

# GOMOS Daily Report 16-FEB-2011

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

## [Level 2 products](#)

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	19FEB2011 04:52:43
Data source version	GOMOS/5.01
Start time of products	16FEB2011 00:01:04
Stop time of products	16FEB2011 23:49:23
Store outputs in DB	Yes
Nb of level 1b prods	91
Nb of prods with errors	2

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

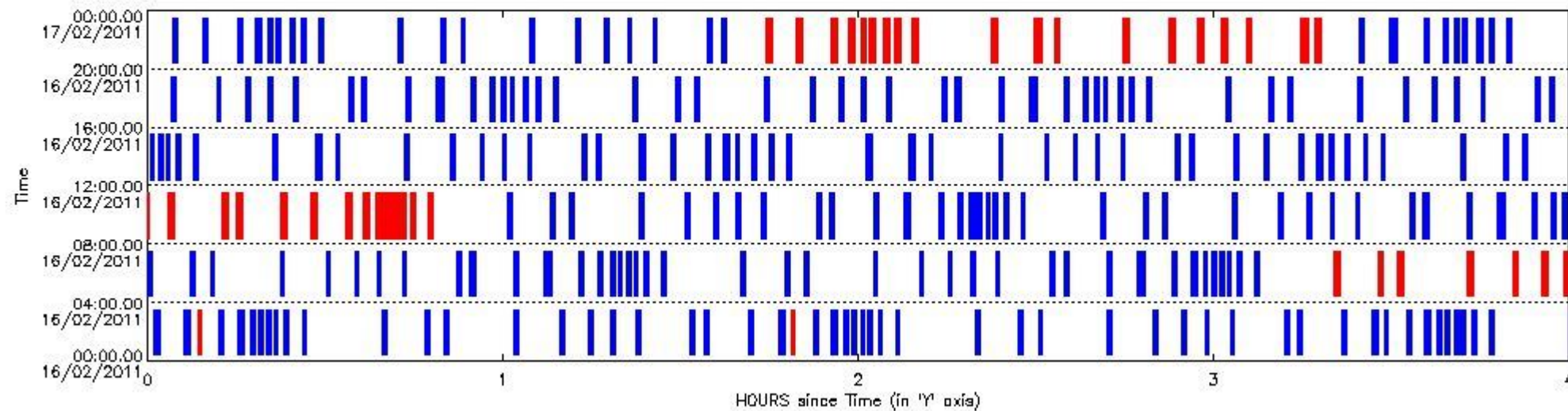
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
16-FEB-2011 00:08:22	6PiSco	158	46869
16-FEB-2011 01:48:38	6PiSco	158	46870
16-FEB-2011 07:20:24	30AlpHya	48	46874
16-FEB-2011 07:27:39	32AlpLeo	22	46874
16-FEB-2011 07:30:57	17EpsLeo	166	46874
16-FEB-2011 07:42:42	48BetUMa	82	46874
16-FEB-2011 07:50:27	7BetUMi	60	46874
16-FEB-2011 07:55:17	14EtaDra	119	46874
16-FEB-2011 07:59:06	23BetDra	130	46874
16-FEB-2011 08:03:24	3AlpLyr	5	46874
16-FEB-2011 08:12:33	55AlpOph	59	46874
16-FEB-2011 08:14:51	60BetOph	126	46874
16-FEB-2011 08:22:16	35EtaOph	86	46874
16-FEB-2011 08:27:23	21AlpSco	16	46874
16-FEB-2011 08:33:17	GamLup	131	46875

16-FEB-2011 08:36:22	DSA1027	0	46875
16-FEB-2011 08:38:26	BetCen	10	46875
16-FEB-2011 08:39:50	EpsCen	77	46875
16-FEB-2011 08:41:15	BetCru	20	46875
16-FEB-2011 08:42:29	DelCru	129	46875
16-FEB-2011 08:44:14	DelCen	99	46875
16-FEB-2011 08:47:11	MuVel	113	46875
16-FEB-2011 21:44:16	35EtaOph	86	46882
16-FEB-2011 21:49:24	21AlpSco	16	46882
16-FEB-2011 21:55:18	GamLup	131	46883
16-FEB-2011 21:58:20	DSA1027	0	46883
16-FEB-2011 22:00:23	BetCen	10	46883
16-FEB-2011 22:01:48	EpsCen	77	46883
16-FEB-2011 22:04:09	GamCru	26	46883
16-FEB-2011 22:06:11	DelCen	99	46883
16-FEB-2011 22:09:07	MuVel	113	46883
16-FEB-2011 22:22:30	30AlpHya	48	46883
16-FEB-2011 22:29:42	32AlpLeo	22	46883
16-FEB-2011 22:32:59	17EpsLeo	166	46883
16-FEB-2011 22:44:42	48BetUMa	82	46883
16-FEB-2011 22:52:31	7BetUMi	60	46883
16-FEB-2011 22:57:20	14EtaDra	119	46883
16-FEB-2011 23:01:11	23BetDra	130	46883
16-FEB-2011 23:05:31	3AlpLyr	5	46883
16-FEB-2011 23:14:44	55AlpOph	59	46883
16-FEB-2011 23:17:02	60BetOph	126	46883

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

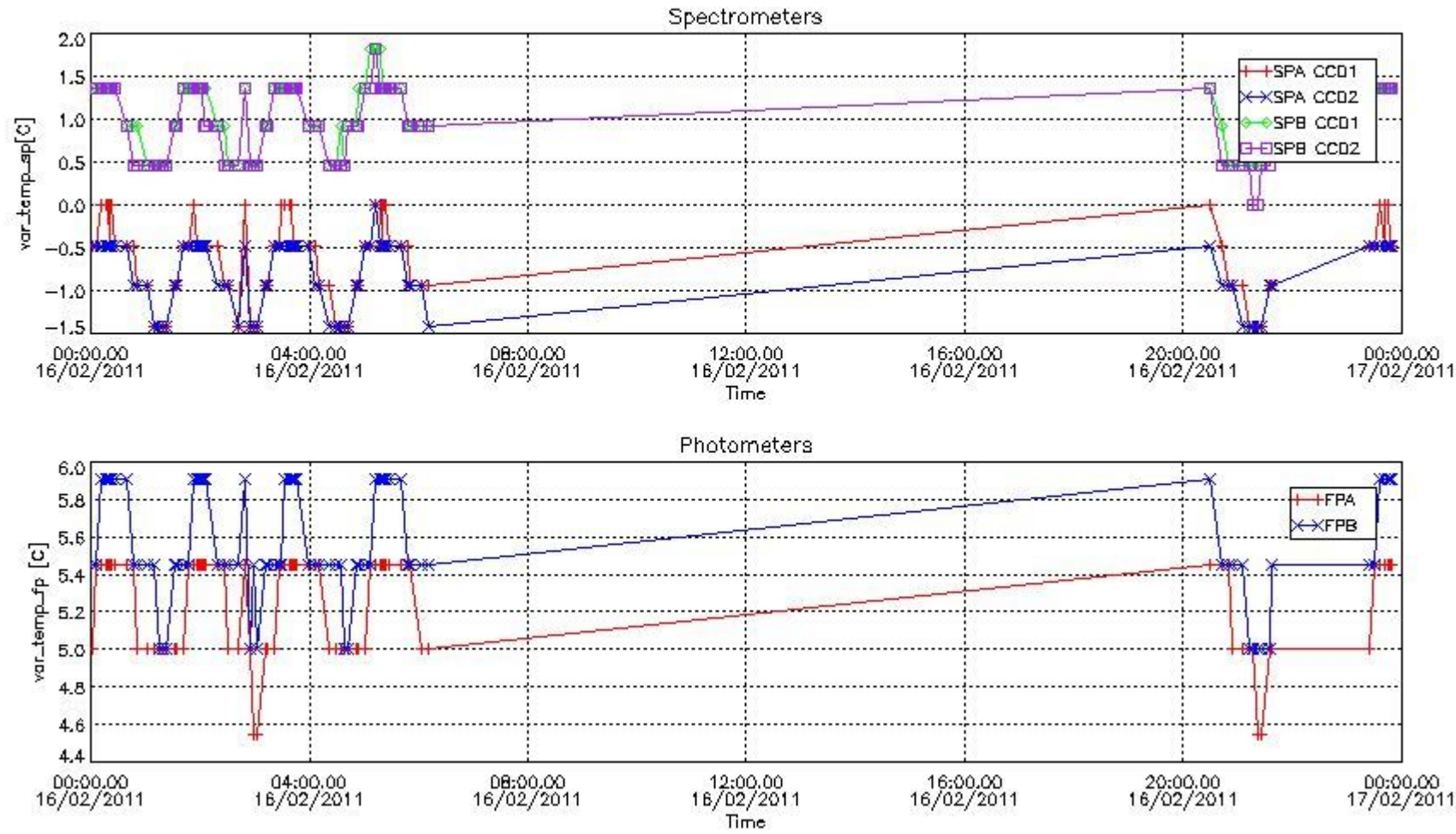
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20110216_000104_000000523099_00303_46869_2107.N1	16-FEB-2011 00:01:04	Dark	51.500	86	35Eta Oph	2.4300	10200.	103	46869	No
2	GOM_TRA_1PNPDE20110216_000610_000000623099_00303_46869_2108.N1	16-FEB-2011 00:06:10	Dark	62.000	16	21Alp Sco	1.0200	3000.0	124	46869	No
3	GOM_TRA_1PNPDE20110216_001204_000000493099_00304_46870_2109.N1	16-FEB-2011 00:12:04	Dark	48.500	131	Gam Lup	2.8000	26000.	97	46870	No
4	GOM_TRA_1PNPDE20110216_001715_000000443099_00304_46870_2110.N1	16-FEB-2011 00:17:15	Dark	44.000	10	Bet Cen	0.61000	28000.	88	46870	No
5	GOM_TRA_1PNPDE20110216_001838_000000443099_00304_46870_2111.N1	16-FEB-2011 00:18:38	Dark	44.000	77	Eps Cen	2.3030	28000.	88	46870	No
6	GOM_TRA_1PNPDE20110216_002004_000000433099_00304_46870_2112.N1	16-FEB-2011 00:20:04	Dark	43.000	20	Bet Cru	1.2530	30000.	86	46870	No
7	GOM_TRA_1PNPDE20110216_002118_000000403099_00304_46870_2113.N1	16-FEB-2011 00:21:18	Dark	39.500	129	Del Cru	2.7930	26000.	79	46870	No
8	GOM_TRA_1PNPDE20110216_002303_000000443099_00304_46870_2114.N1	16-FEB-2011 00:23:03	Dark	44.000	99	Del Cen	2.5750	26000.	88	46870	No
9	GOM_TRA_1PNPDE20110216_002601_000000443099_00304_46870_2115.N1	16-FEB-2011 00:26:01	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	46870	No
10	GOM_TRA_1PNPDE20110216_003929_000000483099_00304_46870_2116.N1	16-FEB-2011 00:39:29	Straylight	47.500	48	30Alp Hya	1.9770	4100.0	95	46870	No
11	GOM_TRA_1PNPDE20110216_004647_000000413099_00304_46870_2117.N1	16-FEB-2011 00:46:47	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	46870	No
12	GOM_TRA_1PNPDE20110216_005005_000000463099_00304_46870_2118.N1	16-FEB-2011 00:50:05	Bright	45.500	166	17Eps Leo	2.9800	6000.0	91	46870	No
13	GOM_TRA_1PNPDE20110216_010151_000000453099_00304_46870_2119.N1	16-FEB-2011 01:01:51	Bright	44.500	82	48Bet UMa	2.3650	10600.	89	46870	No
14	GOM_TRA_1PNPDE20110216_010935_000000403099_00304_46870_2120.N1	16-FEB-2011 01:09:35	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	46870	No
15	GOM_TRA_1PNPDE20110216_011424_000000433099_00304_46870_2121.N1	16-FEB-2011 01:14:24	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	46870	No
16	GOM_TRA_1PNPDE20110216_011813_000000423099_00304_46870_2122.N1	16-FEB-2011 01:18:13	Bright	42.000	130	23Bet Dra	2.7990	5800.0	84	46870	No
17	GOM_TRA_1PNPDE20110216_012230_000000383099_00304_46870_2123.N1	16-FEB-2011 01:22:30	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	46870	No
18	GOM_TRA_1PNPDE20110216_013137_000000493099_00304_46870_2124.N1	16-FEB-2011 01:31:37	Bright	48.500	59	55Alp Oph	2.0800	8900.0	97	46870	No
19	GOM_TRA_1PNPDE20110216_013355_000000513099_00304_46870_2125.N1	16-FEB-2011 01:33:55	Twilight	51.000	126	60Bet Oph	2.7700	4250.0	102	46870	No
20	GOM_TRA_1PNPDE20110216_014119_000000483099_00304_46870_2123.N1	16-FEB-2011 01:41:19	Dark	48.000	86	35Eta Oph	2.4300	10200.	96	46870	No
21	GOM_TRA_1PNPDE20110216_014624_000000673099_00304_46870_2124.N1	16-FEB-2011 01:46:24	Dark	67.000	16	21Alp Sco	1.0200	3000.0	134	46870	No
22	GOM_TRA_1PNPDE20110216_015219_000000493099_00305_46871_2125.N1	16-FEB-2011 01:52:19	Dark	49.000	131	Gam Lup	2.8000	26000.	98	46871	No
23	GOM_TRA_1PNPDE20110216_015730_000000433099_00305_46871_2126.N1	16-FEB-2011 01:57:30	Dark	43.000	10	Bet Cen	0.61000	28000.	86	46871	No
24	GOM_TRA_1PNPDE20110216_015853_000000463099_00305_46871_2127.N1	16-FEB-2011 01:58:53	Dark	46.000	77	Eps Cen	2.3030	28000.	92	46871	No
25	GOM_TRA_1PNPDE20110216_020019_000000433099_00305_46871_2128.N1	16-FEB-2011 02:00:19	Dark	43.000	20	Bet Cru	1.2530	30000.	86	46871	No
26	GOM_TRA_1PNPDE20110216_020133_000000413099_00305_46871_2129.N1	16-FEB-2011 02:01:33	Dark	40.500	129	Del Cru	2.7930	26000.	81	46871	No
27	GOM_TRA_1PNPDE20110216_020317_000000433099_00305_46871_2130.N1	16-FEB-2011 02:03:17	Dark	43.000	99	Del Cen	2.5750	26000.	86	46871	No
28	GOM_TRA_1PNPDE20110216_020615_000000413099_00305_46871_2131.N1	16-FEB-2011 02:06:15	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	46871	No

29	GOM_TRA_1PNPDE20110216_021944_000000413099_00305_46871_2132.N1	16-FEB-2011 02:19:44	Straylight	41.000	48	30Alp Hya	1.9770	4100.0	82	46871	No
30	GOM_TRA_1PNPDE20110216_022701_000000413099_00305_46871_2133.N1	16-FEB-2011 02:27:01	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	46871	No
31	GOM_TRA_1PNPDE20110216_023018_000000463099_00305_46871_2134.N1	16-FEB-2011 02:30:18	Bright	45.500	166	17Eps Leo	2.9800	6000.0	91	46871	No
32	GOM_TRA_1PNPDE20110216_024204_000000463099_00305_46871_2135.N1	16-FEB-2011 02:42:04	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	46871	No
33	GOM_TRA_1PNPDE20110216_024948_000000423099_00305_46871_2150.N1	16-FEB-2011 02:49:48	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	46871	Yes
34	GOM_TRA_1PNPDE20110216_025438_000000433099_00305_46871_2151.N1	16-FEB-2011 02:54:38	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	46871	No
35	GOM_TRA_1PNPDE20110216_025827_000000423099_00305_46871_2152.N1	16-FEB-2011 02:58:27	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	46871	No
36	GOM_TRA_1PNPDE20110216_030244_000000383099_00305_46871_2153.N1	16-FEB-2011 03:02:44	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	46871	No
37	GOM_TRA_1PNPDE20110216_031152_000000513099_00305_46871_2154.N1	16-FEB-2011 03:11:52	Bright	50.500	59	55Alp Oph	2.0800	8900.0	101	46871	No
38	GOM_TRA_1PNPDE20110216_031409_000000523099_00305_46871_2155.N1	16-FEB-2011 03:14:09	Tw_i_and_stray	52.000	126	60Bet Oph	2.7700	4250.0	104	46871	No
39	GOM_TRA_1PNPDE20110216_032134_000000533099_00305_46871_2156.N1	16-FEB-2011 03:21:34	Dark	52.500	86	35Eta Oph	2.4300	10200.	105	46871	No
40	GOM_TRA_1PNPDE20110216_032640_000000723099_00305_46871_2157.N1	16-FEB-2011 03:26:40	Dark	72.000	16	21Alp Sco	1.0200	3000.0	144	46871	No
41	GOM_TRA_1PNPDE20110216_032855_000000283099_00305_46871_2158.N1	16-FEB-2011 03:28:55	Dark	28.000	158	6Pi Sco	2.9060	28000.	56	46871	No
42	GOM_TRA_1PNPDE20110216_033234_000000483099_00306_46872_2159.N1	16-FEB-2011 03:32:34	Dark	47.500	131	Gam Lup	2.8000	26000.	95	46872	No
43	GOM_TRA_1PNPDE20110216_033745_000000453099_00306_46872_2160.N1	16-FEB-2011 03:37:45	Dark	44.500	10	Bet Cen	0.61000	28000.	89	46872	No
44	GOM_TRA_1PNPDE20110216_033908_000000453099_00306_46872_2161.N1	16-FEB-2011 03:39:08	Dark	45.000	77	Eps Cen	2.3030	28000.	90	46872	No
45	GOM_TRA_1PNPDE20110216_034034_000000493099_00306_46872_2162.N1	16-FEB-2011 03:40:34	Dark	49.000	20	Bet Cru	1.2530	30000.	98	46872	No
46	GOM_TRA_1PNPDE20110216_034148_000000413099_00306_46872_2163.N1	16-FEB-2011 03:41:48	Dark	41.000	129	Del Cru	2.7930	26000.	82	46872	No
47	GOM_TRA_1PNPDE20110216_034332_000000453099_00306_46872_2164.N1	16-FEB-2011 03:43:32	Dark	44.500	99	Del Cen	2.5750	26000.	89	46872	No
48	GOM_TRA_1PNPDE20110216_034630_000000453099_00306_46872_2165.N1	16-FEB-2011 03:46:30	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	46872	No
49	GOM_TRA_1PNPDE20110216_035958_000000423099_00306_46872_2166.N1	16-FEB-2011 03:59:58	Straylight	41.500	48	30Alp Hya	1.9770	4100.0	83	46872	No
50	GOM_TRA_1PNPDE20110216_040714_000000483099_00306_46872_2167.N1	16-FEB-2011 04:07:14	Bright	48.000	22	32Alp Leo	1.3600	15200.	96	46872	No
51	GOM_TRA_1PNPDE20110216_041032_000000453099_00306_46872_2168.N1	16-FEB-2011 04:10:32	Bright	44.500	166	17Eps Leo	2.9800	6000.0	89	46872	No
52	GOM_TRA_1PNPDE20110216_042218_000000463099_00306_46872_2169.N1	16-FEB-2011 04:22:18	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	46872	No
53	GOM_TRA_1PNPDE20110216_043002_000000393099_00306_46872_2170.N1	16-FEB-2011 04:30:02	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	46872	No
54	GOM_TRA_1PNPDE20110216_043452_000000443099_00306_46872_2169.N1	16-FEB-2011 04:34:52	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	46872	No
55	GOM_TRA_1PNPDE20110216_043841_000000423099_00306_46872_2170.N1	16-FEB-2011 04:38:41	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	46872	No
56	GOM_TRA_1PNPDE20110216_044258_000000383099_00306_46872_2171.N1	16-FEB-2011 04:42:58	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	46872	No
57	GOM_TRA_1PNPDE20110216_045207_000000483099_00306_46872_2172.N1	16-FEB-2011 04:52:07	Bright	48.000	59	55Alp Oph	2.0800	8900.0	96	46872	No
58	GOM_TRA_1PNPDE20110216_045424_000000503099_00306_46872_2173.N1	16-FEB-2011 04:54:24	Tw_i_and_stray	49.500	126	60Bet Oph	2.7700	4250.0	99	46872	No
59	GOM_TRA_1PNPDE20110216_050149_000000493099_00306_46872_2174.N1	16-FEB-2011 05:01:49	Dark	49.000	86	35Eta Oph	2.4300	10200.	98	46872	No
60	GOM_TRA_1PNPDE20110216_050655_000000723099_00306_46872_2175.N1	16-FEB-2011 05:06:55	Dark	72.000	16	21Alp Sco	1.0200	3000.0	144	46872	No
61	GOM_TRA_1PNPDE20110216_051249_000000493099_00307_46873_2176.N1	16-FEB-2011 05:12:49	Dark	49.000	131	Gam Lup	2.8000	26000.	98	46873	No
62	GOM_TRA_1PNPDE20110216_051759_000000503099_00307_46873_2177.N1	16-FEB-2011 05:17:59	Dark	50.000	10	Bet Cen	0.61000	28000.	100	46873	No
63	GOM_TRA_1PNPDE20110216_051923_000000443099_00307_46873_2178.N1	16-FEB-2011 05:19:23	Dark	43.500	77	Eps Cen	2.3030	28000.	87	46873	No
64	GOM_TRA_1PNPDE20110216_052048_000000503099_00307_46873_2179.N1	16-FEB-2011 05:20:48	Dark	49.500	20	Bet Cru	1.2530	30000.	99	46873	No
65	GOM_TRA_1PNPDE20110216_052202_000000413099_00307_46873_2180.N1	16-FEB-2011 05:22:02	Dark	40.500	129	Del Cru	2.7930	26000.	81	46873	No
66	GOM_TRA_1PNPDE20110216_052347_000000463099_00307_46873_2181.N1	16-FEB-2011 05:23:47	Dark	46.000	99	Del Cen	2.5750	26000.	92	46873	No
67	GOM_TRA_1PNPDE20110216_052645_000000403099_00307_46873_2182.N1	16-FEB-2011 05:26:45	Dark	39.500	113	Mu Vel	2.6920	5000.0	79	46873	No
68	GOM_TRA_1PNPDE20110216_054012_000000473099_00307_46873_2183.N1	16-FEB-2011 05:40:12	Straylight	47.000	48	30Alp Hya	1.9770	4100.0	94	46873	No
69	GOM_TRA_1PNPDE20110216_054728_000000483099_00307_46873_2184.N1	16-FEB-2011 05:47:28	Bright	48.000	22	32Alp Leo	1.3600	15200.	96	46873	No
70	GOM_TRA_1PNPDE20110216_055046_000000453099_00307_46873_2185.N1	16-FEB-2011 05:50:46	Bright	45.000	166	17Eps Leo	2.9800	6000.0	90	46873	No
71	GOM_TRA_1PNPDE20110216_060231_000000443099_00307_46873_2186.N1	16-FEB-2011 06:02:31	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	46873	No
72	GOM_TRA_1PNPDE20110216_061016_000000393099_00307_46873_2187.N1	16-FEB-2011 06:10:16	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	46873	No
73	GOM_TRA_1PNPDE20110216_202855_000000453099_00316_46882_2381.N1	16-FEB-2011 20:28:55	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	46882	Yes
74	GOM_TRA_1PNPDE20110216_204218_000000473099_00316_46882_2382.N1	16-FEB-2011 20:42:18	Straylight	47.000	48	30Alp Hya	1.9770	4100.0	94	46882	No
75	GOM_TRA_1PNPDE20110216_204930_000000483099_00316_46882_2383.N1	16-FEB-2011 20:49:30	Bright	48.000	22	32Alp Leo	1.3600	15200.	96	46882	No
76	GOM_TRA_1PNPDE20110216_205248_000000473099_00316_46882_2384.N1	16-FEB-2011 20:52:48	Bright	47.000	166	17Eps Leo	2.9800	6000.0	94	46882	No
77	GOM_TRA_1PNPDE20110216_210431_000000453099_00316_46882_2385.N1	16-FEB-2011 21:04:31	Bright	44.500	82	48Bet UMa	2.3650	10600.	89	46882	No
78	GOM_TRA_1PNPDE20110216_211219_000000393099_00316_46882_2386.N1	16-FEB-2011 21:12:19	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	46882	No
79	GOM_TRA_1PNPDE20110216_211709_000000443099_00316_46882_2387.N1	16-FEB-2011 21:17:09	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	46882	No
80	GOM_TRA_1PNPDE20110216_212059_000000433099_00316_46882_2388.N1	16-FEB-2011 21:20:59	Bright	42.500	130	23Bet Dra	2.7990	5800.0	85	46882	No
81	GOM_TRA_1PNPDE20110216_212519_000000373099_00316_46882_2389.N1	16-FEB-2011 21:25:19	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	46882	No
82	GOM_TRA_1PNPDE20110216_213432_000000503099_00316_46882_2390.N1	16-FEB-2011 21:34:32	Bright	50.000	59	55Alp Oph	2.0800	8900.0	100	46882	No
83	GOM_TRA_1PNPDE20110216_213649_000000513099_00316_46882_2391.N1	16-FEB-2011 21:36:49	Tw_i_and_stray	50.500	126	60Bet Oph	2.7700	4250.0	101	46882	No
84	GOM_TRA_1PNPDE20110216_232432_000000533099_00317_46883_2408.N1	16-FEB-2011 23:24:32	Dark	53.000	86	35Eta Oph	2.4300	10200.	106	46883	No
85	GOM_TRA_1PNPDE20110216_232941_000000733099_00317_46883_2409.N1	16-FEB-2011 23:29:41	Dark	73.000	16	21Alp Sco	1.0200	3000.0	146	46883	No
86	GOM_TRA_1PNPDE20110216_233535_000000483099_00318_46884_2410.N1	16-FEB-2011 23:35:35	Dark	47.500	131	Gam Lup	2.8000	26000.	95	46884	No
87	GOM_TRA_1PNPDE20110216_234040_000000453099_00318_46884_2411.N1	16-FEB-2011 23:40:40	Dark	45.000	10	Bet Cen	0.61000	28000.	90	46884	No



88	GOM_TRA_1PNPDE20110216_234205_000000453099_00318_46884_2412.N1	16-FEB-2011 23:42:05	Dark	45.000	77	Eps Cen	2.3030	28000.	90	46884	No
89	GOM_TRA_1PNPDE20110216_234426_000000593099_00318_46884_2413.N1	16-FEB-2011 23:44:26	Dark	59.000	26	Gam Cru	1.6240	2900.0	118	46884	No
90	GOM_TRA_1PNPDE20110216_234628_000000443099_00318_46884_2414.N1	16-FEB-2011 23:46:28	Dark	44.000	99	Del Cen	2.5750	26000.	88	46884	No
91	GOM_TRA_1PNPDE20110216_234923_000000473099_00318_46884_2415.N1	16-FEB-2011 23:49:23	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	46884	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).

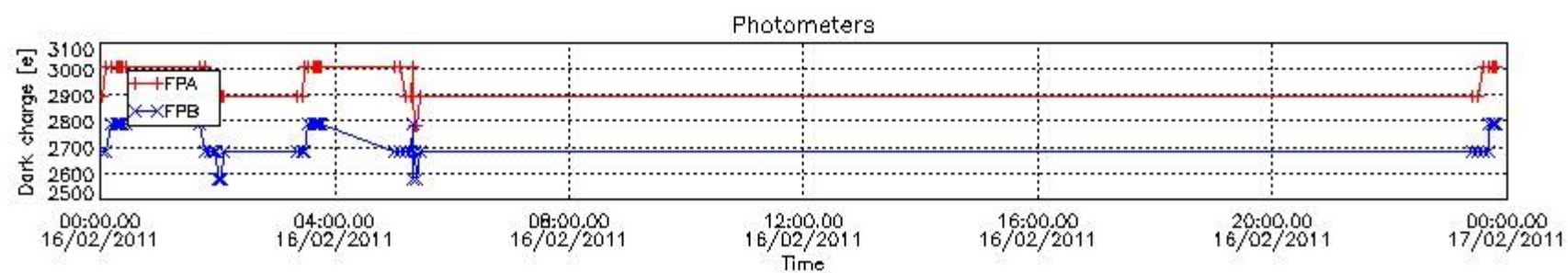
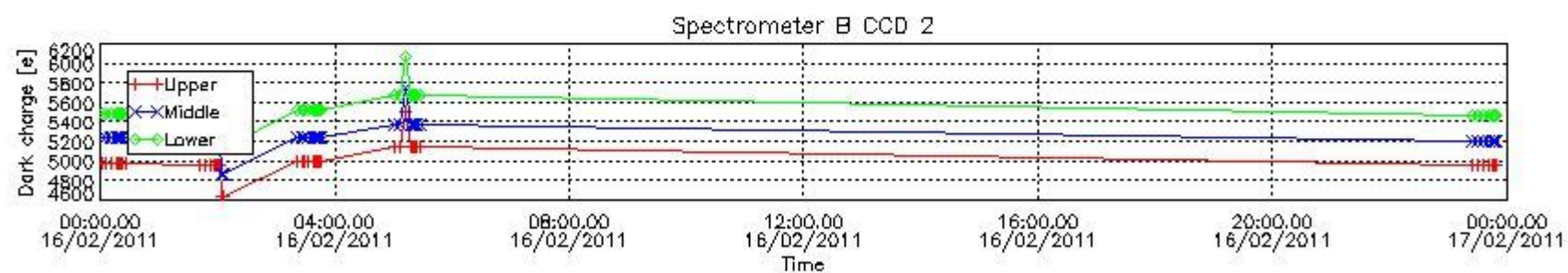
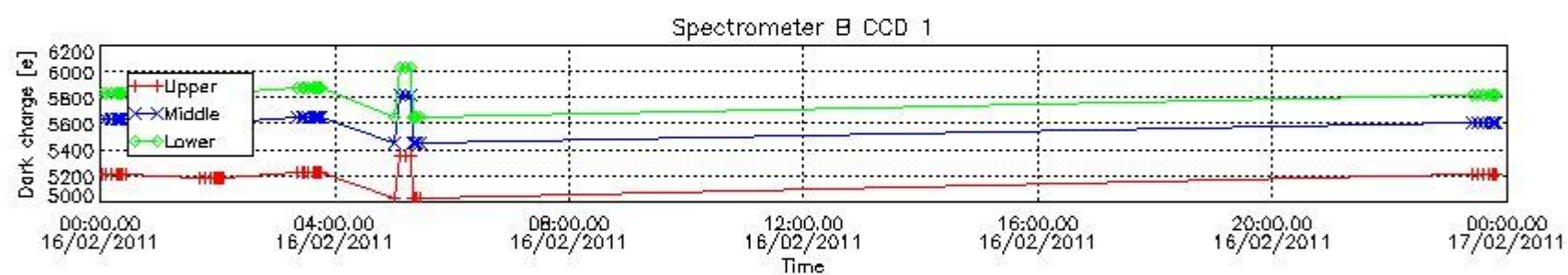
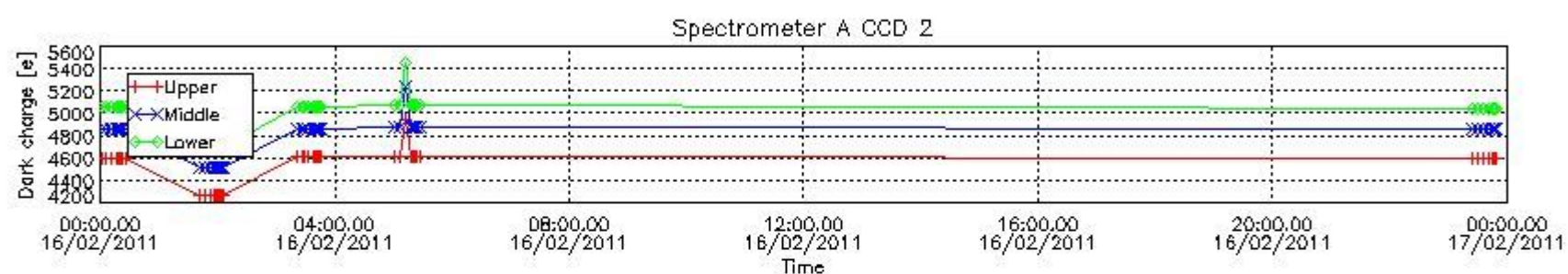
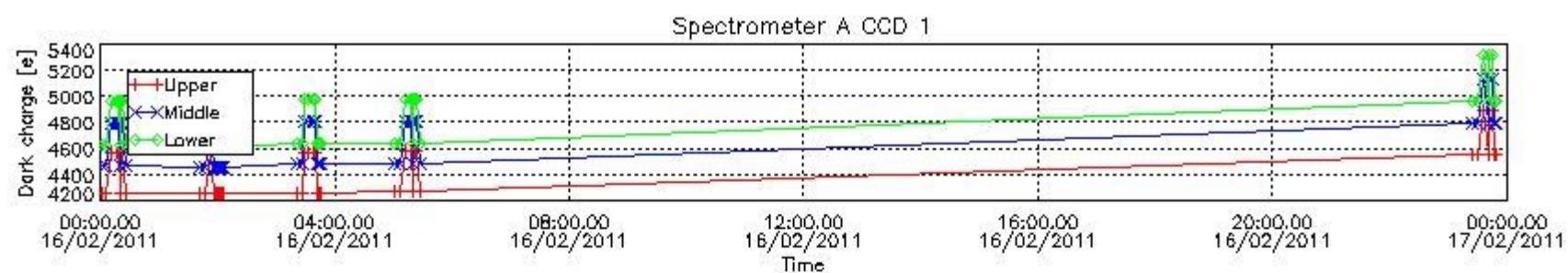
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20110216_202855_000000453099_00316_46882_2381.N1	DC map with no T dep.
GOM_TRA_1PNPDE20110216_204218_000000473099_00316_46882_2382.N1	DC map used
GOM_TRA_1PNPDE20110216_204930_000000483099_00316_46882_2383.N1	DC map used
GOM_TRA_1PNPDE20110216_205248_000000473099_00316_46882_2384.N1	DC map used
GOM_TRA_1PNPDE20110216_210431_000000453099_00316_46882_2385.N1	DC map used
GOM_TRA_1PNPDE20110216_211219_000000393099_00316_46882_2386.N1	DC map used

GOM_TRA_1PNPDE20110216_211709_000000443099_00316_46882_2387.N1	DC map used
GOM_TRA_1PNPDE20110216_212059_000000433099_00316_46882_2388.N1	DC map used
GOM_TRA_1PNPDE20110216_212519_000000373099_00316_46882_2389.N1	DC map used
GOM_TRA_1PNPDE20110216_213432_000000503099_00316_46882_2390.N1	DC map used
GOM_TRA_1PNPDE20110216_213649_000000513099_00316_46882_2391.N1	DC map used

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

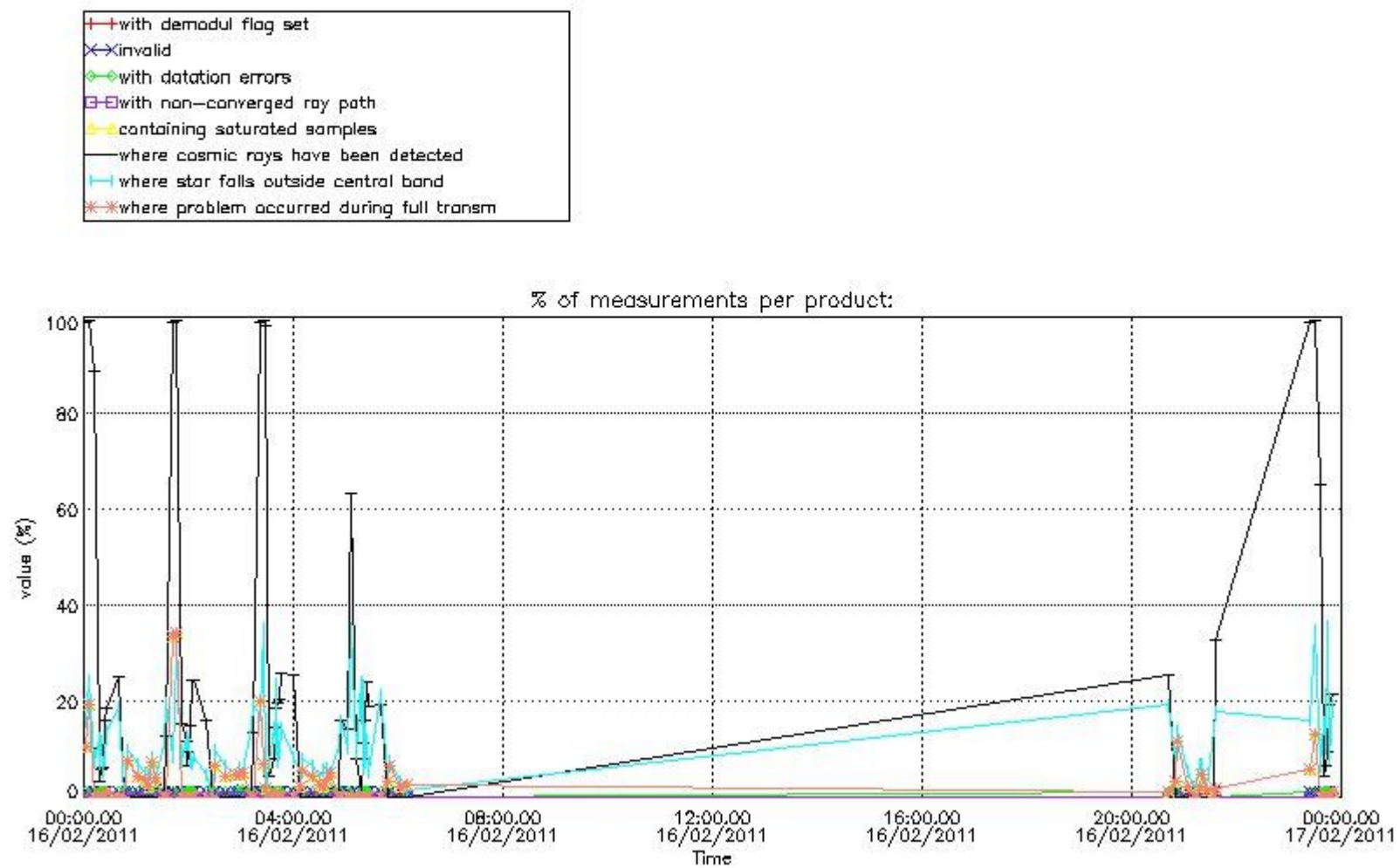


In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

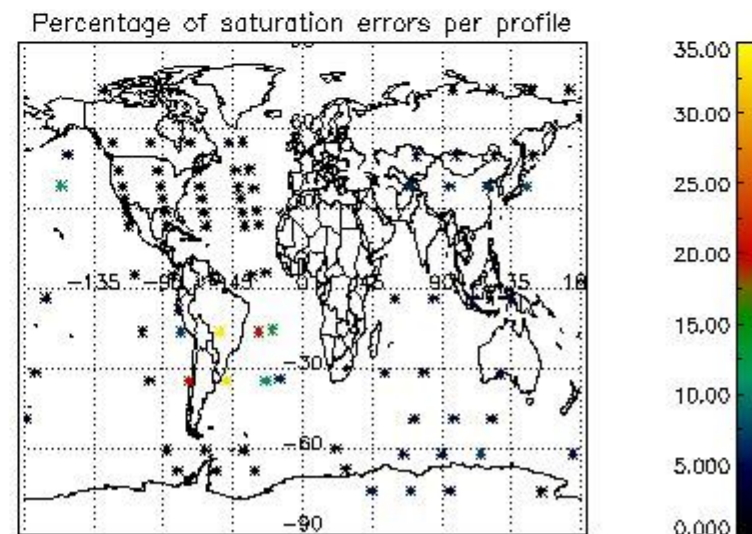
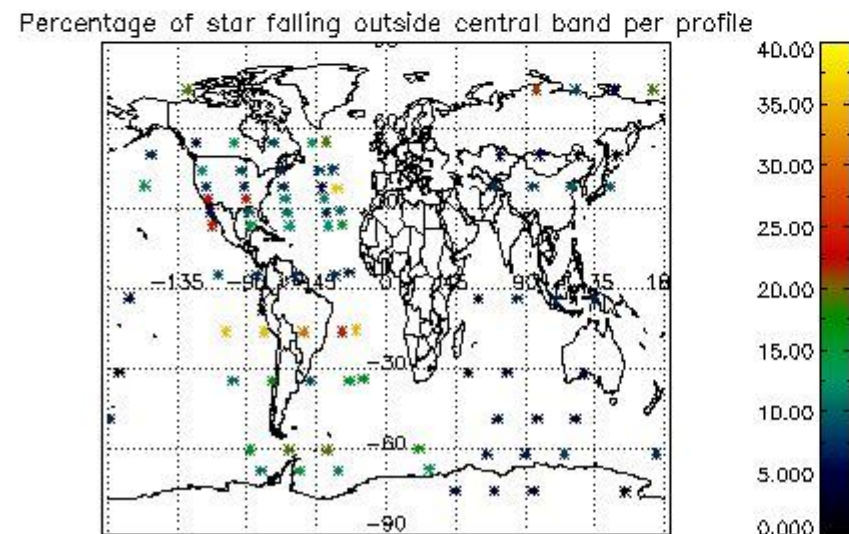
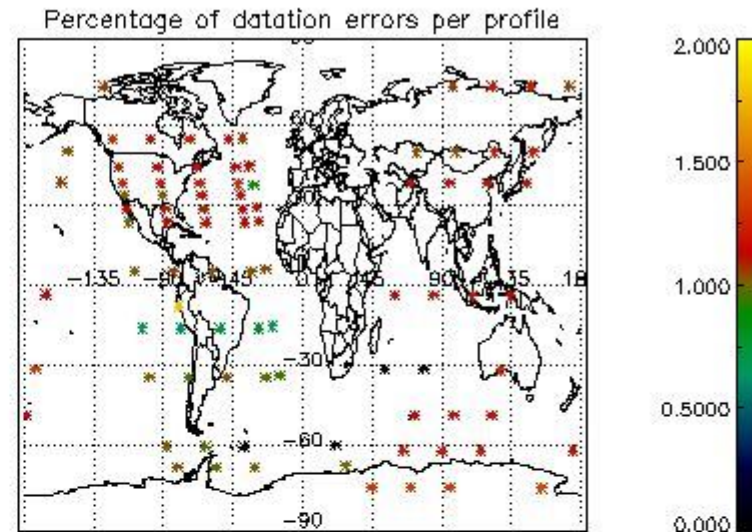
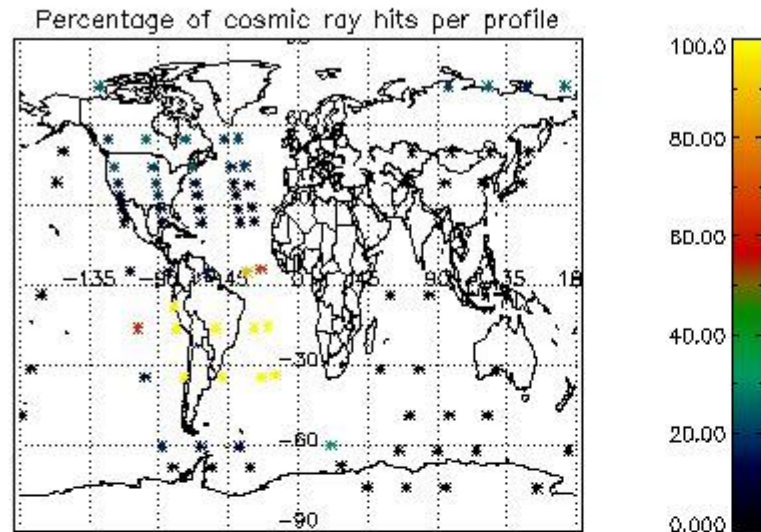
At least one measurement with demodulation flag set:	51.6854 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 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)

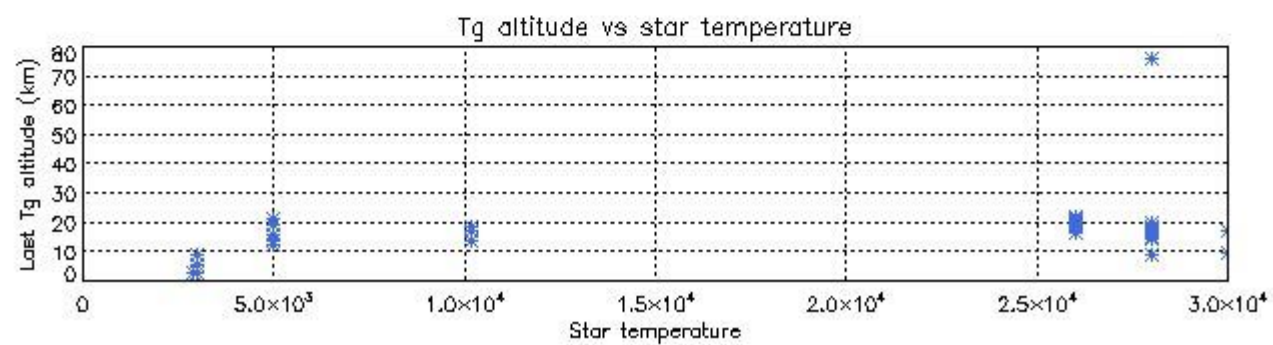
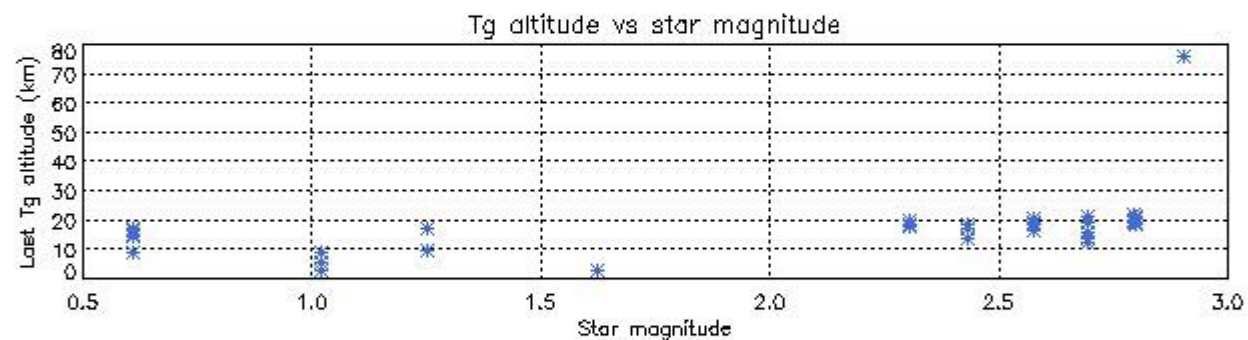
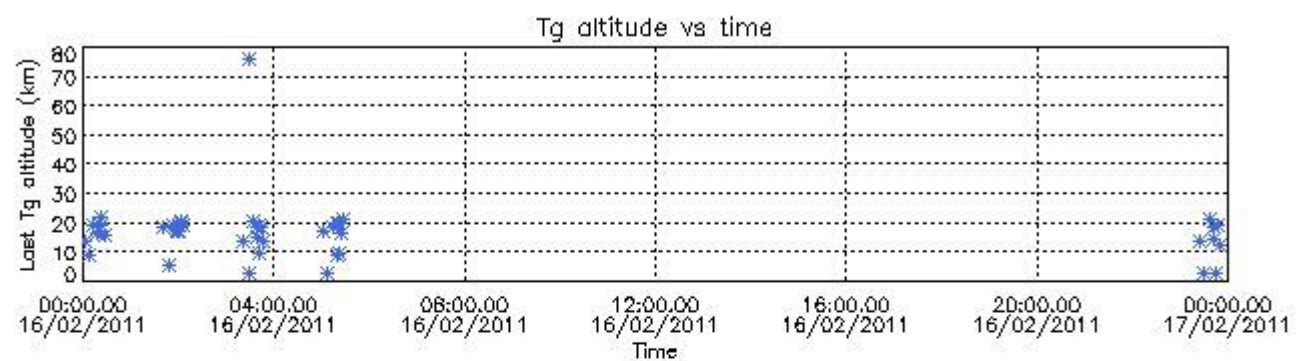
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.762	21.023	NaN
St. deviation:	10.532	4.2289	NaN
Maximum:	76.041	34.709	NaN
Minimum:	2.8484	13.734	NaN
Number of data:	45.000	35.000	NaN

### 6.2 Plot for DARK limb products

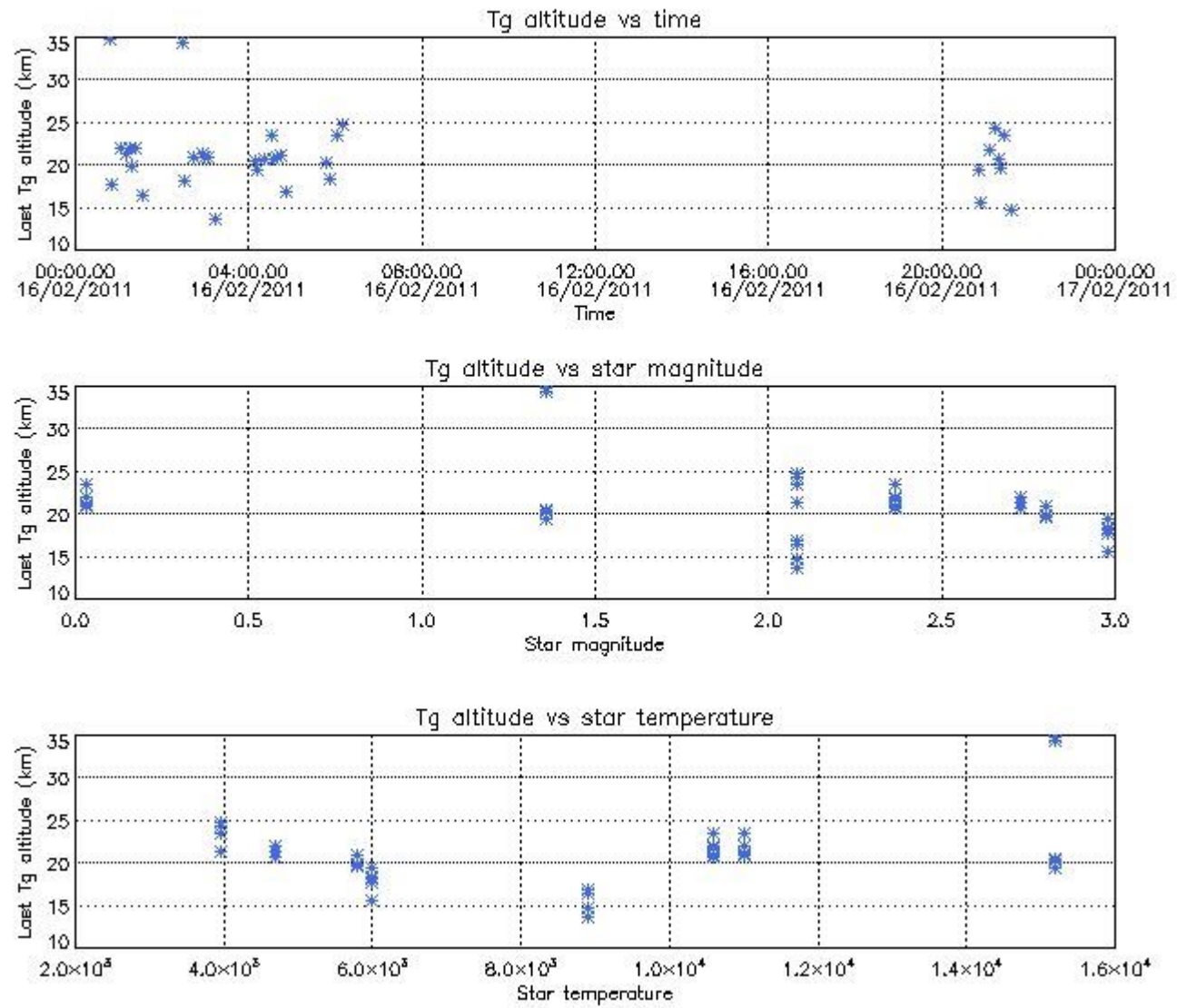


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

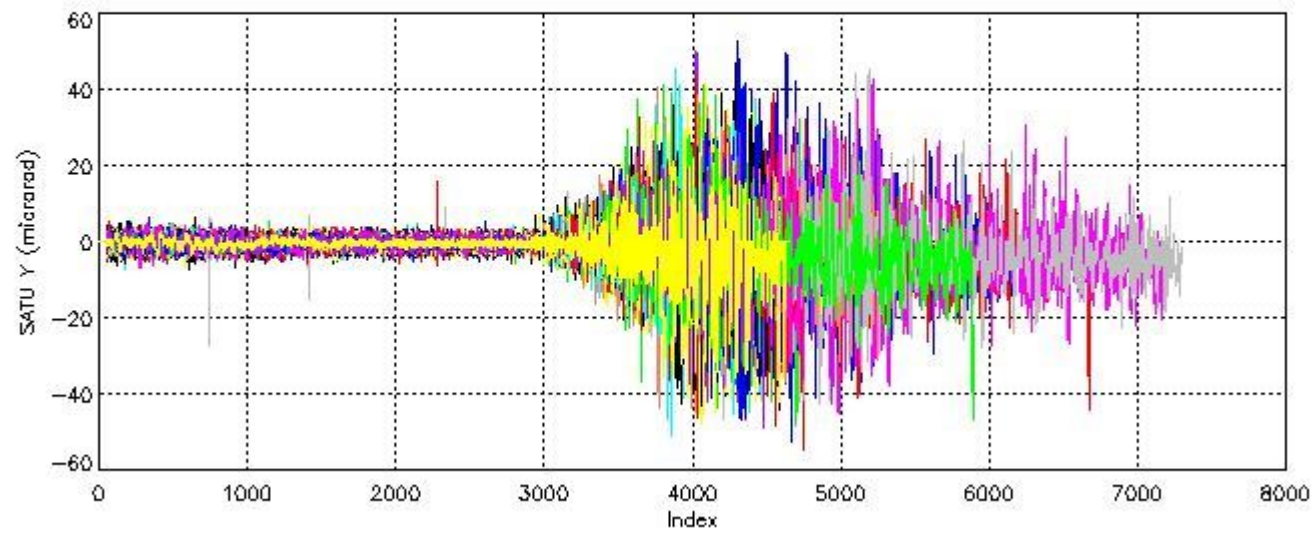
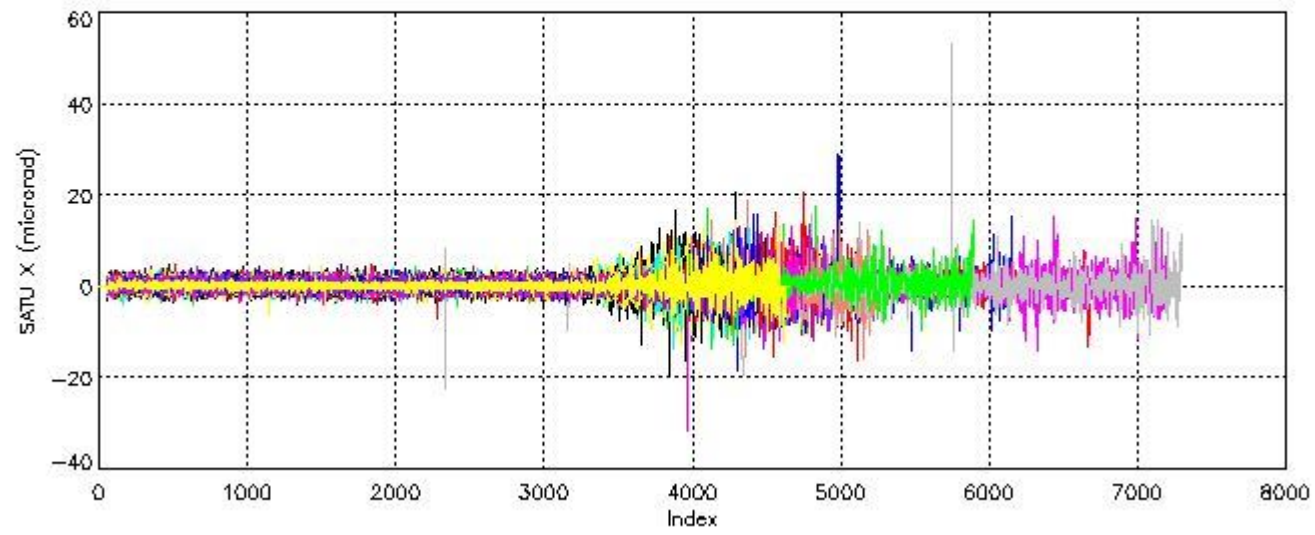


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.21797	-0.37383	0.24144	-0.42307
St. deviation:	0.65406	1.2794	0.63959	1.1427
Maximum:	4.9000	6.5000	4.4000	7.1000
Minimum:	-4.2000	-27.200	-4.4000	-6.5000



Number of data:	48900.	48900.	36000.	36000.
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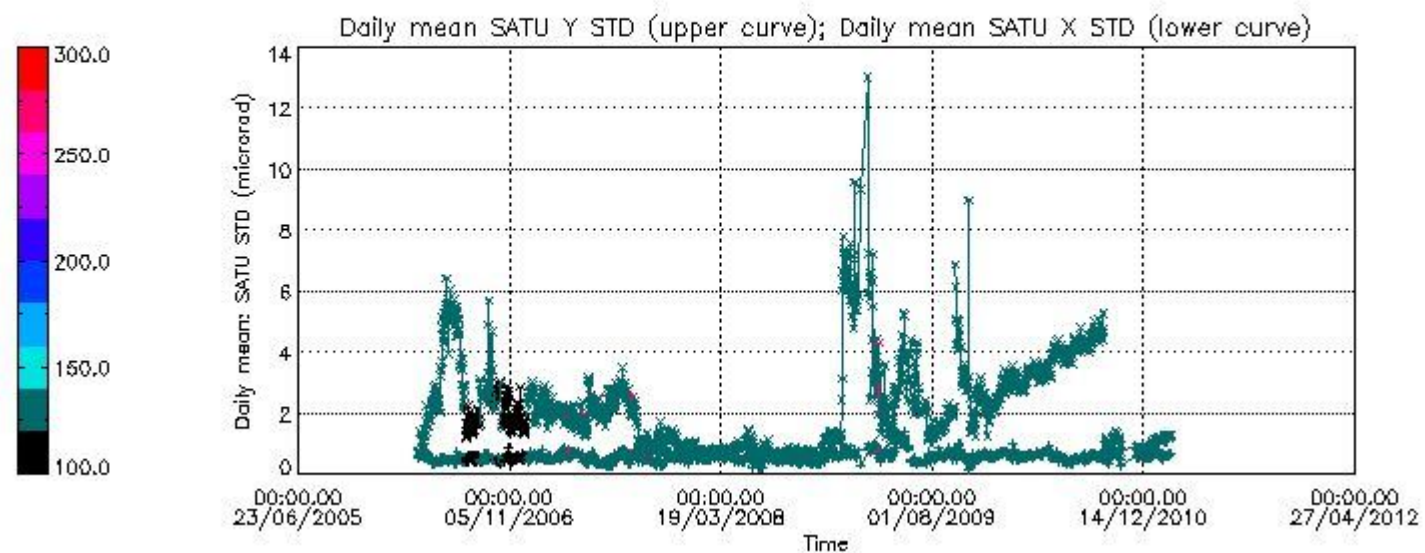
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

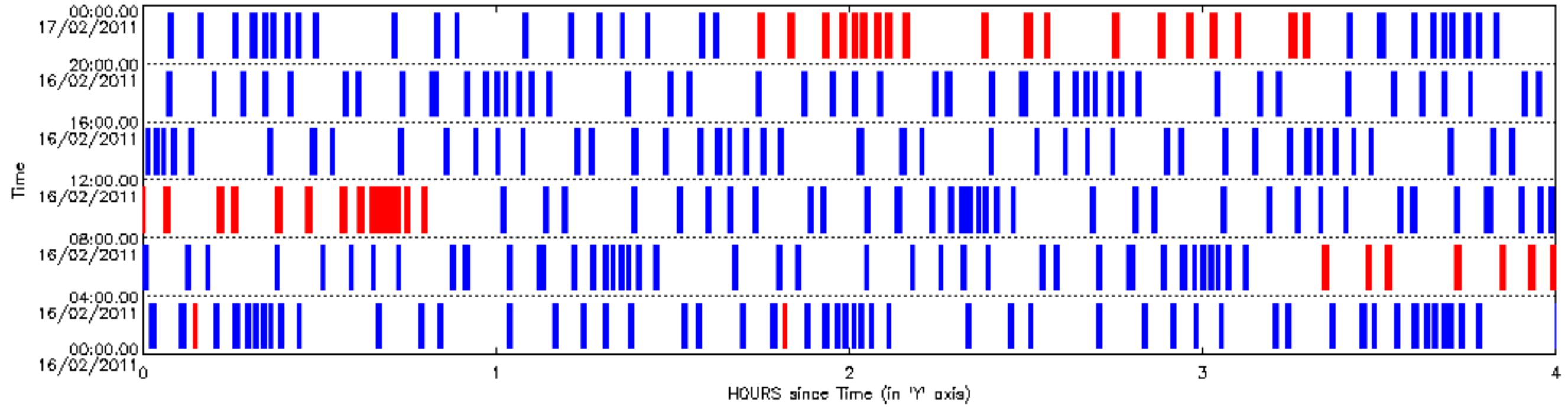
Lower curve: STD of SATU X axis

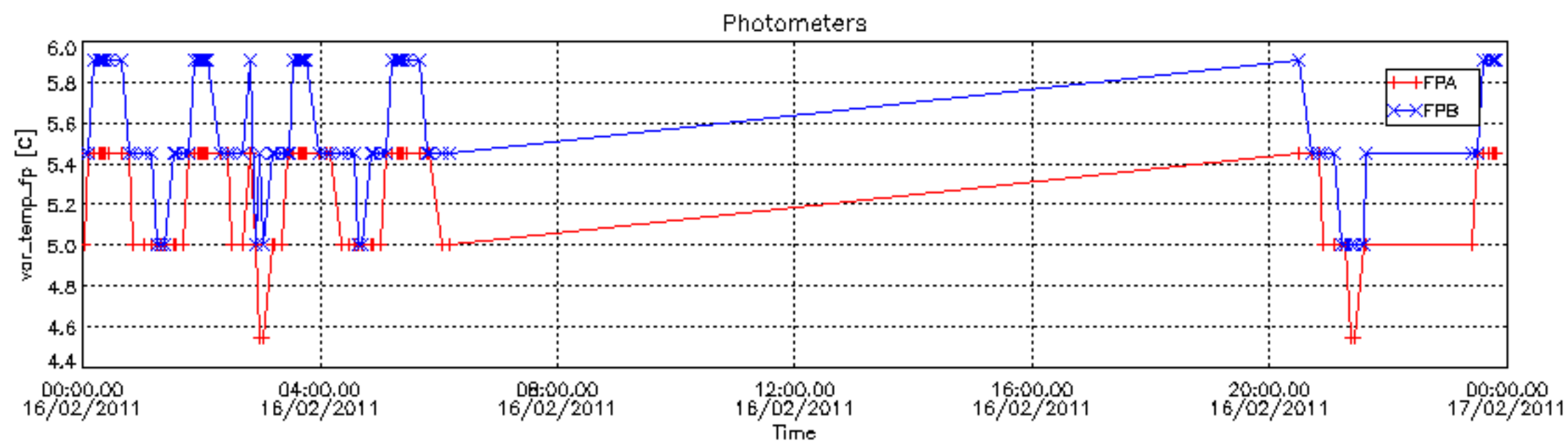
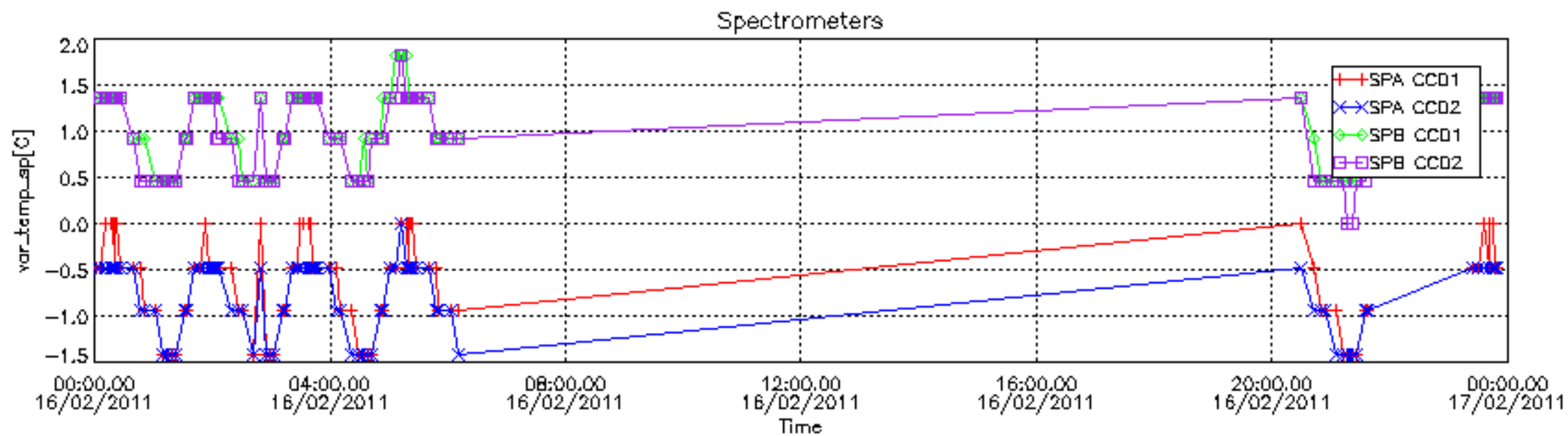


### 8. Auxiliary Data Files used for the production reported in section 2.4

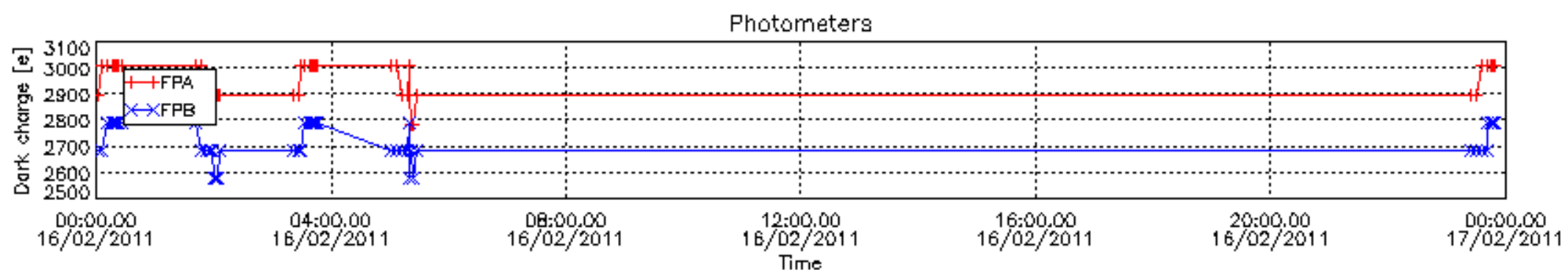
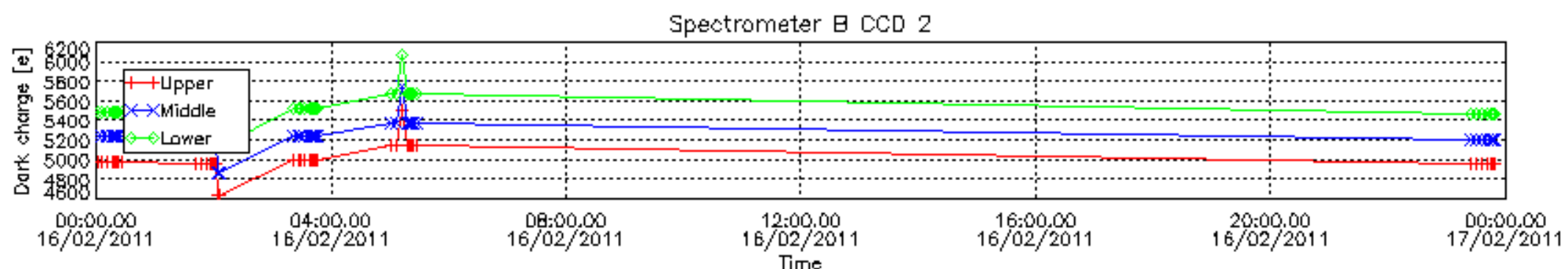
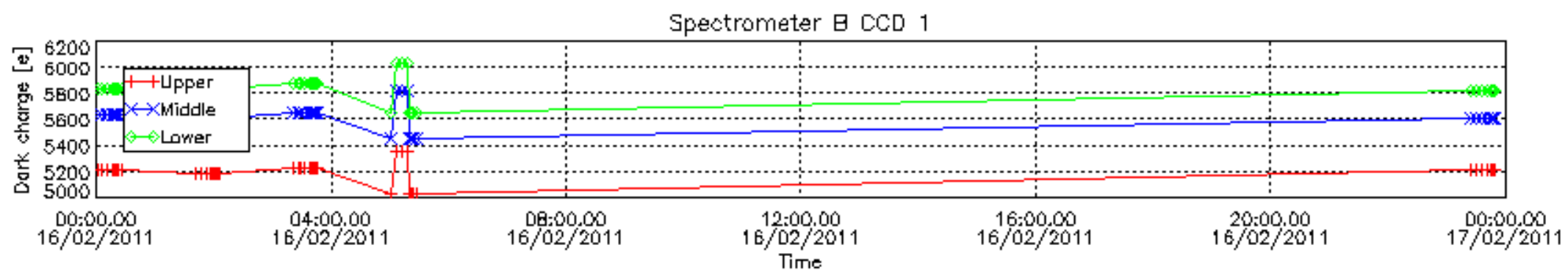
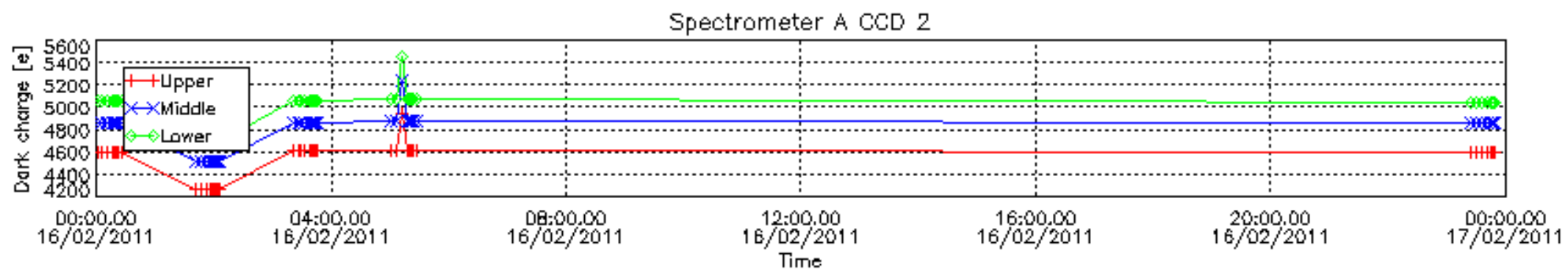
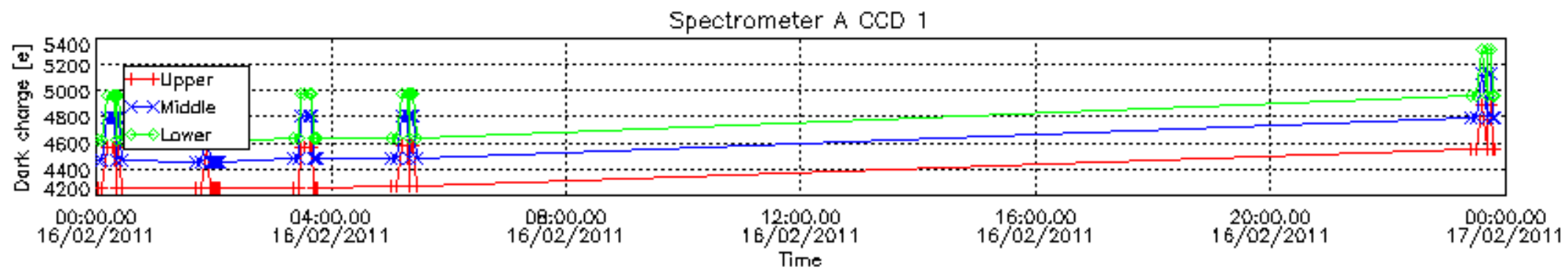
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

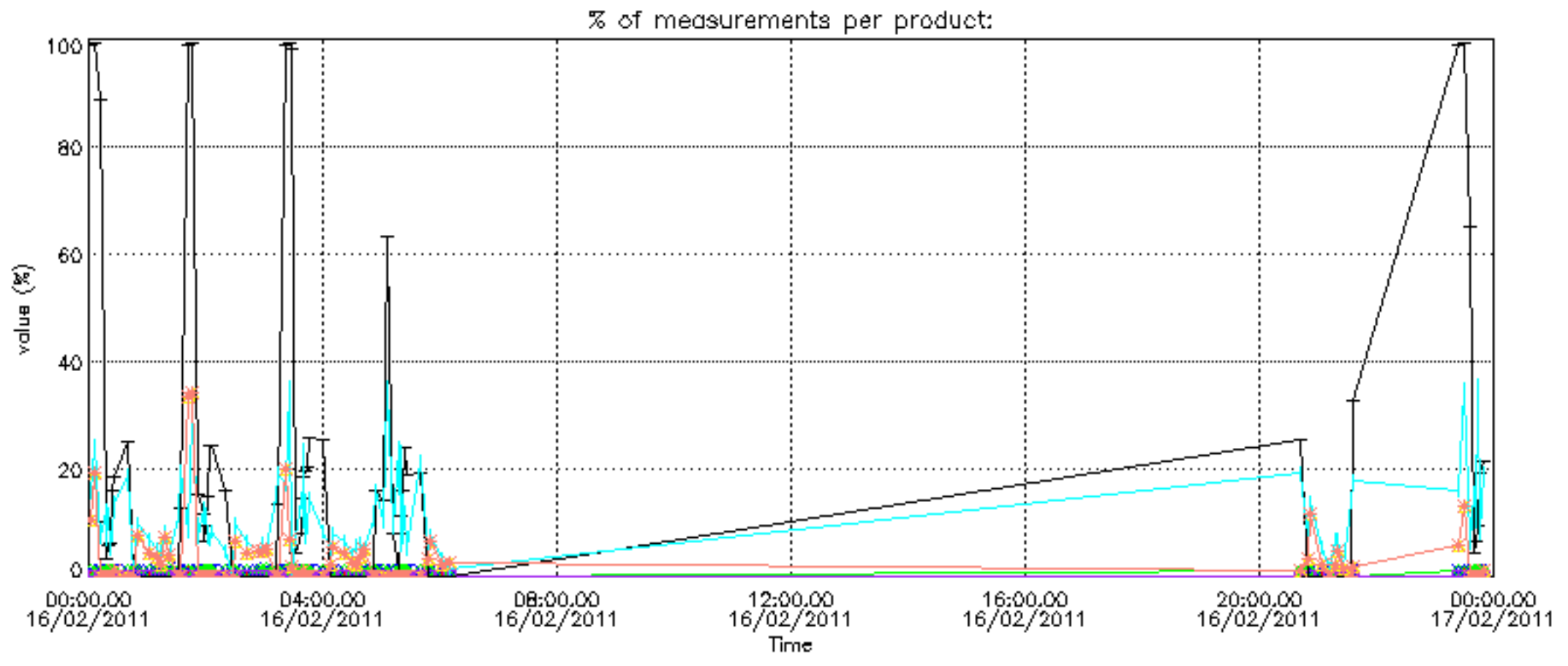
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-FEB-2011 00:01:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110215_120628_20110214_000000_20500101_000000	1	16-FEB-2011 00:01:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	16-FEB-2011 00:01:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-FEB-2011 00:01:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	16-FEB-2011 00:01:04
ECMWF_FILE	AUX_ECF_AXNECM20110215_052115_20110215_210000_20110216_090000	1	16-FEB-2011 00:01:04
ECMWF_FILE	AUX_ECF_AXNECM20110215_172301_20110216_030000_20110216_150000	54	16-FEB-2011 04:34:52
ECMWF_FILE	AUX_ECF_AXNECM20110216_052116_20110216_150000_20110217_030000	73	16-FEB-2011 20:28:55
ECMWF_FILE	AUX_ECF_AXNECM20110216_052116_20110216_210000_20110217_090000	84	16-FEB-2011 23:24:32
OPTIONAL_ECMWF_FILE	MISSING	1	16-FEB-2011 00:01:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110215_235424_000057383099_00303_46869_2535.N1	1	16-FEB-2011 00:01:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110216_013521_000041443099_00304_46870_2536.N1	20	16-FEB-2011 01:41:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110216_024944_000057383099_00305_46871_2537.N1	33	16-FEB-2011 02:49:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110216_043041_000057383099_00306_46872_2538.N1	54	16-FEB-2011 04:34:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110216_202703_000038253099_00316_46882_2539.N1	73	16-FEB-2011 20:28:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110216_232223_000057383099_00317_46883_2540.N1	84	16-FEB-2011 23:24:32



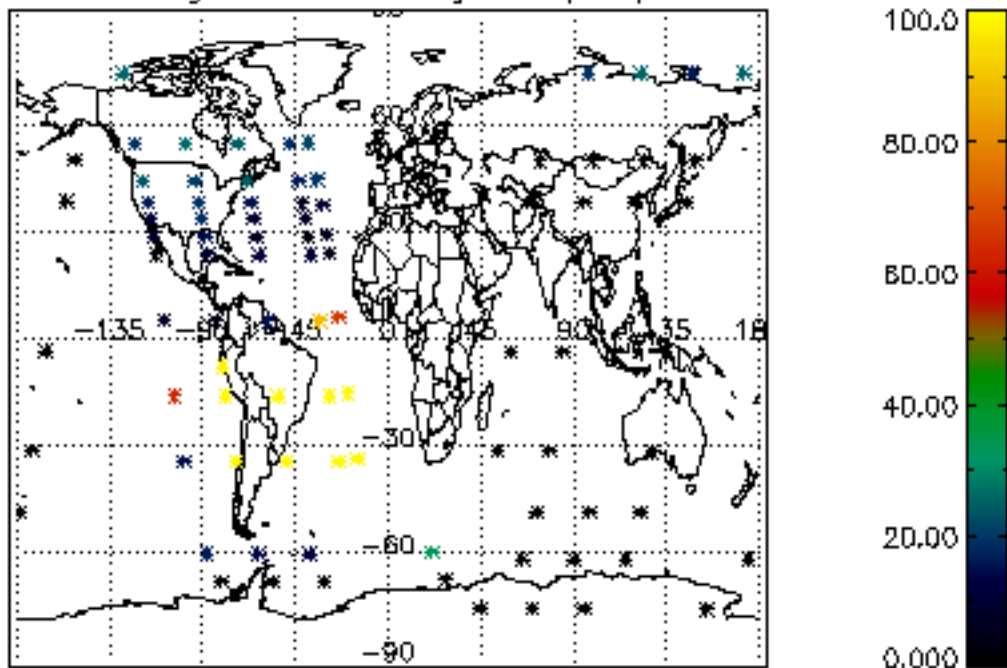




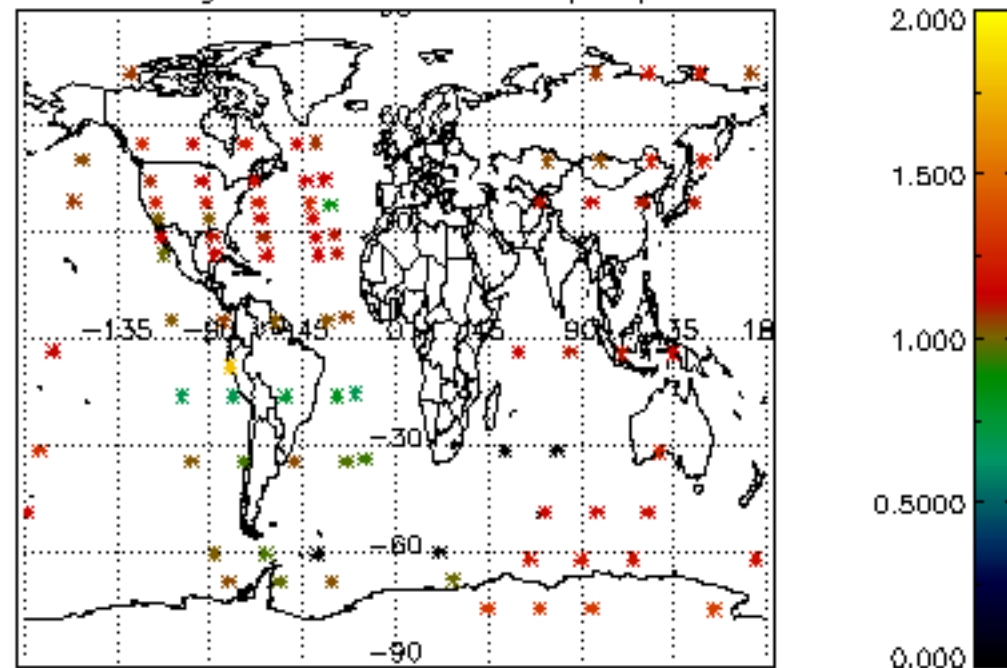




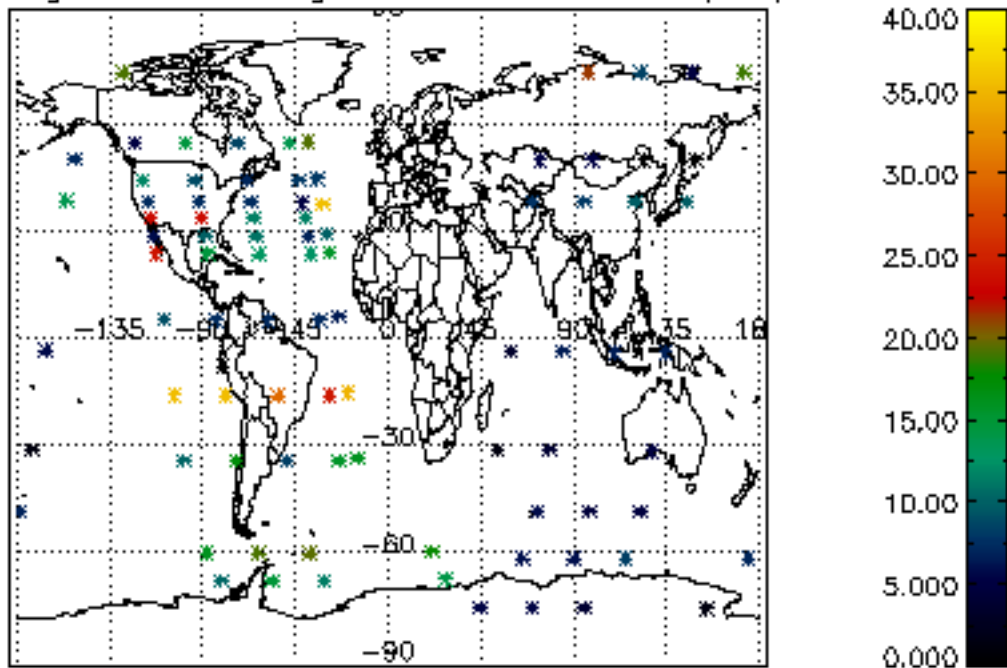
Percentage of cosmic ray hits per profile



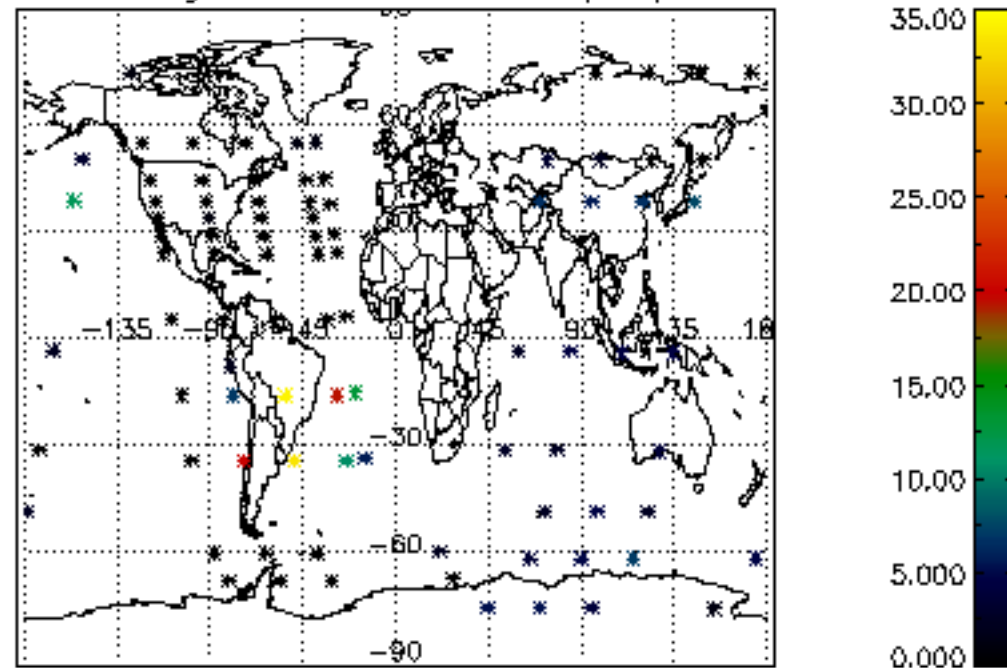
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

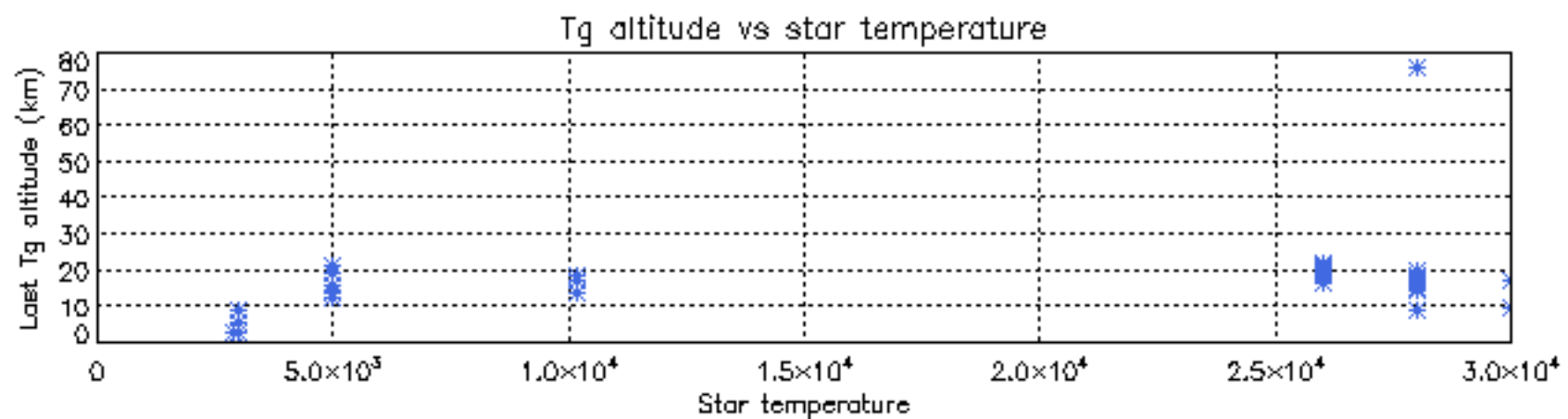
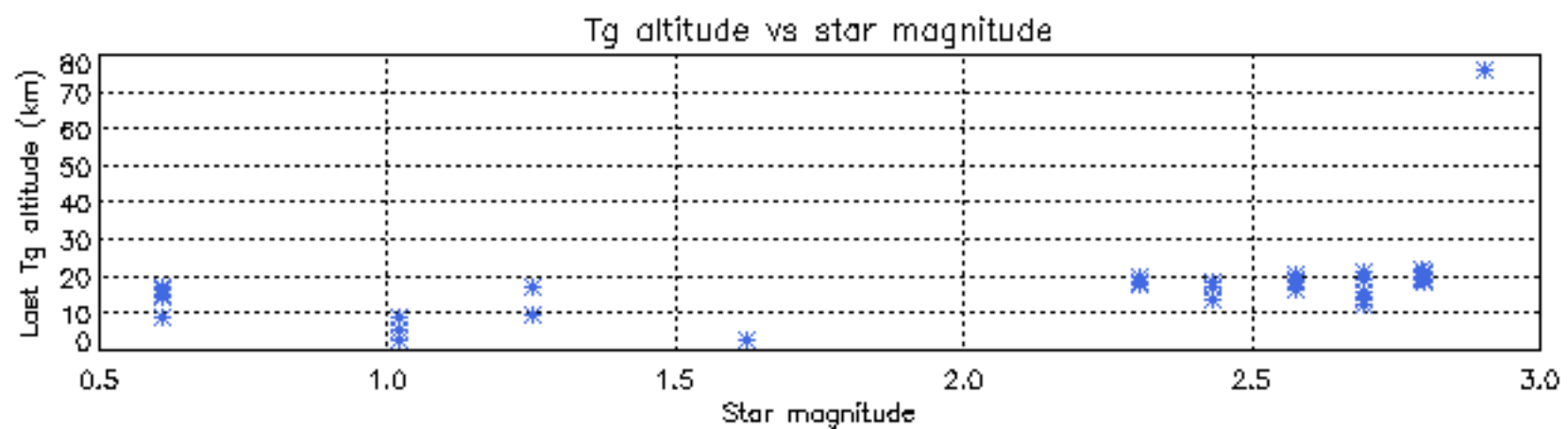
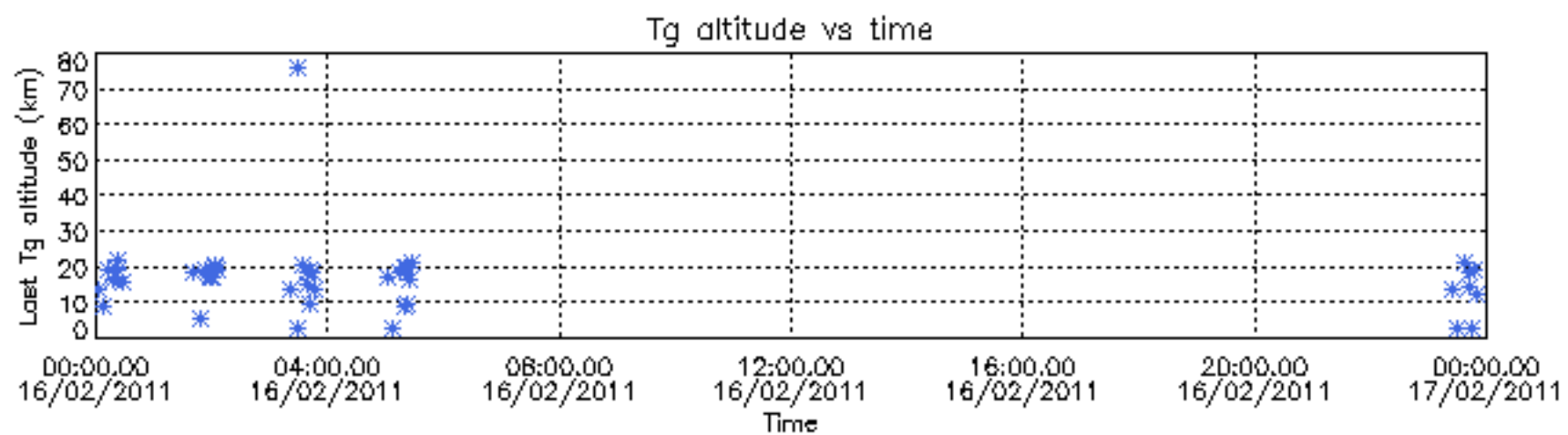


Percentage of saturation errors per profile

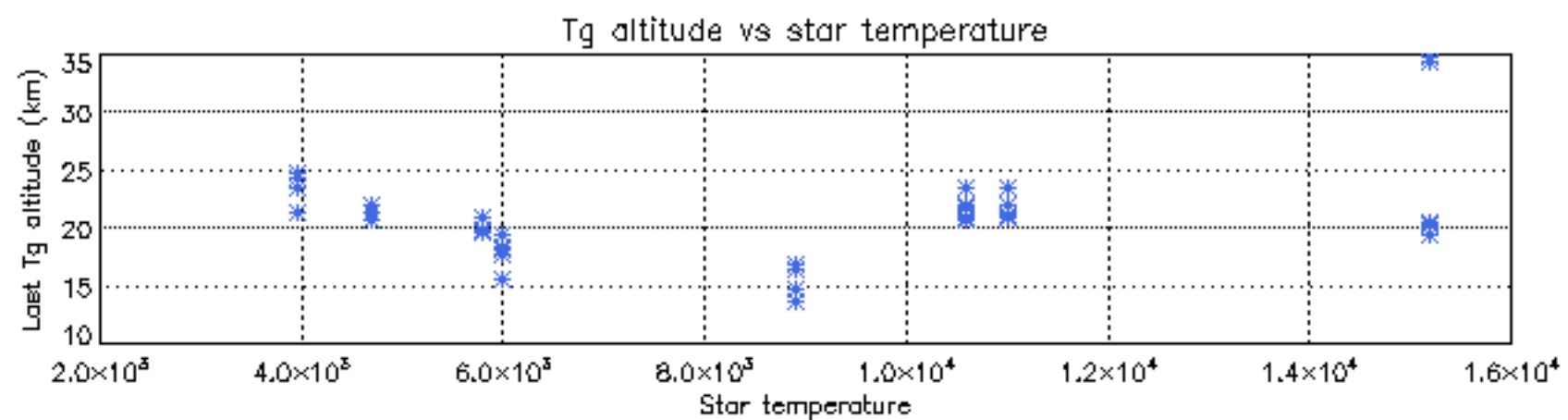
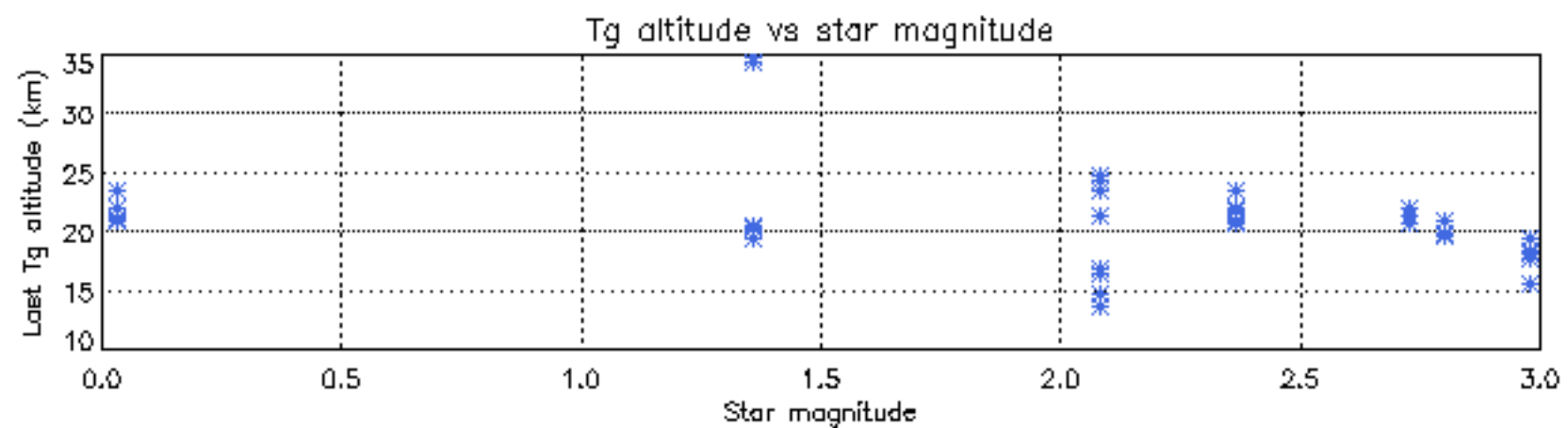
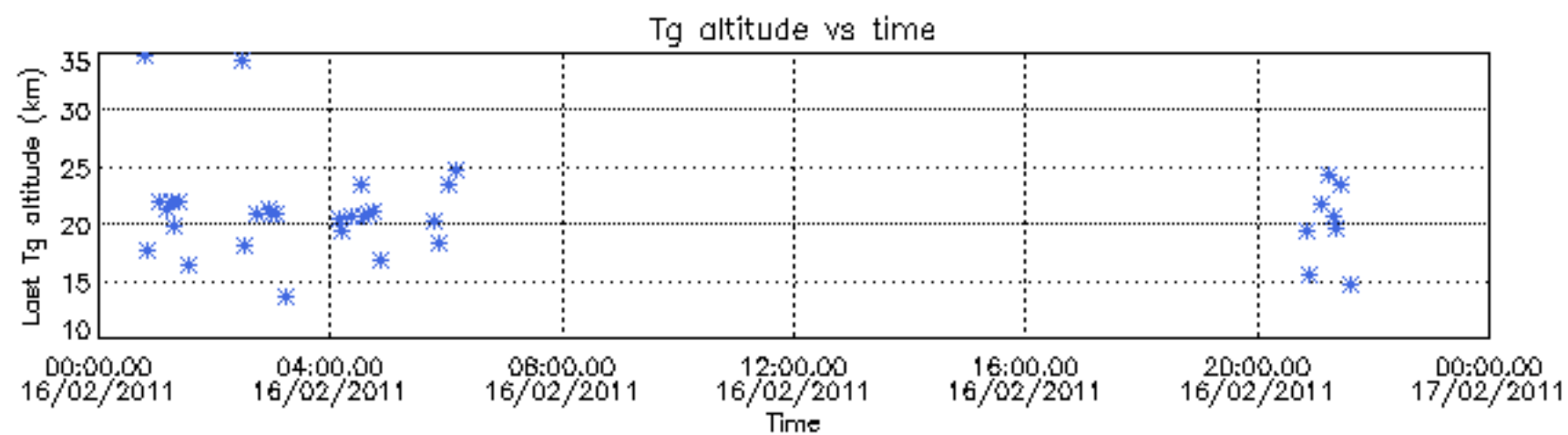


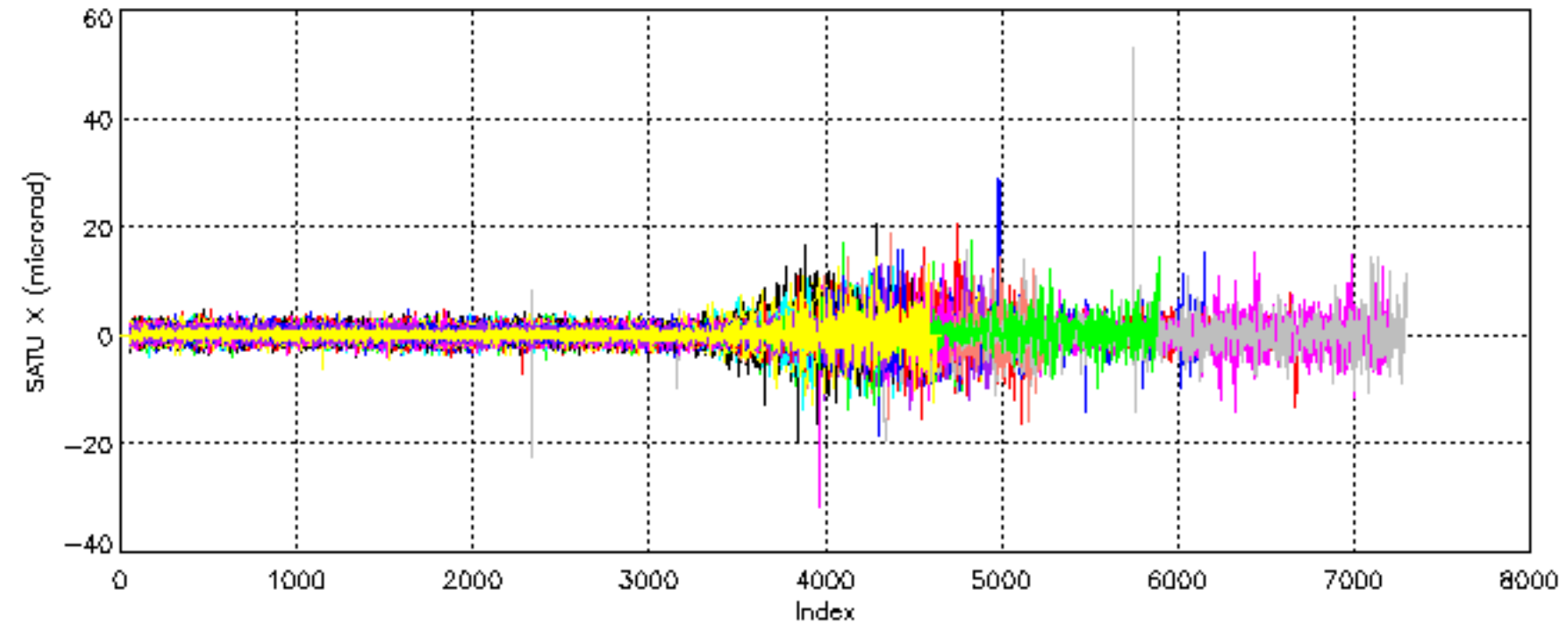


Tangent altitude at which the star is lost

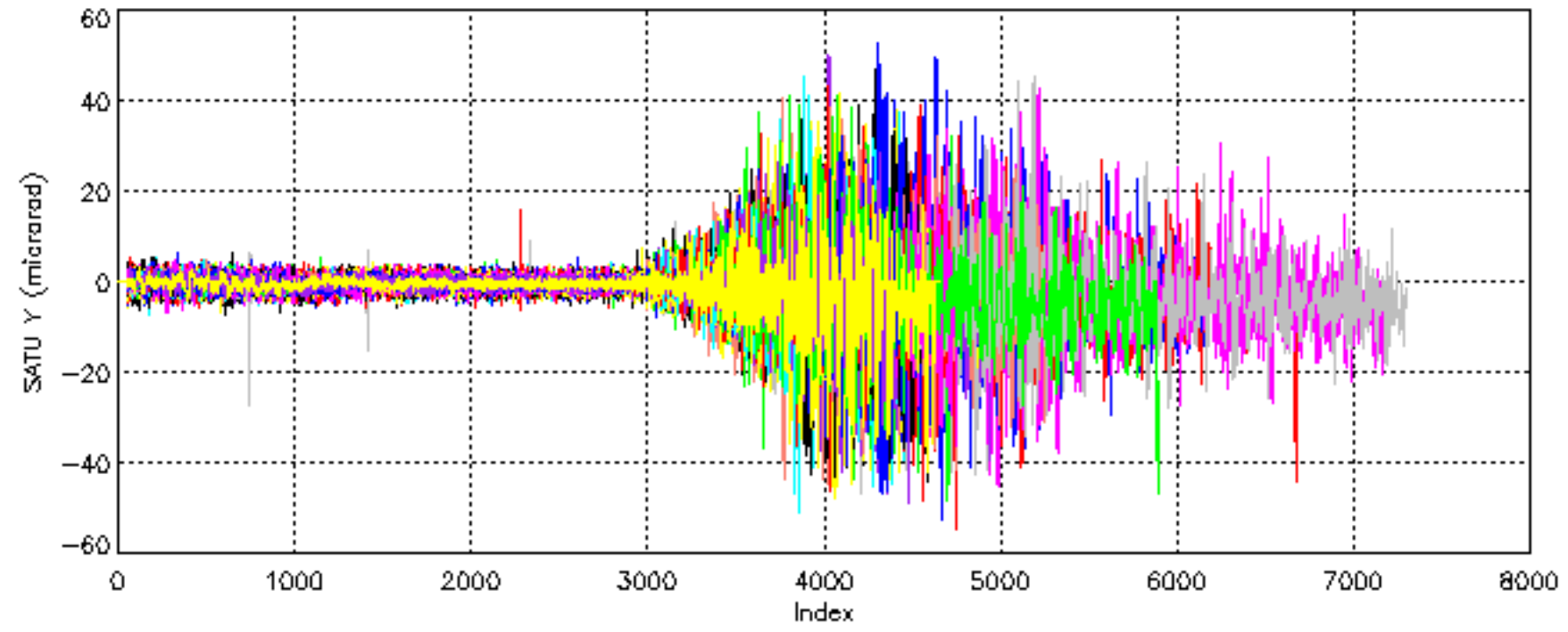


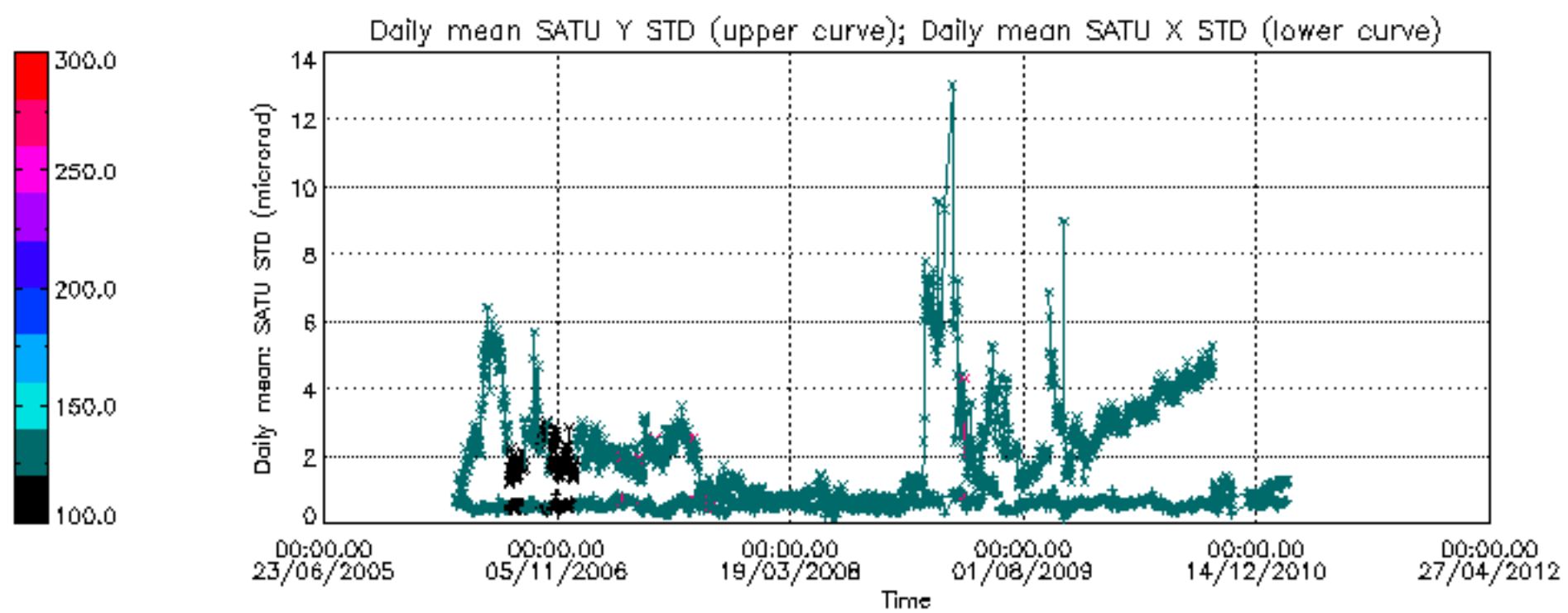
Tangent altitude at which the star is lost











/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  
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4; 3249.0; 02-FEB-2011 16:20:01; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;46678
5; 3587.9; 02-FEB-2011 16:25:40; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;46678
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13; 5655.5; 02-FEB-2011 17:00:07; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;46678
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9; 4691.1; 02-FEB-2011 18:24:17; Bright; 69.0; 127; 27Bet Her ; 2.78; 4700;occ; 138; 0;46679  
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8; 487.7; 03-FEB-2011 21:38:12; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;46696
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15; 3583.0; 03-FEB-2011 22:29:47; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46696
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19; 4697.2; 03-FEB-2011 22:48:21; Bright; 70.0; 127; 27Bet Her ; 2.78; 4700;occ; 140; 0;46696
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13; 483.7; 03-FEB-2011 08:16:16; Dark ; 47.0; 12; Alp1Cru ; 0.77; 30000;occ; 94; 0;46688
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3; 3242.2; 03-FEB-2011 09:02:14; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0;46688
4; 3585.1; 03-FEB-2011 09:07:57; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;46688
5; 3869.6; 03-FEB-2011 09:12:42; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;46688
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
8; 4694.2; 03-FEB-2011 09:26:26; Bright; 49.5; 127; 27Bet Her ; 2.78; 4700;occ; 99; 0;46688
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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 13; 5924.2; 03-FEB-2011 09:46:56; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;46688  
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 17; 6498.1; 03-FEB-2011 09:56:30; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;46689  
 18; 6654.2; 03-FEB-2011 09:59:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46689  
 19; 6842.6; 03-FEB-2011 10:02:15; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;46689  
 20; 7097.9; 03-FEB-2011 10:06:30; Dark ; 51.0; 65; Lam Vel ; 2.20; 4400;occ; 102; 0;46689  
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 3; 3241.6; 03-FEB-2011 10:42:28; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;46689  
 4; 3584.9; 03-FEB-2011 10:48:11; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;46689  
 5; 3869.2; 03-FEB-2011 10:52:55; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;46689  
 6; 4065.8; 03-FEB-2011 10:56:12; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;46689  
 7; 4470.0; 03-FEB-2011 11:02:56; Bright; 44.5; 133; 40Zet Her ; 2.81; 6000;occ; 89; 0;46689  
 8; 4694.6; 03-FEB-2011 11:06:41; Bright; 69.0; 127; 27Bet Her ; 2.78; 4700;occ; 138; 0;46689  
 9; 4915.1; 03-FEB-2011 11:10:21; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;46689  
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 11; 5574.9; 03-FEB-2011 11:21:21; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;46689  
 12; 5665.8; 03-FEB-2011 11:22:52; Dark ; 48.0; 158; 6Pi Sco ; 2.91; 28000;occ; 96; 0;46689  
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 17; 6498.5; 03-FEB-2011 11:36:44; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;46690  
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 19; 6843.2; 03-FEB-2011 11:42:29; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;46690  
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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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 17; 6499.1; 03-FEB-2011 13:16:59; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;46691  
 18; 6655.8; 03-FEB-2011 13:19:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46691  
 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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 3; -70.2; 05-FEB-2011 00:12:38; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;46711  
 4; 150.5; 05-FEB-2011 00:16:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46712  
 5; 297.2; 05-FEB-2011 00:18:45; Dark ; 40.0; 10; Bet Cen ; 0.61; 28000;occ; 80; 0;46712  
 6; 496.1; 05-FEB-2011 00:22:04; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;46712  
 7; 630.8; 05-FEB-2011 00:24:19; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;46712  
 8; 841.4; 05-FEB-2011 00:27:50; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;46712  
 9; 1091.6; 05-FEB-2011 00:32:00; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;46712  
 10; 1727.7; 05-FEB-2011 00:42:36; Dark ; 54.5; 48; 30Alp Hya ; 1.98; 4100;occ; 109; 0;46712  
 11; 2373.1; 05-FEB-2011 00:53:21; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;46712  
 12; 3226.6; 05-FEB-2011 01:07:35; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;46712  
 13; 3578.8; 05-FEB-2011 01:13:27; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;46712  
 14; 3864.6; 05-FEB-2011 01:18:13; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;46712  
 15; 4064.9; 05-FEB-2011 01:21:33; Bright; 56.0; 130; 23Bet Dra ; 2.80; 5800;occ; 112; 0;46712  
 16; 4473.2; 05-FEB-2011 01:28:21; Bright; 46.0; 133; 40Zet Her ; 2.81; 6000;occ; 92; 0;46712  
 17; 4703.2; 05-FEB-2011 01:32:11; Bright; 49.5; 127; 27Bet Her ; 2.78; 4700;occ; 99; 0;46712  
 18; 4923.2; 05-FEB-2011 01:35:51; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;46712

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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  
 5; -1310.4; 05-FEB-2011 03:12:26; Bright; 50.5; 127; 27Bet Her ; 2.78; 4700;occ; 101; 0;46713  
 6; -1090.5; 05-FEB-2011 03:16:06; Bright; 56.0; 126; 60Bet Oph ; 2.77; 4250;occ; 112; 0;46713  
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 9; -324.2; 05-FEB-2011 03:28:52; Dark ; 48.0; 158; 6Pi Sco ; 2.91; 28000;occ; 96; 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  
 14; 632.8; 05-FEB-2011 03:44:49; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;46714  
 15; 842.7; 05-FEB-2011 03:48:19; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;46714



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16; 1092.3; 05-FEB-2011 03:52:28; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;46714
17; 1727.7; 05-FEB-2011 04:03:04; Dark ; 55.5; 48; 30Alp Hya ; 1.98; 4100;occ; 111; 0;46714
18; 2373.1; 05-FEB-2011 04:13:49; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;46714
19; 3225.5; 05-FEB-2011 04:28:02; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0;46714
20; 3578.6; 05-FEB-2011 04:33:55; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;46714
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 2; -1949.0; 05-FEB-2011 04:42:01; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;46714
 3; -1540.3; 05-FEB-2011 04:48:50; Bright; 66.0; 133; 40Zet Her ; 2.81; 6000;occ; 132; 0;46714
 4; -1310.1; 05-FEB-2011 04:52:40; Bright; 72.0; 127; 27Bet Her ; 2.78; 4700;occ; 144; 0;46714
 5; -1090.1; 05-FEB-2011 04:56:20; Bright; 56.0; 126; 60Bet Oph ; 2.77; 4250;occ; 112; 0;46714
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 9; -67.3; 05-FEB-2011 05:13:23; Dark ; 44.0; 131; Gam Lup ; 2.80; 26000;occ; 88; 0;46714
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
12; 497.8; 05-FEB-2011 05:22:48; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;46715
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
16; 1727.8; 05-FEB-2011 05:43:18; Dark ; 56.0; 48; 30Alp Hya ; 1.98; 4100;occ; 112; 0;46715
17; 2373.1; 05-FEB-2011 05:54:03; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;46715
18; 3224.8; 05-FEB-2011 06:08:15; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;46715
19; 3578.1; 05-FEB-2011 06:14:08; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;46715
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 3; 2372.5; 05-FEB-2011 20:56:09; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;46724
 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
 8; 4475.0; 05-FEB-2011 21:31:11; Bright; 67.0; 133; 40Zet Her ; 2.81; 6000;occ; 134; 0;46724
 9; 4707.7; 05-FEB-2011 21:35:04; Bright; 52.5; 127; 27Bet Her ; 2.78; 4700;occ; 105; 0;46724
10; 4927.7; 05-FEB-2011 21:38:44; Bright; 56.5; 126; 60Bet Oph ; 2.77; 4250;occ; 113; 0;46724
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 2; -411.2; 05-FEB-2011 21:49:59; Dark ; 58.0; 16; 21Alp Sco ; 1.02; 3000;occ; 116; 0;46724
 3; -312.8; 05-FEB-2011 21:51:38; Dark ; 49.5; 158; 6Pi Sco ; 2.91; 28000;occ; 99; 0;46724
 4; 160.0; 05-FEB-2011 21:59:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46725
 5; 305.3; 05-FEB-2011 22:01:56; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;46725
 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
10; 1727.3; 05-FEB-2011 22:25:38; Dark ; 53.0; 48; 30Alp Hya ; 1.98; 4100;occ; 106; 0;46725
11; 2372.4; 05-FEB-2011 22:36:23; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;46725
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
19; 5330.7; 05-FEB-2011 23:25:41; Dark ; 46.0; 86; 35Eta Oph ; 2.43; 10200;occ; 92; 0;46725
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 8; -321.9; 05-FEB-2011 06:49:22; Dark ; 48.5; 158; 6Pi Sco ; 2.91; 28000;occ; 97; 0;46715
 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
11; 299.8; 05-FEB-2011 06:59:44; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 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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18; 6858.4; 05-FEB-2011 08:49:03; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;46717
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13; 5949.5; 05-FEB-2011 10:14:08; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;46717
14; 6168.9; 05-FEB-2011 10:17:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46718
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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  
 14; 3858.4; 07-FEB-2011 00:04:39; Bright; 51.5; 119; 14Eta Dra ; 2.73; 4700;occ; 103; 0;46740  
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 12; 5723.7; 07-FEB-2011 08:56:54; Dark ; 49.0; 158; 6Pi Sco ; 2.91; 28000;occ; 98; 0;46745  
 13; 5974.6; 07-FEB-2011 09:01:05; Dark ; 45.0; 131; Gam Lup ; 2.80; 26000;occ; 90; 0;46745  
 14; 6189.5; 07-FEB-2011 09:04:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46746  
 15; 6332.2; 07-FEB-2011 09:07:03; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;46746  
 16; 6528.2; 07-FEB-2011 09:10:19; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;46746  
 17; 6670.5; 07-FEB-2011 09:12:41; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;46746  
 18; 6873.9; 07-FEB-2011 09:16:04; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;46746  
 19; 7740.9; 07-FEB-2011 09:30:31; Dark ; 57.5; 48; 30Alp Hya ; 1.98; 4100;occ; 115; 0;46746

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 2; 2371.6; 07-FEB-2011 09:41:16; Bright; 52.5; 17; 78Bet Gem ; 1.16; 4500;occ; 105; 0;46746  
 3; 3158.8; 07-FEB-2011 09:54:23; Bright; 30.0; 82; 48Bet UMa ; 2.37; 10600;occ; 60; 0;46746  
 4; 3569.6; 07-FEB-2011 10:01:14; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;46746  
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 6; 4063.3; 07-FEB-2011 10:09:28; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;46746  
 7; 4478.1; 07-FEB-2011 10:16:23; Bright; 68.0; 133; 40Zet Her ; 2.81; 6000;occ; 136; 0;46746  
 8; 4805.3; 07-FEB-2011 10:21:50; Bright; 41.0; 59; 55Alp Oph ; 2.08; 8900;occ; 82; 0;46746  
 9; 4936.2; 07-FEB-2011 10:24:01; Bright; 57.0; 126; 60Bet Oph ; 2.77; 4250;occ; 114; 0;46746  
 10; 5344.1; 07-FEB-2011 10:30:49; Dark ; 46.0; 86; 35Eta Oph ; 2.43; 10200;occ; 92; 0;46746  
 11; 5621.3; 07-FEB-2011 10:35:26; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;46746  
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 13; 5975.6; 07-FEB-2011 10:41:20; Dark ; 46.0; 131; Gam Lup ; 2.80; 26000;occ; 92; 0;46746  
 14; 6190.2; 07-FEB-2011 10:44:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46747  
 15; 6332.8; 07-FEB-2011 10:47:17; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;46747  
 16; 6528.7; 07-FEB-2011 10:50:33; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;46747  
 17; 6670.9; 07-FEB-2011 10:52:55; Dark ; 46.0; 99; Del Cen ; 2.58; 26000;occ; 92; 0;46747  
 18; 6874.5; 07-FEB-2011 10:56:19; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;46747

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 3; 3158.2; 07-FEB-2011 11:34:37; Bright; 30.0; 82; 48Bet UMa ; 2.37; 10600;occ; 60; 0;46747  
 4; 3569.4; 07-FEB-2011 11:41:28; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;46747  
 5; 3857.0; 07-FEB-2011 11:46:15; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;46747  
 6; 4063.2; 07-FEB-2011 11:49:42; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;46747  
 7; 4478.4; 07-FEB-2011 11:56:37; Bright; 68.0; 133; 40Zet Her ; 2.81; 6000;occ; 136; 0;46747  
 8; 4805.9; 07-FEB-2011 12:02:04; Bright; 59.0; 59; 55Alp Oph ; 2.08; 8900;occ; 118; 0;46747  
 9; 4936.6; 07-FEB-2011 12:04:15; Bright; 42.5; 126; 60Bet Oph ; 2.77; 4250;occ; 85; 0;46747  
 10; 5344.6; 07-FEB-2011 12:11:03; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;46747  
 11; 5622.1; 07-FEB-2011 12:15:40; Dark ; 63.5; 16; 21Alp Sco ; 1.02; 3000;occ; 127; 0;46747  
 12; 5726.0; 07-FEB-2011 12:17:24; Dark ; 50.5; 158; 6Pi Sco ; 2.91; 28000;occ; 101; 0;46747  
 13; 5976.4; 07-FEB-2011 12:21:35; Dark ; 46.0; 131; Gam Lup ; 2.80; 26000;occ; 92; 0;46747  
 14; 6190.9; 07-FEB-2011 12:25:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46748  
 15; 6333.2; 07-FEB-2011 12:27:32; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;46748  
 16; 6529.3; 07-FEB-2011 12:30:48; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;46748  
 17; 6671.7; 07-FEB-2011 12:33:10; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;46748  
 18; 6874.9; 07-FEB-2011 12:36:33; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;46748

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 3; 3157.6; 07-FEB-2011 13:14:50; Bright; 33.0; 82; 48Bet UMa ; 2.37; 10600;occ; 66; 0;46748  
 4; 3569.2; 07-FEB-2011 13:21:42; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;46748  
 5; 3856.6; 07-FEB-2011 13:26:29; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;46748  
 6; 4063.2; 07-FEB-2011 13:29:56; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;46748  
 7; 4478.5; 07-FEB-2011 13:36:51; Bright; 69.0; 133; 40Zet Her ; 2.81; 6000;occ; 138; 0;46748  
 8; 4806.2; 07-FEB-2011 13:42:19; Bright; 59.0; 59; 55Alp Oph ; 2.08; 8900;occ; 118; 0;46748  
 9; 4937.0; 07-FEB-2011 13:44:29; Bright; 57.0; 126; 60Bet Oph ; 2.77; 4250;occ; 114; 0;46748  
 10; 5345.4; 07-FEB-2011 13:51:18; Dark ; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;46748  
 11; 5623.0; 07-FEB-2011 13:55:55; Dark ; 64.0; 16; 21Alp Sco ; 1.02; 3000;occ; 128; 0;46748  
 12; 5727.0; 07-FEB-2011 13:57:39; Dark ; 48.5; 158; 6Pi Sco ; 2.91; 28000;occ; 97; 0;46748  
 13; 5977.4; 07-FEB-2011 14:01:50; Dark ; 46.0; 131; Gam Lup ; 2.80; 26000;occ; 92; 0;46748  
 14; 6191.7; 07-FEB-2011 14:05:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46749  
 15; 6334.0; 07-FEB-2011 14:07:46; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;46749  
 16; 6529.7; 07-FEB-2011 14:11:02; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;46749  
 17; 6672.5; 07-FEB-2011 14:13:25; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;46749  
 18; 6875.7; 07-FEB-2011 14:16:48; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;46749

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 5; 3856.7; 07-FEB-2011 15:06:43; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;46749  
 6; 4063.4; 07-FEB-2011 15:10:10; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;46749  
 7; 4478.7; 07-FEB-2011 15:17:05; Bright; 69.0; 133; 40Zet Her ; 2.81; 6000;occ; 138; 0;46749  
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 9; 4937.5; 07-FEB-2011 15:24:44; Bright; 57.0; 126; 60Bet Oph ; 2.77; 4250;occ; 114; 0;46749  
 10; 5346.1; 07-FEB-2011 15:31:32; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;46749  
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 12; 5728.2; 07-FEB-2011 15:37:55; Dark ; 50.0; 158; 6Pi Sco ; 2.91; 28000;occ; 100; 0;46749  
 13; 5978.2; 07-FEB-2011 15:42:05; Dark ; 45.0; 131; Gam Lup ; 2.80; 26000;occ; 90; 0;46749  
 14; 6192.5; 07-FEB-2011 15:45:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46750  
 15; 6334.6; 07-FEB-2011 15:48:01; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;46750  
 16; 6530.2; 07-FEB-2011 15:51:17; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;46750  
 17; 6673.3; 07-FEB-2011 15:53:40; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;46750  
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 3; 3155.8; 07-FEB-2011 16:35:16; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;46750  
 4; 3568.7; 07-FEB-2011 16:42:09; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;46750  
 5; 3856.3; 07-FEB-2011 16:46:57; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;46750  
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 17; 6674.1; 07-FEB-2011 17:33:55; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;46751  
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 3; 3155.1; 07-FEB-2011 18:15:30; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;46751  
 4; 3568.4; 07-FEB-2011 18:22:23; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;46751  
 5; 3855.8; 07-FEB-2011 18:27:10; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;46751  
 6; 4063.1; 07-FEB-2011 18:30:38; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;46751  
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 8; 4807.2; 07-FEB-2011 18:43:02; Bright; 59.0; 59; 55Alp Oph ; 2.08; 8900;occ; 118; 0;46751  
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 13; 5980.2; 07-FEB-2011 19:02:35; Dark ; 44.0; 131; Gam Lup ; 2.80; 26000;occ; 88; 0;46751  
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 15; 6335.7; 07-FEB-2011 19:08:30; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;46752  
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 4; 3154.4; 07-FEB-2011 19:55:43; Bright; 39.0; 82; 48Bet UMa ; 2.37; 10600;occ; 78; 0;46752  
 5; 3567.9; 07-FEB-2011 20:02:36; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;46752  
 6; 3855.7; 07-FEB-2011 20:07:24; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;46752  
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 8; 4478.9; 07-FEB-2011 20:17:48; Bright; 47.0; 133; 40Zet Her ; 2.81; 6000;occ; 94; 0;46752  
 9; 4807.4; 07-FEB-2011 20:23:16; Bright; 48.5; 59; 55Alp Oph ; 2.08; 8900;occ; 97; 0;46752  
 10; 4938.2; 07-FEB-2011 20:25:27; Bright; 58.0; 126; 60Bet Oph ; 2.77; 4250;occ; 116; 0;46752  
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15; 6194.7; 07-FEB-2011 20:46:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46753
16; 6336.3; 07-FEB-2011 20:48:45; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;46753
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19; 6877.7; 07-FEB-2011 20:57:46; Dark ; 50.5; 113; Mu Vel ; 2.69; 5000;occ; 101; 0;46753
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 4; 666.5; 08-FEB-2011 08:36:07; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;46760
 5; 867.5; 08-FEB-2011 08:39:28; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46760
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 8; 4941.8; 08-FEB-2011 09:47:22; Bright; 58.0; 126; 60Bet Oph ; 2.77; 4250;occ; 116; 0;46760
 9; 5353.2; 08-FEB-2011 09:54:14; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;46760
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7; 683.3; 10-FEB-2011 00:42:00; Dark ; 43.0; 99; Del Cen ; 2.58; 26000;occ; 86; 0;46784
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9; 879.9; 10-FEB-2011 02:25:31; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;46785
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3; -1953.4; 10-FEB-2011 03:18:31; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;46785
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6; -1194.4; 10-FEB-2011 03:31:10; Bright; 61.0; 59; 55Alp Oph ; 2.08; 8900;occ; 122; 0;46785
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12; 205.3; 10-FEB-2011 03:54:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46786
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6; 4060.1; 10-FEB-2011 11:39:41; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;46790
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6; 4060.2; 10-FEB-2011 13:19:55; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;46791
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9; 4961.7; 11-FEB-2011 14:38:26; Bright; 45.0; 126; 60Bet Oph ; 2.77; 4250;occ; 90; 0;46806
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4; 24.6; 12-FEB-2011 00:57:47; Dark ; 45.0; 131; Gam Lup ; 2.80; 26000;occ; 90; 0;46813
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11; 227.2; 12-FEB-2011 04:21:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46815
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19; 3097.7; 13-FEB-2011 04:32:45; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;46829
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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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 7; 4305.3; 13-FEB-2011 08:13:20; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;46831
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 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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11; 5701.6; 13-FEB-2011 08:36:37; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;46831
12; 5826.4; 13-FEB-2011 08:38:41; Dark ; 57.0; 158; 6Pi Sco ; 2.91; 28000;occ; 114; 0;46831
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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 3; 3544.9; 13-FEB-2011 09:40:54; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;46832
 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
 6; 4305.3; 13-FEB-2011 09:53:34; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;46832
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3; 3076.4; 15-FEB-2011 08:19:38; Bright; 50.0; 82; 48Bet UMa ; 2.37; 10600;occ; 100; 0;46860  
4; 3536.4; 15-FEB-2011 08:27:18; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46860  
5; 3826.5; 15-FEB-2011 08:32:08; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;46860  
6; 4052.9; 15-FEB-2011 08:35:54; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;46860  
7; 4308.0; 15-FEB-2011 08:40:09; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;46860  
8; 4851.7; 15-FEB-2011 08:49:13; Bright; 52.5; 59; 55Alp Oph ; 2.08; 8900;occ; 105; 0;46860  
9; 4988.3; 15-FEB-2011 08:51:29; Dark ; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;46860  
10; 5429.0; 15-FEB-2011 08:58:50; Dark ; 49.0; 86; 35Eta Oph ; 2.43; 10200;occ; 98; 0;46860  
11; 5732.4; 15-FEB-2011 09:03:54; Dark ; 58.5; 16; 21Alp Sco ; 1.02; 3000;occ; 117; 0;46860  
12; 5865.0; 15-FEB-2011 09:06:06; Dark ; 54.0; 158; 6Pi Sco ; 2.91; 28000;occ; 108; 0;46860  
13; 6087.4; 15-FEB-2011 09:09:49; Dark ; 48.5; 131; Gam Lup ; 2.80; 26000;occ; 97; 0;46861  
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16; 6484.1; 15-FEB-2011 09:16:25; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;46861  
17; 6586.4; 15-FEB-2011 09:18:08; Dark ; 51.0; 12; Alp1Cru ; 0.77; 30000;occ; 102; 0;46861  
18; 6685.6; 15-FEB-2011 09:19:47; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;46861  
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3; 3075.7; 15-FEB-2011 09:59:51; Bright; 44.0; 82; 48Bet UMa ; 2.37; 10600;occ; 88; 0;46861  
4; 3536.2; 15-FEB-2011 10:07:31; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;46861  
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  
8; 4852.1; 15-FEB-2011 10:29:27; Bright; 65.0; 59; 55Alp Oph ; 2.08; 8900;occ; 130; 0;46861  
9; 4988.6; 15-FEB-2011 10:31:44; Dark ; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;46861  
10; 5429.8; 15-FEB-2011 10:39:05; Dark ; 50.0; 86; 35Eta Oph ; 2.43; 10200;occ; 100; 0;46861  
11; 5733.5; 15-FEB-2011 10:44:09; Dark ; 58.5; 16; 21Alp Sco ; 1.02; 3000;occ; 117; 0;46861  
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13; 6088.4; 15-FEB-2011 10:50:04; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;46862  
14; 6277.1; 15-FEB-2011 10:53:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46862  
15; 6403.3; 15-FEB-2011 10:55:18; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;46862  
16; 6484.9; 15-FEB-2011 10:56:40; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;46862  
17; 6586.8; 15-FEB-2011 10:58:22; Dark ; 52.0; 12; Alp1Cru ; 0.77; 30000;occ; 104; 0;46862  
18; 6686.2; 15-FEB-2011 11:00:01; Dark ; 48.5; 64; Gam Cen ; 2.20; 10600;occ; 97; 0;46862  
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3; 3074.4; 15-FEB-2011 13:20:17; Bright; 44.0; 82; 48Bet UMa ; 2.37; 10600;occ; 88; 0;46863  
4; 3535.6; 15-FEB-2011 13:27:59; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;46863  
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  
9; 4989.9; 15-FEB-2011 13:52:13; Dark ; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;46863  
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11; 5735.6; 15-FEB-2011 14:04:39; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;46863  
12; 5869.3; 15-FEB-2011 14:06:52; Dark ; 49.0; 158; 6Pi Sco ; 2.91; 28000;occ; 98; 0;46863  
13; 6090.4; 15-FEB-2011 14:10:33; Dark ; 47.0; 131; Gam Lup ; 2.80; 26000;occ; 94; 0;46864  
14; 6278.6; 15-FEB-2011 14:13:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46864  
15; 6404.8; 15-FEB-2011 14:15:48; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;46864  
16; 6486.5; 15-FEB-2011 14:17:10; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;46864  
17; 6587.7; 15-FEB-2011 14:18:51; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 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
5; 3825.3; 15-FEB-2011 15:13:02; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;46864
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
9; 4990.5; 15-FEB-2011 15:32:28; Dark ; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;46864
10; 5432.5; 15-FEB-2011 15:39:50; Dark ; 48.5; 86; 35Eta Oph ; 2.43; 10200;occ; 97; 0;46864
11; 5736.8; 15-FEB-2011 15:44:54; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;46864
12; 5870.7; 15-FEB-2011 15:47:08; Dark ; 44.0; 158; 6Pi Sco ; 2.91; 28000;occ; 88; 0;46864
13; 6091.5; 15-FEB-2011 15:50:49; Dark ; 47.5; 131; Gam Lup ; 2.80; 26000;occ; 95; 0;46865
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
16; 6487.3; 15-FEB-2011 15:57:24; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 0;46865
17; 6588.2; 15-FEB-2011 15:59:05; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;46865
18; 6688.6; 15-FEB-2011 16:00:46; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;46865
19; 6931.9; 15-FEB-2011 16:04:49; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;46865
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3; 3073.1; 15-FEB-2011 16:40:44; Bright; 45.5; 82; 48Bet UMa ; 2.37; 10600;occ; 91; 0;46865
4; 3535.0; 15-FEB-2011 16:48:26; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;46865
5; 3824.9; 15-FEB-2011 16:53:16; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;46865
6; 4052.5; 15-FEB-2011 16:57:04; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;46865
7; 4308.4; 15-FEB-2011 17:01:19; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;46865
8; 4854.1; 15-FEB-2011 17:10:25; Bright; 48.0; 59; 55Alp Oph ; 2.08; 8900;occ; 96; 0;46865
9; 4990.9; 15-FEB-2011 17:12:42; Dark ; 49.0; 126; 60Bet Oph ; 2.77; 4250;occ; 98; 0;46865
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13; 6092.6; 15-FEB-2011 17:31:04; Dark ; 48.5; 131; Gam Lup ; 2.80; 26000;occ; 97; 0;46866
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15; 6405.9; 15-FEB-2011 17:36:17; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;46866
16; 6488.0; 15-FEB-2011 17:37:39; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;46866
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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3; 2365.6; 15-FEB-2011 18:09:11; Bright; 44.5; 166; 17Eps Leo ; 2.98; 6000;occ; 89; 0;46866
4; 3072.3; 15-FEB-2011 18:20:58; Bright; 59.5; 82; 48Bet UMa ; 2.37; 10600;occ; 119; 0;46866
5; 3534.7; 15-FEB-2011 18:28:40; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;46866
6; 3824.7; 15-FEB-2011 18:33:30; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;46866
7; 4052.1; 15-FEB-2011 18:37:17; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;46866
8; 4308.3; 15-FEB-2011 18:41:33; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;46866
9; 4854.4; 15-FEB-2011 18:50:40; Bright; 50.0; 59; 55Alp Oph ; 2.08; 8900;occ; 100; 0;46866
10; 4991.4; 15-FEB-2011 18:52:57; Dark ; 52.5; 126; 60Bet Oph ; 2.77; 4250;occ; 105; 0;46866
11; 5434.0; 15-FEB-2011 19:00:19; Dark ; 51.5; 86; 35Eta Oph ; 2.43; 10200;occ; 103; 0;46866
12; 5738.9; 15-FEB-2011 19:05:24; Dark ; 71.0; 16; 21Alp Sco ; 1.02; 3000;occ; 142; 0;46866
13; 5873.1; 15-FEB-2011 19:07:38; Dark ; 39.0; 158; 6Pi Sco ; 2.91; 28000;occ; 78; 0;46866
14; 6093.6; 15-FEB-2011 19:11:19; Dark ; 47.5; 131; Gam Lup ; 2.80; 26000;occ; 95; 0;46867
15; 6281.0; 15-FEB-2011 19:14:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46867
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
18; 6575.6; 15-FEB-2011 19:19:21; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0;46867
19; 6649.9; 15-FEB-2011 19:20:35; Dark ; 40.5; 129; Del Cru ; 2.79; 26000;occ; 81; 0;46867
20; 6753.8; 15-FEB-2011 19:22:19; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;46867
21; 6932.8; 15-FEB-2011 19:25:18; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;46867
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6; 476.7; 16-FEB-2011 00:18:38; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;46870
7; 563.2; 16-FEB-2011 00:20:04; Dark ; 43.0; 20; Bet Cru ; 1.25; 30000;occ; 86; 0;46870
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9; 741.6; 16-FEB-2011 00:23:03; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;46870
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14; 3069.7; 16-FEB-2011 01:01:51; Bright; 44.5; 82; 48Bet UMa ; 2.37; 10600;occ; 89; 0;46870
15; 3533.4; 16-FEB-2011 01:09:35; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;46870
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17; 4051.7; 16-FEB-2011 01:18:13; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;46870
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3; 83.7; 16-FEB-2011 01:52:19; Dark ; 49.0; 131; Gam Lup ; 2.80; 26000;occ; 98; 0;46871
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9; 742.2; 16-FEB-2011 02:03:17; Dark ; 43.0; 99; Del Cen ; 2.58; 26000;occ; 86; 0;46871
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14; 3068.9; 16-FEB-2011 02:42:04; Bright; 45.5; 82; 48Bet UMa ; 2.37; 10600;occ; 91; 0;46871
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 33; 6970.1; 22-FEB-2011 03:27:10; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;46958  
 34; 7747.6; 22-FEB-2011 03:40:07; Dark ; 50.5; 48; 30Alp Hya ; 1.98; 4100;occ; 101; 0;46958  
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 12; 180.1; 22-FEB-2011 04:54:28; Dark ; 49.0; 131; Gam Lup ; 2.80; 26000;occ; 98; 0;46959  
 13; 369.4; 22-FEB-2011 04:57:37; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;46959  
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 5; 3504.4; 22-FEB-2011 09:10:20; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;46961  
 6; 3792.0; 22-FEB-2011 09:15:08; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;46961  
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 19; 6560.5; 22-FEB-2011 10:01:16; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;46962  
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