

# GOMOS Daily Report 17-SEP-2009

## Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	20SEP2009 04:41:57
Data source version	GOMOS/5.00
Start time of products	17SEP2009 00:07:24
Stop time of products	17SEP2009 23:37:25
Store outputs in DB	Yes
Nb of level 1b prods	80
Nb of prods with errors	1

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

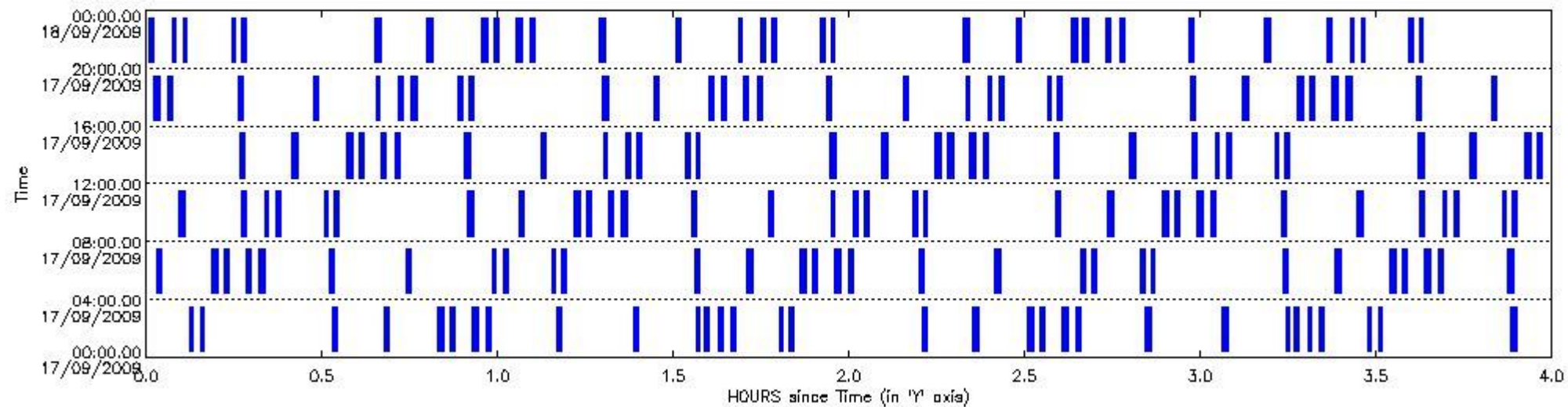
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

No missing products.

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

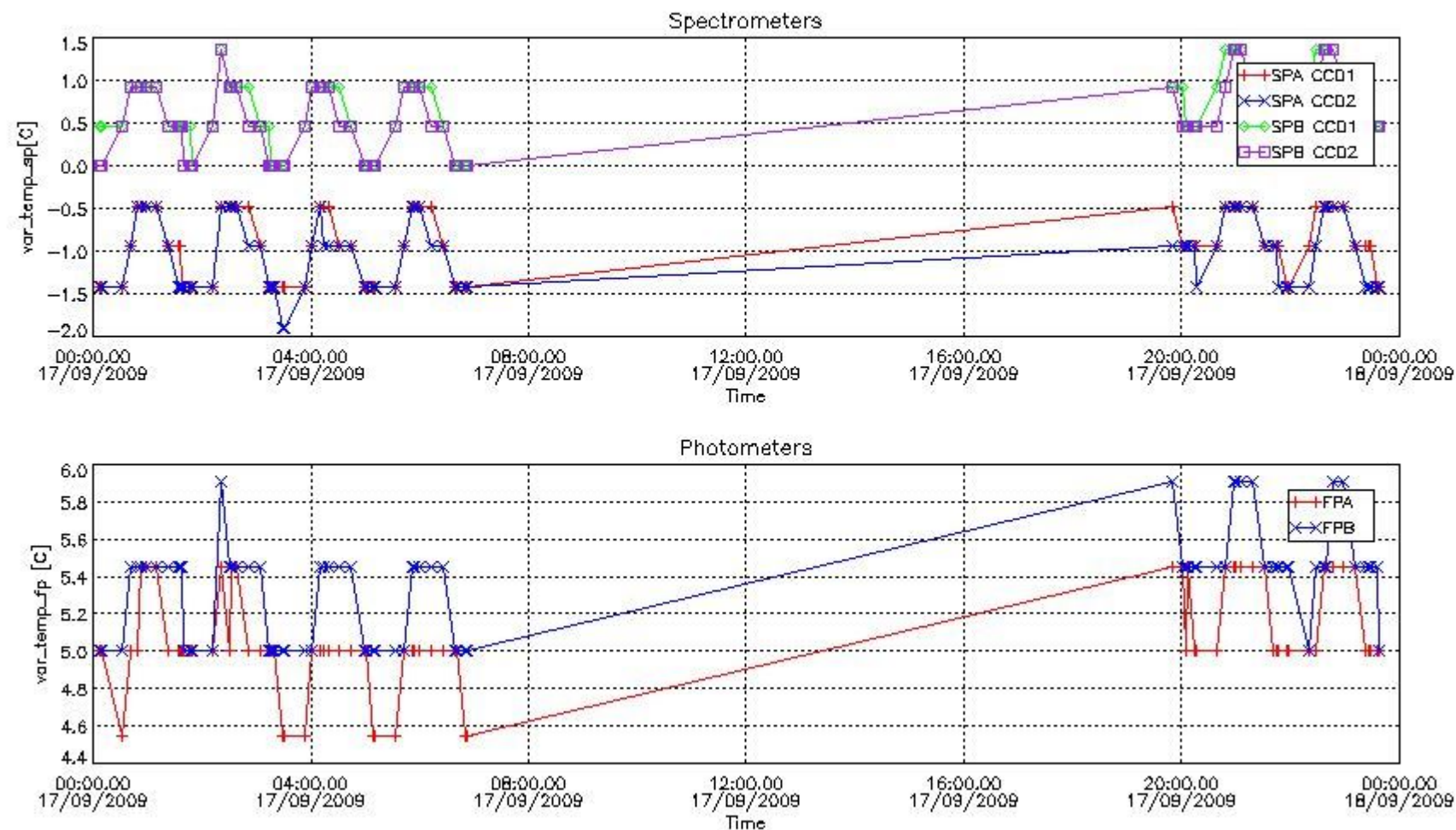
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090917_000724_000000382082_00331_39463_7195.N1	17-SEP-2009 00:07:24	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	39463	No
2	GOM_TRA_1PNPDE20090917_000910_000000442082_00331_39463_7196.N1	17-SEP-2009 00:09:10	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39463	No
3	GOM_TRA_1PNPDE20090917_003146_000000482082_00331_39463_7197.N1	17-SEP-2009 00:31:46	Bright	47.500	24	66Alp Gem	1.5800	10200.	95	39463	No
4	GOM_TRA_1PNPDE20090917_004034_000000582082_00331_39463_7198.N1	17-SEP-2009 00:40:34	Dark	58.000	8	10Alp CMi	0.40000	6500.0	116	39463	No
5	GOM_TRA_1PNPDE20090917_004949_000000592082_00331_39463_7305.N1	17-SEP-2009 00:49:49	Dark	59.000	1	9Alp CMa	-1.4400	11000.	118	39463	No
6	GOM_TRA_1PNPDE20090917_005158_000000472082_00331_39463_7306.N1	17-SEP-2009 00:51:58	Dark	46.500	23	21Eps CMa	1.5020	26000.	93	39463	No
7	GOM_TRA_1PNPDE20090917_005803_000000512082_00332_39464_7307.N1	17-SEP-2009 00:58:03	Dark	50.500	108	Alp Col	2.6520	15200.	101	39464	No
8	GOM_TRA_1PNPDE20090917_011002_000000552082_00332_39464_7308.N1	17-SEP-2009 01:10:02	Dark	54.500	157	The1Eri	2.9060	9300.0	109	39464	No
9	GOM_TRA_1PNPDE20090917_012308_000000572082_00332_39464_7309.N1	17-SEP-2009 01:23:08	Twilight	56.500	52	16Bet Cet	2.0370	4500.0	113	39464	No
10	GOM_TRA_1PNPDE20090917_013355_000000392082_00332_39464_7310.N1	17-SEP-2009 01:33:55	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	39464	No
11	GOM_TRA_1PNPDE20090917_013519_000000482082_00332_39464_7311.N1	17-SEP-2009 01:35:19	Bright	48.000	140	88Gam Peg	2.8340	26000.	96	39464	No
12	GOM_TRA_1PNPDE20090917_013746_000000492082_00332_39464_7312.N1	17-SEP-2009 01:37:46	Bright	48.500	93	53Bet Peg	2.5200	3100.0	97	39464	No

13	GOM_TRA_1PNPDE20090917_013944_000000462082_00332_39464_7313.N1	17-SEP-2009 01:39:44	Bright	46.000	58	21Alp And	2.0730	11000.	92	39464	No
14	GOM_TRA_1PNPDE20090917_014759_000000412082_00332_39464_7314.N1	17-SEP-2009 01:47:59	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	39464	No
15	GOM_TRA_1PNPDE20090917_014945_000000442082_00332_39464_7315.N1	17-SEP-2009 01:49:45	Bright	43.500	76	27Gam Cas	2.3000	30000.	87	39464	No
16	GOM_TRA_1PNPDE20090917_021222_000000632082_00332_39464_7316.N1	17-SEP-2009 02:12:22	Bright	63.000	24	66Alp Gem	1.5800	10200.	126	39464	No
17	GOM_TRA_1PNPDE20090917_022110_000000642082_00332_39464_7456.N1	17-SEP-2009 02:21:10	Dark	64.000	8	10Alp CMi	0.40000	6500.0	128	39464	Yes
18	GOM_TRA_1PNPDE20090917_023026_000000622082_00332_39464_7457.N1	17-SEP-2009 02:30:26	Dark	61.500	1	9Alp CMa	-1.4400	11000.	123	39464	No
19	GOM_TRA_1PNPDE20090917_023235_000000482082_00332_39464_7458.N1	17-SEP-2009 02:32:35	Dark	48.000	23	21Eps CMa	1.5020	26000.	96	39464	No
20	GOM_TRA_1PNPDE20090917_023840_000000532082_00333_39465_7459.N1	17-SEP-2009 02:38:40	Dark	53.000	108	Alp Col	2.6520	15200.	106	39465	No
21	GOM_TRA_1PNPDE20090917_025038_000000552082_00333_39465_7460.N1	17-SEP-2009 02:50:38	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39465	No
22	GOM_TRA_1PNPDE20090917_030344_000000582082_00333_39465_7461.N1	17-SEP-2009 03:03:44	Twi_and_stray	57.500	52	16Bet Cet	2.0370	4500.0	115	39465	No
23	GOM_TRA_1PNPDE20090917_031431_000000392082_00333_39465_7462.N1	17-SEP-2009 03:14:31	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	39465	No
24	GOM_TRA_1PNPDE20090917_031554_000000482082_00333_39465_7463.N1	17-SEP-2009 03:15:54	Bright	48.000	140	88Gam Peg	2.8340	26000.	96	39465	No
25	GOM_TRA_1PNPDE20090917_031822_000000412082_00333_39465_7464.N1	17-SEP-2009 03:18:22	Bright	41.000	93	53Bet Peg	2.5200	3100.0	82	39465	No
26	GOM_TRA_1PNPDE20090917_032019_000000472082_00333_39465_7465.N1	17-SEP-2009 03:20:19	Bright	46.500	58	21Alp And	2.0730	11000.	93	39465	No
27	GOM_TRA_1PNPDE20090917_032834_000000412082_00333_39465_7466.N1	17-SEP-2009 03:28:34	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	39465	No
28	GOM_TRA_1PNPDE20090917_033020_000000422082_00333_39465_7467.N1	17-SEP-2009 03:30:20	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39465	No
29	GOM_TRA_1PNPDE20090917_035258_000000632082_00333_39465_7592.N1	17-SEP-2009 03:52:58	Bright	63.000	24	66Alp Gem	1.5800	10200.	126	39465	No
30	GOM_TRA_1PNPDE20090917_040147_000000522082_00333_39465_7593.N1	17-SEP-2009 04:01:47	Dark	52.000	8	10Alp CMi	0.40000	6500.0	104	39465	No
31	GOM_TRA_1PNPDE20090917_041103_000000672082_00333_39465_7594.N1	17-SEP-2009 04:11:03	Dark	67.000	1	9Alp CMa	-1.4400	11000.	134	39465	No
32	GOM_TRA_1PNPDE20090917_041312_000000492082_00333_39465_7595.N1	17-SEP-2009 04:13:12	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	39465	No
33	GOM_TRA_1PNPDE20090917_041917_000000512082_00334_39466_7596.N1	17-SEP-2009 04:19:17	Dark	51.000	108	Alp Col	2.6520	15200.	102	39466	No
34	GOM_TRA_1PNPDE20090917_043116_000000542082_00334_39466_7597.N1	17-SEP-2009 04:31:16	Dark	53.500	157	The1Eri	2.9060	9300.0	107	39466	No
35	GOM_TRA_1PNPDE20090917_044420_000000562082_00334_39466_7598.N1	17-SEP-2009 04:44:20	Twi_and_stray	55.500	52	16Bet Cet	2.0370	4500.0	111	39466	No
36	GOM_TRA_1PNPDE20090917_045858_000000412082_00334_39466_7599.N1	17-SEP-2009 04:58:58	Bright	40.500	93	53Bet Peg	2.5200	3100.0	81	39466	No
37	GOM_TRA_1PNPDE20090917_050055_000000552082_00334_39466_7600.N1	17-SEP-2009 05:00:55	Bright	55.000	58	21Alp And	2.0730	11000.	110	39466	No
38	GOM_TRA_1PNPDE20090917_050910_000000412082_00334_39466_7601.N1	17-SEP-2009 05:09:10	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	39466	No
39	GOM_TRA_1PNPDE20090917_051055_000000432082_00334_39466_7602.N1	17-SEP-2009 05:10:55	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	39466	No
40	GOM_TRA_1PNPDE20090917_053334_000000462082_00334_39466_7789.N1	17-SEP-2009 05:33:34	Bright	46.000	24	66Alp Gem	1.5800	10200.	92	39466	No
41	GOM_TRA_1PNPDE20090917_054223_000000642082_00334_39466_7790.N1	17-SEP-2009 05:42:23	Dark	64.000	8	10Alp CMi	0.40000	6500.0	128	39466	No
42	GOM_TRA_1PNPDE20090917_055140_000000602082_00334_39466_7791.N1	17-SEP-2009 05:51:40	Dark	60.000	1	9Alp CMa	-1.4400	11000.	120	39466	No
43	GOM_TRA_1PNPDE20090917_055349_000000492082_00334_39466_7792.N1	17-SEP-2009 05:53:49	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	39466	No
44	GOM_TRA_1PNPDE20090917_055955_000000532082_00335_39467_7793.N1	17-SEP-2009 05:59:55	Dark	52.500	108	Alp Col	2.6520	15200.	105	39467	No
45	GOM_TRA_1PNPDE20090917_061153_000000542082_00335_39467_7794.N1	17-SEP-2009 06:11:53	Dark	54.000	157	The1Eri	2.9060	9300.0	108	39467	No
46	GOM_TRA_1PNPDE20090917_062456_000000572082_00335_39467_7795.N1	17-SEP-2009 06:24:56	Twi_and_stray	57.000	52	16Bet Cet	2.0370	4500.0	114	39467	No
47	GOM_TRA_1PNPDE20090917_063934_000000412082_00335_39467_7796.N1	17-SEP-2009 06:39:34	Bright	41.000	93	53Bet Peg	2.5200	3100.0	82	39467	No
48	GOM_TRA_1PNPDE20090917_064131_000000462082_00335_39467_7797.N1	17-SEP-2009 06:41:31	Bright	45.500	58	21Alp And	2.0730	11000.	91	39467	No
49	GOM_TRA_1PNPDE20090917_064945_000000412082_00335_39467_7798.N1	17-SEP-2009 06:49:45	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	39467	No
50	GOM_TRA_1PNPDE20090917_065131_000000422082_00335_39467_7799.N1	17-SEP-2009 06:51:31	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	39467	No
51	GOM_TRA_1PNPDE20090917_194945_000000542082_00343_39475_8289.N1	17-SEP-2009 19:49:45	Twi_and_stray	53.500	52	16Bet Cet	2.0370	4500.0	107	39475	No
52	GOM_TRA_1PNPDE20090917_200029_000000392082_00343_39475_8290.N1	17-SEP-2009 20:00:29	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	39475	No
53	GOM_TRA_1PNPDE20090917_200419_000000392082_00343_39475_8291.N1	17-SEP-2009 20:04:19	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	39475	No
54	GOM_TRA_1PNPDE20090917_200613_000000452082_00343_39475_8292.N1	17-SEP-2009 20:06:13	Bright	44.500	58	21Alp And	2.0730	11000.	89	39475	No
55	GOM_TRA_1PNPDE20090917_201429_000000412082_00343_39475_8293.N1	17-SEP-2009 20:14:29	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	39475	No
56	GOM_TRA_1PNPDE20090917_201614_000000432082_00343_39475_8294.N1	17-SEP-2009 20:16:14	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39475	No
57	GOM_TRA_1PNPDE20090917_203859_000000642082_00343_39475_8295.N1	17-SEP-2009 20:38:59	Bright	63.500	24	66Alp Gem	1.5800	10200.	127	39475	No
58	GOM_TRA_1PNPDE20090917_204752_000000592082_00343_39475_8432.N1	17-SEP-2009 20:47:52	Dark	59.000	8	10Alp CMi	0.40000	6500.0	118	39475	No
59	GOM_TRA_1PNPDE20090917_205714_000000612082_00343_39475_8433.N1	17-SEP-2009 20:57:14	Dark	60.500	1	9Alp CMa	-1.4400	11000.	121	39475	No
60	GOM_TRA_1PNPDE20090917_205920_000000502082_00343_39475_8434.N1	17-SEP-2009 20:59:20	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	39475	No
61	GOM_TRA_1PNPDE20090917_210530_000000522082_00344_39476_8435.N1	17-SEP-2009 21:05:30	Dark	52.000	108	Alp Col	2.6520	15200.	104	39476	No
62	GOM_TRA_1PNPDE20090917_211725_000000532082_00344_39476_8436.N1	17-SEP-2009 21:17:25	Dark	52.500	157	The1Eri	2.9060	9300.0	105	39476	No
63	GOM_TRA_1PNPDE20090917_213021_000000582082_00344_39476_8437.N1	17-SEP-2009 21:30:21	Twi_and_stray	57.500	52	16Bet Cet	2.0370	4500.0	115	39476	No
64	GOM_TRA_1PNPDE20090917_214105_000000382082_00344_39476_8438.N1	17-SEP-2009 21:41:05	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	39476	No
65	GOM_TRA_1PNPDE20090917_214455_000000422082_00344_39476_8439.N1	17-SEP-2009 21:44:55	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	39476	No
66	GOM_TRA_1PNPDE20090917_214648_000000462082_00344_39476_8440.N1	17-SEP-2009 21:46:48	Bright	46.000	58	21Alp And	2.0730	11000.	92	39476	No
67	GOM_TRA_1PNPDE20090917_215505_000000412082_00344_39476_8441.N1	17-SEP-2009 21:55:05	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	39476	No
68	GOM_TRA_1PNPDE20090917_215649_000000432082_00344_39476_8442.N1	17-SEP-2009 21:56:49	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39476	No
69	GOM_TRA_1PNPDE20090917_221935_000000562082_00344_39476_8443.N1	17-SEP-2009 22:19:35	Bright	55.500	24	66Alp Gem	1.5800	10200.	111	39476	No
70	GOM_TRA_1PNPDE20090917_222828_000000582082_00344_39476_8444.N1	17-SEP-2009 22:28:28	Dark	58.000	8	10Alp CMi	0.40000	6500.0	116	39476	No
71	GOM_TRA_1PNPDE20090917_223751_000000662082_00344_39476_8592.N1	17-SEP-2009 22:37:51	Dark	66.000	1	9Alp CMa	-1.4400	11000.	132	39476	No



72	GOM_TRA_1PNPDE20090917_223956_000000512082_00344_39476_8593.N1	17-SEP-2009 22:39:56	Dark	51.000	23	21Eps CMa	1.5020	26000.	102	39476	No
73	GOM_TRA_1PNPDE20090917_224607_000000522082_00345_39477_8594.N1	17-SEP-2009 22:46:07	Dark	52.000	108	Alp Col	2.6520	15200.	104	39477	No
74	GOM_TRA_1PNPDE20090917_225801_000000552082_00345_39477_8595.N1	17-SEP-2009 22:58:01	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39477	No
75	GOM_TRA_1PNPDE20090917_231057_000000572082_00345_39477_8596.N1	17-SEP-2009 23:10:57	Twilight	56.500	52	16Bet Cet	2.0370	4500.0	113	39477	No
76	GOM_TRA_1PNPDE20090917_232140_000000392082_00345_39477_8597.N1	17-SEP-2009 23:21:40	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	39477	No
77	GOM_TRA_1PNPDE20090917_232530_000000412082_00345_39477_8598.N1	17-SEP-2009 23:25:30	Bright	40.500	93	53Bet Peg	2.5200	3100.0	81	39477	No
78	GOM_TRA_1PNPDE20090917_232723_000000462082_00345_39477_8599.N1	17-SEP-2009 23:27:23	Bright	46.000	58	21Alp And	2.0730	11000.	92	39477	No
79	GOM_TRA_1PNPDE20090917_233540_000000422082_00345_39477_8600.N1	17-SEP-2009 23:35:40	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	39477	No
80	GOM_TRA_1PNPDE20090917_233725_000000392082_00345_39477_8601.N1	17-SEP-2009 23:37:25	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	39477	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).

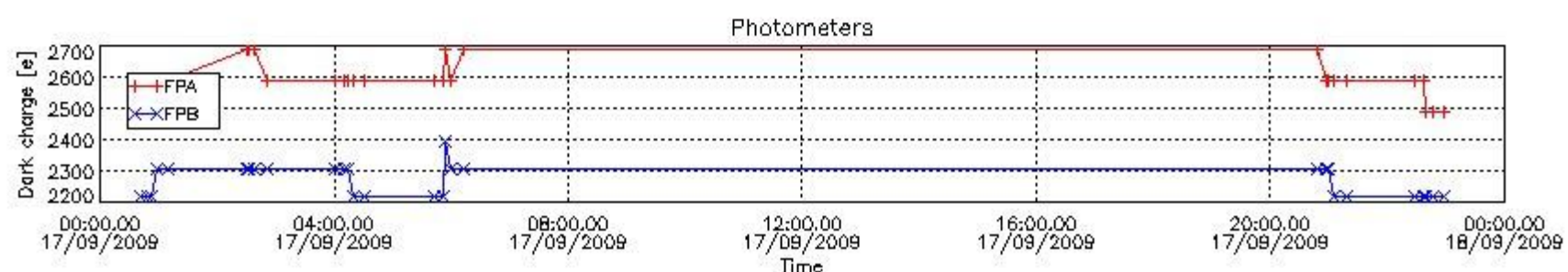
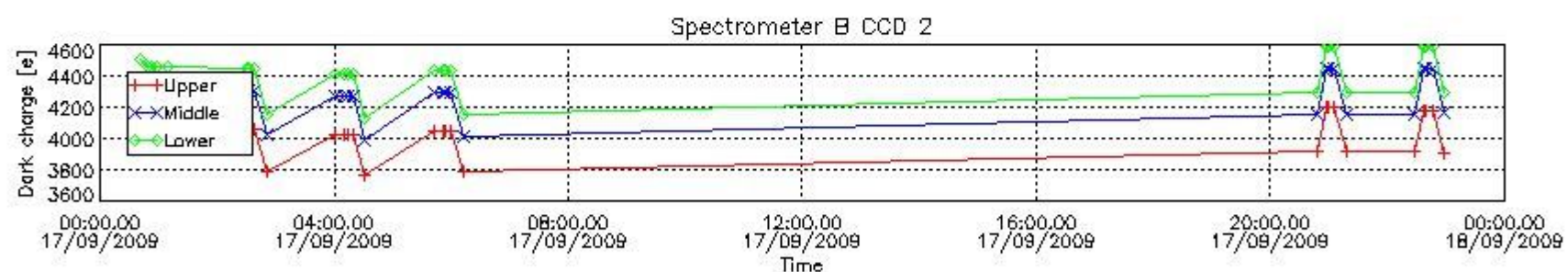
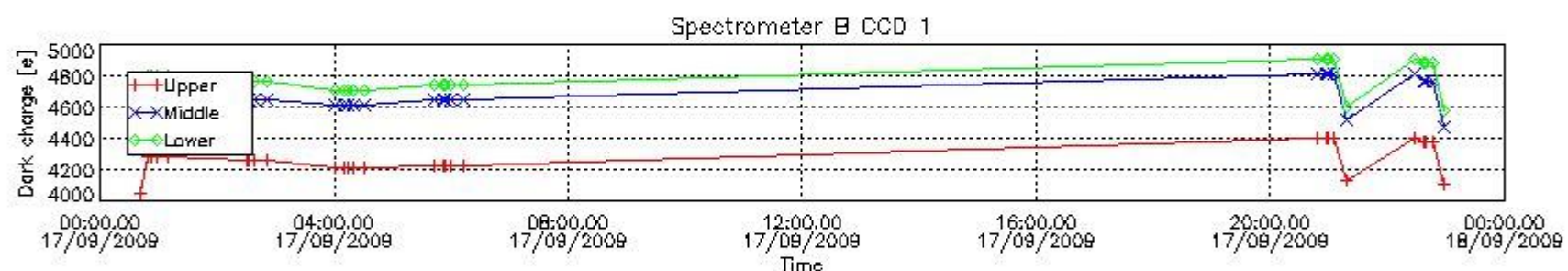
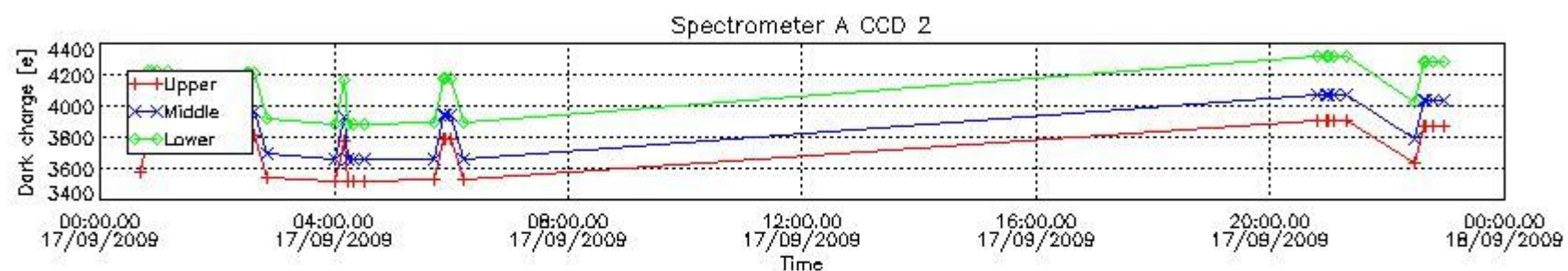
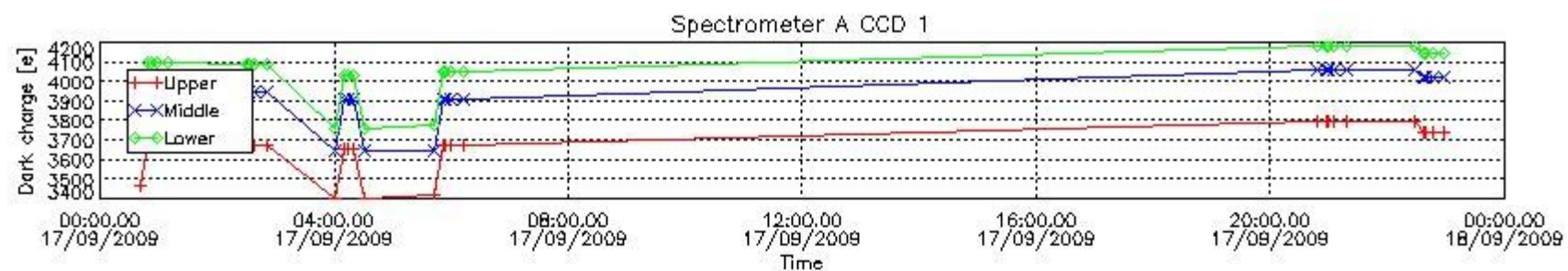
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090917_194945_000000542082_00343_39475_8289.N1	DC map used

GOM_TRA_1PNPDE20090917_200029_000000392082_00343_39475_8290.N1	DC map used
GOM_TRA_1PNPDE20090917_200419_000000392082_00343_39475_8291.N1	DC map used
GOM_TRA_1PNPDE20090917_200613_000000452082_00343_39475_8292.N1	DC map used
GOM_TRA_1PNPDE20090917_201429_000000412082_00343_39475_8293.N1	DC map used
GOM_TRA_1PNPDE20090917_201614_000000432082_00343_39475_8294.N1	DC map used
GOM_TRA_1PNPDE20090917_203859_000000642082_00343_39475_8295.N1	DC map used

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



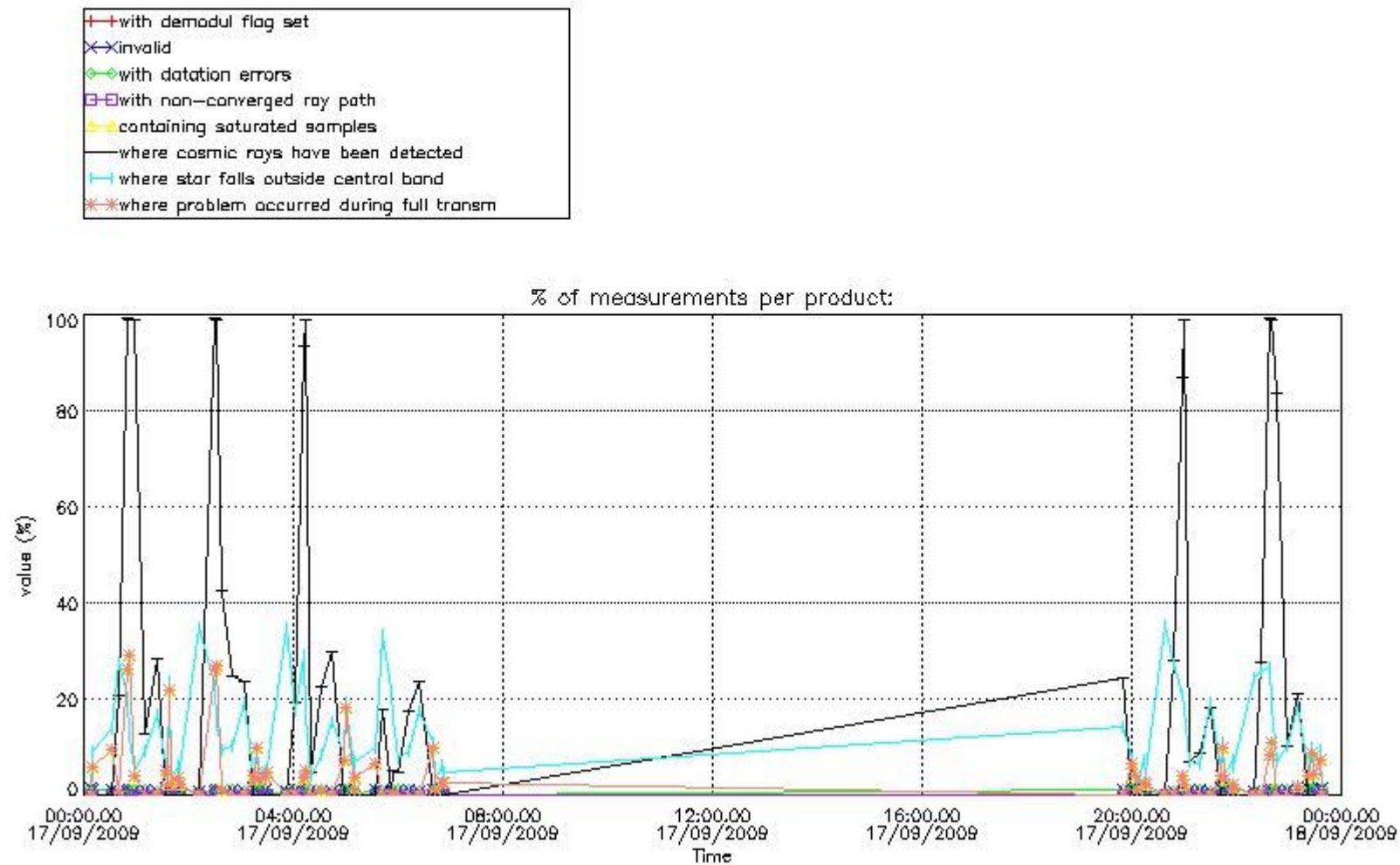
## 5. Demodulation flag and quality information monitoring

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:

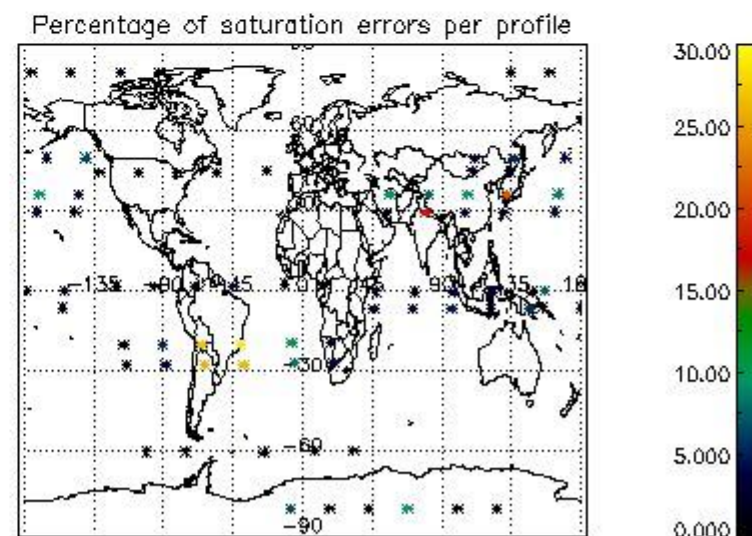
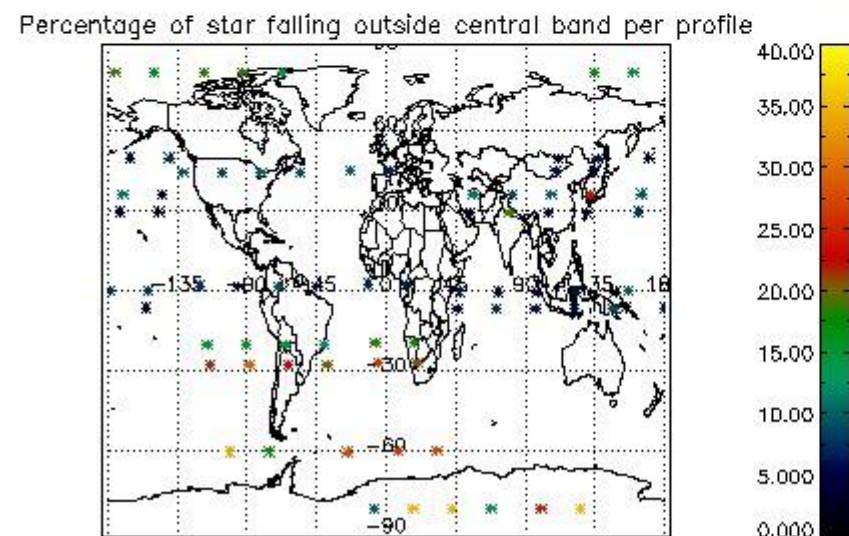
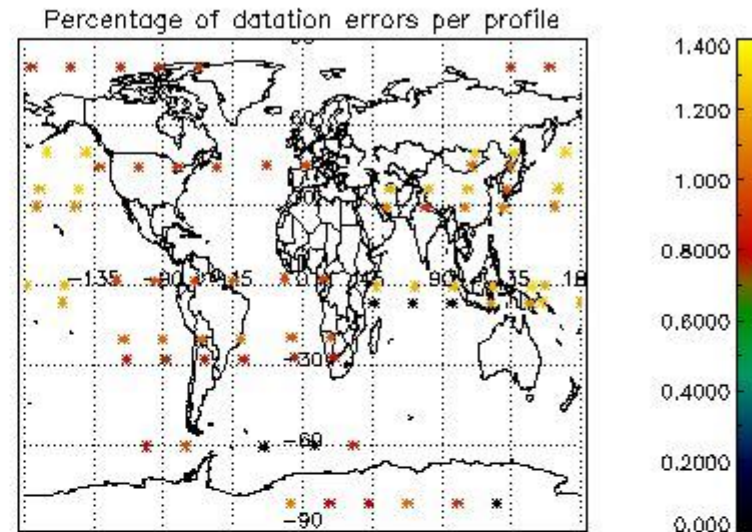
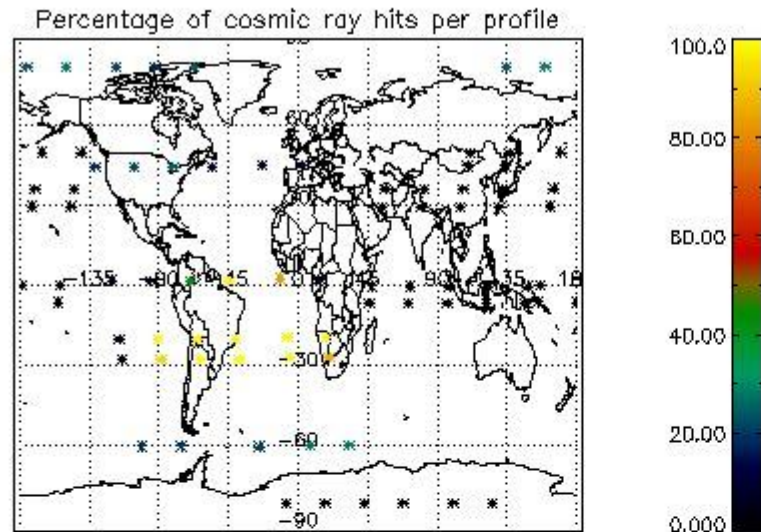
At least one measurement with demodulation flag set:	32.9114 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





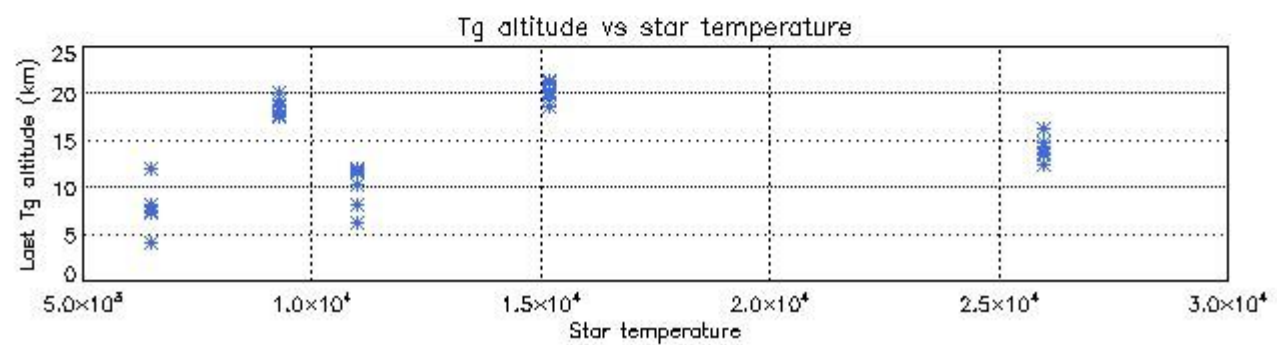
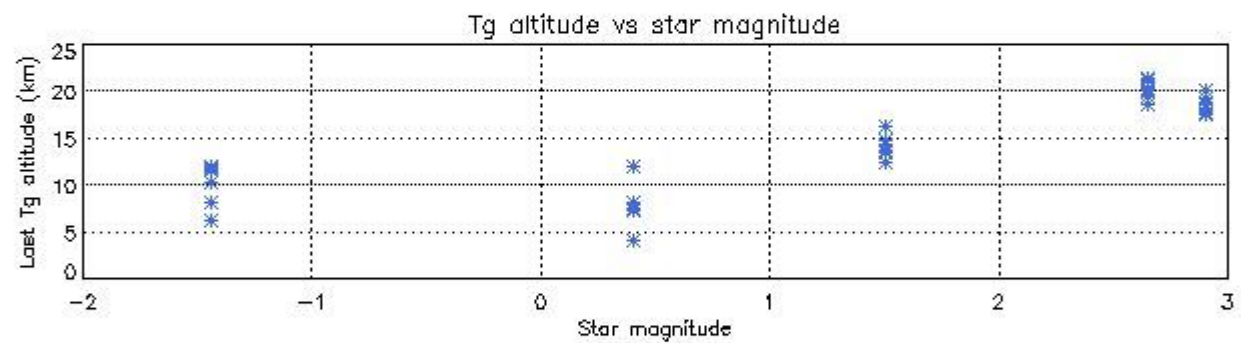
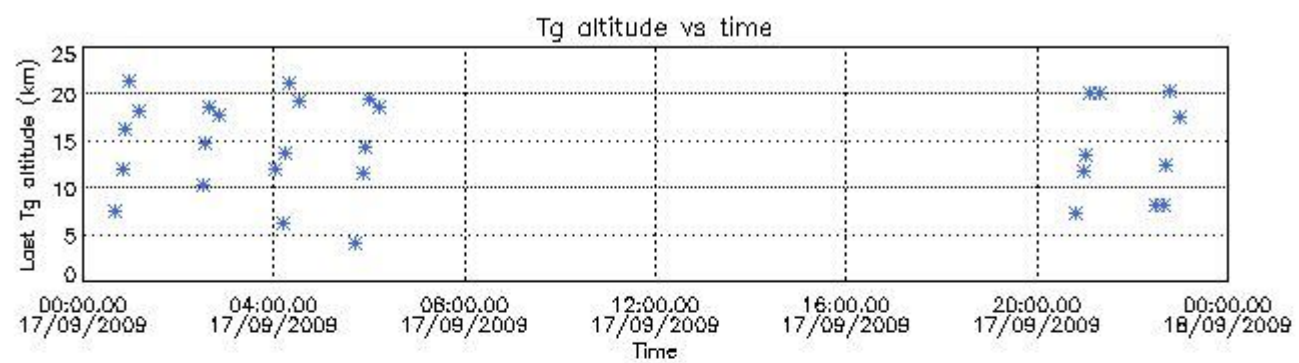
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.344	19.043	NaN
St. deviation:	5.0547	5.3482	NaN
Maximum:	21.368	27.964	NaN
Minimum:	4.1326	4.3480	NaN
Number of data:	29.000	43.000	NaN

### 6.2 Plot for DARK limb products

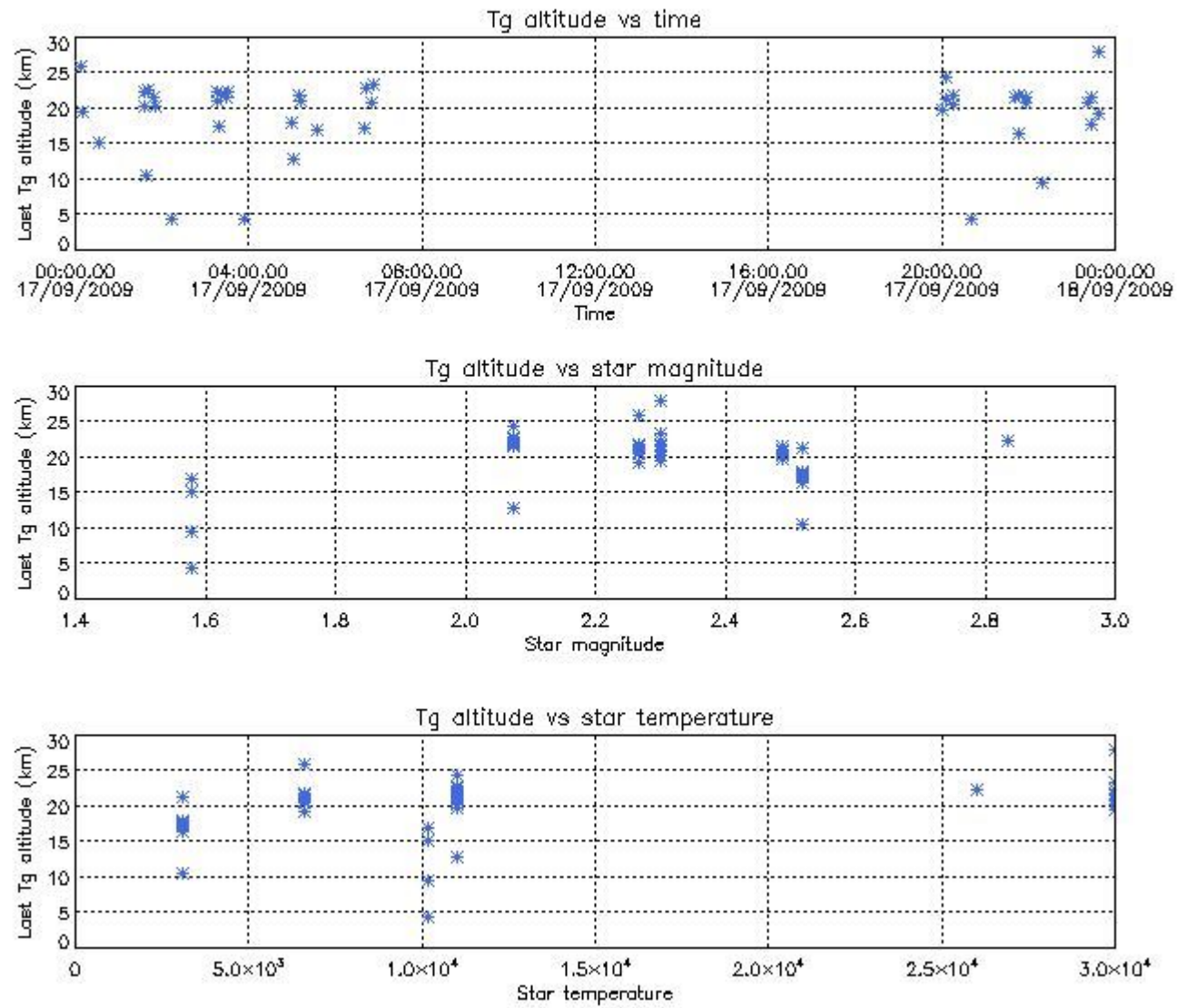
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

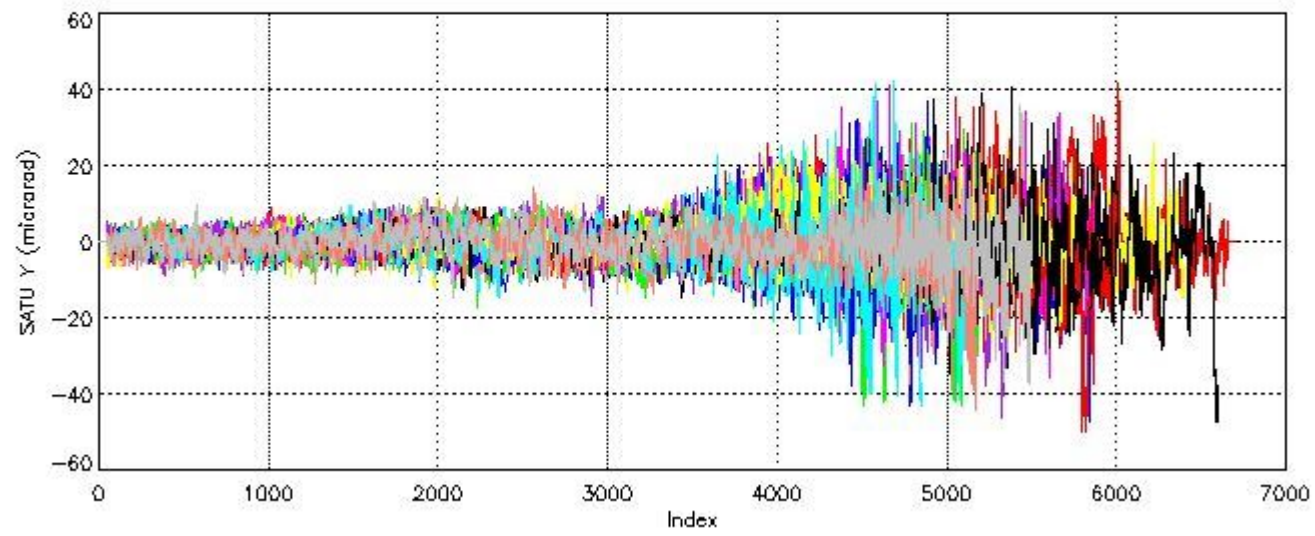
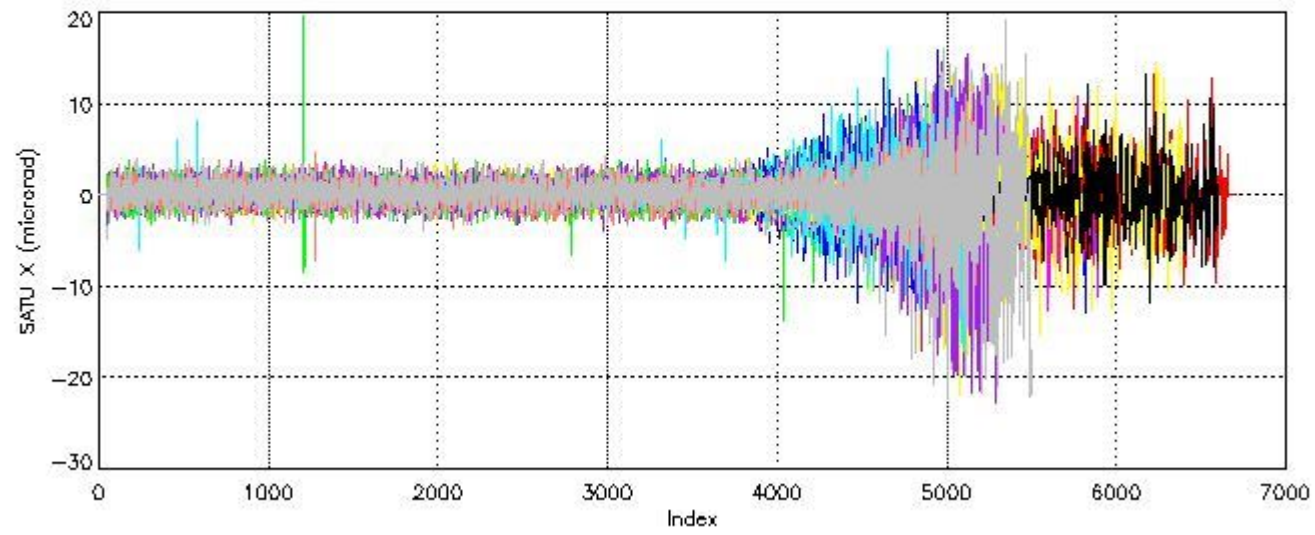


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.26620	-0.55439	0.25824	-0.61829
St. deviation:	0.58075	1.9786	0.73543	2.1024
Maximum:	8.1000	9.3000	6.1000	10.200
Minimum:	-6.1000	-9.7000	-6.3000	-12.300

Number of data:	33950.	33950.	43300.	43300.
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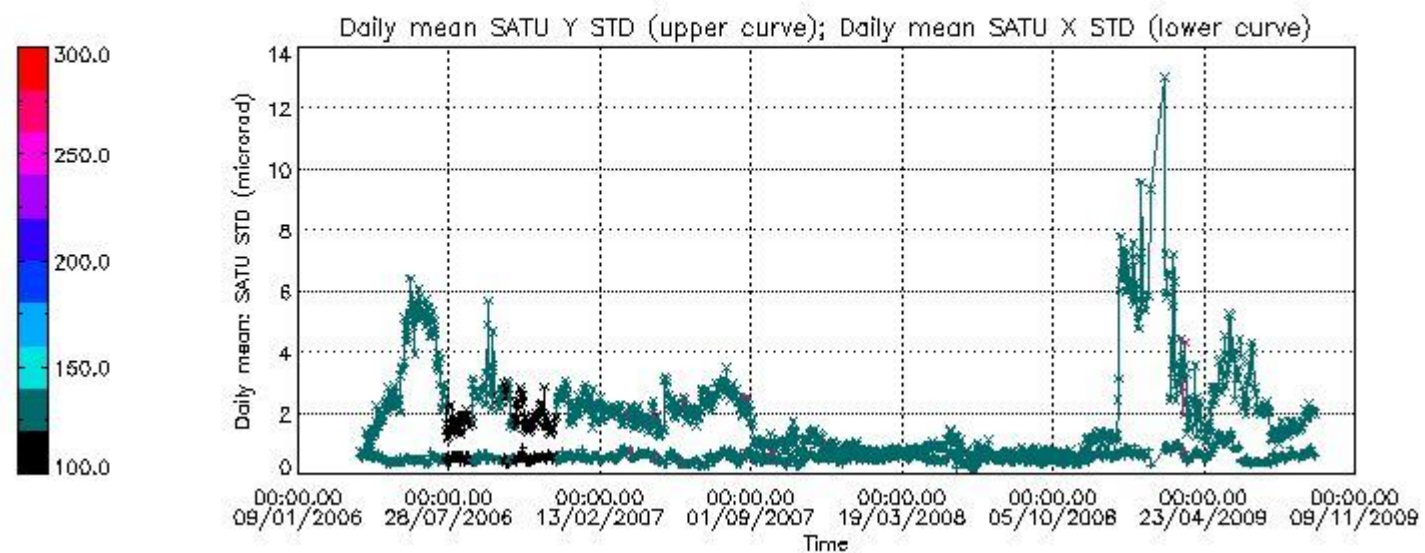
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis

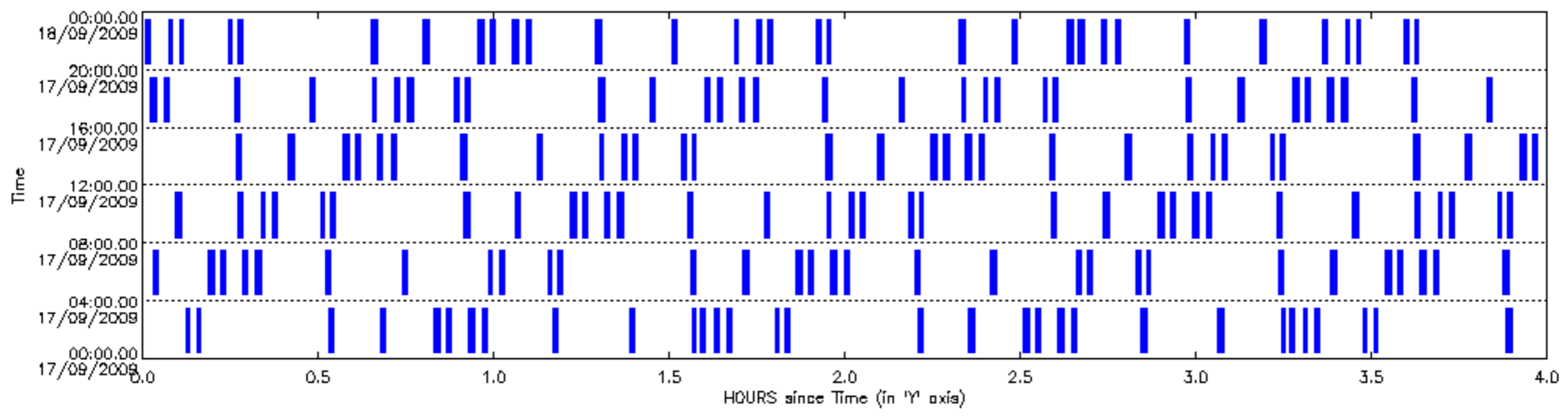


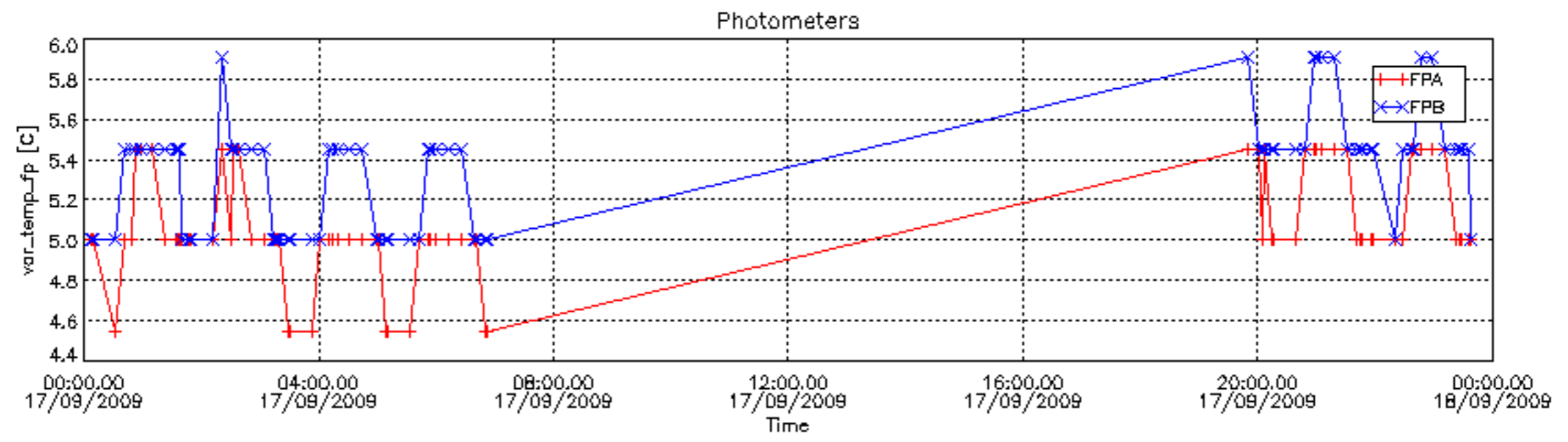
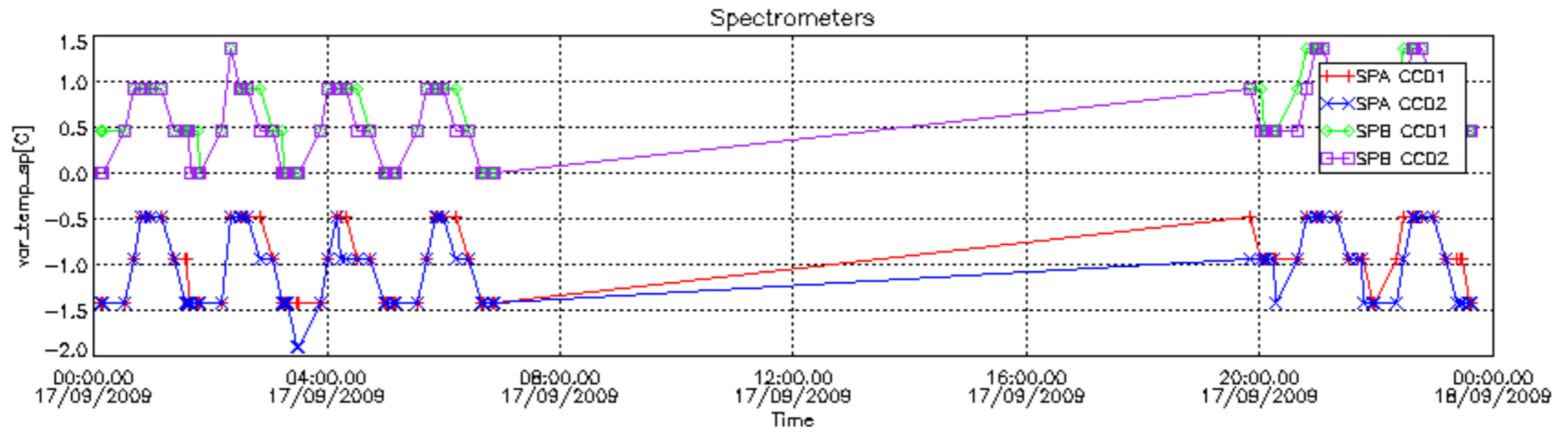
### 8. Auxiliary Data Files used for the production reported in section 2.4

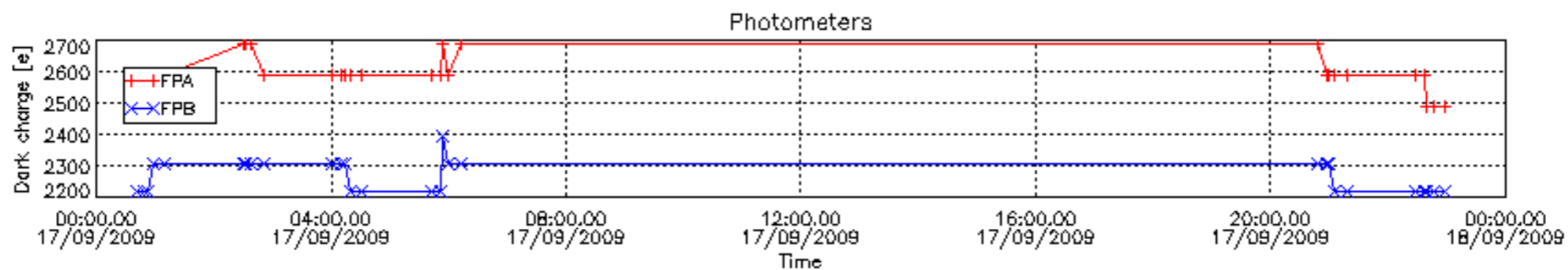
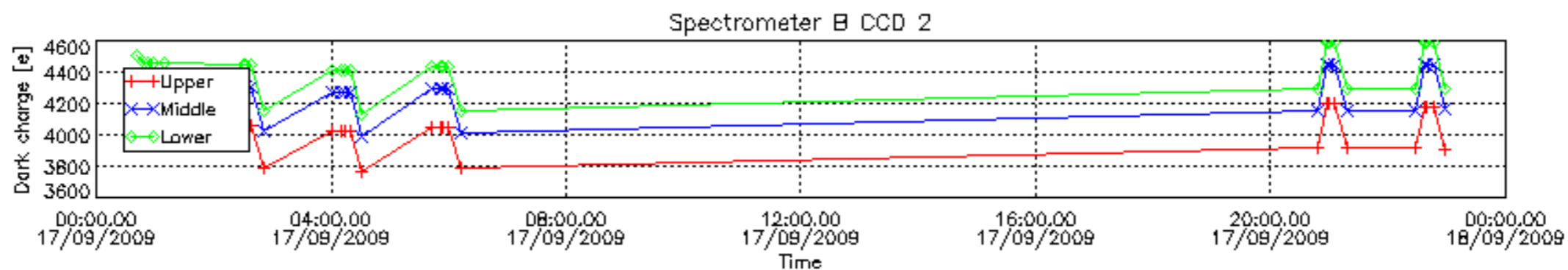
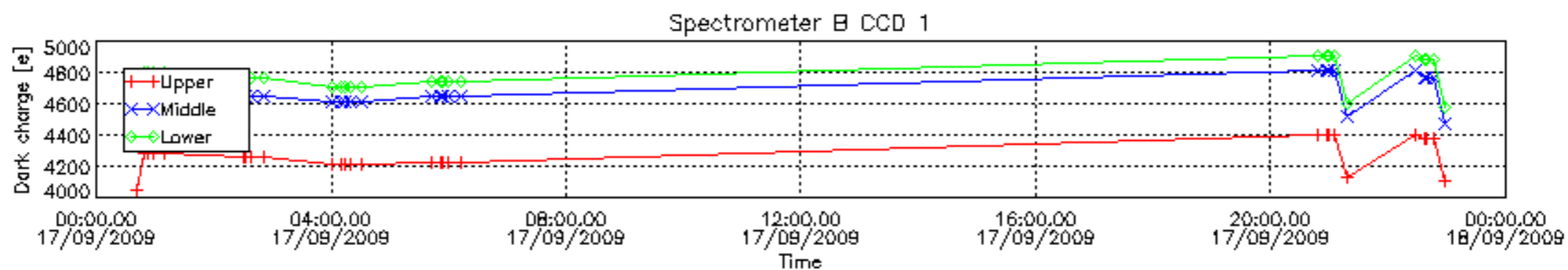
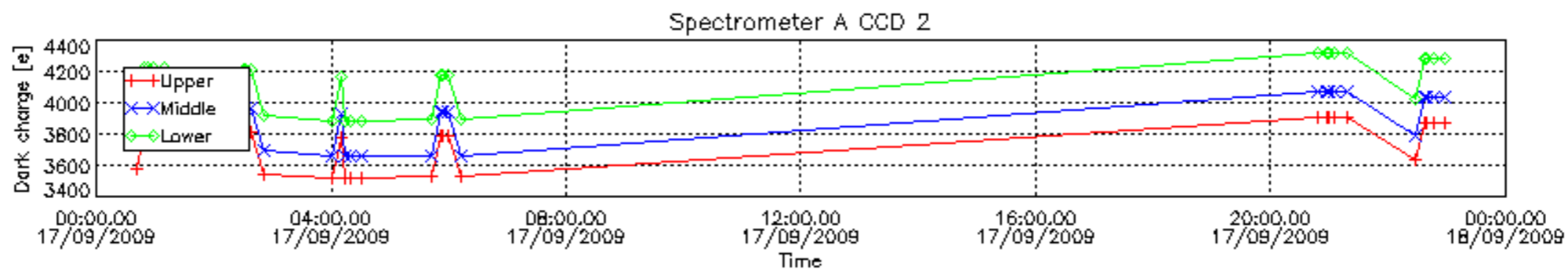
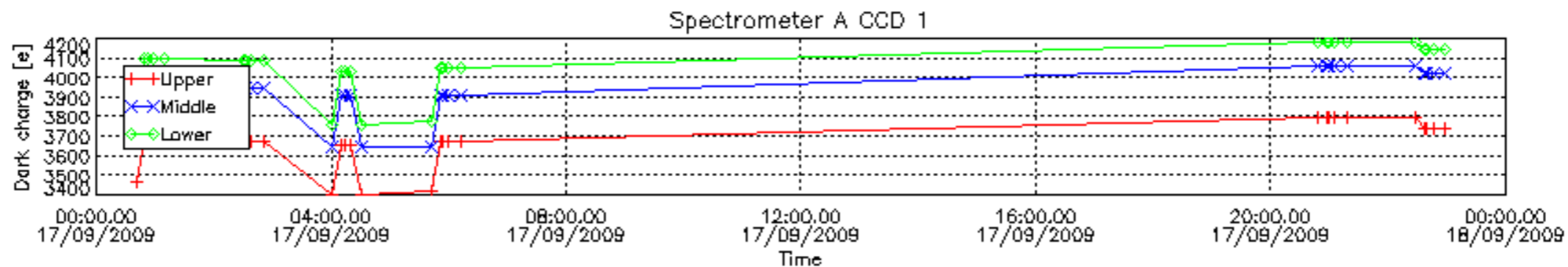
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-SEP-2009 00:07:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090915_081651_20090913_000000_20100101_000000	1	17-SEP-2009 00:07:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-SEP-2009 00:07:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-SEP-2009 00:07:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-SEP-2009 00:07:24
ECMWF_FILE	AUX_ECF_AXNECM20090916_064113_20090916_210000_20090917_090000	1	17-SEP-2009 00:07:24
ECMWF_FILE	AUX_ECF_AXNECM20090916_184113_20090917_030000_20090917_150000	29	17-SEP-2009 03:52:58
ECMWF_FILE	AUX_ECF_AXNECM20090917_064110_20090917_150000_20090918_030000	51	17-SEP-2009 19:49:45
ECMWF_FILE	AUX_ECF_AXNECM20090917_064111_20090917_210000_20090918_090000	71	17-SEP-2009 22:37:51
OPTIONAL_ECMWF_FILE	MISSING	1	17-SEP-2009 00:07:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090916_230140_000057382082_00330_39462_8775.N1	1	17-SEP-2009 00:07:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090917_021816_000041442082_00332_39464_8777.N1	17	17-SEP-2009 02:21:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090917_051854_000057382082_00334_39466_8779.N1	40	17-SEP-2009 05:33:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090917_193938_000035072082_00343_39475_8780.N1	51	17-SEP-2009 19:49:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090917_204324_000060572082_00343_39475_8781.N1	71	17-SEP-2009 22:37:51





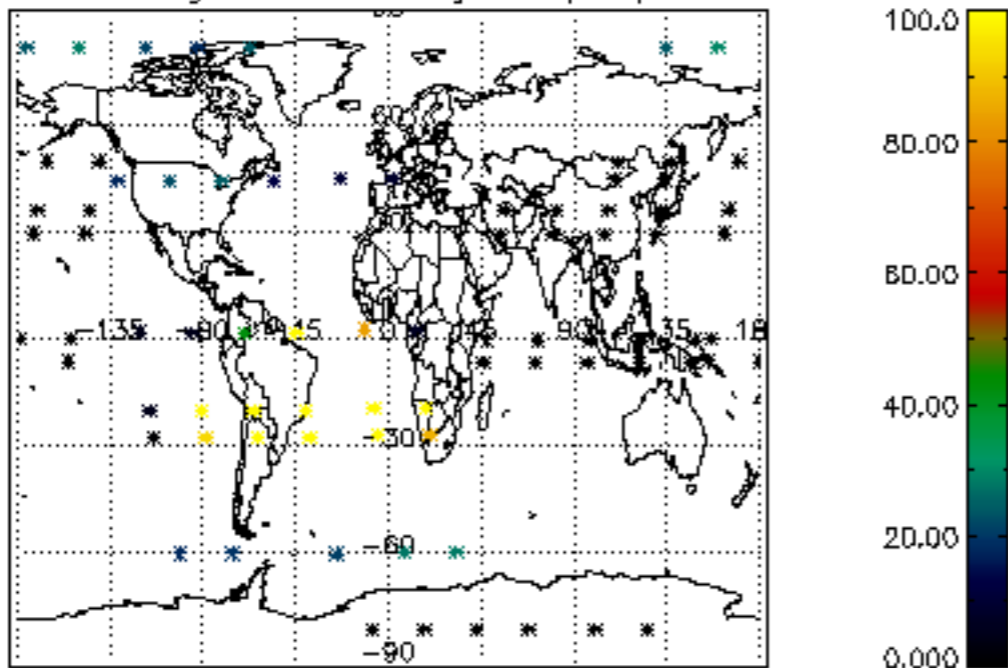




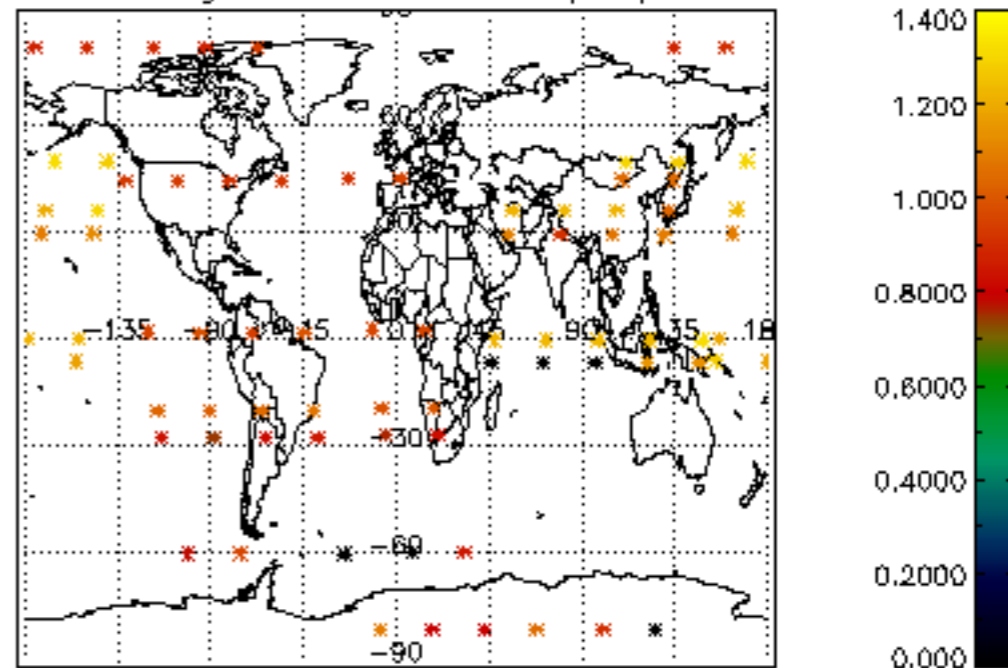




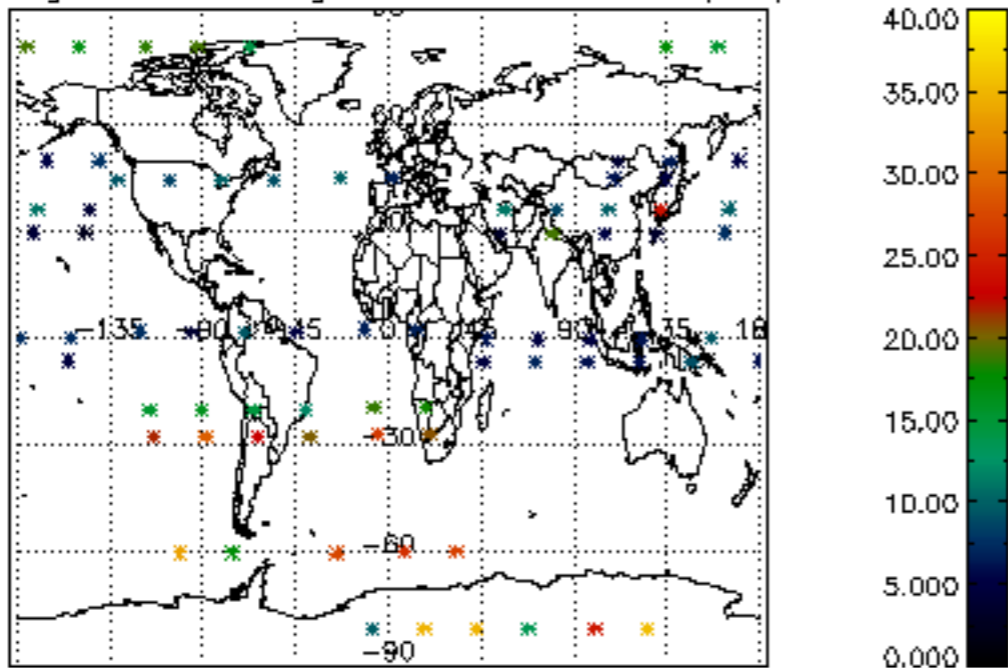
Percentage of cosmic ray hits per profile



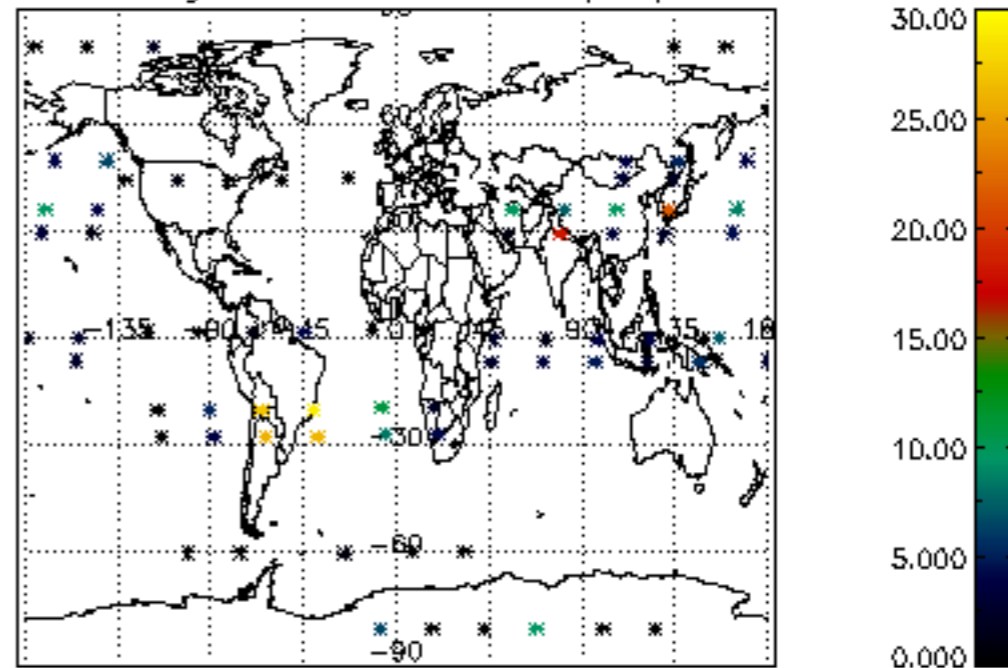
Percentage of datation errors per profile



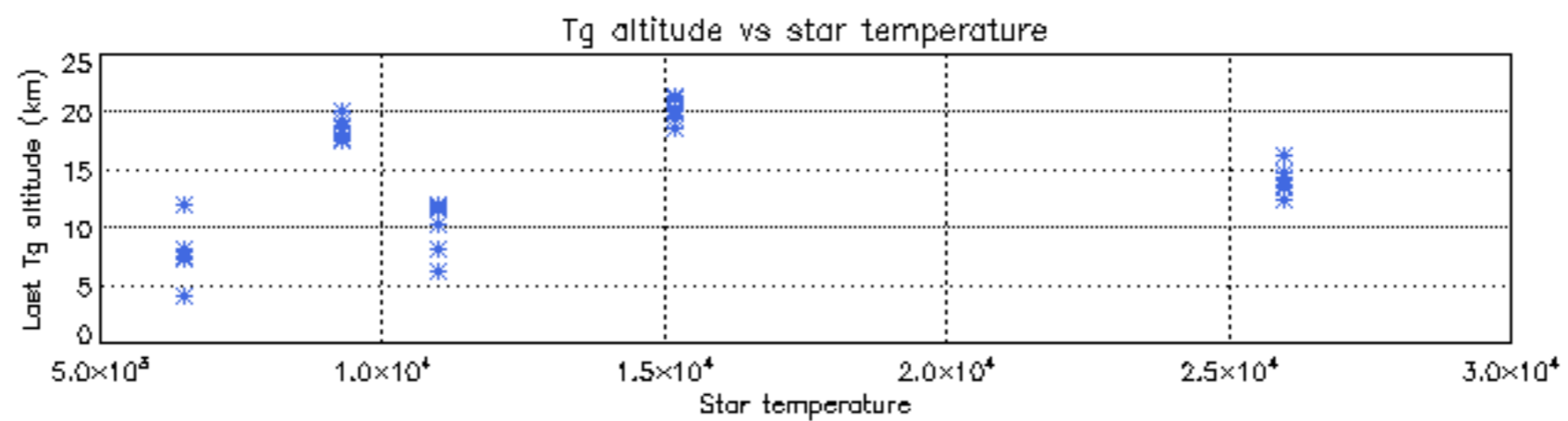
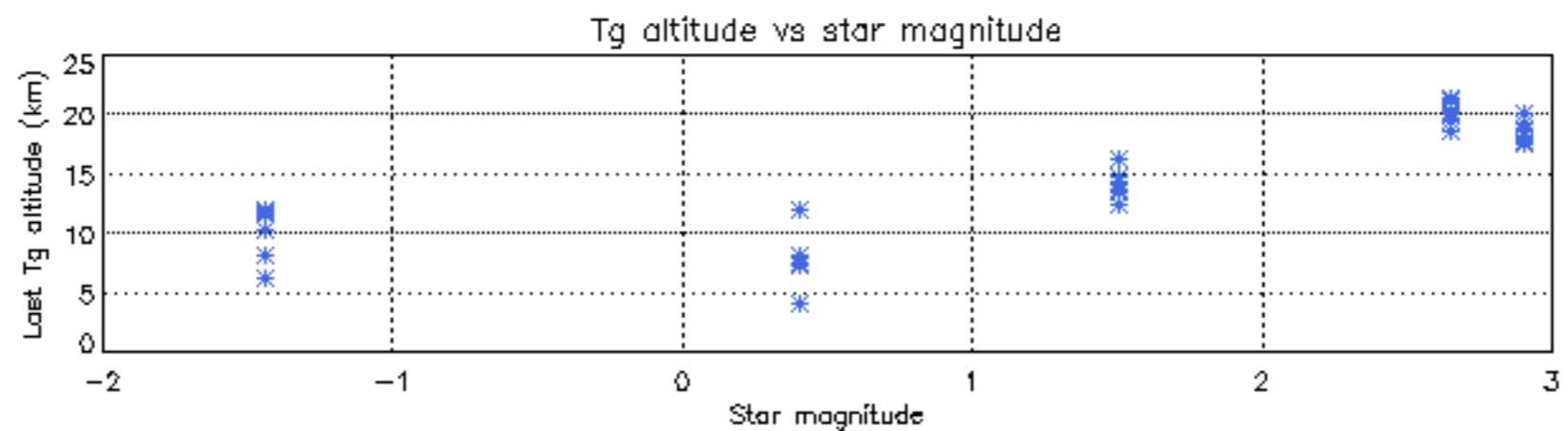
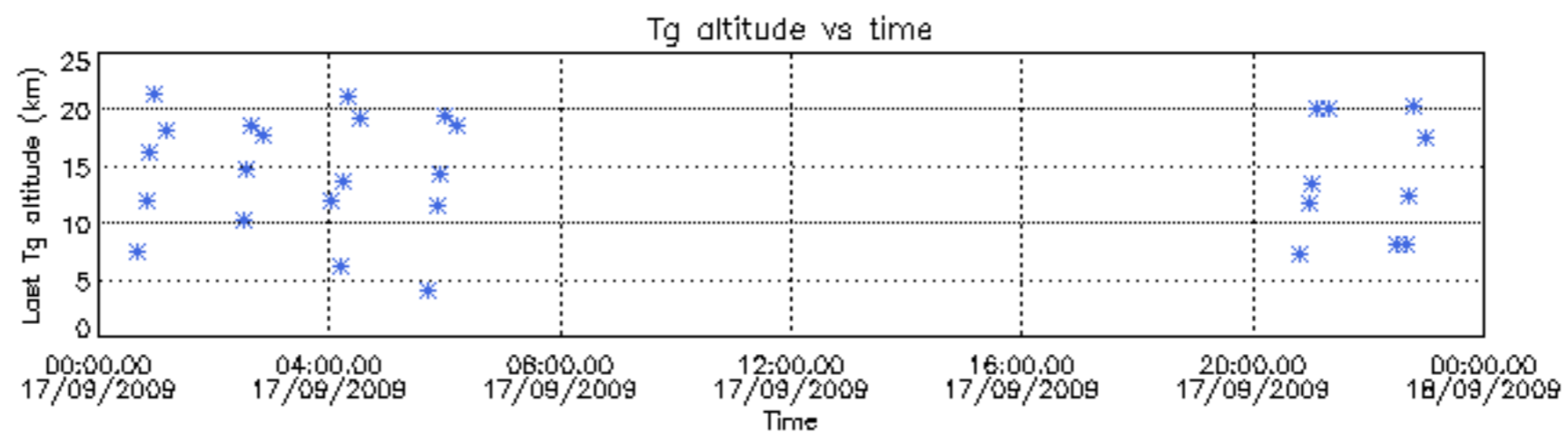
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

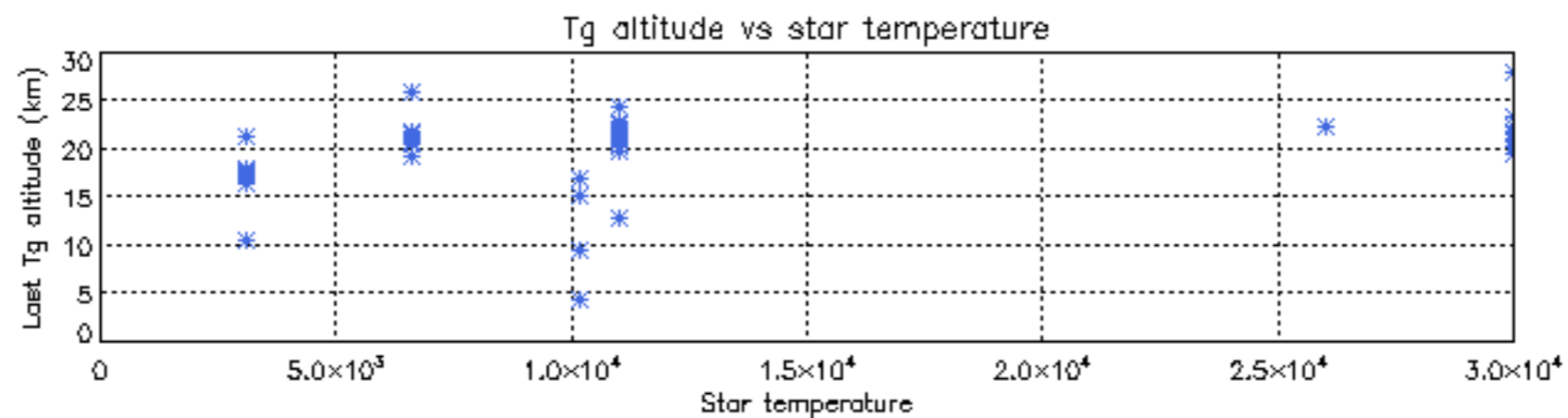
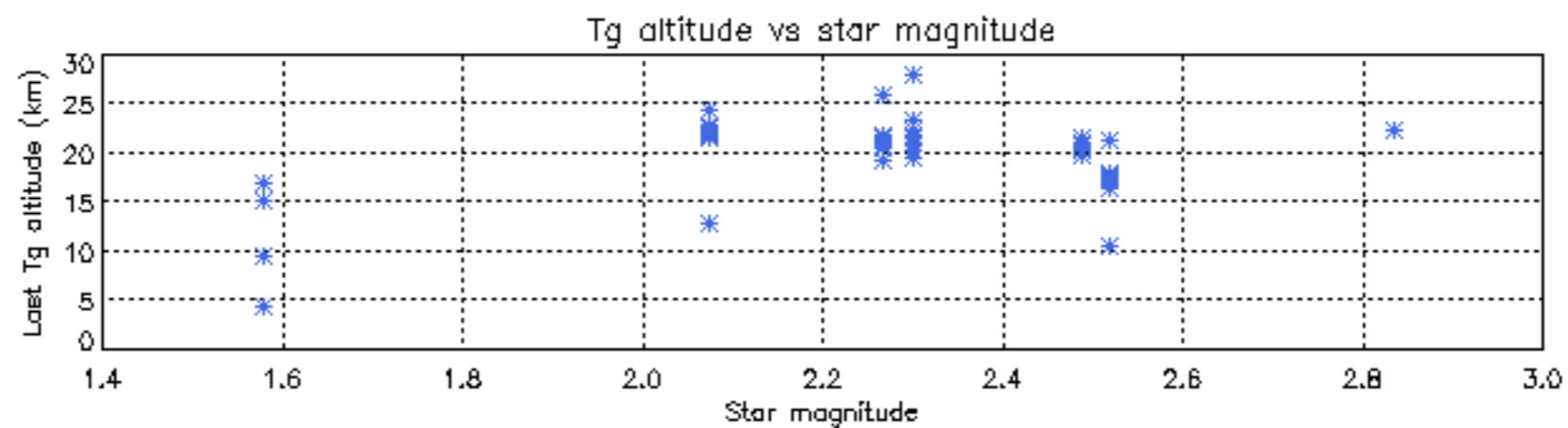
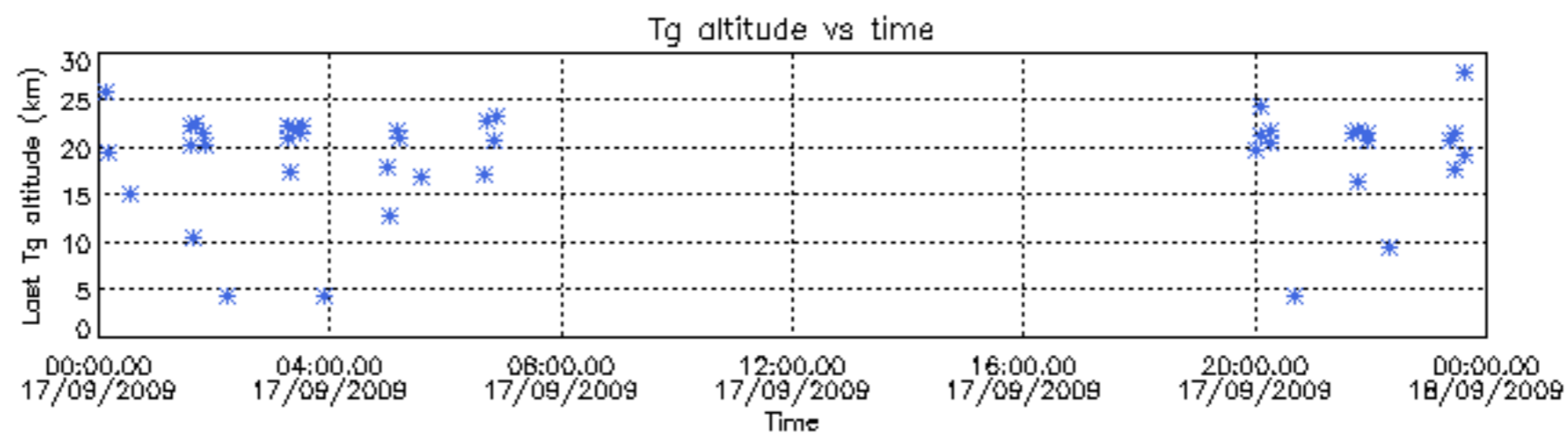


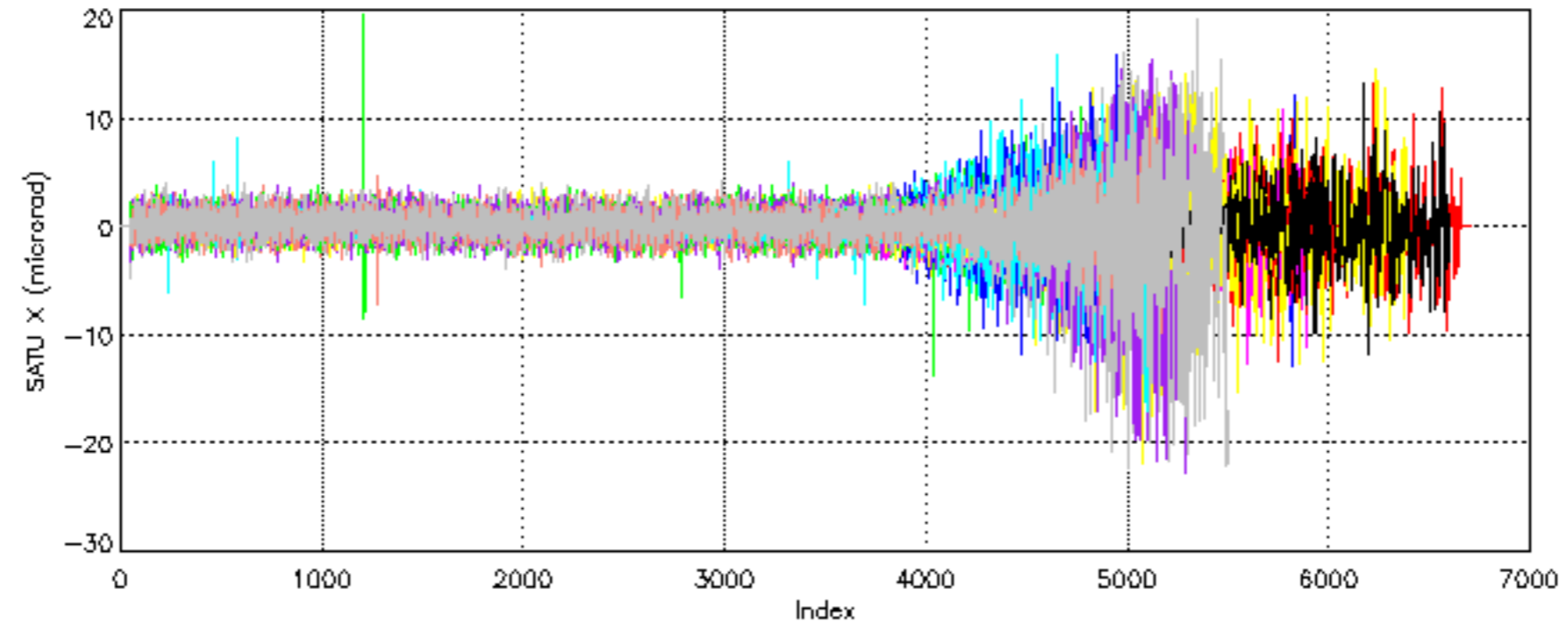
Tangent altitude at which the star is lost

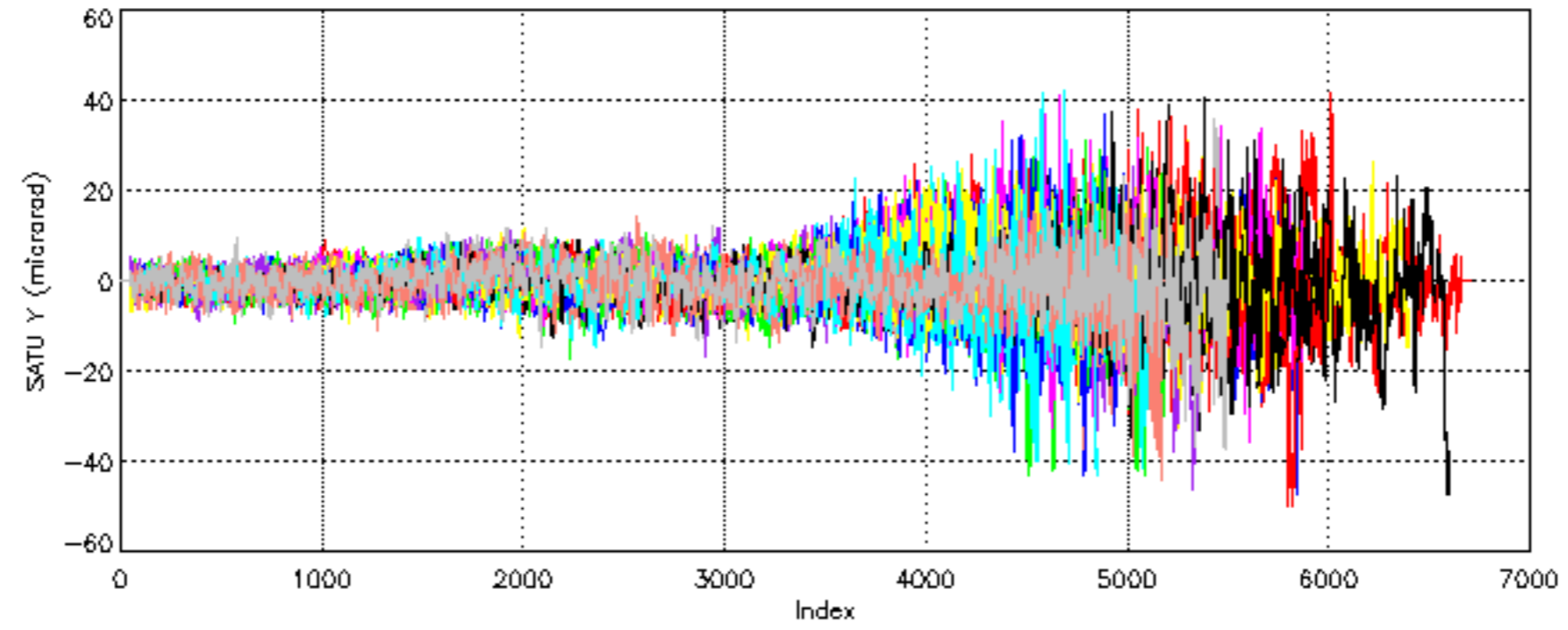


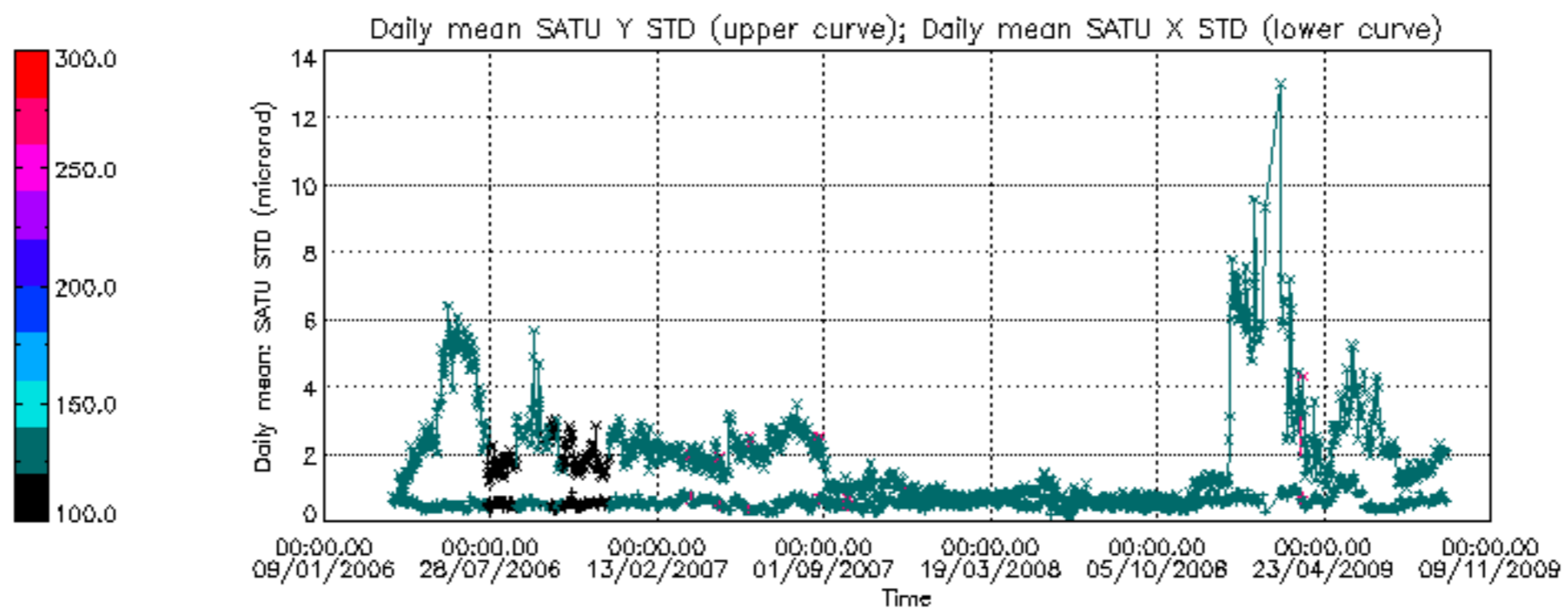


Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090901\_004836\_000055572082\_00102\_39234\_8472.N1

1; -717.2; 01-SEP-2009 00:48:36; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39234  
 2; -585.8; 01-SEP-2009 00:50:47; Dark ; 48.5; 47; 2Bet CMa ; 1.98; 28000;occ; 97; 0;39234  
 3; -413.8; 01-SEP-2009 00:53:39; Dark ; 51.0; 101; 11Alp Lep ; 2.58; 7000;occ; 102; 0;39234  
 4; -237.7; 01-SEP-2009 00:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39234  
 5; 487.5; 01-SEP-2009 01:08:40; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39235  
 6; 962.2; 01-SEP-2009 01:16:35; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39235  
 7; 1329.7; 01-SEP-2009 01:22:43; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;39235  
 8; 2249.9; 01-SEP-2009 01:38:03; Bright; 47.5; 90; 54Alp Peg ; 2.49; 11000;occ; 95; 0;39235  
 9; 2501.4; 01-SEP-2009 01:42:14; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39235  
 10; 3142.8; 01-SEP-2009 01:52:56; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39235  
 11; 3270.9; 01-SEP-2009 01:55:04; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39235  
 12; 4155.8; 01-SEP-2009 02:09:49; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;39235  
 13; 4378.2; 01-SEP-2009 02:13:31; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39235  
 14; 4687.0; 01-SEP-2009 02:18:40; Dark ; 64.0; 151; 13Mu Gem ; 2.89; 3000;occ; 128; 0;39235  
 15; 4792.9; 01-SEP-2009 02:20:26; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39235

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090901\_022502\_000042832082\_00103\_39235\_8473.N1

1; -966.8; 01-SEP-2009 02:25:02; Dark ; 66.5; 14; 58Alp Ori ; 0.87; 3000;occ; 133; 0;39235  
 2; -715.8; 01-SEP-2009 02:29:13; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39235  
 3; -584.8; 01-SEP-2009 02:31:24; Dark ; 49.5; 47; 2Bet CMa ; 1.98; 28000;occ; 99; 0;39235  
 4; -412.2; 01-SEP-2009 02:34:17; Dark ; 52.5; 101; 11Alp Lep ; 2.58; 7000;occ; 105; 0;39235  
 5; -236.5; 01-SEP-2009 02:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39235  
 6; 488.8; 01-SEP-2009 02:49:18; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39236  
 7; 962.7; 01-SEP-2009 02:57:12; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39236  
 8; 1330.1; 01-SEP-2009 03:03:19; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;39236  
 9; 2249.4; 01-SEP-2009 03:18:38; Bright; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;39236  
 10; 2500.7; 01-SEP-2009 03:22:50; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;39236  
 11; 3142.5; 01-SEP-2009 03:33:31; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39236  
 12; 3270.4; 01-SEP-2009 03:35:39; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39236

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090901\_035024\_000051962082\_00104\_39236\_8474.N1

1; -1880.5; 01-SEP-2009 03:50:24; Bright; 58.5; 6; 13Alp Aur ; 0.08; 3400;occ; 117; 0;39236  
 2; -1657.5; 01-SEP-2009 03:54:07; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39236  
 3; -1348.6; 01-SEP-2009 03:59:16; Dark ; 53.5; 151; 13Mu Gem ; 2.89; 3000;occ; 107; 0;39236  
 4; -1242.9; 01-SEP-2009 04:01:02; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;39236  
 5; -965.8; 01-SEP-2009 04:05:39; Dark ; 74.0; 14; 58Alp Ori ; 0.87; 3000;occ; 148; 0;39236  
 6; -714.7; 01-SEP-2009 04:09:50; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39236  
 7; -584.2; 01-SEP-2009 04:12:01; Dark ; 49.0; 47; 2Bet CMa ; 1.98; 28000;occ; 98; 0;39236  
 8; -411.4; 01-SEP-2009 04:14:53; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;39236  
 9; -235.3; 01-SEP-2009 04:17:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39236  
 10; 489.9; 01-SEP-2009 04:29:55; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39237  
 11; 963.6; 01-SEP-2009 04:37:48; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39237  
 12; 1330.4; 01-SEP-2009 04:43:55; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39237  
 13; 2248.7; 01-SEP-2009 04:59:14; Bright; 70.0; 90; 54Alp Peg ; 2.49; 11000;occ; 140; 0;39237  
 14; 2500.2; 01-SEP-2009 05:03:25; Bright; 43.5; 164; 44Eta Peg ; 2.95; 5400;occ; 87; 0;39237  
 15; 3141.8; 01-SEP-2009 05:14:07; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39237  
 16; 3269.5; 01-SEP-2009 05:16:14; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39237

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090901\_053100\_000051952082\_00105\_39237\_8475.N1

1; -1880.7; 01-SEP-2009 05:31:00; Bright; 57.0; 6; 13Alp Aur ; 0.08; 3400;occ; 114; 0;39237  
 2; -1657.7; 01-SEP-2009 05:34:43; Bright; 46.5; 107; 37The Aur ; 2.65; 11000;occ; 93; 0;39237  
 3; -1348.2; 01-SEP-2009 05:39:53; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;39237  
 4; -1242.4; 01-SEP-2009 05:41:38; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;39237  
 5; -964.9; 01-SEP-2009 05:46:16; Dark ; 71.5; 14; 58Alp Ori ; 0.87; 3000;occ; 143; 0;39237  
 6; -713.5; 01-SEP-2009 05:50:27; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39237  
 7; -583.2; 01-SEP-2009 05:52:38; Dark ; 48.0; 47; 2Bet CMa ; 1.98; 28000;occ; 96; 0;39237  
 8; -409.9; 01-SEP-2009 05:55:31; Dark ; 58.5; 101; 11Alp Lep ; 2.58; 7000;occ; 117; 0;39237  
 9; -234.2; 01-SEP-2009 05:58:27; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39237  
 10; 491.2; 01-SEP-2009 06:10:32; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39238  
 11; 964.2; 01-SEP-2009 06:18:25; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;39238  
 12; 1330.7; 01-SEP-2009 06:24:32; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;39238  
 13; 2248.4; 01-SEP-2009 06:39:49; Bright; 46.5; 90; 54Alp Peg ; 2.49; 11000;occ; 93; 0;39238  
 14; 2499.6; 01-SEP-2009 06:44:00; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39238  
 15; 3141.0; 01-SEP-2009 06:54:42; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;39238  
 16; 3268.9; 01-SEP-2009 06:56:50; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;39238

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8; 4378.4; 01-SEP-2009 20:40:07; Bright; 50.5; 107; 37The Aur ; 2.65; 11000;occ; 101; 0;39246
9; 4690.5; 01-SEP-2009 20:45:19; Dark ; 57.5; 151; 13Mu Gem ; 2.89; 3000;occ; 115; 0;39246
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7; 969.2; 01-SEP-2009 21:23:53; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;39247
8; 1332.9; 01-SEP-2009 21:29:57; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39247
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16; 4797.5; 01-SEP-2009 22:27:42; Dark ; 52.5; 44; 24Gam Gem ; 1.93; 11000;occ; 105; 0;39247
17; 5079.4; 01-SEP-2009 22:32:24; Dark ; 65.5; 14; 58Alp Ori ; 0.87; 3000;occ; 131; 0;39247
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6; 969.8; 01-SEP-2009 23:04:30; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;39248
7; 2243.0; 01-SEP-2009 23:25:43; Bright; 59.5; 90; 54Alp Peg ; 2.49; 11000;occ; 119; 0;39248
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7; -582.7; 01-SEP-2009 07:33:14; Dark ; 47.5; 47; 2Bet CMA ; 1.98; 28000;occ; 95; 0;39238
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6; 4378.4; 01-SEP-2009 08:55:55; Bright; 46.5; 107; 37The Aur ; 2.65; 11000;occ; 93; 0;39239
7; 4688.4; 01-SEP-2009 09:01:05; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;39239
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 5; 4154.3; 01-SEP-2009 10:32:47; Bright; 63.5; 6; 13Alp Aur ; 0.08; 3400;occ; 127; 0;39240
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11; 5457.2; 01-SEP-2009 15:56:17; Dark ; 47.5; 47; 2Bet CMa ; 1.98; 28000;occ; 95; 0;39243
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2; 987.9; 04-SEP-2009 04:43:57; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;39280
3; 2228.4; 04-SEP-2009 05:04:38; Bright; 44.5; 90; 54Alp Peg ; 2.49; 11000;occ; 89; 0;39280
4; 2480.9; 04-SEP-2009 05:08:50; Bright; 42.0; 164; 44Eta Peg ; 2.95; 5400;occ; 84; 0;39280
5; 3115.5; 04-SEP-2009 05:19:25; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;39280
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3; -1224.5; 04-SEP-2009 05:47:41; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;39280
4; -631.5; 04-SEP-2009 05:57:34; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;39280
5; -548.9; 04-SEP-2009 05:58:57; Dark ; 48.0; 47; 2Bet CMA ; 1.98; 28000;occ; 96; 0;39280
6; -355.6; 04-SEP-2009 06:02:10; Dark ; 57.0; 101; 11Alp Lep ; 2.58; 7000;occ; 114; 0;39280
7; -182.3; 04-SEP-2009 06:05:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39280
8; 542.6; 04-SEP-2009 06:17:08; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39281
9; 988.4; 04-SEP-2009 06:24:34; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;39281
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11; 2480.7; 04-SEP-2009 06:49:26; Bright; 42.0; 164; 44Eta Peg ; 2.95; 5400;occ; 84; 0;39281
12; 3114.6; 04-SEP-2009 07:00:00; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;39281
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3; 2477.3; 04-SEP-2009 20:14:10; Bright; 40.0; 164; 44Eta Peg ; 2.95; 5400;occ; 80; 0;39289
4; 3110.0; 04-SEP-2009 20:24:43; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39289
5; 3233.7; 04-SEP-2009 20:26:47; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;39289
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6; 993.3; 04-SEP-2009 21:30:02; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;39290
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3; 3114.0; 04-SEP-2009 08:40:35; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;39282
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5; 4142.4; 04-SEP-2009 08:57:44; Bright; 46.0; 6; 13Alp Aur ; 0.08; 3400;occ; 92; 0;39282
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6; 4378.9; 04-SEP-2009 12:22:52; Bright; 72.0; 107; 37The Aur ; 2.65; 11000;occ; 144; 0;39284
7; 4703.9; 04-SEP-2009 12:28:17; Dark ; 60.5; 151; 13Mu Gem ; 2.89; 3000;occ; 121; 0;39284
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 5; -526.4; 13-SEP-2009 04:35:57; Dark ; 58.0; 1; 9Alp CMA ; -1.44; 11000;occ; 116; 0;39408
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 7; -247.3; 13-SEP-2009 04:40:36; Dark ; 47.0; 177; 1Zet CMA ; 3.02; 26000;occ; 94; 0;39408
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10; 686.9; 13-SEP-2009 04:56:10; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39409
11; 1521.6; 13-SEP-2009 05:10:05; Dark ; 59.5; 52; 16Bet Cet ; 2.04; 4500;occ; 119; 0;39409
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14; 2565.4; 13-SEP-2009 05:27:28; Bright; 49.5; 58; 21Alp And ; 2.07; 11000;occ; 99; 0;39409
15; 3045.6; 13-SEP-2009 05:35:29; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39409
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 9; -41.8; 13-SEP-2009 06:24:37; Dark ; 50.0; 108; Alp Col ; 2.65; 15200;occ; 100; 0;39409
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11; 1521.8; 13-SEP-2009 06:50:41; Dark ; 59.5; 52; 16Bet Cet ; 2.04; 4500;occ; 119; 0;39410
12; 2187.2; 13-SEP-2009 07:01:46; Bright; 59.0; 90; 54Alp Peg ; 2.49; 11000;occ; 118; 0;39410
13; 2422.6; 13-SEP-2009 07:05:42; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39410
14; 2564.9; 13-SEP-2009 07:08:04; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39410
15; 3045.3; 13-SEP-2009 07:16:04; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39410
16; 3157.2; 13-SEP-2009 07:17:56; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39410

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 6; 3152.3; 13-SEP-2009 20:42:39; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39418  
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 8; 4477.6; 13-SEP-2009 21:04:44; Bright; 61.0; 24; 66Alp Gem ; 1.58; 10200;occ; 122; 0;39418  
 9; 4664.4; 13-SEP-2009 21:07:51; Dark ; 61.0; 170; 27Eps Gem ; 3.00; 9700;occ; 122; 0;39418  
 10; 4886.1; 13-SEP-2009 21:11:33; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;39418  
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 6; 1522.8; 13-SEP-2009 21:56:05; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;39419  
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 8; 2419.9; 13-SEP-2009 22:11:02; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;39419  
 9; 2557.7; 13-SEP-2009 22:13:20; Bright; 49.0; 58; 21Alp And ; 2.07; 11000;occ; 98; 0;39419  
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 11; 3151.9; 13-SEP-2009 22:23:14; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39419  
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 8; 2419.4; 13-SEP-2009 23:51:38; Bright; 43.5; 93; 53Bet Peg ; 2.52; 3100;occ; 87; 0;39420  
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 15; 4887.4; 14-SEP-2009 00:32:46; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;39420  
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 3; 2564.1; 13-SEP-2009 08:48:39; Bright; 50.5; 58; 21Alp And ; 2.07; 11000;occ; 101; 0;39411  
 4; 3044.7; 13-SEP-2009 08:56:40; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39411  
 5; 3156.7; 13-SEP-2009 08:58:32; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;39411  
 6; 4175.6; 13-SEP-2009 09:15:31; Bright; 56.0; 42; 34Bet Aur ; 1.90; 10200;occ; 112; 0;39411  
 7; 4476.5; 13-SEP-2009 09:20:31; Bright; 42.5; 24; 66Alp Gem ; 1.58; 10200;occ; 85; 0;39411  
 8; 4662.1; 13-SEP-2009 09:23:37; Dark ; 58.0; 170; 27Eps Gem ; 3.00; 9700;occ; 116; 0;39411  
 9; 4984.1; 13-SEP-2009 09:28:59; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;39411  
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12; 5872.2; 13-SEP-2009 09:43:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39411
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 4; 3044.0; 13-SEP-2009 10:37:15; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39412
 5; 3156.0; 13-SEP-2009 10:39:07; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39412
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 5; 3155.4; 13-SEP-2009 12:19:42; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39413
 6; 4174.8; 13-SEP-2009 12:36:42; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;39413
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4; 2998.5; 20-SEP-2009 18:39:21; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39517
5; 3098.0; 20-SEP-2009 18:41:00; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39517
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8; 5630.7; 20-SEP-2009 19:23:13; Dark ; 65.0; 1; 9Alp CMA ; -1.44; 11000;occ; 130; 0;39517
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7; 861.6; 26-SEP-2009 04:50:25; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;39595
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