

# GOMOS Daily Report 23-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	26DEC2010 05:04:42
Data source version	GOMOS/5.01
Start time of products	23DEC2010 00:01:22
Stop time of products	23DEC2010 23:58:44
Store outputs in DB	Yes
Nb of level 1b prods	151
Nb of prods with errors	0

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

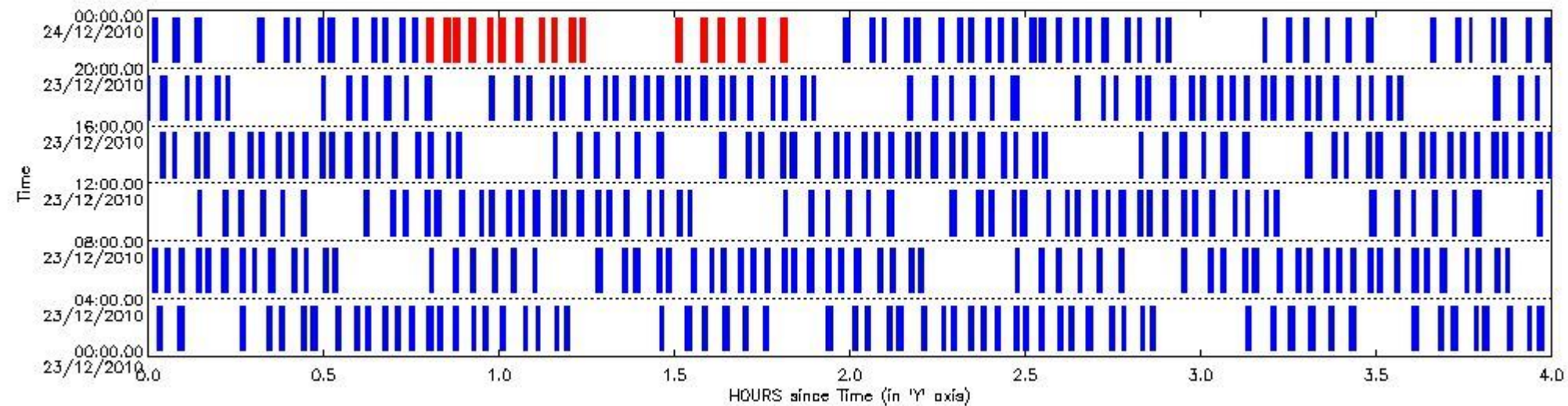
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
23-DEC-2010 20:47:29	PiPup	117	46092
23-DEC-2010 20:50:29	21EpsCMa	23	46092
23-DEC-2010 20:52:08	24Omi2CMa	179	46092
23-DEC-2010 20:54:50	9AlpCMa	1	46092
23-DEC-2010 20:57:59	19BetOri	7	46092
23-DEC-2010 21:00:00	46EpsOri	30	46092
23-DEC-2010 21:02:47	58AlpOri	14	46092
23-DEC-2010 21:06:49	23ZetTau	176	46092
23-DEC-2010 21:08:54	12BetTau	28	46092
23-DEC-2010 21:12:04	37TheAur	107	46092
23-DEC-2010 21:13:48	13AlpAur	6	46092
23-DEC-2010 21:30:15	7BetUMi	60	46092
23-DEC-2010 21:34:26	77EpsUMa	32	46092
23-DEC-2010 21:37:20	85EtaUMa	39	46092
23-DEC-2010 21:40:59	27GamBoo	180	46092

23-DEC-2010 21:44:23		83	46092
23-DEC-2010 21:48:01	8EtaBoo	111	46092

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

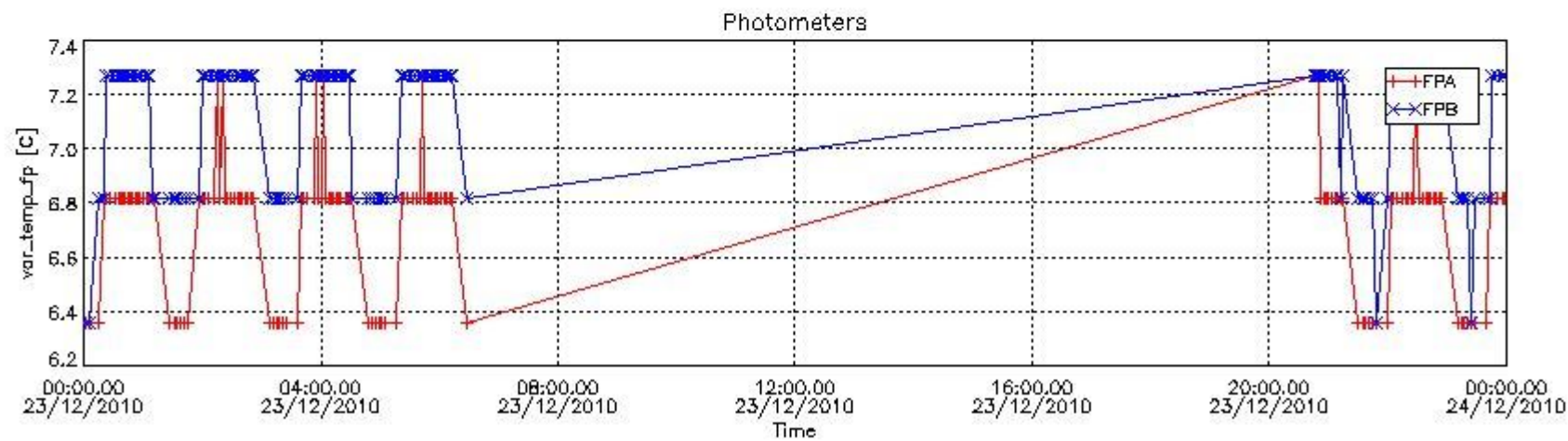
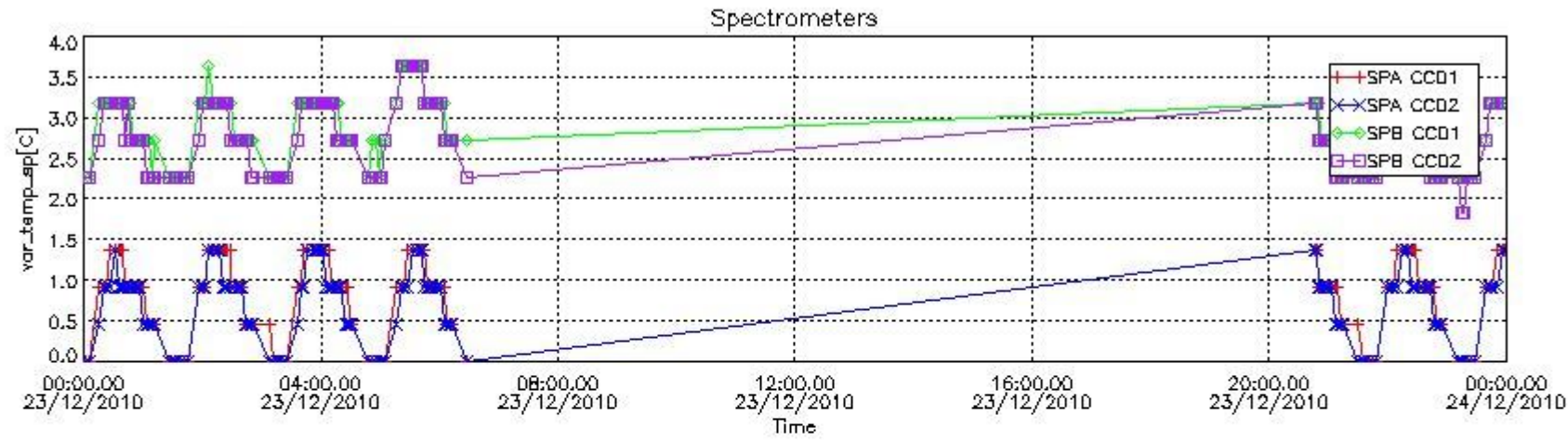
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101223_000122_000000573097_00375_46079_8558.N1	23-DEC-2010 00:01:22	Bright	57.000	83		2.3780	11000.	114	46079	No
2	GOM_TRA_1PNPDE20101223_000457_000000663097_00375_46079_8559.N1	23-DEC-2010 00:04:57	Bright	66.000	111	8Eta Boo	2.6800	6000.0	132	46079	No
3	GOM_TRA_1PNPDE20101223_001540_000000563097_00375_46079_8558.N1	23-DEC-2010 00:15:40	Twilight	55.500	15	67Alp Vir	0.97600	28000.	111	46079	No
4	GOM_TRA_1PNPDE20101223_002015_000000483097_00375_46079_8559.N1	23-DEC-2010 00:20:15	Dark	48.000	54	5The Cen	2.0550	4500.0	96	46079	No
5	GOM_TRA_1PNPDE20101223_002216_000000573097_00375_46079_8560.N1	23-DEC-2010 00:22:16	Dark	57.000	106	9Bet Crv	2.6480	5600.0	114	46079	No
6	GOM_TRA_1PNPDE20101223_002612_000000423097_00376_46080_8561.N1	23-DEC-2010 00:26:12	Dark	42.000	64	Gam Cen	2.2000	10600.	84	46080	No
7	GOM_TRA_1PNPDE20101223_003203_000000483097_00376_46080_8562.N1	23-DEC-2010 00:32:03	Dark	48.000	113	Mu Vel	2.6920	5000.0	96	46080	No
8	GOM_TRA_1PNPDE20101223_003520_000000443097_00376_46080_8563.N1	23-DEC-2010 00:35:20	Dark	44.000	71	lot Car	2.2460	7700.0	88	46080	No
9	GOM_TRA_1PNPDE20101223_003706_000000503097_00376_46080_8564.N1	23-DEC-2010 00:37:06	Dark	50.000	41	Eps Car	1.8600	4100.0	100	46080	No
10	GOM_TRA_1PNPDE20101223_004004_000000463097_00376_46080_8565.N1	23-DEC-2010 00:40:04	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	46080	No
11	GOM_TRA_1PNPDE20101223_004214_000000493097_00376_46080_8566.N1	23-DEC-2010 00:42:14	Dark	48.500	70	Zet Pup	2.2460	39000.	97	46080	No
12	GOM_TRA_1PNPDE20101223_004439_000000503097_00376_46080_8567.N1	23-DEC-2010 00:44:39	Dark	50.000	117	Pi Pup	2.7060	3800.0	100	46080	No
13	GOM_TRA_1PNPDE20101223_004740_000000543097_00376_46080_8568.N1	23-DEC-2010 00:47:40	Straylight	53.500	23	21Eps CMa	1.5020	26000.	107	46080	No
14	GOM_TRA_1PNPDE20101223_004920_000000493097_00376_46080_8569.N1	23-DEC-2010 00:49:20	Straylight	48.500	179	24Omi2CMa	3.0320	24000.	97	46080	No
15	GOM_TRA_1PNPDE20101223_005204_000000573097_00376_46080_8570.N1	23-DEC-2010 00:52:04	Straylight	57.000	1	9Alp CMa	-1.4400	11000.	114	46080	No
16	GOM_TRA_1PNPDE20101223_005514_000000463097_00376_46080_8571.N1	23-DEC-2010 00:55:14	Straylight	45.500	7	19Bet Ori	0.10000	14000.	91	46080	No
17	GOM_TRA_1PNPDE20101223_005716_000000453097_00376_46080_8572.N1	23-DEC-2010 00:57:16	Straylight	45.000	30	46Eps Ori	1.6940	30000.	90	46080	No
18	GOM_TRA_1PNPDE20101223_010004_000000613097_00376_46080_8573.N1	23-DEC-2010 01:00:04	Twilight	60.500	14	58Alp Ori	0.87000	3000.0	121	46080	No
19	GOM_TRA_1PNPDE20101223_010407_000000423097_00376_46080_8574.N1	23-DEC-2010 01:04:07	Bright	42.000	176	23Zet Tau	3.0200	22000.	84	46080	No
20	GOM_TRA_1PNPDE20101223_010612_000000423097_00376_46080_8575.N1	23-DEC-2010 01:06:12	Bright	41.500	28	12Bet Tau	1.6500	15200.	83	46080	No
21	GOM_TRA_1PNPDE20101223_010925_000000413097_00376_46080_8576.N1	23-DEC-2010 01:09:25	Bright	40.500	107	37The Aur	2.6490	11000.	81	46080	No
22	GOM_TRA_1PNPDE20101223_011106_000000443097_00376_46080_8577.N1	23-DEC-2010 01:11:06	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	46080	No
23	GOM_TRA_1PNPDE20101223_012731_000000383097_00376_46080_8578.N1	23-DEC-2010 01:27:31	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	46080	No
24	GOM_TRA_1PNPDE20101223_013145_000000653097_00376_46080_8579.N1	23-DEC-2010 01:31:45	Bright	65.000	32	77Eps UMa	1.7630	11000.	130	46080	No
25	GOM_TRA_1PNPDE20101223_013437_000000613097_00376_46080_8580.N1	23-DEC-2010 01:34:37	Bright	61.000	39	85Eta UMa	1.8540	24000.	122	46080	No
26	GOM_TRA_1PNPDE20101223_013814_000000583097_00376_46080_8581.N1	23-DEC-2010 01:38:14	Bright	58.000	180	27Gam Boo	3.0400	8000.0	116	46080	No
27	GOM_TRA_1PNPDE20101223_014136_000000573097_00376_46080_8582.N1	23-DEC-2010 01:41:36	Bright	57.000	83		2.3780	11000.	114	46080	No
28	GOM_TRA_1PNPDE20101223_014512_000000473097_00376_46080_8583.N1	23-DEC-2010 01:45:12	Bright	47.000	111	8Eta Boo	2.6800	6000.0	94	46080	No
29	GOM_TRA_1PNPDE20101223_015555_000000583097_00376_46080_8578.N1	23-DEC-2010 01:55:55	Twilight	57.500	15	67Alp Vir	0.97600	28000.	115	46080	No
30	GOM_TRA_1PNPDE20101223_020029_000000513097_00376_46080_8579.N1	23-DEC-2010 02:00:29	Dark	51.000	54	5The Cen	2.0550	4500.0	102	46080	No
31	GOM_TRA_1PNPDE20101223_020231_000000583097_00376_46080_8580.N1	23-DEC-2010 02:02:31	Dark	58.000	106	9Bet Crv	2.6480	5600.0	116	46080	No
32	GOM_TRA_1PNPDE20101223_020627_000000453097_00377_46081_8581.N1	23-DEC-2010 02:06:27	Dark	44.500	64	Gam Cen	2.2000	10600.	89	46081	No
33	GOM_TRA_1PNPDE20101223_021218_000000483097_00377_46081_8582.N1	23-DEC-2010 02:12:18	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	46081	No
34	GOM_TRA_1PNPDE20101223_021534_000000443097_00377_46081_8583.N1	23-DEC-2010 02:15:34	Dark	44.000	71	lot Car	2.2460	7700.0	88	46081	No
35	GOM_TRA_1PNPDE20101223_021721_000000413097_00377_46081_8584.N1	23-DEC-2010 02:17:21	Dark	41.000	41	Eps Car	1.8600	4100.0	82	46081	No
36	GOM_TRA_1PNPDE20101223_022019_000000463097_00377_46081_8585.N1	23-DEC-2010 02:20:19	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	46081	No
37	GOM_TRA_1PNPDE20101223_022229_000000513097_00377_46081_8586.N1	23-DEC-2010 02:22:29	Dark	50.500	70	Zet Pup	2.2460	39000.	101	46081	No
38	GOM_TRA_1PNPDE20101223_022453_000000513097_00377_46081_8587.N1	23-DEC-2010 02:24:53	Dark	50.500	117	Pi Pup	2.7060	3800.0	101	46081	No
39	GOM_TRA_1PNPDE20101223_022755_000000533097_00377_46081_8588.N1	23-DEC-2010 02:27:55	Straylight	52.500	23	21Eps CMa	1.5020	26000.	105	46081	No
40	GOM_TRA_1PNPDE20101223_022934_000000493097_00377_46081_8589.N1	23-DEC-2010 02:29:34	Straylight	48.500	179	24Omi2CMa	3.0320	24000.	97	46081	No
41	GOM_TRA_1PNPDE20101223_023218_000000583097_00377_46081_8590.N1	23-DEC-2010 02:32:18	Straylight	57.500	1	9Alp CMa	-1.4400	11000.	115	46081	No
42	GOM_TRA_1PNPDE20101223_023528_000000463097_00377_46081_8591.N1	23-DEC-2010 02:35:28	Straylight	45.500	7	19Bet Ori	0.10000	14000.	91	46081	No
43	GOM_TRA_1PNPDE20101223_023730_000000453097_00377_46081_8592.N1	23-DEC-2010 02:37:30	Straylight	44.500	30	46Eps Ori	1.6940	30000.	89	46081	No
44	GOM_TRA_1PNPDE20101223_024018_000000603097_00377_46081_8593.N1	23-DEC-2010 02:40:18	Twilight	60.000	14	58Alp Ori	0.87000	3000.0	120	46081	No
45	GOM_TRA_1PNPDE20101223_024421_000000423097_00377_46081_8594.N1	23-DEC-2010 02:44:21	Bright	42.000	176	23Zet Tau	3.0200	22000.	84	46081	No
46	GOM_TRA_1PNPDE20101223_024625_000000423097_00377_46081_8595.N1	23-DEC-2010 02:46:25	Bright	41.500	28	12Bet Tau	1.6500	15200.	83	46081	No
47	GOM_TRA_1PNPDE20101223_024939_000000423097_00377_46081_8596.N1	23-DEC-2010 02:49:39	Bright	41.500	107	37The Aur	2.6490	11000.	83	46081	No
48	GOM_TRA_1PNPDE20101223_025120_000000423097_00377_46081_8597.N1	23-DEC-2010 02:51:20	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	46081	No
49	GOM_TRA_1PNPDE20101223_030745_000000393097_00377_46081_8608.N1	23-DEC-2010 03:07:45	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	46081	No
50	GOM_TRA_1PNPDE20101223_031159_000000443097_00377_46081_8609.N1	23-DEC-2010 03:11:59	Bright	43.500	32	77Eps UMa	1.7630	11000.	87	46081	No
51	GOM_TRA_1PNPDE20101223_031451_000000613097_00377_46081_8610.N1	23-DEC-2010 03:14:51	Bright	61.000	39	85Eta UMa	1.8540	24000.	122	46081	No
52	GOM_TRA_1PNPDE20101223_031828_000000583097_00377_46081_8611.N1	23-DEC-2010 03:18:28	Bright	58.000	180	27Gam Boo	3.0400	8000.0	116	46081	No

53	GOM_TRA_1PNPDE20101223_032150_000000573097_00377_46081_8612.N1	23-DEC-2010 03:21:50	Bright	57.000	83		2.3780	11000.	114	46081	No
54	GOM_TRA_1PNPDE20101223_032526_000000663097_00377_46081_8613.N1	23-DEC-2010 03:25:26	Bright	66.000	111	8Eta Boo	2.6800	6000.0	132	46081	No
55	GOM_TRA_1PNPDE20101223_033610_000000583097_00377_46081_8614.N1	23-DEC-2010 03:36:10	Tw_i_and_stray	58.000	15	67Alp Vir	0.97600	28000.	116	46081	No
56	GOM_TRA_1PNPDE20101223_034044_000000443097_00377_46081_8615.N1	23-DEC-2010 03:40:44	Dark	43.500	54	5The Cen	2.0550	4500.0	87	46081	No
57	GOM_TRA_1PNPDE20101223_034246_000000573097_00377_46081_8616.N1	23-DEC-2010 03:42:46	Dark	56.500	106	9Bet Crv	2.6480	5600.0	113	46081	No
58	GOM_TRA_1PNPDE20101223_034642_000000423097_00378_46082_8617.N1	23-DEC-2010 03:46:42	Dark	42.000	64	Gam Cen	2.2000	10600.	84	46082	No
59	GOM_TRA_1PNPDE20101223_035233_000000483097_00378_46082_8618.N1	23-DEC-2010 03:52:33	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	46082	No
60	GOM_TRA_1PNPDE20101223_035549_000000433097_00378_46082_8619.N1	23-DEC-2010 03:55:49	Dark	43.000	71	lot Car	2.2460	7700.0	86	46082	No
61	GOM_TRA_1PNPDE20101223_035735_000000543097_00378_46082_8620.N1	23-DEC-2010 03:57:35	Dark	53.500	41	Eps Car	1.8600	4100.0	107	46082	No
62	GOM_TRA_1PNPDE20101223_040033_000000493097_00378_46082_8621.N1	23-DEC-2010 04:00:33	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	46082	No
63	GOM_TRA_1PNPDE20101223_040244_000000523097_00378_46082_8622.N1	23-DEC-2010 04:02:44	Dark	51.500	70	Zet Pup	2.2460	39000.	103	46082	No
64	GOM_TRA_1PNPDE20101223_040508_000000523097_00378_46082_8623.N1	23-DEC-2010 04:05:08	Dark	52.000	117	Pi Pup	2.7060	3800.0	104	46082	No
65	GOM_TRA_1PNPDE20101223_040809_000000523097_00378_46082_8624.N1	23-DEC-2010 04:08:09	Straylight	51.500	23	21Eps CMa	1.5020	26000.	103	46082	No
66	GOM_TRA_1PNPDE20101223_040949_000000493097_00378_46082_8625.N1	23-DEC-2010 04:09:49	Straylight	49.000	179	24Omi2CMa	3.0320	24000.	98	46082	No
67	GOM_TRA_1PNPDE20101223_041232_000000633097_00378_46082_8626.N1	23-DEC-2010 04:12:32	Straylight	62.500	1	9Alp CMa	-1.4400	11000.	125	46082	No
68	GOM_TRA_1PNPDE20101223_041542_000000493097_00378_46082_8627.N1	23-DEC-2010 04:15:42	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	46082	No
69	GOM_TRA_1PNPDE20101223_041744_000000463097_00378_46082_8628.N1	23-DEC-2010 04:17:44	Straylight	45.500	30	46Eps Ori	1.6940	30000.	91	46082	No
70	GOM_TRA_1PNPDE20101223_042032_000000563097_00378_46082_8629.N1	23-DEC-2010 04:20:32	Tw_i_and_stray	55.500	14	58Alp Ori	0.87000	3000.0	111	46082	No
71	GOM_TRA_1PNPDE20101223_042435_000000413097_00378_46082_8630.N1	23-DEC-2010 04:24:35	Bright	41.000	176	23Zet Tau	3.0200	22000.	82	46082	No
72	GOM_TRA_1PNPDE20101223_042640_000000393097_00378_46082_8631.N1	23-DEC-2010 04:26:40	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	46082	No
73	GOM_TRA_1PNPDE20101223_042952_000000423097_00378_46082_8632.N1	23-DEC-2010 04:29:52	Bright	42.000	107	37The Aur	2.6490	11000.	84	46082	No
74	GOM_TRA_1PNPDE20101223_043134_000000423097_00378_46082_8633.N1	23-DEC-2010 04:31:34	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	46082	No
75	GOM_TRA_1PNPDE20101223_044759_000000393097_00378_46082_8623.N1	23-DEC-2010 04:47:59	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	46082	No
76	GOM_TRA_1PNPDE20101223_045212_000000463097_00378_46082_8624.N1	23-DEC-2010 04:52:12	Bright	45.500	32	77Eps UMa	1.7630	11000.	91	46082	No
77	GOM_TRA_1PNPDE20101223_045505_000000433097_00378_46082_8625.N1	23-DEC-2010 04:55:05	Bright	42.500	39	85Eta UMa	1.8540	24000.	85	46082	No
78	GOM_TRA_1PNPDE20101223_045842_000000583097_00378_46082_8626.N1	23-DEC-2010 04:58:42	Bright	58.000	180	27Gam Boo	3.0400	8000.0	116	46082	No
79	GOM_TRA_1PNPDE20101223_050205_000000403097_00378_46082_8627.N1	23-DEC-2010 05:02:05	Bright	39.500	83		2.3780	11000.	79	46082	No
80	GOM_TRA_1PNPDE20101223_050541_000000443097_00378_46082_8628.N1	23-DEC-2010 05:05:41	Bright	44.000	111	8Eta Boo	2.6800	6000.0	88	46082	No
81	GOM_TRA_1PNPDE20101223_051625_000000633097_00378_46082_8629.N1	23-DEC-2010 05:16:25	Tw_i_and_stray	63.000	15	67Alp Vir	0.97600	28000.	126	46082	No
82	GOM_TRA_1PNPDE20101223_052059_000000463097_00378_46082_8630.N1	23-DEC-2010 05:20:59	Dark	46.000	54	5The Cen	2.0550	4500.0	92	46082	No
83	GOM_TRA_1PNPDE20101223_052302_000000563097_00378_46082_8631.N1	23-DEC-2010 05:23:02	Dark	56.000	106	9Bet Crv	2.6480	5600.0	112	46082	No
84	GOM_TRA_1PNPDE20101223_052656_000000423097_00379_46083_8632.N1	23-DEC-2010 05:26:56	Dark	42.000	64	Gam Cen	2.2000	10600.	84	46083	No
85	GOM_TRA_1PNPDE20101223_053248_000000483097_00379_46083_8633.N1	23-DEC-2010 05:32:48	Dark	48.000	113	Mu Vel	2.6920	5000.0	96	46083	No
86	GOM_TRA_1PNPDE20101223_053604_000000403097_00379_46083_8634.N1	23-DEC-2010 05:36:04	Dark	40.000	71	lot Car	2.2460	7700.0	80	46083	No
87	GOM_TRA_1PNPDE20101223_053750_000000483097_00379_46083_8635.N1	23-DEC-2010 05:37:50	Dark	47.500	41	Eps Car	1.8600	4100.0	95	46083	No
88	GOM_TRA_1PNPDE20101223_054048_000000483097_00379_46083_8636.N1	23-DEC-2010 05:40:48	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	46083	No
89	GOM_TRA_1PNPDE20101223_054258_000000493097_00379_46083_8637.N1	23-DEC-2010 05:42:58	Dark	48.500	70	Zet Pup	2.2460	39000.	97	46083	No
90	GOM_TRA_1PNPDE20101223_054523_000000493097_00379_46083_8638.N1	23-DEC-2010 05:45:23	Dark	49.000	117	Pi Pup	2.7060	3800.0	98	46083	No
91	GOM_TRA_1PNPDE20101223_054824_000000513097_00379_46083_8639.N1	23-DEC-2010 05:48:24	Straylight	51.000	23	21Eps CMa	1.5020	26000.	102	46083	No
92	GOM_TRA_1PNPDE20101223_055003_000000493097_00379_46083_8640.N1	23-DEC-2010 05:50:03	Straylight	48.500	179	24Omi2CMa	3.0320	24000.	97	46083	No
93	GOM_TRA_1PNPDE20101223_055246_000000663097_00379_46083_8641.N1	23-DEC-2010 05:52:46	Straylight	65.500	1	9Alp CMa	-1.4400	11000.	131	46083	No
94	GOM_TRA_1PNPDE20101223_055556_000000513097_00379_46083_8642.N1	23-DEC-2010 05:55:56	Straylight	51.000	7	19Bet Ori	0.10000	14000.	102	46083	No
95	GOM_TRA_1PNPDE20101223_055758_000000473097_00379_46083_8643.N1	23-DEC-2010 05:57:58	Straylight	46.500	30	46Eps Ori	1.6940	30000.	93	46083	No
96	GOM_TRA_1PNPDE20101223_060046_000000533097_00379_46083_8644.N1	23-DEC-2010 06:00:46	Tw_i_and_stray	53.000	14	58Alp Ori	0.87000	3000.0	106	46083	No
97	GOM_TRA_1PNPDE20101223_060449_000000423097_00379_46083_8645.N1	23-DEC-2010 06:04:49	Bright	42.000	176	23Zet Tau	3.0200	22000.	84	46083	No
98	GOM_TRA_1PNPDE20101223_060653_000000413097_00379_46083_8646.N1	23-DEC-2010 06:06:53	Bright	41.000	28	12Bet Tau	1.6500	15200.	82	46083	No
99	GOM_TRA_1PNPDE20101223_061006_000000413097_00379_46083_8647.N1	23-DEC-2010 06:10:06	Bright	40.500	107	37The Aur	2.6490	11000.	81	46083	No
100	GOM_TRA_1PNPDE20101223_061148_000000453097_00379_46083_8648.N1	23-DEC-2010 06:11:48	Bright	45.000	6	13Alp Aur	0.080000	3400.0	90	46083	No
101	GOM_TRA_1PNPDE20101223_062813_000000343097_00379_46083_8649.N1	23-DEC-2010 06:28:13	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	46083	No
102	GOM_TRA_1PNPDE20101223_204511_000000493097_00388_46092_8734.N1	23-DEC-2010 20:45:11	Dark	48.500	70	Zet Pup	2.2460	39000.	97	46092	No
103	GOM_TRA_1PNPDE20101223_204733_000000513097_00388_46092_8735.N1	23-DEC-2010 20:47:33	Dark	50.500	117	Pi Pup	2.7060	3800.0	101	46092	No
104	GOM_TRA_1PNPDE20101223_205033_000000523097_00388_46092_8736.N1	23-DEC-2010 20:50:33	Straylight	51.500	23	21Eps CMa	1.5020	26000.	103	46092	No
105	GOM_TRA_1PNPDE20101223_205212_000000493097_00388_46092_8737.N1	23-DEC-2010 20:52:12	Straylight	48.500	179	24Omi2CMa	3.0320	24000.	97	46092	No
106	GOM_TRA_1PNPDE20101223_205454_000000603097_00388_46092_8738.N1	23-DEC-2010 20:54:54	Straylight	59.500	1	9Alp CMa	-1.4400	11000.	119	46092	No
107	GOM_TRA_1PNPDE20101223_205803_000000433097_00388_46092_8739.N1	23-DEC-2010 20:58:03	Straylight	42.500	7	19Bet Ori	0.10000	14000.	85	46092	No
108	GOM_TRA_1PNPDE20101223_210004_000000443097_00388_46092_8740.N1	23-DEC-2010 21:00:04	Straylight	44.000	30	46Eps Ori	1.6940	30000.	88	46092	No
109	GOM_TRA_1PNPDE20101223_210251_000000603097_00388_46092_8741.N1	23-DEC-2010 21:02:51	Tw_i_and_stray	60.000	14	58Alp Ori	0.87000	3000.0	120	46092	No
110	GOM_TRA_1PNPDE20101223_210653_000000413097_00388_46092_8742.N1	23-DEC-2010 21:06:53	Bright	40.500	176	23Zet Tau	3.0200	22000.	81	46092	No
111	GOM_TRA_1PNPDE20101223_210857_000000403097_00388_46092_8743.N1	23-DEC-2010 21:08:57	Bright	40.000	28	12Bet Tau	1.6500	15200.	80	46092	No



112	GOM_TRA_1PNPDE20101223_211208_000000613097_00388_46092_8744.N1	23-DEC-2010 21:12:08	Bright	61.000	107	37The Aur	2.6490	11000.	122	46092	No
113	GOM_TRA_1PNPDE20101223_211352_000000423097_00388_46092_8745.N1	23-DEC-2010 21:13:52	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	46092	No
114	GOM_TRA_1PNPDE20101223_213019_000000343097_00388_46092_8746.N1	23-DEC-2010 21:30:19	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	46092	No
115	GOM_TRA_1PNPDE20101223_213430_000000433097_00388_46092_8747.N1	23-DEC-2010 21:34:30	Bright	43.000	32	77Eps UMa	1.7630	11000.	86	46092	No
116	GOM_TRA_1PNPDE20101223_213724_000000623097_00388_46092_8748.N1	23-DEC-2010 21:37:24	Bright	62.000	39	85Eta UMa	1.8540	24000.	124	46092	No
117	GOM_TRA_1PNPDE20101223_214103_000000583097_00388_46092_8749.N1	23-DEC-2010 21:41:03	Bright	58.000	180	27Gam Boo	3.0400	8000.0	116	46092	No
118	GOM_TRA_1PNPDE20101223_214427_000000573097_00388_46092_8750.N1	23-DEC-2010 21:44:27	Bright	57.000	83		2.3780	11000.	114	46092	No
119	GOM_TRA_1PNPDE20101223_214805_000000673097_00388_46092_8751.N1	23-DEC-2010 21:48:05	Bright	66.500	111	8Eta Boo	2.6800	6000.0	133	46092	No
120	GOM_TRA_1PNPDE20101223_215855_000000583097_00388_46092_8763.N1	23-DEC-2010 21:58:55	Twilight	57.500	15	67Alp Vir	0.97600	28000.	115	46092	No
121	GOM_TRA_1PNPDE20101223_220325_000000473097_00388_46092_8764.N1	23-DEC-2010 22:03:25	Dark	46.500	54	5The Cen	2.0550	4500.0	93	46092	No
122	GOM_TRA_1PNPDE20101223_220536_000000283097_00388_46092_8765.N1	23-DEC-2010 22:05:36	Dark	28.000	106	9Bet Crv	2.6480	5600.0	56	46092	No
123	GOM_TRA_1PNPDE20101223_220924_000000443097_00389_46093_8766.N1	23-DEC-2010 22:09:24	Dark	44.000	64	Gam Cen	2.2000	10600.	88	46093	No
124	GOM_TRA_1PNPDE20101223_221517_000000473097_00389_46093_8767.N1	23-DEC-2010 22:15:17	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	46093	No
125	GOM_TRA_1PNPDE20101223_221830_000000423097_00389_46093_8768.N1	23-DEC-2010 22:18:30	Dark	42.000	71	Iot Car	2.2460	7700.0	84	46093	No
126	GOM_TRA_1PNPDE20101223_222015_000000423097_00389_46093_8769.N1	23-DEC-2010 22:20:15	Dark	42.000	41	Eps Car	1.8600	4100.0	84	46093	No
127	GOM_TRA_1PNPDE20101223_222315_000000443097_00389_46093_8770.N1	23-DEC-2010 22:23:15	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	46093	No
128	GOM_TRA_1PNPDE20101223_222525_000000493097_00389_46093_8771.N1	23-DEC-2010 22:25:25	Dark	49.000	70	Zet Pup	2.2460	39000.	98	46093	No
129	GOM_TRA_1PNPDE20101223_222747_000000523097_00389_46093_8772.N1	23-DEC-2010 22:27:47	Dark	51.500	117	Pi Pup	2.7060	3800.0	103	46093	No
130	GOM_TRA_1PNPDE20101223_223047_000000523097_00389_46093_8773.N1	23-DEC-2010 22:30:47	Straylight	52.000	23	21Eps CMa	1.5020	26000.	104	46093	No
131	GOM_TRA_1PNPDE20101223_223226_000000513097_00389_46093_8774.N1	23-DEC-2010 22:32:26	Straylight	50.500	179	24Omi2CMa	3.0320	24000.	101	46093	No
132	GOM_TRA_1PNPDE20101223_223508_000000563097_00389_46093_8775.N1	23-DEC-2010 22:35:08	Straylight	56.000	1	9Alp CMa	-1.4400	11000.	112	46093	No
133	GOM_TRA_1PNPDE20101223_223817_000000443097_00389_46093_8776.N1	23-DEC-2010 22:38:17	Straylight	44.000	7	19Bet Ori	0.10000	14000.	88	46093	No
134	GOM_TRA_1PNPDE20101223_224018_000000463097_00389_46093_8777.N1	23-DEC-2010 22:40:18	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	46093	No
135	GOM_TRA_1PNPDE20101223_224304_000000603097_00389_46093_8778.N1	23-DEC-2010 22:43:04	Twilight	60.000	14	58Alp Ori	0.87000	3000.0	120	46093	No
136	GOM_TRA_1PNPDE20101223_224707_000000393097_00389_46093_8779.N1	23-DEC-2010 22:47:07	Bright	39.000	176	23Zet Tau	3.0200	22000.	78	46093	No
137	GOM_TRA_1PNPDE20101223_224911_000000413097_00389_46093_8780.N1	23-DEC-2010 22:49:11	Bright	40.500	28	12Bet Tau	1.6500	15200.	81	46093	No
138	GOM_TRA_1PNPDE20101223_225222_000000423097_00389_46093_8781.N1	23-DEC-2010 22:52:22	Bright	42.000	107	37The Aur	2.6490	11000.	84	46093	No
139	GOM_TRA_1PNPDE20101223_225406_000000443097_00389_46093_8782.N1	23-DEC-2010 22:54:06	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	46093	No
140	GOM_TRA_1PNPDE20101223_231033_000000343097_00389_46093_8783.N1	23-DEC-2010 23:10:33	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	46093	No
141	GOM_TRA_1PNPDE20101223_231444_000000453097_00389_46093_8784.N1	23-DEC-2010 23:14:44	Bright	45.000	32	77Eps UMa	1.7630	11000.	90	46093	No
142	GOM_TRA_1PNPDE20101223_231738_000000413097_00389_46093_8785.N1	23-DEC-2010 23:17:38	Bright	40.500	39	85Eta UMa	1.8540	24000.	81	46093	No
143	GOM_TRA_1PNPDE20101223_232117_000000383097_00389_46093_8786.N1	23-DEC-2010 23:21:17	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	46093	No
144	GOM_TRA_1PNPDE20101223_232441_000000573097_00389_46093_8787.N1	23-DEC-2010 23:24:41	Bright	57.000	83		2.3780	11000.	114	46093	No
145	GOM_TRA_1PNPDE20101223_232819_000000673097_00389_46093_8788.N1	23-DEC-2010 23:28:19	Bright	67.000	111	8Eta Boo	2.6800	6000.0	134	46093	No
146	GOM_TRA_1PNPDE20101223_233910_000000573097_00389_46093_8782.N1	23-DEC-2010 23:39:10	Twilight	57.000	15	67Alp Vir	0.97600	28000.	114	46093	No
147	GOM_TRA_1PNPDE20101223_234339_000000463097_00389_46093_8783.N1	23-DEC-2010 23:43:39	Dark	46.000	54	5The Cen	2.0550	4500.0	92	46093	No
148	GOM_TRA_1PNPDE20101223_234551_000000283097_00389_46093_8784.N1	23-DEC-2010 23:45:51	Dark	28.000	106	9Bet Crv	2.6480	5600.0	56	46093	No
149	GOM_TRA_1PNPDE20101223_234938_000000423097_00390_46094_8785.N1	23-DEC-2010 23:49:38	Dark	42.000	64	Gam Cen	2.2000	10600.	84	46094	No
150	GOM_TRA_1PNPDE20101223_235532_000000483097_00390_46094_8786.N1	23-DEC-2010 23:55:32	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	46094	No
151	GOM_TRA_1PNPDE20101223_235844_000000483097_00390_46094_8787.N1	23-DEC-2010 23:58:44	Dark	48.000	71	Iot Car	2.2460	7700.0	96	46094	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).

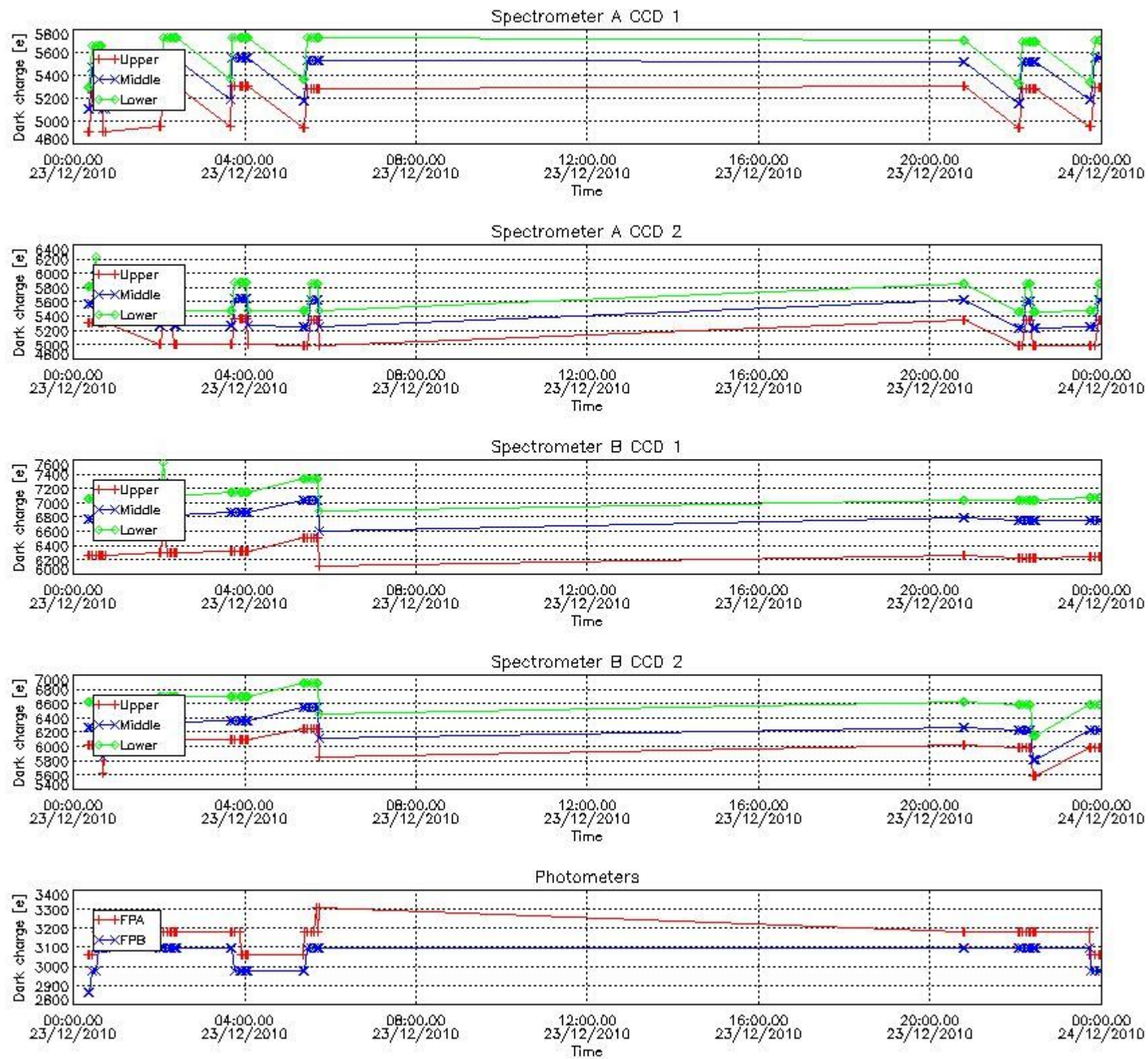
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20101223_204511_000000493097_00388_46092_8734.N1	DC map used
GOM_TRA_1PNPDE20101223_204733_000000513097_00388_46092_8735.N1	DC map used
GOM_TRA_1PNPDE20101223_205033_000000523097_00388_46092_8736.N1	DC map used
GOM_TRA_1PNPDE20101223_205212_000000493097_00388_46092_8737.N1	DC map used
GOM_TRA_1PNPDE20101223_205454_000000603097_00388_46092_8738.N1	DC map used
GOM_TRA_1PNPDE20101223_205803_000000433097_00388_46092_8739.N1	DC map used
GOM_TRA_1PNPDE20101223_210004_000000443097_00388_46092_8740.N1	DC map used
GOM_TRA_1PNPDE20101223_210251_000000603097_00388_46092_8741.N1	DC map used
GOM_TRA_1PNPDE20101223_210653_000000413097_00388_46092_8742.N1	DC map used
GOM_TRA_1PNPDE20101223_210857_000000403097_00388_46092_8743.N1	DC map used
GOM_TRA_1PNPDE20101223_211208_000000613097_00388_46092_8744.N1	DC map used
GOM_TRA_1PNPDE20101223_211352_000000423097_00388_46092_8745.N1	DC map used
GOM_TRA_1PNPDE20101223_213019_000000343097_00388_46092_8746.N1	DC map used
GOM_TRA_1PNPDE20101223_213430_000000433097_00388_46092_8747.N1	DC map used

GOM_TRA_1PNPDE20101223_213724_000000623097_00388_46092_8748.N1	DC map used
GOM_TRA_1PNPDE20101223_214103_000000583097_00388_46092_8749.N1	DC map used
GOM_TRA_1PNPDE20101223_214427_000000573097_00388_46092_8750.N1	DC map used
GOM_TRA_1PNPDE20101223_214805_000000673097_00388_46092_8751.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)

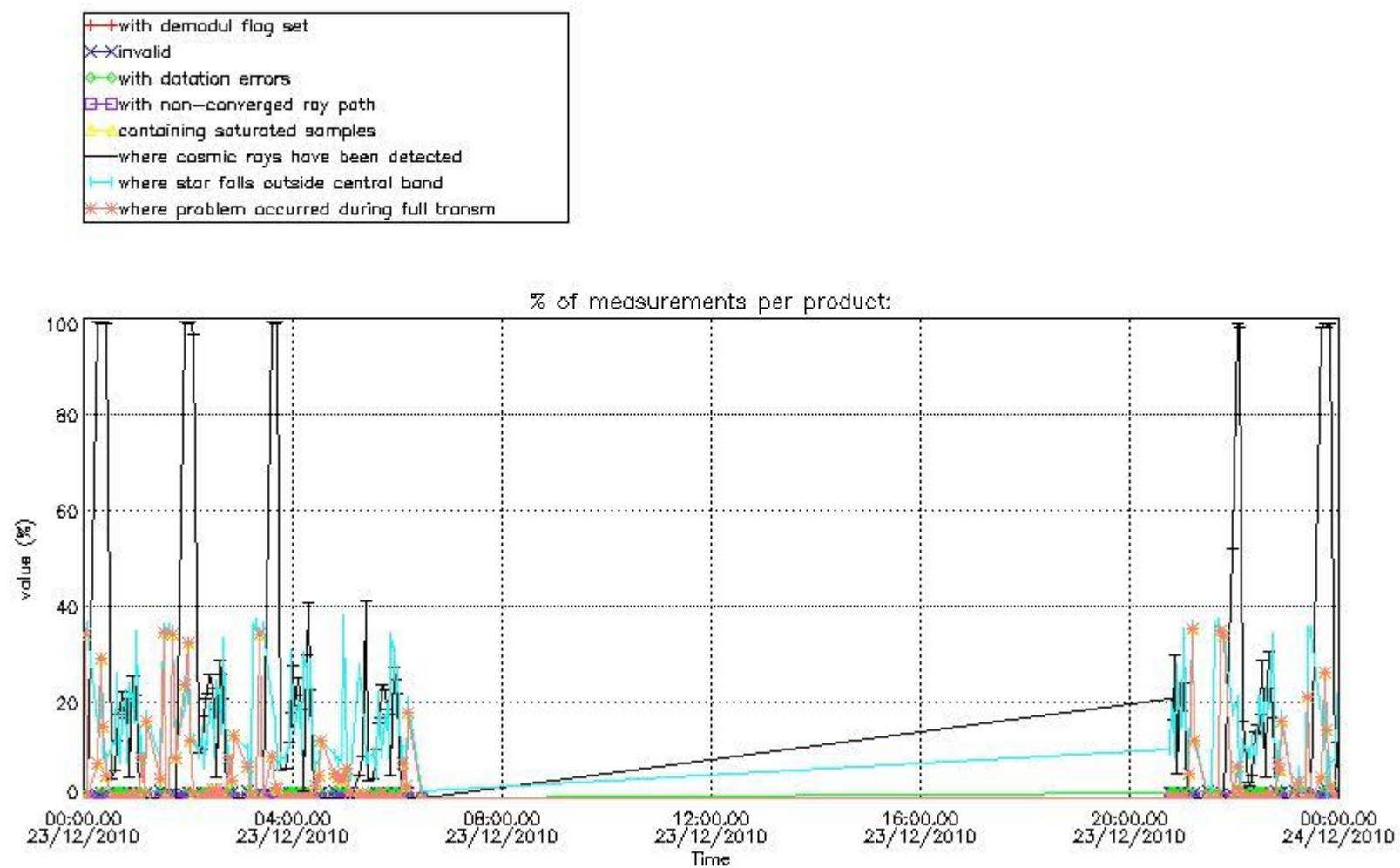


at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

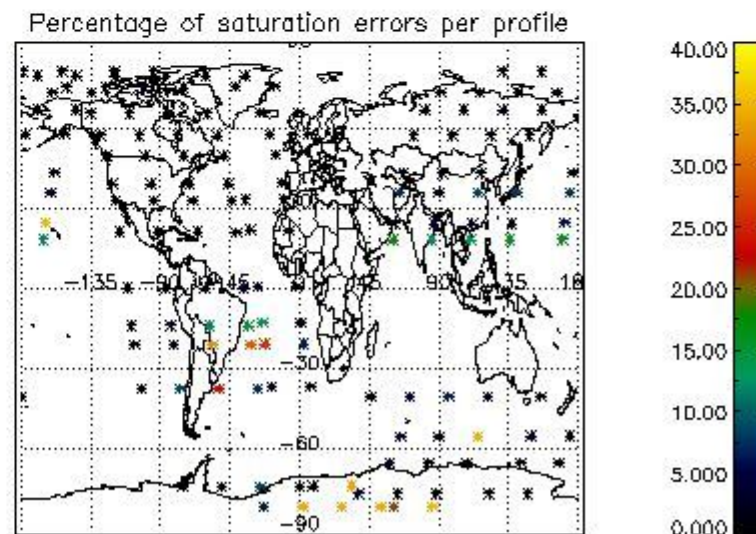
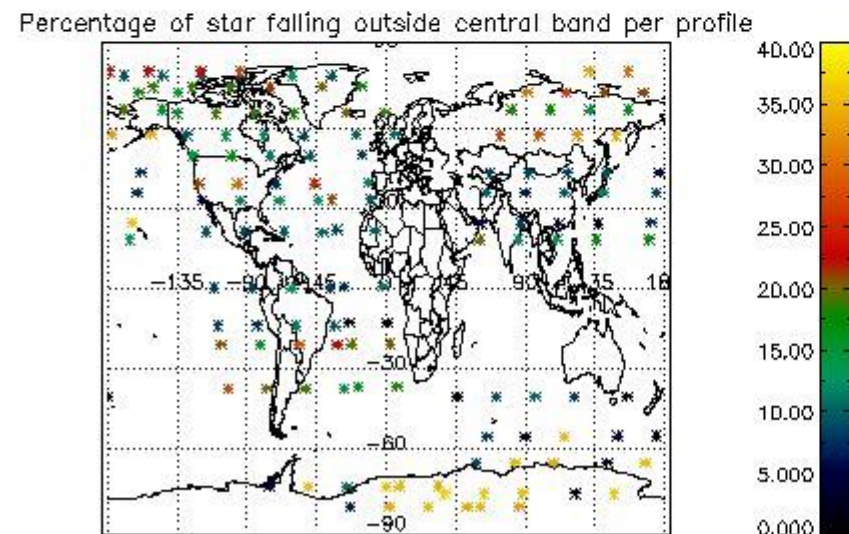
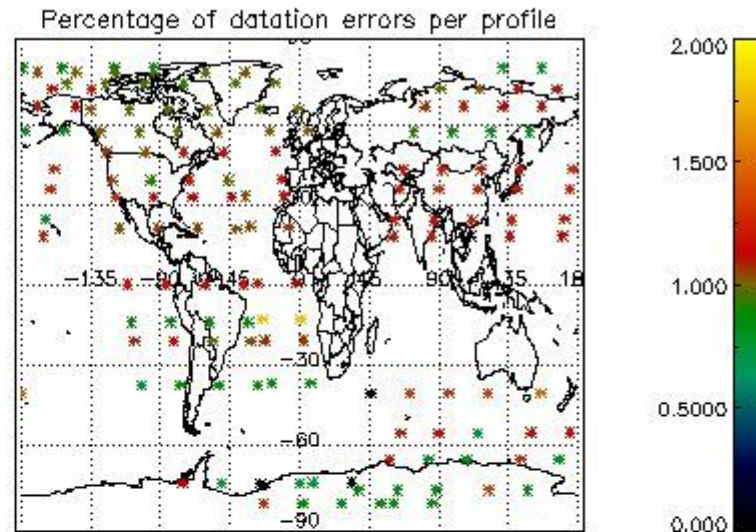
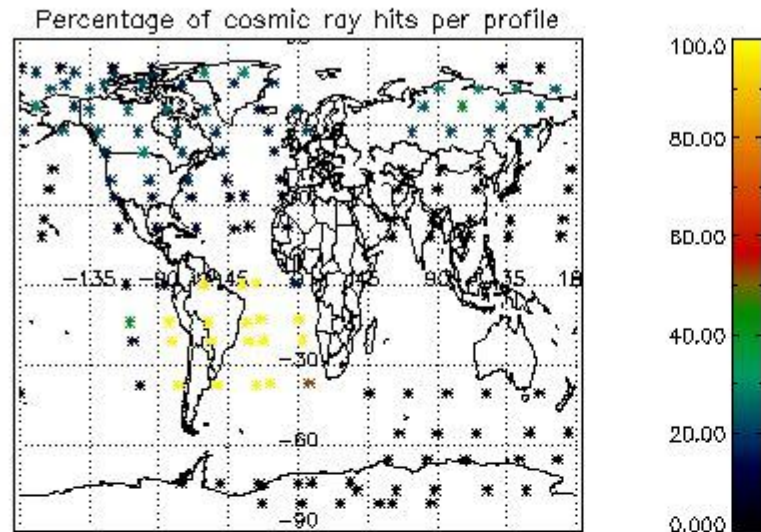
At least one measurement with demodulation flag set:	60.2649 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





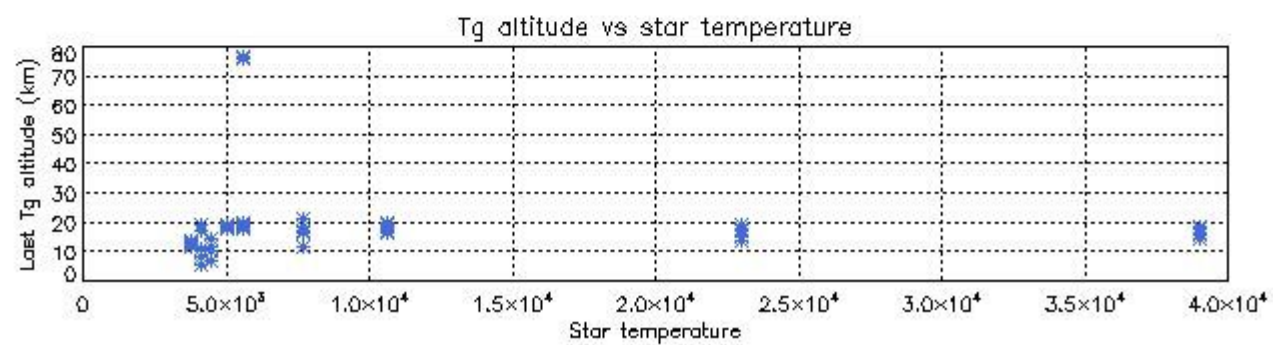
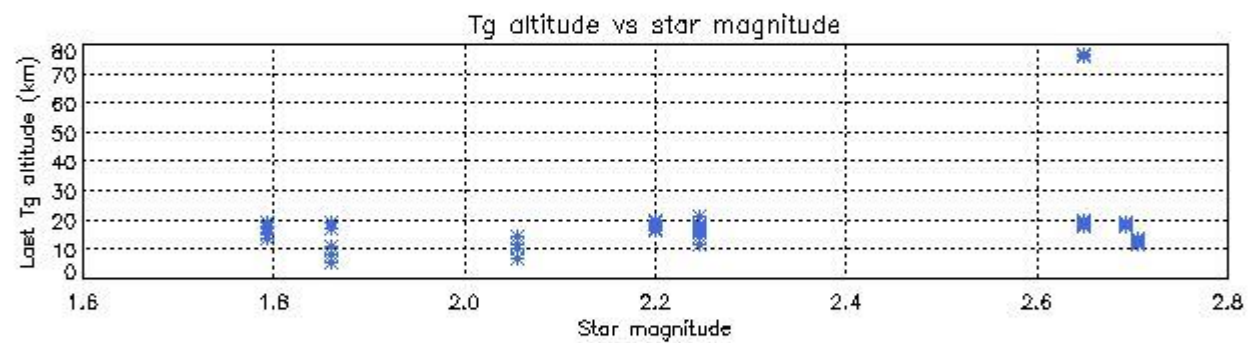
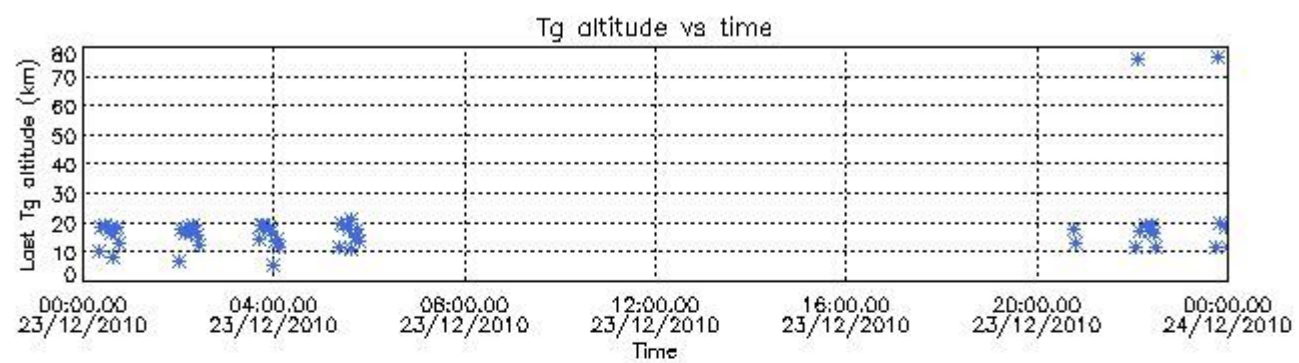
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.004	15.048	NaN
St. deviation:	12.299	8.1247	NaN
Maximum:	76.393	29.777	NaN
Minimum:	5.2589	3.4017	NaN
Number of data:	52.000	57.000	NaN

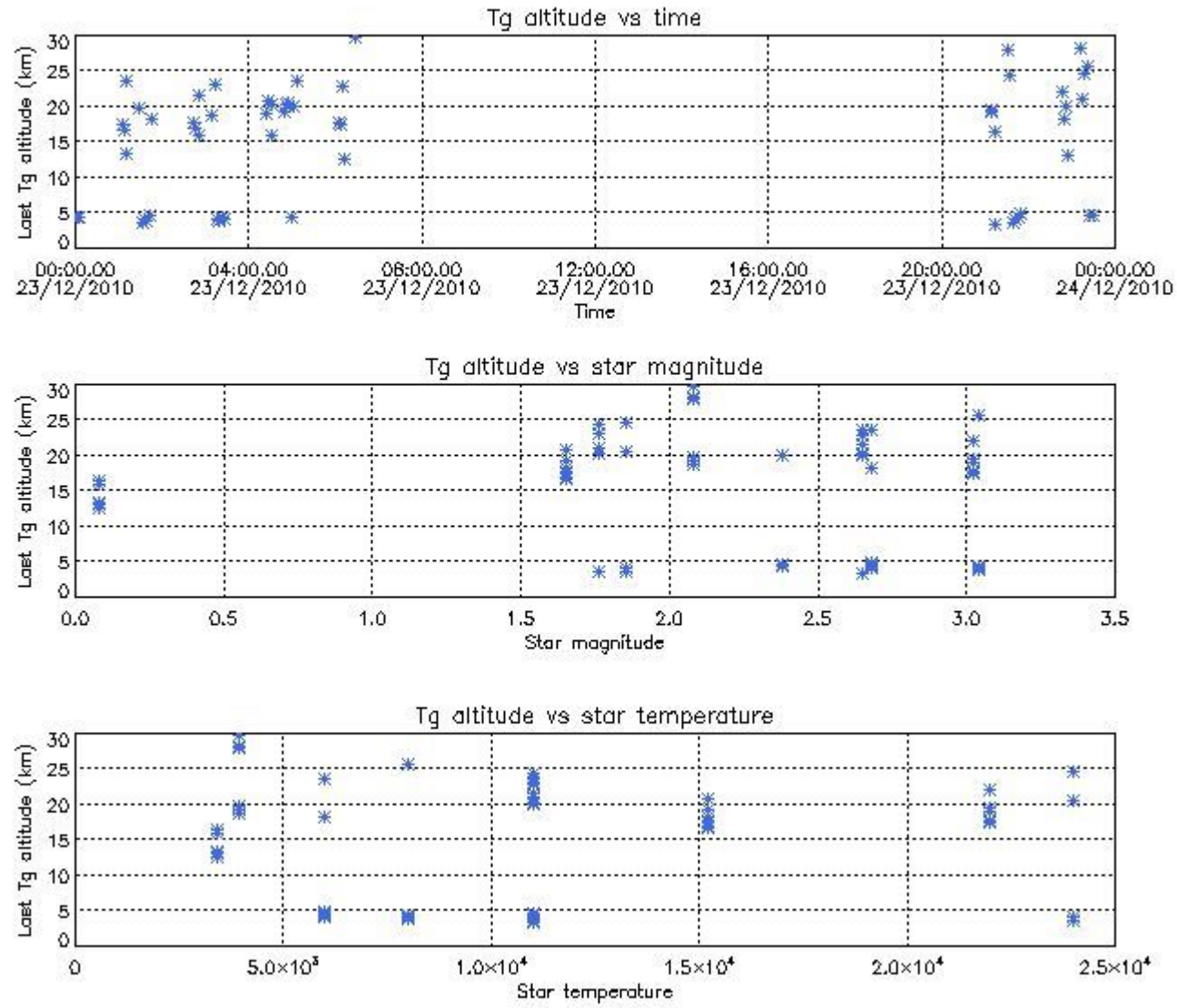
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



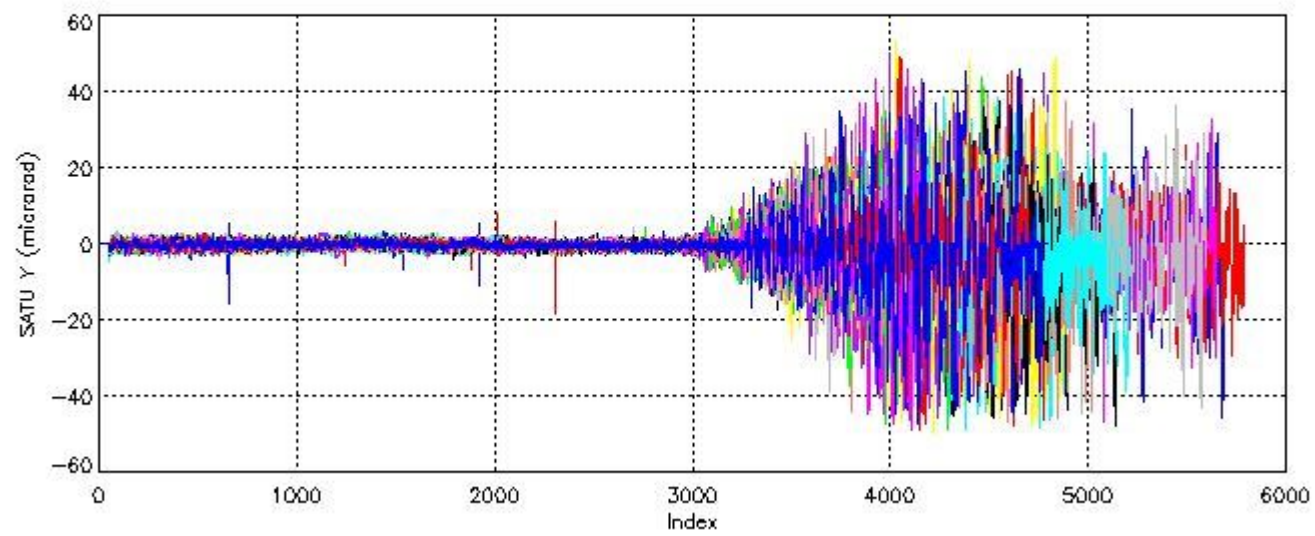
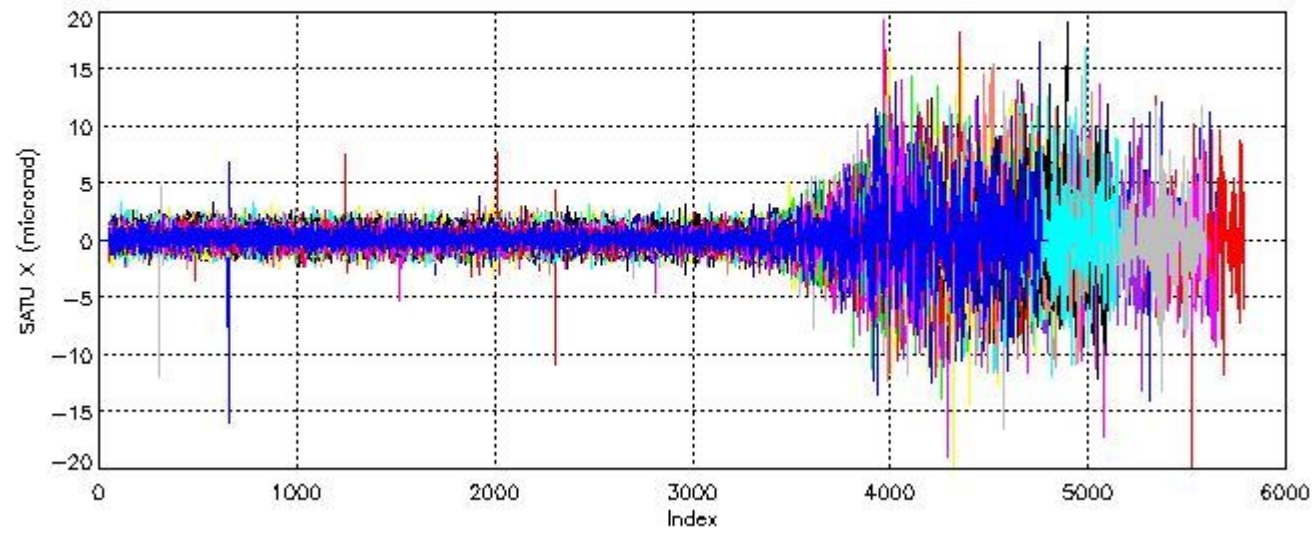
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.24831	-0.27879	0.16320	-0.23784
St. deviation:	0.51370	0.69605	0.78918	0.95143
Maximum:	6.8000	5.4000	5.8000	5.7000
Minimum:	-16.000	-15.800	-5.3000	-6.8000

Number of data:	56600.	56600.	54700.	54700.
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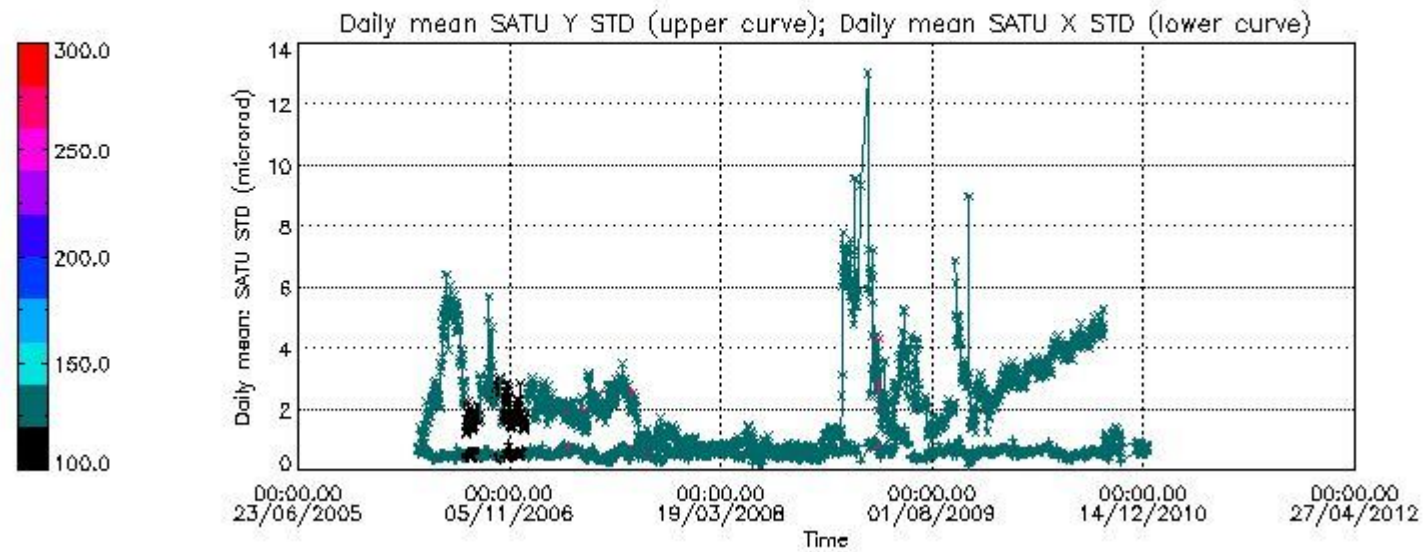
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

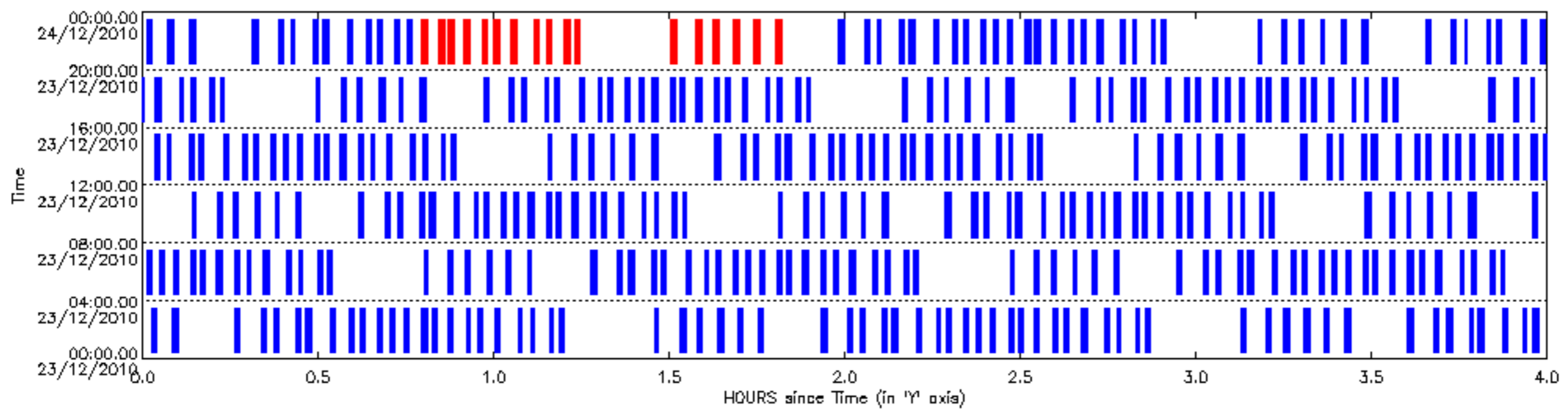
Lower curve: STD of SATU X axis



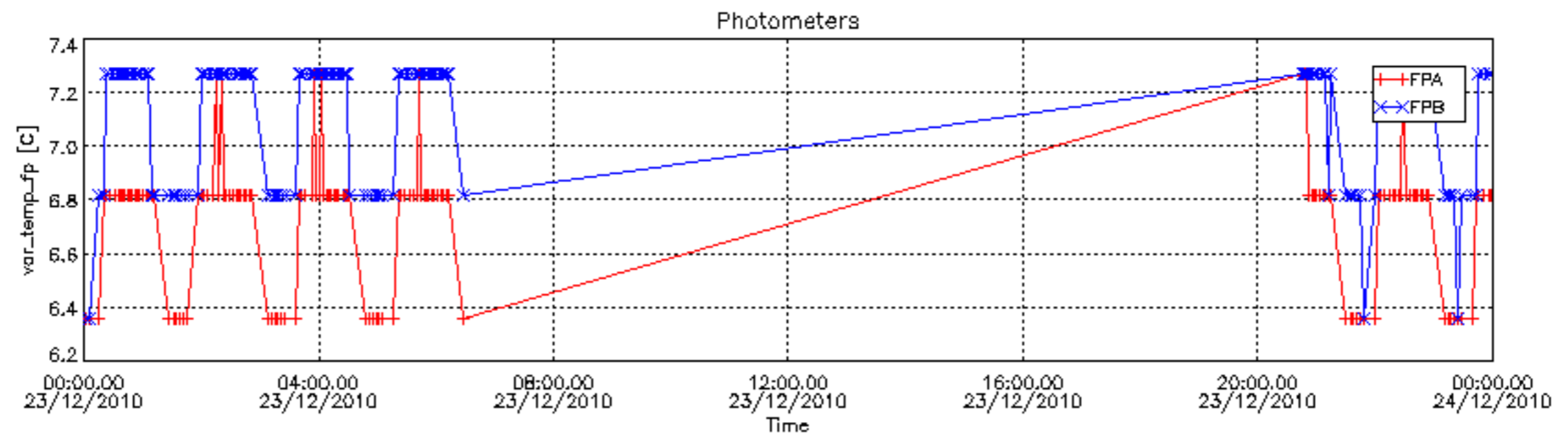
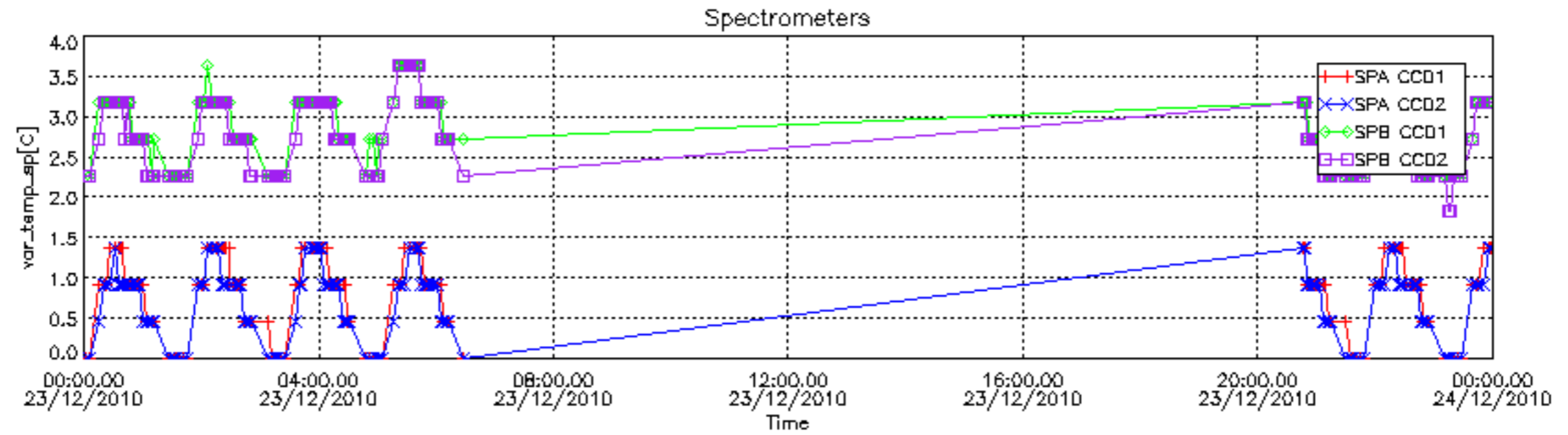
### 8. Auxiliary Data Files used for the production reported in section 2.4

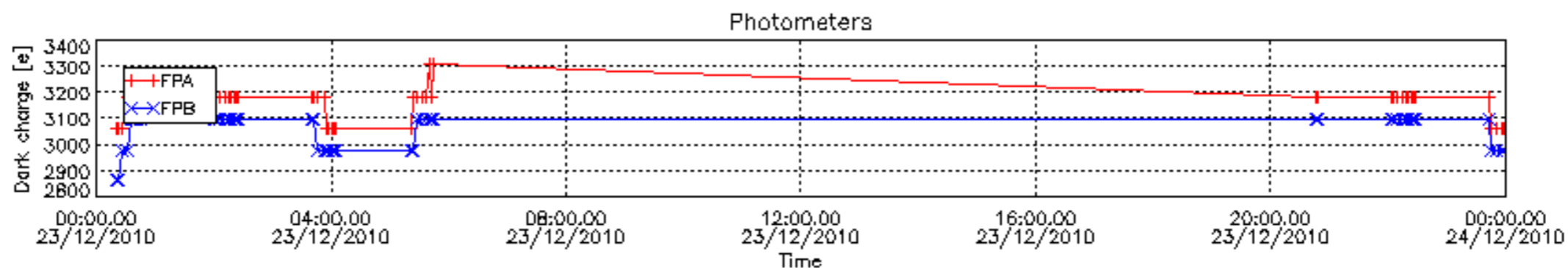
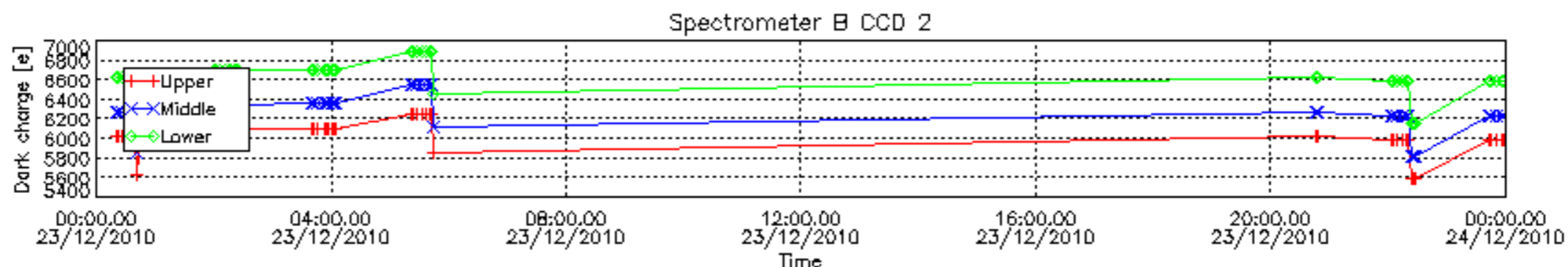
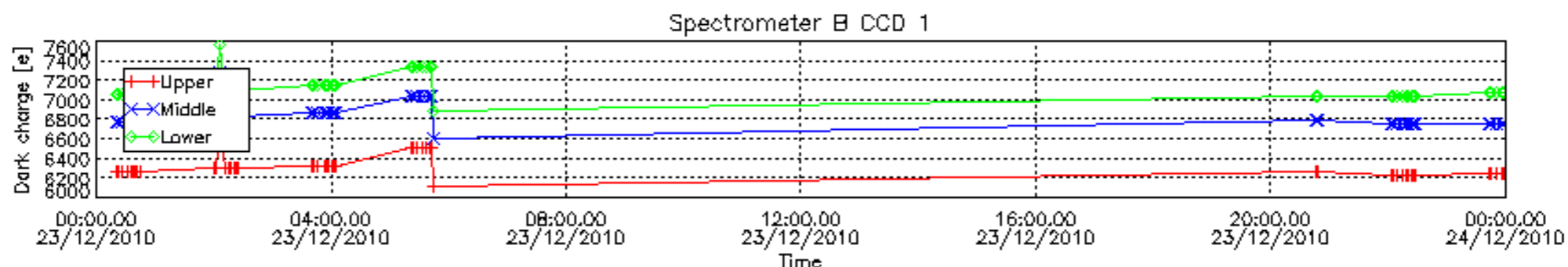
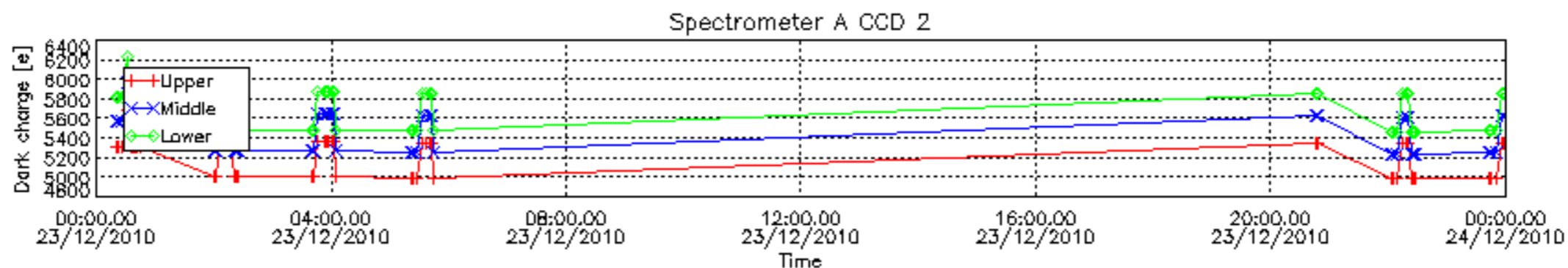
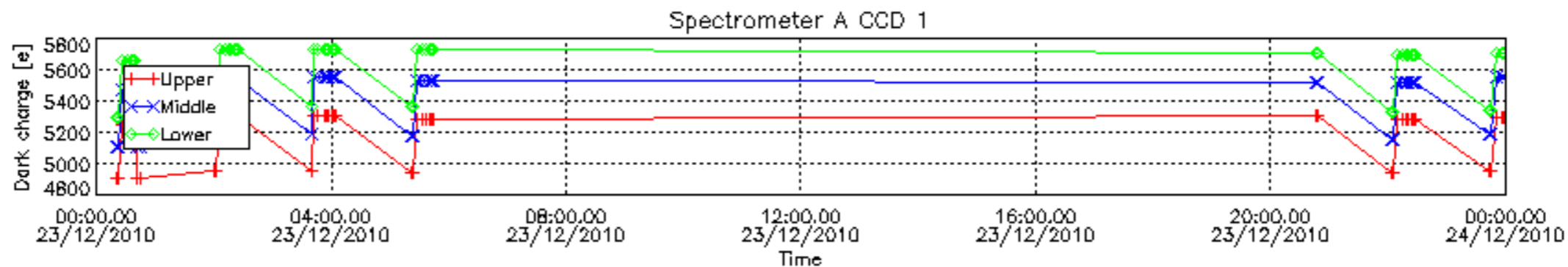
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

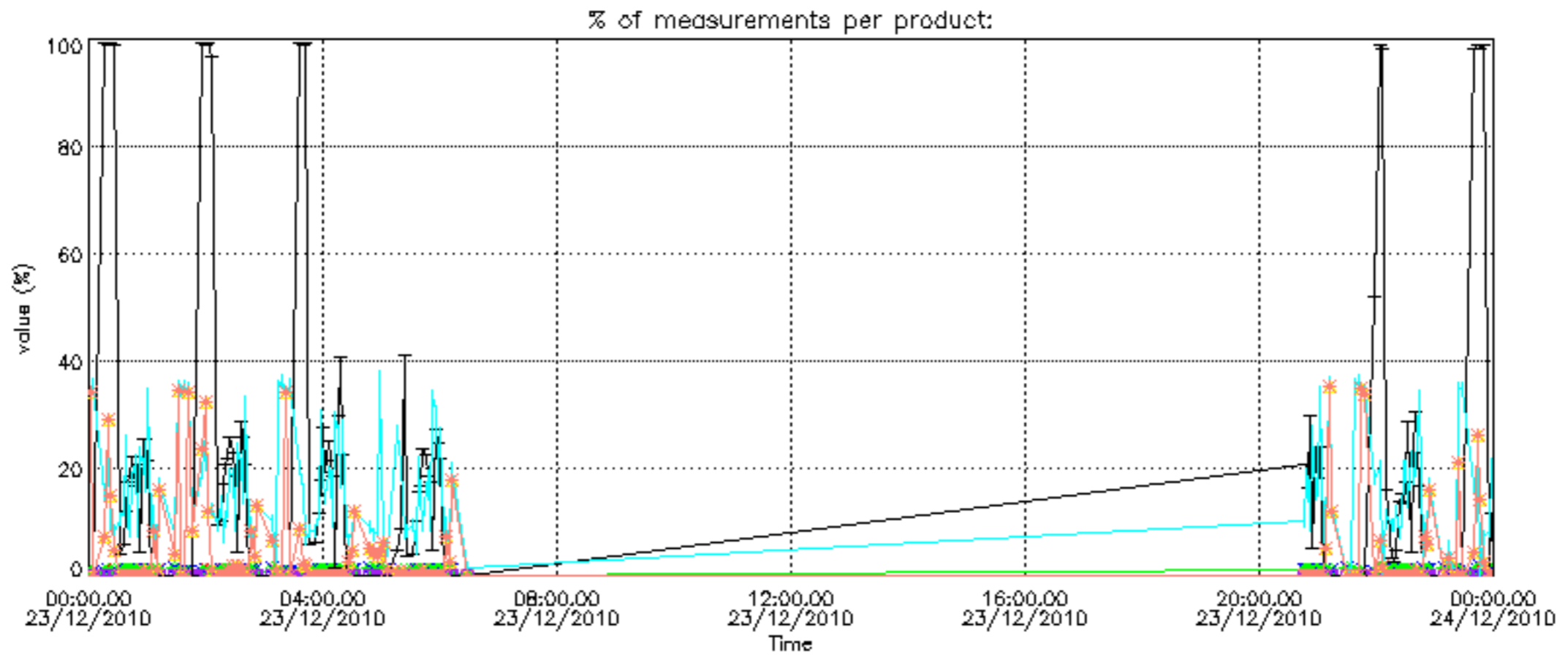
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	23-DEC-2010 00:01:22
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101220_121136_20101219_000000_20500101_000000	1	23-DEC-2010 00:01:22
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	23-DEC-2010 00:01:22
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-DEC-2010 00:01:22
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	23-DEC-2010 00:01:22
ECMWF_FILE	AUX_ECF_AXNECM20101222_054114_20101222_210000_20101223_090000	1	23-DEC-2010 00:01:22
ECMWF_FILE	AUX_ECF_AXNECM20101222_172114_20101223_030000_20101223_150000	49	23-DEC-2010 03:07:45
ECMWF_FILE	AUX_ECF_AXNECM20101223_054116_20101223_150000_20101224_030000	102	23-DEC-2010 20:45:11
ECMWF_FILE	AUX_ECF_AXNECM20101223_054116_20101223_210000_20101224_090000	120	23-DEC-2010 21:58:55
OPTIONAL_ECMWF_FILE	MISSING	1	23-DEC-2010 00:01:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101222_223126_000057383097_00374_46078_2183.N1	1	23-DEC-2010 00:01:22
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20101222_221857_20101222_192527_20110101_213921	3	23-DEC-2010 00:15:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101223_014801_000041443097_00376_46080_2185.N1	29	23-DEC-2010 01:55:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101223_030224_000057383097_00377_46081_2186.N1	49	23-DEC-2010 03:07:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101223_044321_000057383097_00378_46082_2187.N1	75	23-DEC-2010 04:47:59
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20101222_221857_20101222_192527_20110101_213921	102	23-DEC-2010 20:45:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101223_215406_000057383097_00388_46092_2189.N1	120	23-DEC-2010 21:58:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101223_233503_000057383097_00389_46093_2190.N1	146	23-DEC-2010 23:39:10





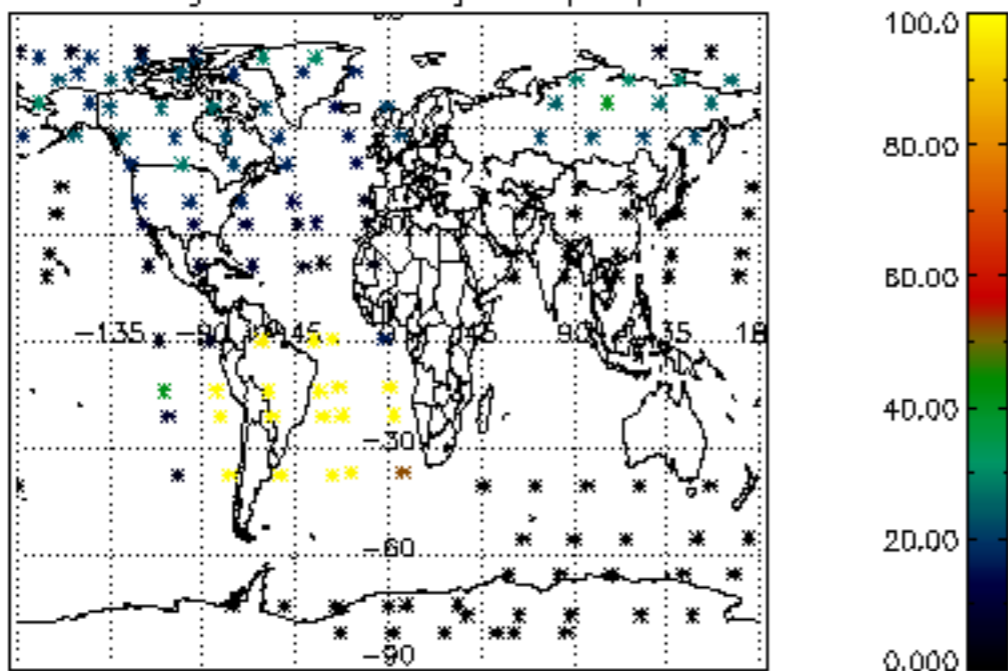




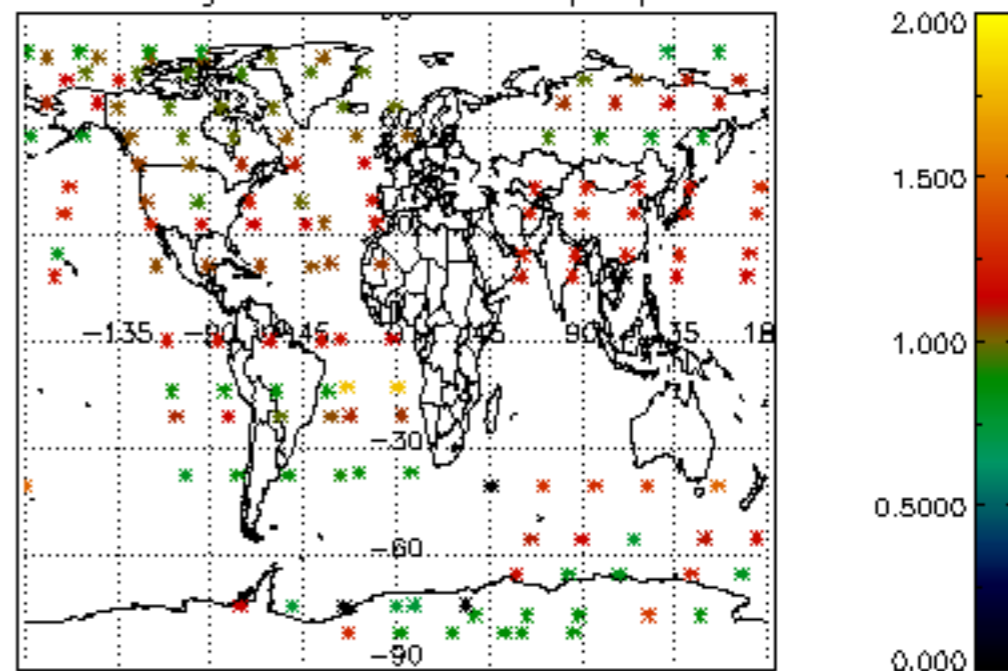




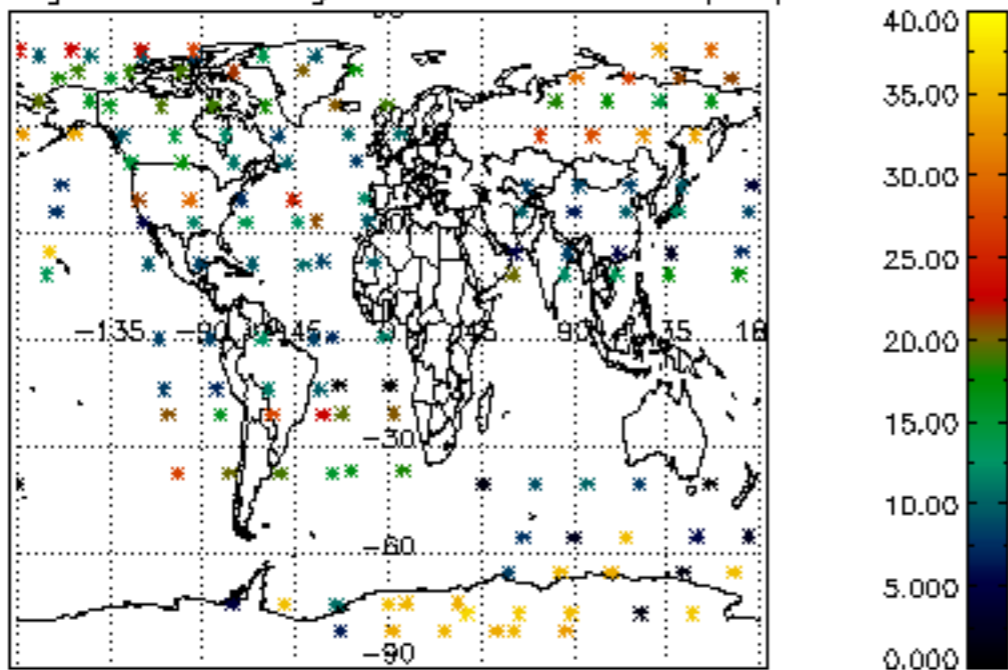
Percentage of cosmic ray hits per profile



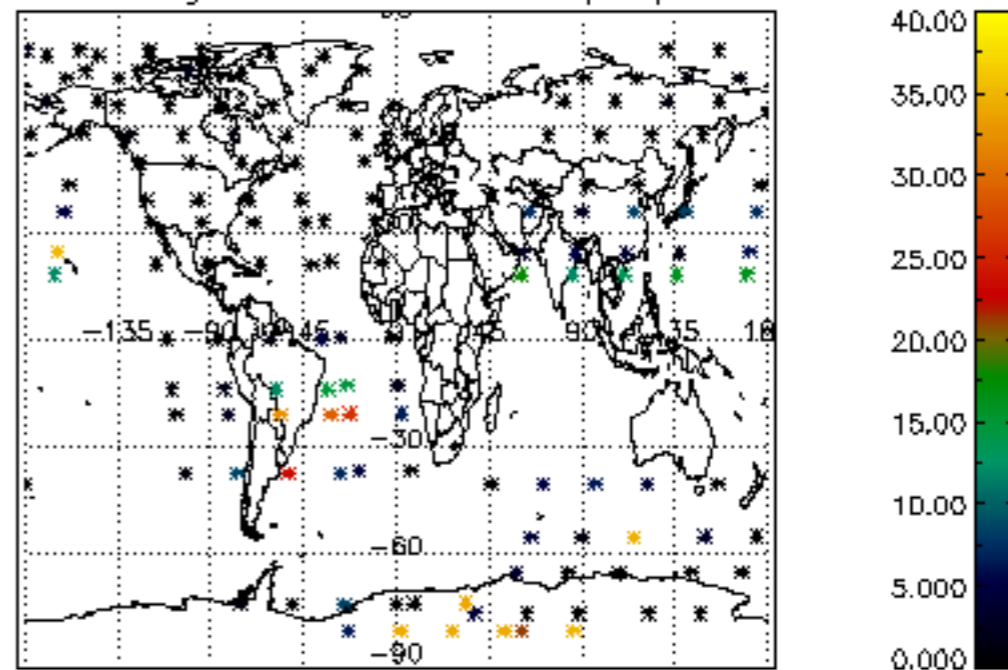
Percentage of datation errors per profile



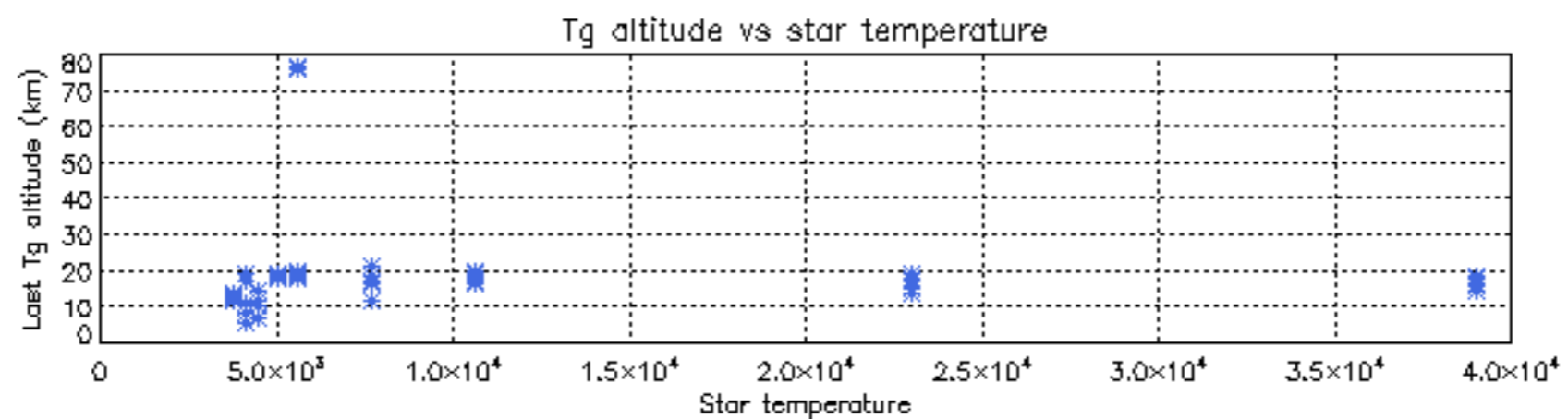
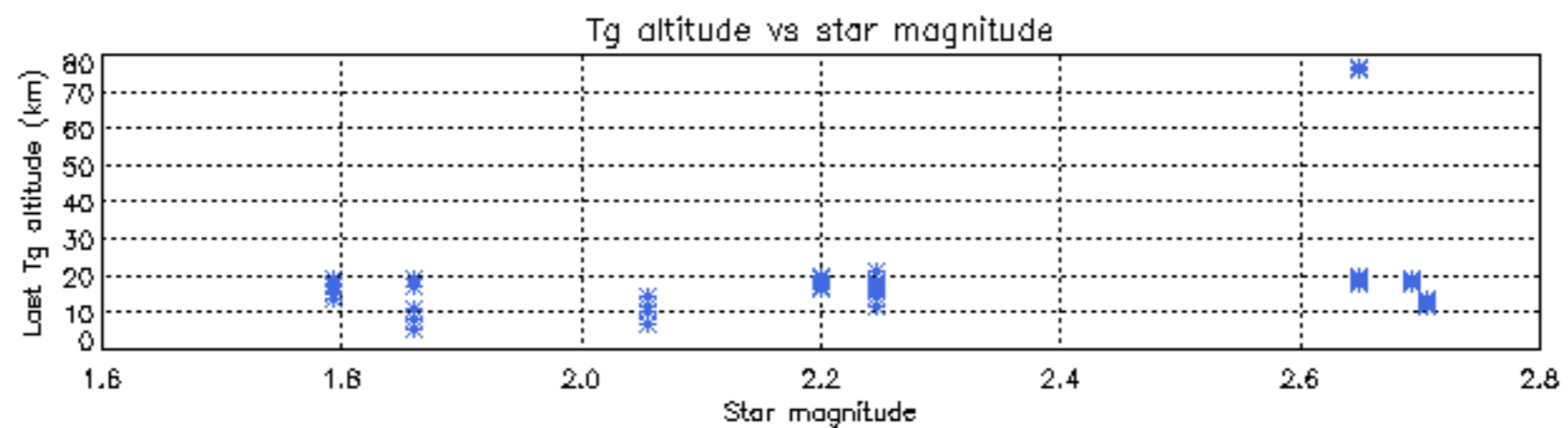
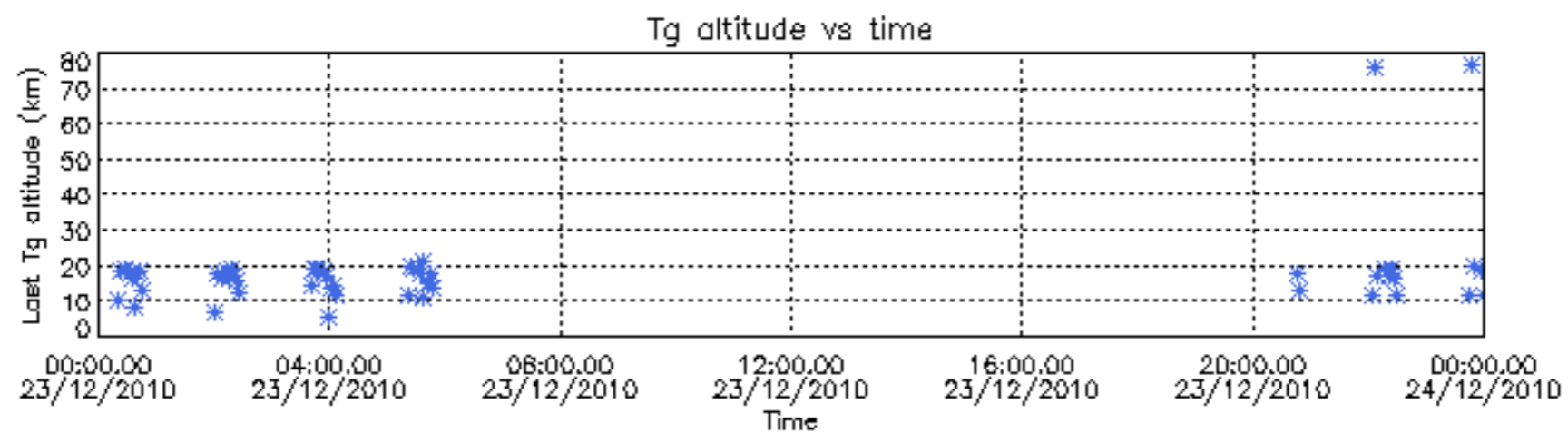
Percentage of star falling outside central band per profile



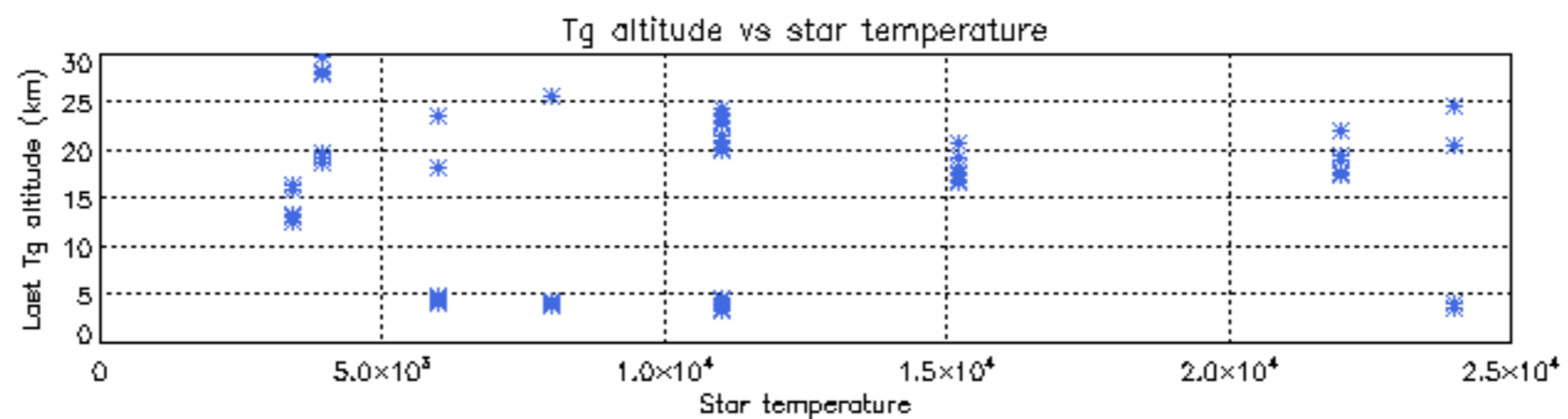
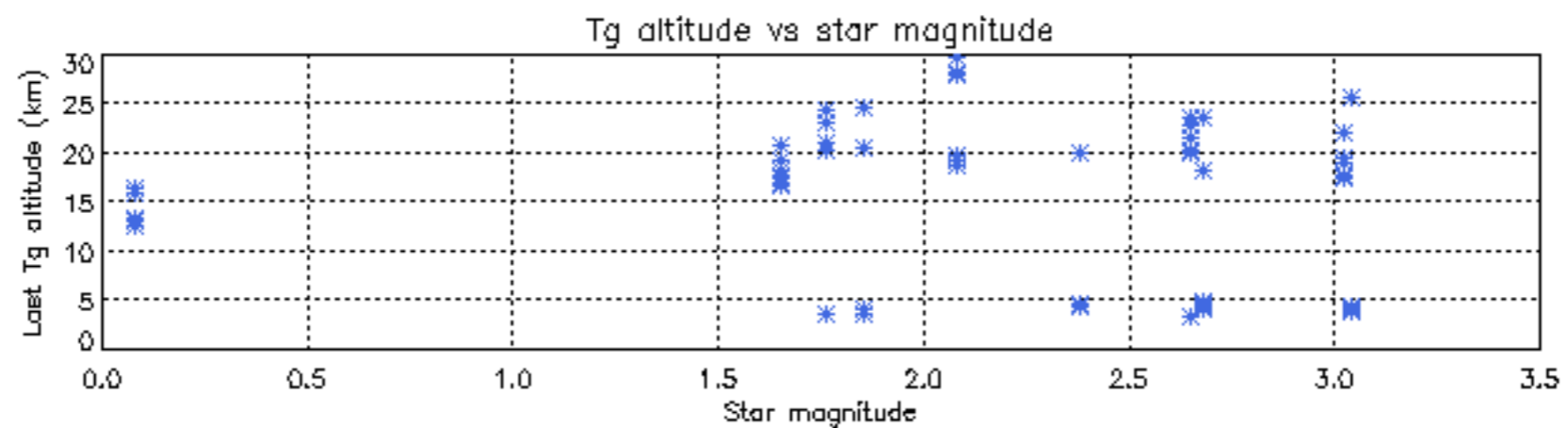
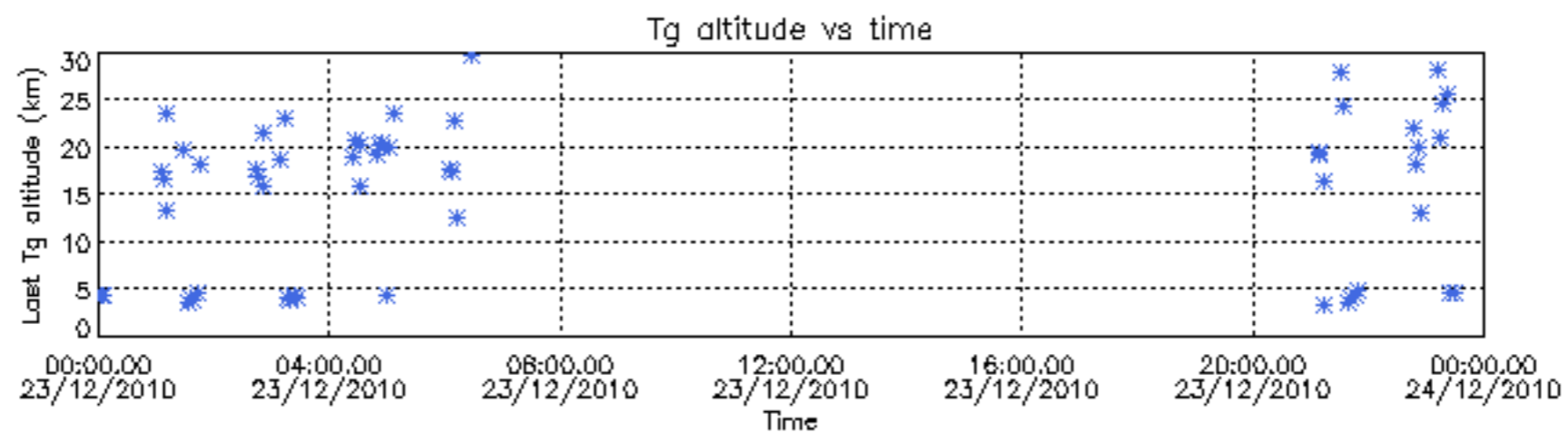
Percentage of saturation errors per profile

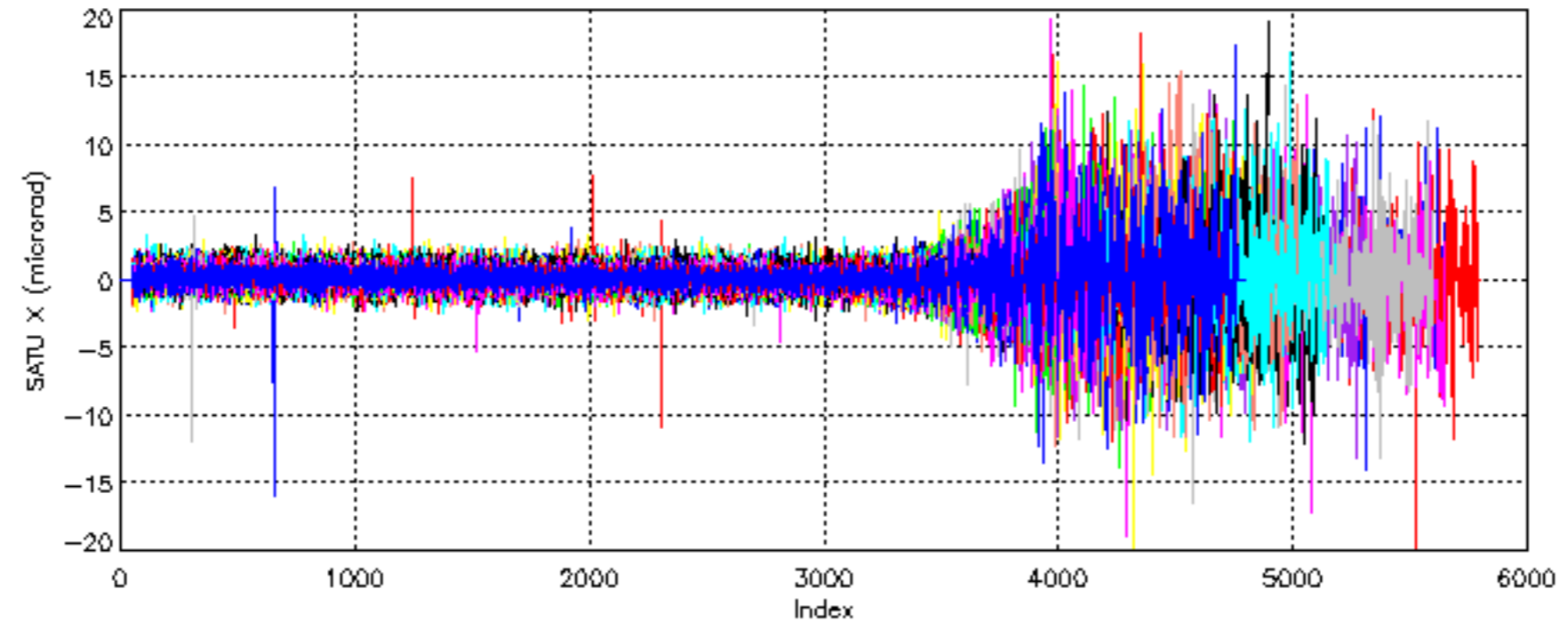


Tangent altitude at which the star is lost

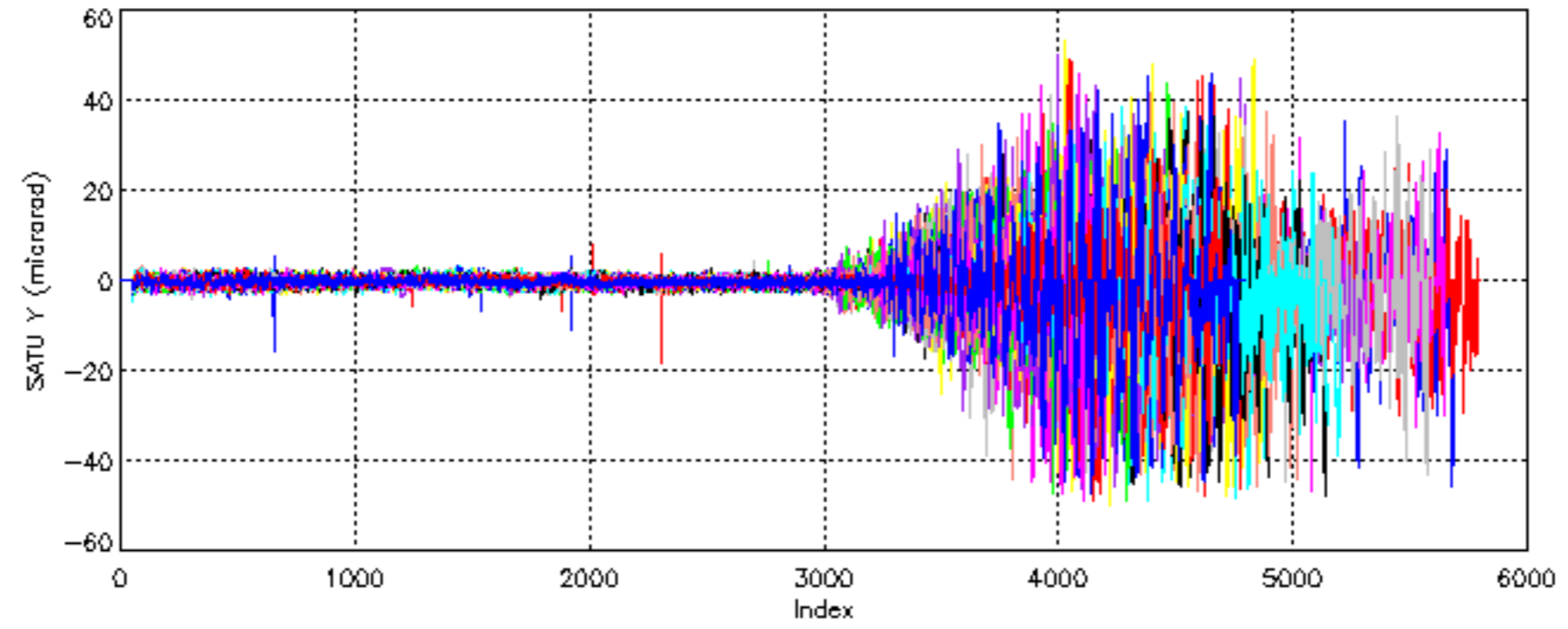


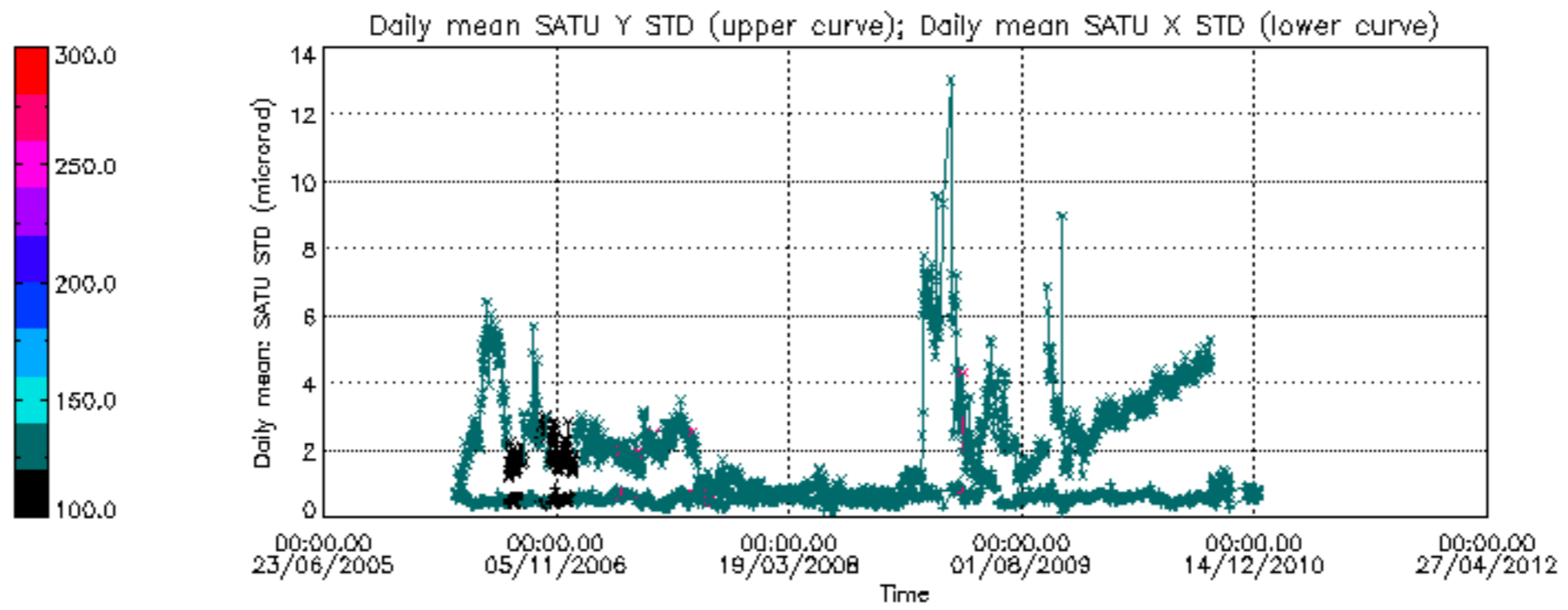
Tangent altitude at which the star is lost











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 14; 2601.4; 01-DEC-2010 01:15:38; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;45764  
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 13; 799.1; 01-DEC-2010 04:06:04; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;45766  
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 13; 2718.1; 02-DEC-2010 20:43:40; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;45790  
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11; 130.7; 05-DEC-2010 08:08:57; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45826
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16; 1206.2; 05-DEC-2010 08:26:53; Dark ; 44.5; 108; Alp Col ; 2.65; 15200;occ; 89; 0;45826
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13; 4120.0; 05-DEC-2010 09:15:27; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;45826
14; 4329.4; 05-DEC-2010 09:18:56; Bright; 39.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 79; 0;45826
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16; 4861.3; 05-DEC-2010 09:27:48; Bright; 44.5; 138; 47Eps Vir ; 2.83; 4700;occ; 89; 0;45826
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 23; 6843.8; 05-DEC-2010 10:00:50; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;45827  
 24; 6972.4; 05-DEC-2010 10:02:59; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;45827  
 25; 7220.7; 05-DEC-2010 10:07:07; Dark ; 44.5; 108; Alp Col ; 2.65; 15200;occ; 89; 0;45827  
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 7; 2445.0; 05-DEC-2010 10:27:46; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;45827  
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 23; 6664.7; 05-DEC-2010 11:38:05; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;45828  
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 26; 7221.1; 05-DEC-2010 11:47:22; Dark ; 44.0; 108; Alp Col ; 2.65; 15200;occ; 88; 0;45828  
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 5; 2199.7; 05-DEC-2010 12:03:54; Dark ; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;45828  
 6; 2307.3; 05-DEC-2010 12:05:42; Bright; 34.0; 146; 25Eta Tau ; 2.87; 15200;occ; 68; 0;45828  
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 9; 2712.4; 05-DEC-2010 12:12:27; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;45828  
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 12; 3870.8; 05-DEC-2010 12:31:46; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;45828  
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 15; 4329.3; 05-DEC-2010 12:39:24; Bright; 39.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 79; 0;45828  
 16; 4666.7; 05-DEC-2010 12:45:01; Bright; 37.0; 111; 8Eta Boo ; 2.68; 6000;occ; 74; 0;45828  
 17; 4862.3; 05-DEC-2010 12:48:17; Bright; 62.0; 138; 47Eps Vir ; 2.83; 4700;occ; 124; 0;45828  
 18; 5135.6; 05-DEC-2010 12:52:50; Dark ; 53.5; 121; 29Gam Vir ; 2.74; 7200;occ; 107; 0;45828  
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22; 6473.7; 05-DEC-2010 14:55:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45830  
23; 6666.6; 05-DEC-2010 14:58:35; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45830  
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25; 6974.5; 05-DEC-2010 15:03:43; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;45830  
26; 7221.7; 05-DEC-2010 15:07:50; Dark ; 42.5; 108; Alp Col ; 2.65; 15200;occ; 85; 0;45830

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4; 1914.2; 05-DEC-2010 16:59:51; Dark ; 52.0; 72; 34Del Ori ; 2.25; 30000;occ; 104; 0;45831  
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 23; 6494.8; 07-DEC-2010 10:21:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45856  
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 23; 5616.4; 07-DEC-2010 18:28:20; Dark ; 53.5; 171; 2Eps Crv ; 3.00; 4250;occ; 107; 0;45860  
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23; 3685.9; 16-DEC-2010 00:43:59; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;45979
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 27; 4316.8; 16-DEC-2010 00:54:29; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;45979  
 28; 4508.9; 16-DEC-2010 00:57:42; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;45979  
 29; 4707.3; 16-DEC-2010 01:01:00; Bright; 60.0; 111; 8Eta Boo ; 2.68; 6000;occ; 120; 0;45979  
 30; 4943.7; 16-DEC-2010 01:04:56; Bright; 53.5; 138; 47Eps Vir ; 2.83; 4700;occ; 107; 0;45979  
 31; 5301.6; 16-DEC-2010 01:10:54; Dark ; 30.0; 15; 67Alp Vir ; 0.98; 28000;occ; 60; 0;45979

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 16; 569.4; 15-DEC-2010 07:09:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45969  
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 19; 1052.2; 15-DEC-2010 07:17:45; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;45969  
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 7; 2437.3; 15-DEC-2010 07:40:50; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;45969  
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 12; 4117.2; 15-DEC-2010 08:08:50; Bright; 40.5; 39; 85Eta UMa ; 1.85; 24000;occ; 81; 0;45969  
 13; 4316.0; 15-DEC-2010 08:12:09; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;45969  
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 15; 4704.3; 15-DEC-2010 08:18:37; Bright; 39.5; 111; 8Eta Boo ; 2.68; 6000;occ; 79; 0;45969  
 16; 4937.4; 15-DEC-2010 08:22:30; Bright; 73.0; 138; 47Eps Vir ; 2.83; 4700;occ; 146; 0;45969  
 17; 5294.5; 15-DEC-2010 08:28:27; Dark ; 46.0; 15; 67Alp Vir ; 0.98; 28000;occ; 92; 0;45969  
 18; 5503.8; 15-DEC-2010 08:31:56; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;45969  
 19; 5649.1; 15-DEC-2010 08:34:22; Dark ; 53.0; 106; 9Bet Crv ; 2.65; 5600;occ; 106; 0;45969  
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 22; 6040.7; 15-DEC-2010 08:40:53; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;45970  
 23; 6268.5; 15-DEC-2010 08:44:41; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;45970  
 24; 6498.0; 15-DEC-2010 08:48:30; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;45970  
 25; 6584.1; 15-DEC-2010 08:49:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45970  
 26; 6775.4; 15-DEC-2010 08:53:08; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;45970  
 27; 6906.4; 15-DEC-2010 08:55:19; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;45970  
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13; 4507.5; 15-DEC-2010 09:55:34; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;45970
14; 4704.7; 15-DEC-2010 09:58:51; Bright; 60.0; 111; 8Eta Boo ; 2.68; 6000;occ; 120; 0;45970
15; 4938.0; 15-DEC-2010 10:02:45; Bright; 74.0; 138; 47Eps Vir ; 2.83; 4700;occ; 148; 0;45970
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23; 6584.8; 15-DEC-2010 10:30:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45971
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25; 6906.6; 15-DEC-2010 10:35:33; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;45971
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27; 7262.9; 15-DEC-2010 10:41:29; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;45971
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19; 5651.3; 15-DEC-2010 11:54:52; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;45971
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21; 6042.1; 15-DEC-2010 12:01:23; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;45972
22; 6270.1; 15-DEC-2010 12:05:11; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45972
23; 6499.1; 15-DEC-2010 12:09:00; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;45972
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3; 1873.2; 15-DEC-2010 12:32:08; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;45972
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13; 4316.4; 15-DEC-2010 13:12:51; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;45972
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27; 6907.5; 15-DEC-2010 13:56:02; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;45973
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23; 2777.9; 16-DEC-2010 02:09:05; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;45980
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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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27; 4116.6; 16-DEC-2010 02:31:23; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 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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43; 7073.0; 16-DEC-2010 03:20:40; Dark ; 52.5; 117; Pi Pup ; 2.71; 3800;occ; 105; 0;45981
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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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9; 2056.6; 16-DEC-2010 20:19:38; Dark ; 55.5; 14; 58Alp Ori ; 0.87; 3000;occ; 111; 0;45991
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 22; 2770.5; 16-DEC-2010 23:51:59; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;45993  
 23; 3685.5; 17-DEC-2010 00:07:14; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;45993  
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 17; 5514.8; 16-DEC-2010 09:35:38; Dark ; 49.0; 169; 46Gam Hya ; 2.99; 4700;occ; 98; 0;45984  
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28; 7077.0; 16-DEC-2010 15:02:22; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;45988  
29; 7270.2; 16-DEC-2010 15:05:35; Dark ; 51.5; 23; 21Eps CMa ; 1.50; 26000;occ; 103; 0;45988  
30; 7376.7; 16-DEC-2010 15:07:21; Dark ; 24.5; 179; 240mi2CMa ; 3.03; 24000;occ; 49; 0;45988

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

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



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

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

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

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

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1;-2311.1; 17-DEC-2010 05:08:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 35;45996  
2;-2056.1; 17-DEC-2010 05:12:29; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0;45996  
3;-1898.6; 17-DEC-2010 05:15:06; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;45996  
4;-1695.9; 17-DEC-2010 05:18:29; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;45996  
5;-1502.2; 17-DEC-2010 05:21:43; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45996  
6;-1301.5; 17-DEC-2010 05:25:04; Bright; 42.5; 111; 8Eta Boo ; 2.68; 6000;occ; 85; 0;45996  
7; -699.9; 17-DEC-2010 05:35:05; Dark ; 57.0; 15; 67Alp Vir ; 0.98; 28000;occ; 114; 0;45996  
8; -413.3; 17-DEC-2010 05:39:52; Dark ; 48.0; 163; 7Del Crv ; 2.94; 11000;occ; 96; 0;45996  
9; -335.7; 17-DEC-2010 05:41:09; Dark ; 55.5; 106; 9Bet Crv ; 2.65; 5600;occ; 111; 0;45996  
10; -53.4; 17-DEC-2010 05:45:52; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;45996  
11; 45.2; 17-DEC-2010 05:47:30; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;45997  
12; 278.3; 17-DEC-2010 05:51:23; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;45997  
13; 500.4; 17-DEC-2010 05:55:06; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;45997  
14; 590.2; 17-DEC-2010 05:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45997  
15; 780.3; 17-DEC-2010 05:59:45; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45997  
16; 907.7; 17-DEC-2010 06:01:53; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;45997  
17; 1067.7; 17-DEC-2010 06:04:33; Dark ; 52.5; 117; Pi Pup ; 2.71; 3800;occ; 105; 0;45997  
18; 1259.8; 17-DEC-2010 06:07:45; Dark ; 52.0; 23; 21Eps CMa ; 1.50; 26000;occ; 104; 0;45997  
19; 1365.4; 17-DEC-2010 06:09:30; Dark ; 44.0; 179; 240mi2CMa ; 3.03; 24000;occ; 88; 0;45997  
20; 1528.1; 17-DEC-2010 06:12:13; Dark ; 51.5; 47; 2Bet CMa ; 1.98; 28000;occ; 103; 0;45997  
21; 1738.6; 17-DEC-2010 06:15:44; Dark ; 56.0; 7; 19Bet Ori ; 0.10; 14000;occ; 112; 0;45997  
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23; 3685.1; 18-DEC-2010 01:10:44; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;46008
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13; 3937.3; 22-DEC-2010 17:10:37; Bright; 45.5; 32; 77Eps UMa ; 1.76; 11000;occ; 91; 0;46075
14; 4108.4; 22-DEC-2010 17:13:28; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;46075
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16; 4526.0; 22-DEC-2010 17:20:25; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;46075
17; 4740.4; 22-DEC-2010 17:24:00; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;46075
18; 5381.2; 22-DEC-2010 17:34:40; Dark ; 57.0; 15; 67Alp Vir ; 0.98; 28000;occ; 114; 0;46075

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 21; 6014.1; 22-DEC-2010 17:45:13; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;46076  
 22; 6105.3; 22-DEC-2010 17:46:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46076  
 23; 6363.9; 22-DEC-2010 17:51:03; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46076  
 24; 6562.3; 22-DEC-2010 17:54:21; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;46076  
 25; 6669.1; 22-DEC-2010 17:56:08; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;46076  
 26; 6846.6; 22-DEC-2010 17:59:06; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;46076  
 27; 6976.7; 22-DEC-2010 18:01:16; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;46076  
 28; 7122.1; 22-DEC-2010 18:03:41; Dark ; 14.0; 117; Pi Pup ; 2.71; 3800;occ; 28; 0;46076

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 3; 1389.3; 22-DEC-2010 18:08:23; Dark ; 50.0; 179; 240mi2CMa ; 3.03; 24000;occ; 100; 0;46076  
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 7; 2035.8; 22-DEC-2010 18:19:09; Dark ; 56.5; 14; 58Alp Ori ; 0.87; 3000;occ; 113; 0;46076  
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 12; 3682.0; 22-DEC-2010 18:46:35; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;46076  
 13; 3936.9; 22-DEC-2010 18:50:50; Bright; 46.0; 32; 77Eps UMa ; 1.76; 11000;occ; 92; 0;46076  
 14; 4108.3; 22-DEC-2010 18:53:42; Bright; 40.0; 39; 85Eta UMa ; 1.85; 24000;occ; 80; 0;46076  
 15; 4324.4; 22-DEC-2010 18:57:18; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;46076  
 16; 4526.2; 22-DEC-2010 19:00:39; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;46076  
 17; 4740.7; 22-DEC-2010 19:04:14; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;46076  
 18; 5382.0; 22-DEC-2010 19:14:55; Dark ; 57.0; 15; 67Alp Vir ; 0.98; 28000;occ; 114; 0;46076  
 19; 5658.0; 22-DEC-2010 19:19:31; Dark ; 47.0; 54; 5The Cen ; 2.06; 4500;occ; 94; 0;46076  
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 21; 6014.9; 22-DEC-2010 19:25:28; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;46077  
 22; 6106.1; 22-DEC-2010 19:26:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46077  
 23; 6364.7; 22-DEC-2010 19:31:18; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;46077  
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 26; 6847.1; 22-DEC-2010 19:39:20; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;46077  
 27; 6977.1; 22-DEC-2010 19:41:30; Dark ; 9.0; 70; Zet Pup ; 2.25; 39000;occ; 18; 0;46077

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 8; 656.7; 23-DEC-2010 00:37:06; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;46080  
 9; 834.8; 23-DEC-2010 00:40:04; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;46080  
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 12; 1290.8; 23-DEC-2010 00:47:40; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;46080  
 13; 1390.5; 23-DEC-2010 00:49:20; Dark ; 48.5; 179; 240mi2CMa ; 3.03; 24000;occ; 97; 0;46080  
 14; 1554.2; 23-DEC-2010 00:52:04; Dark ; 57.0; 1; 9Alp CMa ; -1.44; 11000;occ; 114; 0;46080  
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 16; 1866.4; 23-DEC-2010 00:57:16; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;46080  
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 19; 2402.4; 23-DEC-2010 01:06:12; Bright; 41.5; 28; 12Bet Tau ; 1.65; 15200;occ; 83; 0;46080  
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 21; 2696.9; 23-DEC-2010 01:11:06; Bright; 43.5; 6; 13Alp Aur ; 0.08; 3400;occ; 87; 0;46080  
 22; 3681.9; 23-DEC-2010 01:27:31; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;46080  
 23; 3935.6; 23-DEC-2010 01:31:45; Bright; 65.0; 32; 77Eps UMa ; 1.76; 11000;occ; 130; 0;46080  
 24; 4107.8; 23-DEC-2010 01:34:37; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;46080  
 25; 4324.8; 23-DEC-2010 01:38:14; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;46080  
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 27; 4742.3; 23-DEC-2010 01:45:12; Bright; 47.0; 111; 8Eta Boo ; 2.68; 6000;occ; 94; 0;46080

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6; 354.2; 23-DEC-2010 02:12:18; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;46081
7; 551.1; 23-DEC-2010 02:15:34; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;46081
8; 657.3; 23-DEC-2010 02:17:21; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;46081
9; 835.5; 23-DEC-2010 02:20:19; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;46081
10; 965.6; 23-DEC-2010 02:22:29; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;46081
11; 1110.1; 23-DEC-2010 02:24:53; Dark ; 50.5; 117; Pi Pup ; 2.71; 3800;occ; 101; 0;46081
12; 1291.2; 23-DEC-2010 02:27:55; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;46081
13; 1390.8; 23-DEC-2010 02:29:34; Dark ; 48.5; 179; 240mi2CMa ; 3.03; 24000;occ; 97; 0;46081
14; 1554.3; 23-DEC-2010 02:32:18; Dark ; 57.5; 1; 9Alp CMa ; -1.44; 11000;occ; 115; 0;46081
15; 1744.3; 23-DEC-2010 02:35:28; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;46081
16; 1866.6; 23-DEC-2010 02:37:30; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;46081
17; 2034.6; 23-DEC-2010 02:40:18; Dark ; 60.0; 14; 58Alp Ori ; 0.87; 3000;occ; 120; 0;46081
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19; 2402.1; 23-DEC-2010 02:46:25; Bright; 41.5; 28; 12Bet Tau ; 1.65; 15200;occ; 83; 0;46081
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4; -1689.1; 23-DEC-2010 03:18:28; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;46081
5; -1486.9; 23-DEC-2010 03:21:50; Bright; 57.0; 83; ; 2.38; 11000;occ; 114; 0;46081
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12; 355.3; 23-DEC-2010 03:52:33; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;46082
13; 551.7; 23-DEC-2010 03:55:49; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;46082
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19; 1391.3; 23-DEC-2010 04:09:49; Dark ; 49.0; 179; 240mi2CMa ; 3.03; 24000;occ; 98; 0;46082
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3; -1906.5; 23-DEC-2010 04:55:05; Bright; 42.5; 39; 85Eta UMa ; 1.85; 24000;occ; 85; 0;46082
4; -1689.2; 23-DEC-2010 04:58:42; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;46082
5; -1486.6; 23-DEC-2010 05:02:05; Bright; 39.5; 83; ; 2.38; 11000;occ; 79; 0;46082
6; -1270.9; 23-DEC-2010 05:05:41; Bright; 44.0; 111; 8Eta Boo ; 2.68; 6000;occ; 88; 0;46082
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9; -229.7; 23-DEC-2010 05:23:02; Dark ; 56.0; 106; 9Bet Crv ; 2.65; 5600;occ; 112; 0;46082
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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12; 356.2; 23-DEC-2010 05:32:48; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;46083
13; 552.3; 23-DEC-2010 05:36:04; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;46083
14; 658.5; 23-DEC-2010 05:37:50; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;46083
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 26; 2594.7; 23-DEC-2010 06:10:06; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;46083  
 27; 2696.4; 23-DEC-2010 06:11:48; Bright; 45.0; 6; 13Alp Aur ; 0.08; 3400;occ; 90; 0;46083  
 28; 3681.7; 23-DEC-2010 06:28:13; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;46083

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 4; 12.2; 23-DEC-2010 22:09:24; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;46093  
 5; 105.9; 23-DEC-2010 22:10:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46093  
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2; 1866.5; 24-DEC-2010 10:21:56; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;46100
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4; 2273.5; 24-DEC-2010 10:28:43; Bright; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;46100
5; 2398.1; 24-DEC-2010 10:30:48; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;46100
6; 2587.4; 24-DEC-2010 10:33:57; Bright; 41.0; 107; 37The Aur ; 2.65; 11000;occ; 82; 0;46100
7; 2692.6; 24-DEC-2010 10:35:43; Bright; 44.5; 6; 13Alp Aur ; 0.08; 3400;occ; 89; 0;46100
8; 3680.7; 24-DEC-2010 10:52:11; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;46100
9; 3929.5; 24-DEC-2010 10:56:19; Bright; 45.5; 32; 77Eps UMA ; 1.76; 11000;occ; 91; 0;46100
10; 4105.2; 24-DEC-2010 10:59:15; Bright; 41.5; 39; 85Eta UMA ; 1.85; 24000;occ; 83; 0;46100
11; 4326.0; 24-DEC-2010 11:02:56; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;46100
12; 4530.5; 24-DEC-2010 11:06:20; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;46100
13; 4750.3; 24-DEC-2010 11:10:00; Bright; 68.0; 111; 8Eta Boo ; 2.68; 6000;occ; 136; 0;46100
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 23; 6861.8; 24-DEC-2010 11:45:12; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;46101  
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 25; 7133.2; 24-DEC-2010 11:49:43; Dark ; 50.5; 117; Pi Pup ; 2.71; 3800;occ; 101; 0;46101  
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 27; 7410.1; 24-DEC-2010 11:54:20; Dark ; 45.5; 179; 240mi2CMA ; 3.03; 24000;occ; 91; 0;46101  
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 5; 2273.4; 24-DEC-2010 12:08:57; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;46101  
 6; 2397.9; 24-DEC-2010 12:11:02; Bright; 56.0; 28; 12Bet Tau ; 1.65; 15200;occ; 112; 0;46101  
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 9; 3680.7; 24-DEC-2010 12:32:25; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;46101  
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 12; 4326.2; 24-DEC-2010 12:43:10; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;46101  
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 16; 5406.3; 24-DEC-2010 13:01:10; Dark ; 60.5; 15; 67Alp Vir ; 0.98; 28000;occ; 121; 0;46101  
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 27; 7312.4; 24-DEC-2010 13:32:56; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;46102  
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 19; 6033.4; 24-DEC-2010 14:51:51; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;46103  
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 21; 6388.3; 24-DEC-2010 14:57:46; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46103  
 22; 6578.2; 24-DEC-2010 15:00:56; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;46103  
 23; 6682.6; 24-DEC-2010 15:02:40; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;46103  
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 25; 6993.4; 24-DEC-2010 15:07:51; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;46103  
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 27; 7312.7; 24-DEC-2010 15:13:11; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;46103



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12; 4105.0; 24-DEC-2010 15:59:57; Bright; 42.5; 39; 85Eta UMa ; 1.85; 24000;occ; 85; 0;46103
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16; 5275.1; 24-DEC-2010 16:19:27; Bright; 37.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 74; 0;46103
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20; 6034.4; 24-DEC-2010 16:32:06; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;46104
21; 6129.7; 24-DEC-2010 16:33:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46104
22; 6389.2; 24-DEC-2010 16:38:01; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;46104
23; 6578.7; 24-DEC-2010 16:41:11; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;46104
24; 6683.2; 24-DEC-2010 16:42:55; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;46104
25; 6767.5; 24-DEC-2010 16:44:19; Dark ; 62.5; 65; Lam Vel ; 2.20; 4400;occ; 125; 0;46104
26; 6863.8; 24-DEC-2010 16:45:56; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;46104
27; 6994.3; 24-DEC-2010 16:48:06; Dark ; 50.0; 70; Zet Pup ; 2.25; 39000;occ; 100; 0;46104
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22; 6035.3; 24-DEC-2010 18:12:21; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;46105
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7; 1866.6; 24-DEC-2010 18:43:07; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;46105

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18;	4752.3;	24-DEC-2010	19:31:12;	Bright;	;	68.0;	111;	8Eta Boo	;	2.68;	6000;occ;	136;	0;	46105
19;	5276.0;	24-DEC-2010	19:39:56;	Bright;	;	37.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	74;	0;	46105
20;	5410.6;	24-DEC-2010	19:42:11;	Dark	;	59.5;	15;	67Alp Vir	;	0.98;	28000;occ;	119;	0;	46105
21;	5674.4;	24-DEC-2010	19:46:35;	Dark	;	44.5;	54;	5The Cen	;	2.06;	4500;occ;	89;	0;	46105
22;	5794.1;	24-DEC-2010	19:48:34;	Dark	;	44.0;	123;	Iot Cen	;	2.75;	10200;occ;	88;	0;	46105
23;	6035.7;	24-DEC-2010	19:52:36;	Dark	;	43.0;	64;	Gam Cen	;	2.20;	10600;occ;	86;	0;	46106
24;	6131.4;	24-DEC-2010	19:54:11;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	46106
25;	6391.1;	24-DEC-2010	19:58:31;	Dark	;	50.5;	113;	Mu Vel	;	2.69;	5000;occ;	101;	0;	46106
26;	6579.9;	24-DEC-2010	20:01:40;	Dark	;	42.5;	71;	Iot Car	;	2.25;	7700;occ;	85;	0;	46106
27;	6684.2;	24-DEC-2010	20:03:24;	Dark	;	56.5;	41;	Eps Car	;	1.86;	4100;occ;	113;	0;	46106
28;	6769.1;	24-DEC-2010	20:04:49;	Dark	;	58.5;	65;	Lam Vel	;	2.20;	4400;occ;	117;	0;	46106
29;	6865.0;	24-DEC-2010	20:06:25;	Dark	;	46.0;	34;	Gam2Vel	;	1.79;	23000;occ;	92;	0;	46106
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2;	-338.0;	25-DEC-2010	00:47:18;	Dark	;	47.5;	54;	5The Cen	;	2.06;	4500;occ;	95;	0;	46108
3;	23.9;	25-DEC-2010	00:53:20;	Dark	;	42.0;	64;	Gam Cen	;	2.20;	10600;occ;	84;	0;	46109
4;	120.0;	25-DEC-2010	00:54:56;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	46109
5;	379.8;	25-DEC-2010	00:59:16;	Dark	;	46.5;	113;	Mu Vel	;	2.69;	5000;occ;	93;	0;	46109
6;	567.5;	25-DEC-2010	01:02:24;	Dark	;	41.0;	71;	Iot Car	;	2.25;	7700;occ;	82;	0;	46109
7;	671.5;	25-DEC-2010	01:04:08;	Dark	;	55.0;	41;	Eps Car	;	1.86;	4100;occ;	110;	0;	46109
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9;	983.3;	25-DEC-2010	01:09:19;	Dark	;	50.0;	70;	Zet Pup	;	2.25;	39000;occ;	100;	0;	46109
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13;	1557.9;	25-DEC-2010	01:18:54;	Dark	;	55.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	110;	0;	46109
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15;	1866.5;	25-DEC-2010	01:24:03;	Dark	;	45.5;	30;	46Eps Ori	;	1.69;	30000;occ;	91;	0;	46109
16;	2030.0;	25-DEC-2010	01:26:46;	Dark	;	56.5;	14;	58Alp Ori	;	0.87;	3000;occ;	113;	0;	46109
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19;	2583.8;	25-DEC-2010	01:36:00;	Bright;	;	39.0;	107;	37The Aur	;	2.65;	11000;occ;	78;	0;	46109
20;	2690.9;	25-DEC-2010	01:37:47;	Bright;	;	42.5;	6;	13Alp Aur	;	0.08;	3400;occ;	85;	0;	46109
21;	3680.3;	25-DEC-2010	01:54:16;	Bright;	;	38.0;	60;	7Bet UMi	;	2.08;	3950;occ;	76;	0;	46109
22;	3926.7;	25-DEC-2010	01:58:23;	Bright;	;	47.0;	32;	77Eps UMa	;	1.76;	11000;occ;	94;	0;	46109
23;	4104.2;	25-DEC-2010	02:01:20;	Bright;	;	43.0;	39;	85Eta UMa	;	1.85;	24000;occ;	86;	0;	46109
24;	4326.4;	25-DEC-2010	02:05:02;	Bright;	;	37.5;	180;	27Gam Boo	;	3.04;	8000;occ;	75;	0;	46109
25;	4532.3;	25-DEC-2010	02:08:28;	Bright;	;	58.0;	83;		;	2.38;	11000;occ;	116;	0;	46109
26;	4754.1;	25-DEC-2010	02:12:10;	Bright;	;	46.5;	111;	8Eta Boo	;	2.68;	6000;occ;	93;	0;	46109
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11;	853.2;	25-DEC-2010	02:47:23;	Dark	;	44.5;	34;	Gam2Vel	;	1.79;	23000;occ;	89;	0;	46110
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13;	1123.3;	25-DEC-2010	02:51:53;	Dark	;	52.5;	117;	Pi Pup	;	2.71;	3800;occ;	105;	0;	46110
14;	1301.0;	25-DEC-2010	02:54:51;	Dark	;	47.5;	23;	21Eps CMa	;	1.50;	26000;occ;	95;	0;	46110
15;	1398.7;	25-DEC-2010	02:56:29;	Dark	;	49.0;	179;	240mi2CMa	;	3.03;	24000;occ;	98;	0;	46110
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 3;-1910.0; 25-DEC-2010 03:41:34; Bright; 62.0; 39; 85Eta UMa ; 1.85; 24000;occ; 124; 0;46110
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11; 25.3; 25-DEC-2010 04:13:49; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;46111
12; 121.7; 25-DEC-2010 04:15:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46111
13; 381.5; 25-DEC-2010 04:19:46; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;46111
14; 568.8; 25-DEC-2010 04:22:53; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46111
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16; 759.4; 25-DEC-2010 04:26:03; Dark ; 59.5; 65; Lam Vel ; 2.20; 4400;occ; 119; 0;46111
17; 853.7; 25-DEC-2010 04:27:38; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;46111
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27; 2395.8; 25-DEC-2010 06:33:34; Bright; 41.5; 28; 12Bet Tau ; 1.65; 15200;occ; 83; 0;46112
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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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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  
 26; 7050.5; 31-DEC-2010 15:52:25; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;46204  
 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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 12; 3672.4; 31-DEC-2010 18:16:35; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46205  
 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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5;	1569.9;	31-DEC-2010	19:21:46;	Dark	;	48.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	96;	0;	46206
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11;	2552.7;	31-DEC-2010	19:38:09;	Bright;	;	39.0;	107;	37The Aur	;	2.65;	11000;occ;	78;	0;	46206
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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
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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