

GOMOS Daily Report 04-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	07SEP2009 04:44:48
Data source version	GOMOS/5.00
Start time of products	04SEP2009 00:02:51
Stop time of products	04SEP2009 23:47:57
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)

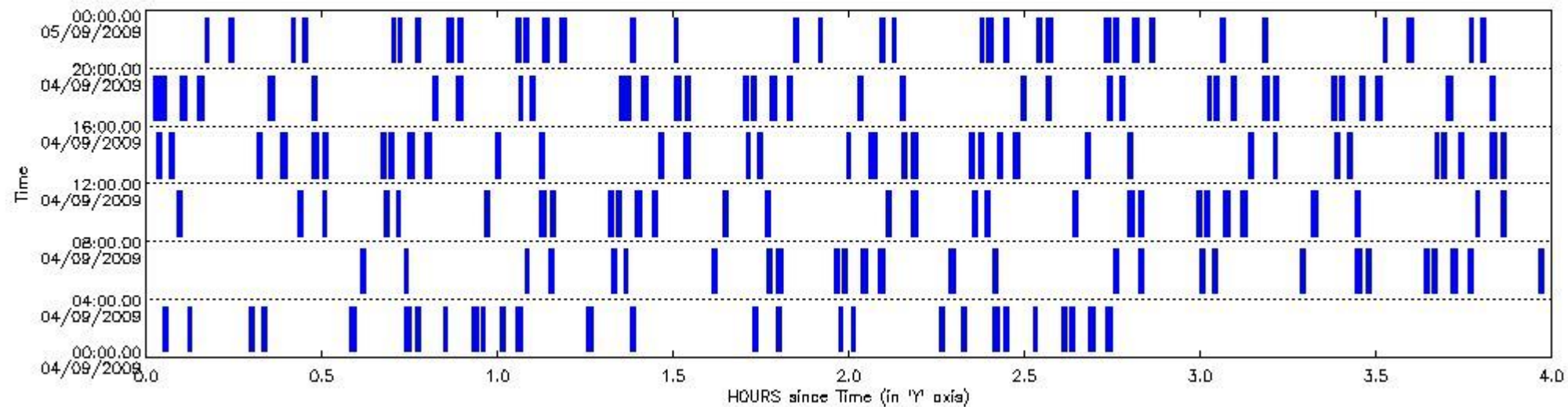
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

No missing products.

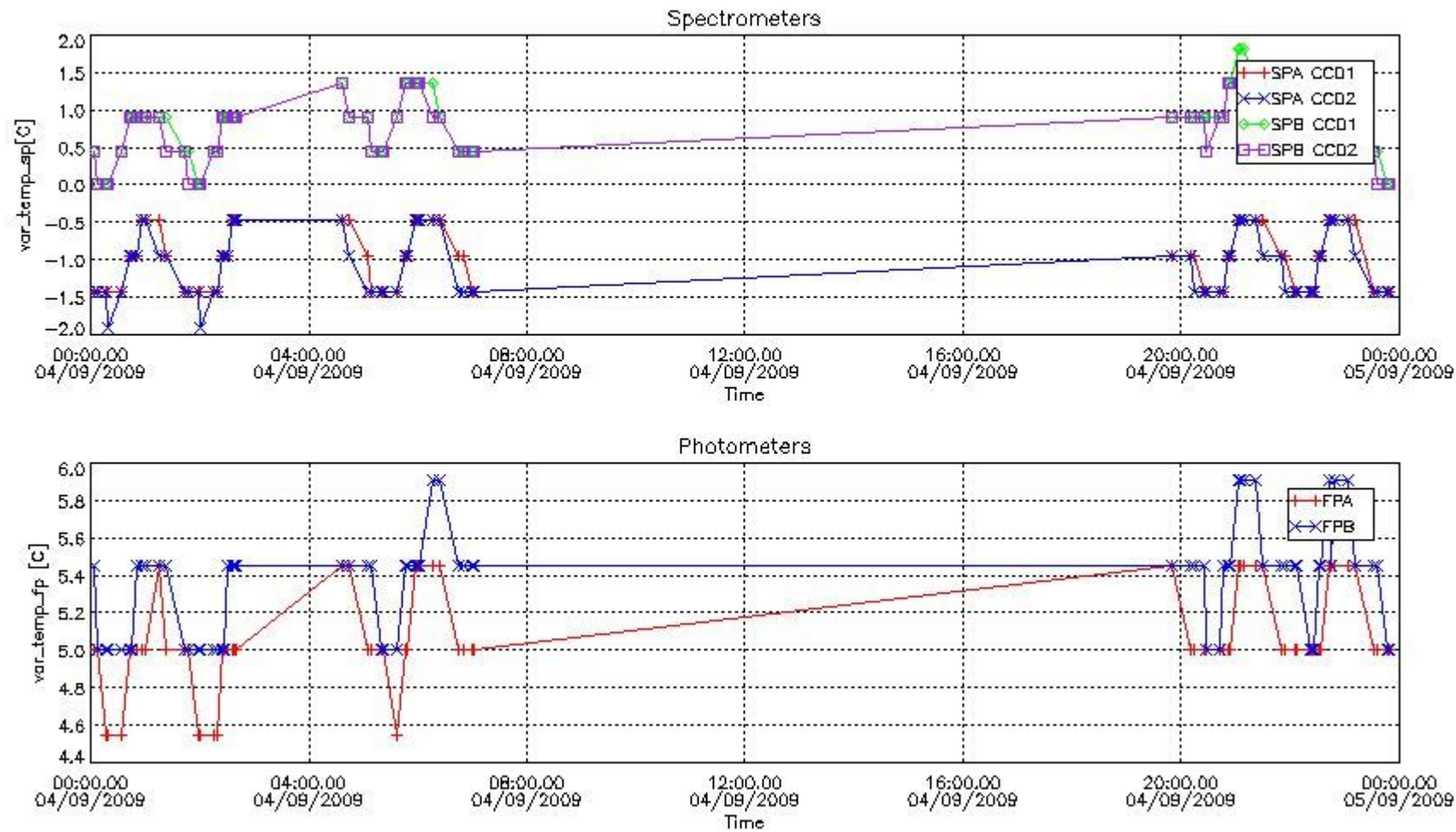
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090904_000251_000000452082_00145_39277_9681.N1	04-SEP-2009 00:02:51	Bright	45.000	90	54Alp Peg	2.4870	11000.	90	39277	No
2	GOM_TRA_1PNPDE20090904_000704_000000432082_00145_39277_9682.N1	04-SEP-2009 00:07:04	Bright	43.000	164	44Eta Peg	2.9480	5400.0	86	39277	No
3	GOM_TRA_1PNPDE20090904_001739_000000432082_00145_39277_9683.N1	04-SEP-2009 00:17:39	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39277	No
4	GOM_TRA_1PNPDE20090904_001944_000000442082_00145_39277_9684.N1	04-SEP-2009 00:19:44	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39277	No
5	GOM_TRA_1PNPDE20090904_003446_000000612082_00145_39277_9685.N1	04-SEP-2009 00:34:46	Bright	61.000	6	13Alp Aur	0.080000	3400.0	122	39277	No
6	GOM_TRA_1PNPDE20090904_004403_000000602082_00145_39277_9686.N1	04-SEP-2009 00:44:03	Twilight	60.000	151	13Mu Gem	2.8900	3000.0	120	39277	No
7	GOM_TRA_1PNPDE20090904_004552_000000542082_00145_39277_9687.N1	04-SEP-2009 00:45:52	Twilight	54.000	44	24Gam Gem	1.9280	11000.	108	39277	No
8	GOM_TRA_1PNPDE20090904_005049_000000392082_00145_39277_9688.N1	04-SEP-2009 00:50:49	Dark	38.500	14	58Alp Ori	0.87000	3000.0	77	39277	No
9	GOM_TRA_1PNPDE20090904_005544_000000552082_00145_39277_9825.N1	04-SEP-2009 00:55:44	Dark	54.500	1	9Alp CMa	-1.4400	11000.	109	39277	No
10	GOM_TRA_1PNPDE20090904_005706_000000472082_00145_39277_9826.N1	04-SEP-2009 00:57:06	Dark	46.500	47	2Bet CMa	1.9760	28000.	93	39277	No
11	GOM_TRA_1PNPDE20090904_010018_000000562082_00145_39277_9827.N1	04-SEP-2009 01:00:18	Dark	55.500	101	11Alp Lep	2.5820	7000.0	111	39277	No
12	GOM_TRA_1PNPDE20090904_011517_000000552082_00146_39278_9828.N1	04-SEP-2009 01:15:17	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39278	No

13	GOM_TRA_1PNPDE20090904_012244_000000472082_00146_39278_9829.N1	04-SEP-2009 01:22:44	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	39278	No
14	GOM_TRA_1PNPDE20090904_014327_000000512082_00146_39278_9830.N1	04-SEP-2009 01:43:27	Bright	51.000	90	54Alp Peg	2.4870	11000.	102	39278	No
15	GOM_TRA_1PNPDE20090904_014739_000000412082_00146_39278_9831.N1	04-SEP-2009 01:47:39	Bright	40.500	164	44Eta Peg	2.9480	5400.0	81	39278	No
16	GOM_TRA_1PNPDE20090904_015814_000000402082_00146_39278_9832.N1	04-SEP-2009 01:58:14	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	39278	No
17	GOM_TRA_1PNPDE20090904_020019_000000452082_00146_39278_9833.N1	04-SEP-2009 02:00:19	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	39278	No
18	GOM_TRA_1PNPDE20090904_021521_000000592082_00146_39278_9967.N1	04-SEP-2009 02:15:21	Bright	59.000	6	13Alp Aur	0.080000	3400.0	118	39278	No
19	GOM_TRA_1PNPDE20090904_021916_000000502082_00146_39278_9968.N1	04-SEP-2009 02:19:16	Bright	49.500	107	37The Aur	2.6490	11000.	99	39278	No
20	GOM_TRA_1PNPDE20090904_022439_000000622082_00146_39278_9969.N1	04-SEP-2009 02:24:39	Twi_and_stray	62.000	151	13Mu Gem	2.8900	3000.0	124	39278	No
21	GOM_TRA_1PNPDE20090904_022628_000000532082_00146_39278_9970.N1	04-SEP-2009 02:26:28	Twi_and_stray	53.000	44	24Gam Gem	1.9280	11000.	106	39278	No
22	GOM_TRA_1PNPDE20090904_023125_000000352082_00146_39278_9971.N1	04-SEP-2009 02:31:25	Dark	35.000	14	58Alp Ori	0.87000	3000.0	70	39278	No
23	GOM_TRA_1PNPDE20090904_023621_000000512082_00146_39278_9972.N1	04-SEP-2009 02:36:21	Dark	51.000	1	9Alp CMa	-1.4400	11000.	102	39278	No
24	GOM_TRA_1PNPDE20090904_023743_000000502082_00146_39278_9973.N1	04-SEP-2009 02:37:43	Dark	49.500	47	2Bet CMa	1.9760	28000.	99	39278	No
25	GOM_TRA_1PNPDE20090904_024055_000000572082_00146_39278_9974.N1	04-SEP-2009 02:40:55	Dark	56.500	101	11Alp Lep	2.5820	7000.0	113	39278	No
26	GOM_TRA_1PNPDE20090904_043631_000000562082_00148_39280_0131.N1	04-SEP-2009 04:36:31	Dark	56.000	157	The1Eri	2.9060	9300.0	112	39280	No
27	GOM_TRA_1PNPDE20090904_044357_000000472082_00148_39280_0132.N1	04-SEP-2009 04:43:57	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	39280	No
28	GOM_TRA_1PNPDE20090904_050438_000000452082_00148_39280_0133.N1	04-SEP-2009 05:04:38	Bright	44.500	90	54Alp Peg	2.4870	11000.	89	39280	No
29	GOM_TRA_1PNPDE20090904_050850_000000422082_00148_39280_0134.N1	04-SEP-2009 05:08:50	Bright	42.000	164	44Eta Peg	2.9480	5400.0	84	39280	No
30	GOM_TRA_1PNPDE20090904_051925_000000442082_00148_39280_0135.N1	04-SEP-2009 05:19:25	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	39280	No
31	GOM_TRA_1PNPDE20090904_052129_000000452082_00148_39280_0136.N1	04-SEP-2009 05:21:29	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	39280	No
32	GOM_TRA_1PNPDE20090904_053632_000000512082_00148_39280_0292.N1	04-SEP-2009 05:36:32	Bright	51.000	6	13Alp Aur	0.080000	3400.0	102	39280	No
33	GOM_TRA_1PNPDE20090904_054552_000000552082_00148_39280_0293.N1	04-SEP-2009 05:45:52	Twi_and_stray	54.500	151	13Mu Gem	2.8900	3000.0	109	39280	No
34	GOM_TRA_1PNPDE20090904_054741_000000512082_00148_39280_0294.N1	04-SEP-2009 05:47:41	Twi_and_stray	50.500	44	24Gam Gem	1.9280	11000.	101	39280	No
35	GOM_TRA_1PNPDE20090904_055734_000000502082_00148_39280_0295.N1	04-SEP-2009 05:57:34	Dark	50.000	1	9Alp CMa	-1.4400	11000.	100	39280	No
36	GOM_TRA_1PNPDE20090904_055857_000000482082_00148_39280_0296.N1	04-SEP-2009 05:58:57	Dark	48.000	47	2Bet CMa	1.9760	28000.	96	39280	No
37	GOM_TRA_1PNPDE20090904_060210_000000572082_00148_39280_0297.N1	04-SEP-2009 06:02:10	Dark	57.000	101	11Alp Lep	2.5820	7000.0	114	39280	No
38	GOM_TRA_1PNPDE20090904_061708_000000562082_00149_39281_0298.N1	04-SEP-2009 06:17:08	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39281	No
39	GOM_TRA_1PNPDE20090904_062434_000000492082_00149_39281_0299.N1	04-SEP-2009 06:24:34	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	39281	No
40	GOM_TRA_1PNPDE20090904_064513_000000442082_00149_39281_0300.N1	04-SEP-2009 06:45:13	Bright	44.000	90	54Alp Peg	2.4870	11000.	88	39281	No
41	GOM_TRA_1PNPDE20090904_064926_000000422082_00149_39281_0301.N1	04-SEP-2009 06:49:26	Bright	42.000	164	44Eta Peg	2.9480	5400.0	84	39281	No
42	GOM_TRA_1PNPDE20090904_070000_000000432082_00149_39281_0302.N1	04-SEP-2009 07:00:00	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39281	No
43	GOM_TRA_1PNPDE20090904_070205_000000462082_00149_39281_0303.N1	04-SEP-2009 07:02:05	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	39281	No
44	GOM_TRA_1PNPDE20090904_194926_000000522082_00157_39289_0677.N1	04-SEP-2009 19:49:26	Straylight	52.000	84	Alp Phe	2.3970	4500.0	104	39289	No
45	GOM_TRA_1PNPDE20090904_200957_000000452082_00157_39289_0678.N1	04-SEP-2009 20:09:57	Bright	45.000	90	54Alp Peg	2.4870	11000.	90	39289	No
46	GOM_TRA_1PNPDE20090904_201410_000000402082_00157_39289_0679.N1	04-SEP-2009 20:14:10	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39289	No
47	GOM_TRA_1PNPDE20090904_202443_000000402082_00157_39289_0680.N1	04-SEP-2009 20:24:43	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39289	No
48	GOM_TRA_1PNPDE20090904_202647_000000422082_00157_39289_0681.N1	04-SEP-2009 20:26:47	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	39289	No
49	GOM_TRA_1PNPDE20090904_204153_000000312082_00157_39289_0682.N1	04-SEP-2009 20:41:53	Twi_and_stray	31.000	6	13Alp Aur	0.080000	3400.0	62	39289	No
50	GOM_TRA_1PNPDE20090904_204253_000000442082_00157_39289_0683.N1	04-SEP-2009 20:42:53	Bright	43.500	42	34Bet Aur	1.9000	10200.	87	39289	No
51	GOM_TRA_1PNPDE20090904_204552_000000472082_00157_39289_0684.N1	04-SEP-2009 20:45:52	Bright	47.000	107	37The Aur	2.6490	11000.	94	39289	No
52	GOM_TRA_1PNPDE20090904_205119_000000582082_00157_39289_0685.N1	04-SEP-2009 20:51:19	Twi_and_stray	57.500	151	13Mu Gem	2.8900	3000.0	115	39289	No
53	GOM_TRA_1PNPDE20090904_205308_000000532082_00157_39289_0686.N1	04-SEP-2009 20:53:08	Twi_and_stray	53.000	44	24Gam Gem	1.9280	11000.	106	39289	No
54	GOM_TRA_1PNPDE20090904_210304_000000512082_00157_39289_0820.N1	04-SEP-2009 21:03:04	Dark	51.000	1	9Alp CMa	-1.4400	11000.	102	39289	No
55	GOM_TRA_1PNPDE20090904_210428_000000482082_00157_39289_0821.N1	04-SEP-2009 21:04:28	Dark	48.000	47	2Bet CMa	1.9760	28000.	96	39289	No
56	GOM_TRA_1PNPDE20090904_210746_000000612082_00157_39289_0822.N1	04-SEP-2009 21:07:46	Dark	61.000	101	11Alp Lep	2.5820	7000.0	122	39289	No
57	GOM_TRA_1PNPDE20090904_212242_000000542082_00158_39290_0823.N1	04-SEP-2009 21:22:42	Dark	54.000	157	The1Eri	2.9060	9300.0	108	39290	No
58	GOM_TRA_1PNPDE20090904_213002_000000452082_00158_39290_0824.N1	04-SEP-2009 21:30:02	Straylight	44.500	84	Alp Phe	2.3970	4500.0	89	39290	No
59	GOM_TRA_1PNPDE20090904_215033_000000452082_00158_39290_0825.N1	04-SEP-2009 21:50:33	Bright	45.000	90	54Alp Peg	2.4870	11000.	90	39290	No
60	GOM_TRA_1PNPDE20090904_215446_000000402082_00158_39290_0826.N1	04-SEP-2009 21:54:46	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39290	No
61	GOM_TRA_1PNPDE20090904_220518_000000452082_00158_39290_0827.N1	04-SEP-2009 22:05:18	Bright	44.500	74	11Bet Cas	2.2680	6600.0	89	39290	No
62	GOM_TRA_1PNPDE20090904_220722_000000412082_00158_39290_0828.N1	04-SEP-2009 22:07:22	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	39290	No
63	GOM_TRA_1PNPDE20090904_222228_000000262082_00158_39290_0829.N1	04-SEP-2009 22:22:28	Twi_and_stray	26.000	6	13Alp Aur	0.080000	3400.0	52	39290	No
64	GOM_TRA_1PNPDE20090904_222329_000000622082_00158_39290_0830.N1	04-SEP-2009 22:23:29	Bright	62.000	42	34Bet Aur	1.9000	10200.	124	39290	No
65	GOM_TRA_1PNPDE20090904_222627_000000522082_00158_39290_0831.N1	04-SEP-2009 22:26:27	Bright	52.000	107	37The Aur	2.6490	11000.	104	39290	No
66	GOM_TRA_1PNPDE20090904_223155_000000612082_00158_39290_0832.N1	04-SEP-2009 22:31:55	Twi_and_stray	61.000	151	13Mu Gem	2.8900	3000.0	122	39290	No
67	GOM_TRA_1PNPDE20090904_223345_000000522082_00158_39290_0833.N1	04-SEP-2009 22:33:45	Twi_and_stray	51.500	44	24Gam Gem	1.9280	11000.	103	39290	No
68	GOM_TRA_1PNPDE20090904_224340_000000512082_00158_39290_0966.N1	04-SEP-2009 22:43:40	Dark	51.000	1	9Alp CMa	-1.4400	11000.	102	39290	No
69	GOM_TRA_1PNPDE20090904_224504_000000472082_00158_39290_0967.N1	04-SEP-2009 22:45:04	Dark	47.000	47	2Bet CMa	1.9760	28000.	94	39290	No
70	GOM_TRA_1PNPDE20090904_224823_000000632082_00158_39290_0968.N1	04-SEP-2009 22:48:23	Dark	62.500	101	11Alp Lep	2.5820	7000.0	125	39290	No
71	GOM_TRA_1PNPDE20090904_230319_000000562082_00159_39291_0969.N1	04-SEP-2009 23:03:19	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39291	No

72	GOM_TRA_1PNPDE20090904_231038_000000472082_00159_39291_0970.N1	04-SEP-2009 23:10:38	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	39291	No
73	GOM_TRA_1PNPDE20090904_233109_000000442082_00159_39291_0971.N1	04-SEP-2009 23:31:09	Bright	44.000	90	54Alp Peg	2.4870	11000.	88	39291	No
74	GOM_TRA_1PNPDE20090904_233521_000000612082_00159_39291_0972.N1	04-SEP-2009 23:35:21	Bright	61.000	164	44Eta Peg	2.9480	5400.0	122	39291	No
75	GOM_TRA_1PNPDE20090904_234553_000000442082_00159_39291_0973.N1	04-SEP-2009 23:45:53	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	39291	No
76	GOM_TRA_1PNPDE20090904_234757_000000452082_00159_39291_0974.N1	04-SEP-2009 23:47:57	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	39291	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).

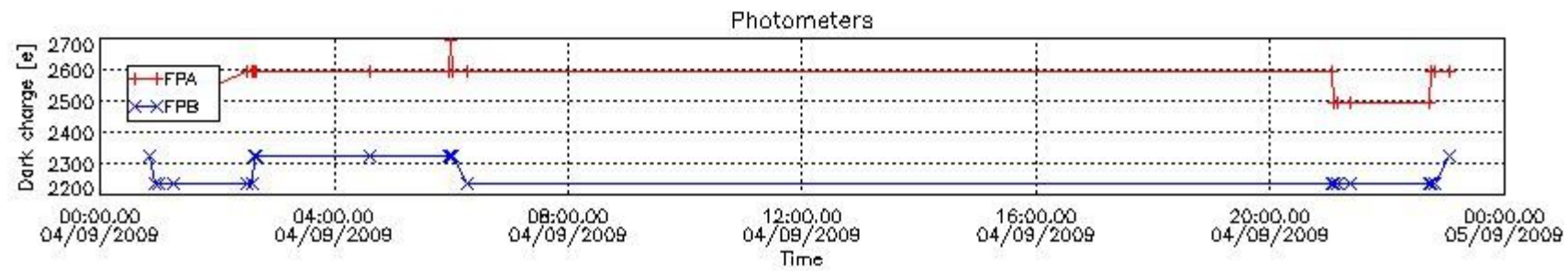
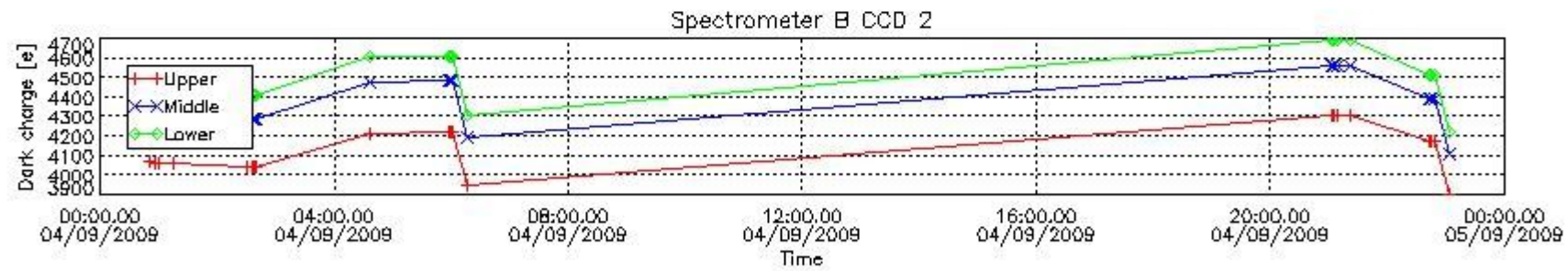
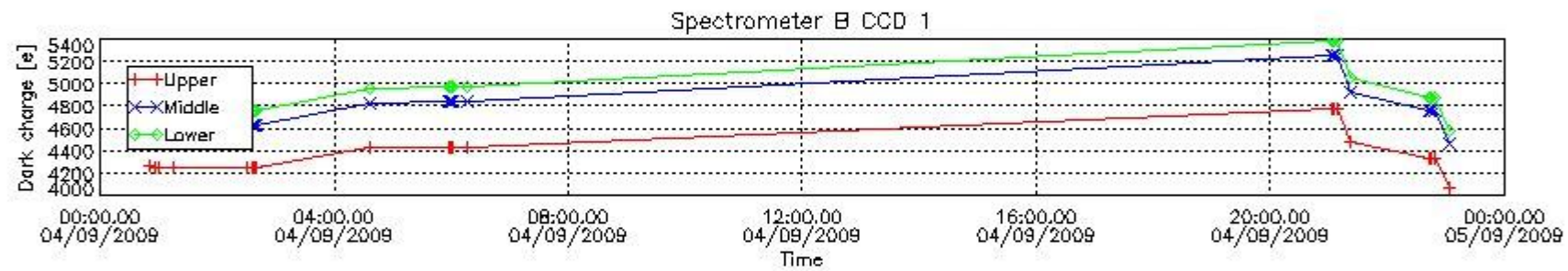
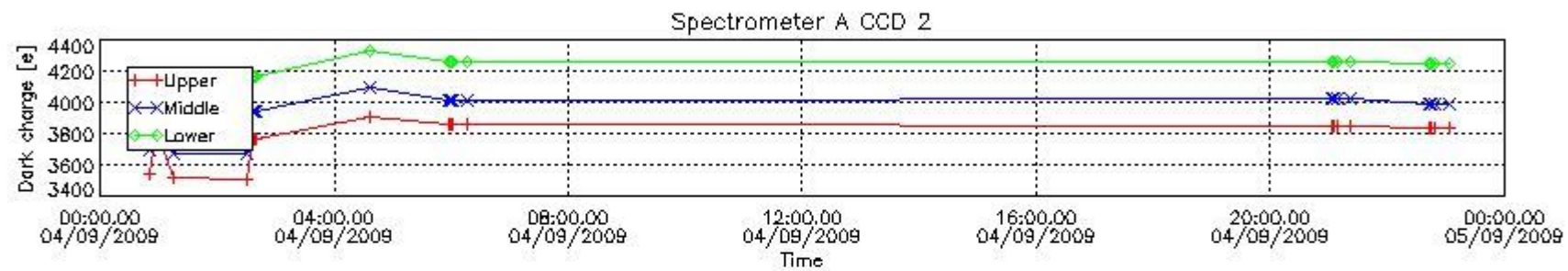
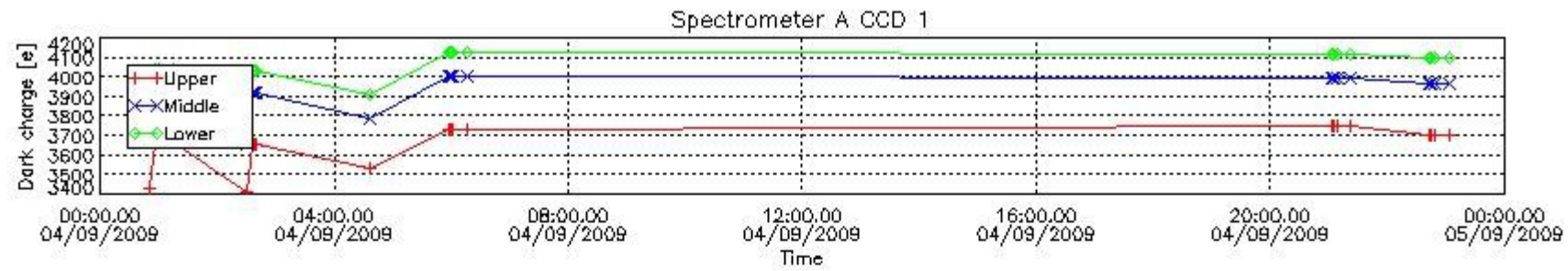
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090904_043631_000000562082_00148_39280_0131.N1	DC map used
GOM_TRA_1PNPDE20090904_044357_000000472082_00148_39280_0132.N1	DC map used
GOM_TRA_1PNPDE20090904_050438_000000452082_00148_39280_0133.N1	DC map used
GOM_TRA_1PNPDE20090904_050850_000000422082_00148_39280_0134.N1	DC map used
GOM_TRA_1PNPDE20090904_051925_000000442082_00148_39280_0135.N1	DC map used

GOM_TRA_1PNPDE20090904_052129_000000452082_00148_39280_0136.N1	DC map used
GOM_TRA_1PNPDE20090904_194926_000000522082_00157_39289_0677.N1	DC map used
GOM_TRA_1PNPDE20090904_200957_000000452082_00157_39289_0678.N1	DC map used
GOM_TRA_1PNPDE20090904_201410_000000402082_00157_39289_0679.N1	DC map used
GOM_TRA_1PNPDE20090904_202443_000000402082_00157_39289_0680.N1	DC map used
GOM_TRA_1PNPDE20090904_202647_000000422082_00157_39289_0681.N1	DC map used
GOM_TRA_1PNPDE20090904_204153_000000312082_00157_39289_0682.N1	DC map used
GOM_TRA_1PNPDE20090904_204253_000000442082_00157_39289_0683.N1	DC map used
GOM_TRA_1PNPDE20090904_204552_000000472082_00157_39289_0684.N1	DC map used
GOM_TRA_1PNPDE20090904_205119_000000582082_00157_39289_0685.N1	DC map used
GOM_TRA_1PNPDE20090904_205308_000000532082_00157_39289_0686.N1	DC map used

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



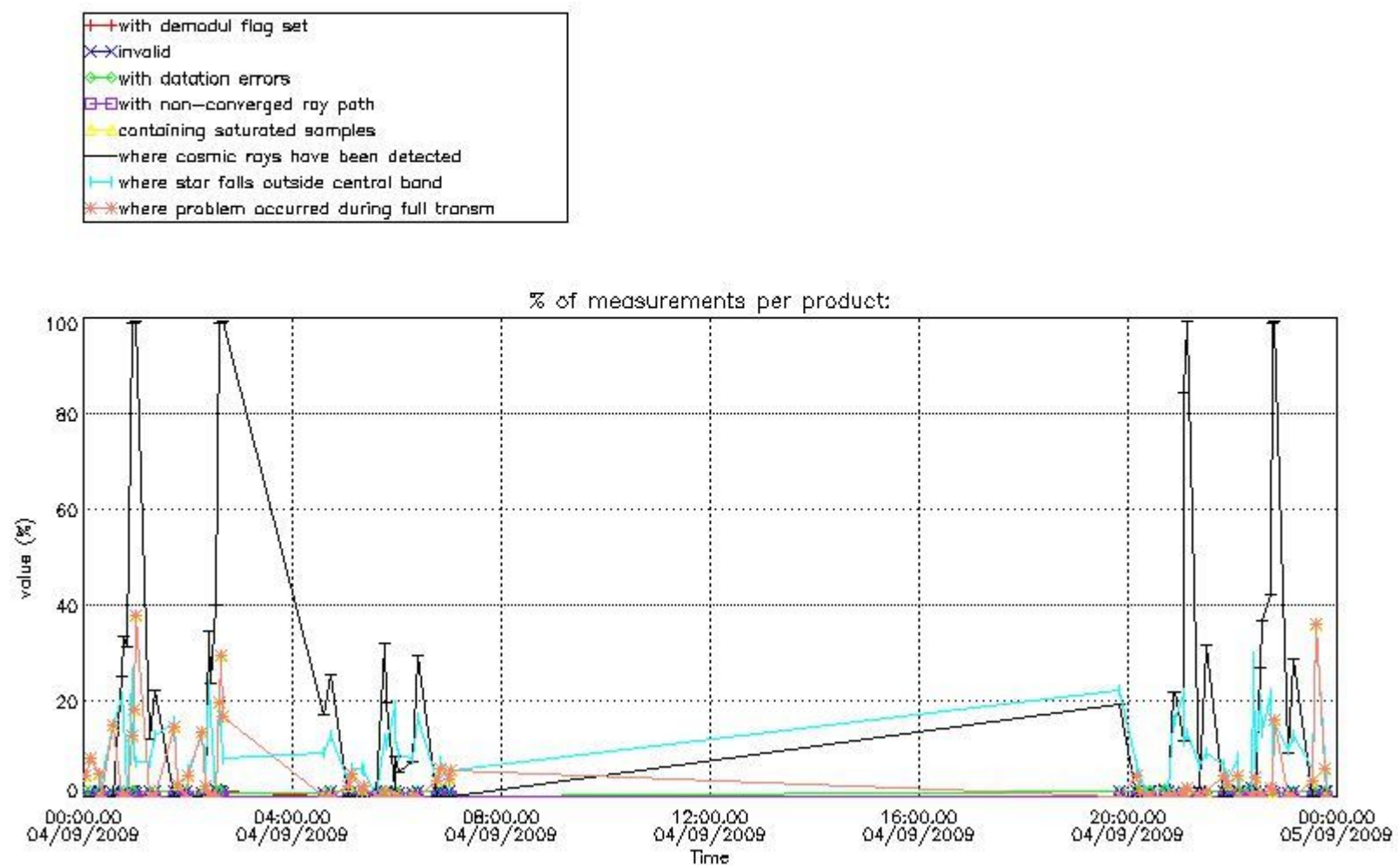
5. Demodulation flag and quality information monitoring

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.

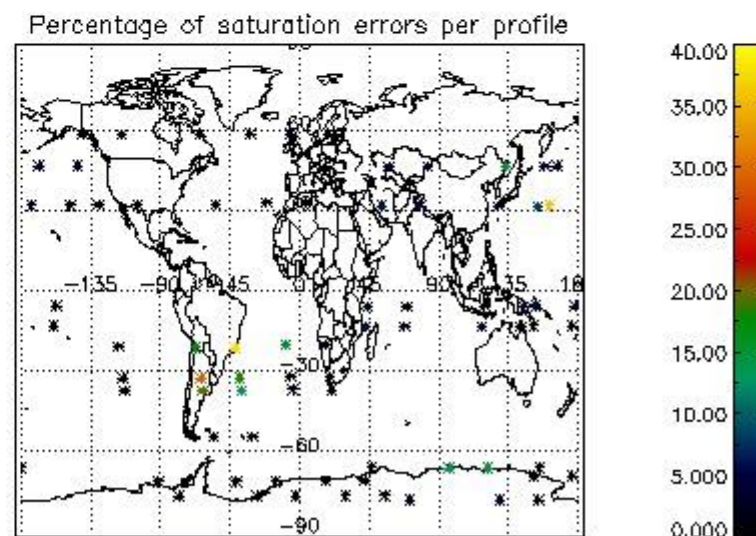
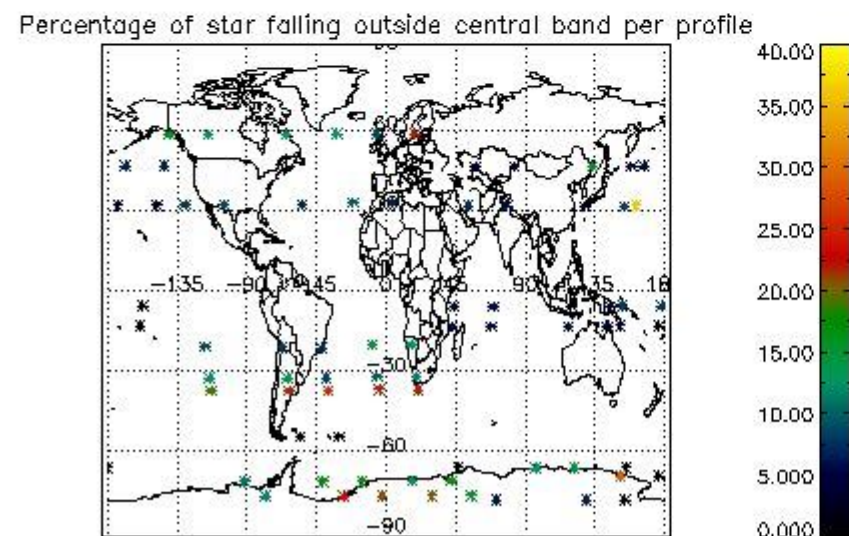
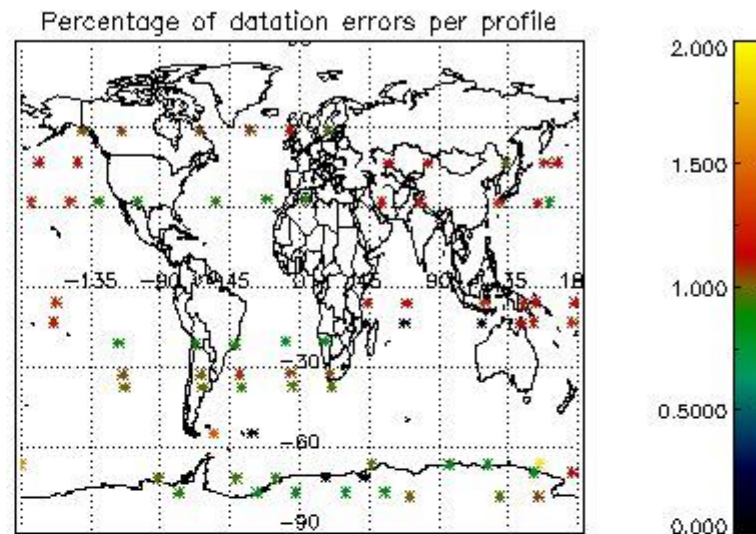
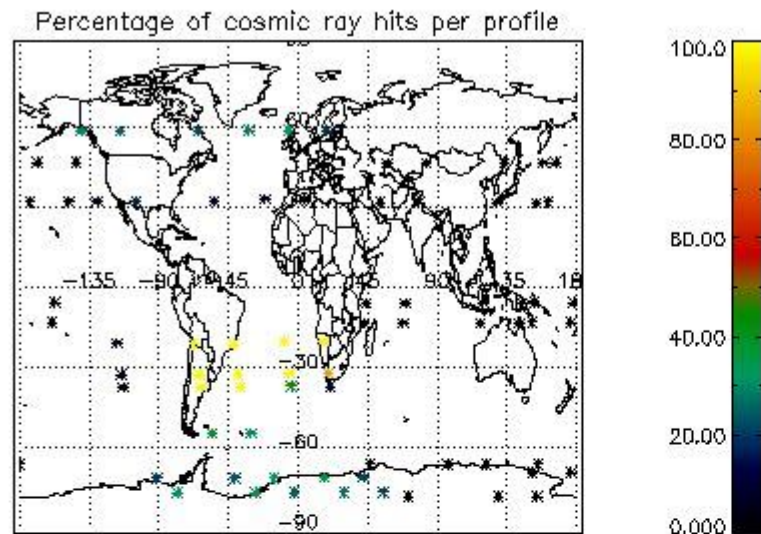
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	35.5263 %
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)



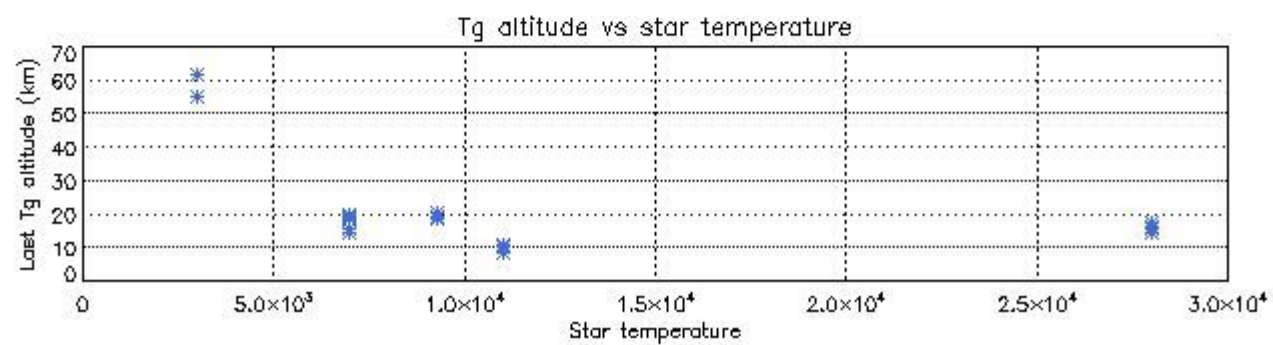
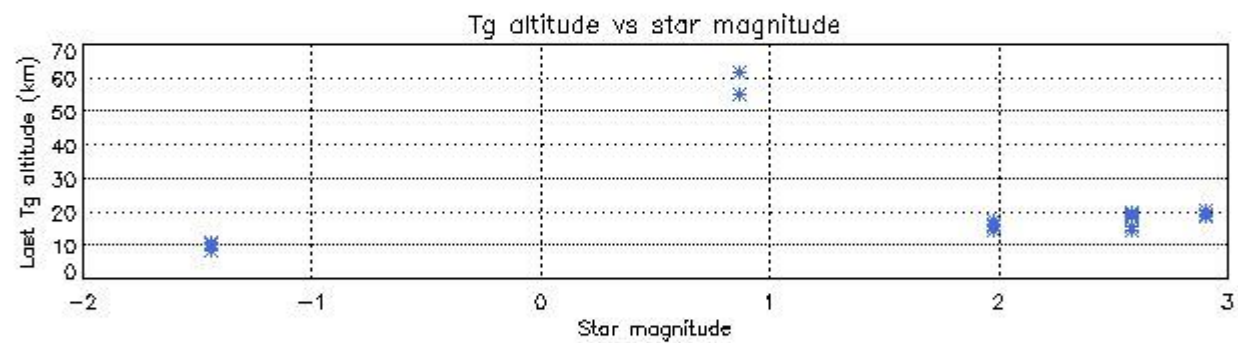
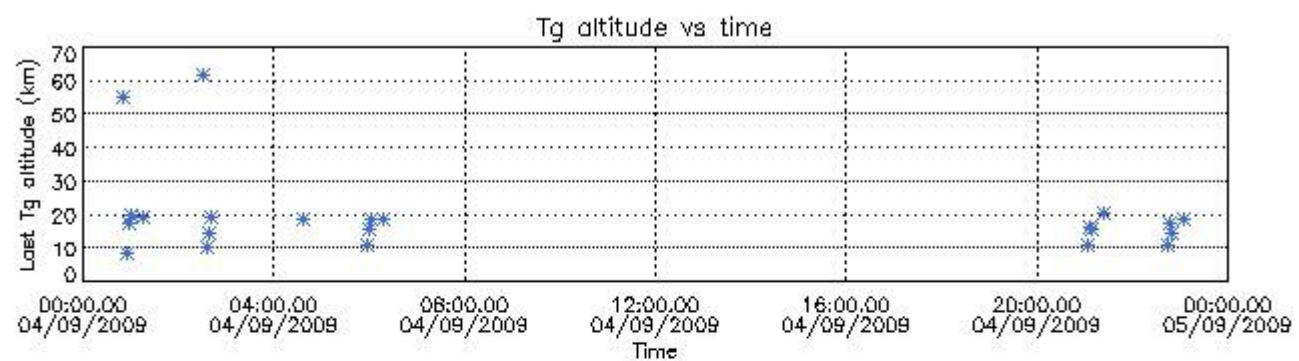
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	19.606	21.105	NaN
St. deviation:	13.111	5.3878	NaN
Maximum:	61.906	30.551	NaN
Minimum:	8.1229	3.2270	NaN
Number of data:	22.000	36.000	NaN

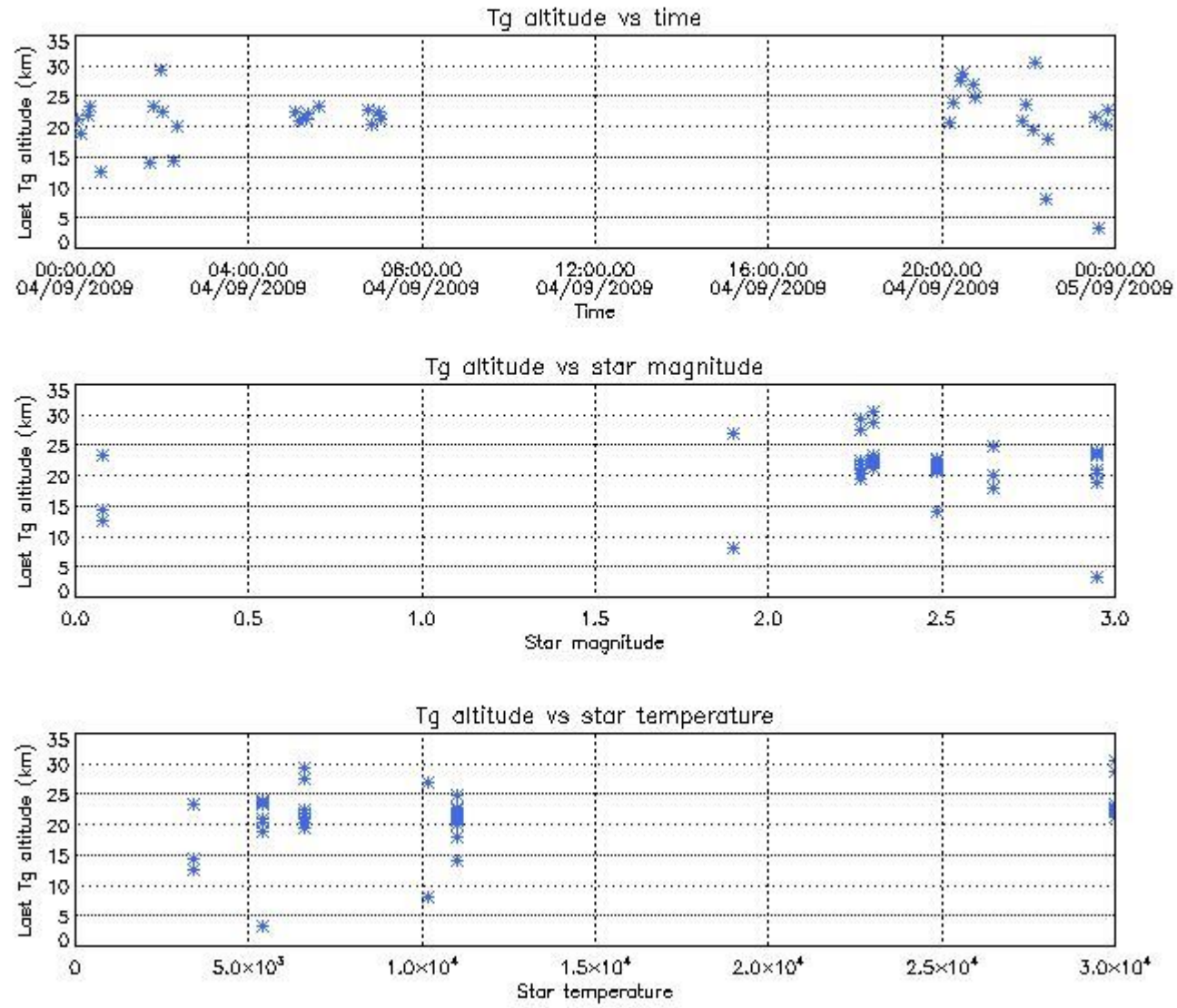
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

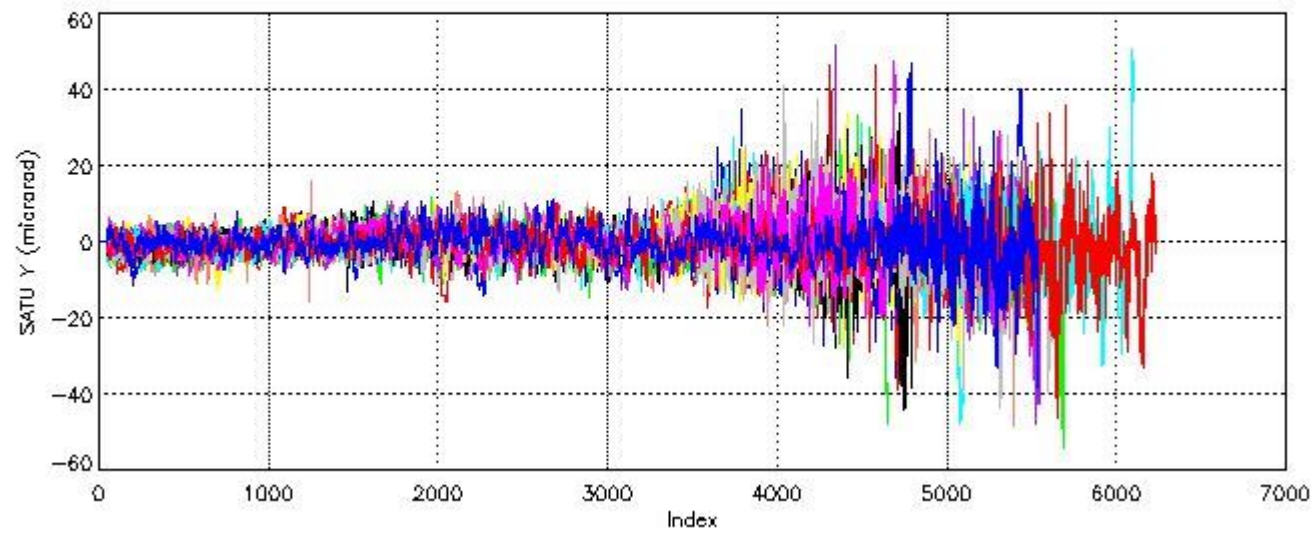
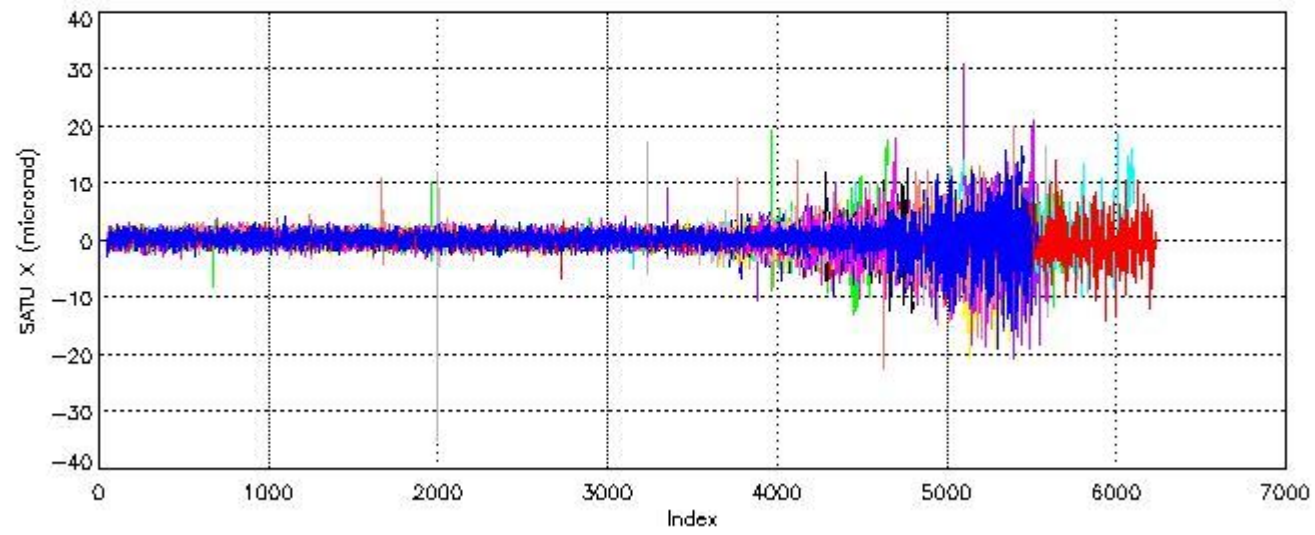


7. Star Acquisition and Tracking Unit (SATU)

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:	0.28849	-0.70878	0.33409	-0.66276
St. deviation:	0.59064	2.1011	0.85577	2.1498
Maximum:	4.2000	8.0000	4.6000	9.1000
Minimum:	-8.2000	-12.700	-4.1000	-12.200

Number of data:	26900.	26900.	38950.	38950.
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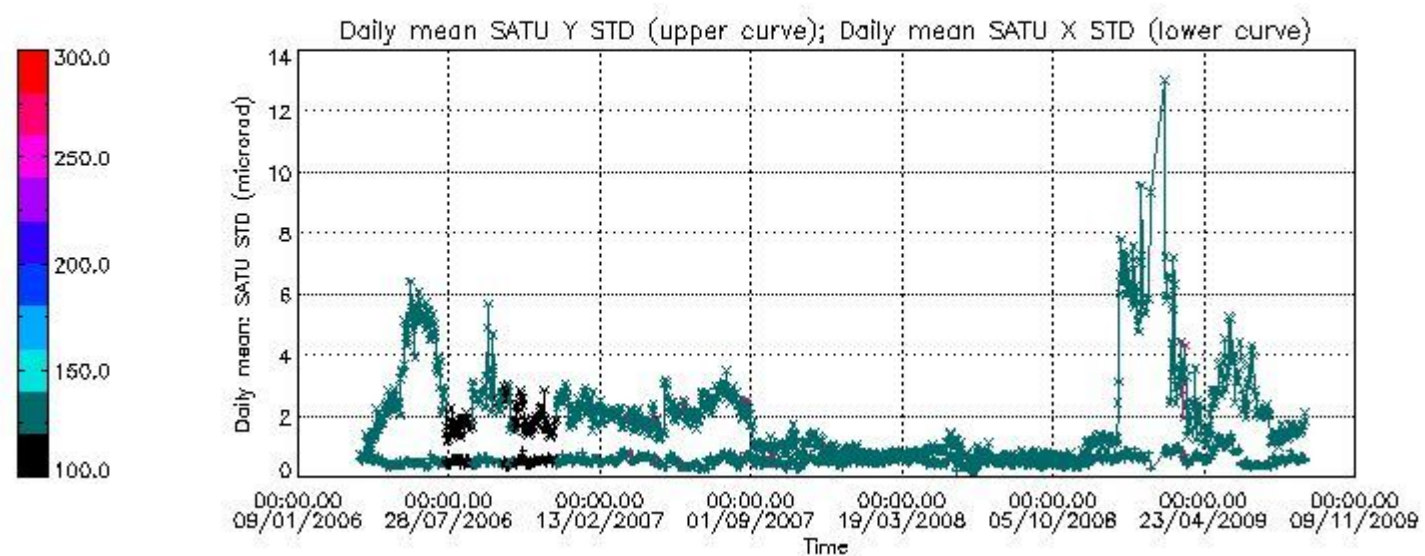
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

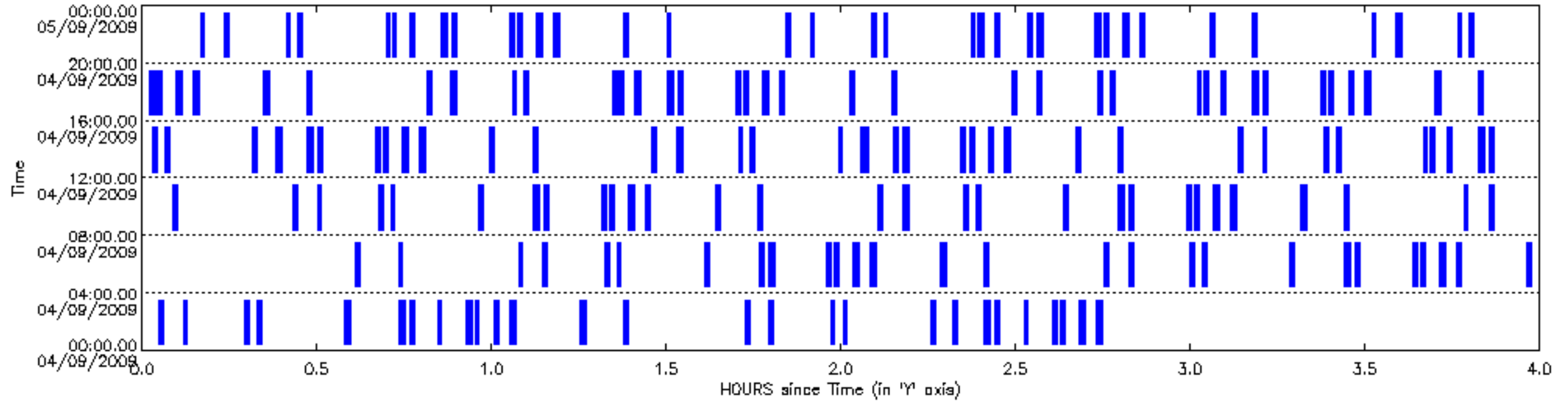
Lower curve: STD of SATU X axis

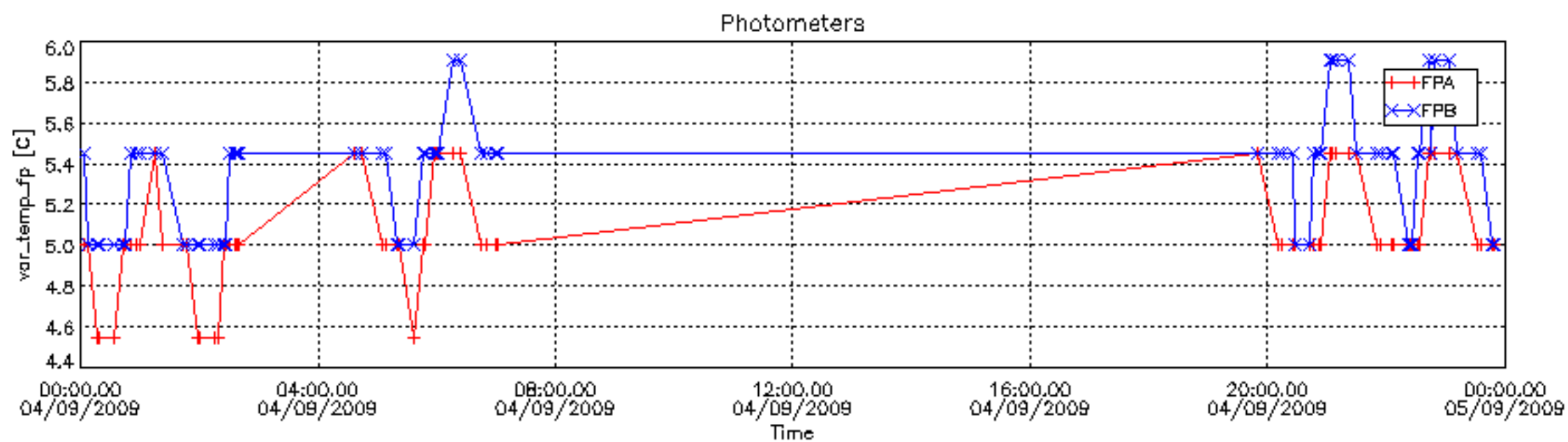
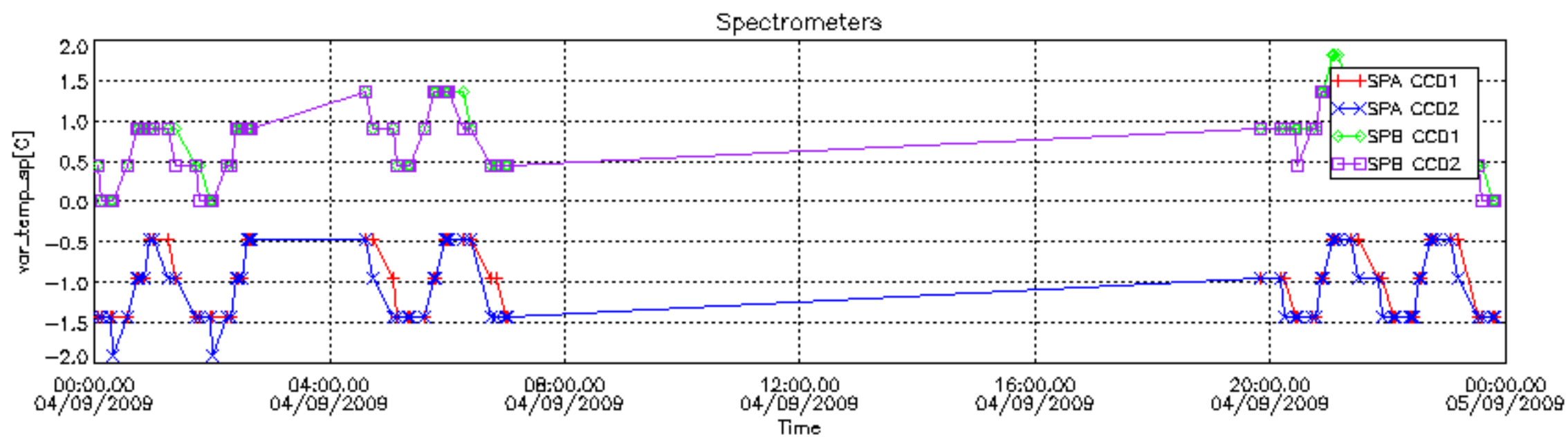


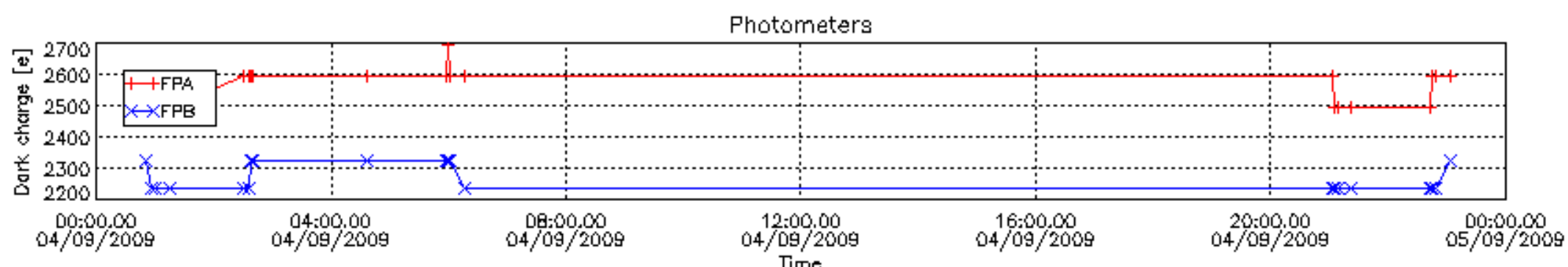
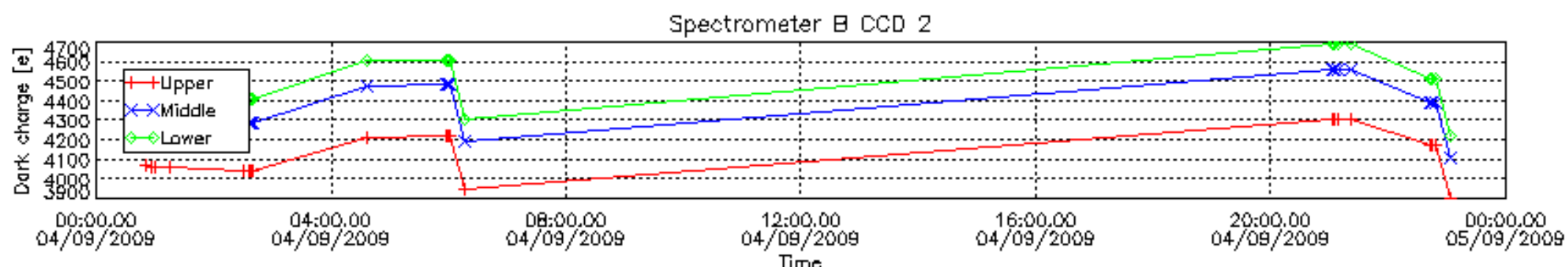
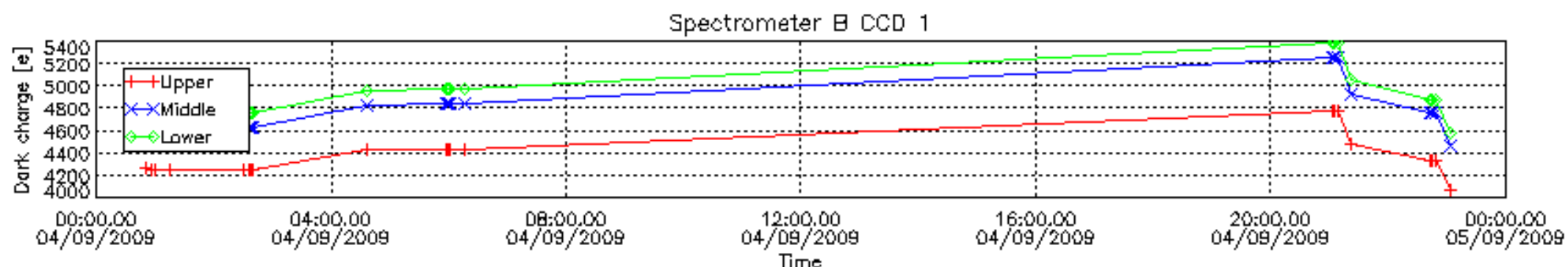
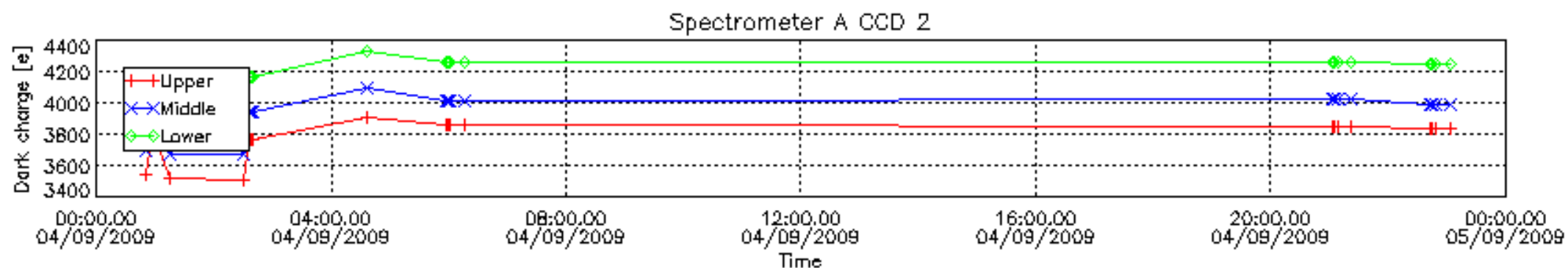
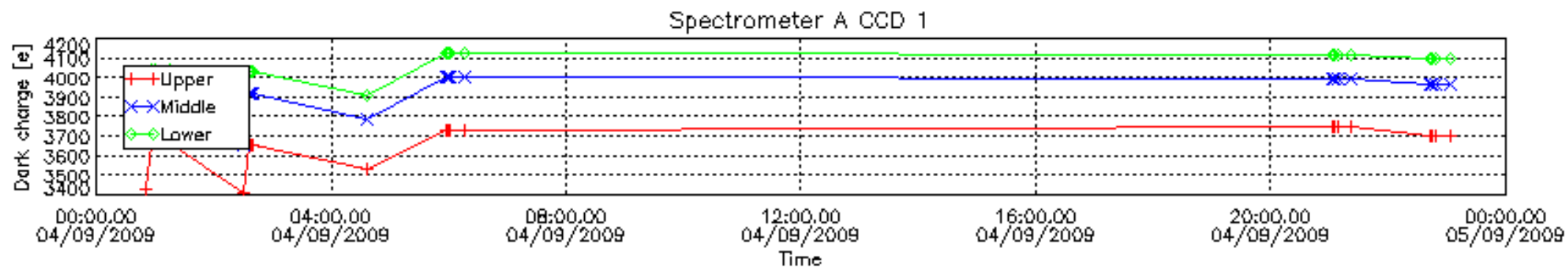
8. Auxiliary Data Files used for the production reported in section 2.4

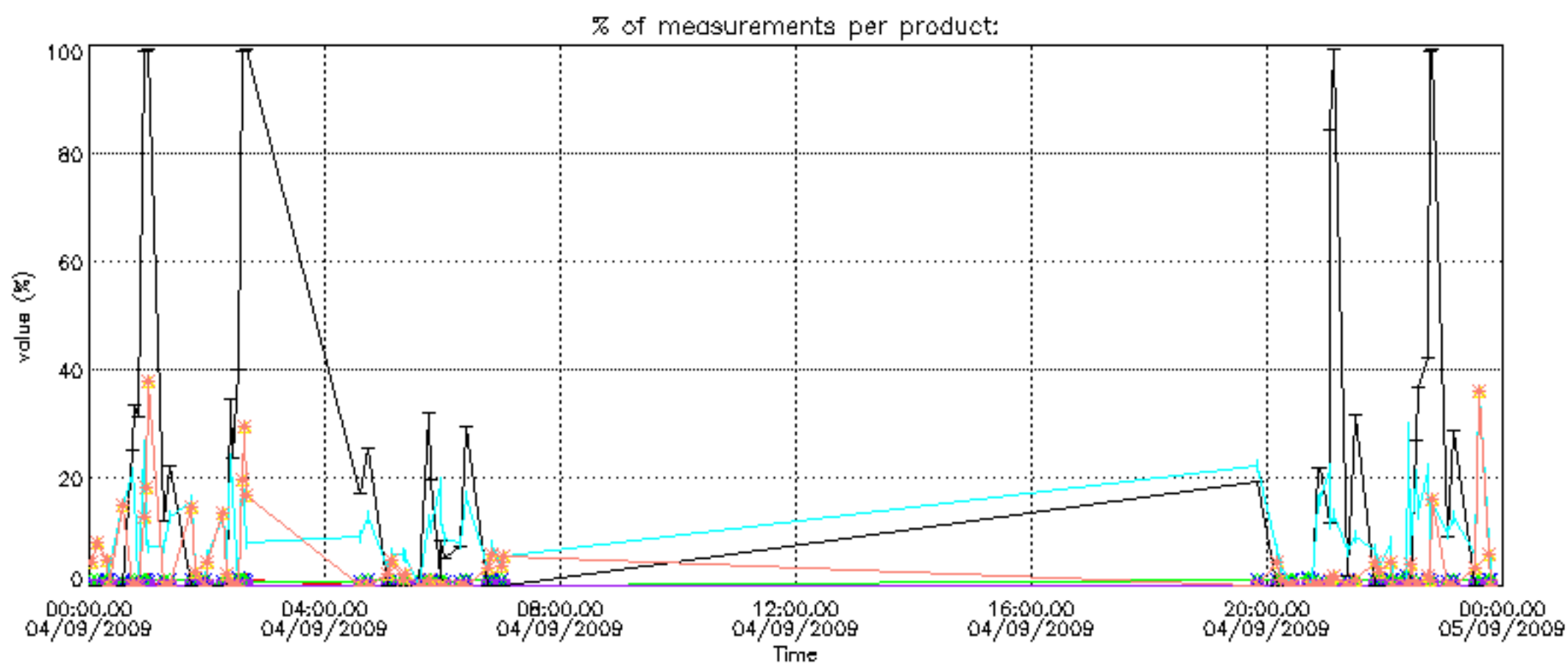
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-SEP-2009 00:02:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090831_103835_20090829_000000_20100101_000000	1	04-SEP-2009 00:02:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-SEP-2009 00:02:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-SEP-2009 00:02:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-SEP-2009 00:02:51
ECMWF_FILE	AUX_ECF_AXNECM20090903_064110_20090903_210000_20090904_090000	1	04-SEP-2009 00:02:51
ECMWF_FILE	AUX_ECF_AXNECM20090903_184110_20090904_030000_20090904_150000	26	04-SEP-2009 04:36:31
ECMWF_FILE	AUX_ECF_AXNECM20090904_064110_20090904_150000_20090905_030000	44	04-SEP-2009 19:49:26
ECMWF_FILE	AUX_ECF_AXNECM20090904_064111_20090904_210000_20090905_090000	54	04-SEP-2009 21:03:04
OPTIONAL_ECMWF_FILE	MISSING	1	04-SEP-2009 00:02:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090903_212748_000057382082_00143_39275_8687.N1	1	04-SEP-2009 00:02:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090903_230845_000060572082_00144_39276_8688.N1	9	04-SEP-2009 00:55:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090904_004942_000047822082_00145_39277_8689.N1	18	04-SEP-2009 02:15:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090904_020924_000054192082_00146_39278_8690.N1	26	04-SEP-2009 04:36:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090904_034502_000057382082_00147_39279_8691.N1	32	04-SEP-2009 05:36:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090904_194643_000038252082_00157_39289_8693.N1	44	04-SEP-2009 19:49:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090904_205028_000063762082_00157_39289_8694.N1	68	04-SEP-2009 22:43:40

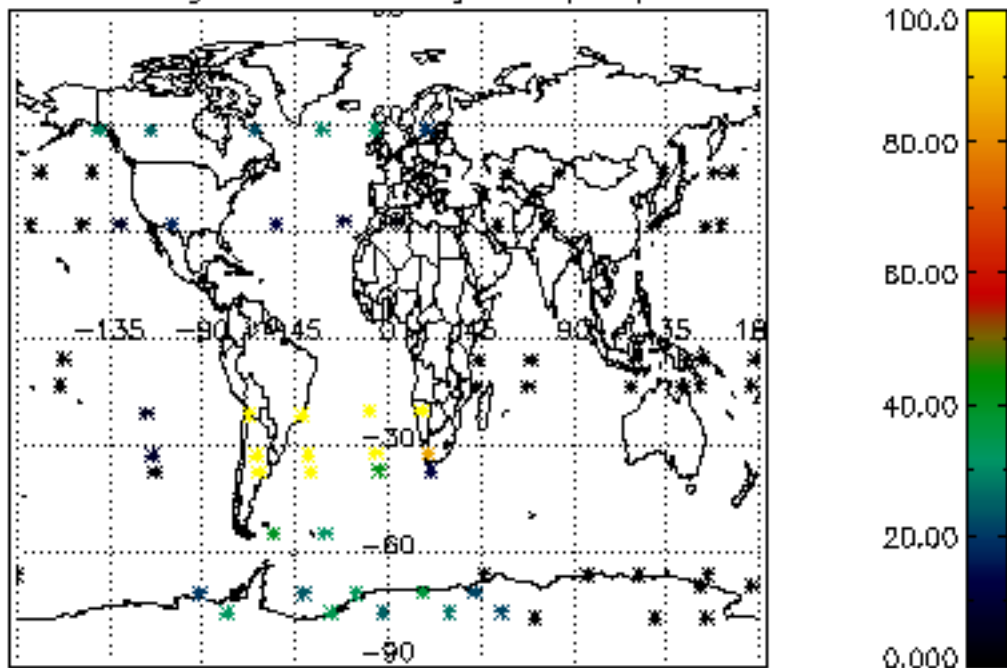




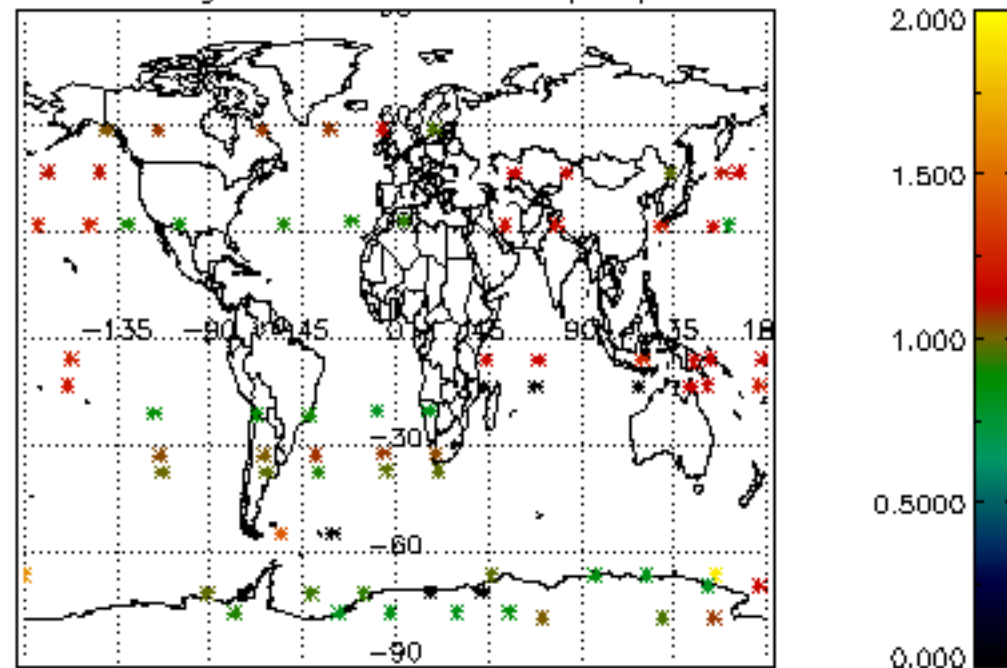




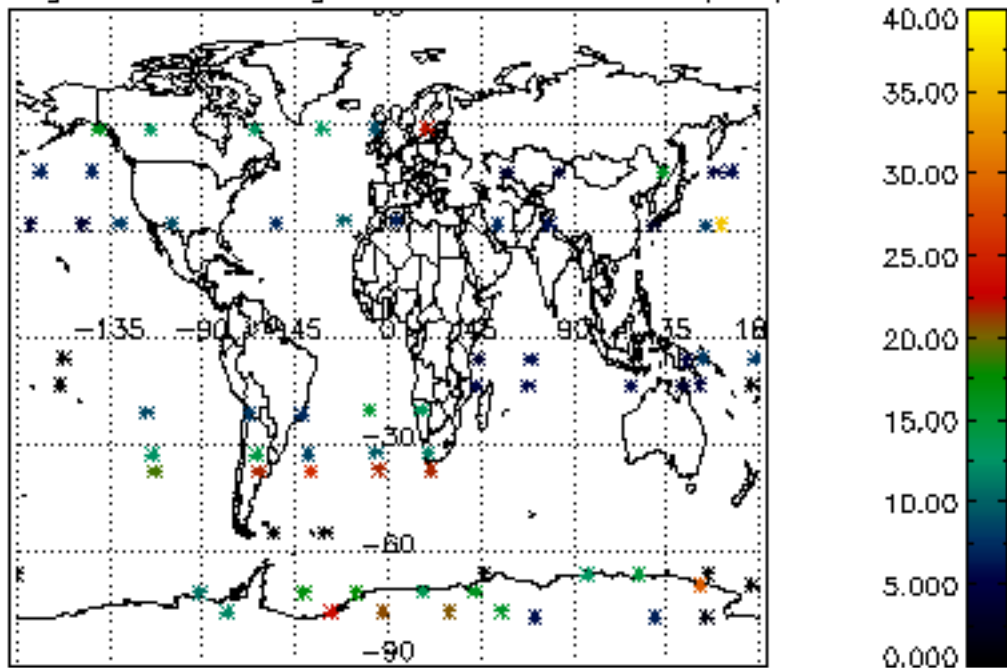
Percentage of cosmic ray hits per profile



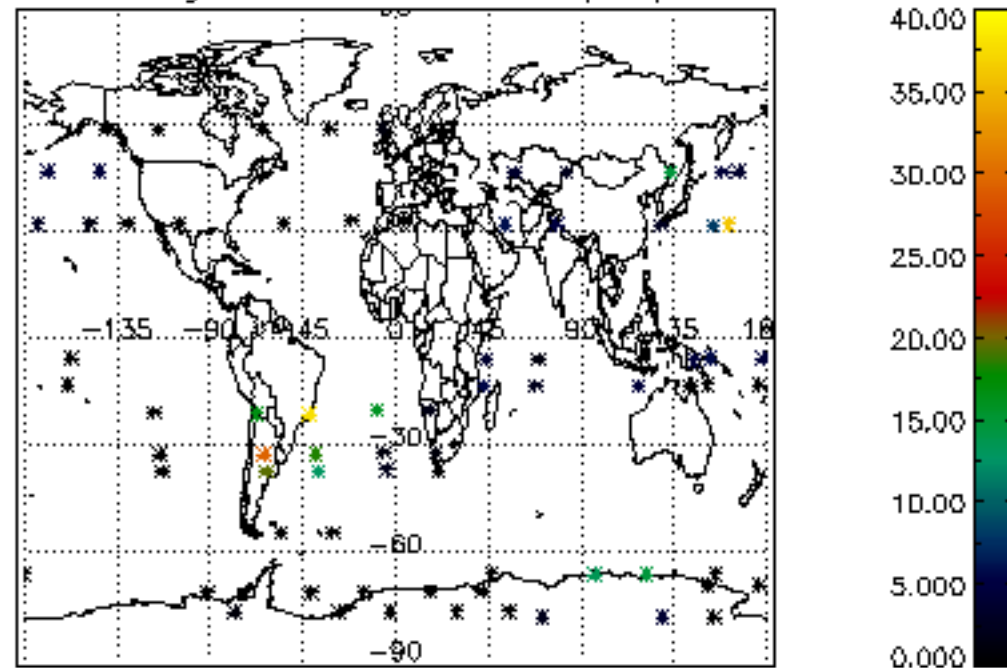
Percentage of datation errors per profile



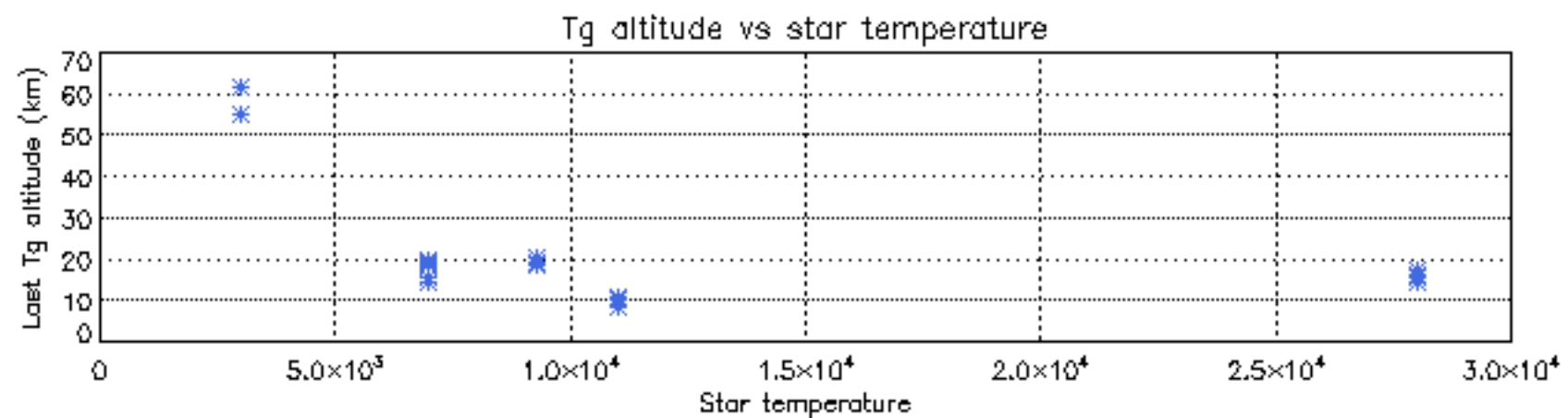
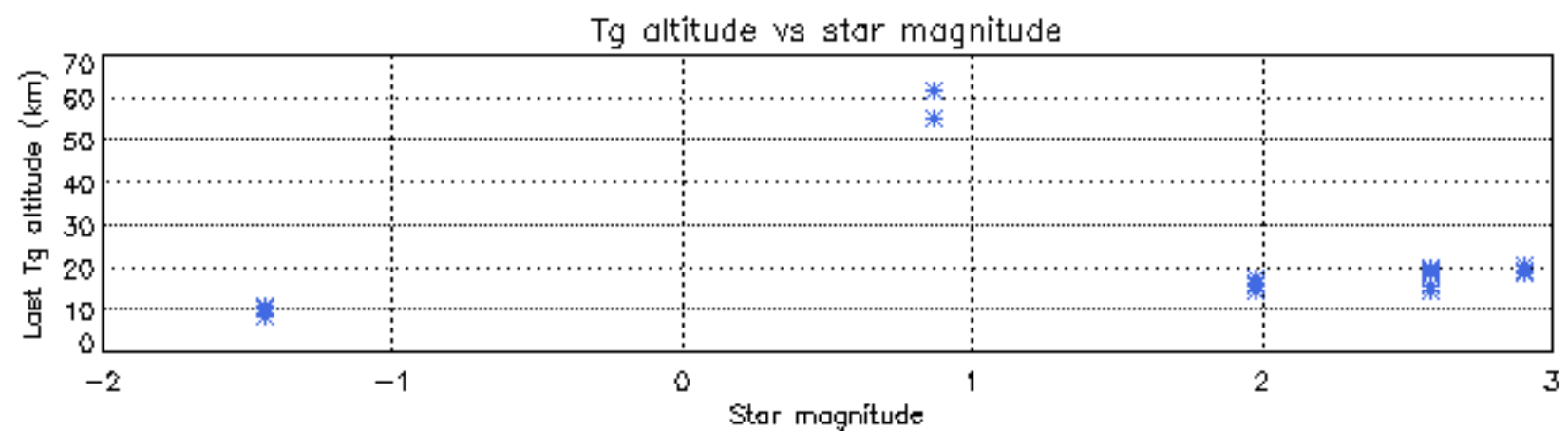
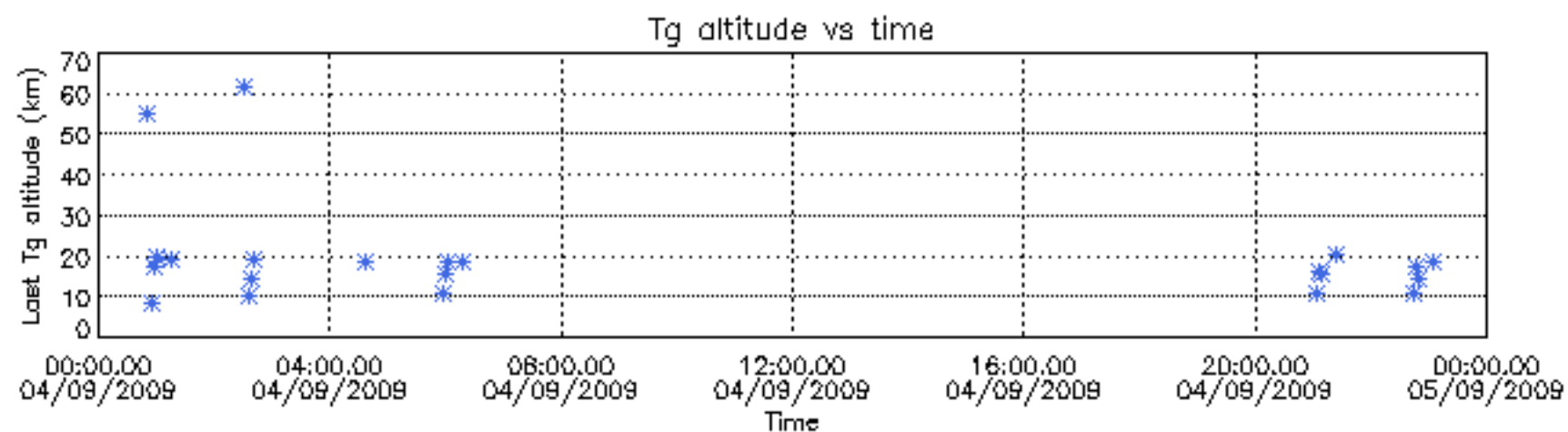
Percentage of star falling outside central band per profile



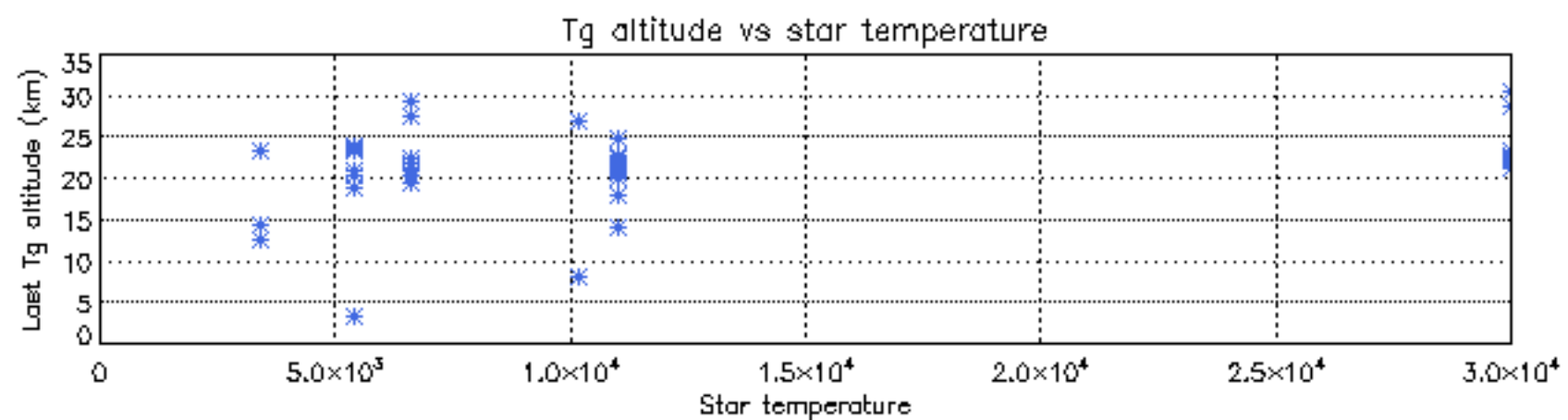
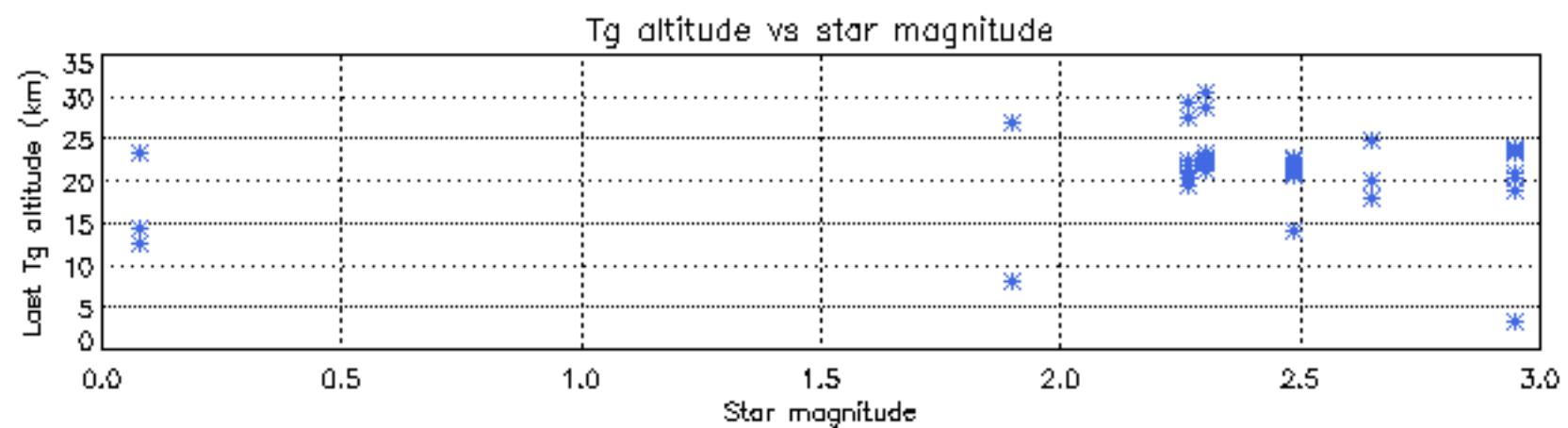
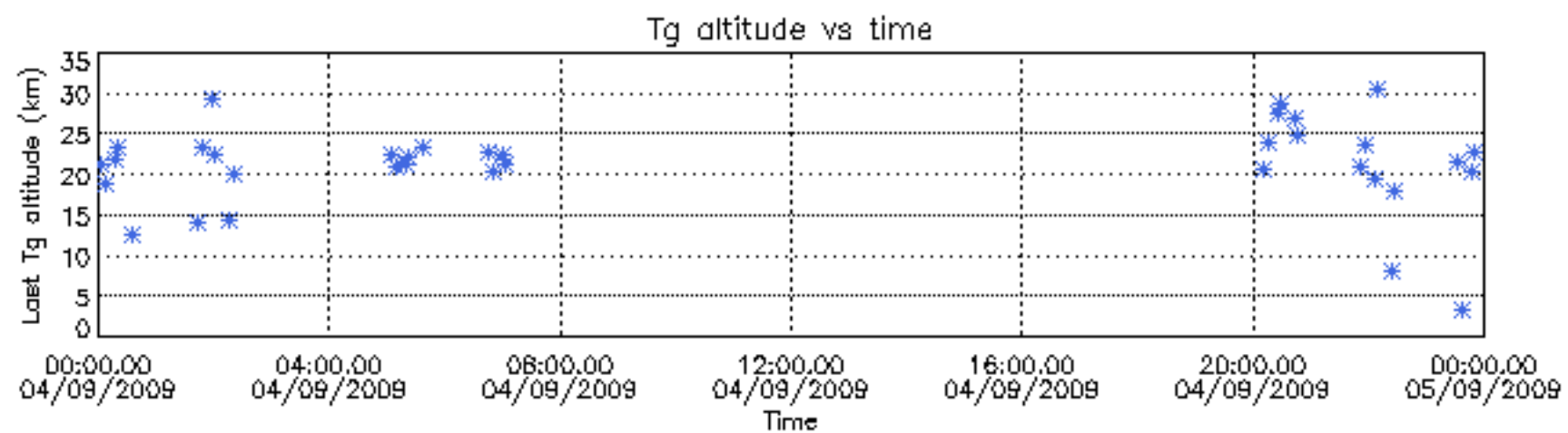
Percentage of saturation errors per profile

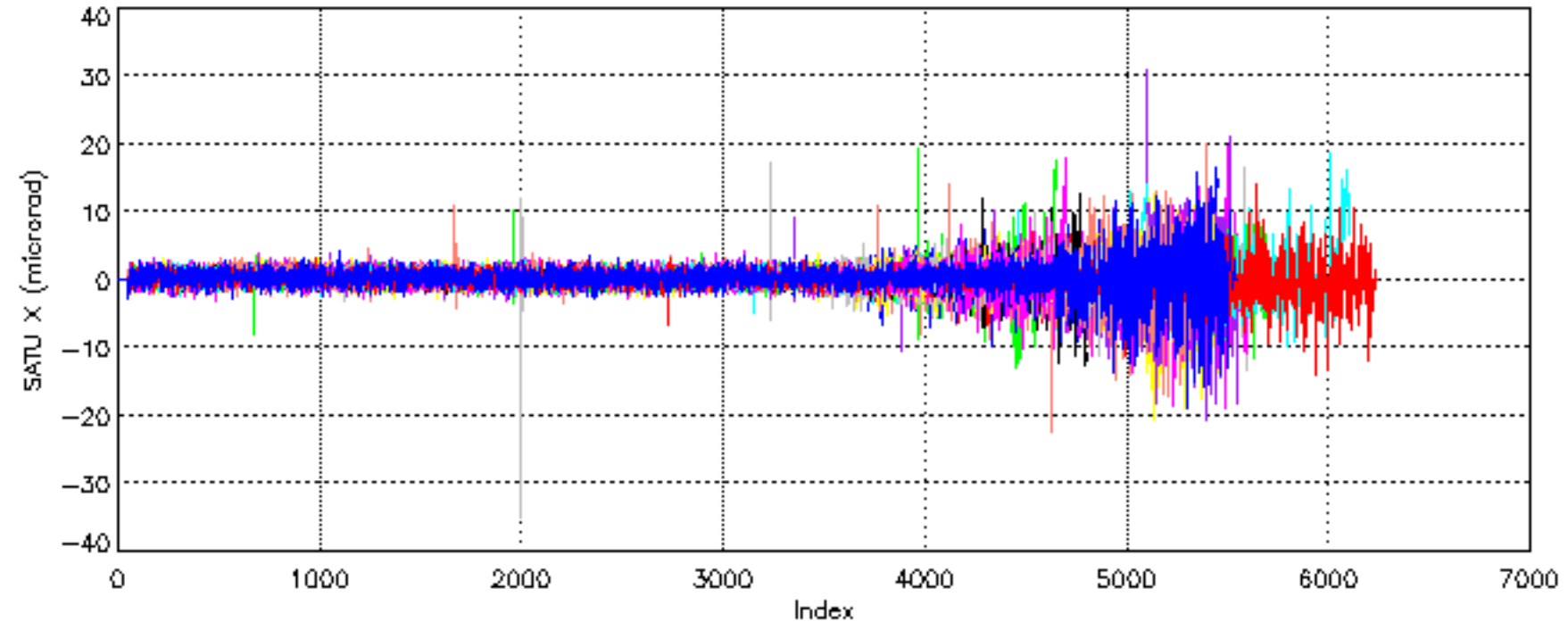


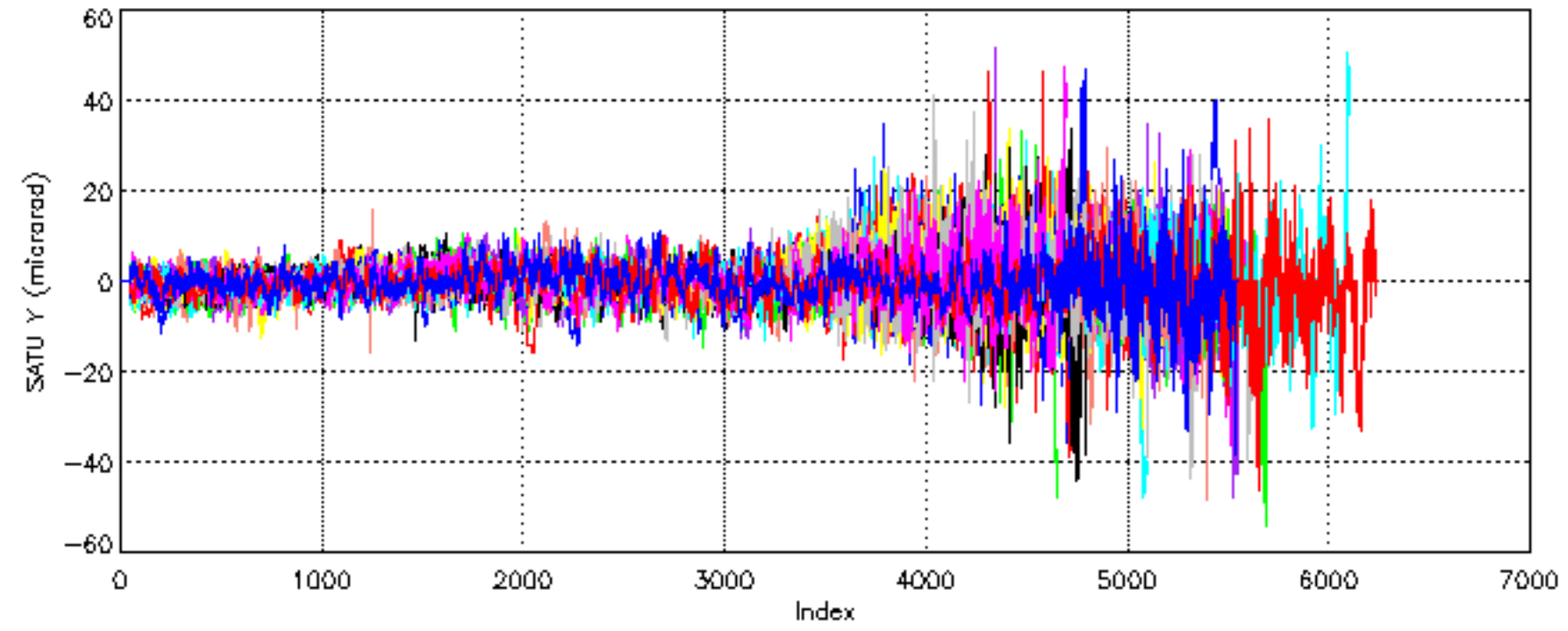
Tangent altitude at which the star is lost

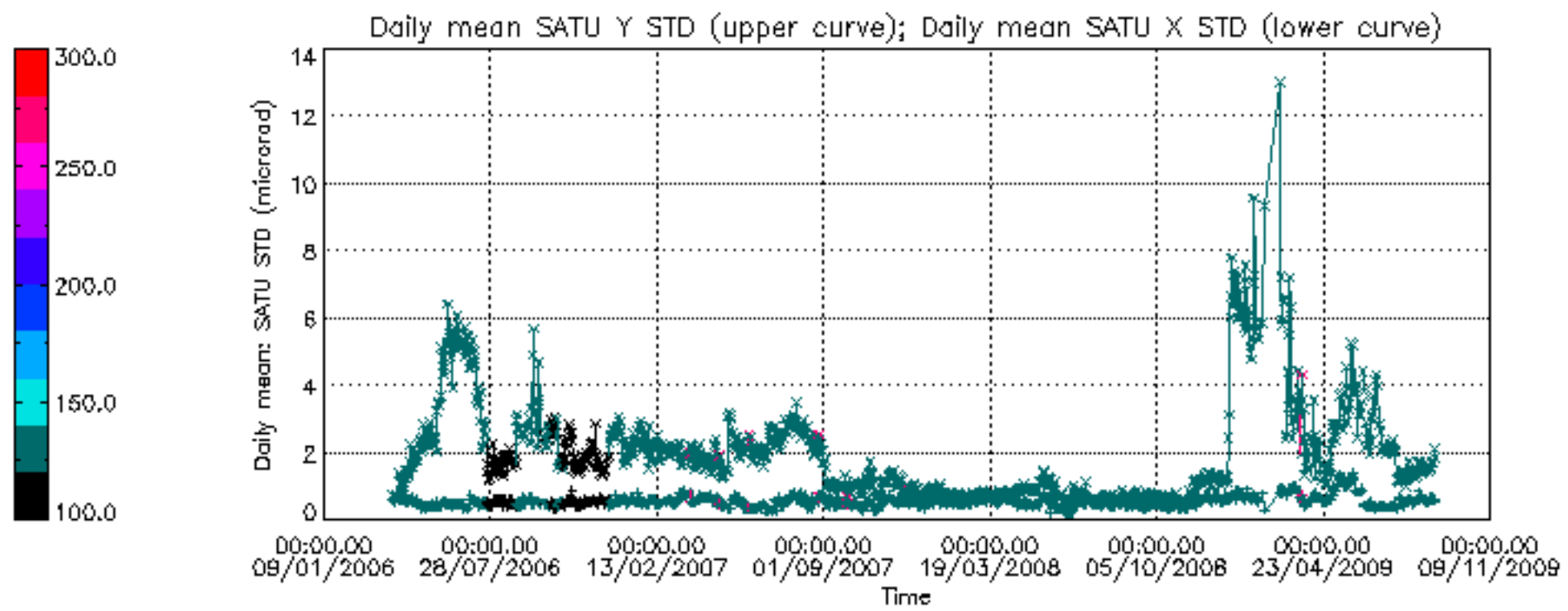


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090901_004836_000055572082_00102_39234_8472.N1

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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7; 4688.4; 01-SEP-2009 09:01:05; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;39239
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2; 987.9; 04-SEP-2009 04:43:57; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;39280
3; 2228.4; 04-SEP-2009 05:04:38; Bright; 44.5; 90; 54Alp Peg ; 2.49; 11000;occ; 89; 0;39280
4; 2480.9; 04-SEP-2009 05:08:50; Bright; 42.0; 164; 44Eta Peg ; 2.95; 5400;occ; 84; 0;39280
5; 3115.5; 04-SEP-2009 05:19:25; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;39280
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3; -1224.5; 04-SEP-2009 05:47:41; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;39280
4; -631.5; 04-SEP-2009 05:57:34; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;39280
5; -548.9; 04-SEP-2009 05:58:57; Dark ; 48.0; 47; 2Bet CMA ; 1.98; 28000;occ; 96; 0;39280
6; -355.6; 04-SEP-2009 06:02:10; Dark ; 57.0; 101; 11Alp Lep ; 2.58; 7000;occ; 114; 0;39280
7; -182.3; 04-SEP-2009 06:05:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39280
8; 542.6; 04-SEP-2009 06:17:08; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39281
9; 988.4; 04-SEP-2009 06:24:34; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;39281
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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
12; 3114.6; 04-SEP-2009 07:00:00; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;39281
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3; 2477.3; 04-SEP-2009 20:14:10; Bright; 40.0; 164; 44Eta Peg ; 2.95; 5400;occ; 80; 0;39289
4; 3110.0; 04-SEP-2009 20:24:43; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39289
5; 3233.7; 04-SEP-2009 20:26:47; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;39289
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6; 993.3; 04-SEP-2009 21:30:02; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;39290
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3; 3114.0; 04-SEP-2009 08:40:35; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;39282
4; 3238.5; 04-SEP-2009 08:42:40; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39282
5; 4142.4; 04-SEP-2009 08:57:44; Bright; 46.0; 6; 13Alp Aur ; 0.08; 3400;occ; 92; 0;39282
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7; 4812.4; 04-SEP-2009 09:08:54; Dark ; 52.0; 44; 24Gam Gem ; 1.93; 11000;occ; 104; 0;39282
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3; 3113.0; 04-SEP-2009 12:01:46; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39284
4; 3237.2; 04-SEP-2009 12:03:50; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;39284
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6; 4378.9; 04-SEP-2009 12:22:52; Bright; 72.0; 107; 37The Aur ; 2.65; 11000;occ; 144; 0;39284
7; 4703.9; 04-SEP-2009 12:28:17; Dark ; 60.5; 151; 13Mu Gem ; 2.89; 3000;occ; 121; 0;39284
8; 4813.2; 04-SEP-2009 12:30:06; Dark ; 54.0; 44; 24Gam Gem ; 1.93; 11000;occ; 108; 0;39284
9; 5407.3; 04-SEP-2009 12:40:00; Dark ; 51.0; 1; 9Alp CMA ; -1.44; 11000;occ; 102; 0;39284
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13; 6583.3; 04-SEP-2009 12:59:36; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39284
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13; 5884.7; 14-SEP-2009 09:12:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39425
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 7; 4171.4; 14-SEP-2009 10:24:25; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;39426
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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
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 14; 5888.4; 14-SEP-2009 15:54:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39429
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 7; 3145.6; 14-SEP-2009 16:49:43; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;39430
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 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
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 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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