

GOMOS Daily Report 03-AUG-2011

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	06AUG2011 07:12:09
Data source version	GOMOS/6.01
Start time of products	03AUG2011 00:04:15
Stop time of products	03AUG2011 23:58:20
Store outputs in DB	Yes
Nb of level 1b prods	315
Nb of prods with errors	2

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

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

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

Red segments are missing products.

Blue segments are available products.

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

! DMOP (mission plan) file not available for current day: plot NOT generated.

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

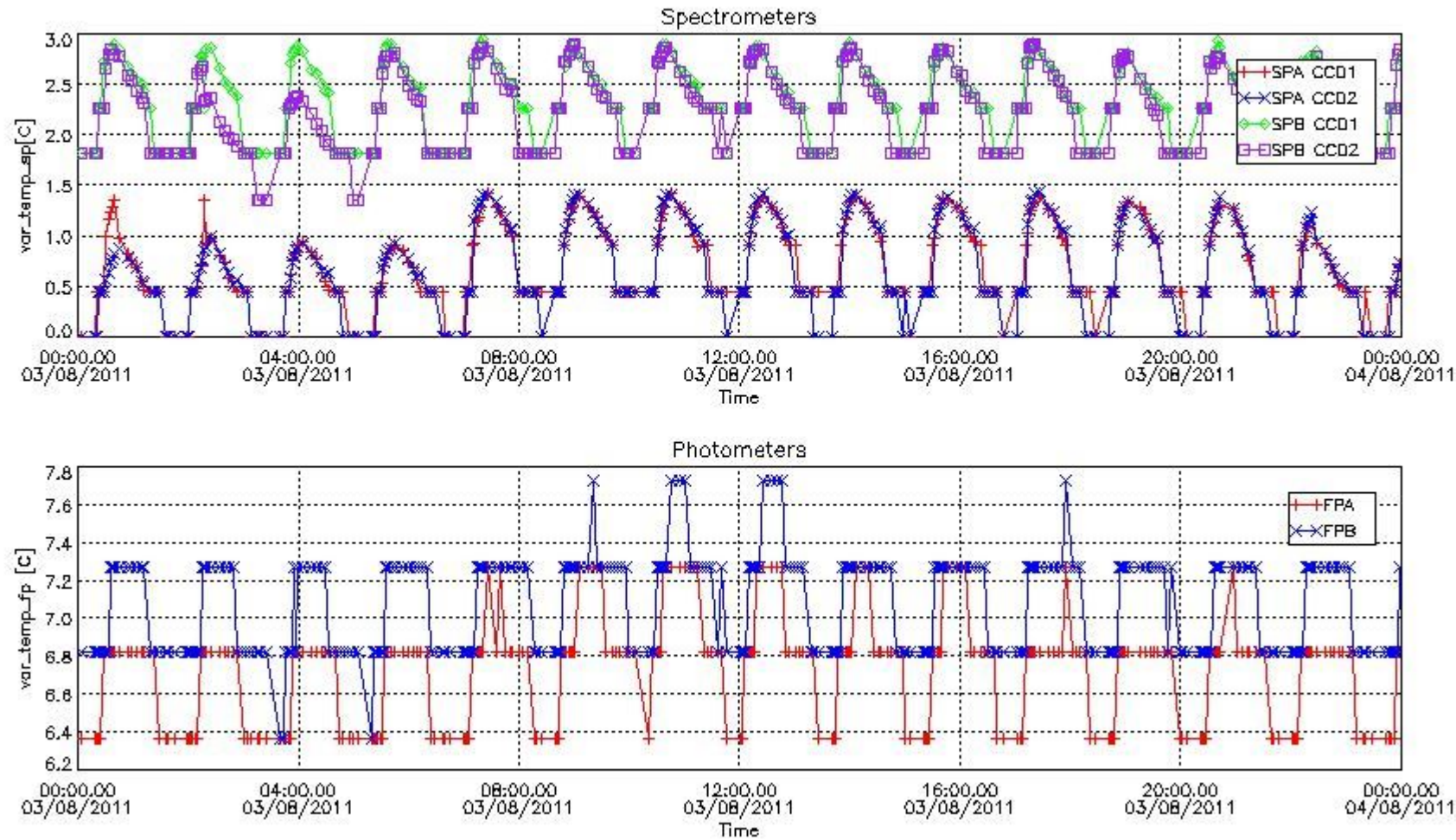
! DMOP (mission plan) file not available for current day: information on missing products NOT generated.

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_1PNPDE20110803_000415_000000413105_00131_49283_0547.N1	03-AUG-2011 00:04:15	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	49283	No
2	GOM_TRA_1PNPDE20110803_001900_000000493105_00131_49283_0548.N1	03-AUG-2011 00:19:00	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	49283	No
3	GOM_TRA_1PNPDE20110803_002042_000000513105_00131_49283_0549.N1	03-AUG-2011 00:20:42	Bright	51.000	35	33Alp Per	1.7950	6250.0	102	49283	No
4	GOM_TRA_1PNPDE20110803_002258_000000443105_00131_49283_0550.N1	03-AUG-2011 00:22:58	Bright	44.000	6	13Alp Aur	0.080000	3400.0	88	49283	No
5	GOM_TRA_1PNPDE20110803_002449_000000463105_00131_49283_0551.N1	03-AUG-2011 00:24:49	Bright	45.500	149	45Eps Per	2.8880	30000.	91	49283	No
6	GOM_TRA_1PNPDE20110803_002817_000000463105_00131_49283_0552.N1	03-AUG-2011 00:28:17	Bright	45.500	28	12Bet Tau	1.6500	15200.	91	49283	No
7	GOM_TRA_1PNPDE20110803_003024_000000423105_00131_49283_0553.N1	03-AUG-2011 00:30:24	Twilight	41.500	176	23Zet Tau	3.0200	22000.	83	49283	No
8	GOM_TRA_1PNPDE20110803_003300_000000573105_00131_49283_0554.N1	03-AUG-2011 00:33:00	Dark	56.500	13	87Alp Tau	0.86700	3800.0	113	49283	No
9	GOM_TRA_1PNPDE20110803_003459_000000433105_00131_49283_0555.N1	03-AUG-2011 00:34:59	Dark	42.500	27	24Gam Ori	1.6360	26000.	85	49283	No
10	GOM_TRA_1PNPDE20110803_003654_000000413105_00131_49283_0556.N1	03-AUG-2011 00:36:54	Dark	41.000	30	46Eps Ori	1.6940	30000.	82	49283	No
11	GOM_TRA_1PNPDE20110803_003926_000000473105_00131_49283_0557.N1	03-AUG-2011 00:39:26	Dark	46.500	7	19Bet Ori	0.10000	14000.	93	49283	No
12	GOM_TRA_1PNPDE20110803_004420_000000593105_00131_49283_0560.N1	03-AUG-2011 00:44:20	Dark	58.500	165	34Gam Eri	2.9500	3200.0	117	49283	No
13	GOM_TRA_1PNPDE20110803_005343_000000483105_00132_49284_0561.N1	03-AUG-2011 00:53:43	Dark	47.500	157	The1Eri	2.9060	9300.0	95	49284	No
14	GOM_TRA_1PNPDE20110803_005901_000000443105_00132_49284_0562.N1	03-AUG-2011 00:59:01	Dark	43.500	9	Alp Eri	0.45300	24000.	87	49284	No
15	GOM_TRA_1PNPDE20110803_010400_000000553105_00132_49284_0563.N1	03-AUG-2011 01:04:00	Straylight	54.500	84	Alp Phe	2.3970	4500.0	109	49284	No
16	GOM_TRA_1PNPDE20110803_010904_000000473105_00132_49284_0564.N1	03-AUG-2011 01:09:04	Straylight	47.000	31	Alp Gru	1.7340	15200.	94	49284	No
17	GOM_TRA_1PNPDE20110803_011210_000000463105_00132_49284_0565.N1	03-AUG-2011 01:12:10	Straylight	45.500	172	Gam Gru	3.0030	13100.	91	49284	No
18	GOM_TRA_1PNPDE20110803_011934_000000513105_00132_49284_0566.N1	03-AUG-2011 01:19:34	Bright	51.000	142	49Del Cap	2.8500	8900.0	102	49284	No
19	GOM_TRA_1PNPDE20110803_012335_000000433105_00132_49284_0567.N1	03-AUG-2011 01:23:35	Bright	43.000	154	22Bet Aqr	2.8990	5700.0	86	49284	No
20	GOM_TRA_1PNPDE20110803_012737_000000383105_00132_49284_0568.N1	03-AUG-2011 01:27:37	Bright	37.500	11	53Alp Aql	0.76500	8000.0	75	49284	No
21	GOM_TRA_1PNPDE20110803_013556_000000443105_00132_49284_0569.N1	03-AUG-2011 01:35:56	Bright	44.000	92	53Eps Cyg	2.5000	4500.0	88	49284	No
22	GOM_TRA_1PNPDE20110803_013804_000000353105_00132_49284_0570.N1	03-AUG-2011 01:38:04	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	49284	No
23	GOM_TRA_1PNPDE20110803_014429_000000423105_00132_49284_0571.N1	03-AUG-2011 01:44:29	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	49284	No
24	GOM_TRA_1PNPDE20110803_015914_000000563105_00132_49284_0572.N1	03-AUG-2011 01:59:14	Bright	56.000	160	23Gam Per	2.9300	4700.0	112	49284	No
25	GOM_TRA_1PNPDE20110803_020056_000000713105_00132_49284_0573.N1	03-AUG-2011 02:00:56	Bright	71.000	35	33Alp Per	1.7950	6250.0	142	49284	No
26	GOM_TRA_1PNPDE20110803_020312_000000433105_00132_49284_0574.N1	03-AUG-2011 02:03:12	Bright	43.000	6	13Alp Aur	0.080000	3400.0	86	49284	No
27	GOM_TRA_1PNPDE20110803_020503_000000503105_00132_49284_0575.N1	03-AUG-2011 02:05:03	Bright	49.500	149	45Eps Per	2.8880	30000.	99	49284	No
28	GOM_TRA_1PNPDE20110803_020831_000000463105_00132_49284_0576.N1	03-AUG-2011 02:08:31	Bright	46.000	28	12Bet Tau	1.6500	15200.	92	49284	No
29	GOM_TRA_1PNPDE20110803_021038_000000423105_00132_49284_0577.N1	03-AUG-2011 02:10:38	Twilight	41.500	176	23Zet Tau	3.0200	22000.	83	49284	No
30	GOM_TRA_1PNPDE20110803_021314_000000673105_00132_49284_0578.N1	03-AUG-2011 02:13:14	Dark	67.000	13	87Alp Tau	0.86700	3800.0	134	49284	No

267	GOM_TRA_1PNPDK20110803_202546_000000443105_00143_49295_5462.N1	03-AUG-2011 20:25:46	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	49295	No
268	GOM_TRA_1PNPDK20110803_202736_000000483105_00143_49295_5463.N1	03-AUG-2011 20:27:36	Bright	47.500	149	45Eps Per	2.8880	30000.	95	49295	No
269	GOM_TRA_1PNPDK20110803_203107_000000453105_00143_49295_5464.N1	03-AUG-2011 20:31:07	Bright	45.000	28	12Bet Tau	1.6500	15200.	90	49295	No
270	GOM_TRA_1PNPDK20110803_203315_000000423105_00143_49295_5465.N1	03-AUG-2011 20:33:15	Twilight	41.500	176	23Zet Tau	3.0200	22000.	83	49295	No
271	GOM_TRA_1PNPDK20110803_203553_000000553105_00143_49295_5466.N1	03-AUG-2011 20:35:53	Dark	54.500	13	87Alp Tau	0.86700	3800.0	109	49295	No
272	GOM_TRA_1PNPDK20110803_203751_000000443105_00143_49295_5467.N1	03-AUG-2011 20:37:51	Dark	43.500	27	24Gam Ori	1.6360	26000.	87	49295	No
273	GOM_TRA_1PNPDK20110803_203946_000000423105_00143_49295_5468.N1	03-AUG-2011 20:39:46	Dark	42.000	30	46Eps Ori	1.6940	30000.	84	49295	No
274	GOM_TRA_1PNPDK20110803_204220_000000493105_00143_49295_5469.N1	03-AUG-2011 20:42:20	Dark	48.500	7	19Bet Ori	0.10000	14000.	97	49295	No
275	GOM_TRA_1PNPDK20110803_205643_000000483105_00144_49296_5470.N1	03-AUG-2011 20:56:43	Dark	48.000	157	The1Eri	2.9060	9300.0	96	49296	No
276	GOM_TRA_1PNPDK20110803_210157_000000443105_00144_49296_5471.N1	03-AUG-2011 21:01:57	Dark	44.000	9	Alp Eri	0.45300	24000.	88	49296	No
277	GOM_TRA_1PNPDK20110803_210700_000000653105_00144_49296_5472.N1	03-AUG-2011 21:07:00	Straylight	65.000	84	Alp Phe	2.3970	4500.0	130	49296	No
278	GOM_TRA_1PNPDE20110803_211158_000000433105_00144_49296_0845.N1	03-AUG-2011 21:11:58	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	49296	No
279	GOM_TRA_1PNPDE20110803_211503_000000453105_00144_49296_0846.N1	03-AUG-2011 21:15:03	Straylight	45.000	172	Gam Gru	3.0030	13100.	90	49296	No
280	GOM_TRA_1PNPDE20110803_212224_000000503105_00144_49296_0847.N1	03-AUG-2011 21:22:24	Bright	50.000	142	49Del Cap	2.8500	8900.0	100	49296	No
281	GOM_TRA_1PNPDE20110803_212621_000000503105_00144_49296_0848.N1	03-AUG-2011 21:26:21	Bright	50.000	154	22Bet Aqr	2.8990	5700.0	100	49296	No
282	GOM_TRA_1PNPDE20110803_213025_000000373105_00144_49296_0849.N1	03-AUG-2011 21:30:25	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	49296	No
283	GOM_TRA_1PNPDE20110803_213839_000000493105_00144_49296_0850.N1	03-AUG-2011 21:38:39	Bright	48.500	92	53Eps Cyg	2.5000	4500.0	97	49296	No
284	GOM_TRA_1PNPDE20110803_214050_000000373105_00144_49296_0851.N1	03-AUG-2011 21:40:50	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	49296	No
285	GOM_TRA_1PNPDE20110803_214712_000000403105_00144_49296_0852.N1	03-AUG-2011 21:47:12	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	49296	No
286	GOM_TRA_1PNPDE20110803_220156_000000493105_00144_49296_0853.N1	03-AUG-2011 22:01:56	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	49296	No
287	GOM_TRA_1PNPDE20110803_220340_000000523105_00144_49296_0854.N1	03-AUG-2011 22:03:40	Bright	51.500	35	33Alp Per	1.7950	6250.0	103	49296	No
288	GOM_TRA_1PNPDE20110803_220600_000000433105_00144_49296_0855.N1	03-AUG-2011 22:06:00	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	49296	No
289	GOM_TRA_1PNPDE20110803_220749_000000473105_00144_49296_0856.N1	03-AUG-2011 22:07:49	Bright	47.000	149	45Eps Per	2.8880	30000.	94	49296	No
290	GOM_TRA_1PNPDE20110803_221121_000000453105_00144_49296_0857.N1	03-AUG-2011 22:11:21	Bright	45.000	28	12Bet Tau	1.6500	15200.	90	49296	No
291	GOM_TRA_1PNPDE20110803_221329_000000433105_00144_49296_0858.N1	03-AUG-2011 22:13:29	Twilight	42.500	176	23Zet Tau	3.0200	22000.	85	49296	No
292	GOM_TRA_1PNPDE20110803_221608_000000563105_00144_49296_0859.N1	03-AUG-2011 22:16:08	Dark	56.000	13	87Alp Tau	0.86700	3800.0	112	49296	No
293	GOM_TRA_1PNPDE20110803_221806_000000433105_00144_49296_0860.N1	03-AUG-2011 22:18:06	Dark	43.000	27	24Gam Ori	1.6360	26000.	86	49296	No
294	GOM_TRA_1PNPDE20110803_222000_000000423105_00144_49296_0861.N1	03-AUG-2011 22:20:00	Dark	42.000	30	46Eps Ori	1.6940	30000.	84	49296	No
295	GOM_TRA_1PNPDE20110803_222234_000000483105_00144_49296_0862.N1	03-AUG-2011 22:22:34	Dark	47.500	7	19Bet Ori	0.10000	14000.	95	49296	No
296	GOM_TRA_1PNPDE20110803_222735_000000603105_00144_49296_0873.N1	03-AUG-2011 22:27:35	Dark	60.000	165	34Gam Eri	2.9500	3200.0	120	49296	No
297	GOM_TRA_1PNPDE20110803_223658_000000483105_00145_49297_0874.N1	03-AUG-2011 22:36:58	Dark	48.000	157	The1Eri	2.9060	9300.0	96	49297	No
298	GOM_TRA_1PNPDE20110803_224212_000000473105_00145_49297_0875.N1	03-AUG-2011 22:42:12	Dark	46.500	9	Alp Eri	0.45300	24000.	93	49297	No
299	GOM_TRA_1PNPDE20110803_224715_000000543105_00145_49297_0876.N1	03-AUG-2011 22:47:15	Straylight	53.500	84	Alp Phe	2.3970	4500.0	107	49297	No
300	GOM_TRA_1PNPDE20110803_225212_000000463105_00145_49297_0877.N1	03-AUG-2011 22:52:12	Straylight	46.000	31	Alp Gru	1.7340	15200.	92	49297	No
301	GOM_TRA_1PNPDE20110803_225517_000000443105_00145_49297_0878.N1	03-AUG-2011 22:55:17	Straylight	44.000	172	Gam Gru	3.0030	13100.	88	49297	No
302	GOM_TRA_1PNPDE20110803_230238_000000513105_00145_49297_0879.N1	03-AUG-2011 23:02:38	Bright	50.500	142	49Del Cap	2.8500	8900.0	101	49297	No
303	GOM_TRA_1PNPDE20110803_230635_000000503105_00145_49297_0880.N1	03-AUG-2011 23:06:35	Bright	49.500	154	22Bet Aqr	2.8990	5700.0	99	49297	No
304	GOM_TRA_1PNPDE20110803_231039_000000373105_00145_49297_0881.N1	03-AUG-2011 23:10:39	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	49297	No
305	GOM_TRA_1PNPDE20110803_231852_000000433105_00145_49297_0882.N1	03-AUG-2011 23:18:52	Bright	42.500	92	53Eps Cyg	2.5000	4500.0	85	49297	No
306	GOM_TRA_1PNPDE20110803_232104_000000543105_00145_49297_0883.N1	03-AUG-2011 23:21:04	Bright	54.000	144	18Del Cyg	2.8600	11000.	108	49297	No
307	GOM_TRA_1PNPDE20110803_232726_000000403105_00145_49297_0884.N1	03-AUG-2011 23:27:26	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	49297	No
308	GOM_TRA_1PNPDE20110803_234210_000000493105_00145_49297_0885.N1	03-AUG-2011 23:42:10	Bright	49.000	160	23Gam Per	2.9300	4700.0	98	49297	No
309	GOM_TRA_1PNPDE20110803_234354_000000573105_00145_49297_0886.N1	03-AUG-2011 23:43:54	Bright	57.000	35	33Alp Per	1.7950	6250.0	114	49297	No
310	GOM_TRA_1PNPDE20110803_234614_000000373105_00145_49297_0887.N1	03-AUG-2011 23:46:14	Bright	37.000	6	13Alp Aur	0.080000	3400.0	74	49297	No
311	GOM_TRA_1PNPDE20110803_234803_000000473105_00145_49297_0888.N1	03-AUG-2011 23:48:03	Bright	46.500	149	45Eps Per	2.8880	30000.	93	49297	No
312	GOM_TRA_1PNPDE20110803_235135_000000463105_00145_49297_0889.N1	03-AUG-2011 23:51:35	Bright	45.500	28	12Bet Tau	1.6500	15200.	91	49297	No
313	GOM_TRA_1PNPDE20110803_235343_000000413105_00145_49297_0890.N1	03-AUG-2011 23:53:43	Twilight	40.500	176	23Zet Tau	3.0200	22000.	81	49297	No
314	GOM_TRA_1PNPDE20110803_235622_000000583105_00145_49297_0891.N1	03-AUG-2011 23:56:22	Dark	57.500	13	87Alp Tau	0.86700	3800.0	115	49297	No
315	GOM_TRA_1PNPDE20110803_235820_000000463105_00145_49297_0892.N1	03-AUG-2011 23:58:20	Dark	45.500	27	24Gam Ori	1.6360	26000.	91	49297	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).

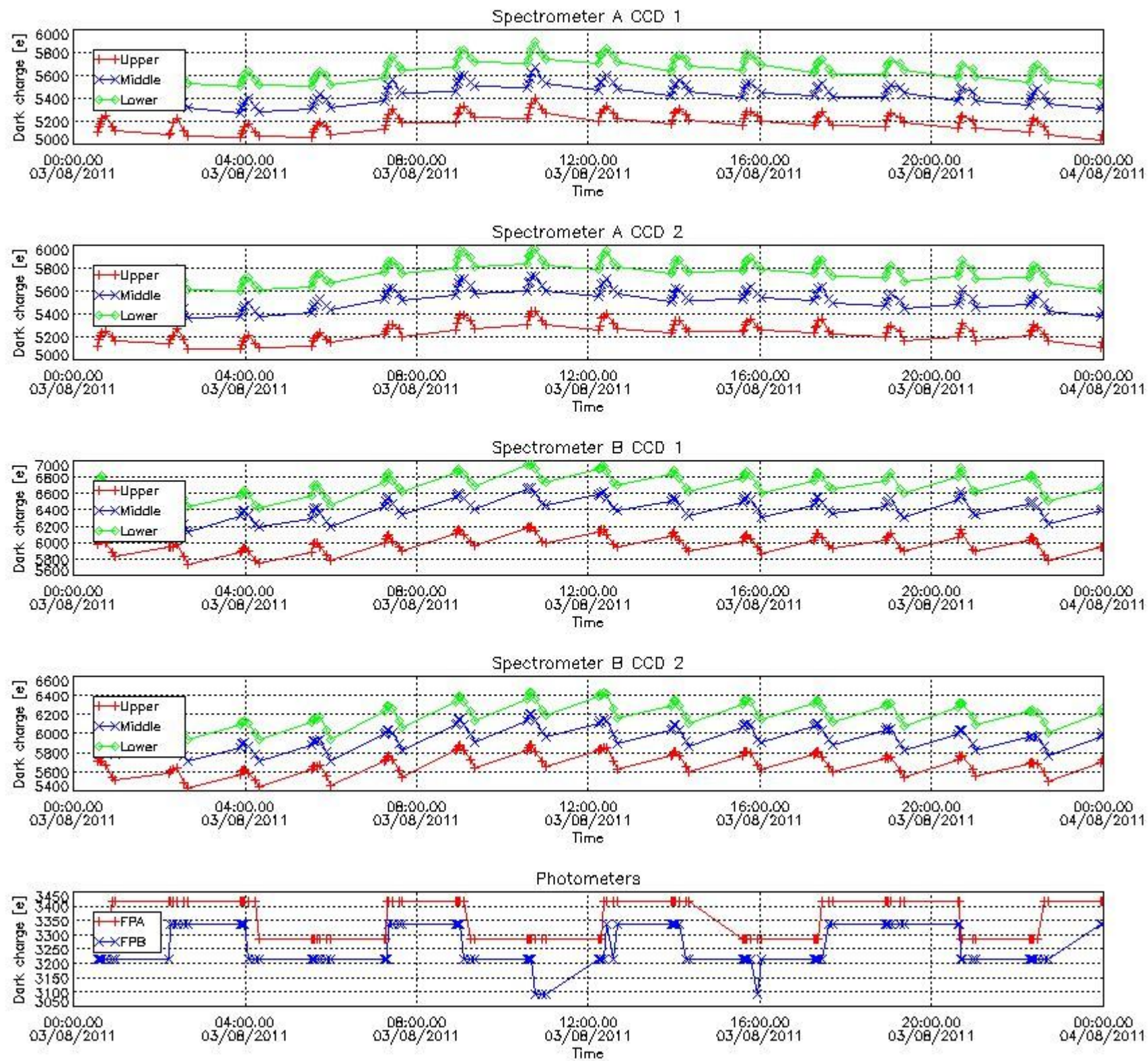
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20110803_211158_000000433105_00144_49296_0845.N1	DC map used
GOM_TRA_1PNPDE20110803_211503_000000453105_00144_49296_0846.N1	DC map used
GOM_TRA_1PNPDE20110803_212224_000000503105_00144_49296_0847.N1	DC map used
GOM_TRA_1PNPDE20110803_212621_000000503105_00144_49296_0848.N1	DC map used
GOM_TRA_1PNPDE20110803_213025_000000373105_00144_49296_0849.N1	DC map used
GOM_TRA_1PNPDE20110803_213839_000000493105_00144_49296_0850.N1	DC map used
GOM_TRA_1PNPDE20110803_214050_000000373105_00144_49296_0851.N1	DC map used
GOM_TRA_1PNPDE20110803_214712_000000403105_00144_49296_0852.N1	DC map used
GOM_TRA_1PNPDE20110803_220156_000000493105_00144_49296_0853.N1	DC map used
GOM_TRA_1PNPDE20110803_220340_000000523105_00144_49296_0854.N1	DC map used
GOM_TRA_1PNPDE20110803_220600_000000433105_00144_49296_0855.N1	DC map used
GOM_TRA_1PNPDE20110803_220749_000000473105_00144_49296_0856.N1	DC map used
GOM_TRA_1PNPDE20110803_221121_000000453105_00144_49296_0857.N1	DC map used
GOM_TRA_1PNPDE20110803_221329_000000433105_00144_49296_0858.N1	DC map used

GOM_TRA_1PNPDE20110803_221608_000000563105_00144_49296_0859.N1	DC map used
GOM_TRA_1PNPDE20110803_221806_000000433105_00144_49296_0860.N1	DC map used
GOM_TRA_1PNPDE20110803_222000_000000423105_00144_49296_0861.N1	DC map used
GOM_TRA_1PNPDE20110803_222234_000000483105_00144_49296_0862.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

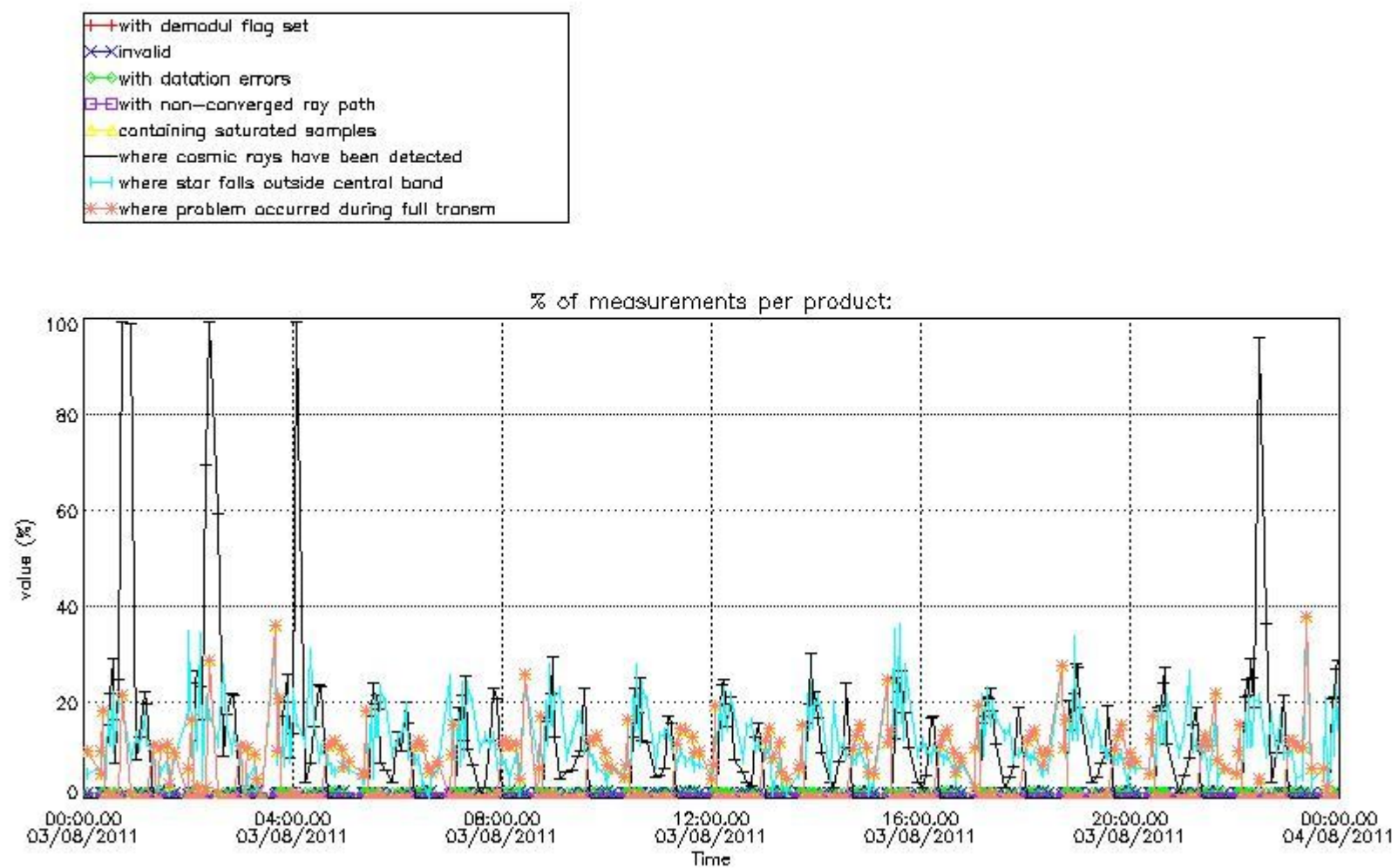
In this section it is presented the modulation information extracted from the pcd (product confidence data)

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.

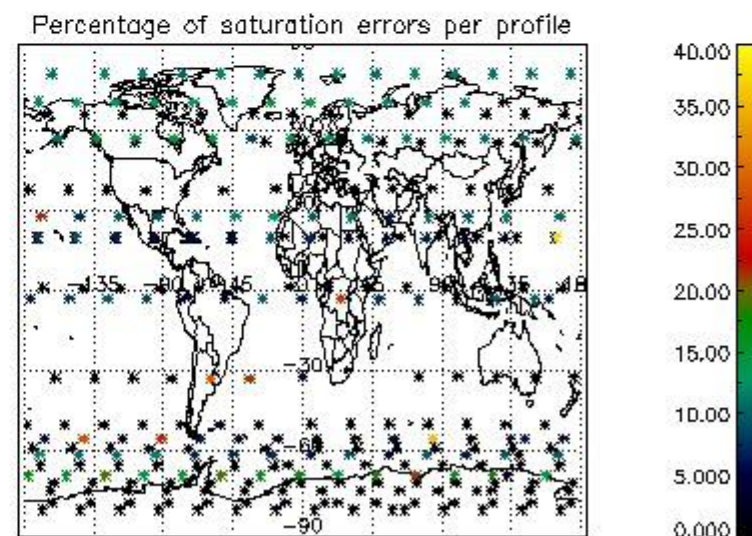
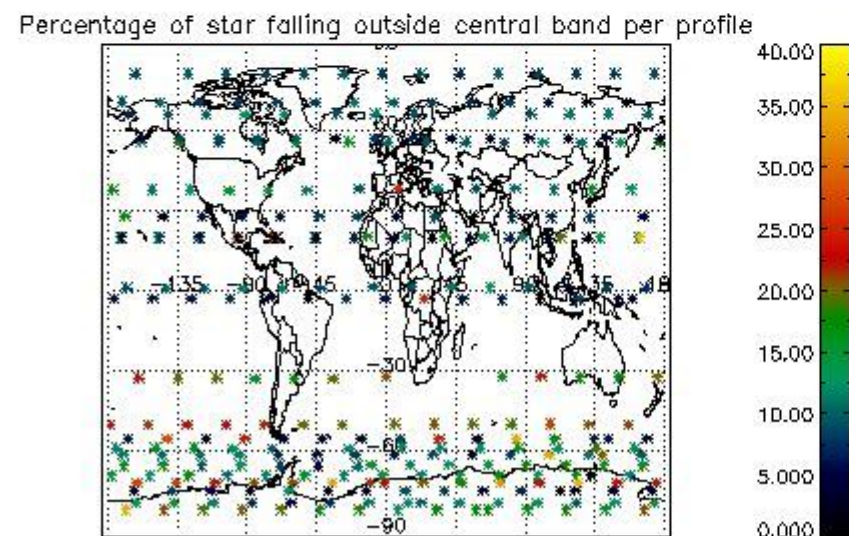
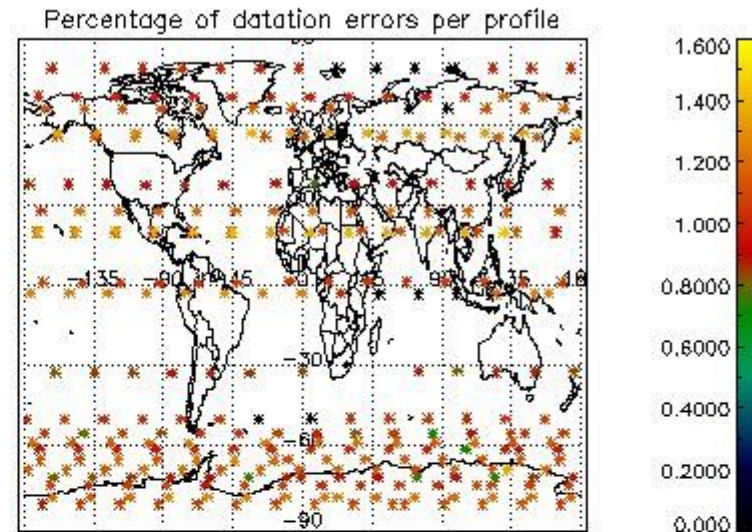
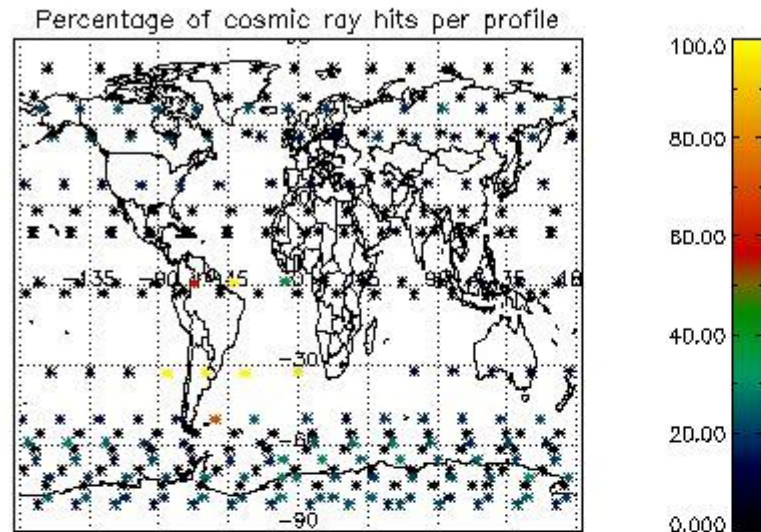
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	45.6869 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	51.1182 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



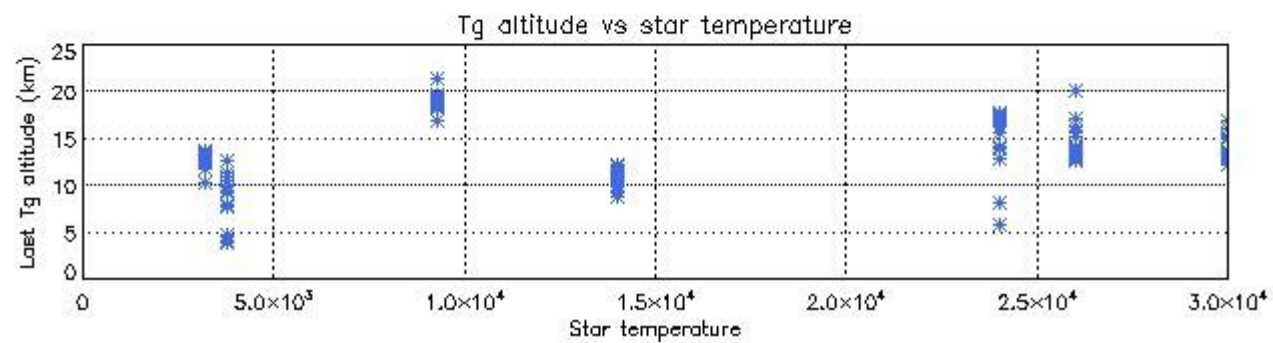
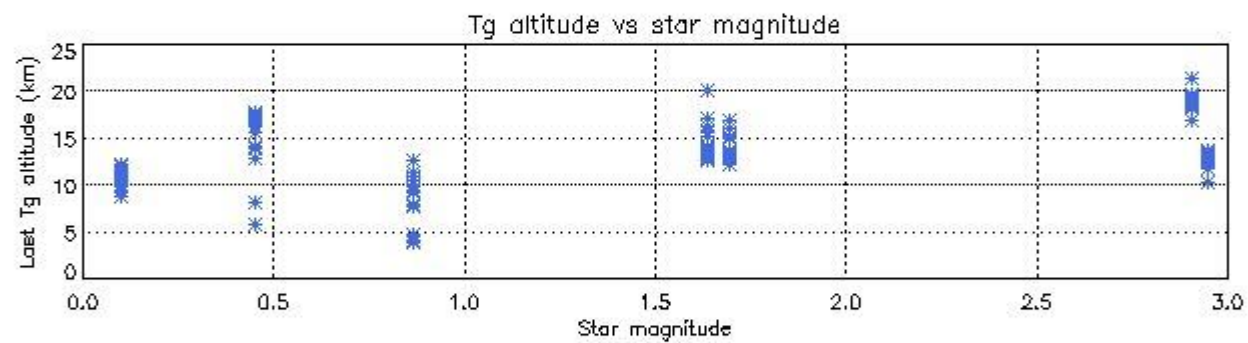
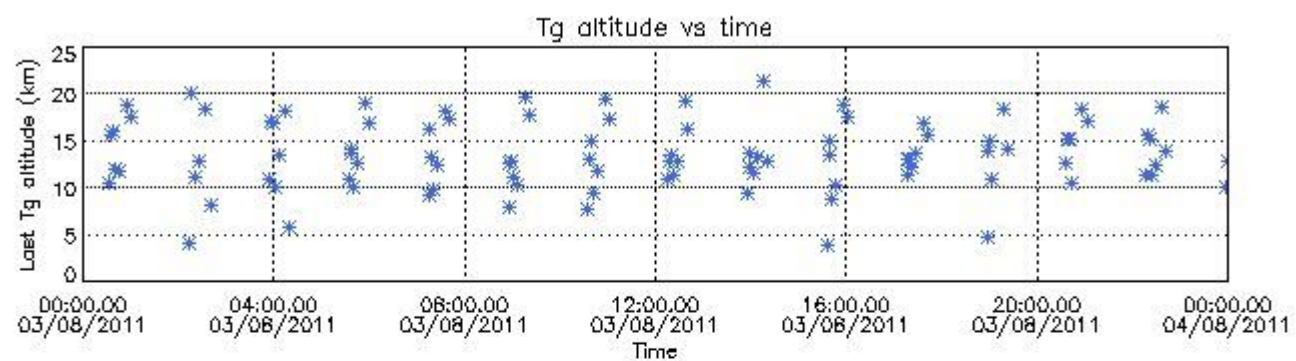
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.499	18.927	NaN
St. deviation:	3.6613	4.8098	NaN
Maximum:	21.398	32.653	NaN
Minimum:	3.9424	3.5520	NaN
Number of data:	97.000	160.00	NaN

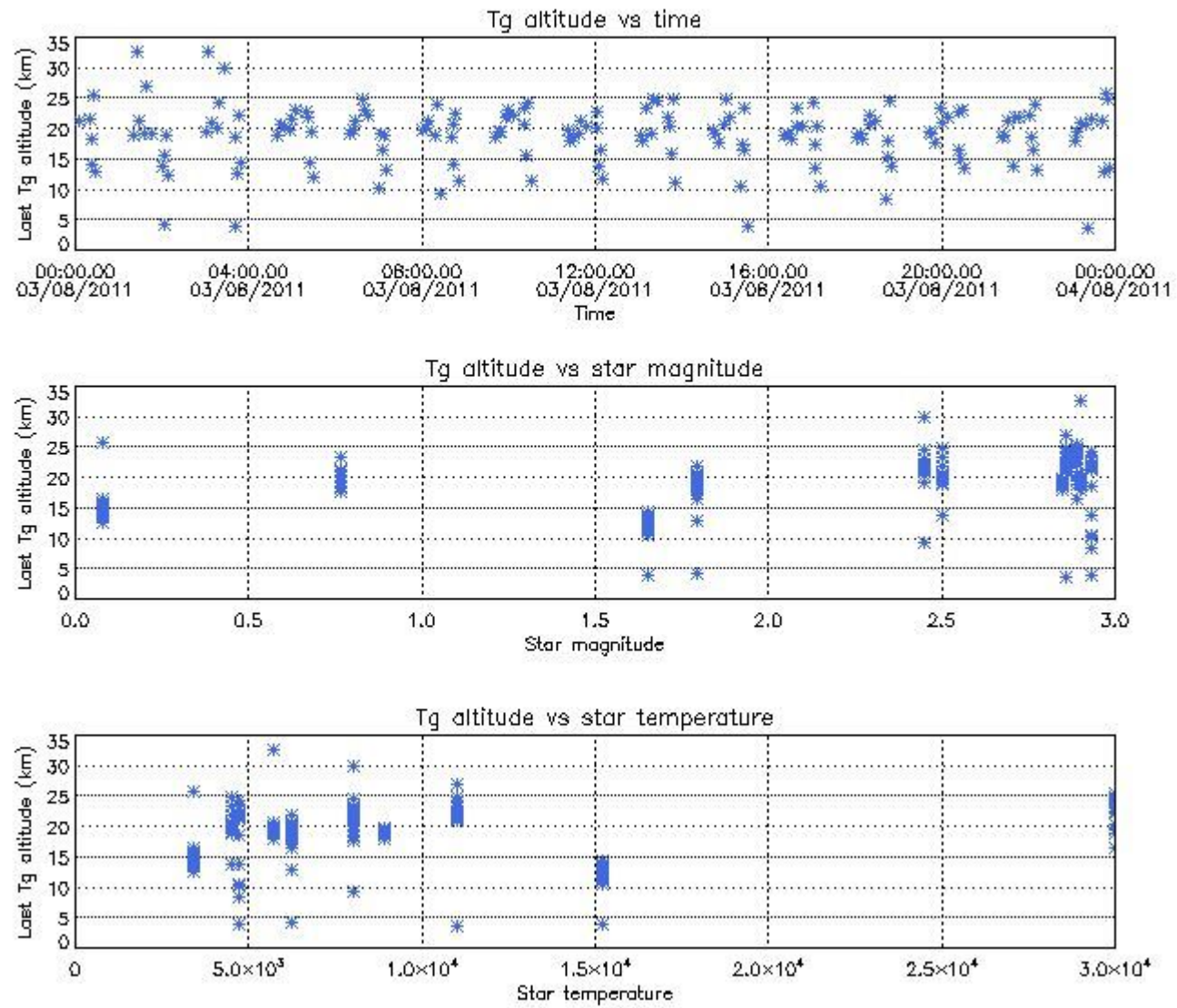
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

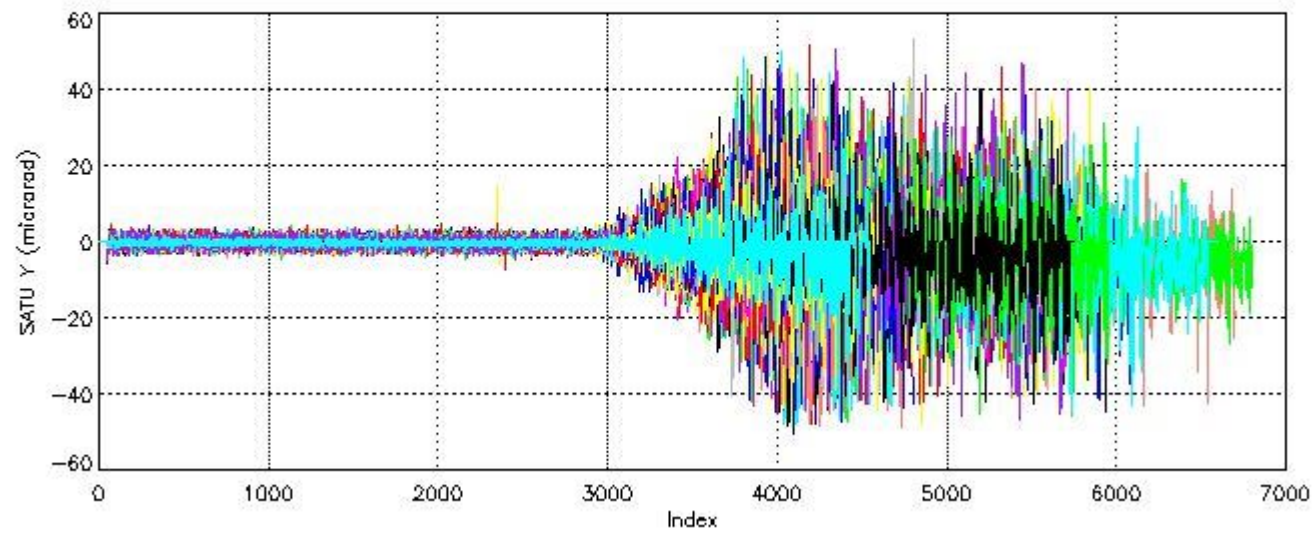
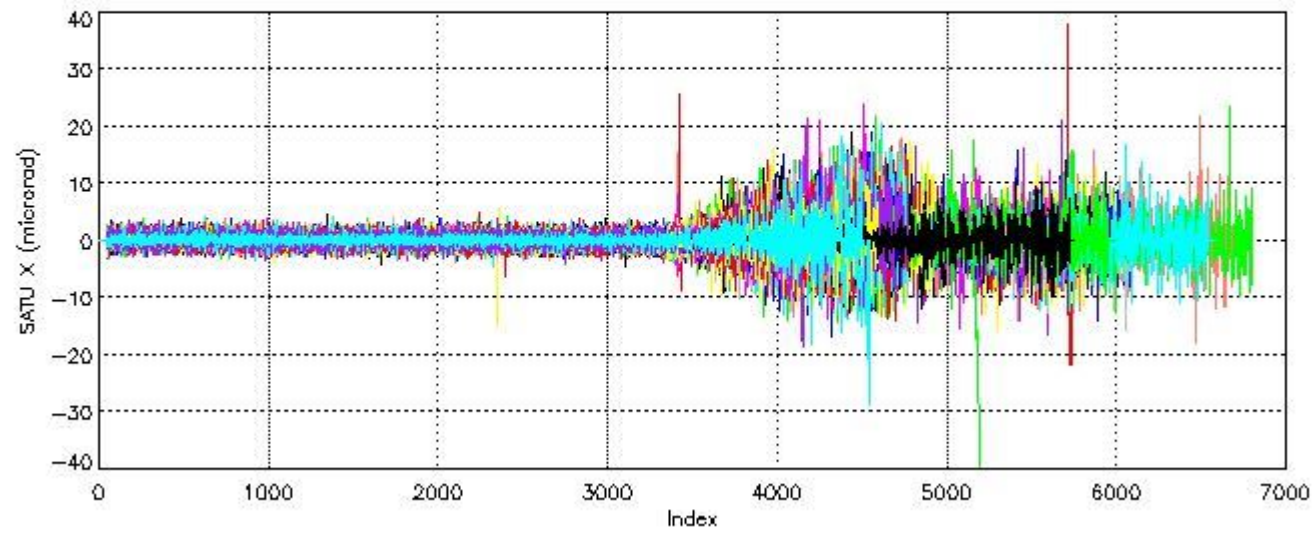


7. Star Acquisition and Tracking Unit (SATU)

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:	0.14311	-0.22716	0.21214	-0.23558
St. deviation:	0.41374	0.47265	0.78779	0.87311
Maximum:	4.2000	4.8000	8.6000	21.900
Minimum:	-3.7000	-5.9000	-23.300	-9.4000

Number of data:	99600.	99600.	1.6440E+05	1.6440E+05
90Percentile:	0.70000	0.30000	1.3000	0.90000

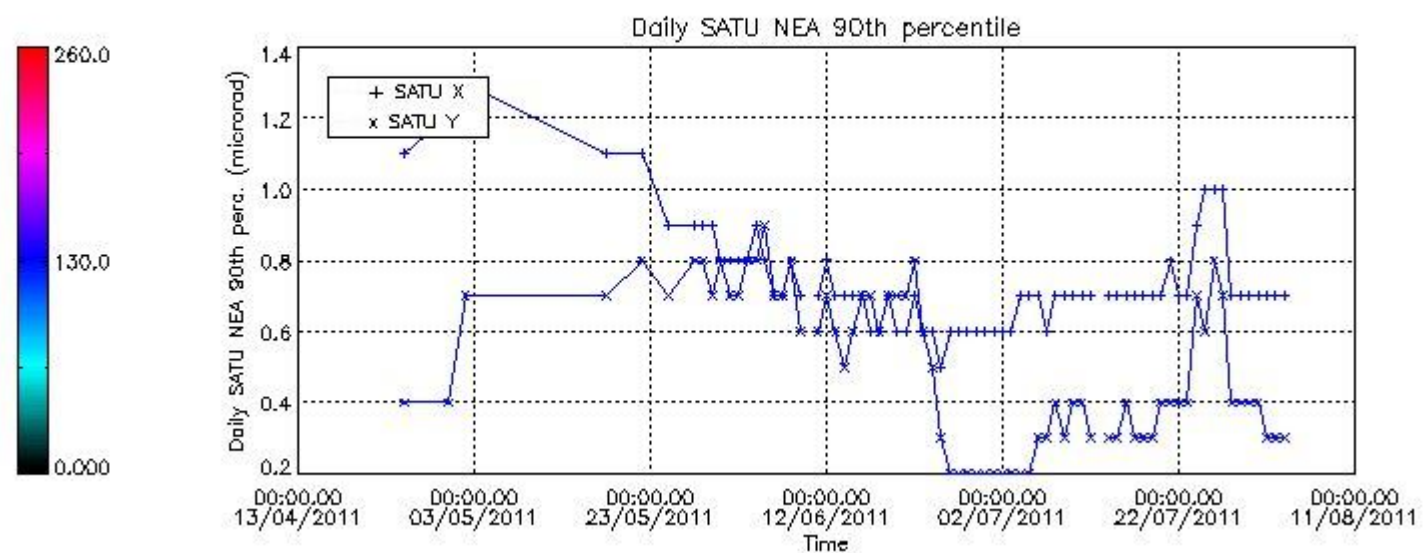
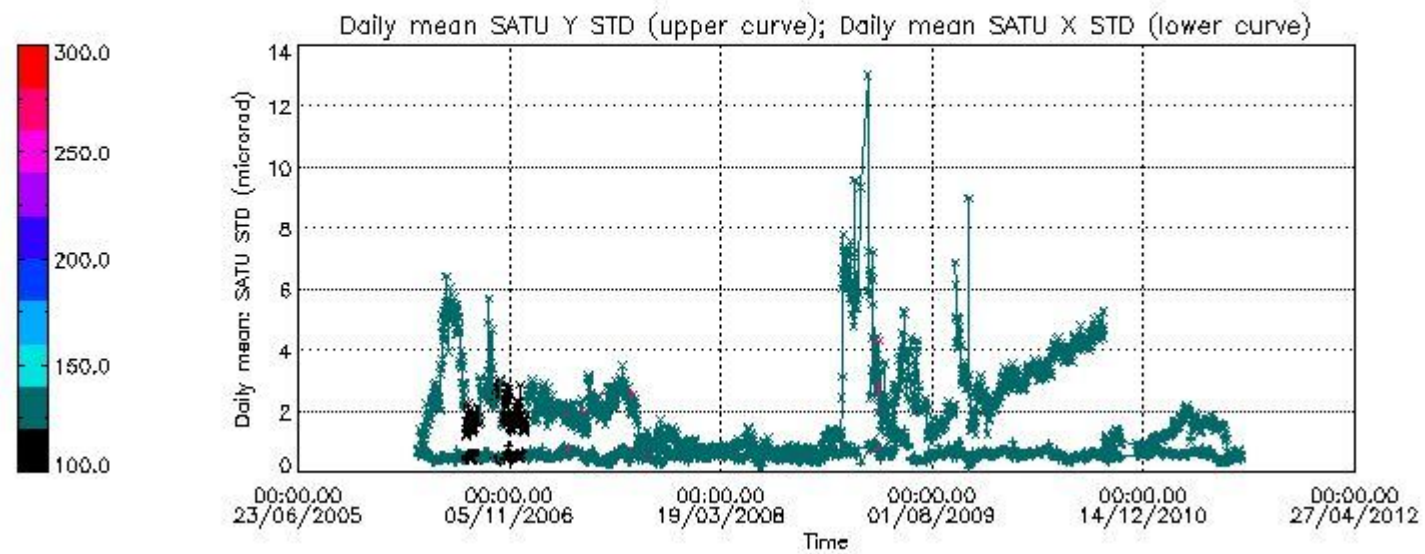
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

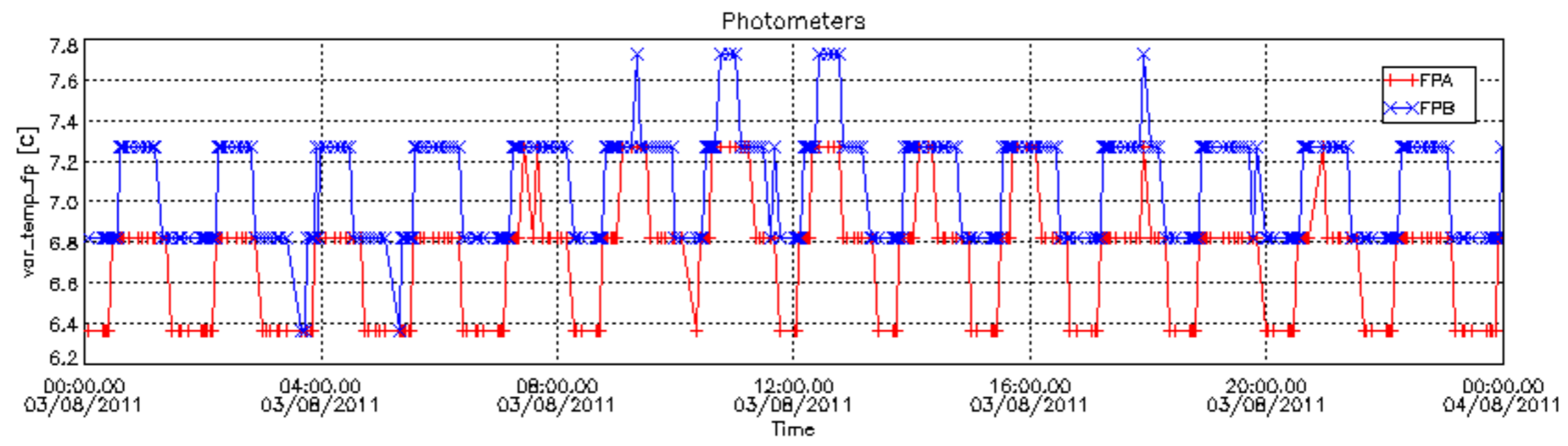
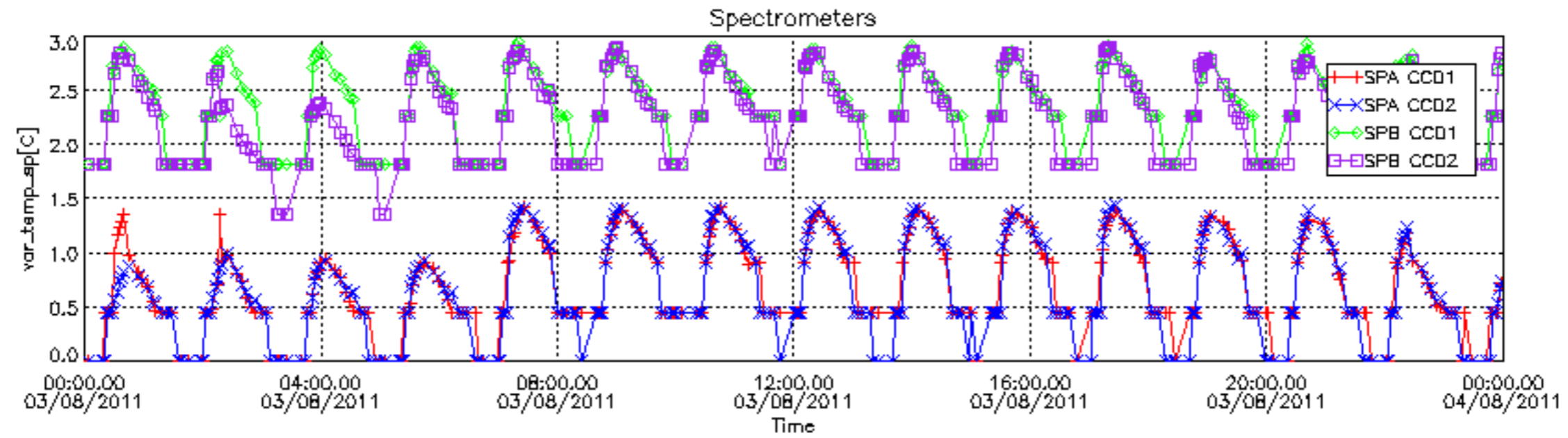
Lower curve: STD of SATU X axis

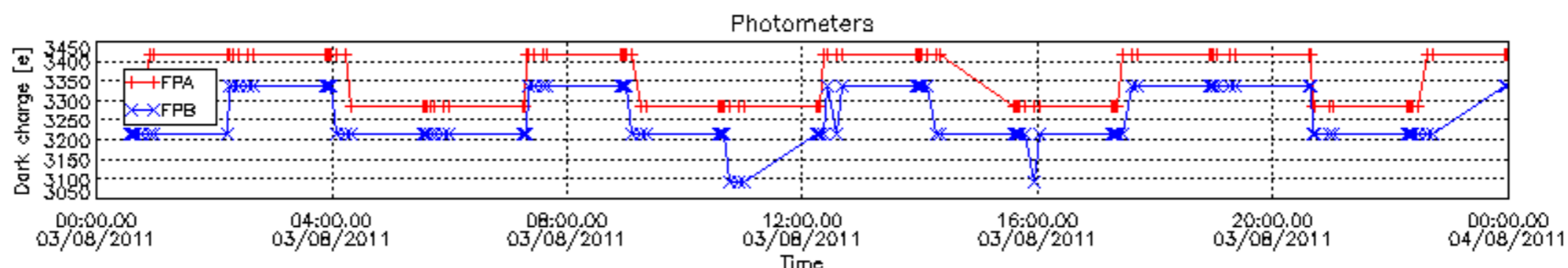
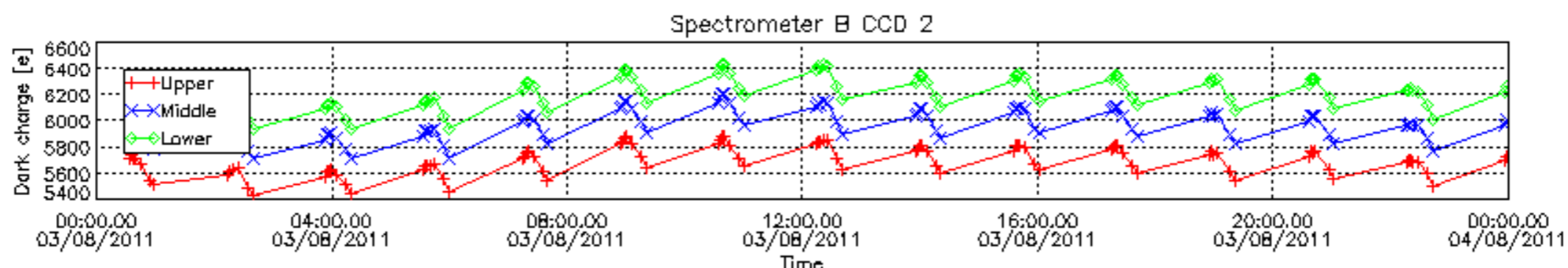
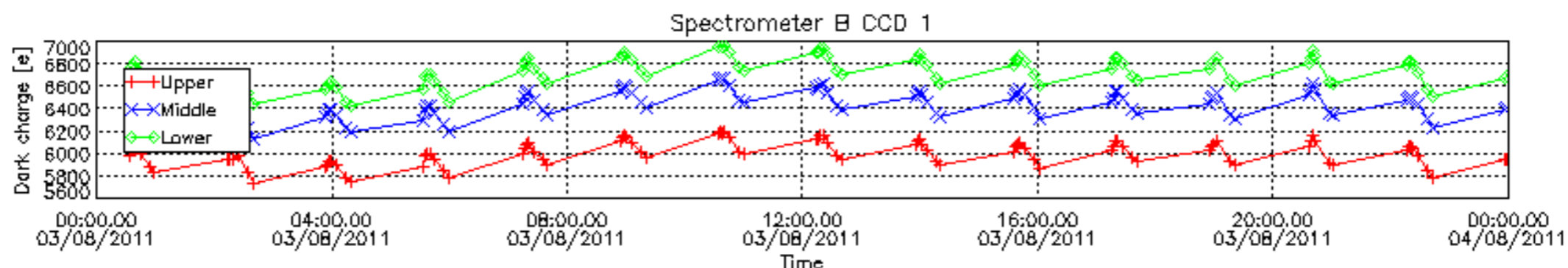
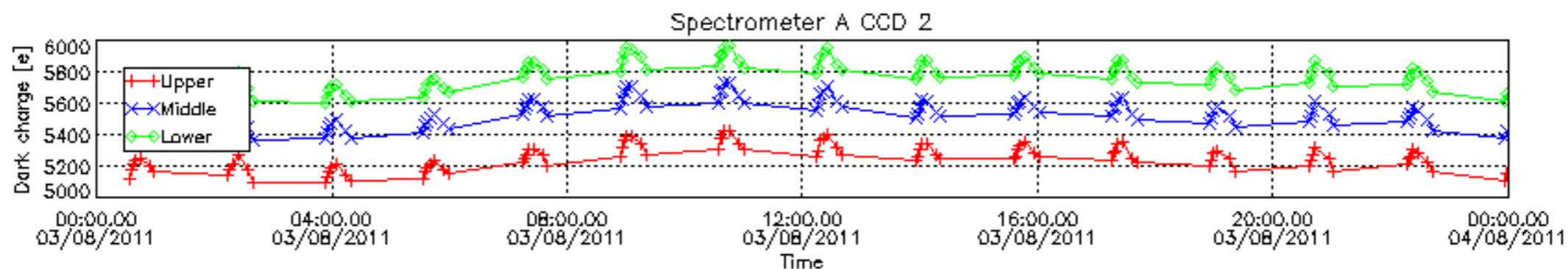
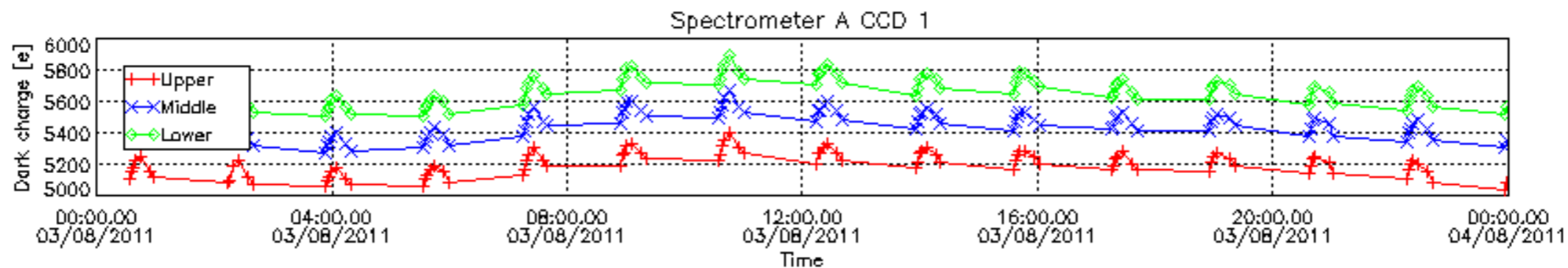


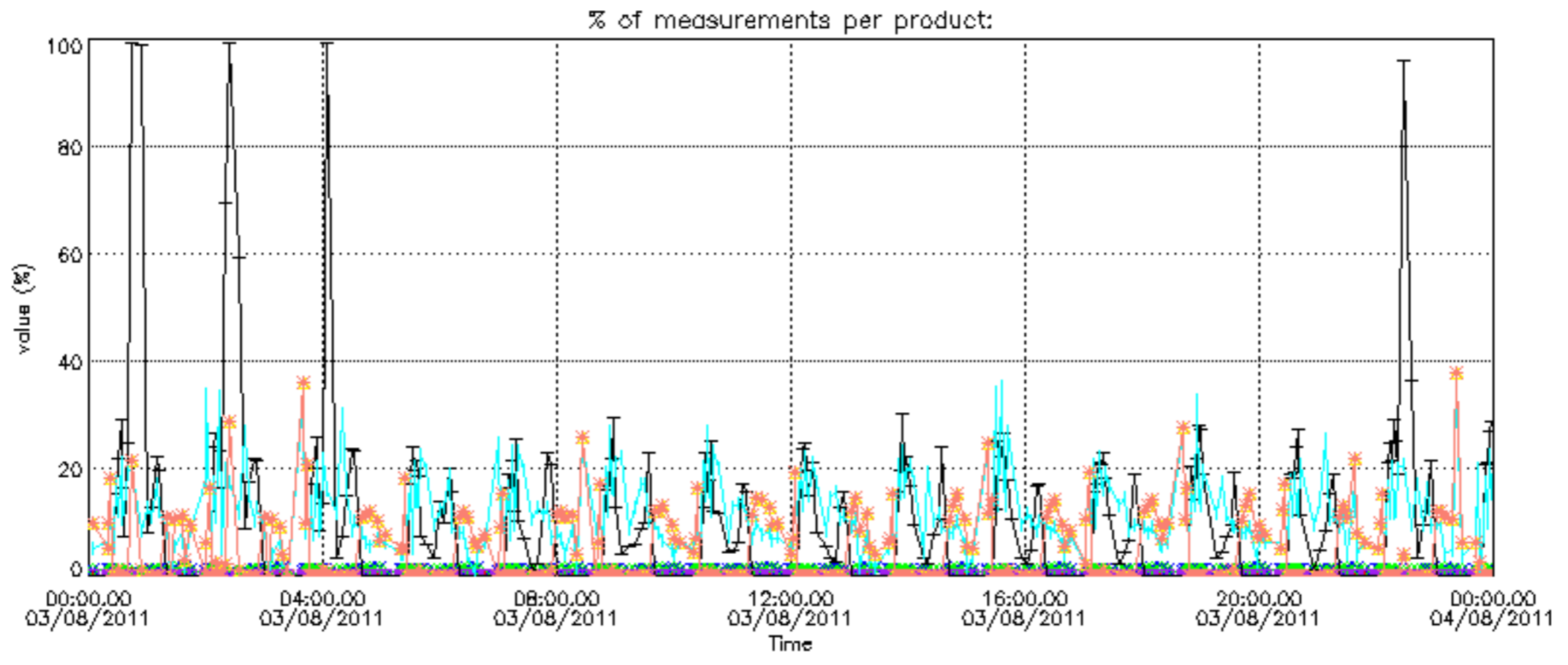
8. Auxiliary Data Files used for the production reported in section 2.4

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.

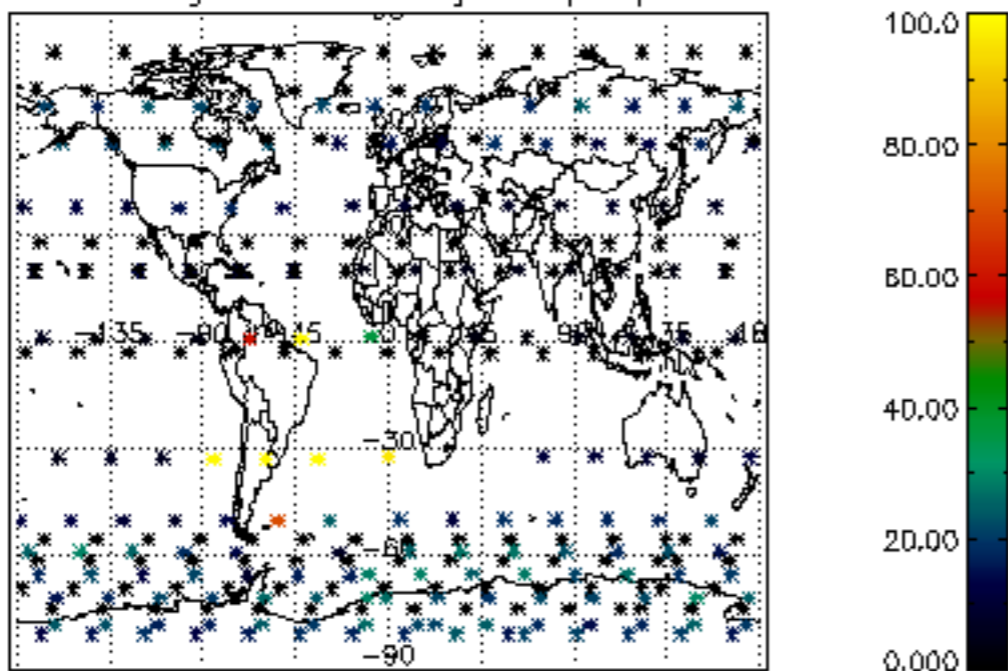
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110727_140829_20110725_000000_20500101_000000	1	03-AUG-2011 00:04:15
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110803_080732_20110801_000000_20500101_000000	107	03-AUG-2011 08:04:31
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	03-AUG-2011 00:04:15
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-AUG-2011 00:04:15
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	03-AUG-2011 00:04:15
ECMWF_FILE	AUX_ECF_AXNECM20110802_062116_20110802_210000_20110803_090000	1	03-AUG-2011 00:04:15
ECMWF_FILE	AUX_ECF_AXNECM20110802_183619_20110803_030000_20110803_150000	46	03-AUG-2011 03:39:27
ECMWF_FILE	AUX_ECA_AXNECM20110803_062115_20110802_210000_20110803_090000	68	03-AUG-2011 05:19:41
ECMWF_FILE	AUX_ECF_AXNECM20110802_183619_20110803_030000_20110803_150000	107	03-AUG-2011 08:04:31
ECMWF_FILE	AUX_ECF_AXNECM20110803_062115_20110803_090000_20110803_210000	129	03-AUG-2011 09:44:45
ECMWF_FILE	AUX_ECF_AXNECM20110803_062116_20110803_150000_20110804_030000	216	03-AUG-2011 16:21:41
ECMWF_FILE	AUX_ECA_AXNECM20110803_181112_20110803_090000_20110803_210000	237	03-AUG-2011 17:54:34
ECMWF_FILE	AUX_ECF_AXNECM20110803_062116_20110803_150000_20110804_030000	258	03-AUG-2011 19:34:49
ECMWF_FILE	AUX_ECF_AXNECM20110803_062116_20110803_210000_20110804_090000	278	03-AUG-2011 21:11:58
OPTIONAL_ECMWF_FILE	MISSING	1	03-AUG-2011 00:04:15
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110802_102859_20110801_184921_20110811_210307	1	03-AUG-2011 00:04:15
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110803_102113_20110802_195251_20110812_202623	129	03-AUG-2011 09:44:45



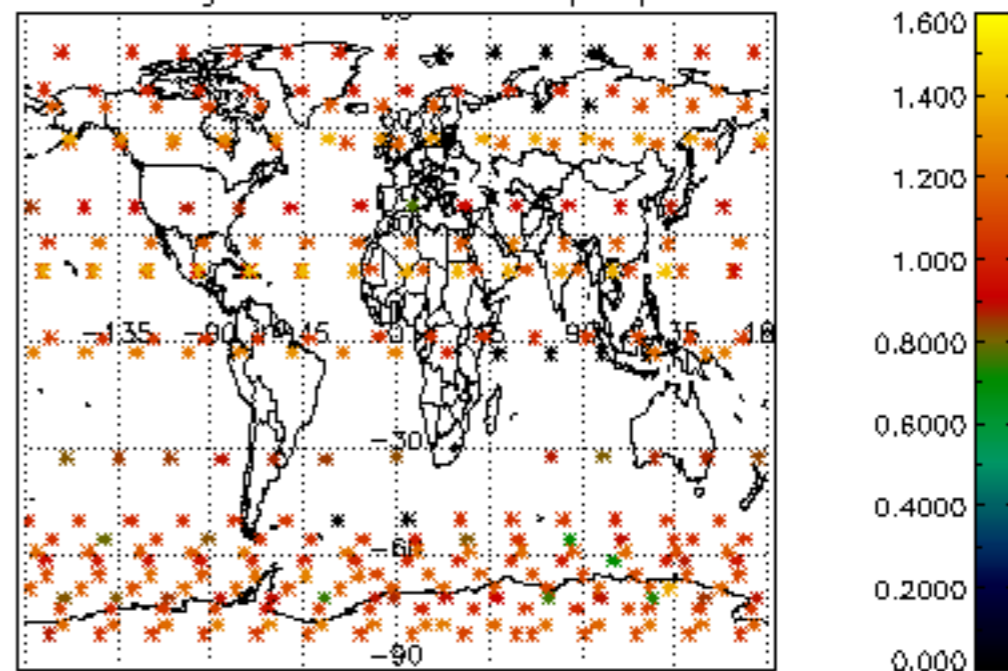




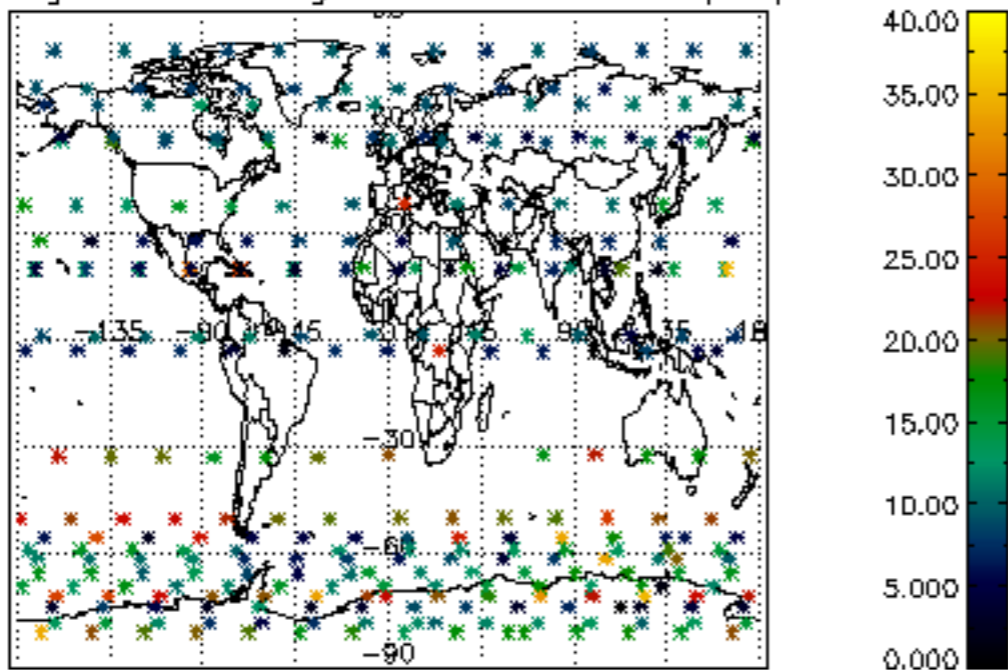
Percentage of cosmic ray hits per profile



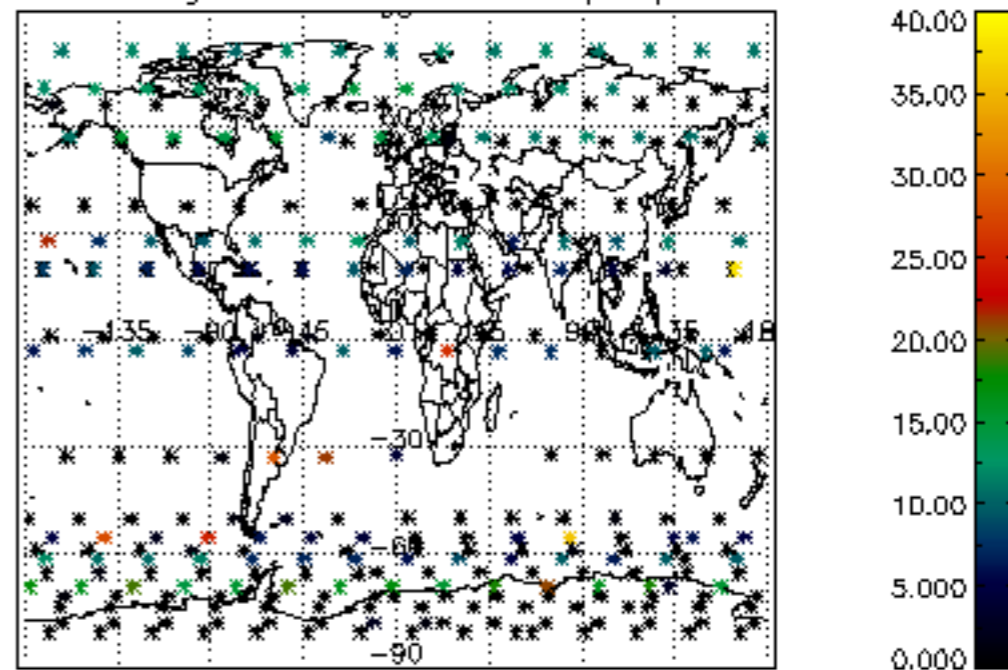
Percentage of datation errors per profile



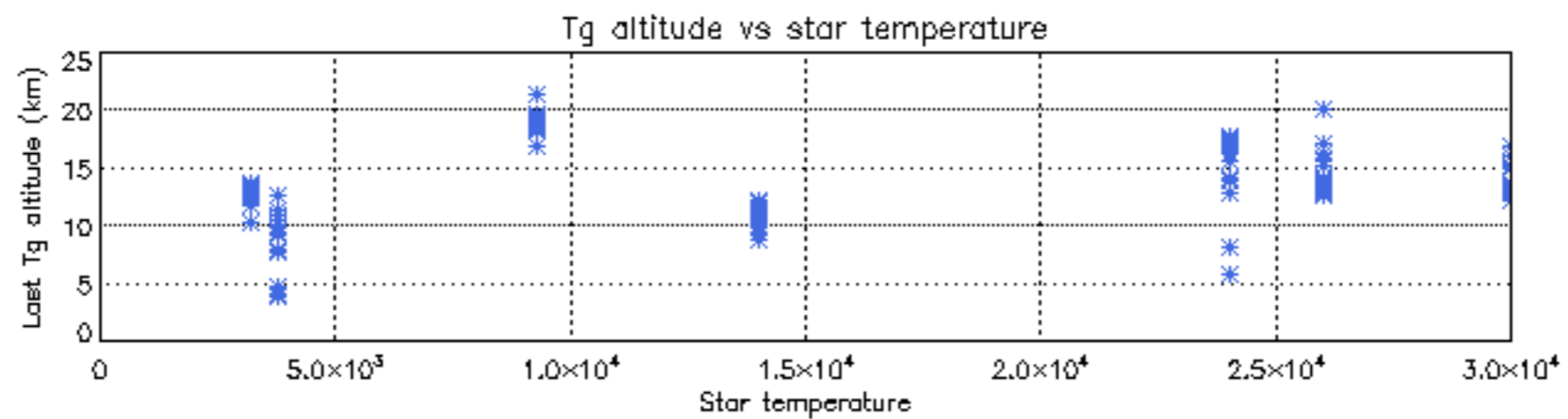
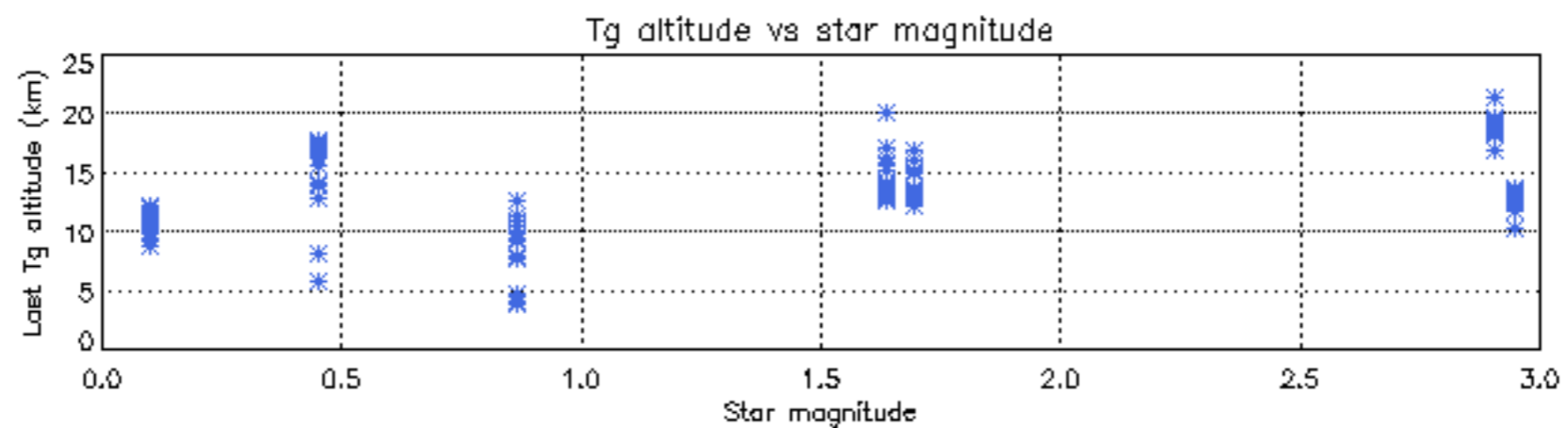
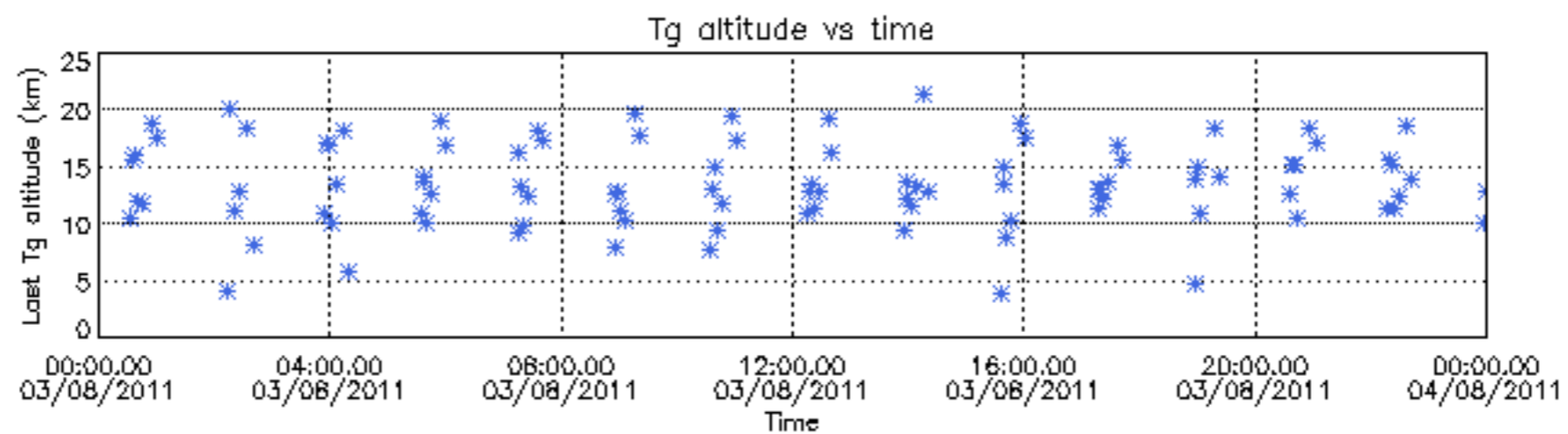
Percentage of star falling outside central band per profile



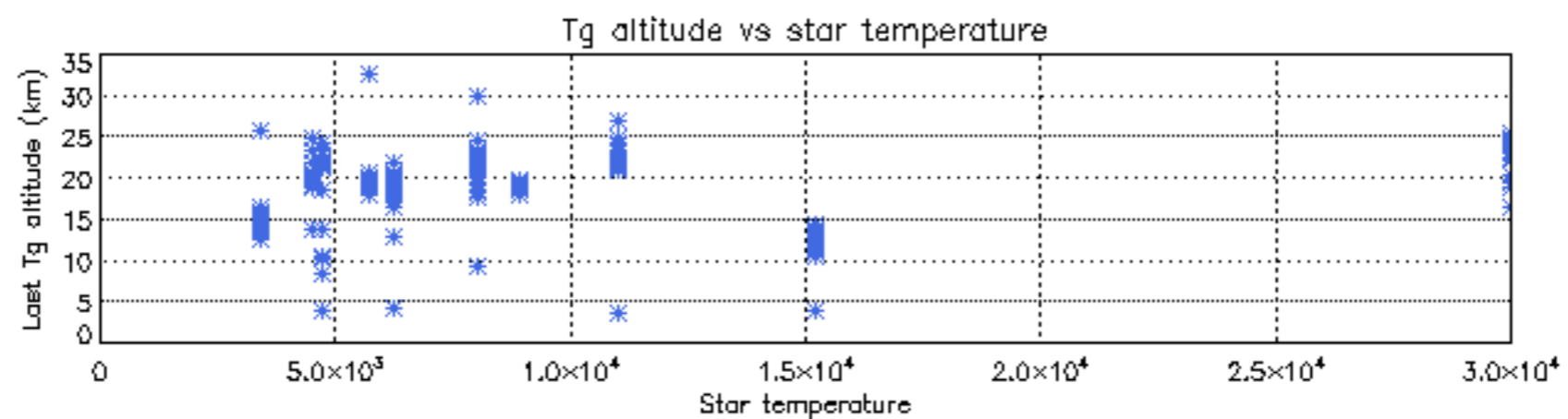
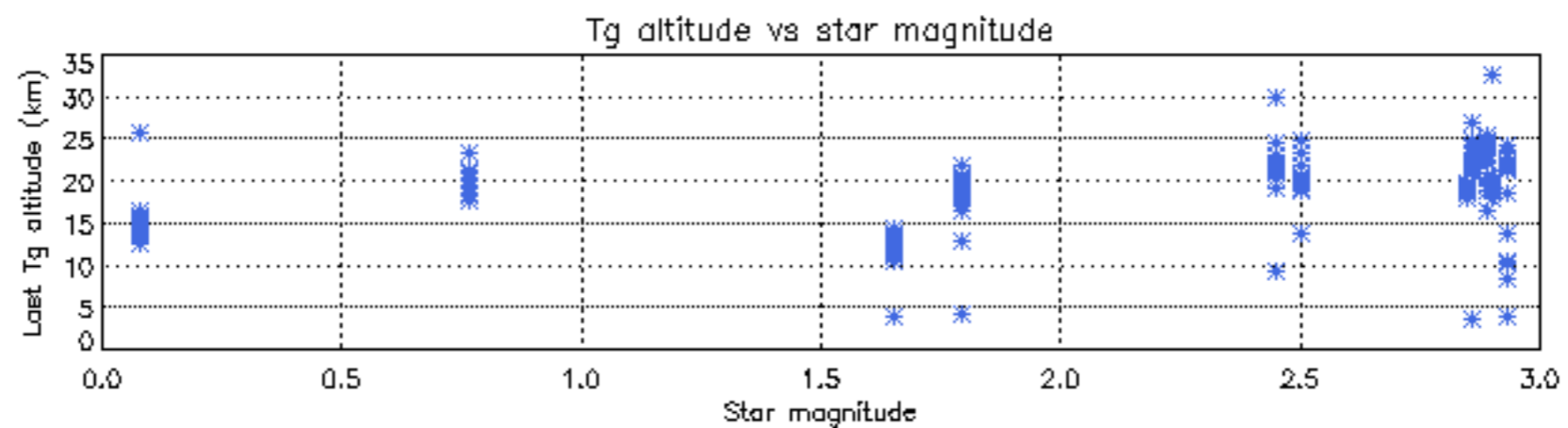
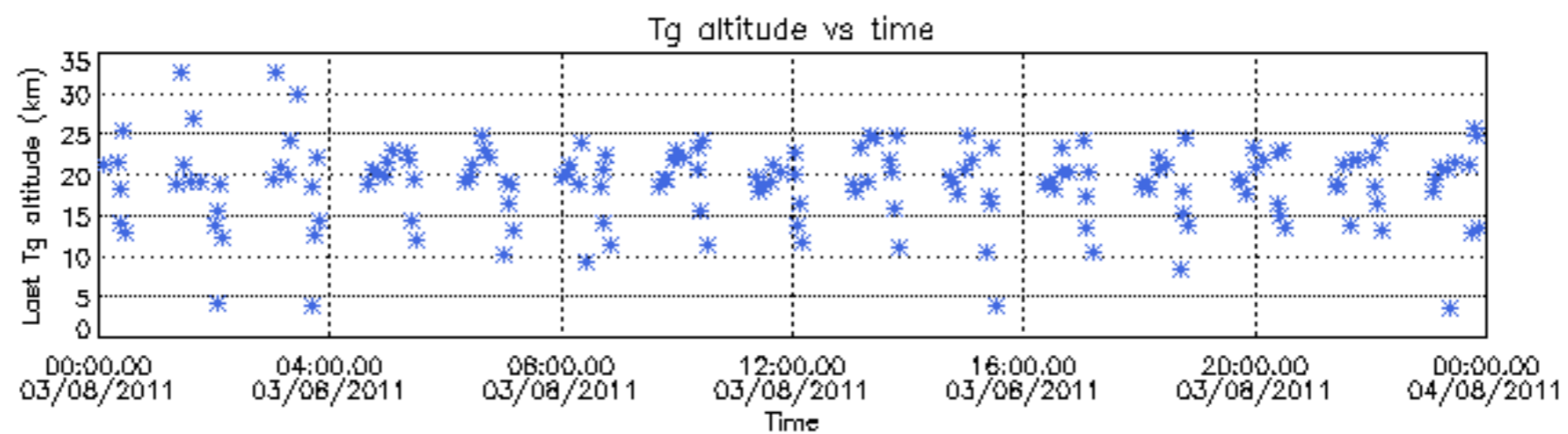
Percentage of saturation errors per profile

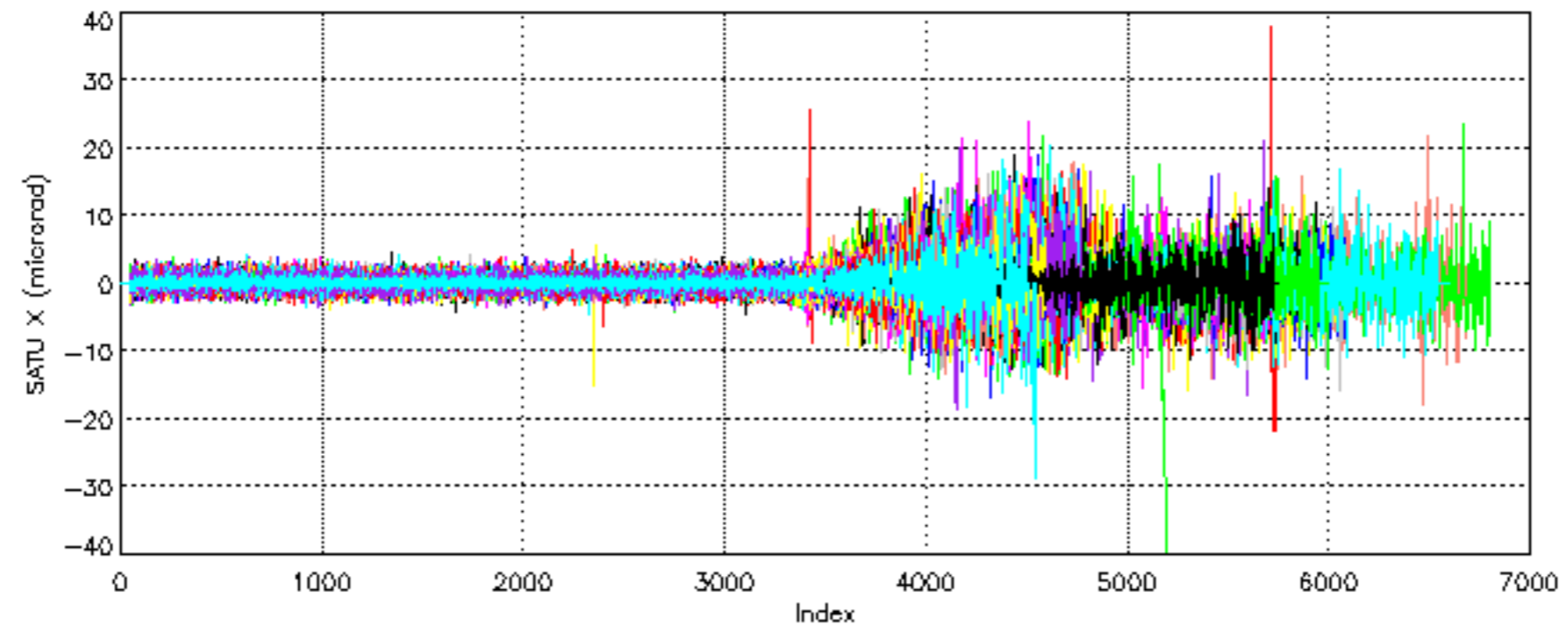


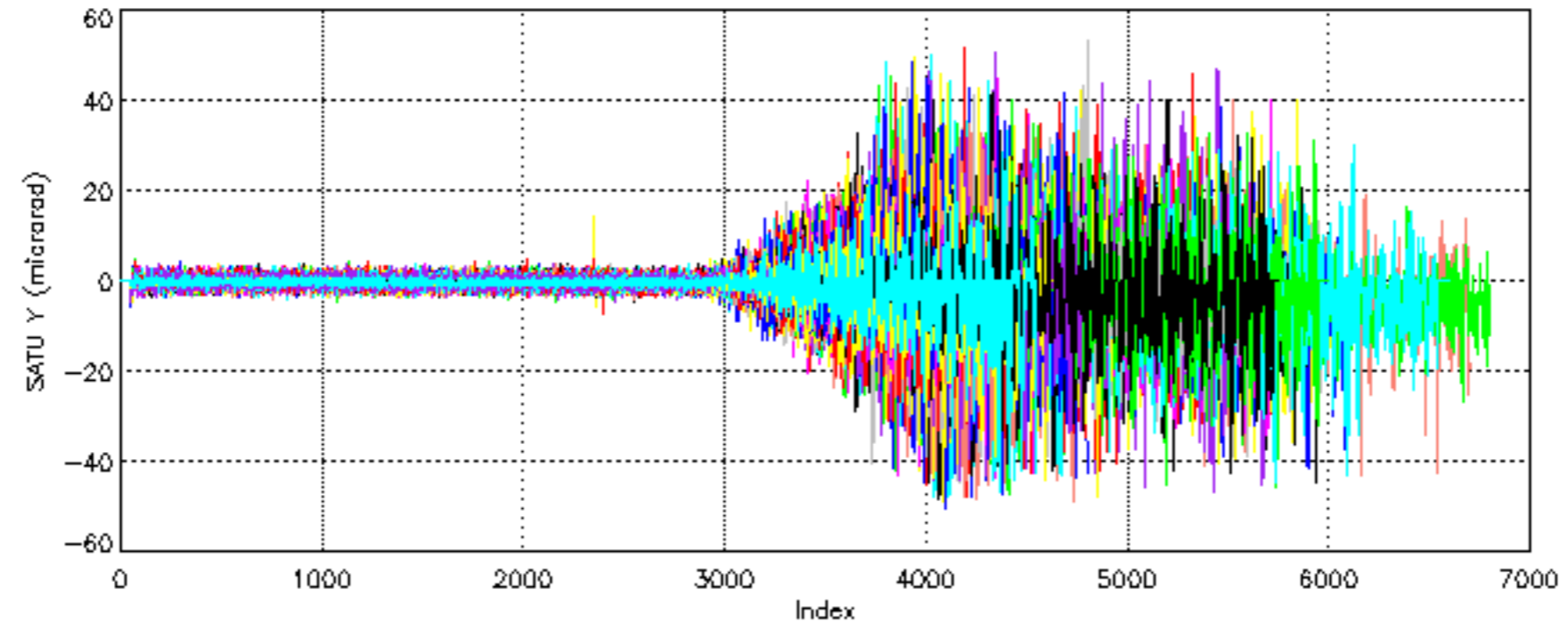
Tangent altitude at which the star is lost

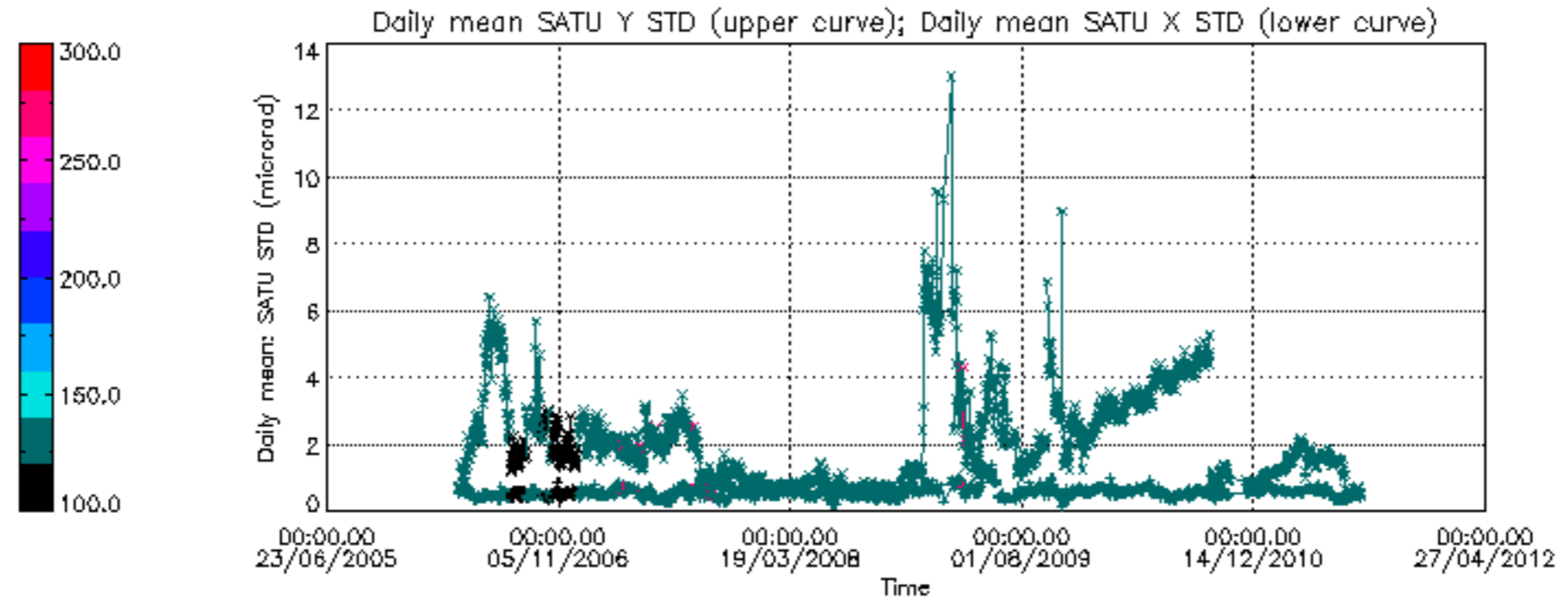


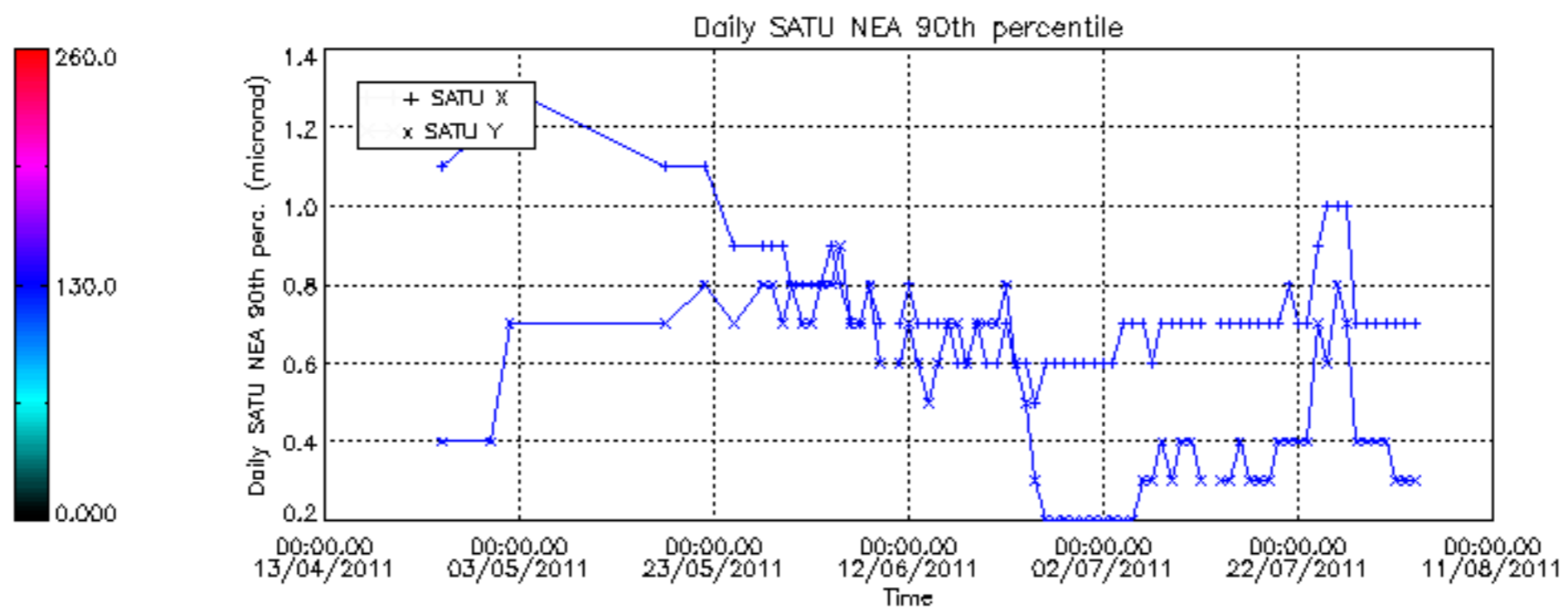
Tangent altitude at which the star is lost

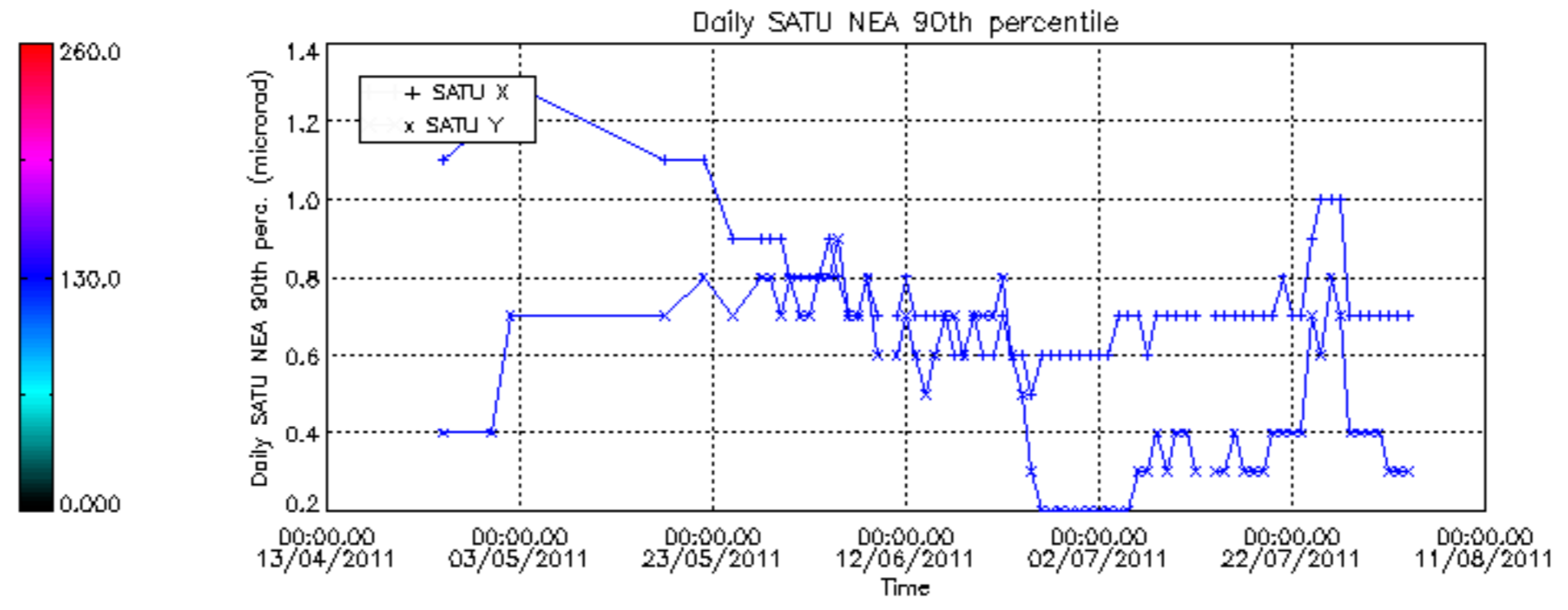












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 3; 920.3; 01-AUG-2011 10:43:31; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;49261
 4; 1107.1; 01-AUG-2011 10:46:38; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;49261
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 9; 2677.0; 01-AUG-2011 01:11:24; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71; 0;49255
10; 3068.6; 01-AUG-2011 01:17:56; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;49255
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12; 4052.6; 01-AUG-2011 01:34:20; Bright; 50.0; 35; 33Alp Per ; 1.79; 6250;occ; 100; 0;49255
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 7; 917.7; 01-AUG-2011 02:22:19; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;49256
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7; 1123.5; 04-AUG-2011 00:35:32; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;49298
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4; -1363.3; 10-AUG-2011 04:34:48; Dark ; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;49386
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7; -871.6; 10-AUG-2011 04:43:00; Dark ; 40.5; 125; 44Iot Ori ; 2.77; 30000;occ; 81; 0;49386
8; -788.5; 10-AUG-2011 04:44:23; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;49386
9; -668.8; 10-AUG-2011 04:46:23; Dark ; 46.0; 101; 11Alp Lep ; 2.58; 7000;occ; 92; 0;49386
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14; 978.2; 10-AUG-2011 05:13:50; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;49387
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11; 122.5; 10-AUG-2011 08:20:02; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;49389
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 7; 4176.6; 10-AUG-2011 09:27:36; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;49389
 8; 4339.7; 10-AUG-2011 09:30:19; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;49389
 9; 4516.9; 10-AUG-2011 09:33:17; Dark ; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;49389
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 5; 4176.5; 10-AUG-2011 11:07:50; Bright; 46.5; 6; 13Alp Aur ; 0.08; 3400;occ; 93; 0;49390
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16; 6416.8; 10-AUG-2011 11:45:10; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;49391
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18; 6993.7; 10-AUG-2011 11:54:47; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;49391
19; 7224.3; 10-AUG-2011 11:58:38; Dark ; 57.0; 18; 24Alp PsA ; 1.17; 9700;occ; 114; 0;49391
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 12; 4653.4; 10-AUG-2011 21:17:11; Dark ; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;49396
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 22; 5148.1; 10-AUG-2011 23:05:39; Dark ; 45.0; 125; 44Iot Ori ; 2.77; 30000;occ; 90; 0;49397
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10; 3246.5; 18-AUG-2011 21:00:32; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;49511
11; 4165.8; 18-AUG-2011 21:15:51; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;49511
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13; 4539.7; 18-AUG-2011 21:22:05; Dark ; 56.0; 28; 12Bet Tau ; 1.65; 15200;occ; 112; 0;49511
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13; 2479.3; 19-AUG-2011 00:08:12; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;49513
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2; -478.5; 23-AUG-2011 00:12:25; Dark ; 50.5; 139; 9Bet Lep ; 2.83; 5600;occ; 101; 0;49570
3; -356.7; 23-AUG-2011 00:14:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49570
4; 337.6; 23-AUG-2011 00:26:01; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;49571
5; 524.1; 23-AUG-2011 00:29:08; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;49571
6; 878.2; 23-AUG-2011 00:35:02; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;49571

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7; 1002.3; 23-AUG-2011 00:37:06; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;49571
8; 1284.1; 23-AUG-2011 00:41:48; Dark ; 52.0; 18; 24Alp PsA ; 1.17; 9700;occ; 104; 0;49571
9; 1593.6; 23-AUG-2011 00:46:57; Bright; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;49571
10; 1788.7; 23-AUG-2011 00:50:12; Bright; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79; 0;49571
11; 1890.8; 23-AUG-2011 00:51:55; Bright; 43.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 87; 0;49571
12; 2074.3; 23-AUG-2011 00:54:58; Bright; 40.5; 61; 8Eps Peg ; 2.10; 3900;occ; 81; 0;49571
13; 2473.7; 23-AUG-2011 01:01:37; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;49571
14; 2664.9; 23-AUG-2011 01:04:49; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;49571
15; 2975.1; 23-AUG-2011 01:09:59; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;49571
16; 3202.8; 23-AUG-2011 01:13:47; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;49571
17; 3335.3; 23-AUG-2011 01:15:59; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;49571
18; 4157.1; 23-AUG-2011 01:29:41; Bright; 54.5; 6; 13Alp Aur ; 0.08; 3400;occ; 109; 0;49571
19; 4351.6; 23-AUG-2011 01:32:55; Bright; 43.0; 107; 37The Aur ; 2.65; 11000;occ; 86; 0;49571
20; 4629.9; 23-AUG-2011 01:37:34; Dark ; 52.5; 151; 13Mu Gem ; 2.89; 3000;occ; 105; 0;49571
21; 4729.1; 23-AUG-2011 01:39:13; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;49571
22; 4963.6; 23-AUG-2011 01:43:07; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;49571
23; 5177.4; 23-AUG-2011 01:46:41; Dark ; 34.0; 30; 46Eps Ori ; 1.69; 30000;occ; 68; 0;49571

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2; -725.5; 23-AUG-2011 01:48:32; Dark ; 46.5; 1; 9Alp CMa ; -1.44; 11000;occ; 93; 0;49571
3; -632.4; 23-AUG-2011 01:50:05; Dark ; 69.0; 7; 19Bet Ori ; 0.10; 14000;occ; 138; 0;49571
4; -477.4; 23-AUG-2011 01:52:40; Dark ; 53.5; 139; 9Bet Lep ; 2.83; 5600;occ; 107; 0;49571
5; -355.8; 23-AUG-2011 01:54:42; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49571
6; 338.8; 23-AUG-2011 02:06:17; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;49572
7; 524.9; 23-AUG-2011 02:09:23; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;49572
8; 879.1; 23-AUG-2011 02:15:17; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;49572
9; 1002.9; 23-AUG-2011 02:17:21; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;49572
10; 1284.5; 23-AUG-2011 02:22:02; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;49572
11; 1593.8; 23-AUG-2011 02:27:11; Bright; 40.5; 142; 49Del Cap ; 2.85; 8900;occ; 81; 0;49572
12; 1788.7; 23-AUG-2011 02:30:26; Bright; 40.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 80; 0;49572
13; 1890.6; 23-AUG-2011 02:32:08; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;49572
14; 2074.1; 23-AUG-2011 02:35:12; Bright; 41.0; 61; 8Eps Peg ; 2.10; 3900;occ; 82; 0;49572
15; 2473.6; 23-AUG-2011 02:41:51; Bright; 38.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 76; 0;49572
16; 2664.8; 23-AUG-2011 02:45:03; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;49572
17; 2974.8; 23-AUG-2011 02:50:12; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;49572
18; 3202.1; 23-AUG-2011 02:54:00; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;49572
19; 3334.5; 23-AUG-2011 02:56:12; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;49572

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2; -1662.4; 23-AUG-2011 03:13:09; Bright; 41.5; 107; 37The Aur ; 2.65; 11000;occ; 83; 0;49572
3; -1383.8; 23-AUG-2011 03:17:48; Dark ; 50.0; 151; 13Mu Gem ; 2.89; 3000;occ; 100; 0;49572
4; -1284.5; 23-AUG-2011 03:19:27; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;49572
5; -1049.8; 23-AUG-2011 03:23:22; Dark ; 62.0; 14; 58Alp Ori ; 0.87; 3000;occ; 124; 0;49572
6; -835.6; 23-AUG-2011 03:26:56; Dark ; 57.5; 30; 46Eps Ori ; 1.69; 30000;occ; 115; 0;49572
7; -725.1; 23-AUG-2011 03:28:47; Dark ; 44.5; 1; 9Alp CMa ; -1.44; 11000;occ; 89; 0;49572
8; -631.3; 23-AUG-2011 03:30:20; Dark ; 61.5; 7; 19Bet Ori ; 0.10; 14000;occ; 123; 0;49572
9; -476.5; 23-AUG-2011 03:32:55; Dark ; 49.5; 139; 9Bet Lep ; 2.83; 5600;occ; 99; 0;49572
10; -354.9; 23-AUG-2011 03:34:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49572
11; 340.2; 23-AUG-2011 03:46:32; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;49573
12; 525.5; 23-AUG-2011 03:49:37; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;49573
13; 879.9; 23-AUG-2011 03:55:32; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;49573
14; 1003.3; 23-AUG-2011 03:57:35; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;49573
15; 1285.0; 23-AUG-2011 04:02:17; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;49573
16; 1594.0; 23-AUG-2011 04:07:26; Bright; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;49573
17; 1788.8; 23-AUG-2011 04:10:40; Bright; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79; 0;49573
18; 1890.6; 23-AUG-2011 04:12:22; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;49573
19; 2074.0; 23-AUG-2011 04:15:26; Bright; 41.0; 61; 8Eps Peg ; 2.10; 3900;occ; 82; 0;49573
20; 2473.7; 23-AUG-2011 04:22:05; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;49573
21; 2664.8; 23-AUG-2011 04:25:16; Bright; 53.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 106; 0;49573
22; 2974.7; 23-AUG-2011 04:30:26; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;49573
23; 3201.4; 23-AUG-2011 04:34:13; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;49573
24; 3333.8; 23-AUG-2011 04:36:26; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;49573

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2; -1662.5; 23-AUG-2011 04:53:23; Bright; 60.0; 107; 37The Aur ; 2.65; 11000;occ; 120; 0;49573
3; -1383.6; 23-AUG-2011 04:58:02; Dark ; 54.0; 151; 13Mu Gem ; 2.89; 3000;occ; 108; 0;49573
4; -1284.2; 23-AUG-2011 04:59:42; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;49573
5; -1049.3; 23-AUG-2011 05:03:36; Dark ; 62.0; 14; 58Alp Ori ; 0.87; 3000;occ; 124; 0;49573

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7; -724.7; 23-AUG-2011 05:09:01; Dark ; 49.0; 1; 9Alp CMA ;-1.44; 11000;occ; 98; 0;49573
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9; -475.7; 23-AUG-2011 05:13:10; Dark ; 51.5; 139; 9Bet Lep ; 2.83; 5600;occ; 103; 0;49573
10; -353.9; 23-AUG-2011 05:15:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49573
11; 341.2; 23-AUG-2011 05:26:47; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;49574
12; 526.1; 23-AUG-2011 05:29:52; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;49574
13; 880.5; 23-AUG-2011 05:35:46; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;49574
14; 1003.7; 23-AUG-2011 05:37:49; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;49574
15; 1285.2; 23-AUG-2011 05:42:31; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;49574
16; 1594.2; 23-AUG-2011 05:47:40; Bright; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;49574
17; 1788.9; 23-AUG-2011 05:50:55; Bright; 40.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 80; 0;49574
18; 1890.5; 23-AUG-2011 05:52:36; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;49574
19; 2073.8; 23-AUG-2011 05:55:40; Bright; 41.0; 61; 8Eps Peg ; 2.10; 3900;occ; 82; 0;49574
20; 2473.7; 23-AUG-2011 06:02:19; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;49574
21; 2664.8; 23-AUG-2011 06:05:30; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;49574
22; 2974.4; 23-AUG-2011 06:10:40; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;49574
23; 3200.6; 23-AUG-2011 06:14:26; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;49574
24; 3333.1; 23-AUG-2011 06:16:39; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49574
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2; 1789.1; 23-AUG-2011 14:12:05; Bright; 39.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 78; 0;49579
3; 1889.9; 23-AUG-2011 14:13:45; Bright; 43.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 87; 0;49579
4; 2073.1; 23-AUG-2011 14:16:49; Bright; 41.0; 61; 8Eps Peg ; 2.10; 3900;occ; 82; 0;49579
5; 2473.1; 23-AUG-2011 14:23:29; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;49579
6; 2664.4; 23-AUG-2011 14:26:40; Bright; 38.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 77; 0;49579
7; 2973.6; 23-AUG-2011 14:31:49; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;49579
8; 3197.2; 23-AUG-2011 14:35:33; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;49579
9; 3329.5; 23-AUG-2011 14:37:45; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;49579
10; 4155.8; 23-AUG-2011 14:51:31; Bright; 54.0; 6; 13Alp Aur ; 0.08; 3400;occ; 108; 0;49579
11; 4352.0; 23-AUG-2011 14:54:47; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;49579
12; 4632.1; 23-AUG-2011 14:59:28; Dark ; 50.0; 151; 13Mu Gem ; 2.89; 3000;occ; 100; 0;49579
13; 4731.7; 23-AUG-2011 15:01:07; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;49579
14; 4968.2; 23-AUG-2011 15:05:04; Dark ; 64.5; 14; 58Alp Ori ; 0.87; 3000;occ; 129; 0;49579
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16; 5292.0; 23-AUG-2011 15:10:28; Dark ; 46.5; 1; 9Alp CMA ;-1.44; 11000;occ; 93; 0;49579
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19; 5665.7; 23-AUG-2011 15:16:41; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49579
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21; 6543.9; 23-AUG-2011 15:31:19; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;49580
22; 6898.7; 23-AUG-2011 15:37:14; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;49580
23; 7019.8; 23-AUG-2011 15:39:15; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;49580
24; 7301.1; 23-AUG-2011 15:43:57; Dark ; 21.0; 18; 24Alp PsA ; 1.17; 9700;occ; 42; 0;49580
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2; 1594.9; 23-AUG-2011 17:29:18; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;49581
3; 1789.1; 23-AUG-2011 17:32:33; Bright; 40.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 80; 0;49581
4; 1889.8; 23-AUG-2011 17:34:13; Bright; 42.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 85; 0;49581
5; 2072.7; 23-AUG-2011 17:37:16; Bright; 41.5; 61; 8Eps Peg ; 2.10; 3900;occ; 83; 0;49581
6; 2473.0; 23-AUG-2011 17:43:57; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;49581
7; 2664.2; 23-AUG-2011 17:47:08; Bright; 51.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 103; 0;49581
8; 2973.3; 23-AUG-2011 17:52:17; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;49581
9; 3195.6; 23-AUG-2011 17:55:59; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;49581
10; 3328.0; 23-AUG-2011 17:58:12; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;49581
11; 4155.3; 23-AUG-2011 18:11:59; Bright; 55.0; 6; 13Alp Aur ; 0.08; 3400;occ; 110; 0;49581
12; 4352.0; 23-AUG-2011 18:15:15; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;49581
13; 4632.6; 23-AUG-2011 18:19:56; Dark ; 52.0; 151; 13Mu Gem ; 2.89; 3000;occ; 104; 0;49581
14; 4732.2; 23-AUG-2011 18:21:36; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;49581
15; 4969.5; 23-AUG-2011 18:25:33; Dark ; 64.5; 14; 58Alp Ori ; 0.87; 3000;occ; 129; 0;49581
16; 5185.9; 23-AUG-2011 18:29:09; Dark ; 55.0; 30; 46Eps Ori ; 1.69; 30000;occ; 110; 0;49581
17; 5293.0; 23-AUG-2011 18:30:57; Dark ; 48.5; 1; 9Alp CMA ;-1.44; 11000;occ; 97; 0;49581
18; 5392.7; 23-AUG-2011 18:32:36; Dark ; 44.0; 7; 19Bet Ori ; 0.10; 14000;occ; 88; 0;49581
19; 5485.5; 23-AUG-2011 18:34:09; Dark ; 50.0; 101; 11Alp Lep ; 2.58; 7000;occ; 100; 0;49581
20; 5667.6; 23-AUG-2011 18:37:11; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49581
21; 6365.1; 23-AUG-2011 18:48:49; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;49582
22; 6545.4; 23-AUG-2011 18:51:49; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;49582
23; 6900.1; 23-AUG-2011 18:57:44; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;49582

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3; 887.5; 23-AUG-2011 22:18:13; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;49584
4; 1007.5; 23-AUG-2011 22:20:13; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;49584
5; 1288.6; 23-AUG-2011 22:24:54; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;49584
6; 1595.2; 23-AUG-2011 22:30:01; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;49584
7; 1789.2; 23-AUG-2011 22:33:15; Bright; 39.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 78; 0;49584
8; 1889.4; 23-AUG-2011 22:34:55; Bright; 44.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 88; 0;49584
9; 2072.3; 23-AUG-2011 22:37:58; Bright; 40.5; 61; 8Eps Peg ; 2.10; 3900;occ; 81; 0;49584
10; 2472.9; 23-AUG-2011 22:44:38; Bright; 38.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 76; 0;49584
11; 2663.9; 23-AUG-2011 22:47:49; Bright; 34.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 69; 0;49584
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13; 3193.5; 23-AUG-2011 22:56:39; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;49584
14; 3325.7; 23-AUG-2011 22:58:51; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;49584
15; 4154.8; 23-AUG-2011 23:12:40; Bright; 52.5; 6; 13Alp Aur ; 0.08; 3400;occ; 105; 0;49584
16; 4351.9; 23-AUG-2011 23:15:57; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;49584
17; 4633.1; 23-AUG-2011 23:20:39; Dark ; 51.0; 151; 13Mu Gem ; 2.89; 3000;occ; 102; 0;49584
18; 4733.0; 23-AUG-2011 23:22:18; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;49584
19; 4971.1; 23-AUG-2011 23:26:17; Dark ; 54.5; 14; 58Alp Ori ; 0.87; 3000;occ; 109; 0;49584
20; 5188.2; 23-AUG-2011 23:29:54; Dark ; 52.5; 30; 46Eps Ori ; 1.69; 30000;occ; 105; 0;49584
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3; -485.2; 26-AUG-2011 21:45:21; Dark ; 52.0; 101; 11Alp Lep ; 2.58; 7000;occ; 104; 0;49626
4; -302.0; 26-AUG-2011 21:48:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49626
5; 406.2; 26-AUG-2011 22:00:13; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;49627
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7; 916.4; 26-AUG-2011 22:08:43; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;49627
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11; 1885.8; 26-AUG-2011 22:24:52; Bright; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;49627
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13; 2518.3; 26-AUG-2011 22:35:25; Bright; 44.0; 164; 44Eta Peg ; 2.95; 5400;occ; 88; 0;49627
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17; 4146.6; 26-AUG-2011 23:02:33; Bright; 57.0; 6; 13Alp Aur ; 0.08; 3400;occ; 114; 0;49627
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8; 1302.5; 26-AUG-2011 23:55:23; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;49628

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 11; 1885.8; 27-AUG-2011 00:05:06; Bright; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;49628
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 13; 2517.6; 27-AUG-2011 00:15:38; Bright; 46.5; 164; 44Eta Peg ; 2.95; 5400;occ; 93; 0;49628
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 23; 5228.3; 27-AUG-2011 01:00:48; Dark ; 29.0; 30; 46Eps Ori ; 1.69; 30000;occ; 58; 0;49628
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6;	561.3;	27-AUG-2011	01:23:15;	Dark	;	44.5;	9;	Alp Eri	;	0.45;	24000;occ;	89;	0;	49629
7;	917.6;	27-AUG-2011	01:29:12;	Dark	;	52.0;	84;	Alp Phe	;	2.40;	4500;occ;	104;	0;	49629
8;	1023.3;	27-AUG-2011	01:30:57;	Dark	;	55.0;	63;	Bet Gru	;	2.15;	2800;occ;	110;	0;	49629
9;	1302.8;	27-AUG-2011	01:35:37;	Dark	;	46.5;	18;	24Alp PsA	;	1.17;	9700;occ;	93;	0;	49629
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11;	1791.5;	27-AUG-2011	01:43:46;	Bright;	;	39.5;	154;	22Bet Aqr	;	2.90;	5700;occ;	79;	0;	49629
12;	1885.8;	27-AUG-2011	01:45:20;	Bright;	;	41.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	83;	0;	49629
13;	2066.7;	27-AUG-2011	01:48:21;	Bright;	;	39.0;	61;	8Eps Peg	;	2.10;	3900;occ;	78;	0;	49629
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15;	2965.9;	27-AUG-2011	02:03:20;	Bright;	;	37.0;	89;	5Alp Cep	;	2.45;	8000;occ;	74;	0;	49629
16;	3162.6;	27-AUG-2011	02:06:37;	Bright;	;	44.0;	74;	11Bet Cas	;	2.27;	6600;occ;	88;	0;	49629
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18;	4146.2;	27-AUG-2011	02:23:00;	Bright;	;	56.0;	6;	13Alp Aur	;	0.08;	3400;occ;	112;	0;	49629
19;	4353.6;	27-AUG-2011	02:26:28;	Bright;	;	43.5;	107;	37The Aur	;	2.65;	11000;occ;	87;	0;	49629
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21;	4747.6;	27-AUG-2011	02:33:02;	Dark	;	49.5;	44;	24Gam Gem	;	1.93;	11000;occ;	99;	0;	49629
22;	4835.6;	27-AUG-2011	02:34:30;	Dark	;	39.5;	153;	3Bet CMi	;	2.89;	13100;occ;	79;	0;	49629
23;	4999.8;	27-AUG-2011	02:37:14;	Dark	;	66.0;	14;	58Alp Ori	;	0.87;	3000;occ;	132;	0;	49629
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25;	5316.7;	27-AUG-2011	02:42:31;	Dark	;	48.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	96;	0;	49629
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27;	5715.0;	27-AUG-2011	02:49:09;	Dark	;	59.0;	0;		;	0.00;	0;occ;	118;	0;	49629
28;	6424.0;	27-AUG-2011	03:00:58;	Dark	;	54.0;	157;	The1Eri	;	2.91;	9300;occ;	108;	0;	49630
29;	6575.9;	27-AUG-2011	03:03:30;	Dark	;	47.0;	9;	Alp Eri	;	0.45;	24000;occ;	94;	0;	49630
30;	6932.2;	27-AUG-2011	03:09:26;	Dark	;	52.0;	84;	Alp Phe	;	2.40;	4500;occ;	104;	0;	49630
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33;	7615.0;	27-AUG-2011	03:20:49;	Dark	;	49.0;	142;	49Del Cap	;	2.85;	8900;occ;	98;	0;	49630
34;	7899.8;	27-AUG-2011	03:25:34;	Bright;	;	41.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	83;	0;	49630
35;	8080.7;	27-AUG-2011	03:28:35;	Bright;	;	40.0;	61;	8Eps Peg	;	2.10;	3900;occ;	80;	0;	49630
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39;	9306.3;	27-AUG-2011	03:49:00;	Bright;	;	47.0;	76;	27Gam Cas	;	2.30;	30000;occ;	94;	0;	49630
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3;	-1368.3;	27-AUG-2011	04:11:34;	Dark	;	57.0;	151;	13Mu Gem	;	2.89;	3000;occ;	114;	0;	49630
4;	-1265.9;	27-AUG-2011	04:13:16;	Dark	;	49.0;	44;	24Gam Gem	;	1.93;	11000;occ;	98;	0;	49630
5;	-1178.2;	27-AUG-2011	04:14:44;	Dark	;	39.5;	153;	3Bet CMi	;	2.89;	13100;occ;	79;	0;	49630
6;	-1013.5;	27-AUG-2011	04:17:29;	Dark	;	60.0;	14;	58Alp Ori	;	0.87;	3000;occ;	120;	0;	49630
7;	-696.8;	27-AUG-2011	04:22:45;	Dark	;	49.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	98;	0;	49630
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 4; 1885.2; 27-AUG-2011 16:47:25; Bright; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;49638
 5; 2065.8; 27-AUG-2011 16:50:26; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;49638
 6; 2511.8; 27-AUG-2011 16:57:52; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;49638
 7; 2964.8; 27-AUG-2011 17:05:25; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;49638
 8; 3156.5; 27-AUG-2011 17:08:36; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;49638
 9; 3286.6; 27-AUG-2011 17:10:46; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;49638
 10; 4144.3; 27-AUG-2011 17:25:04; Bright; 32.0; 6; 13Alp Aur ; 0.08; 3400;occ; 64; 0;49638
 11; 4353.9; 27-AUG-2011 17:28:34; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;49638
 12; 4648.1; 27-AUG-2011 17:33:28; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;49638
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 14; 4838.4; 27-AUG-2011 17:36:38; Dark ; 40.0; 153; 3Bet CMI ; 2.89; 13100;occ; 80; 0;49638
 15; 5006.0; 27-AUG-2011 17:39:26; Dark ; 71.5; 14; 58Alp Ori ; 0.87; 3000;occ; 143; 0;49638
 16; 5321.5; 27-AUG-2011 17:44:41; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;49638
 17; 5541.2; 27-AUG-2011 17:48:21; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;49638
 18; 5724.5; 27-AUG-2011 17:51:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49638
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 9; 3284.9; 27-AUG-2011 20:31:13; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;49640
 10; 4143.7; 27-AUG-2011 20:45:32; Bright; 26.0; 6; 13Alp Aur ; 0.08; 3400;occ; 52; 0;49640
 11; 4353.8; 27-AUG-2011 20:49:02; Bright; 46.0; 107; 37The Aur ; 2.65; 11000;occ; 92; 0;49640
 12; 4648.6; 27-AUG-2011 20:53:57; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;49640
 13; 4751.3; 27-AUG-2011 20:55:39; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;49640
 14; 4838.8; 27-AUG-2011 20:57:07; Dark ; 40.5; 153; 3Bet CMI ; 2.89; 13100;occ; 81; 0;49640
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 5; 569.5; 27-AUG-2011 23:06:25; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;49642
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 9; 1792.0; 27-AUG-2011 23:26:48; Bright; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79; 0;49642
 10; 1884.9; 27-AUG-2011 23:28:21; Bright; 41.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 83; 0;49642
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 14; 3153.7; 27-AUG-2011 23:49:29; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;49642
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 20; 4839.3; 28-AUG-2011 00:17:35; Dark ; 40.0; 153; 3Bet CMI ; 2.89; 13100;occ; 80; 0;49642
 21; 5008.6; 28-AUG-2011 00:20:24; Dark ; 67.5; 14; 58Alp Ori ; 0.87; 3000;occ; 135; 0;49642
 22; 5240.2; 28-AUG-2011 00:24:16; Dark ; 52.0; 33; 50Zet Ori ; 1.77; 30000;occ; 104; 0;49642
 23; 5323.3; 28-AUG-2011 00:25:39; Dark ; 27.5; 1; 9Alp CMA ; -1.44; 11000;occ; 55; 0;49642

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 5; 2065.6; 27-AUG-2011 18:30:40; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;49639

6; 2511.1; 27-AUG-2011 18:38:05; Bright; 47.0; 164; 44Eta Peg ; 2.95; 5400;occ; 94; 0;49639
7; 2964.6; 27-AUG-2011 18:45:39; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;49639
8; 3155.8; 27-AUG-2011 18:48:50; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;49639
9; 3285.7; 27-AUG-2011 18:51:00; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;49639
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16; 5322.1; 27-AUG-2011 19:24:56; Dark ; 51.5; 1; 9Alp CMA ; -1.44; 11000;occ; 103; 0;49639
17; 5542.2; 27-AUG-2011 19:28:36; Dark ; 53.5; 101; 11Alp Lep ; 2.58; 7000;occ; 107; 0;49639
18; 5725.6; 27-AUG-2011 19:31:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49639
19; 6436.2; 27-AUG-2011 19:43:30; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;49640
20; 6582.2; 27-AUG-2011 19:45:56; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;49640
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5; 427.1; 28-AUG-2011 02:24:31; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;49644
6; 570.8; 28-AUG-2011 02:26:54; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;49644
7; 927.0; 28-AUG-2011 02:32:51; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;49644
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9; 1602.8; 28-AUG-2011 02:44:06; Dark ; 50.5; 142; 49Del Cap ; 2.85; 8900;occ; 101; 0;49644
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13; 2508.3; 28-AUG-2011 02:59:12; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;49644
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6; -1003.9; 28-AUG-2011 03:40:54; Dark ; 72.5; 14; 58Alp Ori ; 0.87; 3000;occ; 145; 0;49644
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14; 1307.8; 28-AUG-2011 04:19:25; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;49645
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16; 1792.5; 28-AUG-2011 04:27:30; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;49645
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18; 2065.4; 28-AUG-2011 04:32:03; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;49645
19; 2508.0; 28-AUG-2011 04:39:26; Bright; 47.0; 164; 44Eta Peg ; 2.95; 5400;occ; 94; 0;49645
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8; -688.8; 28-AUG-2011 05:26:23; Dark ; 51.0; 1; 9Alp CMA ; -1.44; 11000;occ; 102; 0;49645
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11; 429.5; 28-AUG-2011 05:45:01; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;49646


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14; 1308.1; 28-AUG-2011 05:59:40; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;49646
15; 1603.1; 28-AUG-2011 06:04:35; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;49646
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13; 929.1; 28-AUG-2011 07:33:35; Dark ; 60.5; 84; Alp Phe ; 2.40; 4500;occ; 121; 0;49647
14; 1308.4; 28-AUG-2011 07:39:54; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;49647
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3; 1613.7; 30-AUG-2011 19:53:22; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;49683
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8; 3127.5; 30-AUG-2011 20:18:36; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;49683
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