

GOMOS Daily Report 08-SEP-2009

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	11SEP2009 04:44:59
Data source version	GOMOS/5.00
Start time of products	08SEP2009 00:09:42
Stop time of products	08SEP2009 23:59:08
Store outputs in DB	Yes
Nb of level 1b prods	79
Nb of prods with errors	0

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

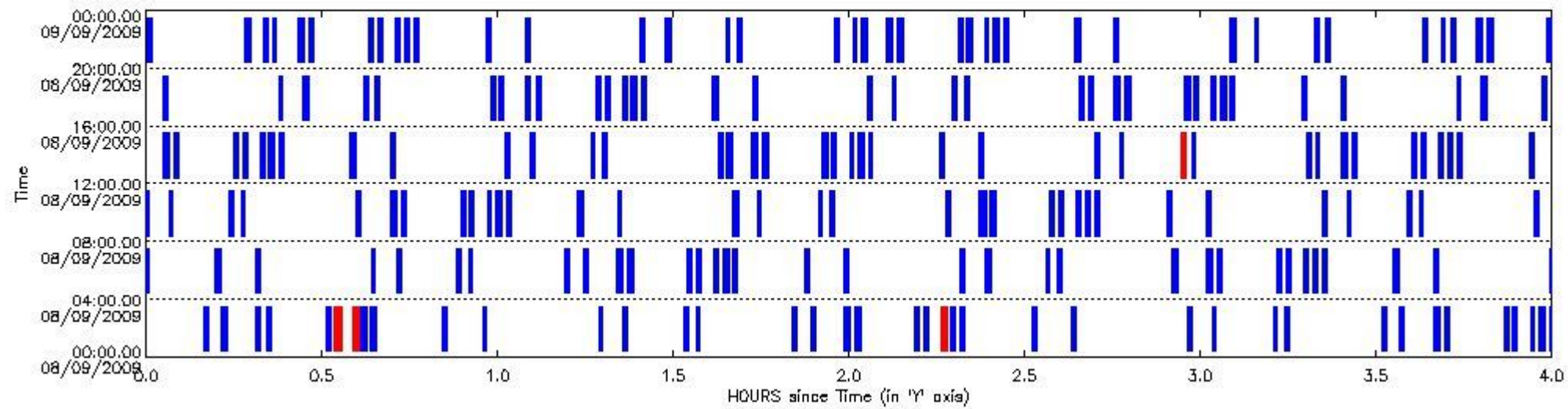
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
08-SEP-2009 00:32:07	2BetCMa	47	39334
08-SEP-2009 00:35:10	1ZetCMa	177	39334
08-SEP-2009 02:15:47	1ZetCMa	177	39335
08-SEP-2009 14:56:34	11BetCas	74	39343

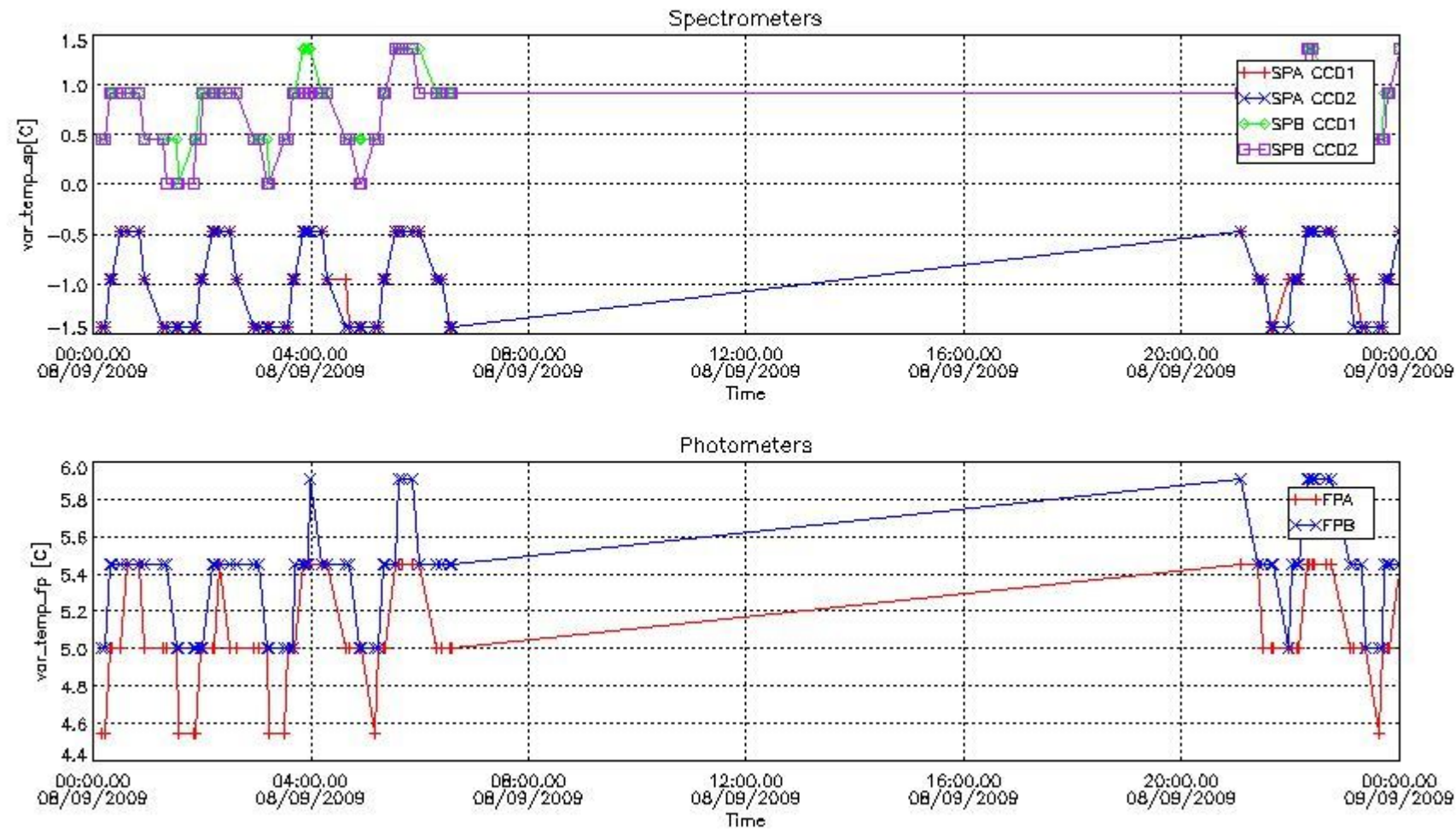
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090908_000942_000000482082_00202_39334_4918.N1	08-SEP-2009 00:09:42	Bright	48.000	42	34Bet Aur	1.9000	10200.	96	39334	No
2	GOM_TRA_1PNPDE20090908_001247_000000552082_00202_39334_4919.N1	08-SEP-2009 00:12:47	Bright	54.500	107	37The Aur	2.6490	11000.	109	39334	No
3	GOM_TRA_1PNPDE20090908_001833_000000622082_00202_39334_4920.N1	08-SEP-2009 00:18:33	Twilight	61.500	151	13Mu Gem	2.8900	3000.0	123	39334	No
4	GOM_TRA_1PNPDE20090908_002026_000000542082_00202_39334_4921.N1	08-SEP-2009 00:20:26	Twilight	54.000	44	24Gam Gem	1.9280	11000.	108	39334	No
5	GOM_TRA_1PNPDE20090908_003034_000000542082_00202_39334_5070.N1	08-SEP-2009 00:30:34	Dark	53.500	1	9Alp CMa	-1.4400	11000.	107	39334	No
6	GOM_TRA_1PNPDE20090908_003819_000000502082_00202_39334_5071.N1	08-SEP-2009 00:38:19	Dark	50.000	108	Alp Col	2.6520	15200.	100	39334	No
7	GOM_TRA_1PNPDE20090908_005030_000000562082_00203_39335_5072.N1	08-SEP-2009 00:50:30	Dark	56.000	157	The1Eri	2.9060	9300.0	112	39335	No

8	GOM_TRA_1PNPDE20090908_005721_000000482082_00203_39335_5073.N1	08-SEP-2009 00:57:21	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	39335	No
9	GOM_TRA_1PNPDE20090908_011712_000000442082_00203_39335_5074.N1	08-SEP-2009 01:17:12	Bright	43.500	90	54Alp Peg	2.4870	11000.	87	39335	No
10	GOM_TRA_1PNPDE20090908_012126_000000402082_00203_39335_5075.N1	08-SEP-2009 01:21:26	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39335	No
11	GOM_TRA_1PNPDE20090908_013149_000000422082_00203_39335_5076.N1	08-SEP-2009 01:31:49	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	39335	No
12	GOM_TRA_1PNPDE20090908_013349_000000452082_00203_39335_5077.N1	08-SEP-2009 01:33:49	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	39335	No
13	GOM_TRA_1PNPDE20090908_015017_000000492082_00203_39335_5078.N1	08-SEP-2009 01:50:17	Bright	48.500	42	34Bet Aur	1.9000	10200.	97	39335	No
14	GOM_TRA_1PNPDE20090908_015323_000000512082_00203_39335_5079.N1	08-SEP-2009 01:53:23	Bright	50.500	107	37The Aur	2.6490	11000.	101	39335	No
15	GOM_TRA_1PNPDE20090908_015909_000000622082_00203_39335_5080.N1	08-SEP-2009 01:59:09	Twi_and_stray	61.500	151	13Mu Gem	2.8900	3000.0	123	39335	No
16	GOM_TRA_1PNPDE20090908_020103_000000592082_00203_39335_5081.N1	08-SEP-2009 02:01:03	Twi_and_stray	58.500	44	24Gam Gem	1.9280	11000.	117	39335	No
17	GOM_TRA_1PNPDE20090908_021111_000000522082_00203_39335_5225.N1	08-SEP-2009 02:11:11	Dark	52.000	1	9Alp CMa	-1.4400	11000.	104	39335	No
18	GOM_TRA_1PNPDE20090908_021242_000000512082_00203_39335_5226.N1	08-SEP-2009 02:12:42	Dark	50.500	47	2Bet CMa	1.9760	28000.	101	39335	No
19	GOM_TRA_1PNPDE20090908_021856_000000492082_00203_39335_5227.N1	08-SEP-2009 02:18:56	Dark	49.000	108	Alp Col	2.6520	15200.	98	39335	No
20	GOM_TRA_1PNPDE20090908_023107_000000572082_00204_39336_5228.N1	08-SEP-2009 02:31:07	Dark	56.500	157	The1Eri	2.9060	9300.0	113	39336	No
21	GOM_TRA_1PNPDE20090908_023758_000000472082_00204_39336_5229.N1	08-SEP-2009 02:37:58	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	39336	No
22	GOM_TRA_1PNPDE20090908_025748_000000422082_00204_39336_5230.N1	08-SEP-2009 02:57:48	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	39336	No
23	GOM_TRA_1PNPDE20090908_030202_000000402082_00204_39336_5231.N1	08-SEP-2009 03:02:02	Bright	39.500	164	44Eta Peg	2.9480	5400.0	79	39336	No
24	GOM_TRA_1PNPDE20090908_031224_000000402082_00204_39336_5232.N1	08-SEP-2009 03:12:24	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	39336	No
25	GOM_TRA_1PNPDE20090908_031424_000000442082_00204_39336_5233.N1	08-SEP-2009 03:14:24	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39336	No
26	GOM_TRA_1PNPDE20090908_033053_000000492082_00204_39336_5376.N1	08-SEP-2009 03:30:53	Bright	48.500	42	34Bet Aur	1.9000	10200.	97	39336	No
27	GOM_TRA_1PNPDE20090908_033359_000000512082_00204_39336_5377.N1	08-SEP-2009 03:33:59	Bright	51.000	107	37The Aur	2.6490	11000.	102	39336	No
28	GOM_TRA_1PNPDE20090908_033945_000000652082_00204_39336_5378.N1	08-SEP-2009 03:39:45	Twi_and_stray	65.000	151	13Mu Gem	2.8900	3000.0	130	39336	No
29	GOM_TRA_1PNPDE20090908_034139_000000522082_00204_39336_5379.N1	08-SEP-2009 03:41:39	Twi_and_stray	52.000	44	24Gam Gem	1.9280	11000.	104	39336	No
30	GOM_TRA_1PNPDE20090908_035147_000000522082_00204_39336_5380.N1	08-SEP-2009 03:51:47	Dark	51.500	1	9Alp CMa	-1.4400	11000.	103	39336	No
31	GOM_TRA_1PNPDE20090908_035319_000000492082_00204_39336_5381.N1	08-SEP-2009 03:53:19	Dark	49.000	47	2Bet CMa	1.9760	28000.	98	39336	No
32	GOM_TRA_1PNPDE20090908_035622_000000442082_00204_39336_5382.N1	08-SEP-2009 03:56:22	Dark	43.500	177	1Zet CMa	3.0220	26000.	87	39336	No
33	GOM_TRA_1PNPDE20090908_035934_000000472082_00204_39336_5383.N1	08-SEP-2009 03:59:34	Dark	46.500	108	Alp Col	2.6520	15200.	93	39336	No
34	GOM_TRA_1PNPDE20090908_041145_000000562082_00205_39337_5384.N1	08-SEP-2009 04:11:45	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39337	No
35	GOM_TRA_1PNPDE20090908_041834_000000482082_00205_39337_5385.N1	08-SEP-2009 04:18:34	Straylight	48.000	84	Alp Phe	2.3970	4500.0	96	39337	No
36	GOM_TRA_1PNPDE20090908_043824_000000432082_00205_39337_5386.N1	08-SEP-2009 04:38:24	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	39337	No
37	GOM_TRA_1PNPDE20090908_044237_000000542082_00205_39337_5387.N1	08-SEP-2009 04:42:37	Bright	53.500	164	44Eta Peg	2.9480	5400.0	107	39337	No
38	GOM_TRA_1PNPDE20090908_045300_000000432082_00205_39337_5388.N1	08-SEP-2009 04:53:00	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	39337	No
39	GOM_TRA_1PNPDE20090908_045459_000000452082_00205_39337_5389.N1	08-SEP-2009 04:54:59	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	39337	No
40	GOM_TRA_1PNPDE20090908_051129_000000472082_00205_39337_5536.N1	08-SEP-2009 05:11:29	Bright	47.000	42	34Bet Aur	1.9000	10200.	94	39337	No
41	GOM_TRA_1PNPDE20090908_051435_000000522082_00205_39337_5537.N1	08-SEP-2009 05:14:35	Bright	51.500	107	37The Aur	2.6490	11000.	103	39337	No
42	GOM_TRA_1PNPDE20090908_052022_000000662082_00205_39337_5538.N1	08-SEP-2009 05:20:22	Twi_and_stray	66.000	151	13Mu Gem	2.8900	3000.0	132	39337	No
43	GOM_TRA_1PNPDE20090908_052216_000000572082_00205_39337_5539.N1	08-SEP-2009 05:22:16	Twi_and_stray	56.500	44	24Gam Gem	1.9280	11000.	113	39337	No
44	GOM_TRA_1PNPDE20090908_053224_000000502082_00205_39337_5540.N1	08-SEP-2009 05:32:24	Dark	50.000	1	9Alp CMa	-1.4400	11000.	100	39337	No
45	GOM_TRA_1PNPDE20090908_053356_000000492082_00205_39337_5541.N1	08-SEP-2009 05:33:56	Dark	49.000	47	2Bet CMa	1.9760	28000.	98	39337	No
46	GOM_TRA_1PNPDE20090908_053659_000000442082_00205_39337_5542.N1	08-SEP-2009 05:36:59	Dark	44.000	177	1Zet CMa	3.0220	26000.	88	39337	No
47	GOM_TRA_1PNPDE20090908_054011_000000502082_00205_39337_5543.N1	08-SEP-2009 05:40:11	Dark	50.000	108	Alp Col	2.6520	15200.	100	39337	No
48	GOM_TRA_1PNPDE20090908_055222_000000562082_00206_39338_5544.N1	08-SEP-2009 05:52:22	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39338	No
49	GOM_TRA_1PNPDE20090908_055911_000000462082_00206_39338_5545.N1	08-SEP-2009 05:59:11	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	39338	No
50	GOM_TRA_1PNPDE20090908_061900_000000422082_00206_39338_5546.N1	08-SEP-2009 06:19:00	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	39338	No
51	GOM_TRA_1PNPDE20090908_062313_000000582082_00206_39338_5547.N1	08-SEP-2009 06:23:13	Bright	58.000	164	44Eta Peg	2.9480	5400.0	116	39338	No
52	GOM_TRA_1PNPDE20090908_063335_000000432082_00206_39338_5548.N1	08-SEP-2009 06:33:35	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39338	No
53	GOM_TRA_1PNPDE20090908_063535_000000432082_00206_39338_5549.N1	08-SEP-2009 06:35:35	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39338	No
54	GOM_TRA_1PNPDE20090908_210438_000000482082_00215_39347_5971.N1	08-SEP-2009 21:04:38	Straylight	48.000	84	Alp Phe	2.3970	4500.0	96	39347	No
55	GOM_TRA_1PNPDE20090908_212420_000000422082_00215_39347_5972.N1	08-SEP-2009 21:24:20	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	39347	No
56	GOM_TRA_1PNPDE20090908_212834_000000582082_00215_39347_5973.N1	08-SEP-2009 21:28:34	Bright	58.000	164	44Eta Peg	2.9480	5400.0	116	39347	No
57	GOM_TRA_1PNPDE20090908_213854_000000422082_00215_39347_5974.N1	08-SEP-2009 21:38:54	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	39347	No
58	GOM_TRA_1PNPDE20090908_214052_000000442082_00215_39347_5975.N1	08-SEP-2009 21:40:52	Bright	43.500	76	27Gam Cas	2.3000	30000.	87	39347	No
59	GOM_TRA_1PNPDE20090908_215726_000000492082_00215_39347_5976.N1	08-SEP-2009 21:57:26	Bright	49.000	42	34Bet Aur	1.9000	10200.	98	39347	No
60	GOM_TRA_1PNPDE20090908_220034_000000422082_00215_39347_5977.N1	08-SEP-2009 22:00:34	Bright	42.000	107	37The Aur	2.6490	11000.	84	39347	No
61	GOM_TRA_1PNPDE20090908_220204_000000572082_00215_39347_5978.N1	08-SEP-2009 22:02:04	Bright	56.500	24	66Alp Gem	1.5800	10200.	113	39347	No
62	GOM_TRA_1PNPDE20090908_220625_000000652082_00215_39347_5979.N1	08-SEP-2009 22:06:25	Twi_and_stray	65.000	151	13Mu Gem	2.8900	3000.0	130	39347	No
63	GOM_TRA_1PNPDE20090908_220820_000000542082_00215_39347_5980.N1	08-SEP-2009 22:08:20	Twi_and_stray	53.500	44	24Gam Gem	1.9280	11000.	107	39347	No
64	GOM_TRA_1PNPDE20090908_221831_000000532082_00215_39347_6122.N1	08-SEP-2009 22:18:31	Dark	53.000	1	9Alp CMa	-1.4400	11000.	106	39347	No
65	GOM_TRA_1PNPDE20090908_222005_000000532082_00215_39347_6123.N1	08-SEP-2009 22:20:05	Dark	53.000	47	2Bet CMa	1.9760	28000.	106	39347	No
66	GOM_TRA_1PNPDE20090908_222307_000000452082_00215_39347_6124.N1	08-SEP-2009 22:23:07	Dark	45.000	177	1Zet CMa	3.0220	26000.	90	39347	No

67	GOM_TRA_1PNPDE20090908_222620_000000492082_00215_39347_6125.N1	08-SEP-2009 22:26:20	Dark	48.500	108	Alp Col	2.6520	15200.	97	39347	No
68	GOM_TRA_1PNPDE20090908_223832_000000552082_00216_39348_6126.N1	08-SEP-2009 22:38:32	Dark	54.500	157	The1Eri	2.9060	9300.0	109	39348	No
69	GOM_TRA_1PNPDE20090908_224515_000000462082_00216_39348_6127.N1	08-SEP-2009 22:45:15	Straylight	45.500	84	Alp Phe	2.3970	4500.0	91	39348	No
70	GOM_TRA_1PNPDE20090908_230455_000000622082_00216_39348_6128.N1	08-SEP-2009 23:04:55	Bright	62.000	90	54Alp Peg	2.4870	11000.	124	39348	No
71	GOM_TRA_1PNPDE20090908_230909_000000392082_00216_39348_6129.N1	08-SEP-2009 23:09:09	Bright	38.500	164	44Eta Peg	2.9480	5400.0	77	39348	No
72	GOM_TRA_1PNPDE20090908_231929_000000402082_00216_39348_6130.N1	08-SEP-2009 23:19:29	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39348	No
73	GOM_TRA_1PNPDE20090908_232127_000000442082_00216_39348_6131.N1	08-SEP-2009 23:21:27	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39348	No
74	GOM_TRA_1PNPDE20090908_233802_000000502082_00216_39348_6132.N1	08-SEP-2009 23:38:02	Bright	49.500	42	34Bet Aur	1.9000	10200.	99	39348	No
75	GOM_TRA_1PNPDE20090908_234110_000000352082_00216_39348_6133.N1	08-SEP-2009 23:41:10	Twilight_stray	35.000	107	37The Aur	2.6490	11000.	70	39348	No
76	GOM_TRA_1PNPDE20090908_234240_000000582082_00216_39348_6134.N1	08-SEP-2009 23:42:40	Bright	58.000	24	66Alp Gem	1.5800	10200.	116	39348	No
77	GOM_TRA_1PNPDE20090908_234702_000000712082_00216_39348_6135.N1	08-SEP-2009 23:47:02	Twilight_stray	70.500	151	13Mu Gem	2.8900	3000.0	141	39348	No
78	GOM_TRA_1PNPDE20090908_234856_000000572082_00216_39348_6136.N1	08-SEP-2009 23:48:56	Twilight_stray	57.000	44	24Gam Gem	1.9280	11000.	114	39348	No
79	GOM_TRA_1PNPDE20090908_235908_000000512082_00216_39348_6276.N1	08-SEP-2009 23:59:08	Dark	51.000	1	9Alp CMa	-1.4400	11000.	102	39348	No

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



4. Overview of dark signal processing per product

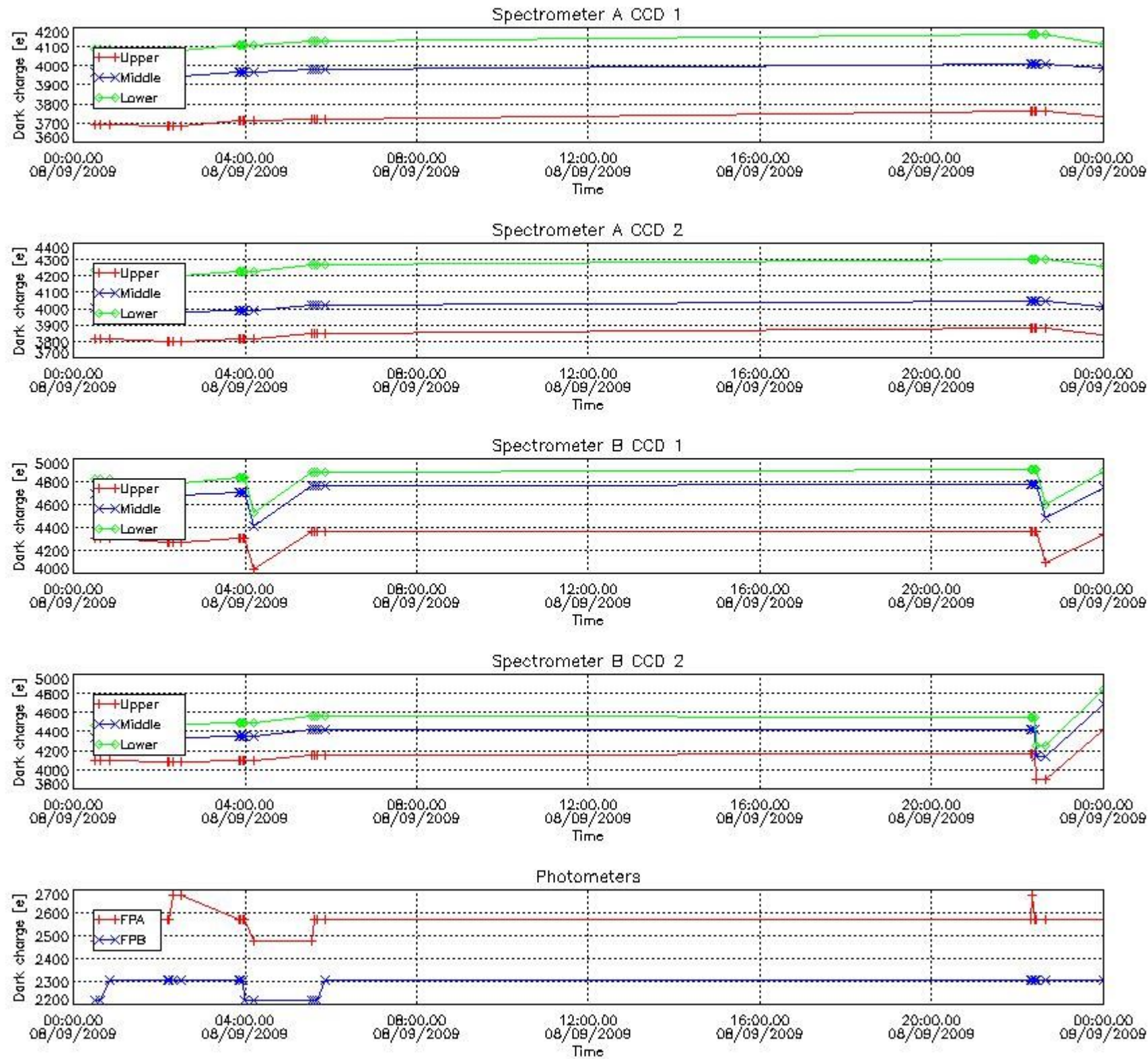
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090908_210438_000000482082_00215_39347_5971.N1	DC map used
GOM_TRA_1PNPDE20090908_212420_000000422082_00215_39347_5972.N1	DC map used
GOM_TRA_1PNPDE20090908_212834_000000582082_00215_39347_5973.N1	DC map used
GOM_TRA_1PNPDE20090908_213854_000000422082_00215_39347_5974.N1	DC map used
GOM_TRA_1PNPDE20090908_214052_000000442082_00215_39347_5975.N1	DC map used
GOM_TRA_1PNPDE20090908_215726_000000492082_00215_39347_5976.N1	DC map used
GOM_TRA_1PNPDE20090908_220034_000000422082_00215_39347_5977.N1	DC map used
GOM_TRA_1PNPDE20090908_220204_000000572082_00215_39347_5978.N1	DC map used
GOM_TRA_1PNPDE20090908_220625_000000652082_00215_39347_5979.N1	DC map used
GOM_TRA_1PNPDE20090908_220820_000000542082_00215_39347_5980.N1	DC map used

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



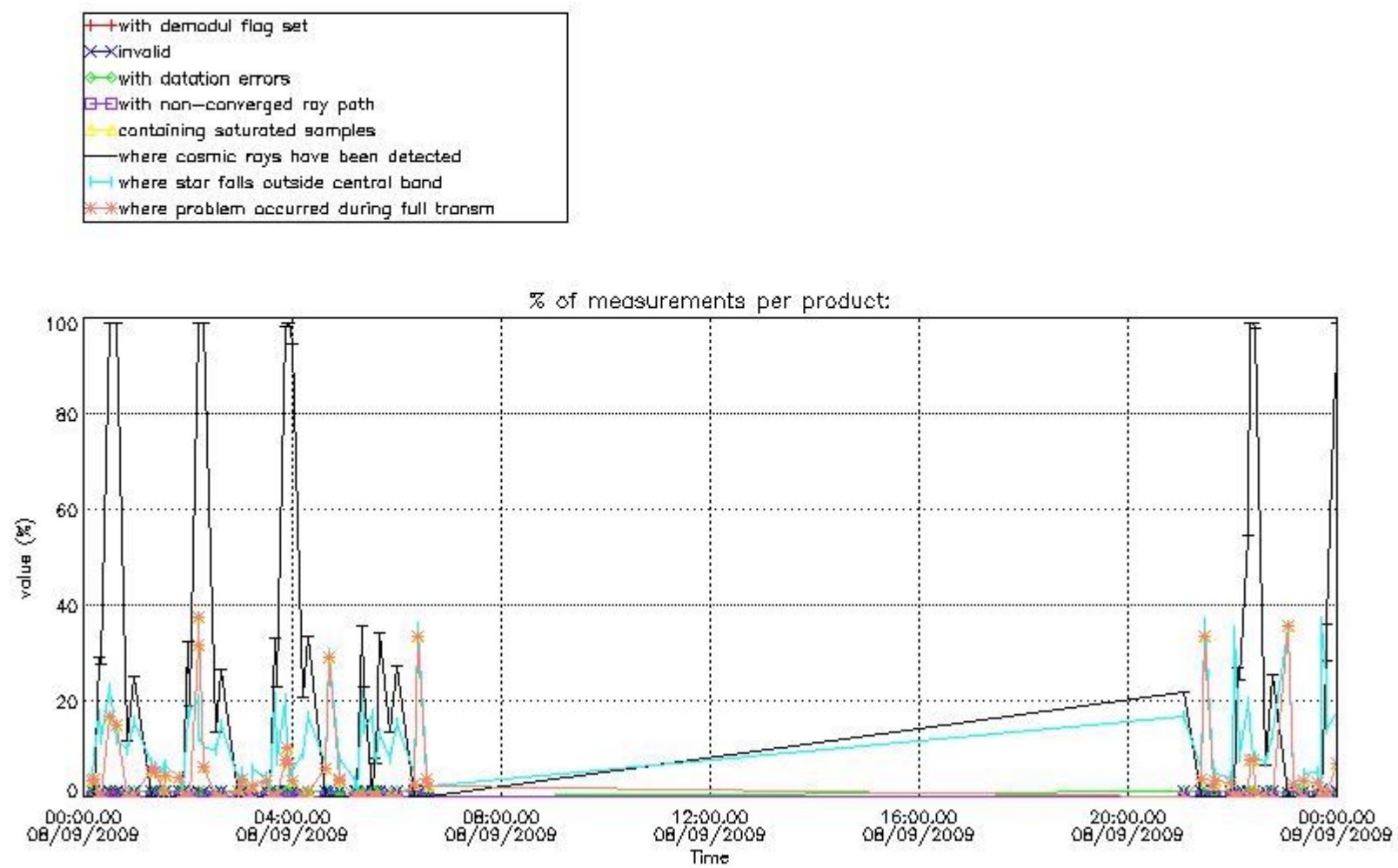
5. Demodulation flag and quality information monitoring

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.

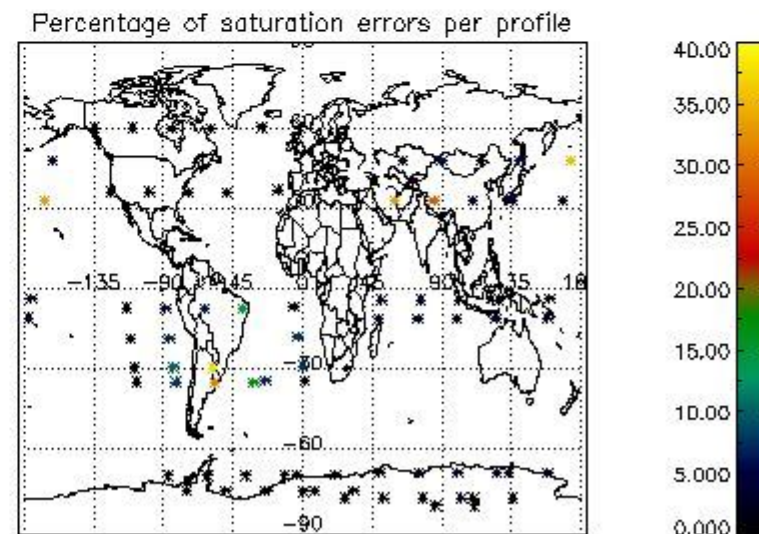
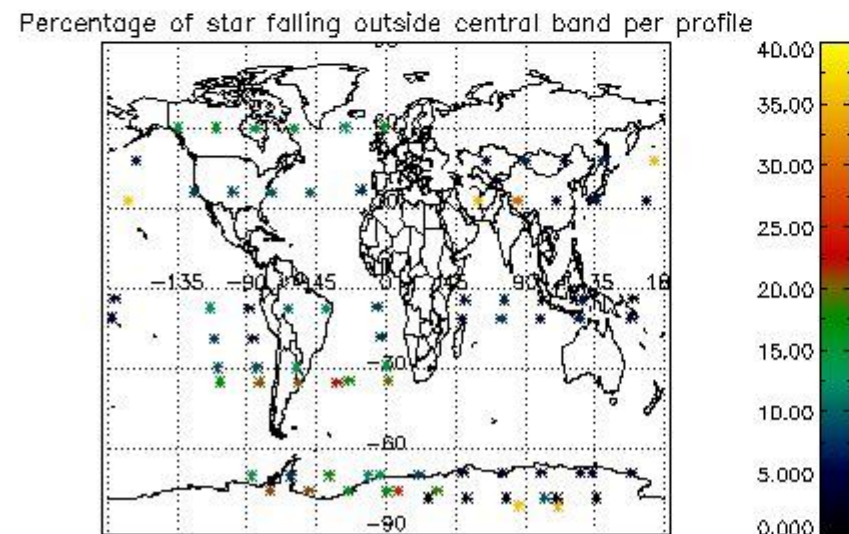
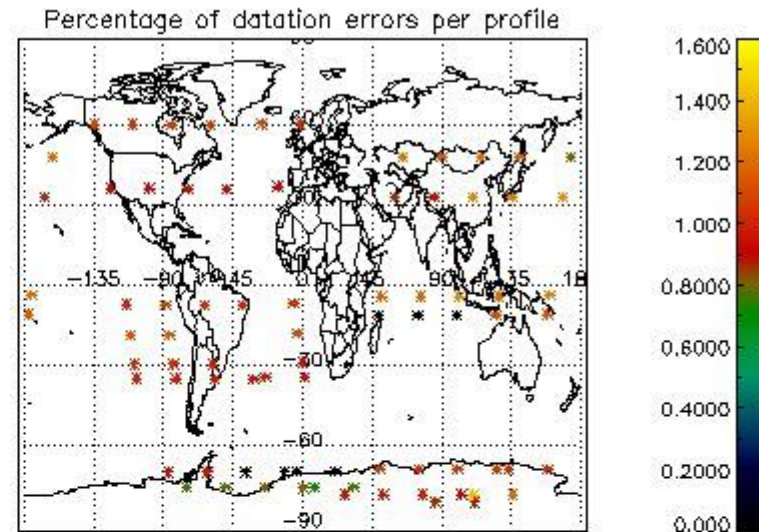
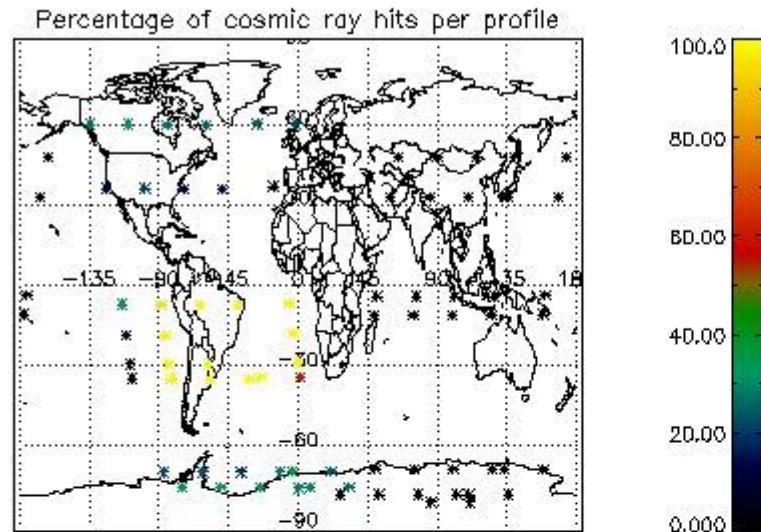
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.1772 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



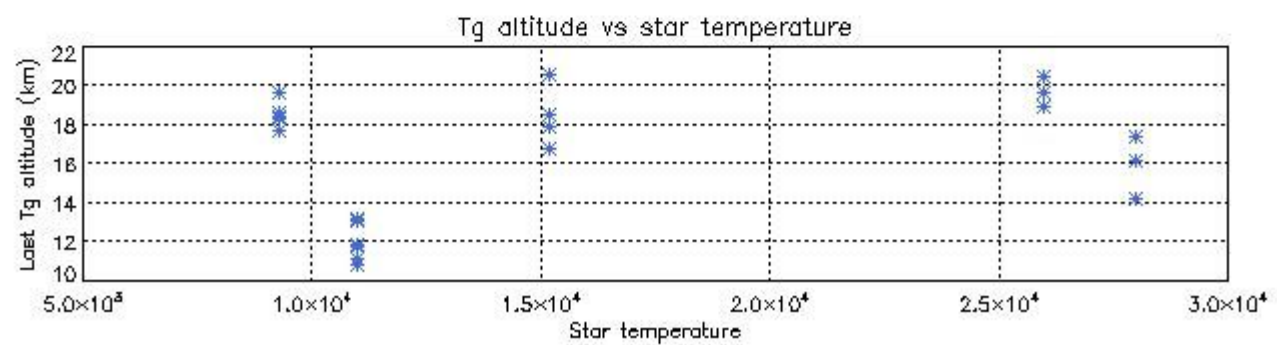
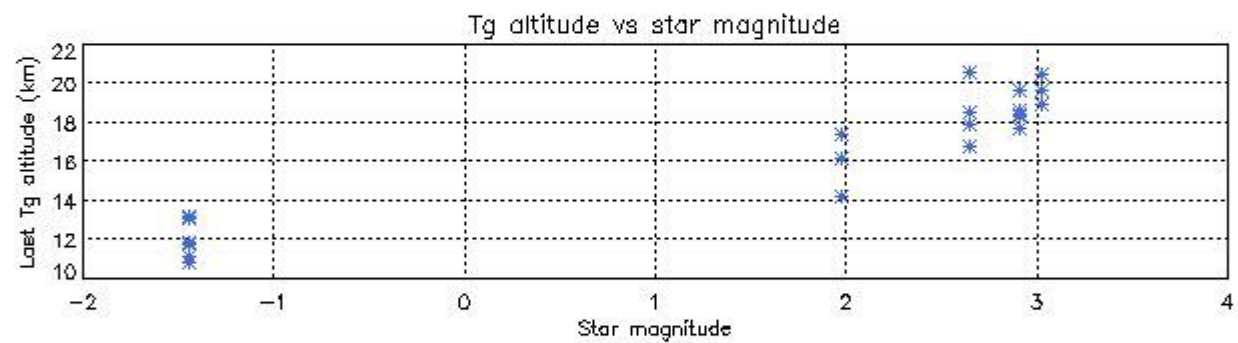
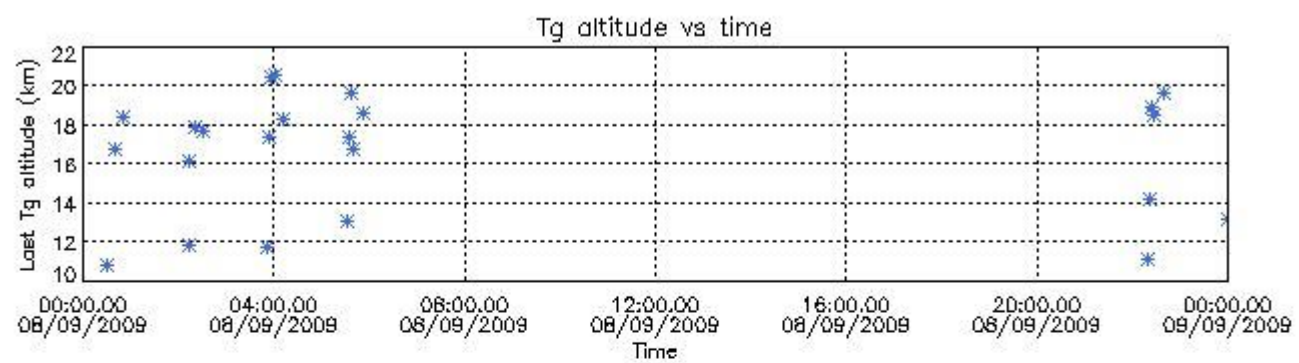
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.483	19.788	NaN
St. deviation:	3.0997	7.6588	NaN
Maximum:	20.572	41.290	NaN
Minimum:	10.778	3.6689	NaN
Number of data:	23.000	37.000	NaN

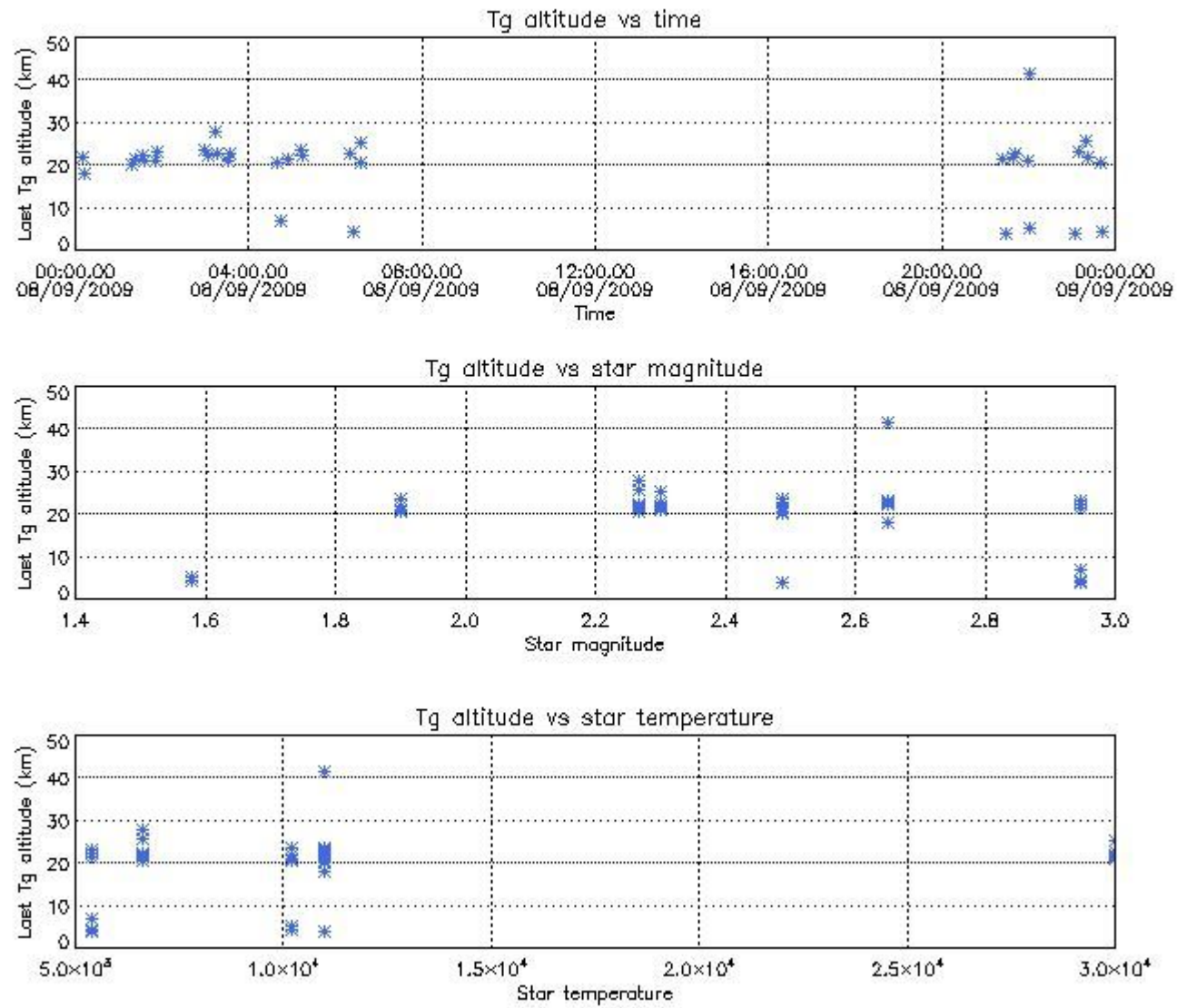
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

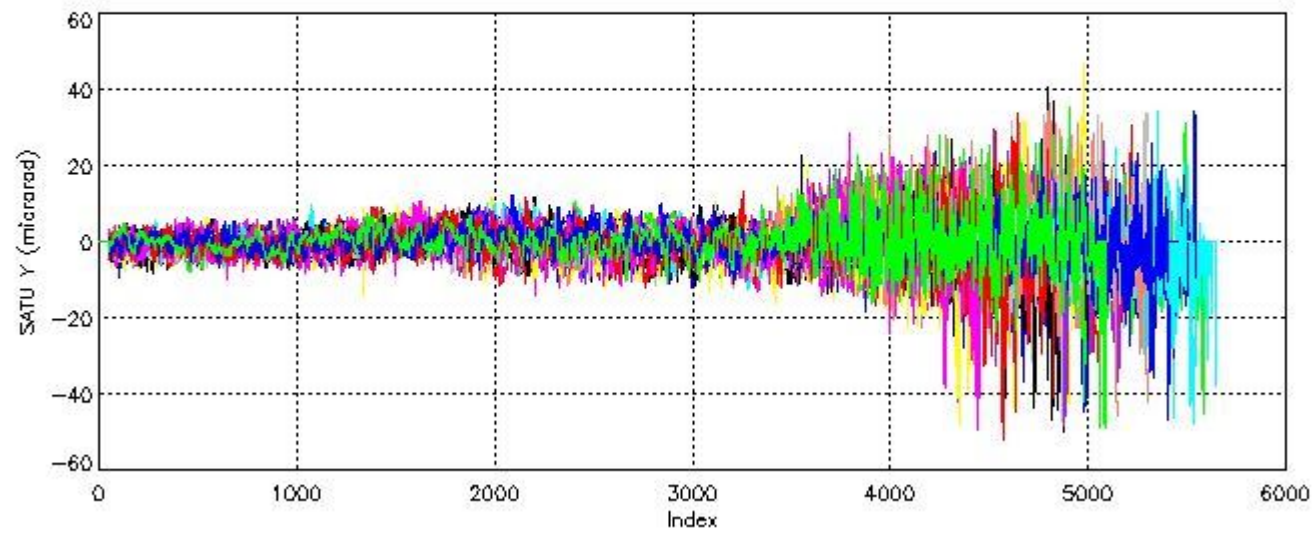
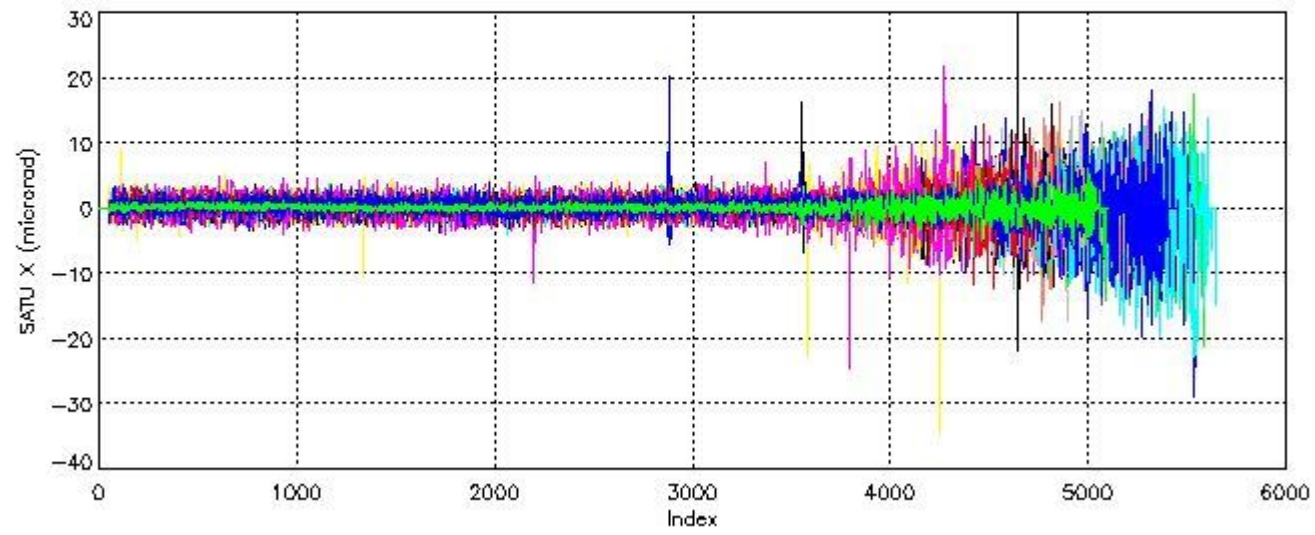


7. Star Acquisition and Tracking Unit (SATU)

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:	0.23333	-0.67645	0.26224	-0.40093
St. deviation:	0.74246	1.9095	0.86960	2.0242
Maximum:	8.9000	9.5000	4.6000	9.7000
Minimum:	-4.9000	-10.000	-4.5000	-9.0000

Number of data:	26500.	26500.	39000.	39000.
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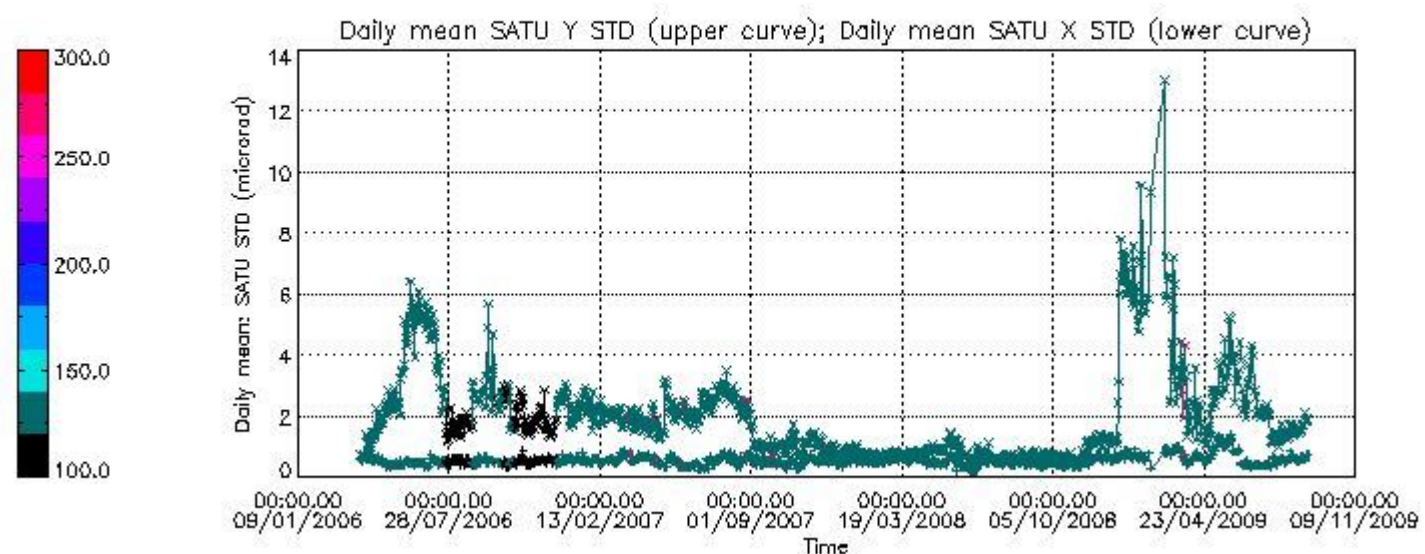
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

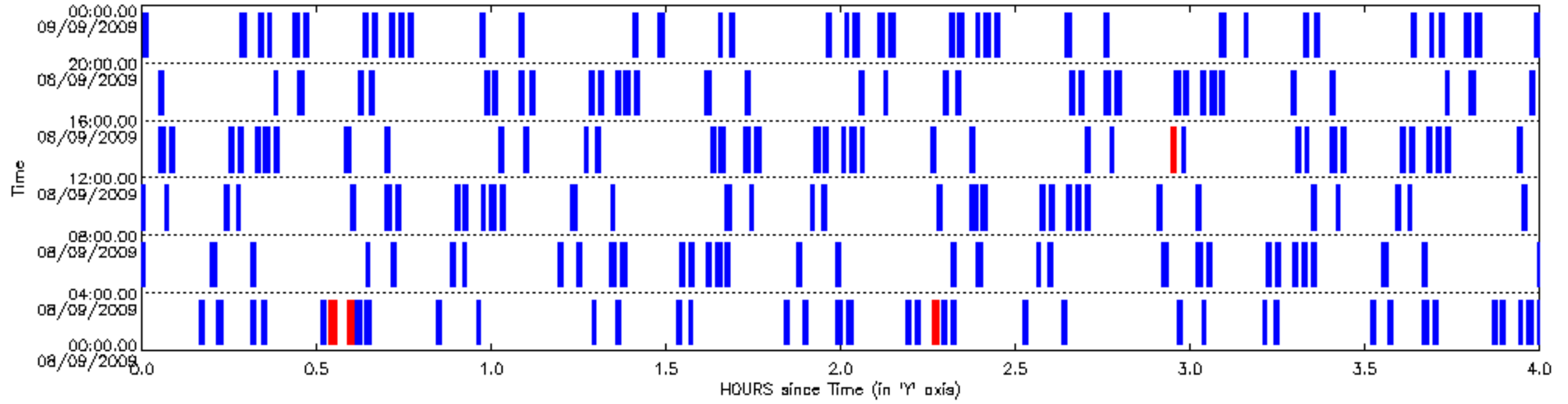
Lower curve: STD of SATU X axis

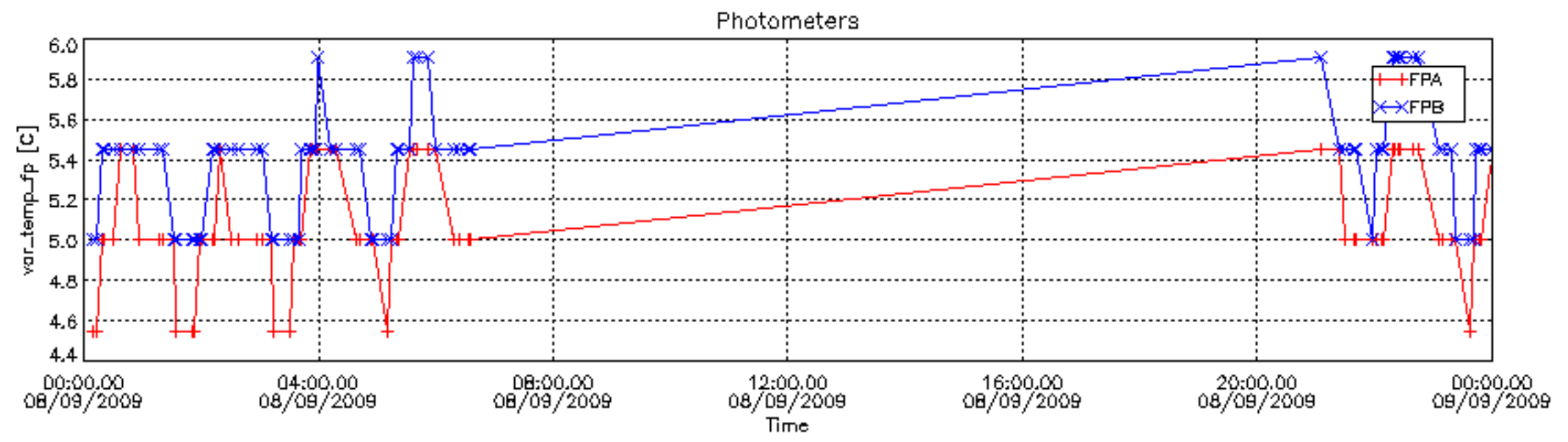
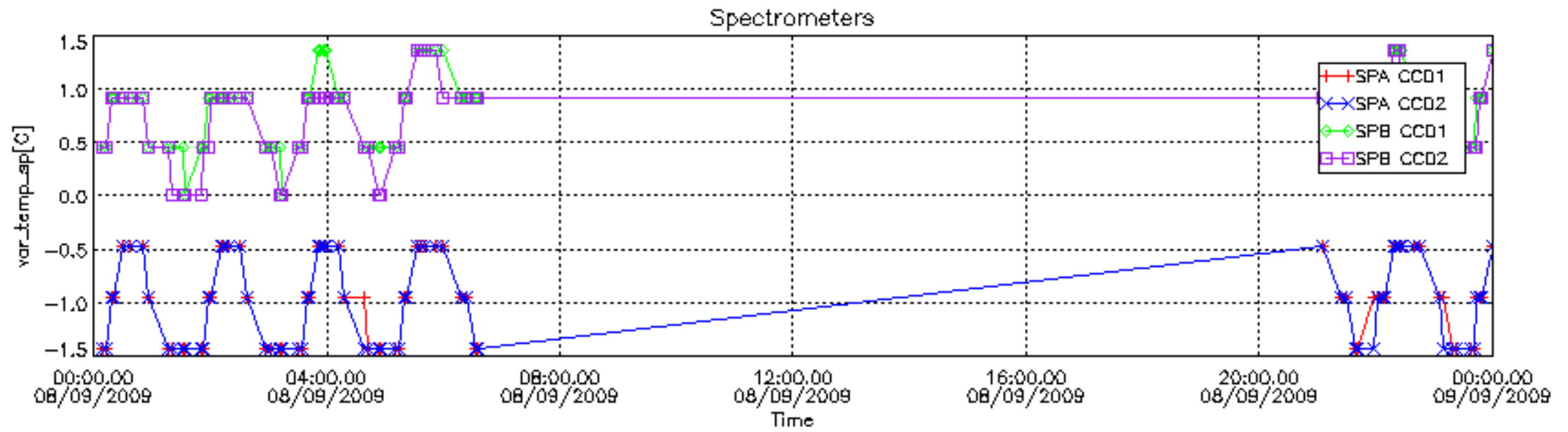


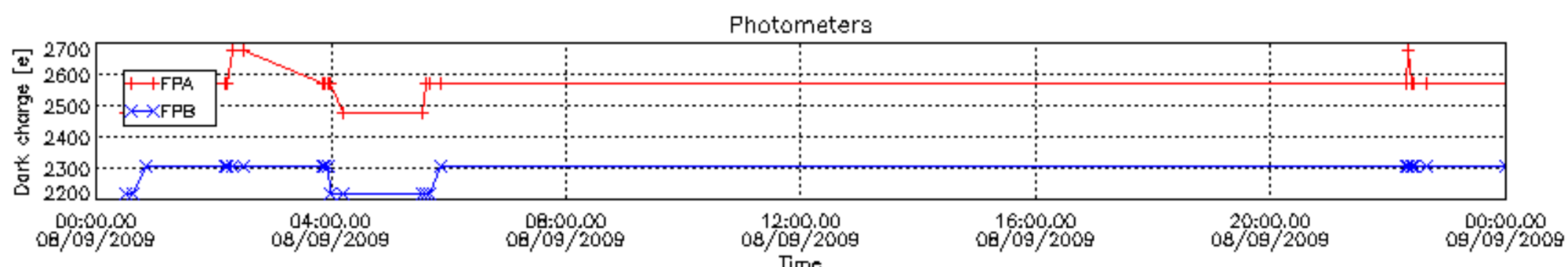
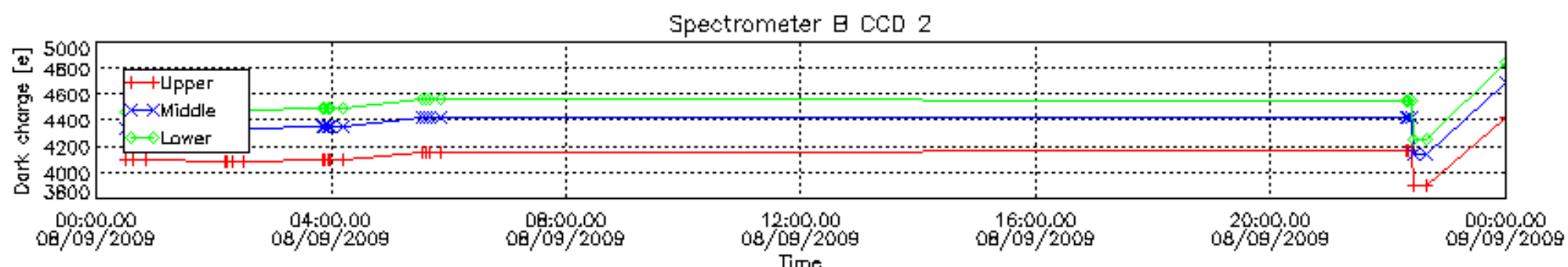
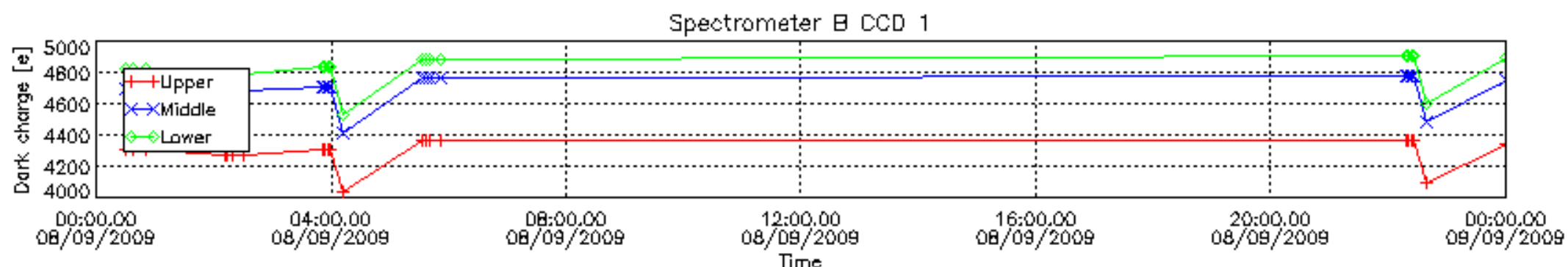
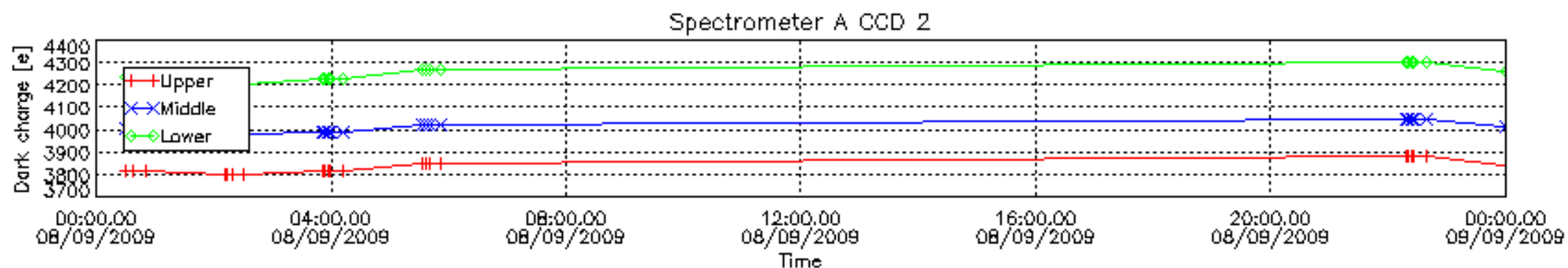
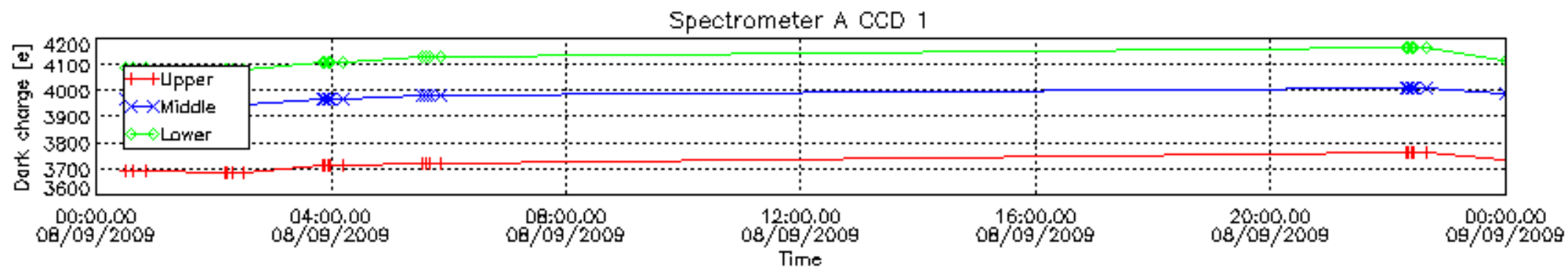
8. Auxiliary Data Files used for the production reported in section 2.4

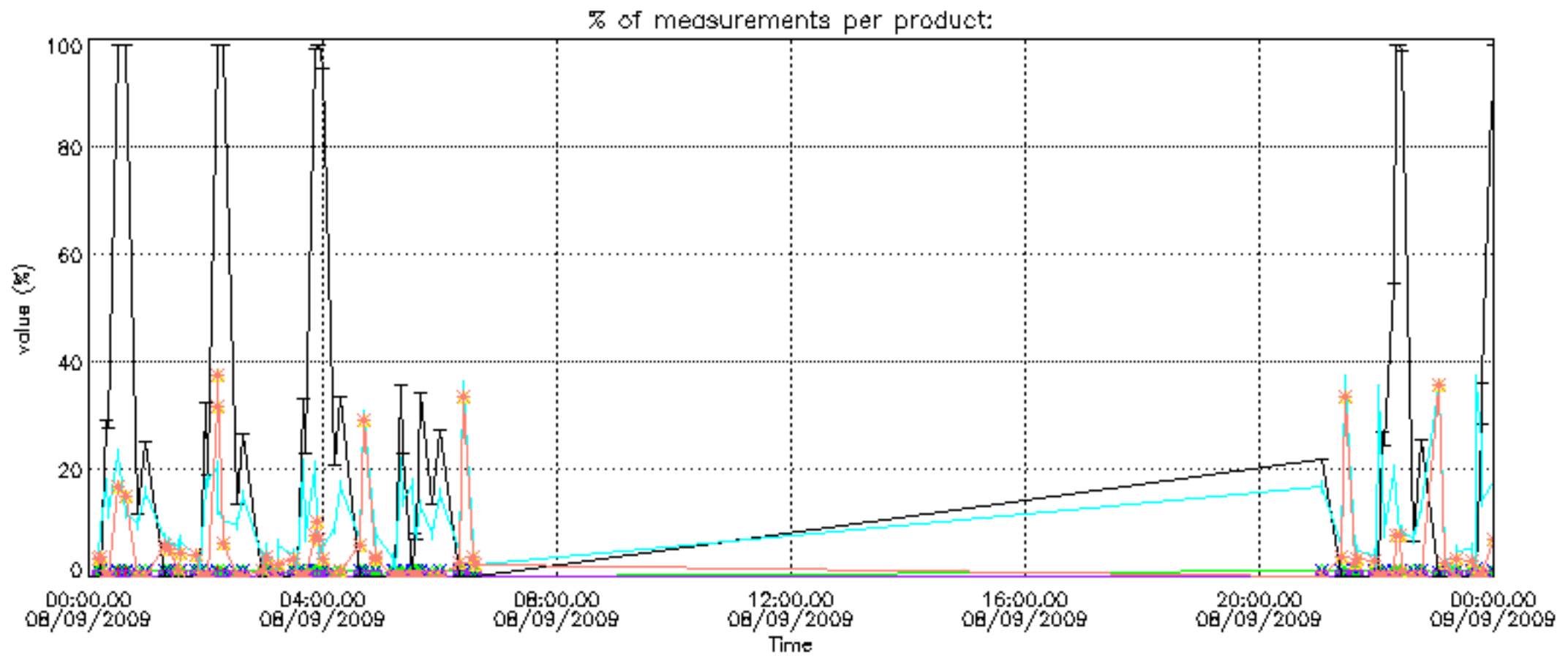
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	08-SEP-2009 00:09:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090907_104444_20090905_000000_20100101_000000	1	08-SEP-2009 00:09:42
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-SEP-2009 00:09:42
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-SEP-2009 00:09:42
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-SEP-2009 00:09:42
ECMWF_FILE	AUX_ECF_AXNECM20090907_064112_20090907_210000_20090908_090000	1	08-SEP-2009 00:09:42
ECMWF_FILE	AUX_ECF_AXNECM20090907_182116_20090908_030000_20090908_150000	26	08-SEP-2009 03:30:53
ECMWF_FILE	AUX_ECF_AXNECM20090908_064111_20090908_210000_20090909_090000	54	08-SEP-2009 21:04:38
OPTIONAL_ECMWF_FILE	MISSING	1	08-SEP-2009 00:09:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090907_210042_000060572082_00200_39332_8714.N1	1	08-SEP-2009 00:09:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090907_224657_000057382082_00201_39333_8715.N1	5	08-SEP-2009 00:30:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090908_002754_000054192082_00202_39334_8716.N1	17	08-SEP-2009 02:11:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090908_020333_000041442082_00203_39335_8717.N1	26	08-SEP-2009 03:30:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090908_031756_000057382082_00204_39336_8718.N1	40	08-SEP-2009 05:11:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090908_210033_000041442082_00215_39347_8720.N1	54	08-SEP-2009 21:04:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090908_221456_000057382082_00215_39347_8721.N1	79	08-SEP-2009 23:59:08

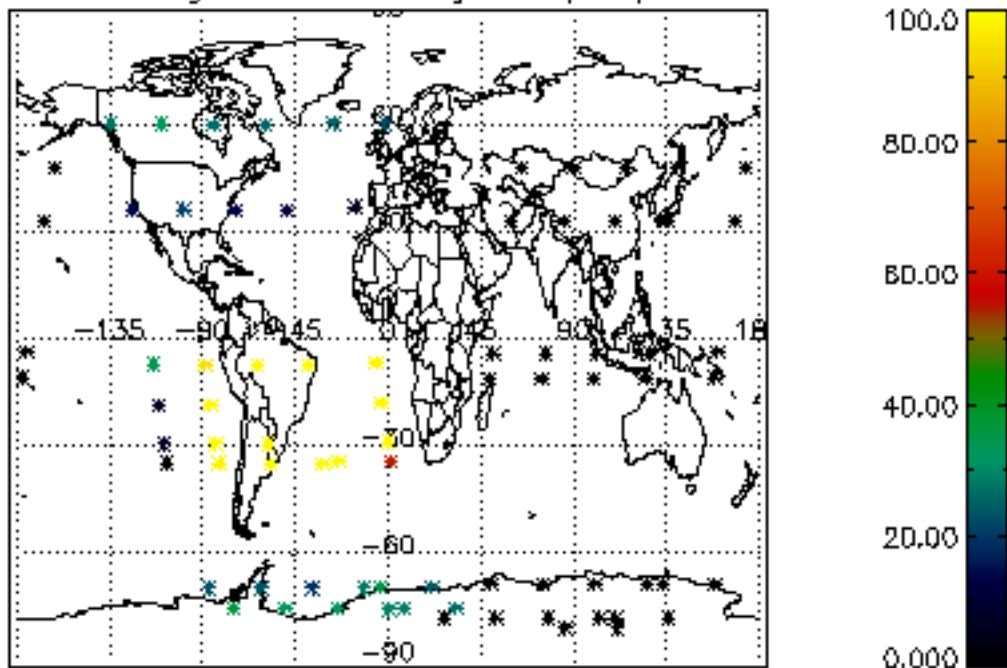




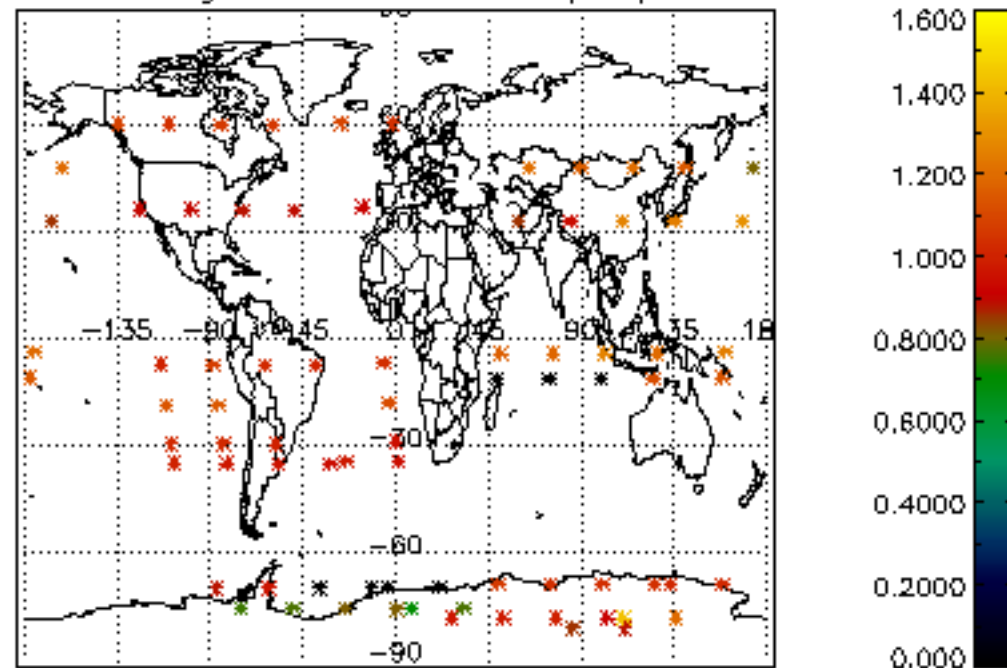




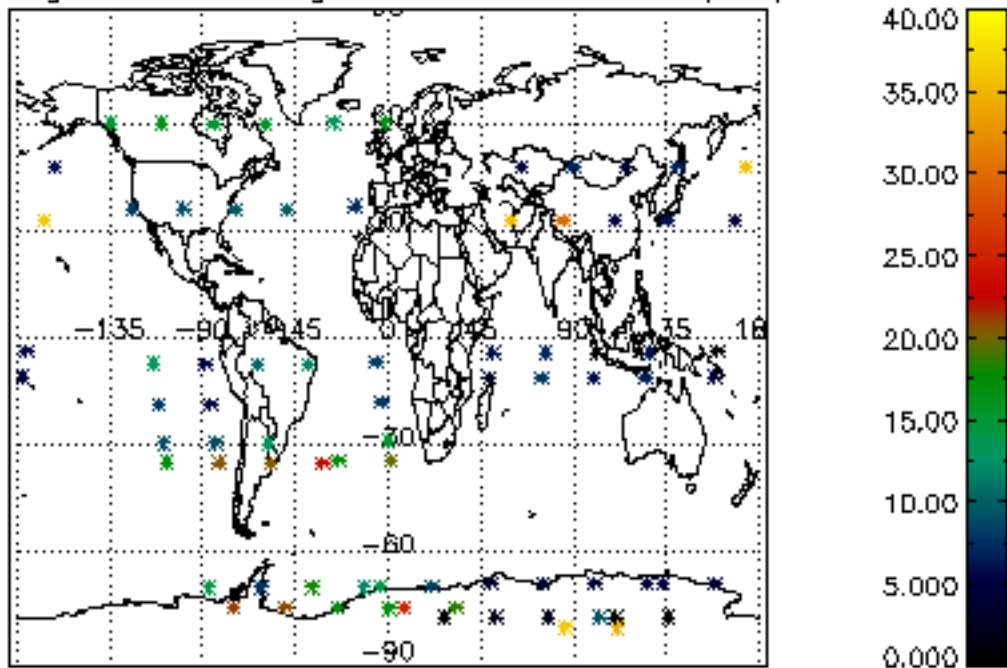
Percentage of cosmic ray hits per profile



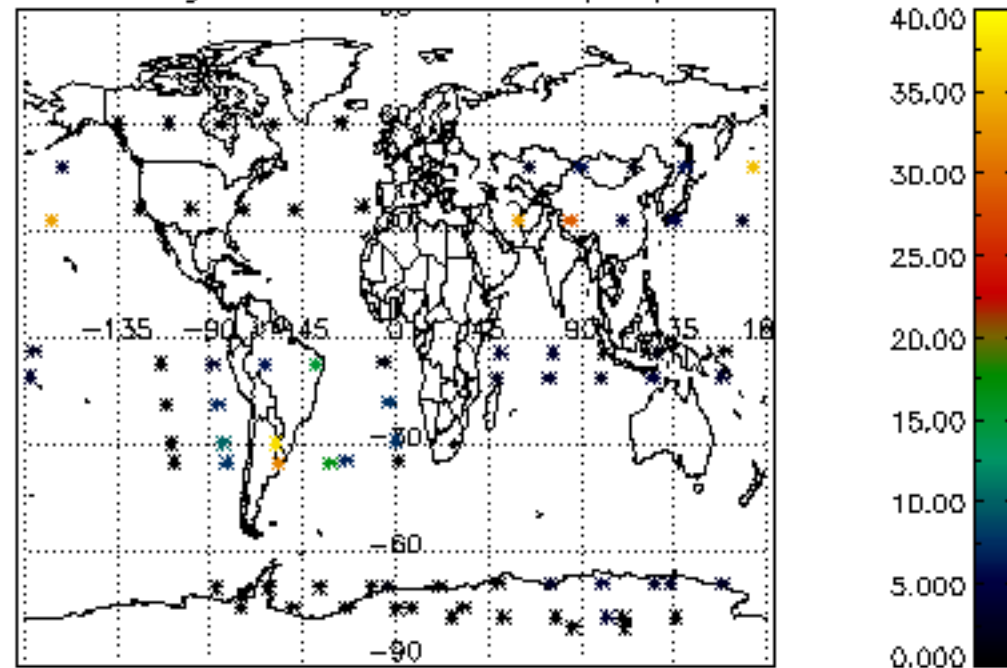
Percentage of datation errors per profile



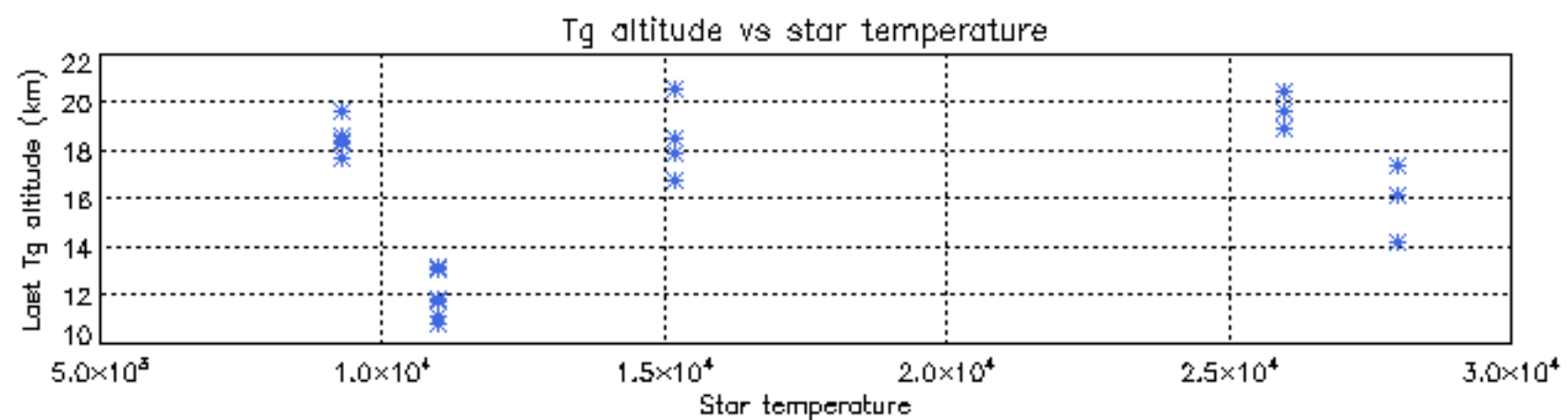
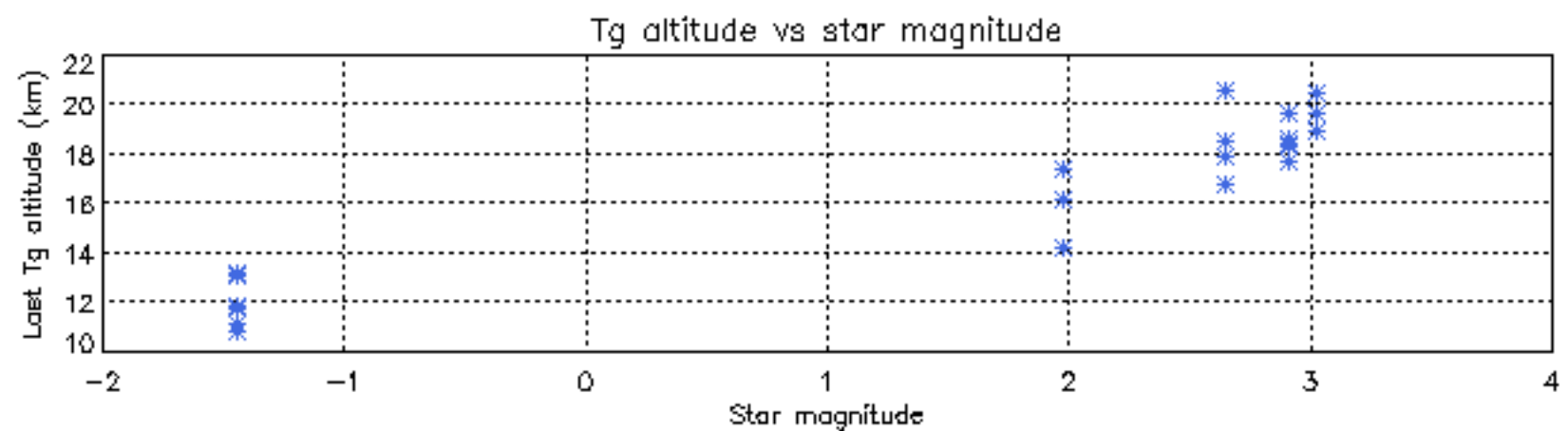
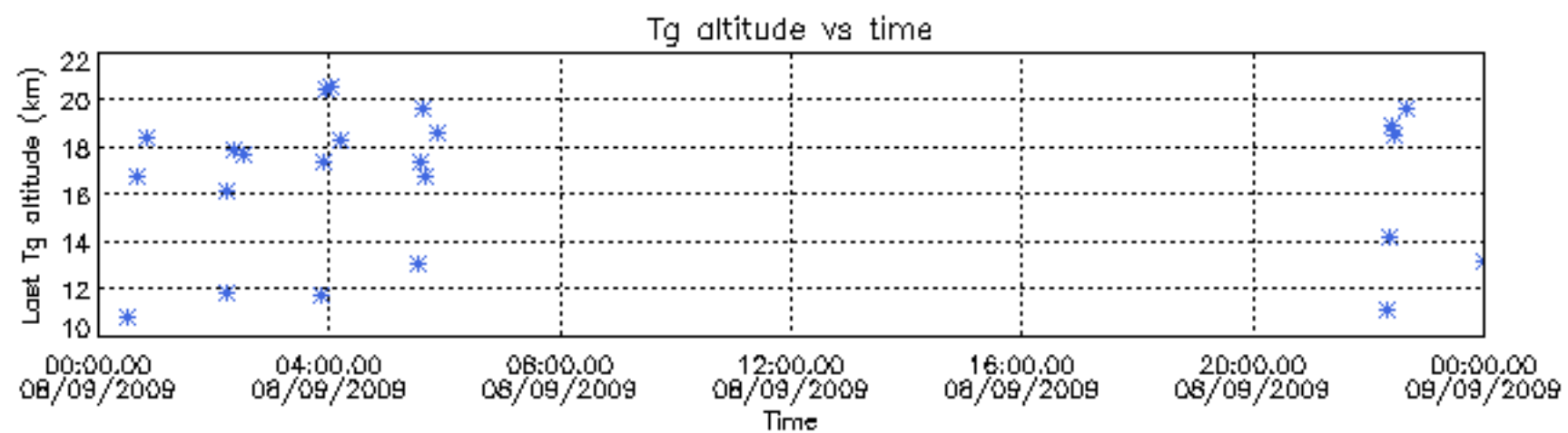
Percentage of star falling outside central band per profile



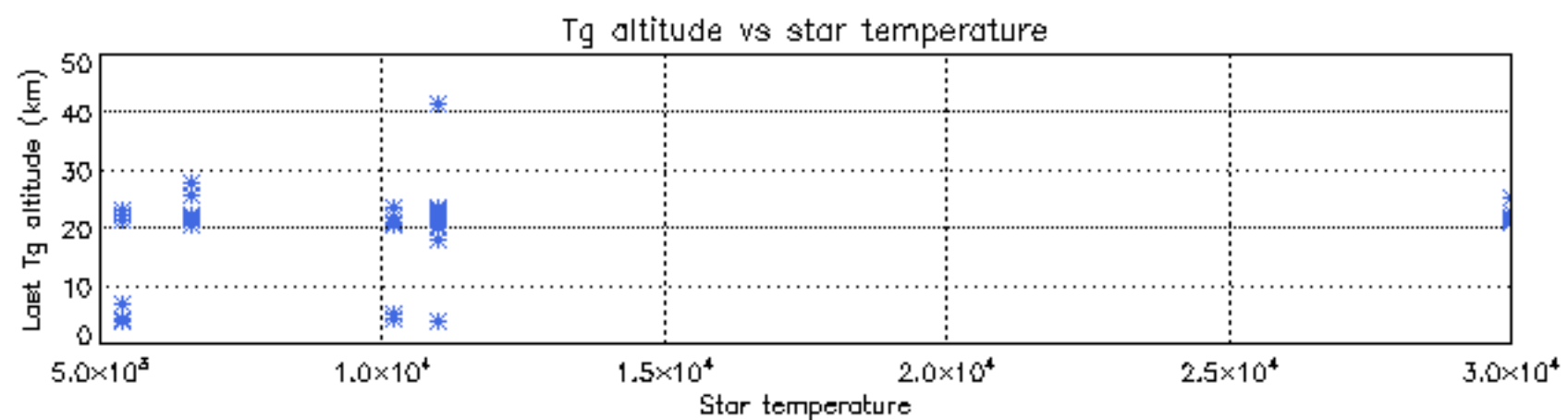
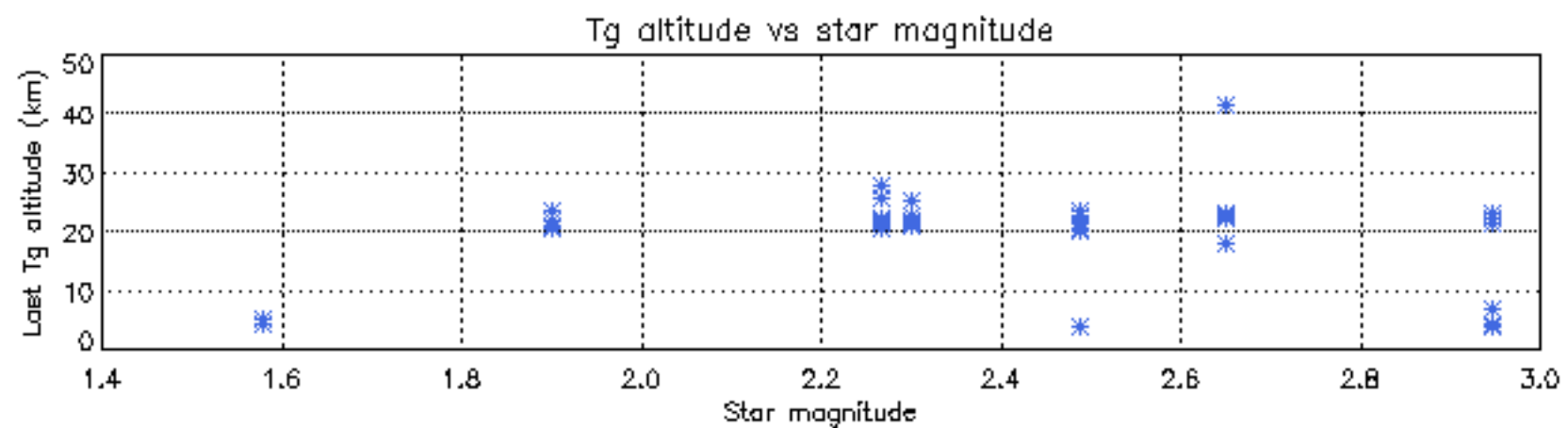
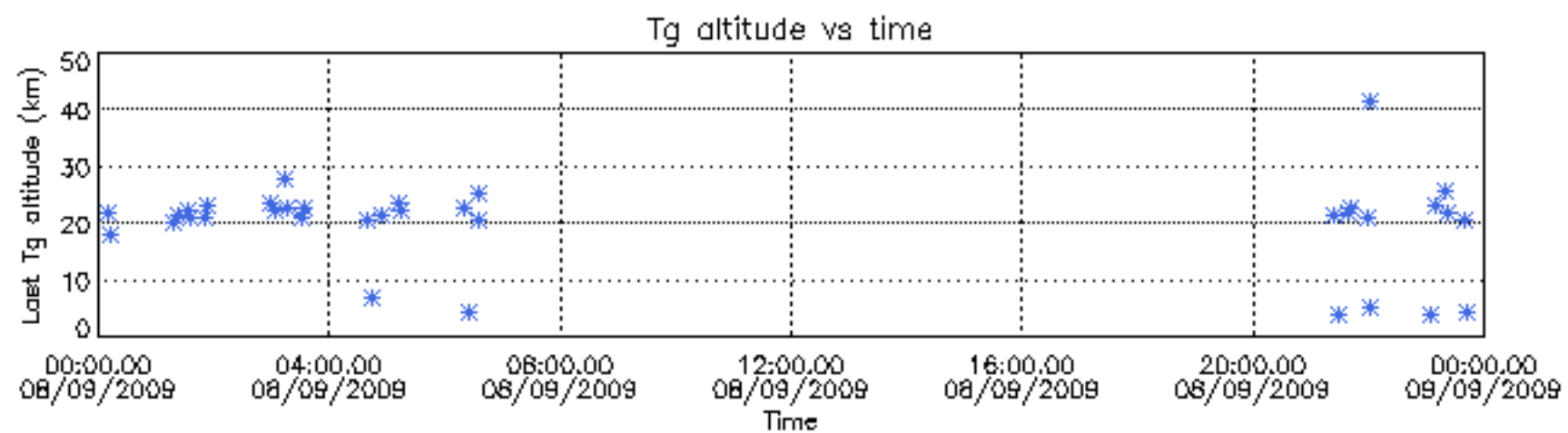
Percentage of saturation errors per profile

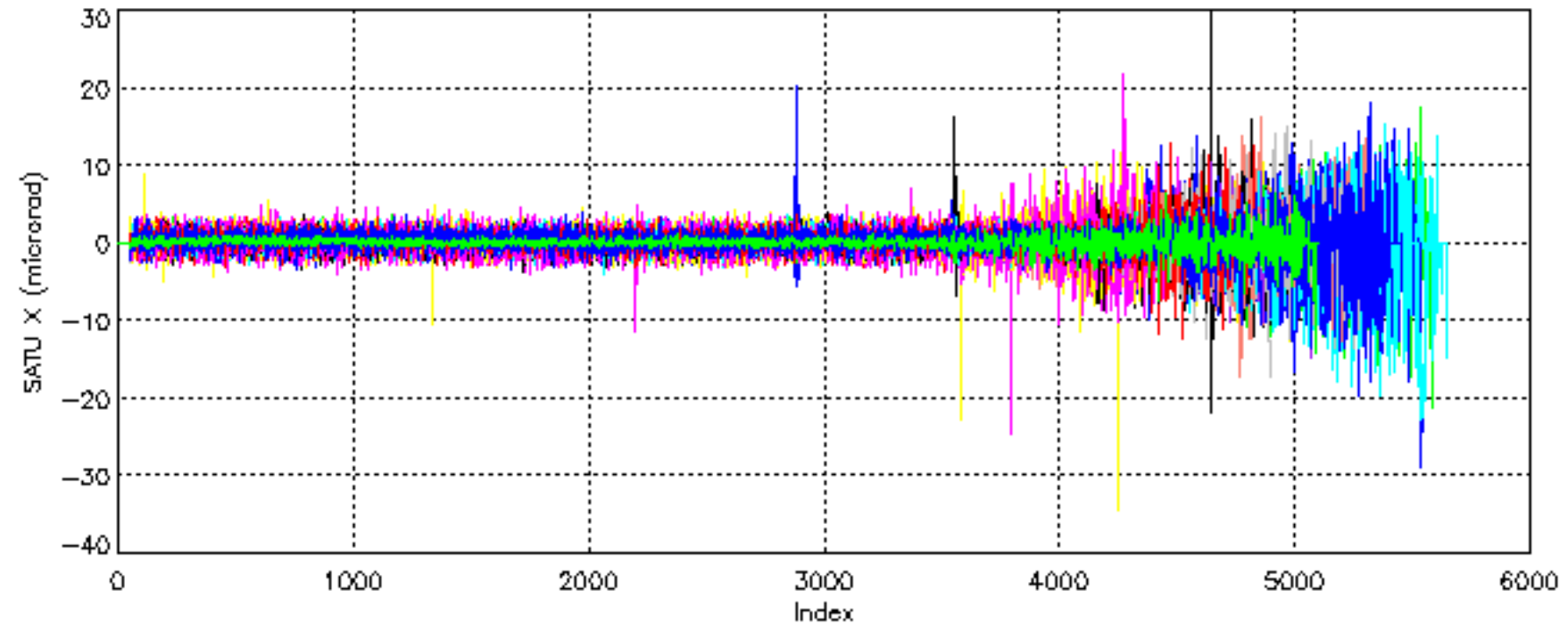


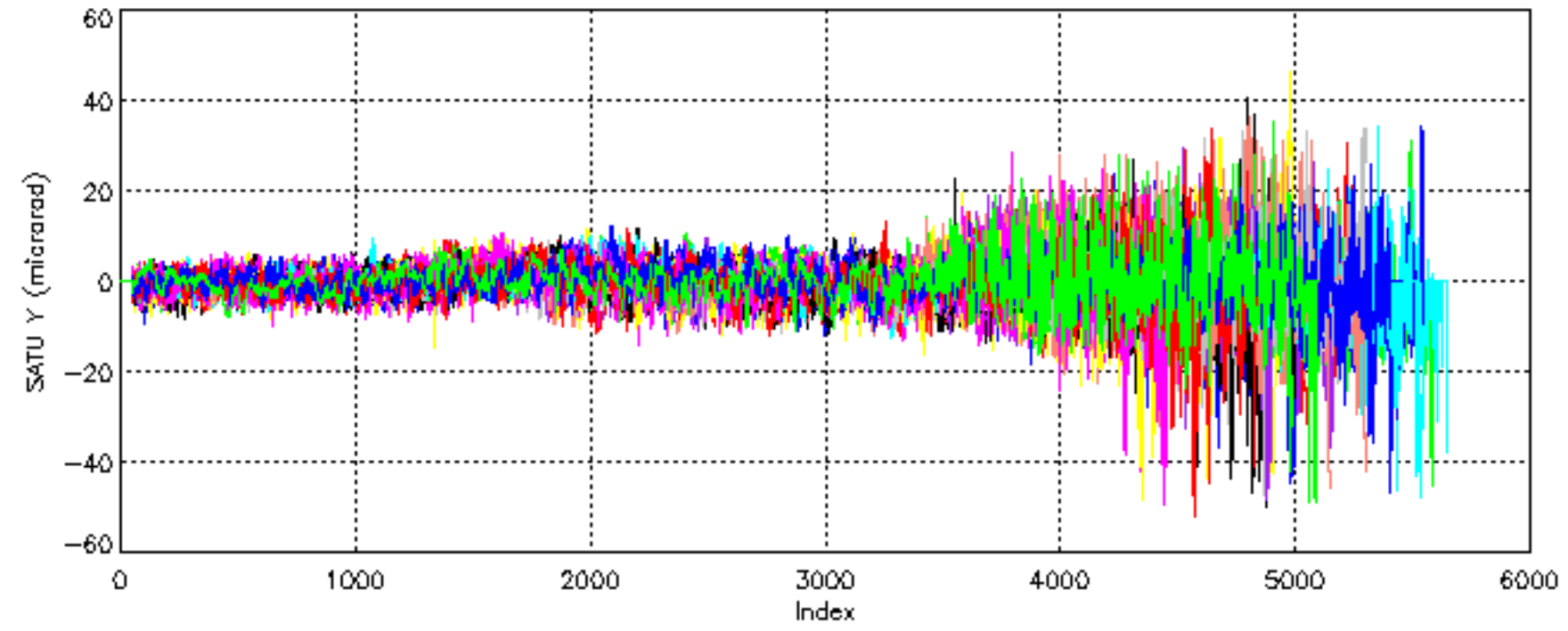
Tangent altitude at which the star is lost

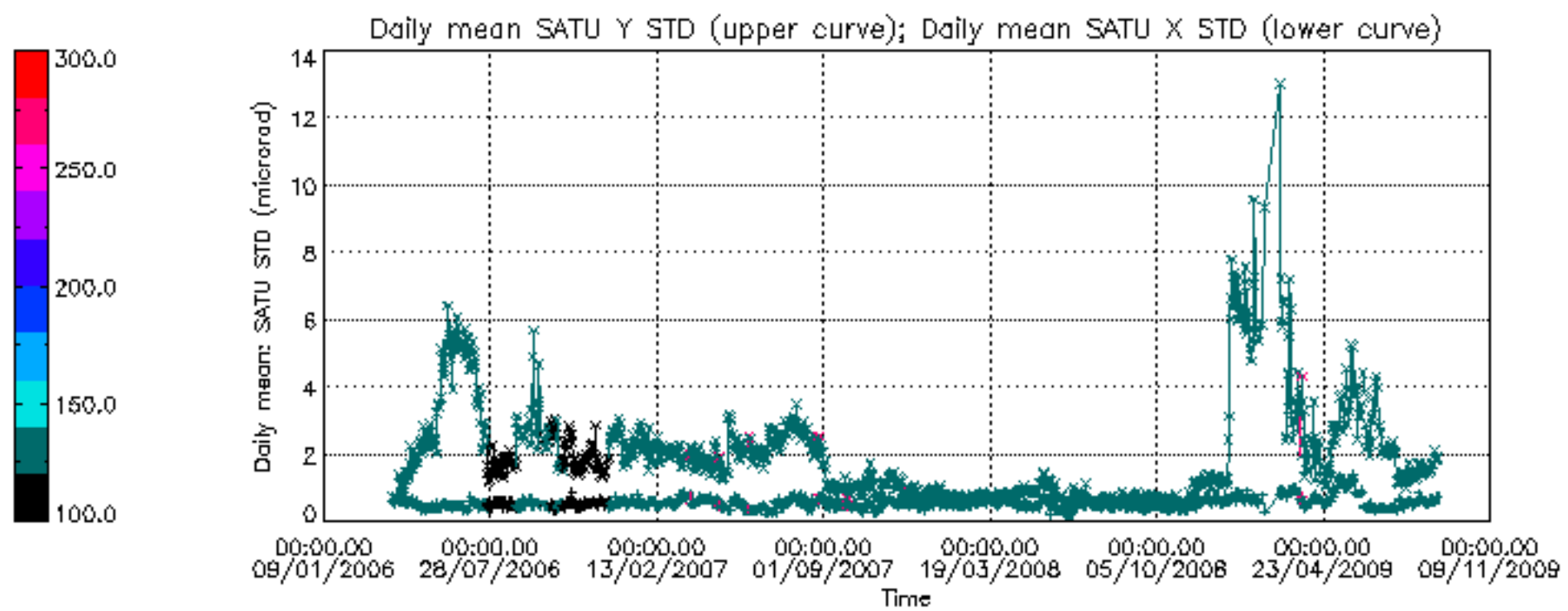


Tangent altitude at which the star is lost









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1; -717.2; 01-SEP-2009 00:48:36; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39234
 2; -585.8; 01-SEP-2009 00:50:47; Dark ; 48.5; 47; 2Bet CMA ; 1.98; 28000;occ; 97; 0;39234
 3; -413.8; 01-SEP-2009 00:53:39; Dark ; 51.0; 101; 11Alp Lep ; 2.58; 7000;occ; 102; 0;39234
 4; -237.7; 01-SEP-2009 00:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39234
 5; 487.5; 01-SEP-2009 01:08:40; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39235
 6; 962.2; 01-SEP-2009 01:16:35; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39235
 7; 1329.7; 01-SEP-2009 01:22:43; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;39235
 8; 2249.9; 01-SEP-2009 01:38:03; Bright; 47.5; 90; 54Alp Peg ; 2.49; 11000;occ; 95; 0;39235
 9; 2501.4; 01-SEP-2009 01:42:14; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39235
 10; 3142.8; 01-SEP-2009 01:52:56; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39235
 11; 3270.9; 01-SEP-2009 01:55:04; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39235
 12; 4155.8; 01-SEP-2009 02:09:49; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;39235
 13; 4378.2; 01-SEP-2009 02:13:31; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39235
 14; 4687.0; 01-SEP-2009 02:18:40; Dark ; 64.0; 151; 13Mu Gem ; 2.89; 3000;occ; 128; 0;39235
 15; 4792.9; 01-SEP-2009 02:20:26; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39235

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1; -966.8; 01-SEP-2009 02:25:02; Dark ; 66.5; 14; 58Alp Ori ; 0.87; 3000;occ; 133; 0;39235
 2; -715.8; 01-SEP-2009 02:29:13; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39235
 3; -584.8; 01-SEP-2009 02:31:24; Dark ; 49.5; 47; 2Bet CMA ; 1.98; 28000;occ; 99; 0;39235
 4; -412.2; 01-SEP-2009 02:34:17; Dark ; 52.5; 101; 11Alp Lep ; 2.58; 7000;occ; 105; 0;39235
 5; -236.5; 01-SEP-2009 02:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39235
 6; 488.8; 01-SEP-2009 02:49:18; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39236
 7; 962.7; 01-SEP-2009 02:57:12; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39236
 8; 1330.1; 01-SEP-2009 03:03:19; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;39236
 9; 2249.4; 01-SEP-2009 03:18:38; Bright; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;39236
 10; 2500.7; 01-SEP-2009 03:22:50; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;39236
 11; 3142.5; 01-SEP-2009 03:33:31; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39236
 12; 3270.4; 01-SEP-2009 03:35:39; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39236

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1; -1880.5; 01-SEP-2009 03:50:24; Bright; 58.5; 6; 13Alp Aur ; 0.08; 3400;occ; 117; 0;39236
 2; -1657.5; 01-SEP-2009 03:54:07; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39236
 3; -1348.6; 01-SEP-2009 03:59:16; Dark ; 53.5; 151; 13Mu Gem ; 2.89; 3000;occ; 107; 0;39236
 4; -1242.9; 01-SEP-2009 04:01:02; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;39236
 5; -965.8; 01-SEP-2009 04:05:39; Dark ; 74.0; 14; 58Alp Ori ; 0.87; 3000;occ; 148; 0;39236
 6; -714.7; 01-SEP-2009 04:09:50; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39236
 7; -584.2; 01-SEP-2009 04:12:01; Dark ; 49.0; 47; 2Bet CMA ; 1.98; 28000;occ; 98; 0;39236
 8; -411.4; 01-SEP-2009 04:14:53; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;39236
 9; -235.3; 01-SEP-2009 04:17:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39236
 10; 489.9; 01-SEP-2009 04:29:55; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39237
 11; 963.6; 01-SEP-2009 04:37:48; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39237
 12; 1330.4; 01-SEP-2009 04:43:55; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39237
 13; 2248.7; 01-SEP-2009 04:59:14; Bright; 70.0; 90; 54Alp Peg ; 2.49; 11000;occ; 140; 0;39237
 14; 2500.2; 01-SEP-2009 05:03:25; Bright; 43.5; 164; 44Eta Peg ; 2.95; 5400;occ; 87; 0;39237
 15; 3141.8; 01-SEP-2009 05:14:07; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39237
 16; 3269.5; 01-SEP-2009 05:16:14; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39237

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 2; -1657.7; 01-SEP-2009 05:34:43; Bright; 46.5; 107; 37The Aur ; 2.65; 11000;occ; 93; 0;39237
 3; -1348.2; 01-SEP-2009 05:39:53; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;39237
 4; -1242.4; 01-SEP-2009 05:41:38; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;39237
 5; -964.9; 01-SEP-2009 05:46:16; Dark ; 71.5; 14; 58Alp Ori ; 0.87; 3000;occ; 143; 0;39237
 6; -713.5; 01-SEP-2009 05:50:27; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39237
 7; -583.2; 01-SEP-2009 05:52:38; Dark ; 48.0; 47; 2Bet CMA ; 1.98; 28000;occ; 96; 0;39237
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 9; -234.2; 01-SEP-2009 05:58:27; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39237
 10; 491.2; 01-SEP-2009 06:10:32; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39238
 11; 964.2; 01-SEP-2009 06:18:25; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;39238
 12; 1330.7; 01-SEP-2009 06:24:32; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;39238
 13; 2248.4; 01-SEP-2009 06:39:49; Bright; 46.5; 90; 54Alp Peg ; 2.49; 11000;occ; 93; 0;39238
 14; 2499.6; 01-SEP-2009 06:44:00; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39238
 15; 3141.0; 01-SEP-2009 06:54:42; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;39238
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1; 968.7; 01-SEP-2009 19:43:17; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;39246
 2; 1332.8; 01-SEP-2009 19:49:21; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;39246
 3; 2244.0; 01-SEP-2009 20:04:32; Bright; 46.0; 90; 54Alp Peg ; 2.49; 11000;occ; 92; 0;39246
 4; 2495.9; 01-SEP-2009 20:08:44; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;39246

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11; 2480.7; 04-SEP-2009 06:49:26; Bright; 42.0; 164; 44Eta Peg ; 2.95; 5400;occ; 84; 0;39281
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11; 1521.8; 13-SEP-2009 06:50:41; Dark ; 59.5; 52; 16Bet Cet ; 2.04; 4500;occ; 119; 0;39410
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15; 3045.3; 13-SEP-2009 07:16:04; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39410
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 5; 3041.3; 13-SEP-2009 20:40:48; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39418
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 5; 697.5; 13-SEP-2009 21:42:20; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39419
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 11; 3151.9; 13-SEP-2009 22:23:14; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39419
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 15; 4887.4; 14-SEP-2009 00:32:46; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;39420
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 7; -164.5; 13-SEP-2009 08:03:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39410
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 5; 3156.7; 13-SEP-2009 08:58:32; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;39411
 6; 4175.6; 13-SEP-2009 09:15:31; Bright; 56.0; 42; 34Bet Aur ; 1.90; 10200;occ; 112; 0;39411
 7; 4476.5; 13-SEP-2009 09:20:31; Bright; 42.5; 24; 66Alp Gem ; 1.58; 10200;occ; 85; 0;39411
 8; 4662.1; 13-SEP-2009 09:23:37; Dark ; 58.0; 170; 27Eps Gem ; 3.00; 9700;occ; 116; 0;39411
 9; 4984.1; 13-SEP-2009 09:28:59; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;39411
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14; 6725.9; 13-SEP-2009 09:58:01; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39411
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 3; 2563.2; 13-SEP-2009 10:29:14; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39412
 4; 3044.0; 13-SEP-2009 10:37:15; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39412
 5; 3156.0; 13-SEP-2009 10:39:07; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39412
 6; 4175.2; 13-SEP-2009 10:56:06; Bright; 56.5; 42; 34Bet Aur ; 1.90; 10200;occ; 113; 0;39412
 7; 4476.8; 13-SEP-2009 11:01:08; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;39412
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 4; 3043.5; 13-SEP-2009 12:17:50; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;39413
 5; 3155.4; 13-SEP-2009 12:19:42; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39413
 6; 4174.8; 13-SEP-2009 12:36:42; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;39413
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4; -1147.2; 14-SEP-2009 03:53:59; Dark ; 32.0; 44; 24Gam Gem ; 1.93; 11000;occ; 64; 0;39422

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16; 3038.5; 14-SEP-2009 06:44:20; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39424
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 3; 2417.9; 14-SEP-2009 09:55:12; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;39426
 4; 2552.5; 14-SEP-2009 09:57:26; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39426
 5; 3037.7; 14-SEP-2009 10:05:31; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39426
 6; 3147.8; 14-SEP-2009 10:07:21; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;39426
 7; 4171.4; 14-SEP-2009 10:24:25; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;39426
 8; 4478.6; 14-SEP-2009 10:29:32; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;39426
 9; 4667.2; 14-SEP-2009 10:32:41; Dark ; 63.5; 170; 27Eps Gem ; 3.00; 9700;occ; 127; 0;39426
10; 4991.3; 14-SEP-2009 10:38:05; Dark ; 55.0; 8; 10Alp CMi ; 0.40; 6500;occ; 110; 0;39426
11; 5527.3; 14-SEP-2009 10:47:01; Dark ; 56.5; 1; 9Alp CMA ; -1.44; 11000;occ; 113; 0;39426
12; 5664.9; 14-SEP-2009 10:49:19; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;39426
13; 5885.6; 14-SEP-2009 10:52:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39426
14; 6741.7; 14-SEP-2009 11:07:15; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;39426
15; 7560.1; 14-SEP-2009 11:20:54; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;39426
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 2; 2283.0; 14-SEP-2009 11:33:33; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;39427
 3; 2417.6; 14-SEP-2009 11:35:47; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;39427
 4; 2551.9; 14-SEP-2009 11:38:01; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39427
 5; 3037.0; 14-SEP-2009 11:46:07; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39427
 6; 3147.2; 14-SEP-2009 11:47:57; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;39427
 7; 4171.1; 14-SEP-2009 12:05:01; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;39427
 8; 4478.7; 14-SEP-2009 12:10:08; Bright; 46.0; 24; 66Alp Gem ; 1.58; 10200;occ; 92; 0;39427
 9; 4667.5; 14-SEP-2009 12:13:17; Dark ; 60.0; 170; 27Eps Gem ; 3.00; 9700;occ; 120; 0;39427
10; 4991.8; 14-SEP-2009 12:18:41; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;39427
11; 5528.3; 14-SEP-2009 12:27:38; Dark ; 56.5; 1; 9Alp CMA ; -1.44; 11000;occ; 113; 0;39427
12; 5665.5; 14-SEP-2009 12:29:55; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;39427
13; 5886.5; 14-SEP-2009 12:33:36; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39427
14; 6742.7; 14-SEP-2009 12:47:52; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39427
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 5; 3036.7; 14-SEP-2009 13:26:42; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39428
 6; 3146.8; 14-SEP-2009 13:28:32; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39428
 7; 4170.8; 14-SEP-2009 13:45:36; Bright; 31.0; 42; 34Bet Aur ; 1.90; 10200;occ; 62; 0;39428
 8; 4478.9; 14-SEP-2009 13:50:44; Bright; 47.5; 24; 66Alp Gem ; 1.58; 10200;occ; 95; 0;39428
 9; 4667.9; 14-SEP-2009 13:53:53; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39428
 10; 4992.5; 14-SEP-2009 13:59:18; Dark ; 59.0; 8; 10Alp CMi ; 0.40; 6500;occ; 118; 0;39428
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 13; 5887.5; 14-SEP-2009 14:14:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39428
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 3; 2281.8; 14-SEP-2009 14:54:43; Bright; 43.0; 140; 88Gam Peg ; 2.83; 26000;occ; 86; 0;39429
 4; 2417.1; 14-SEP-2009 14:56:58; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;39429
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 6; 3036.1; 14-SEP-2009 15:07:17; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39429
 7; 3146.3; 14-SEP-2009 15:09:08; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39429
 8; 4170.6; 14-SEP-2009 15:26:12; Bright; 31.0; 42; 34Bet Aur ; 1.90; 10200;occ; 62; 0;39429
 9; 4478.9; 14-SEP-2009 15:31:20; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;39429
 10; 4668.4; 14-SEP-2009 15:34:30; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39429
 11; 4993.3; 14-SEP-2009 15:39:55; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;39429
 12; 5530.4; 14-SEP-2009 15:48:52; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;39429
 13; 5667.2; 14-SEP-2009 15:51:08; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;39429
 14; 5888.4; 14-SEP-2009 15:54:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39429
 15; 6018.2; 14-SEP-2009 15:57:00; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39429
 16; 6744.9; 14-SEP-2009 16:09:06; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39429

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 3; 2281.1; 14-SEP-2009 16:35:18; Bright; 49.5; 140; 88Gam Peg ; 2.83; 26000;occ; 99; 0;39430
 4; 2416.7; 14-SEP-2009 16:37:34; Bright; 43.0; 93; 53Bet Peg ; 2.52; 3100;occ; 86; 0;39430
 5; 2549.5; 14-SEP-2009 16:39:47; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39430
 6; 3035.7; 14-SEP-2009 16:47:53; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39430
 7; 3145.6; 14-SEP-2009 16:49:43; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;39430
 8; 4170.5; 14-SEP-2009 17:06:48; Bright; 26.0; 42; 34Bet Aur ; 1.90; 10200;occ; 52; 0;39430
 9; 4479.1; 14-SEP-2009 17:11:56; Bright; 57.5; 24; 66Alp Gem ; 1.58; 10200;occ; 115; 0;39430
 10; 4668.7; 14-SEP-2009 17:15:06; Dark ; 59.5; 170; 27Eps Gem ; 3.00; 9700;occ; 119; 0;39430
 11; 4993.7; 14-SEP-2009 17:20:31; Dark ; 57.0; 8; 10Alp CMi ; 0.40; 6500;occ; 114; 0;39430
 12; 5531.5; 14-SEP-2009 17:29:29; Dark ; 59.0; 1; 9Alp CMA ; -1.44; 11000;occ; 118; 0;39430
 13; 5668.1; 14-SEP-2009 17:31:45; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;39430
 14; 5889.4; 14-SEP-2009 17:35:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39430
 15; 6019.5; 14-SEP-2009 17:37:37; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;39430
 16; 6745.9; 14-SEP-2009 17:49:43; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39430

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 3; 2280.3; 14-SEP-2009 18:15:54; Bright; 49.0; 140; 88Gam Peg ; 2.83; 26000;occ; 98; 0;39431
 4; 2416.5; 14-SEP-2009 18:18:10; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39431
 5; 2548.8; 14-SEP-2009 18:20:22; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39431
 6; 3035.3; 14-SEP-2009 18:28:29; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39431
 7; 3144.9; 14-SEP-2009 18:30:18; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39431
 8; 4170.1; 14-SEP-2009 18:47:23; Bright; 26.0; 42; 34Bet Aur ; 1.90; 10200;occ; 52; 0;39431
 9; 4479.3; 14-SEP-2009 18:52:33; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;39431
 10; 4669.0; 14-SEP-2009 18:55:42; Dark ; 60.0; 170; 27Eps Gem ; 3.00; 9700;occ; 120; 0;39431
 11; 4994.2; 14-SEP-2009 19:01:08; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;39431
 12; 5532.5; 14-SEP-2009 19:10:06; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;39431
 13; 5669.0; 14-SEP-2009 19:12:22; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;39431
 14; 5890.3; 14-SEP-2009 19:16:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39431
 15; 6020.5; 14-SEP-2009 19:18:14; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39431
 16; 6747.1; 14-SEP-2009 19:30:20; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39431

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 3; -143.0; 15-SEP-2009 00:17:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39434

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5; 714.0; 15-SEP-2009 00:32:11; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;39435
6; 1525.4; 15-SEP-2009 00:45:42; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39435
7; 2181.7; 15-SEP-2009 00:56:39; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;39435
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9; 2415.4; 15-SEP-2009 01:00:32; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;39435
10; 2545.7; 15-SEP-2009 01:02:43; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39435
11; 3033.1; 15-SEP-2009 01:10:50; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39435
12; 3142.5; 15-SEP-2009 01:12:39; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39435
13; 4479.7; 15-SEP-2009 01:34:57; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;39435
14; 4670.2; 15-SEP-2009 01:38:07; Dark ; 63.0; 170; 27Eps Gem ; 3.00; 9700;occ; 126; 0;39435
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3; -142.1; 15-SEP-2009 01:58:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39435
4; -10.3; 15-SEP-2009 02:00:42; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39435
5; 714.9; 15-SEP-2009 02:12:48; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39436
6; 1525.5; 15-SEP-2009 02:26:18; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;39436
7; 2181.6; 15-SEP-2009 02:37:14; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;39436
8; 2276.9; 15-SEP-2009 02:38:50; Bright; 49.5; 140; 88Gam Peg ; 2.83; 26000;occ; 99; 0;39436
9; 2414.9; 15-SEP-2009 02:41:08; Bright; 42.5; 93; 53Bet Peg ; 2.52; 3100;occ; 85; 0;39436
10; 2545.1; 15-SEP-2009 02:43:18; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39436
11; 3032.8; 15-SEP-2009 02:51:26; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;39436
12; 3142.0; 15-SEP-2009 02:53:15; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39436
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3; -1039.3; 15-SEP-2009 03:24:09; Dark ; 52.5; 8; 10Alp CMi ; 0.40; 6500;occ; 105; 0;39436
4; -498.4; 15-SEP-2009 03:33:10; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;39436
5; -363.0; 15-SEP-2009 03:35:26; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;39436
6; -141.1; 15-SEP-2009 03:39:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39436
7; -9.1; 15-SEP-2009 03:41:20; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39436
8; 716.1; 15-SEP-2009 03:53:25; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39437
9; 1525.8; 15-SEP-2009 04:06:54; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39437
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11; 2276.1; 15-SEP-2009 04:19:25; Bright; 50.0; 140; 88Gam Peg ; 2.83; 26000;occ; 100; 0;39437
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13; 2544.4; 15-SEP-2009 04:23:53; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;39437
14; 3032.5; 15-SEP-2009 04:32:01; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;39437
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6; -140.2; 15-SEP-2009 05:19:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39437
7; -7.8; 15-SEP-2009 05:21:57; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;39437
8; 716.8; 15-SEP-2009 05:34:02; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39438
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13; 2543.6; 15-SEP-2009 06:04:28; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;39438
14; 3032.0; 15-SEP-2009 06:12:37; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39438
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7; 801.0; 21-SEP-2009 07:27:30; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;39525
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