

GOMOS Daily Report 20-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 04:51:56
Data source version	GOMOS/5.01
Start time of products	20SEP2010 00:03:56
Stop time of products	20SEP2010 23:59:46
Store outputs in DB	Yes
Nb of level 1b prods	81
Nb of prods with errors	0

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

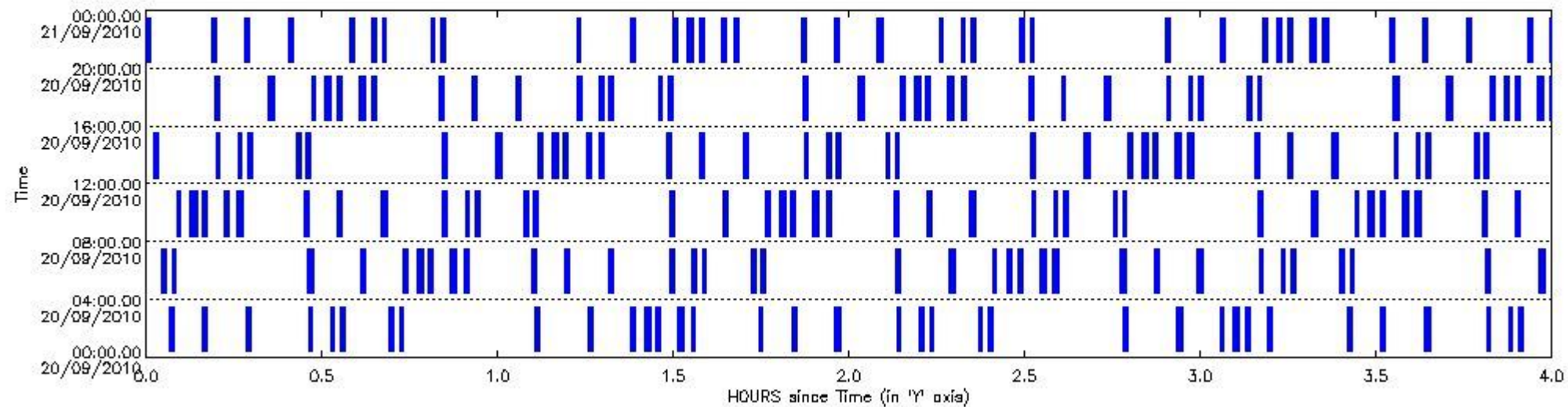
2.1 Level 0 products arrived in PCF (see template [here](#))

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.

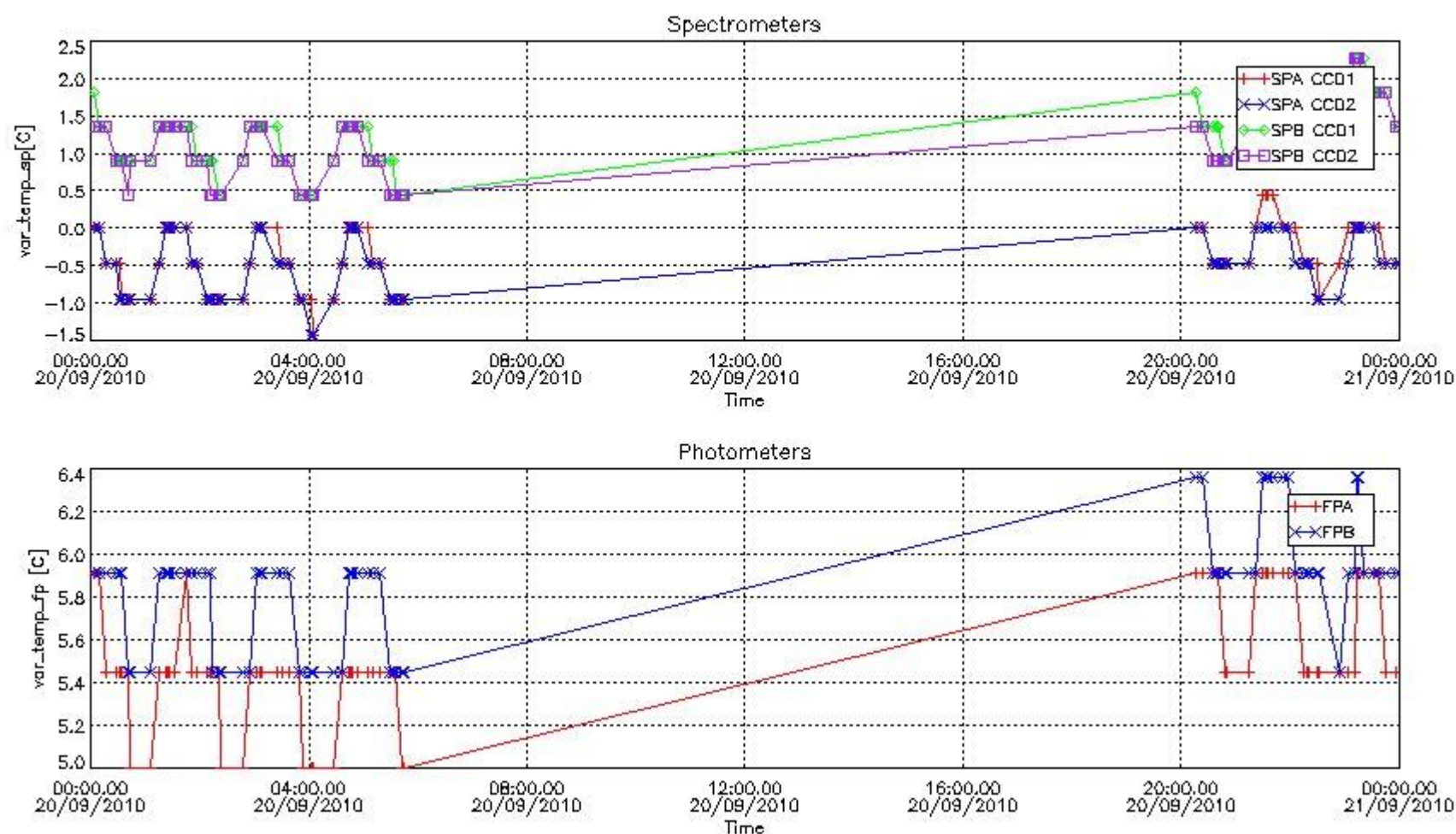
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100920_000356_000000442093_00088_44731_4860.N1	20-SEP-2010 00:03:56	Dark	44.000	9	Alp Eri	0.45300	24000.	88	44731	No
2	GOM_TRA_1PNPDE20100920_000935_000000482093_00088_44731_4861.N1	20-SEP-2010 00:09:35	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	44731	No
3	GOM_TRA_1PNPDE20100920_001701_000000552093_00088_44731_4862.N1	20-SEP-2010 00:17:01	Twilight_and_stray	55.000	52	16Bet Cet	2.0370	4500.0	110	44731	No
4	GOM_TRA_1PNPDE20100920_002738_000000392093_00088_44731_4863.N1	20-SEP-2010 00:27:38	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	44731	No
5	GOM_TRA_1PNPDE20100920_003126_000000392093_00088_44731_4864.N1	20-SEP-2010 00:31:26	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	44731	No
6	GOM_TRA_1PNPDE20100920_003309_000000452093_00088_44731_4865.N1	20-SEP-2010 00:33:09	Bright	44.500	58	21Alp And	2.0730	11000.	89	44731	No
7	GOM_TRA_1PNPDE20100920_004130_000000422093_00088_44731_4866.N1	20-SEP-2010 00:41:30	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	44731	No
8	GOM_TRA_1PNPDE20100920_004311_000000422093_00088_44731_4867.N1	20-SEP-2010 00:43:11	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	44731	No
9	GOM_TRA_1PNPDE20100920_010615_000000472093_00088_44731_4868.N1	20-SEP-2010 01:06:15	Bright	47.000	24	66Alp Gem	1.5800	10200.	94	44731	No
10	GOM_TRA_1PNPDE20100920_011520_000000602093_00088_44731_4869.N1	20-SEP-2010 01:15:20	Dark	60.000	8	10Alp CMi	0.40000	6500.0	120	44731	No
11	GOM_TRA_1PNPDE20100920_012243_000000462093_00088_44731_4843.N1	20-SEP-2010 01:22:43	Dark	46.000	132	15Rho Pup	2.8030	6900.0	92	44731	No
12	GOM_TRA_1PNPDE20100920_012459_000000702093_00088_44731_4844.N1	20-SEP-2010 01:24:59	Dark	69.500	1	9Alp CMa	-1.4400	11000.	139	44731	No

13	GOM_TRA_1PNPDE20100920_012657_00000522093_00088_44731_4845.N1	20-SEP-2010 01:26:57	Dark	52.000	23	21Eps CMa	1.5020	26000.	104	44731	No
14	GOM_TRA_1PNPDE20100920_013300_00000472093_00089_44732_4846.N1	20-SEP-2010 01:33:00	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	44732	No
15	GOM_TRA_1PNPDE20100920_014432_00000442093_00089_44732_4847.N1	20-SEP-2010 01:44:32	Dark	44.000	9	Alp Eri	0.45300	24000.	88	44732	No
16	GOM_TRA_1PNPDE20100920_015011_00000452093_00089_44732_4848.N1	20-SEP-2010 01:50:11	Straylight	45.000	84	Alp Phe	2.3970	4500.0	90	44732	No
17	GOM_TRA_1PNPDE20100920_015737_00000572093_00089_44732_4849.N1	20-SEP-2010 01:57:37	Twilight	57.000	52	16Bet Cet	2.0370	4500.0	114	44732	No
18	GOM_TRA_1PNPDE20100920_020814_00000392093_00089_44732_4850.N1	20-SEP-2010 02:08:14	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	44732	No
19	GOM_TRA_1PNPDE20100920_021201_00000392093_00089_44732_4851.N1	20-SEP-2010 02:12:01	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	44732	No
20	GOM_TRA_1PNPDE20100920_021344_00000462093_00089_44732_4852.N1	20-SEP-2010 02:13:44	Bright	45.500	58	21Alp And	2.0730	11000.	91	44732	No
21	GOM_TRA_1PNPDE20100920_022206_00000422093_00089_44732_4853.N1	20-SEP-2010 02:22:06	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	44732	No
22	GOM_TRA_1PNPDE20100920_022347_00000432093_00089_44732_4854.N1	20-SEP-2010 02:23:47	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	44732	No
23	GOM_TRA_1PNPDE20100920_024651_00000482093_00089_44732_4833.N1	20-SEP-2010 02:46:51	Bright	48.000	24	66Alp Gem	1.5800	10200.	96	44732	No
24	GOM_TRA_1PNPDE20100920_025557_00000672093_00089_44732_4834.N1	20-SEP-2010 02:55:57	Dark	67.000	8	10Alp CMi	0.40000	6500.0	134	44732	No
25	GOM_TRA_1PNPDE20100920_030320_00000432093_00089_44732_4835.N1	20-SEP-2010 03:03:20	Dark	43.000	132	15Rho Pup	2.8030	6900.0	86	44732	No
26	GOM_TRA_1PNPDE20100920_030536_00000642093_00089_44732_4836.N1	20-SEP-2010 03:05:36	Dark	63.500	1	9Alp CMa	-1.4400	11000.	127	44732	No
27	GOM_TRA_1PNPDE20100920_030734_00000472093_00089_44732_4837.N1	20-SEP-2010 03:07:34	Dark	47.000	23	21Eps CMa	1.5020	26000.	94	44732	No
28	GOM_TRA_1PNPDE20100920_032509_00000472093_00090_44733_4838.N1	20-SEP-2010 03:25:09	Dark	46.500	9	Alp Eri	0.45300	24000.	93	44733	No
29	GOM_TRA_1PNPDE20100920_033047_00000482093_00090_44733_4839.N1	20-SEP-2010 03:30:47	Straylight	48.000	84	Alp Phe	2.3970	4500.0	96	44733	No
30	GOM_TRA_1PNPDE20100920_033813_00000572093_00090_44733_4840.N1	20-SEP-2010 03:38:13	Twilight	56.500	52	16Bet Cet	2.0370	4500.0	113	44733	No
31	GOM_TRA_1PNPDE20100920_034850_00000392093_00090_44733_4841.N1	20-SEP-2010 03:48:50	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	44733	No
32	GOM_TRA_1PNPDE20100920_035237_00000372093_00090_44733_4842.N1	20-SEP-2010 03:52:37	Bright	37.000	93	53Bet Peg	2.5200	3100.0	74	44733	No
33	GOM_TRA_1PNPDE20100920_035419_00000472093_00090_44733_4843.N1	20-SEP-2010 03:54:19	Bright	46.500	58	21Alp And	2.0730	11000.	93	44733	No
34	GOM_TRA_1PNPDE20100920_040241_00000392093_00090_44733_4844.N1	20-SEP-2010 04:02:41	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	44733	No
35	GOM_TRA_1PNPDE20100920_040422_00000422093_00090_44733_4845.N1	20-SEP-2010 04:04:22	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	44733	No
36	GOM_TRA_1PNPDE20100920_042727_00000632093_00090_44733_4770.N1	20-SEP-2010 04:27:27	Bright	63.000	24	66Alp Gem	1.5800	10200.	126	44733	No
37	GOM_TRA_1PNPDE20100920_043633_00000552093_00090_44733_4771.N1	20-SEP-2010 04:36:33	Dark	54.500	8	10Alp CMi	0.40000	6500.0	109	44733	No
38	GOM_TRA_1PNPDE20100920_044356_00000422093_00090_44733_4772.N1	20-SEP-2010 04:43:56	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	44733	No
39	GOM_TRA_1PNPDE20100920_044613_00000632093_00090_44733_4773.N1	20-SEP-2010 04:46:13	Dark	63.000	1	9Alp CMa	-1.4400	11000.	126	44733	No
40	GOM_TRA_1PNPDE20100920_044811_00000462093_00090_44733_4774.N1	20-SEP-2010 04:48:11	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	44733	No
41	GOM_TRA_1PNPDE20100920_045413_00000552093_00091_44734_4775.N1	20-SEP-2010 04:54:13	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	44734	No
42	GOM_TRA_1PNPDE20100920_050545_00000452093_00091_44734_4776.N1	20-SEP-2010 05:05:45	Dark	44.500	9	Alp Eri	0.45300	24000.	89	44734	No
43	GOM_TRA_1PNPDE20100920_051124_00000482093_00091_44734_4777.N1	20-SEP-2010 05:11:24	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	44734	No
44	GOM_TRA_1PNPDE20100920_051849_00000562093_00091_44734_4778.N1	20-SEP-2010 05:18:49	Twilight	56.000	52	16Bet Cet	2.0370	4500.0	112	44734	No
45	GOM_TRA_1PNPDE20100920_052925_00000392093_00091_44734_4779.N1	20-SEP-2010 05:29:25	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	44734	No
46	GOM_TRA_1PNPDE20100920_053313_00000412093_00091_44734_4780.N1	20-SEP-2010 05:33:13	Bright	41.000	93	53Bet Peg	2.5200	3100.0	82	44734	No
47	GOM_TRA_1PNPDE20100920_053455_00000452093_00091_44734_4781.N1	20-SEP-2010 05:34:55	Bright	45.000	58	21Alp And	2.0730	11000.	90	44734	No
48	GOM_TRA_1PNPDE20100920_054317_00000422093_00091_44734_4782.N1	20-SEP-2010 05:43:17	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	44734	No
49	GOM_TRA_1PNPDE20100920_054458_00000412093_00091_44734_4783.N1	20-SEP-2010 05:44:58	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	44734	No
50	GOM_TRA_1PNPDE20100920_201650_00000482093_00100_44743_4978.N1	20-SEP-2010 20:16:50	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	44743	No
51	GOM_TRA_1PNPDE20100920_202414_00000572093_00100_44743_4979.N1	20-SEP-2010 20:24:14	Twilight	56.500	52	16Bet Cet	2.0370	4500.0	113	44743	No
52	GOM_TRA_1PNPDE20100920_203448_00000392093_00100_44743_4980.N1	20-SEP-2010 20:34:48	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	44743	No
53	GOM_TRA_1PNPDE20100920_203835_00000382093_00100_44743_4981.N1	20-SEP-2010 20:38:35	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	44743	No
54	GOM_TRA_1PNPDE20100920_204013_00000442093_00100_44743_4982.N1	20-SEP-2010 20:40:13	Bright	44.000	58	21Alp And	2.0730	11000.	88	44743	No
55	GOM_TRA_1PNPDE20100920_204837_00000412093_00100_44743_4983.N1	20-SEP-2010 20:48:37	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	44743	No
56	GOM_TRA_1PNPDE20100920_205016_00000432093_00100_44743_4984.N1	20-SEP-2010 20:50:16	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	44743	No
57	GOM_TRA_1PNPDE20100920_211328_00000462093_00100_44743_4985.N1	20-SEP-2010 21:13:28	Bright	45.500	24	66Alp Gem	1.5800	10200.	91	44743	No
58	GOM_TRA_1PNPDE20100920_212239_00000562093_00100_44743_4986.N1	20-SEP-2010 21:22:39	Dark	56.000	8	10Alp CMi	0.40000	6500.0	112	44743	No
59	GOM_TRA_1PNPDE20100920_213001_00000442093_00100_44743_5038.N1	20-SEP-2010 21:30:01	Dark	43.500	132	15Rho Pup	2.8030	6900.0	87	44743	No
60	GOM_TRA_1PNPDE20100920_213225_00000572093_00100_44743_5039.N1	20-SEP-2010 21:32:25	Dark	57.000	1	9Alp CMa	-1.4400	11000.	114	44743	No
61	GOM_TRA_1PNPDE20100920_213420_00000512093_00100_44743_5040.N1	20-SEP-2010 21:34:20	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	44743	No
62	GOM_TRA_1PNPDE20100920_214019_00000442093_00101_44744_5041.N1	20-SEP-2010 21:40:19	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	44744	No
63	GOM_TRA_1PNPDE20100920_215149_00000552093_00101_44744_5042.N1	20-SEP-2010 21:51:49	Dark	54.500	9	Alp Eri	0.45300	24000.	109	44744	No
64	GOM_TRA_1PNPDE20100920_215727_00000462093_00101_44744_5043.N1	20-SEP-2010 21:57:27	Straylight	45.500	84	Alp Phe	2.3970	4500.0	91	44744	No
65	GOM_TRA_1PNPDE20100920_220450_00000562093_00101_44744_5044.N1	20-SEP-2010 22:04:50	Twilight	56.000	52	16Bet Cet	2.0370	4500.0	112	44744	No
66	GOM_TRA_1PNPDE20100920_221523_00000382093_00101_44744_5045.N1	20-SEP-2010 22:15:23	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	44744	No
67	GOM_TRA_1PNPDE20100920_221911_00000382093_00101_44744_5046.N1	20-SEP-2010 22:19:11	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	44744	No
68	GOM_TRA_1PNPDE20100920_222048_00000452093_00101_44744_5047.N1	20-SEP-2010 22:20:48	Bright	45.000	58	21Alp And	2.0730	11000.	90	44744	No
69	GOM_TRA_1PNPDE20100920_222912_00000422093_00101_44744_5048.N1	20-SEP-2010 22:29:12	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	44744	No
70	GOM_TRA_1PNPDE20100920_223052_00000442093_00101_44744_5049.N1	20-SEP-2010 22:30:52	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	44744	No
71	GOM_TRA_1PNPDE20100920_225404_00000472093_00101_44744_5050.N1	20-SEP-2010 22:54:04	Bright	47.000	24	66Alp Gem	1.5800	10200.	94	44744	No

72	GOM_TRA_1PNPDE20100920_230315_000000652093_00101_44744_5051.N1	20-SEP-2010 23:03:15	Dark	64.500	8	10Alp CMI	0.40000	6500.0	129	44744	No
73	GOM_TRA_1PNPDE20100920_231037_000000422093_00101_44744_5076.N1	20-SEP-2010 23:10:37	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	44744	No
74	GOM_TRA_1PNPDE20100920_231302_000000502093_00101_44744_5077.N1	20-SEP-2010 23:13:02	Dark	50.000	1	9Alp CMa	-1.4400	11000.	100	44744	No
75	GOM_TRA_1PNPDE20100920_231457_000000472093_00101_44744_5078.N1	20-SEP-2010 23:14:57	Dark	47.000	23	21Eps CMa	1.5020	26000.	94	44744	No
76	GOM_TRA_1PNPDE20100920_232055_000000572093_00102_44745_5079.N1	20-SEP-2010 23:20:55	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	44745	No
77	GOM_TRA_1PNPDE20100920_233225_000000492093_00102_44745_5080.N1	20-SEP-2010 23:32:25	Dark	48.500	9	Alp Eri	0.45300	24000.	97	44745	No
78	GOM_TRA_1PNPDE20100920_233803_000000482093_00102_44745_5081.N1	20-SEP-2010 23:38:03	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	44745	No
79	GOM_TRA_1PNPDE20100920_234526_000000552093_00102_44745_5082.N1	20-SEP-2010 23:45:26	Twilight_stray	55.000	52	16Bet Cet	2.0370	4500.0	110	44745	No
80	GOM_TRA_1PNPDE20100920_235559_000000392093_00102_44745_5083.N1	20-SEP-2010 23:55:59	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	44745	No
81	GOM_TRA_1PNPDE20100920_235946_000000412093_00102_44745_5084.N1	20-SEP-2010 23:59:46	Bright	41.000	93	53Bet Peg	2.5200	3100.0	82	44745	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).

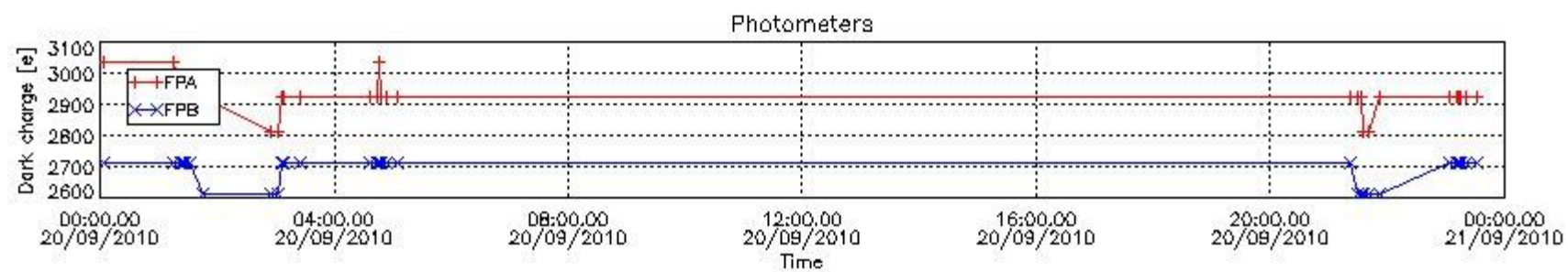
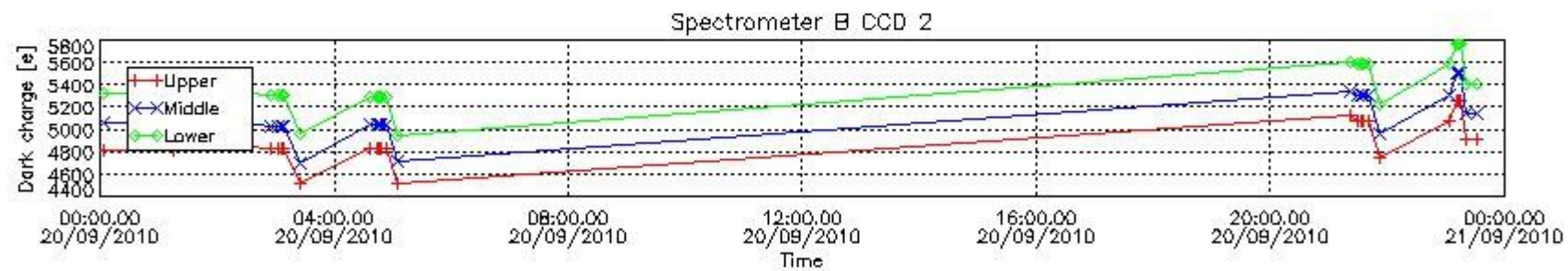
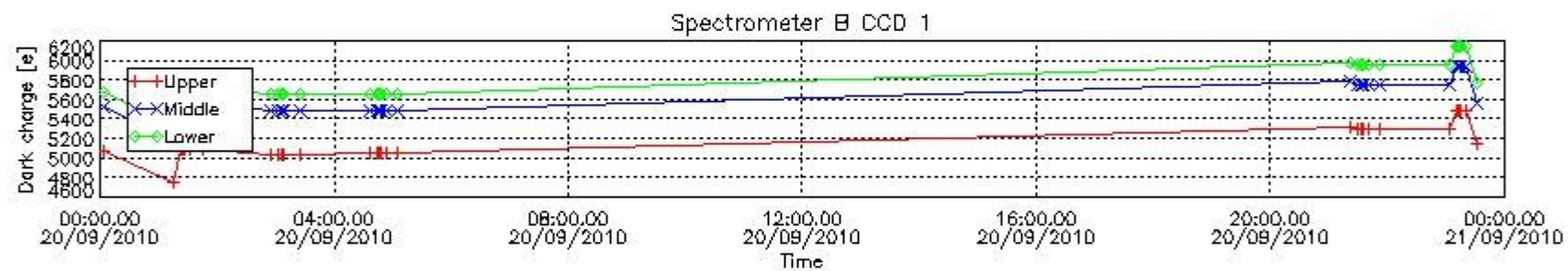
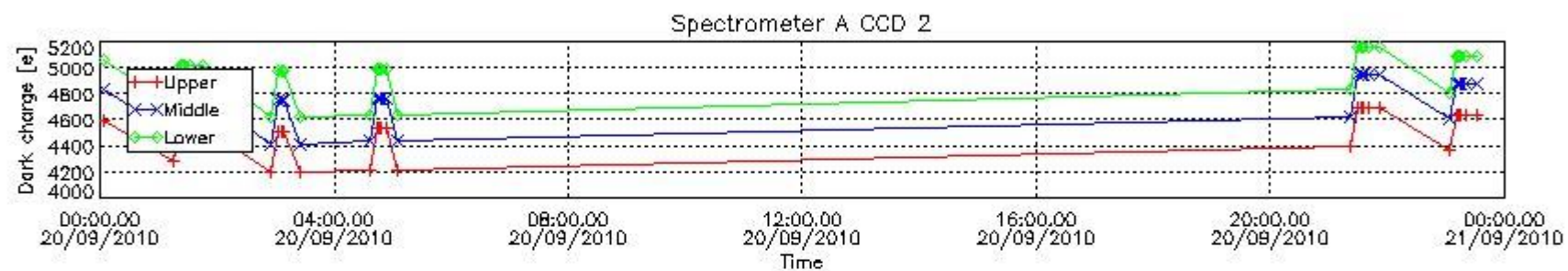
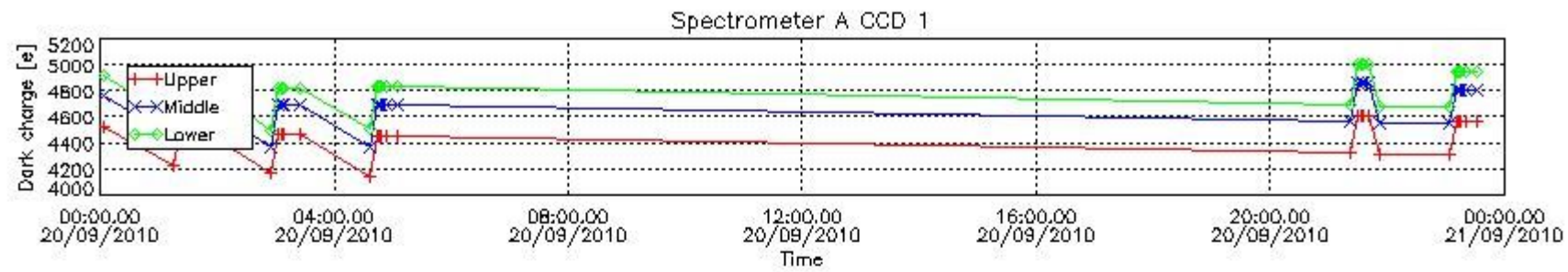
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
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GOM_TRA_1PNPDE20100920_201650_000000482093_00100_44743_4978.N1	DC map used
GOM_TRA_1PNPDE20100920_202414_000000572093_00100_44743_4979.N1	DC map used
GOM_TRA_1PNPDE20100920_203448_000000392093_00100_44743_4980.N1	DC map used
GOM_TRA_1PNPDE20100920_203835_000000382093_00100_44743_4981.N1	DC map used
GOM_TRA_1PNPDE20100920_204013_000000442093_00100_44743_4982.N1	DC map used
GOM_TRA_1PNPDE20100920_204837_000000412093_00100_44743_4983.N1	DC map used
GOM_TRA_1PNPDE20100920_205016_000000432093_00100_44743_4984.N1	DC map used
GOM_TRA_1PNPDE20100920_211328_000000462093_00100_44743_4985.N1	DC map used
GOM_TRA_1PNPDE20100920_212239_000000562093_00100_44743_4986.N1	DC map used

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



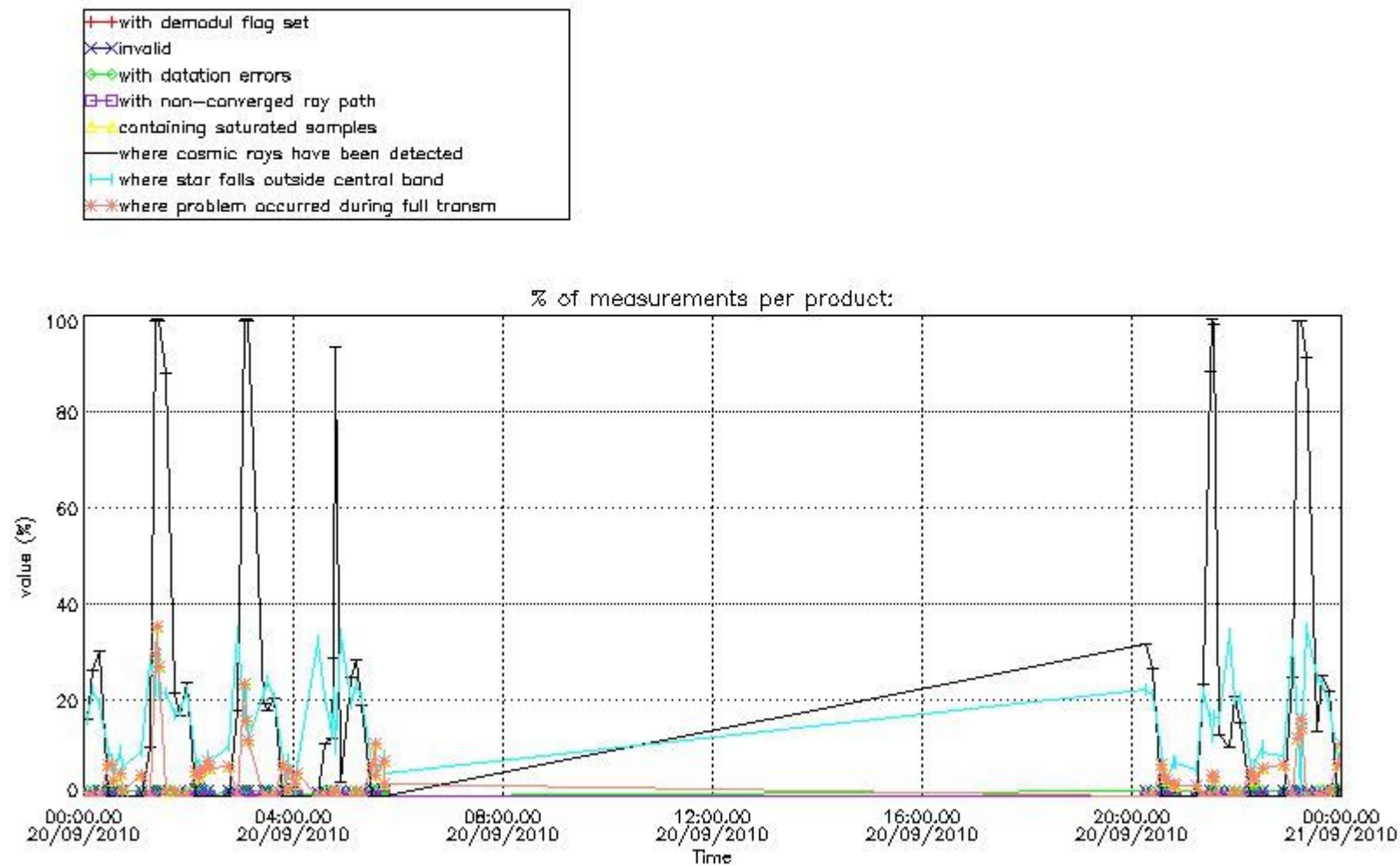
5. Demodulation flag and quality information monitoring

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.

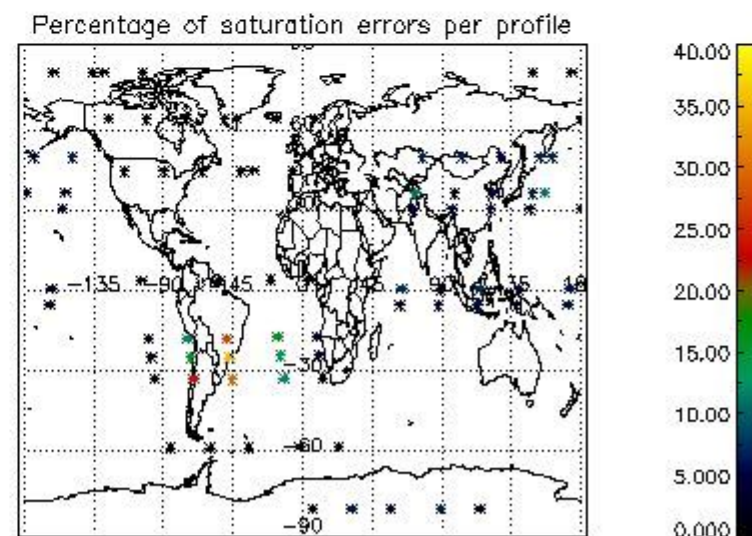
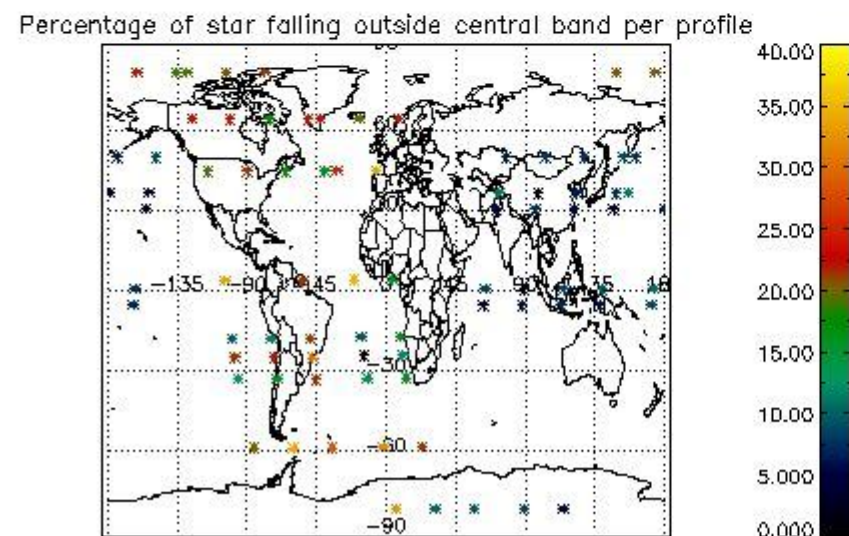
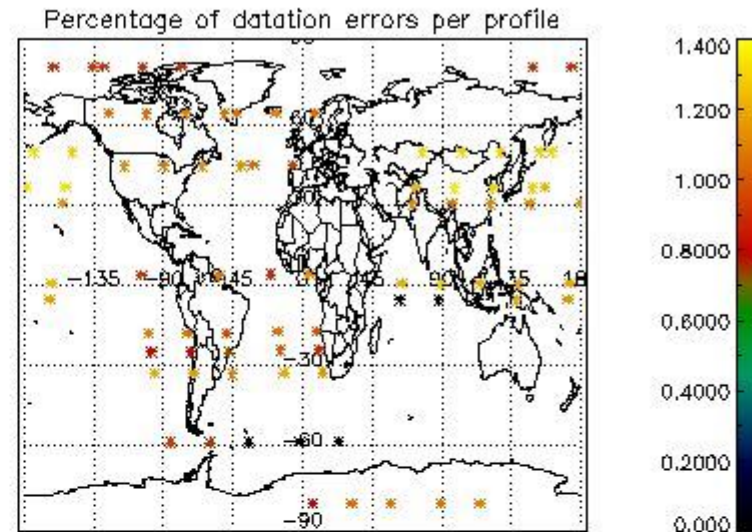
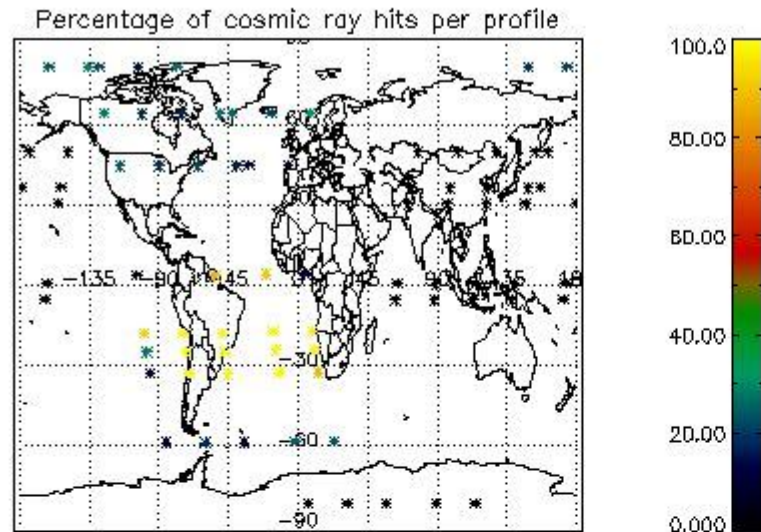
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	49.3827 %
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)



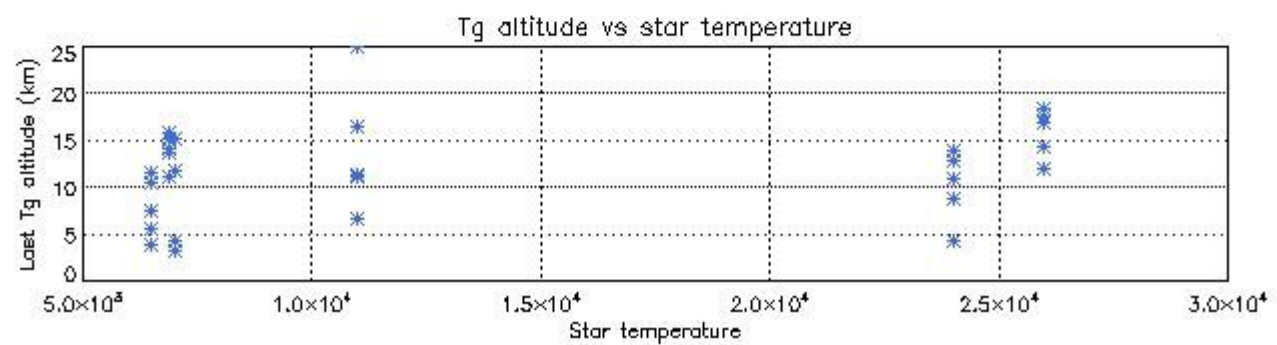
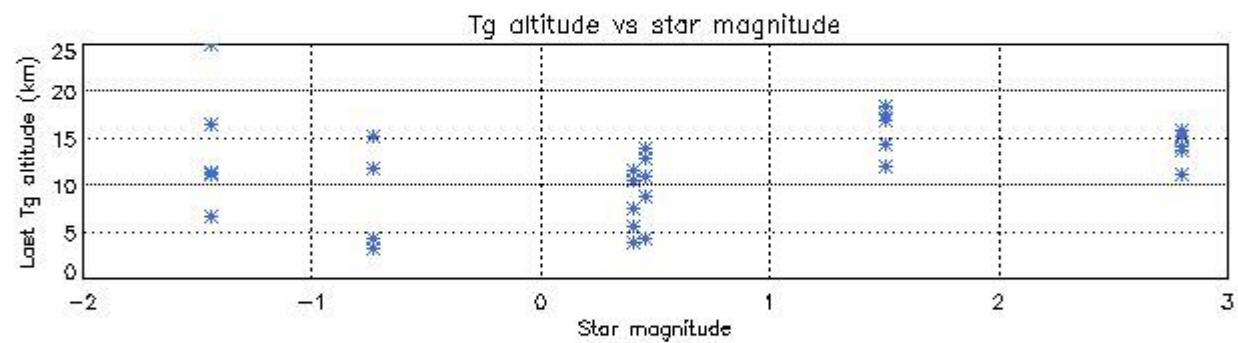
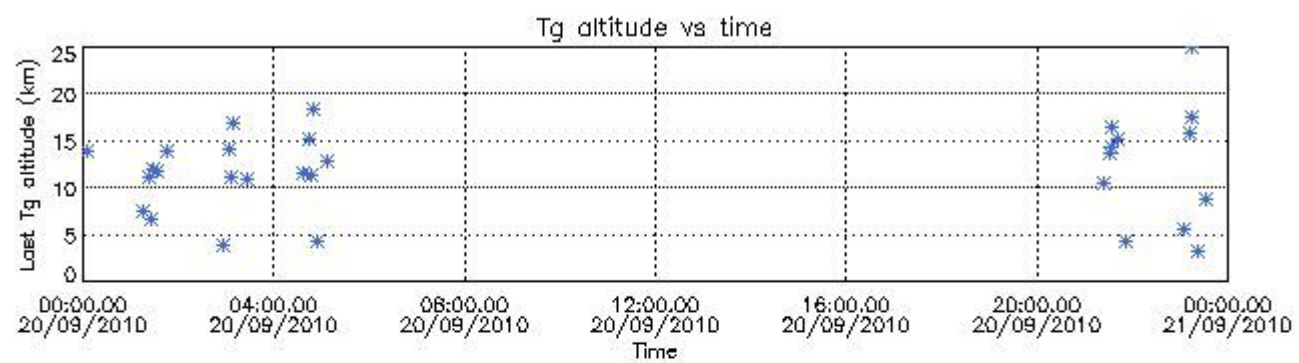
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.906	19.770	NaN
St. deviation:	4.9521	3.0297	NaN
Maximum:	24.999	24.503	NaN
Minimum:	3.1341	6.0014	NaN
Number of data:	30.000	37.000	NaN

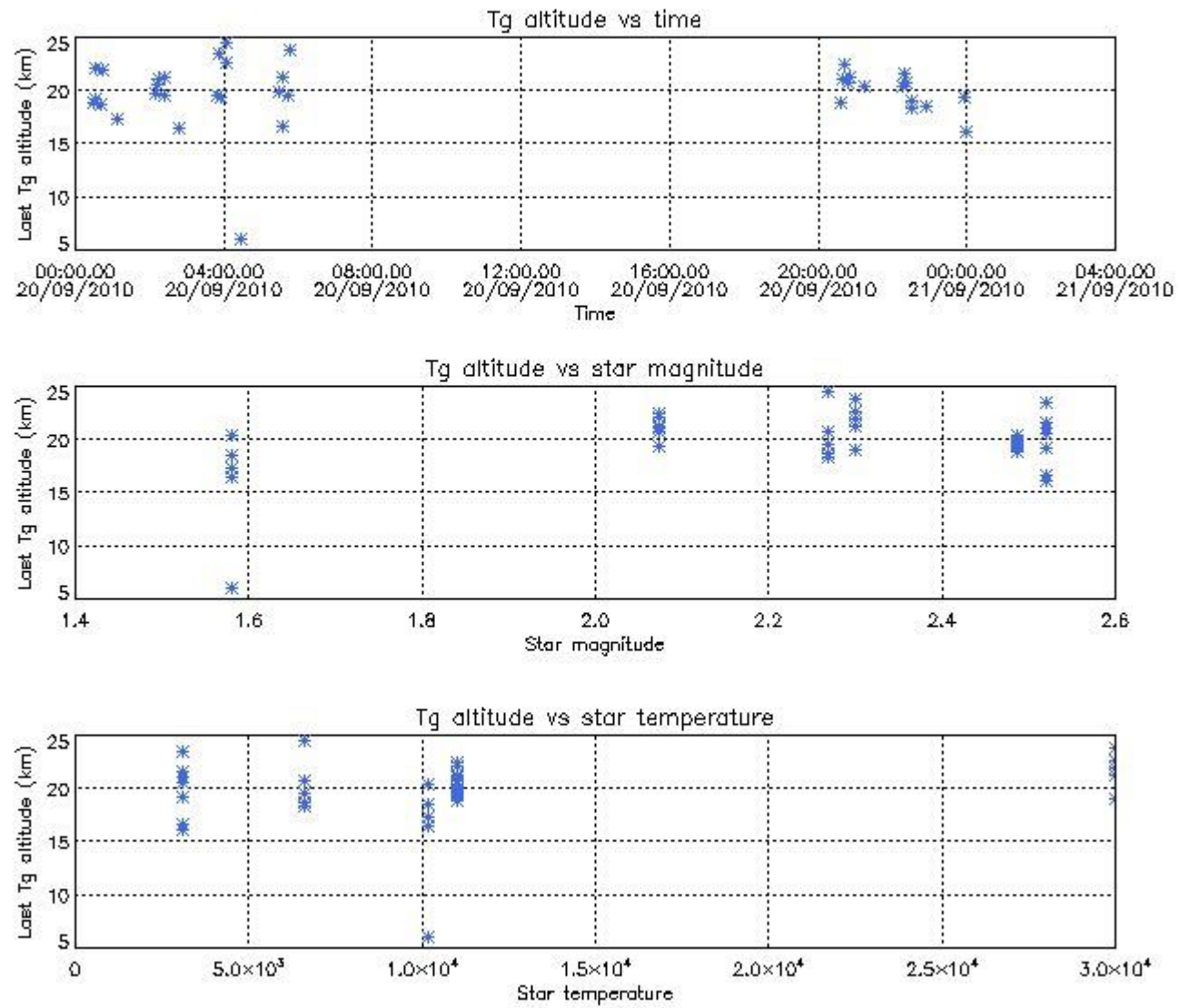
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

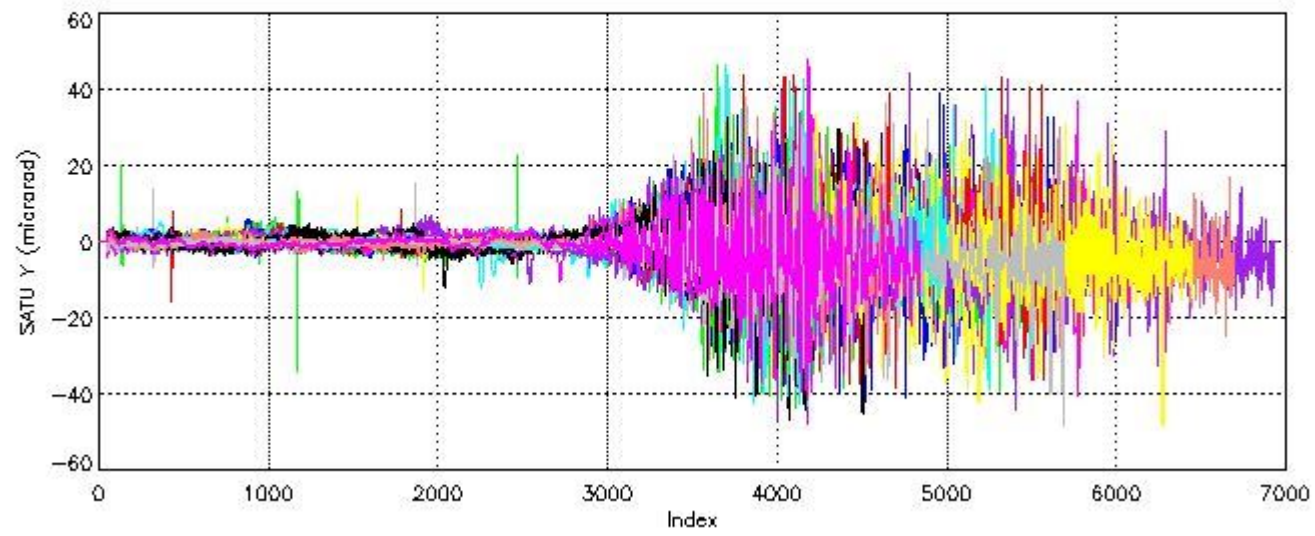
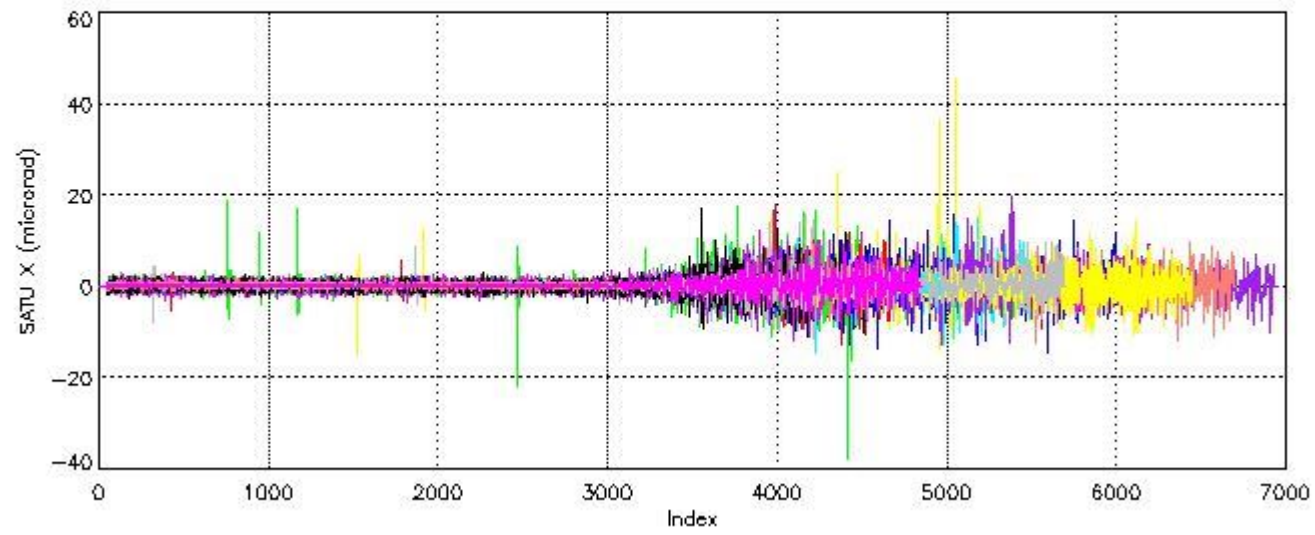


7. Star Acquisition and Tracking Unit (SATU)

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:	0.15741	-0.012377	0.18048	0.27172
St. deviation:	0.34827	0.89105	0.70524	1.4580
Maximum:	18.800	20.000	4.7000	22.800
Minimum:	-8.2000	-15.600	-4.3000	-5.4000

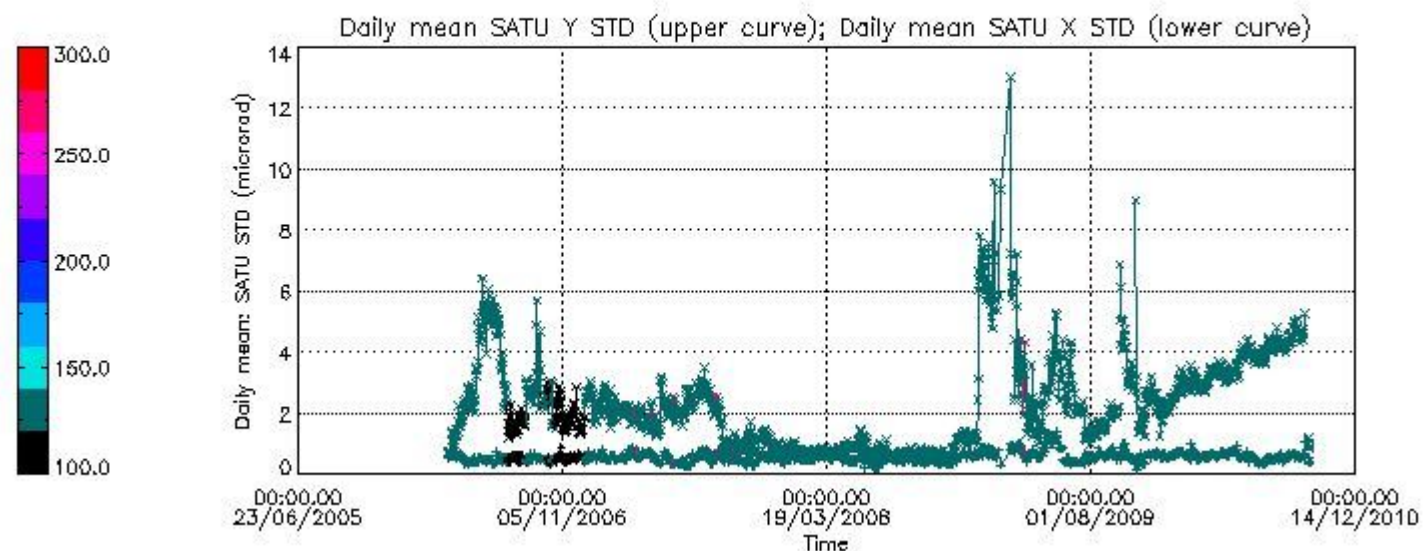
Number of data:	30700.	30700.	36500.	36500.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

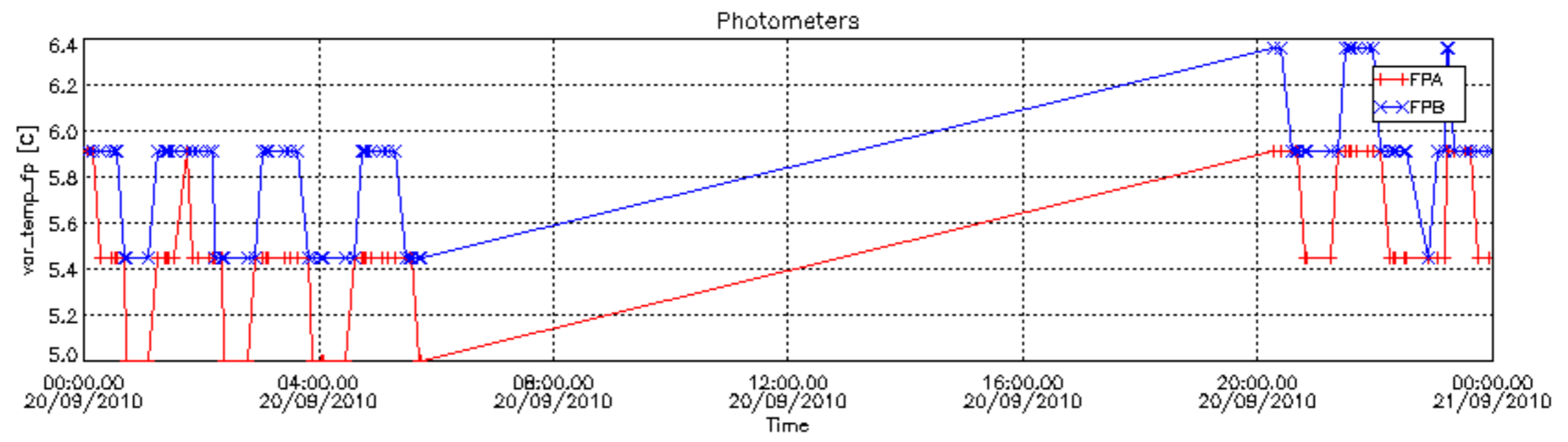
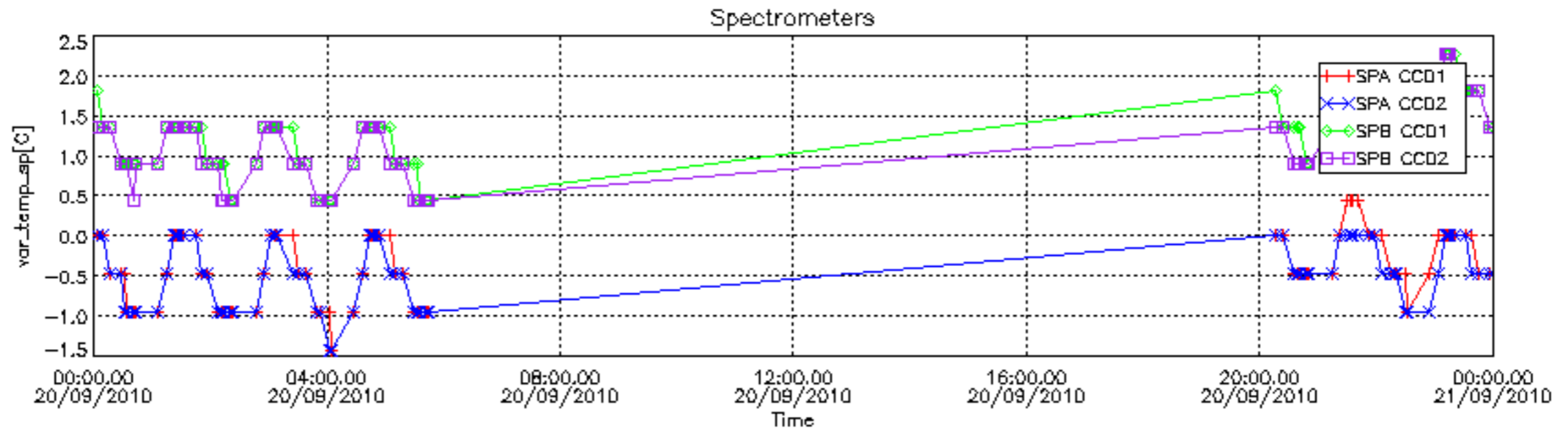
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

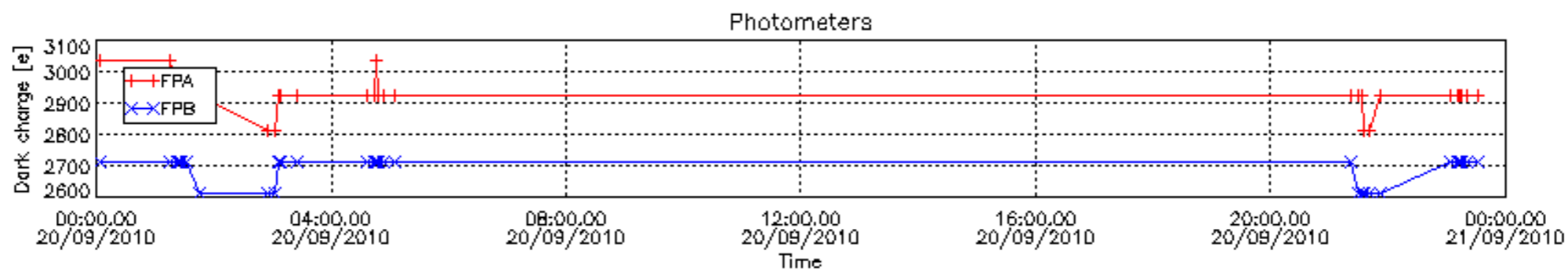
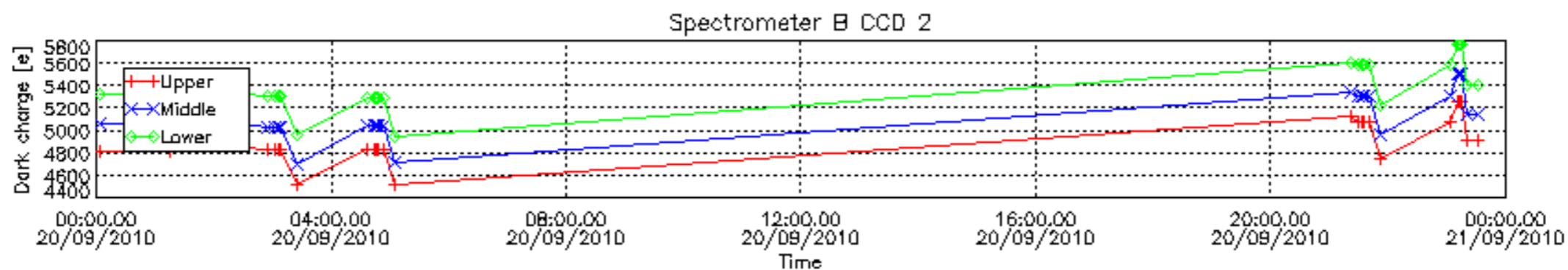
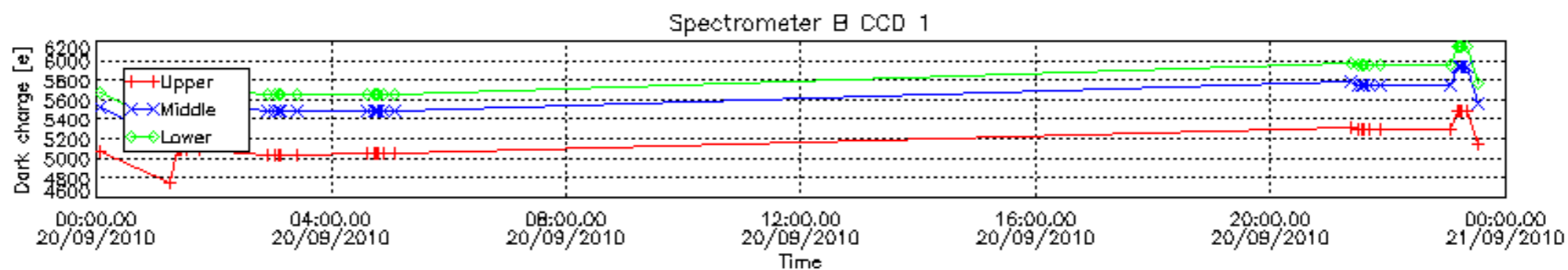
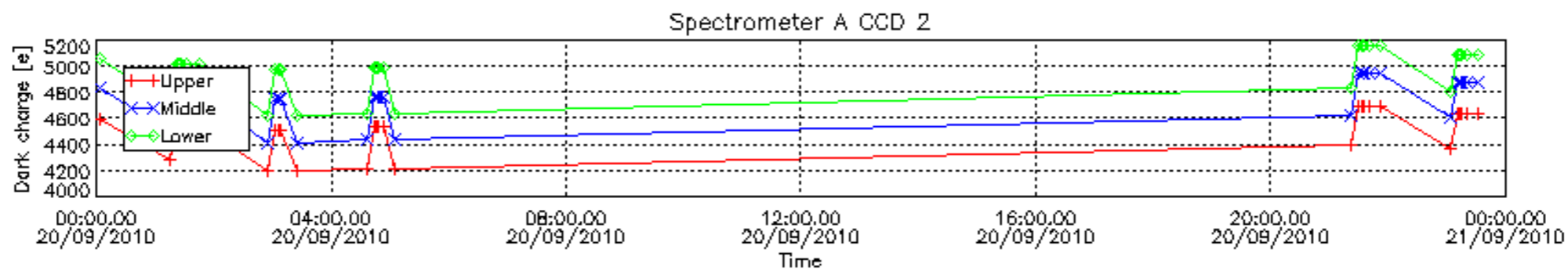
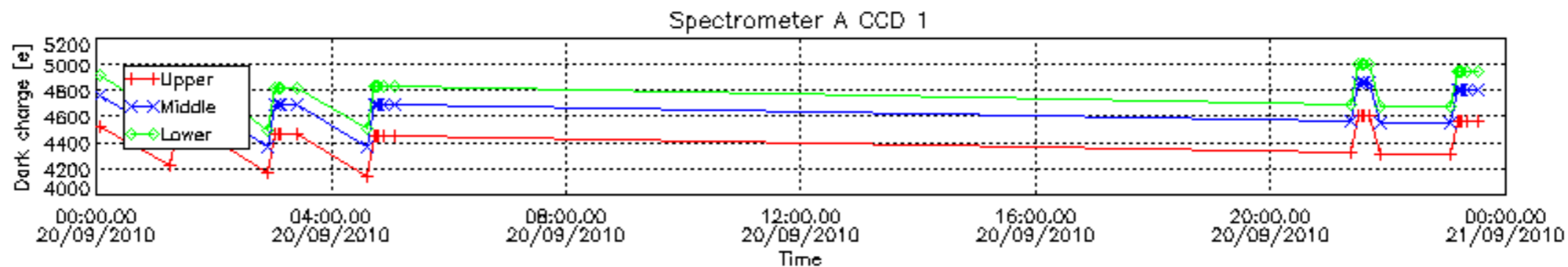


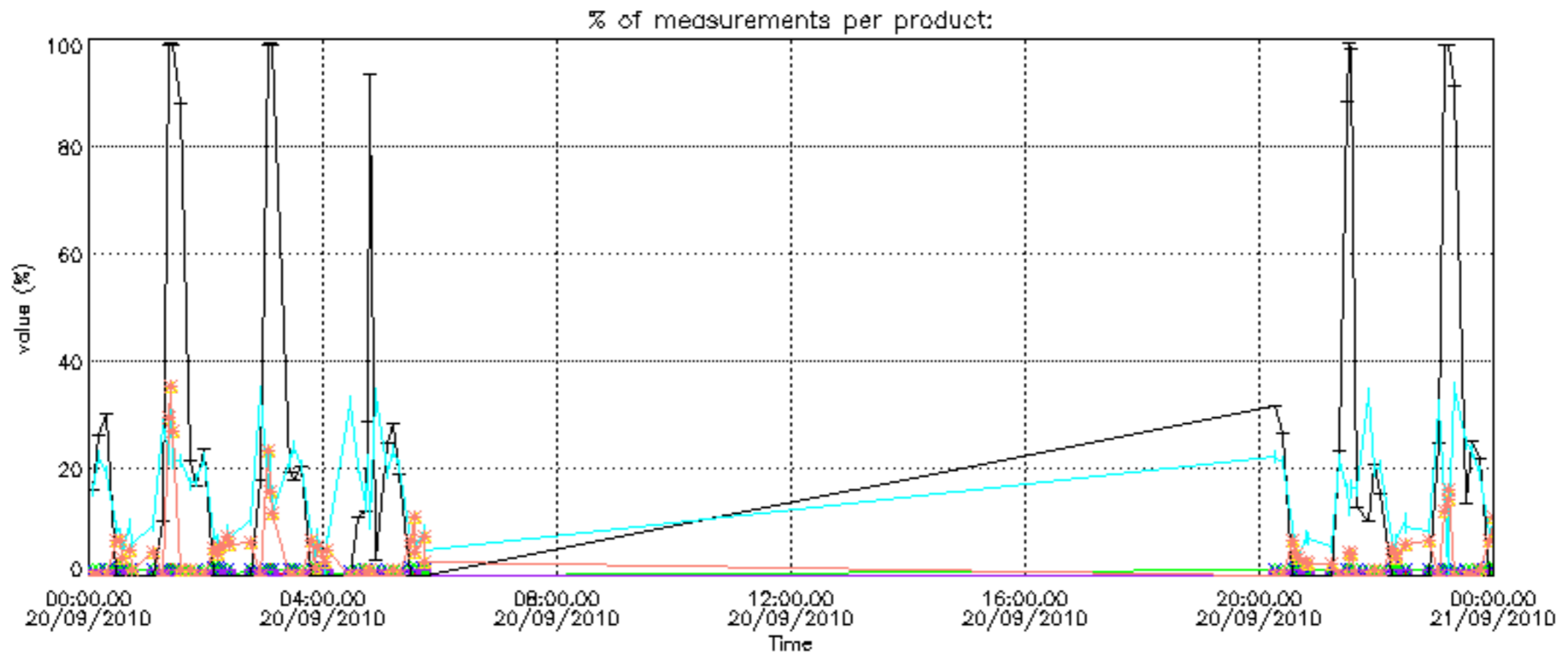
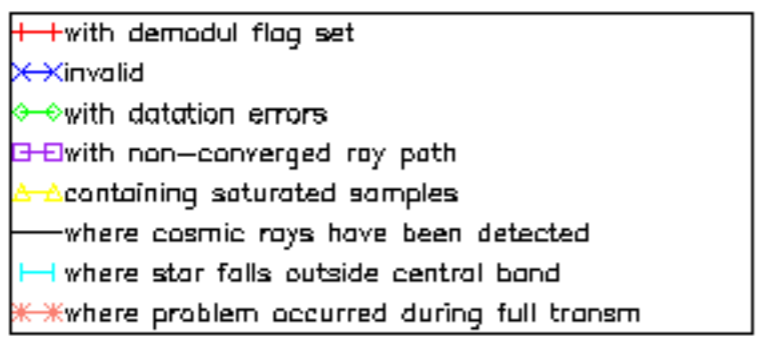
8. Auxiliary Data Files used for the production reported in section 2.4

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.

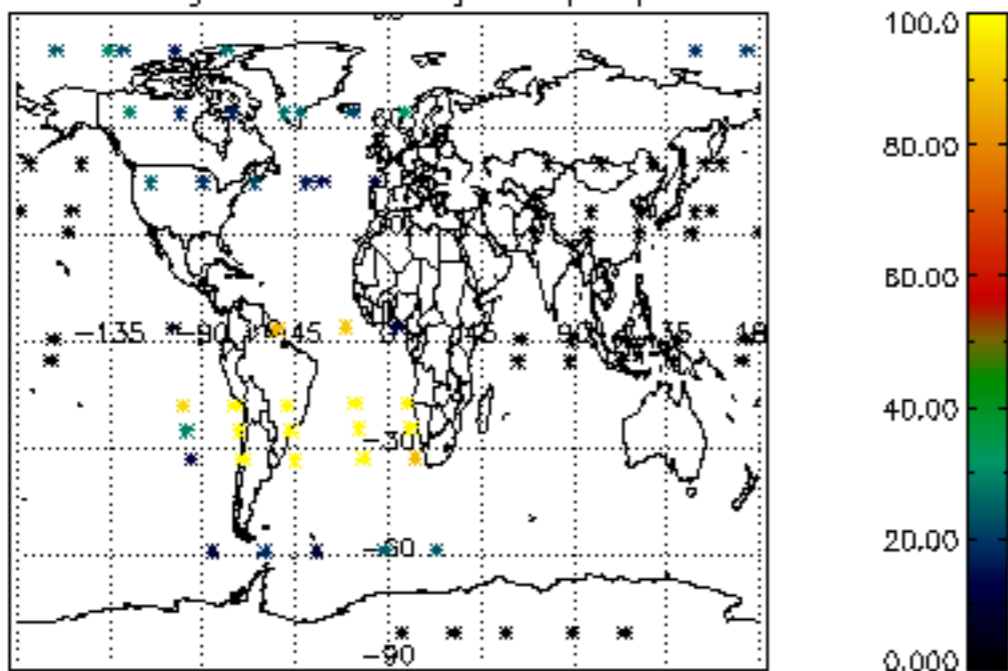
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	20-SEP-2010 00:03:56
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100917_112037_20100916_000000_20500101_000000	1	20-SEP-2010 00:03:56
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	20-SEP-2010 00:03:56
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-SEP-2010 00:03:56
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	20-SEP-2010 00:03:56
ECMWF_FILE	AUX_ECA_AXNECM20100920_052114_20100919_210000_20100920_090000	1	20-SEP-2010 00:03:56
ECMWF_FILE	AUX_ECF_AXNECM20100920_052115_20100920_150000_20100921_030000	50	20-SEP-2010 20:16:50
ECMWF_FILE	AUX_ECF_AXNECM20100920_054112_20100920_210000_20100921_090000	59	20-SEP-2010 21:30:01
OPTIONAL_ECMWF_FILE	MISSING	1	20-SEP-2010 00:03:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100919_233707_000057382093_00087_44730_1099.N1	1	20-SEP-2010 00:03:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100920_011804_000041442093_00088_44731_1100.N1	11	20-SEP-2010 01:22:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100920_023227_000054192093_00089_44732_1101.N1	23	20-SEP-2010 02:46:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100920_040806_000057382093_00090_44733_1102.N1	36	20-SEP-2010 04:27:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100920_200946_000041442093_00100_44743_1103.N1	50	20-SEP-2010 20:16:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100920_212409_000057382093_00100_44743_1104.N1	59	20-SEP-2010 21:30:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100920_230506_000057382093_00101_44744_1105.N1	73	20-SEP-2010 23:10:37



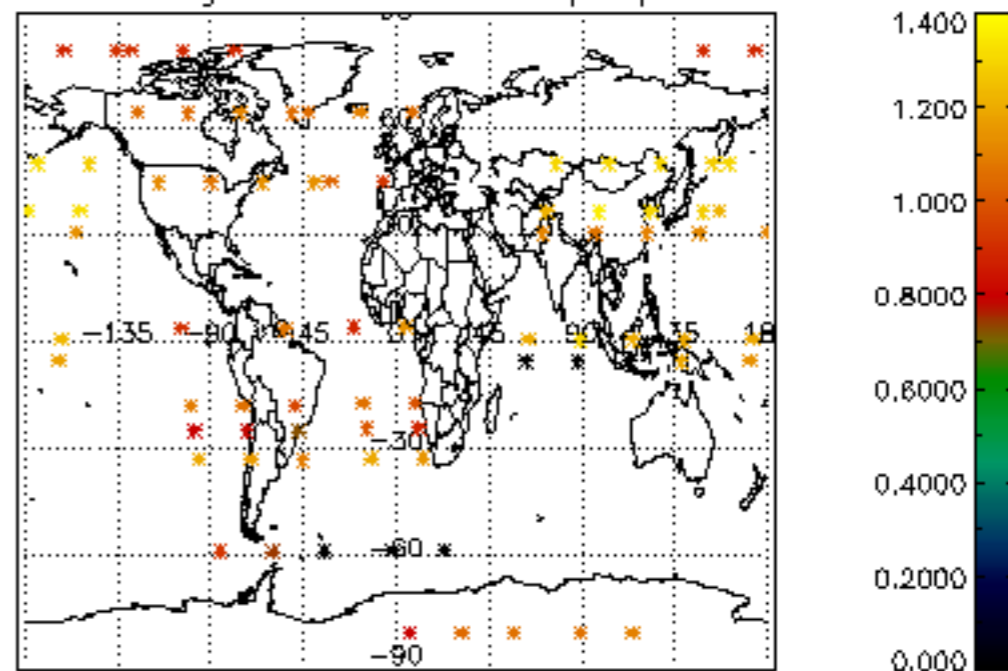




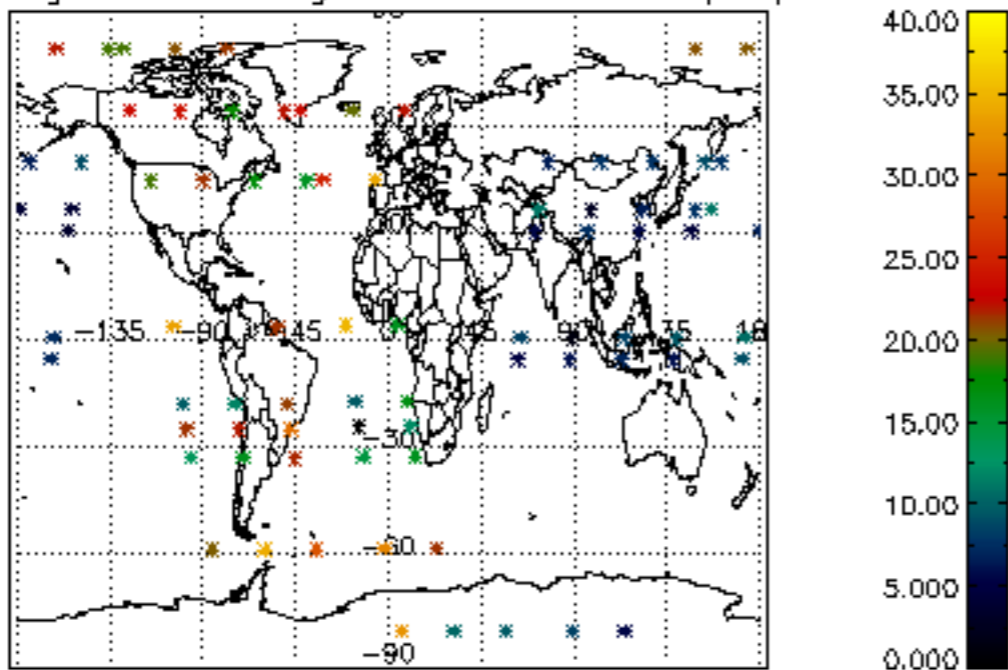
Percentage of cosmic ray hits per profile



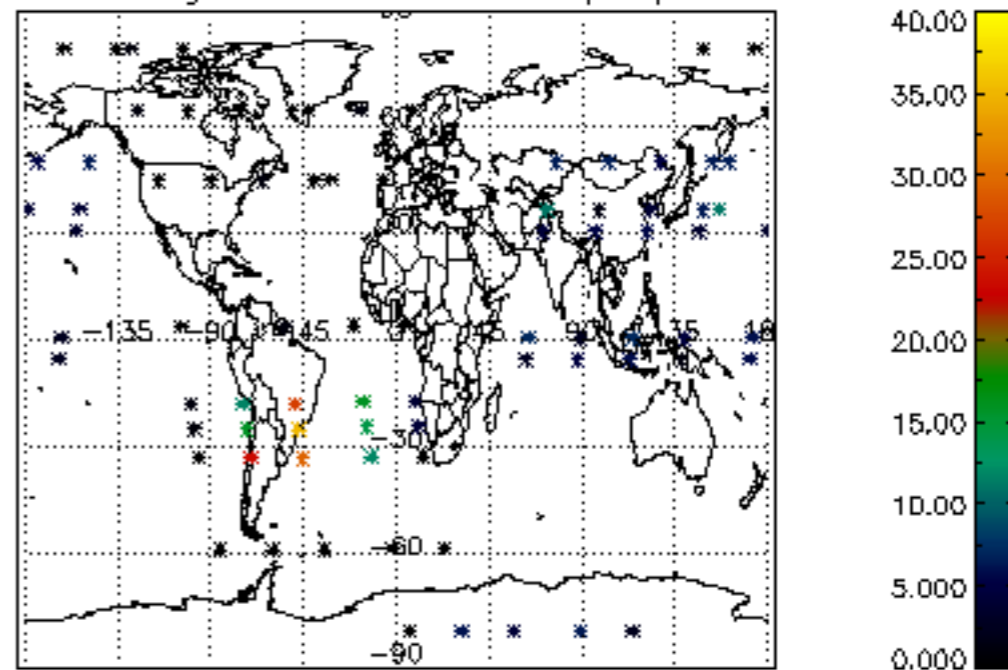
Percentage of datation errors per profile



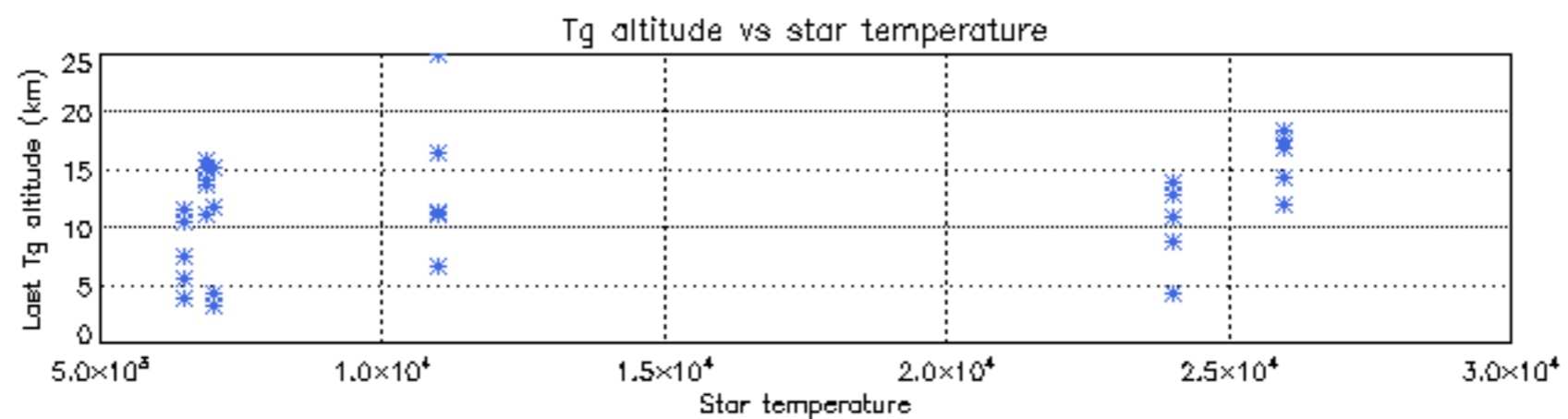
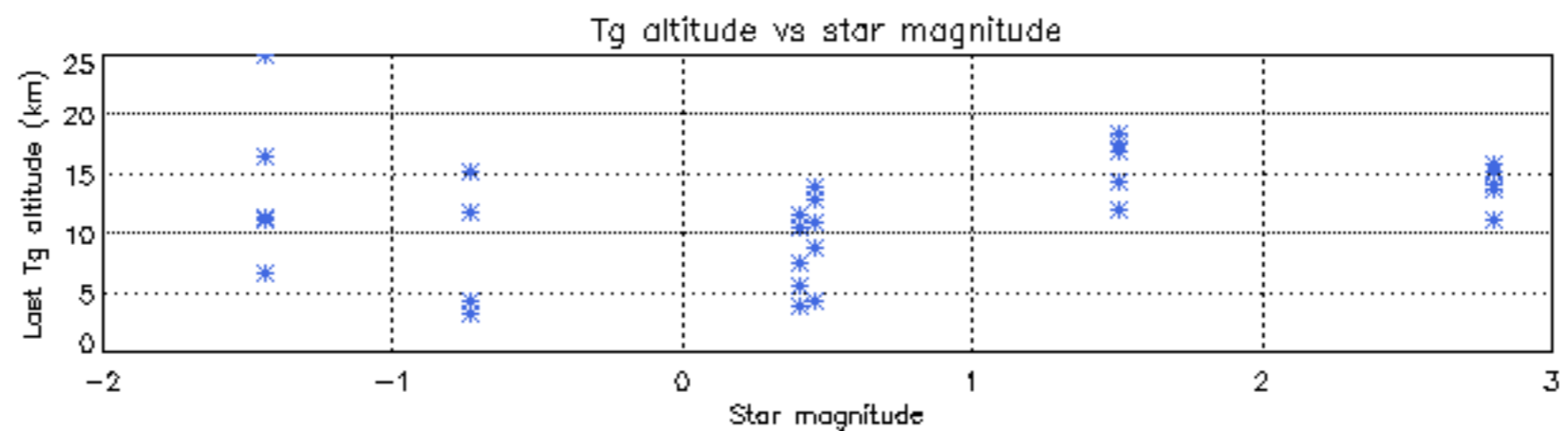
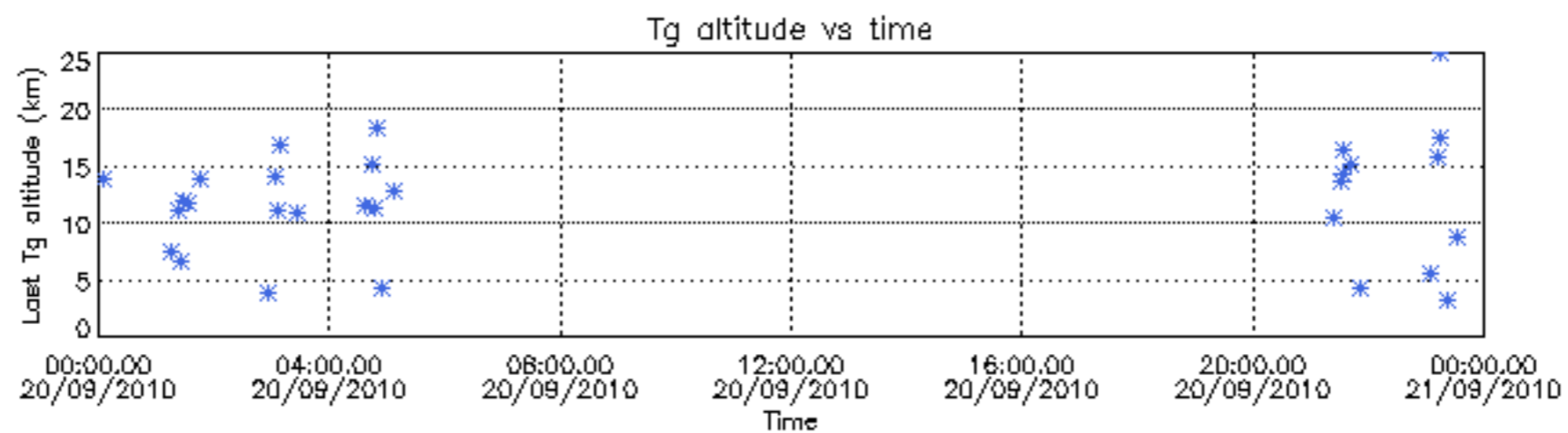
Percentage of star falling outside central band per profile



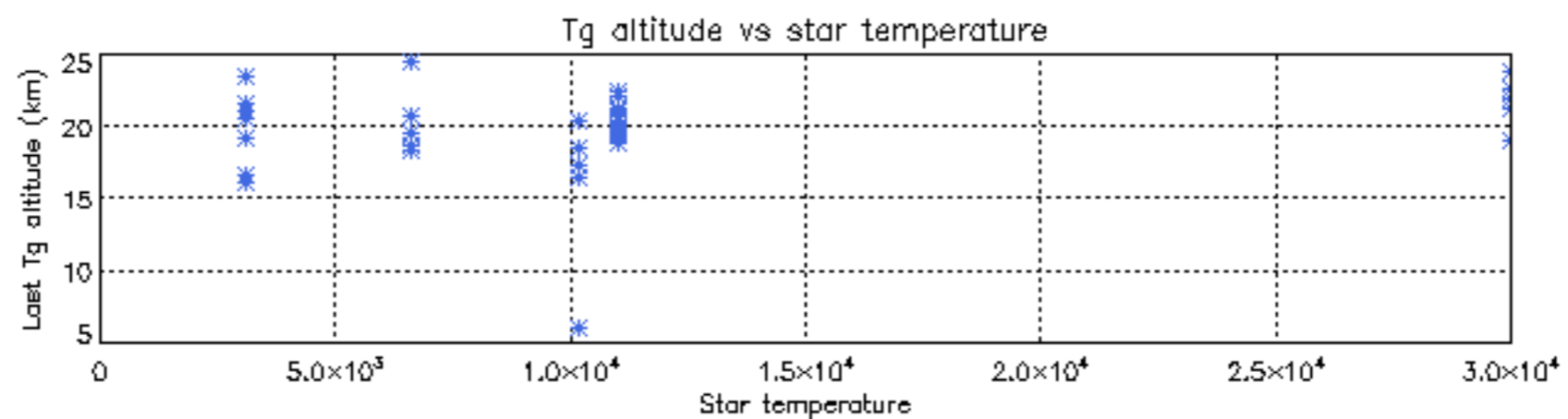
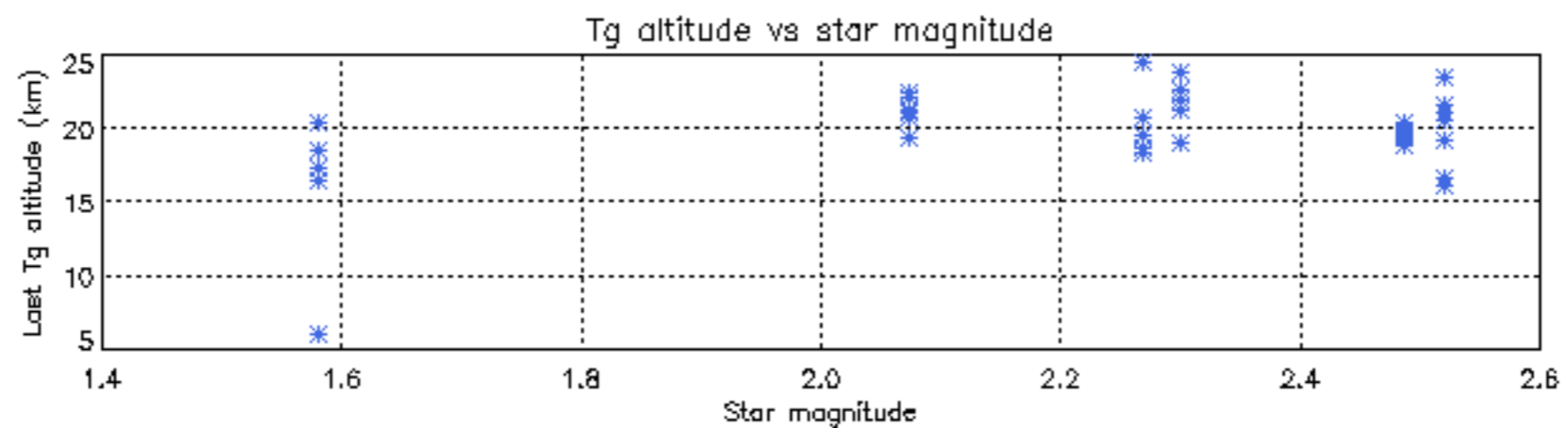
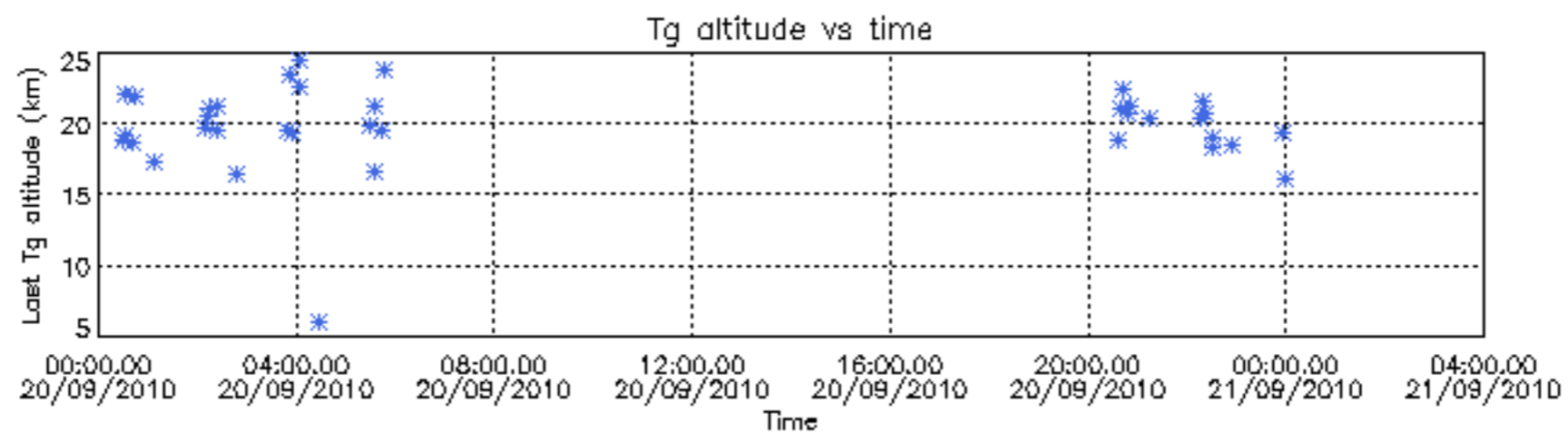
Percentage of saturation errors per profile

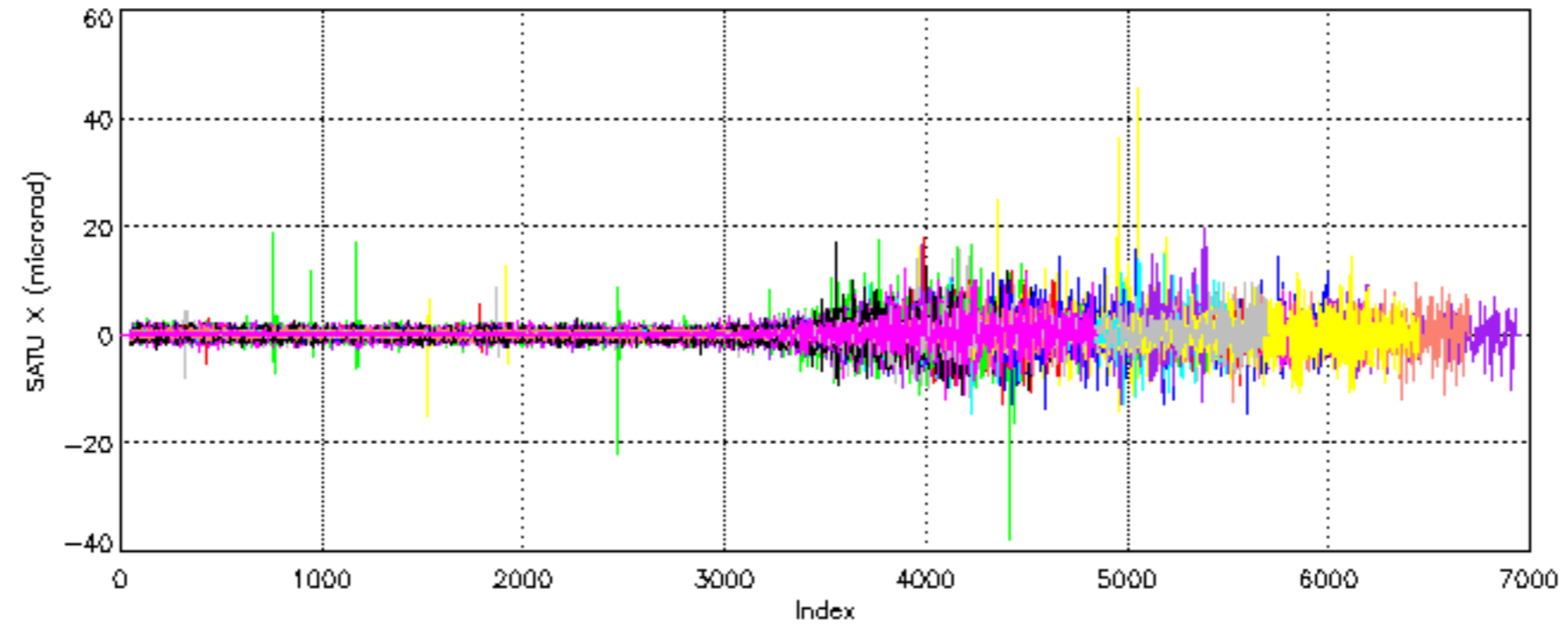


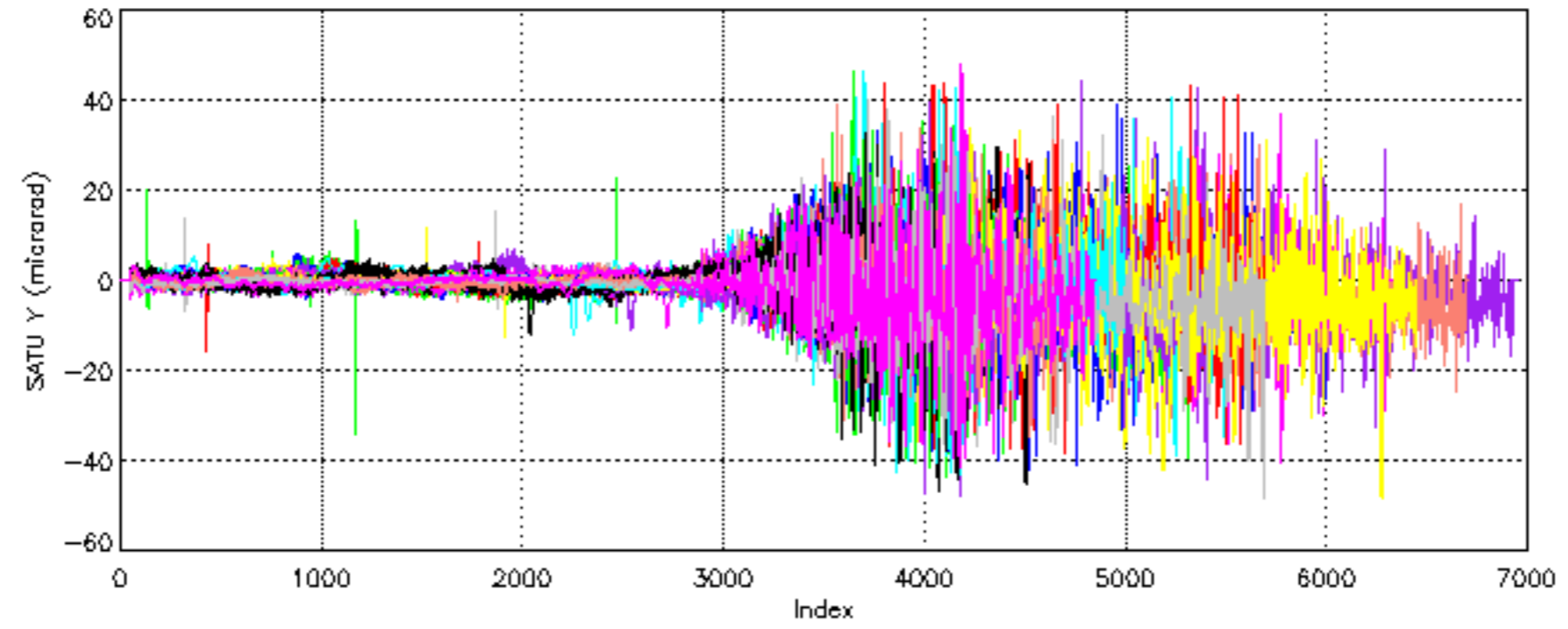
Tangent altitude at which the star is lost

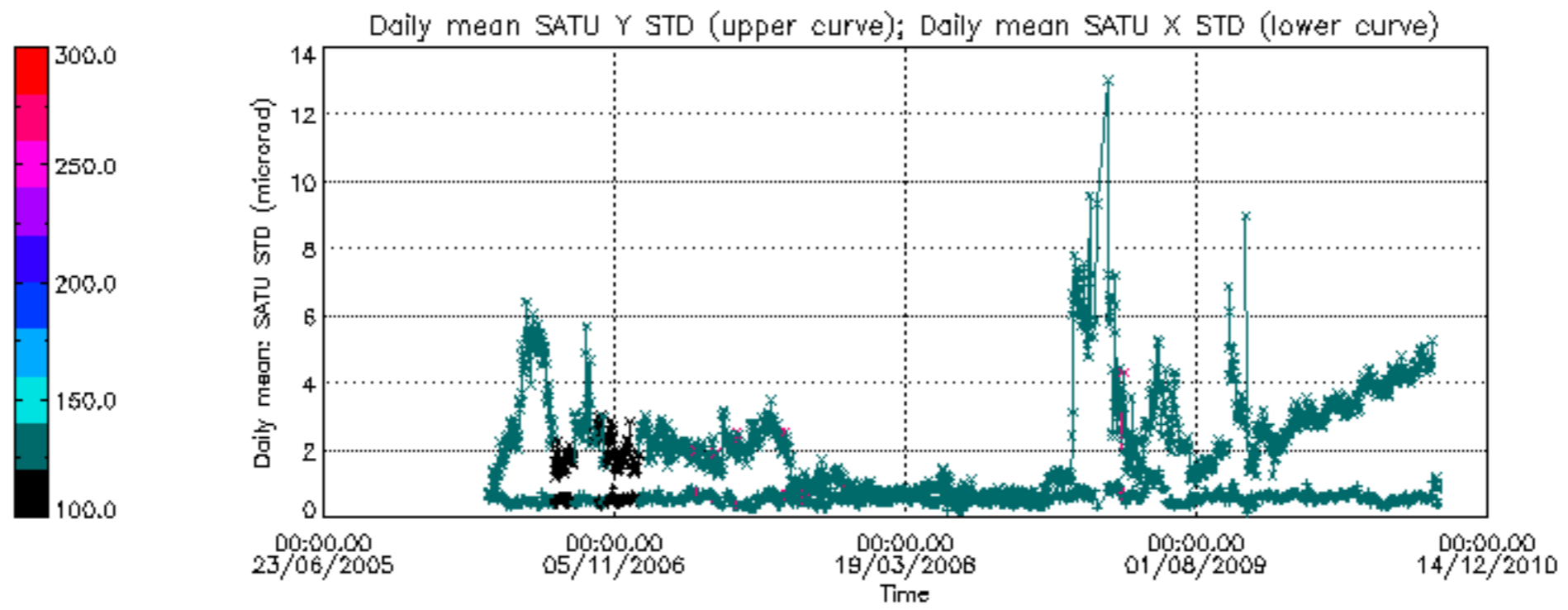


Tangent altitude at which the star is lost









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 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
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 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
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 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
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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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 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
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 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
16; 5680.7; 01-SEP-2010 03:03:52; Dark ; 52.0; 139; 9Bet Lep ; 2.83; 5600;occ; 104; 0;44460
17; 5795.5; 01-SEP-2010 03:05:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44460
18; 6562.2; 01-SEP-2010 03:18:33; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44461
19; 6638.7; 01-SEP-2010 03:19:50; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;44461
20; 6996.5; 01-SEP-2010 03:25:48; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;44461
21; 7364.8; 01-SEP-2010 03:31:56; Dark ; 50.0; 18; 24Alp PsA ; 1.17; 9700;occ; 100; 0;44461
22; 7931.4; 01-SEP-2010 03:41:23; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;44461
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 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
 15; 4954.4; 09-SEP-2010 02:00:01; Dark ; 48.5; 8; 10Alp CMi ; 0.40; 6500;occ; 97; 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
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 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
10; 3195.7; 09-SEP-2010 03:11:18; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 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
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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
10; -111.3; 09-SEP-2010 05:37:23; Dark ; 47.5; 108; Alp Col ; 2.65; 15200;occ; 95; 0;44576
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
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2; 1513.2; 09-SEP-2010 22:50:27; Dark ; 69.0; 52; 16Bet Cet ; 2.04; 4500;occ; 138; 0;44587
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
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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
10; -110.1; 09-SEP-2010 07:18:00; Dark ; 47.5; 108; Alp Col ; 2.65; 15200;occ; 95; 0;44577
11; 671.5; 09-SEP-2010 07:31:02; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;44578
12; 1023.4; 09-SEP-2010 07:36:54; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;44578
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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
10; 5457.5; 09-SEP-2010 08:50:48; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;44578
11; 5608.3; 09-SEP-2010 08:53:19; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;44578
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
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2; 2611.6; 09-SEP-2010 18:06:57; Bright; 54.5; 58; 21Alp And ; 2.07; 11000;occ; 109; 0;44584
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
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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
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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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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
5; 1514.3; 10-SEP-2010 03:52:16; Dark ; 68.0; 52; 16Bet Cet ; 2.04; 4500;occ; 136; 0;44590
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; 2605.1; 10-SEP-2010 05:51:02; Bright; 54.0; 58; 21Alp And ; 2.07; 11000;occ; 108; 0;44591
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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; 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
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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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8; 6677.0; 10-SEP-2010 12:00:42; Dark ; 57.5; 157; The1Eri ; 2.91; 9300;occ; 115; 0;44595
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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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 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
 8; 5553.8; 16-SEP-2010 11:53:28; Dark ; 64.5; 1; 9Alp CMa ; -1.44; 11000;occ; 129; 0;44680
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 3; 2410.4; 16-SEP-2010 14:22:16; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44682
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 5; 3024.9; 16-SEP-2010 14:32:31; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;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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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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3; 2409.9; 16-SEP-2010 17:43:28; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44684
4; 2531.6; 16-SEP-2010 17:45:30; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;44684
5; 3023.9; 16-SEP-2010 17:53:42; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44684
6; 3131.0; 16-SEP-2010 17:55:29; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44684
7; 4482.7; 16-SEP-2010 18:18:01; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;44684
8; 5007.0; 16-SEP-2010 18:26:45; Dark ; 59.5; 8; 10Alp CMI ; 0.40; 6500;occ; 119; 0;44684
9; 5452.6; 16-SEP-2010 18:34:11; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44684
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11; 5689.3; 16-SEP-2010 18:38:07; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;44684
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13; 5999.6; 22-SEP-2010 20:35:22; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44771
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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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 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
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 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
 8; 2389.7; 24-SEP-2010 23:33:46; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;44802
 9; 2977.7; 24-SEP-2010 23:43:34; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44802
10; 3070.2; 24-SEP-2010 23:45:06; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44802
11; 4498.9; 25-SEP-2010 00:08:55; Bright; 71.0; 24; 66Alp Gem ; 1.58; 10200;occ; 142; 0;44802
12; 5083.3; 25-SEP-2010 00:18:39; Dark ; 58.5; 8; 10Alp CMi ; 0.40; 6500;occ; 117; 0;44802
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 2; -960.0; 24-SEP-2010 07:32:33; Dark ; 67.0; 8; 10Alp CMi ; 0.40; 6500;occ; 134; 0;44792
 3; -522.2; 24-SEP-2010 07:39:51; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44792
 4; -341.9; 24-SEP-2010 07:42:51; Dark ; 36.0; 1; 9Alp CMA ; -1.44; 11000;occ; 72; 0;44792
 5; -243.9; 24-SEP-2010 07:44:29; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;44792
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4; 2685.6; 28-SEP-2010 21:32:13; Bright; 48.0; 53; 43Bet And ; 2.05; 3300;occ; 96; 0;44858
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6; 3045.4; 28-SEP-2010 21:38:13; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44858
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4; -65.9; 28-SEP-2010 22:26:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44858
5; 62.0; 28-SEP-2010 22:29:06; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;44859
6; 146.1; 28-SEP-2010 22:30:30; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;44859
7; 255.6; 28-SEP-2010 22:32:19; Dark ; 48.0; 108; Alp Col ; 2.65; 15200;occ; 96; 0;44859
8; 890.1; 28-SEP-2010 22:42:54; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44859
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6; -72.3; 28-SEP-2010 07:21:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44849
7; 55.7; 28-SEP-2010 07:23:36; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;44850
8; 242.8; 28-SEP-2010 07:26:43; Dark ; 56.5; 108; Alp Col ; 2.65; 15200;occ; 113; 0;44850
9; 883.1; 28-SEP-2010 07:37:23; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44850
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8; 5554.0; 28-SEP-2010 08:55:14; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;44850
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7; 5124.4; 28-SEP-2010 10:28:41; Dark ; 69.0; 8; 10Alp CMi ; 0.40; 6500;occ; 138; 0;44851
8; 5554.8; 28-SEP-2010 10:35:51; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44851
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4; 2962.2; 28-SEP-2010 11:33:14; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44852
5; 3048.0; 28-SEP-2010 11:34:40; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44852
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8; 5555.7; 28-SEP-2010 12:16:28; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;44852
9; 5763.0; 28-SEP-2010 12:19:55; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;44852
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13; 6282.8; 28-SEP-2010 12:28:35; Dark ; 56.0; 108; Alp Col ; 2.65; 15200;occ; 112; 0;44853
14; 6921.6; 28-SEP-2010 12:39:14; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44853
15; 7587.9; 28-SEP-2010 12:50:20; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44853
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6; 3047.3; 28-SEP-2010 14:55:51; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44854
7; 4506.8; 28-SEP-2010 15:20:11; Bright; 53.0; 24; 66Alp Gem ; 1.58; 10200;occ; 106; 0;44854
8; 5127.2; 28-SEP-2010 15:30:31; Dark ; 73.5; 8; 10Alp CMi ; 0.40; 6500;occ; 147; 0;44854
9; 5557.4; 28-SEP-2010 15:37:41; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44854
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11; 5861.8; 28-SEP-2010 15:42:46; Dark ; 58.5; 23; 21Eps CMA ; 1.50; 26000;occ; 117; 0;44854
12; 5967.2; 28-SEP-2010 15:44:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44854

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6; 3046.8; 28-SEP-2010 16:36:26; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44855
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11; 2952.1; 30-SEP-2010 23:54:37; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;44888
12; 3033.2; 30-SEP-2010 23:55:58; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44888
13; 4511.8; 01-OCT-2010 00:20:37; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44888
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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4; -131.7; 30-SEP-2010 07:57:50; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;44878
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3; 906.2; 30-SEP-2010 09:55:44; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44880
4; 1556.0; 30-SEP-2010 10:06:34; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44880
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5; 3036.1; 30-SEP-2010 12:11:50; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44881
6; 4510.9; 30-SEP-2010 12:36:24; Bright; 57.5; 24; 66Alp Gem ; 1.58; 10200;occ; 115; 0;44881
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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3; 2437.9; 30-SEP-2010 13:42:27; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44882
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
9; 5153.8; 30-SEP-2010 14:27:43; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;44882
10; 5578.9; 30-SEP-2010 14:34:48; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 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
13; 6199.8; 30-SEP-2010 14:45:09; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;44883
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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2; 2187.5; 30-SEP-2010 15:18:53; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44883
3; 2437.8; 30-SEP-2010 15:23:03; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44883
4; 2666.8; 30-SEP-2010 15:26:52; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44883
5; 2953.6; 30-SEP-2010 15:31:39; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44883
6; 3035.4; 30-SEP-2010 15:33:01; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44883
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
10; 5579.8; 30-SEP-2010 16:15:25; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44883
11; 5825.2; 30-SEP-2010 16:19:31; Dark ; 66.0; 37; 25Del CMA ; 1.83; 5900;occ; 132; 0;44883
12; 5988.2; 30-SEP-2010 16:22:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44883
13; 6200.8; 30-SEP-2010 16:25:46; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;44884
14; 6329.2; 30-SEP-2010 16:27:55; Dark ; 60.0; 108; Alp Col ; 2.65; 15200;occ; 120; 0;44884
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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
10; 5580.5; 30-SEP-2010 17:56:02; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44884
11; 5826.5; 30-SEP-2010 18:00:08; Dark ; 52.5; 37; 25Del CMA ; 1.83; 5900;occ; 105; 0;44884
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13; 6201.4; 30-SEP-2010 18:06:23; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;44885
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3; 2437.0; 30-SEP-2010 18:44:14; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44885
4; 2665.2; 30-SEP-2010 18:48:03; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44885
5; 2952.9; 30-SEP-2010 18:52:50; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44885

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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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