

# GOMOS Daily Report 19-SEP-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	27SEP2010 04:56:28
Data source version	GOMOS/5.01
Start time of products	19SEP2010 00:06:12
Stop time of products	19SEP2010 23:52:23
Store outputs in DB	Yes
Nb of level 1b prods	83
Nb of prods with errors	0

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

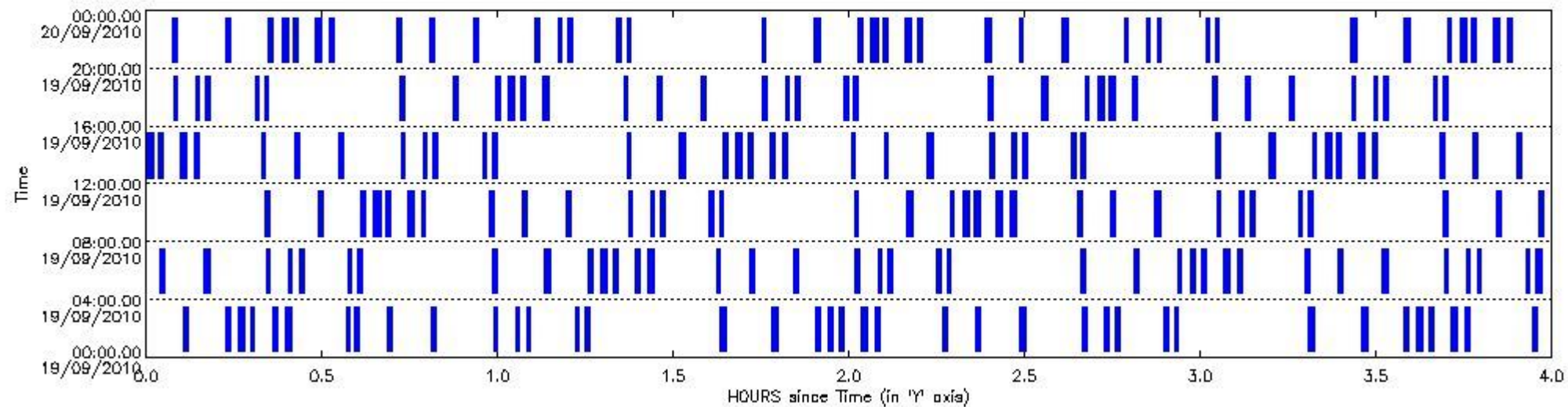
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

No missing products.

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

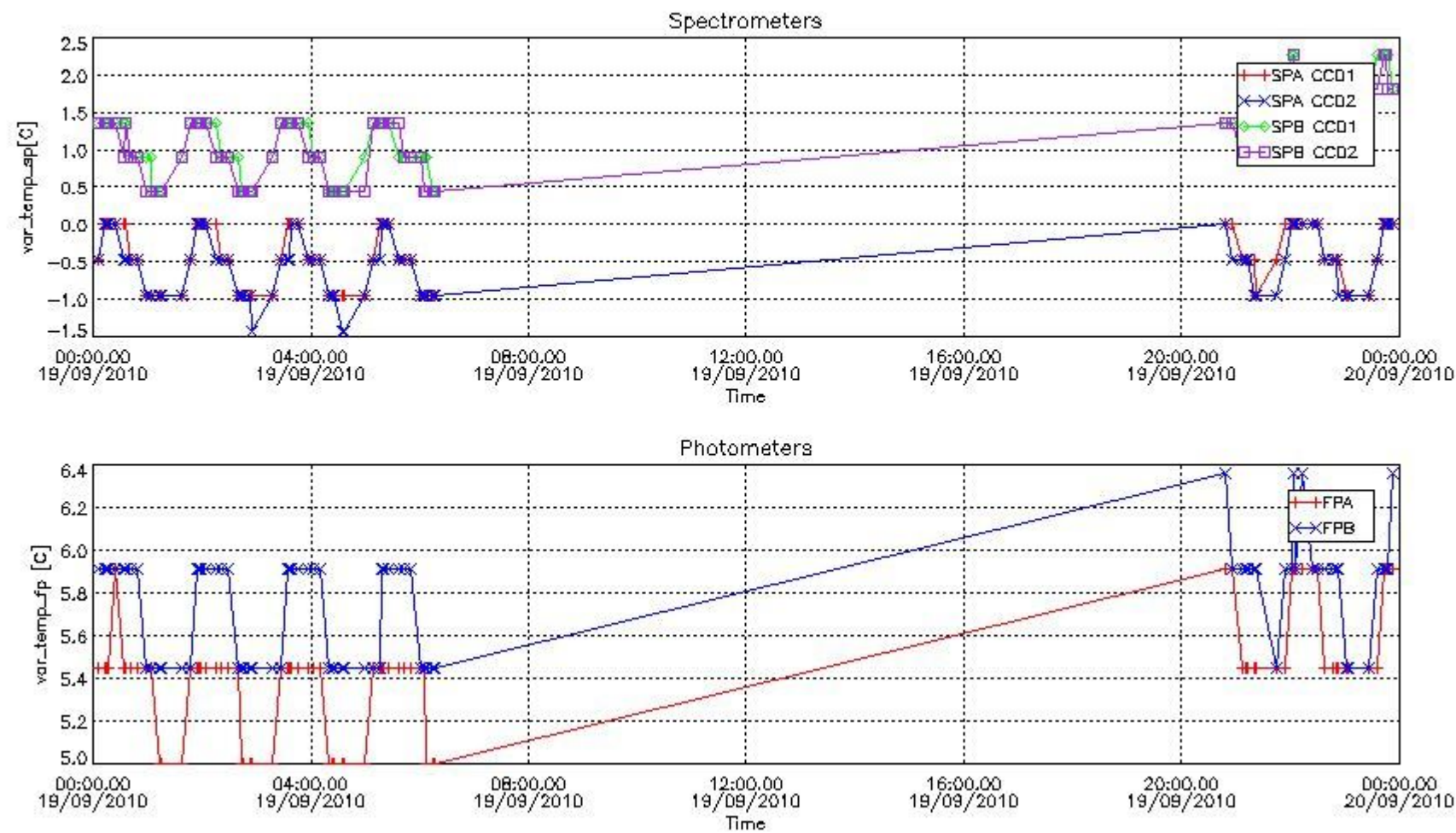
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100919_000612_000000562093_00073_44716_4847.N1	19-SEP-2010 00:06:12	Dark	55.500	8	10Alp CMi	0.40000	6500.0	111	44716	No
2	GOM_TRA_1PNPDE20100919_001336_000000402093_00073_44716_4807.N1	19-SEP-2010 00:13:36	Dark	40.000	132	15Rho Pup	2.8030	6900.0	80	44716	No
3	GOM_TRA_1PNPDE20100919_001542_000000612093_00073_44716_4808.N1	19-SEP-2010 00:15:42	Dark	60.500	1	9Alp CMa	-1.4400	11000.	121	44716	No
4	GOM_TRA_1PNPDE20100919_001744_000000462093_00073_44716_4809.N1	19-SEP-2010 00:17:44	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	44716	No
5	GOM_TRA_1PNPDE20100919_002351_000000542093_00074_44717_4810.N1	19-SEP-2010 00:23:51	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	44717	No
6	GOM_TRA_1PNPDE20100919_003403_000000372093_00074_44717_4811.N1	19-SEP-2010 00:34:03	Dark	36.500	143	Alp Hyi	2.8570	7200.0	73	44717	No
7	GOM_TRA_1PNPDE20100919_003526_000000522093_00074_44717_4812.N1	19-SEP-2010 00:35:26	Dark	52.000	9	Alp Eri	0.45300	24000.	104	44717	No
8	GOM_TRA_1PNPDE20100919_004106_000000442093_00074_44717_4813.N1	19-SEP-2010 00:41:06	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	44717	No
9	GOM_TRA_1PNPDE20100919_004836_000000552093_00074_44717_4814.N1	19-SEP-2010 00:48:36	Twilight_stray	54.500	52	16Bet Cet	2.0370	4500.0	109	44717	No
10	GOM_TRA_1PNPDE20100919_005916_000000382093_00074_44717_4815.N1	19-SEP-2010 00:59:16	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	44717	No
11	GOM_TRA_1PNPDE20100919_010306_000000392093_00074_44717_4816.N1	19-SEP-2010 01:03:06	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	44717	No
12	GOM_TRA_1PNPDE20100919_010454_000000452093_00074_44717_4817.N1	19-SEP-2010 01:04:54	Bright	45.000	58	21Alp And	2.0730	11000.	90	44717	No

13	GOM_TRA_1PNPDE20100919_011313_00000372093_00074_44717_4818.N1	19-SEP-2010 01:13:13	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	44717	No
14	GOM_TRA_1PNPDE20100919_011456_00000432093_00074_44717_4819.N1	19-SEP-2010 01:14:56	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	44717	No
15	GOM_TRA_1PNPDE20100919_013750_00000652093_00074_44717_4820.N1	19-SEP-2010 01:37:50	Bright	65.000	24	66Alp Gem	1.5800	10200.	130	44717	No
16	GOM_TRA_1PNPDE20100919_014649_00000652093_00074_44717_4821.N1	19-SEP-2010 01:46:49	Dark	64.500	8	10Alp CMi	0.40000	6500.0	129	44717	No
17	GOM_TRA_1PNPDE20100919_015413_00000452093_00074_44717_4813.N1	19-SEP-2010 01:54:13	Dark	44.500	132	15Rho Pup	2.8030	6900.0	89	44717	No
18	GOM_TRA_1PNPDE20100919_015619_00000622093_00074_44717_4814.N1	19-SEP-2010 01:56:19	Dark	62.000	1	9Alp CMa	-1.4400	11000.	124	44717	No
19	GOM_TRA_1PNPDE20100919_015821_00000492093_00074_44717_4815.N1	19-SEP-2010 01:58:21	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	44717	No
20	GOM_TRA_1PNPDE20100919_020428_00000552093_00075_44718_4816.N1	19-SEP-2010 02:04:28	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	44718	No
21	GOM_TRA_1PNPDE20100919_021603_00000432093_00075_44718_4817.N1	19-SEP-2010 02:16:03	Dark	42.500	9	Alp Eri	0.45300	24000.	85	44718	No
22	GOM_TRA_1PNPDE20100919_022143_00000472093_00075_44718_4818.N1	19-SEP-2010 02:21:43	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	44718	No
23	GOM_TRA_1PNPDE20100919_022912_00000582093_00075_44718_4819.N1	19-SEP-2010 02:29:12	Twi_and_stray	58.000	52	16Bet Cet	2.0370	4500.0	116	44718	No
24	GOM_TRA_1PNPDE20100919_023952_00000392093_00075_44718_4820.N1	19-SEP-2010 02:39:52	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	44718	No
25	GOM_TRA_1PNPDE20100919_024341_00000392093_00075_44718_4821.N1	19-SEP-2010 02:43:41	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	44718	No
26	GOM_TRA_1PNPDE20100919_024529_00000452093_00075_44718_4822.N1	19-SEP-2010 02:45:29	Bright	44.500	58	21Alp And	2.0730	11000.	89	44718	No
27	GOM_TRA_1PNPDE20100919_025348_00000412093_00075_44718_4823.N1	19-SEP-2010 02:53:48	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	44718	No
28	GOM_TRA_1PNPDE20100919_025531_00000402093_00075_44718_4824.N1	19-SEP-2010 02:55:31	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44718	No
29	GOM_TRA_1PNPDE20100919_031826_00000612093_00075_44718_4385.N1	19-SEP-2010 03:18:26	Bright	61.000	24	66Alp Gem	1.5800	10200.	122	44718	No
30	GOM_TRA_1PNPDE20100919_032725_00000662093_00075_44718_4386.N1	19-SEP-2010 03:27:25	Dark	66.000	8	10Alp CMi	0.40000	6500.0	132	44718	No
31	GOM_TRA_1PNPDE20100919_033449_00000442093_00075_44718_4387.N1	19-SEP-2010 03:34:49	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	44718	No
32	GOM_TRA_1PNPDE20100919_033656_00000642093_00075_44718_4388.N1	19-SEP-2010 03:36:56	Dark	63.500	1	9Alp CMa	-1.4400	11000.	127	44718	No
33	GOM_TRA_1PNPDE20100919_033858_00000502093_00075_44718_4389.N1	19-SEP-2010 03:38:58	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	44718	No
34	GOM_TRA_1PNPDE20100919_034504_00000512093_00076_44719_4390.N1	19-SEP-2010 03:45:04	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	44719	No
35	GOM_TRA_1PNPDE20100919_035639_00000522093_00076_44719_4391.N1	19-SEP-2010 03:56:39	Dark	51.500	9	Alp Eri	0.45300	24000.	103	44719	No
36	GOM_TRA_1PNPDE20100919_040219_00000472093_00076_44719_4392.N1	19-SEP-2010 04:02:19	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	44719	No
37	GOM_TRA_1PNPDE20100919_040949_00000632093_00076_44719_4393.N1	19-SEP-2010 04:09:49	Twi_and_stray	63.000	52	16Bet Cet	2.0370	4500.0	126	44719	No
38	GOM_TRA_1PNPDE20100919_042028_00000382093_00076_44719_4394.N1	19-SEP-2010 04:20:28	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	44719	No
39	GOM_TRA_1PNPDE20100919_042417_00000382093_00076_44719_4395.N1	19-SEP-2010 04:24:17	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	44719	No
40	GOM_TRA_1PNPDE20100919_042604_00000472093_00076_44719_4396.N1	19-SEP-2010 04:26:04	Bright	47.000	58	21Alp And	2.0730	11000.	94	44719	No
41	GOM_TRA_1PNPDE20100919_043424_00000422093_00076_44719_4397.N1	19-SEP-2010 04:34:24	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	44719	No
42	GOM_TRA_1PNPDE20100919_043607_00000422093_00076_44719_4398.N1	19-SEP-2010 04:36:07	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	44719	No
43	GOM_TRA_1PNPDE20100919_045903_00000462093_00076_44719_4410.N1	19-SEP-2010 04:59:03	Bright	46.000	24	66Alp Gem	1.5800	10200.	92	44719	No
44	GOM_TRA_1PNPDE20100919_050802_00000532093_00076_44719_4411.N1	19-SEP-2010 05:08:02	Dark	52.500	8	10Alp CMi	0.40000	6500.0	105	44719	No
45	GOM_TRA_1PNPDE20100919_051526_00000442093_00076_44719_4412.N1	19-SEP-2010 05:15:26	Dark	43.500	132	15Rho Pup	2.8030	6900.0	87	44719	No
46	GOM_TRA_1PNPDE20100919_051733_00000692093_00076_44719_4413.N1	19-SEP-2010 05:17:33	Dark	69.000	1	9Alp CMa	-1.4400	11000.	138	44719	No
47	GOM_TRA_1PNPDE20100919_051935_00000522093_00076_44719_4414.N1	19-SEP-2010 05:19:35	Dark	51.500	23	21Eps CMa	1.5020	26000.	103	44719	No
48	GOM_TRA_1PNPDE20100919_052541_00000532093_00077_44720_4415.N1	19-SEP-2010 05:25:41	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	44720	No
49	GOM_TRA_1PNPDE20100919_053716_00000422093_00077_44720_4416.N1	19-SEP-2010 05:37:16	Dark	42.000	9	Alp Eri	0.45300	24000.	84	44720	No
50	GOM_TRA_1PNPDE20100919_054256_00000522093_00077_44720_4417.N1	19-SEP-2010 05:42:56	Straylight	52.000	84	Alp Phe	2.3970	4500.0	104	44720	No
51	GOM_TRA_1PNPDE20100919_055025_00000572093_00077_44720_4418.N1	19-SEP-2010 05:50:25	Twi_and_stray	56.500	52	16Bet Cet	2.0370	4500.0	113	44720	No
52	GOM_TRA_1PNPDE20100919_060104_00000392093_00077_44720_4419.N1	19-SEP-2010 06:01:04	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	44720	No
53	GOM_TRA_1PNPDE20100919_060453_00000412093_00077_44720_4420.N1	19-SEP-2010 06:04:53	Bright	40.500	93	53Bet Peg	2.5200	3100.0	81	44720	No
54	GOM_TRA_1PNPDE20100919_060640_00000472093_00077_44720_4421.N1	19-SEP-2010 06:06:40	Bright	47.000	58	21Alp And	2.0730	11000.	94	44720	No
55	GOM_TRA_1PNPDE20100919_061500_00000392093_00077_44720_4422.N1	19-SEP-2010 06:15:00	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44720	No
56	GOM_TRA_1PNPDE20100919_061642_00000422093_00077_44720_4423.N1	19-SEP-2010 06:16:42	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	44720	No
57	GOM_TRA_1PNPDE20100919_204822_00000472093_00086_44729_4856.N1	19-SEP-2010 20:48:22	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	44729	No
58	GOM_TRA_1PNPDE20100919_205549_00000592093_00086_44729_4857.N1	19-SEP-2010 20:55:49	Twi_and_stray	59.000	52	16Bet Cet	2.0370	4500.0	118	44729	No
59	GOM_TRA_1PNPDE20100919_210626_00000392093_00086_44729_4858.N1	19-SEP-2010 21:06:26	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	44729	No
60	GOM_TRA_1PNPDE20100919_211015_00000382093_00086_44729_4859.N1	19-SEP-2010 21:10:15	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	44729	No
61	GOM_TRA_1PNPDE20100919_211158_00000452093_00086_44729_4860.N1	19-SEP-2010 21:11:58	Bright	44.500	58	21Alp And	2.0730	11000.	89	44729	No
62	GOM_TRA_1PNPDE20100919_212019_00000422093_00086_44729_4861.N1	19-SEP-2010 21:20:19	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	44729	No
63	GOM_TRA_1PNPDE20100919_212201_00000432093_00086_44729_4862.N1	19-SEP-2010 21:22:01	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	44729	No
64	GOM_TRA_1PNPDE20100919_214503_00000472093_00086_44729_4863.N1	19-SEP-2010 21:45:03	Bright	47.000	24	66Alp Gem	1.5800	10200.	94	44729	No
65	GOM_TRA_1PNPDE20100919_215407_00000592093_00086_44729_4864.N1	19-SEP-2010 21:54:07	Dark	58.500	8	10Alp CMi	0.40000	6500.0	117	44729	No
66	GOM_TRA_1PNPDE20100919_220130_00000432093_00086_44729_4847.N1	19-SEP-2010 22:01:30	Dark	43.000	132	15Rho Pup	2.8030	6900.0	86	44729	No
67	GOM_TRA_1PNPDE20100919_220344_00000682093_00086_44729_4848.N1	19-SEP-2010 22:03:44	Dark	67.500	1	9Alp CMa	-1.4400	11000.	135	44729	No
68	GOM_TRA_1PNPDE20100919_220544_00000462093_00086_44729_4849.N1	19-SEP-2010 22:05:44	Dark	45.500	23	21Eps CMa	1.5020	26000.	91	44729	No
69	GOM_TRA_1PNPDE20100919_221147_00000512093_00087_44730_4850.N1	19-SEP-2010 22:11:47	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	44730	No
70	GOM_TRA_1PNPDE20100919_222320_00000512093_00087_44730_4851.N1	19-SEP-2010 22:23:20	Dark	51.000	9	Alp Eri	0.45300	24000.	102	44730	No
71	GOM_TRA_1PNPDE20100919_222859_00000482093_00087_44730_4852.N1	19-SEP-2010 22:28:59	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	44730	No



72	GOM_TRA_1PNPDE20100919_223625_000000552093_00087_44730_4853.N1	19-SEP-2010 22:36:25	Twilight_stray	55.000	52	16Bet Cet	2.0370	4500.0	110	44730	No
73	GOM_TRA_1PNPDE20100919_224702_000000382093_00087_44730_4854.N1	19-SEP-2010 22:47:02	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	44730	No
74	GOM_TRA_1PNPDE20100919_225050_000000382093_00087_44730_4855.N1	19-SEP-2010 22:50:50	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	44730	No
75	GOM_TRA_1PNPDE20100919_225233_000000462093_00087_44730_4856.N1	19-SEP-2010 22:52:33	Bright	46.000	58	21Alp And	2.0730	11000.	92	44730	No
76	GOM_TRA_1PNPDE20100919_230055_000000422093_00087_44730_4857.N1	19-SEP-2010 23:00:55	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	44730	No
77	GOM_TRA_1PNPDE20100919_230236_000000402093_00087_44730_4858.N1	19-SEP-2010 23:02:36	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	44730	No
78	GOM_TRA_1PNPDE20100919_232539_000000662093_00087_44730_4859.N1	19-SEP-2010 23:25:39	Bright	66.000	24	66Alp Gem	1.5800	10200.	132	44730	No
79	GOM_TRA_1PNPDE20100919_233444_000000612093_00087_44730_4860.N1	19-SEP-2010 23:34:44	Dark	60.500	8	10Alp CMi	0.40000	6500.0	121	44730	No
80	GOM_TRA_1PNPDE20100919_234207_000000452093_00087_44730_4856.N1	19-SEP-2010 23:42:07	Dark	45.000	132	15Rho Pup	2.8030	6900.0	90	44730	No
81	GOM_TRA_1PNPDE20100919_234421_000000642093_00087_44730_4857.N1	19-SEP-2010 23:44:21	Dark	64.000	1	9Alp CMa	-1.4400	11000.	128	44730	No
82	GOM_TRA_1PNPDE20100919_234620_000000512093_00087_44730_4858.N1	19-SEP-2010 23:46:20	Dark	51.000	23	21Eps CMa	1.5020	26000.	102	44730	No
83	GOM_TRA_1PNPDE20100919_235223_000000562093_00088_44731_4859.N1	19-SEP-2010 23:52:23	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	44731	No

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



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

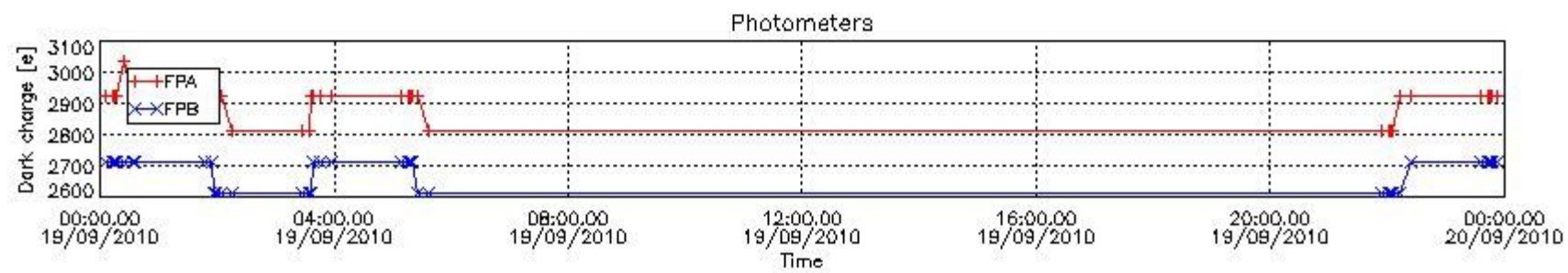
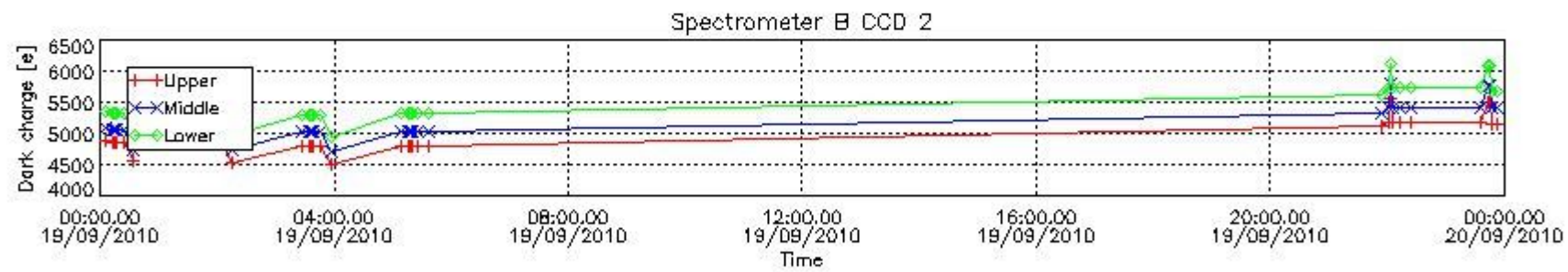
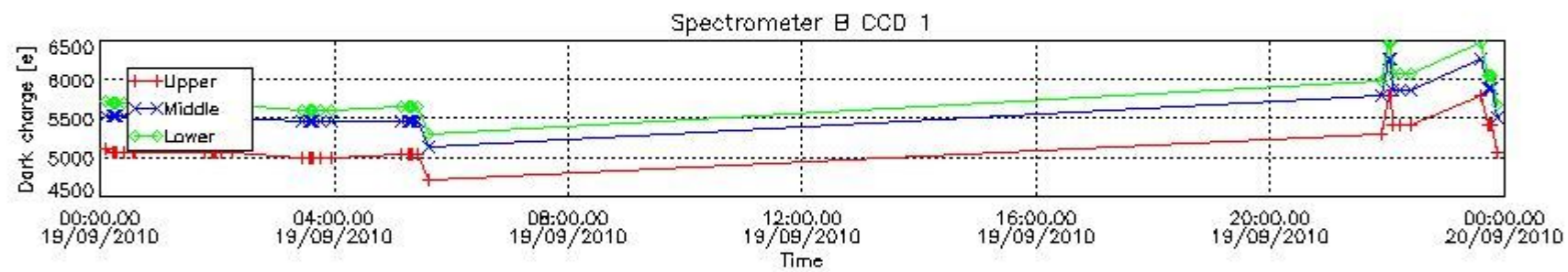
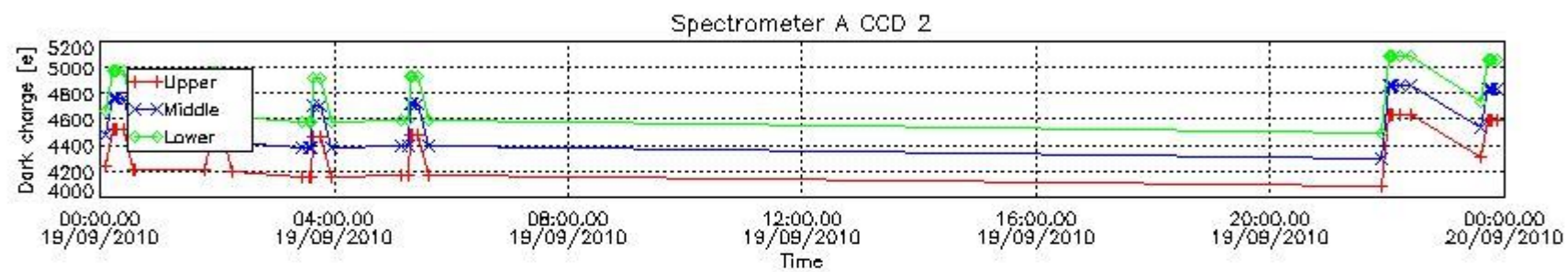
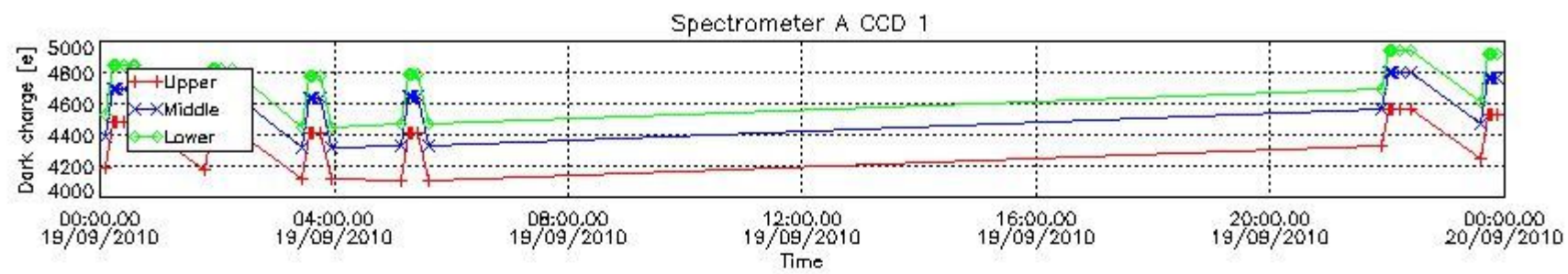
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100919_204822_000000472093_00086_44729_4856.N1	DC map used
GOM_TRA_1PNPDE20100919_205549_000000592093_00086_44729_4857.N1	DC map used
GOM_TRA_1PNPDE20100919_210626_000000392093_00086_44729_4858.N1	DC map used
GOM_TRA_1PNPDE20100919_211015_000000382093_00086_44729_4859.N1	DC map used
GOM_TRA_1PNPDE20100919_211158_000000452093_00086_44729_4860.N1	DC map used
GOM_TRA_1PNPDE20100919_212019_000000422093_00086_44729_4861.N1	DC map used
GOM_TRA_1PNPDE20100919_212201_000000432093_00086_44729_4862.N1	DC map used
GOM_TRA_1PNPDE20100919_214503_000000472093_00086_44729_4863.N1	DC map used
GOM_TRA_1PNPDE20100919_215407_000000592093_00086_44729_4864.N1	DC map used

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



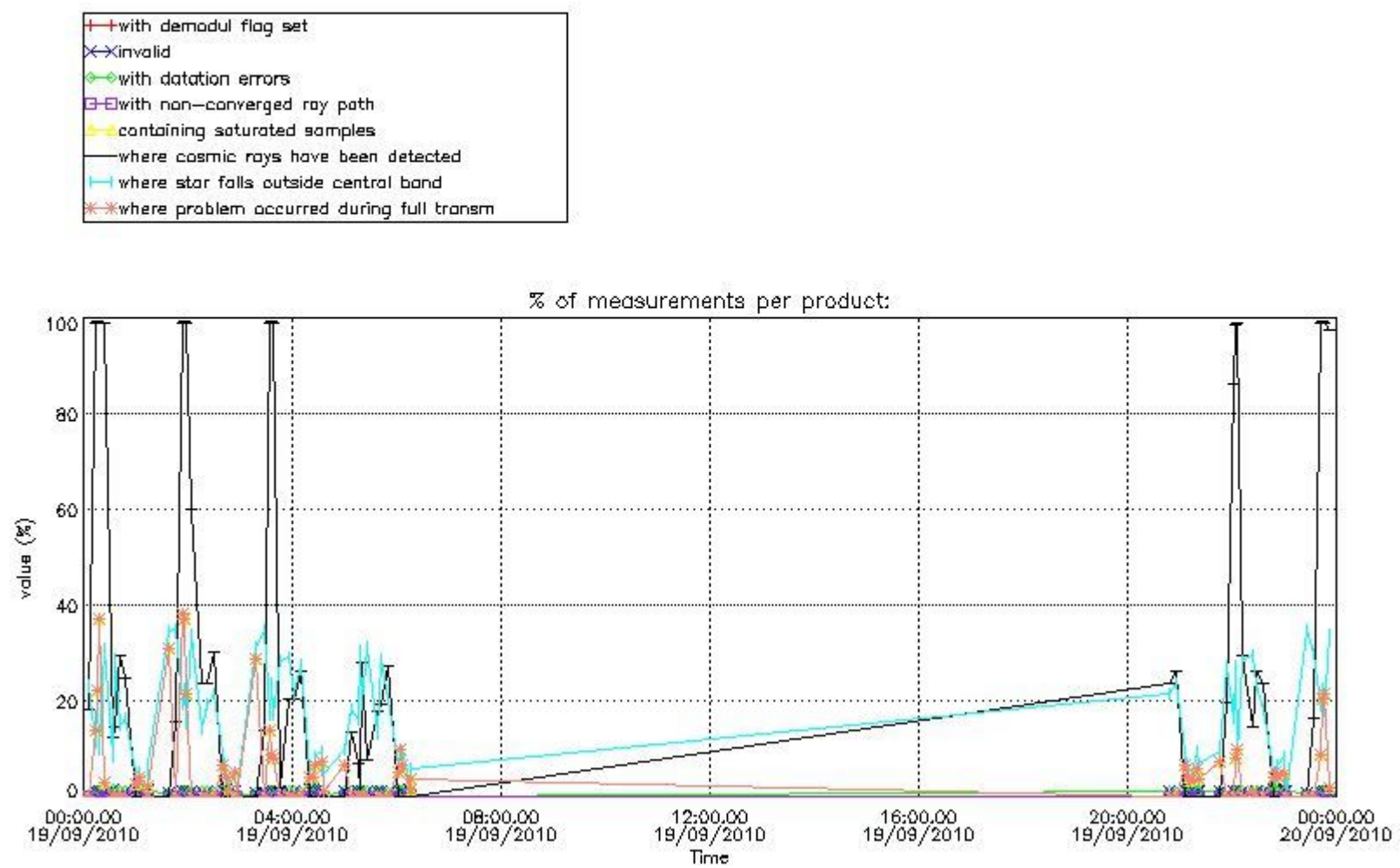
## 5. Demodulation flag and quality information monitoring

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:

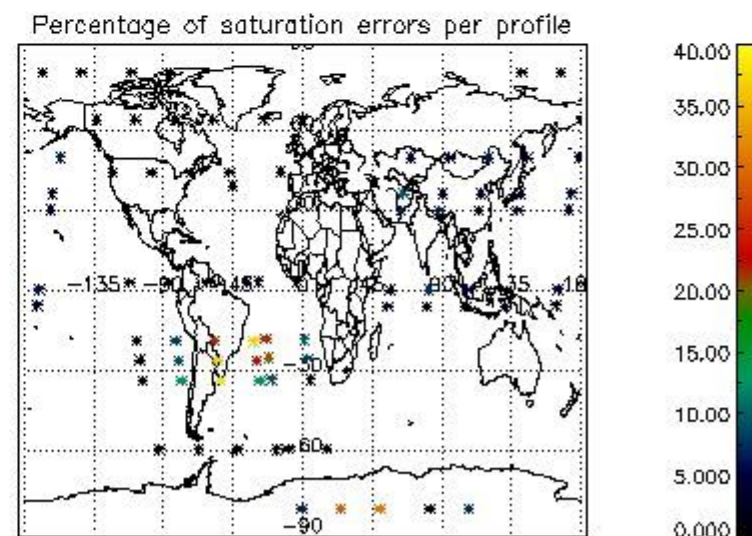
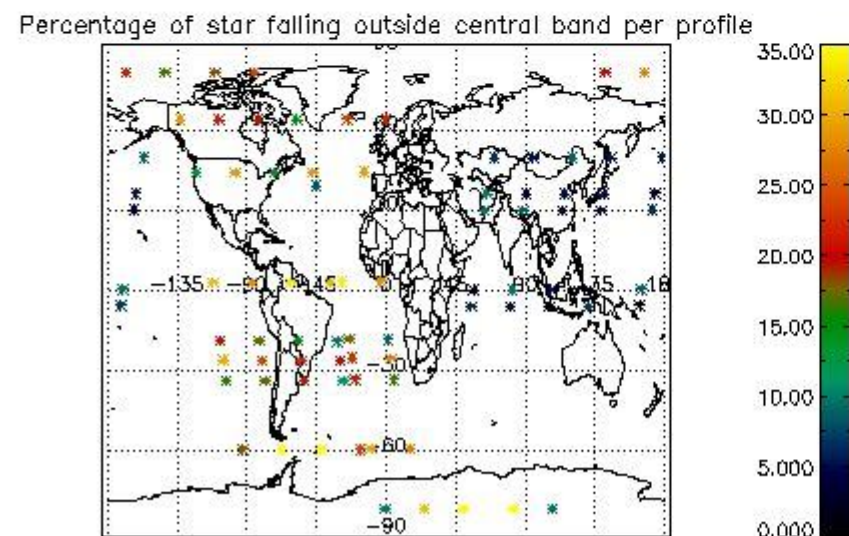
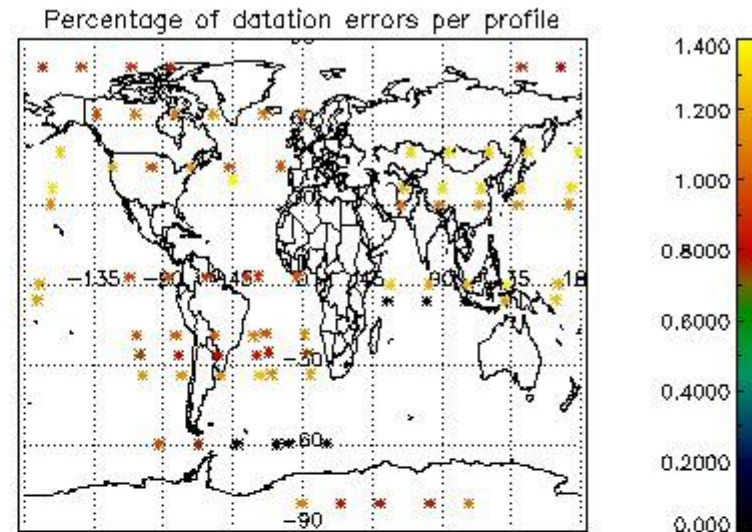
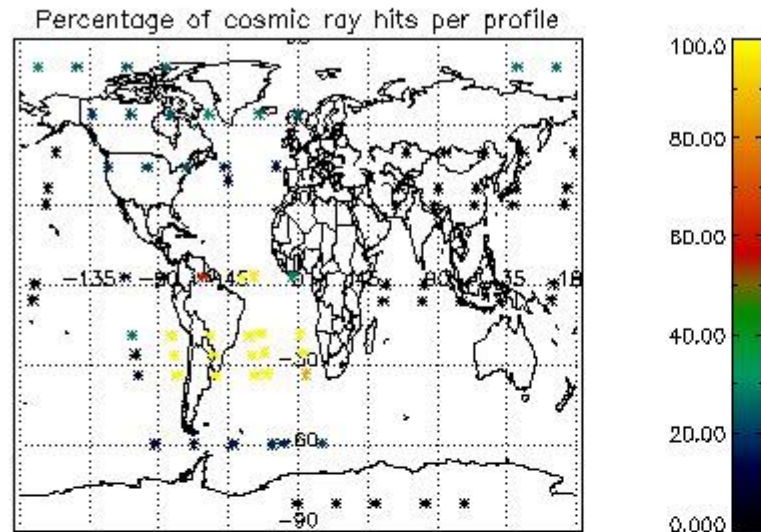
At least one measurement with demodulation flag set:	51.8072 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 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)

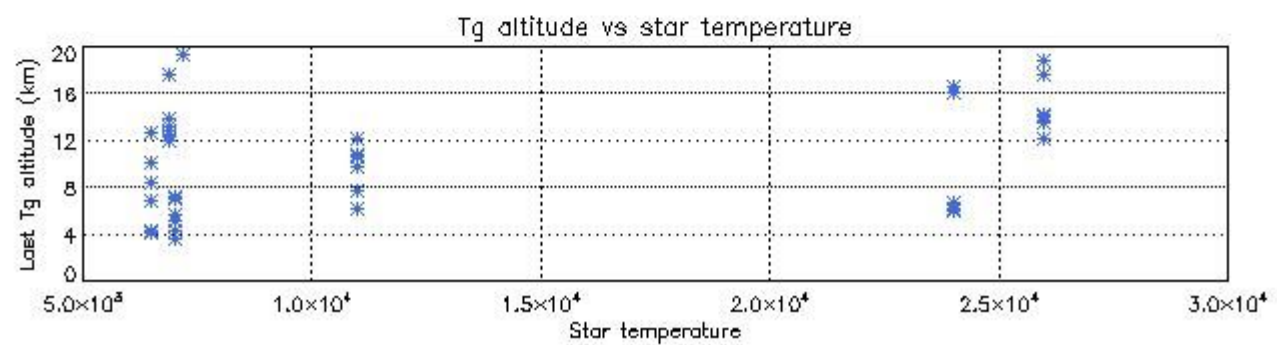
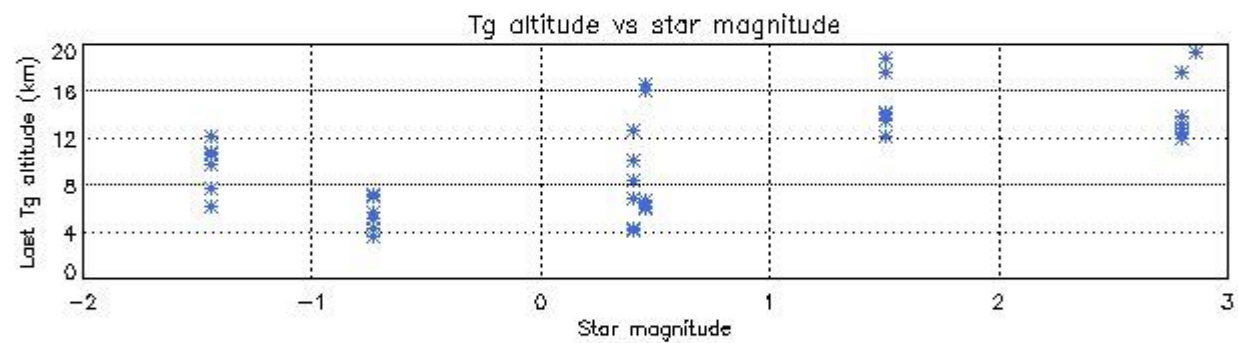
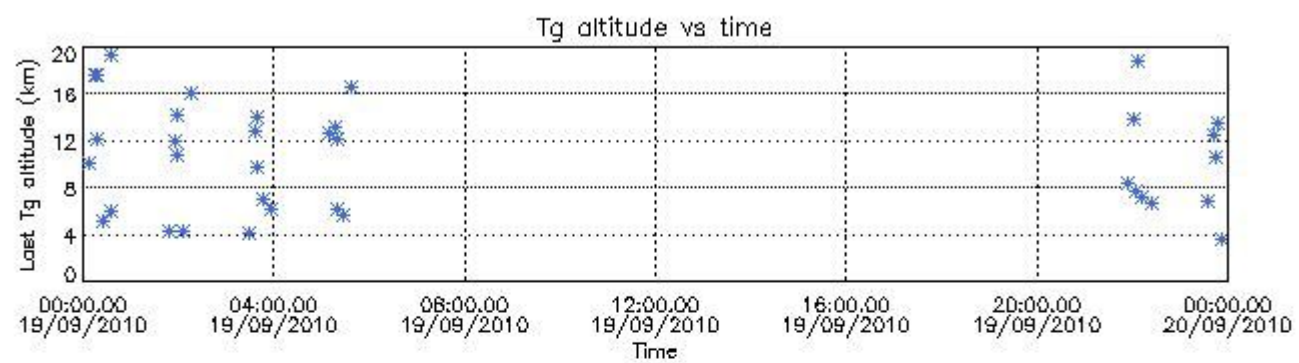
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	10.538	19.929	NaN
St. deviation:	4.5797	5.3459	NaN
Maximum:	19.340	29.881	NaN
Minimum:	3.6403	3.9543	NaN
Number of data:	36.000	35.000	NaN

### 6.2 Plot for DARK limb products

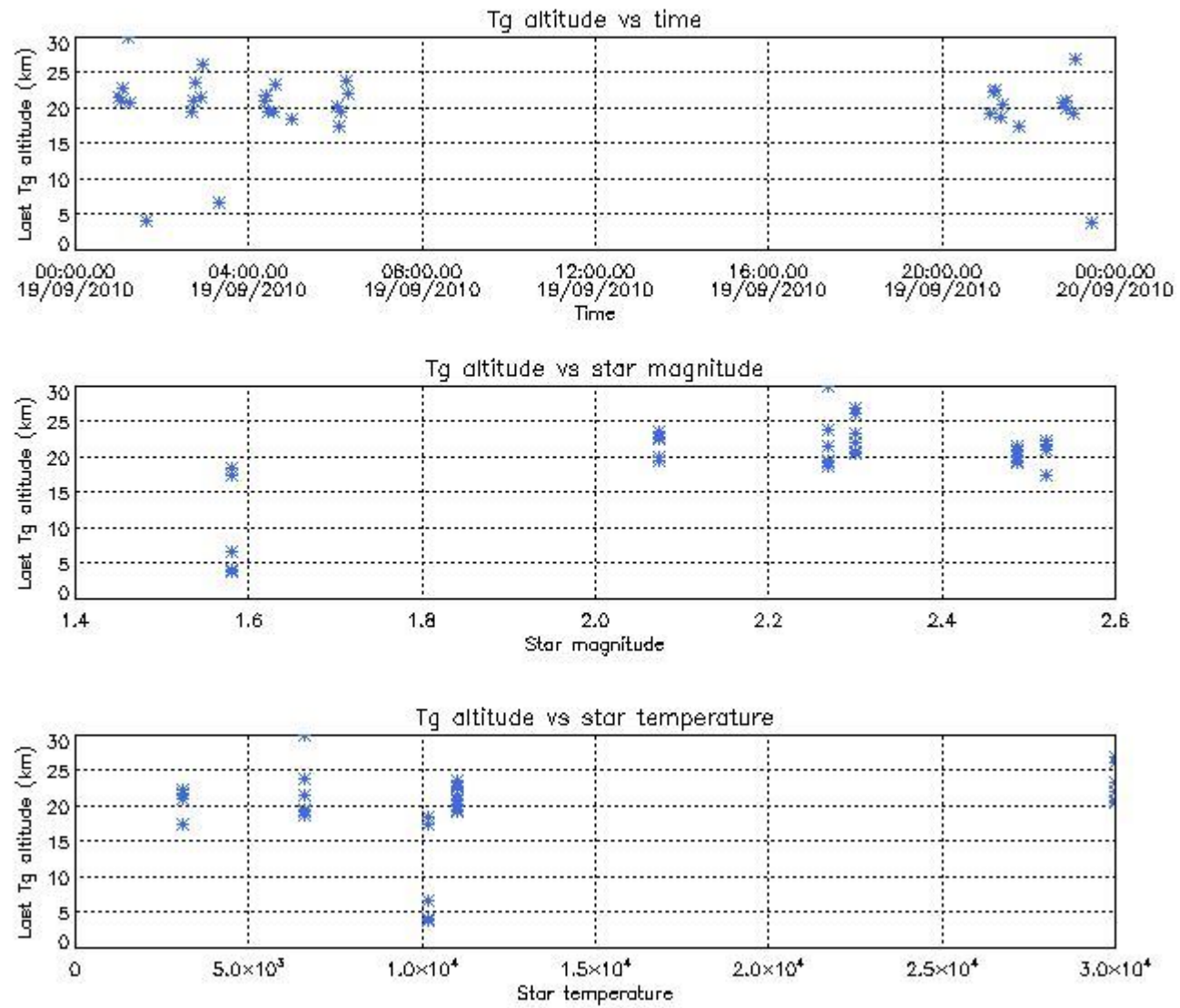


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

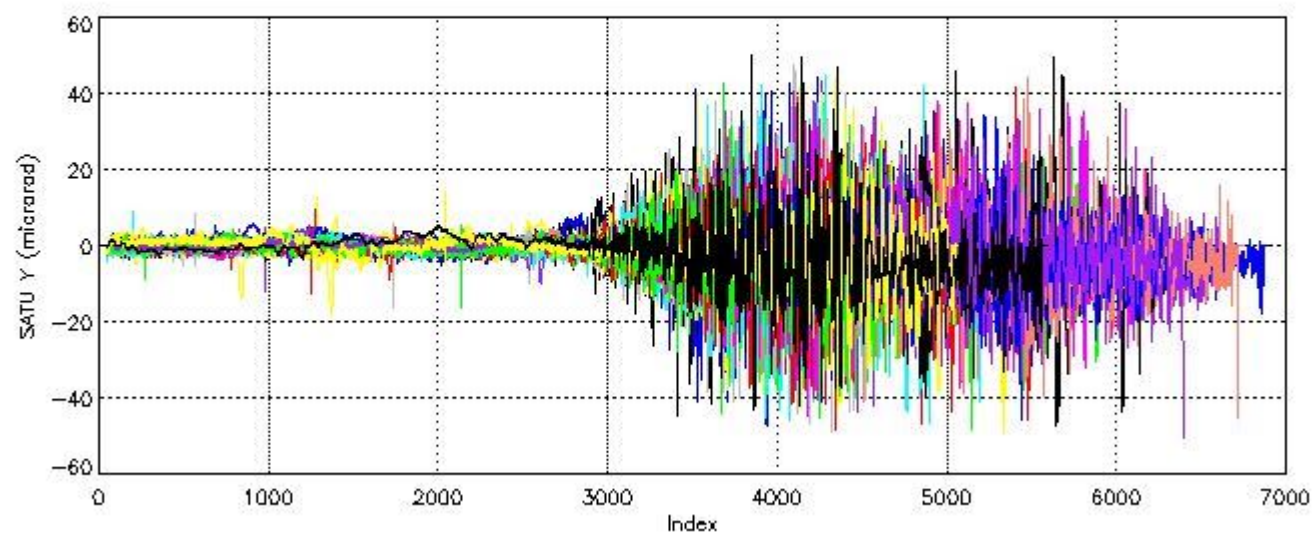
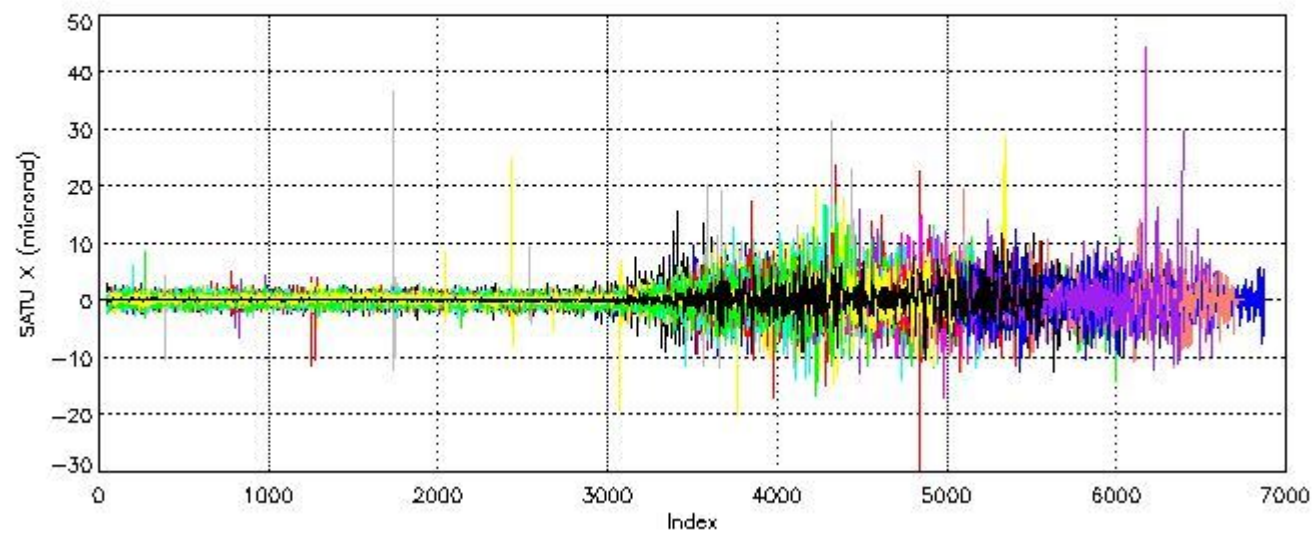


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.16353	-0.070833	0.19420	0.034624
St. deviation:	0.35623	0.83089	0.71002	1.1439
Maximum:	8.7000	8.7000	4.8000	14.600
Minimum:	-10.300	-13.700	-4.0000	-7.0000



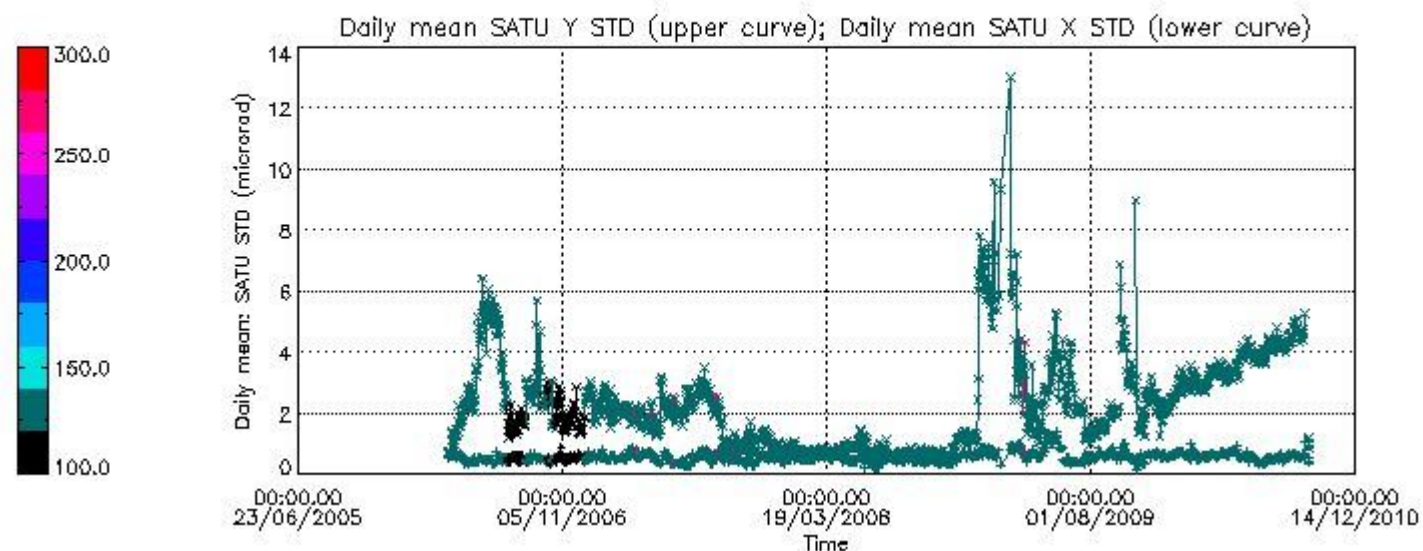
Number of data:	36150.	36150.	34900.	34900.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

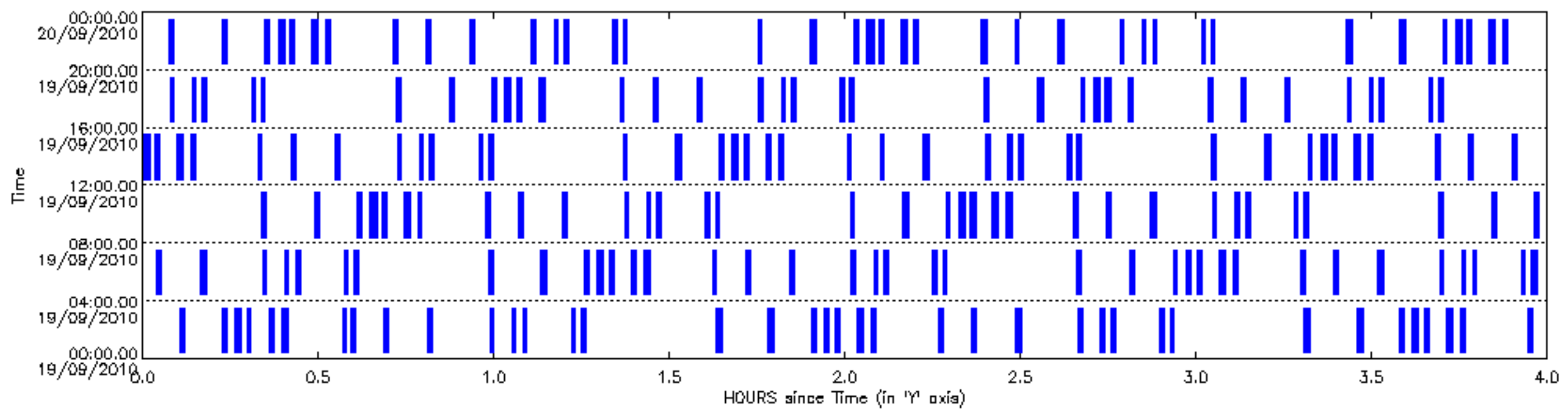
Upper curve: STD of SATU Y axis  
Lower curve: STD of SATU X axis

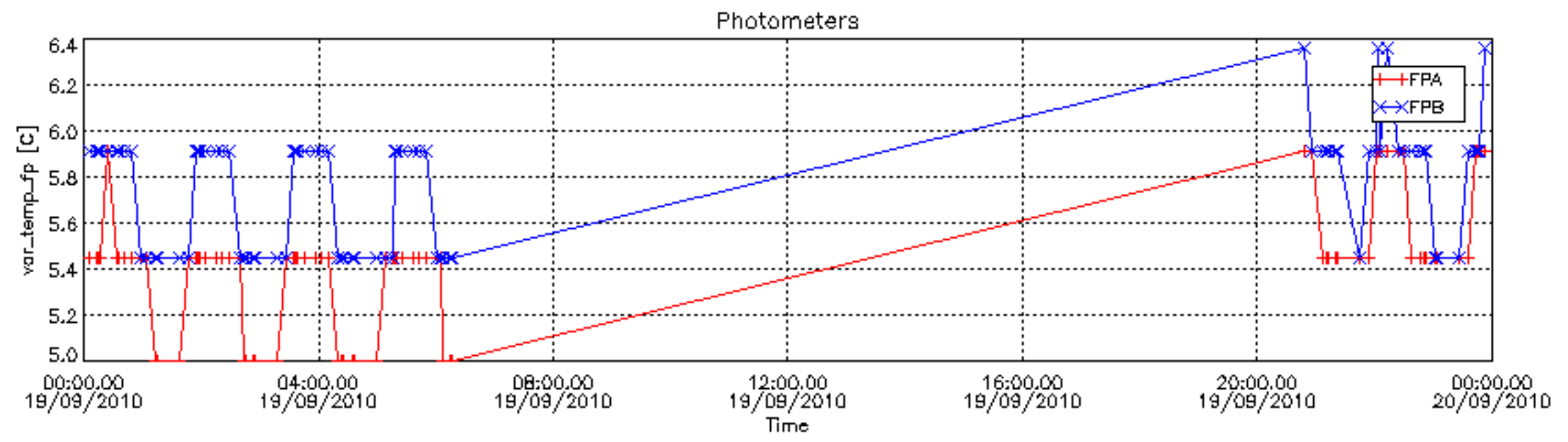
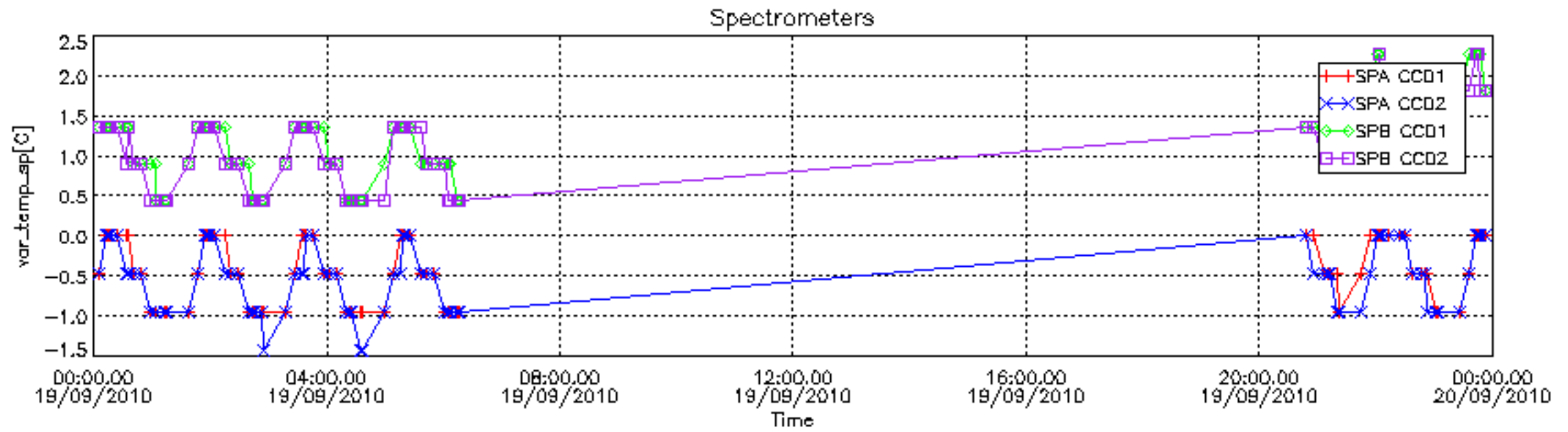


### 8. Auxiliary Data Files used for the production reported in section 2.4

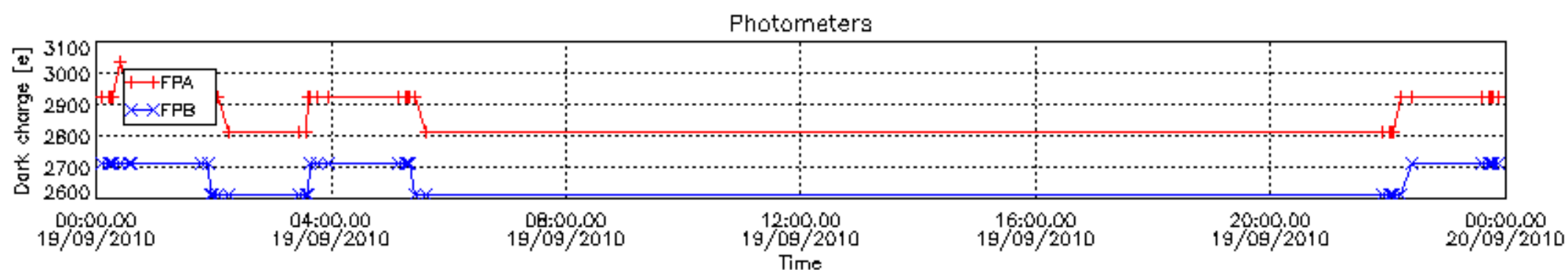
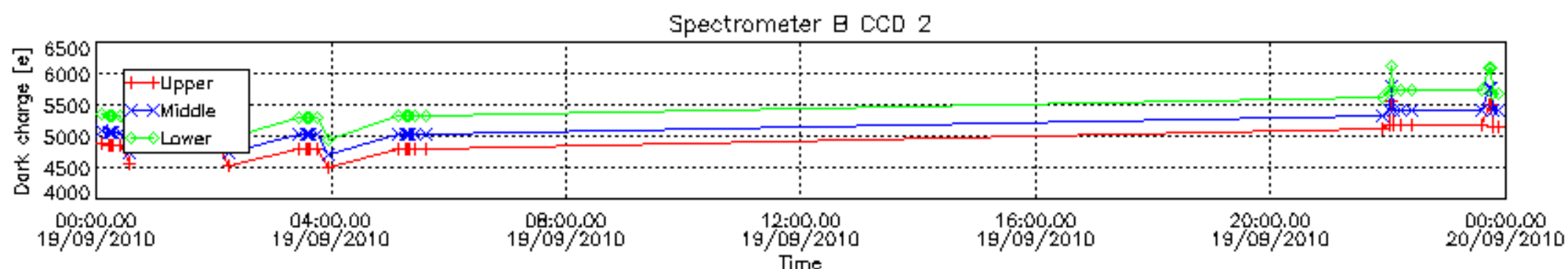
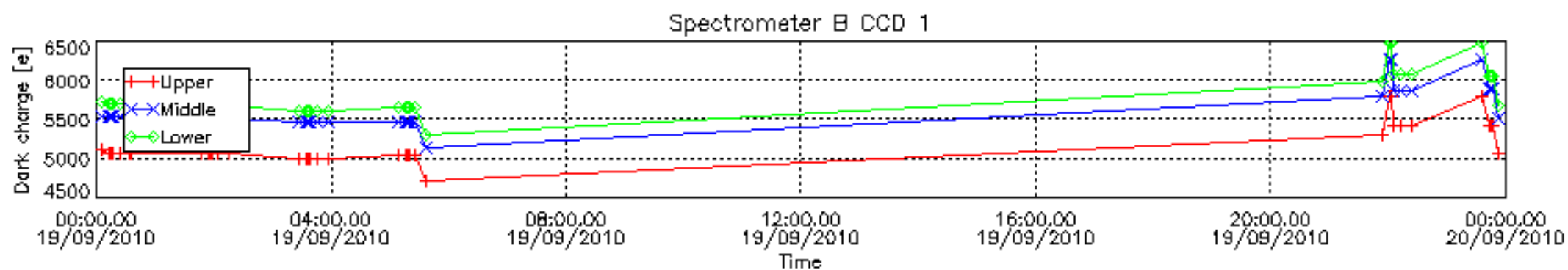
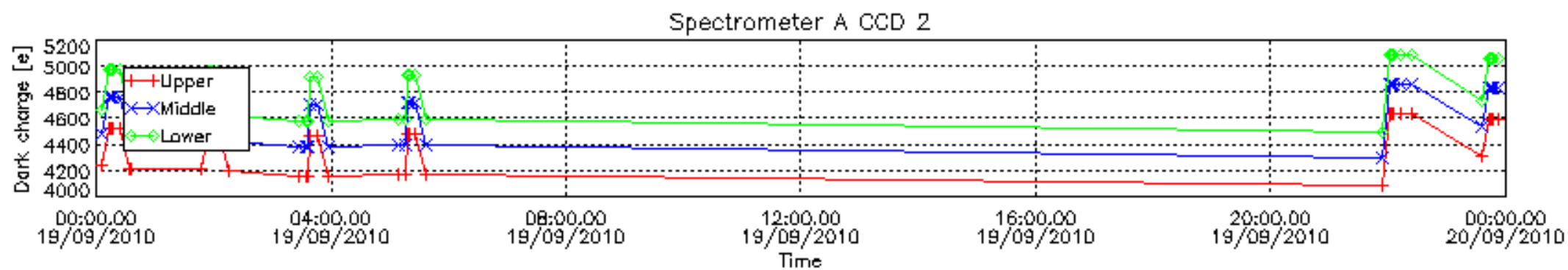
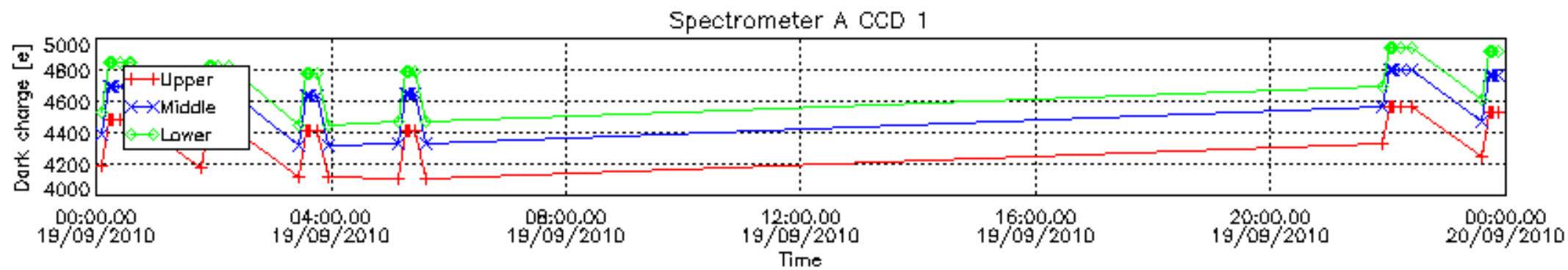
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

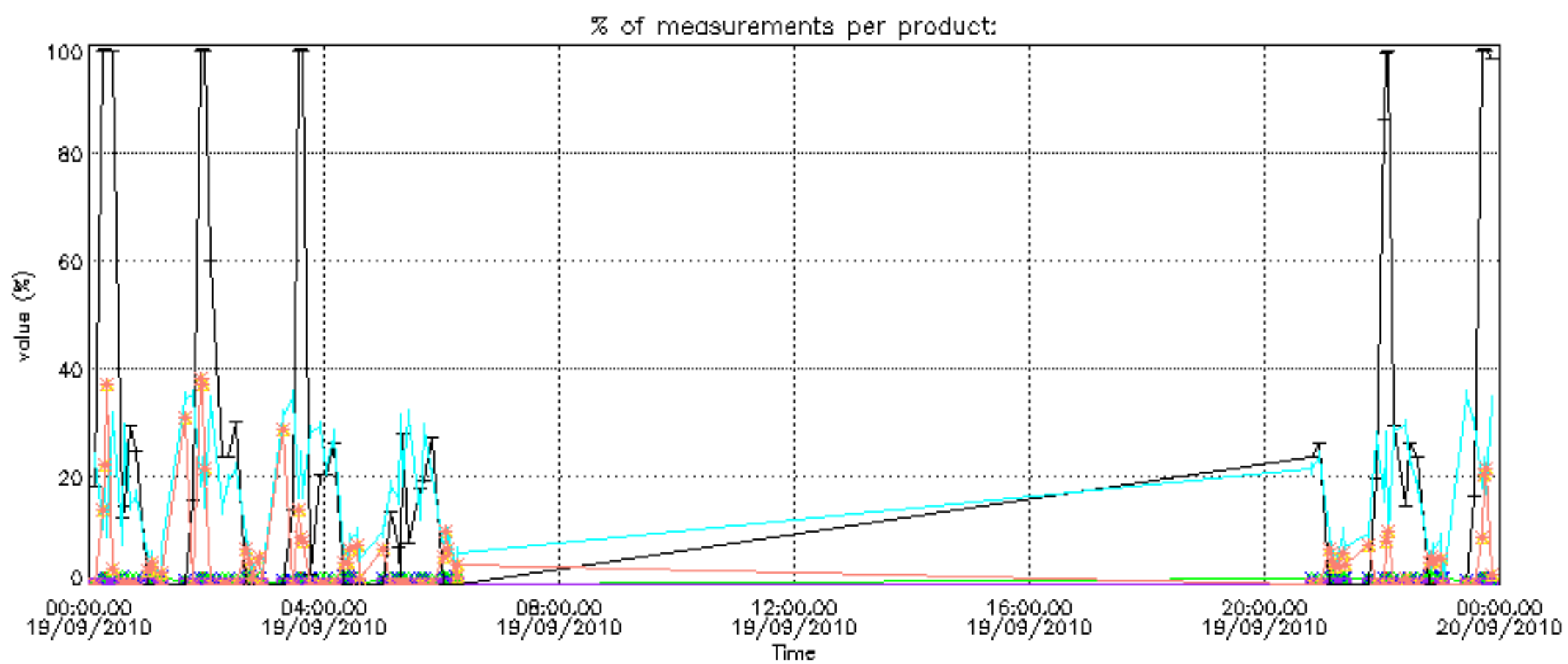
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-SEP-2010 00:06:12
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100917_112037_20100916_000000_20500101_000000	1	19-SEP-2010 00:06:12
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	19-SEP-2010 00:06:12
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-SEP-2010 00:06:12
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	19-SEP-2010 00:06:12
ECMWF_FILE	AUX_ECA_AXNECM20100919_052115_20100918_210000_20100919_090000	1	19-SEP-2010 00:06:12
ECMWF_FILE	AUX_ECA_AXNECM20100919_172116_20100919_030000_20100919_150000	29	19-SEP-2010 03:18:26
ECMWF_FILE	AUX_ECA_AXNECM20100920_052114_20100919_150000_20100920_030000	57	19-SEP-2010 20:48:22
ECMWF_FILE	AUX_ECA_AXNECM20100920_052114_20100919_210000_20100920_090000	66	19-SEP-2010 22:01:30
OPTIONAL_ECMWF_FILE	MISSING	1	19-SEP-2010 00:06:12
ORBIT_DATA_FILE	AUX_FRO_AXVPDS20100920_092113_20100916_221000_20100919_005000	1	19-SEP-2010 00:06:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100919_000908_000054192093_00073_44716_1093.N1	2	19-SEP-2010 00:13:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100919_014446_000041442093_00074_44717_1094.N1	17	19-SEP-2010 01:54:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100919_025909_000060572093_00075_44718_1176.N1	29	19-SEP-2010 03:18:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100919_044525_000054192093_00076_44719_1096.N1	43	19-SEP-2010 04:59:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100919_204147_000041442093_00086_44729_1097.N1	57	19-SEP-2010 20:48:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100919_215610_000057382093_00086_44729_1098.N1	66	19-SEP-2010 22:01:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100919_233707_000057382093_00087_44730_1099.N1	80	19-SEP-2010 23:42:07



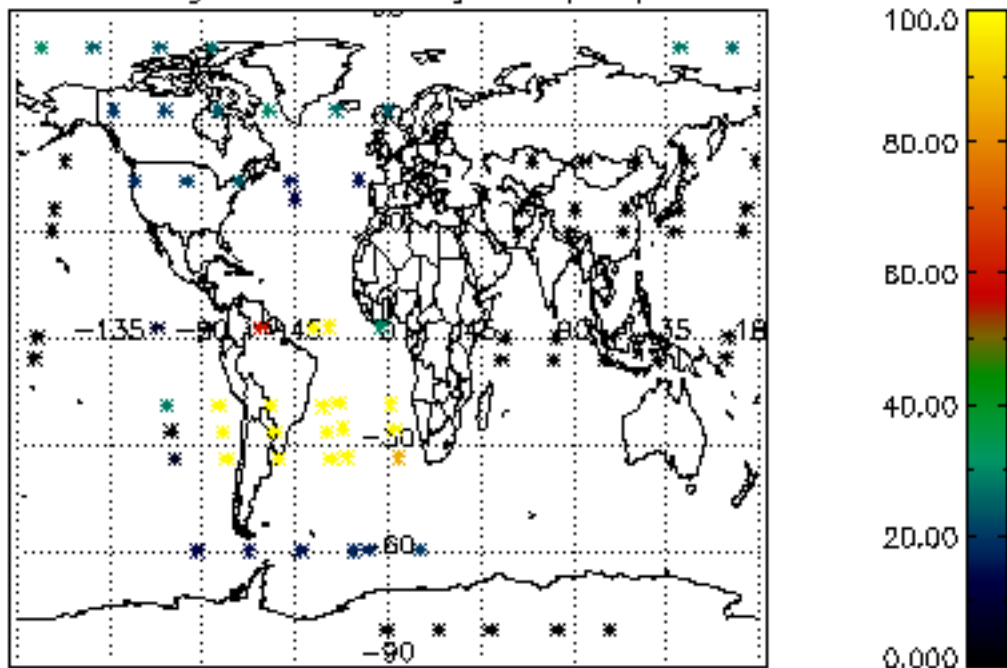




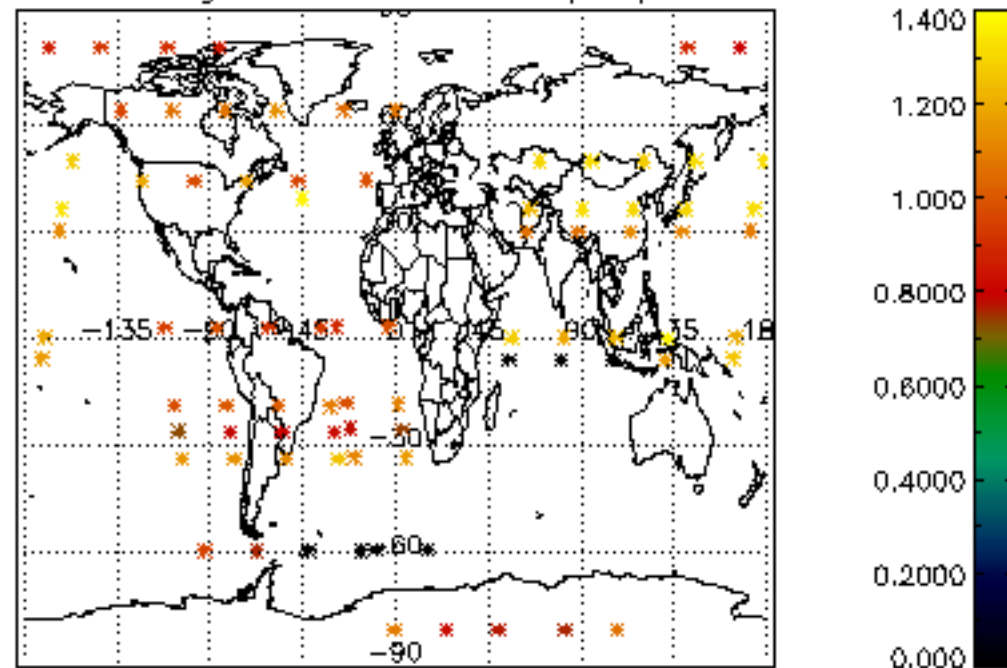




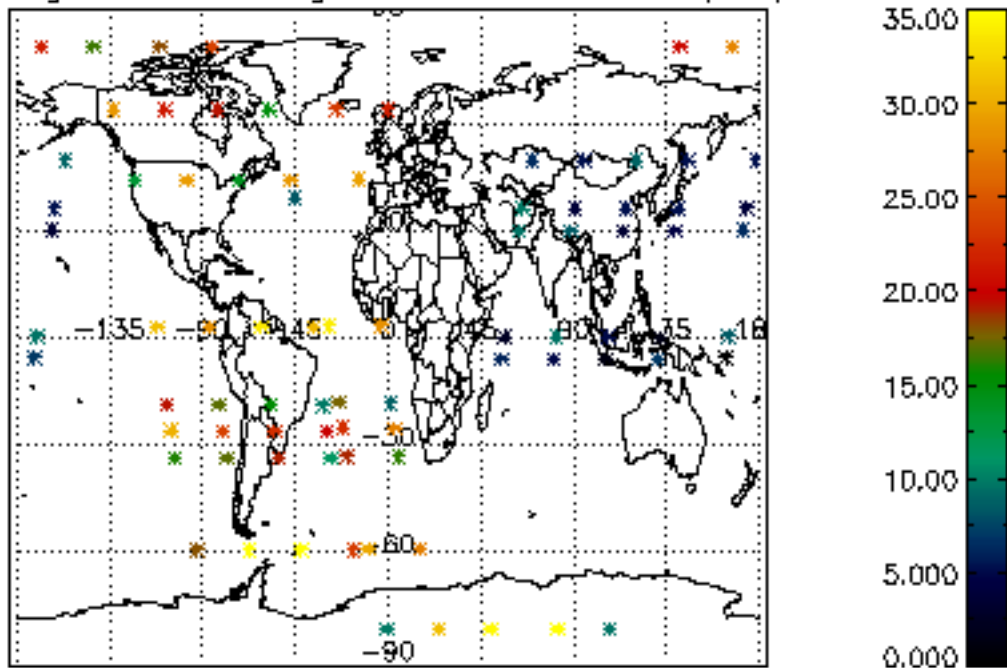
Percentage of cosmic ray hits per profile



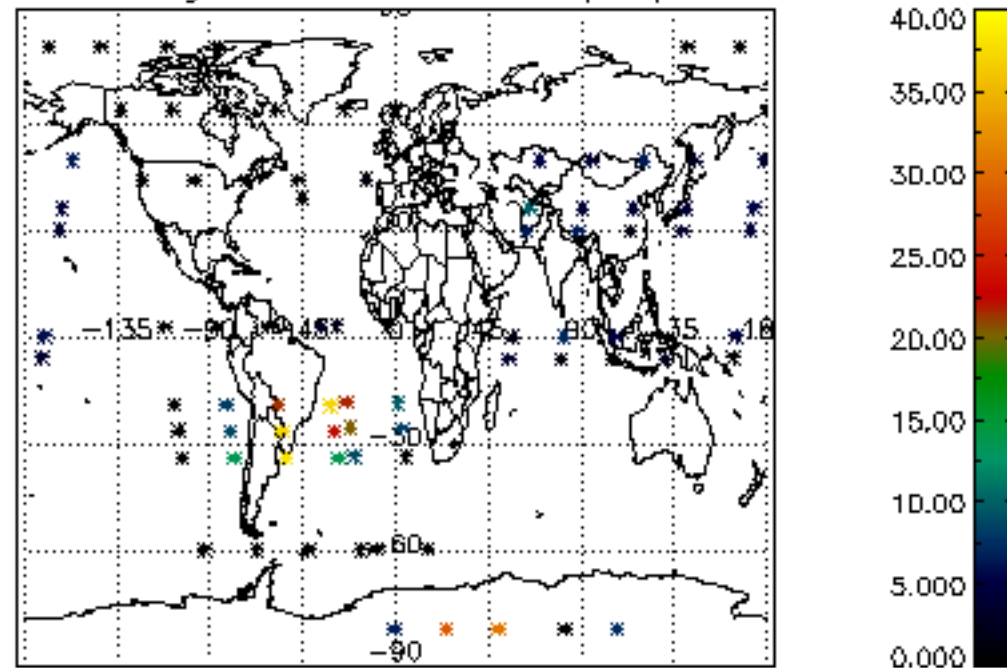
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

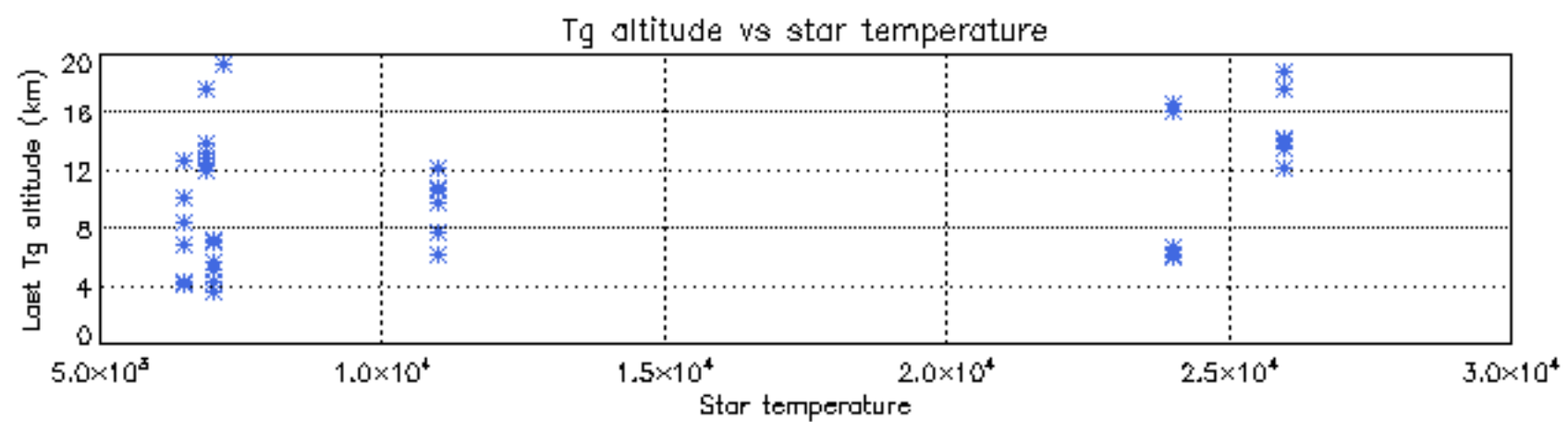
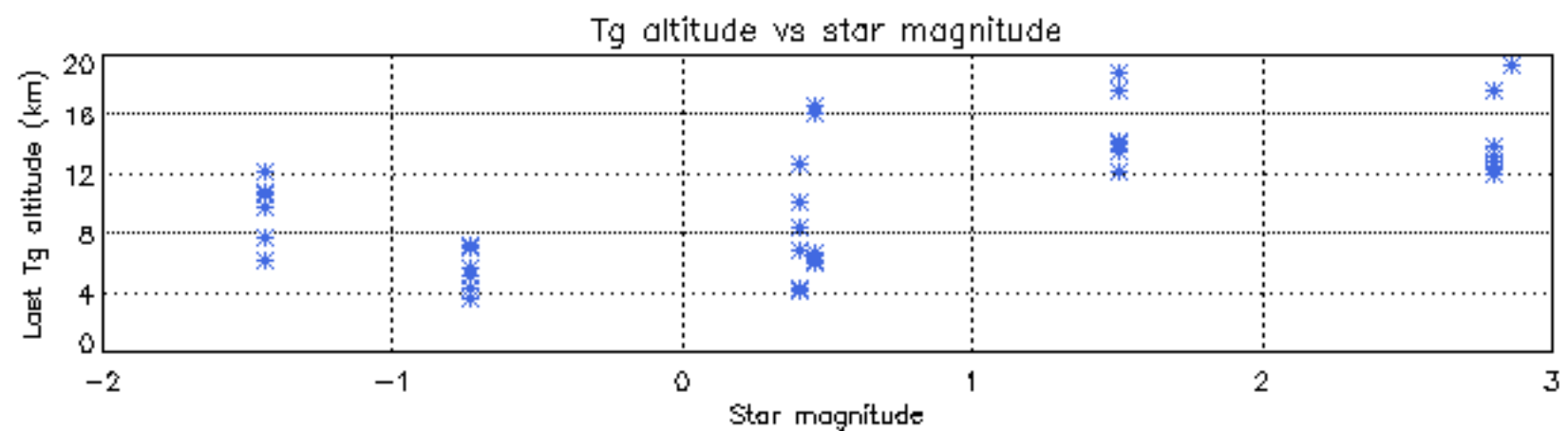
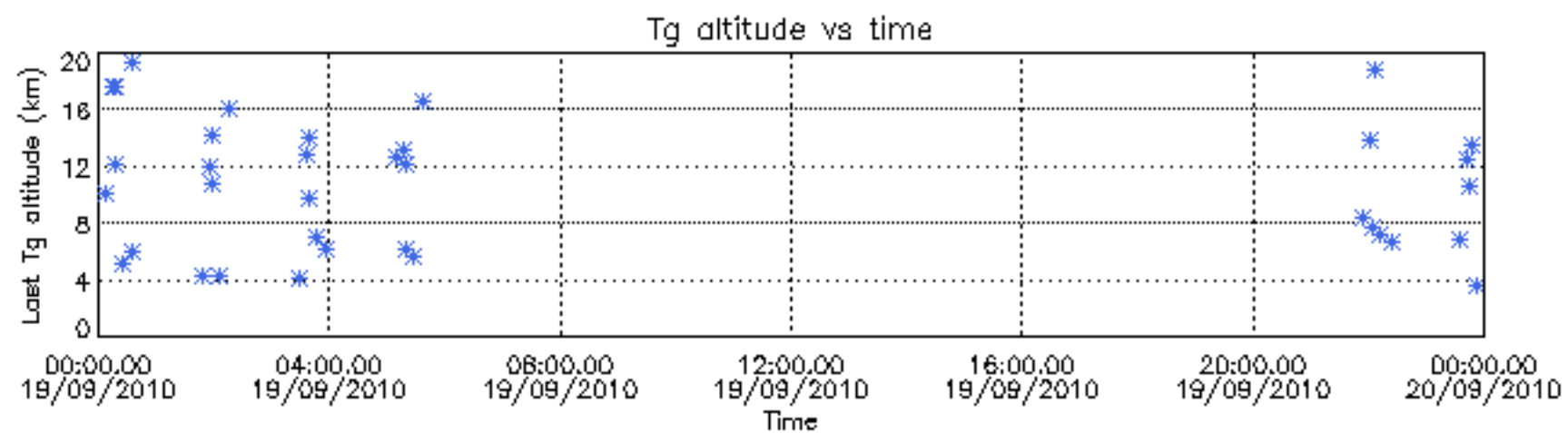


Percentage of saturation errors per profile

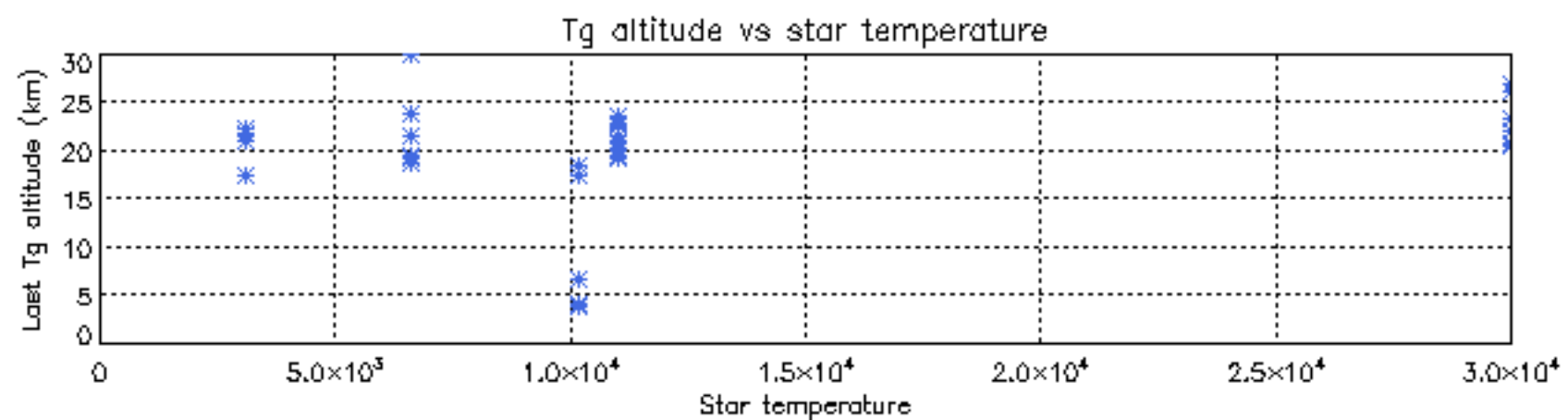
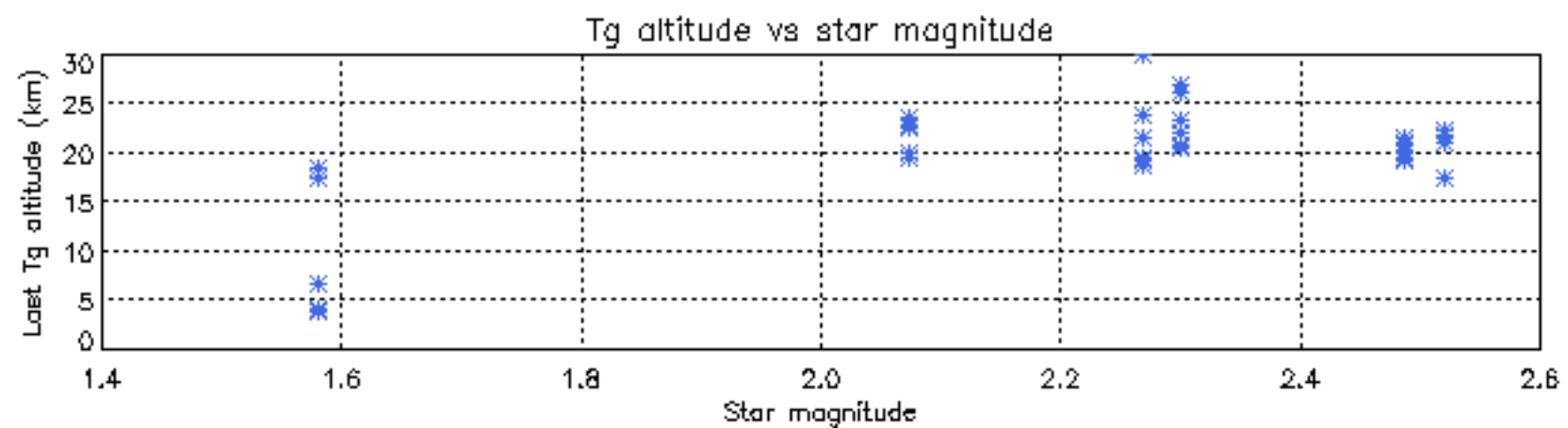
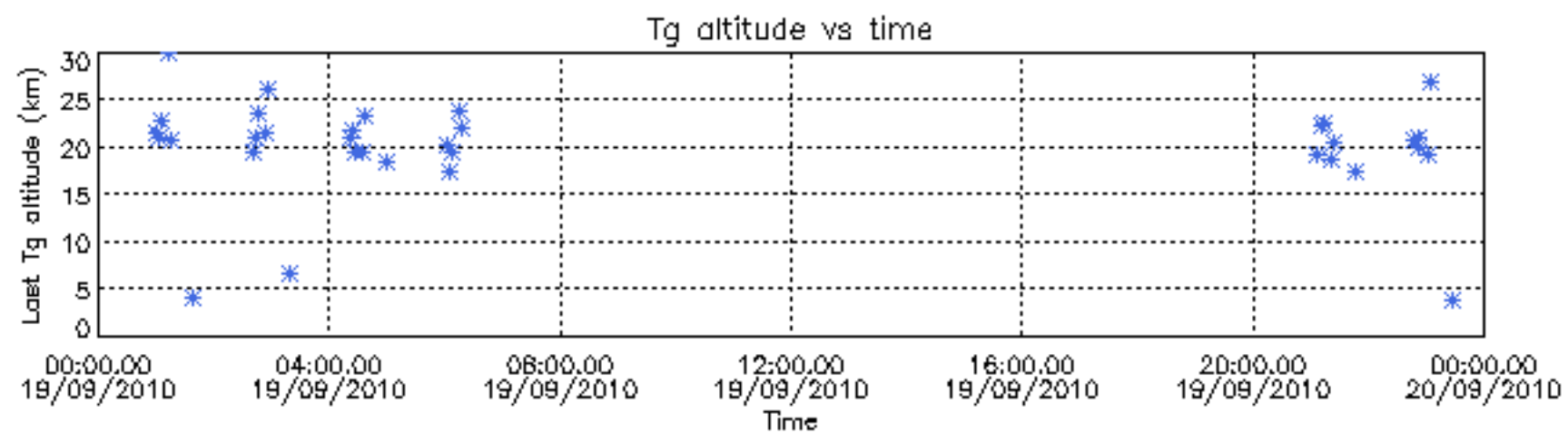


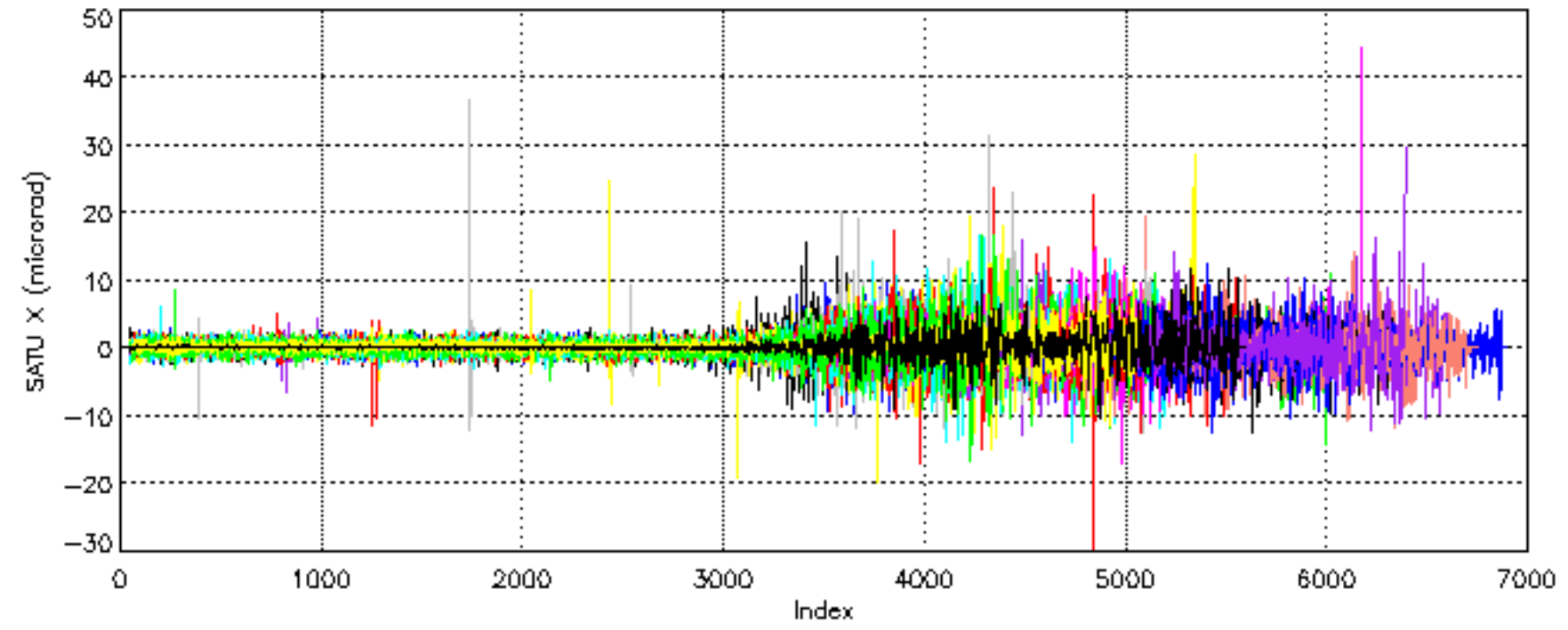


Tangent altitude at which the star is lost

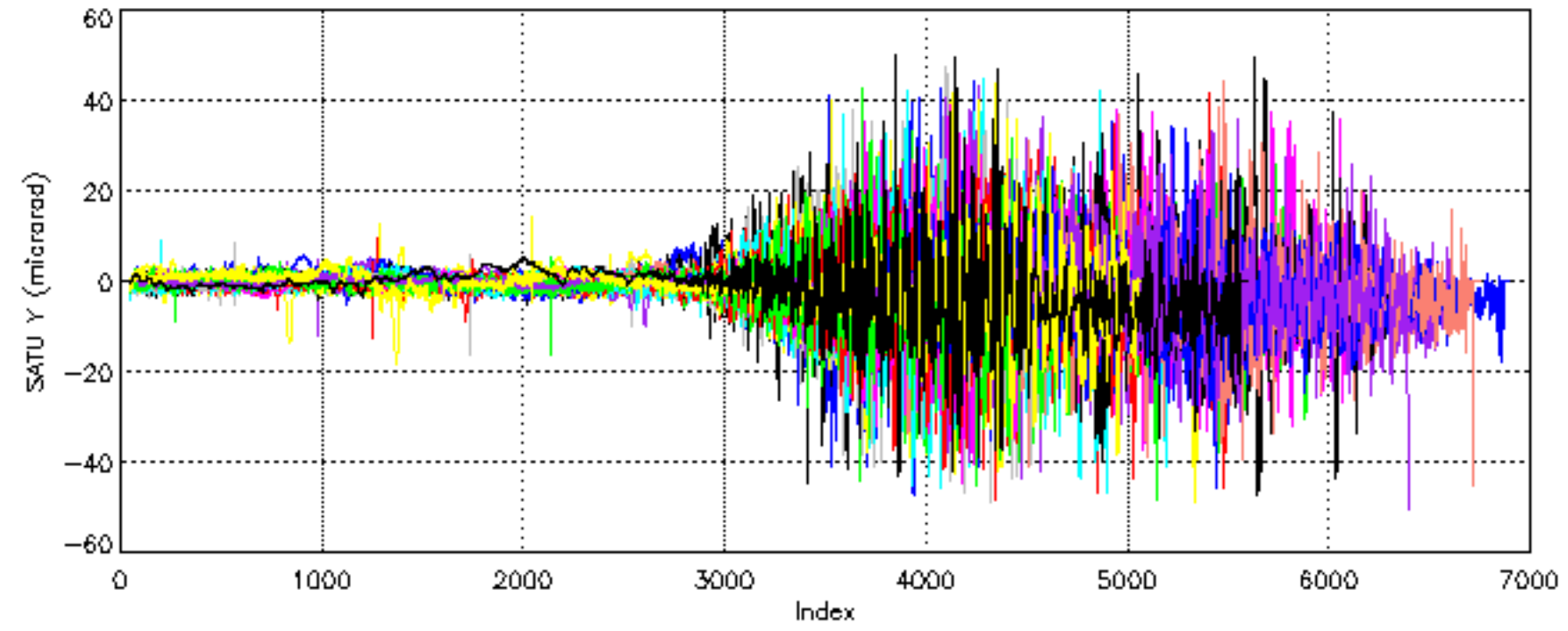


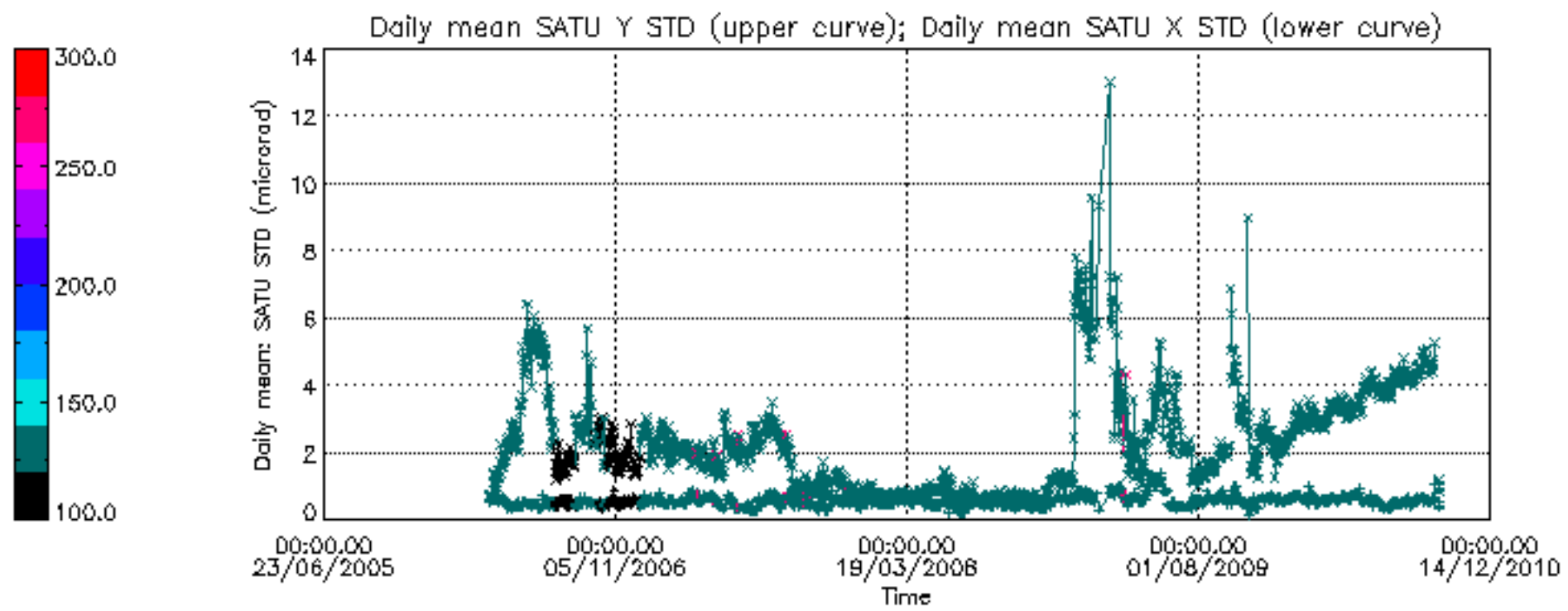
Tangent altitude at which the star is lost











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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100901_011807_000013212092_00317_44459_0811.N1
 1; -664.1; 01-SEP-2010 01:18:07; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;44459
 2; -498.0; 01-SEP-2010 01:20:53; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;44459
 3; -356.2; 01-SEP-2010 01:23:15; Dark ; 58.5; 139; 9Bet Lep ; 2.83; 5600;occ; 117; 0;44459
 4; -241.6; 01-SEP-2010 01:25:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44459
 5; 525.7; 01-SEP-2010 01:37:57; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;44460
 6; 602.5; 01-SEP-2010 01:39:14; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;44460
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100901_011807_000092462092_00317_44459_0808.N1
 1; -664.1; 01-SEP-2010 01:18:07; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;44459
 2; -498.0; 01-SEP-2010 01:20:53; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;44459
 3; -356.2; 01-SEP-2010 01:23:15; Dark ; 58.5; 139; 9Bet Lep ; 2.83; 5600;occ; 117; 0;44459
 4; -241.6; 01-SEP-2010 01:25:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44459
 5; 525.7; 01-SEP-2010 01:37:57; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;44460
 6; 602.5; 01-SEP-2010 01:39:14; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;44460
 7; 960.0; 01-SEP-2010 01:45:11; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;44460
 8; 1328.3; 01-SEP-2010 01:51:20; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;44460
 9; 1895.5; 01-SEP-2010 02:00:47; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;44460
10; 2075.4; 01-SEP-2010 02:03:47; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;44460
11; 2502.6; 01-SEP-2010 02:10:54; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;44460
12; 2975.7; 01-SEP-2010 02:18:47; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;44460
13; 3144.6; 01-SEP-2010 02:21:36; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;44460
14; 3273.1; 01-SEP-2010 02:23:44; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44460
15; 4208.2; 01-SEP-2010 02:39:19; Bright; 47.5; 42; 34Bet Aur ; 1.90; 10200;occ; 95; 0;44460
16; 4451.8; 01-SEP-2010 02:43:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;44460
17; 4685.8; 01-SEP-2010 02:47:17; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;44460
18; 4791.2; 01-SEP-2010 02:49:02; Dark ; 51.5; 44; 24Gam Gem ; 1.93; 11000;occ; 103; 0;44460
19; 4913.8; 01-SEP-2010 02:51:05; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;44460
20; 5372.6; 01-SEP-2010 02:58:44; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;44460
21; 5538.4; 01-SEP-2010 03:01:30; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;44460
22; 5680.7; 01-SEP-2010 03:03:52; Dark ; 52.0; 139; 9Bet Lep ; 2.83; 5600;occ; 104; 0;44460
23; 5795.5; 01-SEP-2010 03:05:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44460
24; 6562.2; 01-SEP-2010 03:18:33; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44461
25; 6638.7; 01-SEP-2010 03:19:50; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;44461
26; 6996.5; 01-SEP-2010 03:25:48; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;44461
27; 7364.8; 01-SEP-2010 03:31:56; Dark ; 50.0; 18; 24Alp PsA ; 1.17; 9700;occ; 100; 0;44461
28; 7931.4; 01-SEP-2010 03:41:23; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;44461
29; 8111.5; 01-SEP-2010 03:44:23; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;44461
30; 8537.9; 01-SEP-2010 03:51:29; Bright; 45.0; 164; 44Eta Peg ; 2.95; 5400;occ; 90; 0;44461
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 1; 960.5; 01-SEP-2010 01:45:12; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 1;44460
 2; 1328.3; 01-SEP-2010 01:51:20; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;44460
 3; 1895.5; 01-SEP-2010 02:00:47; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;44460
 4; 2075.4; 01-SEP-2010 02:03:47; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;44460
 5; 2502.6; 01-SEP-2010 02:10:54; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;44460
 6; 2975.7; 01-SEP-2010 02:18:47; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;44460
 7; 3144.6; 01-SEP-2010 02:21:36; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;44460
 8; 3273.1; 01-SEP-2010 02:23:44; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44460
 9; 4208.2; 01-SEP-2010 02:39:19; Bright; 47.5; 42; 34Bet Aur ; 1.90; 10200;occ; 95; 0;44460
10; 4451.8; 01-SEP-2010 02:43:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;44460
11; 4685.8; 01-SEP-2010 02:47:17; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;44460
12; 4791.2; 01-SEP-2010 02:49:02; Dark ; 51.5; 44; 24Gam Gem ; 1.93; 11000;occ; 103; 0;44460
13; 4913.8; 01-SEP-2010 02:51:05; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;44460
14; 5372.6; 01-SEP-2010 02:58:44; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;44460
15; 5538.4; 01-SEP-2010 03:01:30; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;44460
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5; -116.5; 08-SEP-2010 21:14:18; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;44571
6; 667.6; 08-SEP-2010 21:27:22; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;44572
7; 1020.3; 08-SEP-2010 21:33:15; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;44572
8; 1357.3; 08-SEP-2010 21:38:52; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;44572
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7; 4838.4; 08-SEP-2010 10:52:42; Dark ; 56.0; 44; 24Gam Gem ; 1.93; 11000;occ; 112; 0;44565
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6; 4638.9; 08-SEP-2010 12:29:58; Dark ; 53.5; 170; 27Eps Gem ; 3.00; 9700;occ; 107; 0;44566
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13; 5724.8; 08-SEP-2010 17:49:52; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;44569  
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3; 2458.6; 08-SEP-2010 18:36:02; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;44570  
4; 3080.1; 08-SEP-2010 18:46:23; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;44570  
5; 3199.1; 08-SEP-2010 18:48:22; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;44570  
6; 4191.3; 08-SEP-2010 19:04:54; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;44570  
7; 4467.1; 08-SEP-2010 19:09:30; Bright; 40.5; 24; 66Alp Gem ; 1.58; 10200;occ; 81; 0;44570  
8; 4640.0; 08-SEP-2010 19:12:23; Dark ; 52.5; 170; 27Eps Gem ; 3.00; 9700;occ; 105; 0;44570  
9; 4840.9; 08-SEP-2010 19:15:44; Dark ; 57.0; 44; 24Gam Gem ; 1.93; 11000;occ; 114; 0;44570  
10; 4953.2; 08-SEP-2010 19:17:36; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;44570  
11; 5450.6; 08-SEP-2010 19:25:54; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;44570  
12; 5602.7; 08-SEP-2010 19:28:26; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;44570  
13; 5725.9; 08-SEP-2010 19:30:29; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;44570  
14; 5814.1; 08-SEP-2010 19:31:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44570  
15; 5918.3; 08-SEP-2010 19:33:41; Dark ; 49.0; 108; Alp Col ; 2.65; 15200;occ; 98; 0;44570  
16; 6703.4; 08-SEP-2010 19:46:46; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;44571

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2; -431.2; 09-SEP-2010 00:30:15; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;44573  
3; -219.5; 09-SEP-2010 00:33:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44573  
4; 669.1; 09-SEP-2010 00:48:36; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;44574  
5; 1021.3; 09-SEP-2010 00:54:28; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;44574  
6; 1357.6; 09-SEP-2010 01:00:04; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;44574  
7; 2203.8; 09-SEP-2010 01:14:10; Bright; 45.0; 90; 54Alp Peg ; 2.49; 11000;occ; 90; 0;44574  
8; 2457.2; 09-SEP-2010 01:18:24; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;44574  
9; 3077.9; 09-SEP-2010 01:28:44; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44574  
10; 3196.5; 09-SEP-2010 01:30:43; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;44574  
11; 4190.4; 09-SEP-2010 01:47:17; Bright; 49.5; 42; 34Bet Aur ; 1.90; 10200;occ; 99; 0;44574  
12; 4467.5; 09-SEP-2010 01:51:54; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;44574  
13; 4641.0; 09-SEP-2010 01:54:48; Dark ; 54.5; 170; 27Eps Gem ; 3.00; 9700;occ; 109; 0;44574  
14; 4843.0; 09-SEP-2010 01:58:10; Dark ; 55.0; 44; 24Gam Gem ; 1.93; 11000;occ; 110; 0;44574  
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2; -430.6; 09-SEP-2010 02:10:52; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;44574  
3; -218.7; 09-SEP-2010 02:14:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44574  
4; 669.4; 09-SEP-2010 02:29:12; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;44575



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6; 1357.8; 09-SEP-2010 02:40:40; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;44575
7; 2203.3; 09-SEP-2010 02:54:46; Bright; 44.0; 90; 54Alp Peg ; 2.49; 11000;occ; 88; 0;44575
8; 2457.2; 09-SEP-2010 02:59:00; Bright; 42.5; 164; 44Eta Peg ; 2.95; 5400;occ; 85; 0;44575
9; 3077.3; 09-SEP-2010 03:09:20; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;44575
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2; -1568.3; 09-SEP-2010 03:32:30; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;44575
3; -1394.5; 09-SEP-2010 03:35:24; Dark ; 56.5; 170; 27Eps Gem ; 3.00; 9700;occ; 113; 0;44575
4; -1192.4; 09-SEP-2010 03:38:46; Dark ; 55.0; 44; 24Gam Gem ; 1.93; 11000;occ; 110; 0;44575
5; -1080.9; 09-SEP-2010 03:40:37; Dark ; 58.0; 8; 10Alp CMi ; 0.40; 6500;occ; 116; 0;44575
6; -581.3; 09-SEP-2010 03:48:57; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;44575
7; -430.0; 09-SEP-2010 03:51:28; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;44575
8; -306.0; 09-SEP-2010 03:53:32; Dark ; 45.5; 177; 1Zet CMA ; 3.02; 26000;occ; 91; 0;44575
9; -217.9; 09-SEP-2010 03:55:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44575
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11; 670.4; 09-SEP-2010 04:09:49; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;44576
12; 1022.6; 09-SEP-2010 04:15:41; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44576
13; 1358.2; 09-SEP-2010 04:21:17; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;44576
14; 2203.6; 09-SEP-2010 04:35:22; Bright; 42.5; 90; 54Alp Peg ; 2.49; 11000;occ; 85; 0;44576
15; 2456.9; 09-SEP-2010 04:39:35; Bright; 40.0; 164; 44Eta Peg ; 2.95; 5400;occ; 80; 0;44576
16; 3076.7; 09-SEP-2010 04:49:55; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44576
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3; -1394.3; 09-SEP-2010 05:16:00; Dark ; 51.5; 170; 27Eps Gem ; 3.00; 9700;occ; 103; 0;44576
4; -1192.0; 09-SEP-2010 05:19:22; Dark ; 56.5; 44; 24Gam Gem ; 1.93; 11000;occ; 113; 0;44576
5; -1080.4; 09-SEP-2010 05:21:14; Dark ; 55.5; 8; 10Alp CMi ; 0.40; 6500;occ; 111; 0;44576
6; -580.5; 09-SEP-2010 05:29:34; Dark ; 60.5; 1; 9Alp CMA ; -1.44; 11000;occ; 121; 0;44576
7; -429.2; 09-SEP-2010 05:32:05; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;44576
8; -305.1; 09-SEP-2010 05:34:09; Dark ; 44.0; 177; 1Zet CMA ; 3.02; 26000;occ; 88; 0;44576
9; -217.1; 09-SEP-2010 05:35:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44576
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11; 671.1; 09-SEP-2010 05:50:26; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;44577
12; 1023.1; 09-SEP-2010 05:56:17; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;44577
13; 1358.4; 09-SEP-2010 06:01:53; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;44577
14; 2203.0; 09-SEP-2010 06:15:57; Bright; 43.0; 90; 54Alp Peg ; 2.49; 11000;occ; 86; 0;44577
15; 2456.9; 09-SEP-2010 06:20:11; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;44577
16; 3076.2; 09-SEP-2010 06:30:31; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;44577
17; 3194.9; 09-SEP-2010 06:32:29; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;44577
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2; 4377.8; 09-SEP-2010 21:57:36; Bright; 57.0; 107; 37The Aur ; 2.65; 11000;occ; 114; 0;44586
3; 4849.2; 09-SEP-2010 22:05:27; Dark ; 57.5; 44; 24Gam Gem ; 1.93; 11000;occ; 115; 0;44586
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3; 4377.7; 09-SEP-2010 23:38:11; Bright; 55.0; 107; 37The Aur ; 2.65; 11000;occ; 110; 0;44587
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2; -1567.8; 09-SEP-2010 06:53:43; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;44577
3; -1393.9; 09-SEP-2010 06:56:36; Dark ; 55.0; 170; 27Eps Gem ; 3.00; 9700;occ; 110; 0;44577
4; -1191.4; 09-SEP-2010 06:59:59; Dark ; 54.0; 44; 24Gam Gem ; 1.93; 11000;occ; 108; 0;44577
5; -1080.2; 09-SEP-2010 07:01:50; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;44577
6; -579.6; 09-SEP-2010 07:10:11; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;44577
7; -428.5; 09-SEP-2010 07:12:42; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;44577
8; -304.0; 09-SEP-2010 07:14:46; Dark ; 45.5; 177; 1Zet CMA ; 3.02; 26000;occ; 91; 0;44577
9; -216.3; 09-SEP-2010 07:16:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44577
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3; 3076.1; 09-SEP-2010 08:11:06; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;44578

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7; 4642.3; 09-SEP-2010 08:37:13; Dark ; 52.5; 170; 27Eps Gem ; 3.00; 9700;occ; 105; 0;44578  
8; 4845.2; 09-SEP-2010 08:40:36; Dark ; 57.0; 44; 24Gam Gem ; 1.93; 11000;occ; 114; 0;44578  
9; 4956.2; 09-SEP-2010 08:42:27; Dark ; 49.5; 8; 10Alp CMi ; 0.40; 6500;occ; 99; 0;44578  
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12; 5732.9; 09-SEP-2010 08:55:23; Dark ; 46.5; 177; 1Zet CMA ; 3.02; 26000;occ; 93; 0;44578  
13; 5820.5; 09-SEP-2010 08:56:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44578  
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3; 3015.7; 09-SEP-2010 11:31:18; Bright; 72.5; 53; 43Bet And ; 2.05; 3300;occ; 145; 0;44580  
4; 3260.5; 09-SEP-2010 11:35:23; Bright; 45.5; 110; 37Del Cas ; 2.68; 8900;occ; 91; 0;44580  
5; 3391.3; 09-SEP-2010 11:37:33; Bright; 77.5; 73; 57Gam1And ; 2.26; 13100;occ; 155; 0;44580  
6; 3593.4; 09-SEP-2010 11:40:55; Bright; 58.0; 160; 23Gam Per ; 2.93; 4700;occ; 116; 0;44580  
7; 3719.8; 09-SEP-2010 11:43:02; Bright; 68.5; 35; 33Alp Per ; 1.79; 6250;occ; 137; 0;44580  
8; 3834.2; 09-SEP-2010 11:44:56; Bright; 68.0; 175; 39Del Per ; 3.01; 19400;occ; 136; 0;44580  
9; 4118.1; 09-SEP-2010 11:49:40; Bright; 65.0; 6; 13Alp Aur ; 0.08; 3400;occ; 130; 0;44580  
10; 4378.0; 09-SEP-2010 11:54:00; Bright; 78.0; 107; 37The Aur ; 2.65; 11000;occ; 156; 0;44580  
11; 4649.8; 09-SEP-2010 11:58:32; Dark ; 81.5; 28; 12Bet Tau ; 1.65; 15200;occ; 163; 0;44580  
12; 4846.3; 09-SEP-2010 12:01:48; Dark ; 56.5; 44; 24Gam Gem ; 1.93; 11000;occ; 113; 0;44580  
13; 5189.9; 09-SEP-2010 12:07:32; Dark ; 100.0; 14; 58Alp Ori ; 0.87; 3000;occ; 200; 0;44580  
14; 5406.7; 09-SEP-2010 12:11:09; Dark ; 26.5; 27; 24Gam Ori ; 1.64; 26000;occ; 53; 0;44580  
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3; 3589.5; 09-SEP-2010 18:23:15; Bright; 59.5; 160; 23Gam Per ; 2.93; 4700;occ; 119; 0;44584  
4; 4116.7; 09-SEP-2010 18:32:03; Bright; 61.0; 6; 13Alp Aur ; 0.08; 3400;occ; 122; 0;44584  
5; 4378.0; 09-SEP-2010 18:36:24; Bright; 49.0; 107; 37The Aur ; 2.65; 11000;occ; 98; 0;44584  
6; 5954.5; 09-SEP-2010 19:02:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44584  
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3; 4116.1; 09-SEP-2010 20:12:38; Bright; 68.0; 6; 13Alp Aur ; 0.08; 3400;occ; 136; 0;44585  
4; 4377.8; 09-SEP-2010 20:17:00; Bright; 54.0; 107; 37The Aur ; 2.65; 11000;occ; 108; 0;44585  
5; 5955.8; 09-SEP-2010 20:43:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44585  
6; 6666.5; 09-SEP-2010 20:55:08; Dark ; 37.0; 157; The1Eri ; 2.91; 9300;occ; 74; 0;44586  
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3; 4114.8; 10-SEP-2010 01:14:24; Bright; 68.5; 6; 13Alp Aur ; 0.08; 3400;occ; 137; 0;44588  
4; 4377.7; 10-SEP-2010 01:18:47; Bright; 56.5; 107; 37The Aur ; 2.65; 11000;occ; 113; 0;44588  
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2; 2606.9; 10-SEP-2010 02:29:52; Bright; 53.0; 58; 21Alp And ; 2.07; 11000;occ; 106; 0;44589  
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2; -235.0; 10-SEP-2010 03:23:06; Dark ; 64.0; 101; 11Alp Lep ; 2.58; 7000;occ; 128; 0;44589  
3; -74.4; 10-SEP-2010 03:25:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44589  
4; 635.2; 10-SEP-2010 03:37:36; Dark ; 22.5; 157; The1Eri ; 2.91; 9300;occ; 45; 0;44590  
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6; 2606.1; 10-SEP-2010 04:10:27; Bright; 54.0; 58; 21Alp And ; 2.07; 11000;occ; 108; 0;44590  
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3; 637.0; 10-SEP-2010 06:58:50; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;44592

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3; 638.9; 10-SEP-2010 08:39:28; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;44593
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3; 4377.5; 10-SEP-2010 09:41:47; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;44593
4; 5967.2; 10-SEP-2010 10:08:16; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44593
5; 6675.5; 10-SEP-2010 10:20:05; Dark ; 57.0; 157; The1Eri ; 2.91; 9300;occ; 114; 0;44594
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3; 3704.6; 10-SEP-2010 11:11:10; Bright; 66.0; 35; 33Alp Per ; 1.79; 6250;occ; 132; 0;44594
4; 4112.3; 10-SEP-2010 11:17:57; Bright; 17.5; 6; 13Alp Aur ; 0.08; 3400;occ; 35; 0;44594
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6; 4854.0; 10-SEP-2010 11:30:19; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;44594
7; 5968.6; 10-SEP-2010 11:48:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44594
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3; 4111.9; 10-SEP-2010 12:58:33; Bright; 65.0; 6; 13Alp Aur ; 0.08; 3400;occ; 130; 0;44595
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3; 3536.5; 13-SEP-2010 09:33:30; Bright; 59.5; 160; 23Gam Per ; 2.93; 4700;occ; 119; 0;44636
4; 4376.0; 13-SEP-2010 09:47:30; Bright; 57.0; 107; 37The Aur ; 2.65; 11000;occ; 114; 0;44636
5; 4879.3; 13-SEP-2010 09:55:53; Dark ; 61.5; 44; 24Gam Gem ; 1.93; 11000;occ; 123; 0;44636
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3; 2177.8; 16-SEP-2010 21:00:48; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;44686
4; 2409.2; 16-SEP-2010 21:04:39; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;44686
5; 2530.2; 16-SEP-2010 21:06:40; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44686
6; 3023.0; 16-SEP-2010 21:14:53; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44686
7; 3129.8; 16-SEP-2010 21:16:40; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;44686
8; 4482.9; 16-SEP-2010 21:39:13; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44686
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6; 643.1; 16-SEP-2010 22:15:49; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;44687
7; 728.9; 16-SEP-2010 22:17:15; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;44687
8; 1071.7; 16-SEP-2010 22:22:57; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;44687
9; 1528.8; 16-SEP-2010 22:30:34; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;44687
10; 2177.6; 16-SEP-2010 22:41:23; Bright; 40.5; 90; 54Alp Peg ; 2.49; 11000;occ; 81; 0;44687

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13; 3022.5; 16-SEP-2010 22:55:28; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44687
14; 3129.2; 16-SEP-2010 22:57:15; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44687
15; 4482.9; 16-SEP-2010 23:19:49; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44687
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 3; 3025.8; 16-SEP-2010 11:11:20; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;44680
 4; 3133.0; 16-SEP-2010 11:13:07; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;44680
 5; 4482.1; 16-SEP-2010 11:35:36; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44680
 6; 5004.8; 16-SEP-2010 11:44:19; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;44680
 7; 5450.5; 16-SEP-2010 11:51:45; Dark ; 39.0; 132; 15Rho Pup ; 2.80; 6900;occ; 78; 0;44680
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11; 5909.2; 16-SEP-2010 11:59:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44680
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14; 6761.9; 16-SEP-2010 12:13:36; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;44681
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 4; 3132.7; 16-SEP-2010 12:53:43; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44681
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13; 6676.8; 16-SEP-2010 13:52:47; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;44682
14; 6762.4; 16-SEP-2010 13:54:12; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;44682
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 6; 3132.1; 16-SEP-2010 14:34:18; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44682
 7; 4482.5; 16-SEP-2010 14:56:48; Bright; 41.5; 24; 66Alp Gem ; 1.58; 10200;occ; 83; 0;44682
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11; 5687.7; 16-SEP-2010 15:16:54; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;44682
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13; 6062.4; 16-SEP-2010 15:23:08; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;44683
14; 6677.2; 16-SEP-2010 15:33:23; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44683
15; 6762.9; 16-SEP-2010 15:34:49; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;44683
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 3; 2410.1; 16-SEP-2010 16:02:52; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;44683
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9; 5452.2; 16-SEP-2010 16:53:34; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;44683
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11; 5688.5; 16-SEP-2010 16:57:30; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;44683
12; 5912.1; 16-SEP-2010 17:01:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44683
13; 6063.3; 16-SEP-2010 17:03:45; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44684
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16; 7106.7; 16-SEP-2010 17:21:09; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;44684
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5; 3023.9; 16-SEP-2010 17:53:42; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44684
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4; 2393.4; 22-SEP-2010 21:15:52; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;44772
5; 2481.0; 22-SEP-2010 21:17:20; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44772
6; 2988.5; 22-SEP-2010 21:25:47; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;44772
7; 3084.6; 22-SEP-2010 21:27:23; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;44772
8; 4494.9; 22-SEP-2010 21:50:54; Bright; 48.0; 24; 66Alp Gem ; 1.58; 10200;occ; 96; 0;44772
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3; -222.3; 22-SEP-2010 22:12:52; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;44772
4; -35.3; 22-SEP-2010 22:15:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44772
5; 85.2; 22-SEP-2010 22:18:00; Dark ; 53.0; 2; Alp Car ;-0.74; 7000;occ; 106; 0;44773
6; 769.5; 22-SEP-2010 22:29:24; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;44773
7; 1103.9; 22-SEP-2010 22:34:58; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44773
8; 1541.1; 22-SEP-2010 22:42:16; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;44773
9; 2168.2; 22-SEP-2010 22:52:43; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;44773
10; 2393.3; 22-SEP-2010 22:56:28; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;44773
11; 2480.5; 22-SEP-2010 22:57:55; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;44773
12; 2988.0; 22-SEP-2010 23:06:23; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44773

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6; 769.9; 23-SEP-2010 00:10:00; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;44774
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8; 1541.1; 23-SEP-2010 00:22:51; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;44774
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12; 2987.7; 23-SEP-2010 00:46:58; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44774
13; 3083.7; 23-SEP-2010 00:48:34; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44774
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5; -229.2; 22-SEP-2010 07:07:22; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;44763
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3; 2484.9; 22-SEP-2010 07:52:36; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;44764
4; 2991.3; 22-SEP-2010 08:01:03; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44764
5; 3088.6; 22-SEP-2010 08:02:40; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44764
6; 4493.6; 22-SEP-2010 08:26:05; Bright; 56.5; 24; 66Alp Gem ; 1.58; 10200;occ; 113; 0;44764
7; 5056.0; 22-SEP-2010 08:35:27; Dark ; 64.0; 8; 10Alp CMI ; 0.40; 6500;occ; 128; 0;44764
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3; 2484.4; 22-SEP-2010 09:33:12; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;44765
4; 2991.0; 22-SEP-2010 09:41:38; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44765
5; 3088.1; 22-SEP-2010 09:43:15; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44765
6; 4493.7; 22-SEP-2010 10:06:41; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;44765
7; 5056.6; 22-SEP-2010 10:16:04; Dark ; 60.0; 8; 10Alp CMI ; 0.40; 6500;occ; 120; 0;44765
8; 5496.9; 22-SEP-2010 10:23:24; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;44765
9; 5695.3; 22-SEP-2010 10:26:43; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44765
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11; 5993.3; 22-SEP-2010 10:31:40; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44765
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4; 2990.7; 22-SEP-2010 11:22:14; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44766
5; 3087.6; 22-SEP-2010 11:23:51; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44766

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9; 5696.2; 22-SEP-2010 12:07:19; Dark ; 53.5; 37; 25Del CMa ; 1.83; 5900;occ; 107; 0;44766
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4; 2990.3; 22-SEP-2010 13:02:49; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44767
5; 3087.0; 22-SEP-2010 13:04:26; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;44767
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7; 5058.0; 22-SEP-2010 13:37:17; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;44767
8; 5498.3; 22-SEP-2010 13:44:37; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44767
9; 5697.3; 22-SEP-2010 13:47:56; Dark ; 51.5; 37; 25Del CMa ; 1.83; 5900;occ; 103; 0;44767
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4; 2482.9; 22-SEP-2010 14:34:58; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;44768
5; 2990.0; 22-SEP-2010 14:43:25; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;44768
6; 3086.7; 22-SEP-2010 14:45:02; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44768
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4; 2482.5; 22-SEP-2010 16:15:33; Bright; 42.5; 58; 21Alp And ; 2.07; 11000;occ; 85; 0;44769
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7; 4494.4; 22-SEP-2010 16:49:05; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;44769
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 2; 1540.7; 22-SEP-2010 19:21:03; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;44771
 3; 2168.5; 22-SEP-2010 19:31:31; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;44771
 4; 2393.5; 22-SEP-2010 19:35:16; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44771
 5; 2481.4; 22-SEP-2010 19:36:44; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;44771
 6; 2988.9; 22-SEP-2010 19:45:12; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44771
 7; 3085.1; 22-SEP-2010 19:46:48; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;44771
 8; 4494.6; 22-SEP-2010 20:10:17; Bright; 49.5; 24; 66Alp Gem ; 1.58; 10200;occ; 99; 0;44771
 9; 5060.7; 22-SEP-2010 20:19:43; Dark ; 55.0; 8; 10Alp CMI ; 0.40; 6500;occ; 110; 0;44771
10; 5500.6; 22-SEP-2010 20:27:03; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;44771
11; 5701.2; 22-SEP-2010 20:30:24; Dark ; 56.5; 37; 25Del CMA ; 1.83; 5900;occ; 113; 0;44771
12; 5812.7; 22-SEP-2010 20:32:16; Dark ; 52.5; 117; Pi Pup ; 2.71; 3800;occ; 105; 0;44771
13; 5999.6; 22-SEP-2010 20:35:22; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44771
14; 6120.3; 22-SEP-2010 20:37:23; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;44772
15; 6805.0; 22-SEP-2010 20:48:48; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;44772
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 1; -533.6; 23-SEP-2010 01:28:53; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;44774
 2; -331.8; 23-SEP-2010 01:32:14; Dark ; 51.5; 37; 25Del CMA ; 1.83; 5900;occ; 103; 0;44774
 3; -220.7; 23-SEP-2010 01:34:06; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;44774
 4; -33.2; 23-SEP-2010 01:37:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44774
 5; 86.6; 23-SEP-2010 01:39:13; Dark ; 56.5; 2; Alp Car ; -0.74; 7000;occ; 113; 0;44775
 6; 770.4; 23-SEP-2010 01:50:37; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;44775
 7; 1104.5; 23-SEP-2010 01:56:11; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;44775
 8; 1541.3; 23-SEP-2010 02:03:28; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44775
 9; 2167.9; 23-SEP-2010 02:13:54; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44775
10; 2392.9; 23-SEP-2010 02:17:39; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;44775
11; 2479.5; 23-SEP-2010 02:19:06; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;44775
12; 2987.5; 23-SEP-2010 02:27:34; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44775
13; 3083.1; 23-SEP-2010 02:29:09; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44775
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 1; -1540.8; 23-SEP-2010 02:52:41; Bright; 68.0; 24; 66Alp Gem ; 1.58; 10200;occ; 136; 0;44775
 2; -972.4; 23-SEP-2010 03:02:10; Dark ; 60.0; 8; 10Alp CMI ; 0.40; 6500;occ; 120; 0;44775
 3; -532.8; 23-SEP-2010 03:09:29; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;44775
 4; -330.9; 23-SEP-2010 03:12:51; Dark ; 49.0; 37; 25Del CMA ; 1.83; 5900;occ; 98; 0;44775
 5; -219.9; 23-SEP-2010 03:14:42; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;44775
 6; -32.1; 23-SEP-2010 03:17:50; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44775
 7; 87.3; 23-SEP-2010 03:19:49; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44776
 8; 771.0; 23-SEP-2010 03:31:13; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;44776
 9; 1105.0; 23-SEP-2010 03:36:47; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44776
10; 1541.6; 23-SEP-2010 03:44:04; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;44776
11; 2168.1; 23-SEP-2010 03:54:30; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;44776
12; 2392.9; 23-SEP-2010 03:58:15; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;44776
13; 2479.0; 23-SEP-2010 03:59:41; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;44776
14; 2987.2; 23-SEP-2010 04:08:09; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44776
15; 3082.9; 23-SEP-2010 04:09:45; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44776
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 2; -971.8; 23-SEP-2010 04:42:46; Dark ; 60.5; 8; 10Alp CMI ; 0.40; 6500;occ; 121; 0;44776
 3; -532.4; 23-SEP-2010 04:50:06; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44776
 4; -342.5; 23-SEP-2010 04:53:16; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44776
 5; -260.4; 23-SEP-2010 04:54:38; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;44776
 6; -121.5; 23-SEP-2010 04:56:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44776
 7; 5.4; 23-SEP-2010 04:59:04; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;44776
 8; 87.9; 23-SEP-2010 05:00:26; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;44777
 9; 771.5; 23-SEP-2010 05:11:50; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;44777
10; 1105.3; 23-SEP-2010 05:17:23; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;44777
11; 1541.6; 23-SEP-2010 05:24:40; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;44777
12; 2168.0; 23-SEP-2010 05:35:06; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44777
13; 2392.9; 23-SEP-2010 05:38:51; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;44777
14; 2478.6; 23-SEP-2010 05:40:17; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44777
15; 2986.6; 23-SEP-2010 05:48:45; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44777
16; 3082.2; 23-SEP-2010 05:50:20; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44777

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1;	1542.4;	23-SEP-2010	15:28:16;	Dark	;	54.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	108;	0;	44783
2;	2167.7;	23-SEP-2010	15:38:41;	Bright;	;	38.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	77;	0;	44783
3;	2392.2;	23-SEP-2010	15:42:26;	Bright;	;	39.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	79;	0;	44783
4;	2475.7;	23-SEP-2010	15:43:49;	Bright;	;	43.0;	58;	21Alp	And	;	2.07;	11000;	occ;	86;	0;	44783
5;	2984.7;	23-SEP-2010	15:52:18;	Bright;	;	37.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	75;	0;	44783
6;	3079.6;	23-SEP-2010	15:53:53;	Bright;	;	41.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	83;	0;	44783
7;	4496.5;	23-SEP-2010	16:17:30;	Bright;	;	47.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	95;	0;	44783
8;	5069.5;	23-SEP-2010	16:27:03;	Dark	;	69.0;	8;	10Alp	CMI	;	0.40;	6500;	occ;	138;	0;	44783
9;	5508.2;	23-SEP-2010	16:34:22;	Dark	;	40.5;	132;	15Rho	Pup	;	2.80;	6900;	occ;	81;	0;	44783
10;	5681.4;	23-SEP-2010	16:37:15;	Dark	;	67.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	134;	0;	44783
11;	5782.9;	23-SEP-2010	16:38:56;	Dark	;	46.5;	23;	21Eps	CMA	;	1.50;	26000;	occ;	93;	0;	44783
12;	5919.0;	23-SEP-2010	16:41:13;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44783
13;	6046.0;	23-SEP-2010	16:43:20;	Dark	;	43.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	86;	0;	44784
14;	6183.2;	23-SEP-2010	16:45:37;	Dark	;	54.0;	108;	Alp	Col	;	2.65;	15200;	occ;	108;	0;	44784
15;	6864.6;	23-SEP-2010	16:56:58;	Dark	;	51.5;	157;	The1Eri		;	2.91;	9300;	occ;	103;	0;	44784
16;	7143.8;	23-SEP-2010	17:01:37;	Dark	;	45.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	90;	0;	44784

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1;	1542.6;	23-SEP-2010	17:08:52;	Dark	;	55.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	110;	0;	44784
2;	2167.8;	23-SEP-2010	17:19:17;	Bright;	;	38.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	76;	0;	44784
3;	2391.8;	23-SEP-2010	17:23:01;	Bright;	;	40.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	81;	0;	44784
4;	2475.3;	23-SEP-2010	17:24:25;	Bright;	;	43.0;	58;	21Alp	And	;	2.07;	11000;	occ;	86;	0;	44784
5;	2984.2;	23-SEP-2010	17:32:54;	Bright;	;	40.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	81;	0;	44784
6;	3079.0;	23-SEP-2010	17:34:29;	Bright;	;	40.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	81;	0;	44784
7;	4496.5;	23-SEP-2010	17:58:06;	Bright;	;	49.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	99;	0;	44784
8;	5070.1;	23-SEP-2010	18:07:40;	Dark	;	63.5;	8;	10Alp	CMI	;	0.40;	6500;	occ;	127;	0;	44784
9;	5508.9;	23-SEP-2010	18:14:58;	Dark	;	42.0;	132;	15Rho	Pup	;	2.80;	6900;	occ;	84;	0;	44784
10;	5682.8;	23-SEP-2010	18:17:52;	Dark	;	61.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	122;	0;	44784
11;	5783.8;	23-SEP-2010	18:19:33;	Dark	;	54.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	108;	0;	44784
12;	5919.7;	23-SEP-2010	18:21:49;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44784
13;	6046.8;	23-SEP-2010	18:23:56;	Dark	;	43.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	86;	0;	44785
14;	6184.6;	23-SEP-2010	18:26:14;	Dark	;	55.5;	108;	Alp	Col	;	2.65;	15200;	occ;	111;	0;	44785
15;	6865.4;	23-SEP-2010	18:37:35;	Dark	;	51.0;	157;	The1Eri		;	2.91;	9300;	occ;	102;	0;	44785
16;	7144.0;	23-SEP-2010	18:42:14;	Dark	;	16.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	32;	0;	44785

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1;	1108.0;	23-SEP-2010	18:42:14;	Dark	;	45.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	91;	0;	44785
2;	1542.9;	23-SEP-2010	18:49:28;	Dark	;	53.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	107;	0;	44785
3;	2167.5;	23-SEP-2010	18:59:53;	Bright;	;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	44785
4;	2391.7;	23-SEP-2010	19:03:37;	Bright;	;	38.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	76;	0;	44785
5;	2474.9;	23-SEP-2010	19:05:00;	Bright;	;	42.0;	58;	21Alp	And	;	2.07;	11000;	occ;	84;	0;	44785
6;	2984.0;	23-SEP-2010	19:13:30;	Bright;	;	41.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	83;	0;	44785
7;	3078.3;	23-SEP-2010	19:15:04;	Bright;	;	42.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	84;	0;	44785
8;	4496.8;	23-SEP-2010	19:38:42;	Bright;	;	48.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	97;	0;	44785
9;	5070.8;	23-SEP-2010	19:48:16;	Dark	;	71.0;	8;	10Alp	CMI	;	0.40;	6500;	occ;	142;	0;	44785
10;	5509.3;	23-SEP-2010	19:55:35;	Dark	;	41.5;	132;	15Rho	Pup	;	2.80;	6900;	occ;	83;	0;	44785
11;	5683.9;	23-SEP-2010	19:58:29;	Dark	;	61.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	122;	0;	44785
12;	5784.9;	23-SEP-2010	20:00:10;	Dark	;	49.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	98;	0;	44785
13;	5920.3;	23-SEP-2010	20:02:26;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44785
14;	6047.4;	23-SEP-2010	20:04:33;	Dark	;	51.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	102;	0;	44786
15;	6185.8;	23-SEP-2010	20:06:51;	Dark	;	55.5;	108;	Alp	Col	;	2.65;	15200;	occ;	111;	0;	44786
16;	6866.3;	23-SEP-2010	20:18:12;	Dark	;	51.0;	157;	The1Eri		;	2.91;	9300;	occ;	102;	0;	44786

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1;	1544.8;	24-SEP-2010	19:58:29;	Dark	;	53.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	106;	0;	44800
2;	2166.8;	24-SEP-2010	20:08:51;	Bright;	;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	44800
3;	2390.0;	24-SEP-2010	20:12:34;	Bright;	;	39.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	78;	0;	44800
4;	2978.5;	24-SEP-2010	20:22:23;	Bright;	;	41.0;	74;	11Bet	Cas	;	2.27;	6600;	occ;	82;	0;	44800
5;	3071.1;	24-SEP-2010	20:23:55;	Bright;	;	42.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	84;	0;	44800
6;	4498.7;	24-SEP-2010	20:47:43;	Bright;	;	51.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	102;	0;	44800

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1;	-953.9;	24-SEP-2010	20:57:26;	Dark	;	73.0;	8;	10Alp	CMI	;	0.40;	6500;	occ;	146;	0;	44800
2;	-516.9;	24-SEP-2010	21:04:43;	Dark	;	45.0;	132;	15Rho	Pup	;	2.80;	6900;	occ;	90;	0;	44800
3;	-321.7;	24-SEP-2010	21:07:59;	Dark	;	43.0;	88;	31Eta	CMA	;	2.45;	20000;	occ;	86;	0;	44800
4;	-235.2;	24-SEP-2010	21:09:25;	Dark	;	50.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	100;	0;	44800
5;	-105.9;	24-SEP-2010	21:11:34;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44800
6;	171.0;	24-SEP-2010	21:16:11;	Dark	;	56.5;	108;	Alp	Col	;	2.65;	15200;	occ;	113;	0;	44801
7;	842.9;	24-SEP-2010	21:27:23;	Dark	;	53.0;	157;	The1Eri		;	2.91;	9300;	occ;	106;	0;	44801
8;	1544.9;	24-SEP-2010	21:39:05;	Dark	;	55.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	110;	0;	44801
9;	2166.6;	24-SEP-2010	21:49:27;	Bright;	;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	44801



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10; 2389.9; 24-SEP-2010 21:53:10; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;44801
11; 2978.1; 24-SEP-2010 22:02:58; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44801
12; 3070.6; 24-SEP-2010 22:04:31; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;44801
13; 4498.8; 24-SEP-2010 22:28:19; Bright; 52.5; 24; 66Alp Gem ; 1.58; 10200;occ; 105; 0;44801
14; 5082.6; 24-SEP-2010 22:38:03; Dark ; 61.5; 8; 10Alp CMi ; 0.40; 6500;occ; 123; 0;44801
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100924_224835_000054622093_00158_44801_0926.N1
 1; -320.9; 24-SEP-2010 22:48:35; Dark ; 45.0; 88; 31Eta CMA ; 2.45; 20000;occ; 90; 0;44801
 2; -234.4; 24-SEP-2010 22:50:02; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;44801
 3; -105.2; 24-SEP-2010 22:52:11; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44801
 4; 172.6; 24-SEP-2010 22:56:49; Dark ; 53.0; 108; Alp Col ; 2.65; 15200;occ; 106; 0;44802
 5; 843.7; 24-SEP-2010 23:08:00; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;44802
 6; 1544.9; 24-SEP-2010 23:19:41; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44802
 7; 2210.3; 24-SEP-2010 23:30:46; Bright; 43.5; 140; 88Gam Peg ; 2.83; 26000;occ; 87; 0;44802
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8; 5536.3; 26-SEP-2010 14:59:58; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44825
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13; 6097.4; 28-SEP-2010 20:48:29; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;44858
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4; 62.8; 29-SEP-2010 00:09:42; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;44860
5; 146.9; 29-SEP-2010 00:11:06; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;44860
6; 257.3; 29-SEP-2010 00:12:57; Dark ; 46.0; 108; Alp Col ; 2.65; 15200;occ; 92; 0;44860
7; 890.8; 29-SEP-2010 00:23:30; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44860
8; 1553.0; 29-SEP-2010 00:34:32; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;44860
9; 2192.8; 29-SEP-2010 00:45:12; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44860
10; 2444.8; 29-SEP-2010 00:49:24; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;44860
11; 2683.8; 29-SEP-2010 00:53:23; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44860
12; 2959.9; 29-SEP-2010 00:57:59; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44860
13; 3044.8; 29-SEP-2010 00:59:24; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44860
14; 4507.5; 29-SEP-2010 01:23:47; Bright; 33.0; 24; 66Alp Gem ; 1.58; 10200;occ; 66; 0;44860
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 4; -64.5; 29-SEP-2010 01:48:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44860  
 5; 63.8; 29-SEP-2010 01:50:19; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44861  
 6; 147.6; 29-SEP-2010 01:51:43; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;44861  
 7; 258.7; 29-SEP-2010 01:53:34; Dark ; 46.0; 108; Alp Col ; 2.65; 15200;occ; 92; 0;44861  
 8; 891.8; 29-SEP-2010 02:04:07; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44861  
 9; 1553.1; 29-SEP-2010 02:15:08; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;44861  
 10; 2192.7; 29-SEP-2010 02:25:48; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44861  
 11; 2444.5; 29-SEP-2010 02:30:00; Bright; 42.0; 58; 21Alp And ; 2.07; 11000;occ; 84; 0;44861  
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 13; 2959.4; 29-SEP-2010 02:38:35; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;44861  
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 2; -902.4; 29-SEP-2010 03:14:49; Dark ; 53.0; 8; 10Alp CMI ; 0.40; 6500;occ; 106; 0;44861  
 3; -473.5; 29-SEP-2010 03:21:58; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;44861  
 4; -264.0; 29-SEP-2010 03:25:27; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;44861  
 5; -165.7; 29-SEP-2010 03:27:05; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;44861  
 6; -63.8; 29-SEP-2010 03:28:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44861  
 7; 64.5; 29-SEP-2010 03:30:56; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;44862  
 8; 148.3; 29-SEP-2010 03:32:19; Dark ; 55.5; 2; Alp Car ;-0.74; 7000;occ; 111; 0;44862  
 9; 260.2; 29-SEP-2010 03:34:11; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;44862  
 10; 892.4; 29-SEP-2010 03:44:44; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44862  
 11; 1553.2; 29-SEP-2010 03:55:44; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44862  
 12; 2192.4; 29-SEP-2010 04:06:24; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44862  
 13; 2444.4; 29-SEP-2010 04:10:36; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44862  
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 3; -901.4; 29-SEP-2010 04:55:26; Dark ; 44.0; 8; 10Alp CMI ; 0.40; 6500;occ; 88; 0;44862  
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 5; -262.9; 29-SEP-2010 05:06:04; Dark ; 46.5; 88; 31Eta CMA ; 2.45; 20000;occ; 93; 0;44862  
 6; -164.5; 29-SEP-2010 05:07:43; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;44862  
 7; -63.1; 29-SEP-2010 05:09:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44862  
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 9; 149.0; 29-SEP-2010 05:12:56; Dark ; 55.5; 2; Alp Car ;-0.74; 7000;occ; 111; 0;44863  
 10; 261.8; 29-SEP-2010 05:14:49; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;44863  
 11; 893.2; 29-SEP-2010 05:25:20; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;44863  
 12; 1553.4; 29-SEP-2010 05:36:20; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44863  
 13; 2192.0; 29-SEP-2010 05:46:59; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44863  
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 15; 2681.7; 29-SEP-2010 05:55:09; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44863  
 16; 2959.0; 29-SEP-2010 05:59:46; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44863  
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 3; 2441.2; 29-SEP-2010 20:56:32; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44872  
 4; 2674.7; 29-SEP-2010 21:00:25; Bright; 50.5; 53; 43Bet And ; 2.05; 3300;occ; 101; 0;44872  
 5; 2956.5; 29-SEP-2010 21:05:07; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44872  
 6; 3039.7; 29-SEP-2010 21:06:30; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44872  
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 4; -472.0; 29-SEP-2010 06:43:11; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44863  
 5; -261.9; 29-SEP-2010 06:46:41; Dark ; 52.0; 88; 31Eta CMA ; 2.45; 20000;occ; 104; 0;44863  
 6; -163.4; 29-SEP-2010 06:48:20; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;44863  
 7; -62.3; 29-SEP-2010 06:50:01; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44863  
 8; 65.8; 29-SEP-2010 06:52:09; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;44864  
 9; 149.7; 29-SEP-2010 06:53:33; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44864

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11; 893.8; 29-SEP-2010 07:05:57; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44864
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3; 2681.0; 29-SEP-2010 07:35:44; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44864
4; 2958.7; 29-SEP-2010 07:40:22; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44864
5; 3043.1; 29-SEP-2010 07:41:46; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44864
6; 4594.0; 29-SEP-2010 08:07:37; Bright; 56.0; 17; 78Bet Gem ; 1.16; 4500;occ; 112; 0;44864
7; 5136.4; 29-SEP-2010 08:16:40; Dark ; 36.0; 8; 10Alp CMi ; 0.40; 6500;occ; 72; 0;44864
8; 5564.6; 29-SEP-2010 08:23:48; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44864
9; 5775.1; 29-SEP-2010 08:27:18; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44864
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14; 6300.5; 29-SEP-2010 08:36:04; Dark ; 41.0; 108; Alp Col ; 2.65; 15200;occ; 82; 0;44865
15; 6930.8; 29-SEP-2010 08:46:34; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44865
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3; 2680.0; 29-SEP-2010 09:16:19; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44865
4; 2958.6; 29-SEP-2010 09:20:58; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44865
5; 3042.6; 29-SEP-2010 09:22:22; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44865
6; 4594.3; 29-SEP-2010 09:48:13; Bright; 57.0; 17; 78Bet Gem ; 1.16; 4500;occ; 114; 0;44865
7; 5137.3; 29-SEP-2010 09:57:16; Dark ; 36.0; 8; 10Alp CMi ; 0.40; 6500;occ; 72; 0;44865
8; 5565.3; 29-SEP-2010 10:04:24; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44865
9; 5776.1; 29-SEP-2010 10:07:55; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;44865
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3; 2679.4; 29-SEP-2010 10:56:54; Bright; 52.0; 53; 43Bet And ; 2.05; 3300;occ; 104; 0;44866
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6; 4594.5; 29-SEP-2010 11:28:49; Bright; 74.0; 17; 78Bet Gem ; 1.16; 4500;occ; 148; 0;44866
7; 5138.3; 29-SEP-2010 11:37:53; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;44866
8; 5566.0; 29-SEP-2010 11:45:01; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44866
9; 5777.1; 29-SEP-2010 11:48:32; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44866
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11; 5975.7; 29-SEP-2010 11:51:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44866
12; 6103.8; 29-SEP-2010 11:53:59; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;44867
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7; 4594.7; 29-SEP-2010 13:09:25; Bright; 58.5; 17; 78Bet Gem ; 1.16; 4500;occ; 117; 0;44867
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14; 4600.1; 01-OCT-2010 00:22:05; Bright; 77.0; 17; 78Bet Gem ; 1.16; 4500;occ; 154; 0;44888
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2; 287.2; 30-SEP-2010 09:45:25; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44880
3; 906.2; 30-SEP-2010 09:55:44; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44880
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7; 4598.3; 30-SEP-2010 12:37:52; Bright; 59.0; 17; 78Bet Gem ; 1.16; 4500;occ; 118; 0;44881
8; 5152.8; 30-SEP-2010 12:47:06; Dark ; 68.5; 8; 10Alp CMi ; 0.40; 6500;occ; 137; 0;44881
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4; 2667.4; 30-SEP-2010 13:46:17; Bright; 50.0; 53; 43Bet And ; 2.05; 3300;occ; 100; 0;44882
5; 2953.9; 30-SEP-2010 13:51:03; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44882
6; 3035.6; 30-SEP-2010 13:52:25; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44882
7; 4511.0; 30-SEP-2010 14:17:00; Bright; 55.5; 24; 66Alp Gem ; 1.58; 10200;occ; 111; 0;44882
8; 4598.6; 30-SEP-2010 14:18:28; Bright; 69.5; 17; 78Bet Gem ; 1.16; 4500;occ; 139; 0;44882
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12; 5987.4; 30-SEP-2010 14:41:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44882
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14; 6327.7; 30-SEP-2010 14:47:17; Dark ; 59.5; 108; Alp Col ; 2.65; 15200;occ; 119; 0;44883
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7; 4511.2; 30-SEP-2010 15:57:37; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;44883
8; 4598.8; 30-SEP-2010 15:59:04; Bright; 65.5; 17; 78Bet Gem ; 1.16; 4500;occ; 131; 0;44883
9; 5154.9; 30-SEP-2010 16:08:20; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;44883
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3; 2437.4; 30-SEP-2010 17:03:39; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;44884
4; 2666.0; 30-SEP-2010 17:07:27; Bright; 51.5; 53; 43Bet And ; 2.05; 3300;occ; 103; 0;44884
5; 2953.3; 30-SEP-2010 17:12:15; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44884
6; 3034.9; 30-SEP-2010 17:13:36; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44884
7; 4511.5; 30-SEP-2010 17:38:13; Bright; 53.0; 24; 66Alp Gem ; 1.58; 10200;occ; 106; 0;44884
8; 4599.2; 30-SEP-2010 17:39:41; Bright; 57.5; 17; 78Bet Gem ; 1.16; 4500;occ; 115; 0;44884
9; 5156.1; 30-SEP-2010 17:48:57; Dark ; 54.0; 8; 10Alp CMi ; 0.40; 6500;occ; 108; 0;44884
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8;	4599.5;	30-SEP-2010	19:20:17;	Bright;	62.5;	17;	78Bet Gem	;	1.16;	4500;occ;	125;	0;44885	
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