

# GOMOS Daily Report 24-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](#)

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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	28JUL2009 04:56:37
Data source version	GOMOS/5.00
Start time of products	24JUL2009 00:00:04
Stop time of products	24JUL2009 23:58:17
Store outputs in DB	Yes
Nb of level 1b prods	87
Nb of prods with errors	0

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

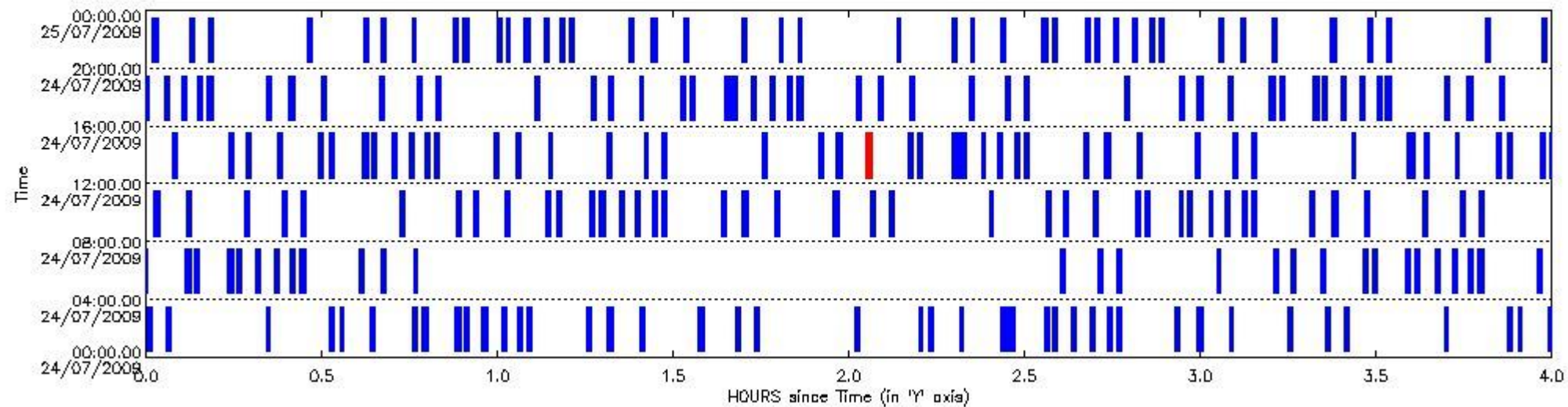
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
24-JUL-2009 14:02:58	5AlpCep	89	38684

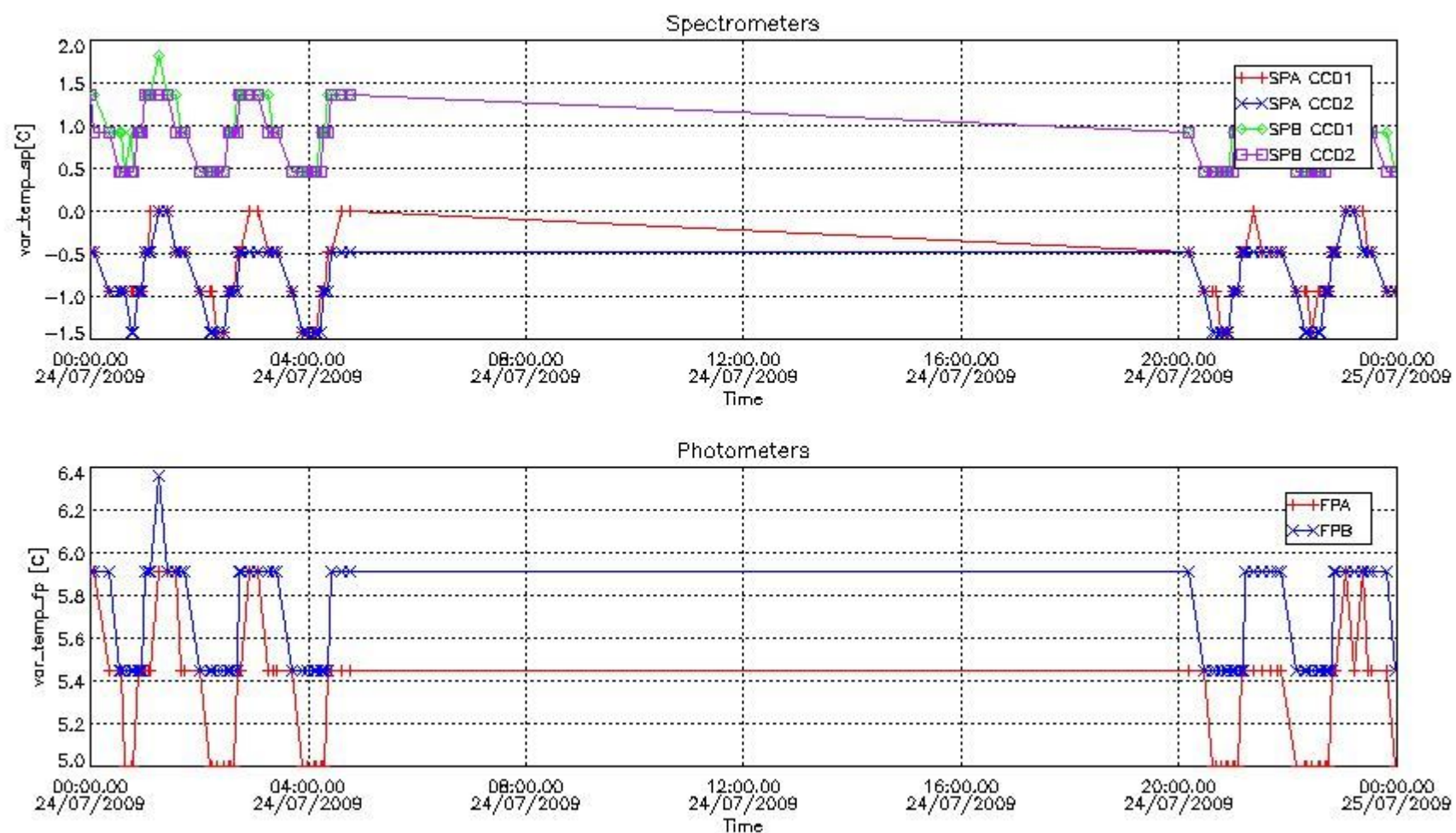
### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090724_000004_000000462081_00045_38676_0151.N1	24-JUL-2009 00:00:04	Straylight	46.000	31	Alp Gru	1.7340	15200.	92	38676	No
2	GOM_TRA_1PNPDE20090724_000317_000000482081_00045_38676_0152.N1	24-JUL-2009 00:03:17	Straylight	47.500	172	Gam Gru	3.0030	13100.	95	38676	No
3	GOM_TRA_1PNPDE20090724_002024_000000412081_00045_38676_0153.N1	24-JUL-2009 00:20:24	Bright	40.500	11	53Alp Aql	0.76500	8000.0	81	38676	No
4	GOM_TRA_1PNPDE20090724_003117_000000422081_00045_38676_0154.N1	24-JUL-2009 00:31:17	Bright	41.500	144	18Del Cyg	2.8600	11000.	83	38676	No
5	GOM_TRA_1PNPDE20090724_003301_000000452081_00045_38676_0155.N1	24-JUL-2009 00:33:01	Bright	45.000	19	50Alp Cyg	1.2460	10500.	90	38676	No
6	GOM_TRA_1PNPDE20090724_003815_000000392081_00045_38676_0156.N1	24-JUL-2009 00:38:15	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	38676	No
7	GOM_TRA_1PNPDE20090724_004520_000000522081_00045_38676_0157.N1	24-JUL-2009 00:45:20	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	38676	No
8	GOM_TRA_1PNPDE20090724_004702_000000652081_00045_38676_0158.N1	24-JUL-2009 00:47:02	Bright	64.500	76	27Gam Cas	2.3000	30000.	129	38676	No
9	GOM_TRA_1PNPDE20090724_005245_000000582081_00045_38676_0159.N1	24-JUL-2009 00:52:45	Bright	57.500	160	23Gam Per	2.9300	4700.0	115	38676	No
10	GOM_TRA_1PNPDE20090724_005414_000000442081_00045_38676_0160.N1	24-JUL-2009 00:54:14	Bright	44.000	35	33Alp Per	1.7950	6250.0	88	38676	No

11	GOM_TRA_1PNPDE20090724_005720_00000522081_00045_38676_0161.N1	24-JUL-2009 00:57:20	Bright	51.500	79	26Bet Per	2.3100	13100.	103	38676	No
12	GOM_TRA_1PNPDE20090724_010035_000000492081_00045_38676_0162.N1	24-JUL-2009 01:00:35	Tw_i_and_stray	48.500	150	44Zet Per	2.8900	28000.	97	38676	No
13	GOM_TRA_1PNPDE20090724_010325_000000492081_00045_38676_0163.N1	24-JUL-2009 01:03:25	Dark	49.000	146	25Eta Tau	2.8730	15200.	98	38676	No
14	GOM_TRA_1PNPDE20090724_010500_000000502081_00045_38676_0164.N1	24-JUL-2009 01:05:00	Dark	49.500	13	87Alp Tau	0.86700	3800.0	99	38676	No
15	GOM_TRA_1PNPDE20090724_011504_000000482081_00045_38676_0132.N1	24-JUL-2009 01:15:04	Dark	47.500	165	34Gam Eri	2.9500	3200.0	95	38676	No
16	GOM_TRA_1PNPDE20090724_012420_000000442081_00045_38676_0133.N1	24-JUL-2009 01:24:20	Dark	43.500	157	The1Eri	2.9060	9300.0	87	38676	No
17	GOM_TRA_1PNPDE20090724_013413_000000682081_00046_38677_0134.N1	24-JUL-2009 01:34:13	Straylight	67.500	84	Alp Phe	2.3970	4500.0	135	38677	No
18	GOM_TRA_1PNPDE20090724_014041_000000462081_00046_38677_0135.N1	24-JUL-2009 01:40:41	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	38677	No
19	GOM_TRA_1PNPDE20090724_014353_000000482081_00046_38677_0136.N1	24-JUL-2009 01:43:53	Straylight	48.000	172	Gam Gru	3.0030	13100.	96	38677	No
20	GOM_TRA_1PNPDE20090724_020100_000000442081_00046_38677_0137.N1	24-JUL-2009 02:01:00	Bright	43.500	11	53Alp Aql	0.76500	8000.0	87	38677	No
21	GOM_TRA_1PNPDE20090724_021152_000000392081_00046_38677_0138.N1	24-JUL-2009 02:11:52	Bright	39.000	144	18Del Cyg	2.8600	11000.	78	38677	No
22	GOM_TRA_1PNPDE20090724_021336_000000442081_00046_38677_0139.N1	24-JUL-2009 02:13:36	Bright	43.500	19	50Alp Cyg	1.2460	10500.	87	38677	No
23	GOM_TRA_1PNPDE20090724_021850_000000432081_00046_38677_0140.N1	24-JUL-2009 02:18:50	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	38677	No
24	GOM_TRA_1PNPDE20090724_022555_000000752081_00046_38677_0141.N1	24-JUL-2009 02:25:55	Bright	75.000	74	11Bet Cas	2.2680	6600.0	150	38677	No
25	GOM_TRA_1PNPDE20090724_022737_000000482081_00046_38677_0142.N1	24-JUL-2009 02:27:37	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	38677	No
26	GOM_TRA_1PNPDE20090724_023320_000000522081_00046_38677_0105.N1	24-JUL-2009 02:33:20	Bright	51.500	160	23Gam Per	2.9300	4700.0	103	38677	No
27	GOM_TRA_1PNPDE20090724_023450_000000442081_00046_38677_0106.N1	24-JUL-2009 02:34:50	Bright	43.500	35	33Alp Per	1.7950	6250.0	87	38677	No
28	GOM_TRA_1PNPDE20090724_023756_000000542081_00046_38677_0107.N1	24-JUL-2009 02:37:56	Bright	53.500	79	26Bet Per	2.3100	13100.	107	38677	No
29	GOM_TRA_1PNPDE20090724_024112_000000482081_00046_38677_0108.N1	24-JUL-2009 02:41:12	Tw_i_and_stray	47.500	150	44Zet Per	2.8900	28000.	95	38677	No
30	GOM_TRA_1PNPDE20090724_024401_000000502081_00046_38677_0109.N1	24-JUL-2009 02:44:01	Dark	50.000	146	25Eta Tau	2.8730	15200.	100	38677	No
31	GOM_TRA_1PNPDE20090724_024536_000000492081_00046_38677_0110.N1	24-JUL-2009 02:45:36	Dark	48.500	13	87Alp Tau	0.86700	3800.0	97	38677	No
32	GOM_TRA_1PNPDE20090724_025540_000000502081_00046_38677_0111.N1	24-JUL-2009 02:55:40	Dark	49.500	165	34Gam Eri	2.9500	3200.0	99	38677	No
33	GOM_TRA_1PNPDE20090724_030457_000000432081_00046_38677_0112.N1	24-JUL-2009 03:04:57	Dark	43.000	157	The1Eri	2.9060	9300.0	86	38677	No
34	GOM_TRA_1PNPDE20090724_031450_000000562081_00047_38678_0113.N1	24-JUL-2009 03:14:50	Straylight	55.500	84	Alp Phe	2.3970	4500.0	111	38678	No
35	GOM_TRA_1PNPDE20090724_032117_000000472081_00047_38678_0114.N1	24-JUL-2009 03:21:17	Straylight	47.000	31	Alp Gru	1.7340	15200.	94	38678	No
36	GOM_TRA_1PNPDE20090724_032430_000000482081_00047_38678_0115.N1	24-JUL-2009 03:24:30	Straylight	48.000	172	Gam Gru	3.0030	13100.	96	38678	No
37	GOM_TRA_1PNPDE20090724_034136_000000422081_00047_38678_0116.N1	24-JUL-2009 03:41:36	Bright	42.000	11	53Alp Aql	0.76500	8000.0	84	38678	No
38	GOM_TRA_1PNPDE20090724_035228_000000382081_00047_38678_0117.N1	24-JUL-2009 03:52:28	Bright	38.000	144	18Del Cyg	2.8600	11000.	76	38678	No
39	GOM_TRA_1PNPDE20090724_035411_000000462081_00047_38678_0118.N1	24-JUL-2009 03:54:11	Bright	45.500	19	50Alp Cyg	1.2460	10500.	91	38678	No
40	GOM_TRA_1PNPDE20090724_035926_000000432081_00047_38678_0119.N1	24-JUL-2009 03:59:26	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	38678	No
41	GOM_TRA_1PNPDE20090724_040630_000000752081_00047_38678_0120.N1	24-JUL-2009 04:06:30	Bright	75.000	74	11Bet Cas	2.2680	6600.0	150	38678	No
42	GOM_TRA_1PNPDE20090724_040812_000000482081_00047_38678_9971.N1	24-JUL-2009 04:08:12	Bright	48.000	76	27Gam Cas	2.3000	30000.	96	38678	No
43	GOM_TRA_1PNPDE20090724_041356_000000652081_00047_38678_9972.N1	24-JUL-2009 04:13:56	Bright	64.500	160	23Gam Per	2.9300	4700.0	129	38678	No
44	GOM_TRA_1PNPDE20090724_041526_000000462081_00047_38678_9973.N1	24-JUL-2009 04:15:26	Bright	46.000	35	33Alp Per	1.7950	6250.0	92	38678	No
45	GOM_TRA_1PNPDE20090724_041832_000000522081_00047_38678_9974.N1	24-JUL-2009 04:18:32	Bright	52.000	79	26Bet Per	2.3100	13100.	104	38678	No
46	GOM_TRA_1PNPDE20090724_042148_000000482081_00047_38678_9975.N1	24-JUL-2009 04:21:48	Tw_i_and_stray	48.000	150	44Zet Per	2.8900	28000.	96	38678	No
47	GOM_TRA_1PNPDE20090724_042437_000000492081_00047_38678_9976.N1	24-JUL-2009 04:24:37	Dark	49.000	146	25Eta Tau	2.8730	15200.	98	38678	No
48	GOM_TRA_1PNPDE20090724_042613_000000582081_00047_38678_9977.N1	24-JUL-2009 04:26:13	Dark	58.000	13	87Alp Tau	0.86700	3800.0	116	38678	No
49	GOM_TRA_1PNPDE20090724_043617_000000502081_00047_38678_9978.N1	24-JUL-2009 04:36:17	Dark	50.000	165	34Gam Eri	2.9500	3200.0	100	38678	No
50	GOM_TRA_1PNPDE20090724_044534_000000452081_00047_38678_9979.N1	24-JUL-2009 04:45:34	Dark	44.500	157	The1Eri	2.9060	9300.0	89	38678	No
51	GOM_TRA_1PNPDE20090724_201035_000000482081_00057_38688_4988.N1	24-JUL-2009 20:10:35	Straylight	47.500	172	Gam Gru	3.0030	13100.	95	38688	No
52	GOM_TRA_1PNPDE20090724_202733_000000422081_00057_38688_4989.N1	24-JUL-2009 20:27:33	Bright	42.000	11	53Alp Aql	0.76500	8000.0	84	38688	No
53	GOM_TRA_1PNPDE20090724_203706_000000482081_00057_38688_4990.N1	24-JUL-2009 20:37:06	Bright	47.500	92	53Eps Cyg	2.5000	4500.0	95	38688	No
54	GOM_TRA_1PNPDE20090724_204004_000000452081_00057_38688_4991.N1	24-JUL-2009 20:40:04	Bright	45.000	19	50Alp Cyg	1.2460	10500.	90	38688	No
55	GOM_TRA_1PNPDE20090724_204520_000000442081_00057_38688_4992.N1	24-JUL-2009 20:45:20	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38688	No
56	GOM_TRA_1PNPDE20090724_205222_000000492081_00057_38688_4993.N1	24-JUL-2009 20:52:22	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	38688	No
57	GOM_TRA_1PNPDE20090724_205406_000000662081_00057_38688_4994.N1	24-JUL-2009 20:54:06	Bright	66.000	76	27Gam Cas	2.3000	30000.	132	38688	No
58	GOM_TRA_1PNPDE20090724_205953_000000512081_00057_38688_4995.N1	24-JUL-2009 20:59:53	Bright	51.000	160	23Gam Per	2.9300	4700.0	102	38688	No
59	GOM_TRA_1PNPDE20090724_210123_000000472081_00057_38688_4996.N1	24-JUL-2009 21:01:23	Bright	46.500	35	33Alp Per	1.7950	6250.0	93	38688	No
60	GOM_TRA_1PNPDE20090724_210430_000000552081_00057_38688_4997.N1	24-JUL-2009 21:04:30	Bright	54.500	79	26Bet Per	2.3100	13100.	109	38688	No
61	GOM_TRA_1PNPDE20090724_210748_000000482081_00057_38688_4998.N1	24-JUL-2009 21:07:48	Tw_i_and_stray	48.000	150	44Zet Per	2.8900	28000.	96	38688	No
62	GOM_TRA_1PNPDE20090724_211040_000000492081_00057_38688_4999.N1	24-JUL-2009 21:10:40	Dark	49.000	146	25Eta Tau	2.8730	15200.	98	38688	No
63	GOM_TRA_1PNPDE20090724_211215_000000432081_00057_38688_5000.N1	24-JUL-2009 21:12:15	Dark	42.500	13	87Alp Tau	0.86700	3800.0	85	38688	No
64	GOM_TRA_1PNPDE20090724_212224_000000532081_00057_38688_4981.N1	24-JUL-2009 21:22:24	Dark	52.500	165	34Gam Eri	2.9500	3200.0	105	38688	No
65	GOM_TRA_1PNPDE20090724_213141_000000462081_00057_38688_4982.N1	24-JUL-2009 21:31:41	Dark	46.000	157	The1Eri	2.9060	9300.0	92	38688	No
66	GOM_TRA_1PNPDE20090724_214138_000000572081_00058_38689_4983.N1	24-JUL-2009 21:41:38	Straylight	56.500	84	Alp Phe	2.3970	4500.0	113	38689	No
67	GOM_TRA_1PNPDE20090724_214759_000000452081_00058_38689_4984.N1	24-JUL-2009 21:47:59	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	38689	No
68	GOM_TRA_1PNPDE20090724_215112_000000482081_00058_38689_4985.N1	24-JUL-2009 21:51:12	Straylight	48.000	172	Gam Gru	3.0030	13100.	96	38689	No
69	GOM_TRA_1PNPDE20090724_220809_000000412081_00058_38689_4986.N1	24-JUL-2009 22:08:09	Bright	41.000	11	53Alp Aql	0.76500	8000.0	82	38689	No

70	GOM_TRA_1PNPDE20090724_221741_000000492081_00058_38689_4987.N1	24-JUL-2009 22:17:41	Bright	49.000	92	53Eps Cyg	2.5000	4500.0	98	38689	No
71	GOM_TRA_1PNPDE20090724_222040_000000452081_00058_38689_4988.N1	24-JUL-2009 22:20:40	Bright	45.000	19	50Alp Cyg	1.2460	10500.	90	38689	No
72	GOM_TRA_1PNPDE20090724_222556_000000402081_00058_38689_4989.N1	24-JUL-2009 22:25:56	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38689	No
73	GOM_TRA_1PNPDE20090724_223257_000000512081_00058_38689_4990.N1	24-JUL-2009 22:32:57	Bright	51.000	74	11Bet Cas	2.2680	6600.0	102	38689	No
74	GOM_TRA_1PNPDE20090724_223441_000000472081_00058_38689_4991.N1	24-JUL-2009 22:34:41	Bright	46.500	76	27Gam Cas	2.3000	30000.	93	38689	No
75	GOM_TRA_1PNPDE20090724_224028_000000472081_00058_38689_4992.N1	24-JUL-2009 22:40:28	Bright	47.000	160	23Gam Per	2.9300	4700.0	94	38689	No
76	GOM_TRA_1PNPDE20090724_224159_000000472081_00058_38689_4993.N1	24-JUL-2009 22:41:59	Bright	46.500	35	33Alp Per	1.7950	6250.0	93	38689	No
77	GOM_TRA_1PNPDE20090724_224506_000000532081_00058_38689_4994.N1	24-JUL-2009 22:45:06	Bright	52.500	79	26Bet Per	2.3100	13100.	105	38689	No
78	GOM_TRA_1PNPDE20090724_224824_000000492081_00058_38689_4995.N1	24-JUL-2009 22:48:24	Twilight_and_stray	49.000	150	44Zet Per	2.8900	28000.	98	38689	No
79	GOM_TRA_1PNPDE20090724_225116_000000512081_00058_38689_4996.N1	24-JUL-2009 22:51:16	Dark	51.000	146	25Eta Tau	2.8730	15200.	102	38689	No
80	GOM_TRA_1PNPDE20090724_225251_000000462081_00058_38689_4997.N1	24-JUL-2009 22:52:51	Dark	46.000	13	87Alp Tau	0.86700	3800.0	92	38689	No
81	GOM_TRA_1PNPDE20090724_230300_000000502081_00058_38689_1981.N1	24-JUL-2009 23:03:00	Dark	49.500	165	34Gam Eri	2.9500	3200.0	99	38689	No
82	GOM_TRA_1PNPDE20090724_231218_000000432081_00058_38689_1982.N1	24-JUL-2009 23:12:18	Dark	43.000	157	The1Eri	2.9060	9300.0	86	38689	No
83	GOM_TRA_1PNPDE20090724_232215_000000562081_00059_38690_1983.N1	24-JUL-2009 23:22:15	Straylight	55.500	84	Alp Phe	2.3970	4500.0	111	38690	No
84	GOM_TRA_1PNPDE20090724_232836_000000452081_00059_38690_1984.N1	24-JUL-2009 23:28:36	Straylight	45.000	31	Alp Gru	1.7340	15200.	90	38690	No
85	GOM_TRA_1PNPDE20090724_233148_000000472081_00059_38690_1985.N1	24-JUL-2009 23:31:48	Straylight	47.000	172	Gam Gru	3.0030	13100.	94	38690	No
86	GOM_TRA_1PNPDE20090724_234844_000000402081_00059_38690_1986.N1	24-JUL-2009 23:48:44	Bright	39.500	11	53Alp Aql	0.76500	8000.0	79	38690	No
87	GOM_TRA_1PNPDE20090724_235817_000000442081_00059_38690_1987.N1	24-JUL-2009 23:58:17	Bright	44.000	92	53Eps Cyg	2.5000	4500.0	88	38690	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"

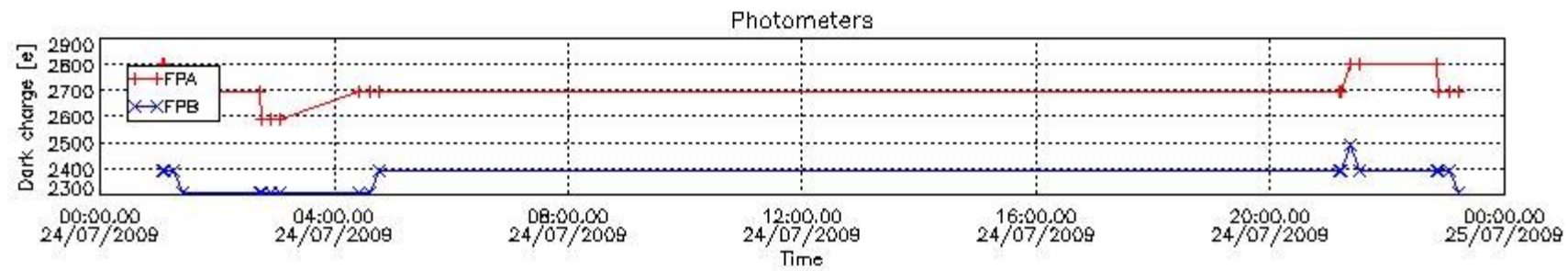
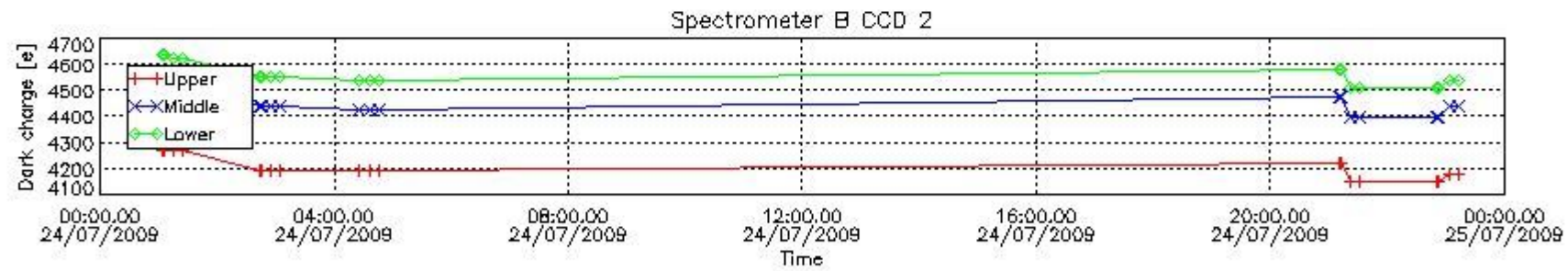
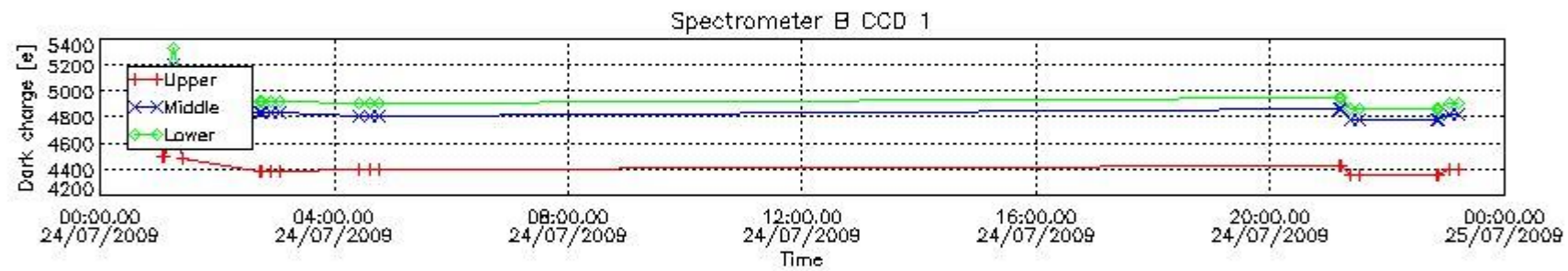
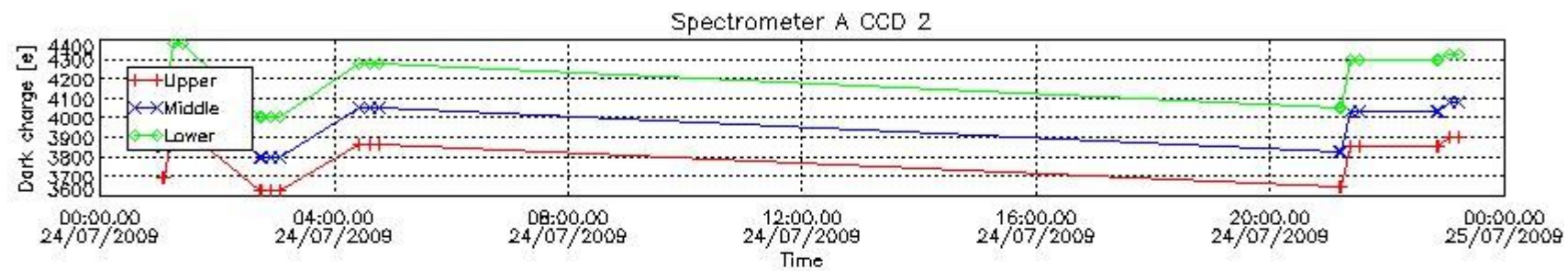
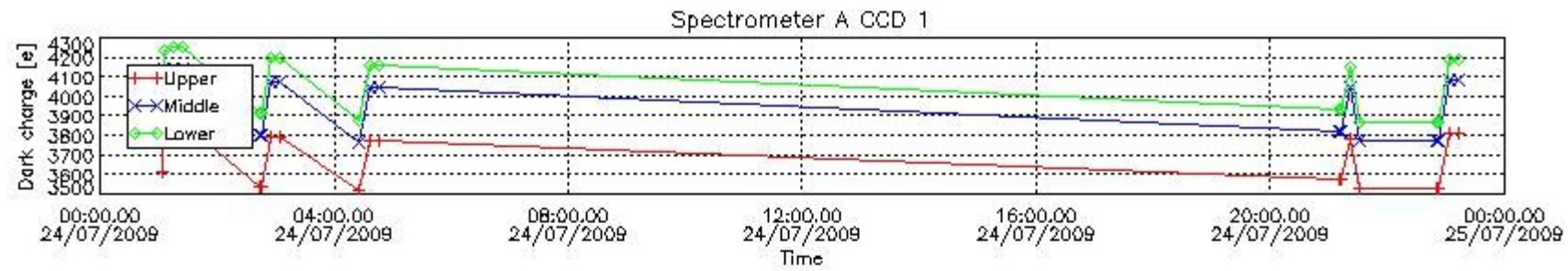
(a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

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_1PNPDE20090724_201035_000000482081_00057_38688_4988.N1	DC map used
GOM_TRA_1PNPDE20090724_202733_000000422081_00057_38688_4989.N1	DC map used
GOM_TRA_1PNPDE20090724_203706_000000482081_00057_38688_4990.N1	DC map used
GOM_TRA_1PNPDE20090724_204004_000000452081_00057_38688_4991.N1	DC map used
GOM_TRA_1PNPDE20090724_204520_000000442081_00057_38688_4992.N1	DC map used
GOM_TRA_1PNPDE20090724_205222_000000492081_00057_38688_4993.N1	DC map used
GOM_TRA_1PNPDE20090724_205406_000000662081_00057_38688_4994.N1	DC map used
GOM_TRA_1PNPDE20090724_205953_000000512081_00057_38688_4995.N1	DC map used
GOM_TRA_1PNPDE20090724_210123_000000472081_00057_38688_4996.N1	DC map used
GOM_TRA_1PNPDE20090724_210430_000000552081_00057_38688_4997.N1	DC map used
GOM_TRA_1PNPDE20090724_210748_000000482081_00057_38688_4998.N1	DC map used
GOM_TRA_1PNPDE20090724_211040_000000492081_00057_38688_4999.N1	DC map used
GOM_TRA_1PNPDE20090724_211215_000000432081_00057_38688_5000.N1	DC map used

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



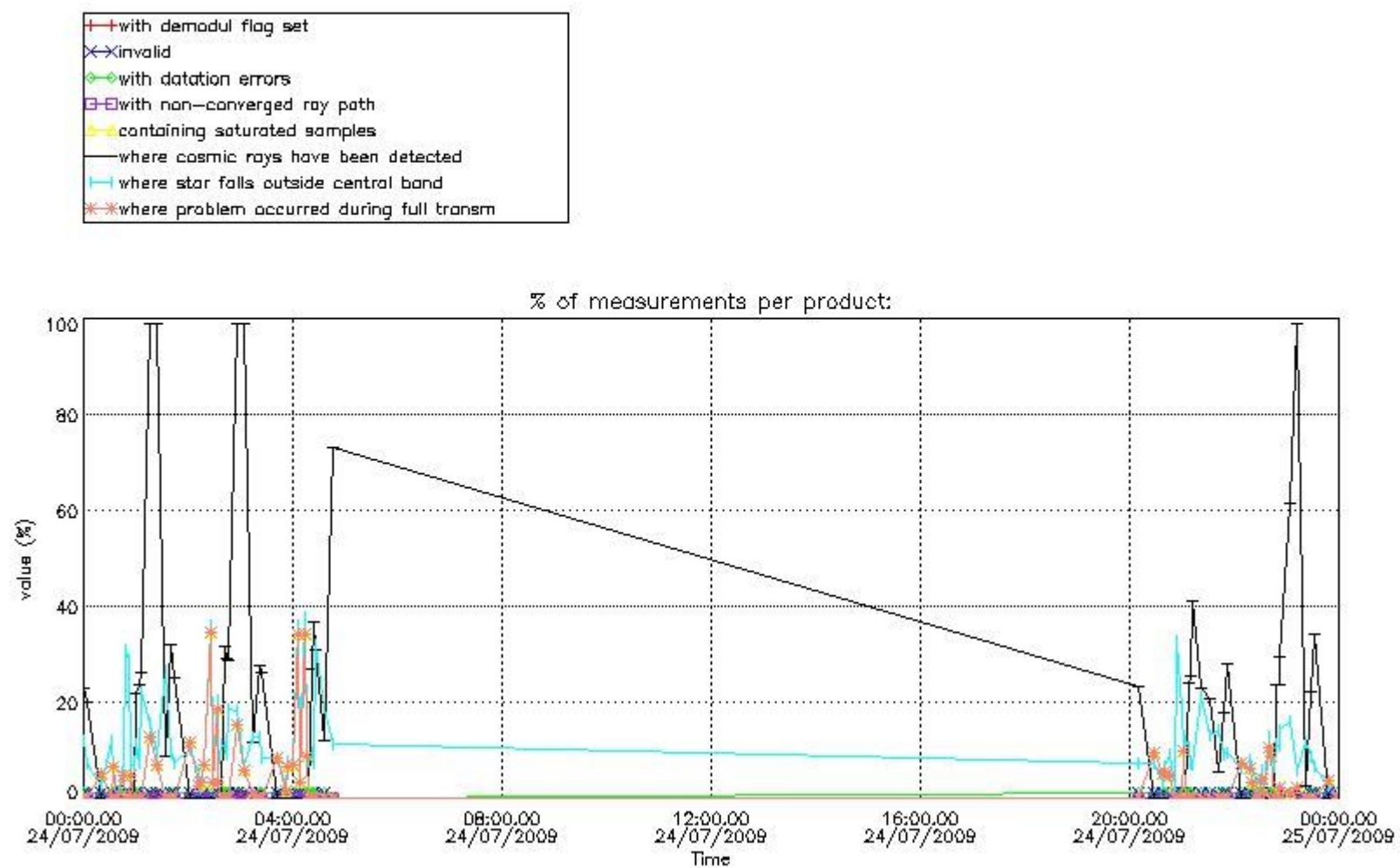
## 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

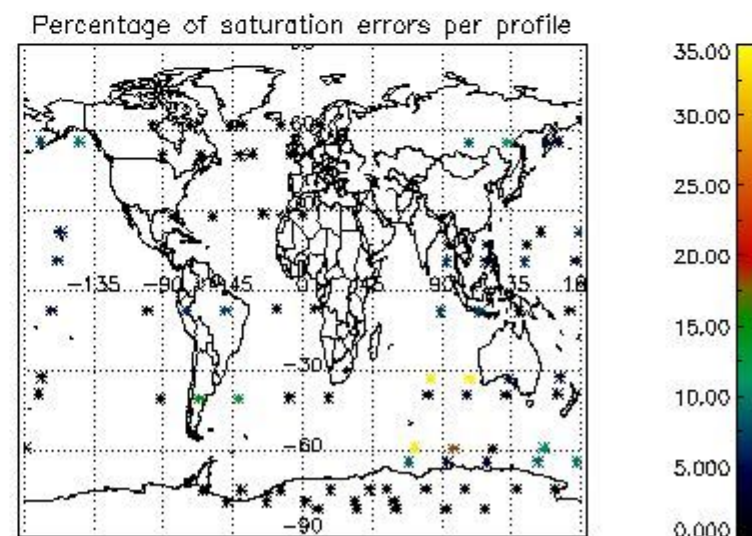
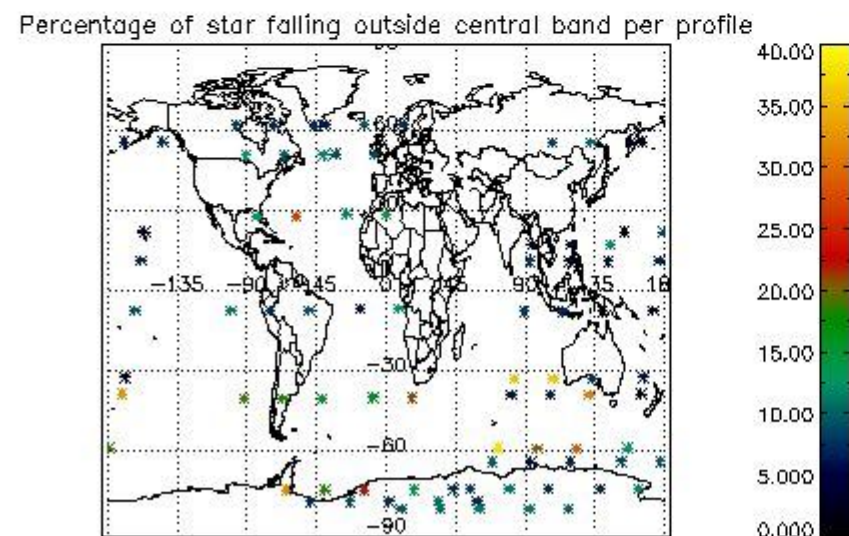
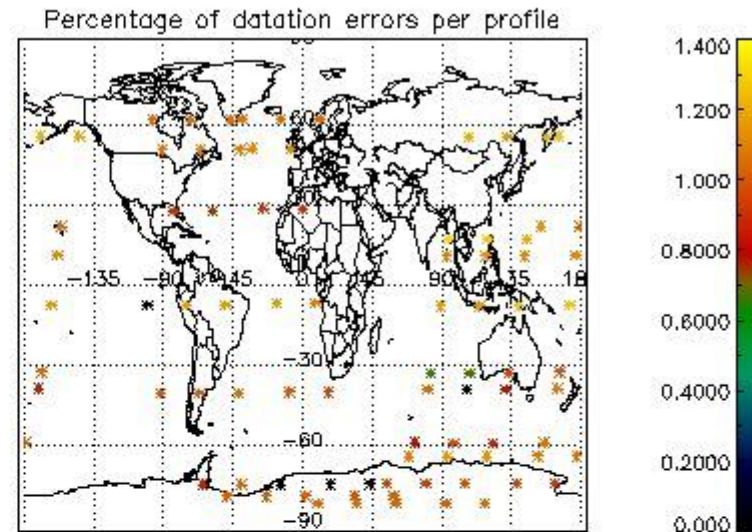
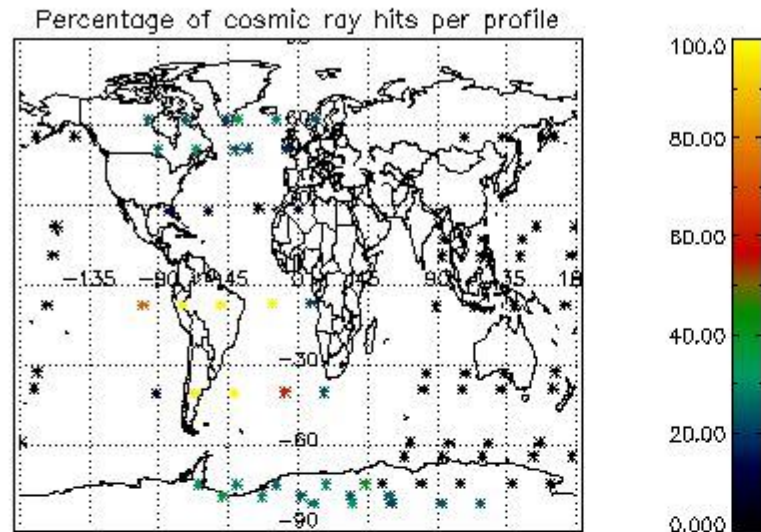
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	35.6322 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



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

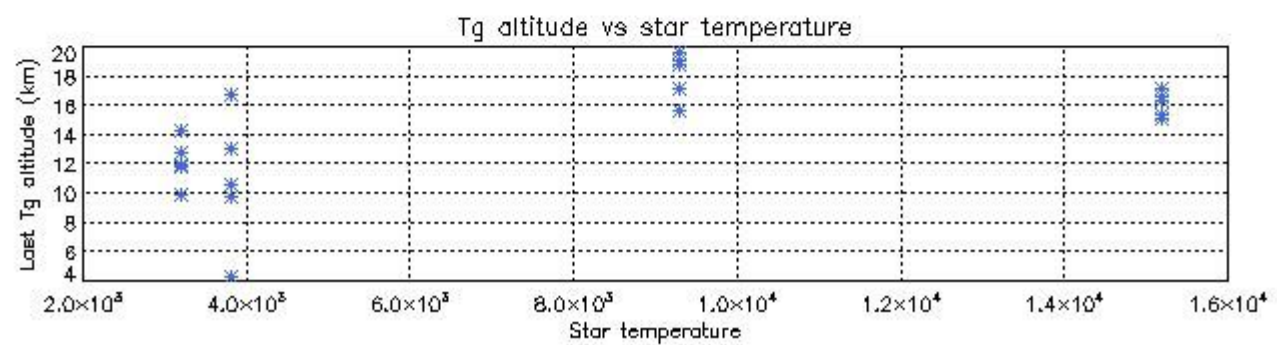
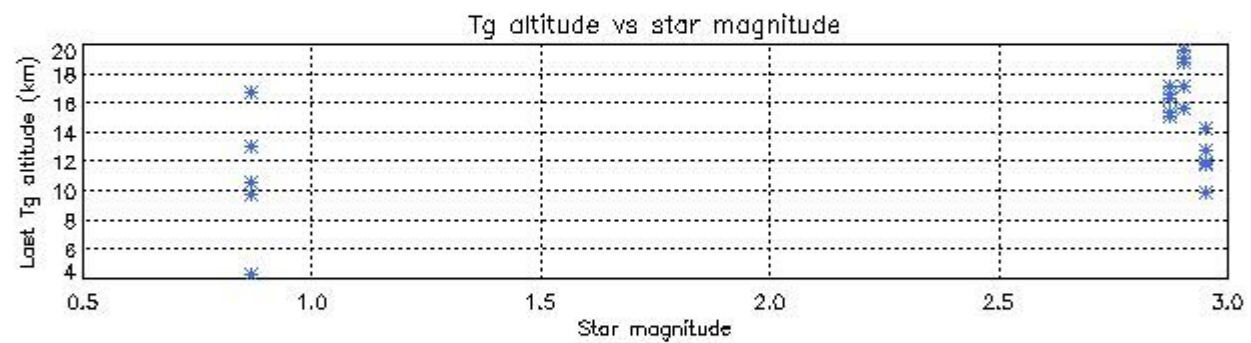
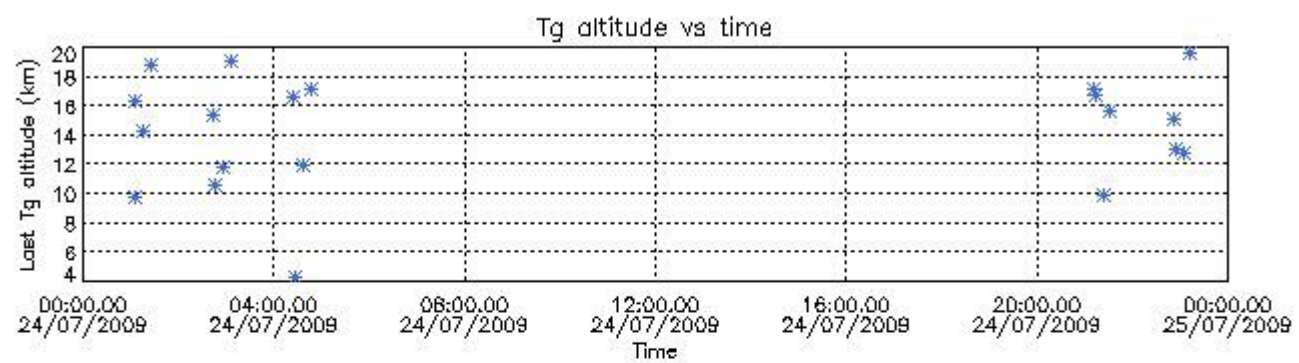
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.262	17.890	NaN
St. deviation:	3.8300	5.7624	NaN
Maximum:	19.580	27.135	NaN
Minimum:	4.2091	3.0801	NaN
Number of data:	20.000	47.000	NaN

### 6.2 Plot for DARK limb products

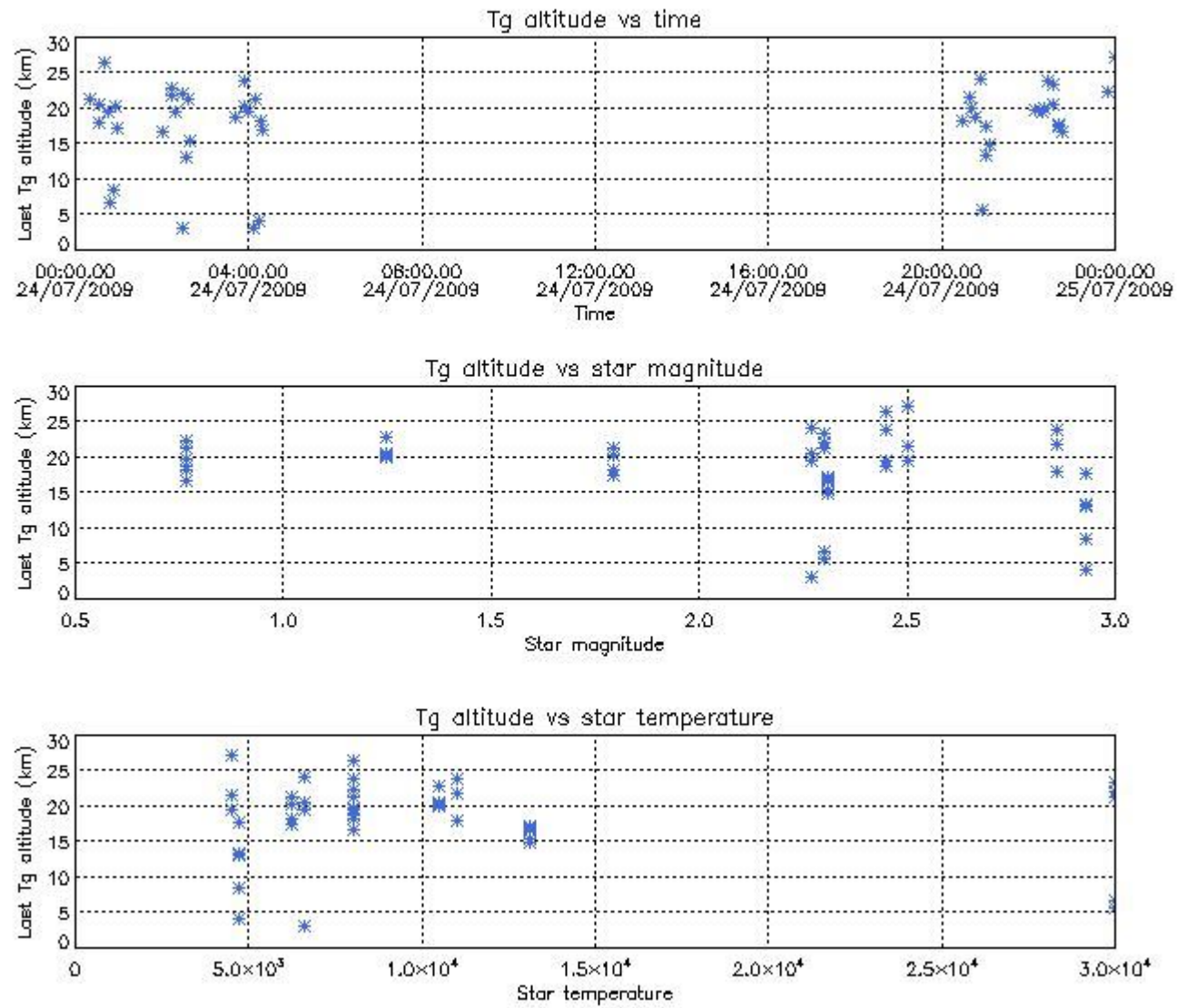


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

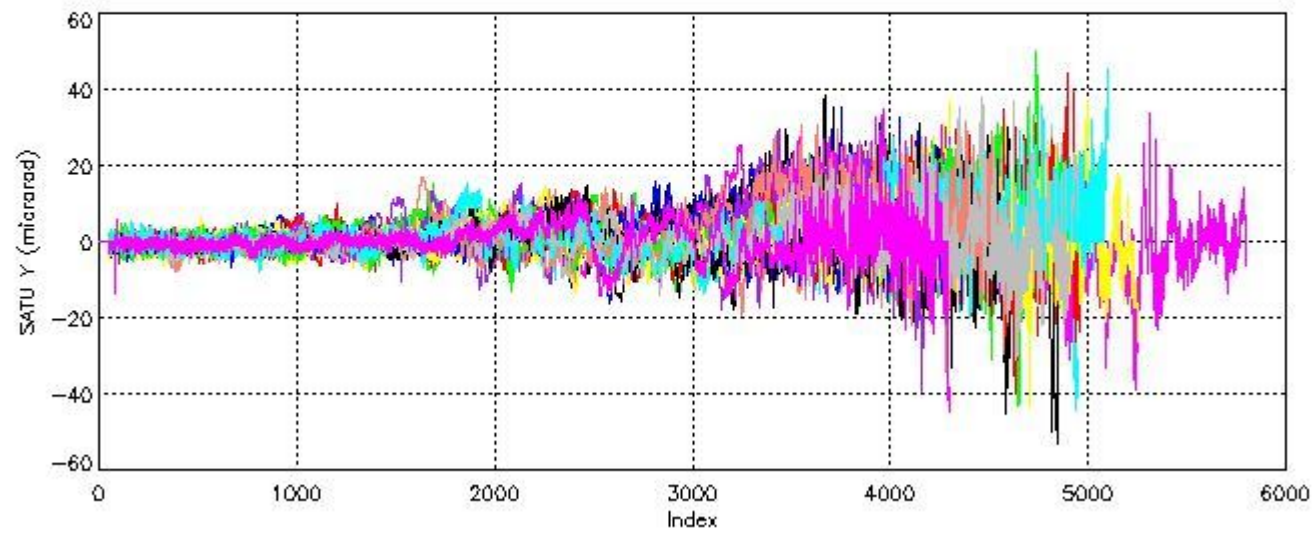
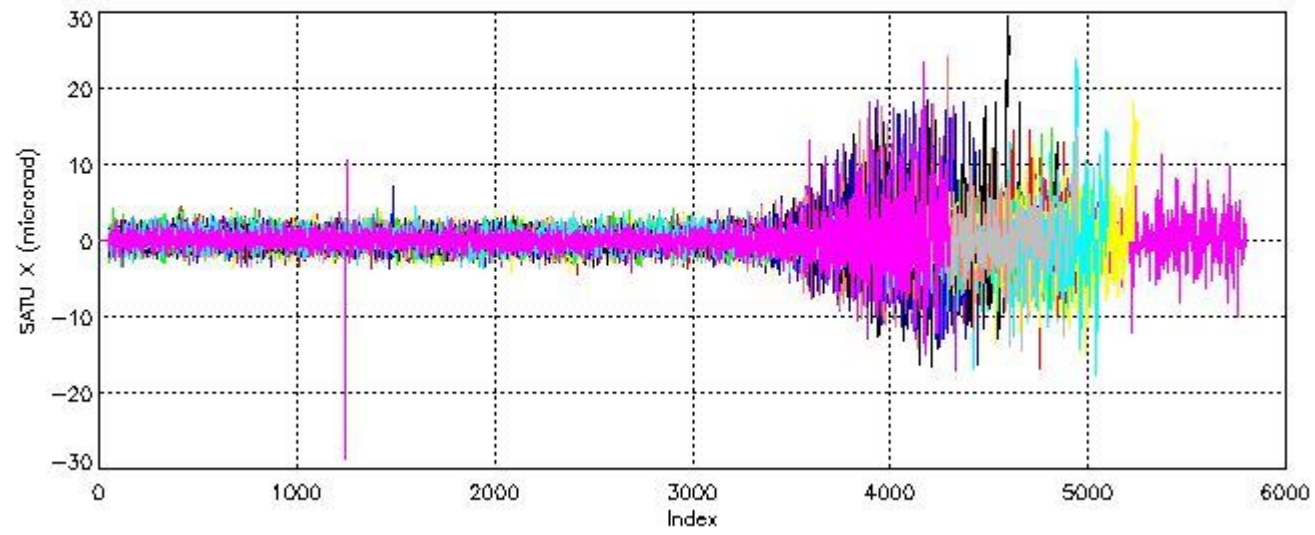


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.15501	-0.52676	0.26490	-0.47987
St. deviation:	0.62816	1.3283	0.66291	1.1611
Maximum:	4.6000	7.1000	5.5000	9.7000
Minimum:	-3.6000	-13.500	-4.4000	-7.3000

Number of data:	20300.	20300.	49350.	49350.
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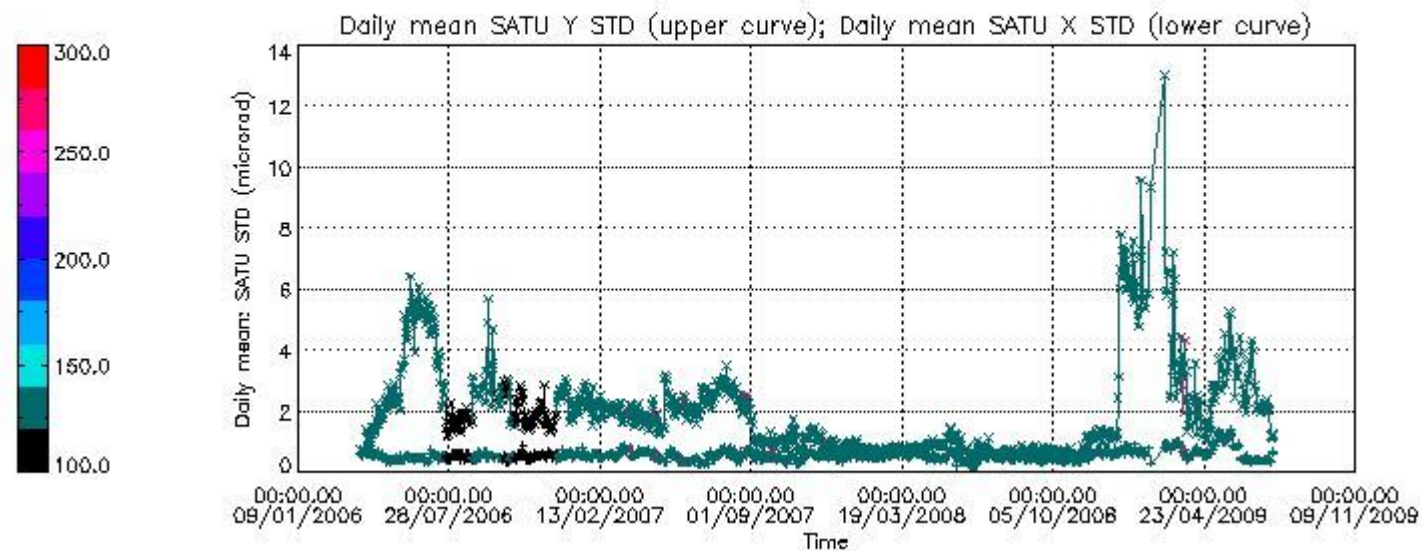
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

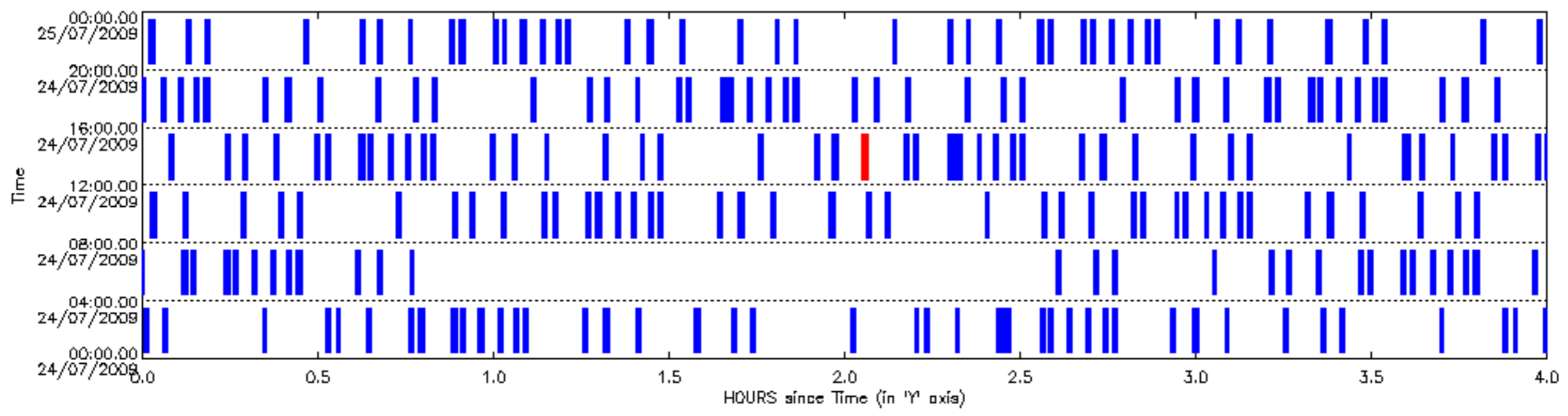
Lower curve: STD of SATU X axis

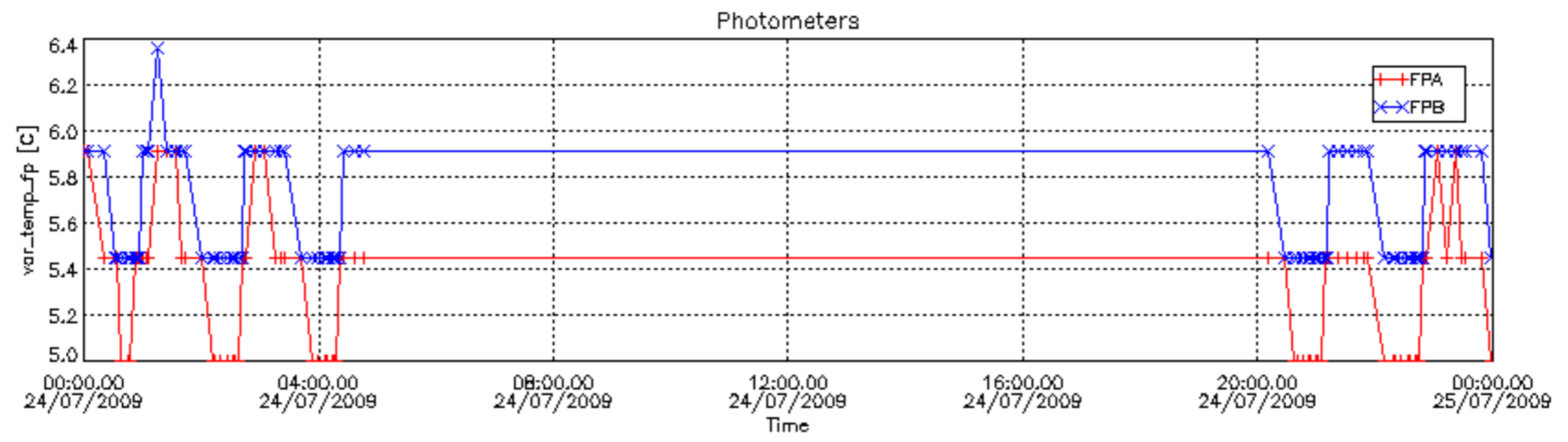
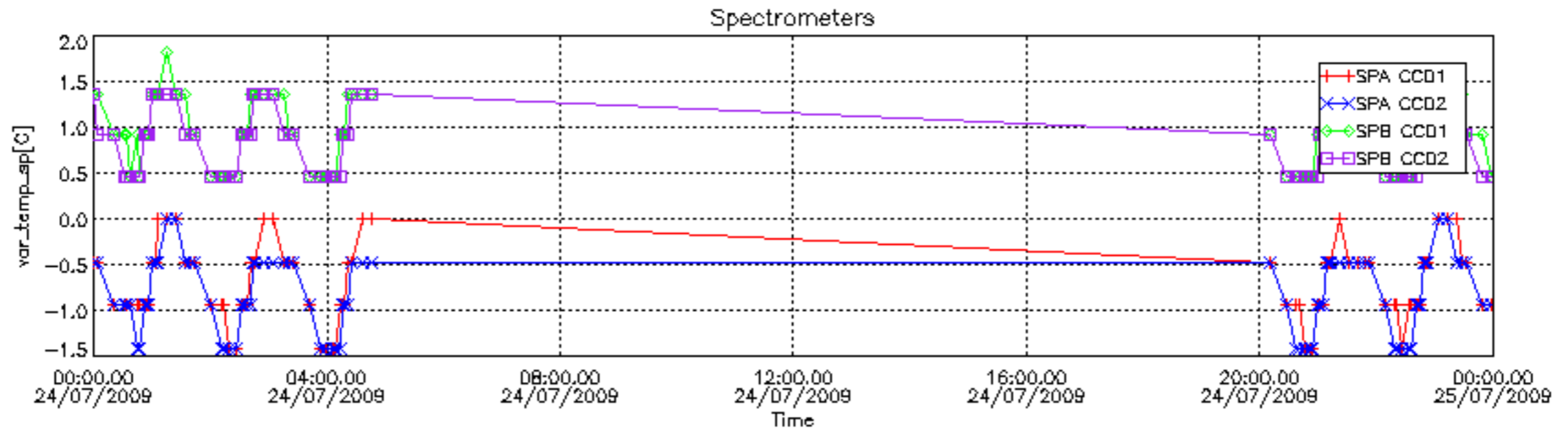


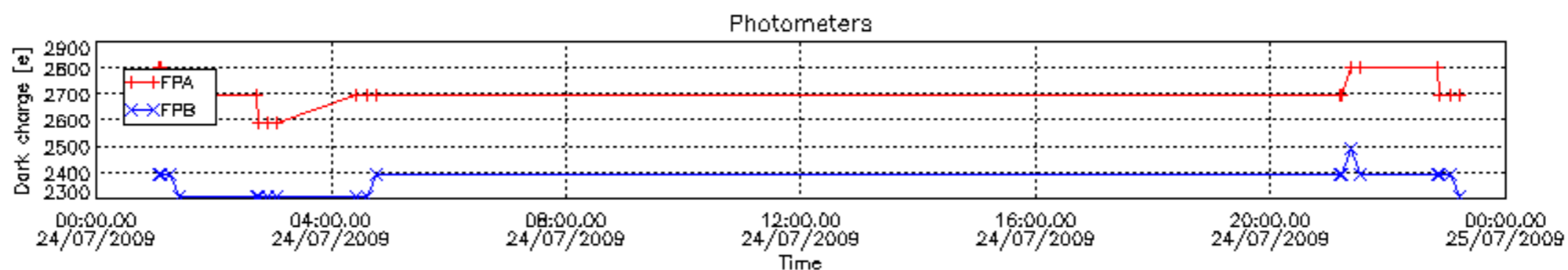
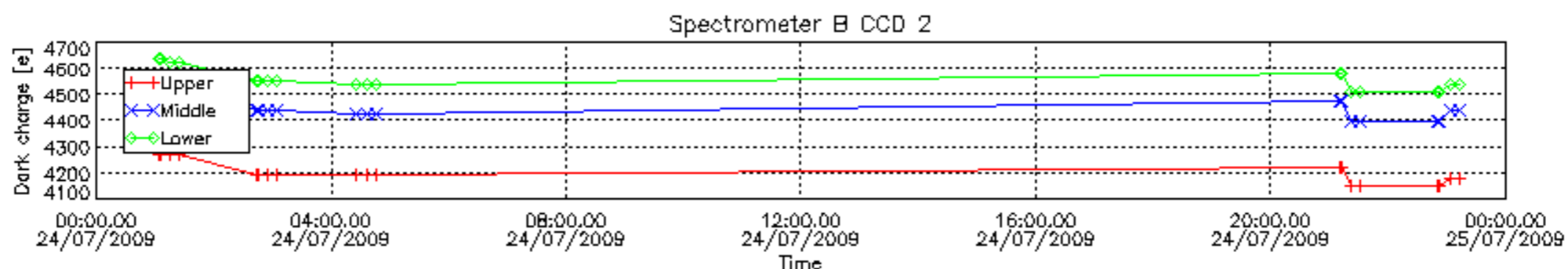
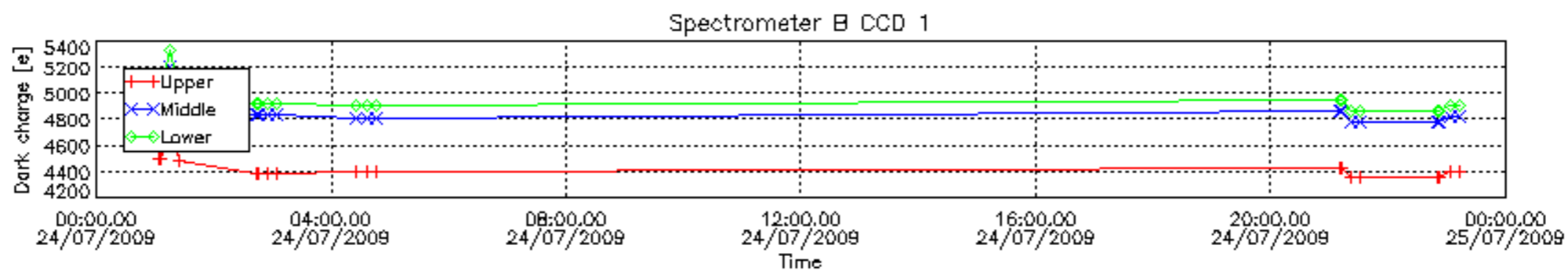
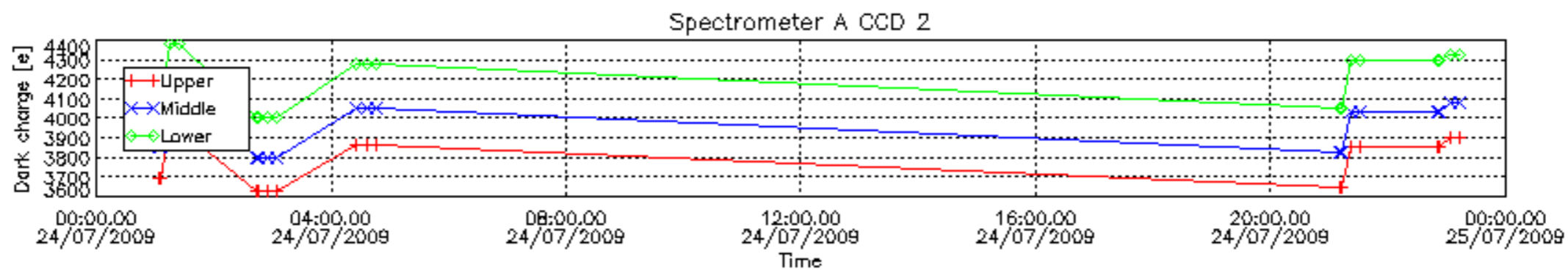
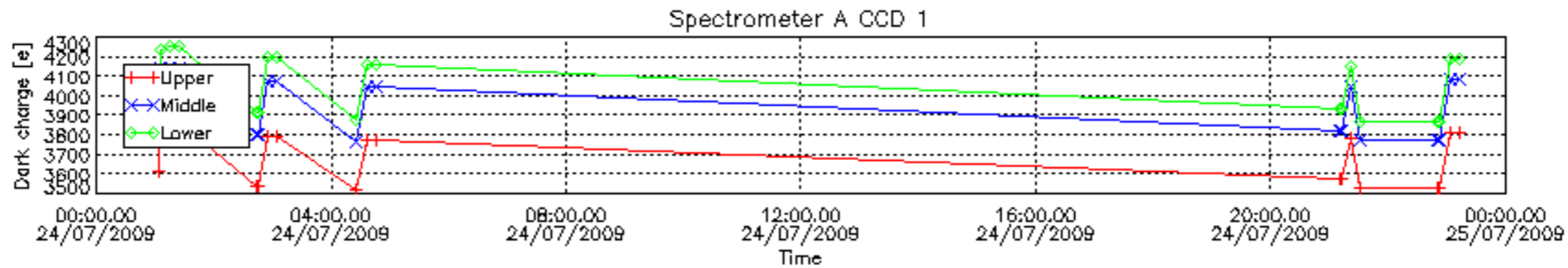
### 8. Auxiliary Data Files used for the production reported in section 2.4

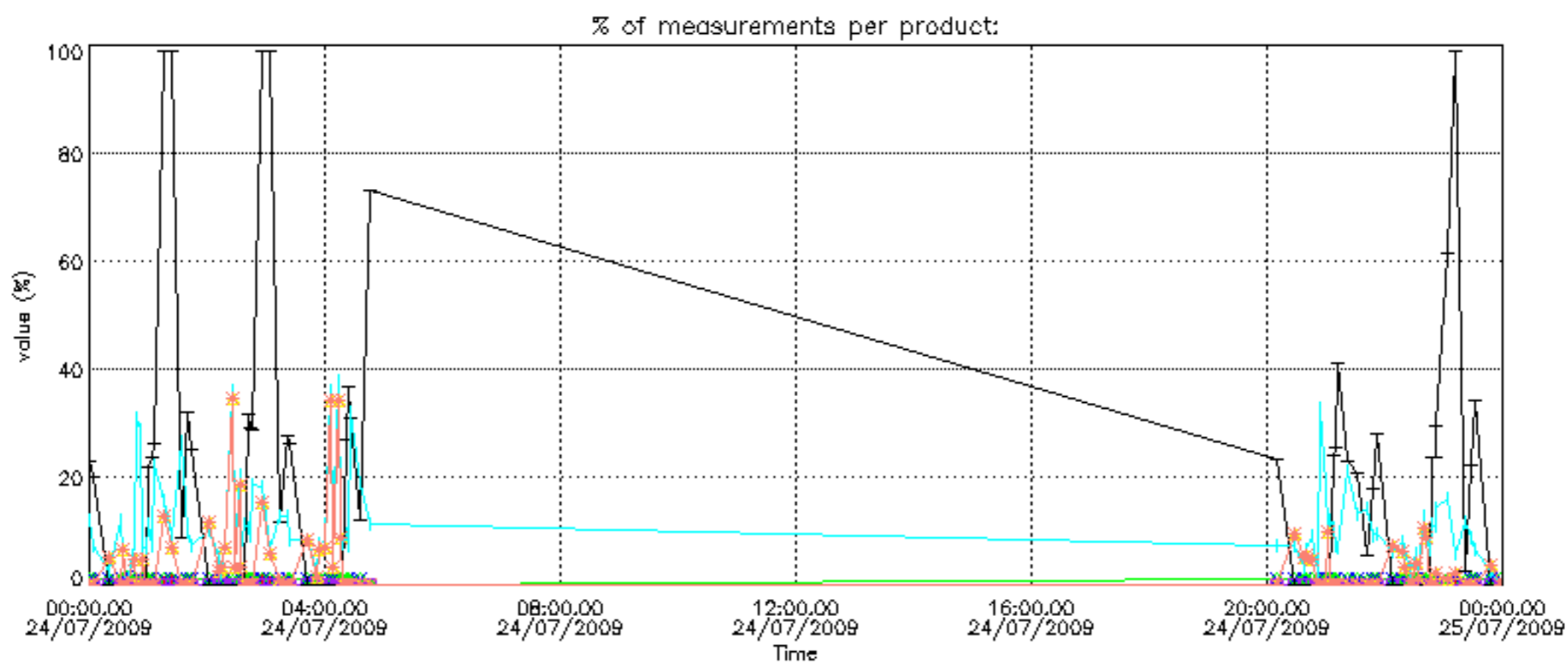
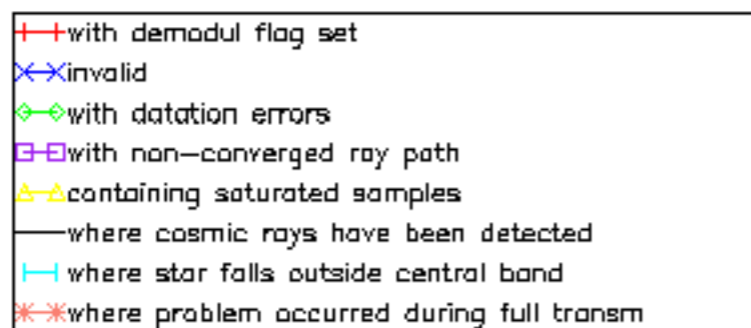
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	24-JUL-2009 00:00:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090714_102335_20090712_000000_20100101_000000	1	24-JUL-2009 00:00:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090724_083809_20090721_000000_20100101_000000	51	24-JUL-2009 20:10:35
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	24-JUL-2009 00:00:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-JUL-2009 00:00:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-JUL-2009 00:00:04
ECMWF_FILE	AUX_ECF_AXNECM20090723_064113_20090723_210000_20090724_090000	1	24-JUL-2009 00:00:04
ECMWF_FILE	AUX_ECF_AXNECM20090724_084447_20090724_150000_20090725_030000	51	24-JUL-2009 20:10:35
ECMWF_FILE	AUX_ECF_AXNECM20090724_084447_20090724_210000_20090725_090000	64	24-JUL-2009 21:22:24
OPTIONAL_ECMWF_FILE	MISSING	1	24-JUL-2009 00:00:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090723_233022_000057382081_00044_38675_8411.N1	1	24-JUL-2009 00:00:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090724_011119_000041442081_00045_38676_8412.N1	15	24-JUL-2009 01:15:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090724_022542_000057382081_00046_38677_8413.N1	26	24-JUL-2009 02:33:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090724_040639_000057382081_00047_38678_8414.N1	42	24-JUL-2009 04:08:12
ORBIT_DATA_FILE	AUX_FRO_AXVPDS20090726_010110_20090722_221000_20090725_005000	51	24-JUL-2009 20:10:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090724_225822_000057382081_00058_38689_8417.N1	81	24-JUL-2009 23:03:00



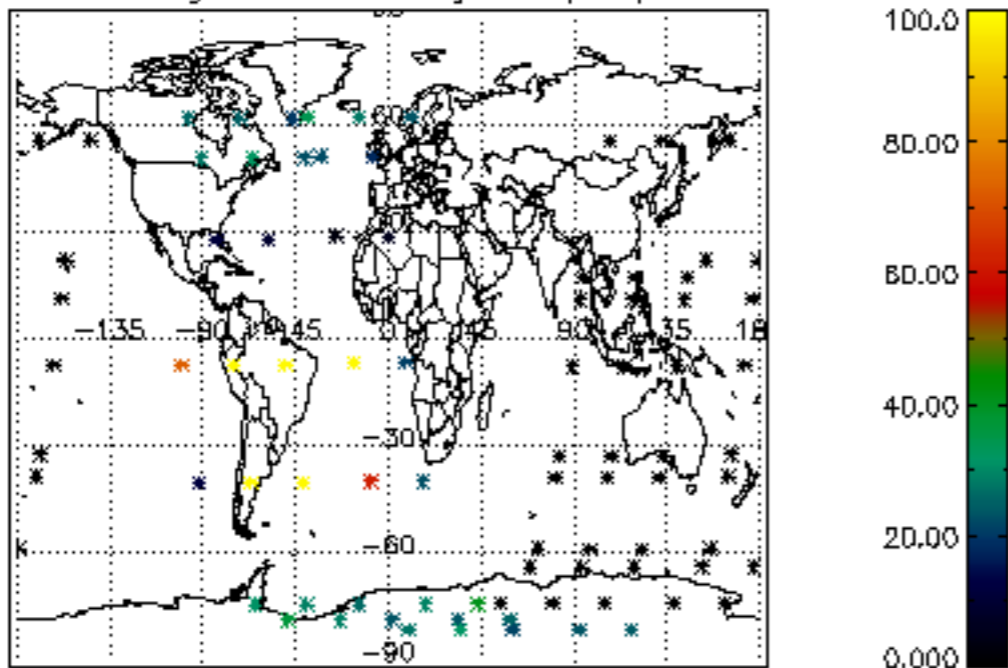




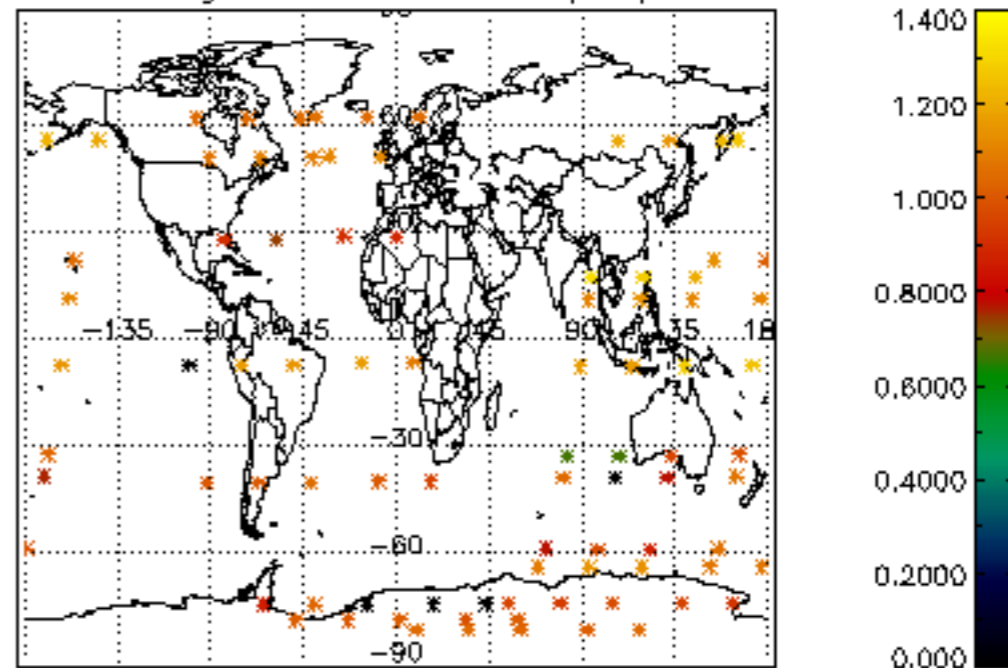




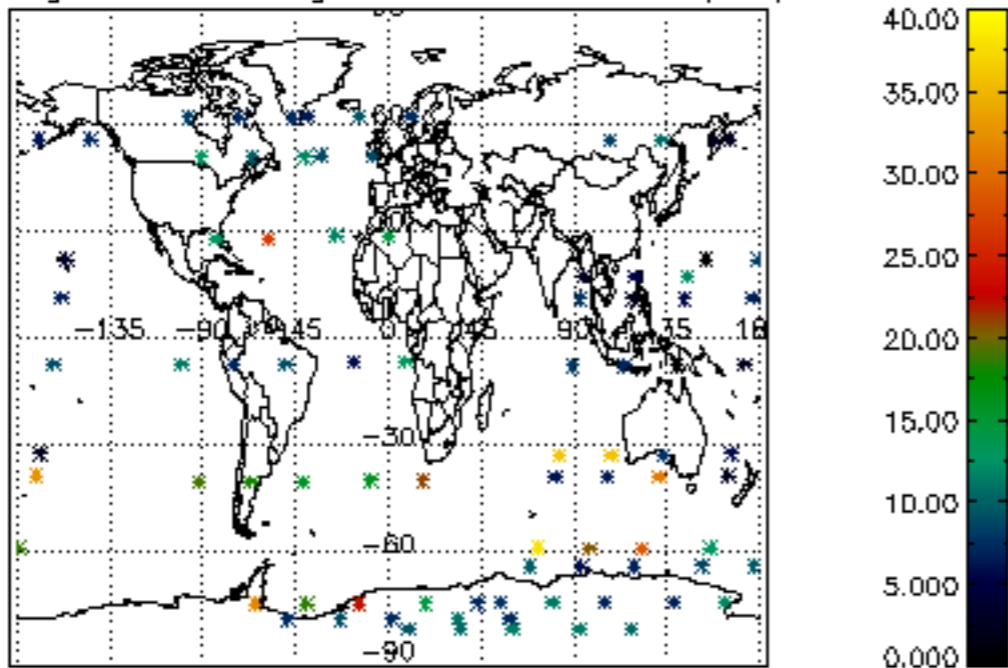
Percentage of cosmic ray hits per profile



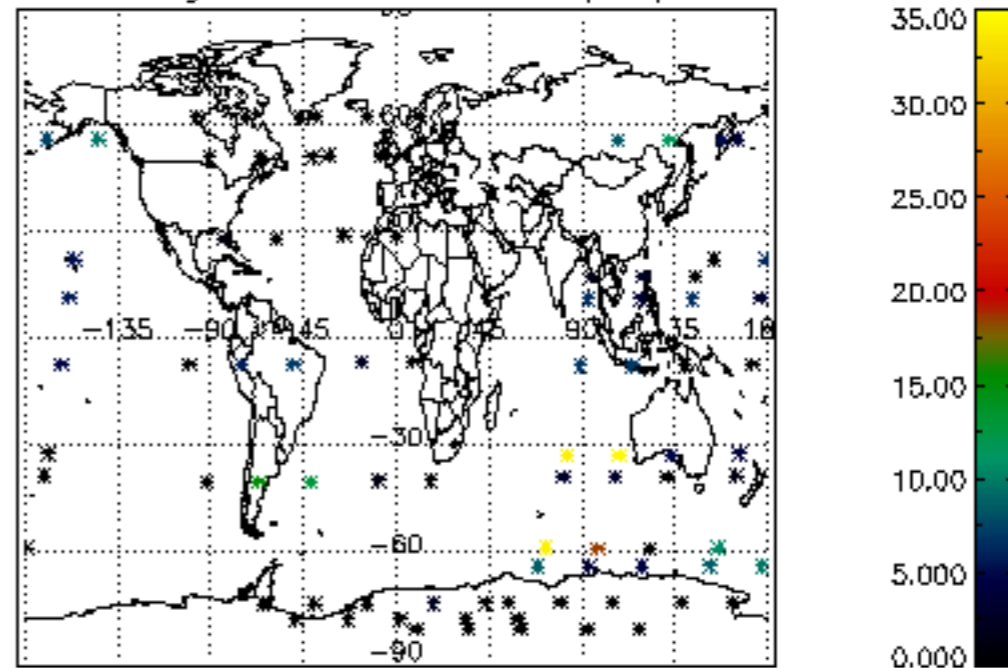
Percentage of datation errors per profile



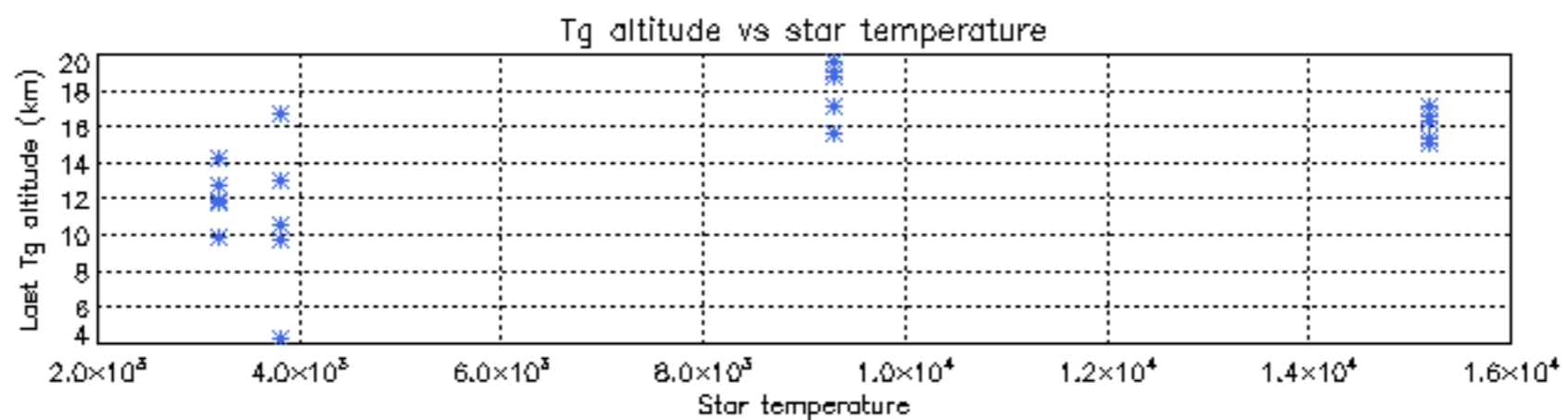
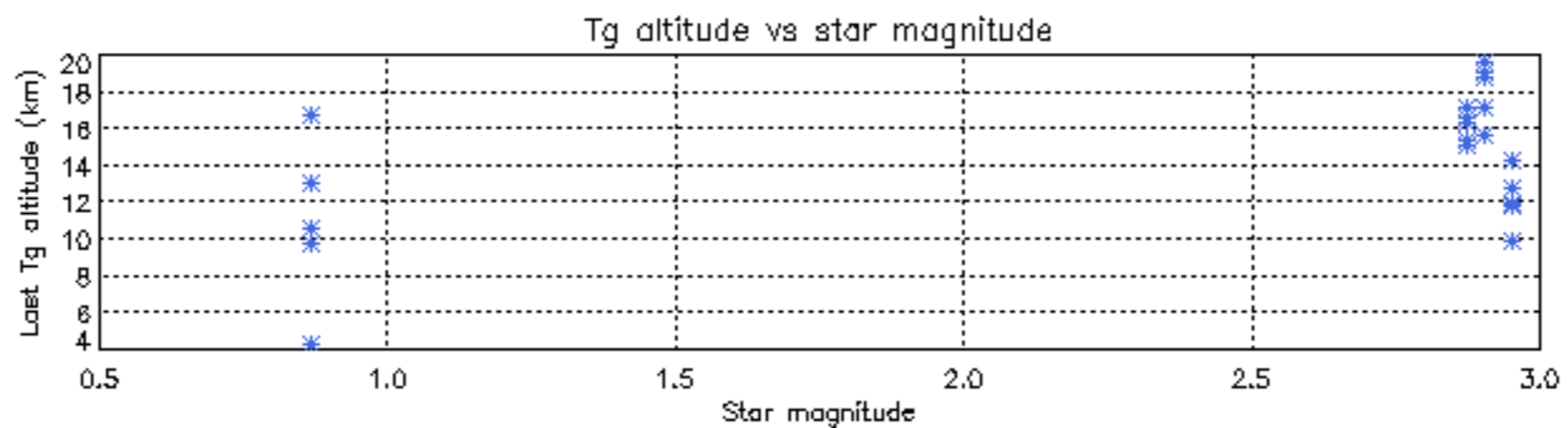
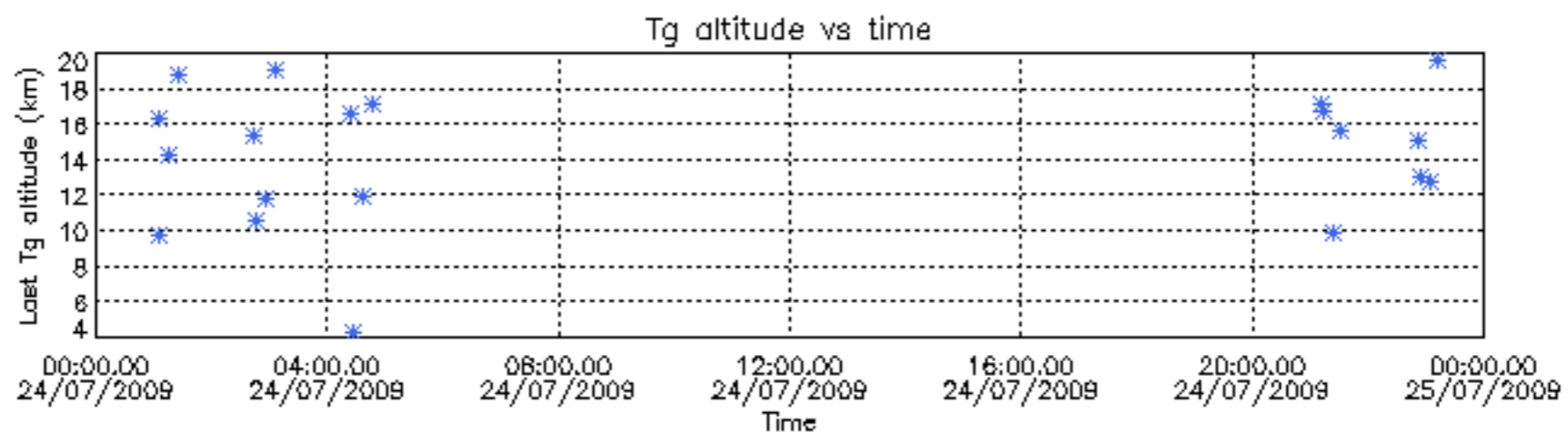
Percentage of star falling outside central band per profile



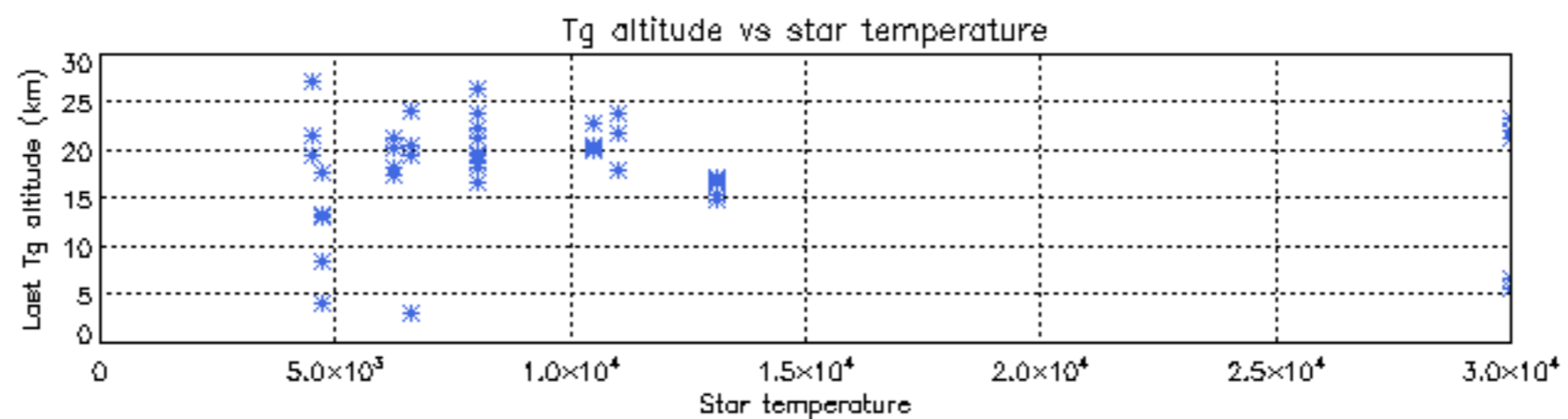
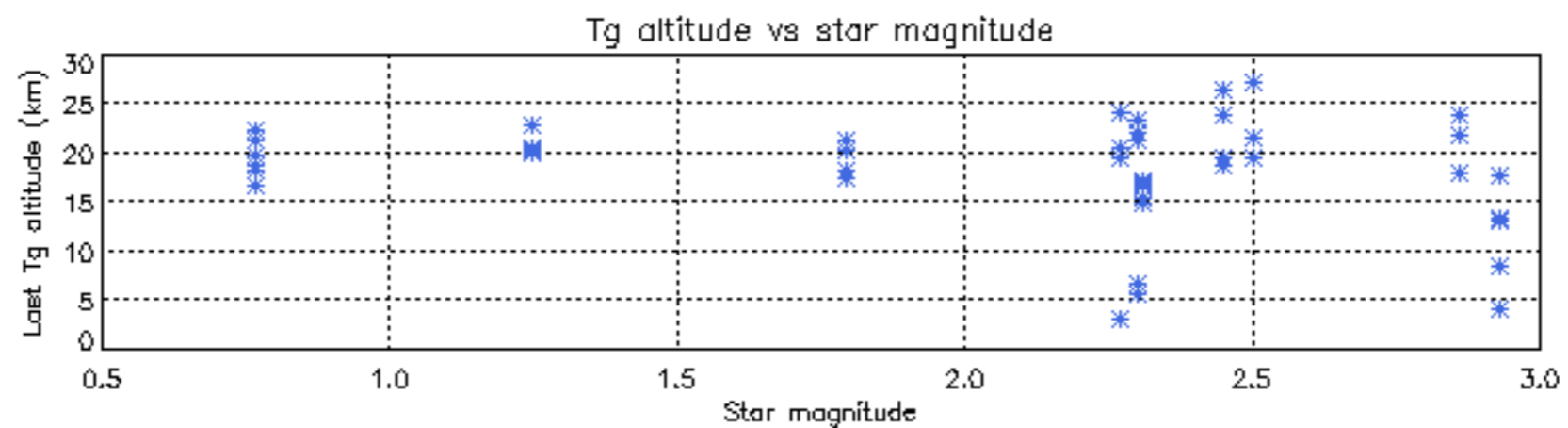
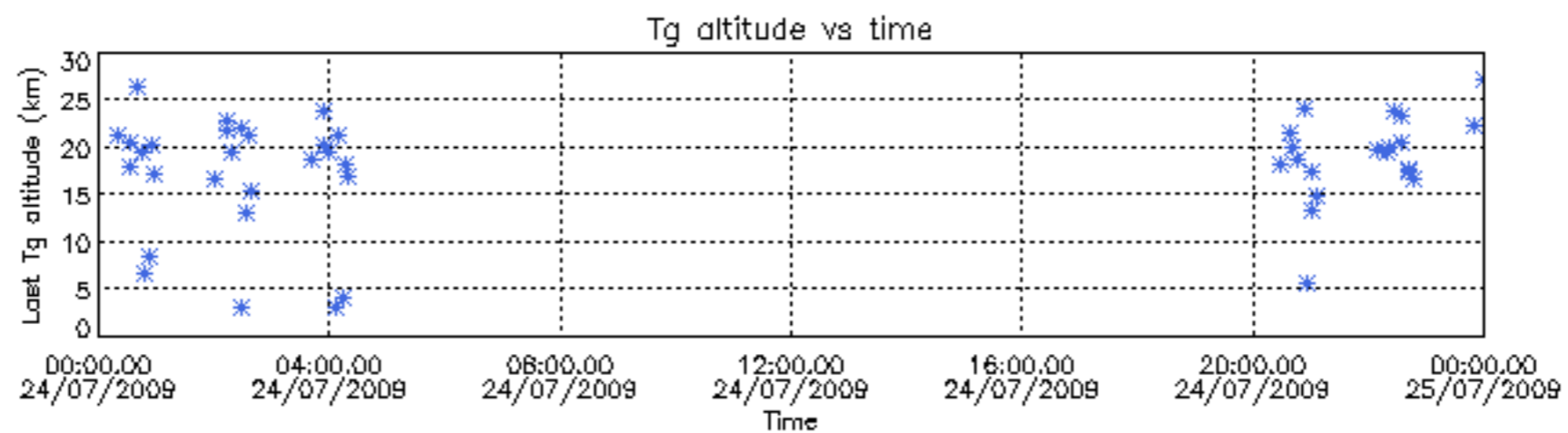
Percentage of saturation errors per profile

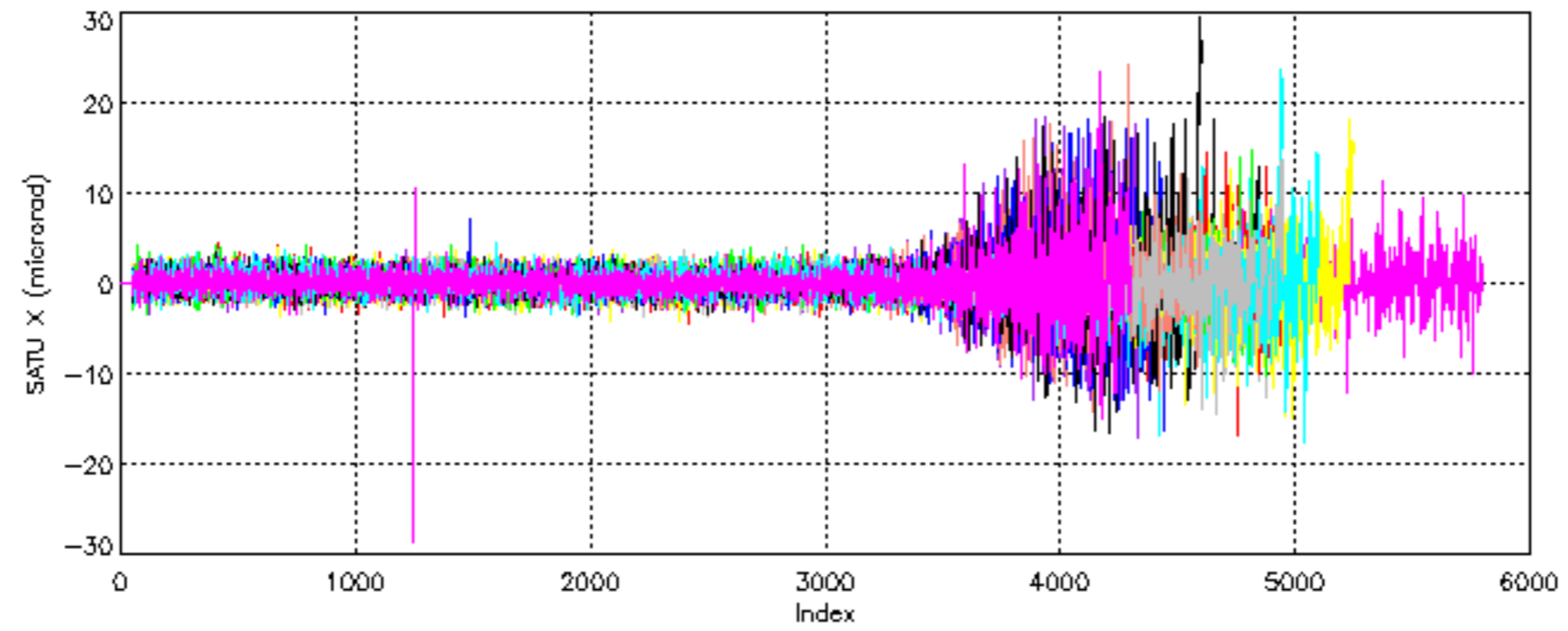


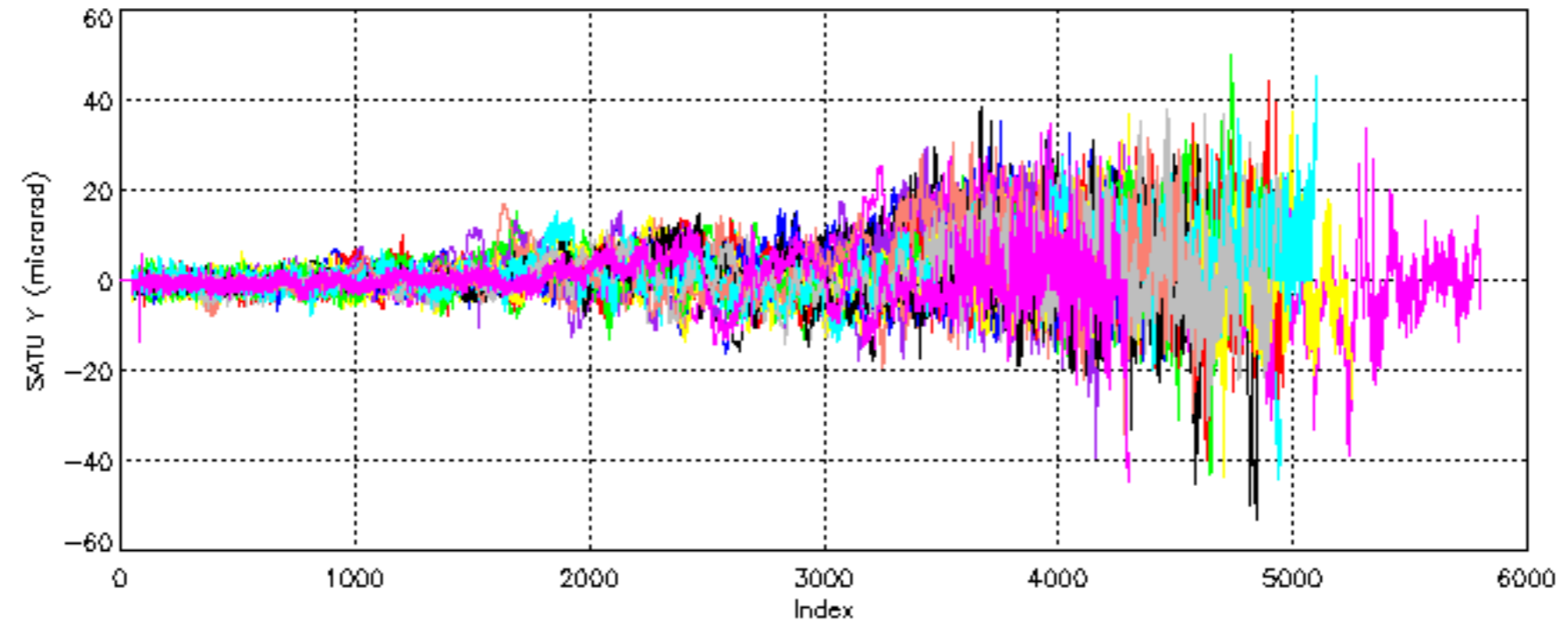
Tangent altitude at which the star is lost

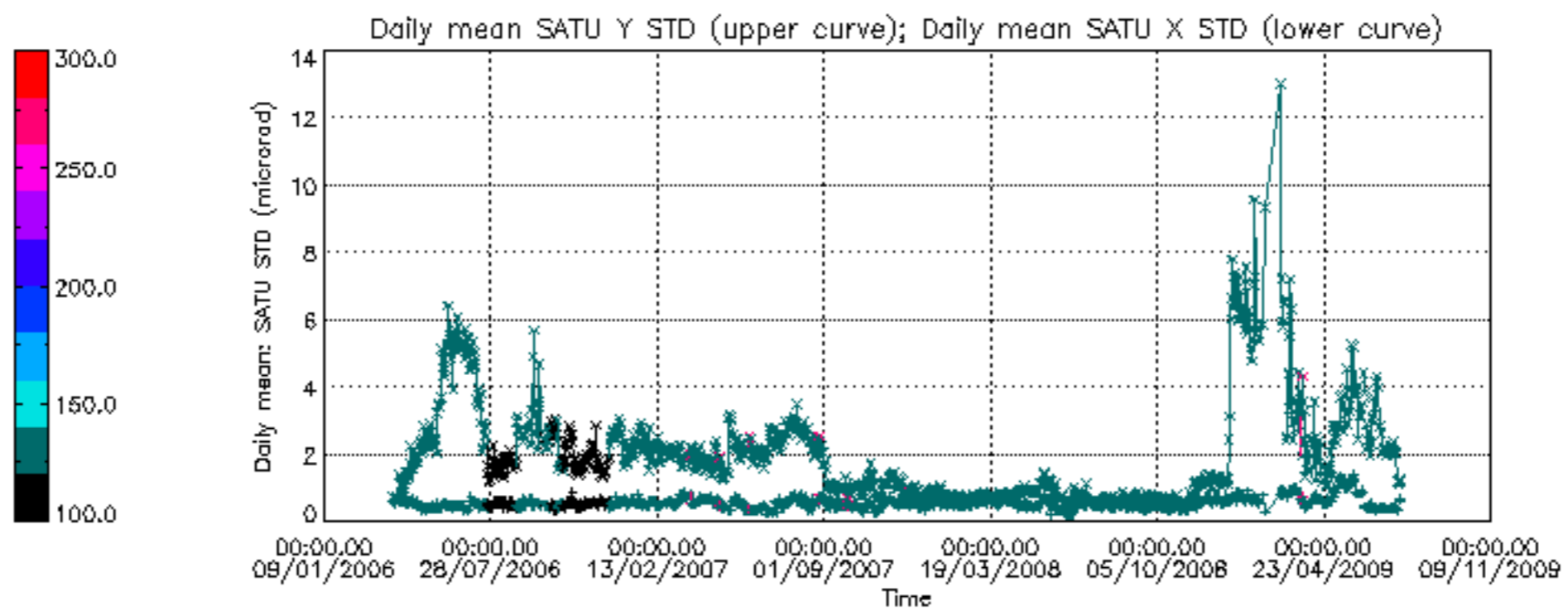


Tangent altitude at which the star is lost









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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090702_010909_000044272080_00231_38361_8080.N1
 1; -520.0; 02-JUL-2009 01:09:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38361
 2; 113.5; 02-JUL-2009 01:19:42; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;38362
 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
10; 3333.8; 02-JUL-2009 02:13:23; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38362
11; 3777.3; 02-JUL-2009 02:20:46; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38362
12; 3872.7; 02-JUL-2009 02:22:22; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38362
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090701_014033_000044422080_00217_38347_8074.N1
 1; -532.5; 01-JUL-2009 01:40:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38347
 2; 99.4; 01-JUL-2009 01:51:05; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;38348
 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
 8; 2651.1; 01-JUL-2009 02:33:37; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;38348
 9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348
10; 3343.1; 01-JUL-2009 02:45:09; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38348
11; 3784.6; 01-JUL-2009 02:52:31; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;38348
12; 3876.9; 01-JUL-2009 02:54:03; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;38348
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 1;-2159.1; 01-JUL-2009 02:54:03; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;38348
 2;-1769.2; 01-JUL-2009 03:00:33; Bright; 34.5; 73; 57Gam1And ; 2.26; 13100;occ; 69; 0;38348
 3;-1610.9; 01-JUL-2009 03:03:11; Dark ; 35.0; 173; 4Bet Tri ; 3.00; 8900;occ; 70; 0;38348
 4;-1355.5; 01-JUL-2009 03:07:26; Dark ; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;38348
 5; -531.6; 01-JUL-2009 03:21:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38348
 6; 100.2; 01-JUL-2009 03:31:42; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;38349
 7; 489.1; 01-JUL-2009 03:38:11; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38349
 8; 605.3; 01-JUL-2009 03:40:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38349
 9; 778.8; 01-JUL-2009 03:43:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38349
10; 1481.3; 01-JUL-2009 03:54:43; Bright; 44.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 88; 0;38349
11; 2230.9; 01-JUL-2009 04:07:13; Bright; 51.0; 168; 17Zet Aql ; 2.99; 11000;occ; 102; 0;38349
12; 2650.9; 01-JUL-2009 04:14:13; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;38349
13; 2920.9; 01-JUL-2009 04:18:43; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38349
14; 3342.2; 01-JUL-2009 04:25:44; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38349
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 2;-2158.9; 01-JUL-2009 04:34:39; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38349
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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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 13; 4265.7; 02-JUL-2009 00:48:19; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38361  
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 13; 6643.9; 01-JUL-2009 08:41:58; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38351  
 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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 5; 114.5; 02-JUL-2009 03:00:19; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;38363  
 6; 502.5; 02-JUL-2009 03:06:47; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;38363  
 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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13; 4264.7; 02-JUL-2009 22:36:05; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38374
14; 4426.9; 02-JUL-2009 22:38:47; Dark ; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;38374
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6; 3871.6; 02-JUL-2009 09:04:44; Bright; 36.0; 110; 37Del Cas ; 2.68; 8900;occ; 72; 0;38366
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6; 3871.1; 02-JUL-2009 10:45:20; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;38367
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9; 4687.0; 02-JUL-2009 10:58:56; Dark ; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;38367
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3; 2904.8; 02-JUL-2009 12:09:49; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38368
4; 3329.7; 02-JUL-2009 12:16:54; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38368
5; 3773.7; 02-JUL-2009 12:24:18; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;38368
6; 3871.0; 02-JUL-2009 12:25:56; Bright; 36.0; 110; 37Del Cas ; 2.68; 8900;occ; 72; 0;38368
7; 4265.3; 02-JUL-2009 12:32:30; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38368
8; 4426.4; 02-JUL-2009 12:35:11; Dark ; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;38368
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; 6658.8; 02-JUL-2009 13:12:23; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38368
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 4; 3328.9; 02-JUL-2009 13:57:29; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38369
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 9; 4687.7; 02-JUL-2009 14:20:08; Dark ; 42.0; 50; 13Alp Ari ; 2.01; 4250;occ; 84; 0;38369
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13; 6660.0; 02-JUL-2009 14:53:00; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38369
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 5; 807.2; 03-JUL-2009 00:59:39; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38376
 6; 1486.3; 03-JUL-2009 01:10:58; Bright; 48.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 96; 0;38376
 7; 2217.1; 03-JUL-2009 01:23:09; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38376
 8; 2638.1; 03-JUL-2009 01:30:10; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;38376
 9; 2897.9; 03-JUL-2009 01:34:30; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38376
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 5; 808.2; 03-JUL-2009 02:40:16; Dark ; 58.0; 172; Gam Gru ; 3.00; 13100;occ; 116; 0;38377
 6; 1486.6; 03-JUL-2009 02:51:34; Bright; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;38377
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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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9; 704.2; 09-JUL-2009 06:11:13; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38465

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6; 4254.7; 09-JUL-2009 17:13:59; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38471
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12; 3760.9; 16-JUL-2009 23:28:02; Bright; 55.0; 68; 18Alp Cas ; 2.22; 4500;occ; 110; 0;38575
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16; 4627.7; 16-JUL-2009 23:42:29; Dark ; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;38575
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4; 787.7; 17-JUL-2009 00:19:05; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38576
5; 981.0; 17-JUL-2009 00:22:18; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38576
6; 2099.8; 17-JUL-2009 00:40:57; Bright; 44.0; 11; 53Alp Aql ; 0.76; 8000;occ; 88; 0;38576
7; 2768.6; 17-JUL-2009 00:52:06; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;38576
8; 2904.2; 17-JUL-2009 00:54:22; Bright; 61.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 122; 0;38576
9; 3199.1; 17-JUL-2009 00:59:16; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;38576
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15; 4627.8; 17-JUL-2009 01:23:05; Dark ; 41.5; 146; 25Eta Tau ; 2.87; 15200;occ; 83; 0;38576
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3; -1997.3; 16-JUL-2009 06:46:41; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38565
4; -1915.9; 16-JUL-2009 06:48:02; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;38565
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6; -1410.6; 16-JUL-2009 06:56:28; Dark ; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;38565
7; -931.8; 16-JUL-2009 07:04:26; Dark ; 65.0; 94; 92Alp Cet ; 2.53; 3100;occ; 130; 0;38565
8; -582.8; 16-JUL-2009 07:10:15; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38565
9; 339.3; 16-JUL-2009 07:25:37; Dark ; 57.0; 84; Alp Phe ; 2.40; 4500;occ; 114; 0;38566
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11; 781.0; 16-JUL-2009 07:32:59; Dark ; 57.0; 31; Alp Gru ; 1.73; 15200;occ; 114; 0;38566
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4; 3204.4; 16-JUL-2009 09:53:58; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38567
5; 3650.0; 16-JUL-2009 10:01:24; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38567
6; 3766.4; 16-JUL-2009 10:03:20; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38567
7; 4038.3; 16-JUL-2009 10:07:52; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;38567
8; 4119.6; 16-JUL-2009 10:09:14; Bright; 45.5; 35; 33Alp Per ; 1.79; 6250;occ; 91; 0;38567
9; 4296.7; 16-JUL-2009 10:12:11; Bright; 44.0; 79; 26Bet Per ; 2.31; 13100;occ; 88; 0;38567
10; 4625.8; 16-JUL-2009 10:17:40; Dark ; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81; 0;38567
11; 5105.6; 16-JUL-2009 10:25:40; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;38567
12; 5454.9; 16-JUL-2009 10:31:29; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38567
13; 6377.4; 16-JUL-2009 10:46:51; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38567
14; 6722.9; 16-JUL-2009 10:52:37; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38567

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3; 2910.2; 16-JUL-2009 13:10:16; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38569
4; 3203.1; 16-JUL-2009 13:15:09; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38569
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8; 4119.2; 16-JUL-2009 18:32:13; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;38572
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12; 5459.7; 16-JUL-2009 18:54:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38572
13; 6383.1; 16-JUL-2009 19:09:57; Dark ; 65.5; 84; Alp Phe ; 2.40; 4500;occ; 131; 0;38572
14; 6727.2; 16-JUL-2009 19:15:41; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;38572

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15; 6821.7; 16-JUL-2009 19:17:15; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38572
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 10; 358.9; 17-JUL-2009 11:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38583  
 11; 699.2; 17-JUL-2009 12:01:48; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38583  
 12; 793.0; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38583  
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 3; 2898.7; 17-JUL-2009 12:38:28; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38583  
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 6; 3755.6; 17-JUL-2009 12:52:44; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38583  
 7; 4035.5; 17-JUL-2009 12:57:24; Bright; 62.0; 160; 23Gam Per ; 2.93; 4700;occ; 124; 0;38583  
 8; 4118.0; 17-JUL-2009 12:58:47; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;38583  
 9; 4295.9; 17-JUL-2009 13:01:45; Bright; 49.5; 79; 26Bet Per ; 2.31; 13100;occ; 99; 0;38583  
 10; 4473.2; 17-JUL-2009 13:04:42; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38583  
 11; 4629.9; 17-JUL-2009 13:07:19; Dark ; 42.5; 146; 25Eta Tau ; 2.87; 15200;occ; 85; 0;38583  
 12; 5118.5; 17-JUL-2009 13:15:27; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38583  
 13; 5470.2; 17-JUL-2009 13:21:19; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38583  
 14; 6395.8; 17-JUL-2009 13:36:45; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38583  
 15; 6735.9; 17-JUL-2009 13:42:25; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38583  
 16; 6829.6; 17-JUL-2009 13:43:58; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38583  
 17; 7022.6; 17-JUL-2009 13:47:11; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38583

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 3; 2897.8; 17-JUL-2009 14:19:03; Bright; 50.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 100; 0;38584  
 4; 3194.8; 17-JUL-2009 14:23:59; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38584  
 5; 3638.2; 17-JUL-2009 14:31:23; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38584  
 6; 3755.1; 17-JUL-2009 14:33:20; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38584  
 7; 4035.3; 17-JUL-2009 14:38:00; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;38584

8; 4117.9; 17-JUL-2009 14:39:23; Bright; 60.0; 35; 33Alp Per ; 1.79; 6250;occ; 120; 0;38584  
 9; 4296.3; 17-JUL-2009 14:42:21; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38584  
 10; 4473.4; 17-JUL-2009 14:45:18; Dark ; 41.0; 150; 44Zet Per ; 2.89; 28000;occ; 82; 0;38584  
 11; 4630.3; 17-JUL-2009 14:47:55; Dark ; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;38584  
 12; 5119.3; 17-JUL-2009 14:56:04; Dark ; 72.5; 94; 92Alp Cet ; 2.53; 3100;occ; 145; 0;38584  
 13; 5471.2; 17-JUL-2009 15:01:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38584  
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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  
 16; 6829.9; 17-JUL-2009 15:24:35; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38584  
 17; 7023.4; 17-JUL-2009 15:27:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38584

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 3; 2897.2; 17-JUL-2009 15:59:38; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38585  
 4; 3194.1; 17-JUL-2009 16:04:35; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38585  
 5; 3637.4; 17-JUL-2009 16:11:58; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38585  
 6; 3754.4; 17-JUL-2009 16:13:55; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38585  
 7; 4035.3; 17-JUL-2009 16:18:36; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;38585  
 8; 4117.9; 17-JUL-2009 16:19:59; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38585  
 9; 4296.1; 17-JUL-2009 16:22:57; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;38585  
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 11; 4630.4; 17-JUL-2009 16:28:31; Dark ; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;38585  
 12; 5120.1; 17-JUL-2009 16:36:41; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38585  
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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  
 17; 7024.1; 17-JUL-2009 17:08:25; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 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  
 6; 3753.6; 17-JUL-2009 17:54:30; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;38586  
 7; 4034.9; 17-JUL-2009 17:59:12; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38586  
 8; 4117.8; 17-JUL-2009 18:00:34; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38586  
 9; 4295.9; 17-JUL-2009 18:03:33; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;38586  
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 11; 4630.5; 17-JUL-2009 18:09:07; Dark ; 43.5; 146; 25Eta Tau ; 2.87; 15200;occ; 87; 0;38586  
 12; 5121.0; 17-JUL-2009 18:17:18; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;38586  
 13; 5473.2; 17-JUL-2009 18:23:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38586  
 14; 6399.4; 17-JUL-2009 18:38:36; Dark ; 58.5; 84; Alp Phe ; 2.40; 4500;occ; 117; 0;38586  
 15; 6738.6; 17-JUL-2009 18:44:15; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;38586  
 16; 6831.7; 17-JUL-2009 18:45:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38586  
 17; 7024.7; 17-JUL-2009 18:49:01; Dark ; 49.5; 172; Gam Gru ; 3.00; 13100;occ; 99; 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  
 11; 3750.4; 18-JUL-2009 02:17:27; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;38591  
 12; 4034.1; 18-JUL-2009 02:22:10; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38591  
 13; 4117.1; 18-JUL-2009 02:23:33; Bright; 60.5; 35; 33Alp Per ; 1.79; 6250;occ; 121; 0;38591

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 2; -1740.2; 18-JUL-2009 02:26:32; Bright; 48.5; 79; 26Bet Per ; 2.31; 13100;occ; 97; 0;38591  
 3; -1561.9; 18-JUL-2009 02:29:30; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38591  
 4; -910.6; 18-JUL-2009 02:40:21; Dark ; 62.0; 94; 92Alp Cet ; 2.53; 3100;occ; 124; 0;38591  
 5; -557.9; 18-JUL-2009 02:46:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38591  
 6; 369.2; 18-JUL-2009 03:01:41; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38592  
 7; 706.5; 18-JUL-2009 03:07:19; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;38592

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10; 2153.3; 18-JUL-2009 03:31:25; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;38592
11; 2761.3; 18-JUL-2009 03:41:33; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38592
12; 2891.3; 18-JUL-2009 03:43:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38592
13; 3190.1; 18-JUL-2009 03:48:42; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38592
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5;-1740.2; 18-JUL-2009 04:07:08; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38592
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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9; 370.3; 18-JUL-2009 04:42:18; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38593
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11; 799.7; 18-JUL-2009 04:49:28; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38593
12; 993.1; 18-JUL-2009 04:52:41; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38593
13; 2153.1; 18-JUL-2009 05:12:01; Bright; 37.5; 168; 17Zet Aql ; 2.99; 11000;occ; 75; 0;38593
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16; 3189.6; 18-JUL-2009 05:29:18; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38593
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3;-2002.4; 18-JUL-2009 05:43:22; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;38593
4;-1919.2; 18-JUL-2009 05:44:45; Bright; 55.0; 35; 33Alp Per ; 1.79; 6250;occ; 110; 0;38593
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6;-1561.7; 18-JUL-2009 05:50:42; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38593
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13; 2153.1; 18-JUL-2009 06:52:37; Bright; 39.0; 168; 17Zet Aql ; 2.99; 11000;occ; 78; 0;38594
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9; 4115.5; 18-JUL-2009 20:50:07; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38602
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16; 4475.4; 18-JUL-2009 22:36:43; Dark ; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;38603
17; 4634.7; 18-JUL-2009 22:39:22; Dark ; 47.0; 146; 25Eta Tau ; 2.87; 15200;occ; 94; 0;38603
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15; 2878.9; 19-JUL-2009 06:33:06; Bright; 48.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 97; 0;38608
16; 3181.2; 19-JUL-2009 06:38:08; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38608
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090721\_084847\_000043672081\_00007\_38638\_4525.N1

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17; 6903.4; 25-JUL-2009 12:53:28; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38697
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5; 3552.9; 25-JUL-2009 13:38:13; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38698
6; 4008.8; 25-JUL-2009 13:45:49; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;38698
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 9; 4488.6; 25-JUL-2009 13:53:49; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38698  
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 14; 5928.6; 25-JUL-2009 14:17:49; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38698  
 15; 6527.7; 25-JUL-2009 14:27:48; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38698  
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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  
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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  
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 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  
 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  
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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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 3; 2815.7; 25-JUL-2009 16:47:08; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38700  
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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  
 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  
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 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  
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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  
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 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  
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 15; 5604.4; 25-JUL-2009 19:14:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38701  
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5; 871.6; 26-JUL-2009 00:37:44; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38705
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
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6; 1064.0; 26-JUL-2009 02:21:32; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38706
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15; 6007.3; 31-JUL-2009 16:11:14; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;38785
16; 6623.8; 31-JUL-2009 16:21:30; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38785
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 3; 2582.3; 31-JUL-2009 16:54:45; Bright; 42.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 85; 0;38786
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 7; 3600.2; 31-JUL-2009 17:11:42; Bright; 51.0; 76; 27Gam Cas ; 2.30; 30000;occ; 102; 0;38786
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16; 6624.8; 31-JUL-2009 18:02:07; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38786
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