

GOMOS Daily Report 17-JUL-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	22JUL2009 04:45:32
Data source version	GOMOS/5.00
Start time of products	17JUL2009 00:11:48
Stop time of products	17JUL2009 23:50:51
Store outputs in DB	Yes
Nb of level 1b prods	78
Nb of prods with errors	1

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

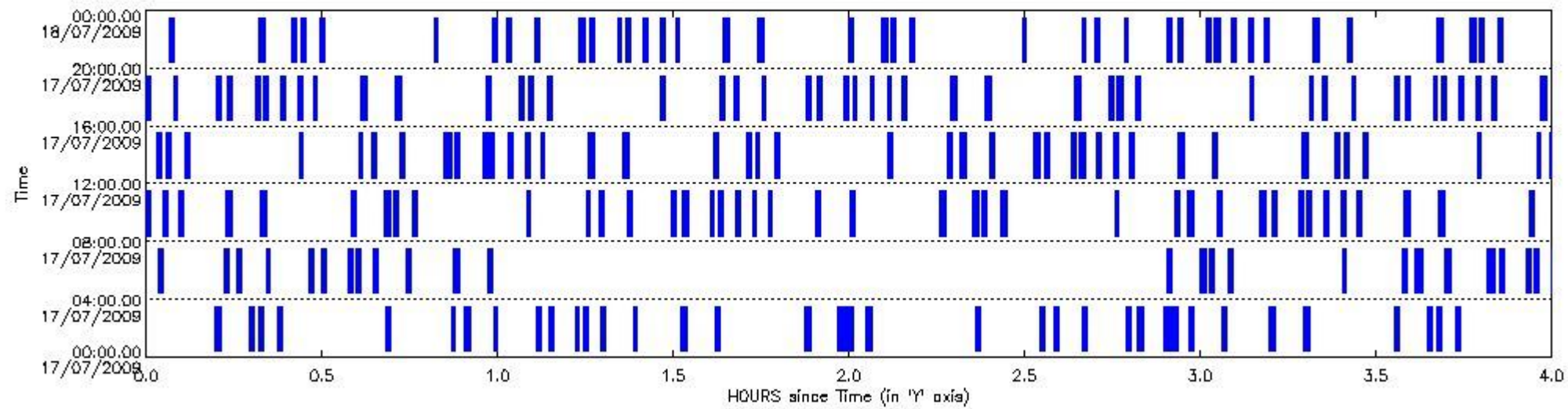
2.1 Level 0 products arrived in PCF (see template [here](#))

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.

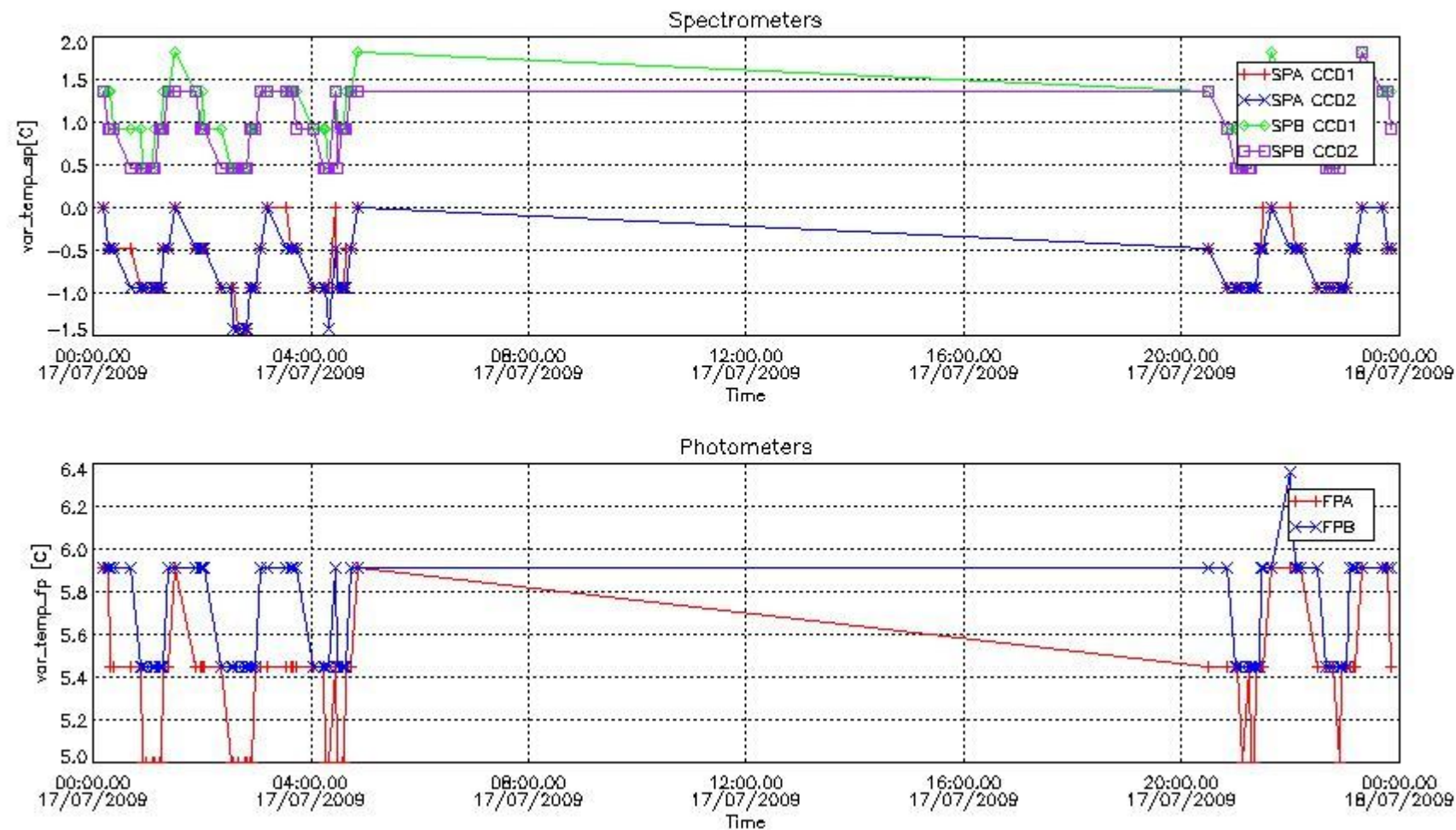
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090717_001148_000000552080_00446_38576_0648.N1	17-JUL-2009 00:11:48	Dark	55.000	84	Alp Phe	2.3970	4500.0	110	38576	No
2	GOM_TRA_1PNPDE20090717_001731_000000502080_00446_38576_0649.N1	17-JUL-2009 00:17:31	Straylight	50.000	63	Bet Gru	2.1500	2800.0	100	38576	No
3	GOM_TRA_1PNPDE20090717_001905_000000512080_00446_38576_0650.N1	17-JUL-2009 00:19:05	Straylight	51.000	31	Alp Gru	1.7340	15200.	102	38576	No
4	GOM_TRA_1PNPDE20090717_002218_000000522080_00446_38576_0651.N1	17-JUL-2009 00:22:18	Straylight	51.500	172	Gam Gru	3.0030	13100.	103	38576	No
5	GOM_TRA_1PNPDE20090717_004057_000000442080_00446_38576_0652.N1	17-JUL-2009 00:40:57	Bright	44.000	11	53Alp Aql	0.76500	8000.0	88	38576	No
6	GOM_TRA_1PNPDE20090717_005206_000000392080_00446_38576_0653.N1	17-JUL-2009 00:52:06	Bright	38.500	144	18Del Cyg	2.8600	11000.	77	38576	No
7	GOM_TRA_1PNPDE20090717_005422_000000612080_00446_38576_0654.N1	17-JUL-2009 00:54:22	Bright	61.000	19	50Alp Cyg	1.2460	10500.	122	38576	No
8	GOM_TRA_1PNPDE20090717_005916_000000402080_00446_38576_0655.N1	17-JUL-2009 00:59:16	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	38576	No
9	GOM_TRA_1PNPDE20090717_010641_000000502080_00446_38576_0656.N1	17-JUL-2009 01:06:41	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38576	No
10	GOM_TRA_1PNPDE20090717_010838_000000522080_00446_38576_0657.N1	17-JUL-2009 01:08:38	Bright	51.500	68	18Alp Cas	2.2250	4500.0	103	38576	No
11	GOM_TRA_1PNPDE20090717_011314_000000422080_00446_38576_0658.N1	17-JUL-2009 01:13:14	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	38576	No
12	GOM_TRA_1PNPDE20090717_011436_000000472080_00446_38576_0659.N1	17-JUL-2009 01:14:36	Bright	47.000	35	33Alp Per	1.7950	6250.0	94	38576	No

13	GOM_TRA_1PNPDE20090717_011734_00000502080_00446_38576_0660.N1	17-JUL-2009 01:17:34	Bright	50.000	79	26Bet Per	2.3100	13100.	100	38576	No
14	GOM_TRA_1PNPDE20090717_012305_00000422080_00446_38576_0661.N1	17-JUL-2009 01:23:05	Twilight	41.500	146	25Eta Tau	2.8730	15200.	83	38576	No
15	GOM_TRA_1PNPDE20090717_013110_00000692080_00446_38576_0662.N1	17-JUL-2009 01:31:10	Dark	68.500	94	92Alp Cet	2.5260	3100.0	137	38576	No
16	GOM_TRA_1PNPDE20090717_015225_00000632080_00447_38577_0810.N1	17-JUL-2009 01:52:25	Dark	62.500	84	Alp Phe	2.3970	4500.0	125	38577	No
17	GOM_TRA_1PNPDE20090717_015807_00000672080_00447_38577_0811.N1	17-JUL-2009 01:58:07	Straylight	67.000	63	Bet Gru	2.1500	2800.0	134	38577	No
18	GOM_TRA_1PNPDE20090717_015942_00000572080_00447_38577_0812.N1	17-JUL-2009 01:59:42	Straylight	56.500	31	Alp Gru	1.7340	15200.	113	38577	No
19	GOM_TRA_1PNPDE20090717_020255_00000532080_00447_38577_0813.N1	17-JUL-2009 02:02:55	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38577	No
20	GOM_TRA_1PNPDE20090717_022133_00000482080_00447_38577_0814.N1	17-JUL-2009 02:21:33	Bright	48.000	11	53Alp Aql	0.76500	8000.0	96	38577	No
21	GOM_TRA_1PNPDE20090717_023242_00000412080_00447_38577_0815.N1	17-JUL-2009 02:32:42	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	38577	No
22	GOM_TRA_1PNPDE20090717_023457_00000452080_00447_38577_0816.N1	17-JUL-2009 02:34:57	Bright	45.000	19	50Alp Cyg	1.2460	10500.	90	38577	No
23	GOM_TRA_1PNPDE20090717_023952_00000402080_00447_38577_0817.N1	17-JUL-2009 02:39:52	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	38577	No
24	GOM_TRA_1PNPDE20090717_024716_00000502080_00447_38577_0818.N1	17-JUL-2009 02:47:16	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38577	No
25	GOM_TRA_1PNPDE20090717_024913_00000572080_00447_38577_0819.N1	17-JUL-2009 02:49:13	Bright	56.500	68	18Alp Cas	2.2250	4500.0	113	38577	No
26	GOM_TRA_1PNPDE20090717_025350_00000522080_00447_38577_0997.N1	17-JUL-2009 02:53:50	Bright	52.000	160	23Gam Per	2.9300	4700.0	104	38577	No
27	GOM_TRA_1PNPDE20090717_025512_00000512080_00447_38577_0998.N1	17-JUL-2009 02:55:12	Bright	51.000	35	33Alp Per	1.7950	6250.0	102	38577	No
28	GOM_TRA_1PNPDE20090717_025810_00000442080_00447_38577_0999.N1	17-JUL-2009 02:58:10	Bright	43.500	79	26Bet Per	2.3100	13100.	87	38577	No
29	GOM_TRA_1PNPDE20090717_030342_00000412080_00447_38577_1000.N1	17-JUL-2009 03:03:42	Twilight	41.000	146	25Eta Tau	2.8730	15200.	82	38577	No
30	GOM_TRA_1PNPDE20090717_031147_00000642080_00447_38577_1001.N1	17-JUL-2009 03:11:47	Dark	64.000	94	92Alp Cet	2.5260	3100.0	128	38577	No
31	GOM_TRA_1PNPDE20090717_033302_00000562080_00448_38578_1002.N1	17-JUL-2009 03:33:02	Dark	56.000	84	Alp Phe	2.3970	4500.0	112	38578	No
32	GOM_TRA_1PNPDE20090717_033844_00000542080_00448_38578_1003.N1	17-JUL-2009 03:38:44	Straylight	54.000	63	Bet Gru	2.1500	2800.0	108	38578	No
33	GOM_TRA_1PNPDE20090717_034018_00000472080_00448_38578_1004.N1	17-JUL-2009 03:40:18	Straylight	46.500	31	Alp Gru	1.7340	15200.	93	38578	No
34	GOM_TRA_1PNPDE20090717_034332_00000512080_00448_38578_1005.N1	17-JUL-2009 03:43:32	Straylight	50.500	172	Gam Gru	3.0030	13100.	101	38578	No
35	GOM_TRA_1PNPDE20090717_040208_00000492080_00448_38578_1006.N1	17-JUL-2009 04:02:08	Bright	48.500	11	53Alp Aql	0.76500	8000.0	97	38578	No
36	GOM_TRA_1PNPDE20090717_041317_00000422080_00448_38578_1007.N1	17-JUL-2009 04:13:17	Bright	41.500	144	18Del Cyg	2.8600	11000.	83	38578	No
37	GOM_TRA_1PNPDE20090717_041532_00000452080_00448_38578_1008.N1	17-JUL-2009 04:15:32	Bright	45.000	19	50Alp Cyg	1.2460	10500.	90	38578	No
38	GOM_TRA_1PNPDE20090717_042027_00000412080_00448_38578_1009.N1	17-JUL-2009 04:20:27	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	38578	No
39	GOM_TRA_1PNPDE20090717_042752_00000502080_00448_38578_1195.N1	17-JUL-2009 04:27:52	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38578	Yes
40	GOM_TRA_1PNPDE20090717_042948_00000522080_00448_38578_1196.N1	17-JUL-2009 04:29:48	Bright	51.500	68	18Alp Cas	2.2250	4500.0	103	38578	No
41	GOM_TRA_1PNPDE20090717_043426_00000452080_00448_38578_1197.N1	17-JUL-2009 04:34:26	Bright	45.000	160	23Gam Per	2.9300	4700.0	90	38578	No
42	GOM_TRA_1PNPDE20090717_043548_00000452080_00448_38578_1198.N1	17-JUL-2009 04:35:48	Bright	44.500	35	33Alp Per	1.7950	6250.0	89	38578	No
43	GOM_TRA_1PNPDE20090717_043845_00000502080_00448_38578_1199.N1	17-JUL-2009 04:38:45	Bright	50.000	79	26Bet Per	2.3100	13100.	100	38578	No
44	GOM_TRA_1PNPDE20090717_044418_00000452080_00448_38578_1200.N1	17-JUL-2009 04:44:18	Twilight	45.000	146	25Eta Tau	2.8730	15200.	90	38578	No
45	GOM_TRA_1PNPDE20090717_045224_00000602080_00448_38578_1201.N1	17-JUL-2009 04:52:24	Dark	59.500	94	92Alp Cet	2.5260	3100.0	119	38578	No
46	GOM_TRA_1PNPDE20090717_202938_00000532080_00458_38588_1687.N1	17-JUL-2009 20:29:38	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38588	No
47	GOM_TRA_1PNPDE20090717_204903_00000412080_00458_38588_1688.N1	17-JUL-2009 20:49:03	Bright	40.500	168	17Zet Aql	2.9860	11000.	81	38588	No
48	GOM_TRA_1PNPDE20090717_205912_00000402080_00458_38588_1689.N1	17-JUL-2009 20:59:12	Bright	40.000	144	18Del Cyg	2.8600	11000.	80	38588	No
49	GOM_TRA_1PNPDE20090717_210123_00000502080_00458_38588_1690.N1	17-JUL-2009 21:01:23	Bright	49.500	19	50Alp Cyg	1.2460	10500.	99	38588	No
50	GOM_TRA_1PNPDE20090717_210621_00000442080_00458_38588_1691.N1	17-JUL-2009 21:06:21	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38588	No
51	GOM_TRA_1PNPDE20090717_211344_00000742080_00458_38588_1692.N1	17-JUL-2009 21:13:44	Bright	74.000	74	11Bet Cas	2.2680	6600.0	148	38588	No
52	GOM_TRA_1PNPDE20090717_211541_00000462080_00458_38588_1693.N1	17-JUL-2009 21:15:41	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	38588	No
53	GOM_TRA_1PNPDE20090717_212023_00000422080_00458_38588_1694.N1	17-JUL-2009 21:20:23	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	38588	No
54	GOM_TRA_1PNPDE20090717_212146_00000612080_00458_38588_1695.N1	17-JUL-2009 21:21:46	Bright	61.000	35	33Alp Per	1.7950	6250.0	122	38588	No
55	GOM_TRA_1PNPDE20090717_212445_00000462080_00458_38588_1696.N1	17-JUL-2009 21:24:45	Bright	45.500	79	26Bet Per	2.3100	13100.	91	38588	No
56	GOM_TRA_1PNPDE20090717_212742_00000462080_00458_38588_1697.N1	17-JUL-2009 21:27:42	Tw_and_stray	45.500	150	44Zet Per	2.8900	28000.	91	38588	No
57	GOM_TRA_1PNPDE20090717_213020_00000452080_00458_38588_1698.N1	17-JUL-2009 21:30:20	Twilight	45.000	146	25Eta Tau	2.8730	15200.	90	38588	No
58	GOM_TRA_1PNPDE20090717_213831_00000612080_00458_38588_1699.N1	17-JUL-2009 21:38:31	Dark	60.500	94	92Alp Cet	2.5260	3100.0	121	38588	No
59	GOM_TRA_1PNPDE20090717_215951_00000572080_00459_38589_1843.N1	17-JUL-2009 21:59:51	Dark	56.500	84	Alp Phe	2.3970	4500.0	113	38589	No
60	GOM_TRA_1PNPDE20090717_220529_00000622080_00459_38589_1844.N1	17-JUL-2009 22:05:29	Straylight	61.500	63	Bet Gru	2.1500	2800.0	123	38589	No
61	GOM_TRA_1PNPDE20090717_220701_00000502080_00459_38589_1845.N1	17-JUL-2009 22:07:01	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	38589	No
62	GOM_TRA_1PNPDE20090717_221015_00000502080_00459_38589_1846.N1	17-JUL-2009 22:10:15	Straylight	50.000	172	Gam Gru	3.0030	13100.	100	38589	No
63	GOM_TRA_1PNPDE20090717_222938_00000382080_00459_38589_1847.N1	17-JUL-2009 22:29:38	Bright	38.000	168	17Zet Aql	2.9860	11000.	76	38589	No
64	GOM_TRA_1PNPDE20090717_223947_00000412080_00459_38589_1848.N1	17-JUL-2009 22:39:47	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	38589	No
65	GOM_TRA_1PNPDE20090717_224158_00000502080_00459_38589_1849.N1	17-JUL-2009 22:41:58	Bright	50.000	19	50Alp Cyg	1.2460	10500.	100	38589	No
66	GOM_TRA_1PNPDE20090717_224656_00000442080_00459_38589_1850.N1	17-JUL-2009 22:46:56	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38589	No
67	GOM_TRA_1PNPDE20090717_225419_00000502080_00459_38589_1851.N1	17-JUL-2009 22:54:19	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38589	No
68	GOM_TRA_1PNPDE20090717_225616_00000462080_00459_38589_1852.N1	17-JUL-2009 22:56:16	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	38589	No
69	GOM_TRA_1PNPDE20090717_230059_00000462080_00459_38589_1853.N1	17-JUL-2009 23:00:59	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	38589	No
70	GOM_TRA_1PNPDE20090717_230222_00000612080_00459_38589_1854.N1	17-JUL-2009 23:02:22	Bright	61.000	35	33Alp Per	1.7950	6250.0	122	38589	No
71	GOM_TRA_1PNPDE20090717_230520_00000462080_00459_38589_1855.N1	17-JUL-2009 23:05:20	Bright	45.500	79	26Bet Per	2.3100	13100.	91	38589	No

72	GOM_TRA_1PNPDE20090717_230818_000000402080_00459_38589_1856.N1	17-JUL-2009 23:08:18	Twilight	40.000	150	44Zet Per	2.8900	28000.	80	38589	No
73	GOM_TRA_1PNPDE20090717_231056_000000462080_00459_38589_1857.N1	17-JUL-2009 23:10:56	Twilight	46.000	146	25Eta Tau	2.8730	15200.	92	38589	No
74	GOM_TRA_1PNPDE20090717_231908_000000632080_00459_38589_1858.N1	17-JUL-2009 23:19:08	Dark	62.500	94	92Alp Cet	2.5260	3100.0	125	38589	No
75	GOM_TRA_1PNPDE20090717_234027_000000542080_00460_38590_2000.N1	17-JUL-2009 23:40:27	Dark	53.500	84	Alp Phe	2.3970	4500.0	107	38590	No
76	GOM_TRA_1PNPDE20090717_234605_000000562080_00460_38590_2001.N1	17-JUL-2009 23:46:05	Straylight	56.000	63	Bet Gru	2.1500	2800.0	112	38590	No
77	GOM_TRA_1PNPDE20090717_234738_000000522080_00460_38590_2002.N1	17-JUL-2009 23:47:38	Straylight	51.500	31	Alp Gru	1.7340	15200.	103	38590	No
78	GOM_TRA_1PNPDE20090717_235051_000000512080_00460_38590_2003.N1	17-JUL-2009 23:50:51	Straylight	51.000	172	Gam Gru	3.0030	13100.	102	38590	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).

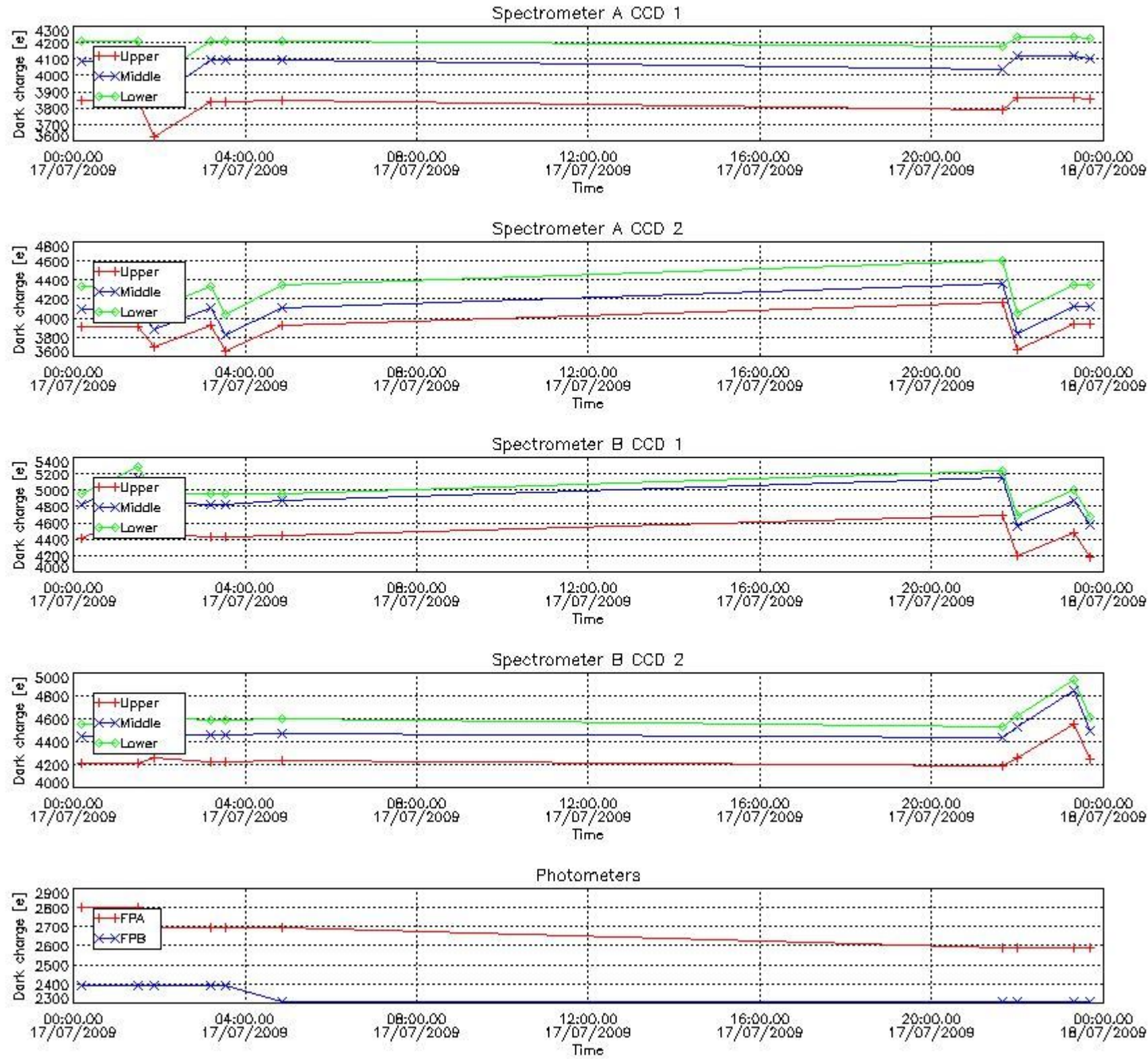
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090717_202938_000000532080_00458_38588_1687.N1	DC map used
GOM_TRA_1PNPDE20090717_204903_000000412080_00458_38588_1688.N1	DC map used
GOM_TRA_1PNPDE20090717_205912_000000402080_00458_38588_1689.N1	DC map used

GOM_TRA_1PNPDE20090717_210123_000000502080_00458_38588_1690.N1	DC map used
GOM_TRA_1PNPDE20090717_210621_000000442080_00458_38588_1691.N1	DC map used
GOM_TRA_1PNPDE20090717_211344_000000742080_00458_38588_1692.N1	DC map used
GOM_TRA_1PNPDE20090717_211541_000000462080_00458_38588_1693.N1	DC map used
GOM_TRA_1PNPDE20090717_212023_000000422080_00458_38588_1694.N1	DC map used
GOM_TRA_1PNPDE20090717_212146_000000612080_00458_38588_1695.N1	DC map used
GOM_TRA_1PNPDE20090717_212445_000000462080_00458_38588_1696.N1	DC map used
GOM_TRA_1PNPDE20090717_212742_000000462080_00458_38588_1697.N1	DC map used
GOM_TRA_1PNPDE20090717_213020_000000452080_00458_38588_1698.N1	DC map used
GOM_TRA_1PNPDE20090717_213831_000000612080_00458_38588_1699.N1	DC map used

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



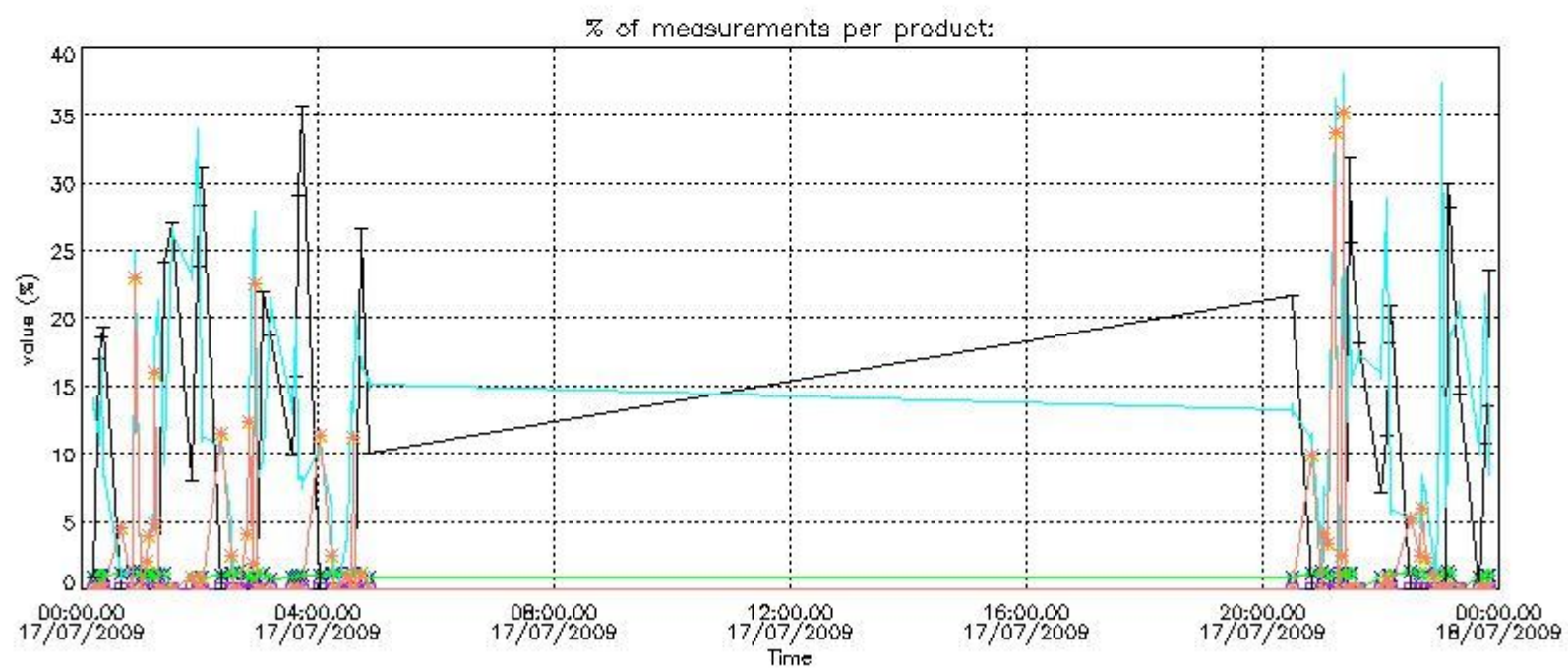
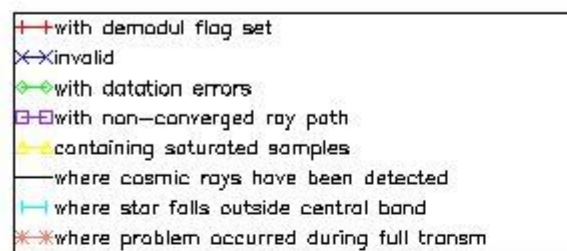
5. Demodulation flag and quality information monitoring

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.

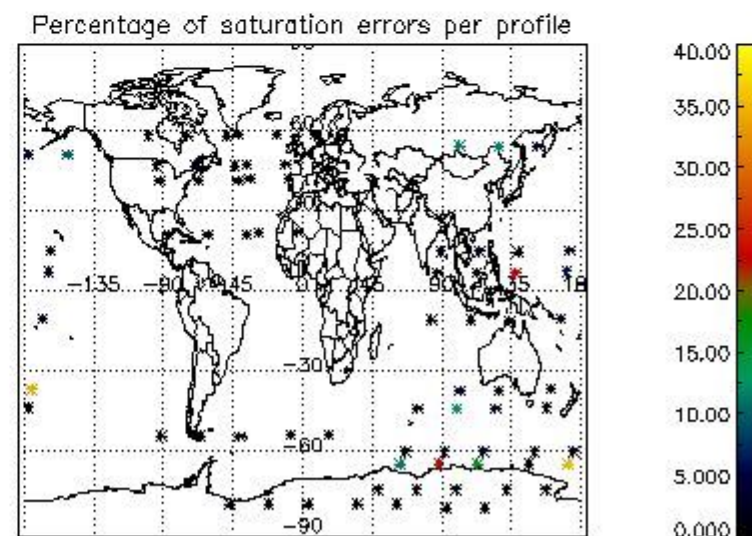
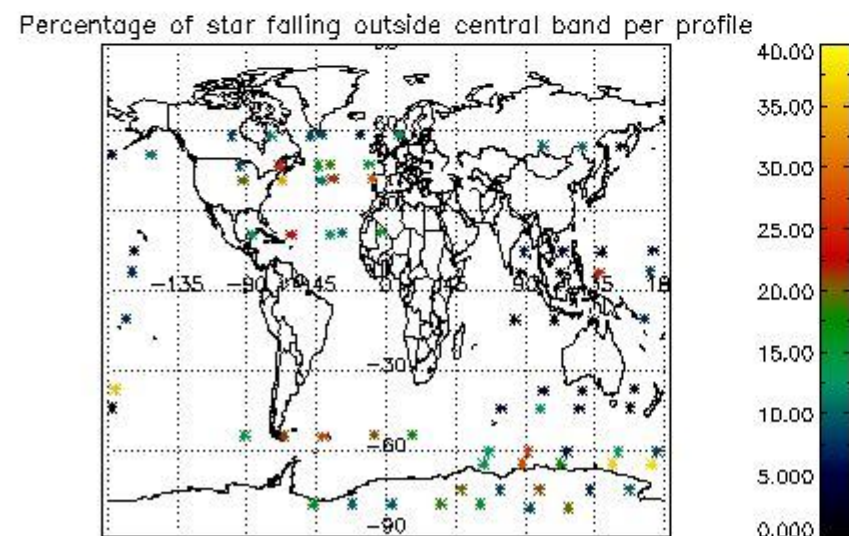
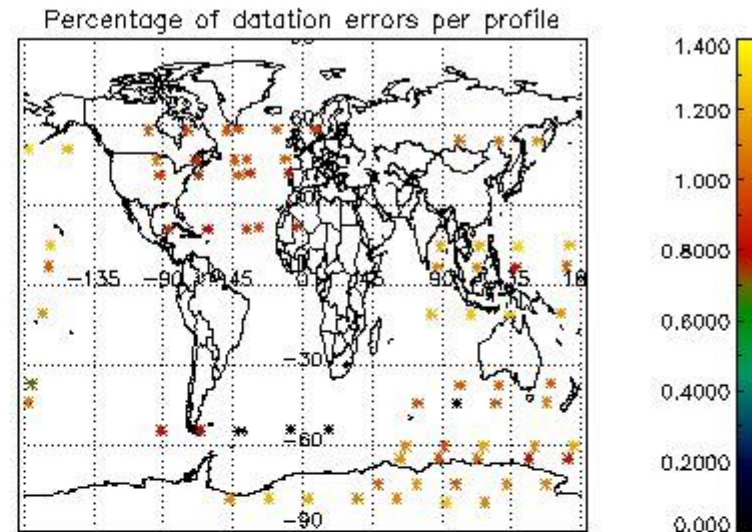
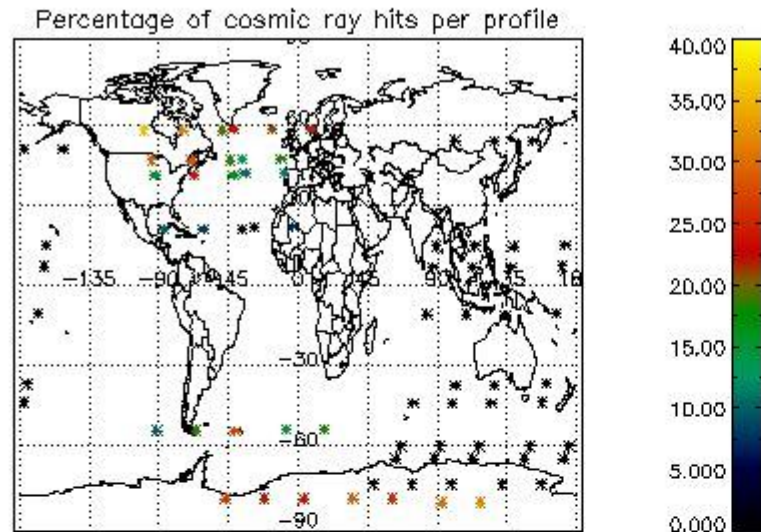
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.6753 %
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)



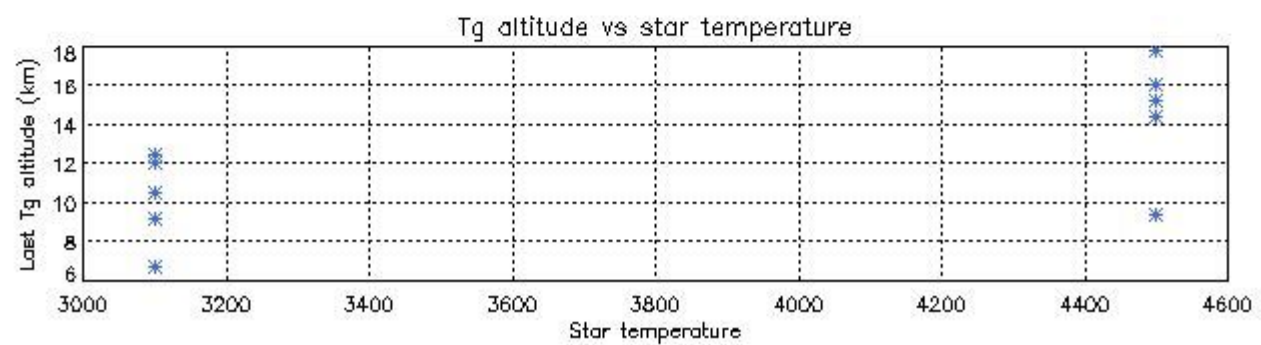
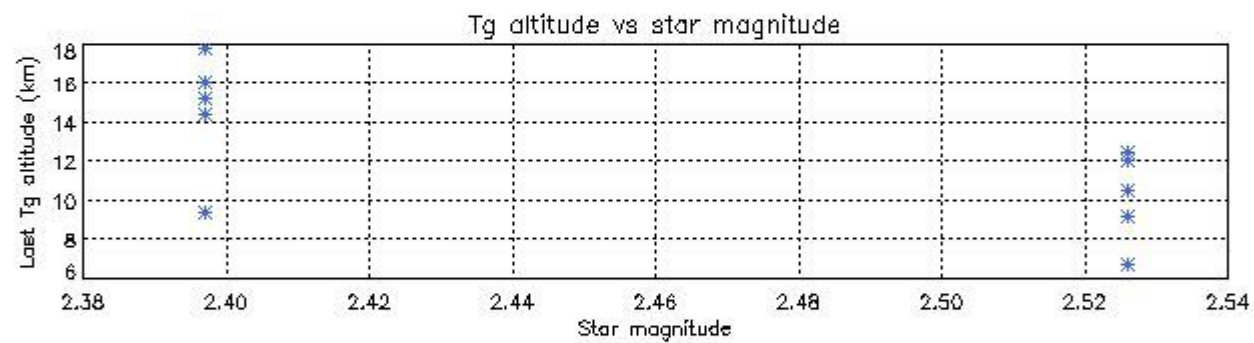
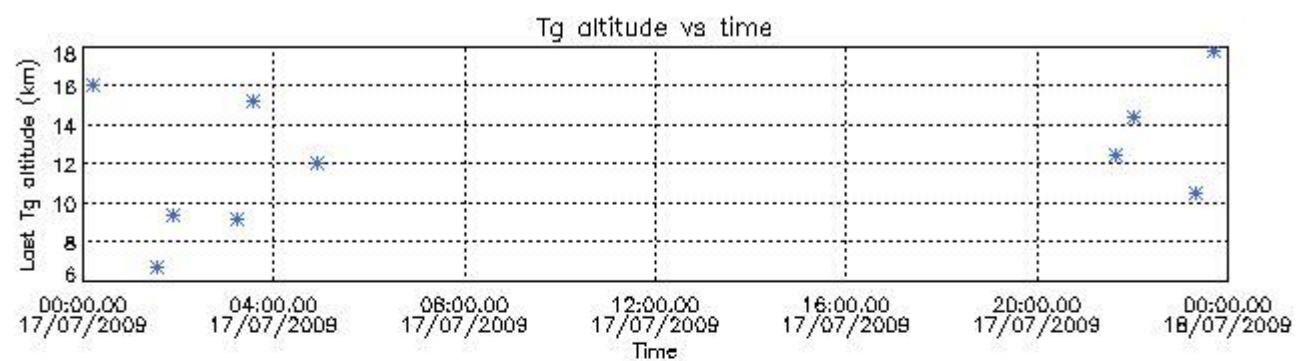
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.385	19.278	18.004
St. deviation:	3.4966	6.6713	2.9778
Maximum:	17.831	31.106	21.562
Minimum:	6.7377	3.2336	15.152
Number of data:	10.000	44.000	5.0000

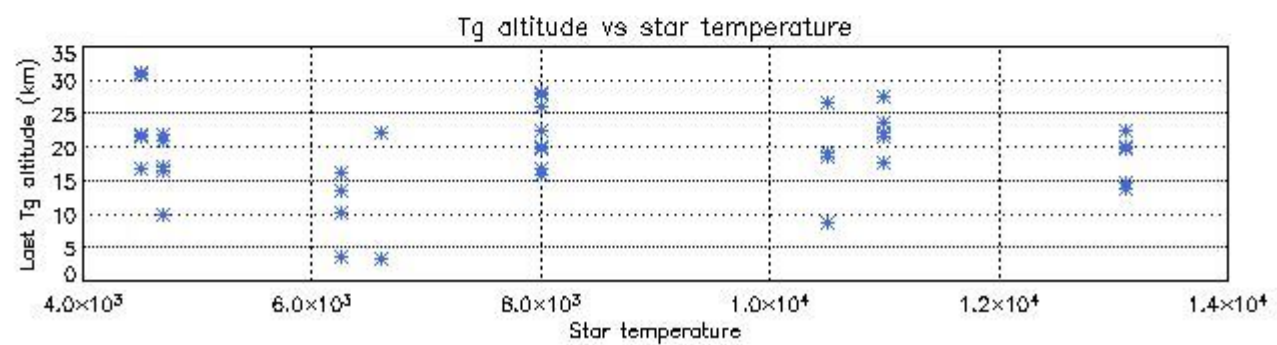
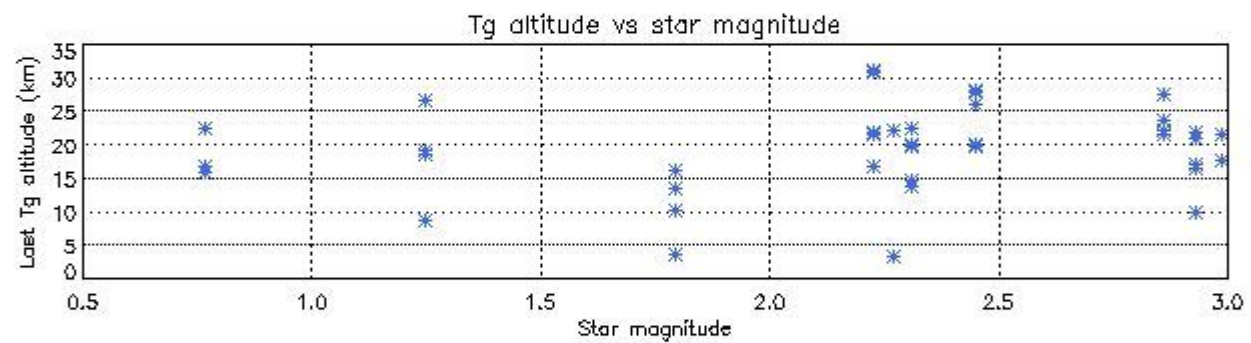
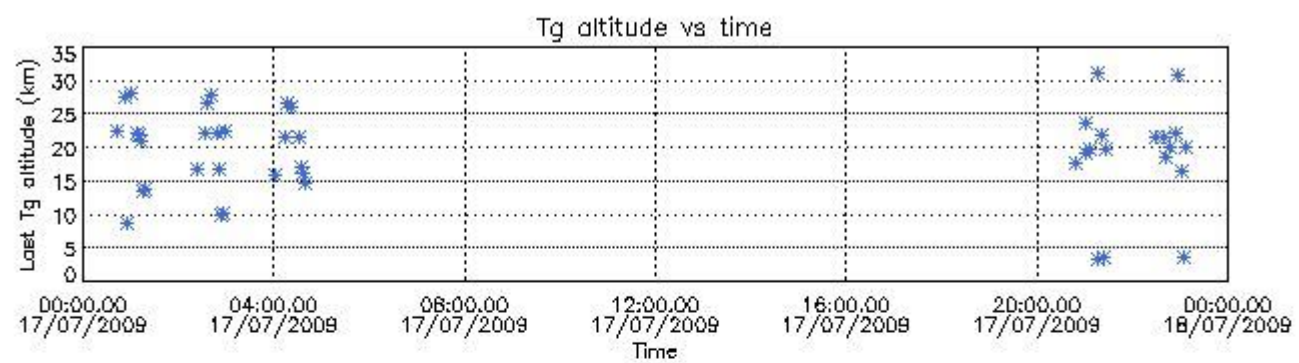
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



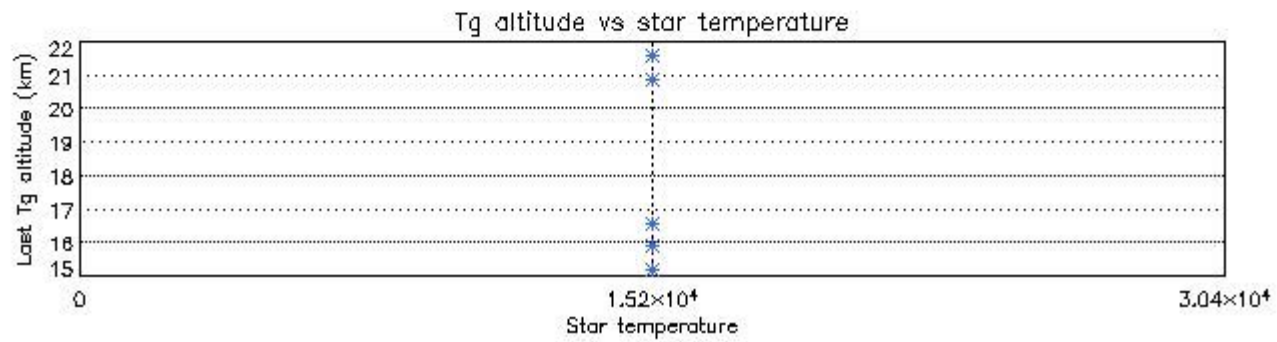
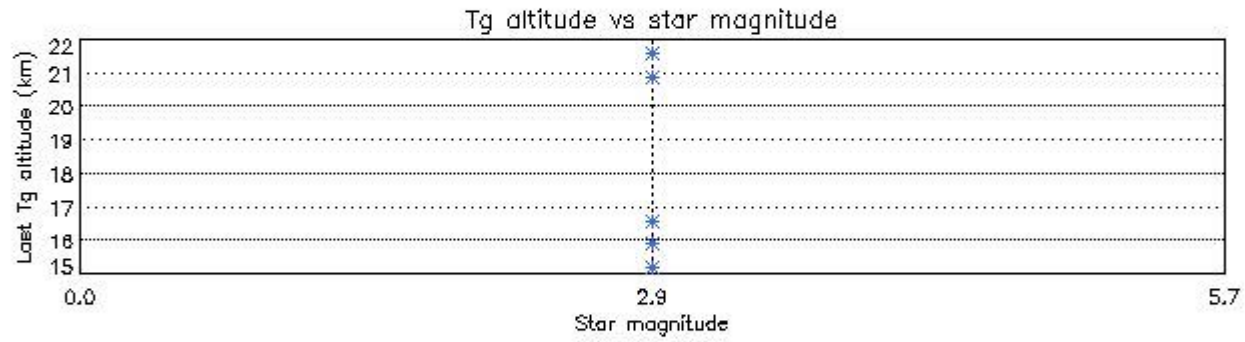
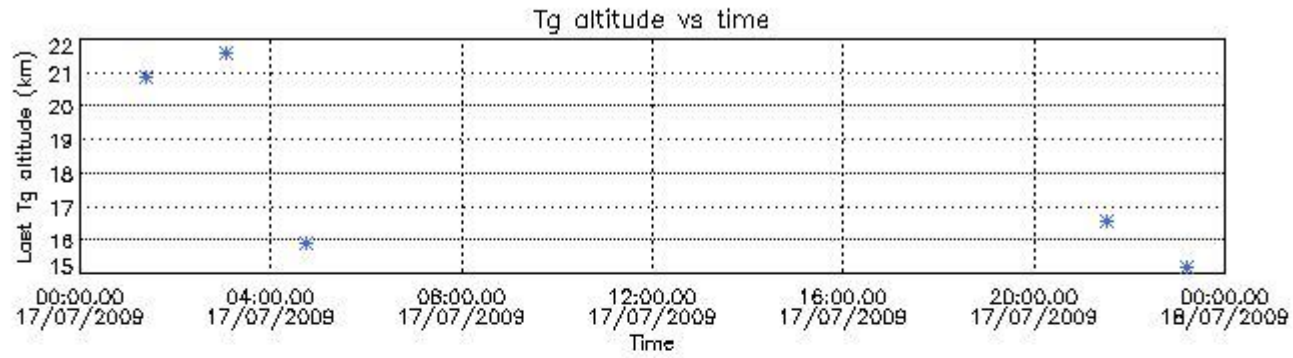
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

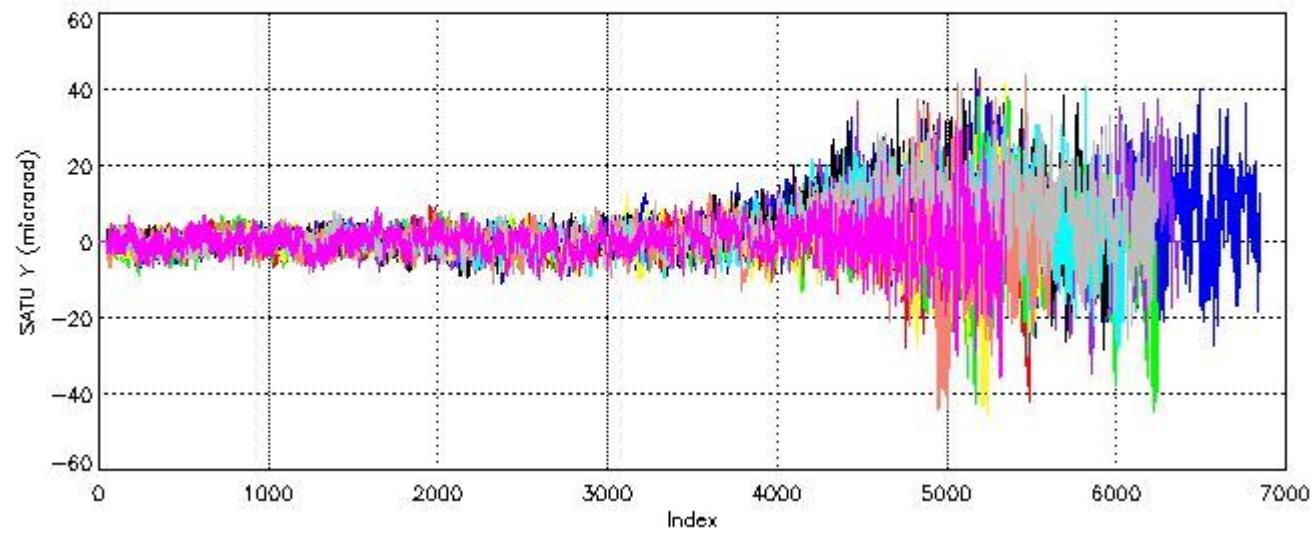
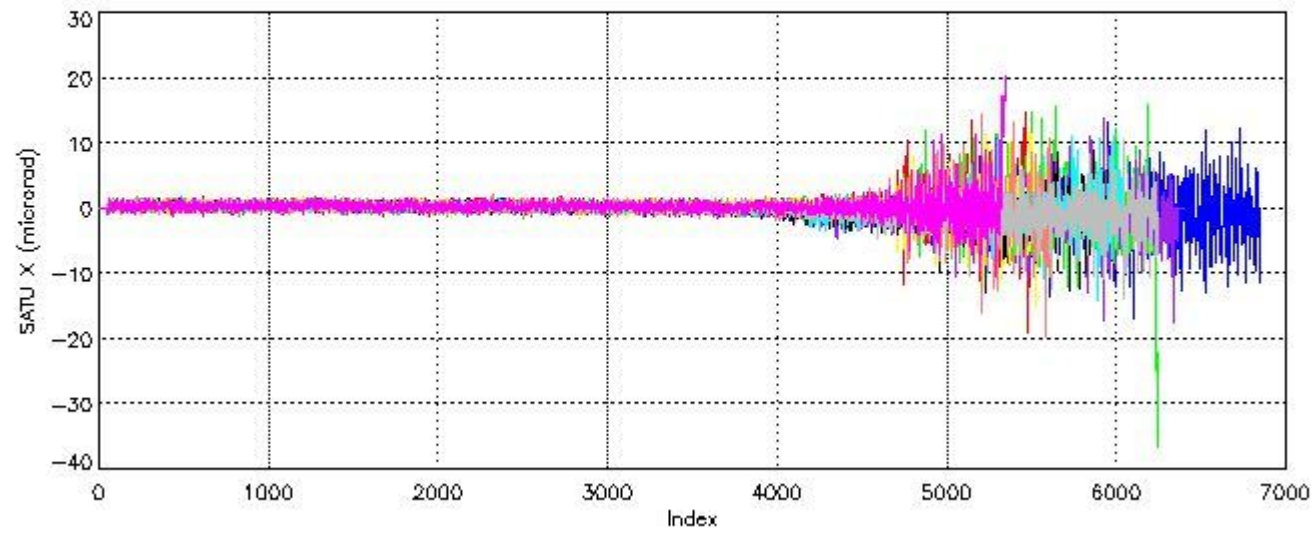


7. Star Acquisition and Tracking Unit (SATU)

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:	0.28205	-0.22794	0.23695	-0.21036
St. deviation:	0.37671	2.1278	0.83437	3.2858
Maximum:	1.8000	7.0000	7.3000	13.900
Minimum:	-1.2000	-8.9000	-6.6000	-13.400

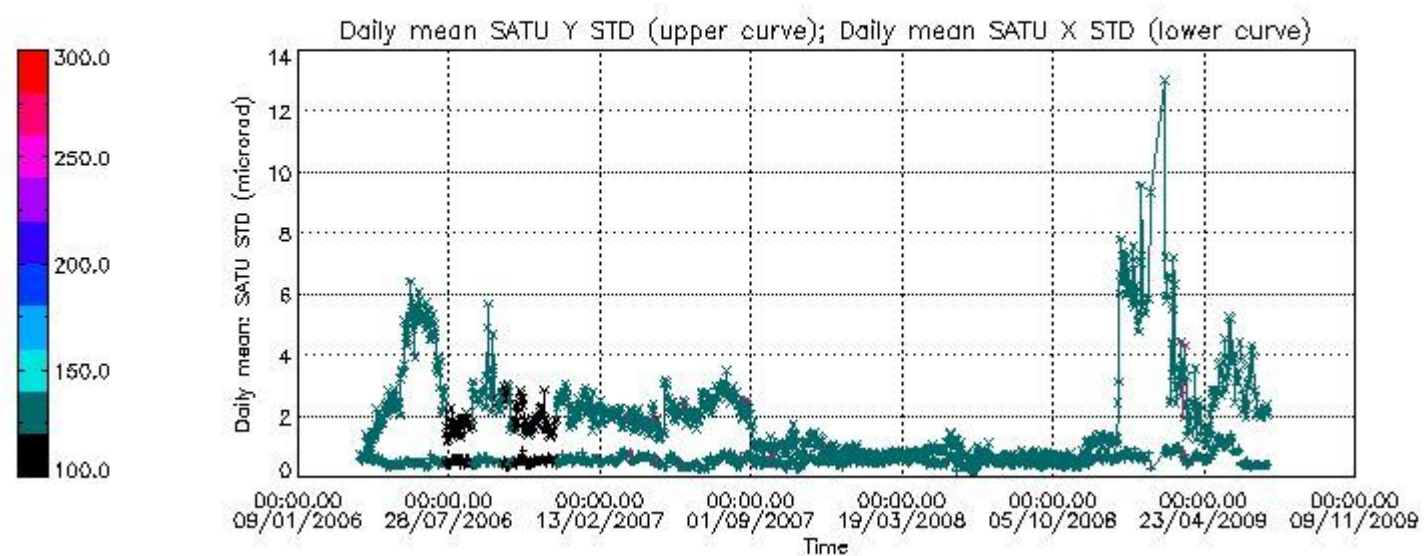
Number of data:	12600.	12600.	46450.	46450.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

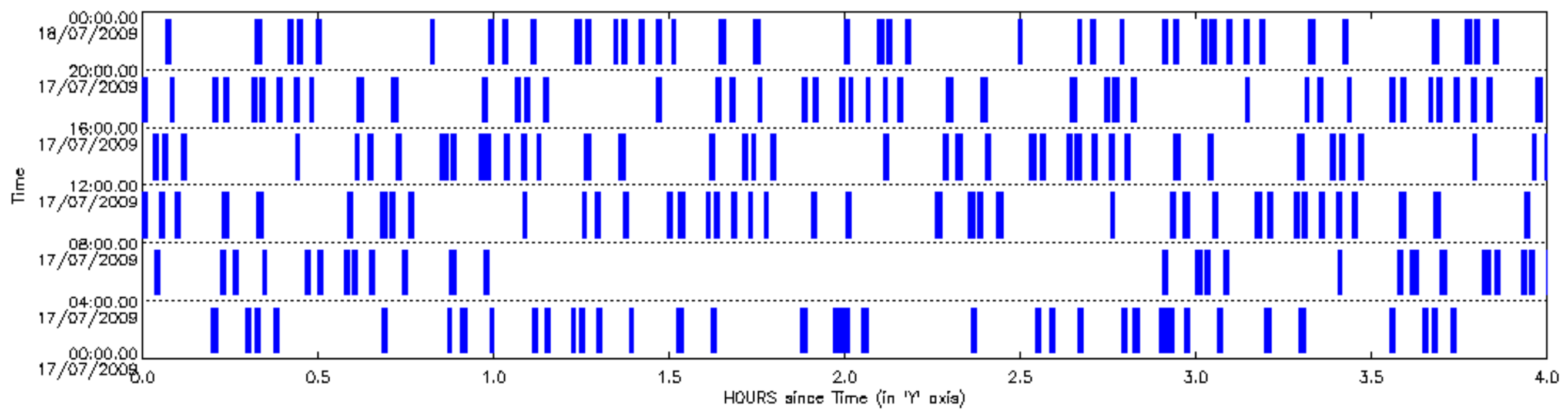
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

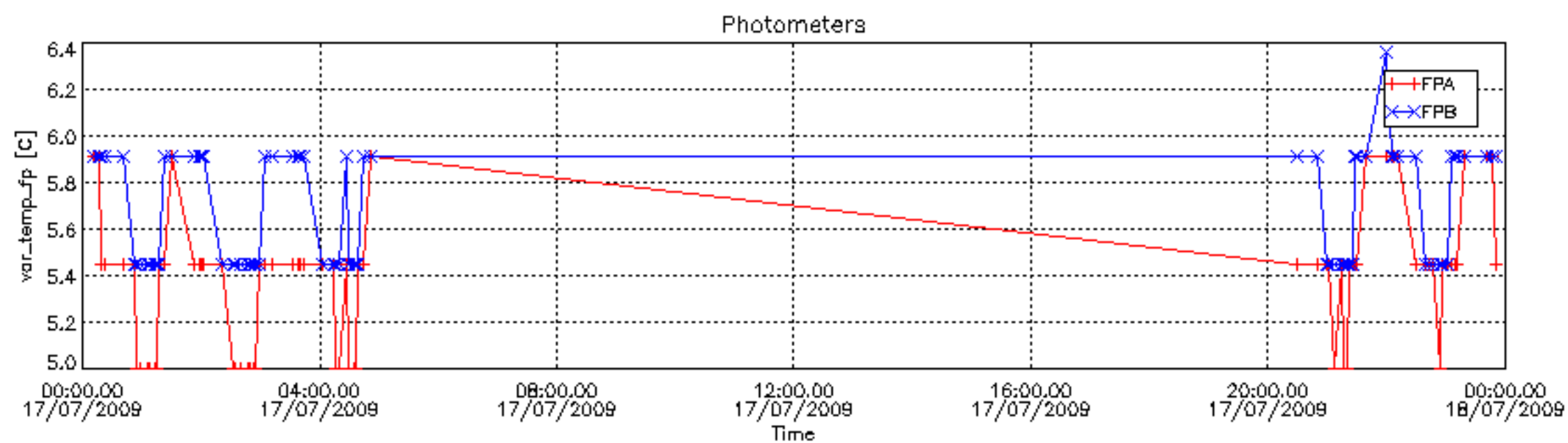
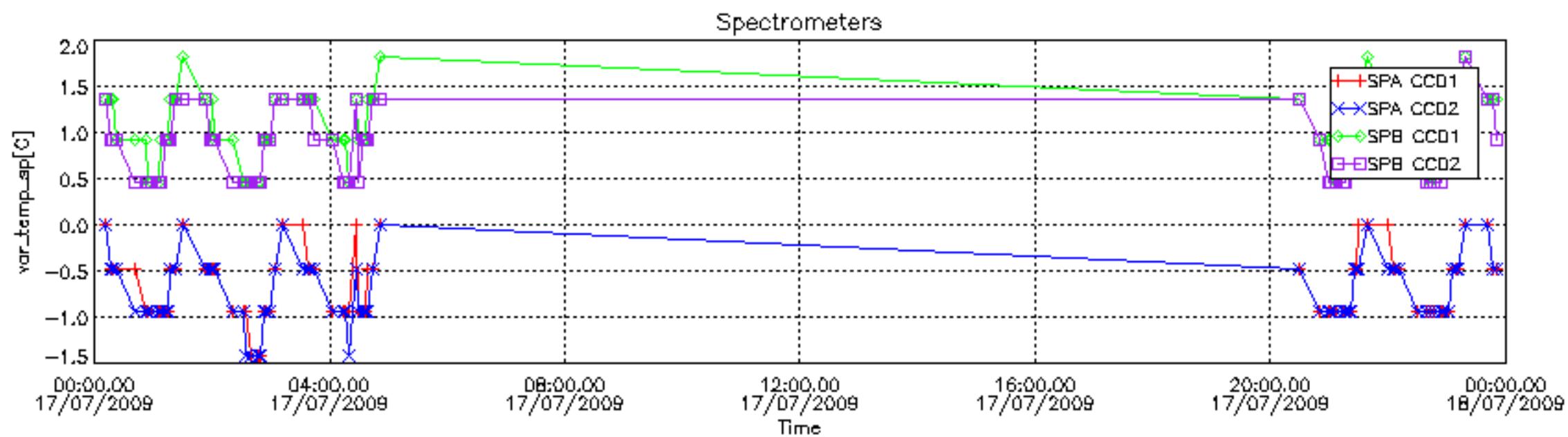


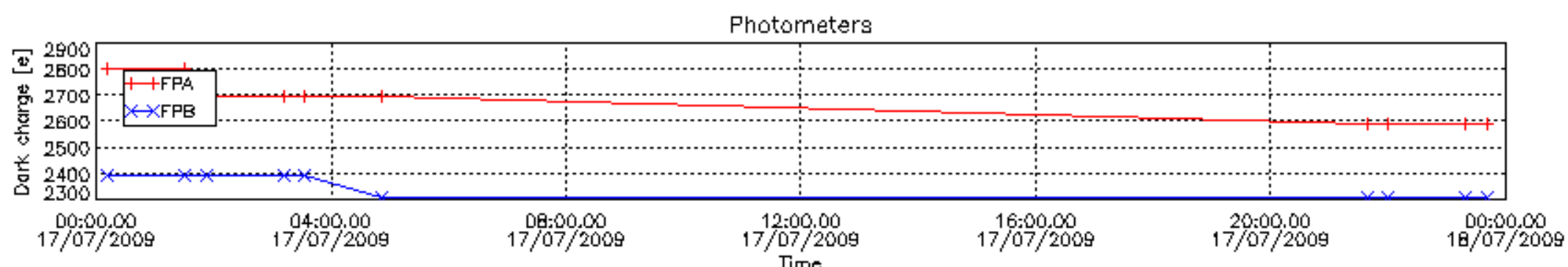
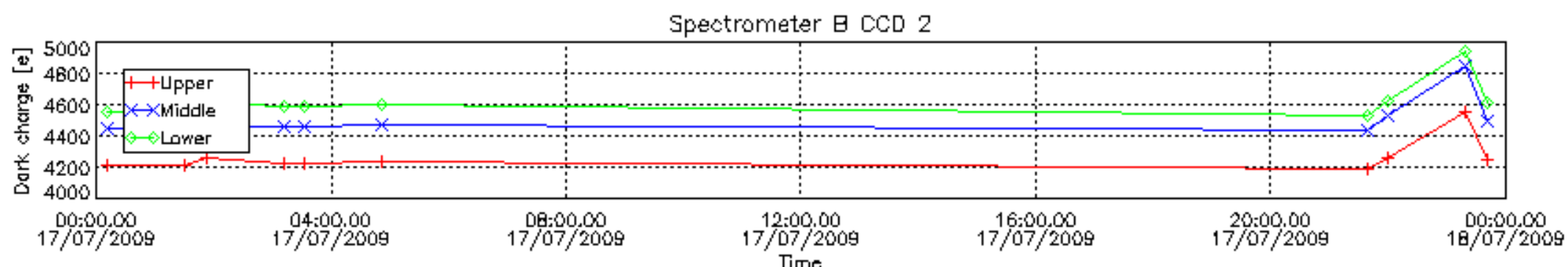
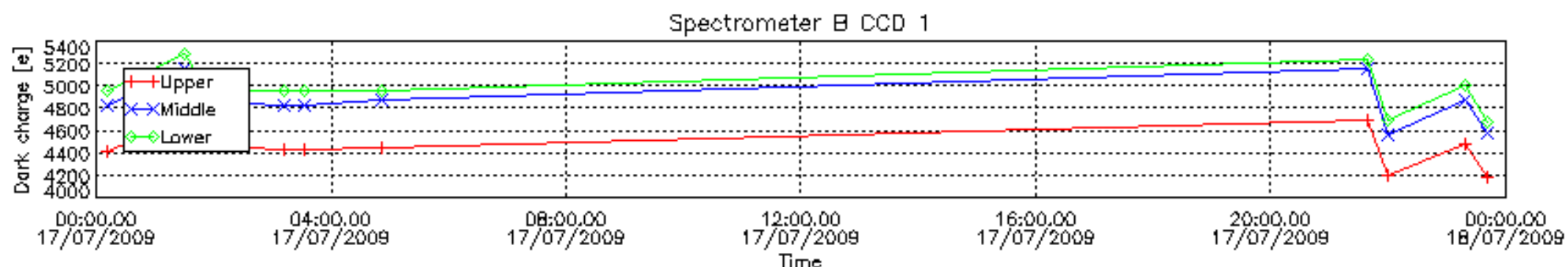
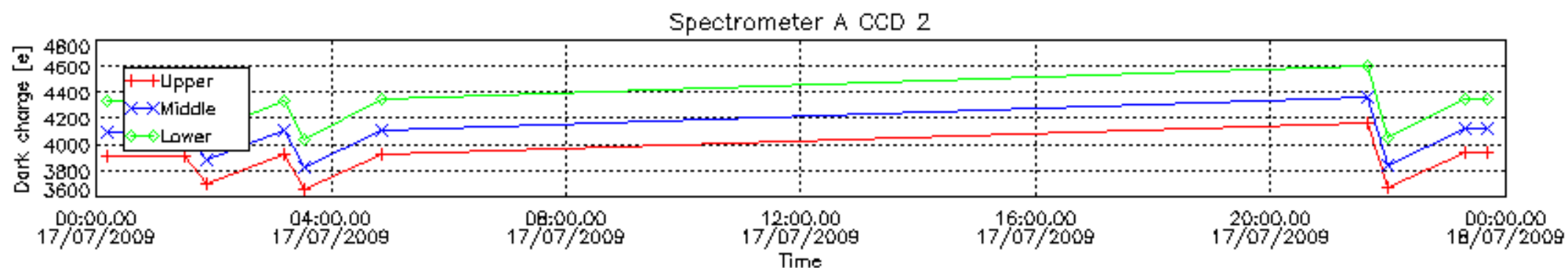
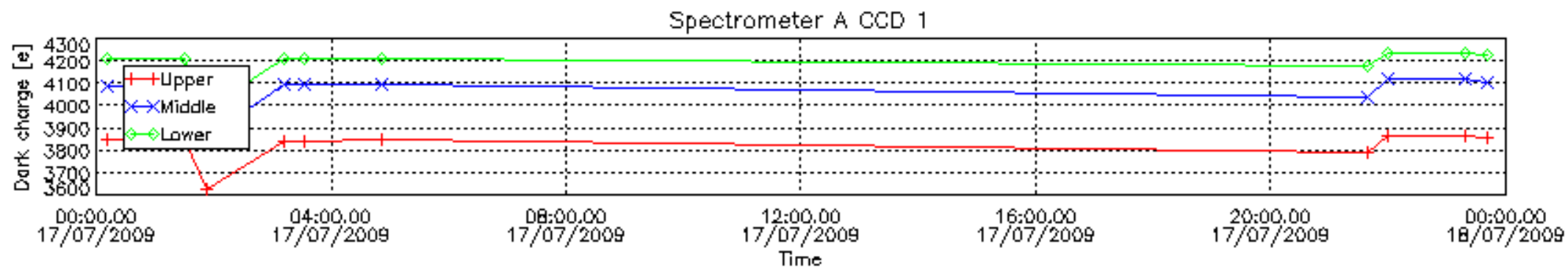
8. Auxiliary Data Files used for the production reported in section 2.4

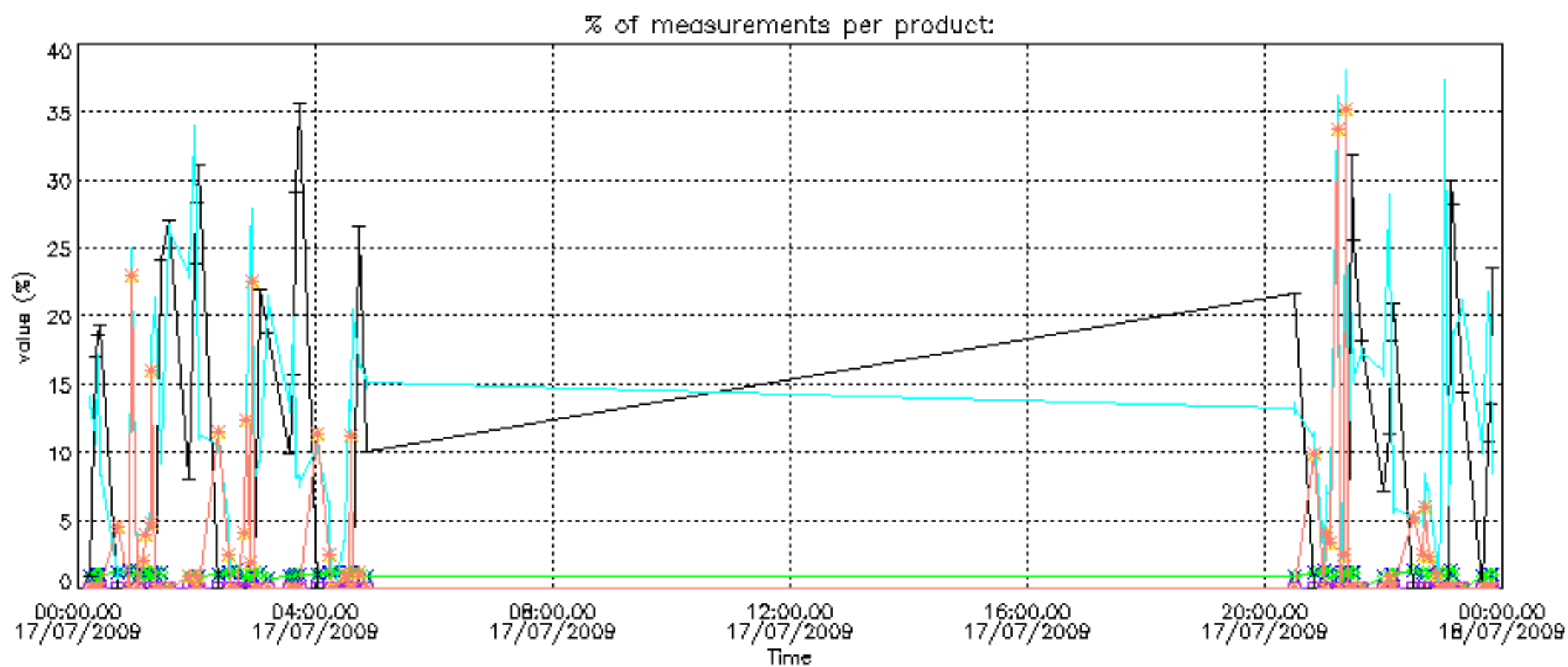
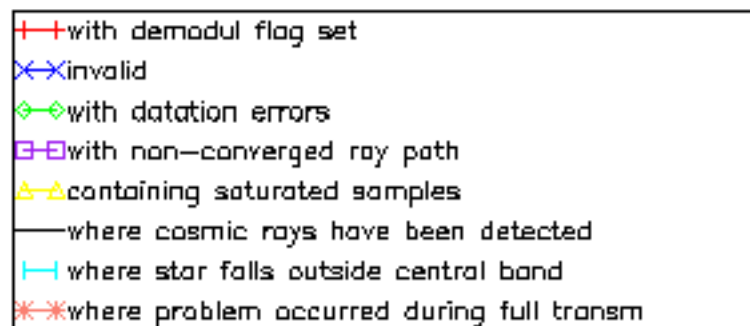
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-JUL-2009 00:11:48
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090714_102335_20090712_000000_20100101_000000	1	17-JUL-2009 00:11:48
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-JUL-2009 00:11:48
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-JUL-2009 00:11:48
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-JUL-2009 00:11:48
ECMWF_FILE	AUX_ECF_AXNECM20090716_064113_20090716_210000_20090717_090000	1	17-JUL-2009 00:11:48
ECMWF_FILE	AUX_ECF_AXNECM20090716_183943_20090717_030000_20090717_150000	39	17-JUL-2009 04:27:52
ECMWF_FILE	AUX_ECF_AXNECM20090717_064112_20090717_150000_20090718_030000	46	17-JUL-2009 20:29:38
ECMWF_FILE	AUX_ECF_AXNECM20090717_064112_20090717_210000_20090718_090000	59	17-JUL-2009 21:59:51
OPTIONAL_ECMWF_FILE	MISSING	1	17-JUL-2009 00:11:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090716_220618_000060572080_00444_38574_8367.N1	1	17-JUL-2009 00:11:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090717_012812_000044632080_00446_38576_8369.N1	16	17-JUL-2009 01:52:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090717_024754_000054192080_00447_38577_8370.N1	39	17-JUL-2009 04:27:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090717_025113_000041442080_00458_38588_8372.N1	46	17-JUL-2009 20:29:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090717_213936_000057382080_00458_38588_8373.N1	75	17-JUL-2009 23:40:27

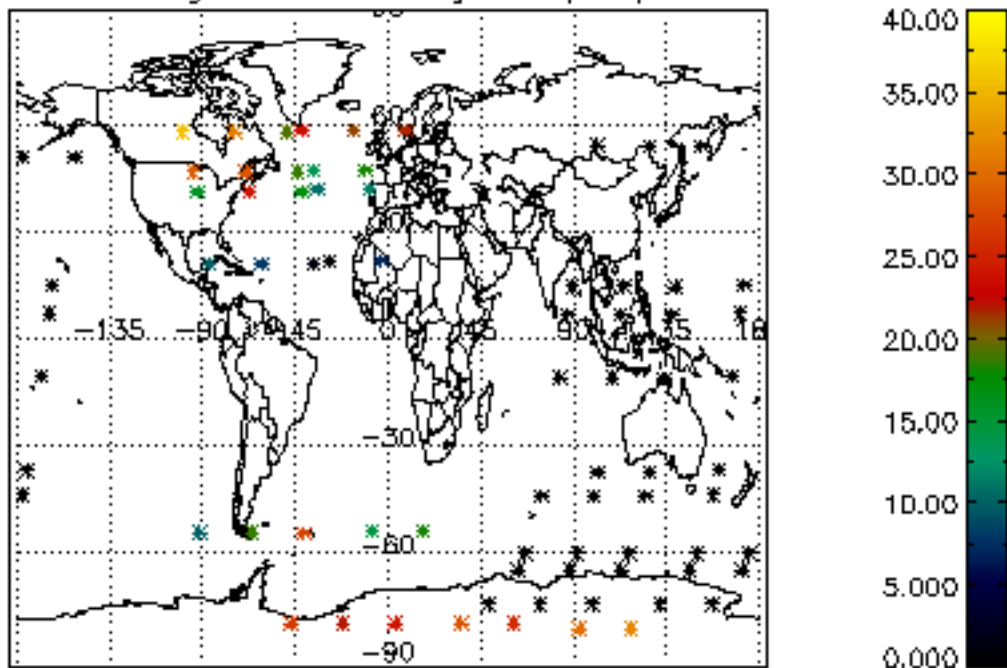




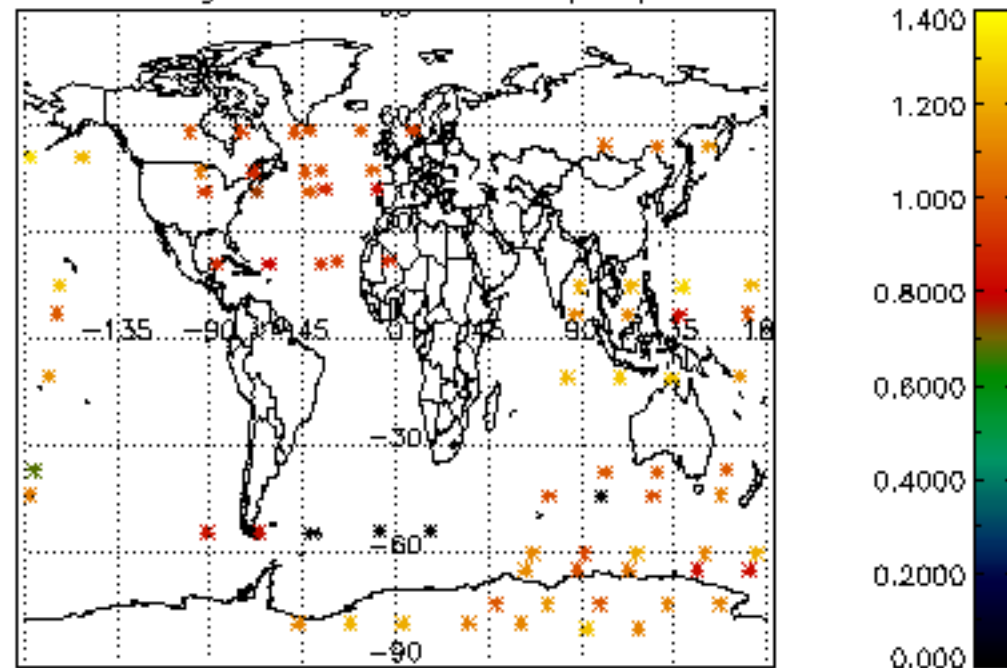




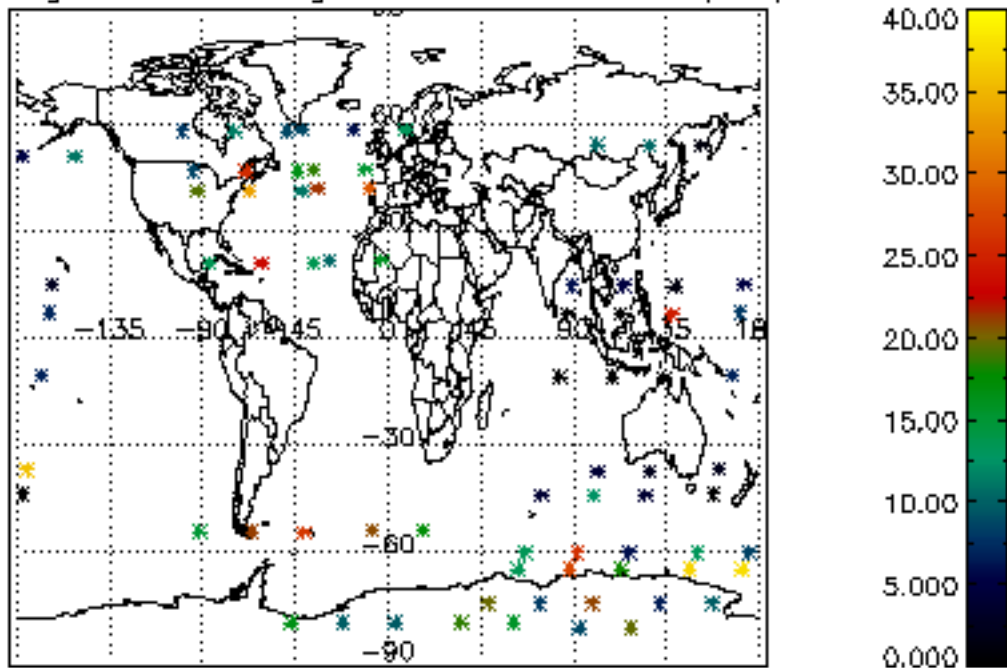
Percentage of cosmic ray hits per profile



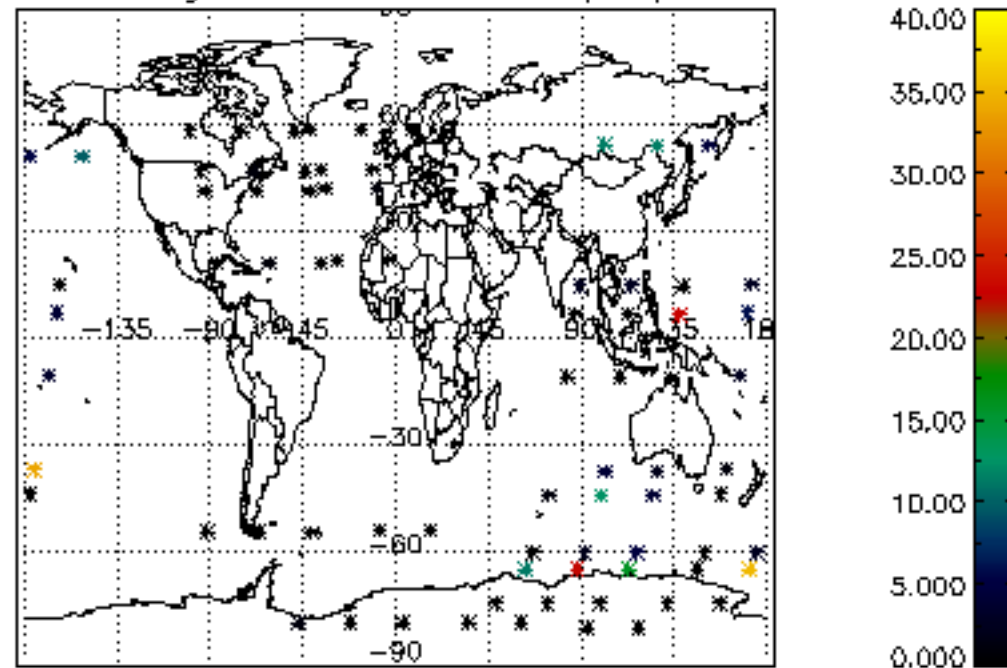
Percentage of datation errors per profile



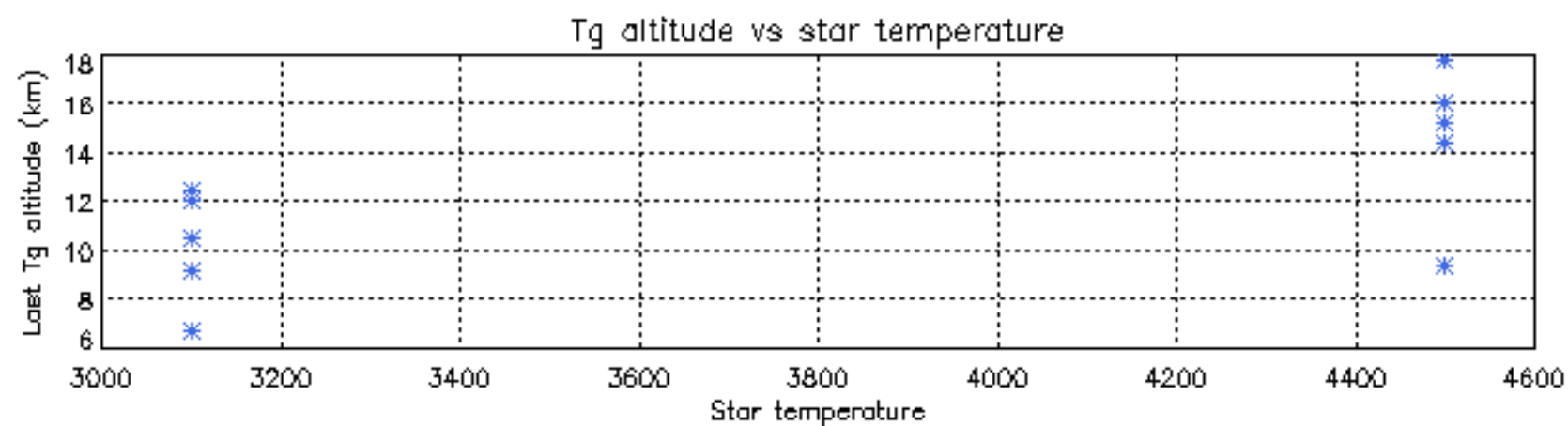
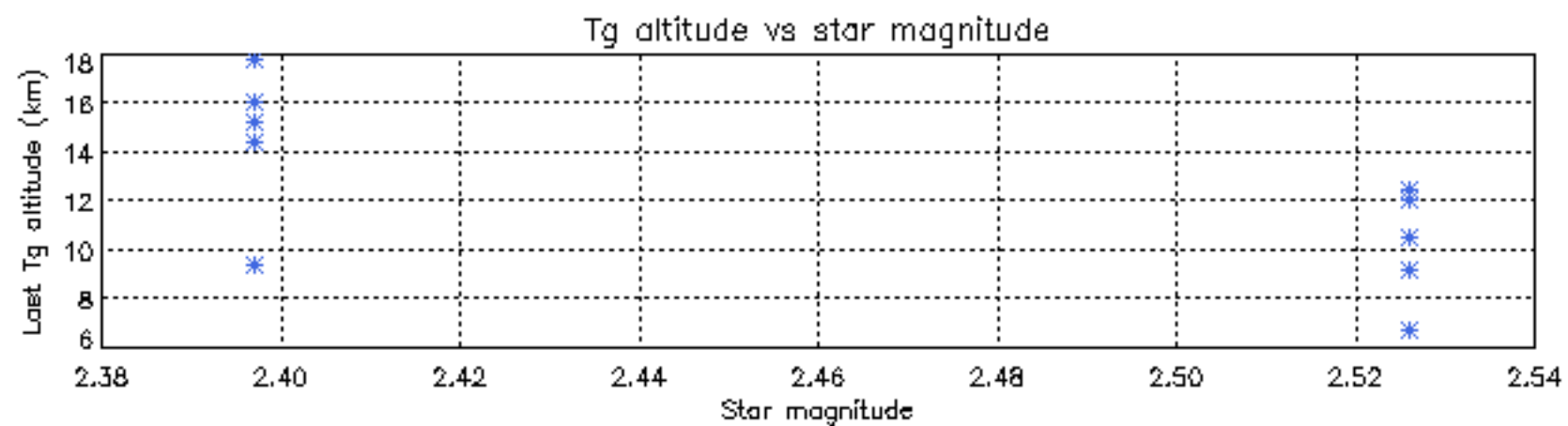
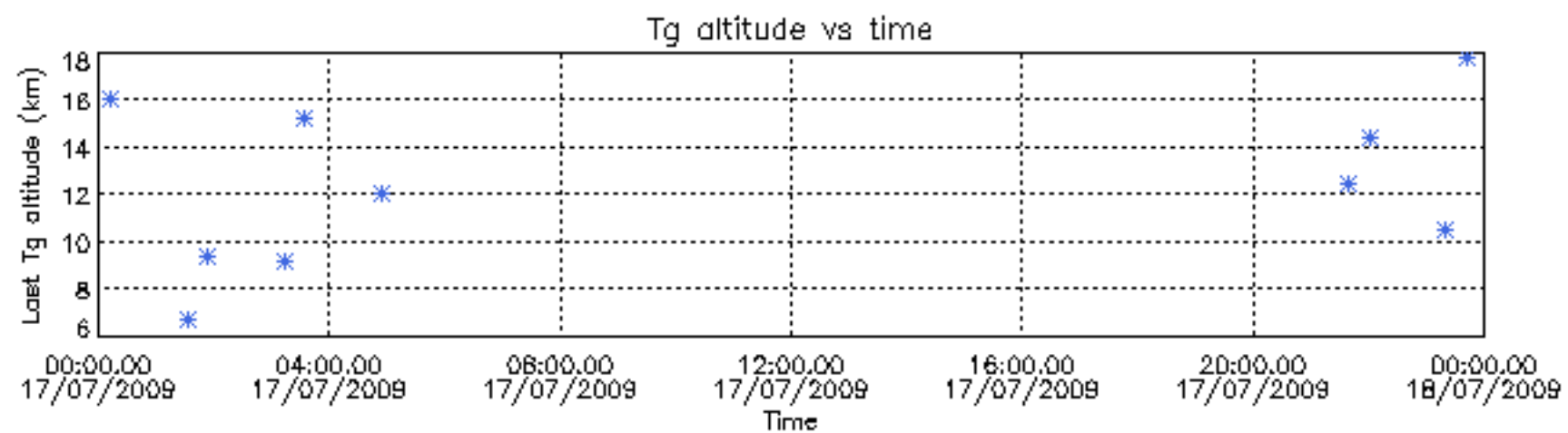
Percentage of star falling outside central band per profile



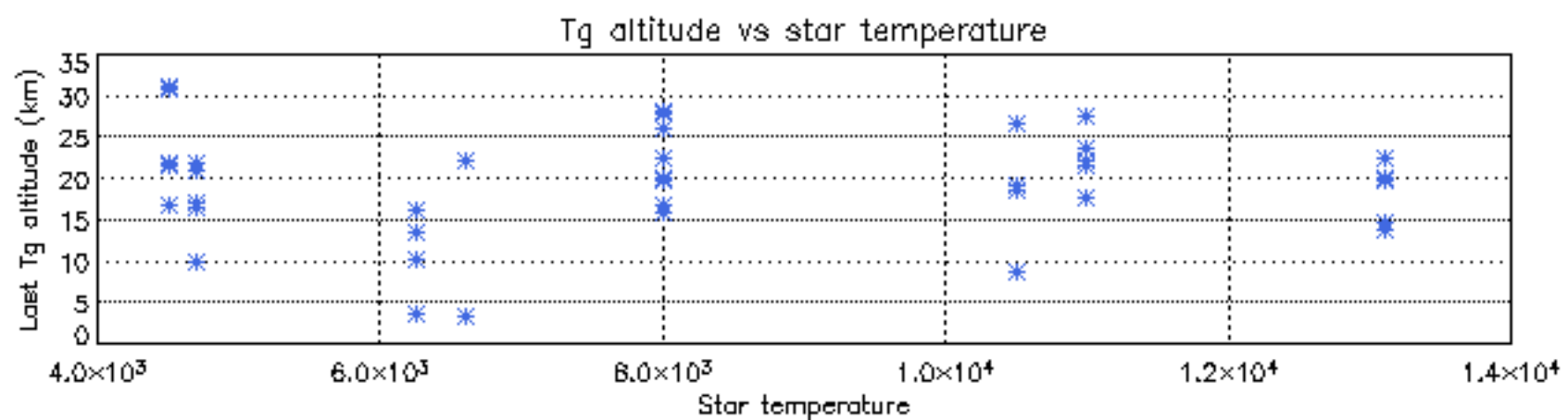
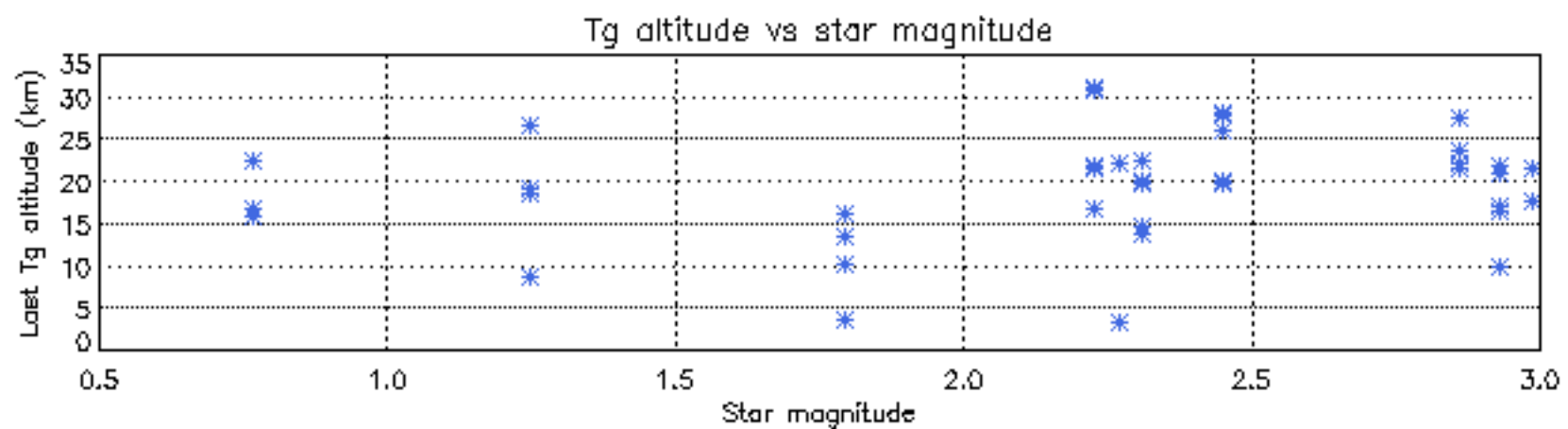
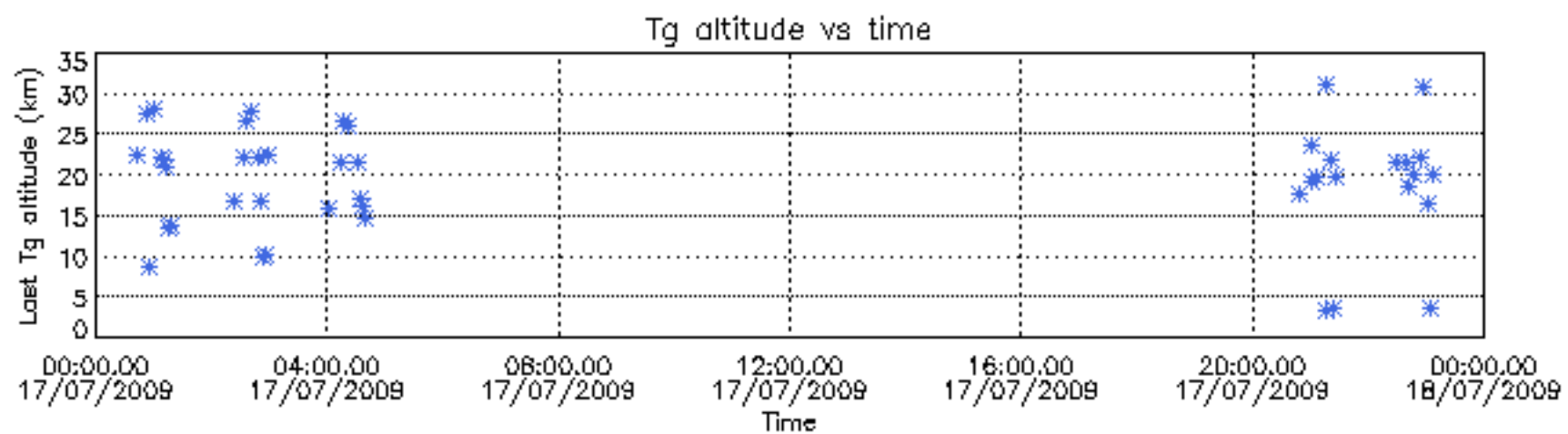
Percentage of saturation errors per profile



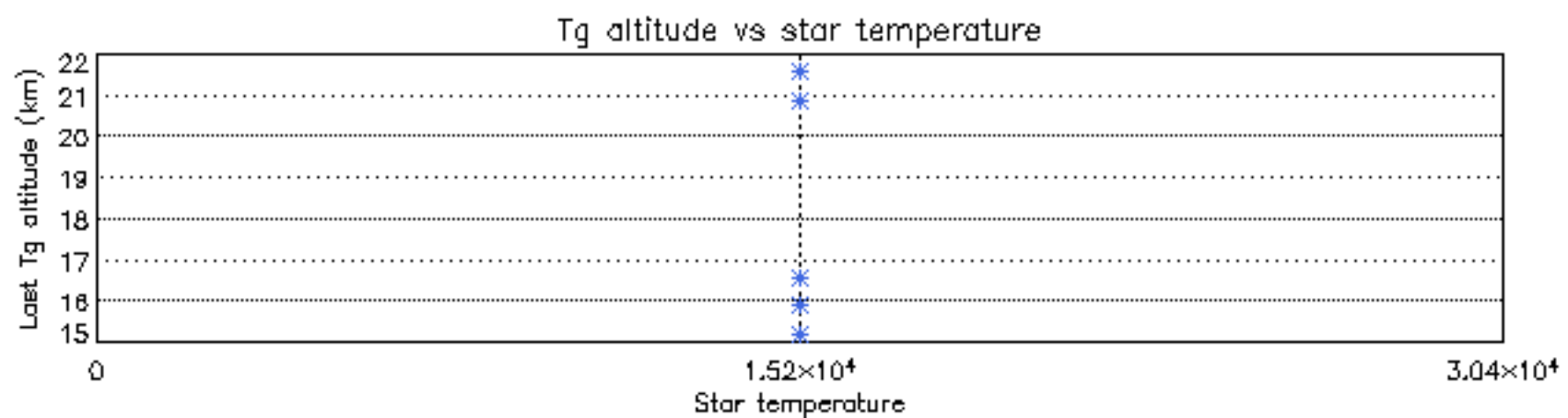
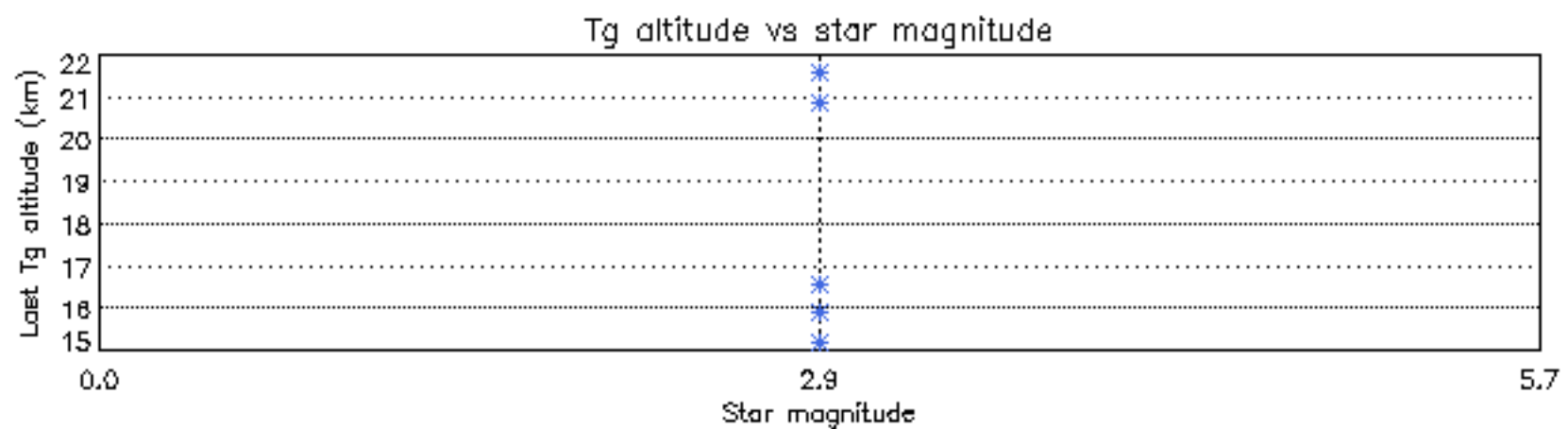
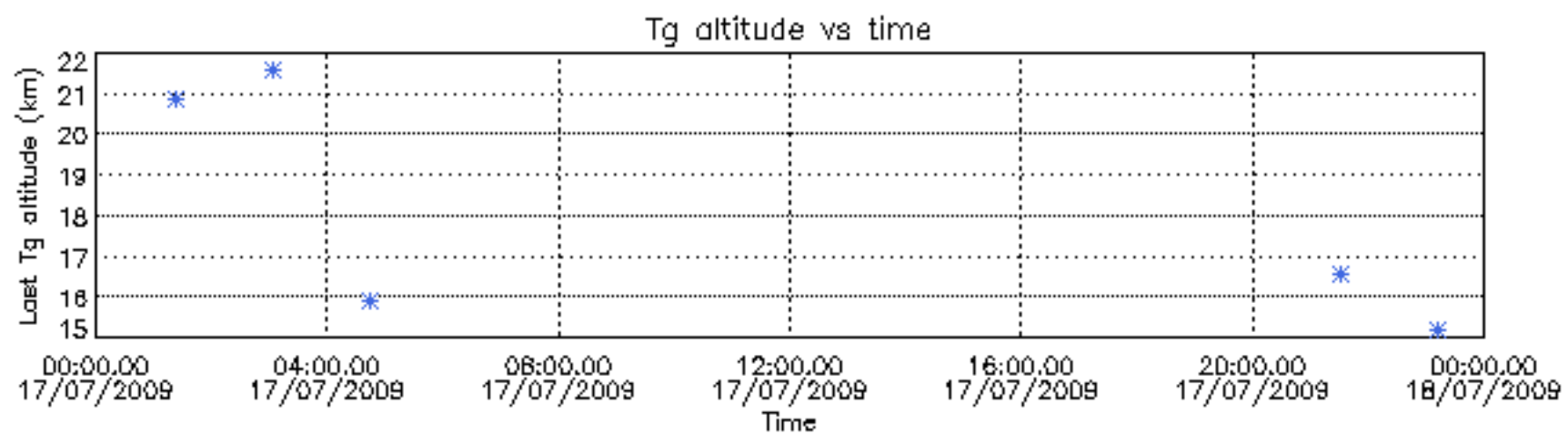
Tangent altitude at which the star is lost

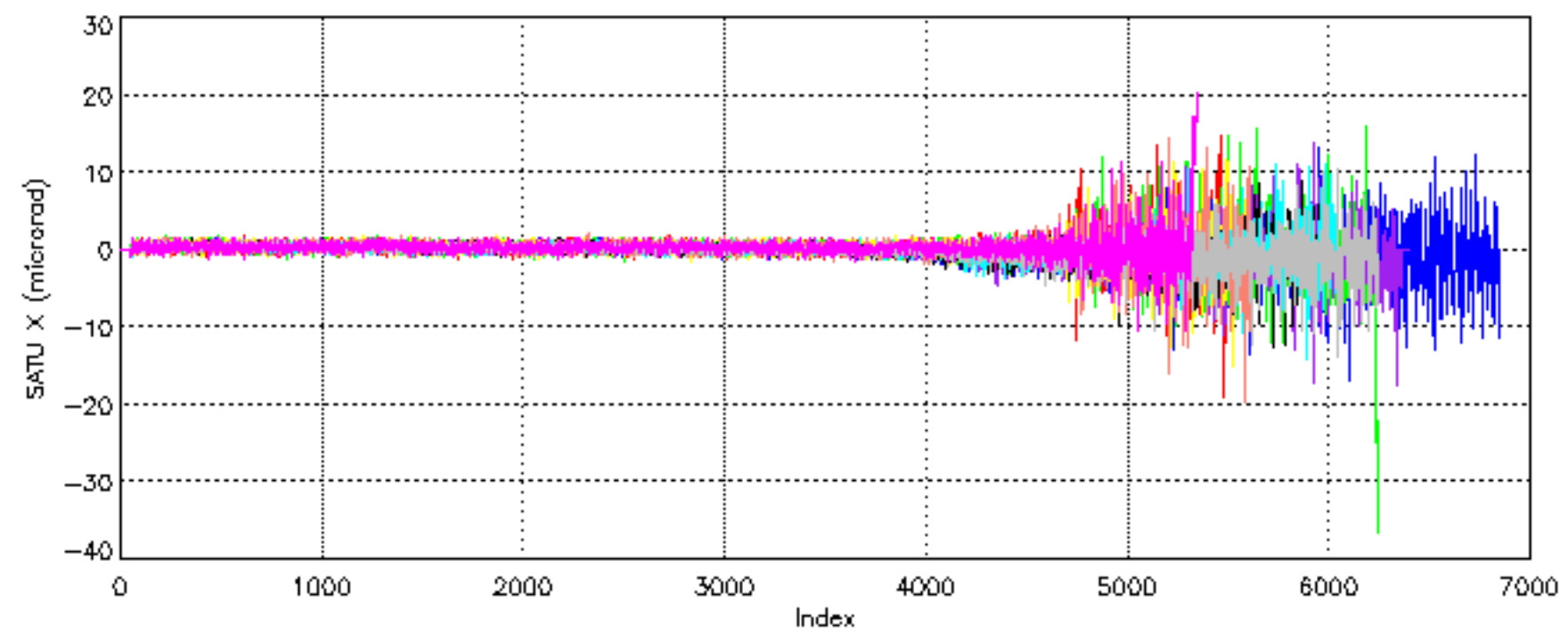


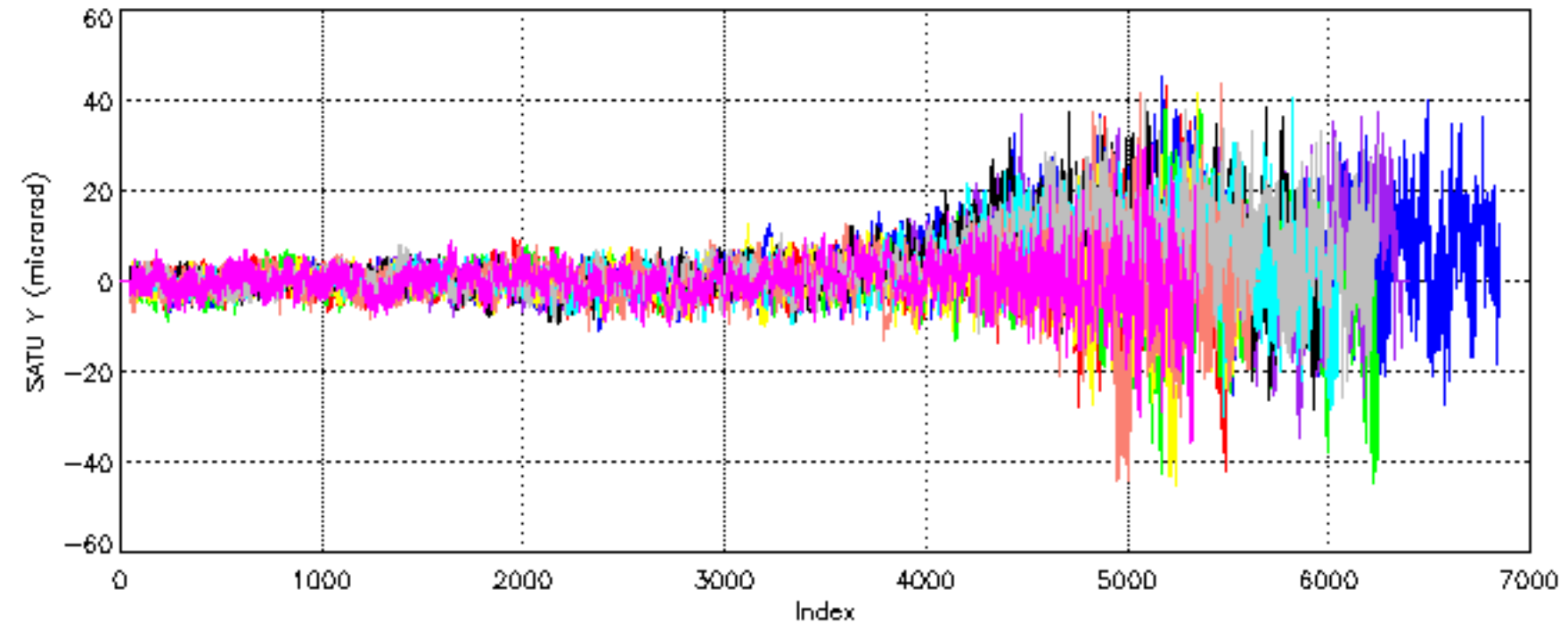
Tangent altitude at which the star is lost

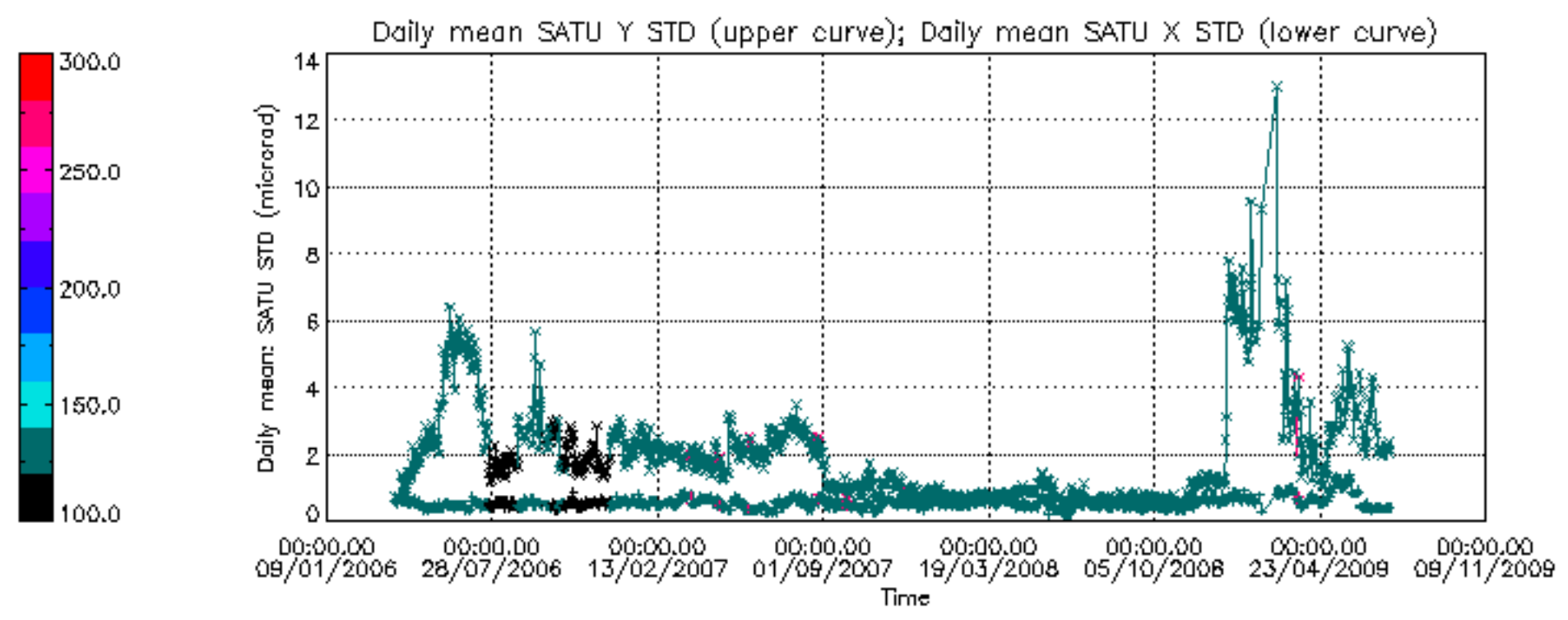


Tangent altitude at which the star is lost










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 3; 501.4; 02-JUL-2009 01:26:10; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38362
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 6; 1483.7; 02-JUL-2009 01:42:33; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38362
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 5; 777.8; 01-JUL-2009 02:02:24; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38348
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 2; 2225.6; 01-JUL-2009 20:53:07; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38359
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 4; 2912.3; 01-JUL-2009 21:04:34; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38359
 5; 3335.3; 01-JUL-2009 21:11:37; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38359
 6; 3778.7; 01-JUL-2009 21:19:00; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38359
 7; 3874.0; 01-JUL-2009 21:20:35; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;38359
 8; 4265.9; 01-JUL-2009 21:27:07; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38359
 9; 4425.8; 01-JUL-2009 21:29:47; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38359
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 4; 615.0; 01-JUL-2009 22:06:52; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38360
 5; 790.6; 01-JUL-2009 22:09:48; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38360
 6; 1483.4; 01-JUL-2009 22:21:21; Bright; 41.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 83; 0;38360
 7; 2225.1; 01-JUL-2009 22:33:42; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;38360
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 9; 2911.6; 01-JUL-2009 22:45:09; Bright; 48.0; 144; 18Del Cyg ; 2.86; 11000;occ; 96; 0;38360
 10; 3334.6; 01-JUL-2009 22:52:12; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38360
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 13; 4265.9; 01-JUL-2009 23:07:43; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38360
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 4; 616.0; 01-JUL-2009 23:47:29; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38361
 5; 791.5; 01-JUL-2009 23:50:25; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38361
 6; 1483.5; 02-JUL-2009 00:01:57; Bright; 40.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 80; 0;38361
 7; 2224.7; 02-JUL-2009 00:14:18; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38361
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 9; 2910.7; 02-JUL-2009 00:25:44; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38361
 10; 3334.3; 02-JUL-2009 00:32:47; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38361
 11; 3777.9; 02-JUL-2009 00:40:11; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;38361
 12; 3872.8; 02-JUL-2009 00:41:46; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38361
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 8; 491.1; 01-JUL-2009 06:59:25; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38351
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 5; 3782.9; 01-JUL-2009 07:54:17; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38351
 6; 3876.3; 01-JUL-2009 07:55:50; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38351
 7; 4266.5; 01-JUL-2009 08:02:20; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38351
 8; 4425.4; 01-JUL-2009 08:04:59; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38351
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 12; 6527.9; 01-JUL-2009 08:40:02; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38351
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 14; 6817.9; 01-JUL-2009 08:44:52; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38351
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 7; 617.7; 02-JUL-2009 03:08:42; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;38363

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9; 1484.2; 02-JUL-2009 03:23:09; Bright; 51.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 102; 0;38363
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3; 2218.5; 02-JUL-2009 20:21:23; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38373
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5; 805.1; 02-JUL-2009 21:38:25; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38374
6; 1486.1; 02-JUL-2009 21:49:46; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38374
7; 2217.8; 02-JUL-2009 22:01:58; Bright; 69.0; 168; 17Zet Aql ; 2.99; 11000;occ; 138; 0;38374
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 6; 4298.0; 08-JUL-2009 17:46:20; Bright; 34.5; 79; 26Bet Per ; 2.31; 13100;occ; 69; 0;38457
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8; 3268.2; 09-JUL-2009 01:52:09; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38462
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5; 924.7; 11-JUL-2009 21:57:39; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38503
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5; 3826.4; 11-JUL-2009 07:40:38; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;38494
6; 4049.7; 11-JUL-2009 07:44:21; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;38494
7; 4251.3; 11-JUL-2009 07:47:42; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38494
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 9; 672.1; 15-JUL-2009 04:41:35; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38550
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4; -1914.7; 15-JUL-2009 07:19:40; Bright; 40.0; 35; 33Alp Per ; 1.79; 6250;occ; 80; 0;38551
5; -1738.7; 15-JUL-2009 07:22:36; Bright; 45.0; 79; 26Bet Per ; 2.31; 13100;occ; 90; 0;38551
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4; 3213.1; 15-JUL-2009 08:45:08; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38552
5; 3660.4; 15-JUL-2009 08:52:35; Bright; 56.0; 74; 11Bet Cas ; 2.27; 6600;occ; 112; 0;38552
6; 3802.0; 15-JUL-2009 08:54:57; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38552
7; 4041.0; 15-JUL-2009 08:58:56; Bright; 40.5; 160; 23Gam Per ; 2.93; 4700;occ; 81; 0;38552
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3; 2923.7; 15-JUL-2009 10:20:55; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38553
4; 3212.6; 15-JUL-2009 10:25:44; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38553
5; 3659.8; 15-JUL-2009 10:33:11; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38553
6; 3801.5; 15-JUL-2009 10:35:33; Bright; 47.0; 110; 37Del Cas ; 2.68; 8900;occ; 94; 0;38553
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9; 4117.5; 17-JUL-2009 21:21:46; Bright; 61.0; 35; 33Alp Per ; 1.79; 6250;occ; 122; 0;38588
10; 4295.9; 17-JUL-2009 21:24:45; Bright; 45.5; 79; 26Bet Per ; 2.31; 13100;occ; 91; 0;38588
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9; 4296.3; 17-JUL-2009 07:59:57; Bright; 50.0; 79; 26Bet Per ; 2.31; 13100;occ; 100; 0;38580
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 16; 6831.1; 17-JUL-2009 17:05:12; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38585
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 4; 3193.6; 17-JUL-2009 17:45:10; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38586
 5; 3636.7; 17-JUL-2009 17:52:33; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38586
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 4; 798.4; 18-JUL-2009 01:28:15; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;38591
 5; 991.7; 18-JUL-2009 01:31:28; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38591
 6; 2153.4; 18-JUL-2009 01:50:50; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;38591
 7; 2761.6; 18-JUL-2009 02:00:58; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38591
 8; 2892.2; 18-JUL-2009 02:03:08; Bright; 48.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 96; 0;38591
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6;-1561.8; 18-JUL-2009 04:10:06; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38592
7; -910.0; 18-JUL-2009 04:20:58; Dark ; 64.0; 94; 92Alp Cet ; 2.53; 3100;occ; 128; 0;38592
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11; 4656.9; 24-JUL-2009 12:47:38; Dark ; 48.0; 146; 25Eta Tau ; 2.87; 15200;occ; 96; 0;38683
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6; 3666.3; 24-JUL-2009 15:52:20; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38685
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6; 3665.8; 24-JUL-2009 17:32:55; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;38686
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 4; 3133.4; 25-JUL-2009 15:11:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38699
 5; 3552.2; 25-JUL-2009 15:18:49; Bright; 67.5; 74; 11Bet Cas ; 2.27; 6600;occ; 135; 0;38699
 6; 3657.6; 25-JUL-2009 15:20:34; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38699
 7; 4008.6; 25-JUL-2009 15:26:25; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38699
 8; 4100.2; 25-JUL-2009 15:27:56; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38699
 9; 4287.8; 25-JUL-2009 15:31:04; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38699
 10; 4488.8; 25-JUL-2009 15:34:25; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38699
 11; 4662.1; 25-JUL-2009 15:37:18; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38699
 12; 4757.5; 25-JUL-2009 15:38:54; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38699
 13; 5370.7; 25-JUL-2009 15:49:07; Dark ; 55.0; 165; 34Gam Eri ; 2.95; 3200;occ; 110; 0;38699
 14; 5601.8; 25-JUL-2009 15:52:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38699
 15; 5929.6; 25-JUL-2009 15:58:26; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38699
 16; 6529.0; 25-JUL-2009 16:08:25; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38699
 17; 6904.7; 25-JUL-2009 16:14:41; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38699
 18; 7096.8; 25-JUL-2009 16:17:53; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38699

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 3; 2815.7; 25-JUL-2009 16:47:08; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38700
 4; 3133.0; 25-JUL-2009 16:52:25; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38700
 5; 3551.5; 25-JUL-2009 16:59:24; Bright; 53.0; 74; 11Bet Cas ; 2.27; 6600;occ; 106; 0;38700
 6; 3656.9; 25-JUL-2009 17:01:09; Bright; 71.0; 76; 27Gam Cas ; 2.30; 30000;occ; 142; 0;38700
 7; 4008.3; 25-JUL-2009 17:07:01; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38700
 8; 4100.0; 25-JUL-2009 17:08:32; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38700
 9; 4287.7; 25-JUL-2009 17:11:40; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38700
 10; 4488.9; 25-JUL-2009 17:15:01; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38700
 11; 4662.6; 25-JUL-2009 17:17:55; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38700
 12; 4757.7; 25-JUL-2009 17:19:30; Dark ; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;38700
 13; 5371.3; 25-JUL-2009 17:29:44; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38700
 14; 5603.1; 25-JUL-2009 17:33:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38700
 15; 5930.5; 25-JUL-2009 17:39:03; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38700
 16; 6530.0; 25-JUL-2009 17:49:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38700
 17; 6905.3; 25-JUL-2009 17:55:18; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;38700

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 3; 2635.6; 25-JUL-2009 18:24:44; Bright; 48.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 96; 0;38701
 4; 2814.9; 25-JUL-2009 18:27:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38701
 5; 3132.6; 25-JUL-2009 18:33:01; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38701
 6; 3550.7; 25-JUL-2009 18:39:59; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38701
 7; 3656.2; 25-JUL-2009 18:41:44; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38701
 8; 4007.9; 25-JUL-2009 18:47:36; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;38701
 9; 4099.5; 25-JUL-2009 18:49:08; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38701
 10; 4287.7; 25-JUL-2009 18:52:16; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38701
 11; 4489.0; 25-JUL-2009 18:55:37; Dark ; 48.0; 150; 44Zet Per ; 2.89; 28000;occ; 96; 0;38701
 12; 4662.8; 25-JUL-2009 18:58:31; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;38701
 13; 4757.8; 25-JUL-2009 19:00:06; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38701
 14; 5372.1; 25-JUL-2009 19:10:20; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38701
 15; 5604.4; 25-JUL-2009 19:14:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38701
 16; 5931.2; 25-JUL-2009 19:19:40; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38701
 17; 6531.2; 25-JUL-2009 19:29:39; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38701
 18; 6905.9; 25-JUL-2009 19:35:54; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38701

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4; 498.5; 26-JUL-2009 00:31:30; Dark ; 62.5; 84; Alp Phe ; 2.40; 4500;occ; 125; 0;38705
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6; 1063.4; 26-JUL-2009 00:40:55; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38705
7; 2068.9; 26-JUL-2009 00:57:41; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38705
8; 2632.5; 26-JUL-2009 01:07:04; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38705
9; 2812.5; 26-JUL-2009 01:10:04; Bright; 44.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 89; 0;38705
10; 3130.4; 26-JUL-2009 01:15:22; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38705
11; 3547.3; 26-JUL-2009 01:22:19; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38705
12; 3653.6; 26-JUL-2009 01:24:06; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38705
13; 4006.8; 26-JUL-2009 01:29:59; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;38705
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15; 4287.0; 26-JUL-2009 01:34:39; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38705
16; 4489.5; 26-JUL-2009 01:38:01; Dark ; 50.5; 150; 44Zet Per ; 2.89; 28000;occ; 101; 0;38705
17; 4664.0; 26-JUL-2009 01:40:56; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38705
18; 4759.1; 26-JUL-2009 01:42:31; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;38705
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4; 499.6; 26-JUL-2009 02:12:07; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;38706
5; 872.2; 26-JUL-2009 02:18:20; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38706
6; 1064.0; 26-JUL-2009 02:21:32; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38706
7; 2068.8; 26-JUL-2009 02:38:17; Bright; 43.0; 11; 53Alp Aql ; 0.76; 8000;occ; 86; 0;38706
8; 2631.9; 26-JUL-2009 02:47:40; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38706
9; 2811.9; 26-JUL-2009 02:50:40; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38706
10; 3130.0; 26-JUL-2009 02:55:58; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38706
11; 3546.6; 26-JUL-2009 03:02:54; Bright; 31.0; 74; 11Bet Cas ; 2.27; 6600;occ; 62; 0;38706
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3; -2029.5; 26-JUL-2009 03:10:34; Bright; 43.0; 160; 23Gam Per ; 2.93; 4700;occ; 86; 0;38706
4; -1937.4; 26-JUL-2009 03:12:06; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38706
5; -1749.0; 26-JUL-2009 03:15:15; Bright; 53.0; 79; 26Bet Per ; 2.31; 13100;occ; 106; 0;38706
6; -1546.4; 26-JUL-2009 03:18:37; Dark ; 48.5; 150; 44Zet Per ; 2.89; 28000;occ; 97; 0;38706
7; -1371.6; 26-JUL-2009 03:21:32; Dark ; 52.5; 146; 25Eta Tau ; 2.87; 15200;occ; 105; 0;38706
8; -1276.4; 26-JUL-2009 03:23:07; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;38706
9; -660.1; 26-JUL-2009 03:33:24; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38706
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14; 1064.6; 26-JUL-2009 04:02:08; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38707
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4; -1749.0; 26-JUL-2009 04:55:51; Bright; 55.0; 79; 26Bet Per ; 2.31; 13100;occ; 110; 0;38707
5; -1546.3; 26-JUL-2009 04:59:14; Dark ; 50.5; 150; 44Zet Per ; 2.89; 28000;occ; 101; 0;38707
6; -1371.4; 26-JUL-2009 05:02:08; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38707
7; -1276.0; 26-JUL-2009 05:03:44; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;38707
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12; 873.4; 26-JUL-2009 05:39:33; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;38708
13; 1065.1; 26-JUL-2009 05:42:45; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38708
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16; 2810.8; 26-JUL-2009 06:11:51; Bright; 64.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 128; 0;38708
17; 3129.1; 26-JUL-2009 06:17:09; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38708

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3; 2067.3; 26-JUL-2009 21:04:51; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38717
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17; 4668.1; 26-JUL-2009 23:28:47; Dark ; 52.5; 146; 25Eta Tau ; 2.87; 15200;occ; 105; 0;38718
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16; 6558.0; 27-JUL-2009 11:44:29; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38725
17; 6919.9; 27-JUL-2009 11:50:30; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38725
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3; 2800.4; 27-JUL-2009 12:22:27; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38726
4; 3120.4; 27-JUL-2009 12:27:47; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38726
5; 3531.0; 27-JUL-2009 12:34:37; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 0;38726
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7; 4000.7; 27-JUL-2009 12:42:27; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;38726
8; 4094.4; 27-JUL-2009 12:44:01; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38726

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 12; 4766.3; 27-JUL-2009 12:55:13; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;38726
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 12; 4767.4; 27-JUL-2009 17:57:02; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;38729
 13; 5393.8; 27-JUL-2009 18:07:28; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38729
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 16; 6562.6; 27-JUL-2009 18:26:57; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38729
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 4; 2615.5; 27-JUL-2009 19:01:46; Bright; 46.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 92; 0;38730
 5; 2709.8; 27-JUL-2009 19:03:20; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38730
 6; 2798.0; 27-JUL-2009 19:04:48; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38730
 7; 3118.5; 27-JUL-2009 19:10:09; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38730
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 5; 888.3; 28-JUL-2009 01:15:22; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38734
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 9; 2708.7; 28-JUL-2009 01:45:43; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38734
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 11; 3116.6; 28-JUL-2009 01:52:30; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38734
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 6; 1079.7; 28-JUL-2009 02:59:09; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38735
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13; 5285.0; 31-JUL-2009 17:39:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38786
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