

GOMOS Daily Report 08-JUL-2009

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	11JUL2009 04:40:44
Data source version	GOMOS/5.00
Start time of products	08JUL2009 00:00:12
Stop time of products	08JUL2009 23:53:29
Store outputs in DB	Yes
Nb of level 1b prods	81
Nb of prods with errors	1

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

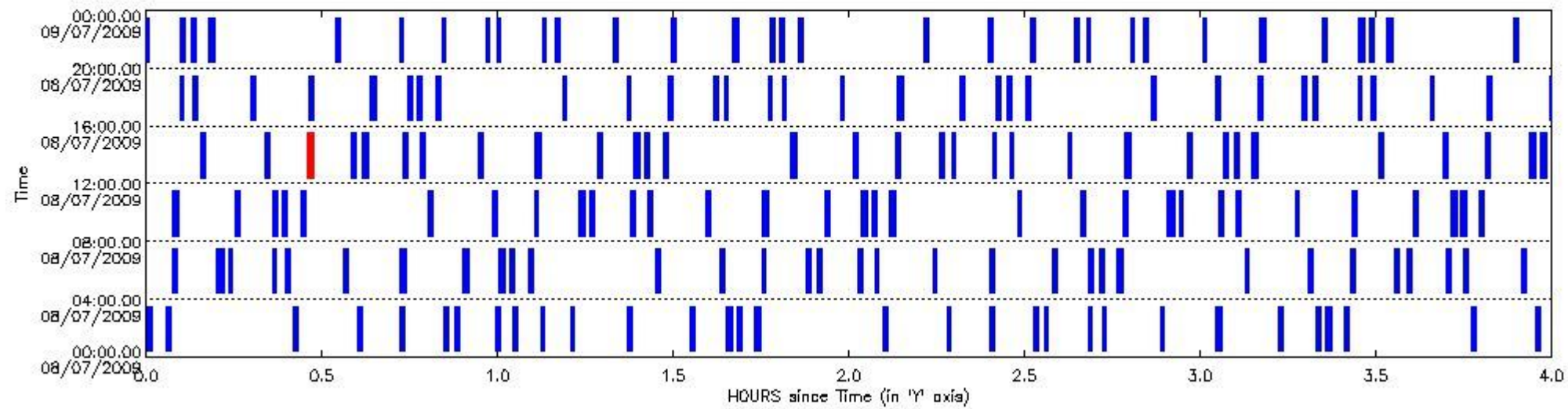
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

UTC start time	Star name	Star ID	Orbit
08-JUL-2009 12:27:26	5AlpCep	89	38454

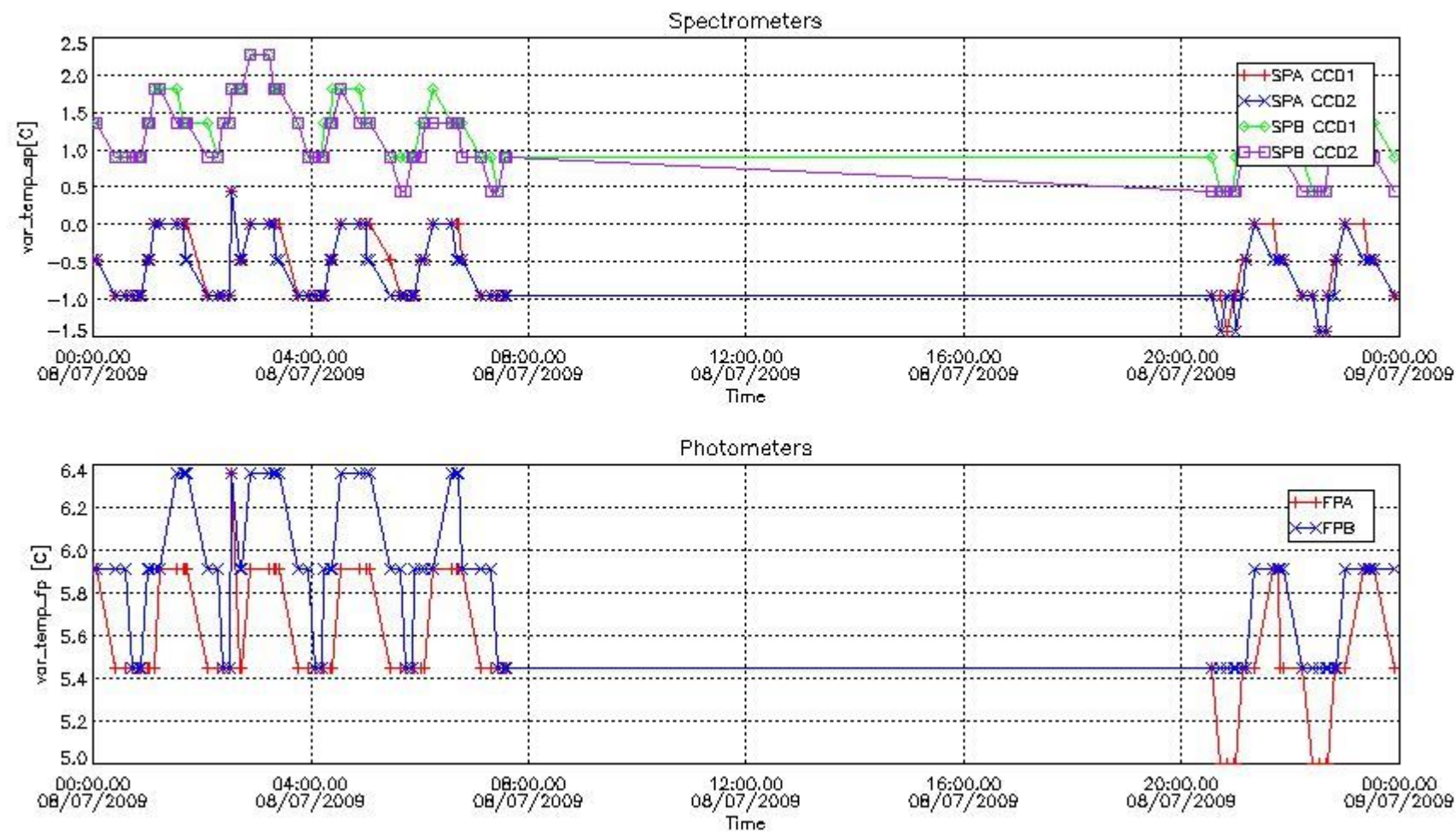
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090708_000012_000000502080_00317_38447_8410.N1	08-JUL-2009 00:00:12	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	38447	No
2	GOM_TRA_1PNPDE20090708_000318_000000562080_00317_38447_8411.N1	08-JUL-2009 00:03:18	Straylight	56.000	172	Gam Gru	3.0030	13100.	112	38447	No
3	GOM_TRA_1PNPDE20090708_002510_000000422080_00317_38447_8412.N1	08-JUL-2009 00:25:10	Bright	41.500	168	17Zet Aql	2.9860	11000.	83	38447	No
4	GOM_TRA_1PNPDE20090708_003607_000000452080_00317_38447_8413.N1	08-JUL-2009 00:36:07	Bright	44.500	144	18Del Cyg	2.8600	11000.	89	38447	No
5	GOM_TRA_1PNPDE20090708_004320_000000432080_00317_38447_8414.N1	08-JUL-2009 00:43:20	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	38447	No
6	GOM_TRA_1PNPDE20090708_005051_000000482080_00317_38447_8415.N1	08-JUL-2009 00:50:51	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	38447	No
7	GOM_TRA_1PNPDE20090708_005247_000000392080_00317_38447_8416.N1	08-JUL-2009 00:52:47	Bright	39.000	110	37Del Cas	2.6780	8900.0	78	38447	No
8	GOM_TRA_1PNPDE20090708_005940_000000432080_00317_38447_8417.N1	08-JUL-2009 00:59:40	Bright	42.500	73	57Gam1And	2.2600	13100.	85	38447	No
9	GOM_TRA_1PNPDE20090708_010234_000000432080_00317_38447_8418.N1	08-JUL-2009 01:02:34	Twilight_stray	43.000	173	4Bet Tri	3.0040	8900.0	86	38447	No
10	GOM_TRA_1PNPDE20090708_010721_000000302080_00317_38447_8419.N1	08-JUL-2009 01:07:21	Dark	30.000	50	13Alp Ari	2.0070	4250.0	60	38447	No

11	GOM_TRA_1PNPDE20090708_011229_000000392080_00317_38447_8420.N1	08-JUL-2009 01:12:29	Dark	39.000	94	92Alp Cet	2.5260	3100.0	78	38447	No
12	GOM_TRA_1PNPDE20090708_013244_000000522080_00318_38448_8545.N1	08-JUL-2009 01:32:44	Dark	51.500	84	Alp Phe	2.3970	4500.0	103	38448	No
13	GOM_TRA_1PNPDE20090708_013901_000000652080_00318_38448_8546.N1	08-JUL-2009 01:39:01	Straylight	64.500	63	Bet Gru	2.1500	2800.0	129	38448	No
14	GOM_TRA_1PNPDE20090708_014049_000000512080_00318_38448_8547.N1	08-JUL-2009 01:40:49	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	38448	No
15	GOM_TRA_1PNPDE20090708_014355_000000572080_00318_38448_8548.N1	08-JUL-2009 01:43:55	Straylight	56.500	172	Gam Gru	3.0030	13100.	113	38448	No
16	GOM_TRA_1PNPDE20090708_020546_000000442080_00318_38448_8549.N1	08-JUL-2009 02:05:46	Bright	44.000	168	17Zet Aql	2.9860	11000.	88	38448	No
17	GOM_TRA_1PNPDE20090708_021642_000000422080_00318_38448_8550.N1	08-JUL-2009 02:16:42	Bright	42.000	144	18Del Cyg	2.8600	11000.	84	38448	No
18	GOM_TRA_1PNPDE20090708_022356_000000472080_00318_38448_8551.N1	08-JUL-2009 02:23:56	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	38448	No
19	GOM_TRA_1PNPDE20090708_023126_000000452080_00318_38448_8552.N1	08-JUL-2009 02:31:26	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	38448	No
20	GOM_TRA_1PNPDE20090708_023322_000000402080_00318_38448_8704.N1	08-JUL-2009 02:33:22	Bright	39.500	110	37Del Cas	2.6780	8900.0	79	38448	Yes
21	GOM_TRA_1PNPDE20090708_024056_000000342080_00318_38448_8705.N1	08-JUL-2009 02:40:56	Bright	34.000	79	26Bet Per	2.3100	13100.	68	38448	No
22	GOM_TRA_1PNPDE20090708_024310_000000452080_00318_38448_8706.N1	08-JUL-2009 02:43:10	Twilight_stray	44.500	173	4Bet Tri	3.0040	8900.0	89	38448	No
23	GOM_TRA_1PNPDE20090708_025306_000000412080_00318_38448_8707.N1	08-JUL-2009 02:53:06	Dark	40.500	94	92Alp Cet	2.5260	3100.0	81	38448	No
24	GOM_TRA_1PNPDE20090708_031321_000000532080_00319_38449_8708.N1	08-JUL-2009 03:13:21	Dark	52.500	84	Alp Phe	2.3970	4500.0	105	38449	No
25	GOM_TRA_1PNPDE20090708_031938_000000572080_00319_38449_8709.N1	08-JUL-2009 03:19:38	Straylight	56.500	63	Bet Gru	2.1500	2800.0	113	38449	No
26	GOM_TRA_1PNPDE20090708_032126_000000552080_00319_38449_8710.N1	08-JUL-2009 03:21:26	Straylight	55.000	31	Alp Gru	1.7340	15200.	110	38449	No
27	GOM_TRA_1PNPDE20090708_032432_000000562080_00319_38449_8711.N1	08-JUL-2009 03:24:32	Straylight	55.500	172	Gam Gru	3.0030	13100.	111	38449	No
28	GOM_TRA_1PNPDE20090708_034622_000000452080_00319_38449_8712.N1	08-JUL-2009 03:46:22	Bright	45.000	168	17Zet Aql	2.9860	11000.	90	38449	No
29	GOM_TRA_1PNPDE20090708_035718_000000452080_00319_38449_8713.N1	08-JUL-2009 03:57:18	Bright	44.500	144	18Del Cyg	2.8600	11000.	89	38449	No
30	GOM_TRA_1PNPDE20090708_040431_000000422080_00319_38449_8714.N1	08-JUL-2009 04:04:31	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	38449	No
31	GOM_TRA_1PNPDE20090708_041202_000000722080_00319_38449_8863.N1	08-JUL-2009 04:12:02	Bright	72.000	74	11Bet Cas	2.2680	6600.0	144	38449	No
32	GOM_TRA_1PNPDE20090708_041358_000000402080_00319_38449_8864.N1	08-JUL-2009 04:13:58	Bright	39.500	110	37Del Cas	2.6780	8900.0	79	38449	No
33	GOM_TRA_1PNPDE20090708_042132_000000352080_00319_38449_8865.N1	08-JUL-2009 04:21:32	Bright	34.500	79	26Bet Per	2.3100	13100.	69	38449	No
34	GOM_TRA_1PNPDE20090708_042346_000000442080_00319_38449_8866.N1	08-JUL-2009 04:23:46	Twilight_stray	43.500	173	4Bet Tri	3.0040	8900.0	87	38449	No
35	GOM_TRA_1PNPDE20090708_043342_000000402080_00319_38449_8867.N1	08-JUL-2009 04:33:42	Dark	40.000	94	92Alp Cet	2.5260	3100.0	80	38449	No
36	GOM_TRA_1PNPDE20090708_045358_000000632080_00320_38450_8868.N1	08-JUL-2009 04:53:58	Dark	62.500	84	Alp Phe	2.3970	4500.0	125	38450	No
37	GOM_TRA_1PNPDE20090708_050015_000000632080_00320_38450_8869.N1	08-JUL-2009 05:00:15	Straylight	62.500	63	Bet Gru	2.1500	2800.0	125	38450	No
38	GOM_TRA_1PNPDE20090708_050202_000000522080_00320_38450_8870.N1	08-JUL-2009 05:02:02	Straylight	51.500	31	Alp Gru	1.7340	15200.	103	38450	No
39	GOM_TRA_1PNPDE20090708_050509_000000562080_00320_38450_8871.N1	08-JUL-2009 05:05:09	Straylight	55.500	172	Gam Gru	3.0030	13100.	111	38450	No
40	GOM_TRA_1PNPDE20090708_052657_000000442080_00320_38450_8872.N1	08-JUL-2009 05:26:57	Bright	44.000	168	17Zet Aql	2.9860	11000.	88	38450	No
41	GOM_TRA_1PNPDE20090708_053753_000000452080_00320_38450_8873.N1	08-JUL-2009 05:37:53	Bright	45.000	144	18Del Cyg	2.8600	11000.	90	38450	No
42	GOM_TRA_1PNPDE20090708_054506_000000442080_00320_38450_8874.N1	08-JUL-2009 05:45:06	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38450	No
43	GOM_TRA_1PNPDE20090708_055237_000000462080_00320_38450_9046.N1	08-JUL-2009 05:52:37	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	38450	No
44	GOM_TRA_1PNPDE20090708_055434_000000402080_00320_38450_9047.N1	08-JUL-2009 05:54:34	Bright	40.000	110	37Del Cas	2.6780	8900.0	80	38450	No
45	GOM_TRA_1PNPDE20090708_060128_000000442080_00320_38450_9048.N1	08-JUL-2009 06:01:28	Bright	44.000	73	57Gam1And	2.2600	13100.	88	38450	No
46	GOM_TRA_1PNPDE20090708_060422_000000432080_00320_38450_9049.N1	08-JUL-2009 06:04:22	Twilight_stray	43.000	173	4Bet Tri	3.0040	8900.0	86	38450	No
47	GOM_TRA_1PNPDE20090708_061419_000000412080_00320_38450_9050.N1	08-JUL-2009 06:14:19	Dark	41.000	94	92Alp Cet	2.5260	3100.0	82	38450	No
48	GOM_TRA_1PNPDE20090708_063435_000000502080_00321_38451_9051.N1	08-JUL-2009 06:34:35	Dark	49.500	84	Alp Phe	2.3970	4500.0	99	38451	No
49	GOM_TRA_1PNPDE20090708_064051_000000552080_00321_38451_9052.N1	08-JUL-2009 06:40:51	Straylight	54.500	63	Bet Gru	2.1500	2800.0	109	38451	No
50	GOM_TRA_1PNPDE20090708_064239_000000532080_00321_38451_9053.N1	08-JUL-2009 06:42:39	Straylight	53.000	31	Alp Gru	1.7340	15200.	106	38451	No
51	GOM_TRA_1PNPDE20090708_064546_000000562080_00321_38451_9054.N1	08-JUL-2009 06:45:46	Straylight	56.000	172	Gam Gru	3.0030	13100.	112	38451	No
52	GOM_TRA_1PNPDE20090708_070733_000000412080_00321_38451_9055.N1	08-JUL-2009 07:07:33	Bright	40.500	168	17Zet Aql	2.9860	11000.	81	38451	No
53	GOM_TRA_1PNPDE20090708_071828_000000462080_00321_38451_9056.N1	08-JUL-2009 07:18:28	Bright	45.500	144	18Del Cyg	2.8600	11000.	91	38451	No
54	GOM_TRA_1PNPDE20090708_072541_000000452080_00321_38451_9057.N1	08-JUL-2009 07:25:41	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	38451	No
55	GOM_TRA_1PNPDE20090708_073313_000000442080_00321_38451_9058.N1	08-JUL-2009 07:33:13	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	38451	No
56	GOM_TRA_1PNPDE20090708_073509_000000132080_00321_38451_9059.N1	08-JUL-2009 07:35:09	Twilight_stray	13.000	110	37Del Cas	2.6780	8900.0	26	38451	No
57	GOM_TRA_1PNPDE20090708_203218_000000422080_00329_38459_9406.N1	08-JUL-2009 20:32:18	Bright	42.000	168	17Zet Aql	2.9860	11000.	84	38459	No
58	GOM_TRA_1PNPDE20090708_204310_000000462080_00329_38459_9407.N1	08-JUL-2009 20:43:10	Bright	45.500	144	18Del Cyg	2.8600	11000.	91	38459	No
59	GOM_TRA_1PNPDE20090708_205024_000000412080_00329_38459_9408.N1	08-JUL-2009 20:50:24	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	38459	No
60	GOM_TRA_1PNPDE20090708_205755_000000462080_00329_38459_9409.N1	08-JUL-2009 20:57:55	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	38459	No
61	GOM_TRA_1PNPDE20090708_205954_000000402080_00329_38459_9410.N1	08-JUL-2009 20:59:54	Bright	40.000	110	37Del Cas	2.6780	8900.0	80	38459	No
62	GOM_TRA_1PNPDE20090708_210732_000000352080_00329_38459_9411.N1	08-JUL-2009 21:07:32	Bright	34.500	79	26Bet Per	2.3100	13100.	69	38459	No
63	GOM_TRA_1PNPDE20090708_210946_000000452080_00329_38459_9412.N1	08-JUL-2009 21:09:46	Twilight_stray	44.500	173	4Bet Tri	3.0040	8900.0	89	38459	No
64	GOM_TRA_1PNPDE20090708_211947_000000402080_00329_38459_9413.N1	08-JUL-2009 21:19:47	Dark	39.500	94	92Alp Cet	2.5260	3100.0	79	38459	No
65	GOM_TRA_1PNPDE20090708_214009_000000532080_00330_38460_9575.N1	08-JUL-2009 21:40:09	Dark	53.000	84	Alp Phe	2.3970	4500.0	106	38460	No
66	GOM_TRA_1PNPDE20090708_214623_000000542080_00330_38460_9576.N1	08-JUL-2009 21:46:23	Straylight	54.000	63	Bet Gru	2.1500	2800.0	108	38460	No
67	GOM_TRA_1PNPDE20090708_214810_000000482080_00330_38460_9577.N1	08-JUL-2009 21:48:10	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	38460	No
68	GOM_TRA_1PNPDE20090708_215117_000000542080_00330_38460_9578.N1	08-JUL-2009 21:51:17	Straylight	54.000	172	Gam Gru	3.0030	13100.	108	38460	No
69	GOM_TRA_1PNPDE20090708_221253_000000432080_00330_38460_9579.N1	08-JUL-2009 22:12:53	Bright	42.500	168	17Zet Aql	2.9860	11000.	85	38460	No

70	GOM_TRA_1PNPDE20090708_222345_000000462080_00330_38460_9580.N1	08-JUL-2009 22:23:45	Bright	45.500	144	18Del Cyg	2.8600	11000.	91	38460	No
71	GOM_TRA_1PNPDE20090708_223059_000000482080_00330_38460_9581.N1	08-JUL-2009 22:30:59	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	38460	No
72	GOM_TRA_1PNPDE20090708_223830_000000462080_00330_38460_9582.N1	08-JUL-2009 22:38:30	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	38460	No
73	GOM_TRA_1PNPDE20090708_224029_000000402080_00330_38460_9583.N1	08-JUL-2009 22:40:29	Bright	40.000	110	37Del Cas	2.6780	8900.0	80	38460	No
74	GOM_TRA_1PNPDE20090708_224807_000000352080_00330_38460_9584.N1	08-JUL-2009 22:48:07	Bright	35.000	79	26Bet Per	2.3100	13100.	70	38460	No
75	GOM_TRA_1PNPDE20090708_225022_000000452080_00330_38460_9585.N1	08-JUL-2009 22:50:22	Twilight_and_stray	45.000	173	4Bet Tri	3.0040	8900.0	90	38460	No
76	GOM_TRA_1PNPDE20090708_230023_000000412080_00330_38460_9586.N1	08-JUL-2009 23:00:23	Dark	40.500	94	92Alp Cet	2.5260	3100.0	81	38460	No
77	GOM_TRA_1PNPDE20090708_232046_000000512080_00331_38461_9662.N1	08-JUL-2009 23:20:46	Dark	50.500	84	Alp Phe	2.3970	4500.0	101	38461	No
78	GOM_TRA_1PNPDE20090708_232700_000000562080_00331_38461_9663.N1	08-JUL-2009 23:27:00	Straylight	55.500	63	Bet Gru	2.1500	2800.0	111	38461	No
79	GOM_TRA_1PNPDE20090708_232846_000000572080_00331_38461_9664.N1	08-JUL-2009 23:28:46	Straylight	56.500	31	Alp Gru	1.7340	15200.	113	38461	No
80	GOM_TRA_1PNPDE20090708_233154_000000552080_00331_38461_9665.N1	08-JUL-2009 23:31:54	Straylight	54.500	172	Gam Gru	3.0030	13100.	109	38461	No
81	GOM_TRA_1PNPDE20090708_235329_000000432080_00331_38461_9666.N1	08-JUL-2009 23:53:29	Bright	42.500	168	17Zet Aql	2.9860	11000.	85	38461	No

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



4. Overview of dark signal processing per product

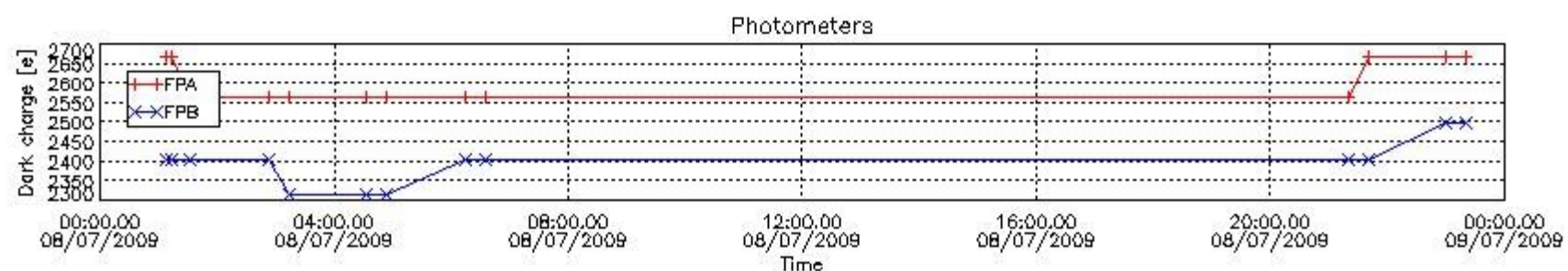
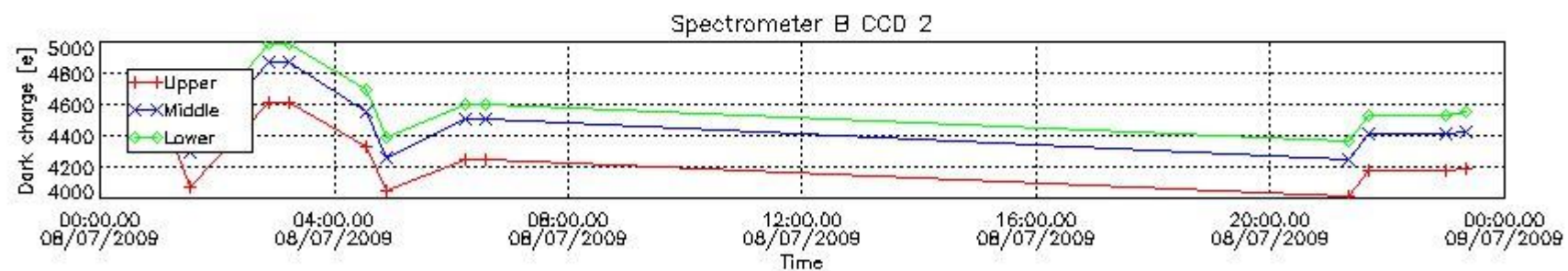
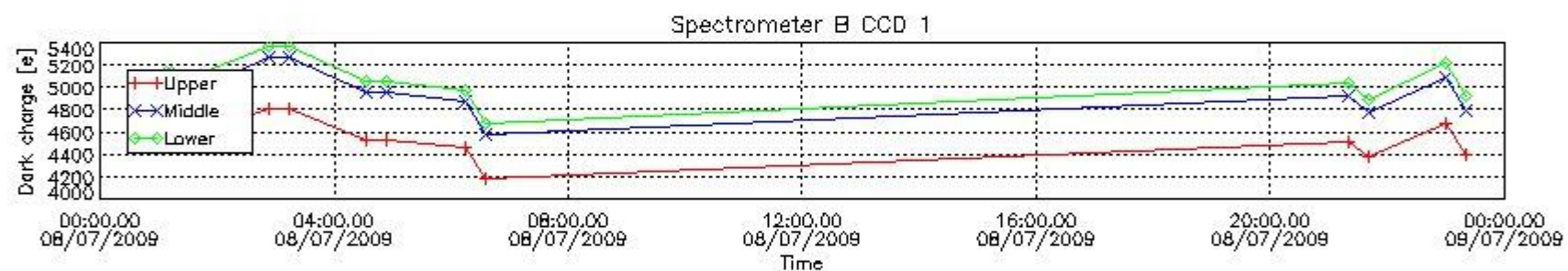
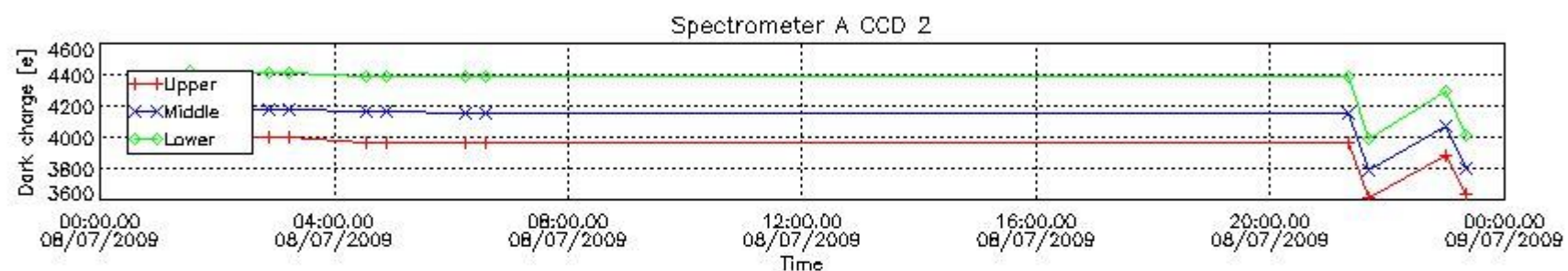
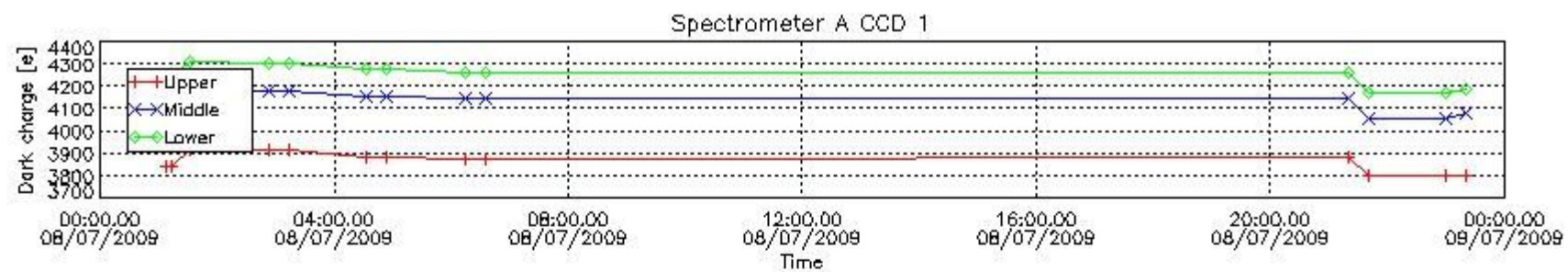
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090708_203218_000000422080_00329_38459_9406.N1	DC map used
GOM_TRA_1PNPDE20090708_204310_000000462080_00329_38459_9407.N1	DC map used
GOM_TRA_1PNPDE20090708_205024_000000412080_00329_38459_9408.N1	DC map used
GOM_TRA_1PNPDE20090708_205755_000000462080_00329_38459_9409.N1	DC map used
GOM_TRA_1PNPDE20090708_205954_000000402080_00329_38459_9410.N1	DC map used
GOM_TRA_1PNPDE20090708_210732_000000352080_00329_38459_9411.N1	DC map used
GOM_TRA_1PNPDE20090708_210946_000000452080_00329_38459_9412.N1	DC map used
GOM_TRA_1PNPDE20090708_211947_000000402080_00329_38459_9413.N1	DC map used

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



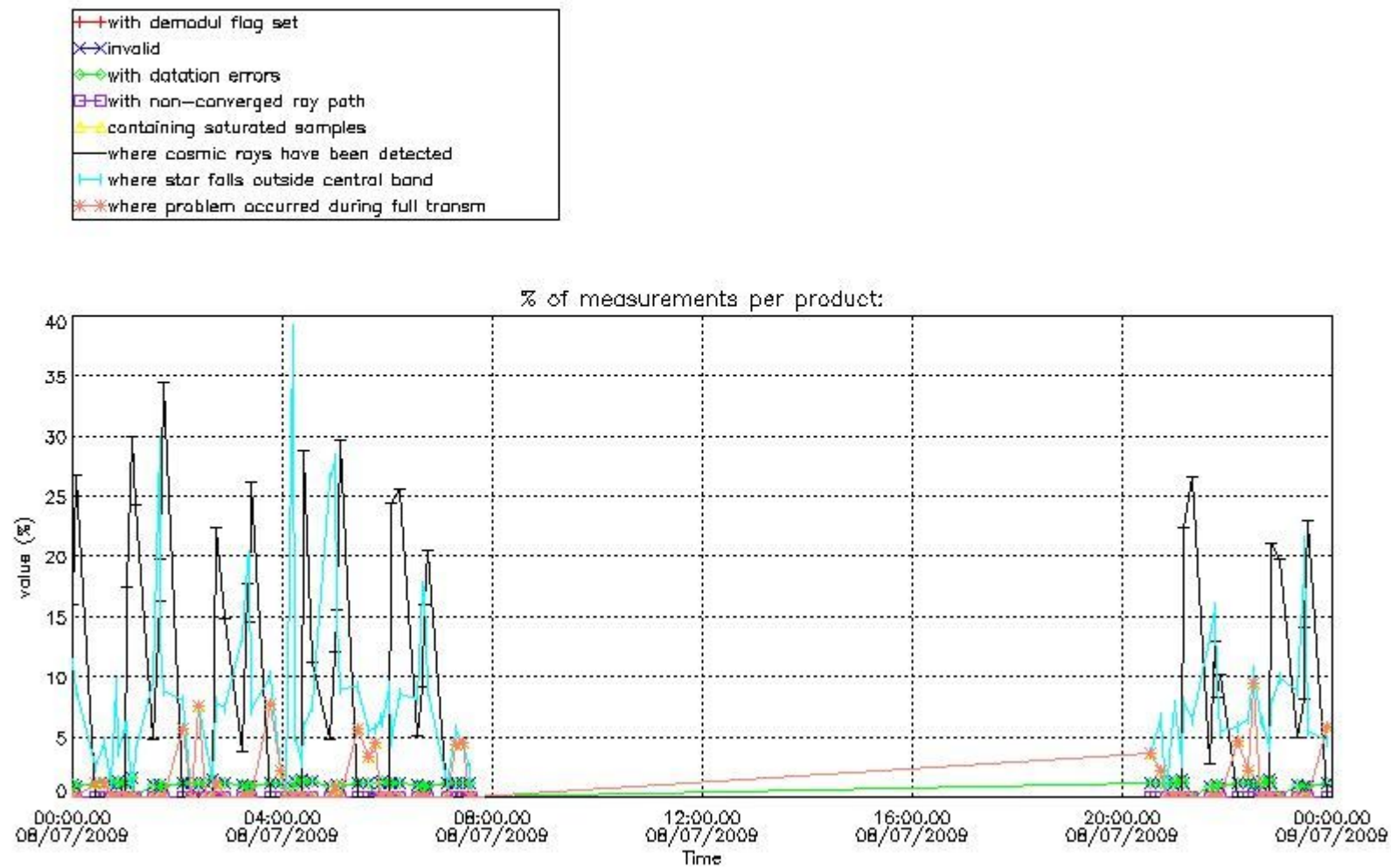
5. Demodulation flag and quality information monitoring

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.

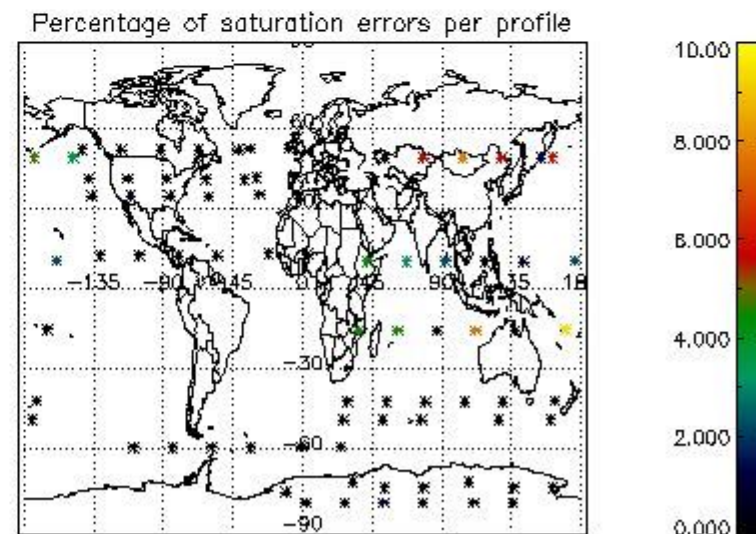
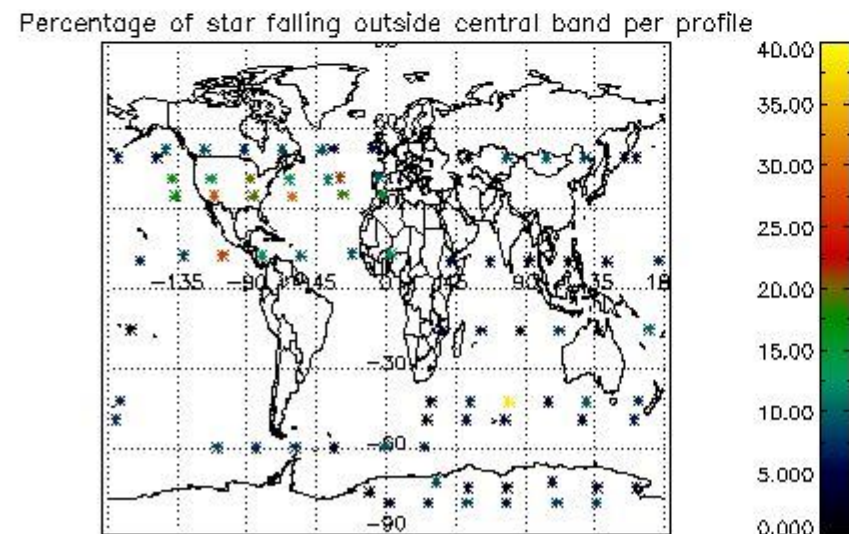
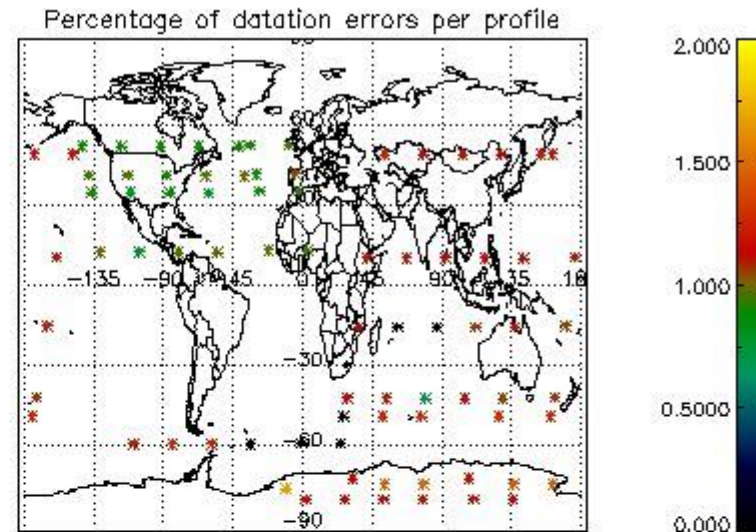
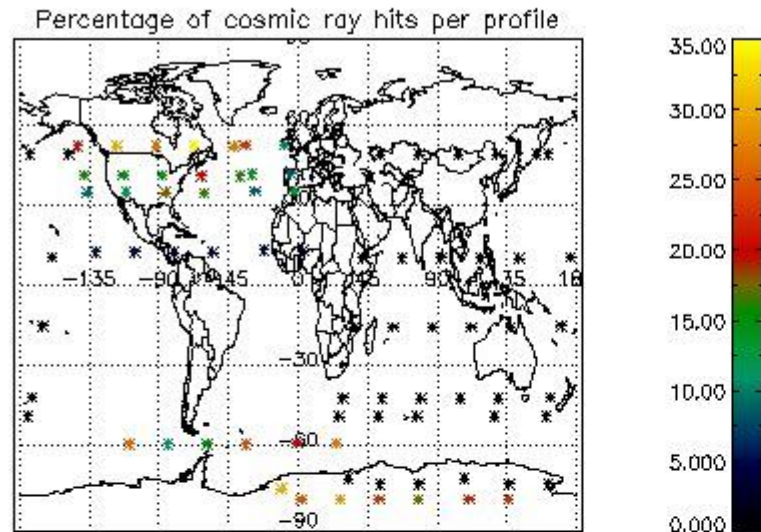
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.0000 %
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)



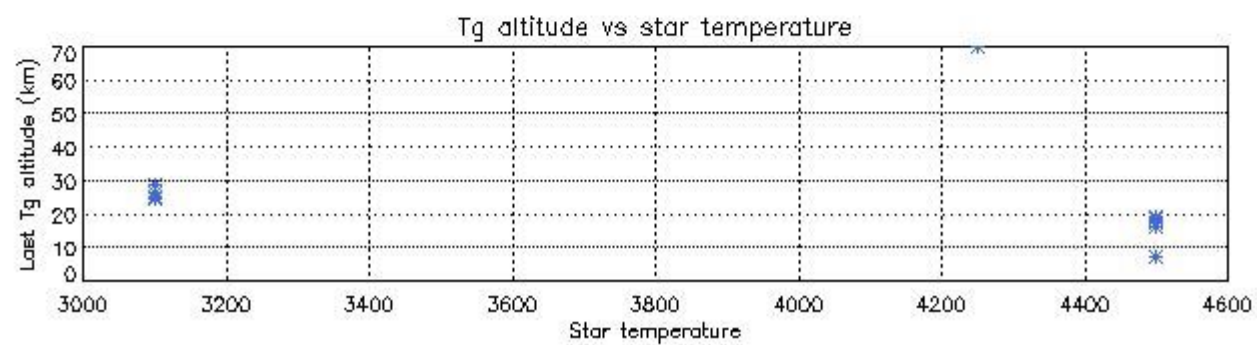
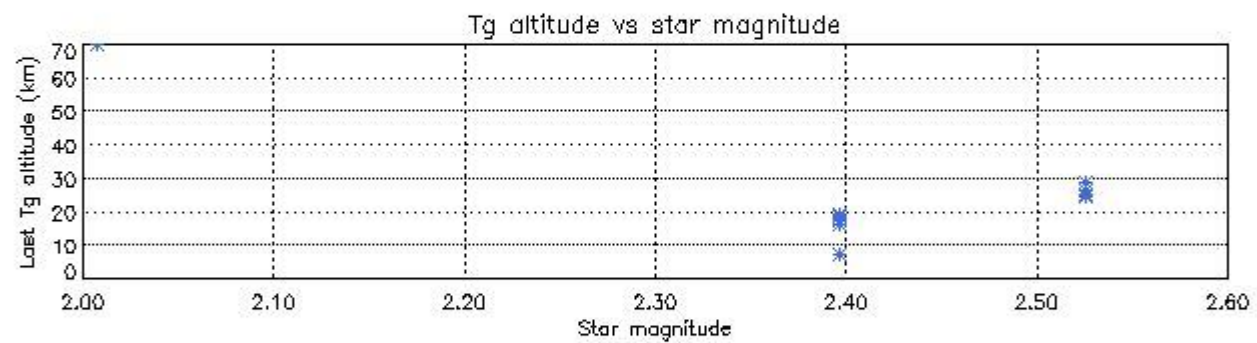
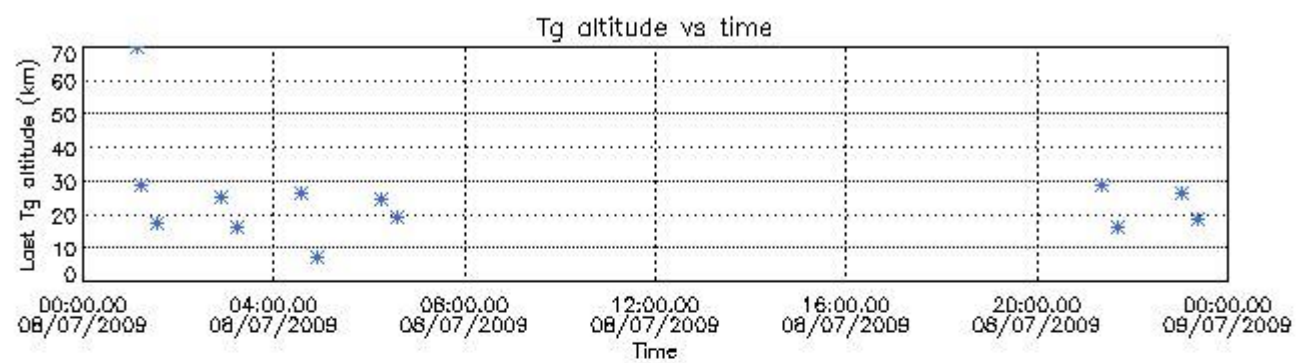
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	24.893	24.943	NaN
St. deviation:	14.912	6.0086	NaN
Maximum:	69.949	35.897	NaN
Minimum:	7.2372	3.4841	NaN
Number of data:	13.000	40.000	NaN

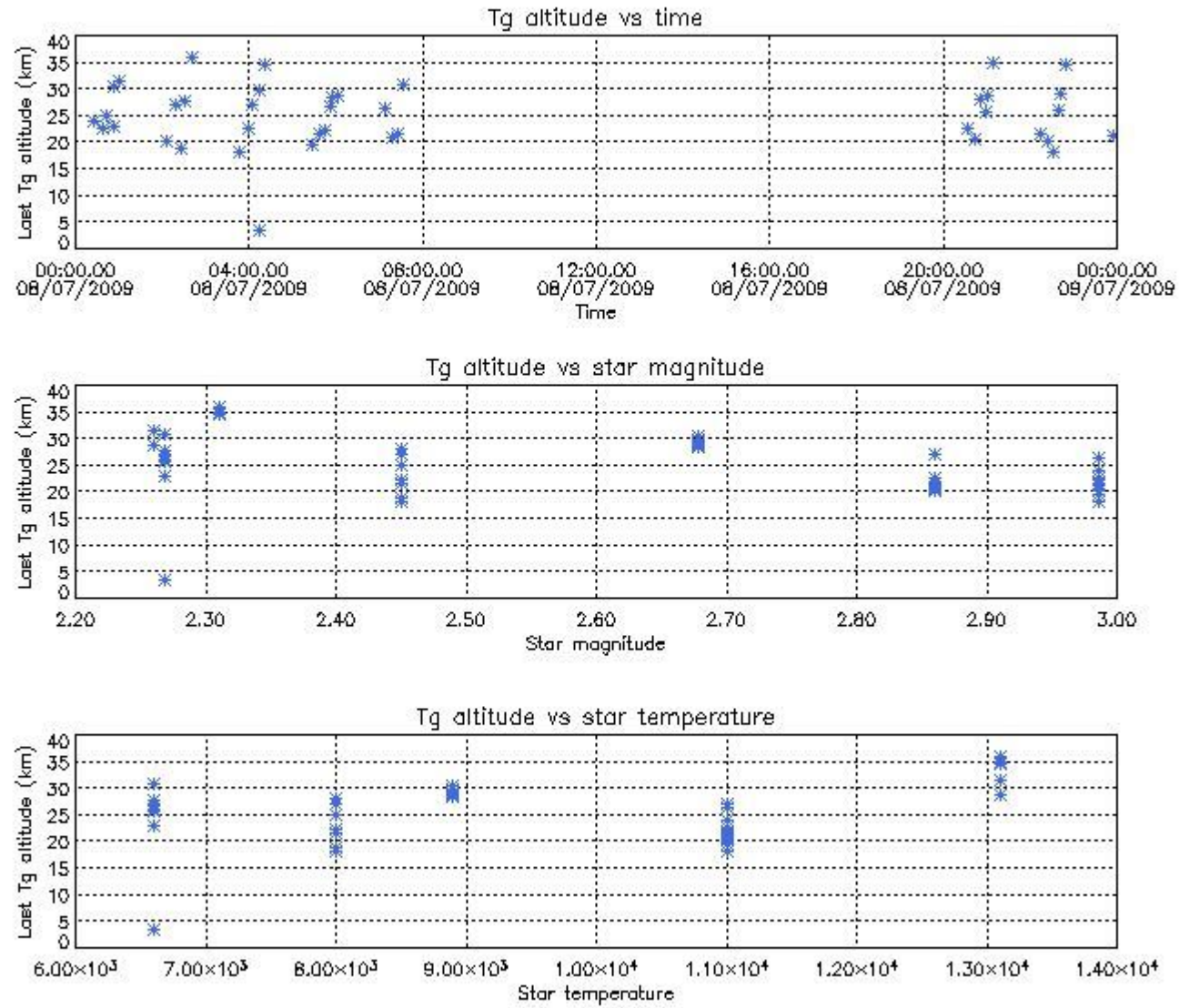
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

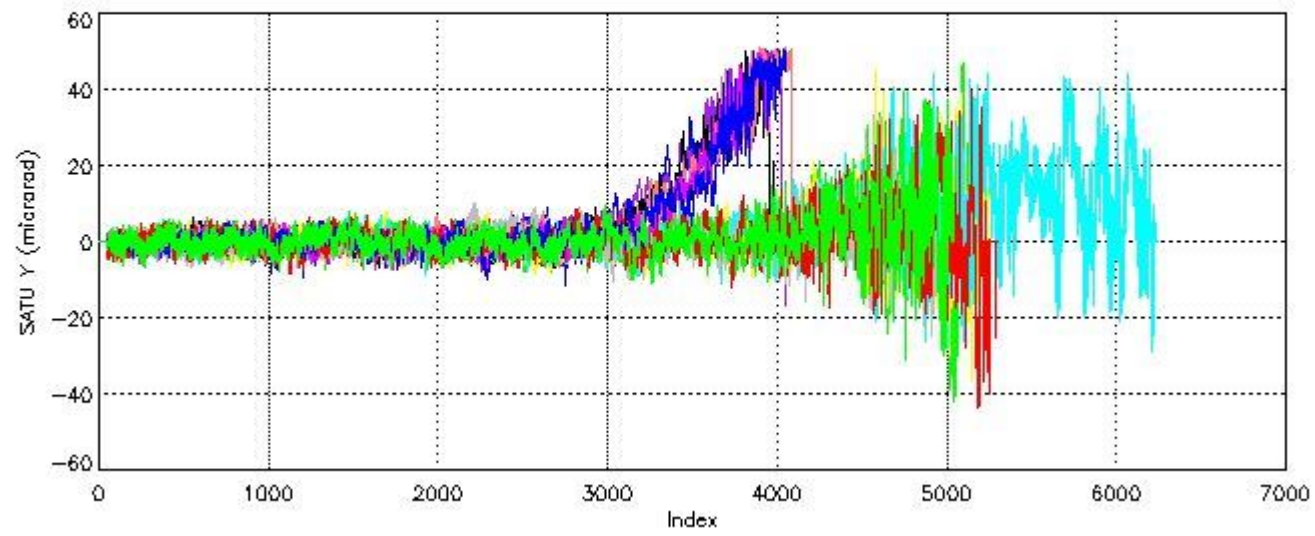
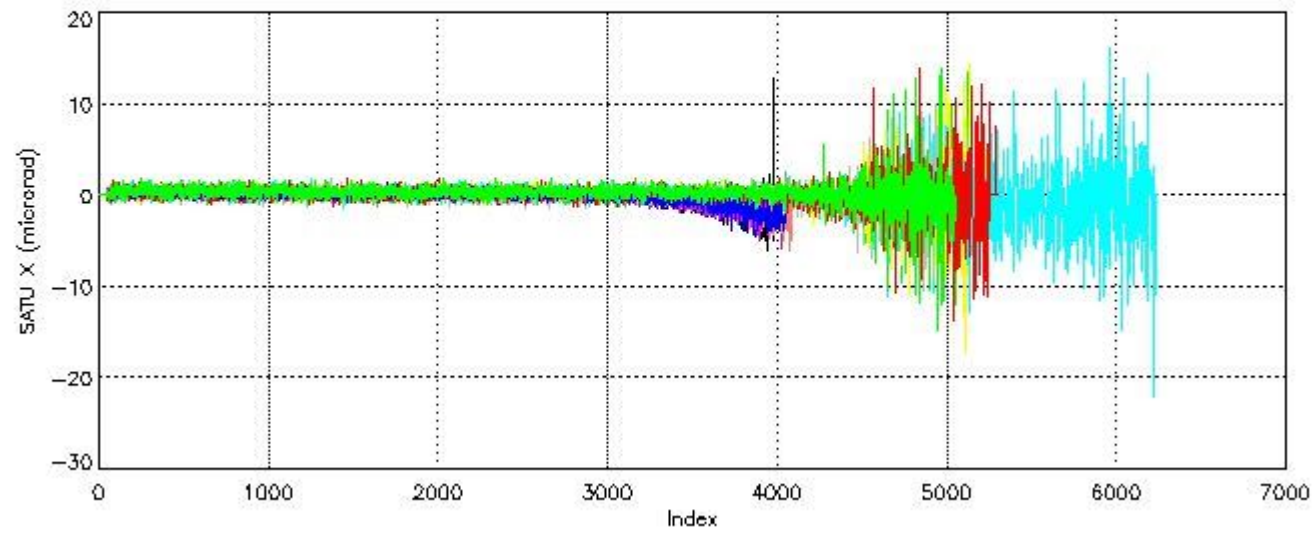


7. Star Acquisition and Tracking Unit (SATU)

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:	0.22103	-0.18614	0.27593	-0.25014
St. deviation:	0.35183	2.0619	1.2317	4.2156
Maximum:	1.8000	6.3000	6.8000	12.800
Minimum:	-1.2000	-8.6000	-6.3000	-14.400

Number of data:	14800.	14800.	42000.	42000.
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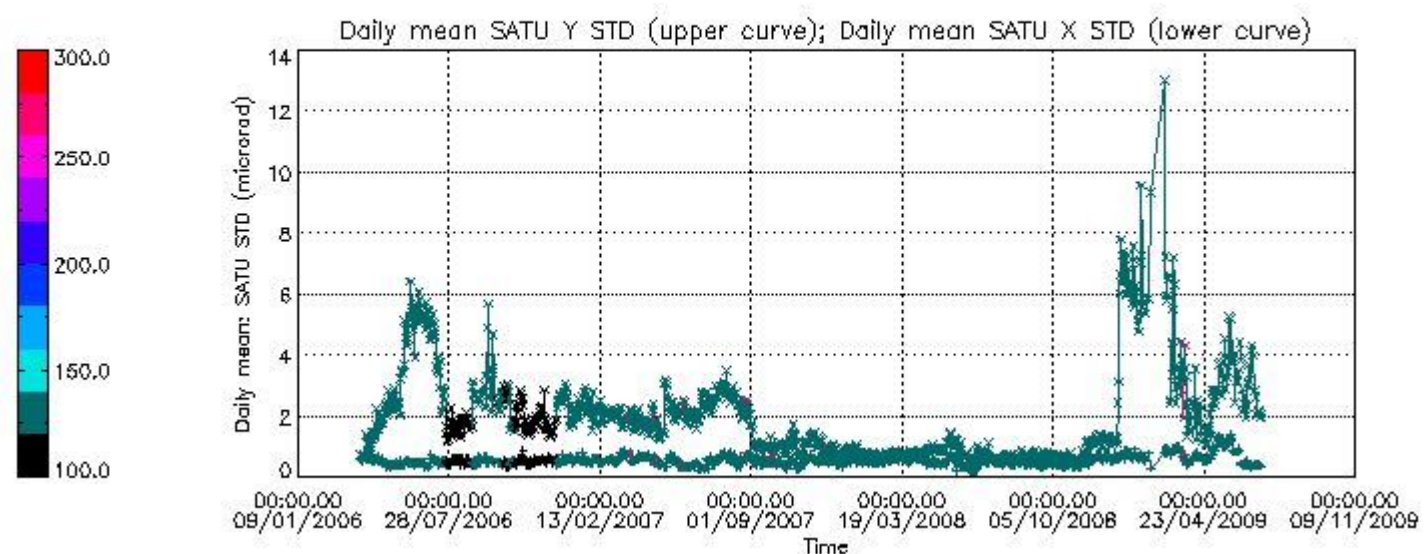
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

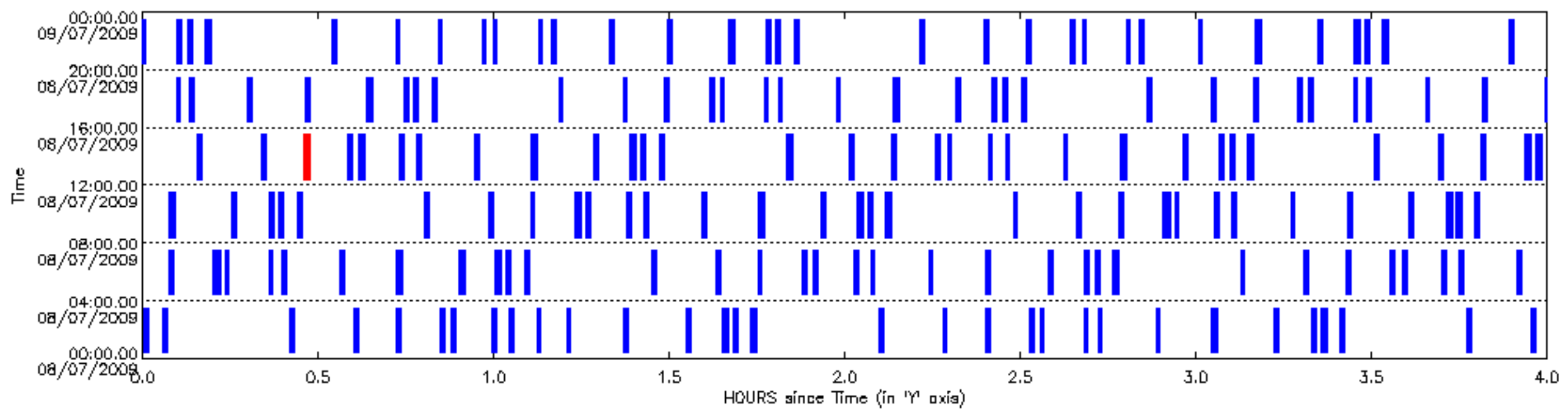
Lower curve: STD of SATU X axis

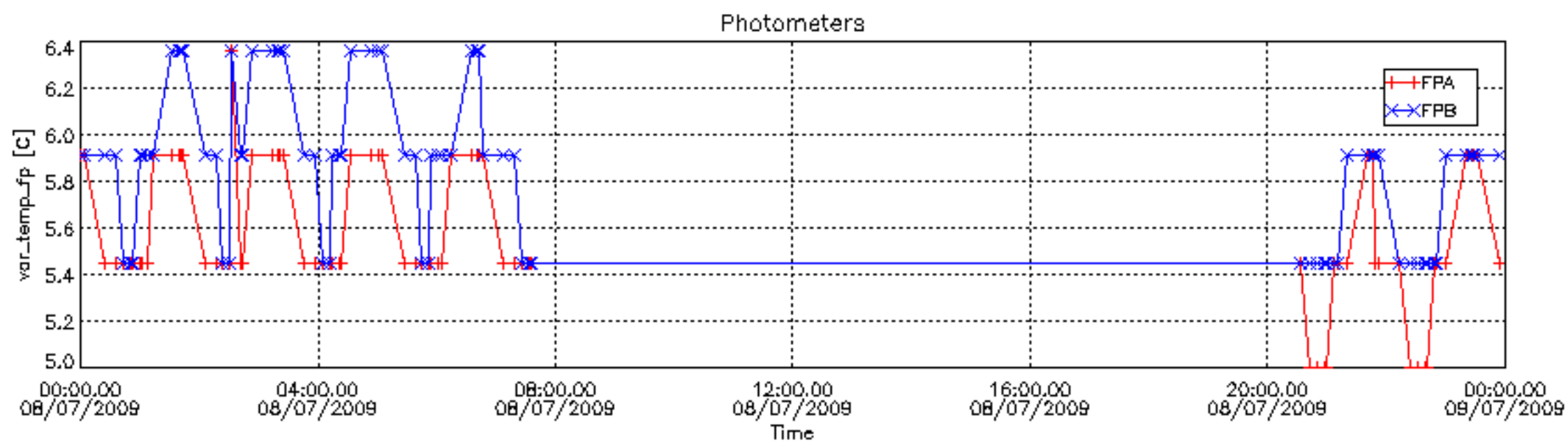
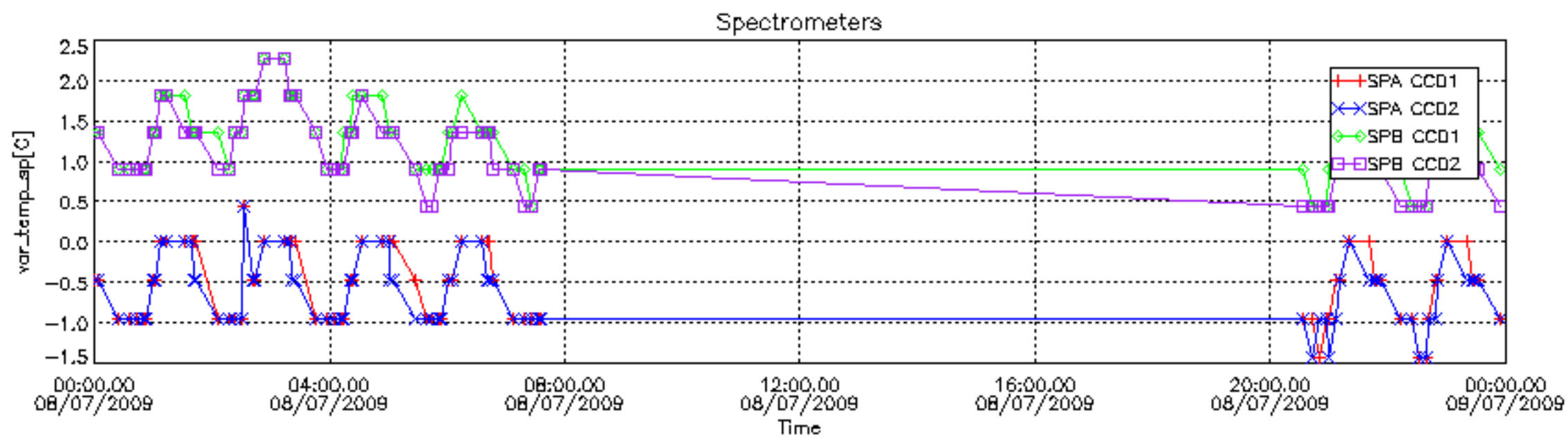


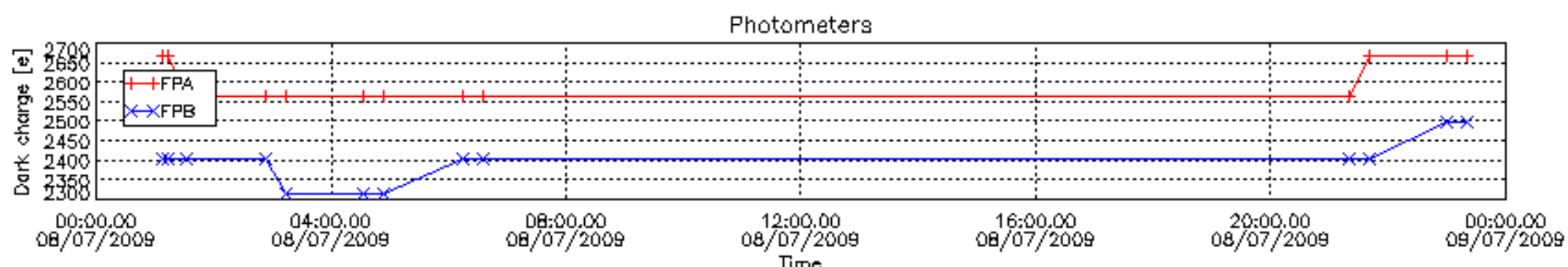
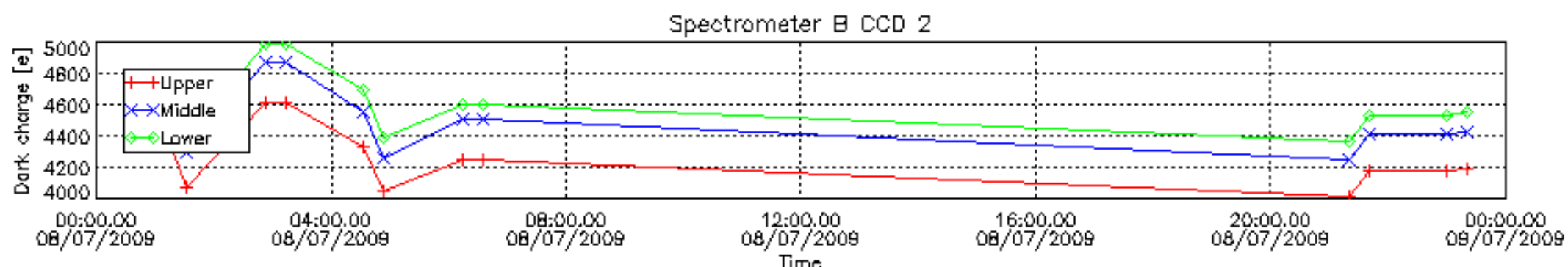
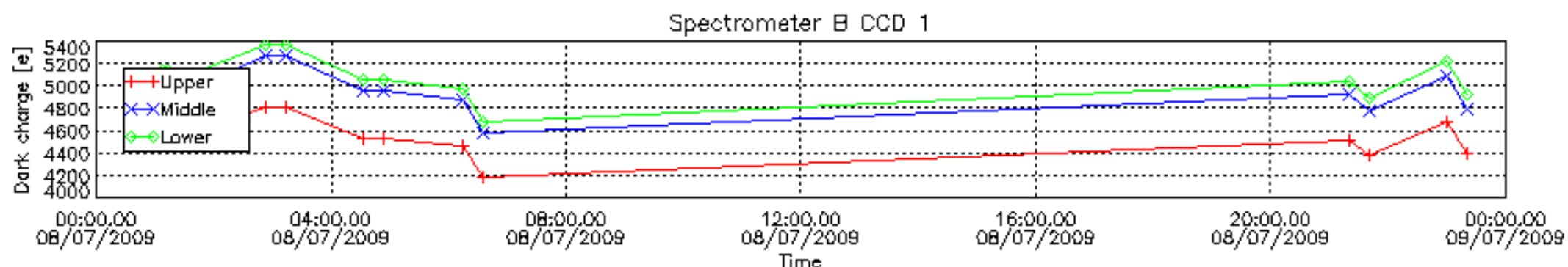
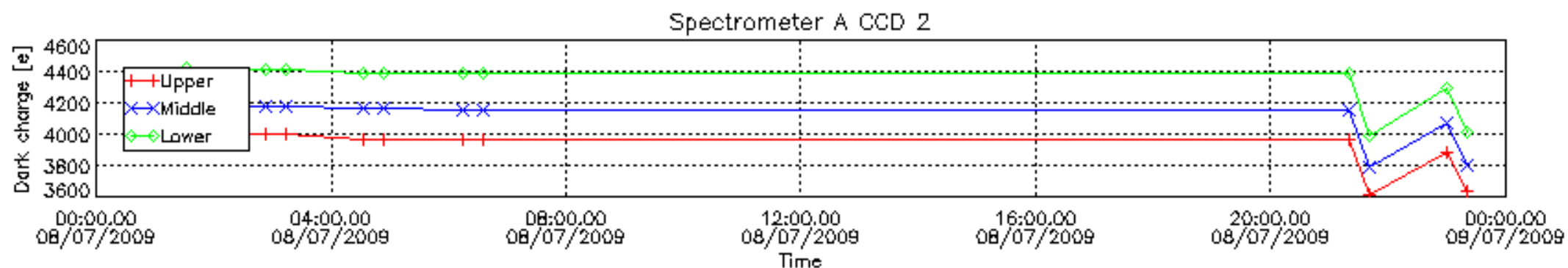
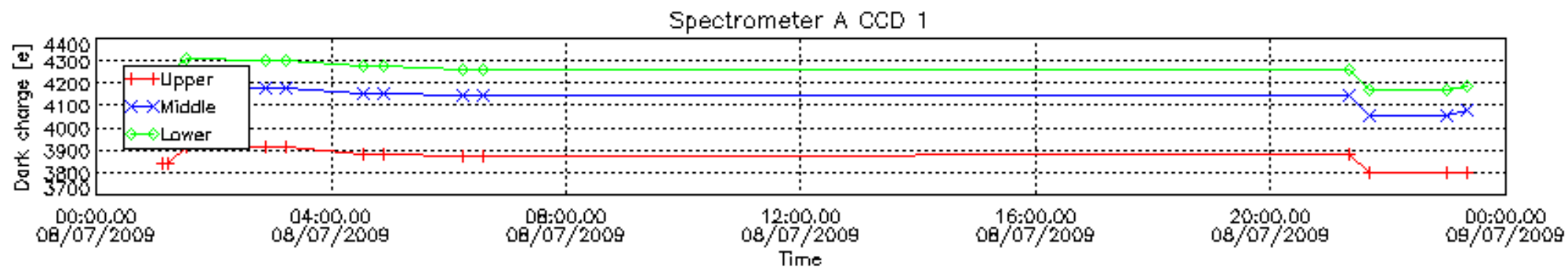
8. Auxiliary Data Files used for the production reported in section 2.4

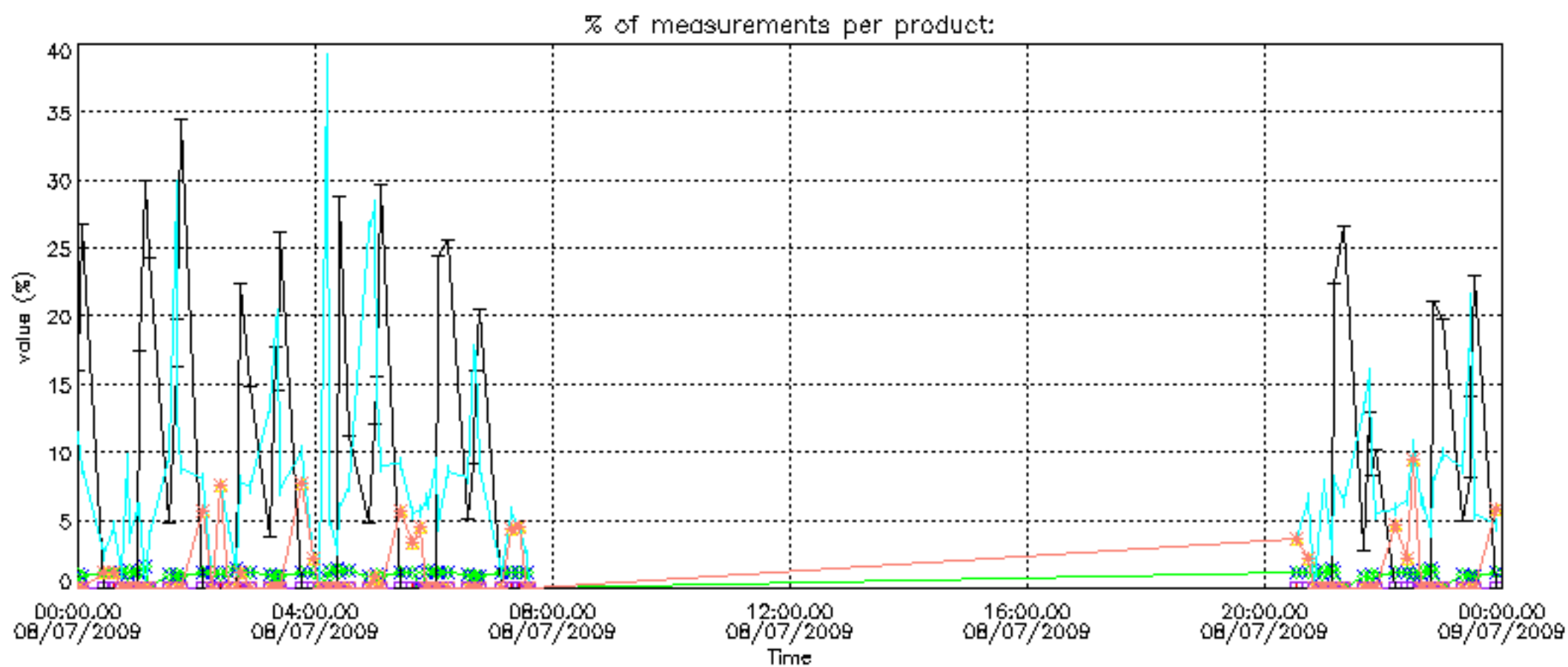
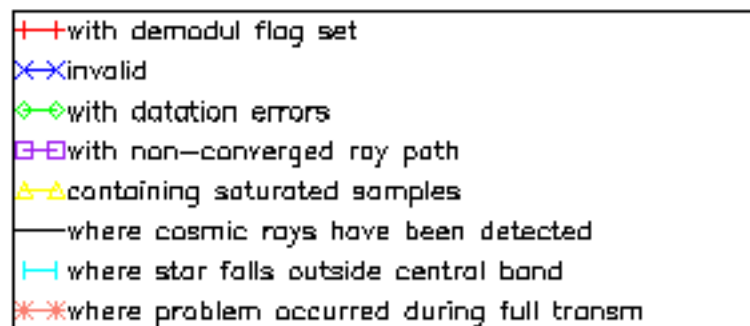
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	08-JUL-2009 00:00:12
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090701_074759_20090629_000000_20100101_000000	1	08-JUL-2009 00:00:12
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090708_092624_20090706_000000_20100101_000000	57	08-JUL-2009 20:32:18
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-JUL-2009 00:00:12
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-JUL-2009 00:00:12
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-JUL-2009 00:00:12
ECMWF_FILE	AUX_ECF_AXNECM20090707_064118_20090707_210000_20090708_090000	1	08-JUL-2009 00:00:12
ECMWF_FILE	AUX_ECF_AXNECM20090707_190113_20090708_030000_20090708_150000	31	08-JUL-2009 04:12:02
ECMWF_FILE	AUX_ECF_AXNECM20090708_064112_20090708_150000_20090709_030000	57	08-JUL-2009 20:32:18
ECMWF_FILE	AUX_ECF_AXNECM20090708_064112_20090708_210000_20090709_090000	65	08-JUL-2009 21:40:09
OPTIONAL_ECMWF_FILE	MISSING	1	08-JUL-2009 00:00:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090707_215135_000057382080_00315_38445_8306.N1	1	08-JUL-2009 00:00:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090707_233232_000057382080_00316_38446_8307.N1	12	08-JUL-2009 01:32:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090708_011329_000044632080_00317_38447_8308.N1	20	08-JUL-2009 02:33:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090708_023311_000054192080_00318_38448_8309.N1	31	08-JUL-2009 04:12:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090708_054946_000057382080_00320_38450_8311.N1	43	08-JUL-2009 05:52:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090708_201030_000038252080_00329_38459_8312.N1	57	08-JUL-2009 20:32:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090708_211934_000057382080_00329_38459_8313.N1	77	08-JUL-2009 23:20:46

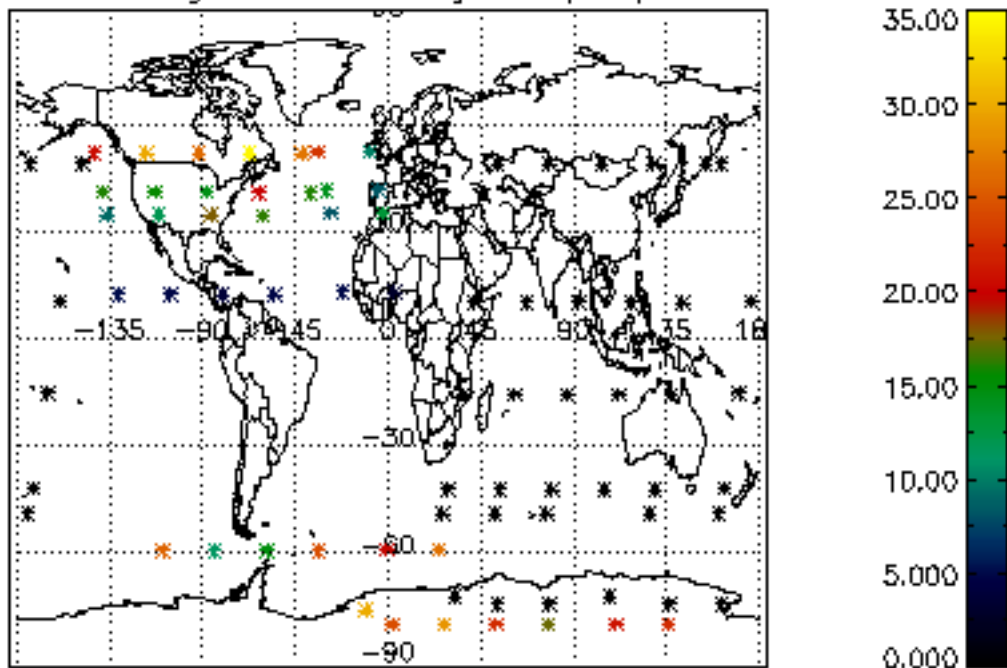




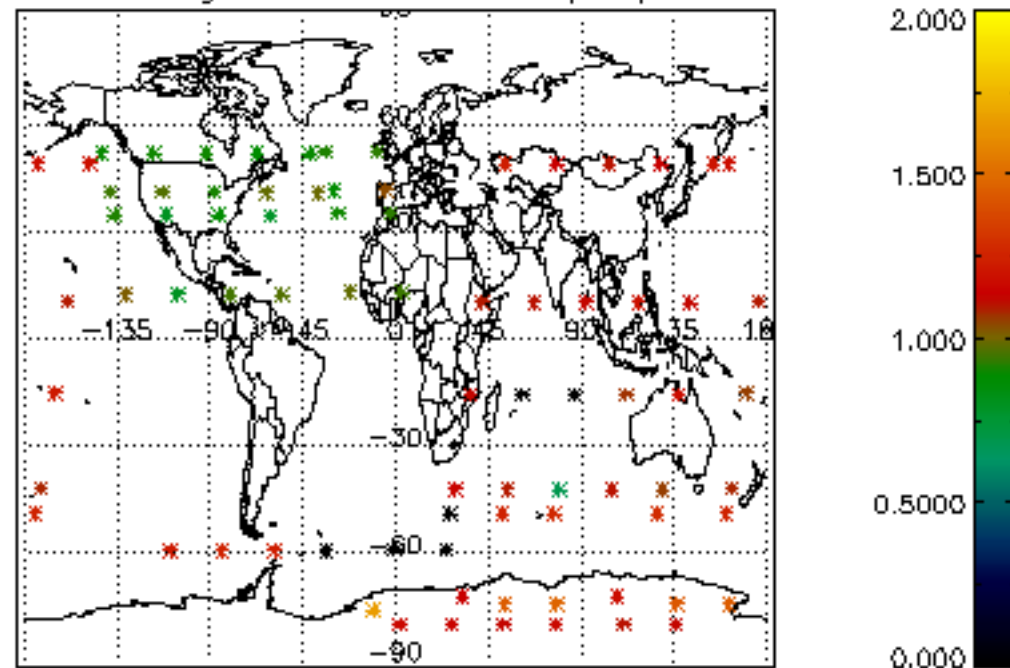




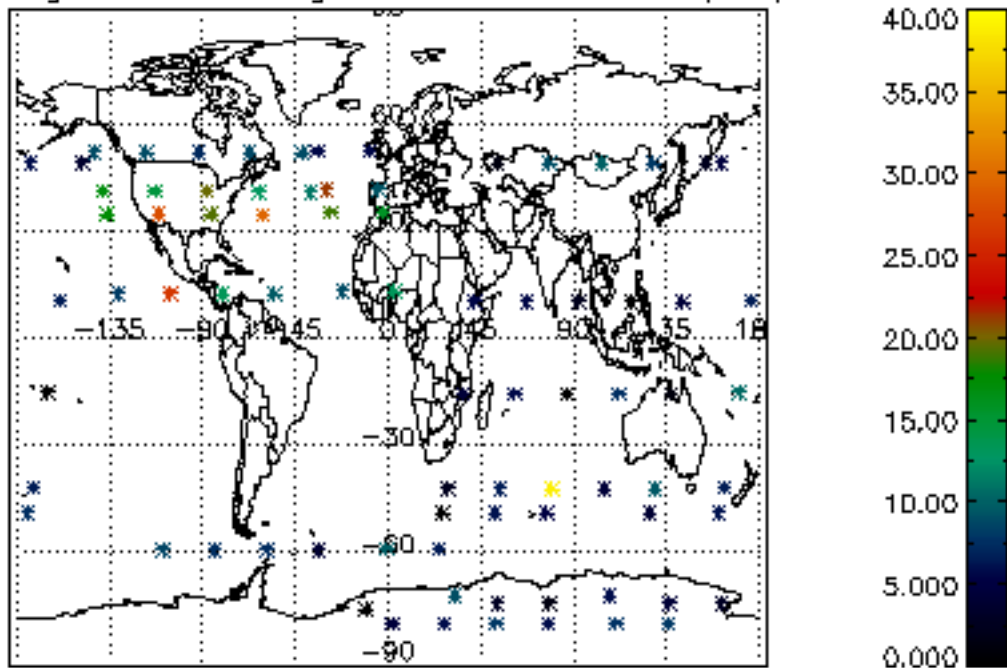
Percentage of cosmic ray hits per profile



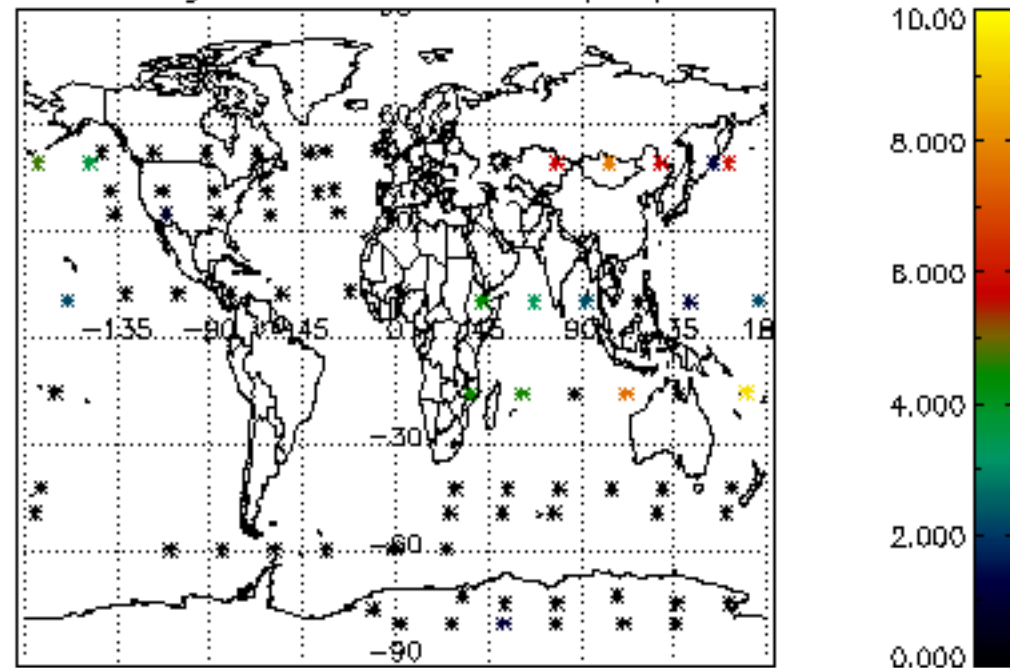
Percentage of datation errors per profile



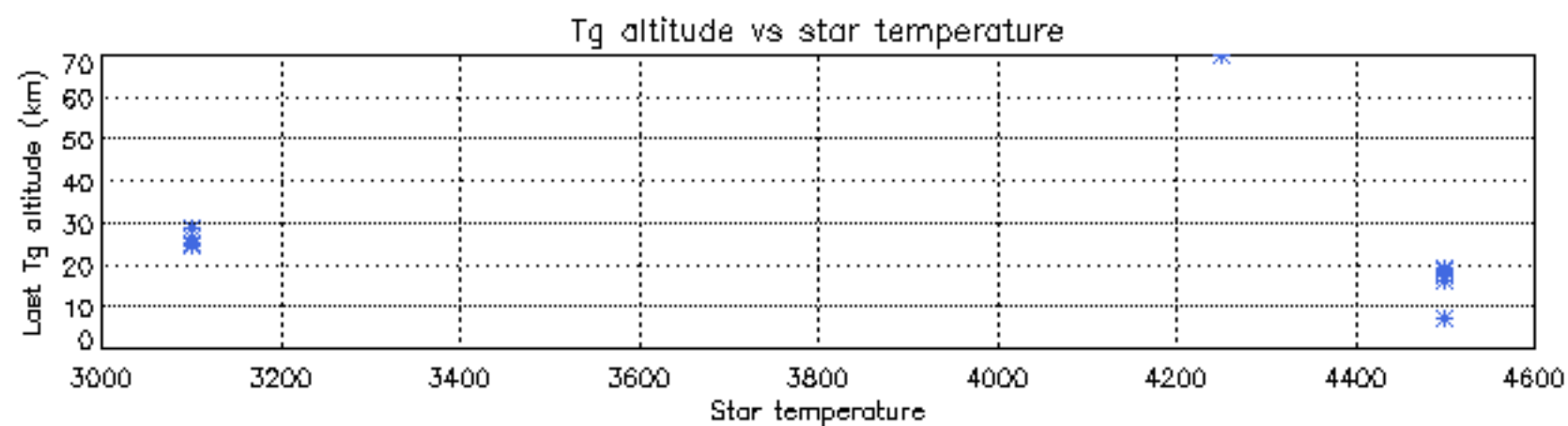
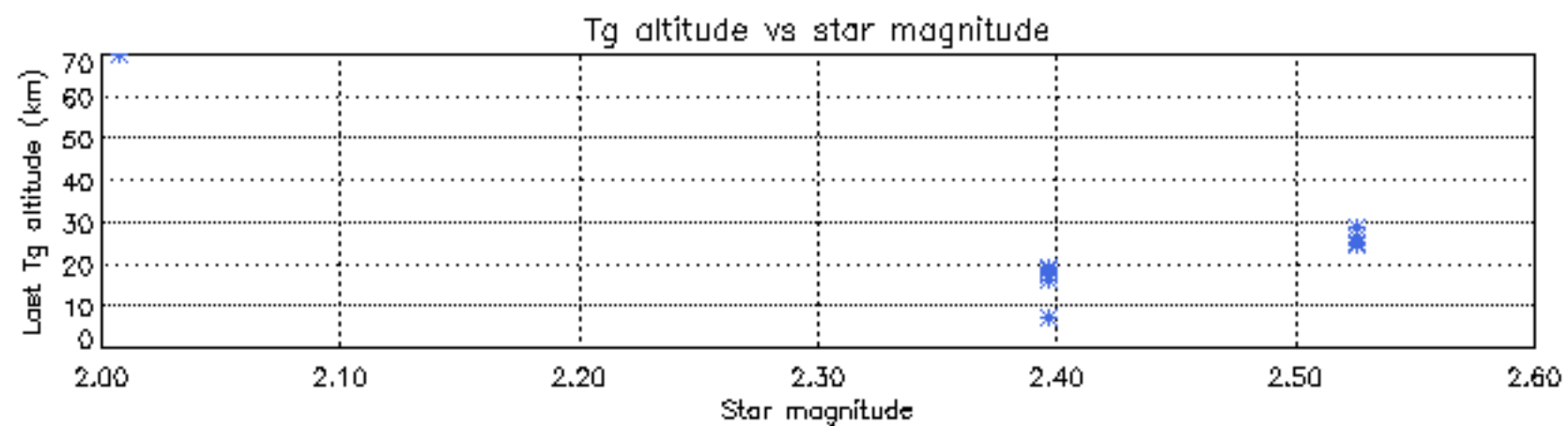
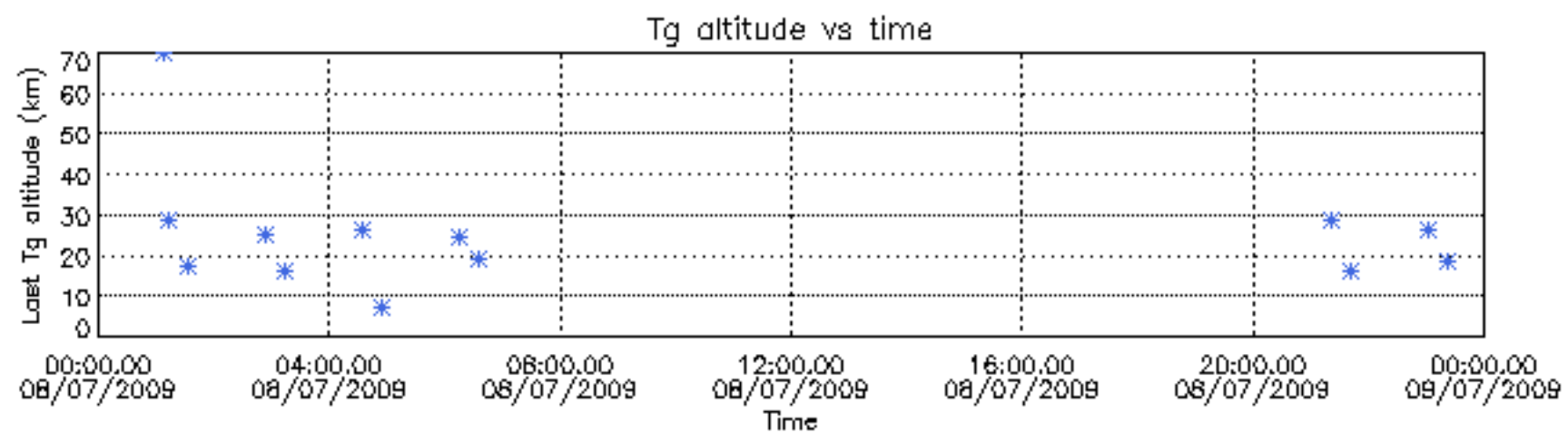
Percentage of star falling outside central band per profile



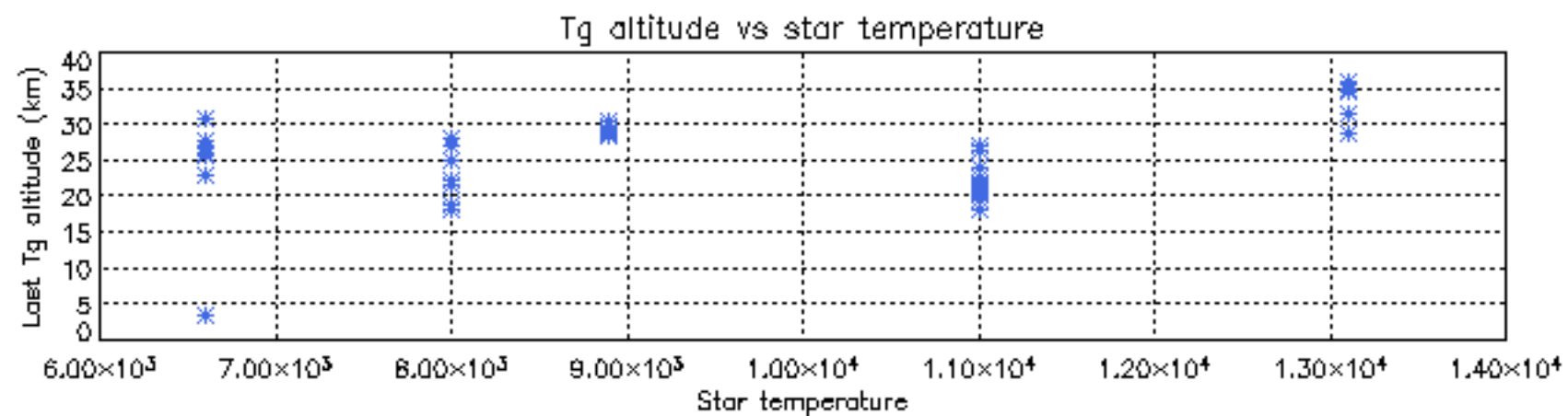
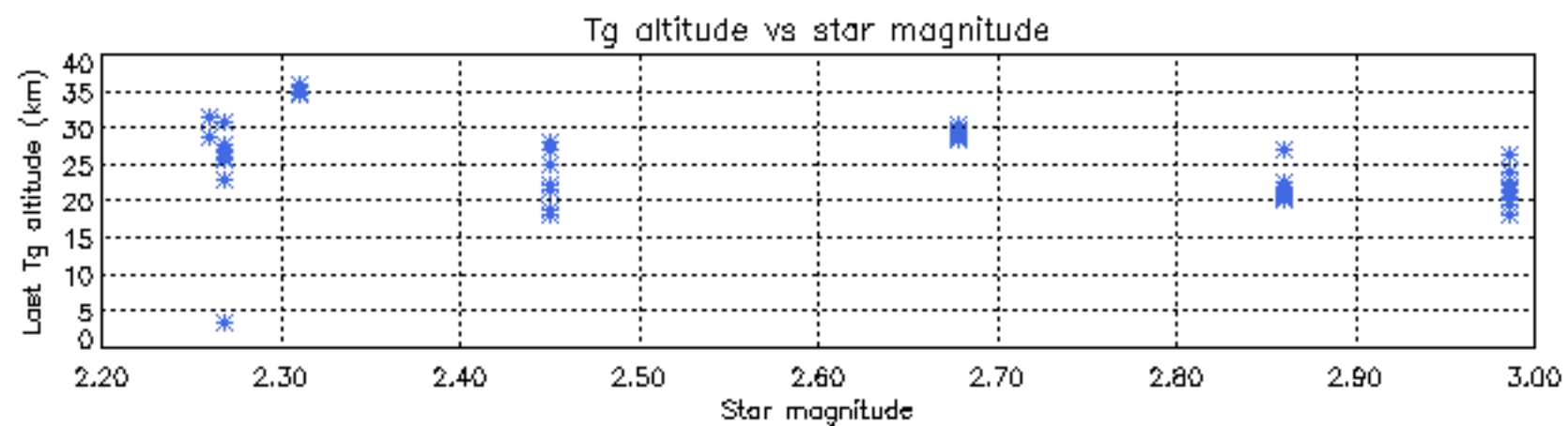
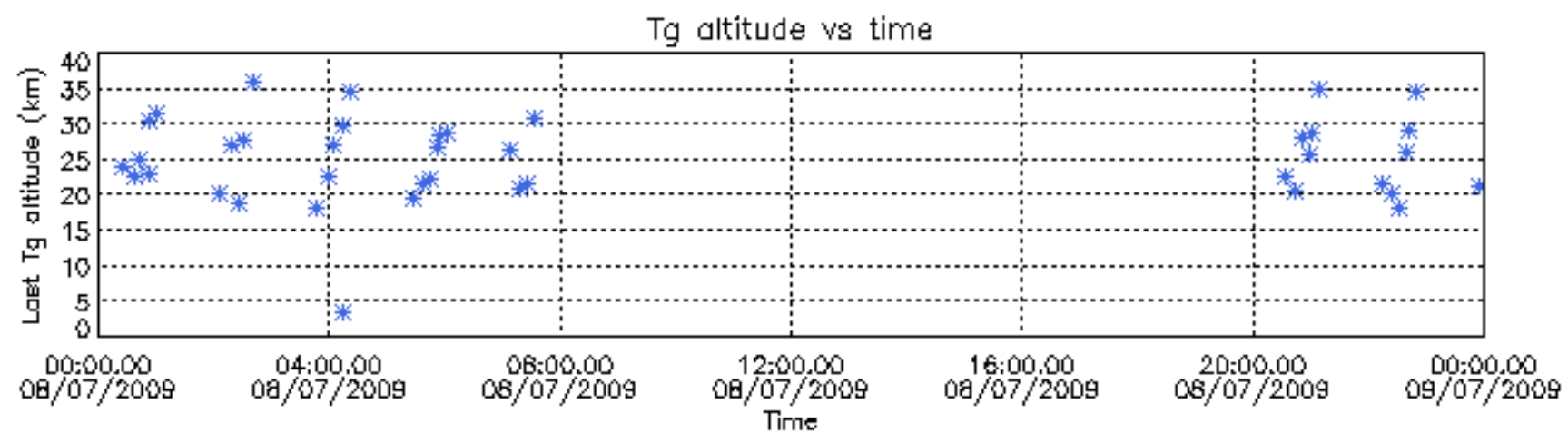
Percentage of saturation errors per profile

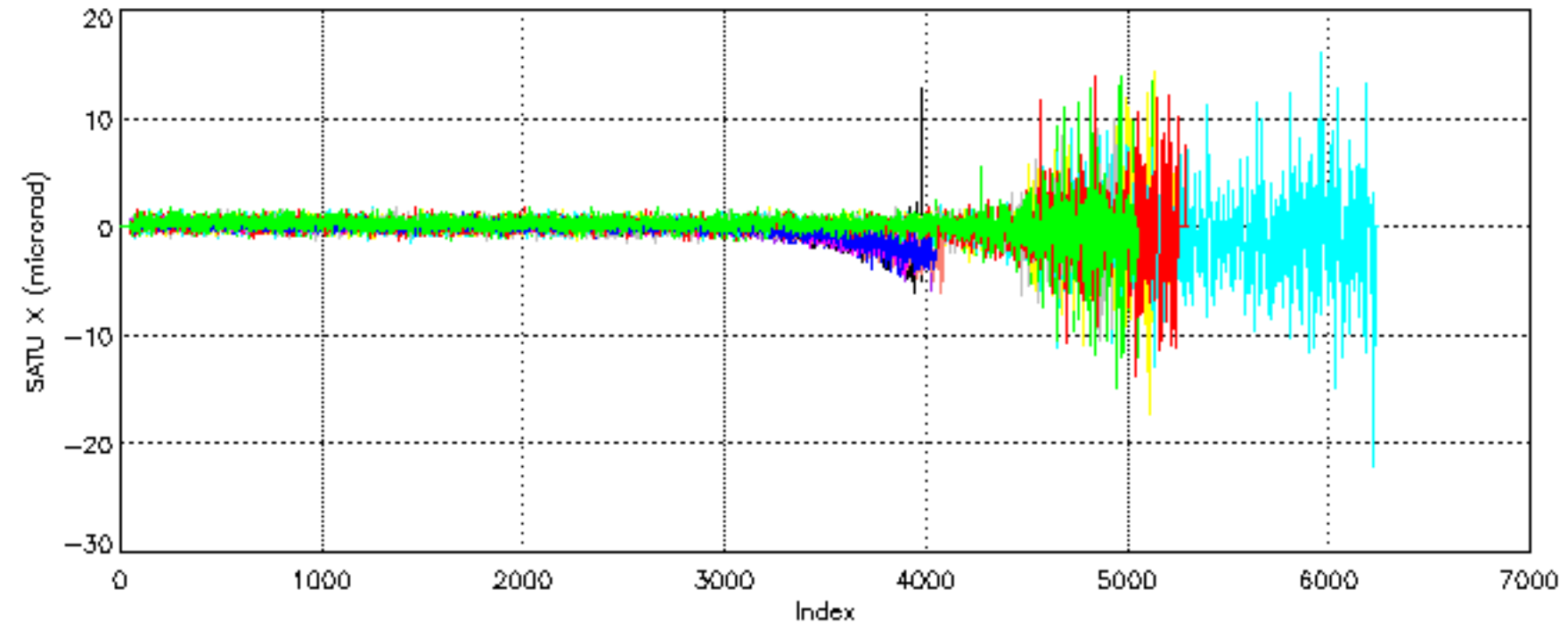


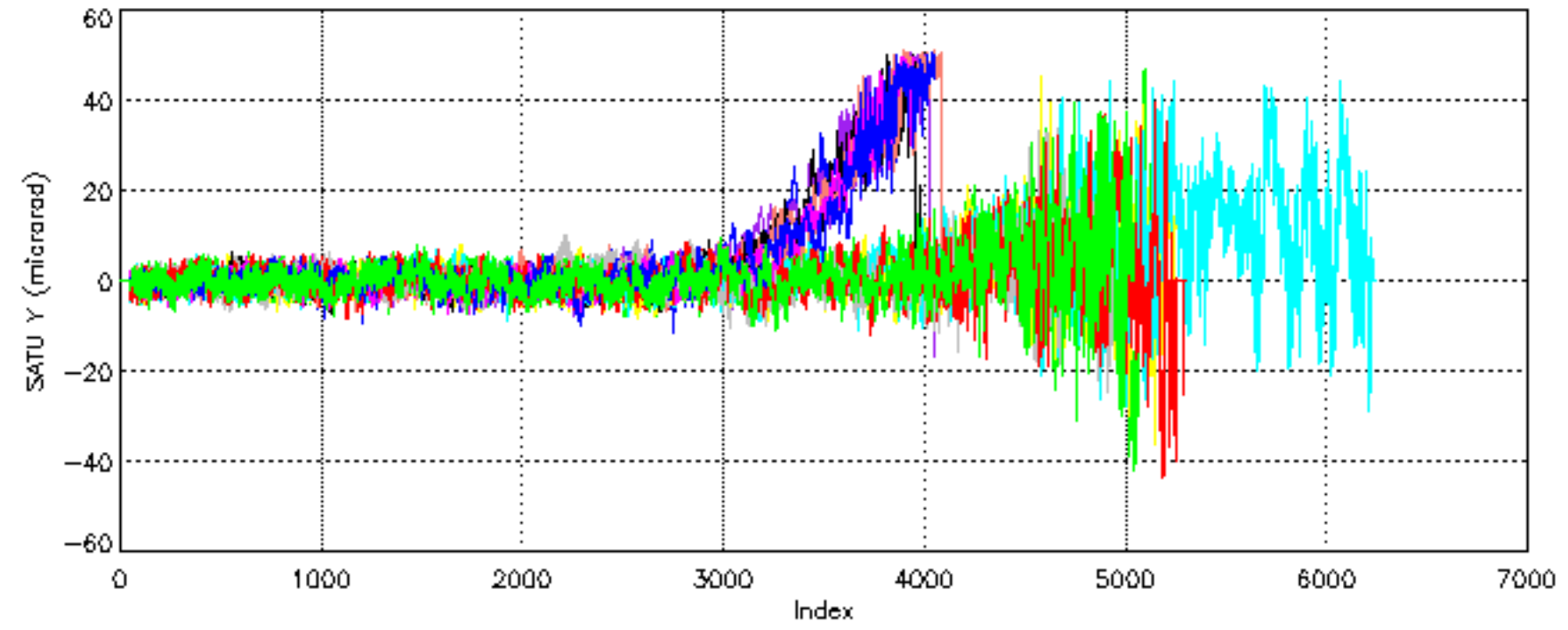
Tangent altitude at which the star is lost

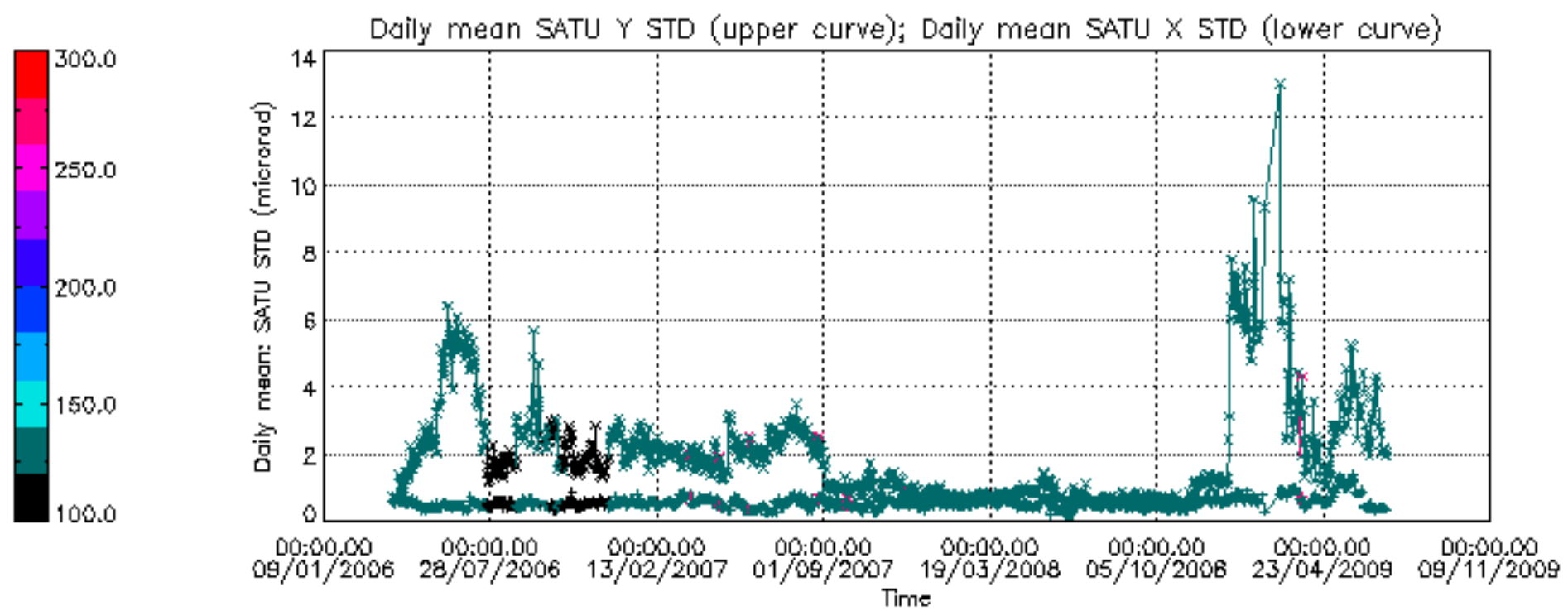


Tangent altitude at which the star is lost









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 3; 501.4; 02-JUL-2009 01:26:10; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38362
 4; 616.8; 02-JUL-2009 01:28:06; Dark ; 59.0; 31; Alp Gru ; 1.73; 15200;occ; 118; 0;38362
 5; 792.6; 02-JUL-2009 01:31:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38362
 6; 1483.7; 02-JUL-2009 01:42:33; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38362
 7; 2224.2; 02-JUL-2009 01:54:53; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38362
 8; 2644.5; 02-JUL-2009 02:01:53; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;38362
 9; 2909.6; 02-JUL-2009 02:06:18; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38362
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 3; 488.0; 01-JUL-2009 01:57:34; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;38348
 4; 604.2; 01-JUL-2009 01:59:30; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38348
 5; 777.8; 01-JUL-2009 02:02:24; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38348
 6; 1481.2; 01-JUL-2009 02:14:07; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38348
 7; 2231.3; 01-JUL-2009 02:26:37; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38348
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 9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348
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 8; 489.9; 01-JUL-2009 05:18:48; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38350
 9; 606.1; 01-JUL-2009 05:20:44; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38350
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14; 2920.4; 01-JUL-2009 05:59:18; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38350
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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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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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9; 4687.2; 02-JUL-2009 12:39:32; Dark ; 40.0; 50; 13Alp Ari ; 2.01; 4250;occ; 80; 0;38368

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13; 6685.2; 04-JUL-2009 15:30:47; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38398

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6; 2198.2; 06-JUL-2009 01:28:35; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38419
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5; 850.8; 06-JUL-2009 02:46:43; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38420
6; 2197.9; 06-JUL-2009 03:09:10; Bright; 47.5; 168; 17Zet Aql ; 2.99; 11000;occ; 95; 0;38420
7; 2620.5; 06-JUL-2009 03:16:13; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;38420
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8; 178.4; 06-JUL-2009 07:37:19; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;38423
9; 559.3; 06-JUL-2009 07:43:40; Dark ; 65.0; 63; Bet Gru ; 2.15; 2800;occ; 130; 0;38423
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9; 4708.7; 06-JUL-2009 10:33:25; Dark ; 45.0; 50; 13Alp Ari ; 2.01; 4250;occ; 90; 0;38424
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 3; 2860.1; 06-JUL-2009 11:43:12; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38425
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13; 6710.7; 06-JUL-2009 17:49:11; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38428
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 9; 4717.4; 07-JUL-2009 21:46:08; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38445
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 5; 875.9; 08-JUL-2009 00:03:18; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38447
 6; 2188.0; 08-JUL-2009 00:25:10; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;38447
 7; 2844.6; 08-JUL-2009 00:36:07; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38447
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 3; 3284.4; 07-JUL-2009 07:57:28; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38437
 4; 3734.6; 07-JUL-2009 08:04:58; Bright; 64.5; 74; 11Bet Cas ; 2.27; 6600;occ; 129; 0;38437
 5; 3848.1; 07-JUL-2009 08:06:51; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38437
 6; 4259.0; 07-JUL-2009 08:13:42; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38437
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 9; 5021.3; 07-JUL-2009 08:26:25; Dark ; 39.5; 94; 92Alp Cet ; 2.53; 3100;occ; 79; 0;38437
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 13; 6718.0; 07-JUL-2009 08:54:41; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38437
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 4; 3734.0; 07-JUL-2009 09:45:33; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38438
 5; 3847.9; 07-JUL-2009 09:47:27; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38438
 6; 4258.8; 07-JUL-2009 09:54:18; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;38438
 7; 4431.1; 07-JUL-2009 09:57:10; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38438
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 9; 5021.8; 07-JUL-2009 10:07:01; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;38438
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13; 6718.8; 07-JUL-2009 10:35:18; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38438
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 5; 4258.7; 07-JUL-2009 11:34:54; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38439
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 7; 4431.4; 07-JUL-2009 16:39:34; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38442
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6; 4044.9; 13-JUL-2009 13:23:26; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;38526

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5; 3670.7; 14-JUL-2009 07:43:47; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38537
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7; 4043.6; 14-JUL-2009 07:50:00; Bright; 60.0; 160; 23Gam Per ; 2.93; 4700;occ; 120; 0;38537
8; 4122.8; 14-JUL-2009 07:51:19; Bright; 59.0; 35; 33Alp Per ; 1.79; 6250;occ; 118; 0;38537
9; 4243.6; 14-JUL-2009 07:53:20; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38537
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14; 6796.4; 14-JUL-2009 08:35:53; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;38537
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7; 4042.8; 14-JUL-2009 14:32:23; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;38541
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9; 4242.9; 14-JUL-2009 14:35:43; Bright; 31.0; 73; 57Gam1And ; 2.26; 13100;occ; 62; 0;38541
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 7; 670.9; 15-JUL-2009 03:00:58; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38549
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 9; 961.1; 15-JUL-2009 03:05:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38549
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 11; 2782.6; 15-JUL-2009 03:36:10; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38549
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 6; -944.0; 15-JUL-2009 04:14:39; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;38549
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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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 13; 2782.0; 15-JUL-2009 05:16:45; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38550
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 4; -1914.7; 15-JUL-2009 05:39:05; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;38550
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9; 673.0; 15-JUL-2009 06:22:12; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38551
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13; 2781.3; 15-JUL-2009 06:57:20; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38551
14; 2925.5; 15-JUL-2009 06:59:45; Bright; 49.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 99; 0;38551
15; 3213.6; 15-JUL-2009 07:04:33; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38551
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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
6; -942.6; 15-JUL-2009 07:35:53; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;38551
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3; 2924.6; 15-JUL-2009 08:40:20; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38552
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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9; 4297.1; 15-JUL-2009 09:03:12; Bright; 43.0; 79; 26Bet Per ; 2.31; 13100;occ; 86; 0;38552
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11; 5441.1; 15-JUL-2009 09:22:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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13; 6711.2; 15-JUL-2009 11:24:02; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38553
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5; 3659.0; 15-JUL-2009 12:13:46; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38554
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8; 4121.1; 15-JUL-2009 12:21:28; Bright; 51.5; 35; 33Alp Per ; 1.79; 6250;occ; 103; 0;38554
9; 4297.0; 15-JUL-2009 12:24:24; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;38554
10; 5095.6; 15-JUL-2009 12:37:43; Dark ; 68.0; 94; 92Alp Cet ; 2.53; 3100;occ; 136; 0;38554
11; 5442.9; 15-JUL-2009 12:43:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38554
12; 6362.5; 15-JUL-2009 12:58:49; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38554
13; 6712.1; 15-JUL-2009 13:04:39; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38554

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3; 2921.9; 15-JUL-2009 13:42:05; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38555
4; 3658.5; 15-JUL-2009 13:54:21; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38555
5; 3800.5; 15-JUL-2009 13:56:43; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;38555
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13; 6809.5; 15-JUL-2009 14:46:52; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38555
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4; 2918.6; 15-JUL-2009 20:24:25; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38559
5; 3209.0; 15-JUL-2009 20:29:16; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38559
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5; 776.3; 15-JUL-2009 21:29:19; Dark ; 58.5; 31; Alp Gru ; 1.73; 15200;occ; 117; 0;38560
6; 969.2; 15-JUL-2009 21:32:32; Dark ; 53.0; 172; Gam Gru ; 3.00; 13100;occ; 106; 0;38560
7; 2105.0; 15-JUL-2009 21:51:28; Bright; 48.5; 11; 53Alp Aql ; 0.76; 8000;occ; 97; 0;38560
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6; 3645.3; 16-JUL-2009 21:45:31; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 0;38574
7; 3761.5; 16-JUL-2009 21:47:27; Bright; 53.5; 68; 18Alp Cas ; 2.22; 4500;occ; 107; 0;38574

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8; 695.2; 17-JUL-2009 03:38:44; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;38578
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12; 2767.7; 17-JUL-2009 04:13:17; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38578
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4; -1917.4; 17-JUL-2009 04:35:48; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;38578
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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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6; 2153.9; 17-JUL-2009 22:29:38; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;38589
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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
10; 4472.6; 17-JUL-2009 08:02:54; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38580
11; 4628.9; 17-JUL-2009 08:05:30; Dark ; 43.0; 146; 25Eta Tau ; 2.87; 15200;occ; 86; 0;38580
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4; 3196.3; 17-JUL-2009 09:22:13; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38581
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6; 3757.1; 17-JUL-2009 09:31:34; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38581
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 15; 6736.7; 17-JUL-2009 15:23:01; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38584
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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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 3; 2896.2; 17-JUL-2009 17:40:13; Bright; 48.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 97; 0;38586
 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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 16; 6831.7; 17-JUL-2009 18:45:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38586
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 3; 705.6; 18-JUL-2009 01:26:42; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38591
 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
 9; 3190.7; 18-JUL-2009 02:08:07; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38591
 10; 3633.0; 18-JUL-2009 02:15:29; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38591
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4;-1919.1; 18-JUL-2009 04:04:09; Bright; 42.5; 35; 33Alp Per ; 1.79; 6250;occ; 85; 0;38592
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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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10; 707.4; 18-JUL-2009 04:47:56; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38593
11; 799.7; 18-JUL-2009 04:49:28; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38593
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 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
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 11; 4662.1; 25-JUL-2009 15:37:18; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38699
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 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
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 17; 6904.7; 25-JUL-2009 16:14:41; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38699
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 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
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 9; 4287.7; 25-JUL-2009 17:11:40; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38700
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 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
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 16; 6530.0; 25-JUL-2009 17:49:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38700
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 13; 4757.8; 25-JUL-2009 19:00:06; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38701
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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
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8; -1276.4; 26-JUL-2009 03:23:07; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;38706
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13; 5389.7; 27-JUL-2009 09:44:24; Dark ; 51.5; 165; 34Gam Eri ; 2.95; 3200;occ; 103; 0;38724
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17; 6919.2; 27-JUL-2009 10:09:54; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;38724
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3; 2800.9; 27-JUL-2009 10:41:52; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38725
4; 3120.9; 27-JUL-2009 10:47:12; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38725
5; 3531.8; 27-JUL-2009 10:54:02; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38725
6; 3640.8; 27-JUL-2009 10:55:51; Bright; 49.5; 76; 27Gam Cas ; 2.30; 30000;occ; 99; 0;38725
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8; 4094.7; 27-JUL-2009 11:03:25; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38725
9; 4284.7; 27-JUL-2009 11:06:35; Bright; 56.0; 79; 26Bet Per ; 2.31; 13100;occ; 112; 0;38725
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11; 4670.3; 27-JUL-2009 11:13:01; Dark ; 53.5; 146; 25Eta Tau ; 2.87; 15200;occ; 107; 0;38725
12; 4765.9; 27-JUL-2009 11:14:36; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;38725
13; 5390.5; 27-JUL-2009 11:25:01; Dark ; 52.0; 165; 34Gam Eri ; 2.95; 3200;occ; 104; 0;38725
14; 5636.9; 27-JUL-2009 11:29:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38725
15; 5951.9; 27-JUL-2009 11:34:23; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38725
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
6; 3640.2; 27-JUL-2009 12:36:27; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38726
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
 13; 5391.2; 27-JUL-2009 13:05:38; Dark ; 51.0; 165; 34Gam Eri ; 2.95; 3200;occ; 102; 0;38726
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 16; 6559.2; 27-JUL-2009 13:25:06; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38726
 17; 6920.5; 27-JUL-2009 13:31:07; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38726
 18; 7111.4; 27-JUL-2009 13:34:18; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38726

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 3; 2799.2; 27-JUL-2009 15:43:37; Bright; 40.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 81; 0;38728
 4; 3119.4; 27-JUL-2009 15:48:58; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38728
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 9; 4284.4; 27-JUL-2009 16:08:23; Bright; 56.5; 79; 26Bet Per ; 2.31; 13100;occ; 113; 0;38728
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 11; 4671.5; 27-JUL-2009 16:14:50; Dark ; 54.0; 146; 25Eta Tau ; 2.87; 15200;occ; 108; 0;38728
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 13; 5392.9; 27-JUL-2009 16:26:51; Dark ; 53.0; 165; 34Gam Eri ; 2.95; 3200;occ; 106; 0;38728
 14; 5641.3; 27-JUL-2009 16:31:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38728
 15; 5955.0; 27-JUL-2009 16:36:13; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38728
 16; 6561.5; 27-JUL-2009 16:46:20; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38728
 17; 6921.6; 27-JUL-2009 16:52:20; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;38728
 18; 7112.8; 27-JUL-2009 16:55:31; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;38728

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 3; 2798.6; 27-JUL-2009 17:24:13; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38729
 4; 3119.1; 27-JUL-2009 17:29:33; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;38729
 5; 3528.7; 27-JUL-2009 17:36:23; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38729
 6; 3638.2; 27-JUL-2009 17:38:13; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38729
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 8; 4093.9; 27-JUL-2009 17:45:48; Bright; 66.0; 35; 33Alp Per ; 1.79; 6250;occ; 132; 0;38729
 9; 4284.4; 27-JUL-2009 17:48:59; Bright; 54.5; 79; 26Bet Per ; 2.31; 13100;occ; 109; 0;38729
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 11; 4671.9; 27-JUL-2009 17:55:26; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38729
 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
 14; 5642.7; 27-JUL-2009 18:11:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
 17; 6922.3; 27-JUL-2009 18:32:57; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38729

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 3; 2065.4; 27-JUL-2009 18:52:36; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;38730
 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
 8; 3527.9; 27-JUL-2009 19:16:58; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38730
 9; 3637.6; 27-JUL-2009 19:18:48; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38730
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 11; 4093.8; 27-JUL-2009 19:26:24; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38730
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 19; 6563.6; 27-JUL-2009 20:07:34; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38730
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 4; 530.9; 28-JUL-2009 01:09:25; Dark ; 63.0; 84; Alp Phe ; 2.40; 4500;occ; 126; 0;38734
 5; 888.3; 28-JUL-2009 01:15:22; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38734
 6; 1079.4; 28-JUL-2009 01:18:33; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38734
 7; 2064.8; 28-JUL-2009 01:34:59; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;38734
 8; 2613.0; 28-JUL-2009 01:44:07; Bright; 48.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 96; 0;38734
 9; 2708.7; 28-JUL-2009 01:45:43; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38734
 10; 2795.6; 28-JUL-2009 01:47:09; Bright; 43.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 87; 0;38734
 11; 3116.6; 28-JUL-2009 01:52:30; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38734
 12; 3524.7; 28-JUL-2009 01:59:19; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38734
 13; 3635.0; 28-JUL-2009 02:01:09; Bright; 65.0; 76; 27Gam Cas ; 2.30; 30000;occ; 130; 0;38734
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 16; 4283.5; 28-JUL-2009 02:11:57; Bright; 54.5; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;38734
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 3; -75.9; 28-JUL-2009 02:39:54; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38734
 4; 532.1; 28-JUL-2009 02:50:02; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38735
 5; 889.0; 28-JUL-2009 02:55:59; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38735
 6; 1079.7; 28-JUL-2009 02:59:09; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38735
 7; 2064.8; 28-JUL-2009 03:15:35; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38735
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 11; 3116.1; 28-JUL-2009 03:33:06; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38735
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 4; -1943.4; 28-JUL-2009 03:49:22; Bright; 49.0; 35; 33Alp Per ; 1.79; 6250;occ; 98; 0;38735
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090731_180748_000060672081_00156_38787_4620.N1
 1; 929.5; 31-JUL-2009 18:07:48; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 24;38787
 2; 1106.1; 31-JUL-2009 18:10:44; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;38787
 3; 1569.8; 31-JUL-2009 18:18:28; Bright; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;38787
 4; 1824.9; 31-JUL-2009 18:22:43; Bright; 47.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 94; 0;38787
 5; 2581.7; 31-JUL-2009 18:35:20; Bright; 55.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 111; 0;38787
 6; 2768.3; 31-JUL-2009 18:38:27; Bright; 42.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 84; 0;38787
 7; 3092.7; 31-JUL-2009 18:43:51; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38787
 8; 3482.3; 31-JUL-2009 18:50:21; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;38787
 9; 3599.6; 31-JUL-2009 18:52:18; Bright; 63.5; 76; 27Gam Cas ; 2.30; 30000;occ; 127; 0;38787
10; 3980.7; 31-JUL-2009 18:58:39; Bright; 69.0; 160; 23Gam Per ; 2.93; 4700;occ; 138; 0;38787
11; 4079.7; 31-JUL-2009 19:00:18; Bright; 51.5; 35; 33Alp Per ; 1.79; 6250;occ; 103; 0;38787
12; 4315.9; 31-JUL-2009 19:04:14; Bright; 49.0; 149; 45Eps Per ; 2.89; 30000;occ; 98; 0;38787
13; 4501.1; 31-JUL-2009 19:07:19; Dark ; 52.5; 150; 44Zet Per ; 2.89; 28000;occ; 105; 0;38787
14; 4788.2; 31-JUL-2009 19:12:07; Dark ; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;38787
15; 5286.0; 31-JUL-2009 19:20:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38787
16; 5444.3; 31-JUL-2009 19:23:03; Dark ; 53.0; 165; 34Gam Eri ; 2.95; 3200;occ; 106; 0;38787
17; 6009.2; 31-JUL-2009 19:32:28; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;38787
18; 6625.8; 31-JUL-2009 19:42:44; Dark ; 57.5; 84; Alp Phe ; 2.40; 4500;occ; 115; 0;38787
19; 6954.0; 31-JUL-2009 19:48:12; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;38787

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