

# GOMOS Daily Report 10-FEB-2011

## 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	13FEB2011 04:54:56
Data source version	GOMOS/5.01
Start time of products	10FEB2011 00:02:03
Stop time of products	10FEB2011 23:59:43
Store outputs in DB	Yes
Nb of level 1b prods	92
Nb of prods with errors	0

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

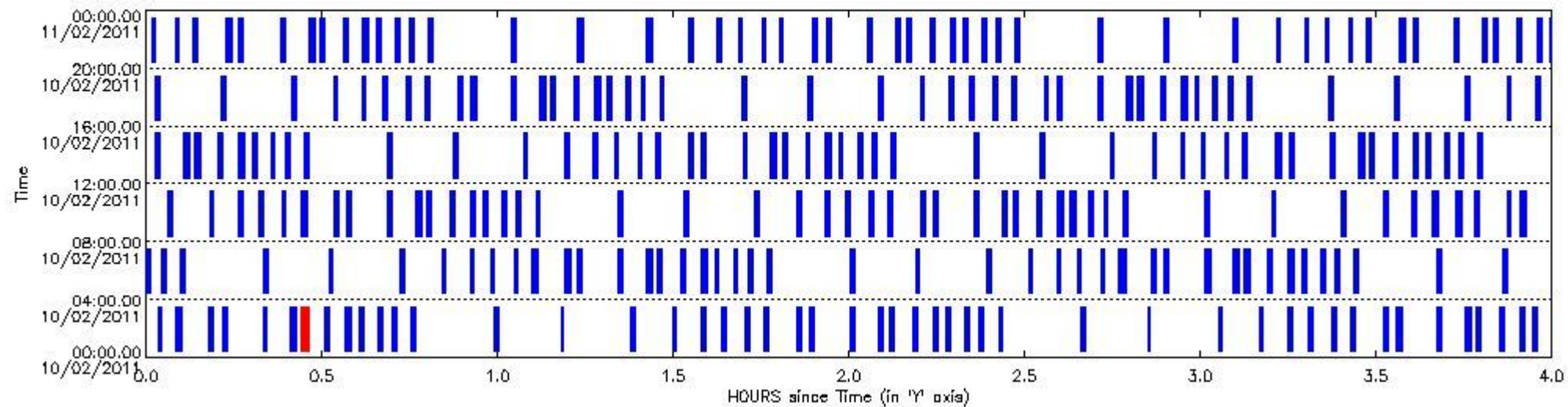
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
10-FEB-2011 00:26:27	6PiSco	158	46783

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

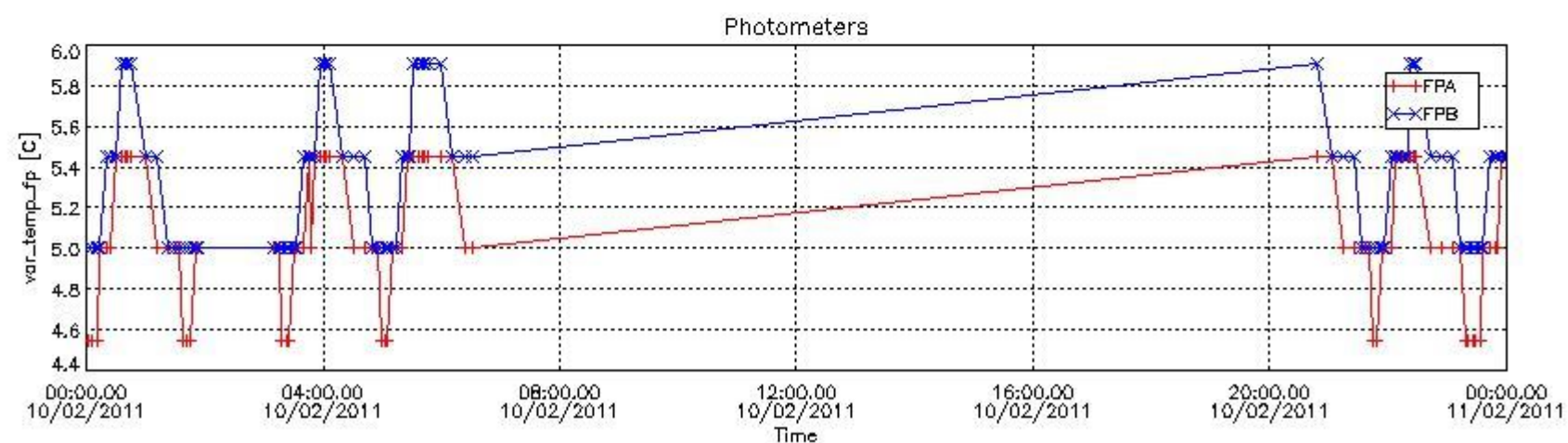
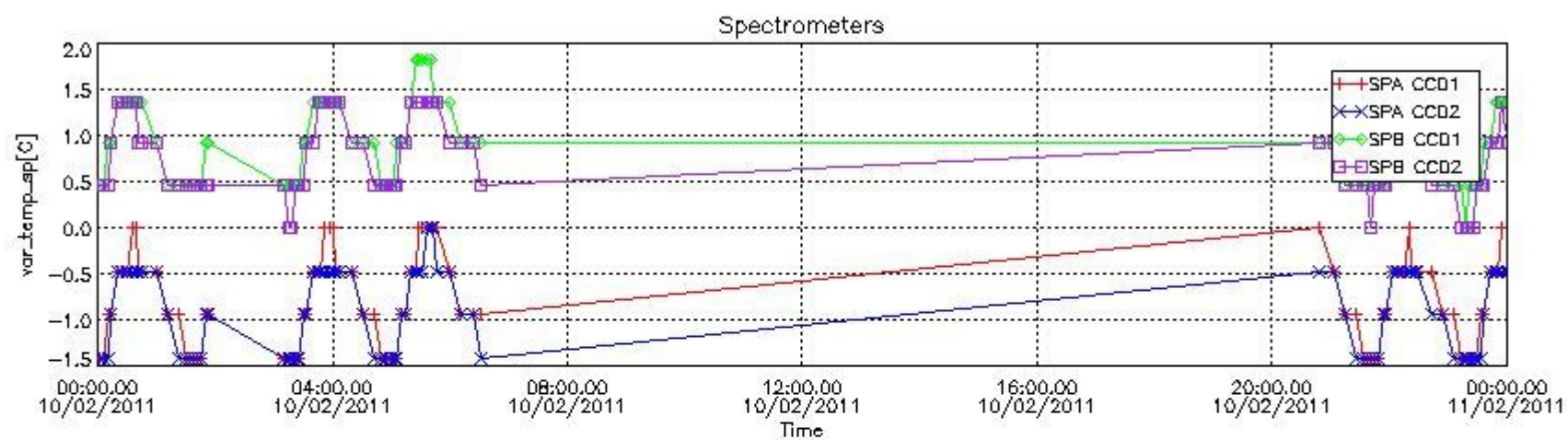
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20110210_000203_000000393099_00217_46783_0379.N1	10-FEB-2011 00:02:03	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	46783	No
2	GOM_TRA_1PNPDE20110210_000506_000000503099_00217_46783_0380.N1	10-FEB-2011 00:05:06	Bright	50.000	133	40Zet Her	2.8070	6000.0	100	46783	No
3	GOM_TRA_1PNPDE20110210_001042_000000423099_00217_46783_0381.N1	10-FEB-2011 00:10:42	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	46783	No
4	GOM_TRA_1PNPDE20110210_001254_000000593099_00217_46783_0382.N1	10-FEB-2011 00:12:54	Bright	58.500	126	60Bet Oph	2.7700	4250.0	117	46783	No
5	GOM_TRA_1PNPDE20110210_001951_000000463099_00217_46783_0370.N1	10-FEB-2011 00:19:51	Dark	45.500	86	35Eta Oph	2.4300	10200.	91	46783	No
6	GOM_TRA_1PNPDE20110210_002437_000000583099_00217_46783_0371.N1	10-FEB-2011 00:24:37	Dark	58.000	16	21Alp Sco	1.0200	3000.0	116	46783	No
7	GOM_TRA_1PNPDE20110210_003033_000000463099_00217_46783_0372.N1	10-FEB-2011 00:30:33	Dark	45.500	131	Gam Lup	2.8000	26000.	91	46783	No
8	GOM_TRA_1PNPDE20110210_003618_000000453099_00218_46784_0373.N1	10-FEB-2011 00:36:18	Dark	44.500	10	Bet Cen	0.61000	28000.	89	46784	No
9	GOM_TRA_1PNPDE20110210_003930_000000543099_00218_46784_0374.N1	10-FEB-2011 00:39:30	Dark	53.500	12	Alp1Cru	0.77500	30000.	107	46784	No
10	GOM_TRA_1PNPDE20110210_004200_000000433099_00218_46784_0375.N1	10-FEB-2011 00:42:00	Dark	43.000	99	Del Cen	2.5750	26000.	86	46784	No

11	GOM_TRA_1PNPDE20110210_004516_00000423099_00218_46784_0376.N1	10-FEB-2011 00:45:16	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	46784	No
12	GOM_TRA_1PNPDE20110210_005923_00000503099_00218_46784_0377.N1	10-FEB-2011 00:59:23	Straylight	49.500	48	30Alp Hya	1.9770	4100.0	99	46784	No
13	GOM_TRA_1PNPDE20110210_011045_00000273099_00218_46784_0378.N1	10-FEB-2011 01:10:45	Twilight_and_stray	27.000	166	17Eps Leo	2.9800	6000.0	54	46784	No
14	GOM_TRA_1PNPDE20110210_012247_00000473099_00218_46784_0379.N1	10-FEB-2011 01:22:47	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	46784	No
15	GOM_TRA_1PNPDE20110210_012956_00000383099_00218_46784_0380.N1	10-FEB-2011 01:29:56	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	46784	No
16	GOM_TRA_1PNPDE20110210_013444_00000423099_00218_46784_0381.N1	10-FEB-2011 01:34:44	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	46784	No
17	GOM_TRA_1PNPDE20110210_013817_00000403099_00218_46784_0382.N1	10-FEB-2011 01:38:17	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	46784	No
18	GOM_TRA_1PNPDE20110210_014217_00000393099_00218_46784_0383.N1	10-FEB-2011 01:42:17	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	46784	No
19	GOM_TRA_1PNPDE20110210_014520_00000503099_00218_46784_0384.N1	10-FEB-2011 01:45:20	Bright	49.500	133	40Zet Her	2.8070	6000.0	99	46784	No
20	GOM_TRA_1PNPDE20110210_015056_00000613099_00218_46784_0385.N1	10-FEB-2011 01:50:56	Bright	61.000	59	55Alp Oph	2.0800	8900.0	122	46784	No
21	GOM_TRA_1PNPDE20110210_015308_00000593099_00218_46784_0386.N1	10-FEB-2011 01:53:08	Bright	58.500	126	60Bet Oph	2.7700	4250.0	117	46784	No
22	GOM_TRA_1PNPDE20110210_031009_00000363099_00219_46785_0662.N1	10-FEB-2011 03:10:09	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	46785	No
23	GOM_TRA_1PNPDE20110210_031458_00000433099_00219_46785_0663.N1	10-FEB-2011 03:14:58	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	46785	No
24	GOM_TRA_1PNPDE20110210_031831_00000413099_00219_46785_0664.N1	10-FEB-2011 03:18:31	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	46785	No
25	GOM_TRA_1PNPDE20110210_032231_00000363099_00219_46785_0665.N1	10-FEB-2011 03:22:31	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	46785	No
26	GOM_TRA_1PNPDE20110210_032534_00000503099_00219_46785_0666.N1	10-FEB-2011 03:25:34	Bright	49.500	133	40Zet Her	2.8070	6000.0	99	46785	No
27	GOM_TRA_1PNPDE20110210_033110_00000613099_00219_46785_0667.N1	10-FEB-2011 03:31:10	Bright	61.000	59	55Alp Oph	2.0800	8900.0	122	46785	No
28	GOM_TRA_1PNPDE20110210_033323_00000593099_00219_46785_0668.N1	10-FEB-2011 03:33:23	Bright	59.000	126	60Bet Oph	2.7700	4250.0	118	46785	No
29	GOM_TRA_1PNPDE20110210_034021_00000483099_00219_46785_0669.N1	10-FEB-2011 03:40:21	Dark	48.000	86	35Eta Oph	2.4300	10200.	96	46785	No
30	GOM_TRA_1PNPDE20110210_034507_00000633099_00219_46785_0670.N1	10-FEB-2011 03:45:07	Dark	63.000	16	21Alp Sco	1.0200	3000.0	126	46785	No
31	GOM_TRA_1PNPDE20110210_034700_00000533099_00219_46785_0671.N1	10-FEB-2011 03:47:00	Dark	53.000	158	6Pi Sco	2.9060	28000.	106	46785	No
32	GOM_TRA_1PNPDE20110210_035103_00000463099_00220_46786_0672.N1	10-FEB-2011 03:51:03	Dark	46.000	131	Gam Lup	2.8000	26000.	92	46786	No
33	GOM_TRA_1PNPDE20110210_035647_00000453099_00220_46786_0673.N1	10-FEB-2011 03:56:47	Dark	44.500	10	Bet Cen	0.61000	28000.	89	46786	No
34	GOM_TRA_1PNPDE20110210_040000_00000493099_00220_46786_0674.N1	10-FEB-2011 04:00:00	Dark	48.500	12	Alp1Cru	0.77500	30000.	97	46786	No
35	GOM_TRA_1PNPDE20110210_040230_00000463099_00220_46786_0675.N1	10-FEB-2011 04:02:30	Dark	45.500	99	Del Cen	2.5750	26000.	91	46786	No
36	GOM_TRA_1PNPDE20110210_040545_00000443099_00220_46786_0676.N1	10-FEB-2011 04:05:45	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	46786	No
37	GOM_TRA_1PNPDE20110210_041952_00000483099_00220_46786_0677.N1	10-FEB-2011 04:19:52	Straylight	48.000	48	30Alp Hya	1.9770	4100.0	96	46786	No
38	GOM_TRA_1PNPDE20110210_043112_00000343099_00220_46786_0678.N1	10-FEB-2011 04:31:12	Twilight_and_stray	34.000	166	17Eps Leo	2.9800	6000.0	68	46786	No
39	GOM_TRA_1PNPDE20110210_044313_00000473099_00220_46786_0679.N1	10-FEB-2011 04:43:13	Bright	47.000	82	48Bet UMa	2.3650	10600.	94	46786	No
40	GOM_TRA_1PNPDE20110210_045023_00000373099_00220_46786_0680.N1	10-FEB-2011 04:50:23	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	46786	No
41	GOM_TRA_1PNPDE20110210_045512_00000423099_00220_46786_0424.N1	10-FEB-2011 04:55:12	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	46786	No
42	GOM_TRA_1PNPDE20110210_045845_00000403099_00220_46786_0425.N1	10-FEB-2011 04:58:45	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	46786	No
43	GOM_TRA_1PNPDE20110210_050245_00000363099_00220_46786_0426.N1	10-FEB-2011 05:02:45	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	46786	No
44	GOM_TRA_1PNPDE20110210_050549_00000713099_00220_46786_0427.N1	10-FEB-2011 05:05:49	Bright	71.000	133	40Zet Her	2.8070	6000.0	142	46786	No
45	GOM_TRA_1PNPDE20110210_051125_00000613099_00220_46786_0428.N1	10-FEB-2011 05:11:25	Bright	61.000	59	55Alp Oph	2.0800	8900.0	122	46786	No
46	GOM_TRA_1PNPDE20110210_051337_00000423099_00220_46786_0429.N1	10-FEB-2011 05:13:37	Bright	41.500	126	60Bet Oph	2.7700	4250.0	83	46786	No
47	GOM_TRA_1PNPDE20110210_052036_00000503099_00220_46786_0430.N1	10-FEB-2011 05:20:36	Dark	50.000	86	35Eta Oph	2.4300	10200.	100	46786	No
48	GOM_TRA_1PNPDE20110210_052522_00000663099_00220_46786_0431.N1	10-FEB-2011 05:25:22	Dark	66.000	16	21Alp Sco	1.0200	3000.0	132	46786	No
49	GOM_TRA_1PNPDE20110210_052715_00000533099_00220_46786_0432.N1	10-FEB-2011 05:27:15	Dark	52.500	158	6Pi Sco	2.9060	28000.	105	46786	No
50	GOM_TRA_1PNPDE20110210_053118_00000443099_00221_46787_0433.N1	10-FEB-2011 05:31:18	Dark	43.500	131	Gam Lup	2.8000	26000.	87	46787	No
51	GOM_TRA_1PNPDE20110210_053702_00000423099_00221_46787_0434.N1	10-FEB-2011 05:37:02	Dark	41.500	10	Bet Cen	0.61000	28000.	83	46787	No
52	GOM_TRA_1PNPDE20110210_054014_00000453099_00221_46787_0435.N1	10-FEB-2011 05:40:14	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	46787	No
53	GOM_TRA_1PNPDE20110210_054244_00000503099_00221_46787_0436.N1	10-FEB-2011 05:42:44	Dark	50.000	99	Del Cen	2.5750	26000.	100	46787	No
54	GOM_TRA_1PNPDE20110210_054600_00000433099_00221_46787_0437.N1	10-FEB-2011 05:46:00	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	46787	No
55	GOM_TRA_1PNPDE20110210_060005_00000513099_00221_46787_0438.N1	10-FEB-2011 06:00:05	Straylight	50.500	48	30Alp Hya	1.9770	4100.0	101	46787	No
56	GOM_TRA_1PNPDE20110210_061126_00000343099_00221_46787_0439.N1	10-FEB-2011 06:11:26	Twilight_and_stray	34.000	166	17Eps Leo	2.9800	6000.0	68	46787	No
57	GOM_TRA_1PNPDE20110210_062327_00000473099_00221_46787_0440.N1	10-FEB-2011 06:23:27	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	46787	No
58	GOM_TRA_1PNPDE20110210_063037_00000423099_00221_46787_0441.N1	10-FEB-2011 06:30:37	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	46787	No
59	GOM_TRA_1PNPDE20110210_204810_00000453099_00230_46796_1043.N1	10-FEB-2011 20:48:10	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	46796	No
60	GOM_TRA_1PNPDE20110210_210212_00000503099_00230_46796_1044.N1	10-FEB-2011 21:02:12	Straylight	50.000	48	30Alp Hya	1.9770	4100.0	100	46796	No
61	GOM_TRA_1PNPDE20110210_211327_00000683099_00230_46796_1045.N1	10-FEB-2011 21:13:27	Bright	68.000	166	17Eps Leo	2.9800	6000.0	136	46796	No
62	GOM_TRA_1PNPDE20110210_212526_00000553099_00230_46796_1046.N1	10-FEB-2011 21:25:26	Bright	54.500	82	48Bet UMa	2.3650	10600.	109	46796	No
63	GOM_TRA_1PNPDE20110210_213240_00000383099_00230_46796_1047.N1	10-FEB-2011 21:32:40	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	46796	No
64	GOM_TRA_1PNPDE20110210_213730_00000433099_00230_46796_1048.N1	10-FEB-2011 21:37:30	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	46796	No
65	GOM_TRA_1PNPDE20110210_214105_00000383099_00230_46796_1049.N1	10-FEB-2011 21:41:05	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	46796	No
66	GOM_TRA_1PNPDE20110210_214507_00000363099_00230_46796_1050.N1	10-FEB-2011 21:45:07	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	46796	No
67	GOM_TRA_1PNPDE20110210_214810_00000373099_00230_46796_1051.N1	10-FEB-2011 21:48:10	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	46796	No
68	GOM_TRA_1PNPDE20110210_215349_00000423099_00230_46796_1052.N1	10-FEB-2011 21:53:49	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	46796	No
69	GOM_TRA_1PNPDE20110210_215602_00000593099_00230_46796_1053.N1	10-FEB-2011 21:56:02	Bright	58.500	126	60Bet Oph	2.7700	4250.0	117	46796	No



70	GOM_TRA_1PNPDE20110210_220303_000000483099_00230_46796_1050.N1	10-FEB-2011 22:03:03	Dark	47.500	86	35Eta Oph	2.4300	10200.	95	46796	No
71	GOM_TRA_1PNPDE20110210_220752_000000533099_00230_46796_1051.N1	10-FEB-2011 22:07:52	Dark	53.000	16	21Alp Sco	1.0200	3000.0	106	46796	No
72	GOM_TRA_1PNPDE20110210_220947_000000523099_00230_46796_1052.N1	10-FEB-2011 22:09:47	Dark	51.500	158	6Pi Sco	2.9060	28000.	103	46796	No
73	GOM_TRA_1PNPDE20110210_221348_000000473099_00231_46797_1053.N1	10-FEB-2011 22:13:48	Dark	46.500	131	Gam Lup	2.8000	26000.	93	46797	No
74	GOM_TRA_1PNPDE20110210_221928_000000463099_00231_46797_1054.N1	10-FEB-2011 22:19:28	Dark	46.000	10	Bet Cen	0.61000	28000.	92	46797	No
75	GOM_TRA_1PNPDE20110210_222239_000000433099_00231_46797_1055.N1	10-FEB-2011 22:22:39	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	46797	No
76	GOM_TRA_1PNPDE20110210_222512_000000443099_00231_46797_1056.N1	10-FEB-2011 22:25:12	Dark	43.500	99	Del Cen	2.5750	26000.	87	46797	No
77	GOM_TRA_1PNPDE20110210_222825_000000473099_00231_46797_1057.N1	10-FEB-2011 22:28:25	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	46797	No
78	GOM_TRA_1PNPDE20110210_224225_000000533099_00231_46797_1058.N1	10-FEB-2011 22:42:25	Straylight	53.000	48	30Alp Hya	1.9770	4100.0	106	46797	No
79	GOM_TRA_1PNPDE20110210_225340_000000473099_00231_46797_1059.N1	10-FEB-2011 22:53:40	Bright	46.500	166	17Eps Leo	2.9800	6000.0	93	46797	No
80	GOM_TRA_1PNPDE20110210_230539_000000473099_00231_46797_1060.N1	10-FEB-2011 23:05:39	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	46797	No
81	GOM_TRA_1PNPDE20110210_231254_000000423099_00231_46797_1061.N1	10-FEB-2011 23:12:54	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	46797	No
82	GOM_TRA_1PNPDE20110210_231743_000000433099_00231_46797_1062.N1	10-FEB-2011 23:17:43	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	46797	No
83	GOM_TRA_1PNPDE20110210_232118_000000403099_00231_46797_1063.N1	10-FEB-2011 23:21:18	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	46797	No
84	GOM_TRA_1PNPDE20110210_232521_000000393099_00231_46797_1064.N1	10-FEB-2011 23:25:21	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	46797	No
85	GOM_TRA_1PNPDE20110210_232824_000000373099_00231_46797_1065.N1	10-FEB-2011 23:28:24	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	46797	No
86	GOM_TRA_1PNPDE20110210_233403_000000613099_00231_46797_1066.N1	10-FEB-2011 23:34:03	Bright	61.000	59	55Alp Oph	2.0800	8900.0	122	46797	No
87	GOM_TRA_1PNPDE20110210_233616_000000593099_00231_46797_1067.N1	10-FEB-2011 23:36:16	Bright	58.500	126	60Bet Oph	2.7700	4250.0	117	46797	No
88	GOM_TRA_1PNPDE20110210_234318_000000483099_00231_46797_0793.N1	10-FEB-2011 23:43:18	Dark	48.000	86	35Eta Oph	2.4300	10200.	96	46797	No
89	GOM_TRA_1PNPDE20110210_234807_000000573099_00231_46797_0794.N1	10-FEB-2011 23:48:07	Dark	57.000	16	21Alp Sco	1.0200	3000.0	114	46797	No
90	GOM_TRA_1PNPDE20110210_235002_000000523099_00231_46797_0795.N1	10-FEB-2011 23:50:02	Dark	52.000	158	6Pi Sco	2.9060	28000.	104	46797	No
91	GOM_TRA_1PNPDE20110210_235402_000000473099_00232_46798_0796.N1	10-FEB-2011 23:54:02	Dark	47.000	131	Gam Lup	2.8000	26000.	94	46798	No
92	GOM_TRA_1PNPDE20110210_235943_000000433099_00232_46798_0797.N1	10-FEB-2011 23:59:43	Dark	42.500	10	Bet Cen	0.61000	28000.	85	46798	No

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



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

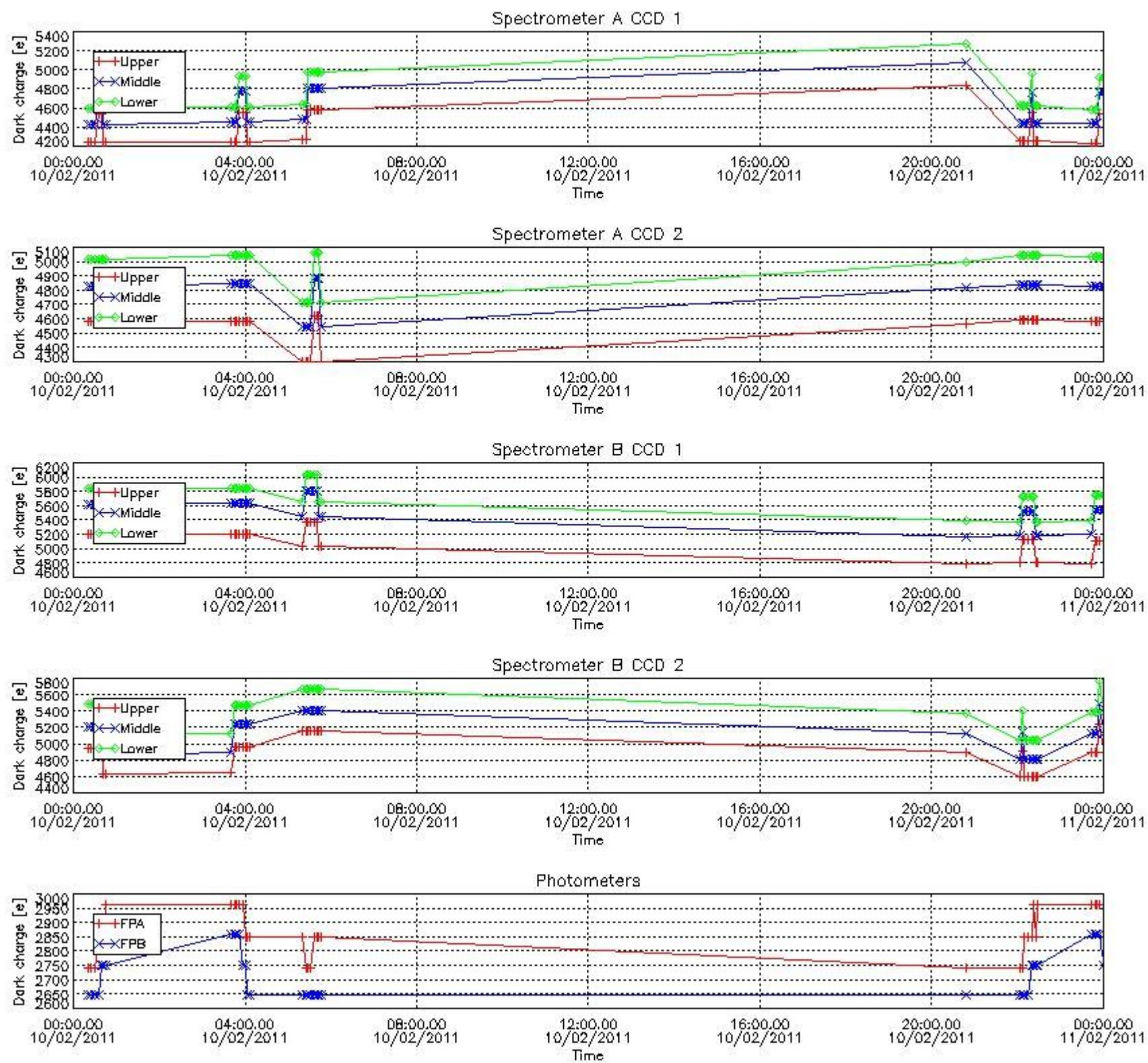
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20110210_204810_000000453099_00230_46796_1043.N1	DC map used
GOM_TRA_1PNPDE20110210_210212_000000503099_00230_46796_1044.N1	DC map used
GOM_TRA_1PNPDE20110210_211327_000000683099_00230_46796_1045.N1	DC map used
GOM_TRA_1PNPDE20110210_212526_000000553099_00230_46796_1046.N1	DC map used
GOM_TRA_1PNPDE20110210_213240_000000383099_00230_46796_1047.N1	DC map used
GOM_TRA_1PNPDE20110210_213730_000000433099_00230_46796_1048.N1	DC map used
GOM_TRA_1PNPDE20110210_214105_000000383099_00230_46796_1049.N1	DC map used
GOM_TRA_1PNPDE20110210_214507_000000363099_00230_46796_1050.N1	DC map used
GOM_TRA_1PNPDE20110210_214810_000000373099_00230_46796_1051.N1	DC map used
GOM_TRA_1PNPDE20110210_215349_000000423099_00230_46796_1052.N1	DC map used
GOM_TRA_1PNPDE20110210_215602_000000593099_00230_46796_1053.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

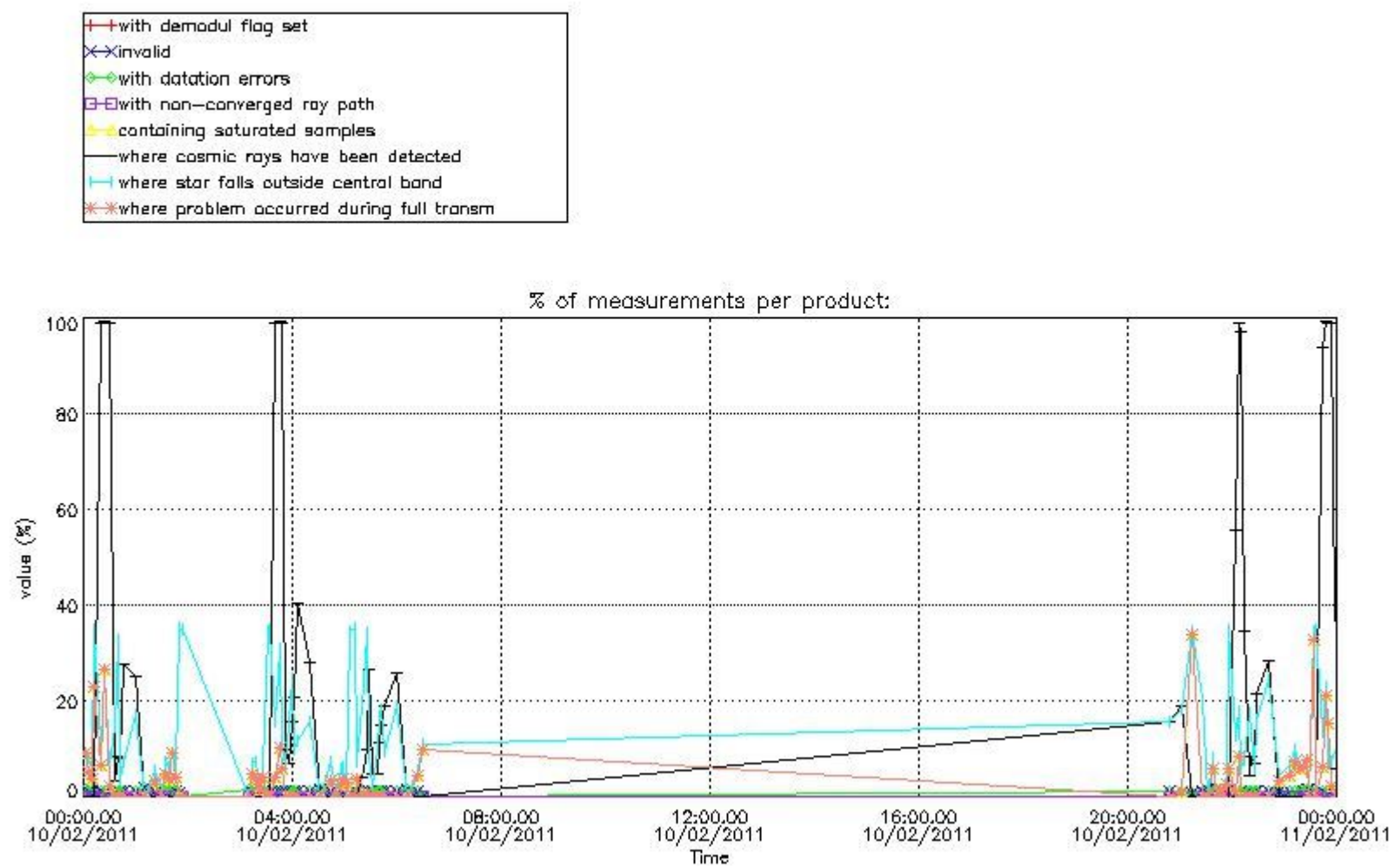
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

### 5.1 Percentage of products during reporting period with:

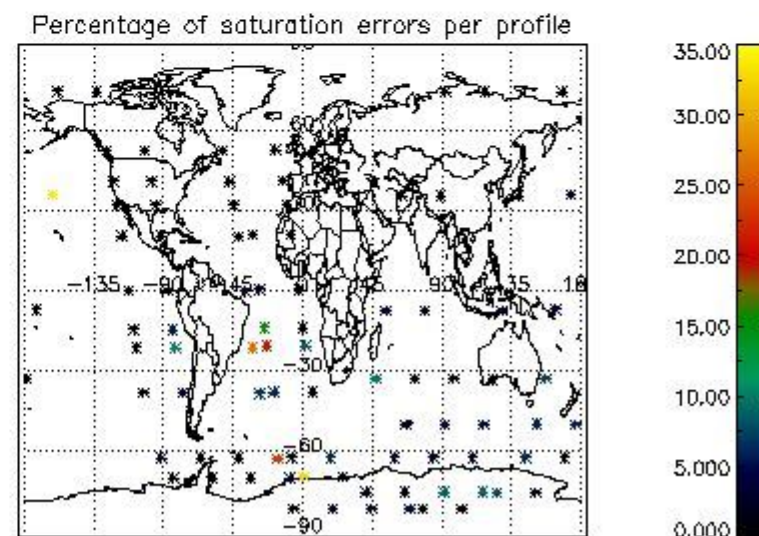
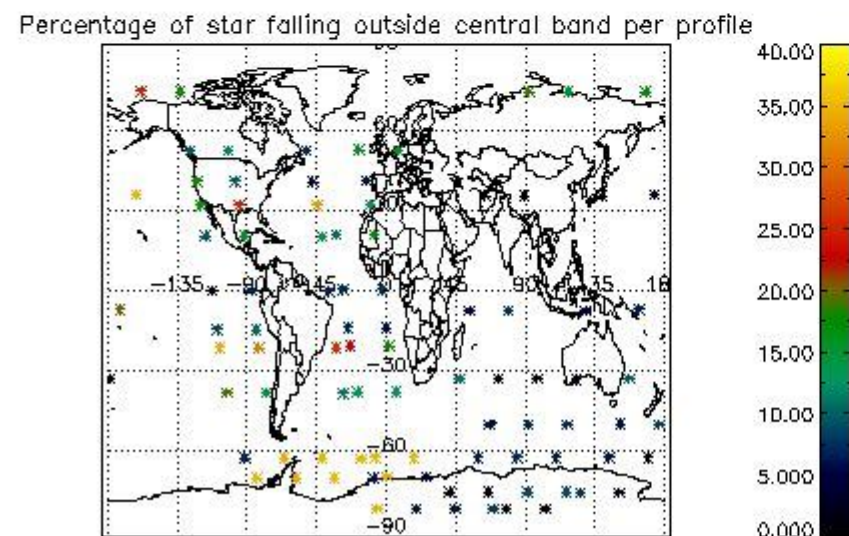
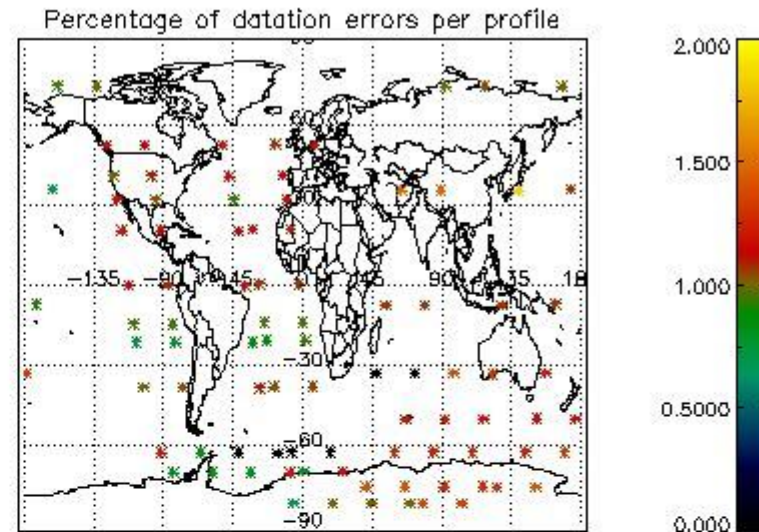
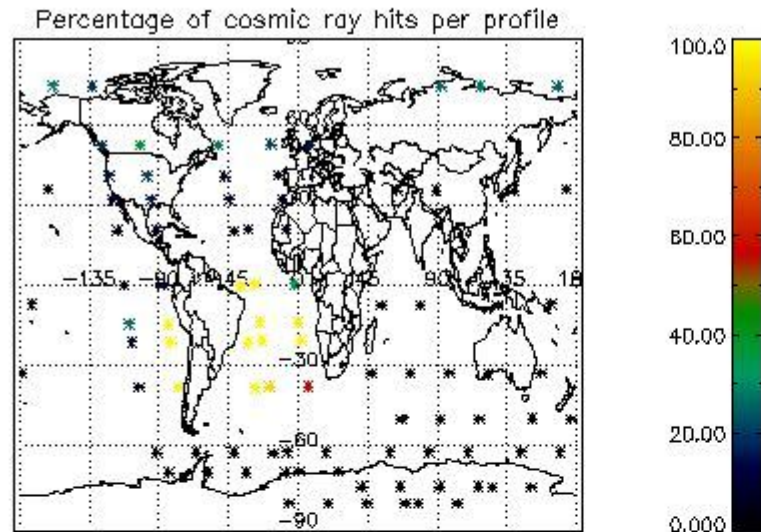


At least one measurement with demodulation flag set:	39.1304 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 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)

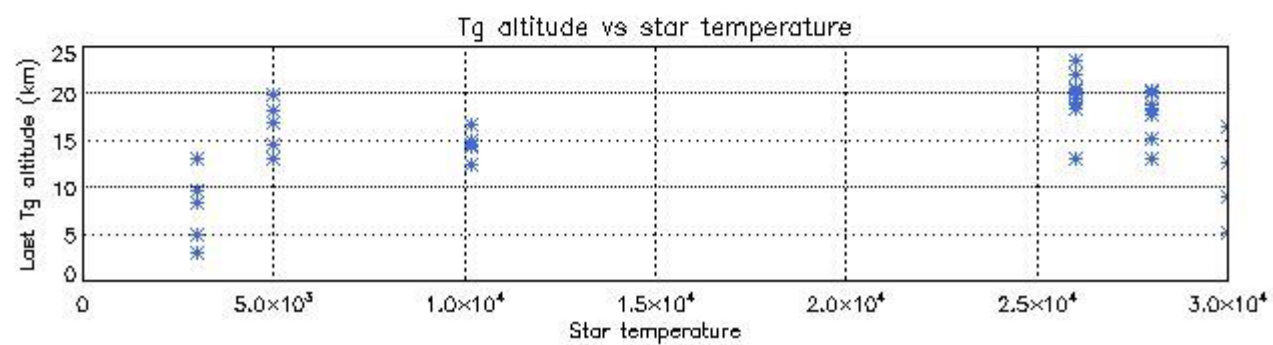
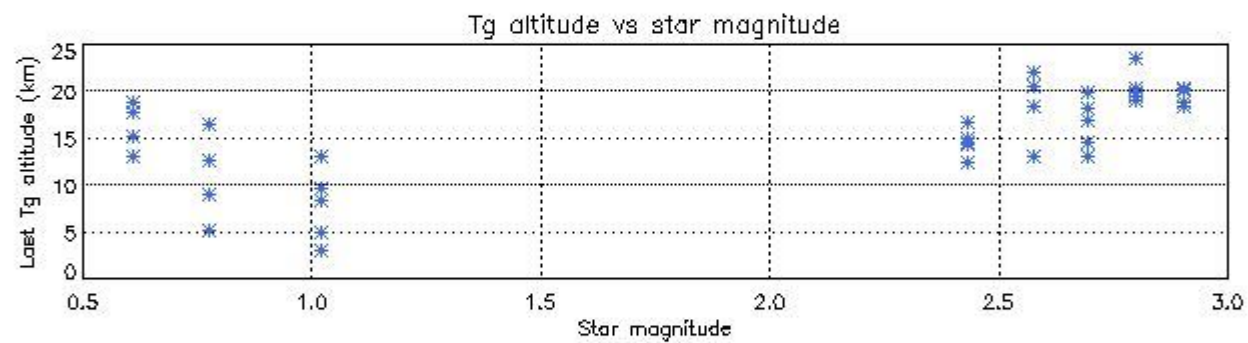
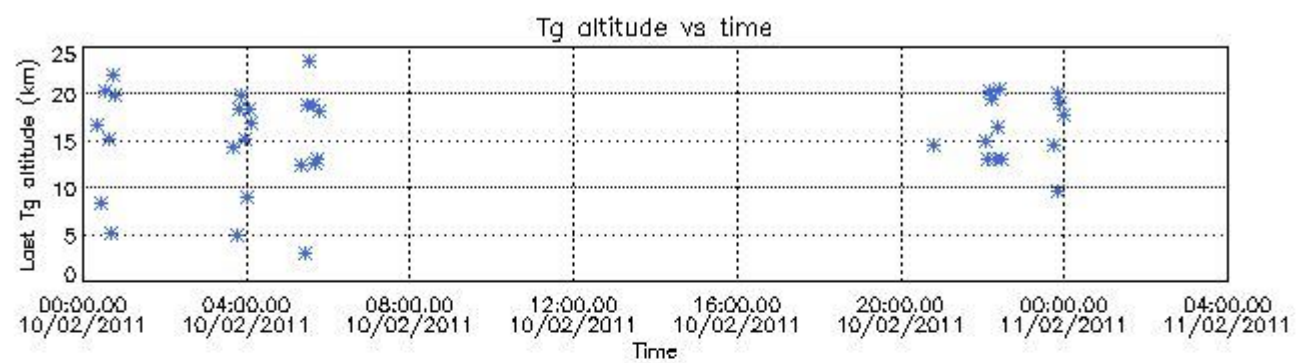
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.447	18.305	NaN
St. deviation:	4.9065	9.7553	NaN
Maximum:	23.491	46.410	NaN
Minimum:	3.0824	3.9016	NaN
Number of data:	37.000	47.000	NaN

### 6.2 Plot for DARK limb products

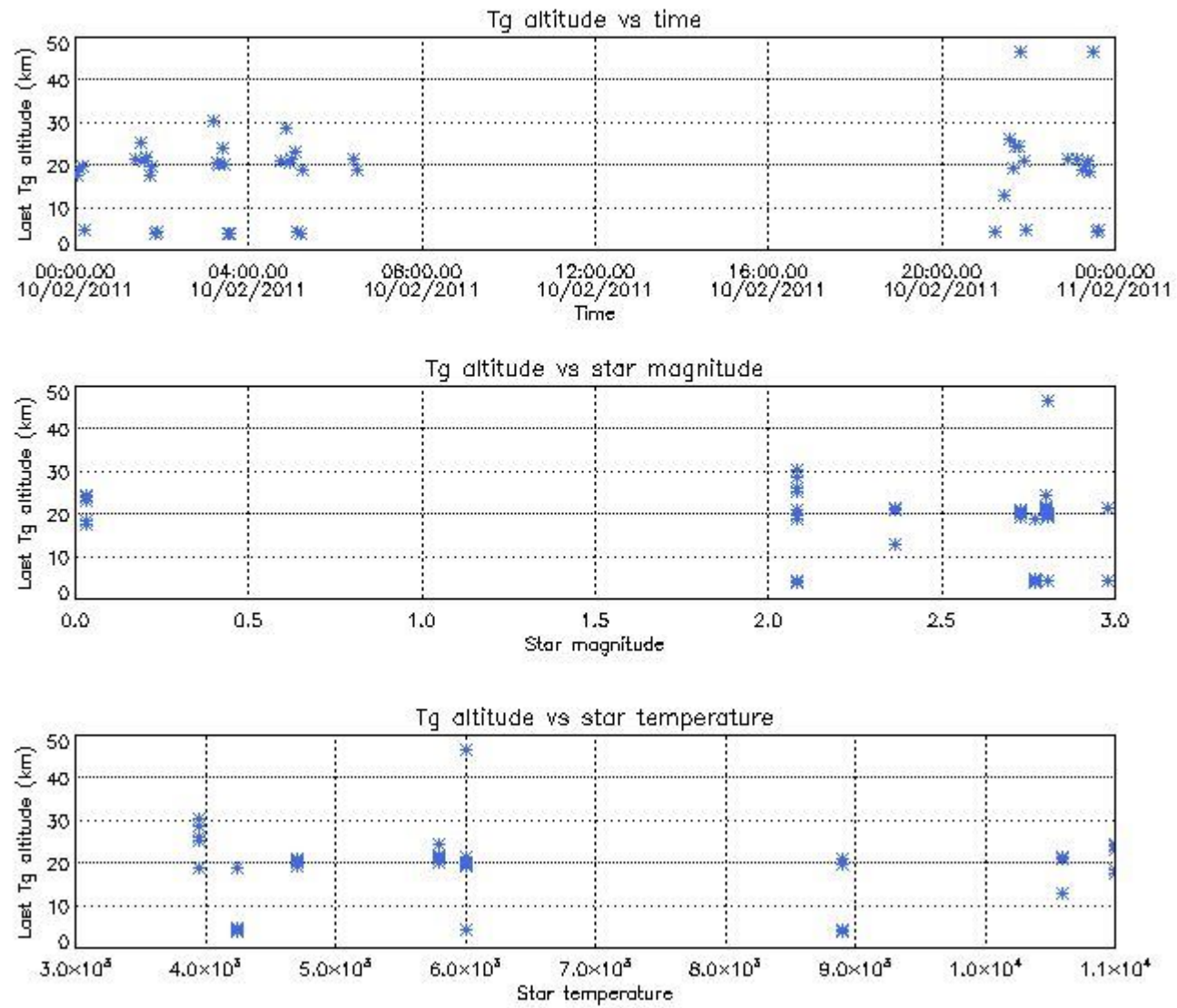


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

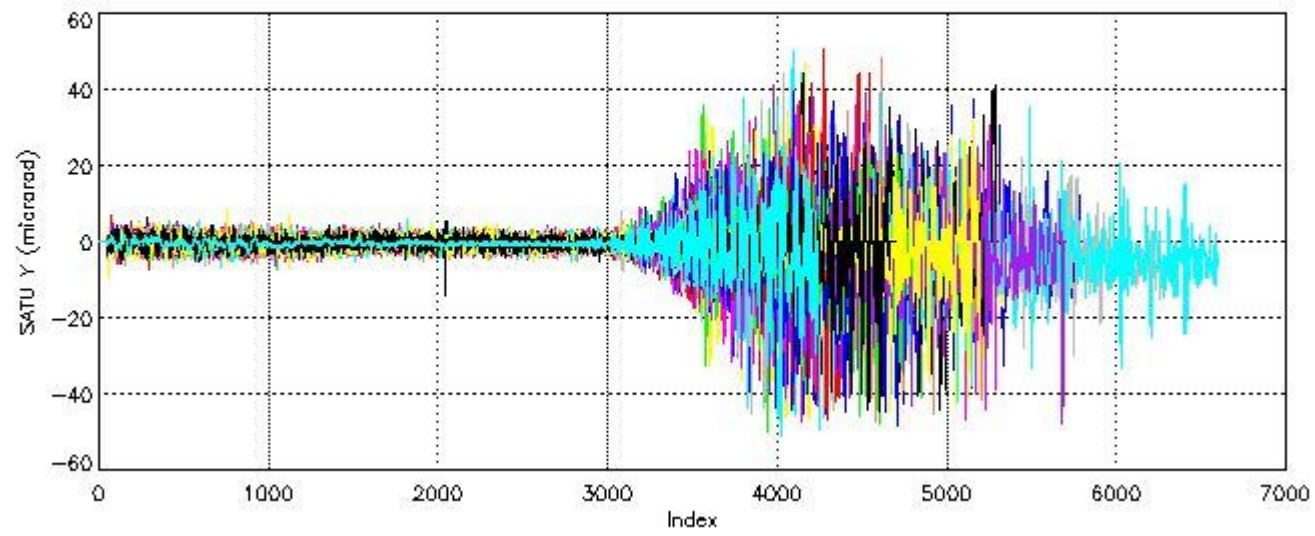
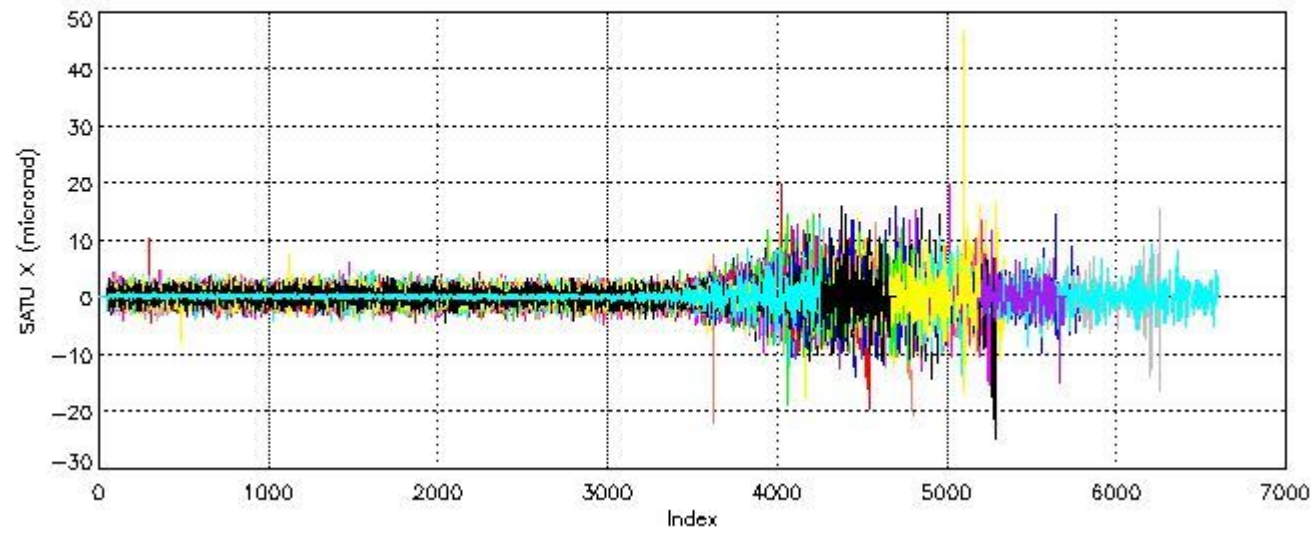


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.21501	-0.40499	0.12534	-0.38820
St. deviation:	0.63371	1.2204	0.63411	0.97014
Maximum:	10.500	8.2000	4.0000	5.4000
Minimum:	-7.4000	-9.6000	-3.1000	-6.0000



Number of data:	40150.	40150.	46850.	46850.
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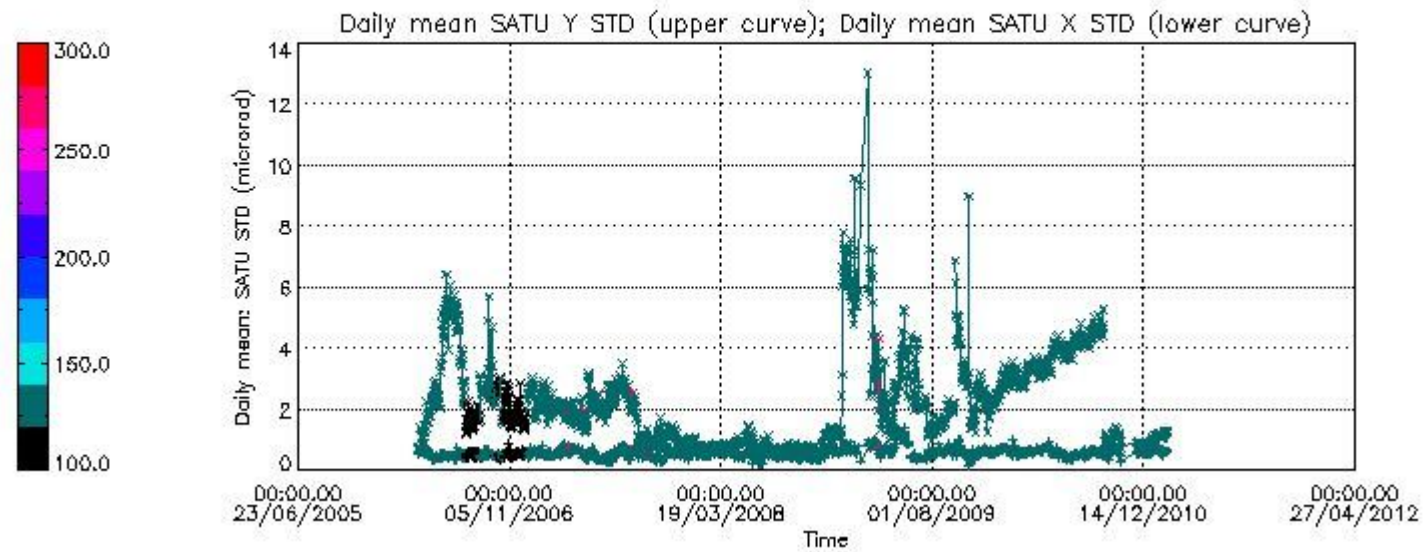
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

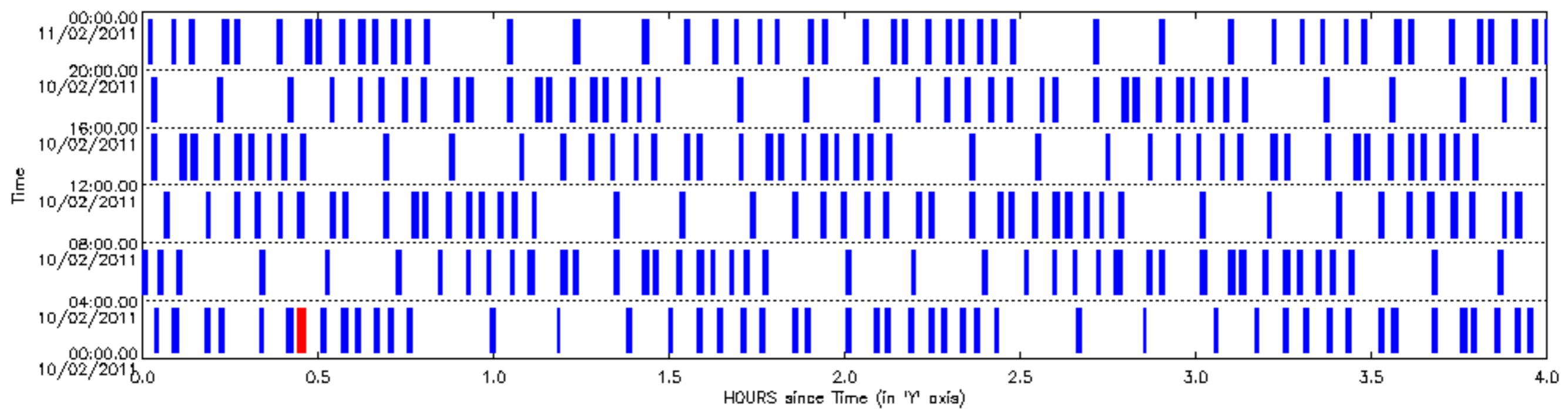
Lower curve: STD of SATU X axis

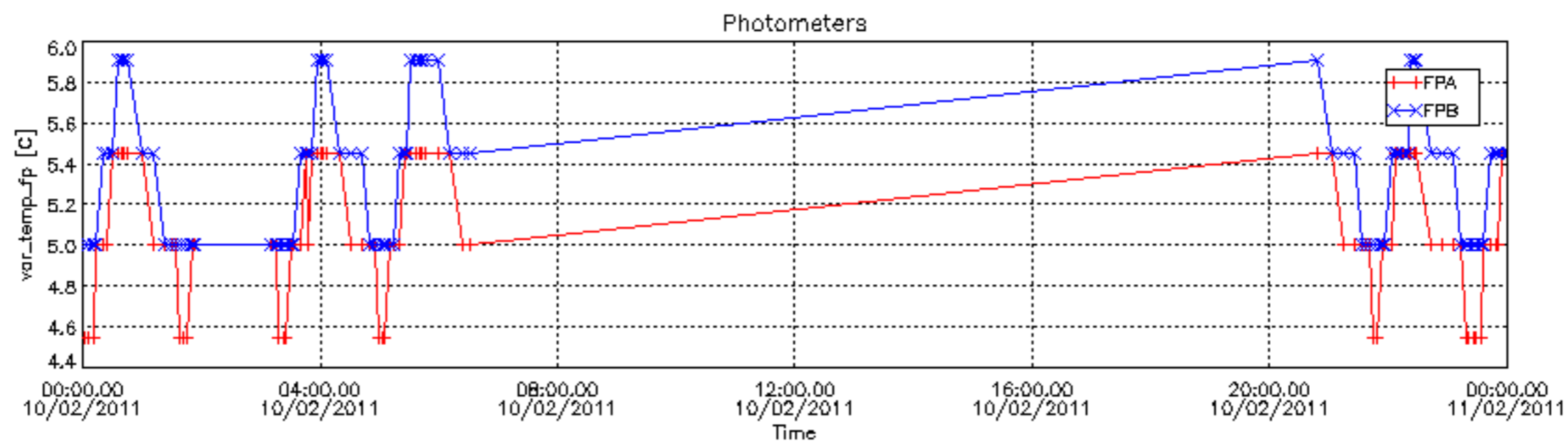
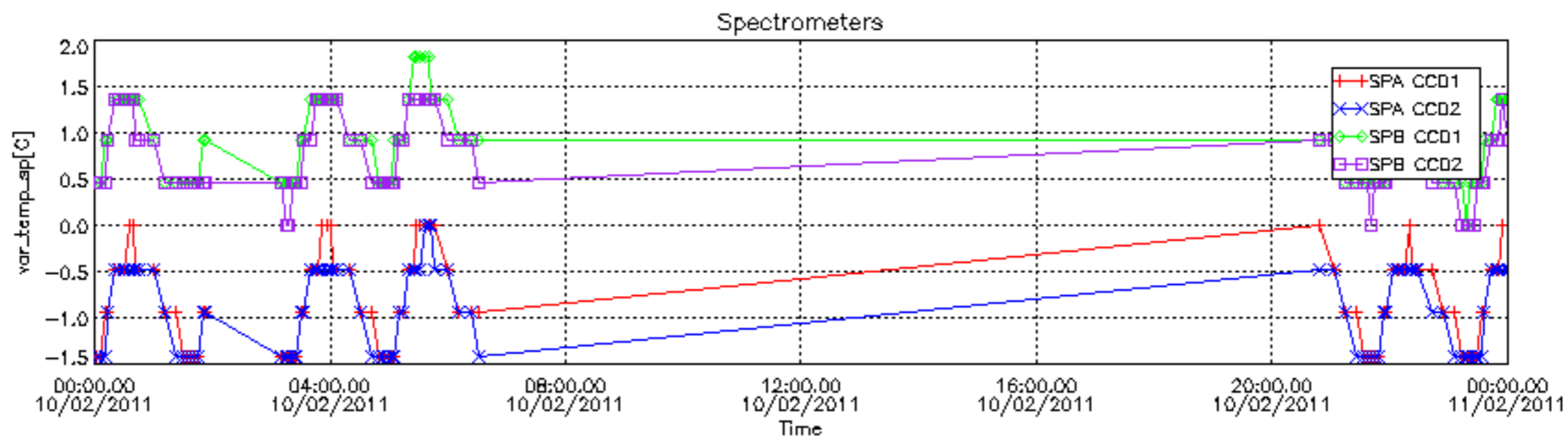


### 8. Auxiliary Data Files used for the production reported in section 2.4

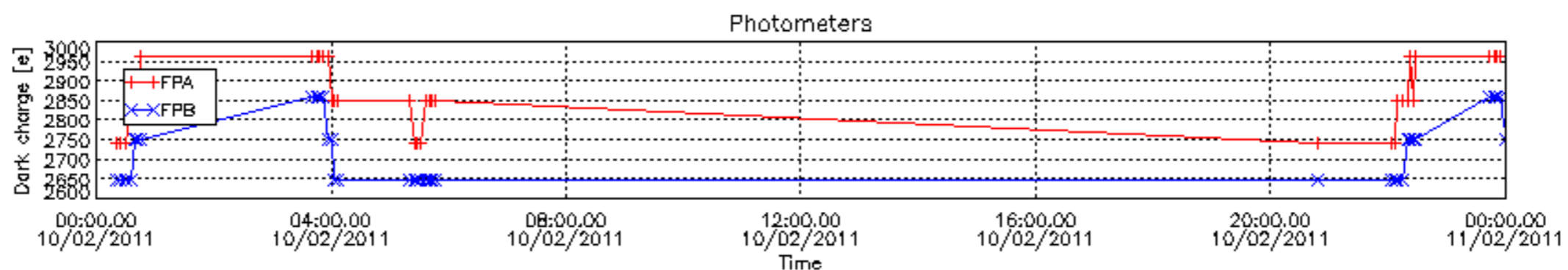
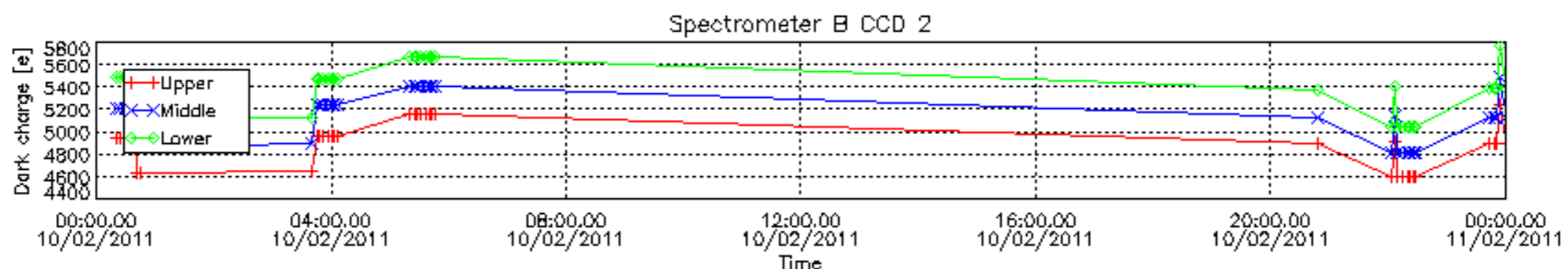
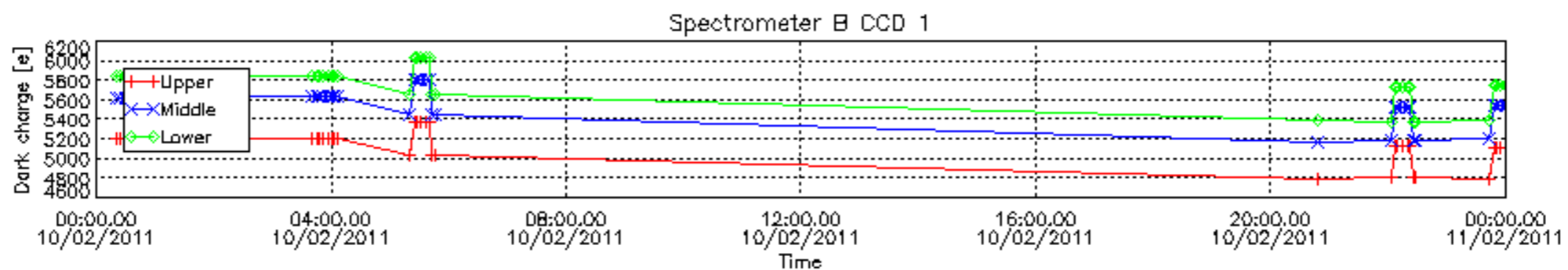
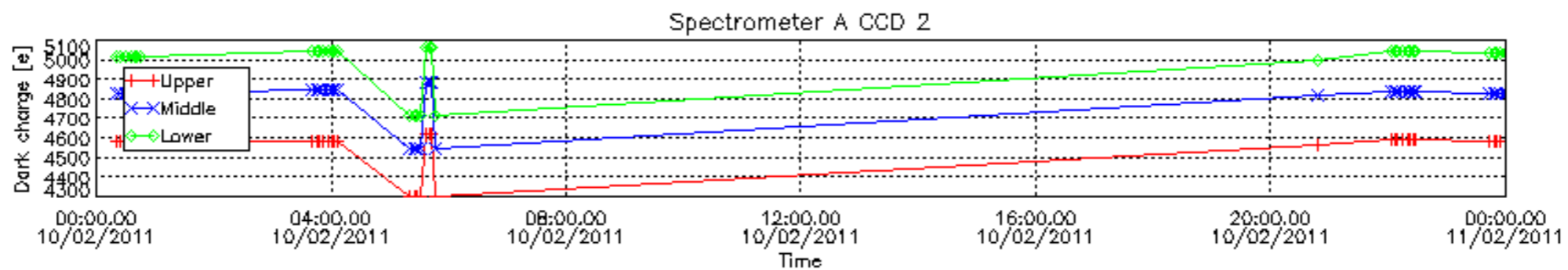
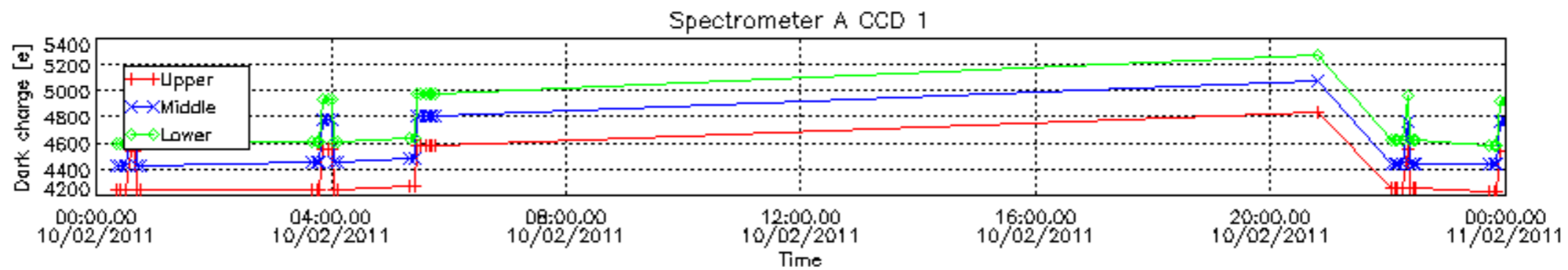
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

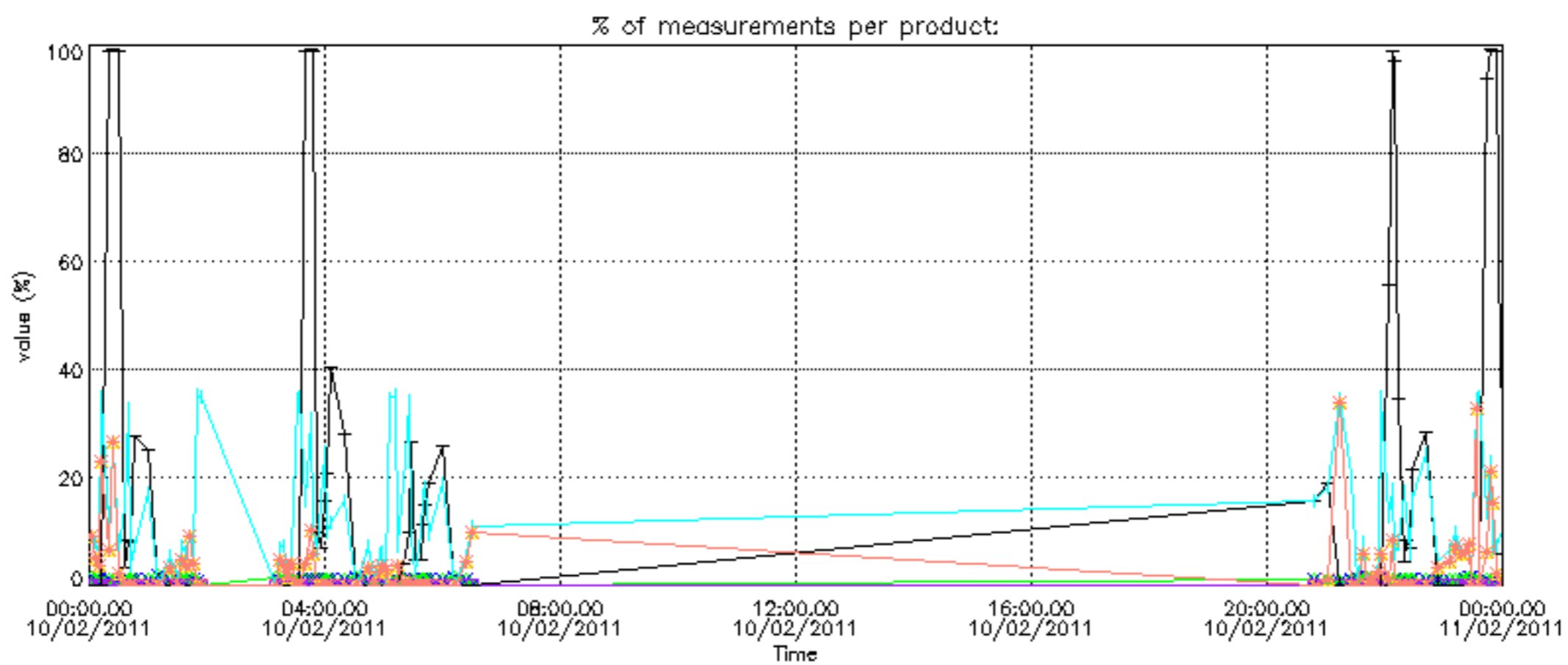
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	10-FEB-2011 00:02:03
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110208_091853_20110206_000000_20500101_000000	1	10-FEB-2011 00:02:03
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	10-FEB-2011 00:02:03
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-FEB-2011 00:02:03
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	10-FEB-2011 00:02:03
ECMWF_FILE	AUX_ECA_AXNECM20110210_104131_20110209_210000_20110210_090000	1	10-FEB-2011 00:02:03
ECMWF_FILE	AUX_ECA_AXNECM20110210_172131_20110210_030000_20110210_150000	22	10-FEB-2011 03:10:09
ECMWF_FILE	AUX_ECA_AXNECM20110210_104131_20110209_210000_20110210_090000	41	10-FEB-2011 04:55:12
ECMWF_FILE	AUX_ECA_AXNECM20110211_051038_20110210_150000_20110211_030000	59	10-FEB-2011 20:48:10
ECMWF_FILE	AUX_ECA_AXNECM20110211_051038_20110210_210000_20110211_090000	70	10-FEB-2011 22:03:03
OPTIONAL_ECMWF_FILE	MISSING	1	10-FEB-2011 00:02:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110209_223531_000057383099_00216_46782_2496.N1	1	10-FEB-2011 00:02:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110210_001628_000054193099_00217_46783_2497.N1	5	10-FEB-2011 00:19:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110210_030629_000057383099_00219_46785_2499.N1	22	10-FEB-2011 03:10:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110210_044726_000057383099_00220_46786_2500.N1	41	10-FEB-2011 04:55:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110210_204348_000041443099_00230_46796_2501.N1	59	10-FEB-2011 20:48:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110210_215811_000057383099_00230_46796_2502.N1	70	10-FEB-2011 22:03:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110210_233908_000057383099_00231_46797_2503.N1	88	10-FEB-2011 23:43:18



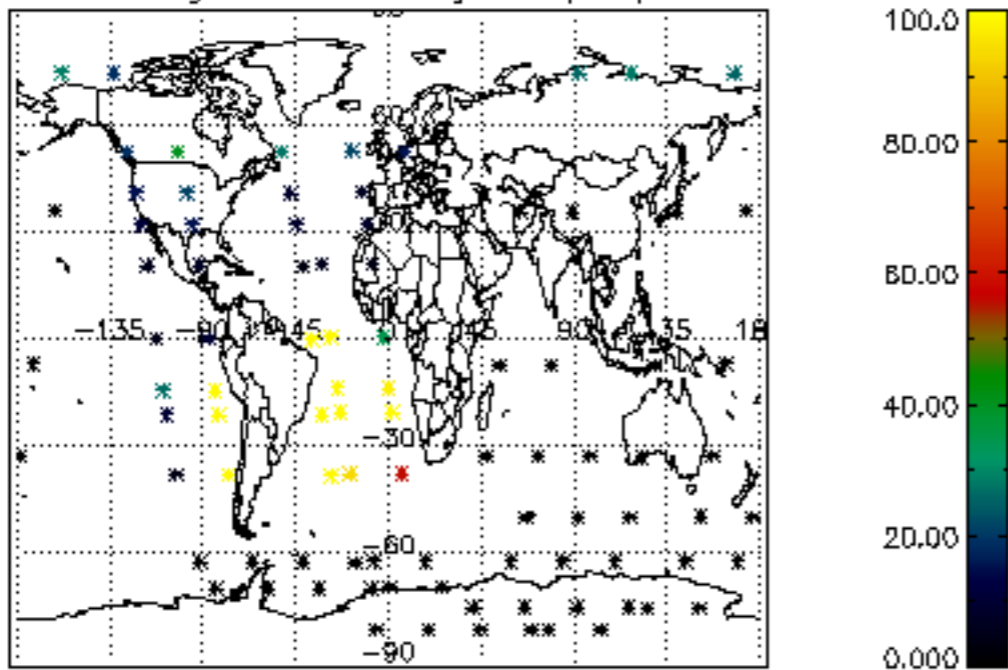




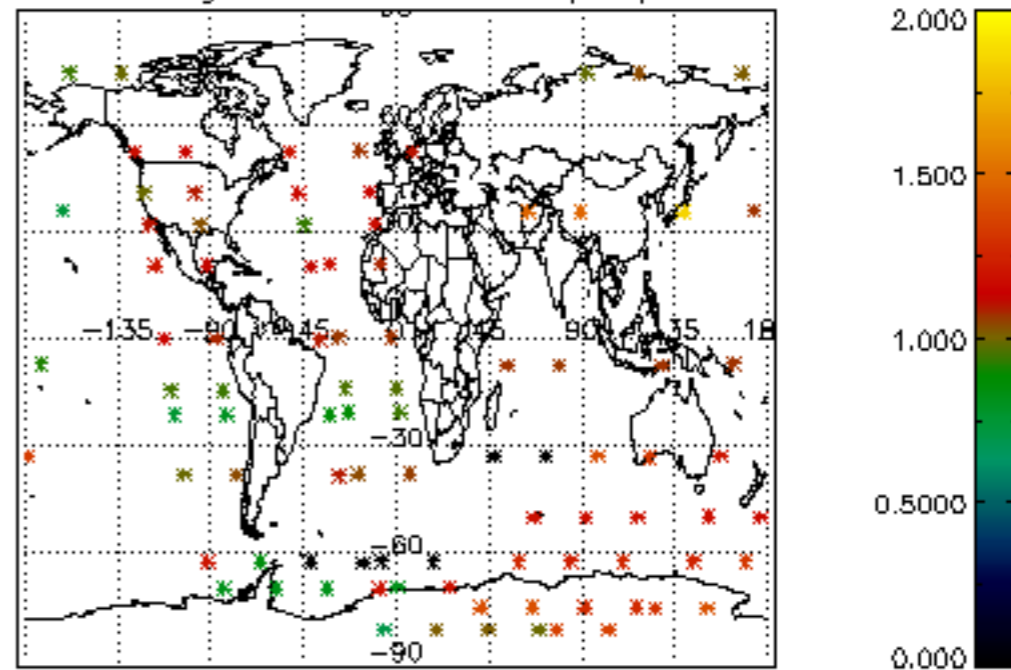




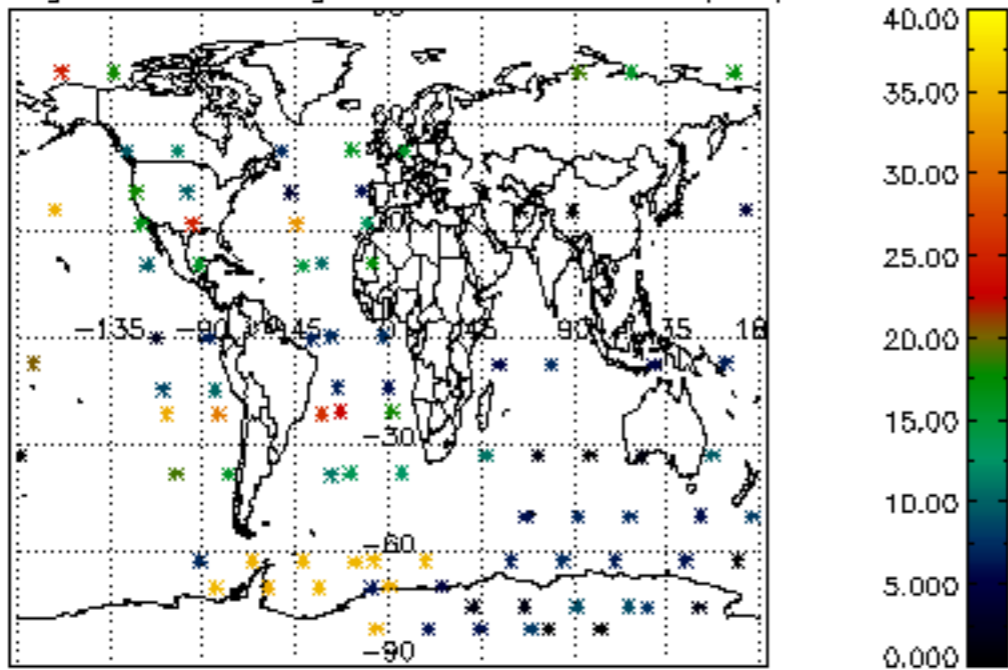
Percentage of cosmic ray hits per profile



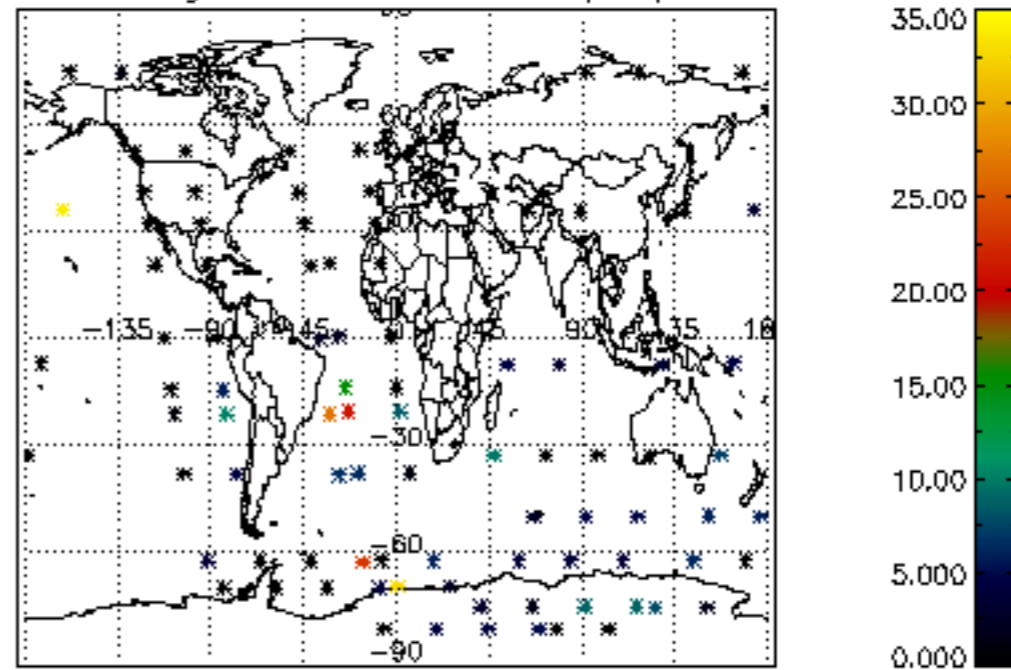
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

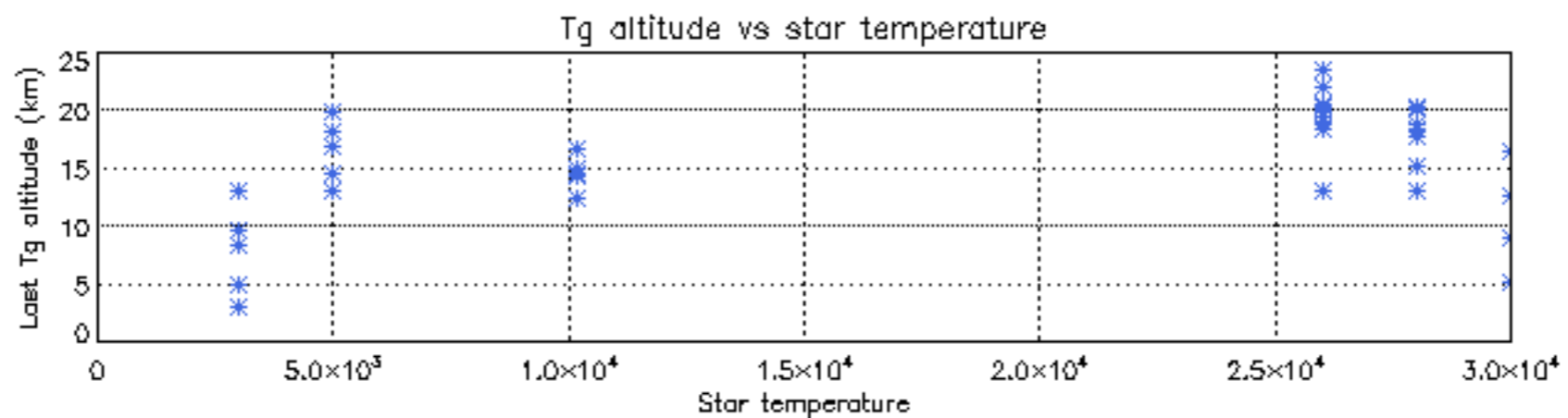
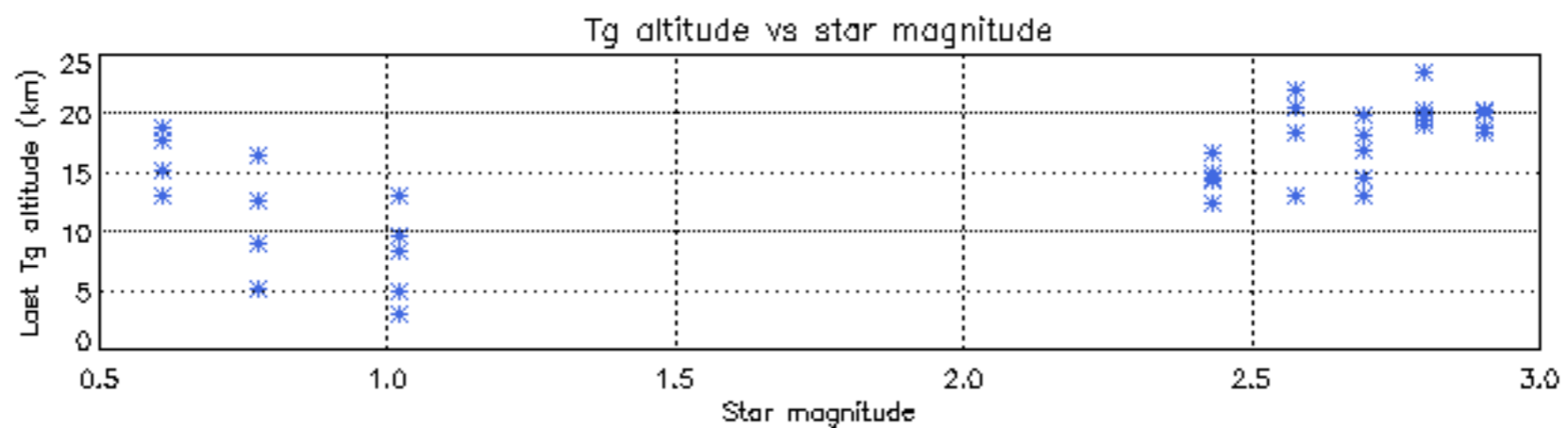
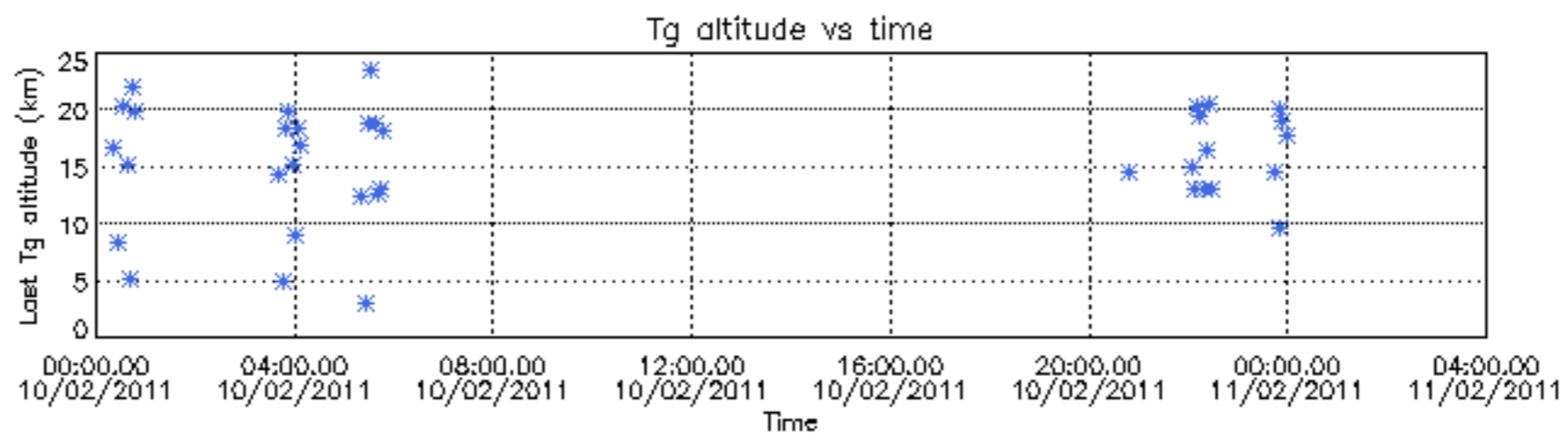


Percentage of saturation errors per profile

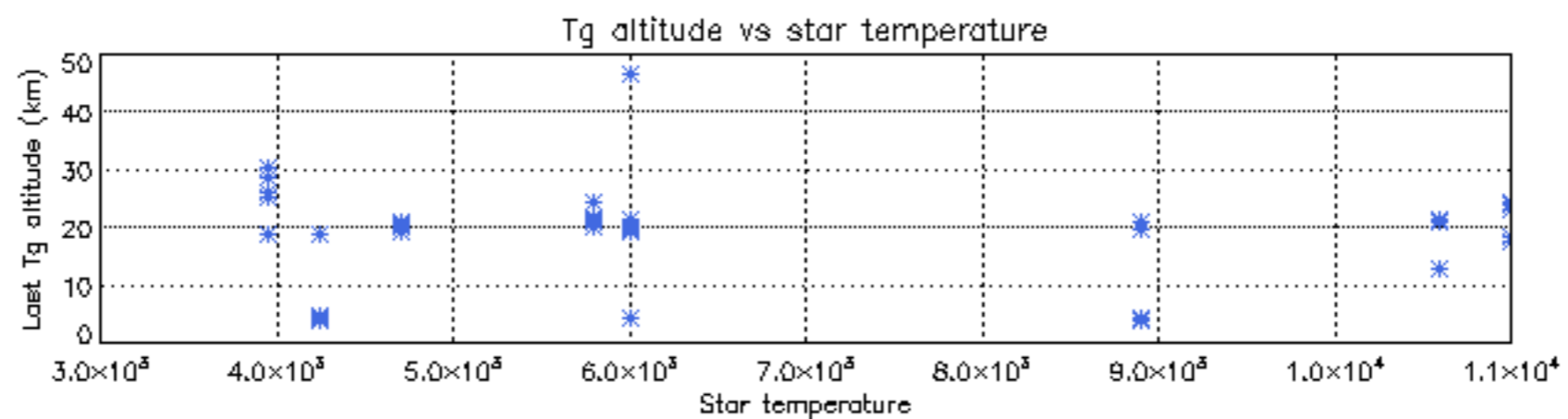
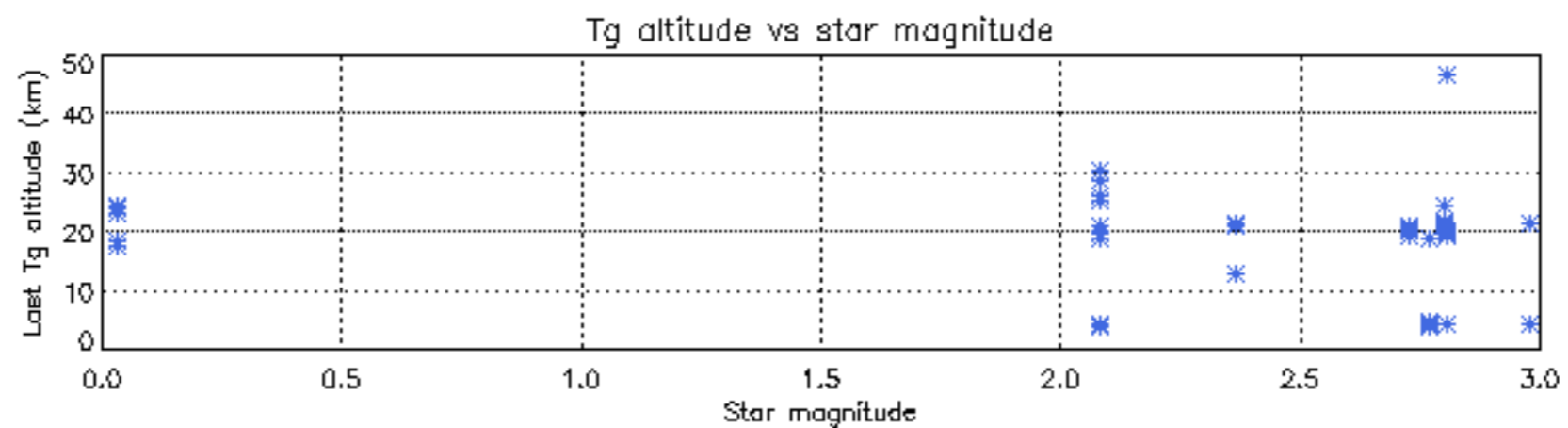
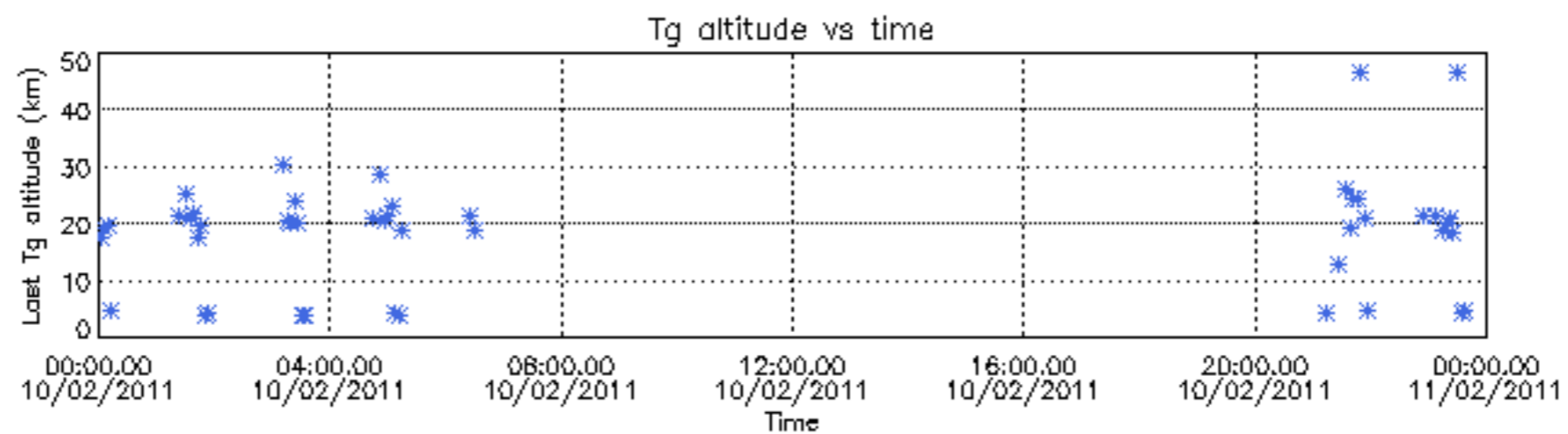


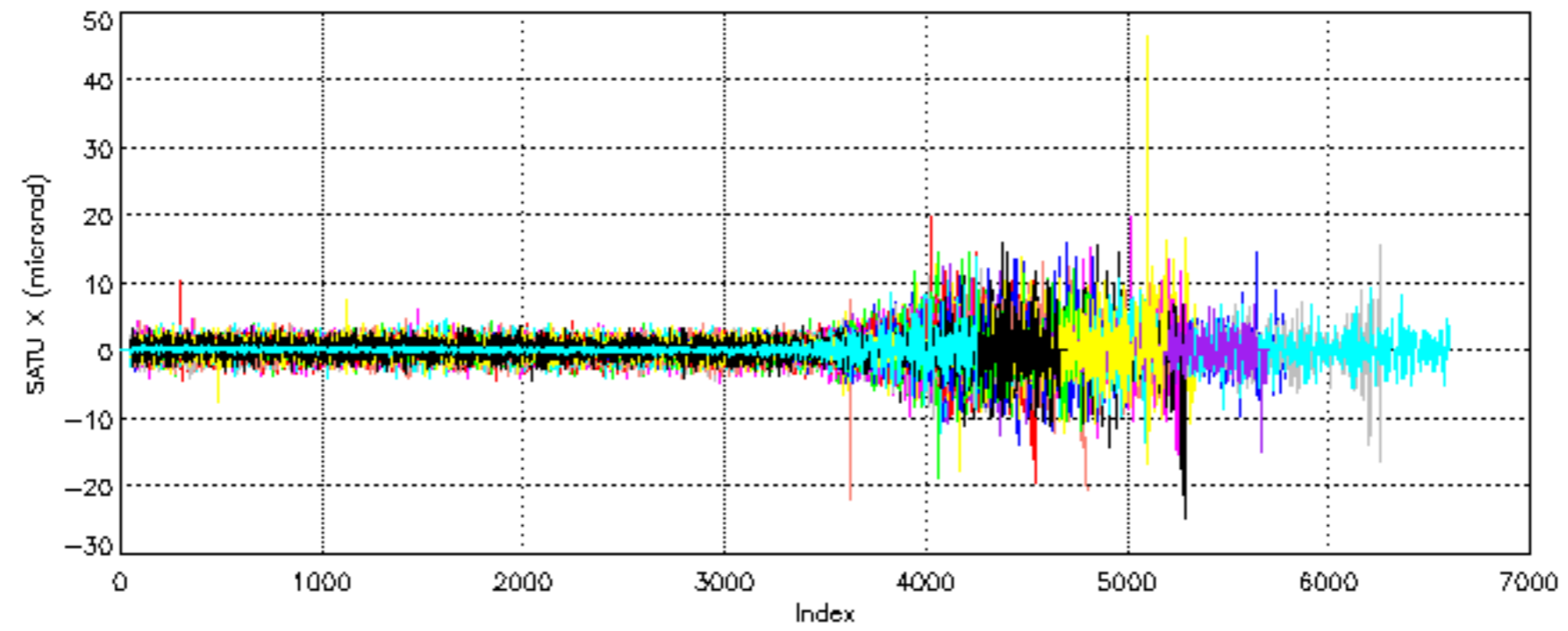


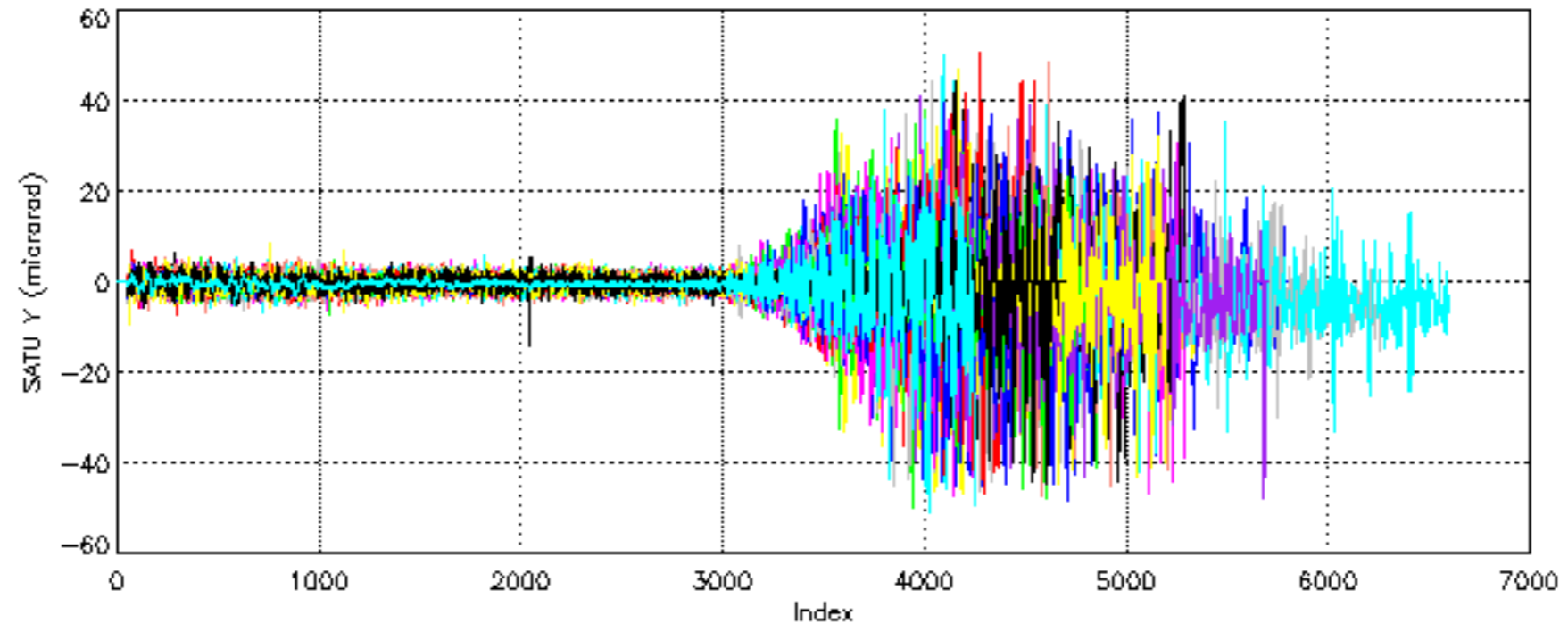
Tangent altitude at which the star is lost



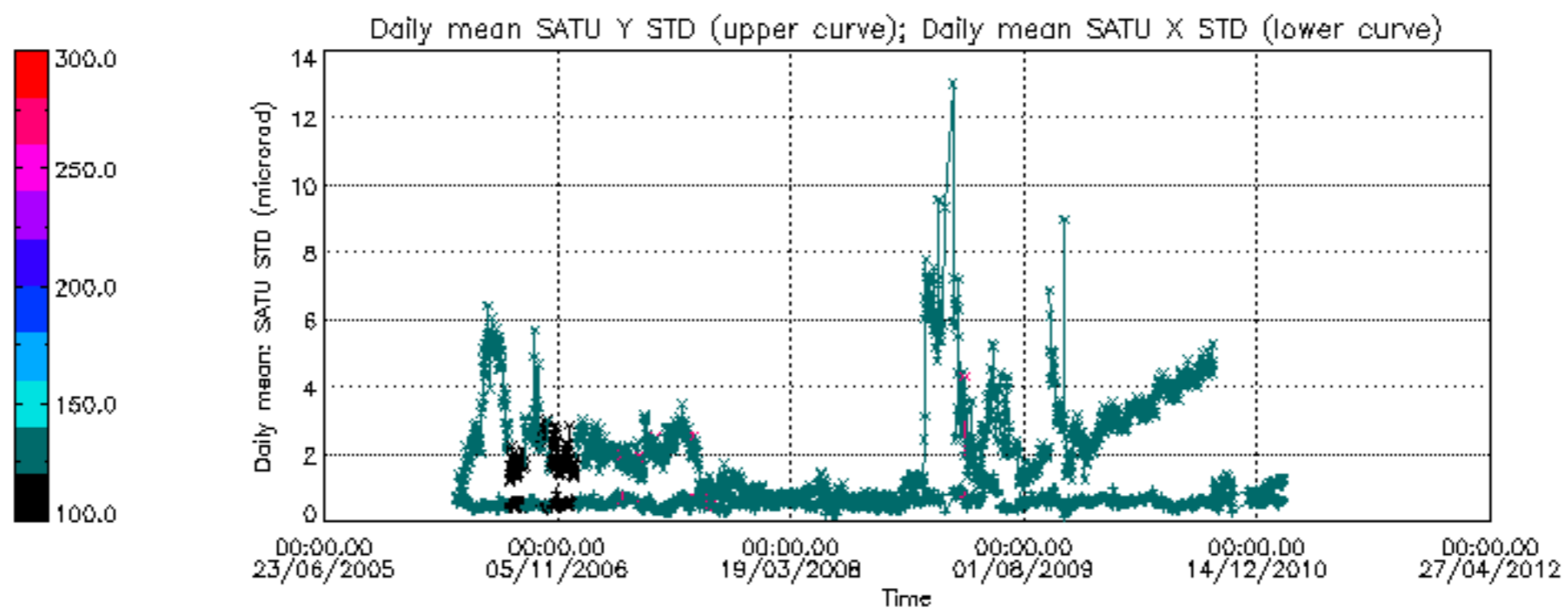
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20110201\_004830\_000056763099\_00088\_46654\_2201.N1

1; -719.1; 01-FEB-2011 00:48:30; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 7;46654  
 2; -464.4; 01-FEB-2011 00:52:45; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;46654  
 3; 15.5; 01-FEB-2011 01:00:45; Dark ; 44.5; 109; Bet Lup ; 2.68; 26000;occ; 89; 0;46655  
 4; 109.8; 01-FEB-2011 01:02:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46655  
 5; 263.2; 01-FEB-2011 01:04:53; Dark ; 52.5; 10; Bet Cen ; 0.61; 28000;occ; 105; 0;46655  
 6; 465.9; 01-FEB-2011 01:08:15; Dark ; 50.0; 12; Alp1Cru ; 0.77; 30000;occ; 100; 0;46655  
 7; 587.0; 01-FEB-2011 01:10:16; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;46655  
 8; 808.8; 01-FEB-2011 01:13:58; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;46655  
 9; 1072.2; 01-FEB-2011 01:18:22; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;46655  
 10; 1457.7; 01-FEB-2011 01:24:47; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;46655  
 11; 1730.7; 01-FEB-2011 01:29:20; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;46655  
 12; 1980.4; 01-FEB-2011 01:33:30; Dark ; 48.5; 8; 10Alp CMi ; 0.40; 6500;occ; 97; 0;46655  
 13; 2379.1; 01-FEB-2011 01:40:09; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;46655  
 14; 3264.1; 01-FEB-2011 01:54:54; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;46655  
 15; 3593.4; 01-FEB-2011 02:00:23; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;46655  
 16; 3875.8; 01-FEB-2011 02:05:05; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;46655  
 17; 4066.7; 01-FEB-2011 02:08:16; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;46655  
 18; 4465.4; 01-FEB-2011 02:14:55; Bright; 63.0; 133; 40Zet Her ; 2.81; 6000;occ; 126; 0;46655  
 19; 4682.8; 01-FEB-2011 02:18:32; Bright; 47.0; 127; 27Bet Her ; 2.78; 4700;occ; 94; 0;46655  
 20; 4903.9; 01-FEB-2011 02:22:13; Bright; 53.5; 126; 60Bet Oph ; 2.77; 4250;occ; 107; 0;46655

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20110201\_022842\_000040273099\_00089\_46655\_2202.N1

1; -721.9; 01-FEB-2011 02:28:42; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;46655  
 2; -463.6; 01-FEB-2011 02:33:00; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;46655  
 3; -117.1; 01-FEB-2011 02:38:46; Dark ; 45.5; 131; Gam Lup ; 2.80; 26000;occ; 91; 0;46655  
 4; 16.4; 01-FEB-2011 02:41:00; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;46656  
 5; 110.5; 01-FEB-2011 02:42:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46656  
 6; 263.8; 01-FEB-2011 02:45:07; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;46656  
 7; 466.5; 01-FEB-2011 02:48:30; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;46656  
 8; 587.9; 01-FEB-2011 02:50:31; Dark ; 46.0; 99; Del Cen ; 2.58; 26000;occ; 92; 0;46656  
 9; 809.5; 01-FEB-2011 02:54:13; Dark ; 50.0; 113; Mu Vel ; 2.69; 5000;occ; 100; 0;46656  
 10; 1072.7; 01-FEB-2011 02:58:36; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;46656  
 11; 1458.0; 01-FEB-2011 03:05:01; Dark ; 40.5; 132; 15Rho Pup ; 2.80; 6900;occ; 81; 0;46656  
 12; 1730.8; 01-FEB-2011 03:09:34; Dark ; 53.0; 48; 30Alp Hya ; 1.98; 4100;occ; 106; 0;46656  
 13; 1980.5; 01-FEB-2011 03:13:44; Dark ; 49.0; 8; 10Alp CMi ; 0.40; 6500;occ; 98; 0;46656  
 14; 2379.1; 01-FEB-2011 03:20:23; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;46656  
 15; 3263.7; 01-FEB-2011 03:35:07; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;46656

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20110201\_034037\_000060543099\_00090\_46656\_2203.N1

1; -2420.8; 01-FEB-2011 03:40:37; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;46656  
 2; -2138.3; 01-FEB-2011 03:45:19; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;46656  
 3; -1947.4; 01-FEB-2011 03:48:30; Bright; 55.0; 130; 23Bet Dra ; 2.80; 5800;occ; 110; 0;46656  
 4; -1548.3; 01-FEB-2011 03:55:09; Bright; 63.0; 133; 40Zet Her ; 2.81; 6000;occ; 126; 0;46656  
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4; -82.9; 03-FEB-2011 23:08:55; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;46696
5; 54.6; 03-FEB-2011 23:11:13; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;46697
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18; 4471.2; 04-FEB-2011 00:24:49; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;46697
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6; 4066.0; 03-FEB-2011 09:15:58; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;46688
7; 4470.0; 03-FEB-2011 09:22:42; Bright; 43.0; 133; 40Zet Her ; 2.81; 6000;occ; 86; 0;46688
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9; 4914.8; 03-FEB-2011 09:30:07; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;46688
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 7; 4470.3; 03-FEB-2011 12:43:10; Bright; 65.0; 133; 40Zet Her ; 2.81; 6000;occ; 130; 0;46690  
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 9; 4915.5; 03-FEB-2011 12:50:35; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;46690  
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 19; 6843.8; 03-FEB-2011 13:22:44; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;46691  
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 9; 4916.3; 03-FEB-2011 16:11:04; Bright; 56.0; 126; 60Bet Oph ; 2.77; 4250;occ; 112; 0;46692
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13; 5927.7; 03-FEB-2011 16:27:56; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;46692
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 9; 4916.5; 03-FEB-2011 17:51:18; Bright; 56.0; 126; 60Bet Oph ; 2.77; 4250;occ; 112; 0;46693
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 3; 3232.4; 04-FEB-2011 10:05:35; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0;46703
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 6; 4065.3; 04-FEB-2011 10:19:27; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;46703
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 3; 151.3; 05-FEB-2011 01:56:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46713  
 4; 298.0; 05-FEB-2011 01:59:00; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;46713  
 5; 496.8; 05-FEB-2011 02:02:19; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;46713  
 6; 631.7; 05-FEB-2011 02:04:34; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;46713  
 7; 842.0; 05-FEB-2011 02:08:04; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;46713  
 8; 1092.0; 05-FEB-2011 02:12:14; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;46713  
 9; 1727.6; 05-FEB-2011 02:22:50; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;46713  
 10; 2373.1; 05-FEB-2011 02:33:35; Bright; 41.0; 17; 78Bet Gem ; 1.16; 4500;occ; 82; 0;46713  
 11; 3226.0; 05-FEB-2011 02:47:48; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0;46713  
 12; 3578.6; 05-FEB-2011 02:53:41; Bright; 10.5; 60; 7Bet UMi ; 2.08; 3950;occ; 21; 0;46713

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 4; -1540.6; 05-FEB-2011 03:08:35; Bright; 46.0; 133; 40Zet Her ; 2.81; 6000;occ; 92; 0;46713  
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 11; 152.0; 05-FEB-2011 03:36:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46714  
 12; 298.6; 05-FEB-2011 03:39:15; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;46714  
 13; 497.2; 05-FEB-2011 03:42:33; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;46714  
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19; 3225.5; 05-FEB-2011 04:28:02; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0;46714
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10; 152.7; 05-FEB-2011 05:17:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46715
11; 299.3; 05-FEB-2011 05:19:29; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;46715
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13; 633.5; 05-FEB-2011 05:25:04; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;46715
14; 843.2; 05-FEB-2011 05:28:33; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;46715
15; 1092.6; 05-FEB-2011 05:32:43; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;46715
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 4; 3219.0; 05-FEB-2011 21:10:15; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;46724
 5; 3575.7; 05-FEB-2011 21:16:12; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46724
 6; 3862.2; 05-FEB-2011 21:20:59; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;46724
 7; 4064.6; 05-FEB-2011 21:24:21; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;46724
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 9; 4707.7; 05-FEB-2011 21:35:04; Bright; 52.5; 127; 27Bet Her ; 2.78; 4700;occ; 105; 0;46724
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 3; -312.8; 05-FEB-2011 21:51:38; Dark ; 49.5; 158; 6Pi Sco ; 2.91; 28000;occ; 99; 0;46724
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 6; 503.0; 05-FEB-2011 22:05:13; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;46725
 7; 640.7; 05-FEB-2011 22:07:31; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;46725
 8; 848.5; 05-FEB-2011 22:10:59; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;46725
 9; 1097.4; 05-FEB-2011 22:15:08; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;46725
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12; 3218.4; 05-FEB-2011 22:50:29; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0;46725
13; 3575.3; 05-FEB-2011 22:56:26; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;46725
14; 3861.9; 05-FEB-2011 23:01:12; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;46725
15; 4064.5; 05-FEB-2011 23:04:35; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;46725
16; 4475.1; 05-FEB-2011 23:11:25; Bright; 47.0; 133; 40Zet Her ; 2.81; 6000;occ; 94; 0;46725
17; 4708.1; 05-FEB-2011 23:15:18; Bright; 73.0; 127; 27Bet Her ; 2.78; 4700;occ; 146; 0;46725
18; 4928.1; 05-FEB-2011 23:18:58; Bright; 57.0; 126; 60Bet Oph ; 2.77; 4250;occ; 114; 0;46725
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 9; -66.3; 05-FEB-2011 06:53:38; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;46715
10; 153.4; 05-FEB-2011 06:57:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46716
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13; 5948.5; 05-FEB-2011 08:33:53; Dark ; 44.5; 131; Gam Lup ; 2.80; 26000;occ; 89; 0;46716
14; 6168.2; 05-FEB-2011 08:37:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46717
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 4; 3209.9; 06-FEB-2011 20:33:22; Bright; 45.5; 36; 50Alp UMA ; 1.80; 6300;occ; 91; 0;46738
 5; 3571.7; 06-FEB-2011 20:39:24; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46738
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 7; 4063.6; 06-FEB-2011 20:47:36; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;46738
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 9; 4713.4; 06-FEB-2011 20:58:26; Bright; 27.0; 127; 27Bet Her ; 2.78; 4700;occ; 54; 0;46738
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 8; 855.9; 06-FEB-2011 21:34:22; Dark ; 50.5; 113; Mu Vel ; 2.69; 5000;occ; 101; 0;46739
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 6; 314.3; 06-FEB-2011 23:05:35; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;46740
 7; 510.8; 06-FEB-2011 23:08:51; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;46740
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 13; 3571.2; 06-FEB-2011 23:59:52; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;46740  
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 9; 894.2; 12-FEB-2011 02:52:31; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46814
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 8; -237.4; 13-FEB-2011 05:17:24; Dark ; 28.0; 80; 7Del Sco ; 2.32; 30000;occ; 56; 0;46829
 9; -190.2; 13-FEB-2011 05:18:11; Dark ; 54.0; 158; 6Pi Sco ; 2.91; 28000;occ; 108; 0;46829
10; 41.6; 13-FEB-2011 05:22:03; Dark ; 47.0; 131; Gam Lup ; 2.80; 26000;occ; 94; 0;46830
11; 238.6; 13-FEB-2011 05:25:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46830
12; 369.8; 13-FEB-2011 05:27:31; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;46830
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16; 1727.3; 13-FEB-2011 05:50:08; Dark ; 41.5; 48; 30Alp Hya ; 1.98; 4100;occ; 83; 0;46830
17; 2383.0; 13-FEB-2011 06:01:04; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;46830
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13; 648.5; 13-FEB-2011 07:12:24; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;46831
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 6; 4056.4; 13-FEB-2011 08:09:11; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;46831
 7; 4305.3; 13-FEB-2011 08:13:20; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;46831
 8; 4838.6; 13-FEB-2011 08:22:14; Bright; 43.0; 59; 55Alp Oph ; 2.08; 8900;occ; 86; 0;46831
 9; 4973.5; 13-FEB-2011 08:24:29; Bright; 46.5; 126; 60Bet Oph ; 2.77; 4250;occ; 93; 0;46831
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13; 6057.5; 13-FEB-2011 08:42:33; Dark ; 48.0; 131; Gam Lup ; 2.80; 26000;occ; 96; 0;46832
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16; 6571.9; 13-FEB-2011 08:51:07; Dark ; 50.0; 12; Alp1Cru ; 0.77; 30000;occ; 100; 0;46832
17; 6663.0; 13-FEB-2011 08:52:38; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;46832
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 4; 3835.1; 13-FEB-2011 09:45:44; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;46832
 5; 4056.3; 13-FEB-2011 09:49:25; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;46832
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 11; 5827.6; 13-FEB-2011 10:18:57; Dark ; 54.0; 158; 6Pi Sco ; 2.91; 28000;occ; 108; 0;46832  
 12; 6058.6; 13-FEB-2011 10:22:48; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;46833  
 13; 6254.9; 13-FEB-2011 10:26:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46833  
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 3; 3544.7; 13-FEB-2011 11:21:08; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;46833  
 4; 3834.5; 13-FEB-2011 11:25:57; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;46833  
 5; 4056.2; 13-FEB-2011 11:29:39; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;46833  
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 7; 4839.5; 13-FEB-2011 11:42:43; Bright; 45.0; 59; 55Alp Oph ; 2.08; 8900;occ; 90; 0;46833  
 8; 4974.6; 13-FEB-2011 11:44:58; Bright; 45.5; 126; 60Bet Oph ; 2.77; 4250;occ; 91; 0;46833  
 9; 5406.6; 13-FEB-2011 11:52:10; Dark ; 47.5; 86; 35Eta Oph ; 2.43; 10200;occ; 95; 0;46833  
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 13; 6255.6; 13-FEB-2011 12:06:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46834  
 14; 6386.1; 13-FEB-2011 12:08:29; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;46834  
 15; 6572.7; 13-FEB-2011 12:11:36; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;46834  
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 3; 3094.1; 13-FEB-2011 12:53:51; Bright; 44.5; 82; 48Bet UMa ; 2.37; 10600;occ; 89; 0;46834  
 4; 3544.7; 13-FEB-2011 13:01:22; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;46834  
 5; 3834.4; 13-FEB-2011 13:06:11; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;46834  
 6; 4056.1; 13-FEB-2011 13:09:53; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;46834  
 7; 4305.5; 13-FEB-2011 13:14:02; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;46834  
 8; 4840.0; 13-FEB-2011 13:22:57; Bright; 59.0; 59; 55Alp Oph ; 2.08; 8900;occ; 118; 0;46834  
 9; 4975.1; 13-FEB-2011 13:25:12; Bright; 46.5; 126; 60Bet Oph ; 2.77; 4250;occ; 93; 0;46834  
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 12; 5830.3; 13-FEB-2011 13:39:27; Dark ; 54.5; 158; 6Pi Sco ; 2.91; 28000;occ; 109; 0;46834  
 13; 6060.8; 13-FEB-2011 13:43:18; Dark ; 46.0; 131; Gam Lup ; 2.80; 26000;occ; 92; 0;46835  
 14; 6256.4; 13-FEB-2011 13:46:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46835  
 15; 6386.9; 13-FEB-2011 13:48:44; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;46835  
 16; 6573.3; 13-FEB-2011 13:51:50; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;46835  
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 3; 3093.4; 13-FEB-2011 14:34:04; Bright; 46.0; 82; 48Bet UMa ; 2.37; 10600;occ; 92; 0;46835  
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 9; 4975.6; 13-FEB-2011 15:05:27; Bright; 50.5; 126; 60Bet Oph ; 2.77; 4250;occ; 101; 0;46835  
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 14; 6257.3; 13-FEB-2011 15:26:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46836  
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7; 4305.9; 13-FEB-2011 18:14:45; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;46837
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5; 3826.3; 15-FEB-2011 10:12:21; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;46861  
6; 4052.7; 15-FEB-2011 10:16:08; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;46861  
7; 4307.9; 15-FEB-2011 10:20:23; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;46861  
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9; 4988.6; 15-FEB-2011 10:31:44; Dark ; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;46861  
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5; 3825.6; 15-FEB-2011 13:32:49; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;46863  
6; 4052.5; 15-FEB-2011 13:36:36; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;46863  
7; 4308.2; 15-FEB-2011 13:40:51; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;46863  
8; 4853.2; 15-FEB-2011 13:49:56; Bright; 48.5; 59; 55Alp Oph ; 2.08; 8900;occ; 97; 0;46863  
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13; 6090.4; 15-FEB-2011 14:10:33; Dark ; 47.0; 131; Gam Lup ; 2.80; 26000;occ; 94; 0;46864  
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3; 3073.9; 15-FEB-2011 15:00:31; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;46864
4; 3535.4; 15-FEB-2011 15:08:12; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;46864
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6; 4052.7; 15-FEB-2011 15:16:50; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;46864
7; 4308.2; 15-FEB-2011 15:21:05; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;46864
8; 4853.7; 15-FEB-2011 15:30:11; Bright; 57.5; 59; 55Alp Oph ; 2.08; 8900;occ; 115; 0;46864
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14; 6279.5; 15-FEB-2011 15:53:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46865
15; 6405.4; 15-FEB-2011 15:56:02; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;46865
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7; 4308.4; 15-FEB-2011 17:01:19; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;46865
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17; 6575.1; 15-FEB-2011 17:39:06; Dark ; 52.0; 20; Bet Cru ; 1.25; 30000;occ; 104; 0;46866
18; 6649.4; 15-FEB-2011 17:40:21; Dark ; 41.0; 129; Del Cru ; 2.79; 26000;occ; 82; 0;46866
19; 6753.0; 15-FEB-2011 17:42:04; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;46866
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13; 5873.1; 15-FEB-2011 19:07:38; Dark ; 39.0; 158; 6Pi Sco ; 2.91; 28000;occ; 78; 0;46866
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16; 6406.4; 15-FEB-2011 19:16:32; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;46867
17; 6488.9; 15-FEB-2011 19:17:54; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;46867
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20; 6753.8; 15-FEB-2011 19:22:19; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;46867
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8; 86.1; 16-FEB-2011 05:12:49; Dark ; 49.0; 131; Gam Lup ; 2.80; 26000;occ; 98; 0;46873
9; 271.6; 16-FEB-2011 05:15:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46873
10; 396.2; 16-FEB-2011 05:17:59; Dark ; 50.0; 10; Bet Cen ; 0.61; 28000;occ; 100; 0;46873

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 13; 639.1; 16-FEB-2011 05:22:02; Dark ; 40.5; 129; Del Cru ; 2.79; 26000;occ; 81; 0;46873  
 14; 743.5; 16-FEB-2011 05:23:47; Dark ; 46.0; 99; Del Cen ; 2.58; 26000;occ; 92; 0;46873  
 15; 921.3; 16-FEB-2011 05:26:45; Dark ; 39.5; 113; Mu Vel ; 2.69; 5000;occ; 79; 0;46873  
 16; 1728.8; 16-FEB-2011 05:40:12; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;46873  
 17; 2165.0; 16-FEB-2011 05:47:28; Bright; 48.0; 22; 32Alp Leo ; 1.36; 15200;occ; 96; 0;46873  
 18; 2362.6; 16-FEB-2011 05:50:46; Bright; 45.0; 166; 17Eps Leo ; 2.98; 6000;occ; 90; 0;46873  
 19; 3067.9; 16-FEB-2011 06:02:31; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;46873  
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 3; 2160.8; 16-FEB-2011 20:49:30; Bright; 48.0; 22; 32Alp Leo ; 1.36; 15200;occ; 96; 0;46882  
 4; 2358.7; 16-FEB-2011 20:52:48; Bright; 47.0; 166; 17Eps Leo ; 2.98; 6000;occ; 94; 0;46882  
 5; 3061.7; 16-FEB-2011 21:04:31; Bright; 44.5; 82; 48Bet UMa ; 2.37; 10600;occ; 89; 0;46882  
 6; 3529.8; 16-FEB-2011 21:12:19; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;46882  
 7; 3819.6; 16-FEB-2011 21:17:09; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;46882  
 8; 4050.1; 16-FEB-2011 21:20:59; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;46882  
 9; 4309.6; 16-FEB-2011 21:25:19; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;46882  
 10; 4862.3; 16-FEB-2011 21:34:32; Bright; 50.0; 59; 55Alp Oph ; 2.08; 8900;occ; 100; 0;46882  
 11; 4999.9; 16-FEB-2011 21:36:49; Dark ; 50.5; 126; 60Bet Oph ; 2.77; 4250;occ; 101; 0;46882

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 3; 97.5; 16-FEB-2011 23:35:35; Dark ; 47.5; 131; Gam Lup ; 2.80; 26000;occ; 95; 0;46884  
 4; 280.0; 16-FEB-2011 23:38:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46884  
 5; 403.1; 16-FEB-2011 23:40:40; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;46884  
 6; 487.6; 16-FEB-2011 23:42:05; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;46884  
 7; 628.4; 16-FEB-2011 23:44:26; Dark ; 59.0; 26; Gam Cru ; 1.62; 2900;occ; 118; 0;46884  
 8; 750.6; 16-FEB-2011 23:46:28; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;46884  
 9; 926.0; 16-FEB-2011 23:49:23; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;46884  
 10; 1729.0; 17-FEB-2011 00:02:46; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;46884  
 11; 2160.0; 17-FEB-2011 00:09:57; Bright; 50.5; 22; 32Alp Leo ; 1.36; 15200;occ; 101; 0;46884  
 12; 2357.8; 17-FEB-2011 00:13:15; Bright; 43.5; 166; 17Eps Leo ; 2.98; 6000;occ; 87; 0;46884  
 13; 3060.5; 17-FEB-2011 00:24:58; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;46884  
 14; 3529.3; 17-FEB-2011 00:32:46; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;46884  
 15; 3819.0; 17-FEB-2011 00:37:36; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;46884  
 16; 4049.8; 17-FEB-2011 00:41:27; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;46884  
 17; 4309.8; 17-FEB-2011 00:45:47; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;46884  
 18; 4863.2; 17-FEB-2011 00:55:00; Bright; 49.5; 59; 55Alp Oph ; 2.08; 8900;occ; 99; 0;46884  
 19; 5001.2; 17-FEB-2011 00:57:18; Dark ; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;46884

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 6; -573.9; 16-FEB-2011 06:42:03; Dark ; 49.5; 86; 35Eta Oph ; 2.43; 10200;occ; 99; 0;46873  
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 8; 87.0; 16-FEB-2011 06:53:04; Dark ; 48.0; 131; Gam Lup ; 2.80; 26000;occ; 96; 0;46874  
 9; 272.3; 16-FEB-2011 06:56:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46874  
 10; 396.9; 16-FEB-2011 06:58:14; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;46874  
 11; 480.0; 16-FEB-2011 06:59:37; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;46874  
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 13; 639.8; 16-FEB-2011 07:02:17; Dark ; 40.5; 129; Del Cru ; 2.79; 26000;occ; 81; 0;46874  
 14; 744.2; 16-FEB-2011 07:04:01; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;46874  
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 3; 2361.6; 16-FEB-2011 09:11:13; Bright; 44.0; 166; 17Eps Leo ; 2.98; 6000;occ; 88; 0;46875  
 4; 3066.4; 16-FEB-2011 09:22:58; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;46875  
 5; 3532.0; 16-FEB-2011 09:30:43; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;46875  
 6; 3821.8; 16-FEB-2011 09:35:33; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;46875  
 7; 4051.1; 16-FEB-2011 09:39:22; Bright; 49.0; 130; 23Bet Dra ; 2.80; 5800;occ; 98; 0;46875  
 8; 4309.1; 16-FEB-2011 09:43:40; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;46875  
 9; 4858.9; 16-FEB-2011 09:52:50; Bright; 48.5; 59; 55Alp Oph ; 2.08; 8900;occ; 97; 0;46875

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11; 5442.1; 16-FEB-2011 10:02:33; Dark ; 48.5; 86; 35Eta Oph ; 2.43; 10200;occ; 97; 0;46875
12; 5749.3; 16-FEB-2011 10:07:41; Dark ; 57.5; 16; 21Alp Sco ; 1.02; 3000;occ; 115; 0;46875
13; 6103.1; 16-FEB-2011 10:13:34; Dark ; 47.5; 131; Gam Lup ; 2.80; 26000;occ; 95; 0;46876
14; 6287.8; 16-FEB-2011 10:16:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46876
15; 6412.2; 16-FEB-2011 10:18:43; Dark ; 54.5; 10; Bet Cen ; 0.61; 28000;occ; 109; 0;46876
16; 6495.5; 16-FEB-2011 10:20:07; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;46876
17; 6580.7; 16-FEB-2011 10:21:32; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;46876
18; 6654.6; 16-FEB-2011 10:22:46; Dark ; 41.0; 129; Del Cru ; 2.79; 26000;occ; 82; 0;46876
19; 6759.5; 16-FEB-2011 10:24:31; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;46876
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 2; 2163.5; 16-FEB-2011 10:48:09; Bright; 51.0; 22; 32Alp Leo ; 1.36; 15200;occ; 102; 0;46876
 3; 2361.1; 16-FEB-2011 10:51:26; Bright; 44.5; 166; 17Eps Leo ; 2.98; 6000;occ; 89; 0;46876
 4; 3065.7; 16-FEB-2011 11:03:11; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;46876
 5; 3531.6; 16-FEB-2011 11:10:57; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;46876
 6; 3821.5; 16-FEB-2011 11:15:47; Bright; 45.5; 119; 14Eta Dra ; 2.73; 4700;occ; 91; 0;46876
 7; 4051.0; 16-FEB-2011 11:19:36; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;46876
 8; 4309.1; 16-FEB-2011 11:23:54; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;46876
 9; 4859.3; 16-FEB-2011 11:33:04; Bright; 46.5; 59; 55Alp Oph ; 2.08; 8900;occ; 93; 0;46876
10; 4996.8; 16-FEB-2011 11:35:22; Dark ; 54.0; 126; 60Bet Oph ; 2.77; 4250;occ; 108; 0;46876
11; 5443.0; 16-FEB-2011 11:42:48; Dark ; 52.5; 86; 35Eta Oph ; 2.43; 10200;occ; 105; 0;46876
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14; 6288.6; 16-FEB-2011 11:56:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46877
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16; 6496.2; 16-FEB-2011 12:00:21; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;46877
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13; 6105.3; 16-FEB-2011 13:34:04; Dark ; 48.5; 131; Gam Lup ; 2.80; 26000;occ; 97; 0;46878
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16; 6581.9; 16-FEB-2011 13:42:01; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;46878
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 4; 3064.5; 16-FEB-2011 14:23:38; Bright; 44.0; 82; 48Bet UMa ; 2.37; 10600;occ; 88; 0;46878
 5; 3531.0; 16-FEB-2011 14:31:24; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;46878
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11; 5444.9; 16-FEB-2011 15:03:18; Dark ; 52.0; 86; 35Eta Oph ; 2.43; 10200;occ; 104; 0;46878
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13; 6106.3; 16-FEB-2011 15:14:19; Dark ; 48.5; 131; Gam Lup ; 2.80; 26000;occ; 97; 0;46879
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3; 280.8; 17-FEB-2011 01:18:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46885
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6; 3797.2; 21-FEB-2011 09:51:57; Bright; 46.0; 119; 14Eta Dra ; 2.73; 4700;occ; 92; 0;46947  
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9; 4747.7; 22-FEB-2011 12:51:31; Bright; 55.0; 168; 17Zet Aql ; 2.99; 11000;occ; 110; 0;46963
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 7; 3779.1; 24-FEB-2011 16:22:37; Bright; 45.5; 119; 14Eta Dra ; 2.73; 4700;occ; 91; 0;46994
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13; 5620.9; 24-FEB-2011 16:53:19; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;46994
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 7; 3778.6; 24-FEB-2011 18:02:50; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;46995
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13; 5621.4; 24-FEB-2011 18:33:33; Dark ; 41.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 83; 0;46995
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 21; 6831.1; 24-FEB-2011 18:53:43; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;46996  
 22; 6985.3; 24-FEB-2011 18:56:17; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;46996

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 18; 4758.4; 25-FEB-2011 02:40:20; Bright; 56.0; 168; 17Zet Aql ; 2.99; 11000;occ; 112; 0;47000  
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 26; 6487.9; 25-FEB-2011 03:09:10; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;47001  
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 33; 9005.8; 25-FEB-2011 03:51:08; Bright; 42.5; 82; 48Bet UMa ; 2.37; 10600;occ; 85; 0;47001  
 34; 9096.1; 25-FEB-2011 03:52:38; Bright; 47.5; 87; 64Gam UMa ; 2.43; 11000;occ; 95; 0;47001

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 16; 2121.1; 25-FEB-2011 06:57:05; Bright; 39.5; 22; 32Alp Leo ; 1.36; 15200;occ; 79; 0;47003  
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 19; 2990.9; 25-FEB-2011 07:11:35; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;47003  
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 5; 3074.2; 25-FEB-2011 20:34:50; Bright; 48.0; 87; 64Gam UMa ; 2.43; 11000;occ; 96; 0;47011  
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 22; 4761.6; 25-FEB-2011 22:43:12; Bright; 38.5; 168; 17Zet Aql ; 2.99; 11000;occ; 77; 0;47012  
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