

# GOMOS Daily Report 09-OCT-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	12OCT2009 04:40:23
Data source version	GOMOS/5.00L03
Start time of products	09OCT2009 00:08:51
Stop time of products	09OCT2009 23:46:32
Store outputs in DB	Yes
Nb of level 1b prods	60
Nb of prods with errors	0

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

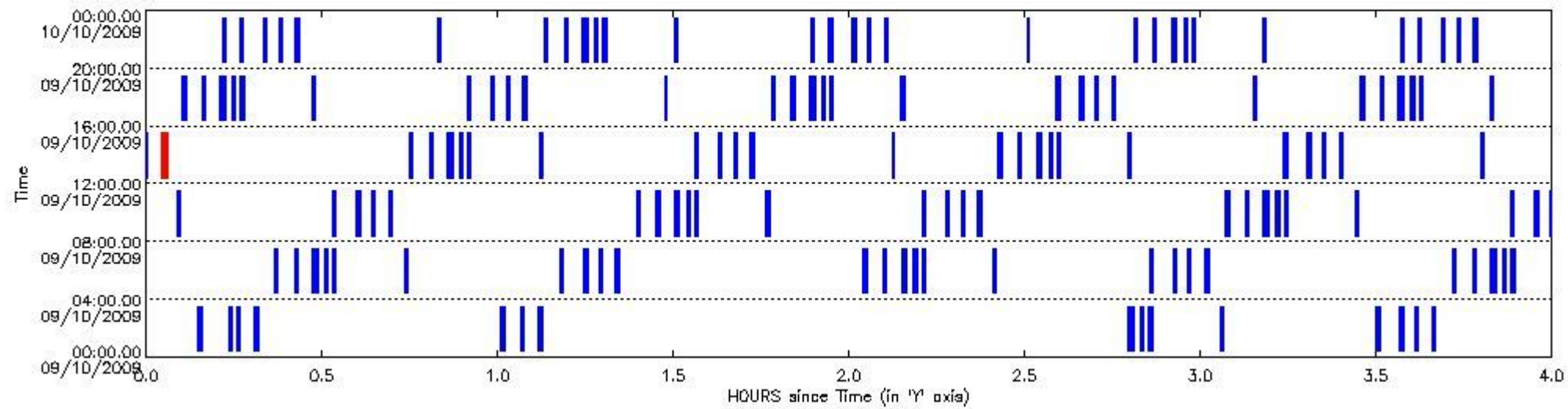
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

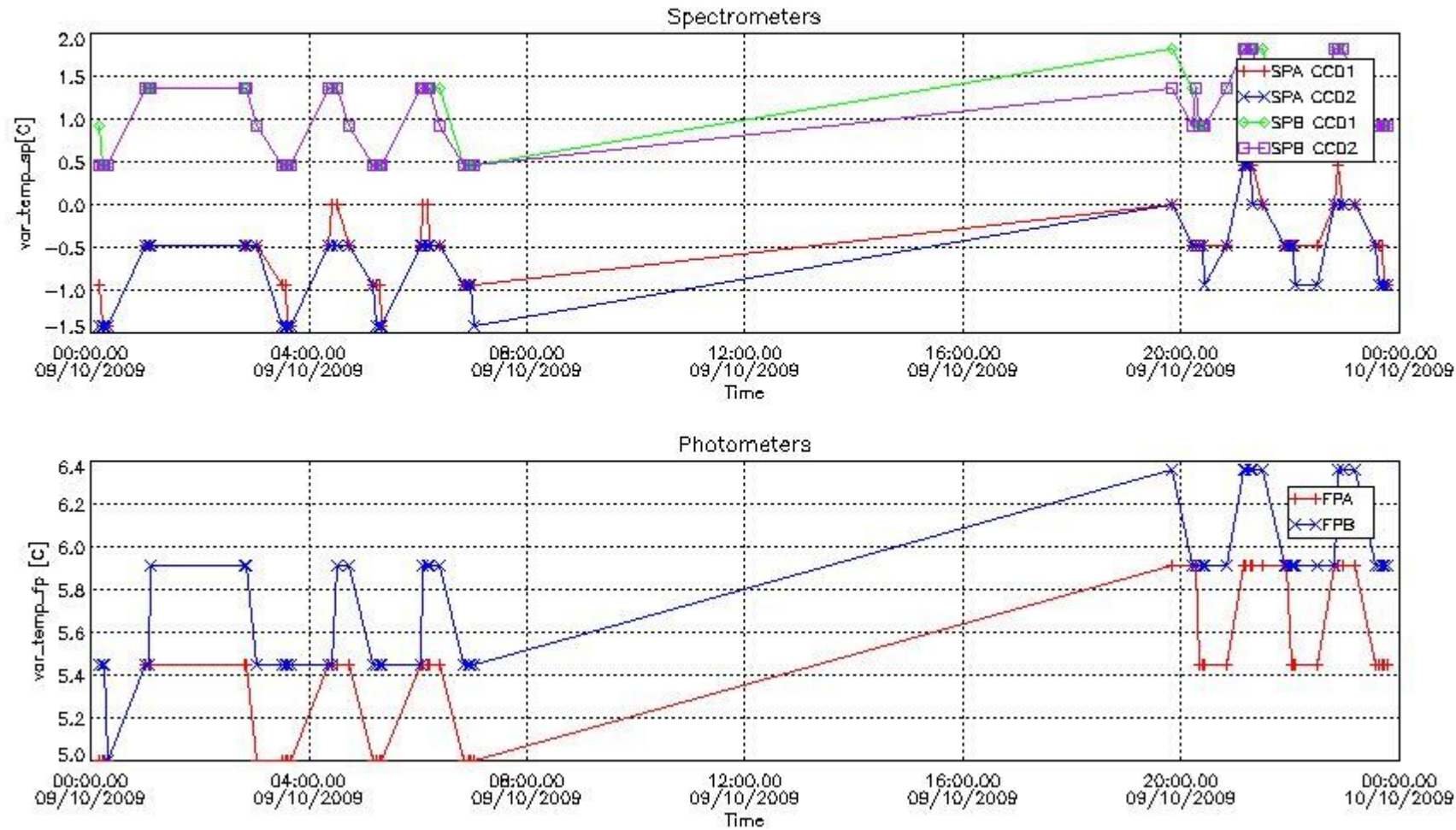
UTC start time	Star name	Star ID	Orbit
09-OCT-2009 12:02:32	23GamPer	160	39785

### 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_1PNPDE20091009_000851_000000382083_00145_39778_0006.N1	09-OCT-2009 00:08:51	Bright	38.000	53	43Bet And	2.0480	3300.0	76	39778	No
2	GOM_TRA_1PNPDE20091009_001406_000000332083_00145_39778_0007.N1	09-OCT-2009 00:14:06	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	39778	No
3	GOM_TRA_1PNPDE20091009_001530_000000342083_00145_39778_0008.N1	09-OCT-2009 00:15:30	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	39778	No
4	GOM_TRA_1PNPDE20091009_001822_000000422083_00145_39778_0009.N1	09-OCT-2009 00:18:22	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39778	No
5	GOM_TRA_1PNPDE20091009_010032_000000402083_00145_39778_0023.N1	09-OCT-2009 01:00:32	Dark	40.000	132	15Rho Pup	2.8030	6900.0	80	39778	No
6	GOM_TRA_1PNPDE20091009_010359_000000362083_00145_39778_0024.N1	09-OCT-2009 01:03:59	Dark	35.500	70	Zet Pup	2.2460	39000.	71	39778	No
7	GOM_TRA_1PNPDE20091009_010647_000000512083_00146_39779_0025.N1	09-OCT-2009 01:06:47	Dark	51.000	23	21Eps CMa	1.5020	26000.	102	39779	No
8	GOM_TRA_1PNPDE20091009_024947_000000372083_00147_39780_0051.N1	09-OCT-2009 02:49:47	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39780	No
9	GOM_TRA_1PNPDE20091009_025111_000000372083_00147_39780_0052.N1	09-OCT-2009 02:51:11	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39780	No
10	GOM_TRA_1PNPDE20091009_030322_000000382083_00147_39780_0053.N1	09-OCT-2009 03:03:22	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	39780	No

11	GOM_TRA_1PNPDE20091009_033002_000000382083_00147_39780_0054.N1	09-OCT-2009 03:30:02	Bright	38.000	53	43Bet And	2.0480	3300.0	76	39780	No
12	GOM_TRA_1PNPDE20091009_033403_000000432083_00147_39780_0055.N1	09-OCT-2009 03:34:03	Bright	42.500	73	57Gam1And	2.2600	13100.	85	39780	No
13	GOM_TRA_1PNPDE20091009_033642_000000332083_00147_39780_0056.N1	09-OCT-2009 03:36:42	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39780	No
14	GOM_TRA_1PNPDE20091009_033932_000000422083_00147_39780_0057.N1	09-OCT-2009 03:39:32	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39780	No
15	GOM_TRA_1PNPDE20091009_042146_000000402083_00147_39780_0077.N1	09-OCT-2009 04:21:46	Dark	40.000	132	15Rho Pup	2.8030	6900.0	80	39780	No
16	GOM_TRA_1PNPDE20091009_042513_000000362083_00147_39780_0078.N1	09-OCT-2009 04:25:13	Dark	36.000	70	Zet Pup	2.2460	39000.	72	39780	No
17	GOM_TRA_1PNPDE20091009_043024_000000372083_00148_39781_0079.N1	09-OCT-2009 04:30:24	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39781	No
18	GOM_TRA_1PNPDE20091009_043147_000000372083_00148_39781_0080.N1	09-OCT-2009 04:31:47	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39781	No
19	GOM_TRA_1PNPDE20091009_044359_000000382083_00148_39781_0081.N1	09-OCT-2009 04:43:59	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	39781	No
20	GOM_TRA_1PNPDE20091009_051038_000000382083_00148_39781_0082.N1	09-OCT-2009 05:10:38	Bright	37.500	53	43Bet And	2.0480	3300.0	75	39781	No
21	GOM_TRA_1PNPDE20091009_051438_000000432083_00148_39781_0083.N1	09-OCT-2009 05:14:38	Bright	43.000	73	57Gam1And	2.2600	13100.	86	39781	No
22	GOM_TRA_1PNPDE20091009_051718_000000332083_00148_39781_0084.N1	09-OCT-2009 05:17:18	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39781	No
23	GOM_TRA_1PNPDE20091009_052007_000000422083_00148_39781_0085.N1	09-OCT-2009 05:20:07	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39781	No
24	GOM_TRA_1PNPDE20091009_060223_000000402083_00148_39781_0096.N1	09-OCT-2009 06:02:23	Dark	40.000	132	15Rho Pup	2.8030	6900.0	80	39781	No
25	GOM_TRA_1PNPDE20091009_060550_000000362083_00148_39781_0097.N1	09-OCT-2009 06:05:50	Dark	36.000	70	Zet Pup	2.2460	39000.	72	39781	No
26	GOM_TRA_1PNPDE20091009_061101_000000372083_00149_39782_0098.N1	09-OCT-2009 06:11:01	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39782	No
27	GOM_TRA_1PNPDE20091009_061224_000000372083_00149_39782_0099.N1	09-OCT-2009 06:12:24	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39782	No
28	GOM_TRA_1PNPDE20091009_062435_000000382083_00149_39782_0100.N1	09-OCT-2009 06:24:35	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	39782	No
29	GOM_TRA_1PNPDE20091009_065113_000000372083_00149_39782_0101.N1	09-OCT-2009 06:51:13	Bright	37.000	53	43Bet And	2.0480	3300.0	74	39782	No
30	GOM_TRA_1PNPDE20091009_065513_000000422083_00149_39782_0102.N1	09-OCT-2009 06:55:13	Bright	42.000	73	57Gam1And	2.2600	13100.	84	39782	No
31	GOM_TRA_1PNPDE20091009_065753_000000342083_00149_39782_0103.N1	09-OCT-2009 06:57:53	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	39782	No
32	GOM_TRA_1PNPDE20091009_070042_000000422083_00149_39782_0104.N1	09-OCT-2009 07:00:42	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39782	No
33	GOM_TRA_1PNPDE20091009_194927_000000382083_00157_39790_0182.N1	09-OCT-2009 19:49:27	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	39790	No
34	GOM_TRA_1PNPDE20091009_201255_000000312083_00157_39790_0183.N1	09-OCT-2009 20:12:55	Tw_i_and_stray	31.000	105	6Bet Ari	2.6450	8900.0	62	39790	No
35	GOM_TRA_1PNPDE20091009_201557_000000372083_00157_39790_0184.N1	09-OCT-2009 20:15:57	Bright	37.000	53	43Bet And	2.0480	3300.0	74	39790	No
36	GOM_TRA_1PNPDE20091009_201954_000000422083_00157_39790_0185.N1	09-OCT-2009 20:19:54	Bright	42.000	73	57Gam1And	2.2600	13100.	84	39790	No
37	GOM_TRA_1PNPDE20091009_202238_000000332083_00157_39790_0186.N1	09-OCT-2009 20:22:38	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39790	No
38	GOM_TRA_1PNPDE20091009_202522_000000422083_00157_39790_0187.N1	09-OCT-2009 20:25:22	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	39790	No
39	GOM_TRA_1PNPDE20091009_204943_000000272083_00157_39790_0188.N1	09-OCT-2009 20:49:43	Tw_i_and_stray	27.000	166	17Eps Leo	2.9800	6000.0	54	39790	No
40	GOM_TRA_1PNPDE20091009_210756_000000402083_00157_39790_0203.N1	09-OCT-2009 21:07:56	Dark	40.000	132	15Rho Pup	2.8030	6900.0	80	39790	No
41	GOM_TRA_1PNPDE20091009_211120_000000362083_00157_39790_0204.N1	09-OCT-2009 21:11:20	Dark	36.000	70	Zet Pup	2.2460	39000.	72	39790	No
42	GOM_TRA_1PNPDE20091009_211631_000000372083_00158_39791_0205.N1	09-OCT-2009 21:16:31	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39791	No
43	GOM_TRA_1PNPDE20091009_211754_000000372083_00158_39791_0206.N1	09-OCT-2009 21:17:54	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39791	No
44	GOM_TRA_1PNPDE20091009_213004_000000382083_00158_39791_0207.N1	09-OCT-2009 21:30:04	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	39791	No
45	GOM_TRA_1PNPDE20091009_215330_000000312083_00158_39791_0208.N1	09-OCT-2009 21:53:30	Tw_i_and_stray	31.000	105	6Bet Ari	2.6450	8900.0	62	39791	No
46	GOM_TRA_1PNPDE20091009_215632_000000372083_00158_39791_0209.N1	09-OCT-2009 21:56:32	Bright	37.000	53	43Bet And	2.0480	3300.0	74	39791	No
47	GOM_TRA_1PNPDE20091009_220030_000000422083_00158_39791_0210.N1	09-OCT-2009 22:00:30	Bright	41.500	73	57Gam1And	2.2600	13100.	83	39791	No
48	GOM_TRA_1PNPDE20091009_220314_000000332083_00158_39791_0211.N1	09-OCT-2009 22:03:14	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39791	No
49	GOM_TRA_1PNPDE20091009_220557_000000422083_00158_39791_0212.N1	09-OCT-2009 22:05:57	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	39791	No
50	GOM_TRA_1PNPDE20091009_223019_000000272083_00158_39791_0213.N1	09-OCT-2009 22:30:19	Tw_i_and_stray	27.000	166	17Eps Leo	2.9800	6000.0	54	39791	No
51	GOM_TRA_1PNPDE20091009_224833_000000412083_00158_39791_0226.N1	09-OCT-2009 22:48:33	Dark	40.500	132	15Rho Pup	2.8030	6900.0	81	39791	No
52	GOM_TRA_1PNPDE20091009_225157_000000362083_00158_39791_0227.N1	09-OCT-2009 22:51:57	Dark	35.500	70	Zet Pup	2.2460	39000.	71	39791	No
53	GOM_TRA_1PNPDE20091009_225708_000000372083_00159_39792_0228.N1	09-OCT-2009 22:57:08	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39792	No
54	GOM_TRA_1PNPDE20091009_225831_000000372083_00159_39792_0229.N1	09-OCT-2009 22:58:31	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39792	No
55	GOM_TRA_1PNPDE20091009_231040_000000372083_00159_39792_0230.N1	09-OCT-2009 23:10:40	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39792	No
56	GOM_TRA_1PNPDE20091009_233404_000000382083_00159_39792_0231.N1	09-OCT-2009 23:34:04	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	39792	No
57	GOM_TRA_1PNPDE20091009_233708_000000372083_00159_39792_0232.N1	09-OCT-2009 23:37:08	Bright	37.000	53	43Bet And	2.0480	3300.0	74	39792	No
58	GOM_TRA_1PNPDE20091009_234104_000000422083_00159_39792_0233.N1	09-OCT-2009 23:41:04	Bright	42.000	73	57Gam1And	2.2600	13100.	84	39792	No
59	GOM_TRA_1PNPDE20091009_234349_000000332083_00159_39792_0234.N1	09-OCT-2009 23:43:49	Bright	32.500	76	27Gam Cas	2.3000	30000.	65	39792	No
60	GOM_TRA_1PNPDE20091009_234632_000000422083_00159_39792_0235.N1	09-OCT-2009 23:46:32	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39792	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).

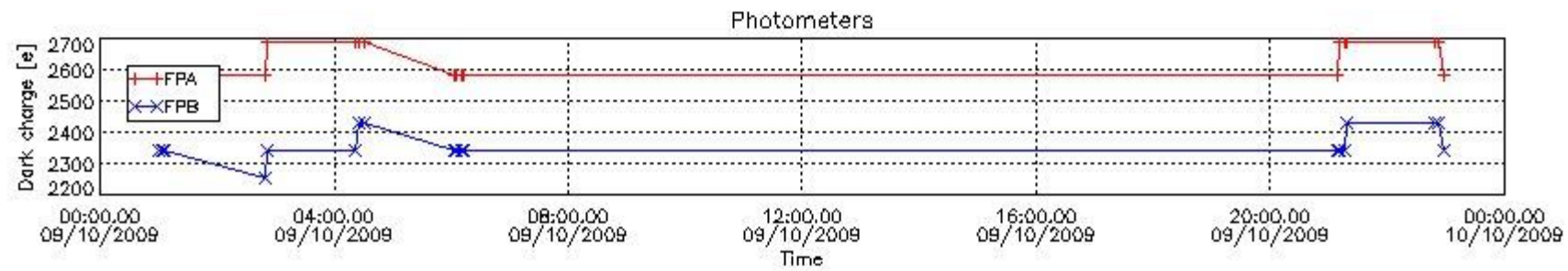
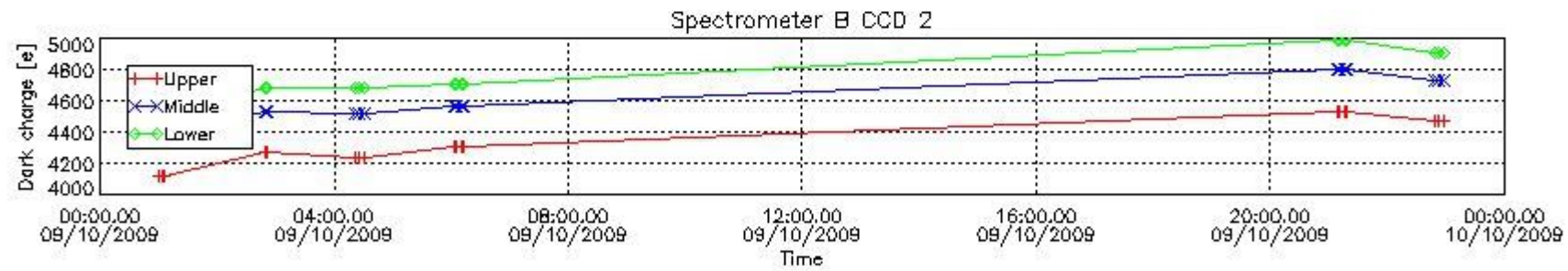
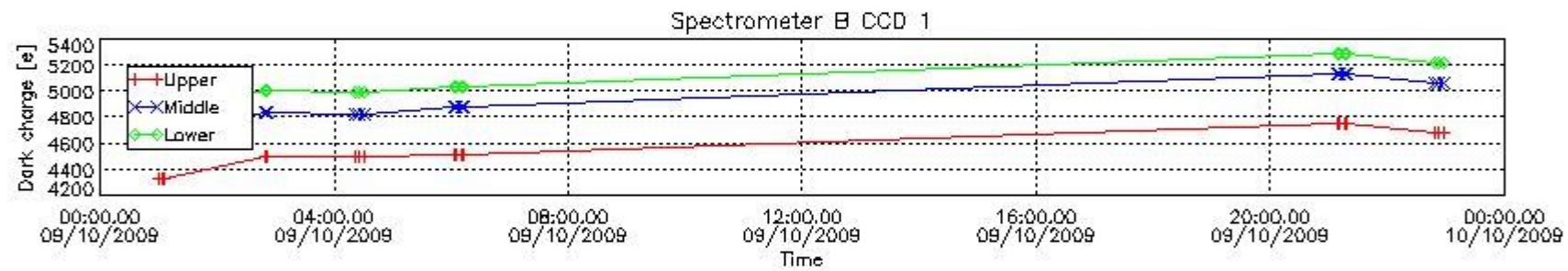
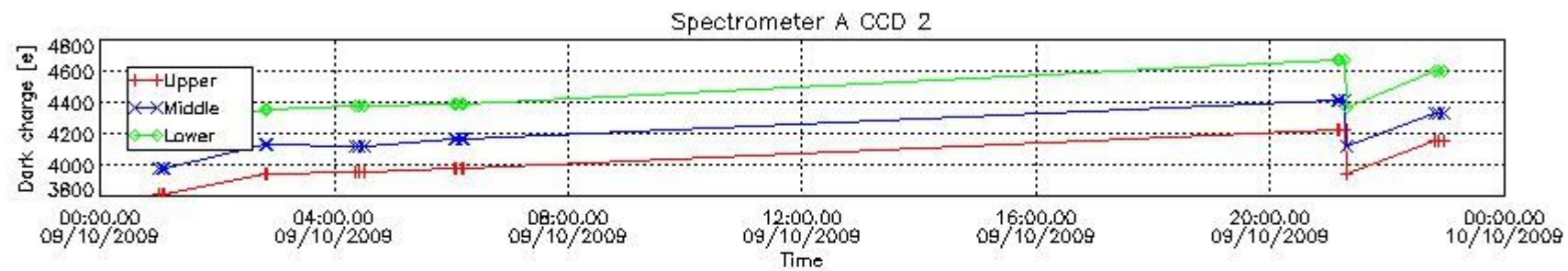
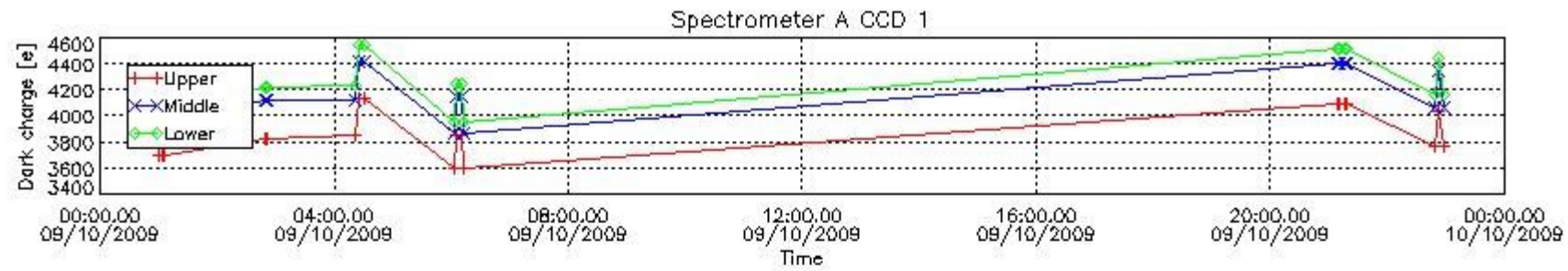
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20091009_010032_000000402083_00145_39778_0023.N1	DC map used
GOM_TRA_1PNPDE20091009_010359_000000362083_00145_39778_0024.N1	DC map used
GOM_TRA_1PNPDE20091009_010647_000000512083_00146_39779_0025.N1	DC map used
GOM_TRA_1PNPDE20091009_194927_000000382083_00157_39790_0182.N1	DC map used
GOM_TRA_1PNPDE20091009_201255_000000312083_00157_39790_0183.N1	DC map used
GOM_TRA_1PNPDE20091009_201557_000000372083_00157_39790_0184.N1	DC map used
GOM_TRA_1PNPDE20091009_201954_000000422083_00157_39790_0185.N1	DC map used
GOM_TRA_1PNPDE20091009_202238_000000332083_00157_39790_0186.N1	DC map used
GOM_TRA_1PNPDE20091009_202522_000000422083_00157_39790_0187.N1	DC map used
GOM_TRA_1PNPDE20091009_204943_000000272083_00157_39790_0188.N1	DC map used

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





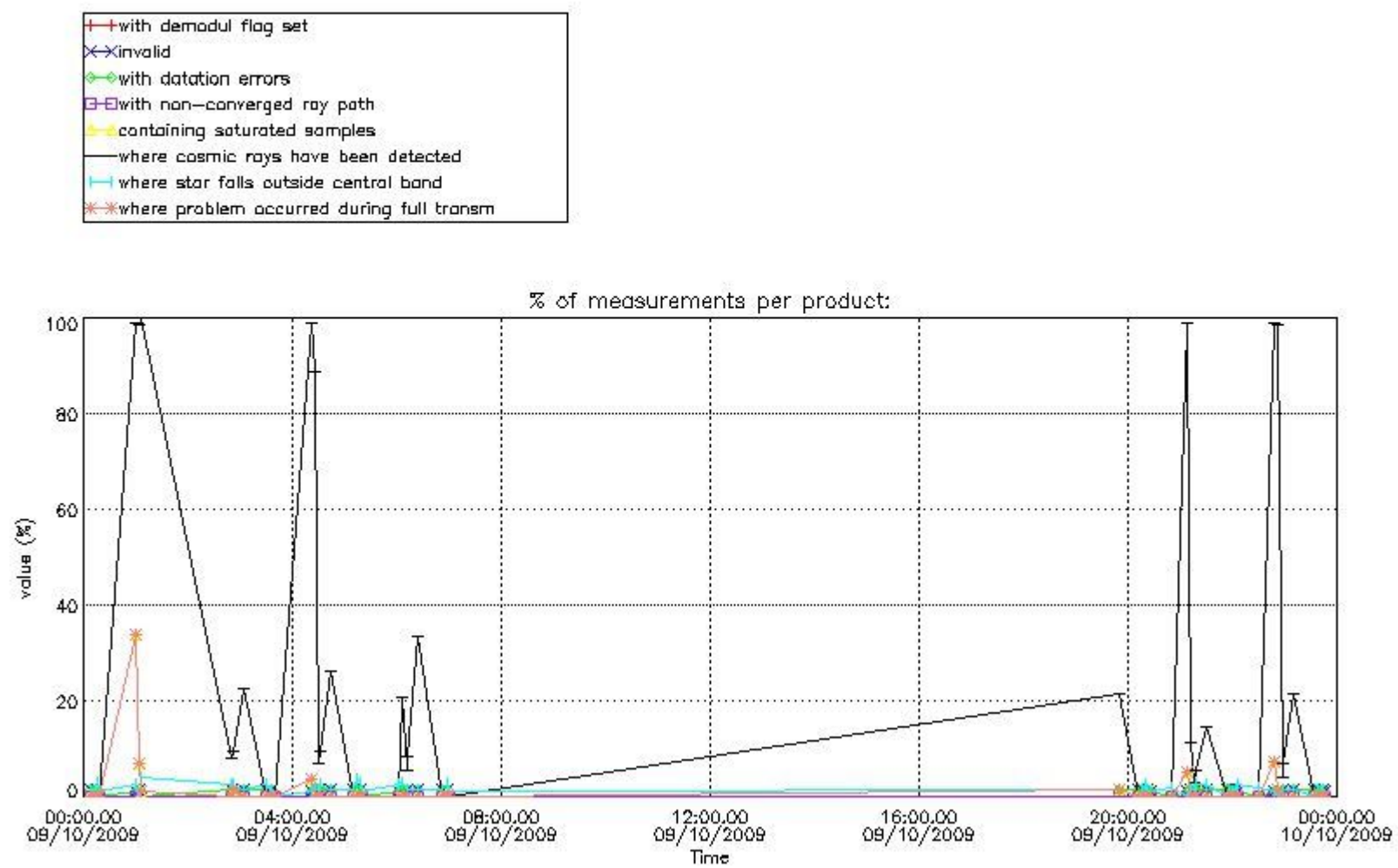
## 5. Demodulation flag and quality information monitoring

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:

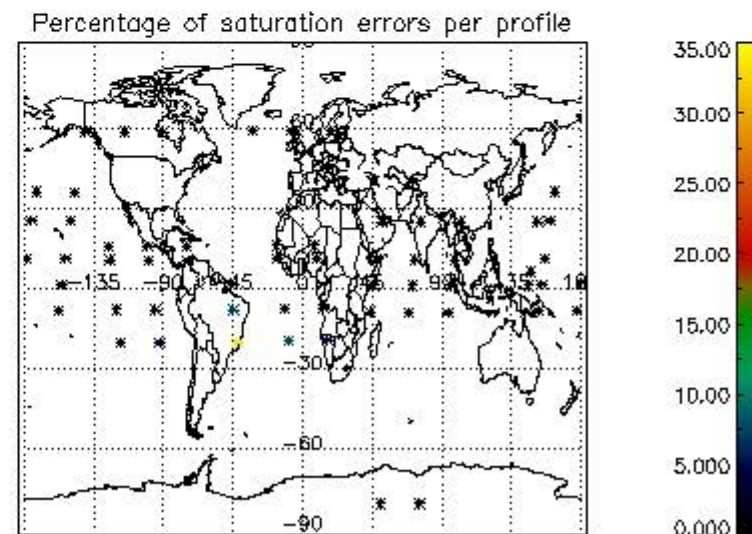
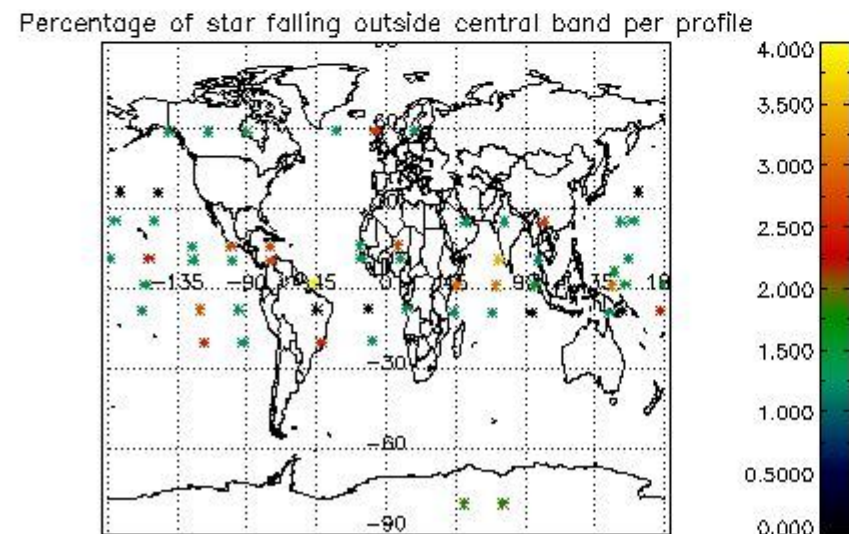
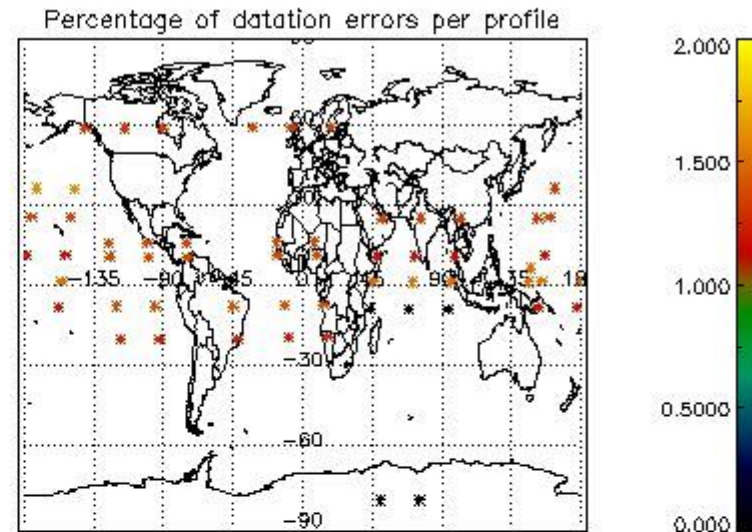
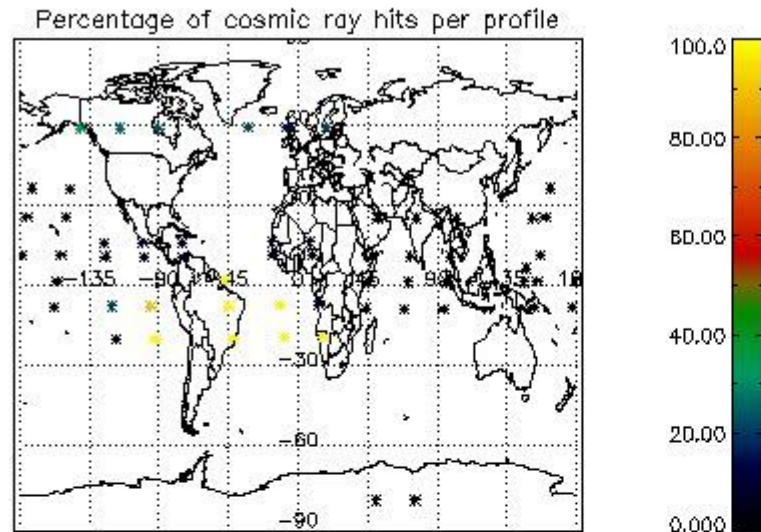
At least one measurement with demodulation flag set:	31.6667 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





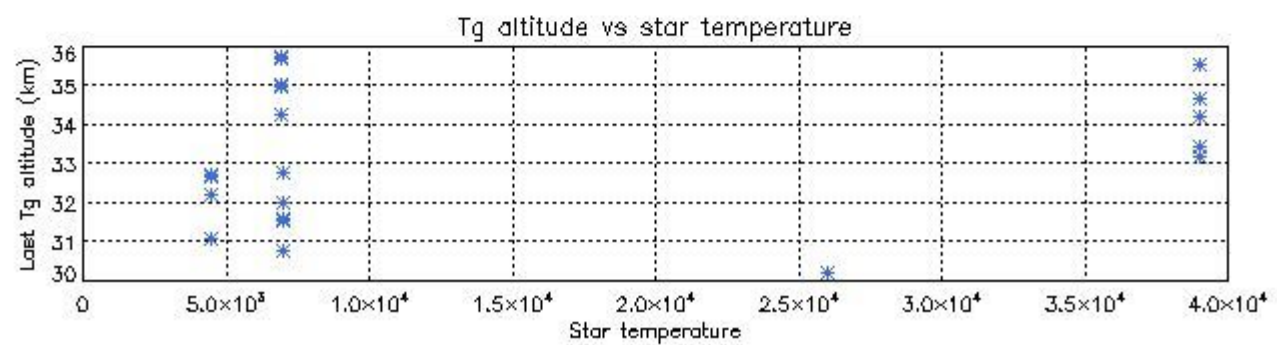
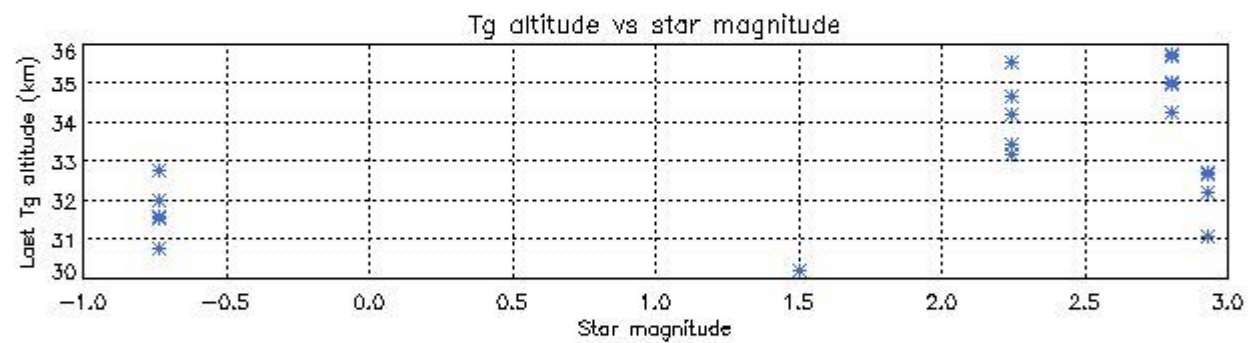
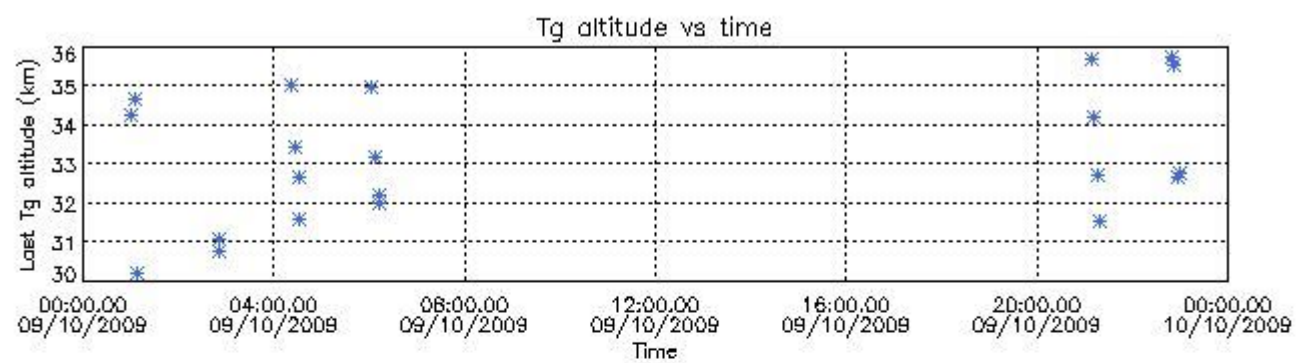
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	33.184	34.705	NaN
St. deviation:	1.6848	3.4152	NaN
Maximum:	35.747	49.116	NaN
Minimum:	30.183	30.808	NaN
Number of data:	21.000	29.000	NaN

### 6.2 Plot for DARK limb products

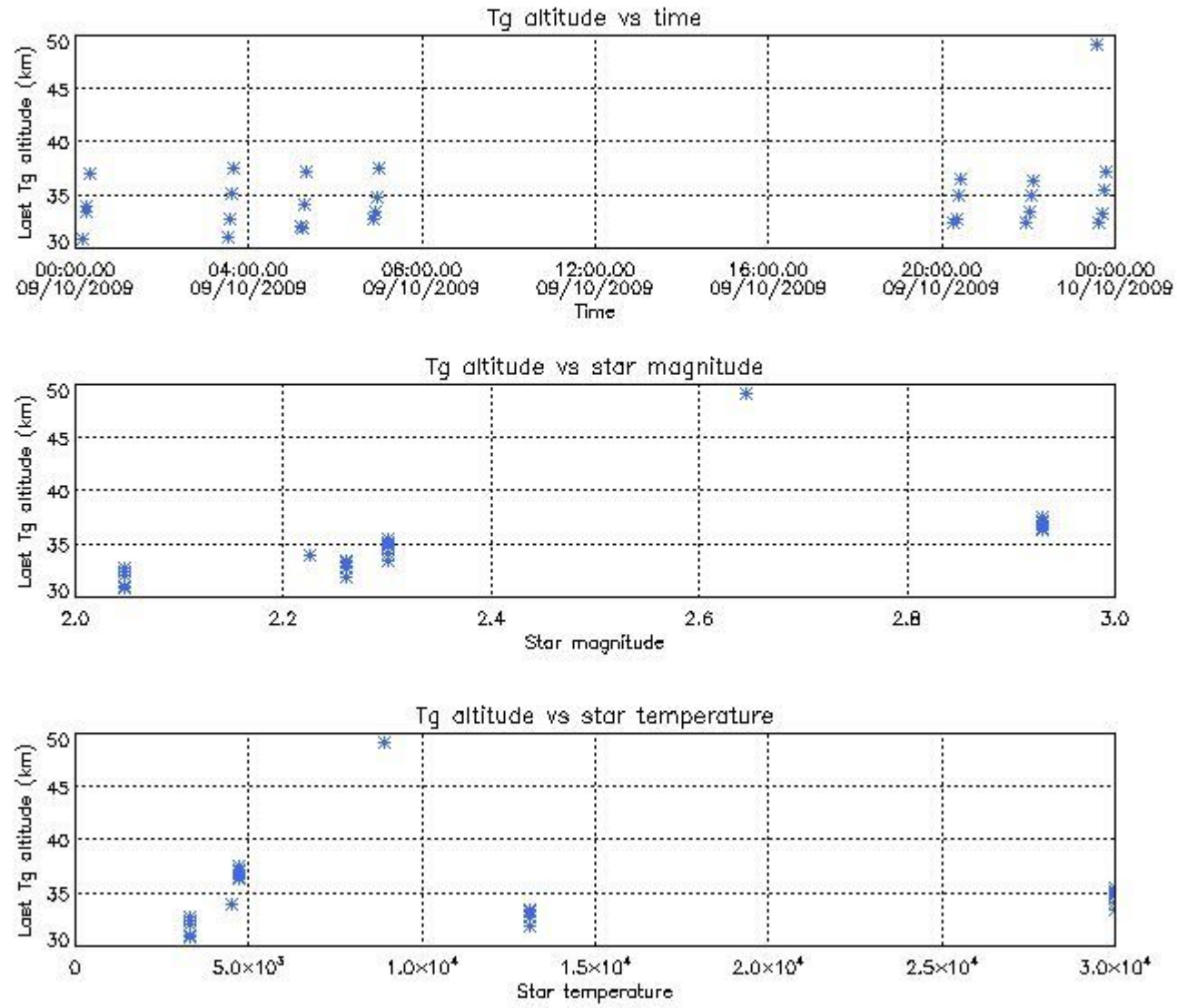
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

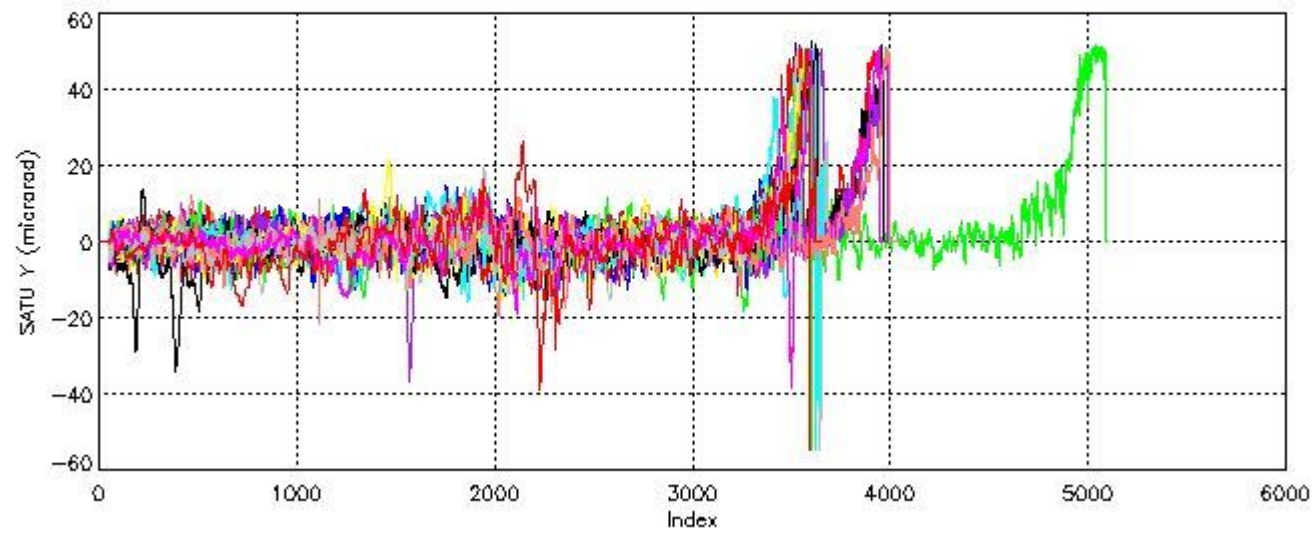
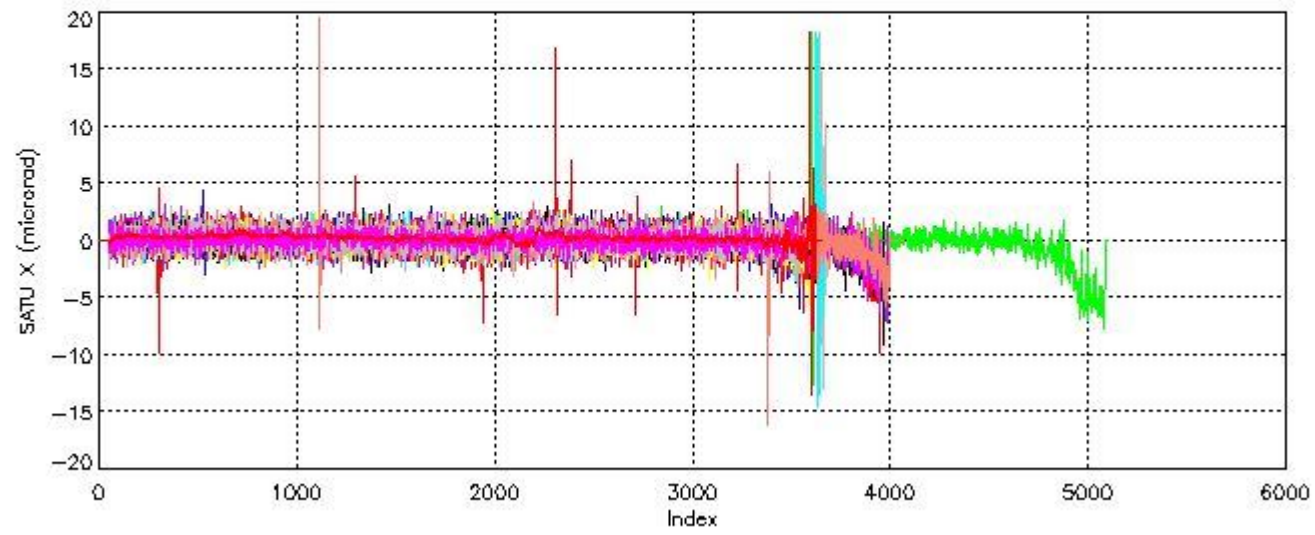


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.19887	-0.42185	0.27343	-0.36447
St. deviation:	0.57875	3.3801	0.66867	3.4688
Maximum:	19.400	13.800	7.5000	12.300
Minimum:	-9.9000	-34.100	-3.5000	-22.200

Number of data:	22600.	22600.	32050.	32050.
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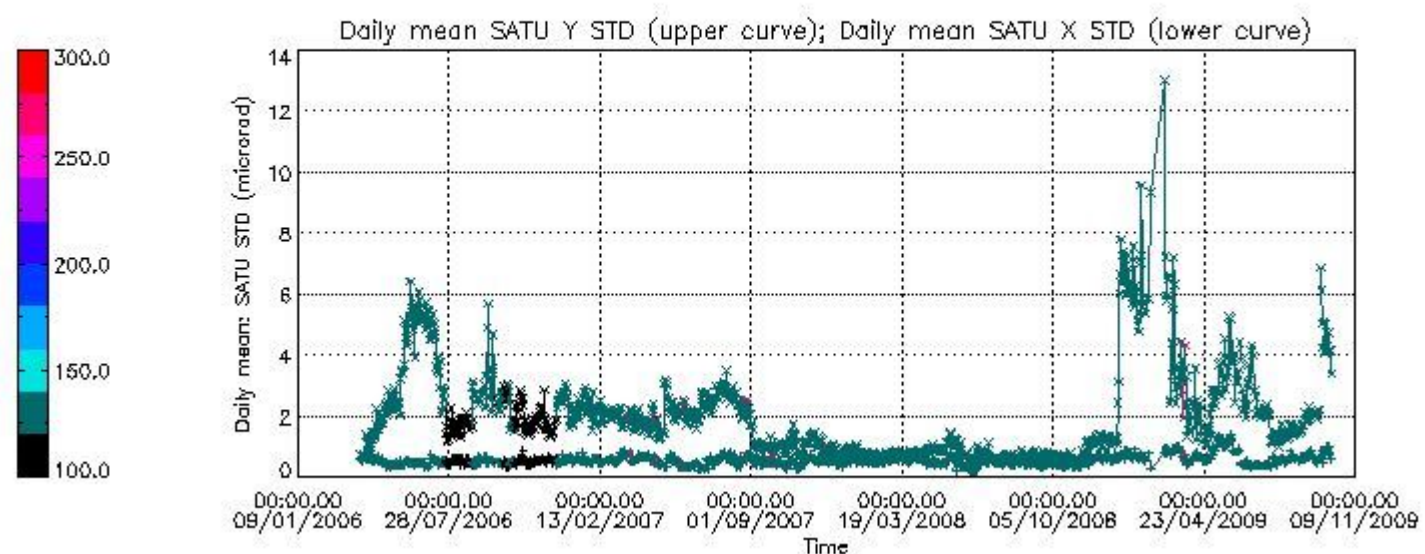
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

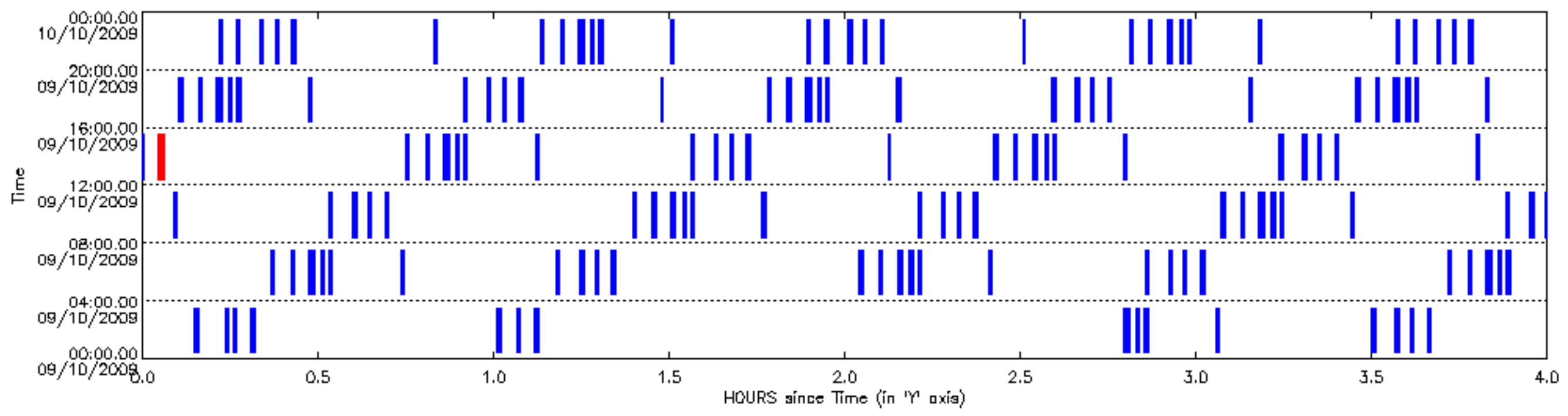


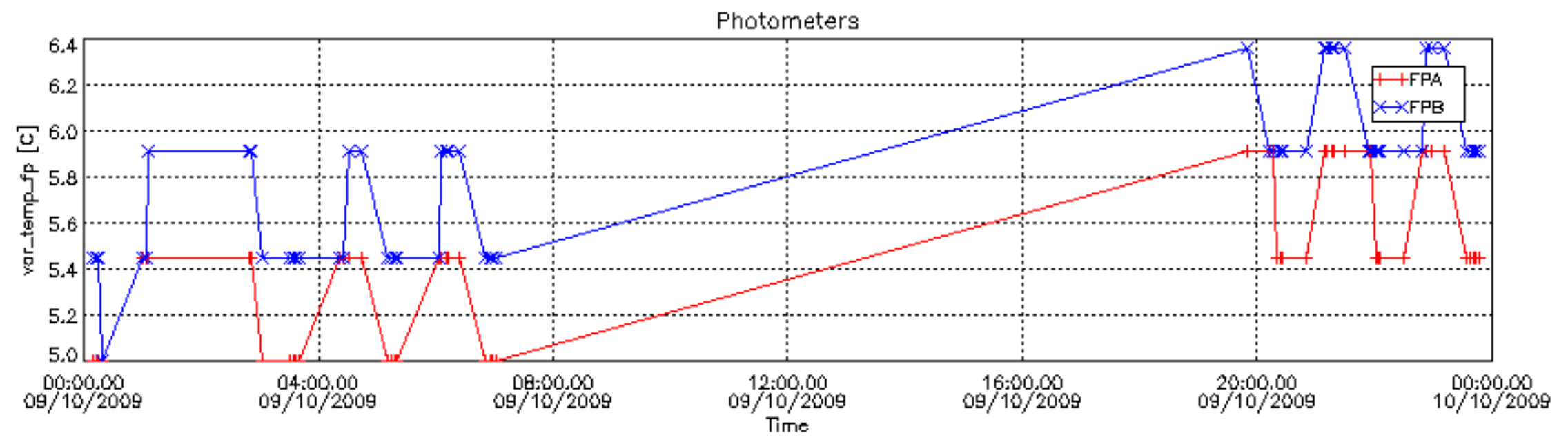
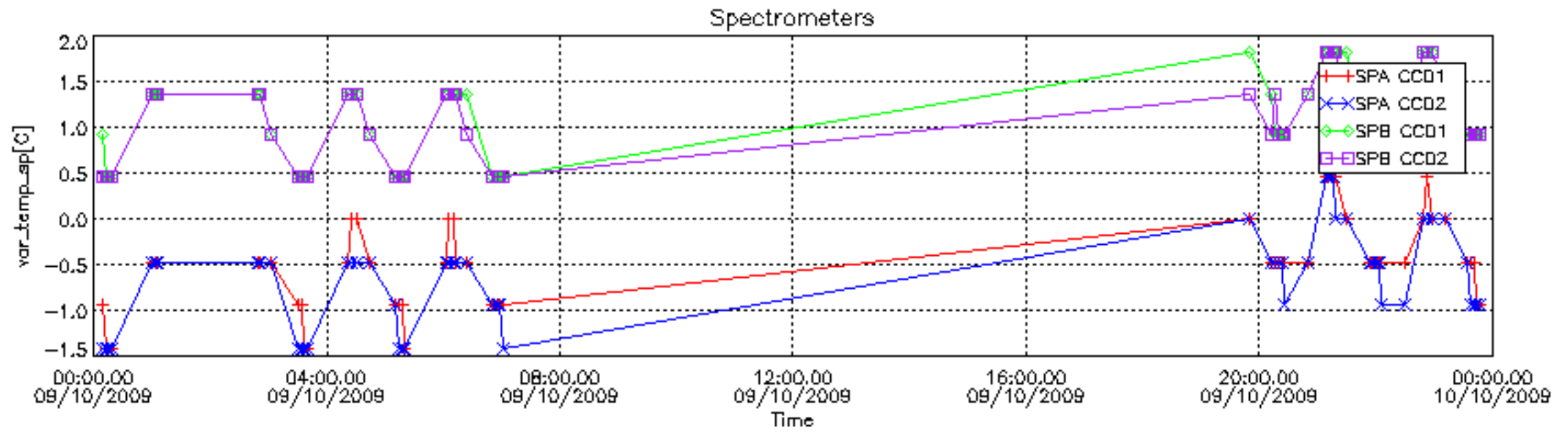
### 8. Auxiliary Data Files used for the production reported in section 2.4

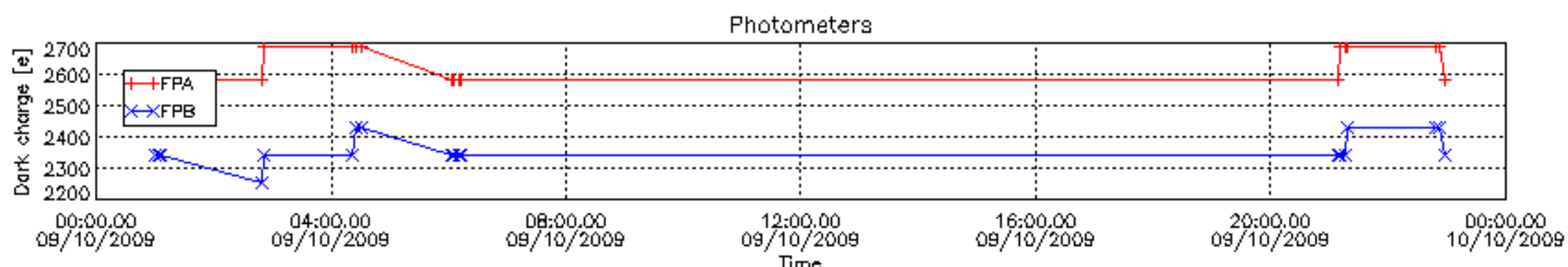
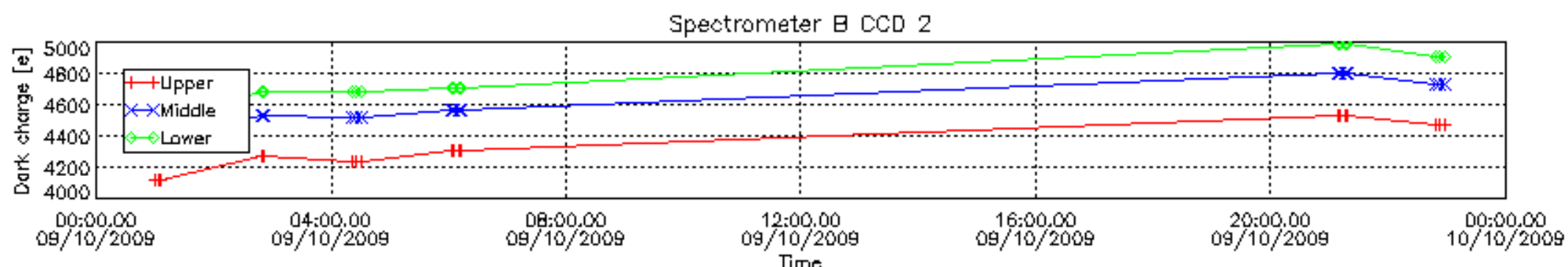
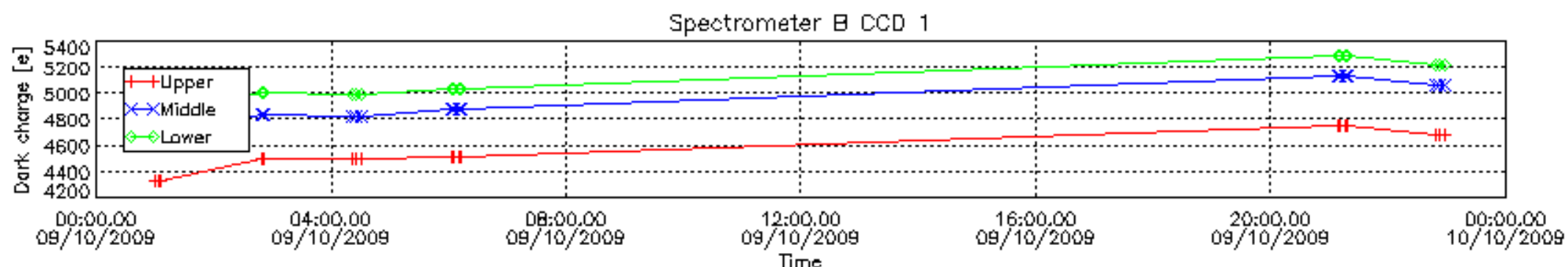
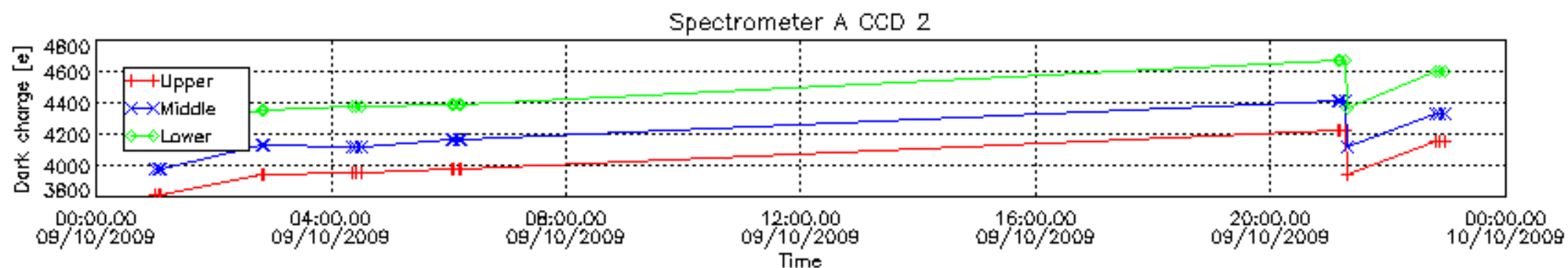
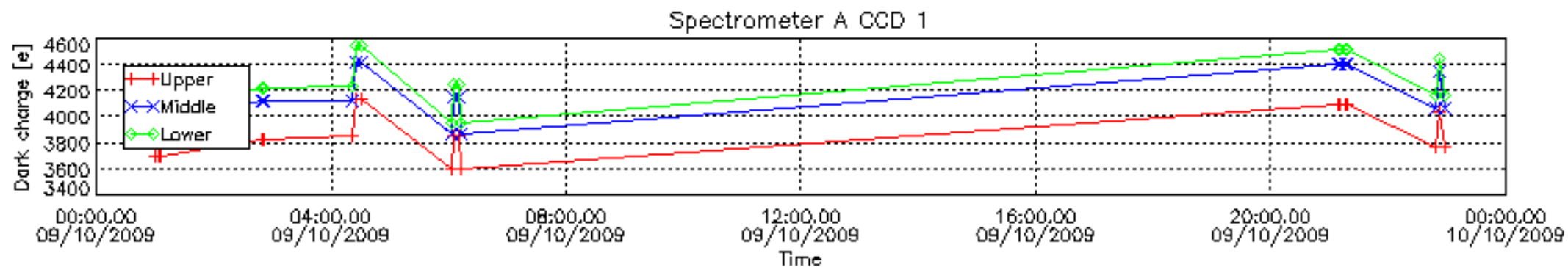
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091007_100119_20091005_000000_20100101_000000	1	09-OCT-2009 00:08:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	09-OCT-2009 00:08:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-OCT-2009 00:08:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	09-OCT-2009 00:08:51
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ECMWF_FILE	AUX_ECF_AXNECM20091008_182111_20091009_030000_20091009_150000	15	09-OCT-2009 04:21:46
ECMWF_FILE	AUX_ECA_AXNECM20091009_060112_20091008_210000_20091009_090000	24	09-OCT-2009 06:02:23
ECMWF_FILE	AUX_ECA_AXNECM20091009_182111_20091009_090000_20091009_210000	33	09-OCT-2009 19:49:27
ECMWF_FILE	AUX_ECF_AXNECM20091009_062112_20091009_210000_20091010_090000	40	09-OCT-2009 21:07:56
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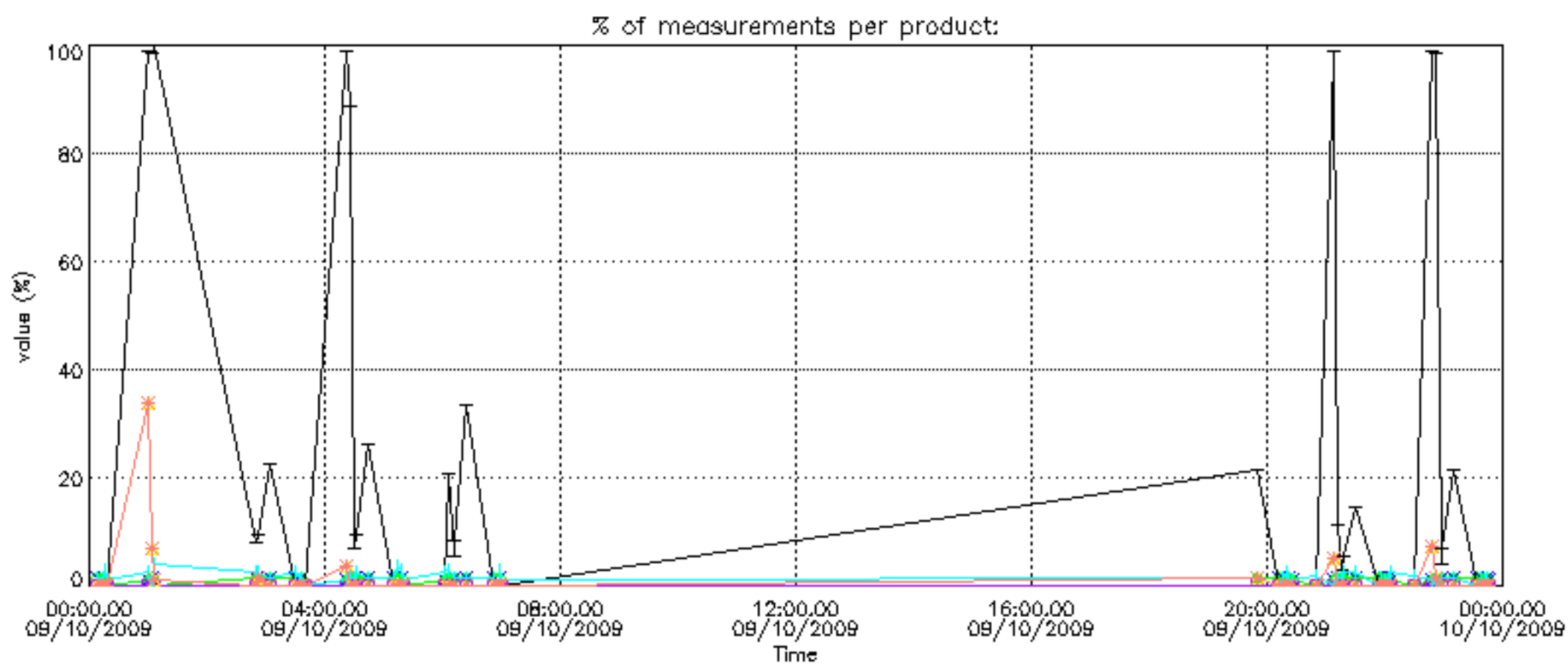




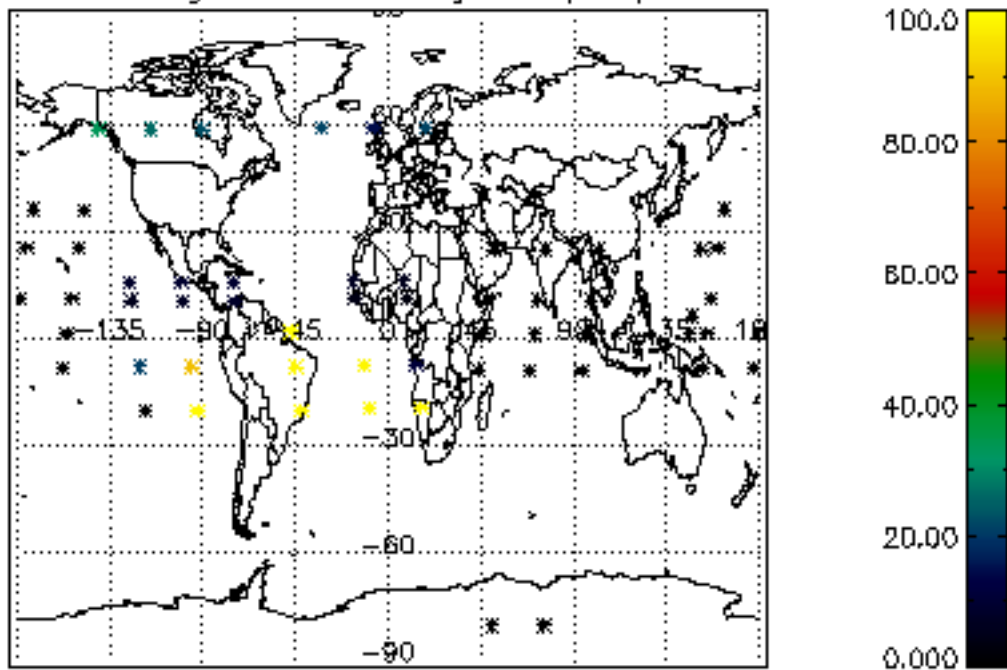




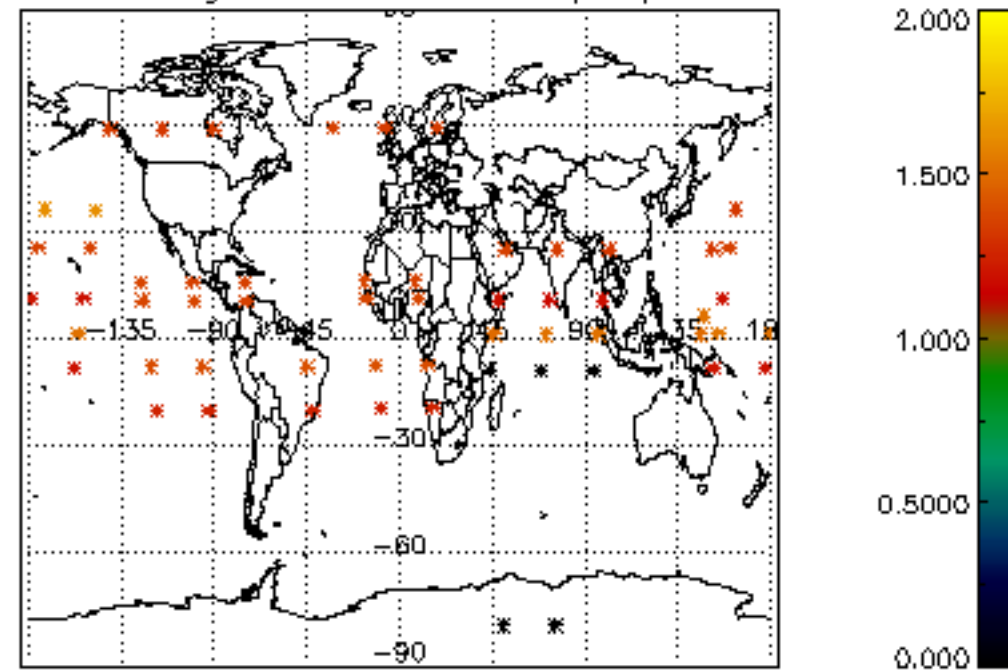




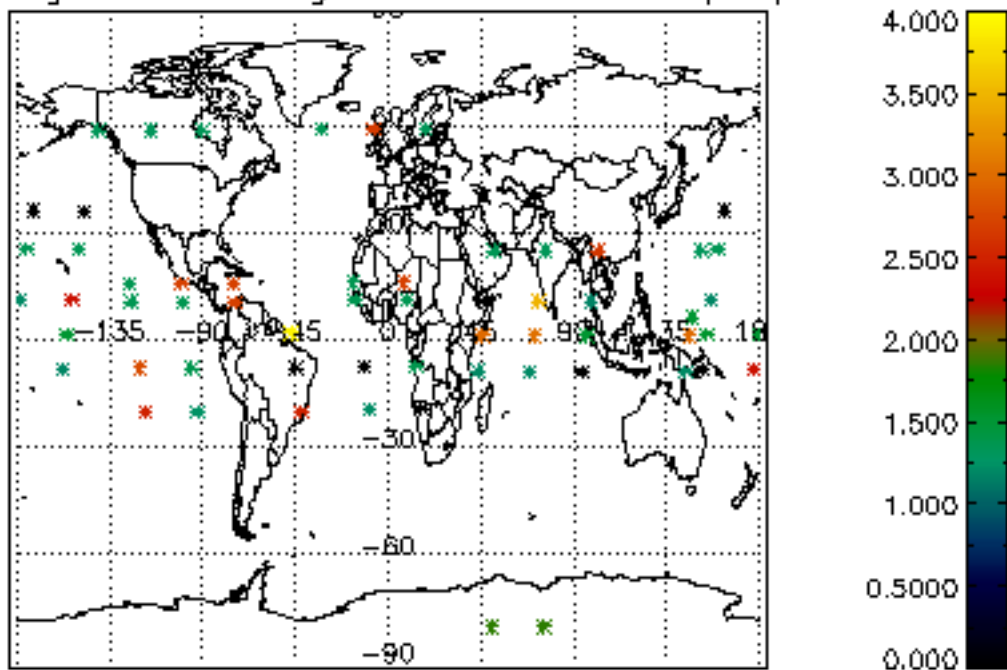
Percentage of cosmic ray hits per profile



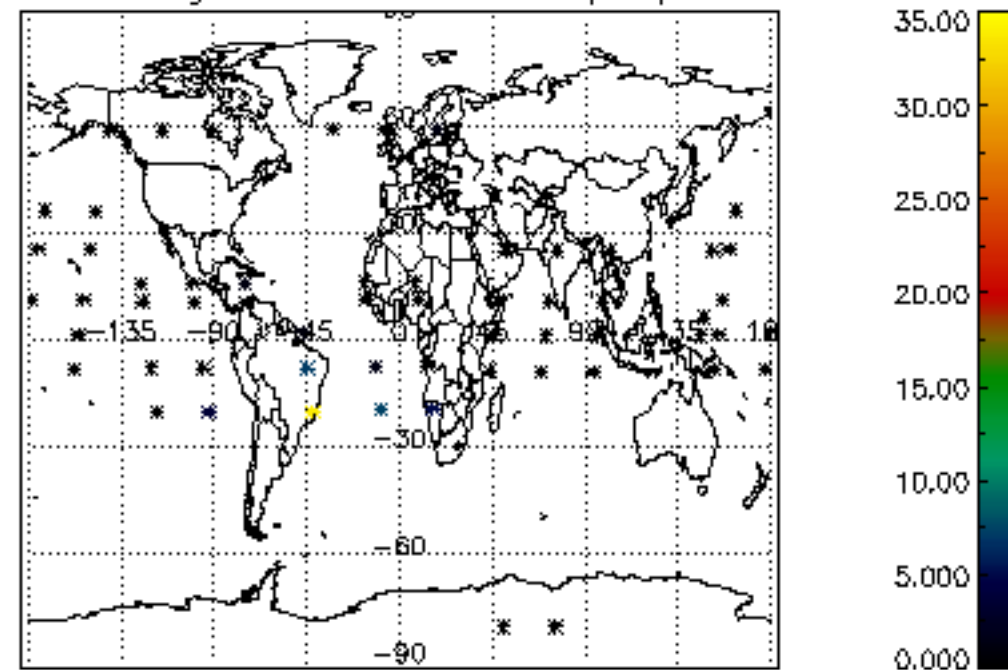
Percentage of datation errors per profile



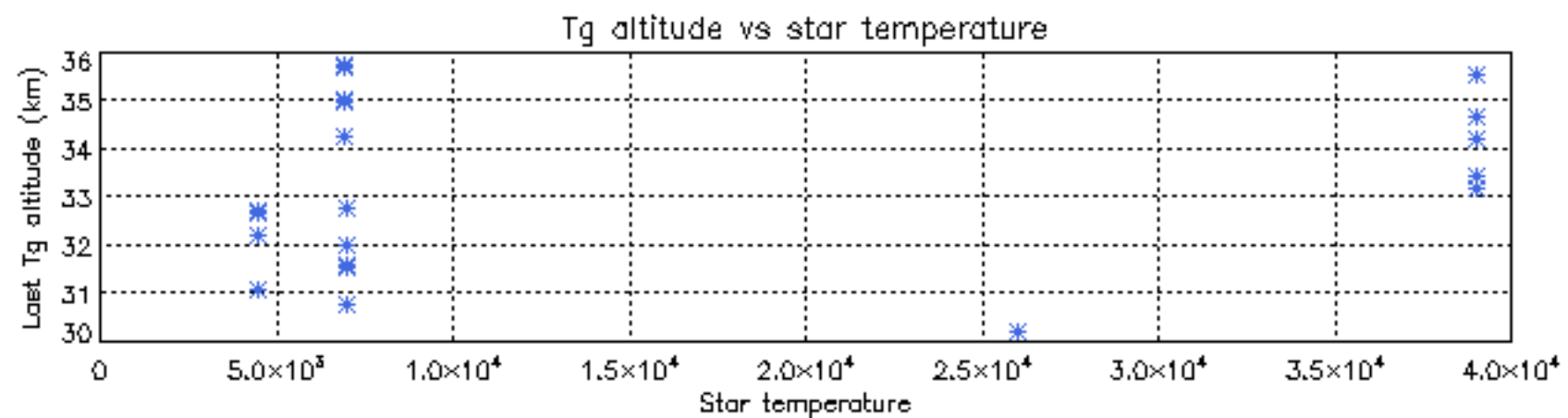
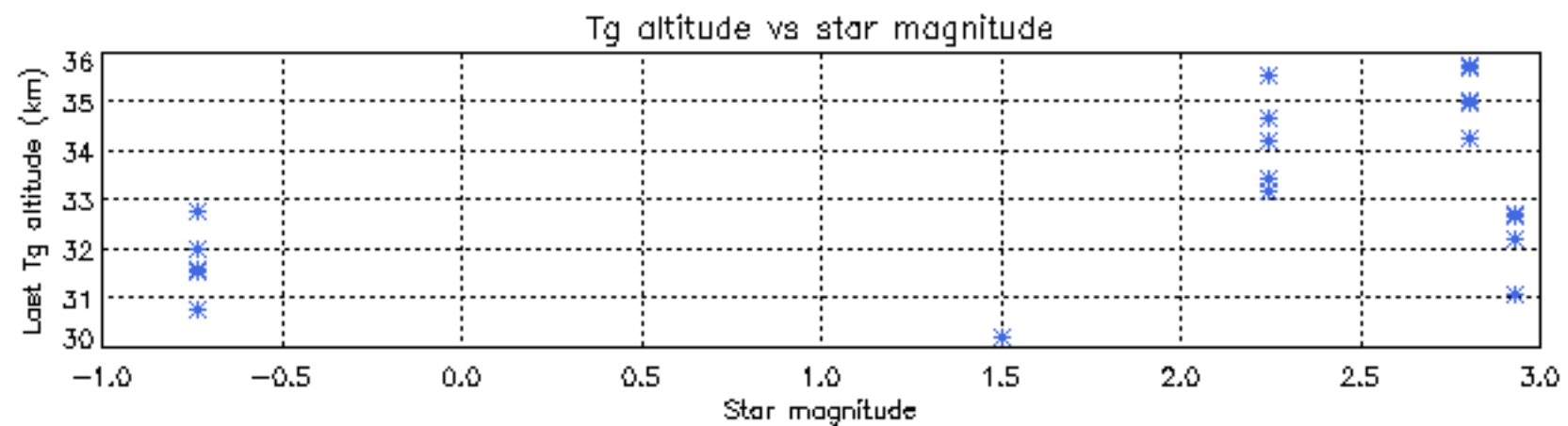
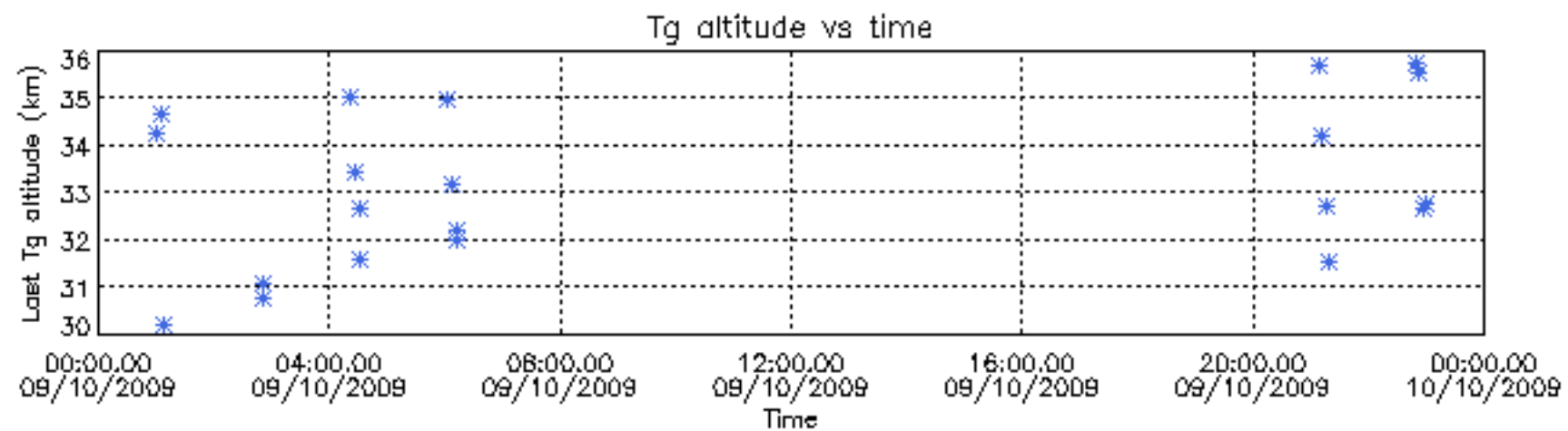
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

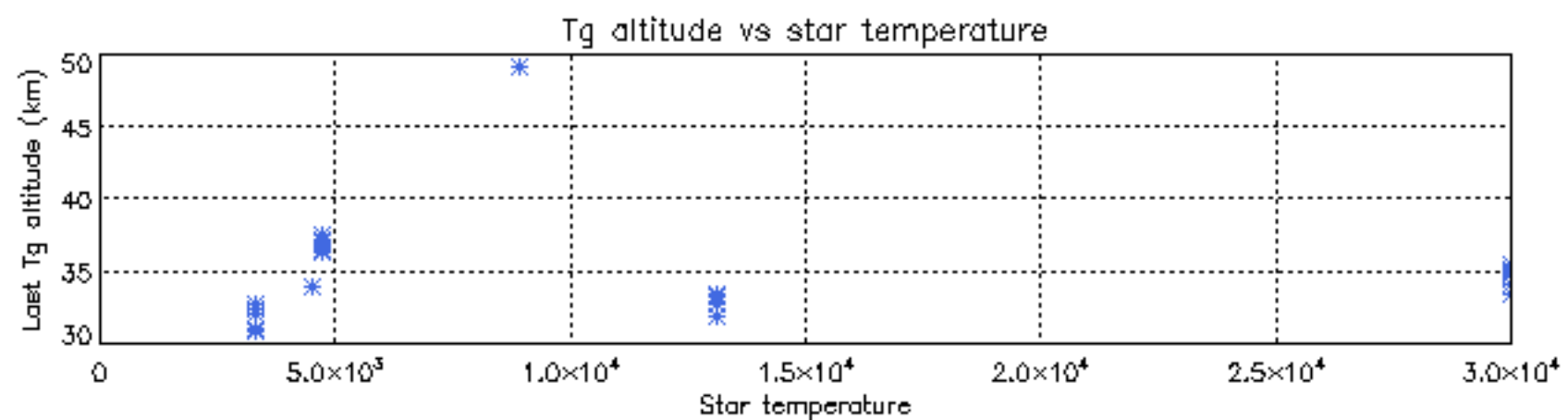
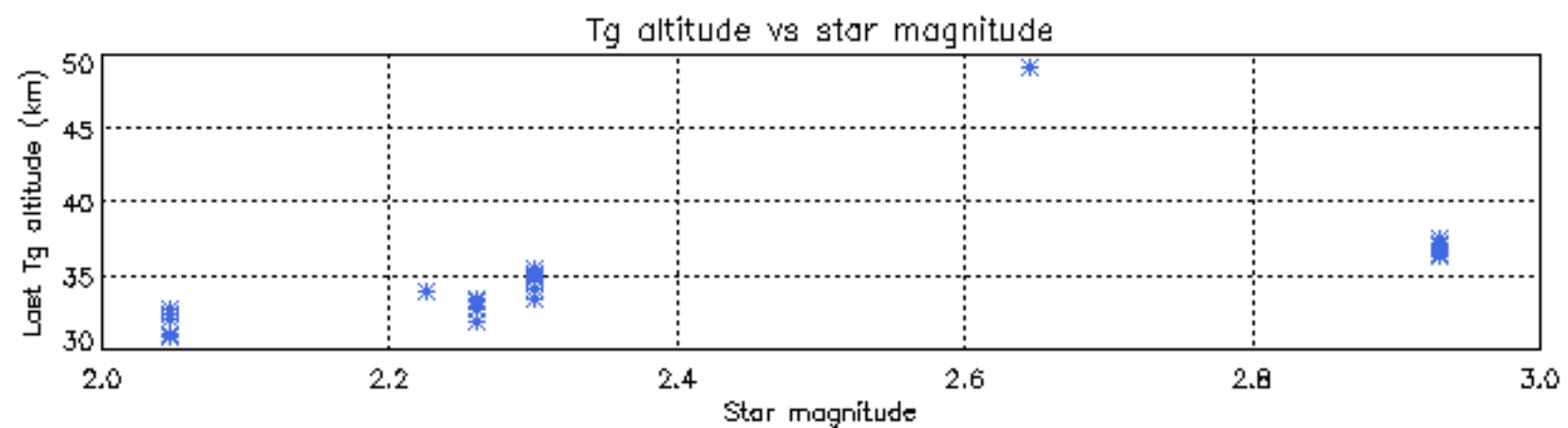
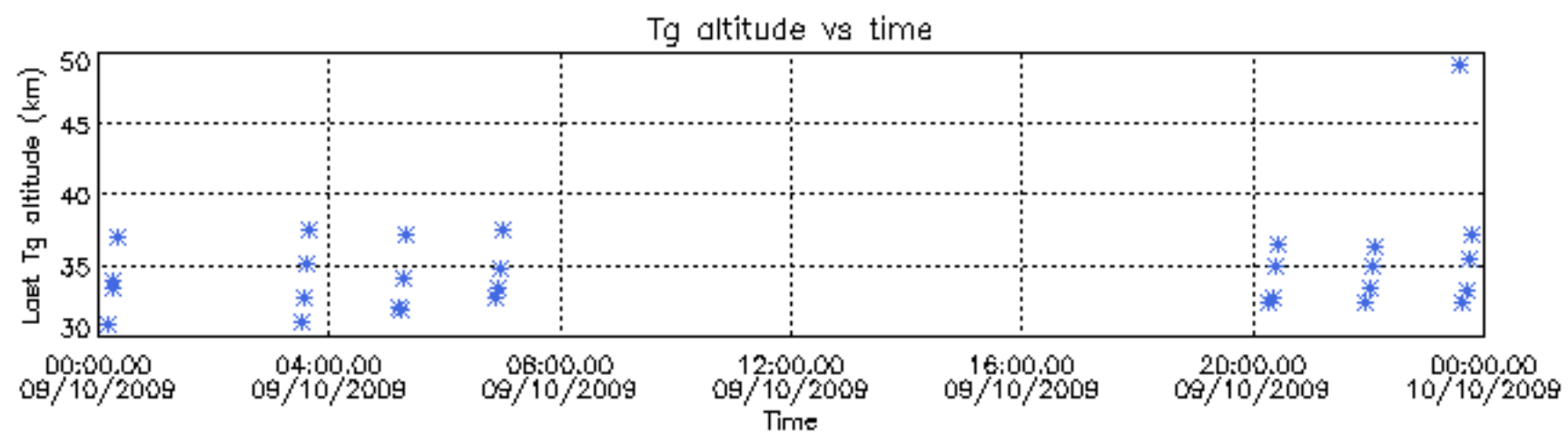


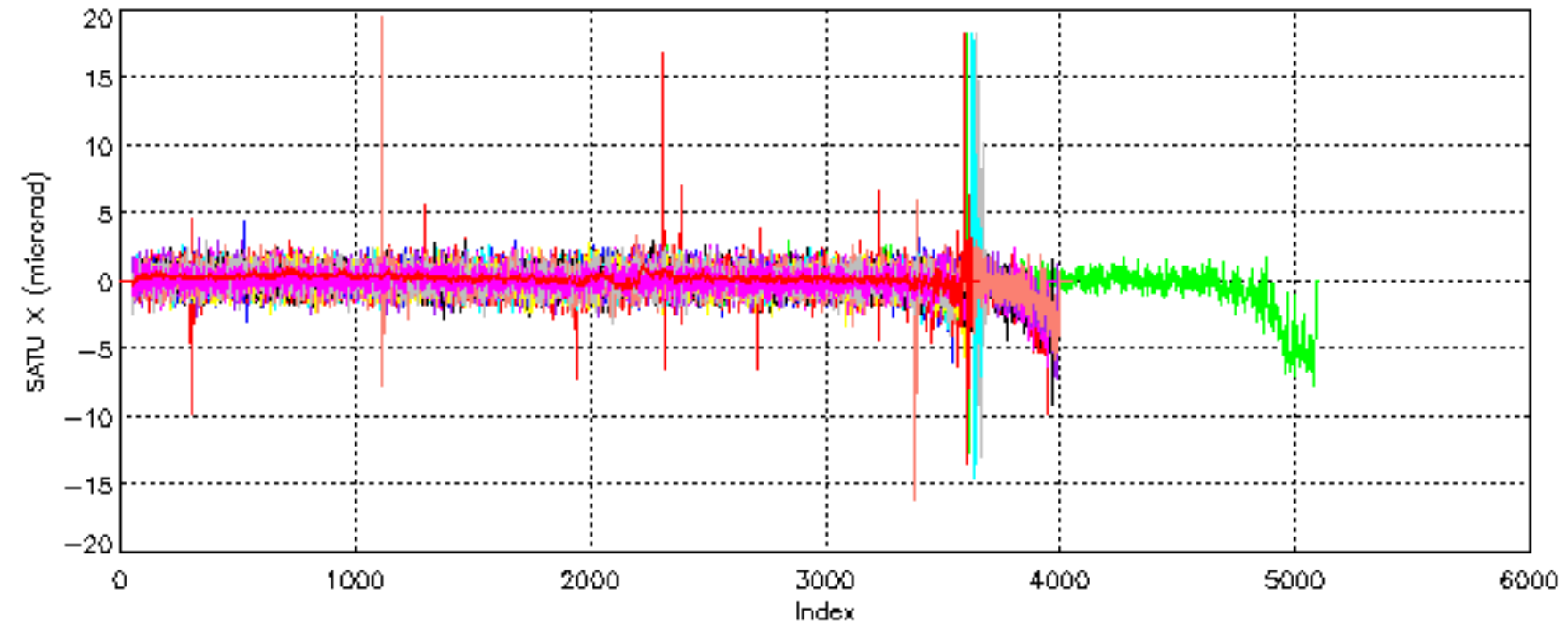
Tangent altitude at which the star is lost

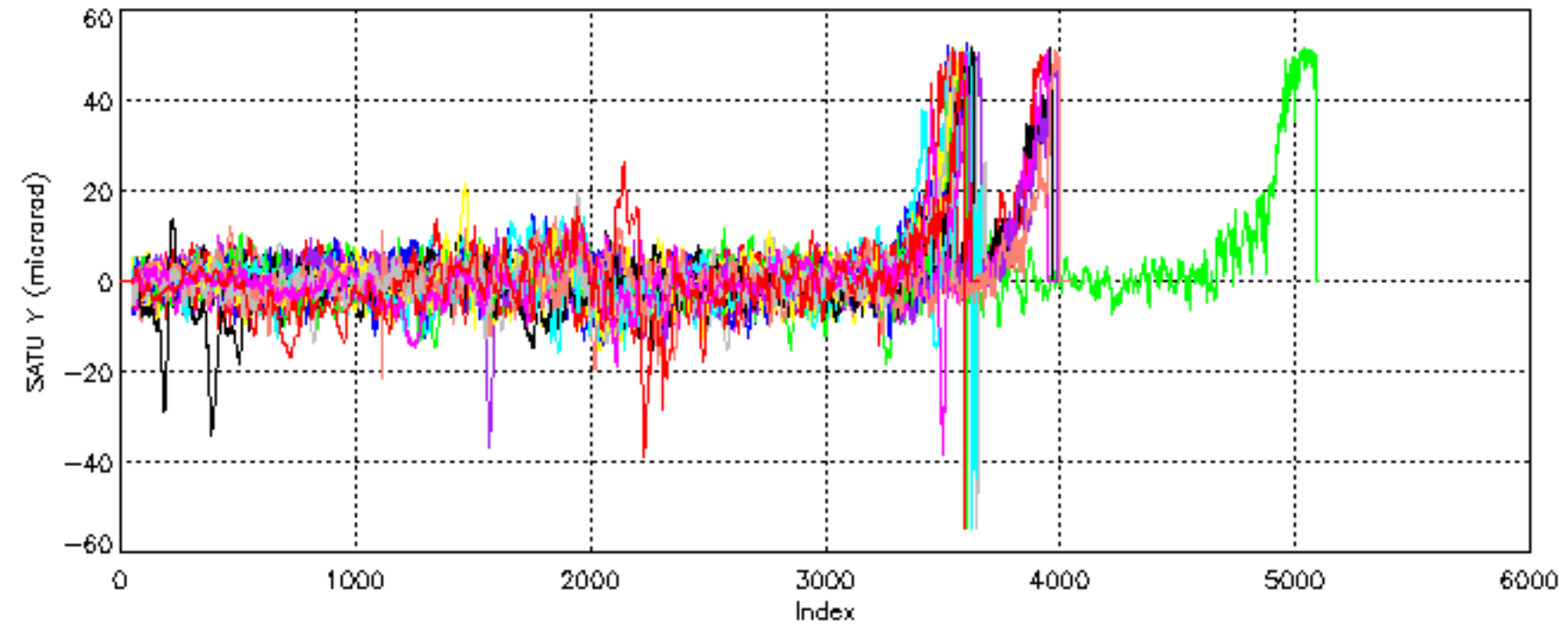




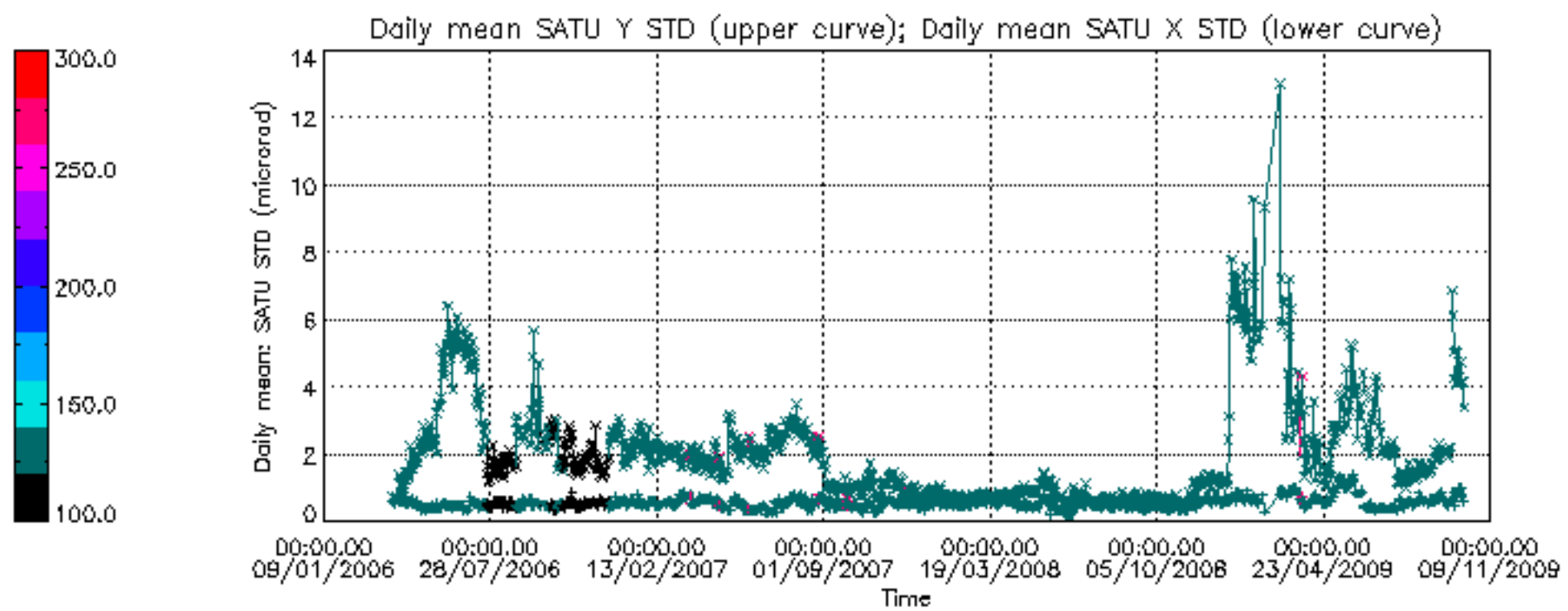
Tangent altitude at which the star is lost











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3; 2656.6; 01-OCT-2009 09:24:38; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39669
4; 2943.5; 01-OCT-2009 09:29:25; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39669
5; 3029.4; 01-OCT-2009 09:30:51; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;39669
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6; 3028.8; 01-OCT-2009 12:52:02; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39671
7; 4603.6; 01-OCT-2009 13:18:17; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;39671
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11; 6142.5; 01-OCT-2009 13:43:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39671
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4; 2654.6; 01-OCT-2009 14:26:24; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39672
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5; 118.0; 02-OCT-2009 04:49:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39681
6; 331.6; 02-OCT-2009 04:53:04; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39681
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5; 2936.0; 02-OCT-2009 20:41:52; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39690
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2; 2573.4; 25-OCT-2009 11:49:51; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40014
3; 2693.0; 25-OCT-2009 11:51:51; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40014
4; 6149.4; 25-OCT-2009 12:49:27; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40014
5; 6296.2; 25-OCT-2009 12:51:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40014
6; 6486.4; 25-OCT-2009 12:55:04; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;40014
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2; 2573.1; 25-OCT-2009 13:30:26; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40015
3; 2692.5; 25-OCT-2009 13:32:26; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40015
4; 6487.8; 25-OCT-2009 14:35:41; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;40015
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2; 2572.6; 25-OCT-2009 15:11:02; Bright; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;40016
3; 2692.3; 25-OCT-2009 15:13:02; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40016
4; 4887.7; 25-OCT-2009 15:49:37; Bright; 45.0; 22; 32Alp Leo ; 1.36; 15200;occ; 90; 0;40016
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2; 2569.4; 26-OCT-2009 04:35:46; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40024
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2; 2568.9; 26-OCT-2009 06:16:22; Bright; 2.0; 173; 4Bet Tri ; 3.00; 8900;occ; 4; 0;40025
3; 2688.2; 26-OCT-2009 06:18:21; Bright; 3.5; 73; 57Gam1And ; 2.26; 13100;occ; 7; 0;40025
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2; 123.6; 26-OCT-2009 07:16:12; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40026
3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
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2; 2687.5; 26-OCT-2009 11:20:08; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40028
3; 6162.6; 26-OCT-2009 12:18:03; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40028
4; 6309.4; 26-OCT-2009 12:20:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40028
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3; 5407.6; 26-OCT-2009 13:46:04; Dark ; 19.5; 48; 30Alp Hya ; 1.98; 4100;occ; 39; 0;40029
4; 6163.3; 26-OCT-2009 13:58:40; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40029
5; 6310.4; 26-OCT-2009 14:01:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40029
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2; 2686.9; 26-OCT-2009 14:41:19; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40030
3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
4; 6311.4; 26-OCT-2009 15:41:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40030
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3; 6313.3; 26-OCT-2009 19:02:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40032
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3; 278.2; 26-OCT-2009 20:43:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40034
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2; 2681.2; 27-OCT-2009 15:50:12; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40045
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