

# GOMOS Daily Report 18-DEC-2010

## Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	21DEC2010 05:03:38
Data source version	GOMOS/5.01
Start time of products	18DEC2010 00:01:18
Stop time of products	18DEC2010 23:58:23
Store outputs in DB	Yes
Nb of level 1b prods	161
Nb of prods with errors	2

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

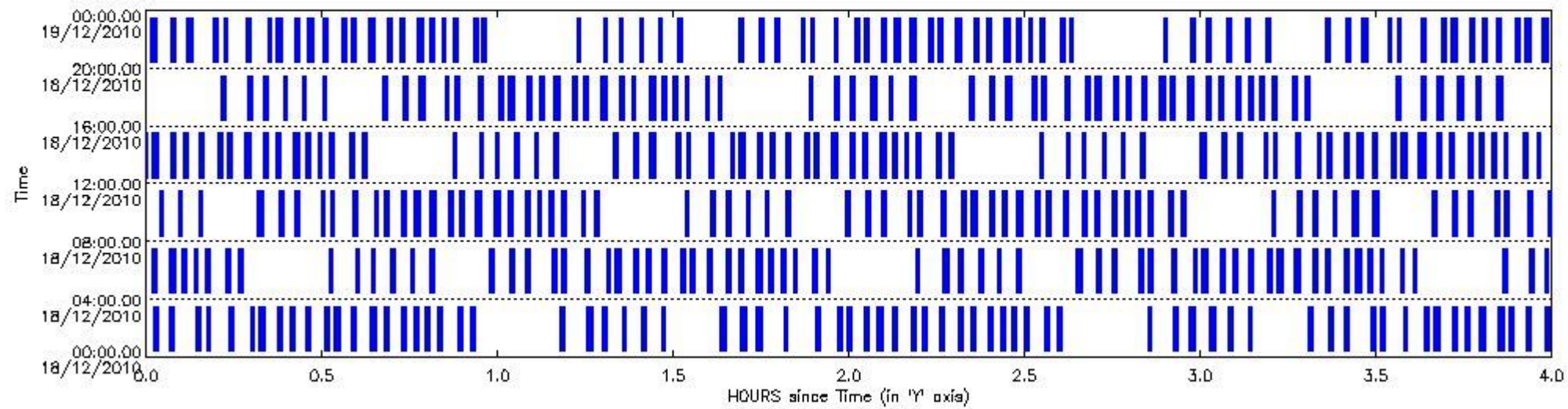
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

No missing products.

### 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_1PNPDE20101218_000118_000000503097_00303_46007_7395.N1	18-DEC-2010 00:01:18	Dark	50.000	169	46Gam Hya	2.9910	4700.0	100	46007	No
2	GOM_TRA_1PNPDE20101218_000356_000000543097_00303_46007_7396.N1	18-DEC-2010 00:03:56	Dark	54.000	106	9Bet Crv	2.6480	5600.0	108	46007	No
3	GOM_TRA_1PNPDE20101218_000833_000000433097_00303_46007_7397.N1	18-DEC-2010 00:08:33	Dark	43.000	64	Gam Cen	2.2000	10600.	86	46007	No
4	GOM_TRA_1PNPDE20101218_001012_000000443097_00304_46008_7398.N1	18-DEC-2010 00:10:12	Dark	43.500	99	Del Cen	2.5750	26000.	87	46008	No
5	GOM_TRA_1PNPDE20101218_001407_000000473097_00304_46008_7399.N1	18-DEC-2010 00:14:07	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	46008	No
6	GOM_TRA_1PNPDE20101218_001747_000000413097_00304_46008_7400.N1	18-DEC-2010 00:17:47	Dark	41.000	71	lot Car	2.2460	7700.0	82	46008	No
7	GOM_TRA_1PNPDE20101218_002227_000000473097_00304_46008_7401.N1	18-DEC-2010 00:22:27	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	46008	No
8	GOM_TRA_1PNPDE20101218_002435_000000513097_00304_46008_7402.N1	18-DEC-2010 00:24:35	Dark	51.000	70	Zet Pup	2.2460	39000.	102	46008	No
9	GOM_TRA_1PNPDE20101218_002713_000000533097_00304_46008_7403.N1	18-DEC-2010 00:27:13	Dark	53.000	117	Pi Pup	2.7060	3800.0	106	46008	No
10	GOM_TRA_1PNPDE20101218_003023_000000533097_00304_46008_7404.N1	18-DEC-2010 00:30:23	Straylight	52.500	23	21Eps CMa	1.5020	26000.	105	46008	No
11	GOM_TRA_1PNPDE20101218_003208_000000513097_00304_46008_7405.N1	18-DEC-2010 00:32:08	Straylight	51.000	179	24Omi2CMa	3.0320	24000.	102	46008	No
12	GOM_TRA_1PNPDE20101218_003505_000000483097_00304_46008_7406.N1	18-DEC-2010 00:35:05	Straylight	48.000	1	9Alp CMa	-1.4400	11000.	96	46008	No

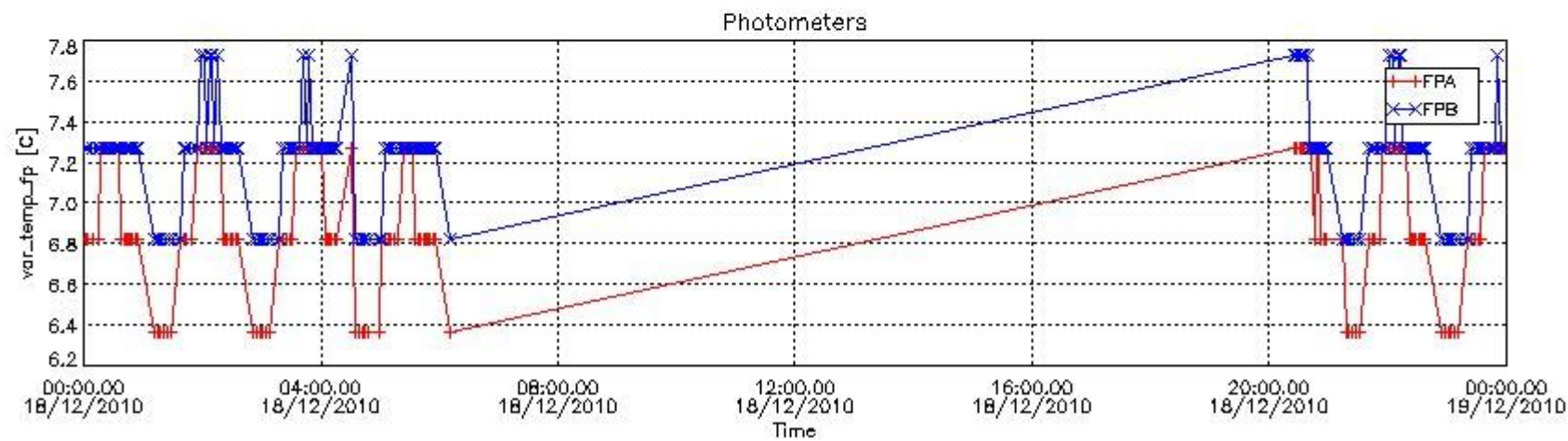
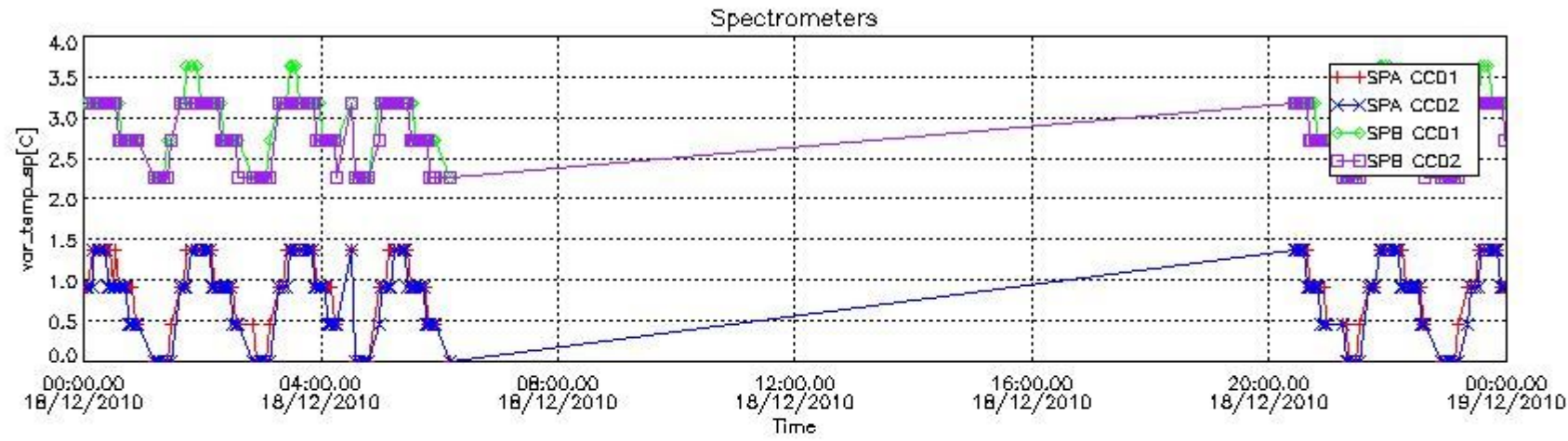
13	GOM_TRA_1PNPDE20101218_003819_000000563097_00304_46008_7407.N1	18-DEC-2010 00:38:19	Straylight	56.000	7	19Bet Ori	0.10000	14000.	112	46008	No
14	GOM_TRA_1PNPDE20101218_004029_000000493097_00304_46008_7408.N1	18-DEC-2010 00:40:29	Straylight	48.500	30	46Eps Ori	1.6940	30000.	97	46008	No
15	GOM_TRA_1PNPDE20101218_004331_000000563097_00304_46008_7409.N1	18-DEC-2010 00:43:31	Tw_i_and_stray	56.000	14	58Alp Ori	0.87000	3000.0	112	46008	No
16	GOM_TRA_1PNPDE20101218_004535_000000543097_00304_46008_7410.N1	18-DEC-2010 00:45:35	Tw_i_and_stray	54.000	13	87Alp Tau	0.86700	3800.0	108	46008	No
17	GOM_TRA_1PNPDE20101218_004739_000000433097_00304_46008_7411.N1	18-DEC-2010 00:47:39	Bright	43.000	176	23Zet Tau	3.0200	22000.	86	46008	No
18	GOM_TRA_1PNPDE20101218_004942_000000433097_00304_46008_7412.N1	18-DEC-2010 00:49:42	Bright	43.000	28	12Bet Tau	1.6500	15200.	86	46008	No
19	GOM_TRA_1PNPDE20101218_005311_000000443097_00304_46008_7413.N1	18-DEC-2010 00:53:11	Bright	44.000	107	37The Aur	2.6490	11000.	88	46008	No
20	GOM_TRA_1PNPDE20101218_005522_000000423097_00304_46008_7414.N1	18-DEC-2010 00:55:22	Bright	41.500	42	34Bet Aur	1.9000	10200.	83	46008	No
21	GOM_TRA_1PNPDE20101218_011044_000000343097_00304_46008_7415.N1	18-DEC-2010 01:10:44	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	46008	No
22	GOM_TRA_1PNPDE20101218_011514_000000633097_00304_46008_7416.N1	18-DEC-2010 01:15:14	Bright	63.000	32	77Eps UMa	1.7630	11000.	126	46008	No
23	GOM_TRA_1PNPDE20101218_011754_000000433097_00304_46008_7417.N1	18-DEC-2010 01:17:54	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	46008	No
24	GOM_TRA_1PNPDE20101218_012119_000000373097_00304_46008_7418.N1	18-DEC-2010 01:21:19	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	46008	No
25	GOM_TRA_1PNPDE20101218_012433_000000433097_00304_46008_7419.N1	18-DEC-2010 01:24:33	Bright	43.000	83		2.3780	11000.	86	46008	No
26	GOM_TRA_1PNPDE20101218_012756_000000413097_00304_46008_7420.N1	18-DEC-2010 01:27:56	Bright	41.000	111	8Eta Boo	2.6800	6000.0	82	46008	No
27	GOM_TRA_1PNPDE20101218_013803_000000533097_00304_46008_7419.N1	18-DEC-2010 01:38:03	Tw_i_and_stray	53.000	15	67Alp Vir	0.97600	28000.	106	46008	No
28	GOM_TRA_1PNPDE20101218_014133_000000503097_00304_46008_7420.N1	18-DEC-2010 01:41:33	Dark	50.000	169	46Gam Hya	2.9910	4700.0	100	46008	No
29	GOM_TRA_1PNPDE20101218_014411_000000523097_00304_46008_7421.N1	18-DEC-2010 01:44:11	Dark	52.000	106	9Bet Crv	2.6480	5600.0	104	46008	No
30	GOM_TRA_1PNPDE20101218_014848_000000433097_00304_46008_7422.N1	18-DEC-2010 01:48:48	Dark	43.000	64	Gam Cen	2.2000	10600.	86	46008	No
31	GOM_TRA_1PNPDE20101218_015422_000000463097_00305_46009_7423.N1	18-DEC-2010 01:54:22	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	46009	No
32	GOM_TRA_1PNPDE20101218_015801_000000423097_00305_46009_7424.N1	18-DEC-2010 01:58:01	Dark	41.500	71	lot Car	2.2460	7700.0	83	46009	No
33	GOM_TRA_1PNPDE20101218_020242_000000483097_00305_46009_7425.N1	18-DEC-2010 02:02:42	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	46009	No
34	GOM_TRA_1PNPDE20101218_020450_000000513097_00305_46009_7426.N1	18-DEC-2010 02:04:50	Dark	51.000	70	Zet Pup	2.2460	39000.	102	46009	No
35	GOM_TRA_1PNPDE20101218_020728_000000513097_00305_46009_7427.N1	18-DEC-2010 02:07:28	Dark	50.500	117	Pi Pup	2.7060	3800.0	101	46009	No
36	GOM_TRA_1PNPDE20101218_021038_000000543097_00305_46009_7428.N1	18-DEC-2010 02:10:38	Straylight	53.500	23	21Eps CMa	1.5020	26000.	107	46009	No
37	GOM_TRA_1PNPDE20101218_021222_000000533097_00305_46009_7429.N1	18-DEC-2010 02:12:22	Straylight	53.000	179	24Omi2CMa	3.0320	24000.	106	46009	No
38	GOM_TRA_1PNPDE20101218_021519_000000483097_00305_46009_7430.N1	18-DEC-2010 02:15:19	Straylight	48.000	1	9Alp CMa	-1.4400	11000.	96	46009	No
39	GOM_TRA_1PNPDE20101218_021833_000000553097_00305_46009_7431.N1	18-DEC-2010 02:18:33	Straylight	54.500	7	19Bet Ori	0.10000	14000.	109	46009	No
40	GOM_TRA_1PNPDE20101218_022043_000000463097_00305_46009_7432.N1	18-DEC-2010 02:20:43	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	46009	No
41	GOM_TRA_1PNPDE20101218_022345_000000563097_00305_46009_7433.N1	18-DEC-2010 02:23:45	Tw_i_and_stray	56.000	14	58Alp Ori	0.87000	3000.0	112	46009	No
42	GOM_TRA_1PNPDE20101218_022549_000000493097_00305_46009_7434.N1	18-DEC-2010 02:25:49	Tw_i_and_stray	48.500	13	87Alp Tau	0.86700	3800.0	97	46009	No
43	GOM_TRA_1PNPDE20101218_022752_000000433097_00305_46009_7435.N1	18-DEC-2010 02:27:52	Bright	42.500	176	23Zet Tau	3.0200	22000.	85	46009	No
44	GOM_TRA_1PNPDE20101218_022956_000000433097_00305_46009_7436.N1	18-DEC-2010 02:29:56	Bright	43.000	28	12Bet Tau	1.6500	15200.	86	46009	No
45	GOM_TRA_1PNPDE20101218_023324_000000433097_00305_46009_7437.N1	18-DEC-2010 02:33:24	Bright	43.000	107	37The Aur	2.6490	11000.	86	46009	No
46	GOM_TRA_1PNPDE20101218_023535_000000423097_00305_46009_7438.N1	18-DEC-2010 02:35:35	Bright	41.500	42	34Bet Aur	1.9000	10200.	83	46009	No
47	GOM_TRA_1PNPDE20101218_025058_000000393097_00305_46009_7441.N1	18-DEC-2010 02:50:58	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	46009	No
48	GOM_TRA_1PNPDE20101218_025528_000000453097_00305_46009_7442.N1	18-DEC-2010 02:55:28	Bright	45.000	32	77Eps UMa	1.7630	11000.	90	46009	No
49	GOM_TRA_1PNPDE20101218_025808_000000593097_00305_46009_7443.N1	18-DEC-2010 02:58:08	Bright	59.000	39	85Eta UMa	1.8540	24000.	118	46009	No
50	GOM_TRA_1PNPDE20101218_030133_000000563097_00305_46009_7444.N1	18-DEC-2010 03:01:33	Bright	56.000	180	27Gam Boo	3.0400	8000.0	112	46009	No
51	GOM_TRA_1PNPDE20101218_030448_000000423097_00305_46009_7445.N1	18-DEC-2010 03:04:48	Bright	41.500	83		2.3780	11000.	83	46009	No
52	GOM_TRA_1PNPDE20101218_030810_000000423097_00305_46009_7446.N1	18-DEC-2010 03:08:10	Bright	42.000	111	8Eta Boo	2.6800	6000.0	84	46009	No
53	GOM_TRA_1PNPDE20101218_031817_000000553097_00305_46009_7447.N1	18-DEC-2010 03:18:17	Tw_i_and_stray	54.500	15	67Alp Vir	0.97600	28000.	109	46009	No
54	GOM_TRA_1PNPDE20101218_032148_000000463097_00305_46009_7448.N1	18-DEC-2010 03:21:48	Dark	45.500	169	46Gam Hya	2.9910	4700.0	91	46009	No
55	GOM_TRA_1PNPDE20101218_032427_000000543097_00305_46009_7449.N1	18-DEC-2010 03:24:27	Dark	53.500	106	9Bet Crv	2.6480	5600.0	107	46009	No
56	GOM_TRA_1PNPDE20101218_032903_000000493097_00305_46009_7450.N1	18-DEC-2010 03:29:03	Dark	48.500	64	Gam Cen	2.2000	10600.	97	46009	No
57	GOM_TRA_1PNPDE20101218_033042_000000433097_00306_46010_7451.N1	18-DEC-2010 03:30:42	Dark	42.500	99	Del Cen	2.5750	26000.	85	46010	No
58	GOM_TRA_1PNPDE20101218_033437_000000473097_00306_46010_7452.N1	18-DEC-2010 03:34:37	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	46010	No
59	GOM_TRA_1PNPDE20101218_033816_000000413097_00306_46010_7453.N1	18-DEC-2010 03:38:16	Dark	41.000	71	lot Car	2.2460	7700.0	82	46010	No
60	GOM_TRA_1PNPDE20101218_034257_000000483097_00306_46010_7454.N1	18-DEC-2010 03:42:57	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	46010	No
61	GOM_TRA_1PNPDE20101218_034505_000000513097_00306_46010_7455.N1	18-DEC-2010 03:45:05	Dark	50.500	70	Zet Pup	2.2460	39000.	101	46010	No
62	GOM_TRA_1PNPDE20101218_034742_000000543097_00306_46010_7456.N1	18-DEC-2010 03:47:42	Dark	53.500	117	Pi Pup	2.7060	3800.0	107	46010	No
63	GOM_TRA_1PNPDE20101218_035052_000000533097_00306_46010_7457.N1	18-DEC-2010 03:50:52	Straylight	52.500	23	21Eps CMa	1.5020	26000.	105	46010	No
64	GOM_TRA_1PNPDE20101218_035237_000000513097_00306_46010_7458.N1	18-DEC-2010 03:52:37	Straylight	51.000	179	24Omi2CMa	3.0320	24000.	102	46010	No
65	GOM_TRA_1PNPDE20101218_035533_000000543097_00306_46010_7459.N1	18-DEC-2010 03:55:33	Straylight	54.000	1	9Alp CMa	-1.4400	11000.	108	46010	No
66	GOM_TRA_1PNPDE20101218_035847_000000503097_00306_46010_7460.N1	18-DEC-2010 03:58:47	Straylight	49.500	7	19Bet Ori	0.10000	14000.	99	46010	No
67	GOM_TRA_1PNPDE20101218_040057_000000483097_00306_46010_7461.N1	18-DEC-2010 04:00:57	Straylight	48.000	30	46Eps Ori	1.6940	30000.	96	46010	No
68	GOM_TRA_1PNPDE20101218_040359_000000593097_00306_46010_7462.N1	18-DEC-2010 04:03:59	Tw_i_and_stray	59.000	14	58Alp Ori	0.87000	3000.0	118	46010	No
69	GOM_TRA_1PNPDE20101218_040603_000000463097_00306_46010_7463.N1	18-DEC-2010 04:06:03	Tw_i_and_stray	46.000	13	87Alp Tau	0.86700	3800.0	92	46010	No
70	GOM_TRA_1PNPDE20101218_040806_000000423097_00306_46010_7464.N1	18-DEC-2010 04:08:06	Bright	41.500	176	23Zet Tau	3.0200	22000.	83	46010	No
71	GOM_TRA_1PNPDE20101218_041010_000000443097_00306_46010_7465.N1	18-DEC-2010 04:10:10	Bright	44.000	28	12Bet Tau	1.6500	15200.	88	46010	No



72	GOM_TRA_1PNPDE20101218_041338_000000443097_00306_46010_7466.N1	18-DEC-2010 04:13:38	Bright	44.000	107	37The Aur	2.6490	11000.	88	46010	No
73	GOM_TRA_1PNPDE20101218_041549_000000433097_00306_46010_7467.N1	18-DEC-2010 04:15:49	Bright	42.500	42	34Bet Aur	1.9000	10200.	85	46010	No
74	GOM_TRA_1PNPDE20101218_043112_000000393097_00306_46010_7462.N1	18-DEC-2010 04:31:12	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	46010	Yes
75	GOM_TRA_1PNPDE20101218_043542_000000433097_00306_46010_7463.N1	18-DEC-2010 04:35:42	Bright	43.000	32	77Eps UMa	1.7630	11000.	86	46010	No
76	GOM_TRA_1PNPDE20101218_043822_000000413097_00306_46010_7464.N1	18-DEC-2010 04:38:22	Bright	41.000	39	85Eta UMa	1.8540	24000.	82	46010	No
77	GOM_TRA_1PNPDE20101218_044147_000000363097_00306_46010_7465.N1	18-DEC-2010 04:41:47	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	46010	No
78	GOM_TRA_1PNPDE20101218_044502_000000373097_00306_46010_7466.N1	18-DEC-2010 04:45:02	Bright	36.500	83		2.3780	11000.	73	46010	No
79	GOM_TRA_1PNPDE20101218_044825_000000443097_00306_46010_7467.N1	18-DEC-2010 04:48:25	Bright	43.500	111	8Eta Boo	2.6800	6000.0	87	46010	No
80	GOM_TRA_1PNPDE20101218_045832_000000533097_00306_46010_7468.N1	18-DEC-2010 04:58:32	Twi_and_stray	53.000	15	67Alp Vir	0.97600	28000.	106	46010	No
81	GOM_TRA_1PNPDE20101218_050202_000000473097_00306_46010_7469.N1	18-DEC-2010 05:02:02	Dark	46.500	169	46Gam Hya	2.9910	4700.0	93	46010	No
82	GOM_TRA_1PNPDE20101218_050442_000000523097_00306_46010_7470.N1	18-DEC-2010 05:04:42	Dark	51.500	106	9Bet Crv	2.6480	5600.0	103	46010	No
83	GOM_TRA_1PNPDE20101218_050917_000000423097_00306_46010_7471.N1	18-DEC-2010 05:09:17	Dark	41.500	64	Gam Cen	2.2000	10600.	83	46010	No
84	GOM_TRA_1PNPDE20101218_051057_000000423097_00307_46011_7472.N1	18-DEC-2010 05:10:57	Dark	42.000	99	Del Cen	2.5750	26000.	84	46011	No
85	GOM_TRA_1PNPDE20101218_051452_000000463097_00307_46011_7473.N1	18-DEC-2010 05:14:52	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	46011	No
86	GOM_TRA_1PNPDE20101218_051831_000000443097_00307_46011_7474.N1	18-DEC-2010 05:18:31	Dark	44.000	71	Iot Car	2.2460	7700.0	88	46011	No
87	GOM_TRA_1PNPDE20101218_052311_000000483097_00307_46011_7475.N1	18-DEC-2010 05:23:11	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	46011	No
88	GOM_TRA_1PNPDE20101218_052519_000000523097_00307_46011_7476.N1	18-DEC-2010 05:25:19	Dark	51.500	70	Zet Pup	2.2460	39000.	103	46011	No
89	GOM_TRA_1PNPDE20101218_052757_000000543097_00307_46011_7477.N1	18-DEC-2010 05:27:57	Dark	53.500	117	Pi Pup	2.7060	3800.0	107	46011	No
90	GOM_TRA_1PNPDE20101218_053107_000000503097_00307_46011_7478.N1	18-DEC-2010 05:31:07	Straylight	50.000	23	21Eps CMa	1.5020	26000.	100	46011	No
91	GOM_TRA_1PNPDE20101218_053252_000000523097_00307_46011_7479.N1	18-DEC-2010 05:32:52	Straylight	52.000	179	24Omi2CMa	3.0320	24000.	104	46011	No
92	GOM_TRA_1PNPDE20101218_053547_000000543097_00307_46011_7480.N1	18-DEC-2010 05:35:47	Straylight	54.000	1	9Alp CMa	-1.4400	11000.	108	46011	No
93	GOM_TRA_1PNPDE20101218_053901_000000503097_00307_46011_7481.N1	18-DEC-2010 05:39:01	Straylight	49.500	7	19Bet Ori	0.10000	14000.	99	46011	No
94	GOM_TRA_1PNPDE20101218_054111_000000503097_00307_46011_7482.N1	18-DEC-2010 05:41:11	Straylight	50.000	30	46Eps Ori	1.6940	30000.	100	46011	No
95	GOM_TRA_1PNPDE20101218_054412_000000653097_00307_46011_7483.N1	18-DEC-2010 05:44:12	Twi_and_stray	65.000	14	58Alp Ori	0.87000	3000.0	130	46011	No
96	GOM_TRA_1PNPDE20101218_054617_000000463097_00307_46011_7484.N1	18-DEC-2010 05:46:17	Twi_and_stray	46.000	13	87Alp Tau	0.86700	3800.0	92	46011	No
97	GOM_TRA_1PNPDE20101218_054820_000000453097_00307_46011_7485.N1	18-DEC-2010 05:48:20	Bright	45.000	176	23Zet Tau	3.0200	22000.	90	46011	No
98	GOM_TRA_1PNPDE20101218_055023_000000433097_00307_46011_7486.N1	18-DEC-2010 05:50:23	Bright	43.000	28	12Bet Tau	1.6500	15200.	86	46011	No
99	GOM_TRA_1PNPDE20101218_055352_000000443097_00307_46011_7487.N1	18-DEC-2010 05:53:52	Bright	43.500	107	37The Aur	2.6490	11000.	87	46011	No
100	GOM_TRA_1PNPDE20101218_055603_000000433097_00307_46011_7488.N1	18-DEC-2010 05:56:03	Bright	43.000	42	34Bet Aur	1.9000	10200.	86	46011	No
101	GOM_TRA_1PNPDE20101218_061127_00000063097_00307_46011_7489.N1	18-DEC-2010 06:11:27	Straylight	6.0000	60	7Bet UMi	2.0810	3950.0	12	46011	No
102	GOM_TRA_1PNPDE20101218_202524_000000533097_00316_46020_7577.N1	18-DEC-2010 20:25:24	Dark	52.500	34	Gam2Vel	1.7930	23000.	105	46020	Yes
103	GOM_TRA_1PNPDE20101218_202732_000000543097_00316_46020_7578.N1	18-DEC-2010 20:27:32	Dark	53.500	70	Zet Pup	2.2460	39000.	107	46020	No
104	GOM_TRA_1PNPDE20101218_203008_000000533097_00316_46020_7579.N1	18-DEC-2010 20:30:08	Dark	52.500	117	Pi Pup	2.7060	3800.0	105	46020	No
105	GOM_TRA_1PNPDE20101218_203317_000000523097_00316_46020_7580.N1	18-DEC-2010 20:33:17	Straylight	52.000	23	21Eps CMa	1.5020	26000.	104	46020	No
106	GOM_TRA_1PNPDE20101218_203501_000000523097_00316_46020_7581.N1	18-DEC-2010 20:35:01	Straylight	51.500	179	24Omi2CMa	3.0320	24000.	103	46020	No
107	GOM_TRA_1PNPDE20101218_203755_000000713097_00316_46020_7582.N1	18-DEC-2010 20:37:55	Straylight	71.000	1	9Alp CMa	-1.4400	11000.	142	46020	No
108	GOM_TRA_1PNPDE20101218_204108_000000463097_00316_46020_7583.N1	18-DEC-2010 20:41:08	Straylight	45.500	7	19Bet Ori	0.10000	14000.	91	46020	No
109	GOM_TRA_1PNPDE20101218_204317_000000473097_00316_46020_7584.N1	18-DEC-2010 20:43:17	Straylight	46.500	30	46Eps Ori	1.6940	30000.	93	46020	No
110	GOM_TRA_1PNPDE20101218_204616_000000573097_00316_46020_7585.N1	18-DEC-2010 20:46:16	Twi_and_stray	57.000	14	58Alp Ori	0.87000	3000.0	114	46020	No
111	GOM_TRA_1PNPDE20101218_204823_000000533097_00316_46020_7586.N1	18-DEC-2010 20:48:23	Twi_and_stray	53.000	13	87Alp Tau	0.86700	3800.0	106	46020	No
112	GOM_TRA_1PNPDE20101218_205023_000000413097_00316_46020_7587.N1	18-DEC-2010 20:50:23	Bright	40.500	176	23Zet Tau	3.0200	22000.	81	46020	No
113	GOM_TRA_1PNPDE20101218_205227_000000433097_00316_46020_7588.N1	18-DEC-2010 20:52:27	Bright	42.500	28	12Bet Tau	1.6500	15200.	85	46020	No
114	GOM_TRA_1PNPDE20101218_205553_000000443097_00316_46020_7589.N1	18-DEC-2010 20:55:53	Bright	43.500	107	37The Aur	2.6490	11000.	87	46020	No
115	GOM_TRA_1PNPDE20101218_205720_000000453097_00316_46020_7590.N1	18-DEC-2010 20:57:20	Bright	44.500	6	13Alp Aur	0.080000	3400.0	89	46020	No
116	GOM_TRA_1PNPDE20101218_211333_000000343097_00316_46020_7591.N1	18-DEC-2010 21:13:33	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	46020	No
117	GOM_TRA_1PNPDE20101218_211800_000000413097_00316_46020_7592.N1	18-DEC-2010 21:18:00	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	46020	No
118	GOM_TRA_1PNPDE20101218_212042_000000403097_00316_46020_7593.N1	18-DEC-2010 21:20:42	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	46020	No
119	GOM_TRA_1PNPDE20101218_212408_000000453097_00316_46020_7594.N1	18-DEC-2010 21:24:08	Bright	44.500	180	27Gam Boo	3.0400	8000.0	89	46020	No
120	GOM_TRA_1PNPDE20101218_212724_000000373097_00316_46020_7595.N1	18-DEC-2010 21:27:24	Bright	37.000	83		2.3780	11000.	74	46020	No
121	GOM_TRA_1PNPDE20101218_213048_000000423097_00316_46020_7596.N1	18-DEC-2010 21:30:48	Bright	42.000	111	8Eta Boo	2.6800	6000.0	84	46020	No
122	GOM_TRA_1PNPDE20101218_214101_000000543097_00316_46020_7587.N1	18-DEC-2010 21:41:01	Twi_and_stray	54.000	15	67Alp Vir	0.97600	28000.	108	46020	No
123	GOM_TRA_1PNPDE20101218_214431_000000483097_00316_46020_7588.N1	18-DEC-2010 21:44:31	Dark	48.000	169	46Gam Hya	2.9910	4700.0	96	46020	No
124	GOM_TRA_1PNPDE20101218_214714_000000553097_00316_46020_7589.N1	18-DEC-2010 21:47:14	Dark	54.500	106	9Bet Crv	2.6480	5600.0	109	46020	No
125	GOM_TRA_1PNPDE20101218_215144_000000423097_00316_46020_7590.N1	18-DEC-2010 21:51:44	Dark	41.500	64	Gam Cen	2.2000	10600.	83	46020	No
126	GOM_TRA_1PNPDE20101218_215324_000000433097_00317_46021_7591.N1	18-DEC-2010 21:53:24	Dark	42.500	99	Del Cen	2.5750	26000.	85	46021	No
127	GOM_TRA_1PNPDE20101218_215722_000000473097_00317_46021_7592.N1	18-DEC-2010 21:57:22	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	46021	No
128	GOM_TRA_1PNPDE20101218_220057_000000423097_00317_46021_7593.N1	18-DEC-2010 22:00:57	Dark	42.000	71	Iot Car	2.2460	7700.0	84	46021	No
129	GOM_TRA_1PNPDE20101218_220538_000000473097_00317_46021_7594.N1	18-DEC-2010 22:05:38	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	46021	No
130	GOM_TRA_1PNPDE20101218_220747_000000533097_00317_46021_7595.N1	18-DEC-2010 22:07:47	Dark	52.500	70	Zet Pup	2.2460	39000.	105	46021	No

131	GOM_TRA_1PNPDE20101218_221022_000000573097_00317_46021_7596.N1	18-DEC-2010 22:10:22	Dark	56.500	117	Pi Pup	2.7060	3800.0	113	46021	No
132	GOM_TRA_1PNPDE20101218_221331_000000543097_00317_46021_7597.N1	18-DEC-2010 22:13:31	Straylight	54.000	23	21Eps CMa	1.5020	26000.	108	46021	No
133	GOM_TRA_1PNPDE20101218_221515_000000513097_00317_46021_7598.N1	18-DEC-2010 22:15:15	Straylight	51.000	179	24Omi2CMa	3.0320	24000.	102	46021	No
134	GOM_TRA_1PNPDE20101218_221809_000000693097_00317_46021_7599.N1	18-DEC-2010 22:18:09	Straylight	69.000	1	9Alp CMa	-1.4400	11000.	138	46021	No
135	GOM_TRA_1PNPDE20101218_222122_000000553097_00317_46021_7600.N1	18-DEC-2010 22:21:22	Straylight	54.500	7	19Bet Ori	0.10000	14000.	109	46021	No
136	GOM_TRA_1PNPDE20101218_222331_000000483097_00317_46021_7601.N1	18-DEC-2010 22:23:31	Straylight	48.000	30	46Eps Ori	1.6940	30000.	96	46021	No
137	GOM_TRA_1PNPDE20101218_222630_000000593097_00317_46021_7602.N1	18-DEC-2010 22:26:30	Twilight_stray	58.500	14	58Alp Ori	0.87000	3000.0	117	46021	No
138	GOM_TRA_1PNPDE20101218_222837_000000483097_00317_46021_7603.N1	18-DEC-2010 22:28:37	Twilight_stray	47.500	13	87Alp Tau	0.86700	3800.0	95	46021	No
139	GOM_TRA_1PNPDE20101218_223037_000000423097_00317_46021_7604.N1	18-DEC-2010 22:30:37	Bright	41.500	176	23Zet Tau	3.0200	22000.	83	46021	No
140	GOM_TRA_1PNPDE20101218_223240_000000423097_00317_46021_7605.N1	18-DEC-2010 22:32:40	Bright	41.500	28	12Bet Tau	1.6500	15200.	83	46021	No
141	GOM_TRA_1PNPDE20101218_223606_000000433097_00317_46021_7606.N1	18-DEC-2010 22:36:06	Bright	42.500	107	37The Aur	2.6490	11000.	85	46021	No
142	GOM_TRA_1PNPDE20101218_223734_000000433097_00317_46021_7607.N1	18-DEC-2010 22:37:34	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	46021	No
143	GOM_TRA_1PNPDE20101218_225347_000000383097_00317_46021_7608.N1	18-DEC-2010 22:53:47	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	46021	No
144	GOM_TRA_1PNPDE20101218_225814_000000453097_00317_46021_7609.N1	18-DEC-2010 22:58:14	Bright	45.000	32	77Eps UMa	1.7630	11000.	90	46021	No
145	GOM_TRA_1PNPDE20101218_230055_000000593097_00317_46021_7610.N1	18-DEC-2010 23:00:55	Bright	59.000	39	85Eta UMa	1.8540	24000.	118	46021	No
146	GOM_TRA_1PNPDE20101218_230422_000000543097_00317_46021_7611.N1	18-DEC-2010 23:04:22	Bright	53.500	180	27Gam Boo	3.0400	8000.0	107	46021	No
147	GOM_TRA_1PNPDE20101218_230738_000000553097_00317_46021_7612.N1	18-DEC-2010 23:07:38	Bright	55.000	83		2.3780	11000.	110	46021	No
148	GOM_TRA_1PNPDE20101218_231103_000000623097_00317_46021_7613.N1	18-DEC-2010 23:11:03	Bright	62.000	111	8Eta Boo	2.6800	6000.0	124	46021	No
149	GOM_TRA_1PNPDE20101218_232116_000000583097_00317_46021_7616.N1	18-DEC-2010 23:21:16	Twilight_stray	57.500	15	67Alp Vir	0.97600	28000.	115	46021	No
150	GOM_TRA_1PNPDE20101218_232446_000000463097_00317_46021_7617.N1	18-DEC-2010 23:24:46	Dark	46.000	169	46Gam Hya	2.9910	4700.0	92	46021	No
151	GOM_TRA_1PNPDE20101218_232729_000000603097_00317_46021_7618.N1	18-DEC-2010 23:27:29	Dark	60.000	106	9Bet Crv	2.6480	5600.0	120	46021	No
152	GOM_TRA_1PNPDE20101218_233159_000000423097_00317_46021_7619.N1	18-DEC-2010 23:31:59	Dark	41.500	64	Gam Cen	2.2000	10600.	83	46021	No
153	GOM_TRA_1PNPDE20101218_233339_000000413097_00318_46022_7620.N1	18-DEC-2010 23:33:39	Dark	40.500	99	Del Cen	2.5750	26000.	81	46022	No
154	GOM_TRA_1PNPDE20101218_233736_000000463097_00318_46022_7621.N1	18-DEC-2010 23:37:36	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	46022	No
155	GOM_TRA_1PNPDE20101218_234112_000000413097_00318_46022_7622.N1	18-DEC-2010 23:41:12	Dark	40.500	71	lot Car	2.2460	7700.0	81	46022	No
156	GOM_TRA_1PNPDE20101218_234553_000000483097_00318_46022_7623.N1	18-DEC-2010 23:45:53	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	46022	No
157	GOM_TRA_1PNPDE20101218_234802_000000533097_00318_46022_7624.N1	18-DEC-2010 23:48:02	Dark	53.000	70	Zet Pup	2.2460	39000.	106	46022	No
158	GOM_TRA_1PNPDE20101218_235037_000000513097_00318_46022_7625.N1	18-DEC-2010 23:50:37	Dark	50.500	117	Pi Pup	2.7060	3800.0	101	46022	No
159	GOM_TRA_1PNPDE20101218_235345_000000513097_00318_46022_7626.N1	18-DEC-2010 23:53:45	Straylight	50.500	23	21Eps CMa	1.5020	26000.	101	46022	No
160	GOM_TRA_1PNPDE20101218_235529_000000523097_00318_46022_7627.N1	18-DEC-2010 23:55:29	Straylight	51.500	179	24Omi2CMa	3.0320	24000.	103	46022	No
161	GOM_TRA_1PNPDE20101218_235823_000000583097_00318_46022_7628.N1	18-DEC-2010 23:58:23	Straylight	57.500	1	9Alp CMa	-1.4400	11000.	115	46022	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.

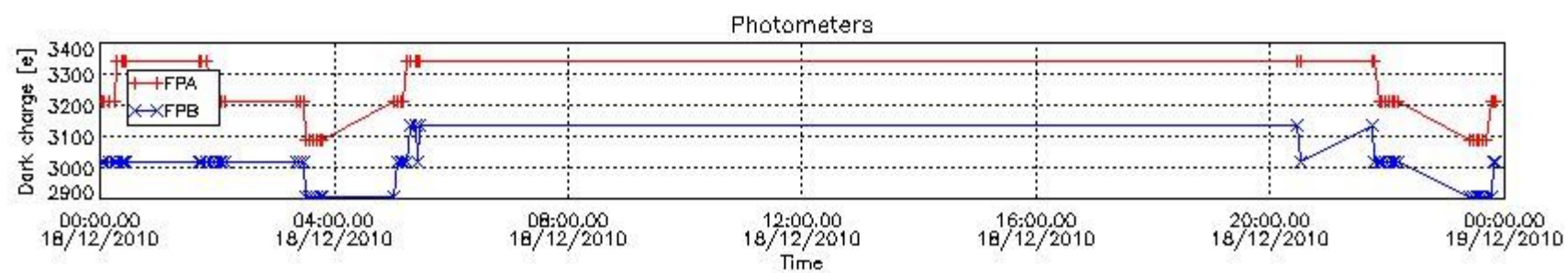
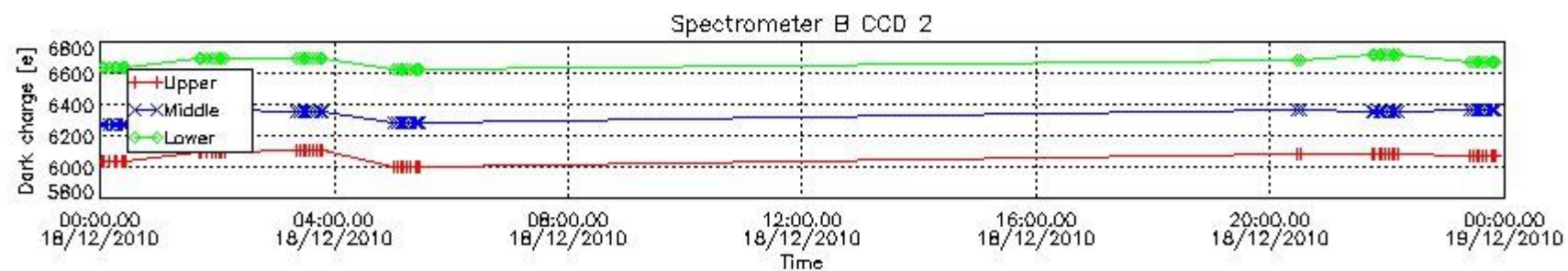
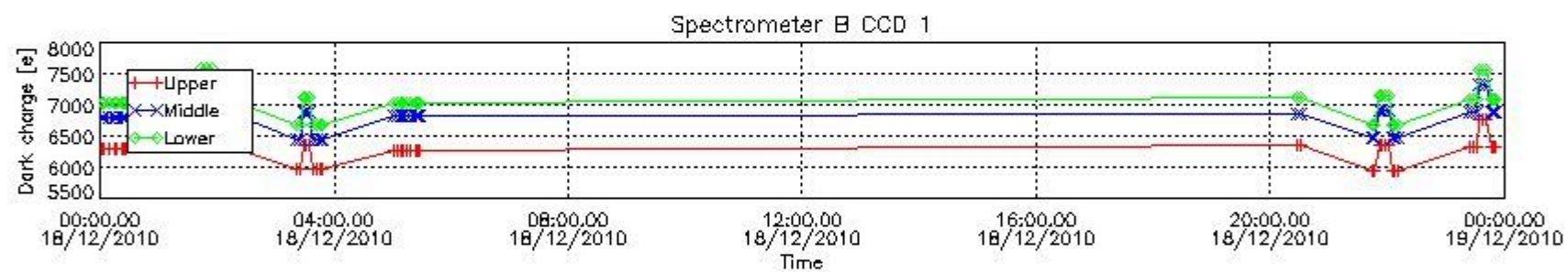
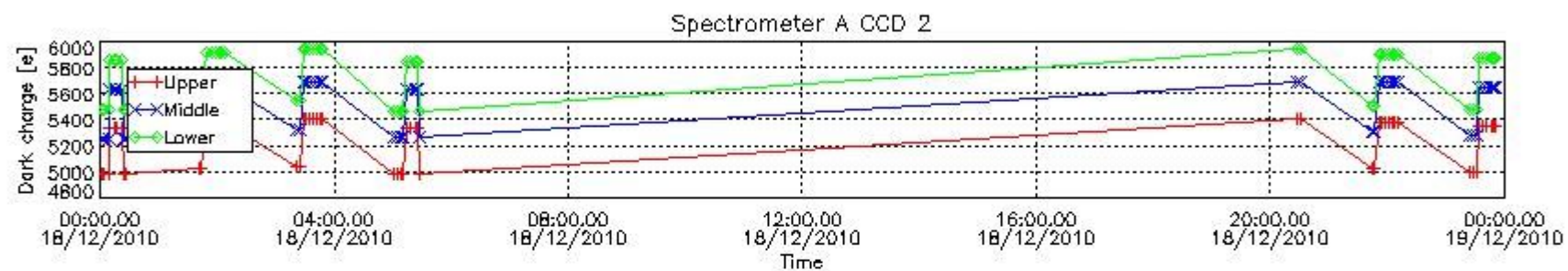
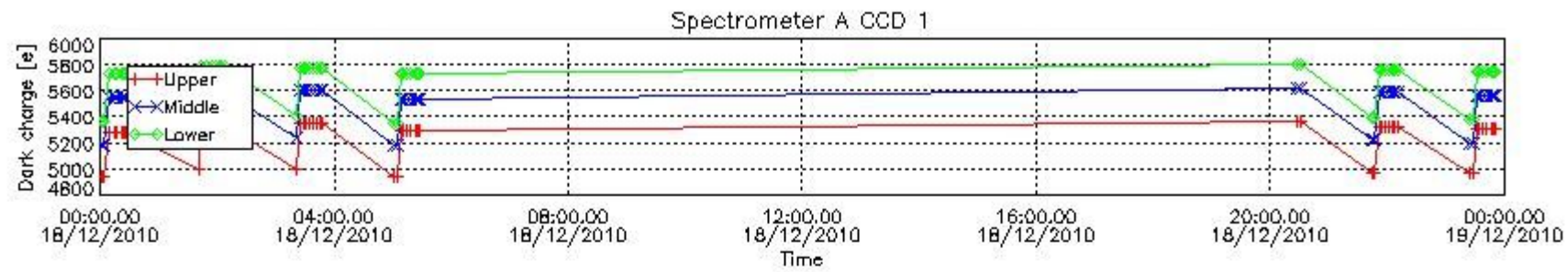
##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20101218_202524_000000533097_00316_46020_7577.N1	DC map with no T dep.
GOM_TRA_1PNPDE20101218_202732_000000543097_00316_46020_7578.N1	DC map used
GOM_TRA_1PNPDE20101218_203008_000000533097_00316_46020_7579.N1	DC map used
GOM_TRA_1PNPDE20101218_203317_000000523097_00316_46020_7580.N1	DC map used
GOM_TRA_1PNPDE20101218_203501_000000523097_00316_46020_7581.N1	DC map used
GOM_TRA_1PNPDE20101218_203755_000000713097_00316_46020_7582.N1	DC map used
GOM_TRA_1PNPDE20101218_204108_000000463097_00316_46020_7583.N1	DC map used
GOM_TRA_1PNPDE20101218_204317_000000473097_00316_46020_7584.N1	DC map used
GOM_TRA_1PNPDE20101218_204616_000000573097_00316_46020_7585.N1	DC map used
GOM_TRA_1PNPDE20101218_204823_000000533097_00316_46020_7586.N1	DC map used
GOM_TRA_1PNPDE20101218_205023_000000413097_00316_46020_7587.N1	DC map used
GOM_TRA_1PNPDE20101218_205227_000000433097_00316_46020_7588.N1	DC map used
GOM_TRA_1PNPDE20101218_205553_000000443097_00316_46020_7589.N1	DC map used
GOM_TRA_1PNPDE20101218_205720_000000453097_00316_46020_7590.N1	DC map used



GOM_TRA_1PNPDE20101218_211333_000000343097_00316_46020_7591.N1	DC map used
GOM_TRA_1PNPDE20101218_211800_000000413097_00316_46020_7592.N1	DC map used
GOM_TRA_1PNPDE20101218_212042_000000403097_00316_46020_7593.N1	DC map used
GOM_TRA_1PNPDE20101218_212408_000000453097_00316_46020_7594.N1	DC map used
GOM_TRA_1PNPDE20101218_212724_000000373097_00316_46020_7595.N1	DC map used
GOM_TRA_1PNPDE20101218_213048_000000423097_00316_46020_7596.N1	DC map used

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



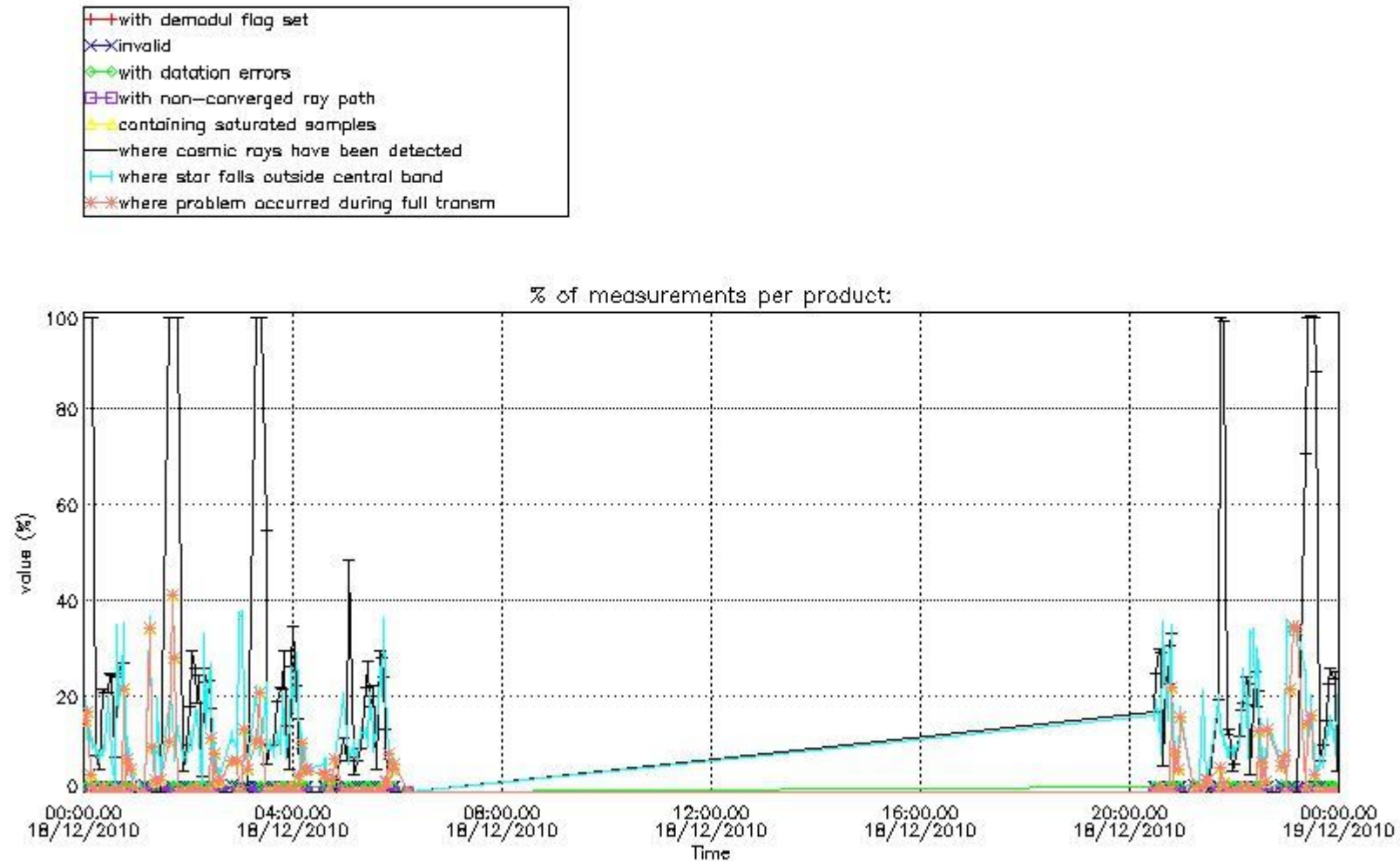
## 5. Demodulation flag and quality information monitoring

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:

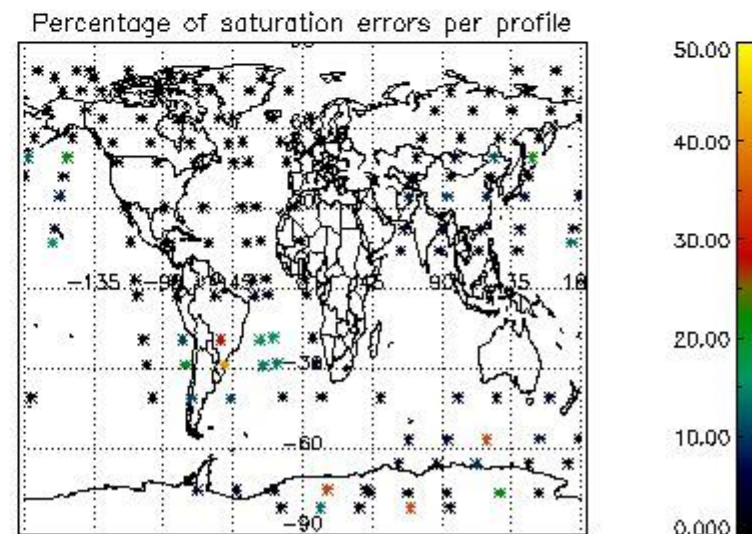
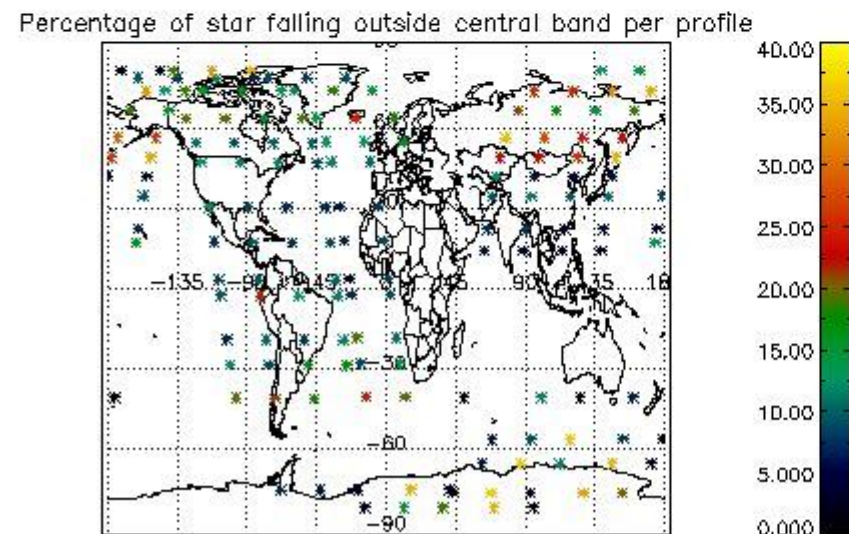
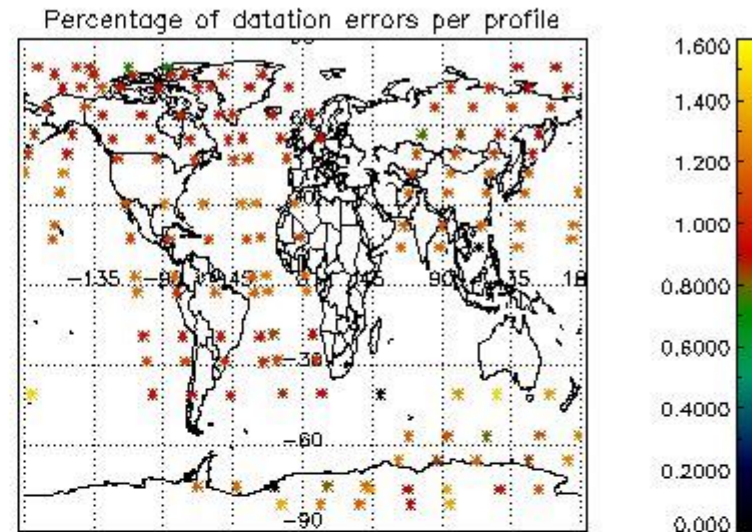
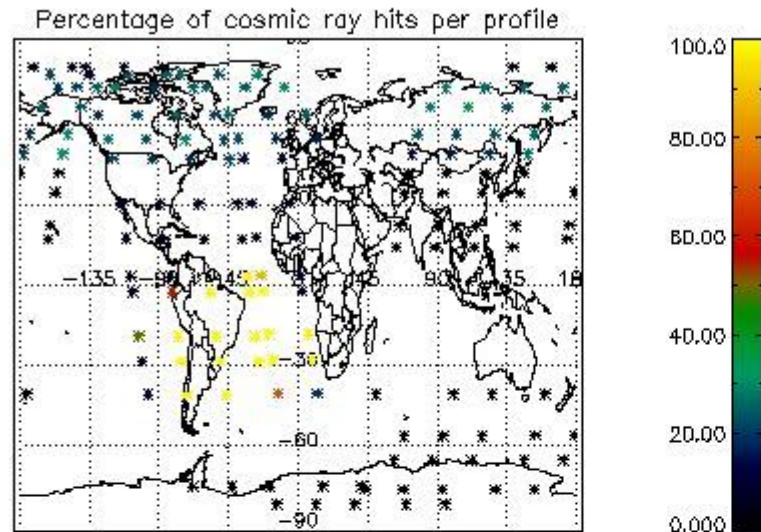
At least one measurement with demodulation flag set:	63.5220 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





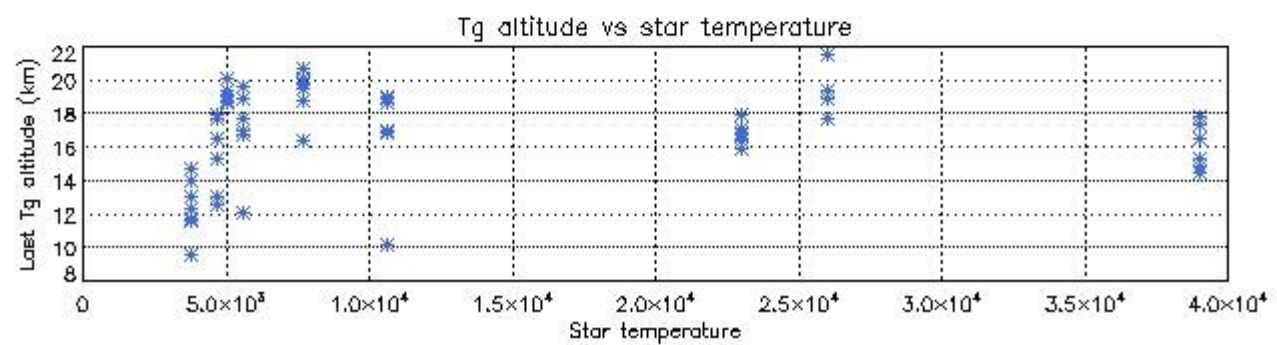
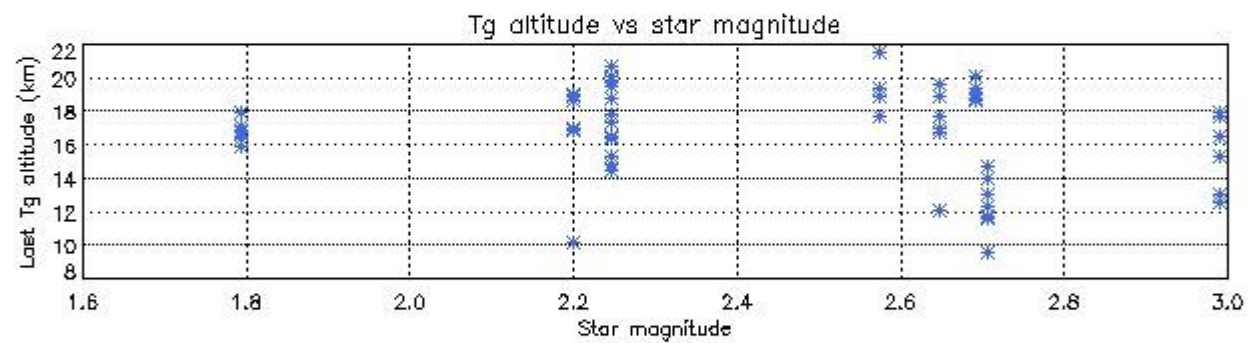
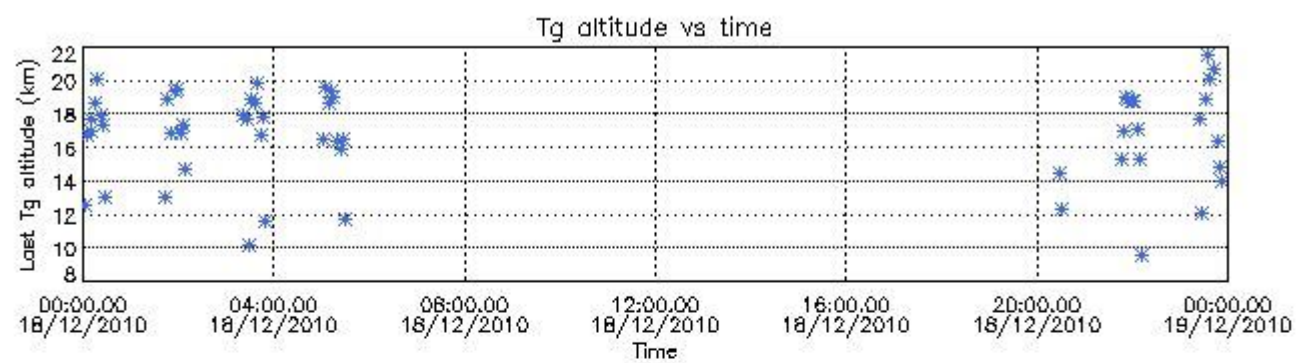
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.781	18.368	NaN
St. deviation:	2.7747	6.4559	NaN
Maximum:	21.532	28.557	NaN
Minimum:	9.6145	3.5261	NaN
Number of data:	55.000	53.000	NaN

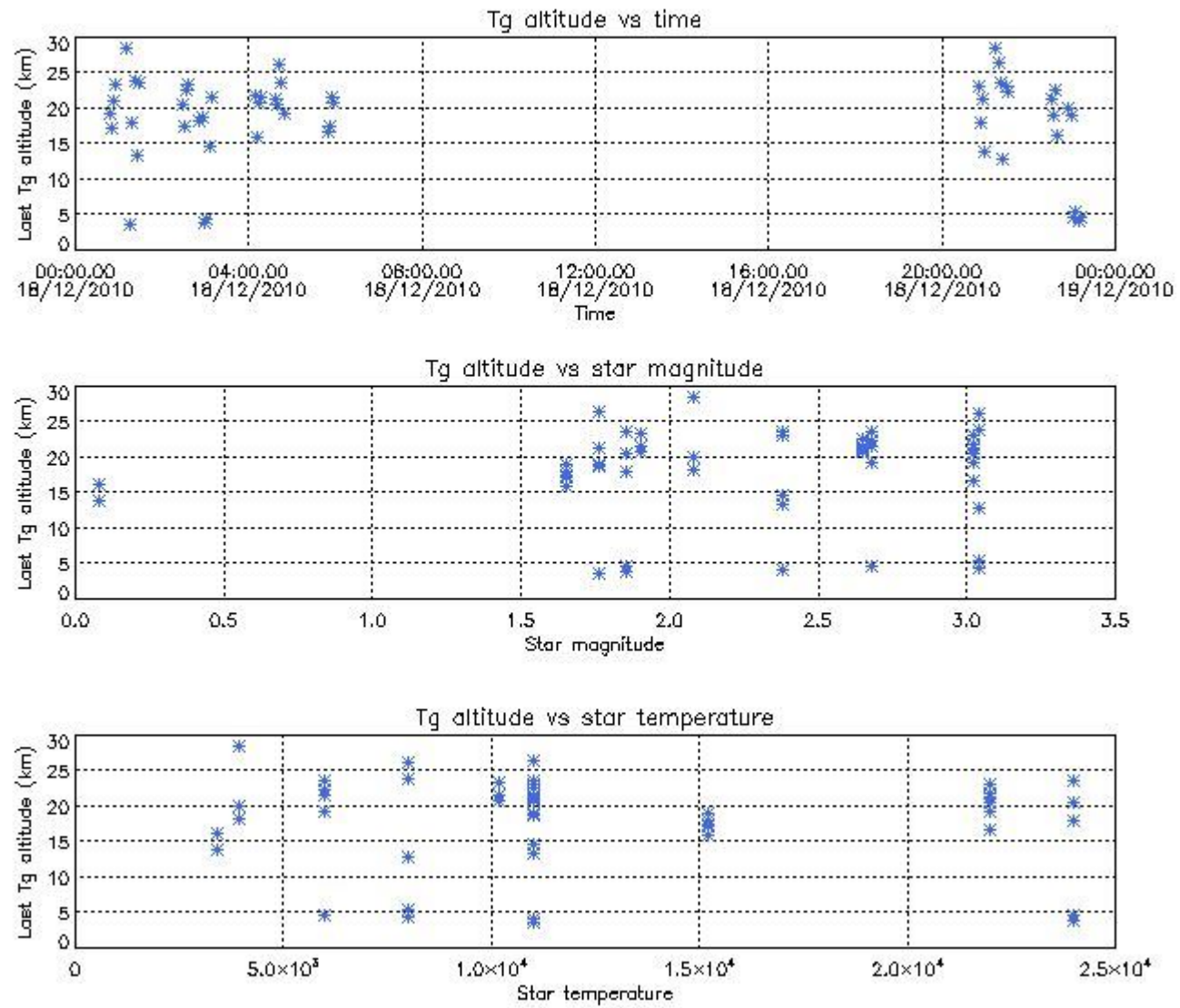
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



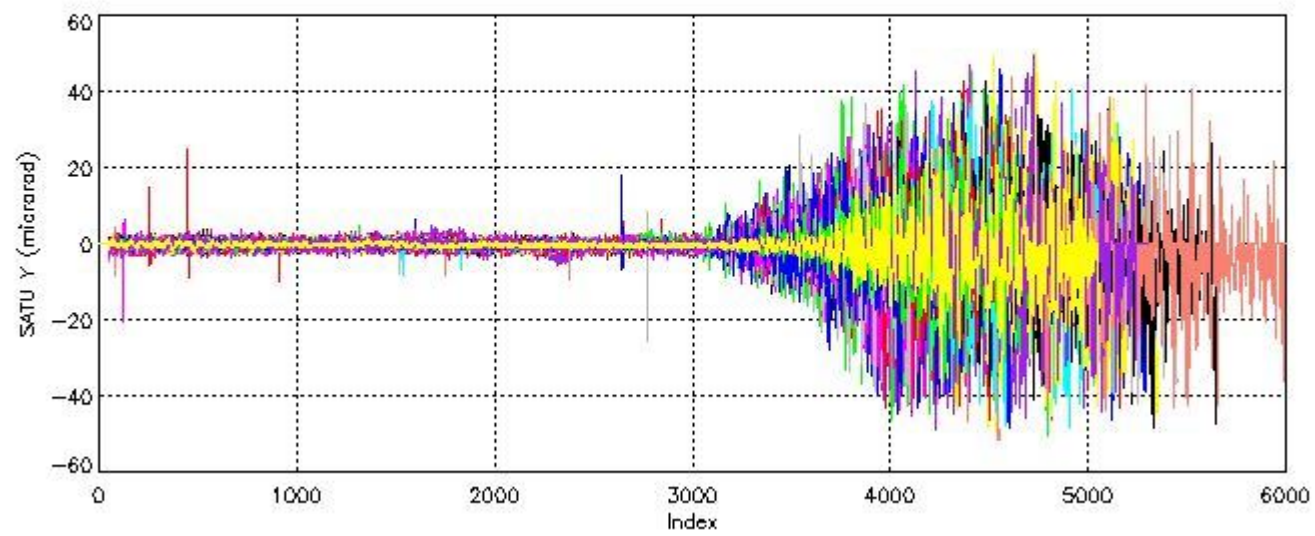
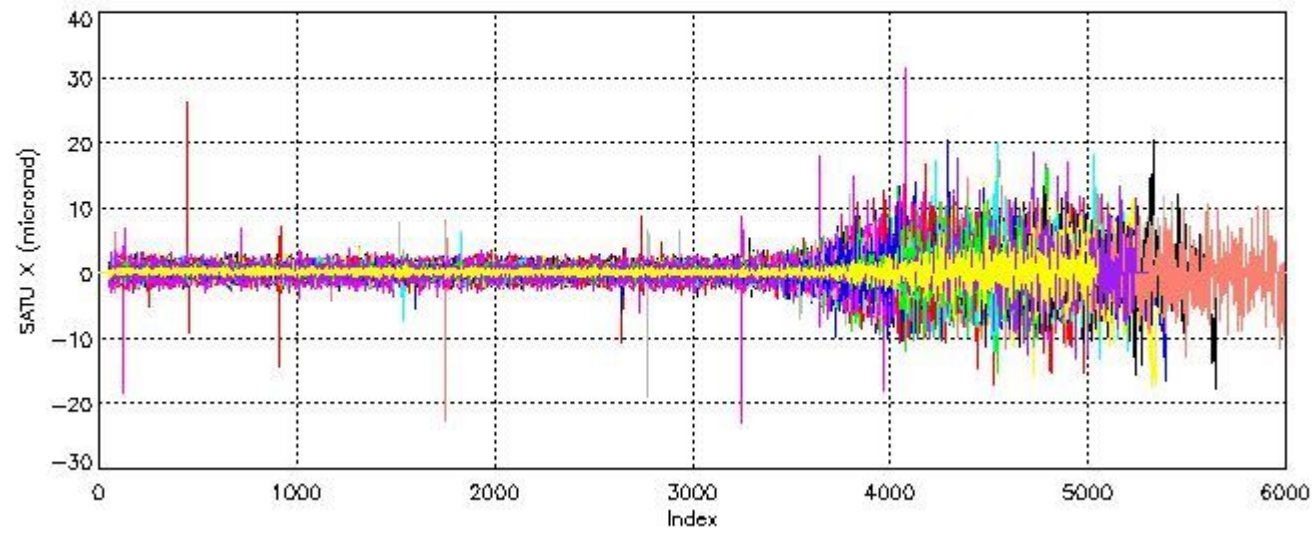
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.20371	-0.28995	0.16045	-0.22775
St. deviation:	0.63413	0.74796	0.86340	0.99338
Maximum:	26.100	24.600	5.3000	6.3000
Minimum:	-18.400	-20.400	-4.9000	-6.3000

Number of data:	61050.	61050.	51100.	51100.
-----------------	--------	--------	--------	--------

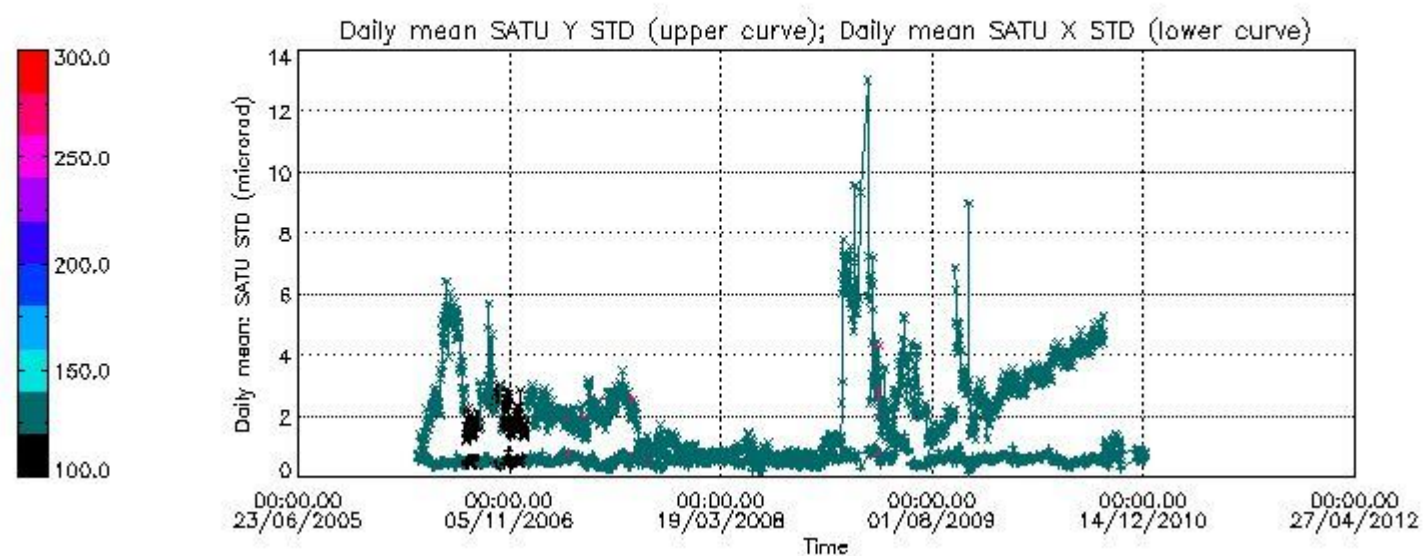
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

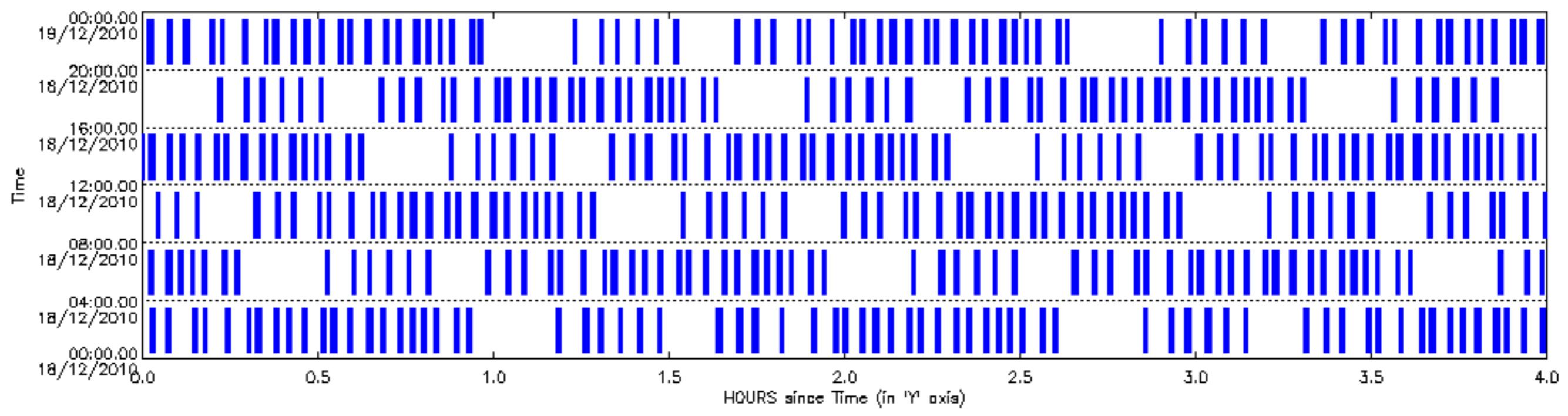
Lower curve: STD of SATU X axis



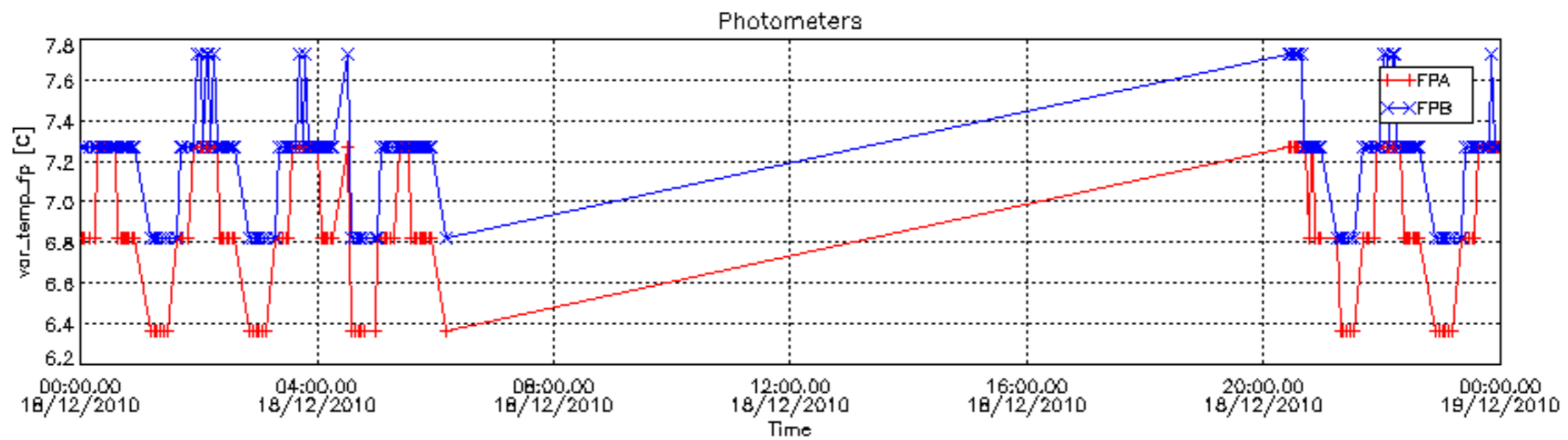
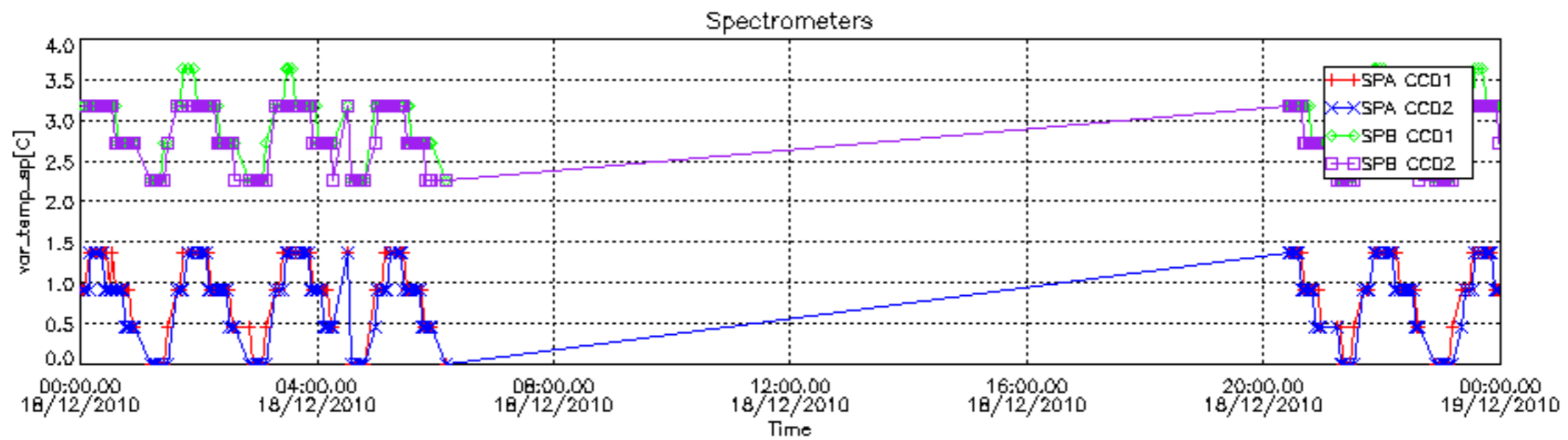
### 8. Auxiliary Data Files used for the production reported in section 2.4

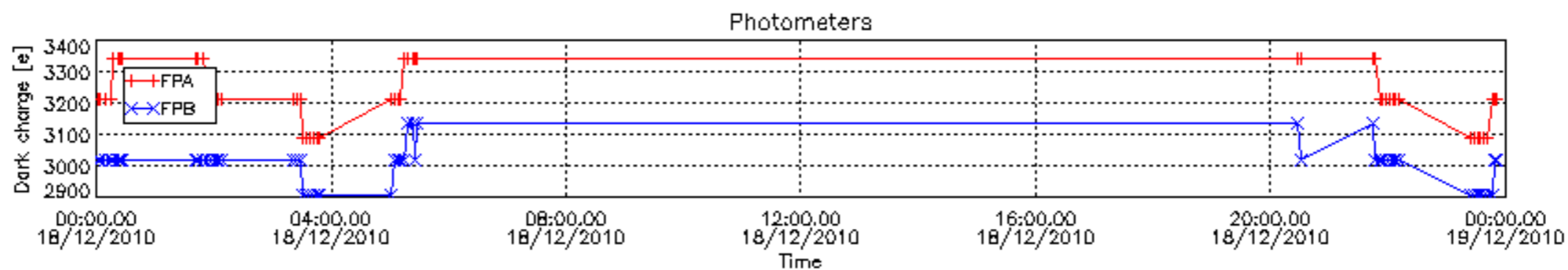
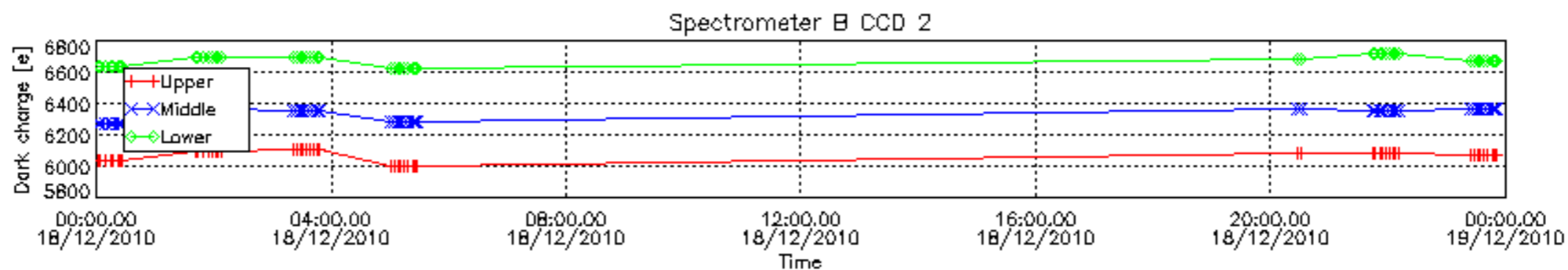
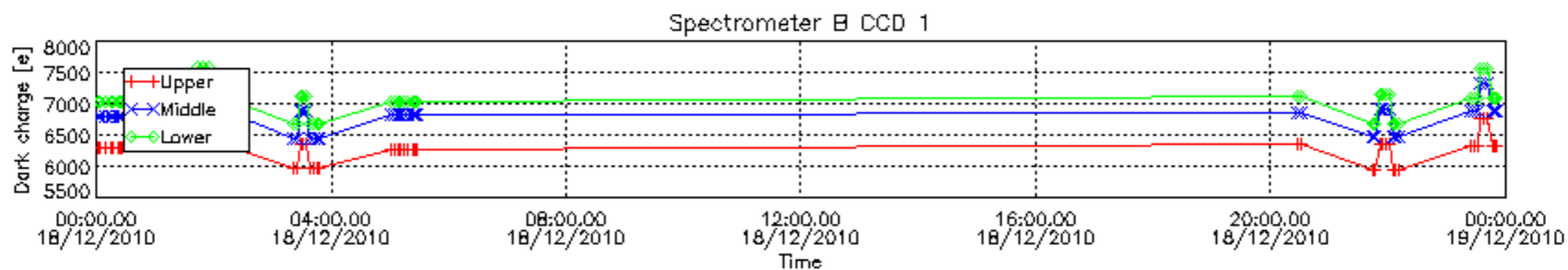
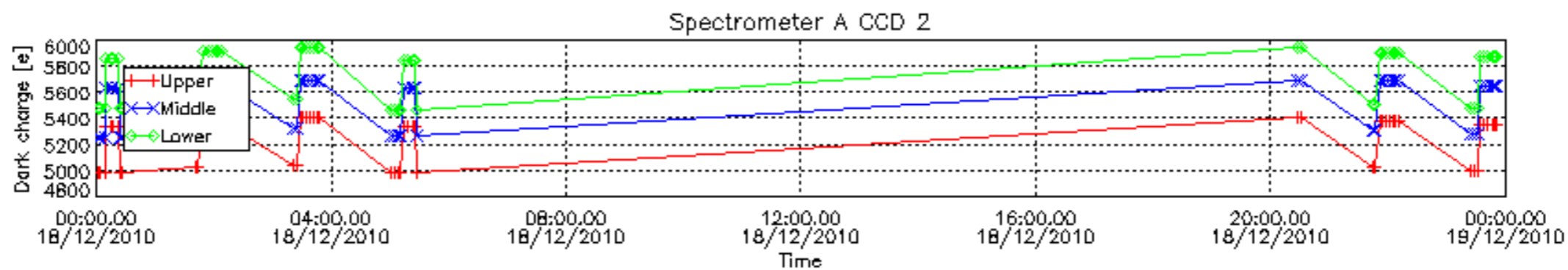
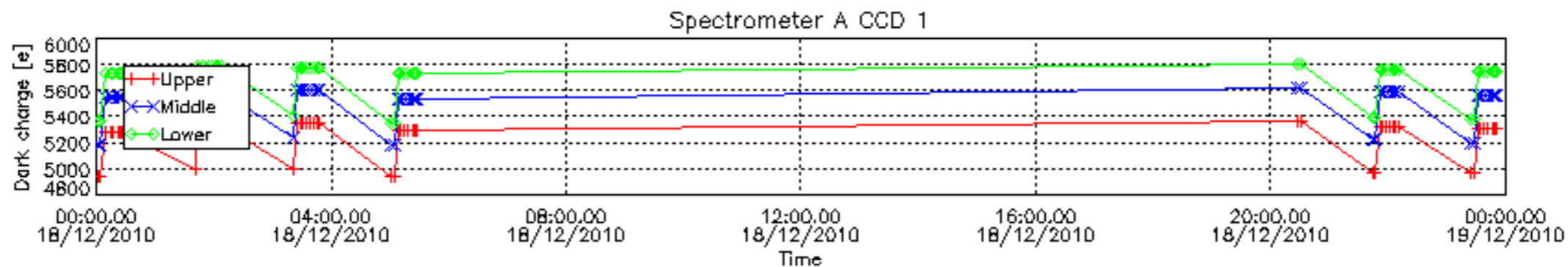
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

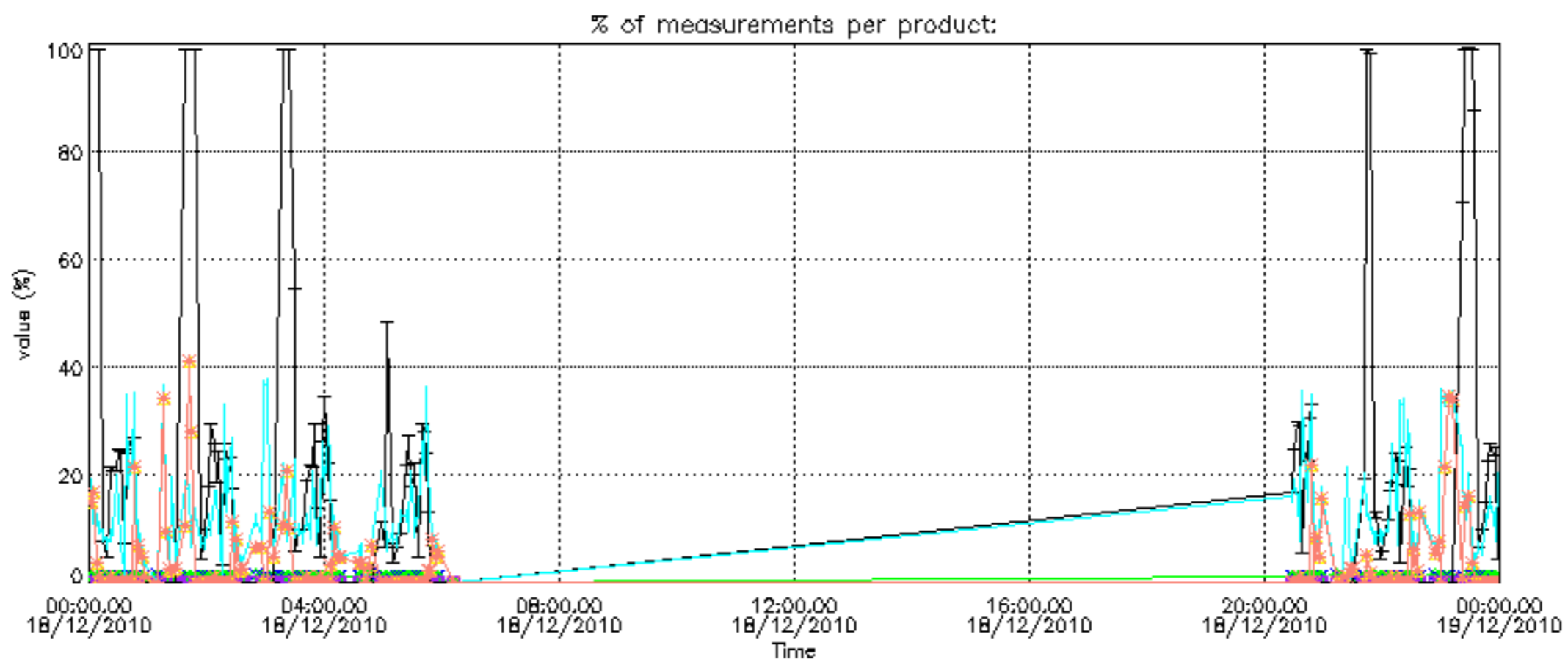
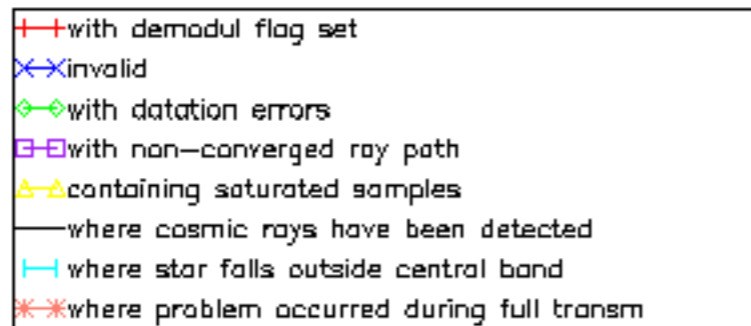
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101214_130634_20101212_000000_20500101_000000	1	18-DEC-2010 00:01:18
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	18-DEC-2010 00:01:18
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-DEC-2010 00:01:18
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	18-DEC-2010 00:01:18
ECMWF_FILE	AUX_ECF_AXNECM20101217_054117_20101217_210000_20101218_090000	1	18-DEC-2010 00:01:18
ECMWF_FILE	AUX_ECF_AXNECM20101218_054113_20101218_150000_20101219_030000	102	18-DEC-2010 20:25:24
ECMWF_FILE	AUX_ECF_AXNECM20101218_060113_20101218_210000_20101219_090000	122	18-DEC-2010 21:41:01
OPTIONAL_ECMWF_FILE	MISSING	1	18-DEC-2010 00:01:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101217_235706_000054193097_00303_46007_2149.N1	1	18-DEC-2010 00:01:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101218_013244_000041443097_00304_46008_2150.N1	27	18-DEC-2010 01:38:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101218_024707_000057383097_00305_46009_2151.N1	47	18-DEC-2010 02:50:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101218_042804_000057383097_00306_46010_2152.N1	74	18-DEC-2010 04:31:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101218_202426_000041443097_00316_46020_2153.N1	102	18-DEC-2010 20:25:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101218_213850_000057383097_00316_46020_2154.N1	122	18-DEC-2010 21:41:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101218_231947_000057383097_00317_46021_2155.N1	149	18-DEC-2010 23:21:16





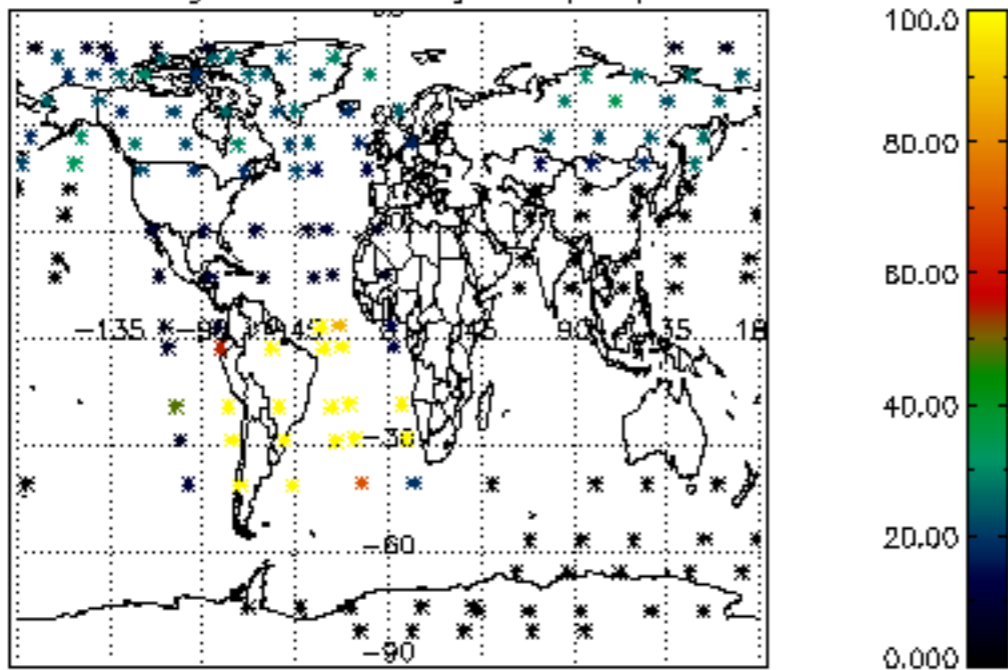




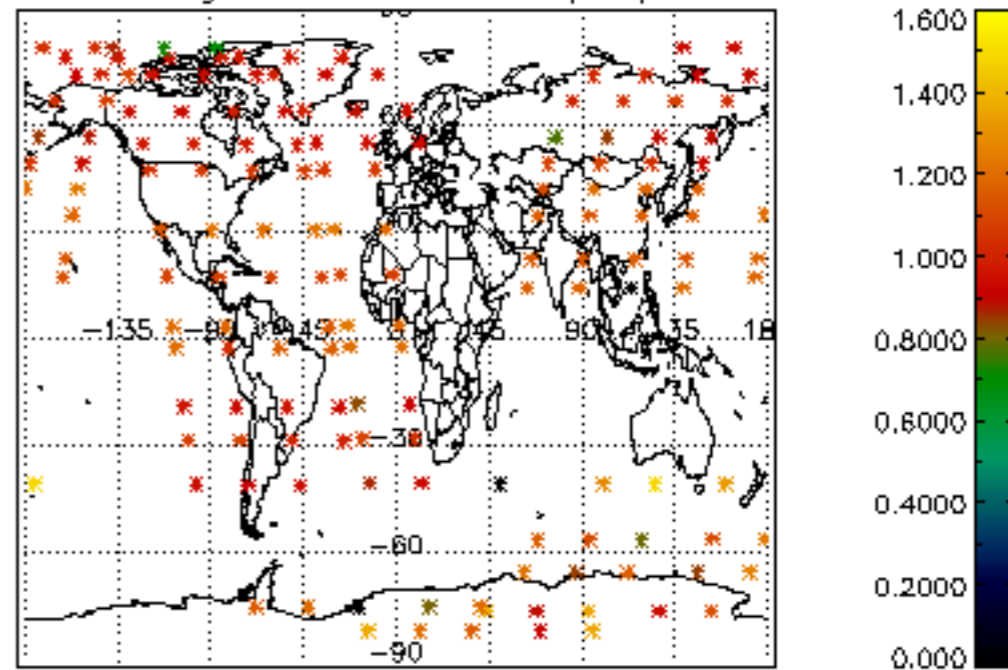




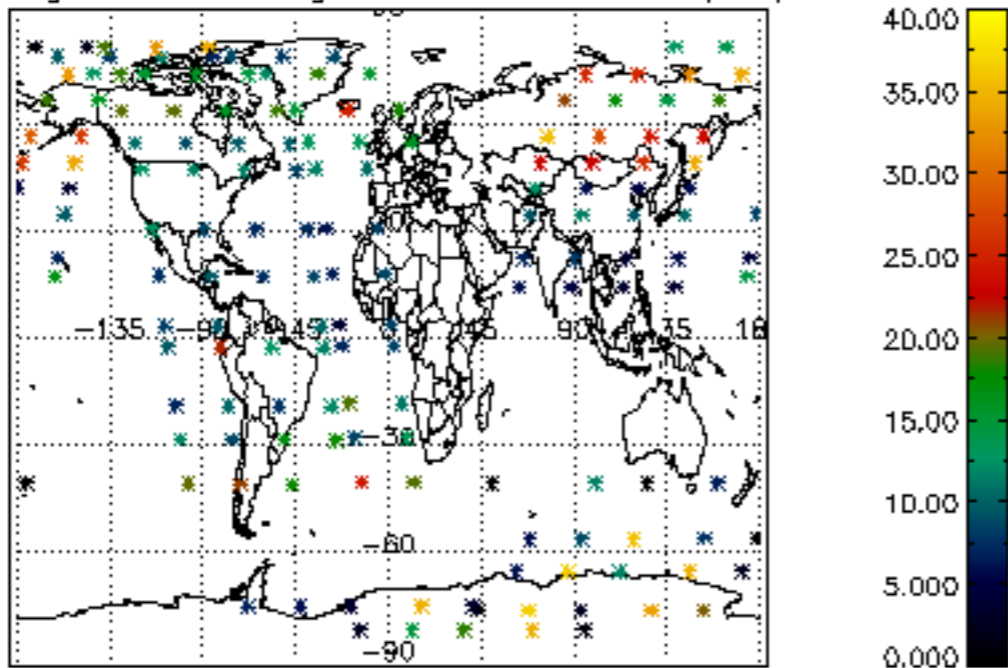
Percentage of cosmic ray hits per profile



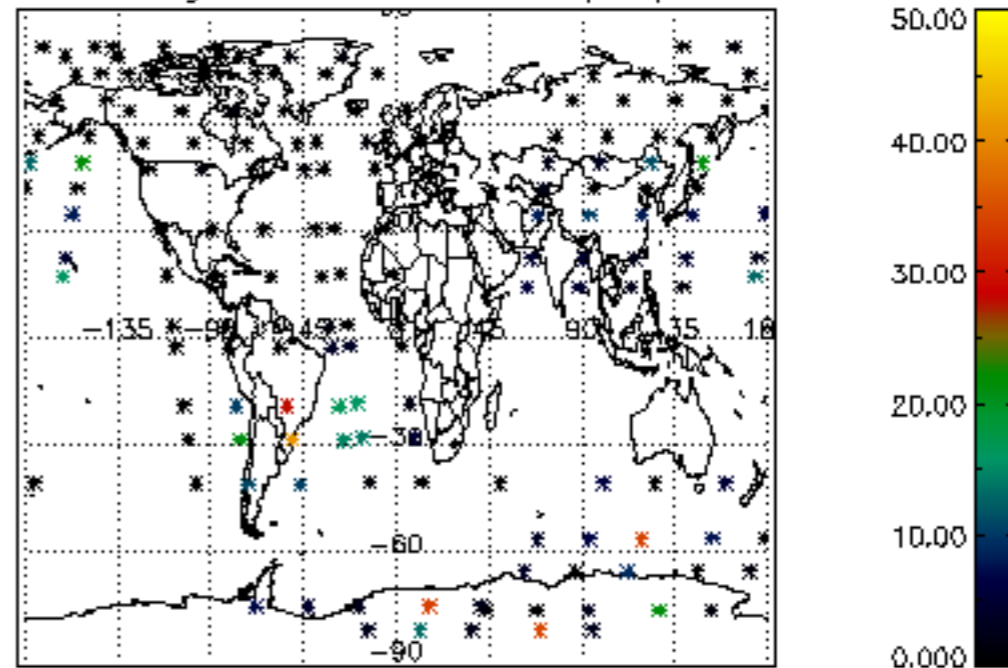
Percentage of datation errors per profile



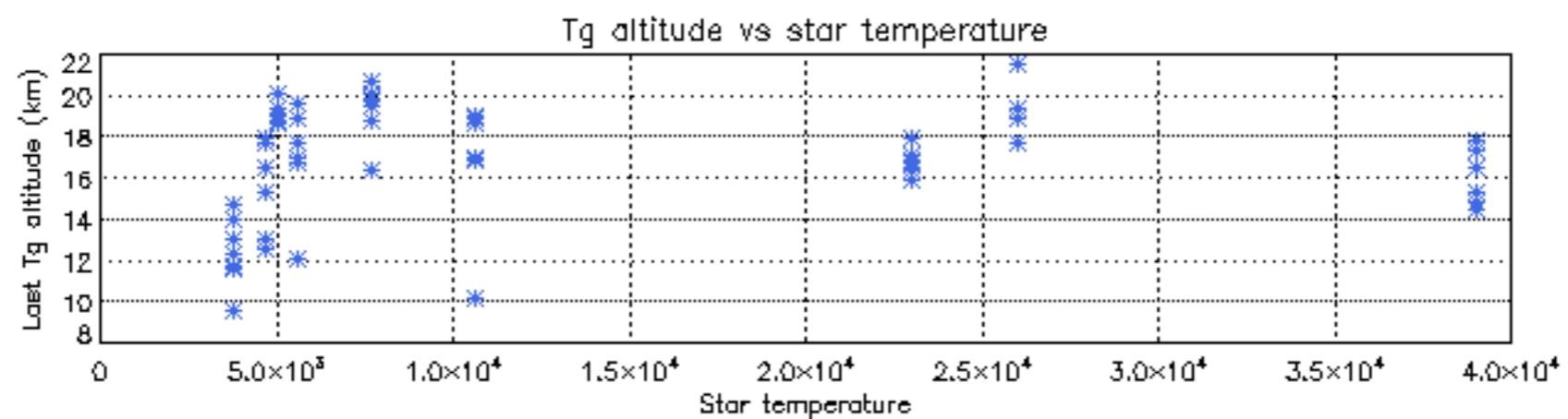
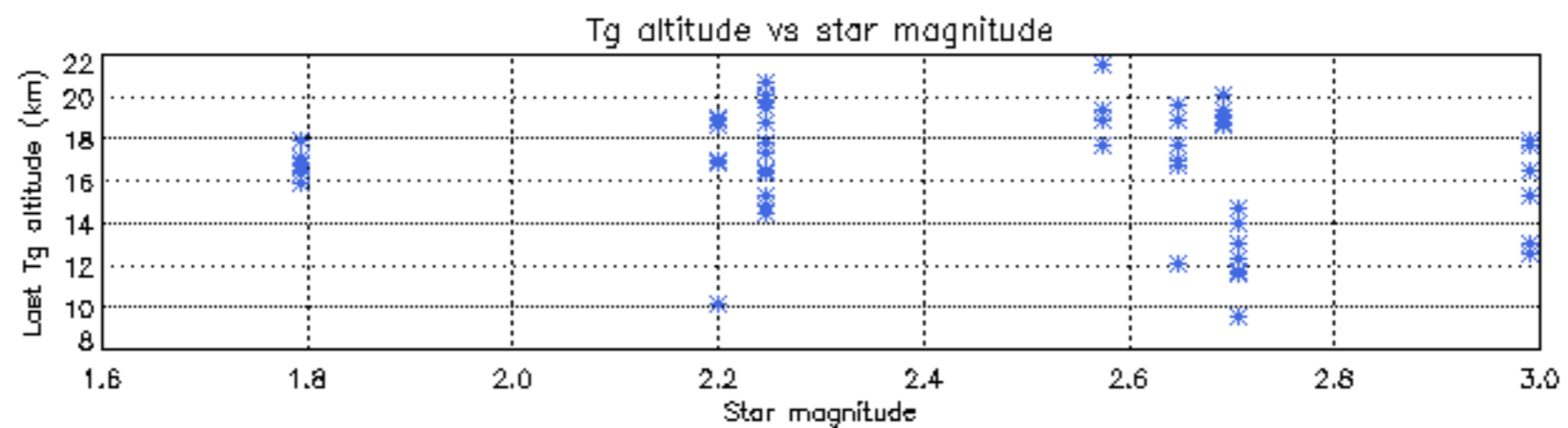
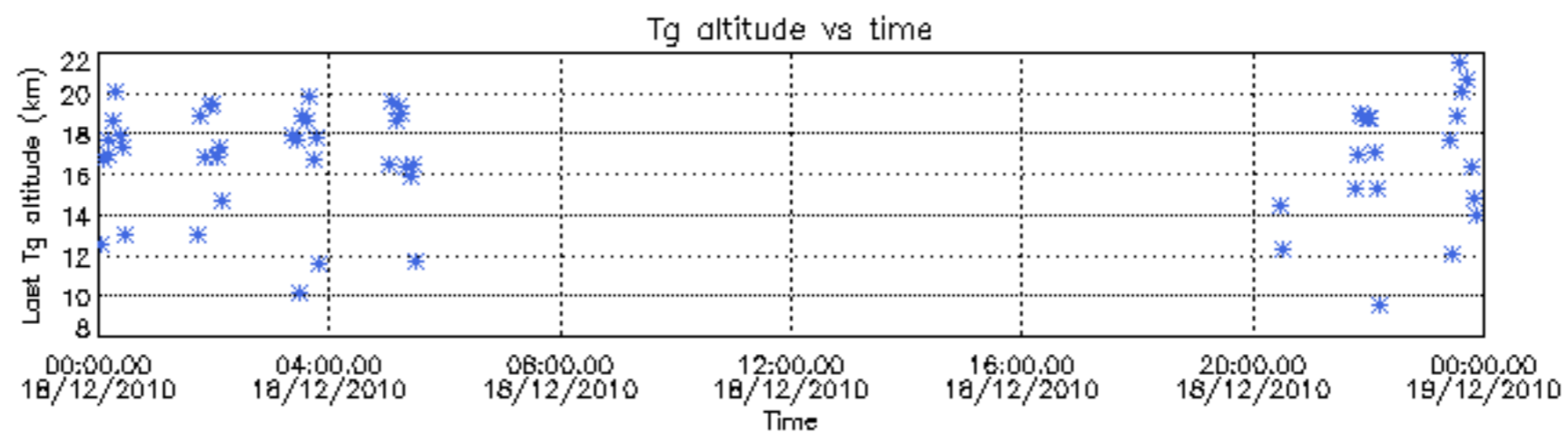
Percentage of star falling outside central band per profile



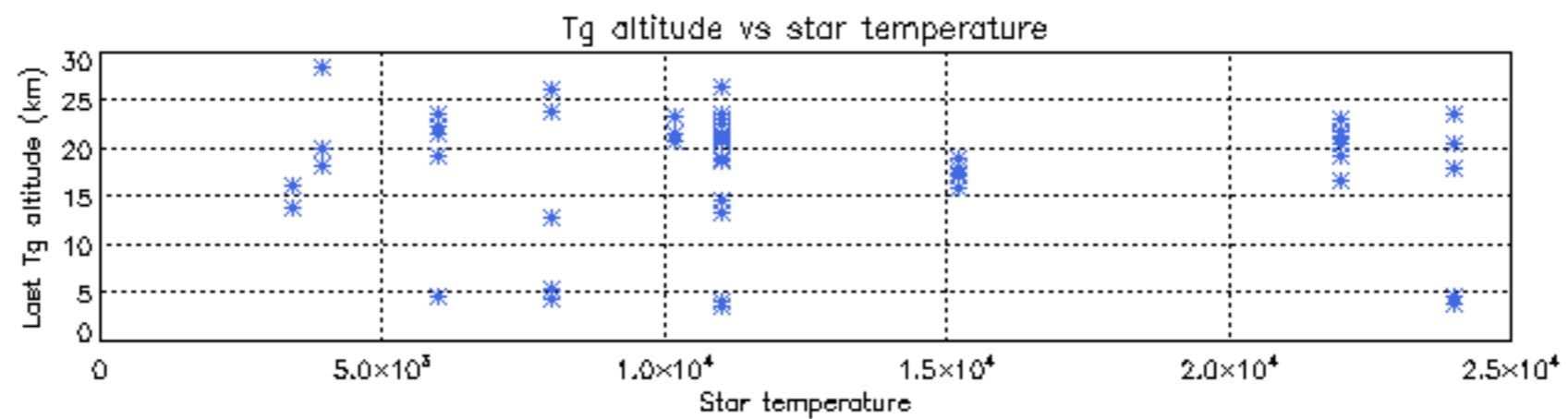
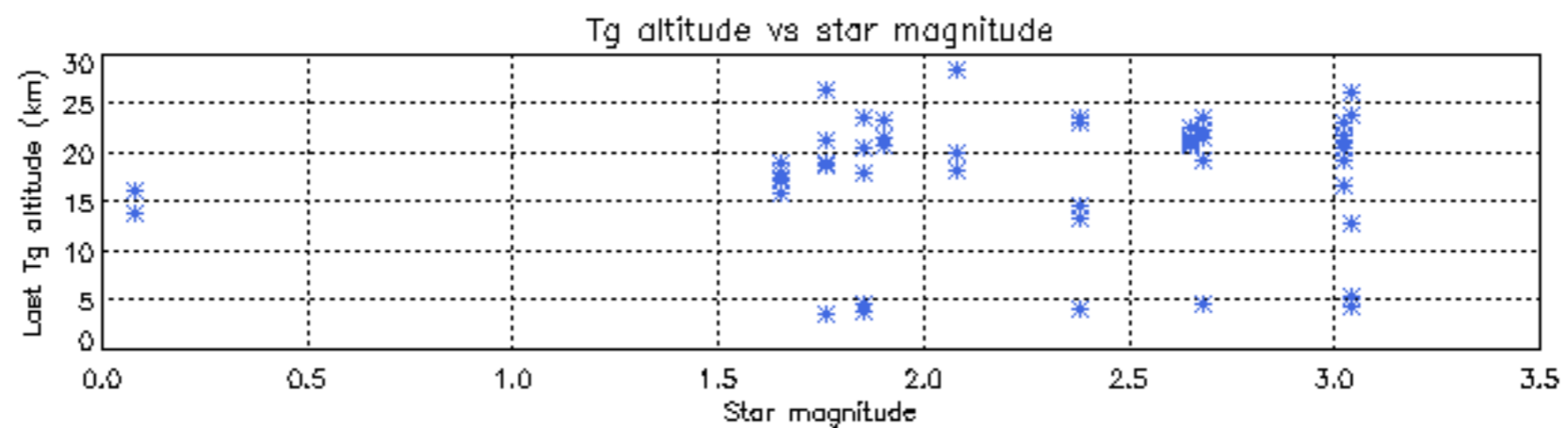
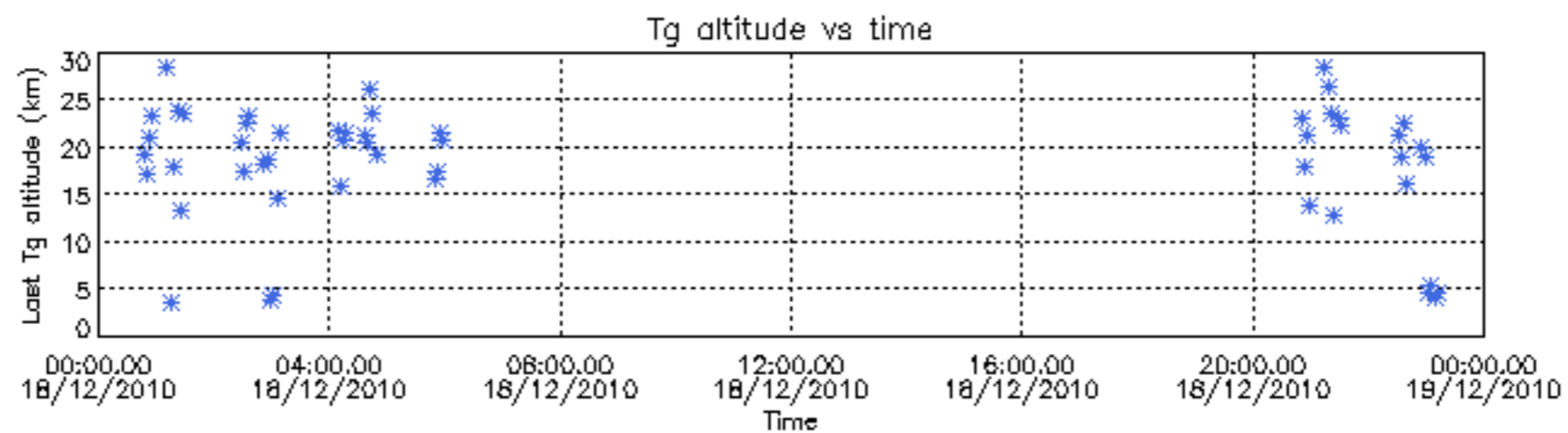
Percentage of saturation errors per profile

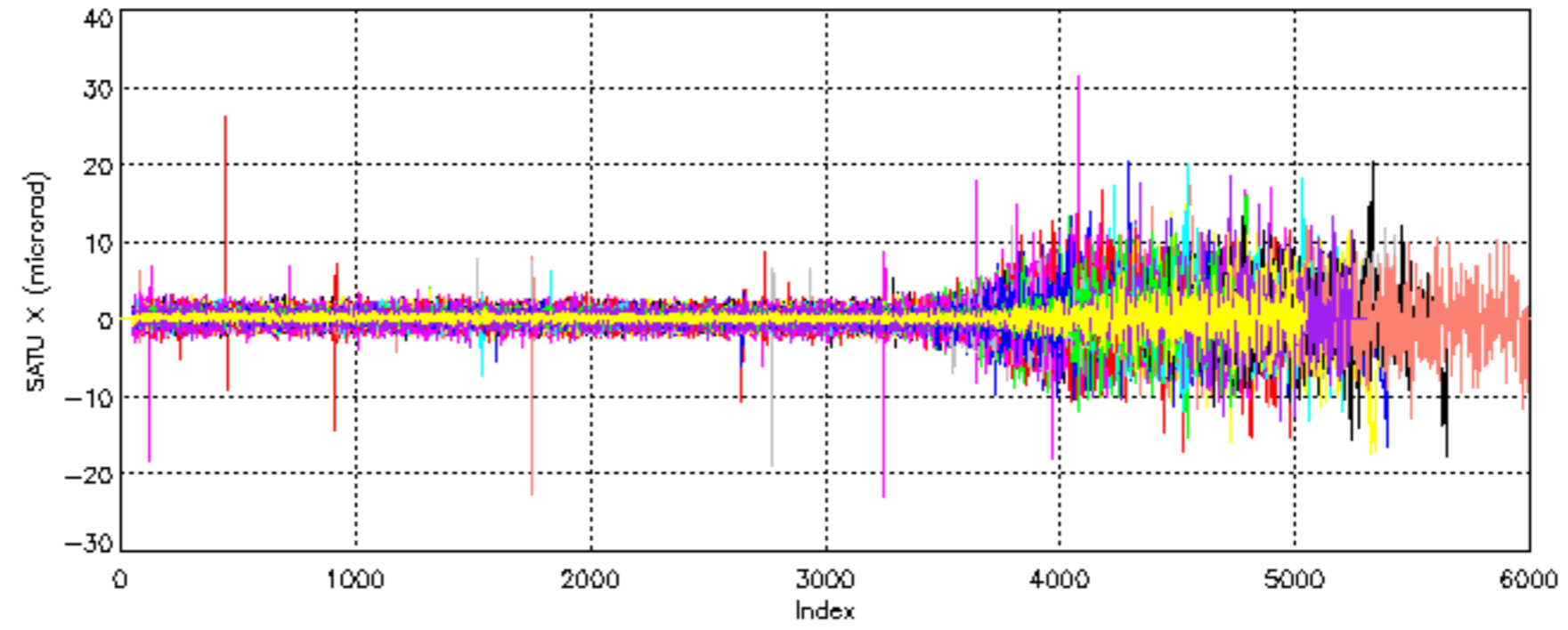


Tangent altitude at which the star is lost

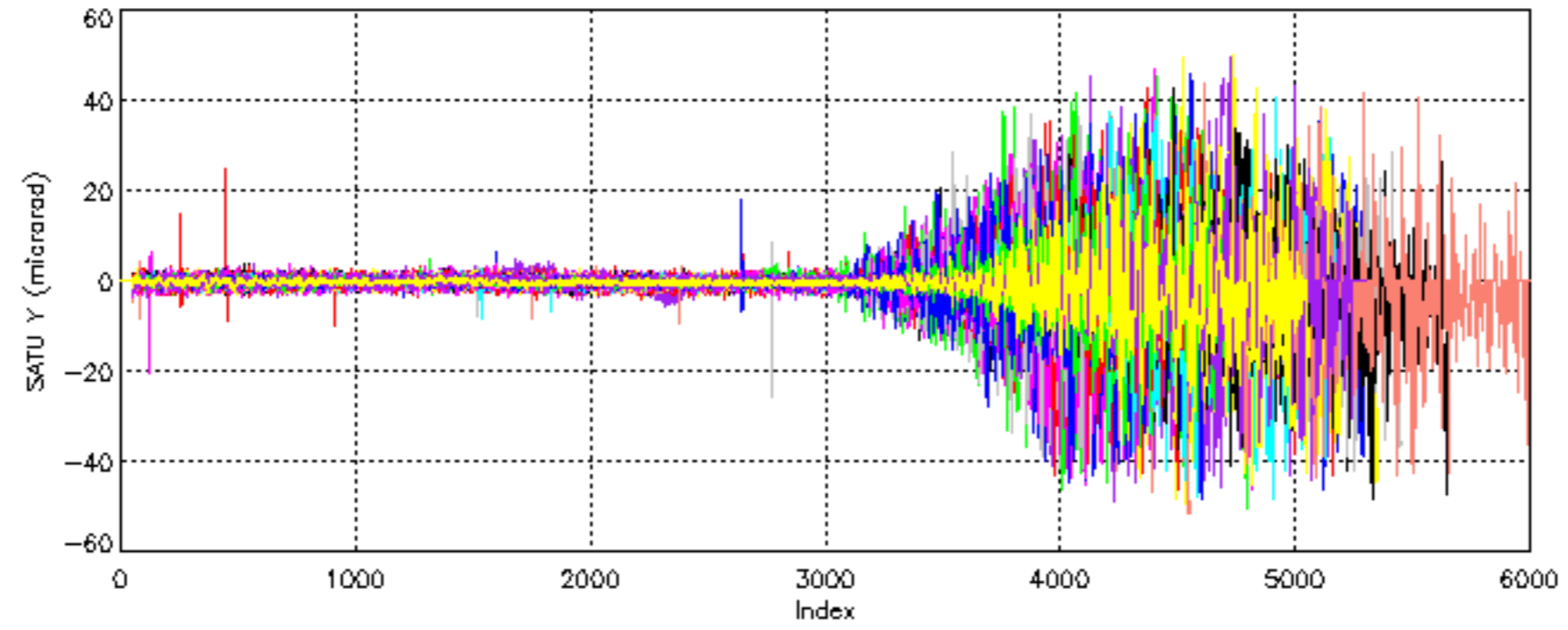


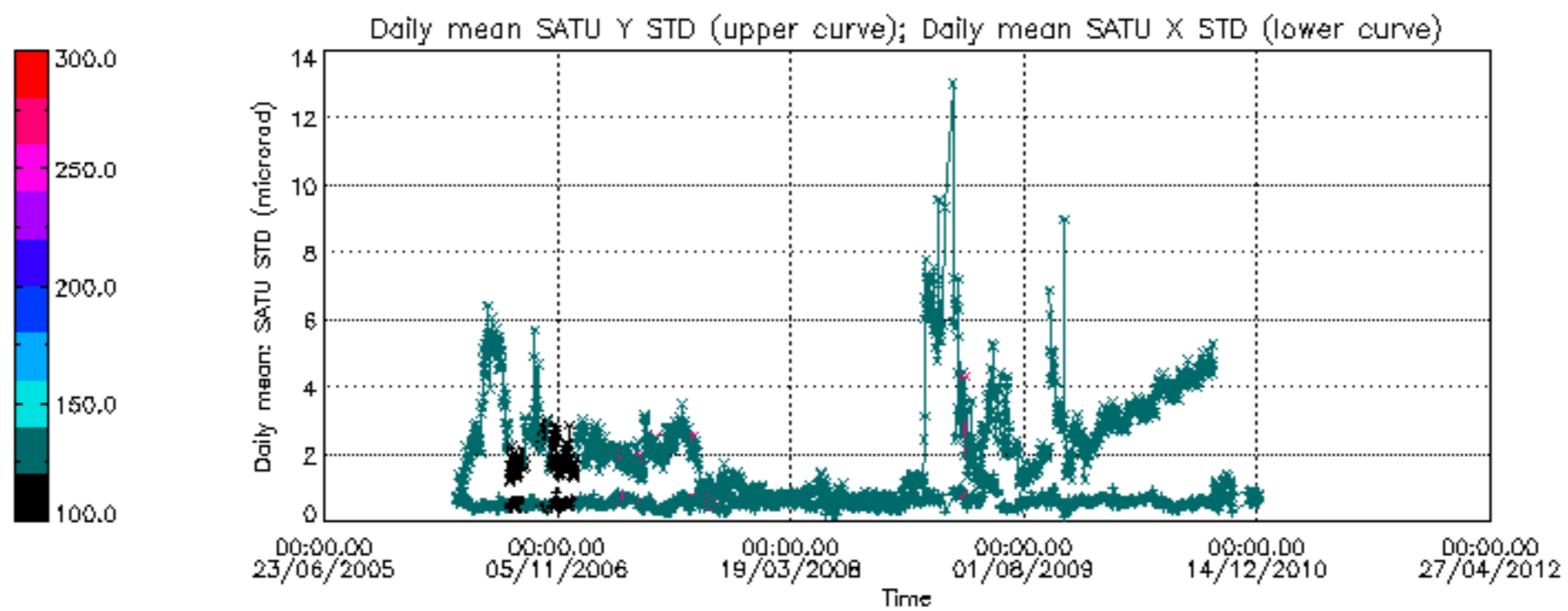
Tangent altitude at which the star is lost











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 7; 1910.1; 02-DEC-2010 20:30:12; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;45790
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10; 2311.3; 02-DEC-2010 20:36:53; Bright; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;45790

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 18; 3991.9; 02-DEC-2010 21:04:53; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45790  
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 18; 2717.7; 03-DEC-2010 00:04:07; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;45792  
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 7; 2596.7; 02-DEC-2010 10:40:14; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;45784  
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 9; 2819.2; 02-DEC-2010 10:43:57; Bright; 51.0; 6; 13Alp Aur ; 0.08; 3400;occ; 102; 0;45784  
 10; 2921.8; 02-DEC-2010 10:45:39; Bright; 47.5; 42; 34Bet Aur ; 1.90; 10200;occ; 95; 0;45784  
 11; 3794.2; 02-DEC-2010 11:00:12; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;45784  
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 13; 3992.5; 02-DEC-2010 11:03:30; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45784  
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 17; 5450.1; 02-DEC-2010 11:27:47; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;45784  
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14; 3992.4; 02-DEC-2010 12:43:44; Bright; 37.5; 32; 77Eps UMa ; 1.76; 11000;occ; 75; 0;45785
15; 4327.5; 02-DEC-2010 12:49:19; Bright; 41.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 82; 0;45785
16; 4844.5; 02-DEC-2010 12:57:56; Bright; 41.0; 138; 47Eps Vir ; 2.83; 4700;occ; 82; 0;45785
17; 5108.0; 02-DEC-2010 13:02:19; Bright; 46.5; 121; 29Gam Vir ; 2.74; 7200;occ; 93; 0;45785
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8; 2596.2; 02-DEC-2010 14:00:42; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;45786
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11; 2920.0; 02-DEC-2010 14:06:05; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;45786
12; 3793.7; 02-DEC-2010 14:20:39; Bright; 45.0; 36; 50Alp UMa ; 1.80; 6300;occ; 90; 0;45786
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14; 3992.5; 02-DEC-2010 14:23:58; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;45786
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23; 6823.9; 02-DEC-2010 15:11:09; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;45787
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5; 2210.9; 02-DEC-2010 15:34:30; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;45787
6; 2311.7; 02-DEC-2010 15:36:11; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;45787
7; 2451.7; 02-DEC-2010 15:38:31; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;45787
8; 2596.1; 02-DEC-2010 15:40:55; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;45787
9; 2718.5; 02-DEC-2010 15:42:58; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;45787
10; 2817.4; 02-DEC-2010 15:44:37; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;45787
11; 2919.2; 02-DEC-2010 15:46:18; Bright; 50.5; 42; 34Bet Aur ; 1.90; 10200;occ; 101; 0;45787
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13; 3888.1; 02-DEC-2010 16:02:27; Bright; 47.5; 82; 48Bet UMa ; 2.37; 10600;occ; 95; 0;45787
14; 3992.4; 02-DEC-2010 16:04:12; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45787
15; 4327.7; 02-DEC-2010 16:09:47; Bright; 38.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 77; 0;45787
16; 4845.2; 02-DEC-2010 16:18:24; Bright; 41.0; 138; 47Eps Vir ; 2.83; 4700;occ; 82; 0;45787

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 19; 5548.4; 02-DEC-2010 16:30:08; Dark ; 51.5; 171; 2Eps Crv ; 3.00; 4250;occ; 103; 0;45787  
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 8; 2595.8; 02-DEC-2010 17:21:09; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;45788  
 9; 2718.6; 02-DEC-2010 17:23:12; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;45788  
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 12; 3792.9; 02-DEC-2010 17:41:06; Bright; 47.5; 36; 50Alp UMa ; 1.80; 6300;occ; 95; 0;45788  
 13; 3887.8; 02-DEC-2010 17:42:41; Bright; 46.0; 82; 48Bet UMa ; 2.37; 10600;occ; 92; 0;45788  
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 23; 6825.1; 02-DEC-2010 18:31:38; Dark ; 57.5; 2; Alp Car ;-0.74; 7000;occ; 115; 0;45789  
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 21; 6138.3; 04-DEC-2010 18:46:59; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;45818  
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22; 6138.9; 04-DEC-2010 20:27:13; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;45819
23; 6464.7; 04-DEC-2010 20:32:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45819
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7; 2445.6; 05-DEC-2010 02:06:36; Bright; 20.0; 150; 44Zet Per ; 2.89; 28000;occ; 40; 0;45822
8; 2553.5; 05-DEC-2010 02:08:24; Bright; 45.0; 114; 3Iot Aur ; 2.69; 4600;occ; 90; 47;45822
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13; 4120.1; 05-DEC-2010 02:34:30; Bright; 48.5; 39; 85Eta UMa ; 1.85; 24000;occ; 97; 50;45822
14; 4345.1; 05-DEC-2010 02:38:16; Bright; 41.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 83; 59;45822
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16; 4862.1; 05-DEC-2010 02:46:52; Bright; 23.5; 138; 47Eps Vir ; 2.83; 4700;occ; 47; 17;45822
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 4; 149.5; 06-DEC-2010 22:34:39; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;45849  
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 6; 668.3; 06-DEC-2010 22:43:18; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;45849  
 7; 840.1; 06-DEC-2010 22:46:09; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;45849  
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 9; 1214.5; 06-DEC-2010 22:52:24; Dark ; 44.5; 108; Alp Col ; 2.65; 15200;occ; 89; 0;45849  
 10; 1535.6; 06-DEC-2010 22:57:45; Dark ; 51.5; 101; 11Alp Lep ; 2.58; 7000;occ; 103; 0;45849  
 11; 1735.8; 06-DEC-2010 23:01:05; Dark ; 57.5; 7; 19Bet Ori ; 0.10; 14000;occ; 115; 0;45849  
 12; 1893.4; 06-DEC-2010 23:03:43; Dark ; 54.0; 30; 46Eps Ori ; 1.69; 30000;occ; 108; 0;45849  
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 14; 2194.7; 06-DEC-2010 23:08:44; Dark ; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;45849  
 15; 2306.0; 06-DEC-2010 23:10:35; Bright; 36.5; 146; 25Eta Tau ; 2.87; 15200;occ; 73; 0;45849  
 16; 2442.1; 06-DEC-2010 23:12:51; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;45849  
 17; 2525.7; 06-DEC-2010 23:14:15; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;45849  
 18; 2709.9; 06-DEC-2010 23:17:19; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;45849  
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 23; 4120.1; 06-DEC-2010 23:40:49; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;45849  
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 25; 4671.5; 06-DEC-2010 23:50:01; Bright; 37.0; 111; 8Eta Boo ; 2.68; 6000;occ; 74; 0;45849  
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 27; 5150.4; 06-DEC-2010 23:58:00; Dark ; 53.5; 121; 29Gam Vir ; 2.74; 7200;occ; 107; 0;45849

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 5; -1684.0; 06-DEC-2010 07:01:59; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;45839  
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 7; -1146.9; 06-DEC-2010 07:10:56; Bright; 45.0; 138; 47Eps Vir ; 2.83; 4700;occ; 90; 0;45839  
 8; -870.5; 06-DEC-2010 07:15:33; Dark ; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;45839  
 9; -514.6; 06-DEC-2010 07:21:28; Dark ; 50.0; 100; 4Gam Crv ; 2.58; 13100;occ; 100; 0;45839  
 10; -418.3; 06-DEC-2010 07:23:05; Dark ; 51.0; 171; 2Eps Crv ; 3.00; 4250;occ; 102; 0;45839  
 11; 142.2; 06-DEC-2010 07:32:25; Dark ; 54.0; 113; Mu Vel ; 2.69; 5000;occ; 108; 0;45840  
 12; 467.8; 06-DEC-2010 07:37:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45840  
 13; 661.0; 06-DEC-2010 07:41:04; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;45840  
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 15; 967.9; 06-DEC-2010 07:46:11; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;45840  
 16; 1211.5; 06-DEC-2010 07:50:15; Dark ; 45.0; 108; Alp Col ; 2.65; 15200;occ; 90; 0;45840  
 17; 1534.6; 06-DEC-2010 07:55:38; Dark ; 48.0; 101; 11Alp Lep ; 2.58; 7000;occ; 96; 0;45840

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 3; 2049.0; 06-DEC-2010 08:04:12; Dark ; 56.0; 27; 24Gam Ori ; 1.64; 26000;occ; 112; 0;45840  
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 5; 2306.6; 06-DEC-2010 08:08:30; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;45840  
 6; 2443.4; 06-DEC-2010 08:10:46; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;45840  
 7; 2529.7; 06-DEC-2010 08:12:13; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;45840  
 8; 2711.1; 06-DEC-2010 08:15:14; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45840  
 9; 2873.9; 06-DEC-2010 08:17:57; Bright; 32.0; 42; 34Bet Aur ; 1.90; 10200;occ; 64; 0;45840



10; 3772.8; 06-DEC-2010 08:32:56; Bright; 46.5; 36; 50Alp UMA ; 1.80; 6300;occ; 93; 0;45840  
 11; 3865.6; 06-DEC-2010 08:34:29; Bright; 47.0; 82; 48Bet UMA ; 2.37; 10600;occ; 94; 0;45840  
 12; 3986.2; 06-DEC-2010 08:36:29; Bright; 41.0; 32; 77Eps UMA ; 1.76; 11000;occ; 82; 0;45840  
 13; 4120.3; 06-DEC-2010 08:38:43; Bright; 35.5; 39; 85Eta UMA ; 1.85; 24000;occ; 71; 0;45840  
 14; 4330.0; 06-DEC-2010 08:42:13; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;45840  
 15; 4669.4; 06-DEC-2010 08:47:52; Bright; 37.0; 111; 8Eta Boo ; 2.68; 6000;occ; 74; 0;45840  
 16; 4867.7; 06-DEC-2010 08:51:11; Bright; 45.0; 138; 47Eps Vir ; 2.83; 4700;occ; 90; 0;45840  
 17; 5144.0; 06-DEC-2010 08:55:47; Dark ; 52.0; 121; 29Gam Vir ; 2.74; 7200;occ; 104; 0;45840  
 18; 5500.3; 06-DEC-2010 09:01:43; Dark ; 51.0; 100; 4Gam Crv ; 2.58; 13100;occ; 102; 0;45840  
 19; 5596.7; 06-DEC-2010 09:03:20; Dark ; 55.5; 171; 2Eps Crv ; 3.00; 4250;occ; 111; 0;45840  
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 25; 7225.8; 06-DEC-2010 09:30:29; Dark ; 42.0; 108; Alp Col ; 2.65; 15200;occ; 84; 0;45841  
 26; 7548.7; 06-DEC-2010 09:35:52; Dark ; 49.5; 101; 11Alp Lep ; 2.58; 7000;occ; 99; 0;45841

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 7; 2529.3; 06-DEC-2010 09:52:26; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;45841  
 8; 2710.8; 06-DEC-2010 09:55:28; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;45841  
 9; 2873.0; 06-DEC-2010 09:58:10; Bright; 32.0; 42; 34Bet Aur ; 1.90; 10200;occ; 64; 0;45841  
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 13; 4120.3; 06-DEC-2010 10:18:57; Bright; 37.0; 39; 85Eta UMA ; 1.85; 24000;occ; 74; 0;45841  
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 17; 5145.5; 06-DEC-2010 12:16:17; Dark ; 50.5; 121; 29Gam Vir ; 2.74; 7200;occ; 101; 0;45842  
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 22; 6677.4; 06-DEC-2010 12:41:49; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;45843  
 23; 6851.4; 06-DEC-2010 12:44:42; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;45843

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23; 6678.3; 06-DEC-2010 14:22:03; Dark ; 53.0; 34; Gam2Vel ; 1.79; 23000;occ; 106; 0;45844
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 21; 5615.4; 07-DEC-2010 16:48:05; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;45859  
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 27; 6996.5; 07-DEC-2010 17:11:06; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;45860

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 5; 23.0; 15-DEC-2010 00:19:39; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;45965  
 6; 249.8; 15-DEC-2010 00:23:26; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45965  
 7; 480.5; 15-DEC-2010 00:27:17; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;45965  
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 9; 757.7; 15-DEC-2010 00:31:54; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;45965  
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 12; 1246.2; 15-DEC-2010 00:40:02; Dark ; 58.5; 23; 21Eps CMA ; 1.50; 26000;occ; 117; 0;45965  
 13; 1523.2; 15-DEC-2010 00:44:39; Dark ; 54.0; 47; 2Bet CMA ; 1.98; 28000;occ; 108; 0;45965  
 14; 1737.2; 15-DEC-2010 00:48:13; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;45965  
 15; 1873.6; 15-DEC-2010 00:50:30; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;45965  
 16; 2065.4; 15-DEC-2010 00:53:42; Dark ; 62.5; 14; 58Alp Ori ; 0.87; 3000;occ; 125; 0;45965  
 17; 2177.9; 15-DEC-2010 00:55:34; Dark ; 47.5; 13; 87Alp Tau ; 0.87; 3800;occ; 95; 0;45965  
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 19; 2438.8; 15-DEC-2010 00:59:55; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;45965  
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 22; 3686.1; 15-DEC-2010 01:20:42; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;45965  
 23; 3964.9; 15-DEC-2010 01:25:21; Bright; 62.0; 32; 77Eps UMa ; 1.76; 11000;occ; 124; 0;45965  
 24; 4117.3; 15-DEC-2010 01:27:54; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;45965  
 25; 4315.6; 15-DEC-2010 01:31:12; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;45965  
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 27; 4703.0; 15-DEC-2010 01:37:39; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;45965  
 28; 4934.7; 15-DEC-2010 01:41:31; Bright; 48.5; 138; 47Eps Vir ; 2.83; 4700;occ; 97; 0;45965

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 5; 23.9; 15-DEC-2010 01:59:54; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;45966  
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 15; 1873.6; 15-DEC-2010 02:30:44; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;45966  
 16; 2065.0; 15-DEC-2010 02:33:55; Dark ; 67.0; 14; 58Alp Ori ; 0.87; 3000;occ; 134; 0;45966  
 17; 2177.9; 15-DEC-2010 02:35:48; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;45966  
 18; 2315.7; 15-DEC-2010 02:38:06; Bright; 46.0; 176; 23Zet Tau ; 3.02; 22000;occ; 92; 0;45966  
 19; 2438.3; 15-DEC-2010 02:40:09; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;45966  
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6;-1310.7; 15-DEC-2010 03:17:54; Bright; 50.5; 111; 8Eta Boo ; 2.68; 6000;occ; 101; 0;45966
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15; 567.9; 15-DEC-2010 03:49:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45967
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17; 891.1; 15-DEC-2010 03:54:35; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;45967
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23; 2064.9; 15-DEC-2010 04:14:09; Dark ; 64.0; 14; 58Alp Ori ; 0.87; 3000;occ; 128; 0;45967
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25; 2315.3; 15-DEC-2010 04:18:20; Bright; 46.0; 176; 23Zet Tau ; 3.02; 22000;occ; 92; 0;45967
26; 2438.0; 15-DEC-2010 04:20:22; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;45967
27; 2656.2; 15-DEC-2010 04:24:01; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;45967
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3;-1896.8; 15-DEC-2010 04:48:22; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;45967
4;-1698.3; 15-DEC-2010 04:51:40; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;45967
5;-1507.0; 15-DEC-2010 04:54:51; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0;45967
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22; 1737.5; 15-DEC-2010 05:48:56; Dark ; 56.0; 7; 19Bet Ori ; 0.10; 14000;occ; 112; 0;45968
23; 1873.6; 15-DEC-2010 05:51:12; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;45968
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8; 2177.2; 15-DEC-2010 20:58:22; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;45977
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25; 3939.6; 16-DEC-2010 02:28:26; Bright; 25.0; 87; 64Gam UMA ; 2.43; 11000;occ; 50; 0;45980
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29; 4509.2; 16-DEC-2010 02:37:56; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0;45980
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53; 8661.6; 16-DEC-2010 03:47:08; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;45981
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12; 4116.3; 16-DEC-2010 14:13:01; Bright; 40.5; 39; 85Eta UMa ; 1.85; 24000;occ; 81; 0;45987  
13; 4317.7; 16-DEC-2010 14:16:22; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;45987  
14; 4510.6; 16-DEC-2010 14:19:35; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;45987  
15; 4709.9; 16-DEC-2010 14:22:55; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;45987  
16; 4949.2; 16-DEC-2010 14:26:54; Bright; 42.0; 138; 47Eps Vir ; 2.83; 4700;occ; 84; 0;45987  
17; 5307.5; 16-DEC-2010 14:32:52; Dark ; 55.5; 15; 67Alp Vir ; 0.98; 28000;occ; 111; 0;45987  
18; 5517.2; 16-DEC-2010 14:36:22; Dark ; 50.0; 169; 46Gam Hya ; 2.99; 4700;occ; 100; 0;45987  
19; 5668.5; 16-DEC-2010 14:38:53; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;45987  
20; 5765.4; 16-DEC-2010 14:40:30; Dark ; 52.0; 171; 2Eps Crv ; 3.00; 4250;occ; 104; 0;45987  
21; 5955.2; 16-DEC-2010 14:43:40; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;45987  
22; 6053.1; 16-DEC-2010 14:45:18; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;45988  
23; 6284.3; 16-DEC-2010 14:49:09; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;45988  
24; 6509.0; 16-DEC-2010 14:52:54; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;45988  
25; 6597.6; 16-DEC-2010 14:54:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45988  
26; 6788.2; 16-DEC-2010 14:57:33; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;45988  
27; 6915.4; 16-DEC-2010 14:59:40; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;45988  
28; 7077.0; 16-DEC-2010 15:02:22; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;45988  
29; 7270.2; 16-DEC-2010 15:05:35; Dark ; 51.5; 23; 21Eps CMa ; 1.50; 26000;occ; 103; 0;45988  
30; 7376.7; 16-DEC-2010 15:07:21; Dark ; 24.5; 179; 240mi2CMa ; 3.03; 24000;occ; 49; 0;45988

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

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

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

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

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

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

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27; 7275.8; 17-DEC-2010 14:28:57; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;46002  
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22; 6518.4; 17-DEC-2010 15:56:34; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;46003  
23; 6608.8; 17-DEC-2010 15:58:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46003  
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8; 2424.4; 17-DEC-2010 16:28:34; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;46003  
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21; 6064.4; 17-DEC-2010 17:29:14; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;46004
22; 6298.7; 17-DEC-2010 17:33:08; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46004
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16; 4319.2; 17-DEC-2010 18:40:22; Bright; 56.0; 180; 27Gam Boo ; 3.04; 8000;occ; 112; 0;46004
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26; 7397.8; 21-DEC-2010 10:23:51; Dark ; 50.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 100; 0;46057
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6; 2606.2; 21-DEC-2010 10:44:13; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;46057
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9; 3942.4; 21-DEC-2010 11:06:29; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0;46057
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 12; 4523.0; 21-DEC-2010 12:56:24; Bright; 56.0; 83; ; 2.38; 11000;occ; 112; 0;46058  
 13; 4734.2; 21-DEC-2010 12:59:55; Bright; 46.5; 111; 8Eta Boo ; 2.68; 6000;occ; 93; 0;46058  
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13; 3937.3; 22-DEC-2010 17:10:37; Bright; 45.5; 32; 77Eps UMa ; 1.76; 11000;occ; 91; 0;46075
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10; 5.0; 23-DEC-2010 05:26:56; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;46083
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23; 6035.7; 24-DEC-2010 19:52:36; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;46106  
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26; 6579.9; 24-DEC-2010 20:01:40; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46106  
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28; 6769.1; 24-DEC-2010 20:04:49; Dark ; 58.5; 65; Lam Vel ; 2.20; 4400;occ; 117; 0;46106  
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27; 7574.4; 26-DEC-2010 10:43:37; Dark ; 52.5; 1; 9Alp CMa ; -1.44; 11000;occ; 105; 0;46129
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13; 3673.9; 30-DEC-2010 17:13:06; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46190  
14; 3897.7; 30-DEC-2010 17:16:50; Bright; 47.5; 32; 77Eps UMa ; 1.76; 11000;occ; 95; 0;46190  
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24; 6208.0; 30-DEC-2010 17:55:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46191  
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27; 6724.2; 30-DEC-2010 18:03:56; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;46191  
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26; 6208.9; 30-DEC-2010 19:35:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46192  
27; 6468.6; 30-DEC-2010 19:39:55; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;46192  
28; 6628.3; 30-DEC-2010 19:42:34; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46192  
29; 6724.6; 30-DEC-2010 19:44:11; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;46192

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8; 711.7; 31-DEC-2010 00:44:54; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;46195  
9; 900.5; 31-DEC-2010 00:48:03; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;46195  
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23; 3895.6; 31-DEC-2010 01:37:58; Bright; 47.5; 32; 77Eps UMa ; 1.76; 11000;occ; 95; 0;46195
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 27; 2554.7; 31-DEC-2010 06:16:19; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;46198  
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22; 6729.3; 31-DEC-2010 12:26:36; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0;46202
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22; 6634.3; 31-DEC-2010 14:05:14; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;46203
23; 6729.6; 31-DEC-2010 14:06:50; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;46203
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12; 4088.3; 31-DEC-2010 15:03:02; Bright; 66.0; 39; 85Eta UMA ; 1.85; 24000;occ; 132; 0;46203
13; 4331.0; 31-DEC-2010 15:07:05; Bright; 46.0; 180; 27Gam Boo ; 3.04; 8000;occ; 92; 0;46203
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16; 5168.3; 31-DEC-2010 15:21:02; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;46203
17; 5326.1; 31-DEC-2010 15:23:40; Dark ; 48.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 96; 0;46203
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19; 5903.4; 31-DEC-2010 15:33:18; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;46203

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 22; 6479.3; 31-DEC-2010 15:42:53; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;46204  
 23; 6634.9; 31-DEC-2010 15:45:29; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46204  
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 25; 6919.6; 31-DEC-2010 15:50:14; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;46204  
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 27; 7175.5; 31-DEC-2010 15:54:30; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;46204  
 28; 7343.4; 31-DEC-2010 15:57:18; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;46204

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 11; 3672.5; 31-DEC-2010 16:36:21; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;46204  
 12; 3892.1; 31-DEC-2010 16:40:00; Bright; 48.0; 32; 77Eps UMa ; 1.76; 11000;occ; 96; 0;46204  
 13; 4088.1; 31-DEC-2010 16:43:16; Bright; 46.5; 39; 85Eta UMa ; 1.85; 24000;occ; 93; 0;46204  
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 17; 5168.7; 31-DEC-2010 17:01:17; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;46204  
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 21; 6112.2; 31-DEC-2010 17:17:00; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;46205  
 22; 6221.0; 31-DEC-2010 17:18:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46205  
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 25; 6730.5; 31-DEC-2010 17:27:19; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;46205  
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 13; 3891.6; 31-DEC-2010 18:20:14; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;46205  
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 22; 6112.9; 31-DEC-2010 18:57:15; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;46206  
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12;	2677.7;	31-DEC-2010	19:40:14;	Bright;	;	41.0;	6;	13Alp Aur	;	0.08;	3400;occ;	82;	0;46206
13;	3672.2;	31-DEC-2010	19:56:49;	Bright;	;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;46206
14;	3891.1;	31-DEC-2010	20:00:28;	Bright;	;	49.5;	32;	77Eps UMa	;	1.76;	11000;occ;	99;	0;46206
15;	4087.7;	31-DEC-2010	20:03:44;	Bright;	;	66.0;	39;	85Eta UMa	;	1.85;	24000;occ;	132;	0;46206
16;	4330.9;	31-DEC-2010	20:07:47;	Bright;	;	62.0;	180;	27Gam Boo	;	3.04;	8000;occ;	124;	0;46206
17;	4551.4;	31-DEC-2010	20:11:28;	Bright;	;	62.0;	83;		;	2.38;	11000;occ;	124;	0;46206
18;	4746.2;	31-DEC-2010	20:14:43;	Bright;	;	53.5;	3;	16Alp Boo	;	-0.05;	4250;occ;	107;	0;46206
19;	5169.6;	31-DEC-2010	20:21:46;	Bright;	;	56.0;	104;	27Bet Lib	;	2.61;	13100;occ;	112;	0;46206
20;	5327.7;	31-DEC-2010	20:24:24;	Dark	;	45.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	91;	0;46206
21;	5739.5;	31-DEC-2010	20:31:16;	Dark	;	48.5;	54;	5The Cen	;	2.06;	4500;occ;	97;	0;46206
22;	5904.9;	31-DEC-2010	20:34:01;	Dark	;	42.0;	95;	Zet Cen	;	2.55;	26000;occ;	84;	0;46206
23;	6113.8;	31-DEC-2010	20:37:30;	Dark	;	44.5;	64;	Gam Cen	;	2.20;	10600;occ;	89;	0;46207
24;	6222.7;	31-DEC-2010	20:39:19;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;46207
25;	6482.0;	31-DEC-2010	20:43:38;	Dark	;	46.5;	113;	Mu Vel	;	2.69;	5000;occ;	93;	0;46207
26;	6636.4;	31-DEC-2010	20:46:13;	Dark	;	45.0;	71;	Iot Car	;	2.25;	7700;occ;	90;	0;46207
27;	6750.2;	31-DEC-2010	20:48:07;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;occ;	85;	0;46207
28;	6921.0;	31-DEC-2010	20:50:57;	Dark	;	48.0;	34;	Gam2Vel	;	1.79;	23000;occ;	96;	0;46207
29;	7051.8;	31-DEC-2010	20:53:08;	Dark	;	23.5;	70;	Zet Pup	;	2.25;	39000;occ;	47;	0;46207