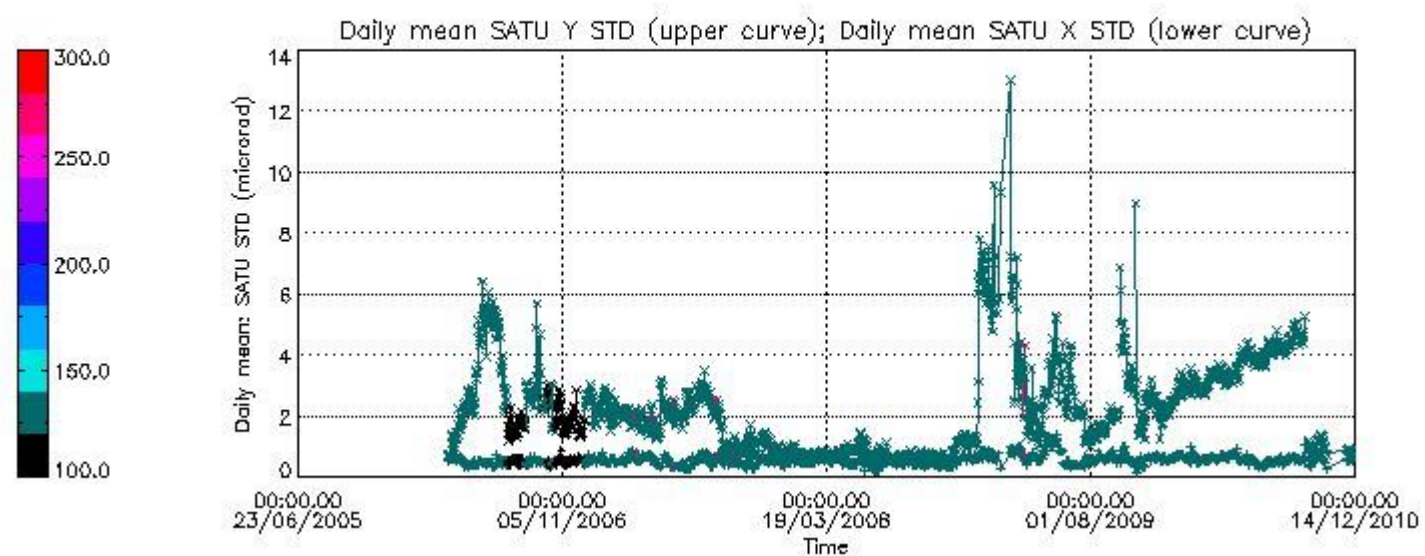
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

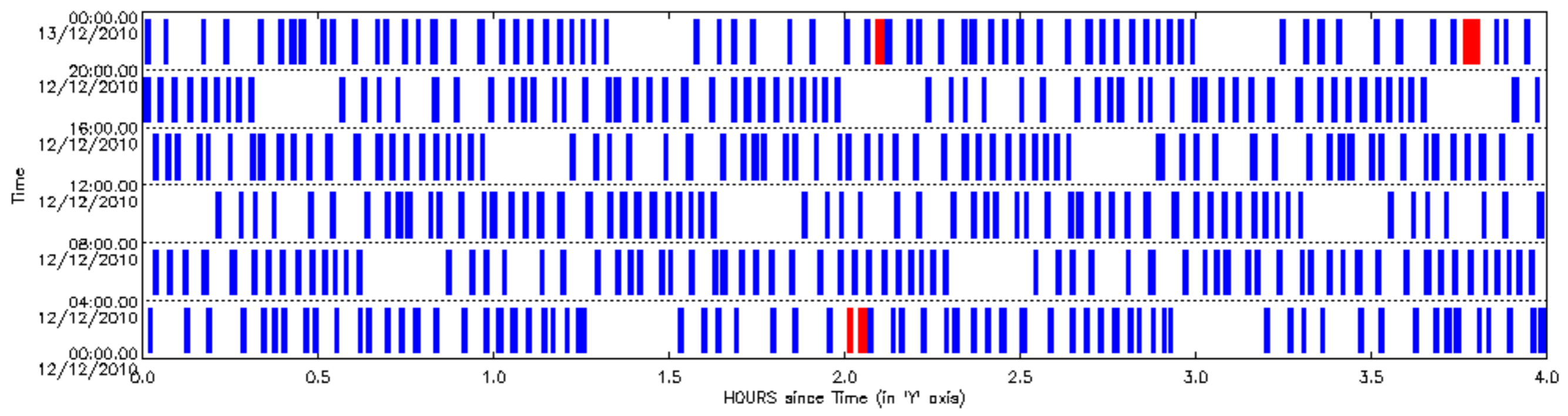
Lower curve: STD of SATU X axis

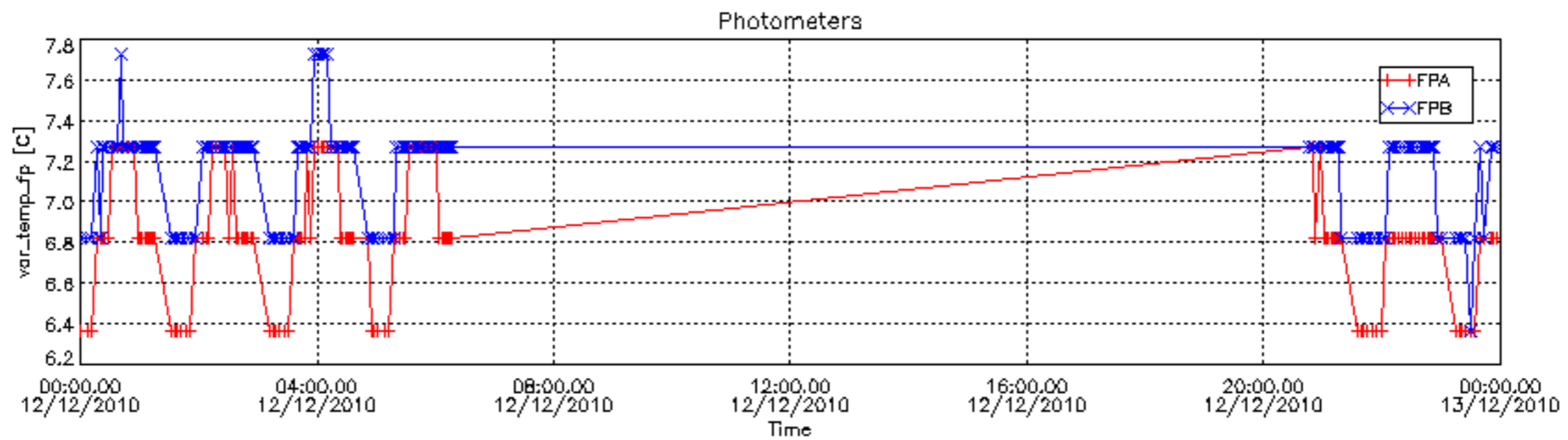
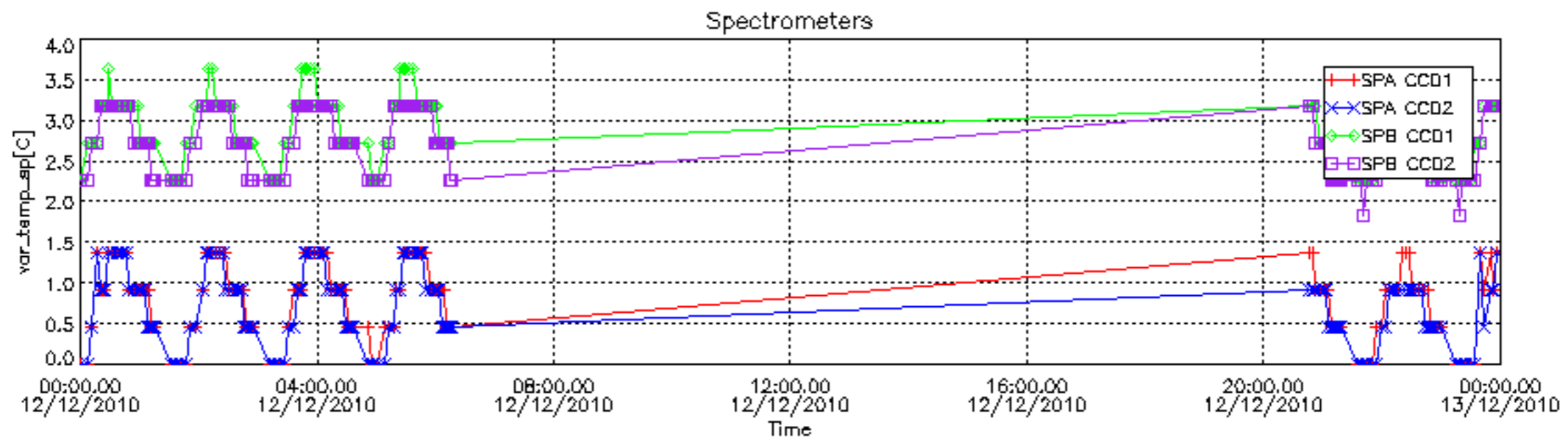


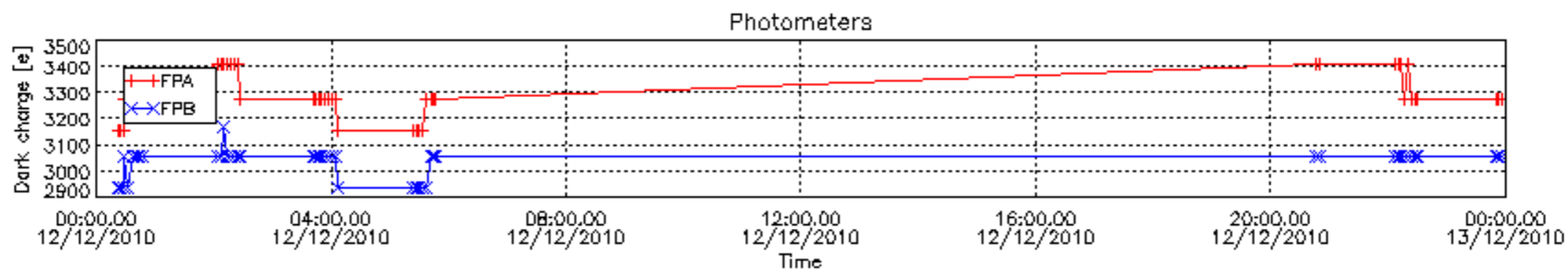
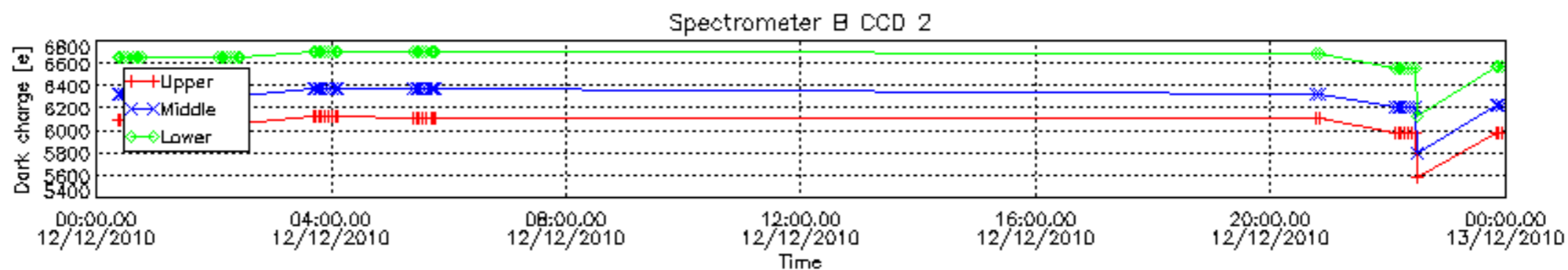
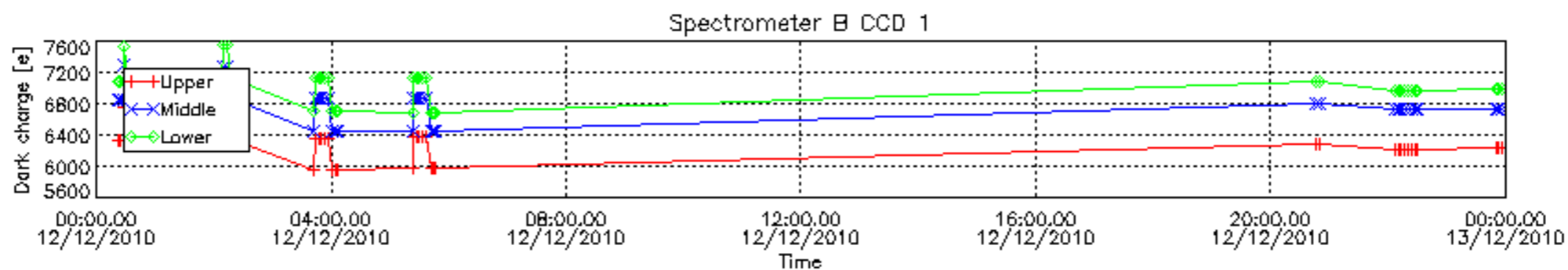
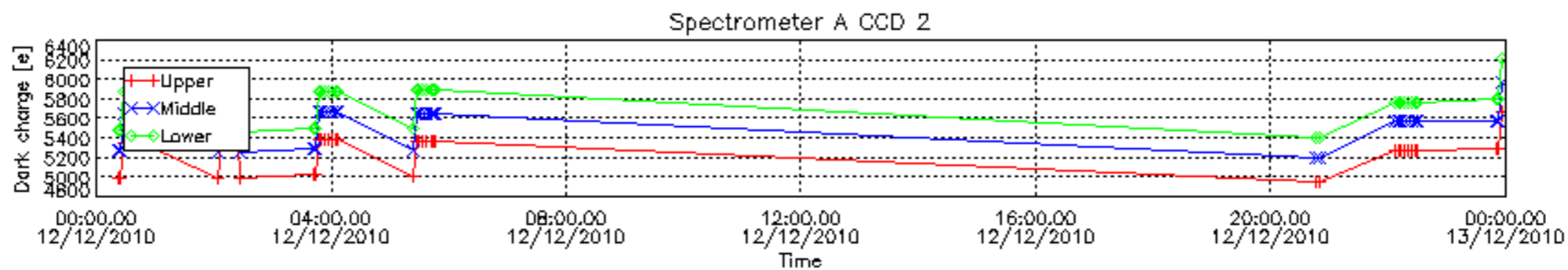
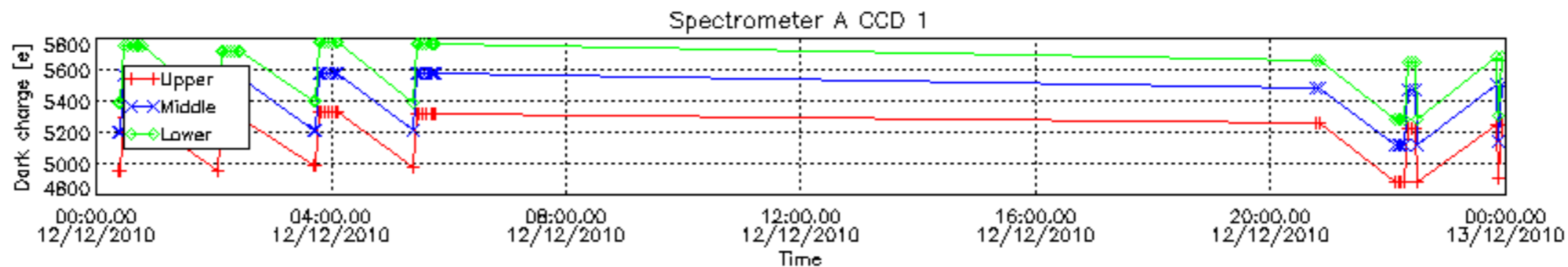
8. Auxiliary Data Files used for the production reported in section 2.4

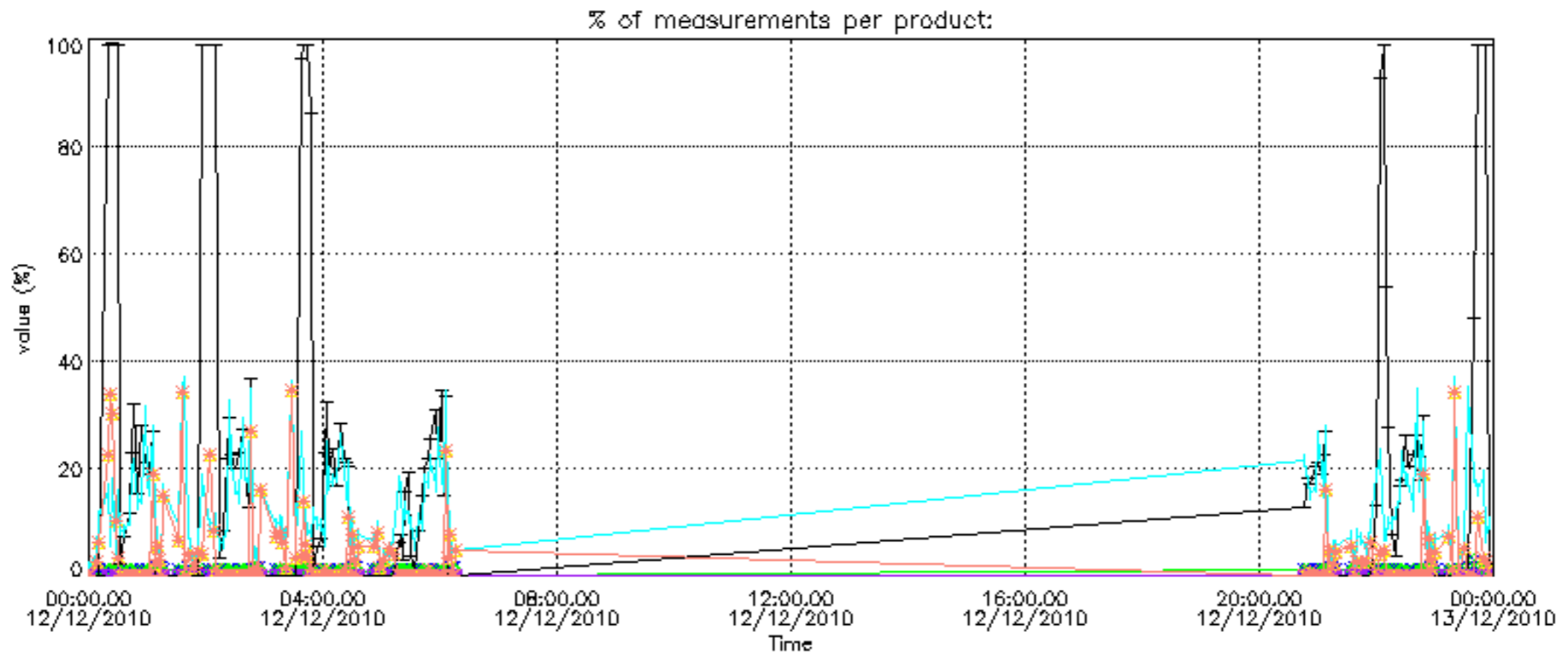
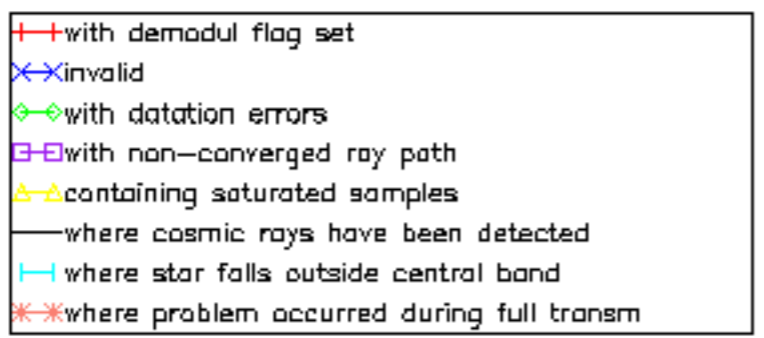
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101201_093519_20101129_000000_20500101_000000	1	12-DEC-2010 00:00:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	12-DEC-2010 00:00:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-DEC-2010 00:00:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	12-DEC-2010 00:00:51
ECMWF_FILE	AUX_ECF_AXNECM20101211_060114_20101211_210000_20101212_090000	1	12-DEC-2010 00:00:51
ECMWF_FILE	AUX_ECF_AXNECM20101211_174115_20101212_030000_20101212_150000	52	12-DEC-2010 03:11:44
ECMWF_FILE	AUX_ECF_AXNECM20101212_054115_20101212_150000_20101213_030000	108	12-DEC-2010 20:46:39
ECMWF_FILE	AUX_ECF_AXNECM20101212_054116_20101212_210000_20101213_090000	127	12-DEC-2010 21:59:52
OPTIONAL_ECMWF_FILE	MISSING	1	12-DEC-2010 00:00:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101211_223812_000054193097_00216_45920_2108.N1	1	12-DEC-2010 00:00:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101212_001350_000057383097_00217_45921_2109.N1	4	12-DEC-2010 00:16:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101212_014928_000044633097_00218_45922_2110.N1	32	12-DEC-2010 01:56:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101212_030910_000057383097_00219_45923_2111.N1	52	12-DEC-2010 03:11:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101212_045007_000057383097_00220_45924_2112.N1	80	12-DEC-2010 04:51:58
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101212_215534_000057383097_00230_45934_2114.N1	127	12-DEC-2010 21:59:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101212_233631_000057383097_00231_45935_2115.N1	154	12-DEC-2010 23:40:07

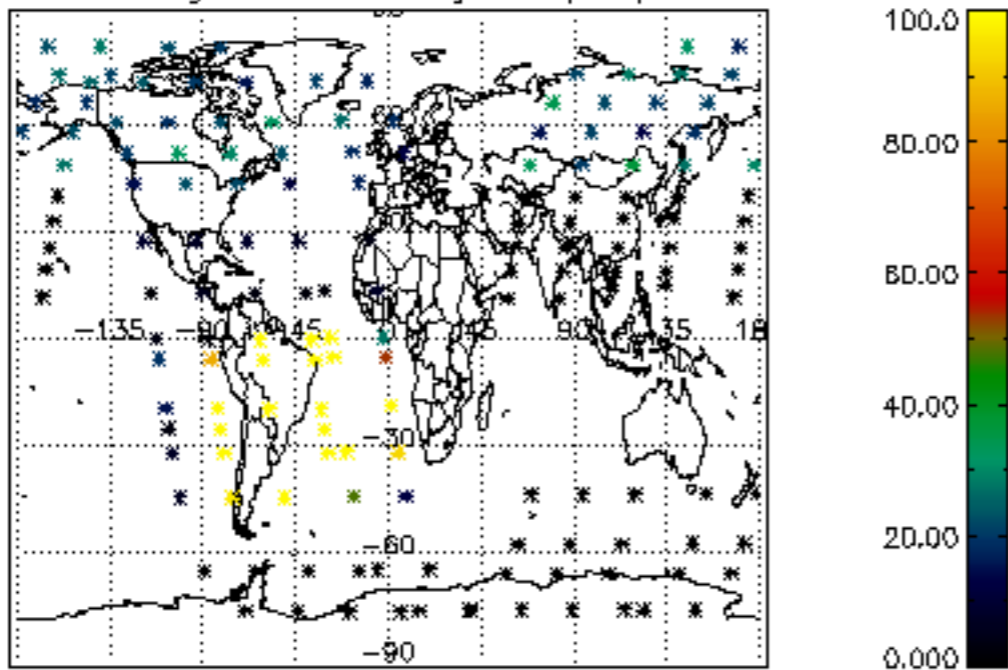




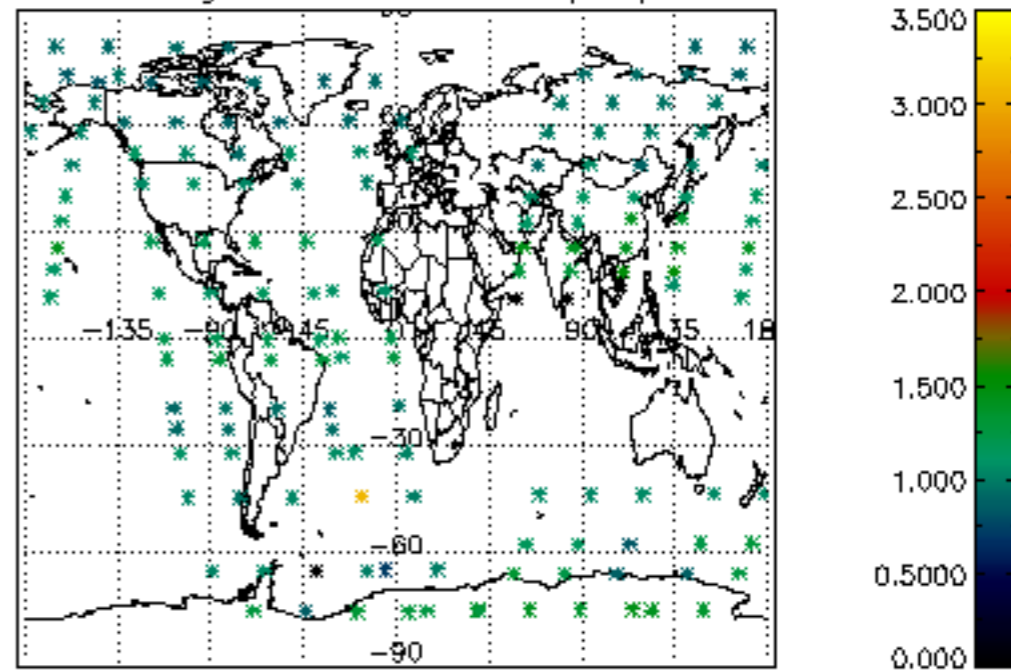




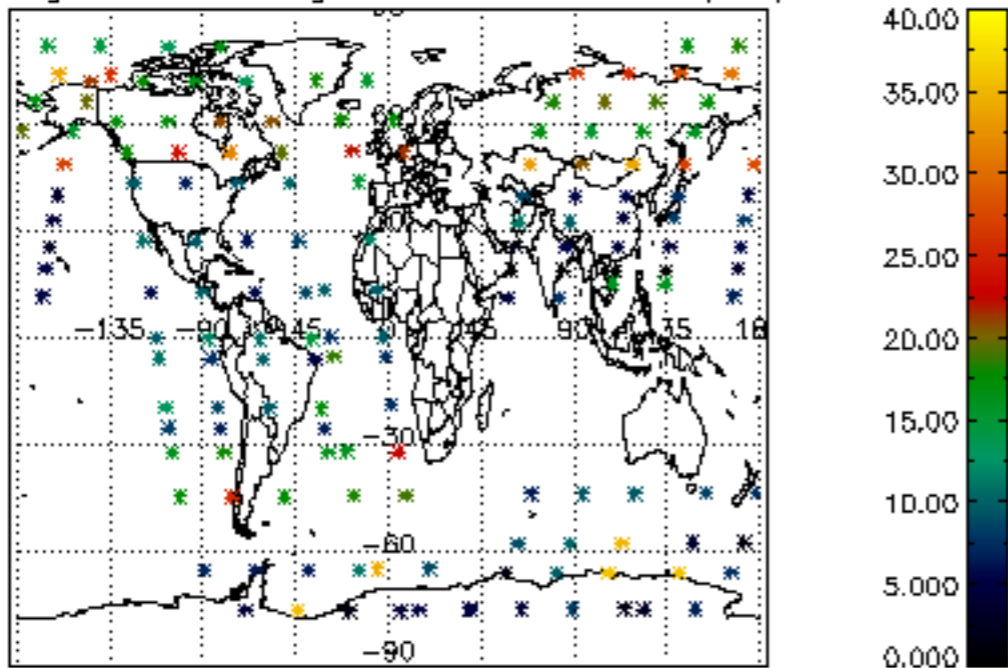
Percentage of cosmic ray hits per profile



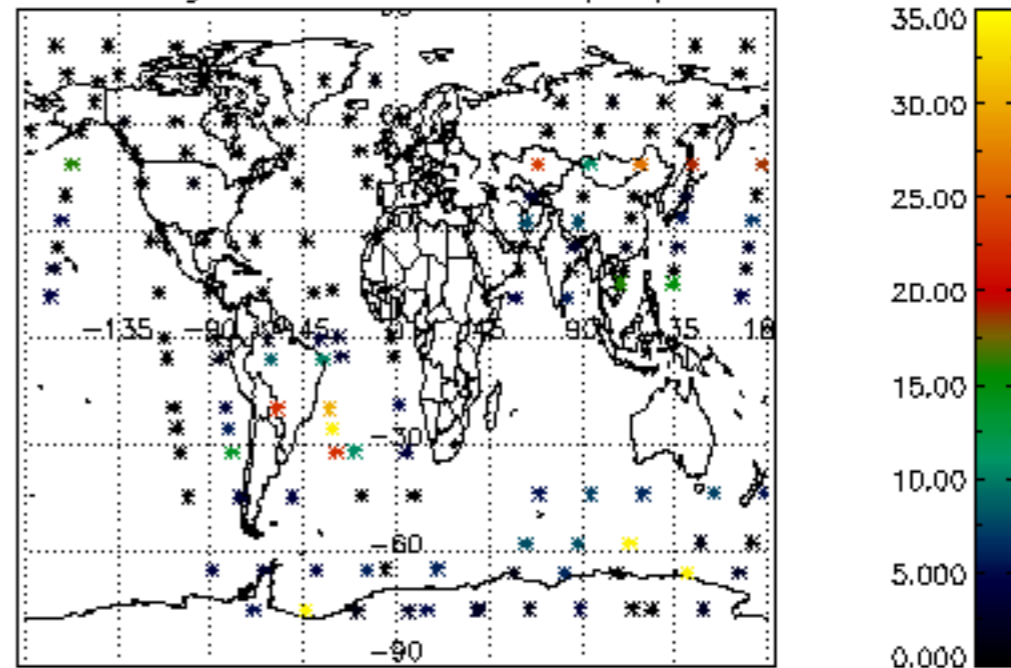
Percentage of datation errors per profile



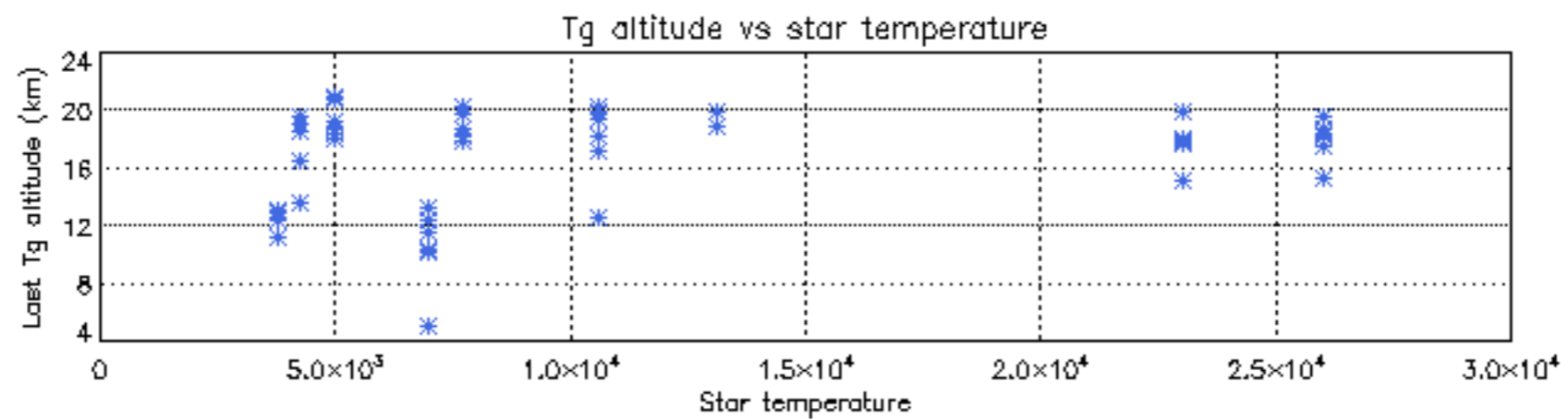
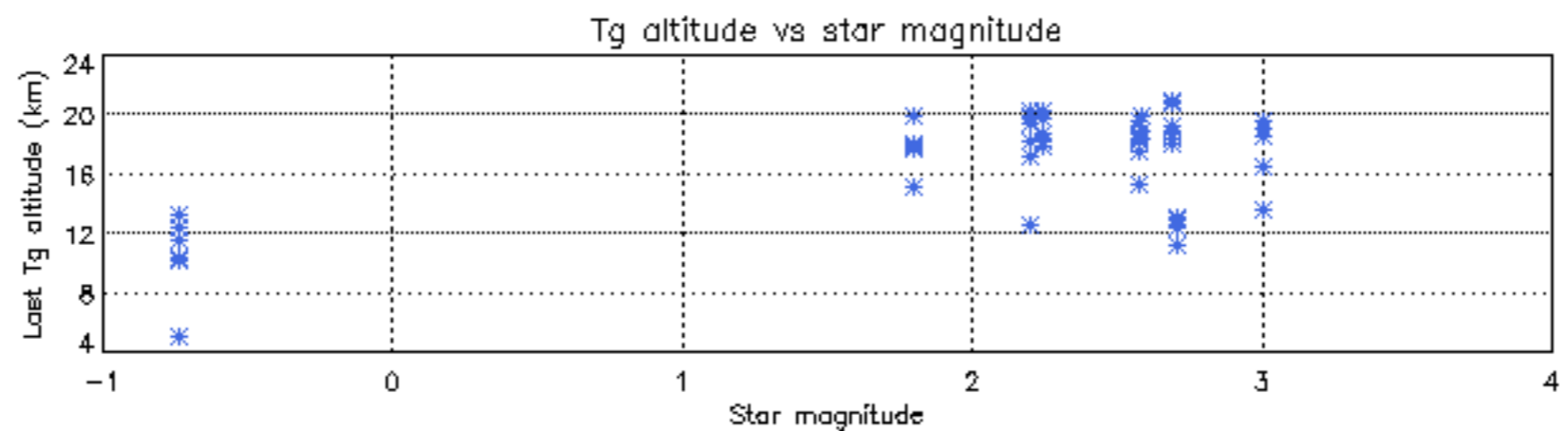
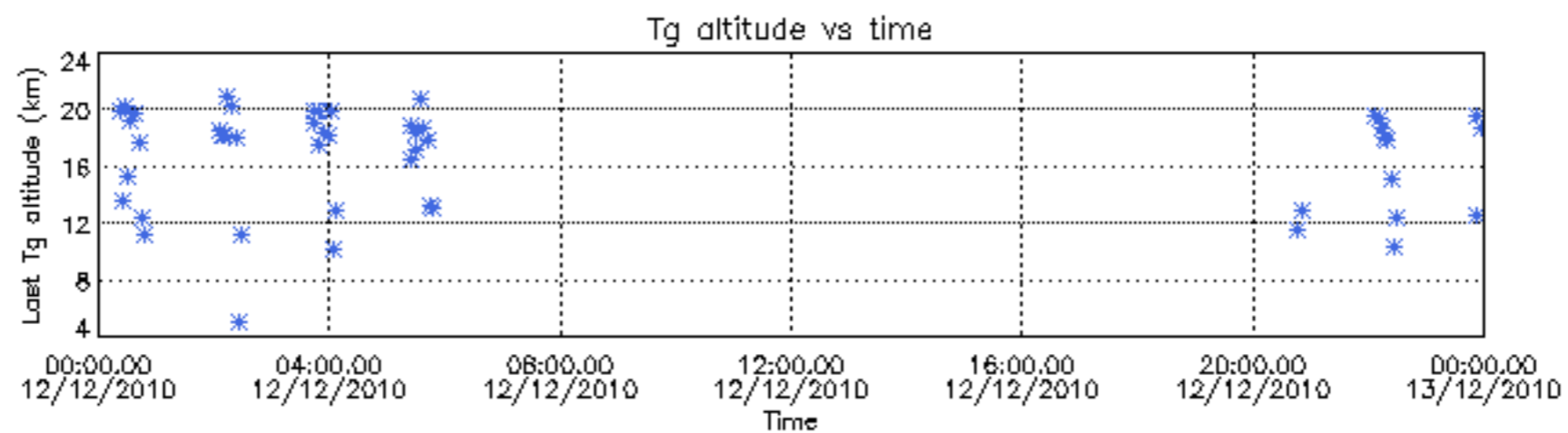
Percentage of star falling outside central band per profile



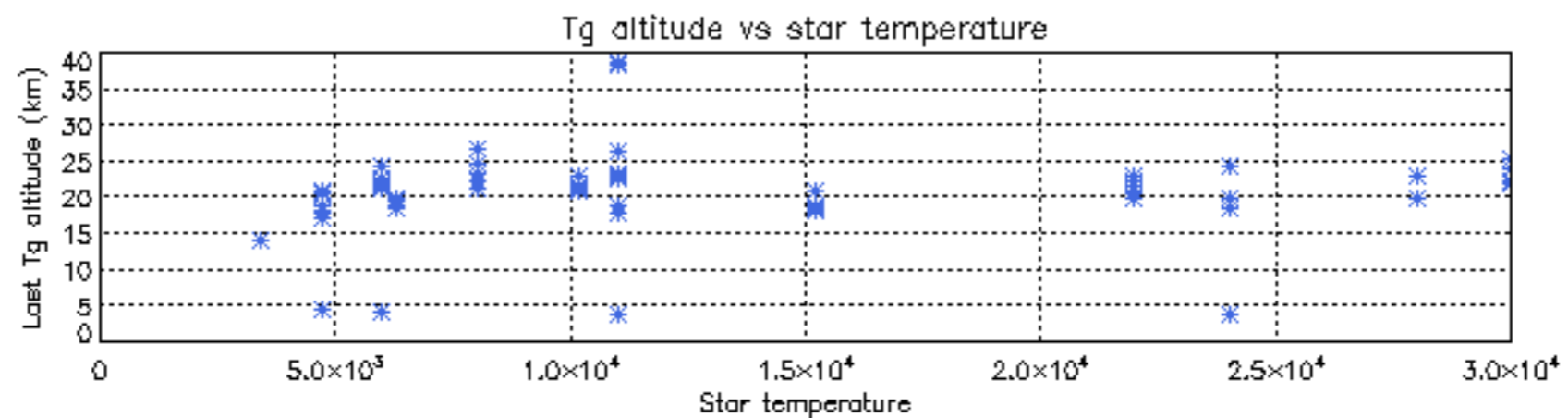
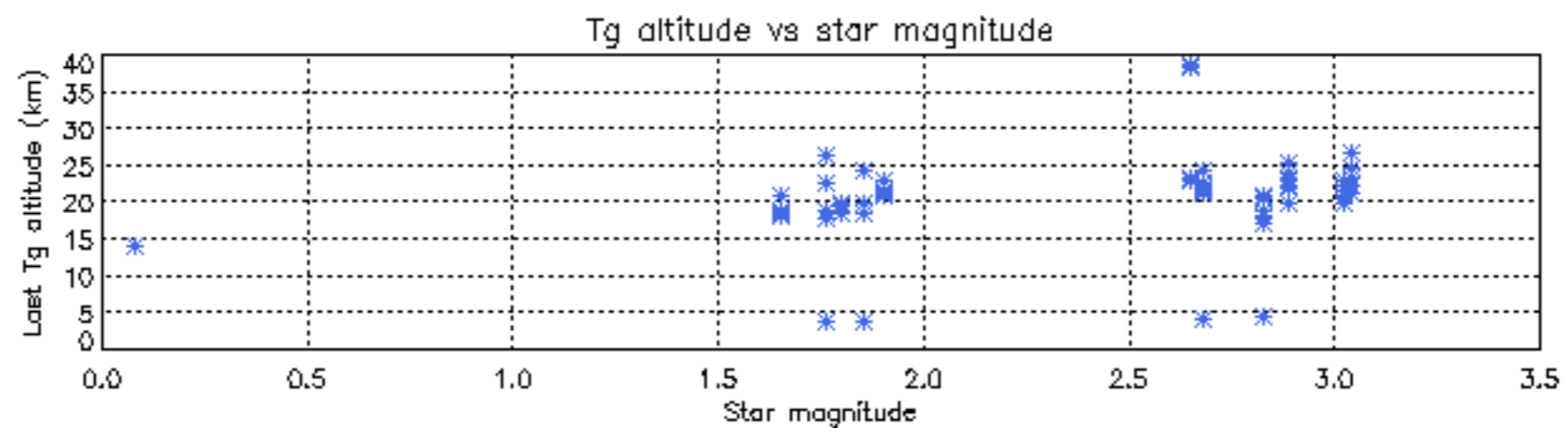
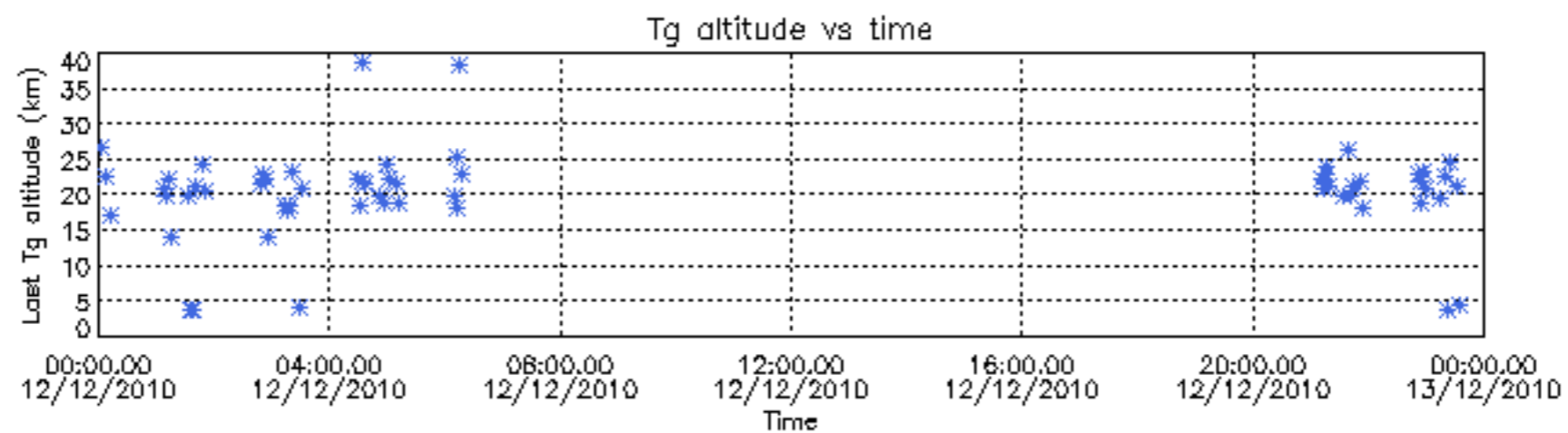
Percentage of saturation errors per profile



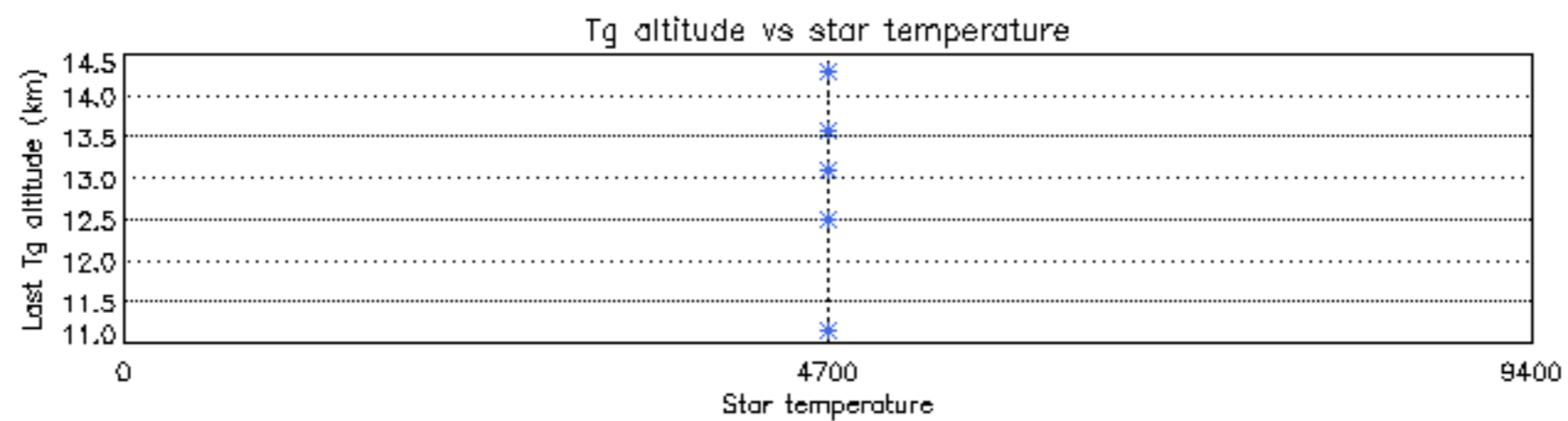
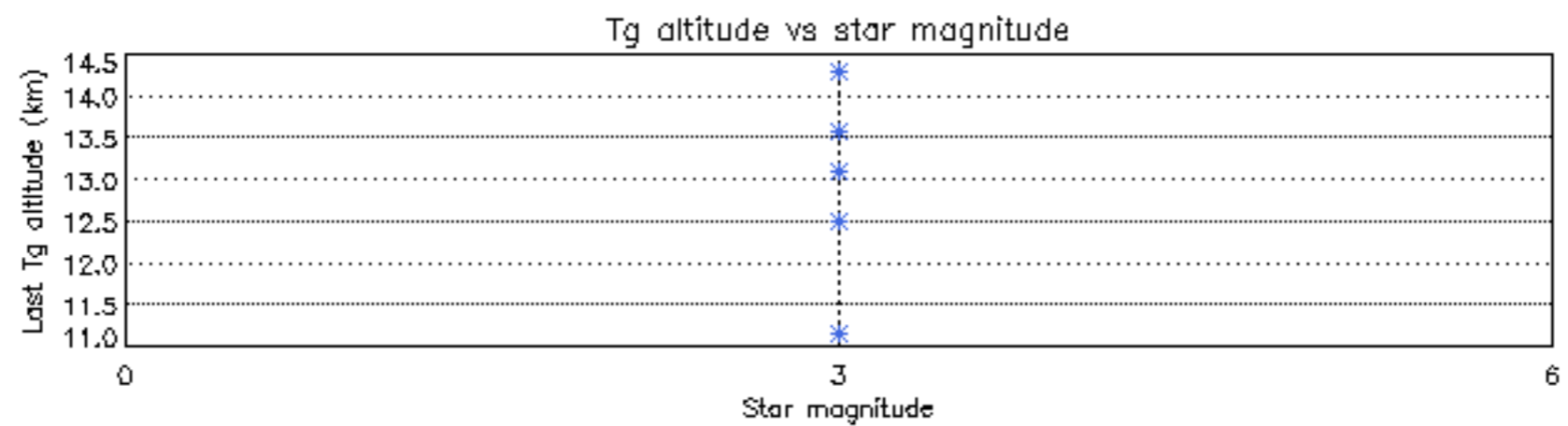
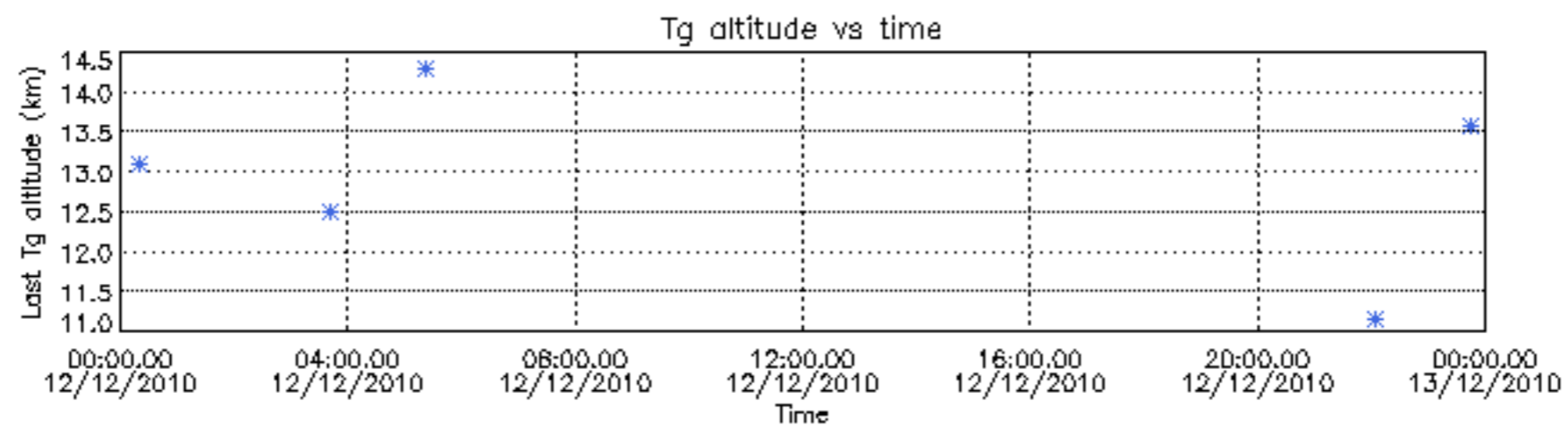
Tangent altitude at which the star is lost

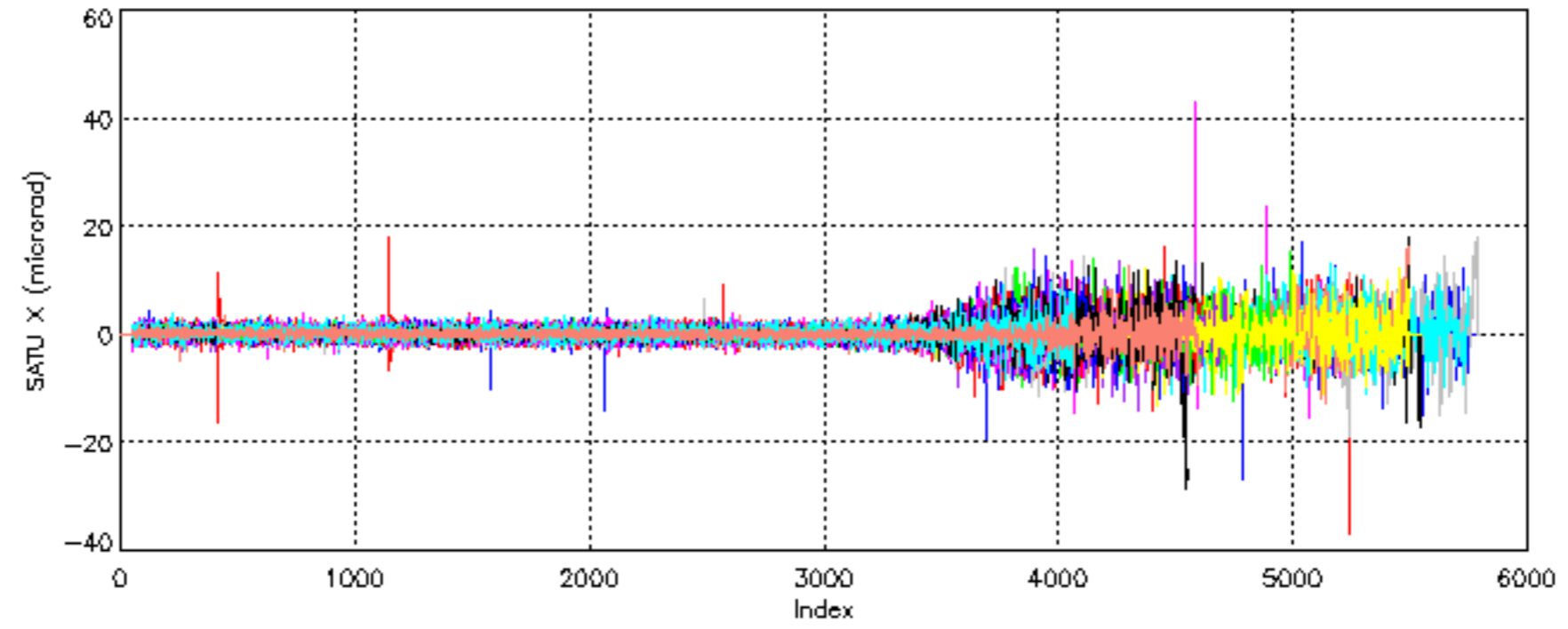


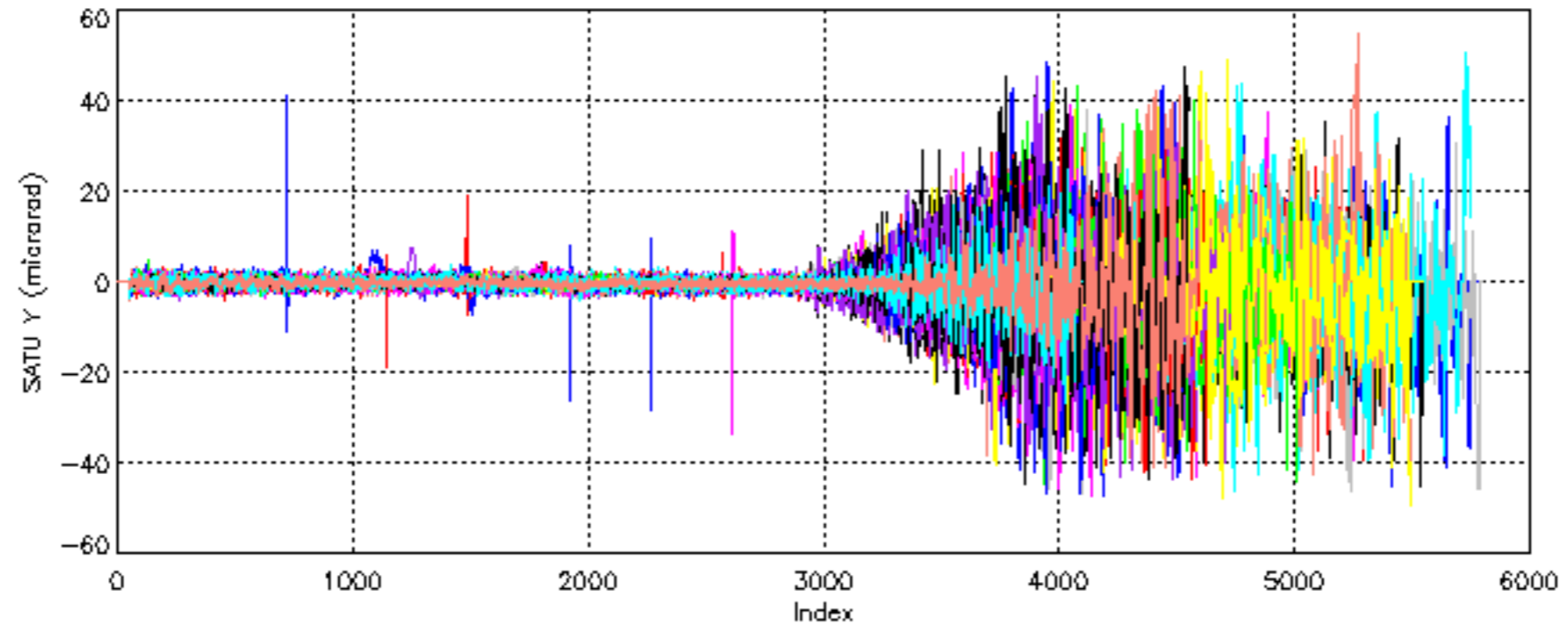
Tangent altitude at which the star is lost

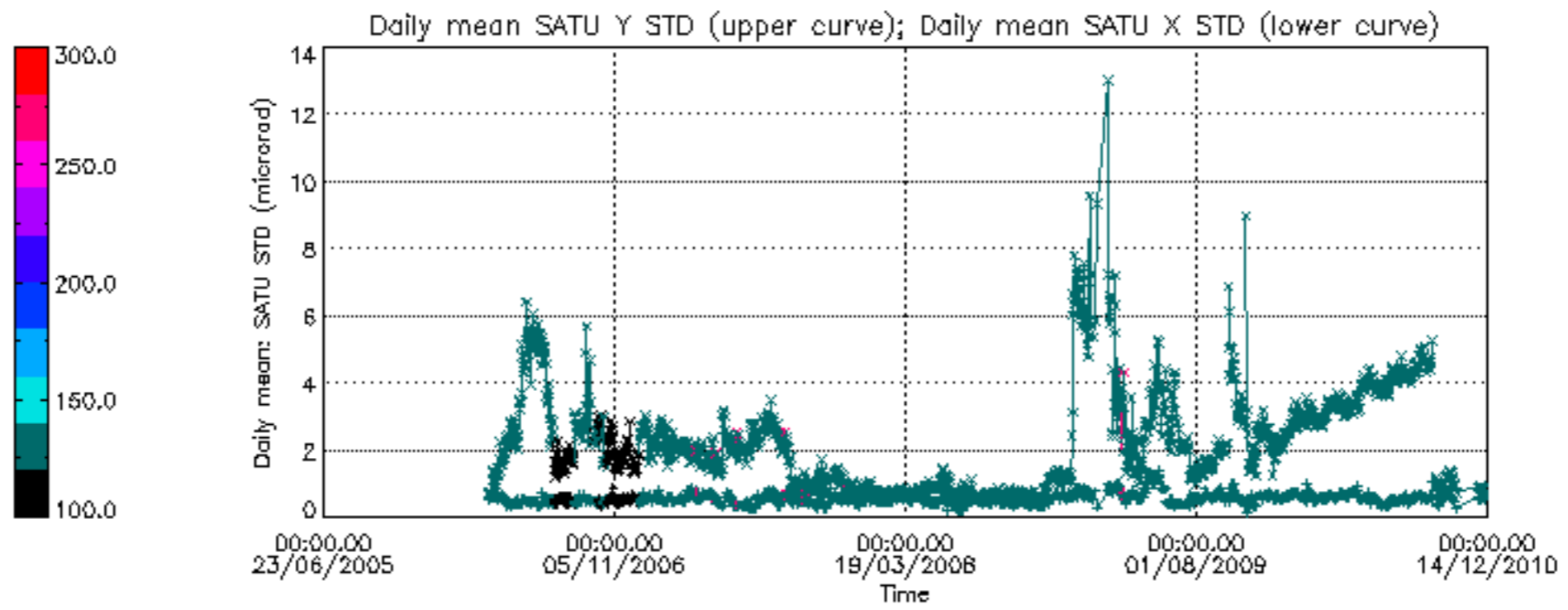


Tangent altitude at which the star is lost









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 11; 3798.6; 01-DEC-2010 14:57:27; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;45772
 12; 3893.9; 01-DEC-2010 14:59:03; Bright; 45.5; 82; 48Bet UMa ; 2.37; 10600;occ; 91; 0;45772
 13; 3993.8; 01-DEC-2010 15:00:43; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;45772
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 13; 3993.6; 01-DEC-2010 16:40:57; Bright; 37.5; 32; 77Eps UMa ; 1.76; 11000;occ; 75; 0;45773
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 7; 2313.3; 01-DEC-2010 17:53:10; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;45774
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11; 3878.5; 05-DEC-2010 02:30:29; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 27;45822
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13; 4120.1; 05-DEC-2010 02:34:30; Bright; 48.5; 39; 85Eta UMa ; 1.85; 24000;occ; 97; 50;45822
14; 4345.1; 05-DEC-2010 02:38:16; Bright; 41.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 83; 59;45822
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16; 4862.1; 05-DEC-2010 02:46:52; Bright; 23.5; 138; 47Eps Vir ; 2.83; 4700;occ; 47; 17;45822
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26; 8214.9; 05-DEC-2010 03:42:45; Dark ; 59.5; 13; 87Alp Tau ; 0.87; 3800;occ; 119; 39;45823
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 9; 1214.5; 06-DEC-2010 22:52:24; Dark ; 44.5; 108; Alp Col ; 2.65; 15200;occ; 89; 0;45849
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 13; 4120.3; 06-DEC-2010 08:38:43; Bright; 35.5; 39; 85Eta UMA ; 1.85; 24000;occ; 71; 0;45840
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25;	2179.0;	14-DEC-2010	06:33:01;	Dark	;	54.5;	13;	87Alp Tau	;	0.87;	3800;occ;	109;	0;	45954
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27;	2443.5;	14-DEC-2010	06:37:26;	Bright;	43.5;	28;	12Bet Tau	;	1.65;	15200;occ;	87;	0;	45954	
28;	2664.9;	14-DEC-2010	06:41:07;	Bright;	44.5;	107;	37The Aur	;	2.65;	11000;occ;	89;	0;	45954	
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 28; 7257.7; 14-DEC-2010 14:38:36; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;45959

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 6; 249.8; 15-DEC-2010 00:23:26; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45965
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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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 15; 1873.6; 15-DEC-2010 00:50:30; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;45965
 16; 2065.4; 15-DEC-2010 00:53:42; Dark ; 62.5; 14; 58Alp Ori ; 0.87; 3000;occ; 125; 0;45965
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3;-1896.8; 15-DEC-2010 04:48:22; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;45967
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5;-1507.0; 15-DEC-2010 04:54:51; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0;45967
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15; 4709.9; 16-DEC-2010 14:22:55; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;45987
16; 4949.2; 16-DEC-2010 14:26:54; Bright; 42.0; 138; 47Eps Vir ; 2.83; 4700;occ; 84; 0;45987
17; 5307.5; 16-DEC-2010 14:32:52; Dark ; 55.5; 15; 67Alp Vir ; 0.98; 28000;occ; 111; 0;45987
18; 5517.2; 16-DEC-2010 14:36:22; Dark ; 50.0; 169; 46Gam Hya ; 2.99; 4700;occ; 100; 0;45987
19; 5668.5; 16-DEC-2010 14:38:53; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;45987
20; 5765.4; 16-DEC-2010 14:40:30; Dark ; 52.0; 171; 2Eps Crv ; 3.00; 4250;occ; 104; 0;45987
21; 5955.2; 16-DEC-2010 14:43:40; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;45987
22; 6053.1; 16-DEC-2010 14:45:18; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;45988
23; 6284.3; 16-DEC-2010 14:49:09; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;45988
24; 6509.0; 16-DEC-2010 14:52:54; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;45988
25; 6597.6; 16-DEC-2010 14:54:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45988
26; 6788.2; 16-DEC-2010 14:57:33; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;45988
27; 6915.4; 16-DEC-2010 14:59:40; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;45988
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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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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 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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 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
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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; 2634.5; 17-DEC-2010 16:32:04; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;46003
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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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21; 5687.6; 17-DEC-2010 19:03:11; Dark ; 57.5; 106; 9Bet Crv ; 2.65; 5600;occ; 115; 0;46004
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13; 3937.3; 22-DEC-2010 17:10:37; Bright; 45.5; 32; 77Eps UMa ; 1.76; 11000;occ; 91; 0;46075
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 22; 6105.3; 22-DEC-2010 17:46:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46076
 23; 6363.9; 22-DEC-2010 17:51:03; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46076
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 14; 4108.3; 22-DEC-2010 18:53:42; Bright; 40.0; 39; 85Eta UMa ; 1.85; 24000;occ; 80; 0;46076
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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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 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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 23; 6682.1; 24-DEC-2010 13:22:26; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0;46102
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13;	3680.5;	24-DEC-2010	19:13:21;	Bright;	;	54.0;	60;	7Bet UMi	;	2.08;	3950;occ;	108;	0;	46105
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19;	5276.0;	24-DEC-2010	19:39:56;	Bright;	;	37.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	74;	0;	46105
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24;	6131.4;	24-DEC-2010	19:54:11;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	46106
25;	6391.1;	24-DEC-2010	19:58:31;	Dark	;	50.5;	113;	Mu Vel	;	2.69;	5000;occ;	101;	0;	46106
26;	6579.9;	24-DEC-2010	20:01:40;	Dark	;	42.5;	71;	Iot Car	;	2.25;	7700;occ;	85;	0;	46106
27;	6684.2;	24-DEC-2010	20:03:24;	Dark	;	56.5;	41;	Eps Car	;	1.86;	4100;occ;	113;	0;	46106
28;	6769.1;	24-DEC-2010	20:04:49;	Dark	;	58.5;	65;	Lam Vel	;	2.20;	4400;occ;	117;	0;	46106
29;	6865.0;	24-DEC-2010	20:06:25;	Dark	;	46.0;	34;	Gam2Vel	;	1.79;	23000;occ;	92;	0;	46106
30;	6995.5;	24-DEC-2010	20:08:36;	Dark	;	28.0;	70;	Zet Pup	;	2.25;	39000;occ;	56;	0;	46106
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2;	-338.0;	25-DEC-2010	00:47:18;	Dark	;	47.5;	54;	5The Cen	;	2.06;	4500;occ;	95;	0;	46108
3;	23.9;	25-DEC-2010	00:53:20;	Dark	;	42.0;	64;	Gam Cen	;	2.20;	10600;occ;	84;	0;	46109
4;	120.0;	25-DEC-2010	00:54:56;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	46109
5;	379.8;	25-DEC-2010	00:59:16;	Dark	;	46.5;	113;	Mu Vel	;	2.69;	5000;occ;	93;	0;	46109
6;	567.5;	25-DEC-2010	01:02:24;	Dark	;	41.0;	71;	Iot Car	;	2.25;	7700;occ;	82;	0;	46109
7;	671.5;	25-DEC-2010	01:04:08;	Dark	;	55.0;	41;	Eps Car	;	1.86;	4100;occ;	110;	0;	46109
8;	757.5;	25-DEC-2010	01:05:34;	Dark	;	58.5;	65;	Lam Vel	;	2.20;	4400;occ;	117;	0;	46109
9;	983.3;	25-DEC-2010	01:09:19;	Dark	;	50.0;	70;	Zet Pup	;	2.25;	39000;occ;	100;	0;	46109
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11;	1300.6;	25-DEC-2010	01:14:37;	Dark	;	50.0;	23;	21Eps CMa	;	1.50;	26000;occ;	100;	0;	46109
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13;	1557.9;	25-DEC-2010	01:18:54;	Dark	;	55.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	110;	0;	46109
14;	1746.8;	25-DEC-2010	01:22:03;	Dark	;	48.5;	7;	19Bet Ori	;	0.10;	14000;occ;	97;	0;	46109
15;	1866.5;	25-DEC-2010	01:24:03;	Dark	;	45.5;	30;	46Eps Ori	;	1.69;	30000;occ;	91;	0;	46109
16;	2030.0;	25-DEC-2010	01:26:46;	Dark	;	56.5;	14;	58Alp Ori	;	0.87;	3000;occ;	113;	0;	46109
17;	2271.5;	25-DEC-2010	01:30:48;	Bright;	;	41.0;	176;	23Zet Tau	;	3.02;	22000;occ;	82;	0;	46109
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19;	2583.8;	25-DEC-2010	01:36:00;	Bright;	;	39.0;	107;	37The Aur	;	2.65;	11000;occ;	78;	0;	46109
20;	2690.9;	25-DEC-2010	01:37:47;	Bright;	;	42.5;	6;	13Alp Aur	;	0.08;	3400;occ;	85;	0;	46109
21;	3680.3;	25-DEC-2010	01:54:16;	Bright;	;	38.0;	60;	7Bet UMi	;	2.08;	3950;occ;	76;	0;	46109
22;	3926.7;	25-DEC-2010	01:58:23;	Bright;	;	47.0;	32;	77Eps UMa	;	1.76;	11000;occ;	94;	0;	46109
23;	4104.2;	25-DEC-2010	02:01:20;	Bright;	;	43.0;	39;	85Eta UMa	;	1.85;	24000;occ;	86;	0;	46109
24;	4326.4;	25-DEC-2010	02:05:02;	Bright;	;	37.5;	180;	27Gam Boo	;	3.04;	8000;occ;	75;	0;	46109
25;	4532.3;	25-DEC-2010	02:08:28;	Bright;	;	58.0;	83;		;	2.38;	11000;occ;	116;	0;	46109
26;	4754.1;	25-DEC-2010	02:12:10;	Bright;	;	46.5;	111;	8Eta Boo	;	2.68;	6000;occ;	93;	0;	46109
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5;	24.7;	25-DEC-2010	02:33:35;	Dark	;	45.5;	64;	Gam Cen	;	2.20;	10600;occ;	91;	0;	46110
6;	120.8;	25-DEC-2010	02:35:11;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	46110
7;	380.6;	25-DEC-2010	02:39:31;	Dark	;	46.5;	113;	Mu Vel	;	2.69;	5000;occ;	93;	0;	46110
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9;	672.1;	25-DEC-2010	02:44:22;	Dark	;	45.5;	41;	Eps Car	;	1.86;	4100;occ;	91;	0;	46110
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11;	853.2;	25-DEC-2010	02:47:23;	Dark	;	44.5;	34;	Gam2Vel	;	1.79;	23000;occ;	89;	0;	46110
12;	983.9;	25-DEC-2010	02:49:34;	Dark	;	51.5;	70;	Zet Pup	;	2.25;	39000;occ;	103;	0;	46110
13;	1123.3;	25-DEC-2010	02:51:53;	Dark	;	52.5;	117;	Pi Pup	;	2.71;	3800;occ;	105;	0;	46110
14;	1301.0;	25-DEC-2010	02:54:51;	Dark	;	47.5;	23;	21Eps CMa	;	1.50;	26000;occ;	95;	0;	46110
15;	1398.7;	25-DEC-2010	02:56:29;	Dark	;	49.0;	179;	240mi2CMa	;	3.03;	24000;occ;	98;	0;	46110
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 8; -598.5; 25-DEC-2010 04:03:26; Dark ; 55.5; 15; 67Alp Vir ; 0.98; 28000;occ; 111; 0;46110
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11; 25.3; 25-DEC-2010 04:13:49; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;46111
12; 121.7; 25-DEC-2010 04:15:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46111
13; 381.5; 25-DEC-2010 04:19:46; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;46111
14; 568.8; 25-DEC-2010 04:22:53; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46111
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17; 853.7; 25-DEC-2010 04:27:38; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;46111
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16; 760.2; 25-DEC-2010 06:06:18; Dark ; 69.0; 65; Lam Vel ; 2.20; 4400;occ; 138; 0;46112
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23; 1747.2; 25-DEC-2010 06:22:45; Dark ; 52.5; 7; 19Bet Ori ; 0.10; 14000;occ; 105; 0;46112
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27; 2395.8; 25-DEC-2010 06:33:34; Bright; 41.5; 28; 12Bet Tau ; 1.65; 15200;occ; 83; 0;46112
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 12; 2688.6; 25-DEC-2010 21:40:33; Bright; 44.0; 6; 13Alp Aur ; 0.08; 3400;occ; 88; 0;46121
 13; 3679.2; 25-DEC-2010 21:57:04; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;46121
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 15; 4102.3; 25-DEC-2010 22:04:07; Bright; 63.0; 39; 85Eta UMa ; 1.85; 24000;occ; 126; 0;46121
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 17; 4534.6; 25-DEC-2010 22:11:19; Bright; 58.0; 83; ; 2.38; 11000;occ; 116; 0;46121
 18; 4758.8; 25-DEC-2010 22:15:03; Bright; 69.0; 111; 8Eta Boo ; 2.68; 6000;occ; 138; 0;46121
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43; 7727.8; 27-DEC-2010 03:28:31; Dark ; 46.0; 56; 53Kap Ori ; 2.07; 30000;occ; 92; 0;46139
44; 7880.8; 27-DEC-2010 03:31:03; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;46139
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46; 8256.4; 27-DEC-2010 03:37:19; Dark ; 56.5; 44; 24Gam Gem ; 1.93; 11000;occ; 113; 0;46139
47; 8405.1; 27-DEC-2010 03:39:48; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;46139
48; 8586.8; 27-DEC-2010 03:42:50; Bright; 40.0; 107; 37The Aur ; 2.65; 11000;occ; 80; 0;46139
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23; 1866.8; 27-DEC-2010 05:11:18; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;46140
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26; 2391.1; 27-DEC-2010 05:20:02; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;46140
27; 2572.4; 27-DEC-2010 05:23:03; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;46140
28; 2685.6; 27-DEC-2010 05:24:56; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;46140
29; 3619.0; 27-DEC-2010 05:40:30; Bright; 45.0; 36; 50Alp UMa ; 1.80; 6300;occ; 90; 0;46140

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2;	-1914.5;	27-DEC-2010	05:48:30;	Bright;	43.0;	39;	85Eta UMa	;	1.85;	24000;occ;	86;	0;	46140	
3;	-1685.8;	27-DEC-2010	05:52:19;	Bright;	60.0;	180;	27Gam Boo	;	3.04;	8000;occ;	120;	0;	46140	
4;	-1475.8;	27-DEC-2010	05:55:49;	Bright;	47.0;	83;		;	2.38;	11000;occ;	94;	0;	46140	
5;	-1246.8;	27-DEC-2010	05:59:38;	Bright;	49.5;	111;	8Eta Boo	;	2.68;	6000;occ;	99;	0;	46140	
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12;	408.7;	27-DEC-2010	06:27:14;	Dark	;	48.0;	113;	Mu Vel	;	2.69;	5000;occ;	96;	0;	46141
13;	585.9;	27-DEC-2010	06:30:11;	Dark	;	42.0;	71;	Iot Car	;	2.25;	7700;occ;	84;	0;	46141
14;	687.0;	27-DEC-2010	06:31:52;	Dark	;	50.0;	41;	Eps Car	;	1.86;	4100;occ;	100;	0;	46141
15;	871.2;	27-DEC-2010	06:34:56;	Dark	;	46.0;	34;	Gam2Vel	;	1.79;	23000;occ;	92;	0;	46141
16;	1002.4;	27-DEC-2010	06:37:07;	Dark	;	48.5;	70;	Zet Pup	;	2.25;	39000;occ;	97;	0;	46141
17;	1136.6;	27-DEC-2010	06:39:22;	Dark	;	52.5;	117;	Pi Pup	;	2.71;	3800;occ;	105;	0;	46141
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19;	1406.8;	27-DEC-2010	06:43:52;	Dark	;	46.5;	179;	240mi2CMa	;	3.03;	24000;occ;	93;	0;	46141
20;	1561.8;	27-DEC-2010	06:46:27;	Dark	;	55.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	110;	0;	46141
21;	1713.9;	27-DEC-2010	06:48:59;	Dark	;	45.0;	56;	53Kap Ori	;	2.07;	30000;occ;	90;	0;	46141
22;	1866.8;	27-DEC-2010	06:51:32;	Dark	;	48.0;	30;	46Eps Ori	;	1.69;	30000;occ;	96;	0;	46141
23;	2025.9;	27-DEC-2010	06:54:11;	Dark	;	58.0;	14;	58Alp Ori	;	0.87;	3000;occ;	116;	0;	46141
24;	2241.5;	27-DEC-2010	06:57:46;	Dark	;	51.5;	44;	24Gam Gem	;	1.93;	11000;occ;	103;	0;	46141
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26;	2572.1;	27-DEC-2010	07:03:17;	Bright;	39.5;	107;	37The Aur	;	2.65;	11000;occ;	79;	0;	46141	
27;	2685.5;	27-DEC-2010	07:05:10;	Bright;	41.5;	6;	13Alp Aur	;	0.08;	3400;occ;	83;	0;	46141	
28;	3618.4;	27-DEC-2010	07:20:43;	Bright;	48.0;	36;	50Alp UMa	;	1.80;	6300;occ;	96;	0;	46141	

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6;	1714.2;	27-DEC-2010	20:10:51;	Dark	;	45.0;	56;	53Kap Ori	;	2.07;	30000;occ;	90;	0;	46149
7;	1866.7;	27-DEC-2010	20:13:24;	Dark	;	46.0;	30;	46Eps Ori	;	1.69;	30000;occ;	92;	0;	46149
8;	2024.6;	27-DEC-2010	20:16:02;	Dark	;	58.0;	14;	58Alp Ori	;	0.87;	3000;occ;	116;	0;	46149
9;	2237.9;	27-DEC-2010	20:19:35;	Dark	;	58.5;	44;	24Gam Gem	;	1.93;	11000;occ;	117;	0;	46149
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12;	2569.1;	27-DEC-2010	20:25:06;	Bright;	40.5;	107;	37The Aur	;	2.65;	11000;occ;	81;	0;	46149	
13;	2684.1;	27-DEC-2010	20:27:01;	Bright;	41.0;	6;	13Alp Aur	;	0.08;	3400;occ;	82;	0;	46149	
14;	3613.3;	27-DEC-2010	20:42:30;	Bright;	45.0;	36;	50Alp UMa	;	1.80;	6300;occ;	90;	0;	46149	
15;	3912.9;	27-DEC-2010	20:47:30;	Bright;	67.0;	32;	77Eps UMa	;	1.76;	11000;occ;	134;	0;	46149	
16;	4098.0;	27-DEC-2010	20:50:35;	Bright;	43.0;	39;	85Eta UMa	;	1.85;	24000;occ;	86;	0;	46149	
17;	4328.6;	27-DEC-2010	20:54:26;	Bright;	60.0;	180;	27Gam Boo	;	3.04;	8000;occ;	120;	0;	46149	
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5;	54.6;	27-DEC-2010	21:23:26;	Dark	;	44.5;	64;	Gam Cen	;	2.20;	10600;occ;	89;	0;	46150
6;	156.6;	27-DEC-2010	21:25:08;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	46150
7;	416.7;	27-DEC-2010	21:29:28;	Dark	;	47.5;	113;	Mu Vel	;	2.69;	5000;occ;	95;	0;	46150
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9;	691.1;	27-DEC-2010	21:34:02;	Dark	;	49.0;	41;	Eps Car	;	1.86;	4100;occ;	98;	0;	46150
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14;	1408.7;	27-DEC-2010	21:46:00;	Dark	;	48.5;	179;	240mi2CMa	;	3.03;	24000;occ;	97;	0;	46150
15;	1562.7;	27-DEC-2010	21:48:34;	Dark	;	51.5;	1;	9Alp CMa	;	-1.44;	11000;occ;	103;	0;	46150
16;	1714.2;	27-DEC-2010	21:51:05;	Dark	;	43.0;	56;	53Kap Ori	;	2.07;	30000;occ;	86;	0;	46150
17;	1866.8;	27-DEC-2010	21:53:38;	Dark	;	46.0;	30;	46Eps Ori	;	1.69;	30000;occ;	92;	0;	46150
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 16; 1002.8; 27-DEC-2010 08:17:22; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;46142
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 19; 1406.9; 27-DEC-2010 08:24:06; Dark ; 47.0; 179; 240mi2CMa ; 3.03; 24000;occ; 94; 0;46142
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7;	2571.8;	27-DEC-2010	08:43:31;	Bright;	39.5;	107;	37The Aur	;	2.65;	11000;occ;	79;	0;	46142	
8;	2685.3;	27-DEC-2010	08:45:24;	Bright;	40.0;	6;	13Alp Aur	;	0.08;	3400;occ;	80;	0;	46142	
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11;	4099.2;	27-DEC-2010	09:08:58;	Bright;	57.0;	39;	85Eta UMa	;	1.85;	24000;occ;	114;	0;	46142	
12;	4328.4;	27-DEC-2010	09:12:47;	Bright;	41.0;	180;	27Gam Boo	;	3.04;	8000;occ;	82;	0;	46142	
13;	4538.7;	27-DEC-2010	09:16:18;	Bright;	39.0;	83;		;	2.38;	11000;occ;	78;	0;	46142	
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21;	6424.7;	27-DEC-2010	09:47:44;	Dark	;	47.0;	113;	Mu Vel	;	2.69;	5000;occ;	94;	0;	46143
22;	6600.8;	27-DEC-2010	09:50:40;	Dark	;	42.5;	71;	Iot Car	;	2.25;	7700;occ;	85;	0;	46143
23;	6702.0;	27-DEC-2010	09:52:21;	Dark	;	47.0;	41;	Eps Car	;	1.86;	4100;occ;	94;	0;	46143
24;	6886.4;	27-DEC-2010	09:55:25;	Dark	;	44.0;	34;	Gam2Vel	;	1.79;	23000;occ;	88;	0;	46143
25;	7017.4;	27-DEC-2010	09:57:36;	Dark	;	48.0;	70;	Zet Pup	;	2.25;	39000;occ;	96;	0;	46143
26;	7151.5;	27-DEC-2010	09:59:50;	Dark	;	50.0;	117;	Pi Pup	;	2.71;	3800;occ;	100;	0;	46143
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28;	7421.2;	27-DEC-2010	10:04:20;	Dark	;	47.5;	179;	240mi2CMa	;	3.03;	24000;occ;	95;	0;	46143
29;	7576.3;	27-DEC-2010	10:06:55;	Dark	;	58.5;	1;	9Alp CMa	;	-1.44;	11000;occ;	117;	0;	46143
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8;	3617.1;	27-DEC-2010	10:41:10;	Bright;	49.0;	36;	50Alp UMa	;	1.80;	6300;occ;	98;	0;	46143	
9;	3915.0;	27-DEC-2010	10:46:08;	Bright;	42.5;	32;	77Eps UMa	;	1.76;	11000;occ;	85;	0;	46143	
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19;	6165.1;	27-DEC-2010	11:23:38;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	46144
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23;	6886.8;	27-DEC-2010	11:35:40;	Dark	;	45.5;	34;	Gam2Vel	;	1.79;	23000;occ;	91;	0;	46144
24;	7017.9;	27-DEC-2010	11:37:51;	Dark	;	45.5;	70;	Zet Pup	;	2.25;	39000;occ;	91;	0;	46144
25;	7151.8;	27-DEC-2010	11:40:05;	Dark	;	51.0;	117;	Pi Pup	;	2.71;	3800;occ;	102;	0;	46144
26;	7325.8;	27-DEC-2010	11:42:59;	Dark	;	47.0;	23;	21Eps CMa	;	1.50;	26000;occ;	94;	0;	46144
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2;	1162.1;	31-DEC-2010	19:14:59;	Dark	;	47.0;	117;	Pi Pup	;	2.71;	3800;occ;	94;	0;46206
3;	1329.8;	31-DEC-2010	19:17:46;	Dark	;	44.0;	23;	21Eps CMa	;	1.50;	26000;occ;	88;	0;46206
4;	1422.0;	31-DEC-2010	19:19:18;	Dark	;	42.5;	179;	24Omi2CMa	;	3.03;	24000;occ;	85;	0;46206
5;	1569.9;	31-DEC-2010	19:21:46;	Dark	;	48.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	96;	0;46206
6;	1719.2;	31-DEC-2010	19:24:16;	Dark	;	42.0;	56;	53Kap Ori	;	2.07;	30000;occ;	84;	0;46206
7;	1869.3;	31-DEC-2010	19:26:46;	Dark	;	44.5;	30;	46Eps Ori	;	1.69;	30000;occ;	89;	0;46206
8;	2020.2;	31-DEC-2010	19:29:17;	Dark	;	55.0;	14;	58Alp Ori	;	0.87;	3000;occ;	110;	0;46206
9;	2215.8;	31-DEC-2010	19:32:32;	Dark	;	57.0;	44;	24Gam Gem	;	1.93;	11000;occ;	114;	0;46206
10;	2313.6;	31-DEC-2010	19:34:10;	Bright;	;	47.5;	151;	13Mu Gem	;	2.89;	3000;occ;	95;	0;46206
11;	2552.7;	31-DEC-2010	19:38:09;	Bright;	;	39.0;	107;	37The Aur	;	2.65;	11000;occ;	78;	0;46206
12;	2677.7;	31-DEC-2010	19:40:14;	Bright;	;	41.0;	6;	13Alp Aur	;	0.08;	3400;occ;	82;	0;46206
13;	3672.2;	31-DEC-2010	19:56:49;	Bright;	;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;46206
14;	3891.1;	31-DEC-2010	20:00:28;	Bright;	;	49.5;	32;	77Eps UMa	;	1.76;	11000;occ;	99;	0;46206
15;	4087.7;	31-DEC-2010	20:03:44;	Bright;	;	66.0;	39;	85Eta UMa	;	1.85;	24000;occ;	132;	0;46206
16;	4330.9;	31-DEC-2010	20:07:47;	Bright;	;	62.0;	180;	27Gam Boo	;	3.04;	8000;occ;	124;	0;46206
17;	4551.4;	31-DEC-2010	20:11:28;	Bright;	;	62.0;	83;		;	2.38;	11000;occ;	124;	0;46206
18;	4746.2;	31-DEC-2010	20:14:43;	Bright;	;	53.5;	3;	16Alp Boo	;	-0.05;	4250;occ;	107;	0;46206
19;	5169.6;	31-DEC-2010	20:21:46;	Bright;	;	56.0;	104;	27Bet Lib	;	2.61;	13100;occ;	112;	0;46206
20;	5327.7;	31-DEC-2010	20:24:24;	Dark	;	45.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	91;	0;46206
21;	5739.5;	31-DEC-2010	20:31:16;	Dark	;	48.5;	54;	5The Cen	;	2.06;	4500;occ;	97;	0;46206
22;	5904.9;	31-DEC-2010	20:34:01;	Dark	;	42.0;	95;	Zet Cen	;	2.55;	26000;occ;	84;	0;46206
23;	6113.8;	31-DEC-2010	20:37:30;	Dark	;	44.5;	64;	Gam Cen	;	2.20;	10600;occ;	89;	0;46207
24;	6222.7;	31-DEC-2010	20:39:19;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;46207
25;	6482.0;	31-DEC-2010	20:43:38;	Dark	;	46.5;	113;	Mu Vel	;	2.69;	5000;occ;	93;	0;46207
26;	6636.4;	31-DEC-2010	20:46:13;	Dark	;	45.0;	71;	Iot Car	;	2.25;	7700;occ;	90;	0;46207
27;	6750.2;	31-DEC-2010	20:48:07;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;occ;	85;	0;46207
28;	6921.0;	31-DEC-2010	20:50:57;	Dark	;	48.0;	34;	Gam2Vel	;	1.79;	23000;occ;	96;	0;46207
29;	7051.8;	31-DEC-2010	20:53:08;	Dark	;	23.5;	70;	Zet Pup	;	2.25;	39000;occ;	47;	0;46207