

GOMOS Daily Report 05-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	08SEP2009 04:50:49
Data source version	GOMOS/5.00
Start time of products	05SEP2009 00:03:04
Stop time of products	05SEP2009 23:54:16
Store outputs in DB	Yes
Nb of level 1b prods	76
Nb of prods with errors	0

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

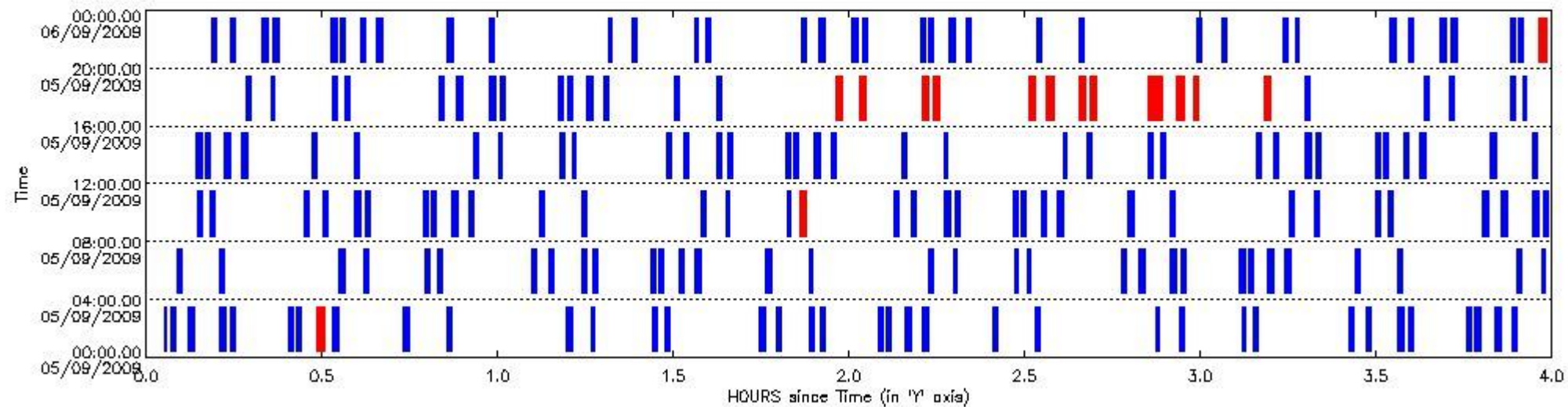
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

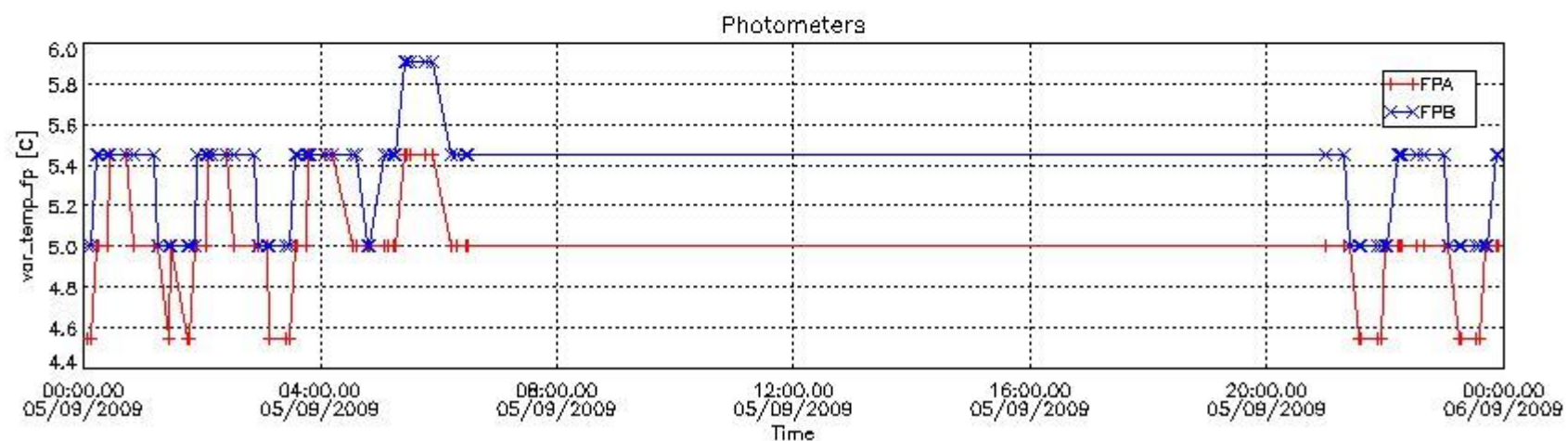
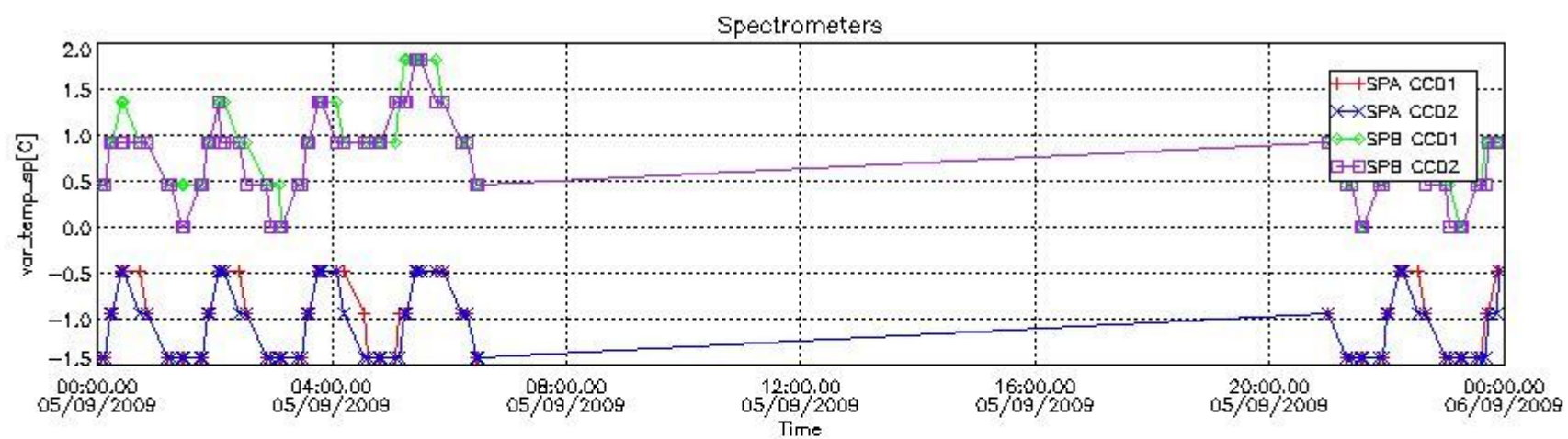
UTC start time	Star name	Star ID	Orbit
05-SEP-2009 00:29:02	11AlpLep	101	39291
05-SEP-2009 09:51:30	27GamCas	76	39297
05-SEP-2009 17:57:41	54AlpPeg	90	39302
05-SEP-2009 18:01:54	44EtaPeg	164	39302
05-SEP-2009 18:12:24	11BetCas	74	39302
05-SEP-2009 18:14:26	27GamCas	76	39302
05-SEP-2009 18:30:40	34BetAur	42	39302
05-SEP-2009 18:33:40	37TheAur	107	39302
05-SEP-2009 18:39:12	13MuGem	151	39302
05-SEP-2009 18:41:03	24GamGem	44	39302
05-SEP-2009 18:51:01	9AlpCMa	1	39302
05-SEP-2009 18:52:28	2BetCMa	47	39302
05-SEP-2009 18:55:52	11AlpLep	101	39302
05-SEP-2009 18:58:43	DSA1062	0	39302
05-SEP-2009 19:10:46	The1Eri	157	39303

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_1PNPDE20090905_000304_000000262082_00159_39291_0975.N1	05-SEP-2009 00:03:04	Twi_and_stray	26.000	6	13Alp Aur	0.080000	3400.0	52	39291	No
2	GOM_TRA_1PNPDE20090905_000405_000000502082_00159_39291_0976.N1	05-SEP-2009 00:04:05	Bright	50.000	42	34Bet Aur	1.9000	10200.	100	39291	No
3	GOM_TRA_1PNPDE20090905_000703_000000732082_00159_39291_0977.N1	05-SEP-2009 00:07:03	Bright	73.000	107	37The Aur	2.6490	11000.	146	39291	No
4	GOM_TRA_1PNPDE20090905_001231_000000622082_00159_39291_0978.N1	05-SEP-2009 00:12:31	Twi_and_stray	62.000	151	13Mu Gem	2.8900	3000.0	124	39291	No
5	GOM_TRA_1PNPDE20090905_001421_000000562082_00159_39291_0979.N1	05-SEP-2009 00:14:21	Twi_and_stray	55.500	44	24Gam Gem	1.9280	11000.	111	39291	No
6	GOM_TRA_1PNPDE20090905_002417_000000562082_00159_39291_1129.N1	05-SEP-2009 00:24:17	Dark	55.500	1	9Alp CMa	-1.4400	11000.	111	39291	No
7	GOM_TRA_1PNPDE20090905_002541_000000502082_00159_39291_1130.N1	05-SEP-2009 00:25:41	Dark	50.000	47	2Bet CMa	1.9760	28000.	100	39291	No
8	GOM_TRA_1PNPDE20090905_004356_000000552082_00160_39292_1131.N1	05-SEP-2009 00:43:56	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39292	No
9	GOM_TRA_1PNPDE20090905_005115_000000472082_00160_39292_1132.N1	05-SEP-2009 00:51:15	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	39292	No
10	GOM_TRA_1PNPDE20090905_011144_000000652082_00160_39292_1133.N1	05-SEP-2009 01:11:44	Bright	65.000	90	54Alp Peg	2.4870	11000.	130	39292	No
11	GOM_TRA_1PNPDE20090905_011557_000000402082_00160_39292_1134.N1	05-SEP-2009 01:15:57	Bright	39.500	164	44Eta Peg	2.9480	5400.0	79	39292	No
12	GOM_TRA_1PNPDE20090905_012629_000000412082_00160_39292_1135.N1	05-SEP-2009 01:26:29	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	39292	No
13	GOM_TRA_1PNPDE20090905_012832_000000442082_00160_39292_1136.N1	05-SEP-2009 01:28:32	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39292	No
14	GOM_TRA_1PNPDE20090905_014440_000000692082_00160_39292_1137.N1	05-SEP-2009 01:44:40	Bright	69.000	42	34Bet Aur	1.9000	10200.	138	39292	No
15	GOM_TRA_1PNPDE20090905_014739_000000492082_00160_39292_1138.N1	05-SEP-2009 01:47:39	Bright	49.000	107	37The Aur	2.6490	11000.	98	39292	No
16	GOM_TRA_1PNPDE20090905_015307_000000592082_00160_39292_1139.N1	05-SEP-2009 01:53:07	Twi_and_stray	58.500	151	13Mu Gem	2.8900	3000.0	117	39292	No
17	GOM_TRA_1PNPDE20090905_015457_000000532082_00160_39292_1140.N1	05-SEP-2009 01:54:57	Twi_and_stray	52.500	44	24Gam Gem	1.9280	11000.	105	39292	No
18	GOM_TRA_1PNPDE20090905_020453_000000572082_00160_39292_1279.N1	05-SEP-2009 02:04:53	Dark	57.000	1	9Alp CMa	-1.4400	11000.	114	39292	No
19	GOM_TRA_1PNPDE20090905_020618_000000522082_00160_39292_1280.N1	05-SEP-2009 02:06:18	Dark	51.500	47	2Bet CMa	1.9760	28000.	103	39292	No
20	GOM_TRA_1PNPDE20090905_020938_000000612082_00160_39292_1281.N1	05-SEP-2009 02:09:38	Dark	60.500	101	11Alp Lep	2.5820	7000.0	121	39292	No
21	GOM_TRA_1PNPDE20090905_022433_000000562082_00161_39293_1282.N1	05-SEP-2009 02:24:33	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39293	No
22	GOM_TRA_1PNPDE20090905_023151_000000462082_00161_39293_1283.N1	05-SEP-2009 02:31:51	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	39293	No
23	GOM_TRA_1PNPDE20090905_025219_000000442082_00161_39293_1284.N1	05-SEP-2009 02:52:19	Bright	44.000	90	54Alp Peg	2.4870	11000.	88	39293	No
24	GOM_TRA_1PNPDE20090905_025632_000000412082_00161_39293_1285.N1	05-SEP-2009 02:56:32	Bright	41.000	164	44Eta Peg	2.9480	5400.0	82	39293	No
25	GOM_TRA_1PNPDE20090905_030704_000000432082_00161_39293_1286.N1	05-SEP-2009 03:07:04	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	39293	No
26	GOM_TRA_1PNPDE20090905_030907_000000462082_00161_39293_1287.N1	05-SEP-2009 03:09:07	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	39293	No
27	GOM_TRA_1PNPDE20090905_032516_000000502082_00161_39293_1450.N1	05-SEP-2009 03:25:16	Bright	50.000	42	34Bet Aur	1.9000	10200.	100	39293	No
28	GOM_TRA_1PNPDE20090905_032815_000000512082_00161_39293_1451.N1	05-SEP-2009 03:28:15	Bright	50.500	107	37The Aur	2.6490	11000.	101	39293	No
29	GOM_TRA_1PNPDE20090905_033344_000000592082_00161_39293_1452.N1	05-SEP-2009 03:33:44	Twi_and_stray	59.000	151	13Mu Gem	2.8900	3000.0	118	39293	No
30	GOM_TRA_1PNPDE20090905_033534_000000522082_00161_39293_1453.N1	05-SEP-2009 03:35:34	Twi_and_stray	51.500	44	24Gam Gem	1.9280	11000.	103	39293	No
31	GOM_TRA_1PNPDE20090905_034530_000000492082_00161_39293_1454.N1	05-SEP-2009 03:45:30	Dark	48.500	1	9Alp CMa	-1.4400	11000.	97	39293	No
32	GOM_TRA_1PNPDE20090905_034655_000000512082_00161_39293_1455.N1	05-SEP-2009 03:46:55	Dark	50.500	47	2Bet CMa	1.9760	28000.	101	39293	No
33	GOM_TRA_1PNPDE20090905_035015_000000612082_00161_39293_1456.N1	05-SEP-2009 03:50:15	Dark	60.500	101	11Alp Lep	2.5820	7000.0	121	39293	No
34	GOM_TRA_1PNPDE20090905_040510_000000572082_00162_39294_1457.N1	05-SEP-2009 04:05:10	Dark	56.500	157	The1Eri	2.9060	9300.0	113	39294	No
35	GOM_TRA_1PNPDE20090905_041228_000000462082_00162_39294_1458.N1	05-SEP-2009 04:12:28	Straylight	45.500	84	Alp Phe	2.3970	4500.0	91	39294	No
36	GOM_TRA_1PNPDE20090905_043255_000000652082_00162_39294_1459.N1	05-SEP-2009 04:32:55	Bright	65.000	90	54Alp Peg	2.4870	11000.	130	39294	No
37	GOM_TRA_1PNPDE20090905_043708_000000422082_00162_39294_1460.N1	05-SEP-2009 04:37:08	Bright	42.000	164	44Eta Peg	2.9480	5400.0	84	39294	No
38	GOM_TRA_1PNPDE20090905_044739_000000422082_00162_39294_1461.N1	05-SEP-2009 04:47:39	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	39294	No
39	GOM_TRA_1PNPDE20090905_044943_000000452082_00162_39294_1462.N1	05-SEP-2009 04:49:43	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	39294	No
40	GOM_TRA_1PNPDE20090905_050552_000000492082_00162_39294_1639.N1	05-SEP-2009 05:05:52	Bright	48.500	42	34Bet Aur	1.9000	10200.	97	39294	No
41	GOM_TRA_1PNPDE20090905_050851_000000492082_00162_39294_1640.N1	05-SEP-2009 05:08:51	Bright	48.500	107	37The Aur	2.6490	11000.	97	39294	No
42	GOM_TRA_1PNPDE20090905_051420_000000562082_00162_39294_1641.N1	05-SEP-2009 05:14:20	Twi_and_stray	55.500	151	13Mu Gem	2.8900	3000.0	111	39294	No
43	GOM_TRA_1PNPDE20090905_051610_000000512082_00162_39294_1642.N1	05-SEP-2009 05:16:10	Twi_and_stray	51.000	44	24Gam Gem	1.9280	11000.	102	39294	No
44	GOM_TRA_1PNPDE20090905_052607_000000542082_00162_39294_1643.N1	05-SEP-2009 05:26:07	Dark	54.000	1	9Alp CMa	-1.4400	11000.	108	39294	No
45	GOM_TRA_1PNPDE20090905_052732_000000512082_00162_39294_1644.N1	05-SEP-2009 05:27:32	Dark	51.000	47	2Bet CMa	1.9760	28000.	102	39294	No
46	GOM_TRA_1PNPDE20090905_053052_000000602082_00162_39294_1645.N1	05-SEP-2009 05:30:52	Dark	60.000	101	11Alp Lep	2.5820	7000.0	120	39294	No
47	GOM_TRA_1PNPDE20090905_054547_000000562082_00163_39295_1646.N1	05-SEP-2009 05:45:47	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39295	No
48	GOM_TRA_1PNPDE20090905_055304_000000472082_00163_39295_1647.N1	05-SEP-2009 05:53:04	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	39295	No
49	GOM_TRA_1PNPDE20090905_061330_000000442082_00163_39295_1648.N1	05-SEP-2009 06:13:30	Bright	44.000	90	54Alp Peg	2.4870	11000.	88	39295	No
50	GOM_TRA_1PNPDE20090905_061744_000000412082_00163_39295_1649.N1	05-SEP-2009 06:17:44	Bright	41.000	164	44Eta Peg	2.9480	5400.0	82	39295	No
51	GOM_TRA_1PNPDE20090905_062815_000000432082_00163_39295_1650.N1	05-SEP-2009 06:28:15	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39295	No
52	GOM_TRA_1PNPDE20090905_063018_000000432082_00163_39295_1651.N1	05-SEP-2009 06:30:18	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39295	No
53	GOM_TRA_1PNPDE20090905_205832_000000462082_00172_39304_1994.N1	05-SEP-2009 20:58:32	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	39304	No

54	GOM_TRA_1PNPDE20090905_211850_000000432082_00172_39304_1995.N1	05-SEP-2009 21:18:50	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	39304	No
55	GOM_TRA_1PNPDE20090905_212303_000000402082_00172_39304_1996.N1	05-SEP-2009 21:23:03	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39304	No
56	GOM_TRA_1PNPDE20090905_213333_000000432082_00172_39304_1997.N1	05-SEP-2009 21:33:33	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39304	No
57	GOM_TRA_1PNPDE20090905_213535_000000432082_00172_39304_1998.N1	05-SEP-2009 21:35:35	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39304	No
58	GOM_TRA_1PNPDE20090905_215150_000000512082_00172_39304_1999.N1	05-SEP-2009 21:51:50	Bright	51.000	42	34Bet Aur	1.9000	10200.	102	39304	No
59	GOM_TRA_1PNPDE20090905_215450_000000562082_00172_39304_2000.N1	05-SEP-2009 21:54:50	Bright	56.000	107	37The Aur	2.6490	11000.	112	39304	No
60	GOM_TRA_1PNPDE20090905_220023_000000612082_00172_39304_2001.N1	05-SEP-2009 22:00:23	Twilight_stray	61.000	151	13Mu Gem	2.8900	3000.0	122	39304	No
61	GOM_TRA_1PNPDE20090905_220214_000000552082_00172_39304_2002.N1	05-SEP-2009 22:02:14	Twilight_stray	54.500	44	24Gam Gem	1.9280	11000.	109	39304	No
62	GOM_TRA_1PNPDE20090905_221213_000000532082_00172_39304_2115.N1	05-SEP-2009 22:12:13	Dark	52.500	1	9Alp CMa	-1.4400	11000.	105	39304	No
63	GOM_TRA_1PNPDE20090905_221340_000000482082_00172_39304_2116.N1	05-SEP-2009 22:13:40	Dark	48.000	47	2Bet CMa	1.9760	28000.	96	39304	No
64	GOM_TRA_1PNPDE20090905_221706_000000602082_00172_39304_2117.N1	05-SEP-2009 22:17:06	Dark	60.000	101	11Alp Lep	2.5820	7000.0	120	39304	No
65	GOM_TRA_1PNPDE20090905_223158_000000552082_00173_39305_2118.N1	05-SEP-2009 22:31:58	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39305	No
66	GOM_TRA_1PNPDE20090905_223909_000000532082_00173_39305_2119.N1	05-SEP-2009 22:39:09	Straylight	52.500	84	Alp Phe	2.3970	4500.0	105	39305	No
67	GOM_TRA_1PNPDE20090905_225926_000000452082_00173_39305_2120.N1	05-SEP-2009 22:59:26	Bright	44.500	90	54Alp Peg	2.4870	11000.	89	39305	No
68	GOM_TRA_1PNPDE20090905_230339_000000422082_00173_39305_2121.N1	05-SEP-2009 23:03:39	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	39305	No
69	GOM_TRA_1PNPDE20090905_231408_000000442082_00173_39305_2122.N1	05-SEP-2009 23:14:08	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	39305	No
70	GOM_TRA_1PNPDE20090905_231610_000000442082_00173_39305_2123.N1	05-SEP-2009 23:16:10	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39305	No
71	GOM_TRA_1PNPDE20090905_233225_000000512082_00173_39305_2124.N1	05-SEP-2009 23:32:25	Bright	51.000	42	34Bet Aur	1.9000	10200.	102	39305	No
72	GOM_TRA_1PNPDE20090905_233526_000000532082_00173_39305_2125.N1	05-SEP-2009 23:35:26	Bright	52.500	107	37The Aur	2.6490	11000.	105	39305	No
73	GOM_TRA_1PNPDE20090905_234059_000000672082_00173_39305_2126.N1	05-SEP-2009 23:40:59	Twilight_stray	66.500	151	13Mu Gem	2.8900	3000.0	133	39305	No
74	GOM_TRA_1PNPDE20090905_234250_000000562082_00173_39305_2127.N1	05-SEP-2009 23:42:50	Twilight_stray	55.500	44	24Gam Gem	1.9280	11000.	111	39305	No
75	GOM_TRA_1PNPDE20090905_235250_000000532082_00173_39305_2272.N1	05-SEP-2009 23:52:50	Dark	53.000	1	9Alp CMa	-1.4400	11000.	106	39305	No
76	GOM_TRA_1PNPDE20090905_235416_000000512082_00173_39305_2273.N1	05-SEP-2009 23:54:16	Dark	50.500	47	2Bet CMa	1.9760	28000.	101	39305	No

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



4. Overview of dark signal processing per product

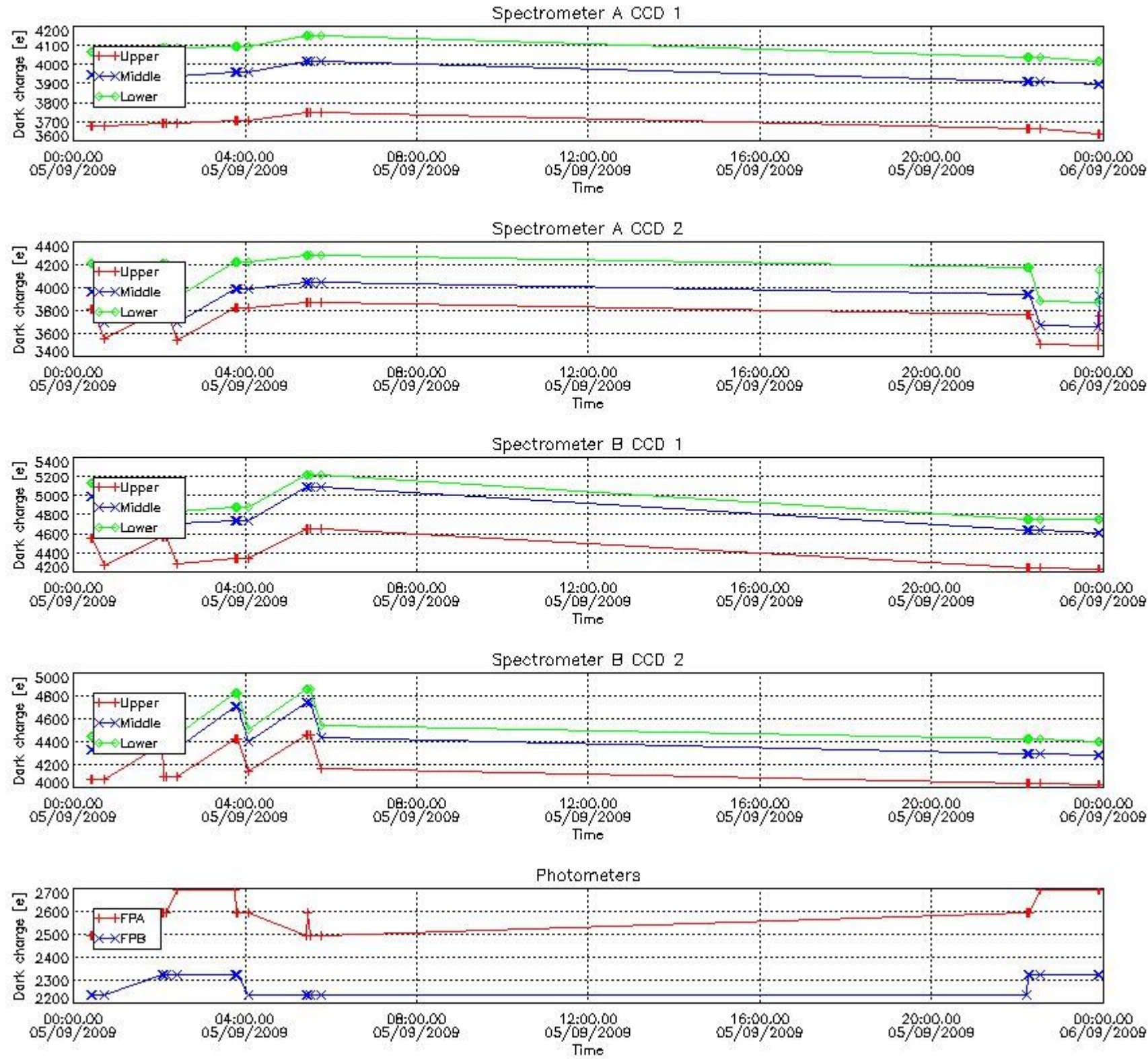
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090905_205832_000000462082_00172_39304_1994.N1	DC map used
GOM_TRA_1PNPDE20090905_211850_000000432082_00172_39304_1995.N1	DC map used
GOM_TRA_1PNPDE20090905_212303_000000402082_00172_39304_1996.N1	DC map used
GOM_TRA_1PNPDE20090905_213333_000000432082_00172_39304_1997.N1	DC map used
GOM_TRA_1PNPDE20090905_213535_000000432082_00172_39304_1998.N1	DC map used
GOM_TRA_1PNPDE20090905_215150_000000512082_00172_39304_1999.N1	DC map used
GOM_TRA_1PNPDE20090905_215450_000000562082_00172_39304_2000.N1	DC map used
GOM_TRA_1PNPDE20090905_220023_000000612082_00172_39304_2001.N1	DC map used
GOM_TRA_1PNPDE20090905_220214_000000552082_00172_39304_2002.N1	DC map used

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



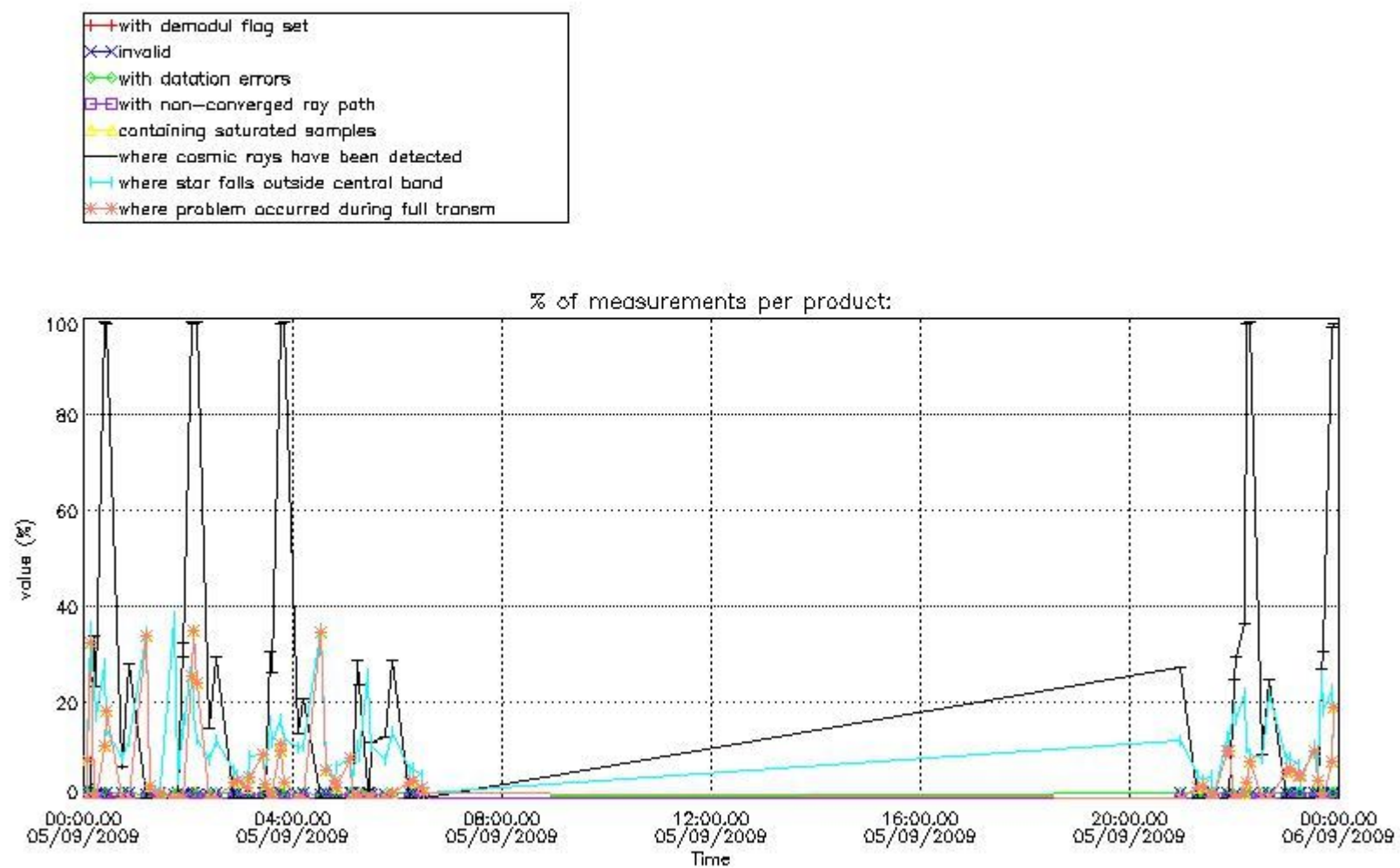
5. Demodulation flag and quality information monitoring

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.

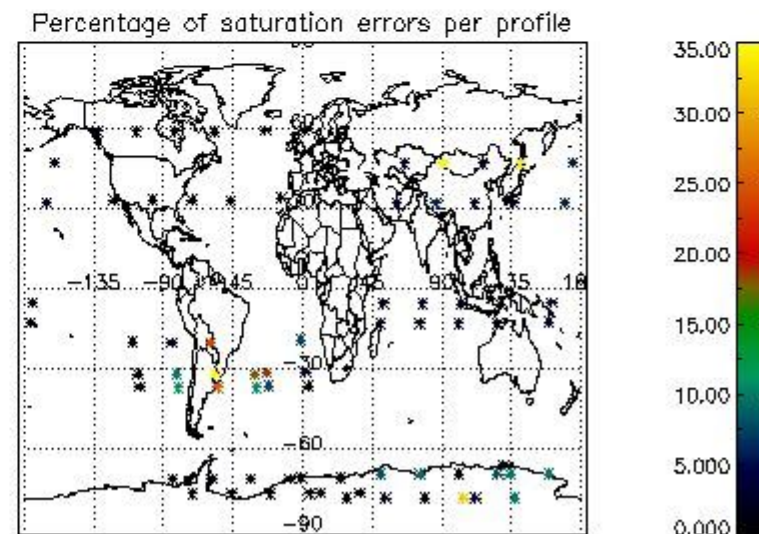
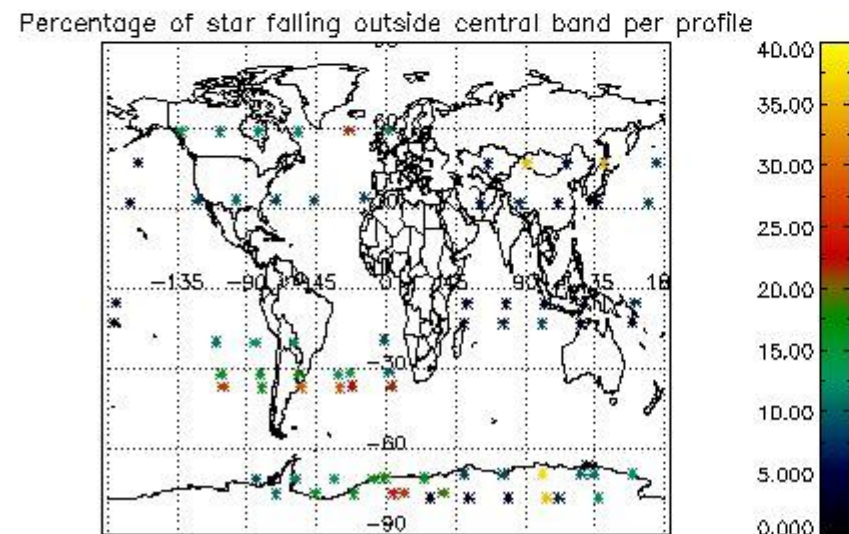
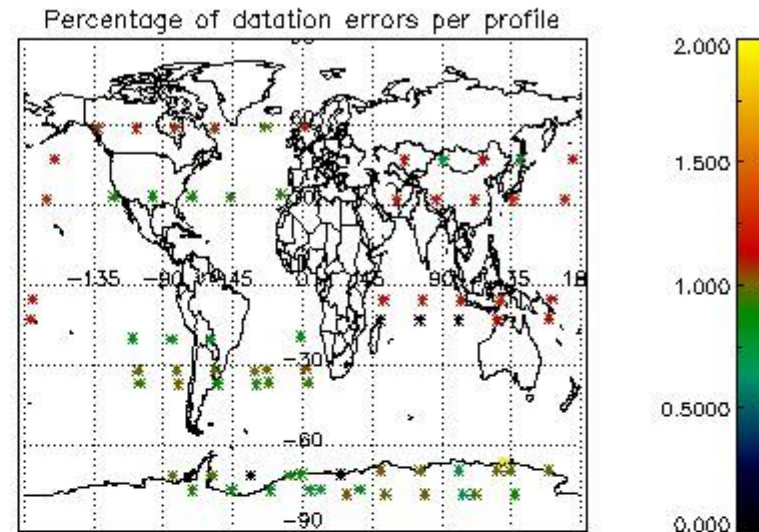
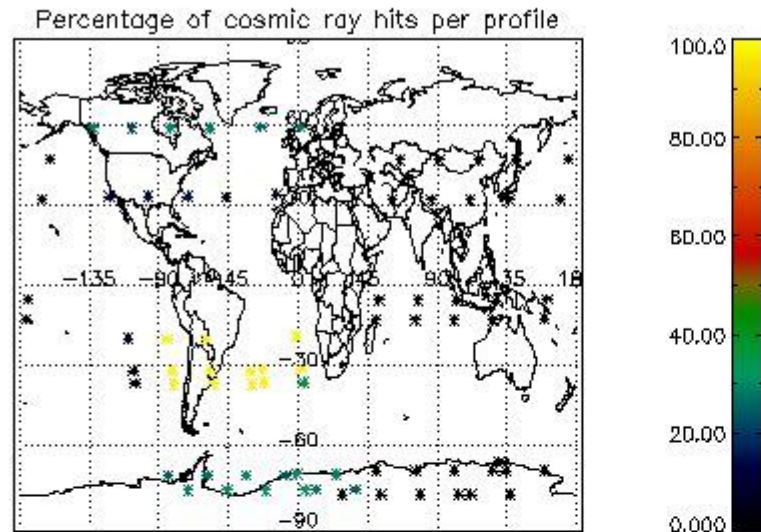
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.2105 %
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)



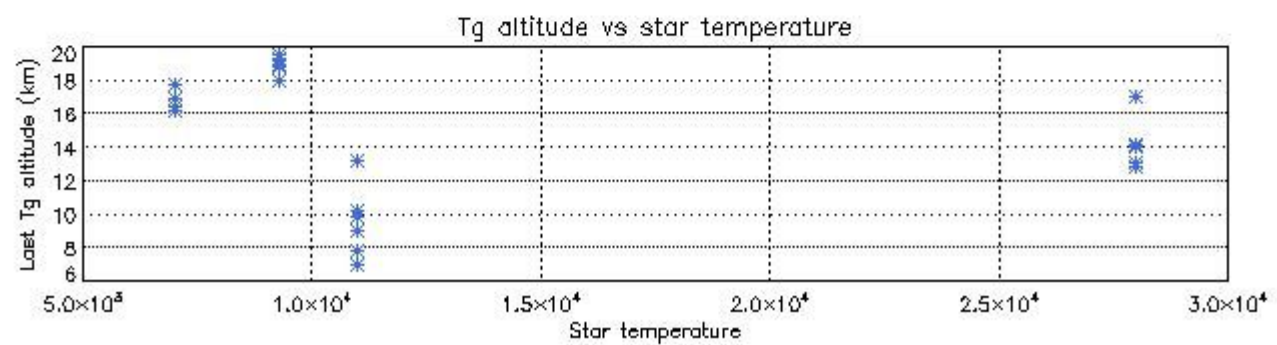
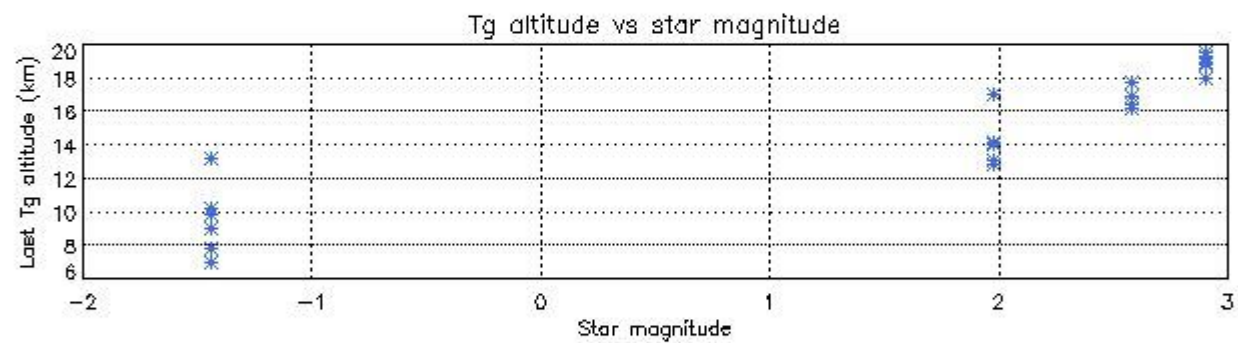
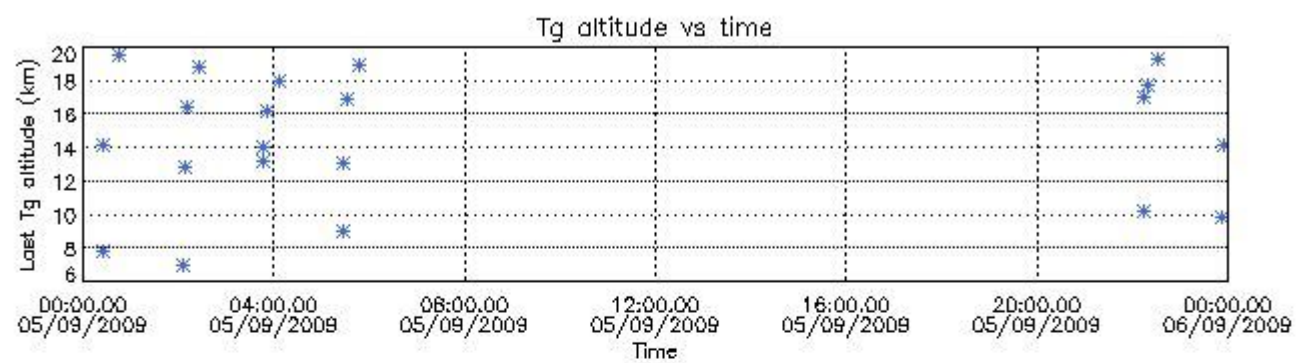
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.460	19.233	NaN
St. deviation:	3.9200	6.0962	NaN
Maximum:	19.497	26.501	NaN
Minimum:	6.9463	3.8000	NaN
Number of data:	21.000	36.000	NaN

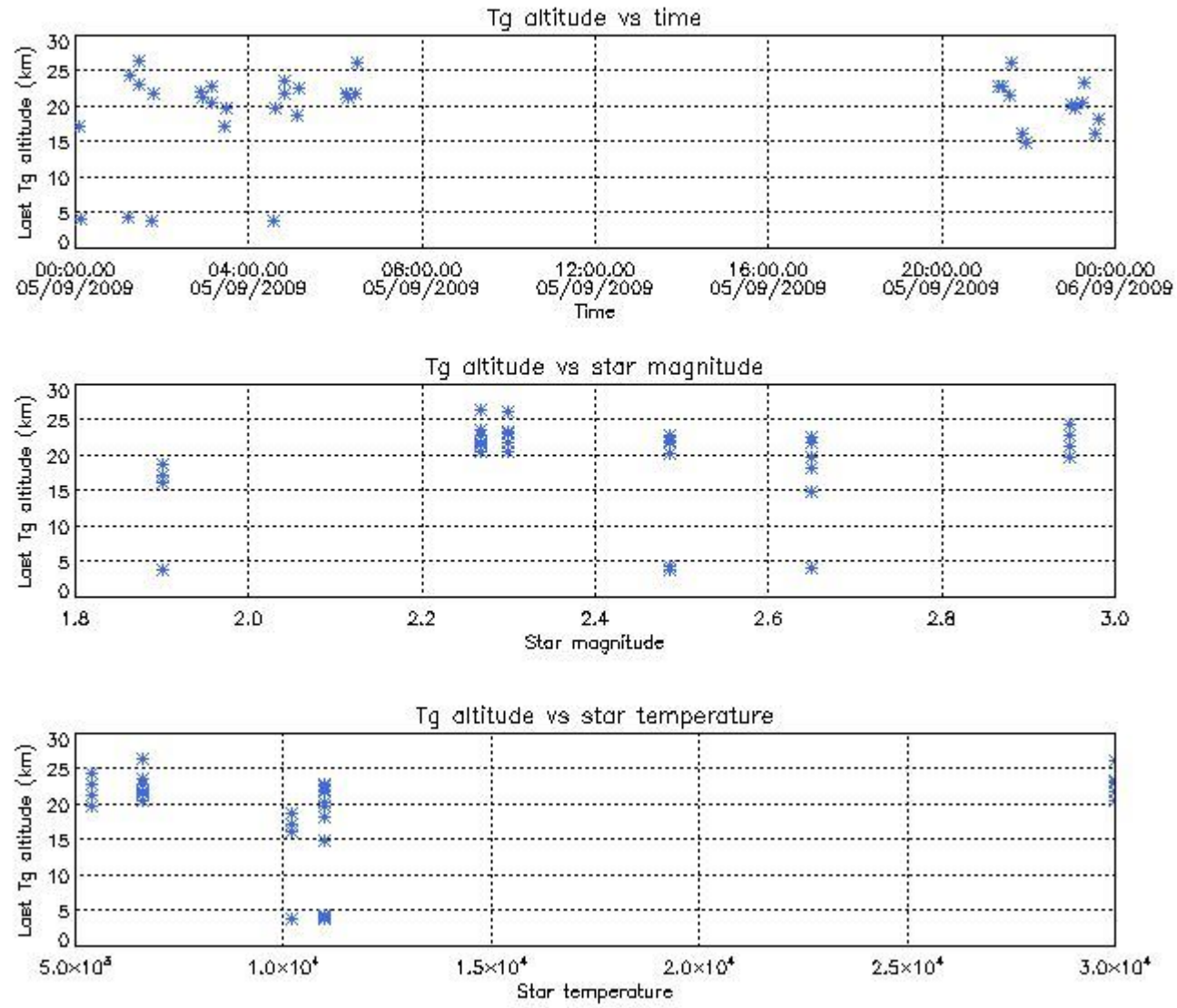
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

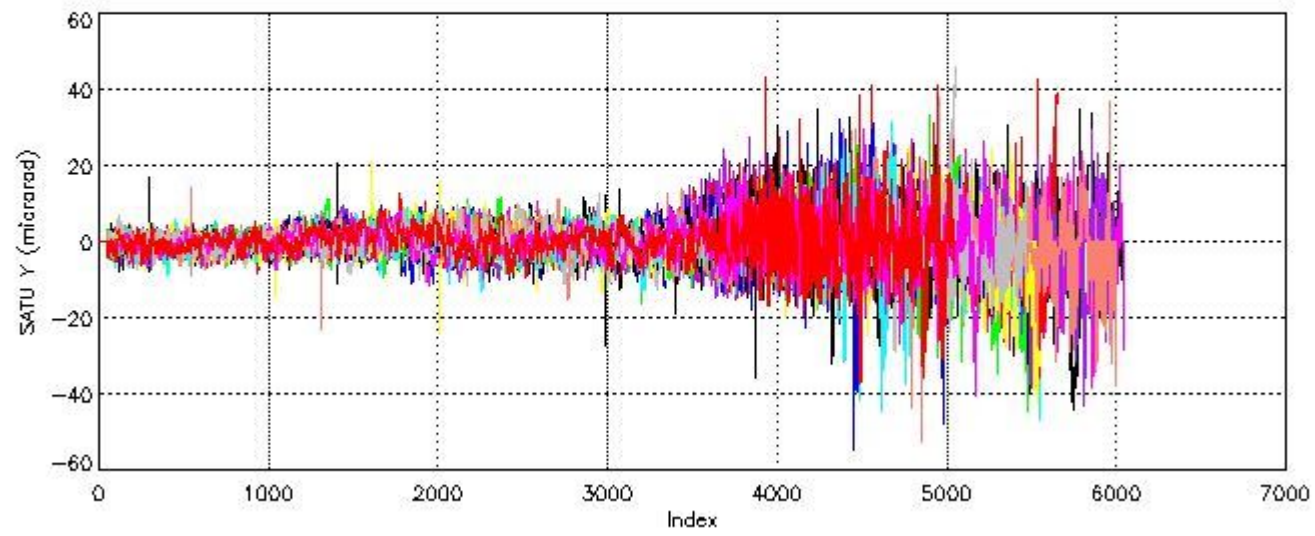
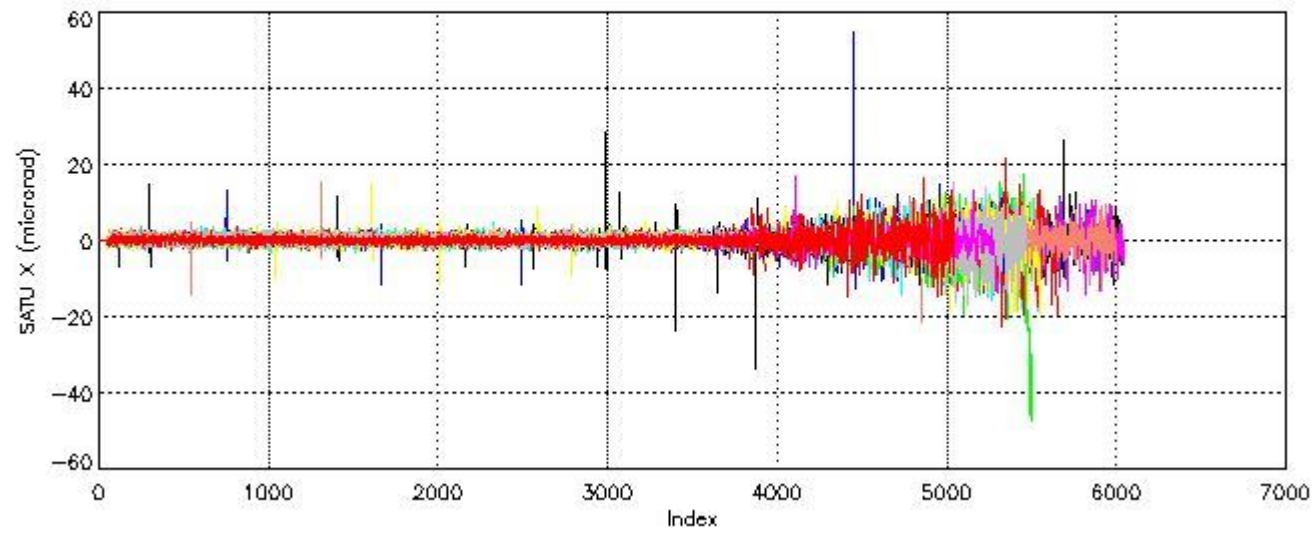


7. Star Acquisition and Tracking Unit (SATU)

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:	0.26716	-0.78800	0.28022	-0.45436
St. deviation:	0.63725	1.8491	0.88026	2.0438
Maximum:	15.300	17.100	4.7000	8.5000
Minimum:	-14.200	-22.900	-3.9000	-8.9000

Number of data:	24950.	24950.	38450.	38450.
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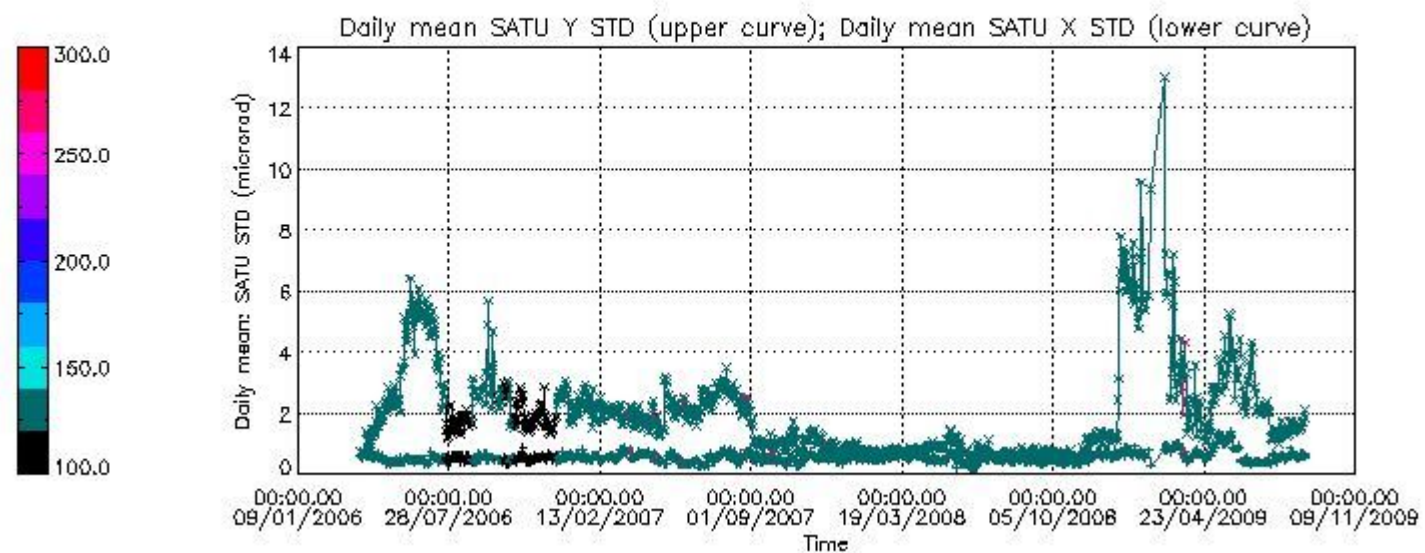
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

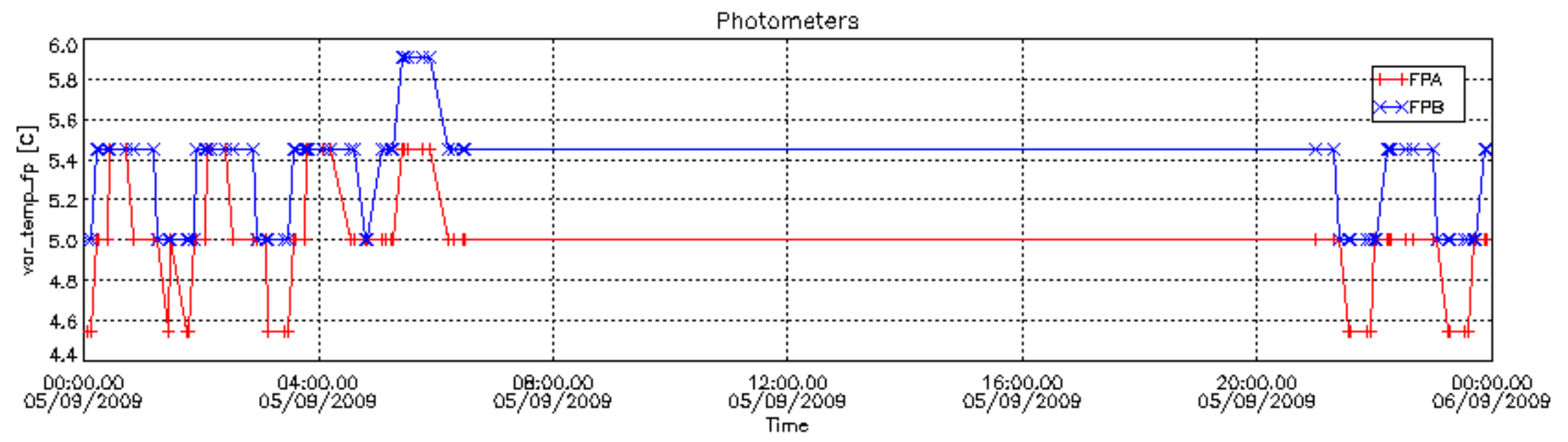
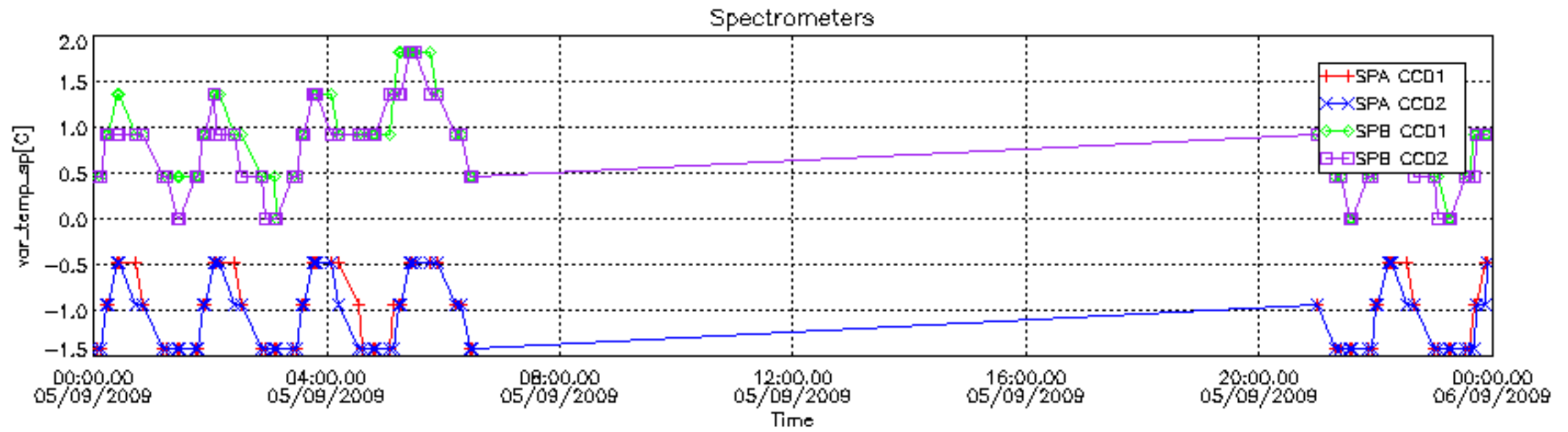
Lower curve: STD of SATU X axis

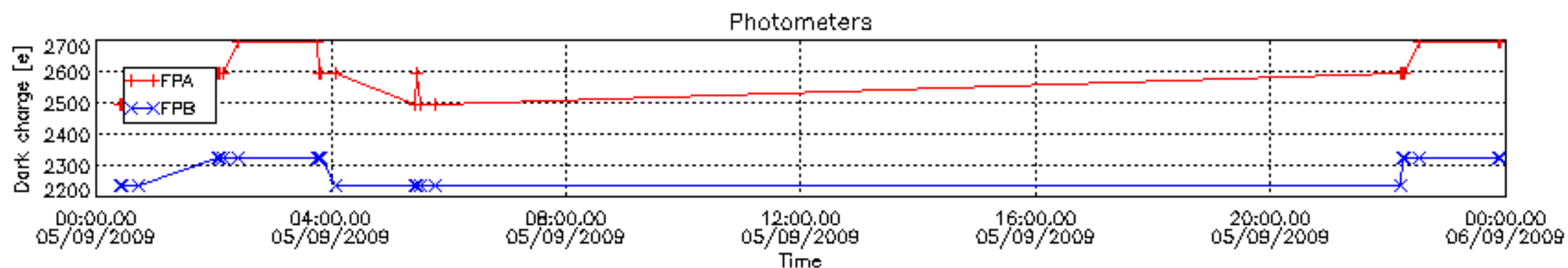
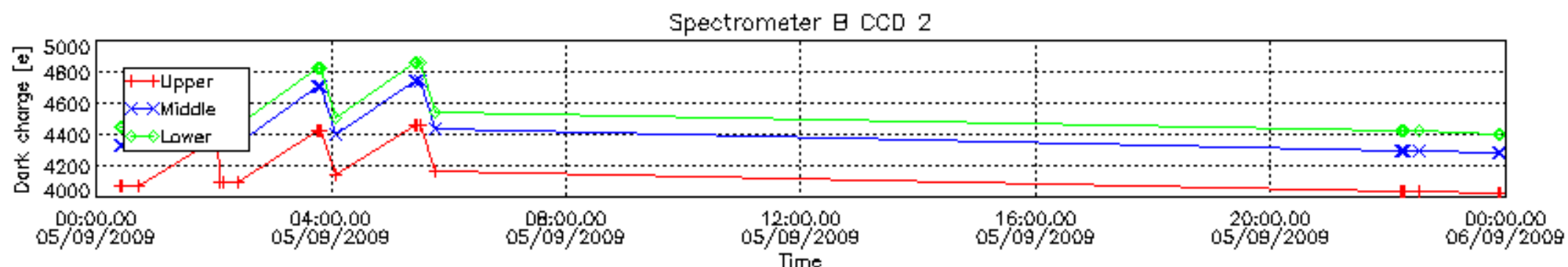
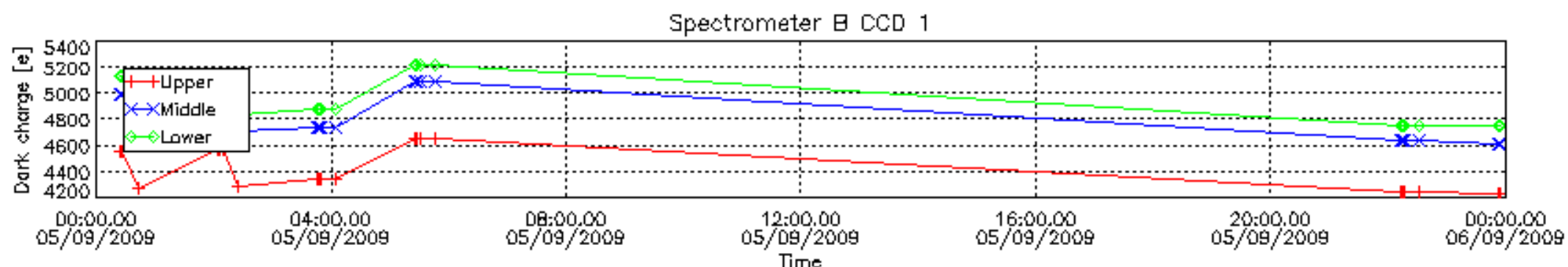
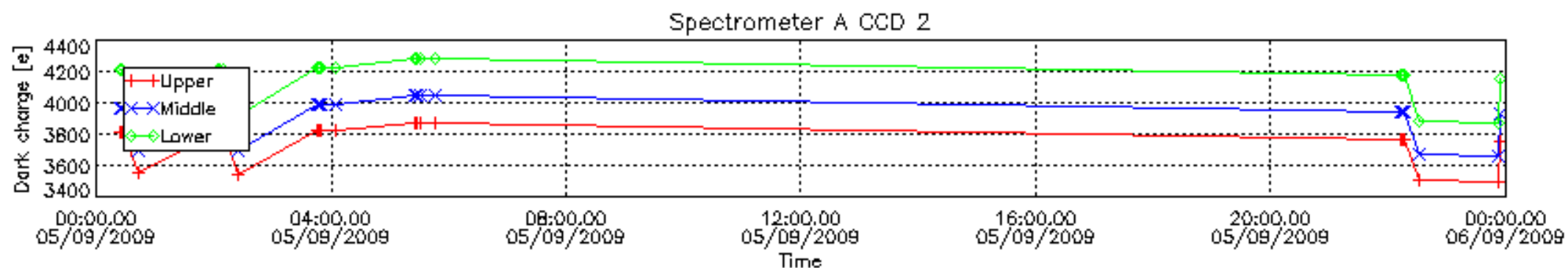
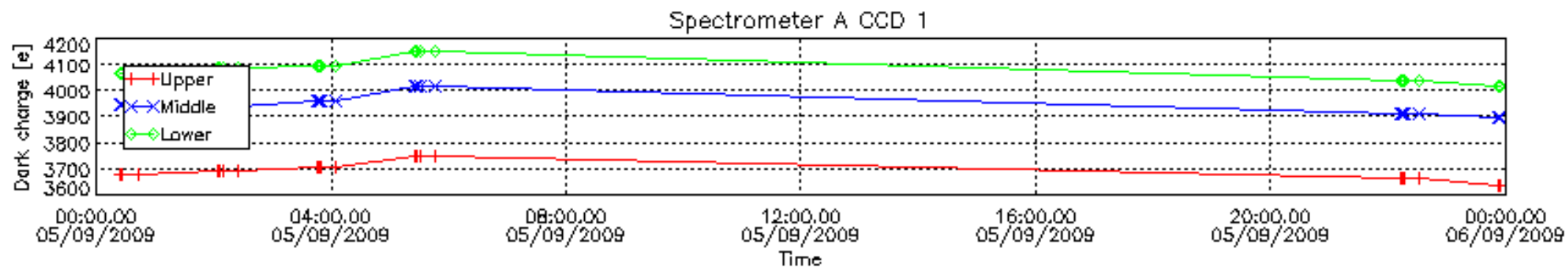


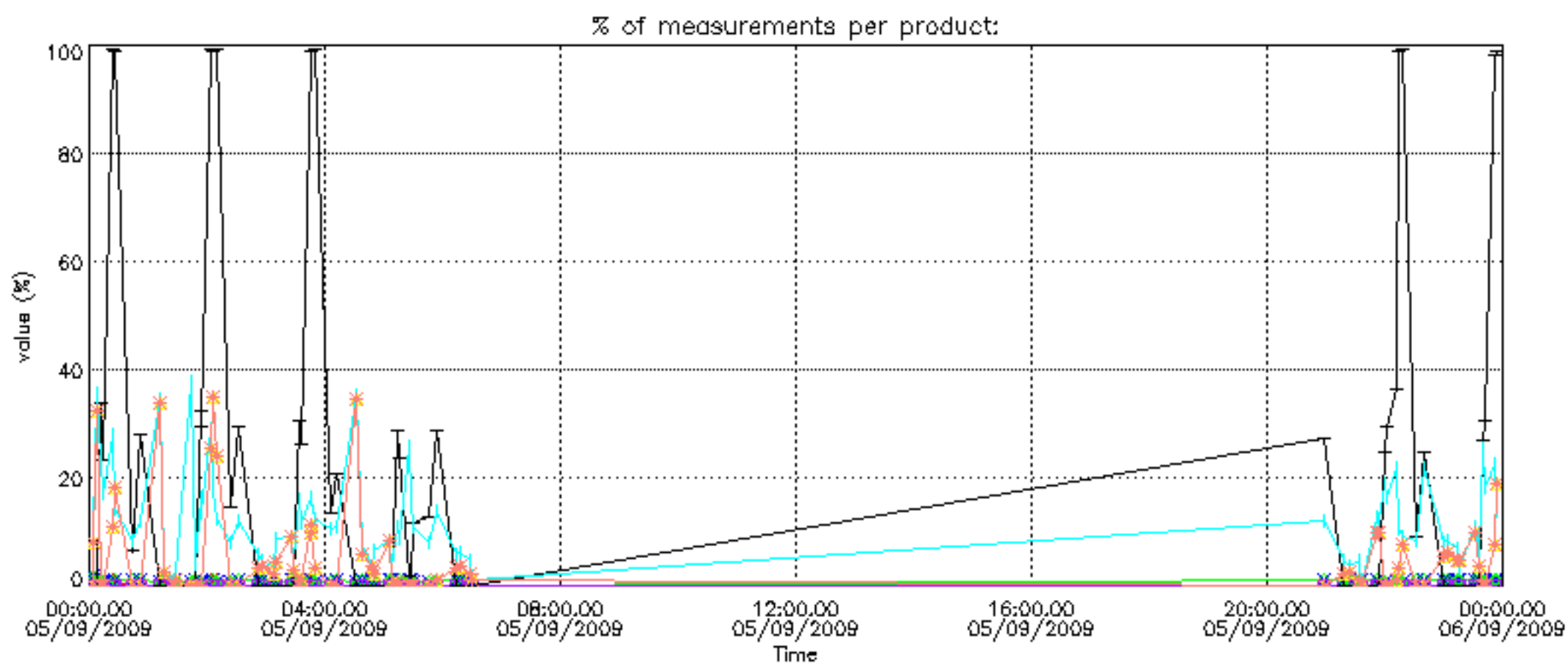
8. Auxiliary Data Files used for the production reported in section 2.4

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.

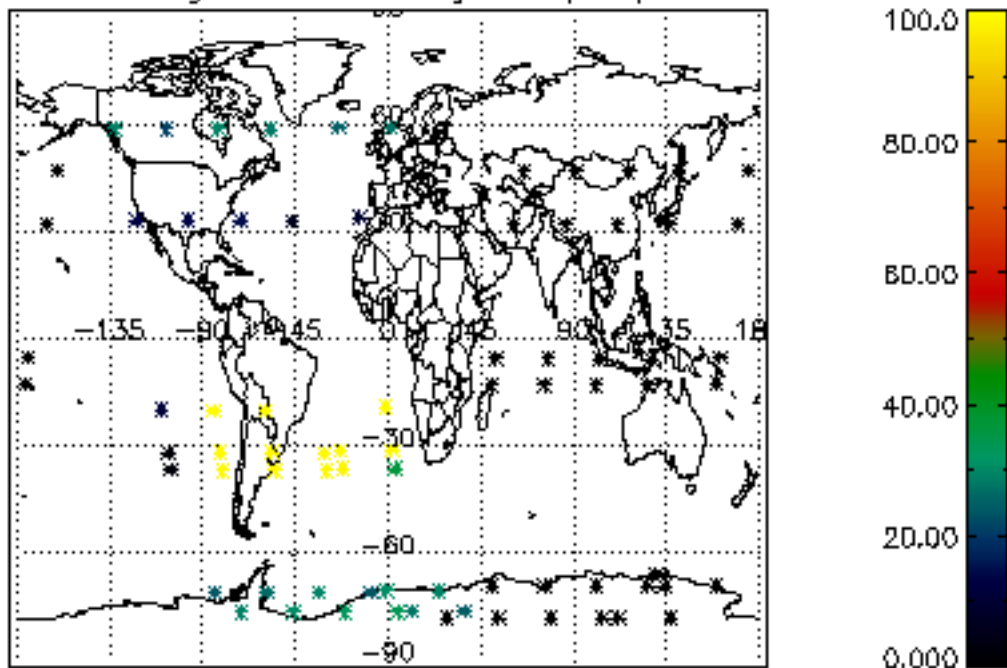
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	05-SEP-2009 00:03:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090831_103835_20090829_000000_20100101_000000	1	05-SEP-2009 00:03:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	05-SEP-2009 00:03:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-SEP-2009 00:03:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	05-SEP-2009 00:03:04
ECMWF_FILE	AUX_ECF_AXNECM20090904_064111_20090904_210000_20090905_090000	1	05-SEP-2009 00:03:04
ECMWF_FILE	AUX_ECF_AXNECM20090904_184112_20090905_030000_20090905_150000	27	05-SEP-2009 03:25:16
ECMWF_FILE	AUX_ECF_AXNECM20090905_064122_20090905_150000_20090906_030000	53	05-SEP-2009 20:58:32
ECMWF_FILE	AUX_ECF_AXNECM20090905_064122_20090905_210000_20090906_090000	62	05-SEP-2009 22:12:13
OPTIONAL_ECMWF_FILE	MISSING	1	05-SEP-2009 00:03:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090904_205028_000063762082_00157_39289_8694.N1	1	05-SEP-2009 00:03:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090904_224203_000057382082_00158_39290_8695.N1	6	05-SEP-2009 00:24:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090905_002300_000054192082_00159_39291_8696.N1	18	05-SEP-2009 02:04:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090905_031301_000057382082_00161_39293_8698.N1	27	05-SEP-2009 03:25:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090905_045358_000057382082_00162_39294_8699.N1	40	05-SEP-2009 05:05:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090905_205539_000038252082_00172_39304_8700.N1	53	05-SEP-2009 20:58:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090905_220443_000060572082_00172_39304_8701.N1	75	05-SEP-2009 23:52:50



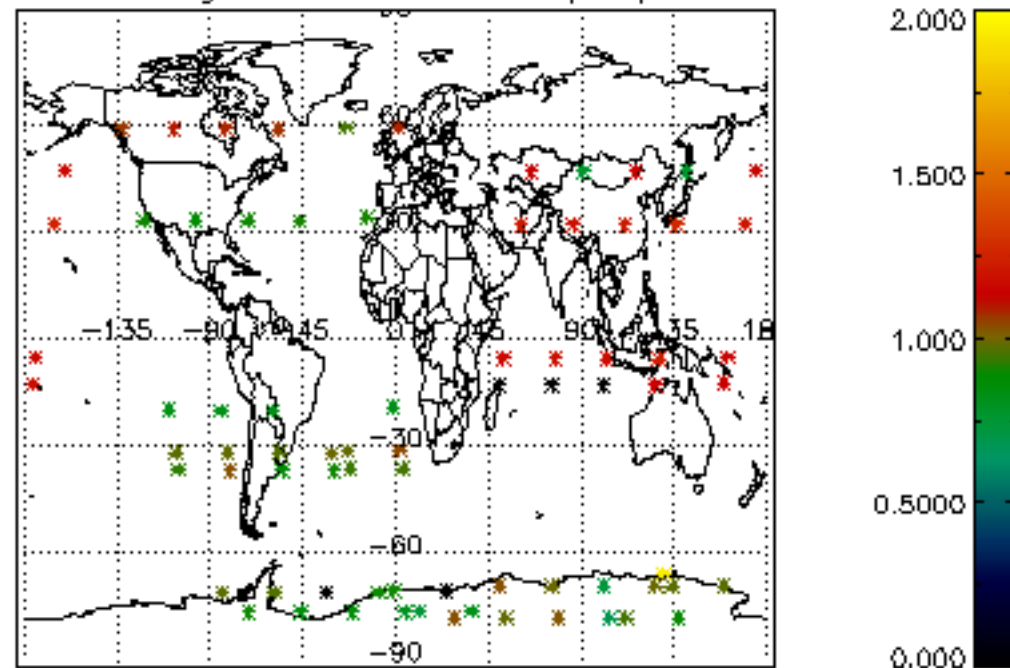




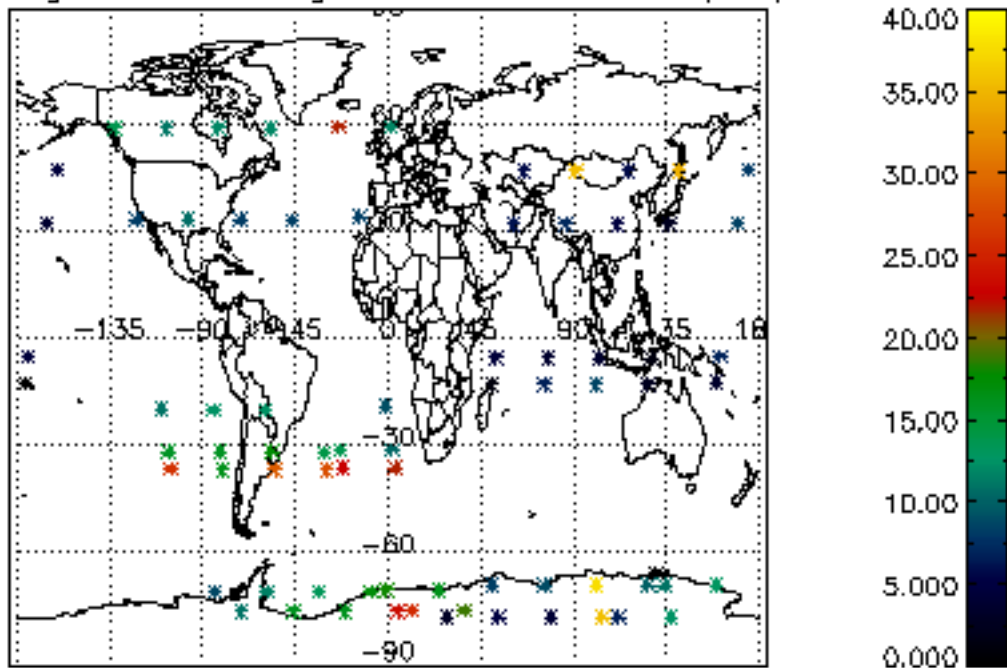
Percentage of cosmic ray hits per profile



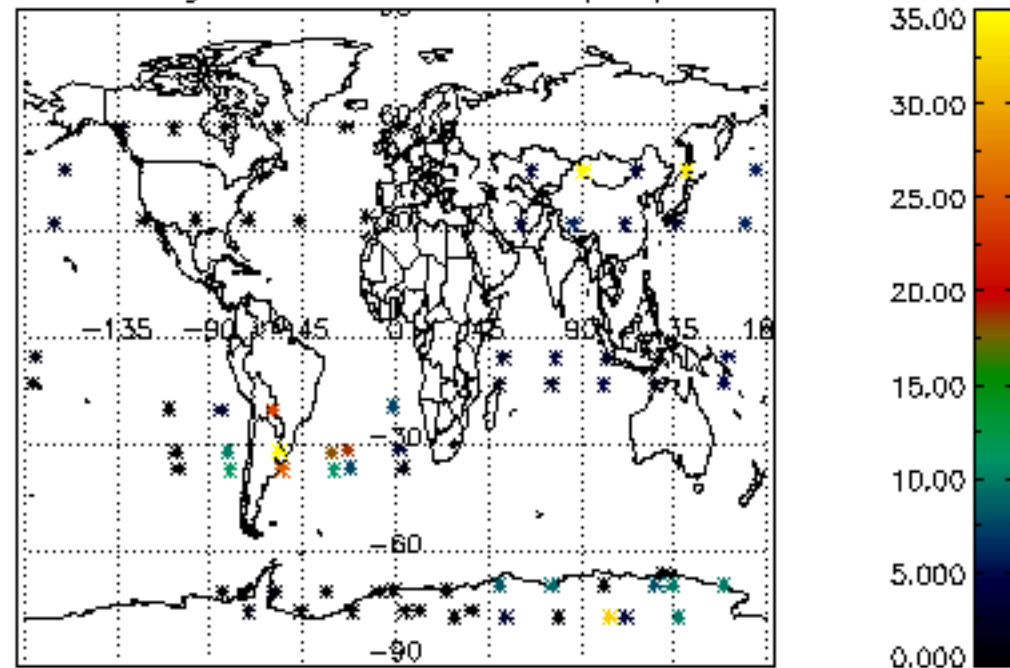
Percentage of datation errors per profile



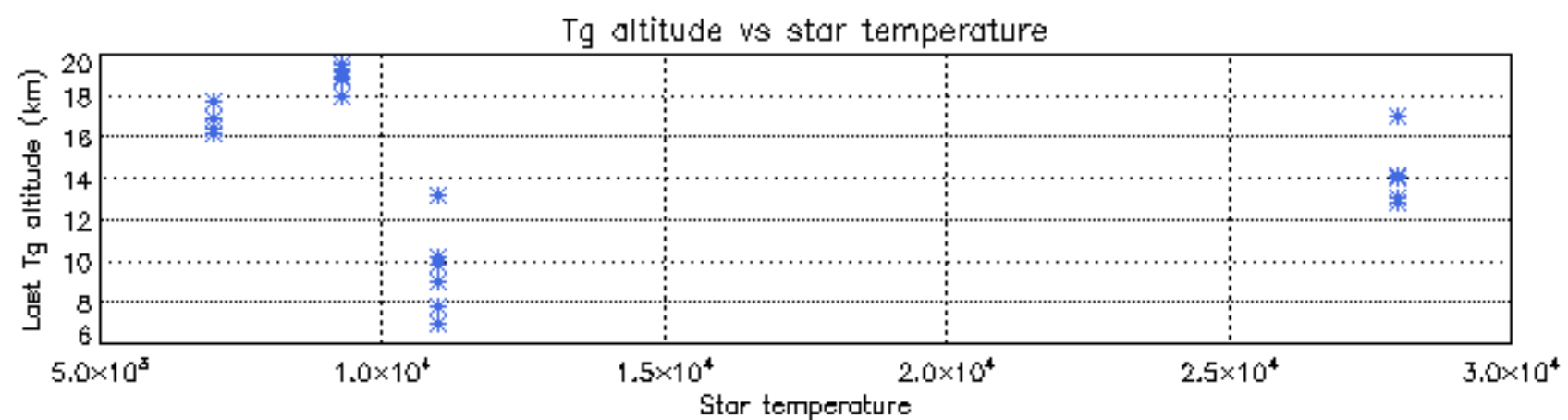
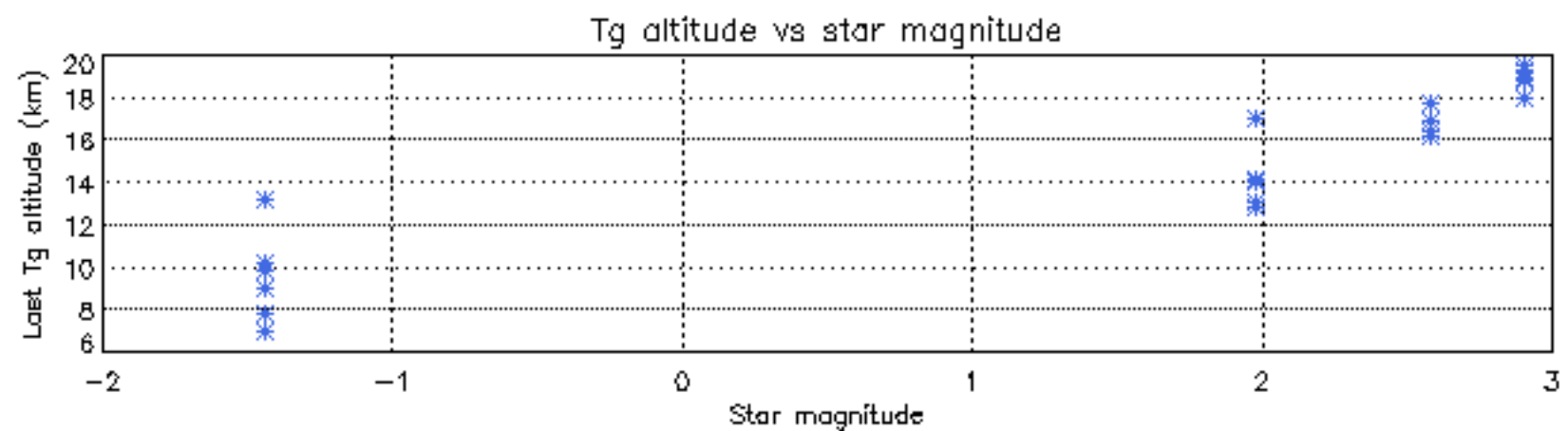
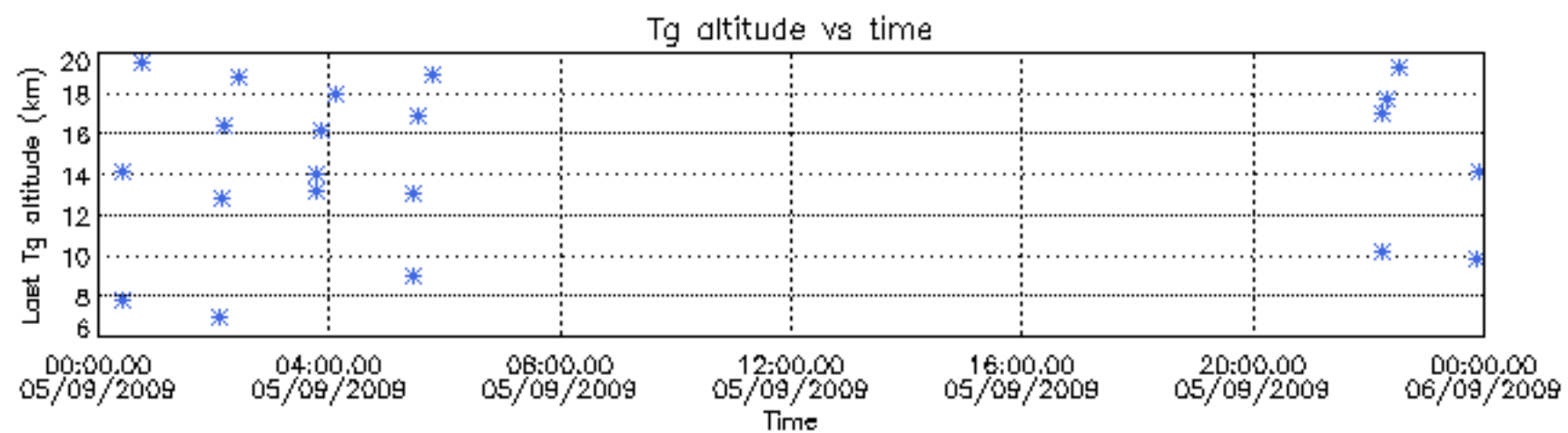
Percentage of star falling outside central band per profile



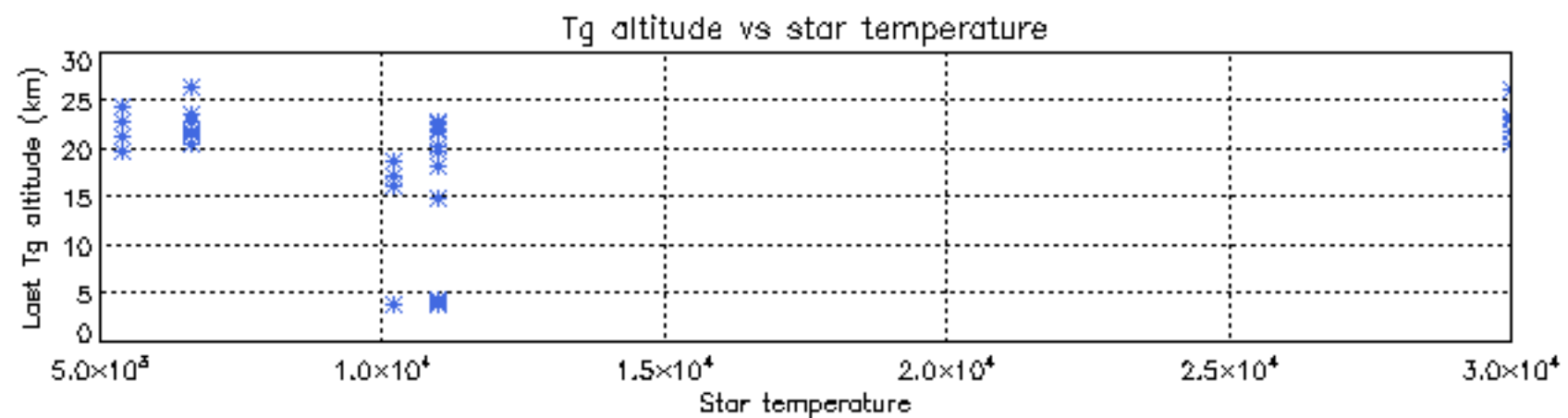
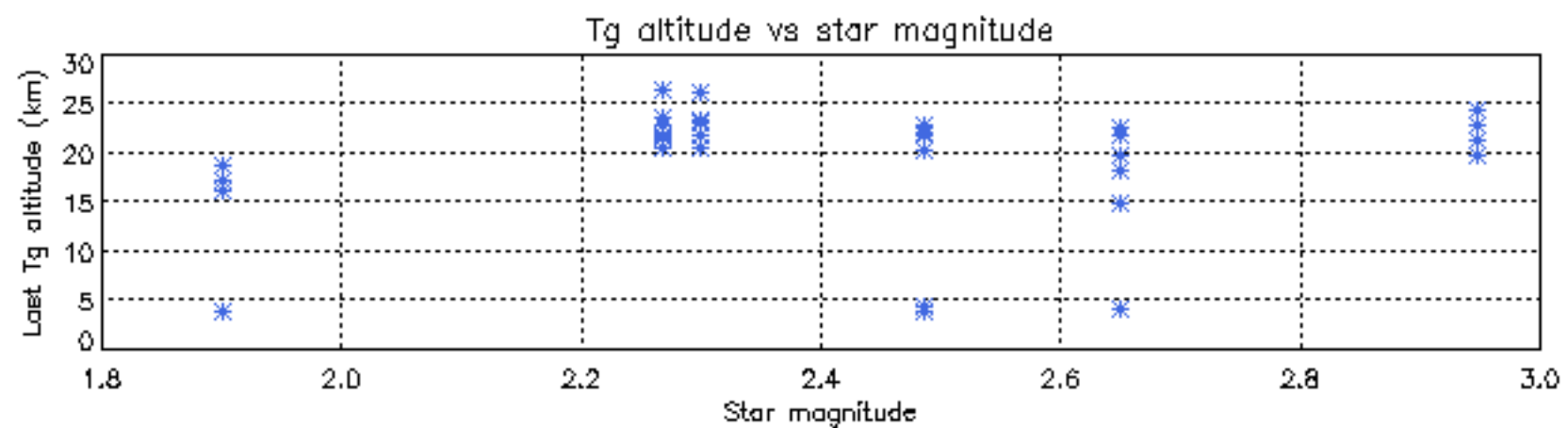
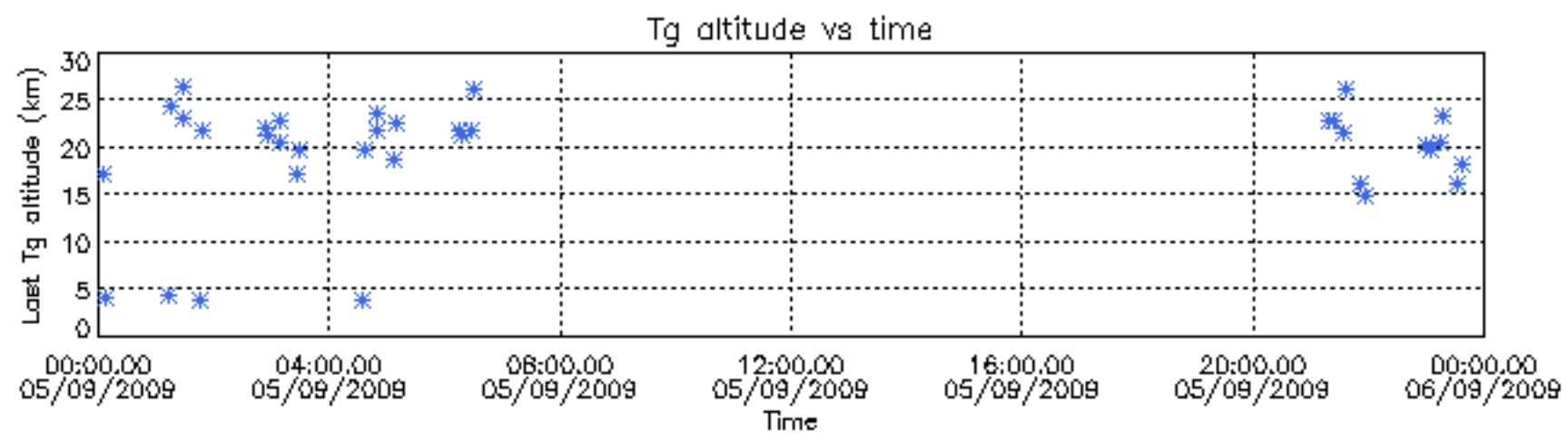
Percentage of saturation errors per profile

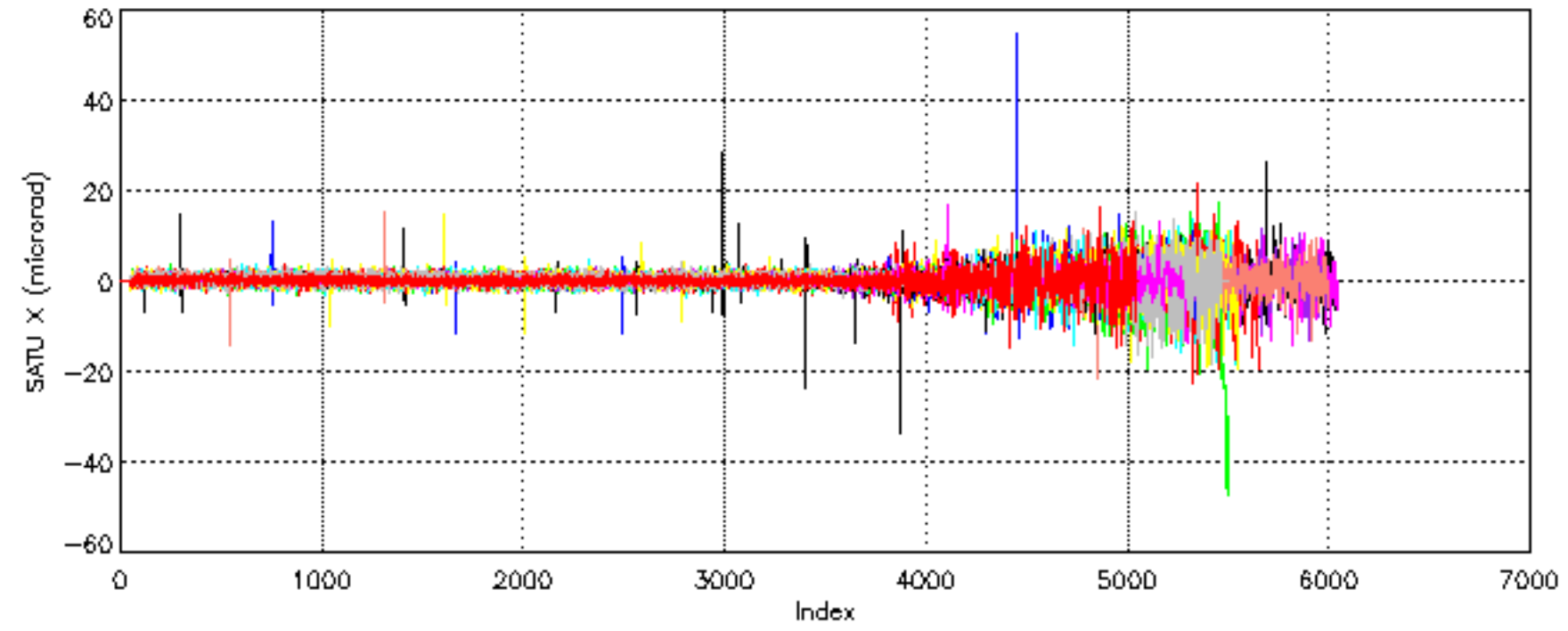


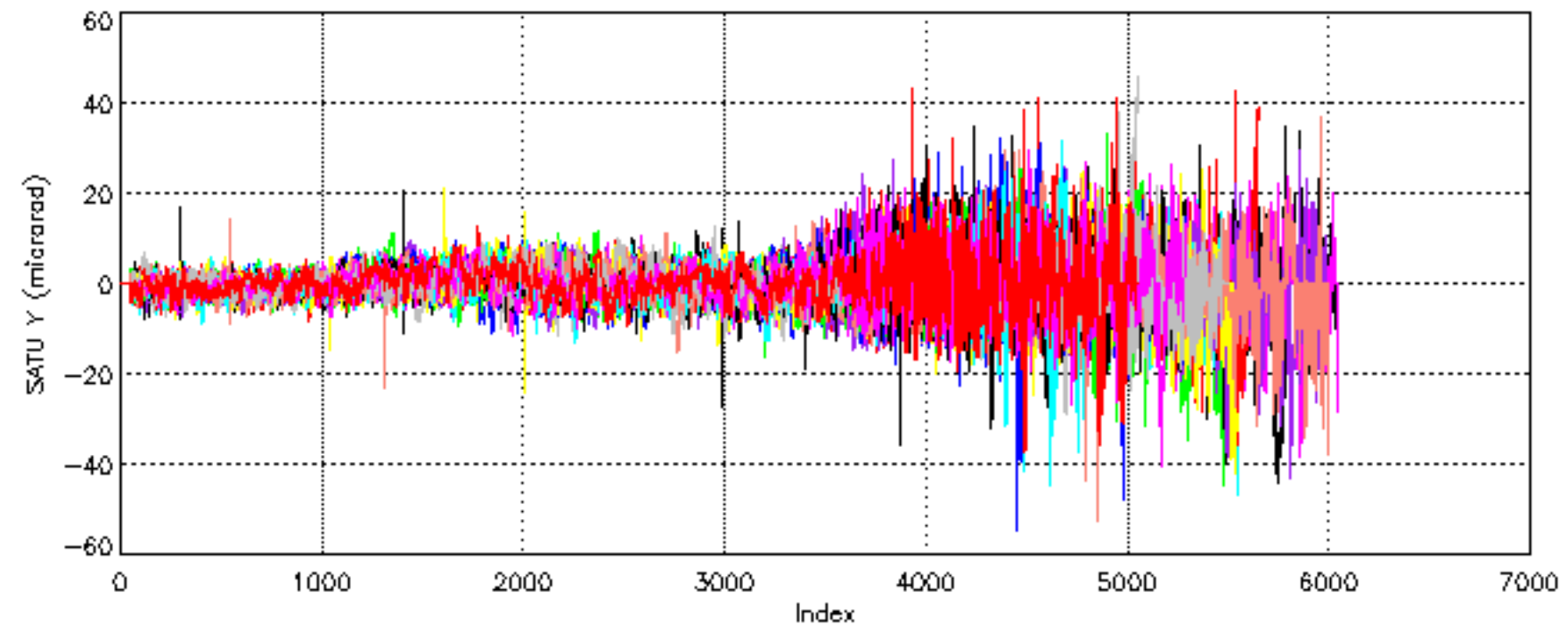
Tangent altitude at which the star is lost

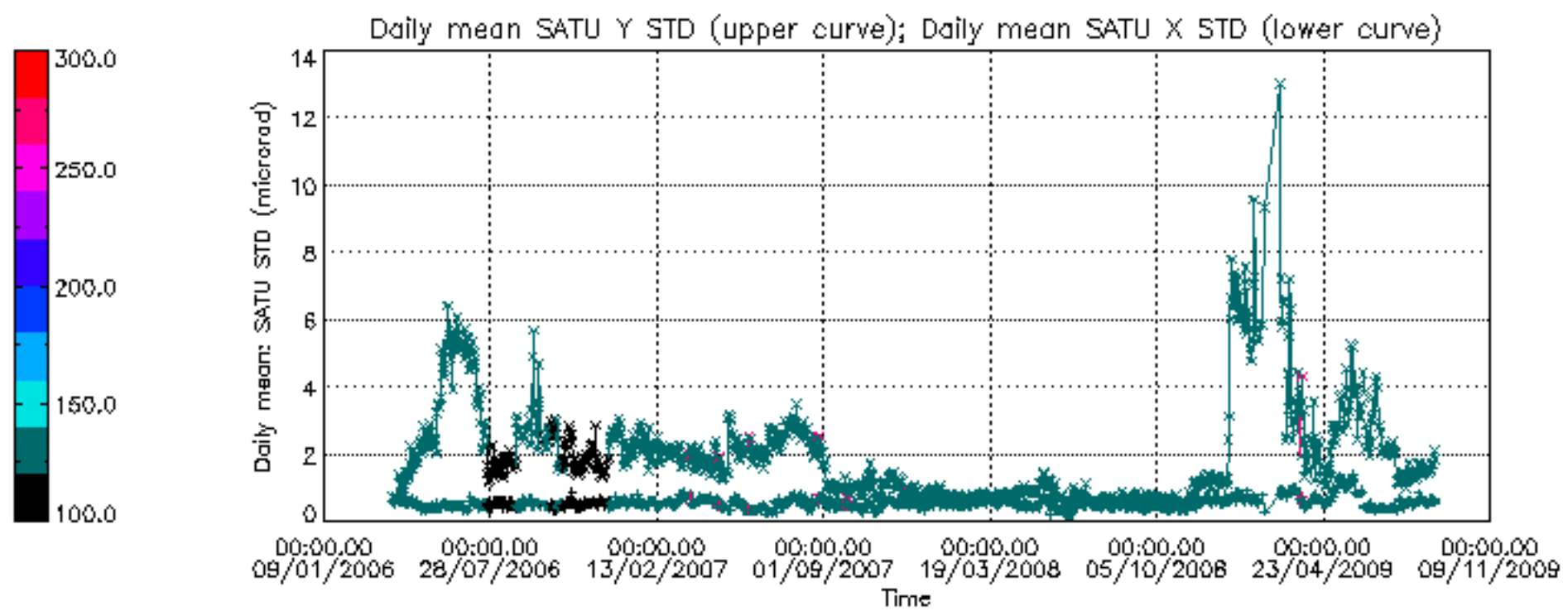


Tangent altitude at which the star is lost









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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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090901_022502_000042832082_00103_39235_8473.N1

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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090901_035024_000051962082_00104_39236_8474.N1

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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1; -1880.7; 01-SEP-2009 05:31:00; Bright; 57.0; 6; 13Alp Aur ; 0.08; 3400;occ; 114; 0;39237
 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
 8; -409.9; 01-SEP-2009 05:55:31; Dark ; 58.5; 101; 11Alp Lep ; 2.58; 7000;occ; 117; 0;39237
 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
 16; 3268.9; 01-SEP-2009 06:56:50; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 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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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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11; 6151.9; 21-SEP-2009 20:40:53; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;39532
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4; 119.7; 22-SEP-2009 01:42:44; Dark ; 54.0; 108; Alp Col ; 2.65; 15200;occ; 108; 0;39536
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6; 1539.9; 22-SEP-2009 02:06:24; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;39536
7; 2224.8; 22-SEP-2009 02:17:49; Bright; 44.5; 140; 88Gam Peg ; 2.83; 26000;occ; 89; 0;39536
8; 2484.5; 22-SEP-2009 02:22:09; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;39536
9; 2991.0; 22-SEP-2009 02:30:35; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39536
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7; 811.9; 22-SEP-2009 03:34:52; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;39537
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9; 2224.6; 22-SEP-2009 03:58:25; Bright; 43.5; 140; 88Gam Peg ; 2.83; 26000;occ; 87; 0;39537
10; 2484.1; 22-SEP-2009 04:02:44; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;39537
11; 2990.8; 22-SEP-2009 04:11:11; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39537
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7; 812.8; 22-SEP-2009 05:15:29; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;39538
8; 1540.4; 22-SEP-2009 05:27:37; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;39538
9; 2223.9; 22-SEP-2009 05:39:00; Bright; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;39538
10; 2483.7; 22-SEP-2009 05:43:20; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;39538
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3; 2480.0; 22-SEP-2009 20:48:40; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;39547
4; 2987.5; 22-SEP-2009 20:57:07; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39547
5; 3083.4; 22-SEP-2009 20:58:43; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;39547
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7; 5669.0; 22-SEP-2009 20:01:13; Dark ; 27.0; 1; 9Alp CMA ; -1.44; 11000;occ; 54; 0;39546
8; 5816.4; 22-SEP-2009 20:03:40; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;39546
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4; 4503.1; 26-SEP-2009 00:49:19; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;39592
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