

# GOMOS Daily Report 20-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	23OCT2009 04:39:31
Data source version	GOMOS/5.00L03
Start time of products	20OCT2009 00:00:31
Stop time of products	20OCT2009 23:55:16
Store outputs in DB	Yes
Nb of level 1b prods	66
Nb of prods with errors	1

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

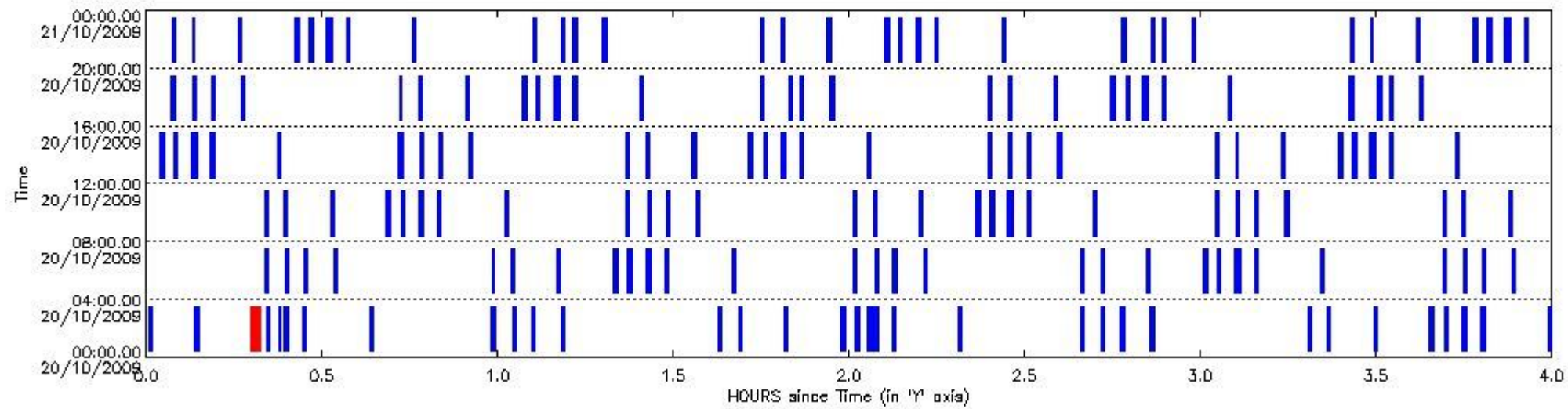
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

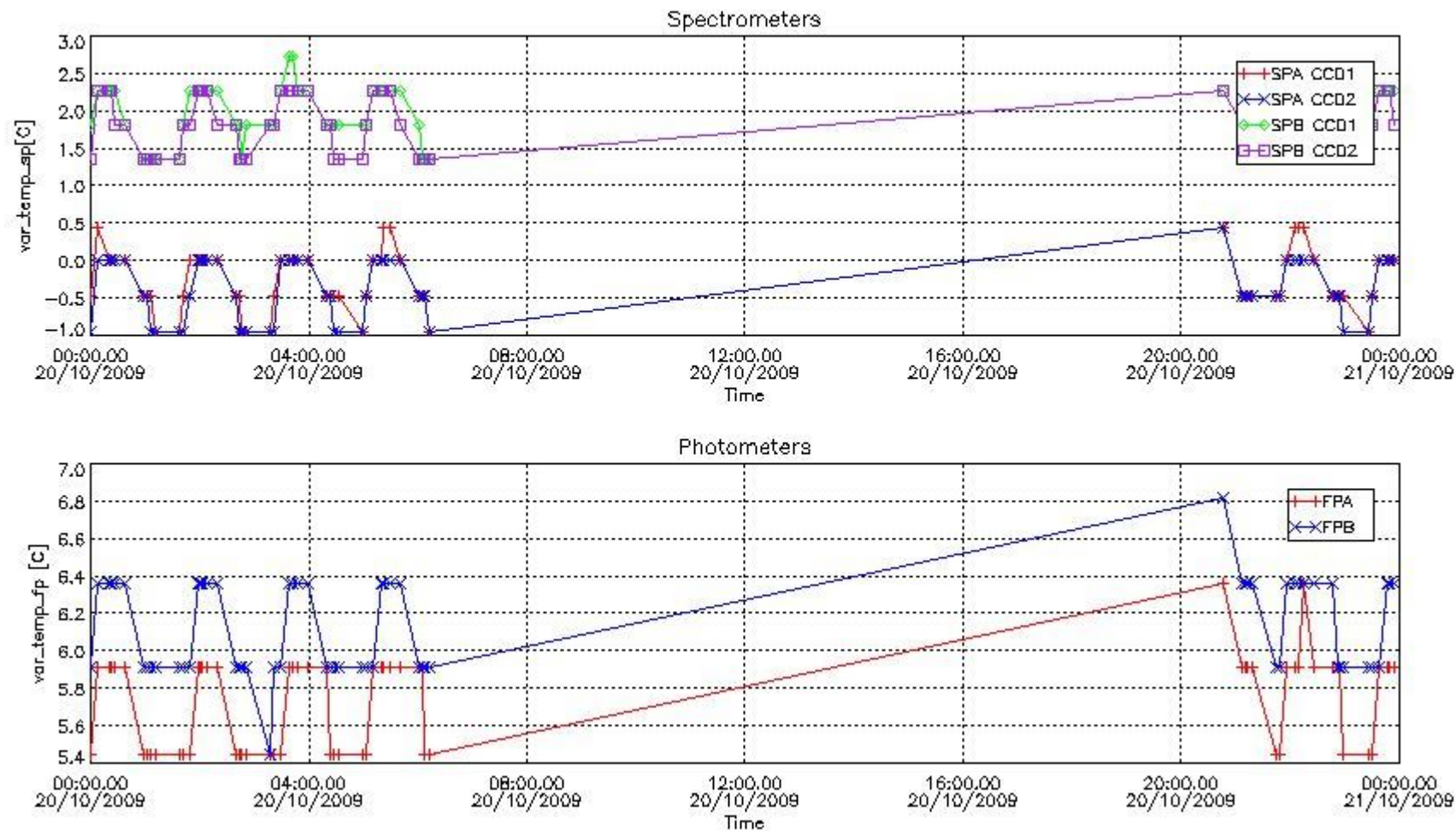
UTC start time	Star name	Star ID	Orbit
20-OCT-2009 00:17:56	15RhoPup	132	39935

### 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_1PNPDE20091020_000031_000000302083_00302_39935_1419.N1	20-OCT-2009 00:00:31	Bright	29.500	22	32Alp Leo	1.3600	15200.	59	39935	No
2	GOM_TRA_1PNPDE20091020_000818_000000362083_00302_39935_1418.N1	20-OCT-2009 00:08:18	Dark	36.000	48	30Alp Hya	1.9770	4100.0	72	39935	Yes
3	GOM_TRA_1PNPDE20091020_002024_000000402083_00303_39936_1419.N1	20-OCT-2009 00:20:24	Dark	39.500	70	Zet Pup	2.2460	39000.	79	39936	No
4	GOM_TRA_1PNPDE20091020_002232_000000272083_00303_39936_1420.N1	20-OCT-2009 00:22:32	Dark	27.000	88	31Eta CMa	2.4480	20000.	54	39936	No
5	GOM_TRA_1PNPDE20091020_002642_000000382083_00303_39936_1421.N1	20-OCT-2009 00:26:42	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39936	No
6	GOM_TRA_1PNPDE20091020_003808_000000352083_00303_39936_1422.N1	20-OCT-2009 00:38:08	Straylight	34.500	157	The1Eri	2.9060	9300.0	69	39936	No
7	GOM_TRA_1PNPDE20091020_005856_000000382083_00303_39936_1423.N1	20-OCT-2009 00:58:56	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	39936	No
8	GOM_TRA_1PNPDE20091020_010232_000000342083_00303_39936_1424.N1	20-OCT-2009 01:02:32	Bright	34.000	53	43Bet And	2.0480	3300.0	68	39936	No
9	GOM_TRA_1PNPDE20091020_010544_000000382083_00303_39936_1425.N1	20-OCT-2009 01:05:44	Bright	37.500	73	57Gam1And	2.2600	13100.	75	39936	No
10	GOM_TRA_1PNPDE20091020_011053_000000392083_00303_39936_1426.N1	20-OCT-2009 01:10:53	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	39936	No

11	GOM_TRA_1PNPDE20091020_013745_000000312083_00303_39936_1427.N1	20-OCT-2009 01:37:45	Twilight	31.000	166	17Eps Leo	2.9800	6000.0	62	39936	No
12	GOM_TRA_1PNPDE20091020_014107_000000302083_00303_39936_1428.N1	20-OCT-2009 01:41:07	Bright	29.500	22	32Alp Leo	1.3600	15200.	59	39936	No
13	GOM_TRA_1PNPDE20091020_014855_000000362083_00303_39936_1422.N1	20-OCT-2009 01:48:55	Dark	36.000	48	30Alp Hya	1.9770	4100.0	72	39936	No
14	GOM_TRA_1PNPDE20091020_015828_000000492083_00303_39936_1423.N1	20-OCT-2009 01:58:28	Dark	48.500	132	15Rho Pup	2.8030	6900.0	97	39936	No
15	GOM_TRA_1PNPDE20091020_020101_000000402083_00304_39937_1424.N1	20-OCT-2009 02:01:01	Dark	39.500	70	Zet Pup	2.2460	39000.	79	39937	No
16	GOM_TRA_1PNPDE20091020_020309_000000272083_00304_39937_1425.N1	20-OCT-2009 02:03:09	Dark	27.000	88	31Eta CMa	2.4480	20000.	54	39937	No
17	GOM_TRA_1PNPDE20091020_020719_000000382083_00304_39937_1426.N1	20-OCT-2009 02:07:19	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39937	No
18	GOM_TRA_1PNPDE20091020_021845_000000352083_00304_39937_1427.N1	20-OCT-2009 02:18:45	Straylight	34.500	157	The1Eri	2.9060	9300.0	69	39937	No
19	GOM_TRA_1PNPDE20091020_023932_000000382083_00304_39937_1428.N1	20-OCT-2009 02:39:32	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	39937	No
20	GOM_TRA_1PNPDE20091020_024308_000000342083_00304_39937_1429.N1	20-OCT-2009 02:43:08	Bright	34.000	53	43Bet And	2.0480	3300.0	68	39937	No
21	GOM_TRA_1PNPDE20091020_024620_000000382083_00304_39937_1430.N1	20-OCT-2009 02:46:20	Bright	37.500	73	57Gam1And	2.2600	13100.	75	39937	No
22	GOM_TRA_1PNPDE20091020_025128_000000392083_00304_39937_1431.N1	20-OCT-2009 02:51:28	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	39937	No
23	GOM_TRA_1PNPDE20091020_031822_000000312083_00304_39937_1431.N1	20-OCT-2009 03:18:22	Twilight	31.000	166	17Eps Leo	2.9800	6000.0	62	39937	No
24	GOM_TRA_1PNPDE20091020_032144_000000302083_00304_39937_1432.N1	20-OCT-2009 03:21:44	Bright	30.000	22	32Alp Leo	1.3600	15200.	60	39937	No
25	GOM_TRA_1PNPDE20091020_032931_000000362083_00304_39937_1433.N1	20-OCT-2009 03:29:31	Dark	36.000	48	30Alp Hya	1.9770	4100.0	72	39937	No
26	GOM_TRA_1PNPDE20091020_033905_000000492083_00304_39937_1434.N1	20-OCT-2009 03:39:05	Dark	48.500	132	15Rho Pup	2.8030	6900.0	97	39937	No
27	GOM_TRA_1PNPDE20091020_034138_000000402083_00305_39938_1435.N1	20-OCT-2009 03:41:38	Dark	39.500	70	Zet Pup	2.2460	39000.	79	39938	No
28	GOM_TRA_1PNPDE20091020_034755_000000382083_00305_39938_1436.N1	20-OCT-2009 03:47:55	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39938	No
29	GOM_TRA_1PNPDE20091020_035922_000000352083_00305_39938_1437.N1	20-OCT-2009 03:59:22	Straylight	34.500	157	The1Eri	2.9060	9300.0	69	39938	No
30	GOM_TRA_1PNPDE20091020_042008_000000382083_00305_39938_1438.N1	20-OCT-2009 04:20:08	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	39938	No
31	GOM_TRA_1PNPDE20091020_042344_000000342083_00305_39938_1439.N1	20-OCT-2009 04:23:44	Bright	33.500	53	43Bet And	2.0480	3300.0	67	39938	No
32	GOM_TRA_1PNPDE20091020_042655_000000382083_00305_39938_1440.N1	20-OCT-2009 04:26:55	Bright	37.500	73	57Gam1And	2.2600	13100.	75	39938	No
33	GOM_TRA_1PNPDE20091020_043203_000000392083_00305_39938_1441.N1	20-OCT-2009 04:32:03	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	39938	No
34	GOM_TRA_1PNPDE20091020_045858_000000312083_00305_39938_1437.N1	20-OCT-2009 04:58:58	Twilight	31.000	166	17Eps Leo	2.9800	6000.0	62	39938	No
35	GOM_TRA_1PNPDE20091020_050220_000000302083_00305_39938_1438.N1	20-OCT-2009 05:02:20	Bright	30.000	22	32Alp Leo	1.3600	15200.	60	39938	No
36	GOM_TRA_1PNPDE20091020_051009_000000362083_00305_39938_1439.N1	20-OCT-2009 05:10:09	Dark	36.000	48	30Alp Hya	1.9770	4100.0	72	39938	No
37	GOM_TRA_1PNPDE20091020_051943_000000502083_00305_39938_1440.N1	20-OCT-2009 05:19:43	Dark	49.500	132	15Rho Pup	2.8030	6900.0	99	39938	No
38	GOM_TRA_1PNPDE20091020_052215_000000402083_00306_39939_1441.N1	20-OCT-2009 05:22:15	Dark	40.000	70	Zet Pup	2.2460	39000.	80	39939	No
39	GOM_TRA_1PNPDE20091020_052832_000000382083_00306_39939_1442.N1	20-OCT-2009 05:28:32	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39939	No
40	GOM_TRA_1PNPDE20091020_053958_000000352083_00306_39939_1443.N1	20-OCT-2009 05:39:58	Straylight	34.500	157	The1Eri	2.9060	9300.0	69	39939	No
41	GOM_TRA_1PNPDE20091020_060043_000000382083_00306_39939_1444.N1	20-OCT-2009 06:00:43	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	39939	No
42	GOM_TRA_1PNPDE20091020_060419_000000342083_00306_39939_1445.N1	20-OCT-2009 06:04:19	Bright	34.000	53	43Bet And	2.0480	3300.0	68	39939	No
43	GOM_TRA_1PNPDE20091020_060731_000000382083_00306_39939_1446.N1	20-OCT-2009 06:07:31	Bright	37.500	73	57Gam1And	2.2600	13100.	75	39939	No
44	GOM_TRA_1PNPDE20091020_061238_000000392083_00306_39939_1447.N1	20-OCT-2009 06:12:38	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	39939	No
45	GOM_TRA_1PNPDE20091020_204525_000000342083_00315_39948_1494.N1	20-OCT-2009 20:45:25	Straylight	33.500	157	The1Eri	2.9060	9300.0	67	39948	No
46	GOM_TRA_1PNPDE20091020_210603_000000372083_00315_39948_1495.N1	20-OCT-2009 21:06:03	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	39948	No
47	GOM_TRA_1PNPDE20091020_211053_000000382083_00315_39948_1496.N1	20-OCT-2009 21:10:53	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39948	No
48	GOM_TRA_1PNPDE20091020_211250_000000372083_00315_39948_1497.N1	20-OCT-2009 21:12:50	Bright	36.500	73	57Gam1And	2.2600	13100.	73	39948	No
49	GOM_TRA_1PNPDE20091020_211756_000000382083_00315_39948_1498.N1	20-OCT-2009 21:17:56	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	39948	No
50	GOM_TRA_1PNPDE20091020_214500_000000312083_00315_39948_1499.N1	20-OCT-2009 21:45:00	Twilight	30.500	166	17Eps Leo	2.9800	6000.0	61	39948	No
51	GOM_TRA_1PNPDE20091020_214824_000000292083_00315_39948_1500.N1	20-OCT-2009 21:48:24	Twilight	29.000	22	32Alp Leo	1.3600	15200.	58	39948	No
52	GOM_TRA_1PNPDE20091020_215616_000000362083_00315_39948_1500.N1	20-OCT-2009 21:56:16	Dark	35.500	48	30Alp Hya	1.9770	4100.0	71	39948	No
53	GOM_TRA_1PNPDE20091020_220557_000000492083_00315_39948_1501.N1	20-OCT-2009 22:05:57	Dark	48.500	132	15Rho Pup	2.8030	6900.0	97	39948	No
54	GOM_TRA_1PNPDE20091020_220825_000000392083_00316_39949_1502.N1	20-OCT-2009 22:08:25	Dark	38.500	70	Zet Pup	2.2460	39000.	77	39949	No
55	GOM_TRA_1PNPDE20091020_221439_000000372083_00316_39949_1503.N1	20-OCT-2009 22:14:39	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39949	No
56	GOM_TRA_1PNPDE20091020_222602_000000342083_00316_39949_1504.N1	20-OCT-2009 22:26:02	Straylight	33.500	157	The1Eri	2.9060	9300.0	67	39949	No
57	GOM_TRA_1PNPDE20091020_224638_000000382083_00316_39949_1505.N1	20-OCT-2009 22:46:38	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	39949	No
58	GOM_TRA_1PNPDE20091020_225128_000000382083_00316_39949_1506.N1	20-OCT-2009 22:51:28	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39949	No
59	GOM_TRA_1PNPDE20091020_225325_000000372083_00316_39949_1507.N1	20-OCT-2009 22:53:25	Bright	36.500	73	57Gam1And	2.2600	13100.	73	39949	No
60	GOM_TRA_1PNPDE20091020_225831_000000382083_00316_39949_1508.N1	20-OCT-2009 22:58:31	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	39949	No
61	GOM_TRA_1PNPDE20091020_232536_000000312083_00316_39949_1509.N1	20-OCT-2009 23:25:36	Twilight	30.500	166	17Eps Leo	2.9800	6000.0	61	39949	No
62	GOM_TRA_1PNPDE20091020_232900_000000302083_00316_39949_1510.N1	20-OCT-2009 23:29:00	Twilight	29.500	22	32Alp Leo	1.3600	15200.	59	39949	No
63	GOM_TRA_1PNPDE20091020_233653_000000362083_00316_39949_1506.N1	20-OCT-2009 23:36:53	Dark	35.500	48	30Alp Hya	1.9770	4100.0	71	39949	No
64	GOM_TRA_1PNPDE20091020_234634_000000492083_00316_39949_1507.N1	20-OCT-2009 23:46:34	Dark	48.500	132	15Rho Pup	2.8030	6900.0	97	39949	No
65	GOM_TRA_1PNPDE20091020_234902_000000392083_00317_39950_1508.N1	20-OCT-2009 23:49:02	Dark	39.000	70	Zet Pup	2.2460	39000.	78	39950	No
66	GOM_TRA_1PNPDE20091020_235516_000000372083_00317_39950_1509.N1	20-OCT-2009 23:55:16	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39950	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).

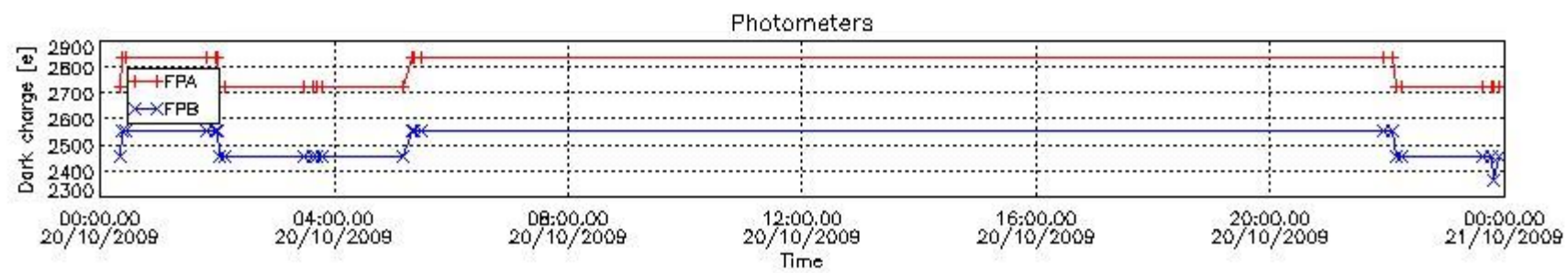
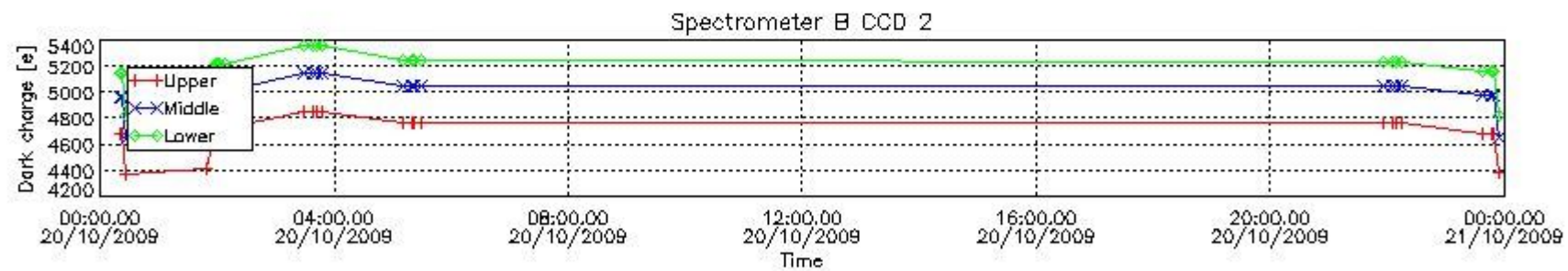
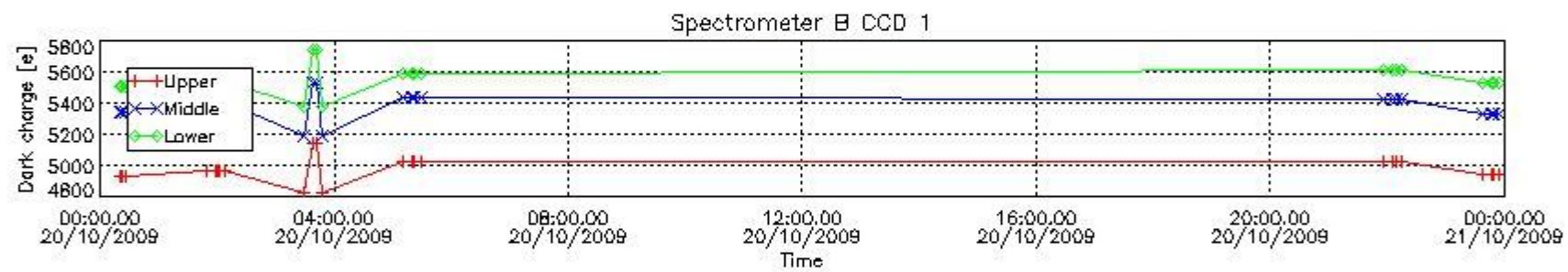
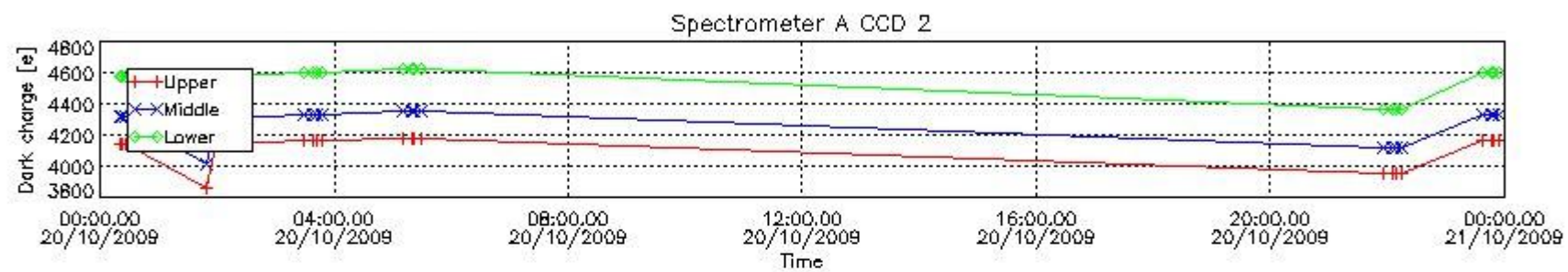
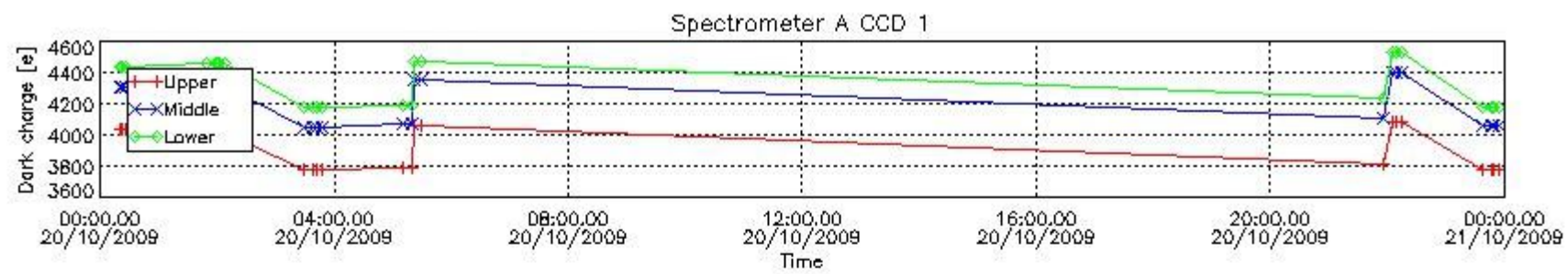
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20091020_204525_000000342083_00315_39948_1494.N1	DC map used
GOM_TRA_1PNPDE20091020_210603_000000372083_00315_39948_1495.N1	DC map used
GOM_TRA_1PNPDE20091020_211053_000000382083_00315_39948_1496.N1	DC map used
GOM_TRA_1PNPDE20091020_211250_000000372083_00315_39948_1497.N1	DC map used
GOM_TRA_1PNPDE20091020_211756_000000382083_00315_39948_1498.N1	DC map used
GOM_TRA_1PNPDE20091020_214500_000000312083_00315_39948_1499.N1	DC map used
GOM_TRA_1PNPDE20091020_214824_000000292083_00315_39948_1500.N1	DC map used

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





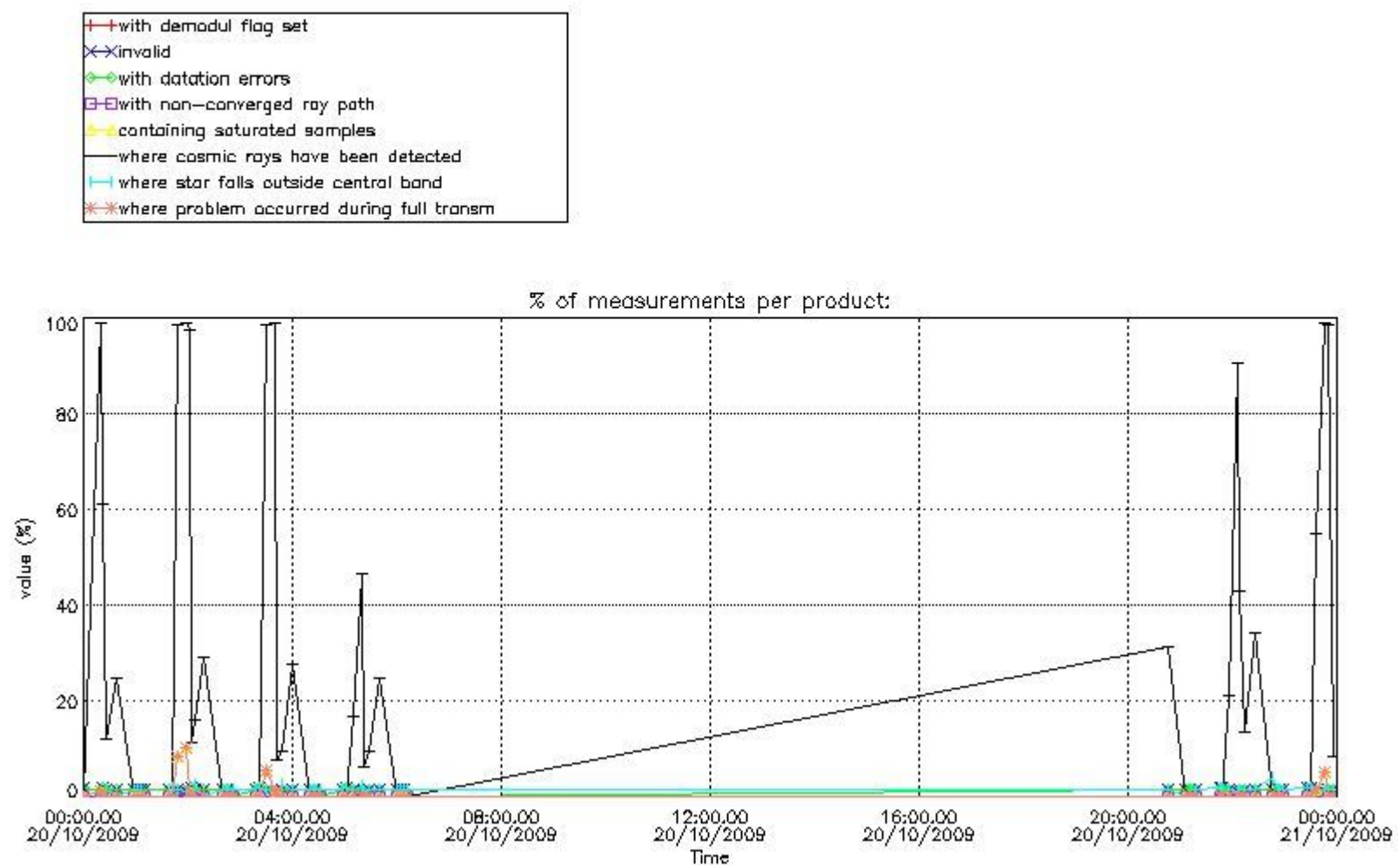
## 5. Demodulation flag and quality information monitoring

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.

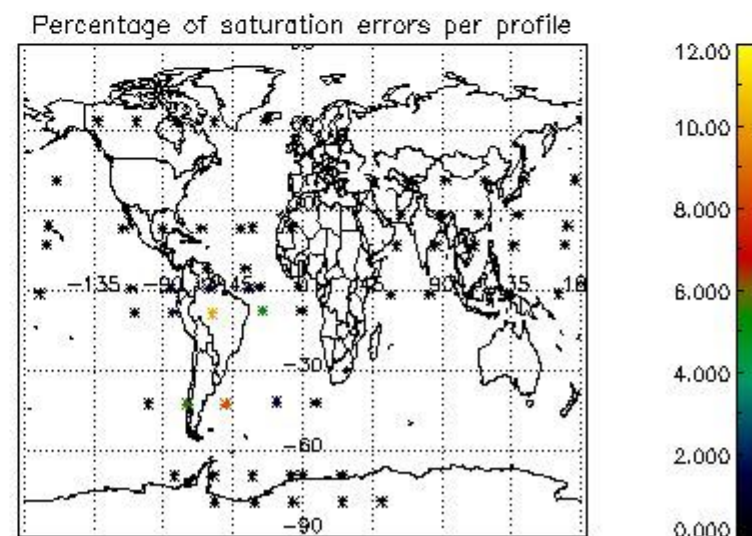
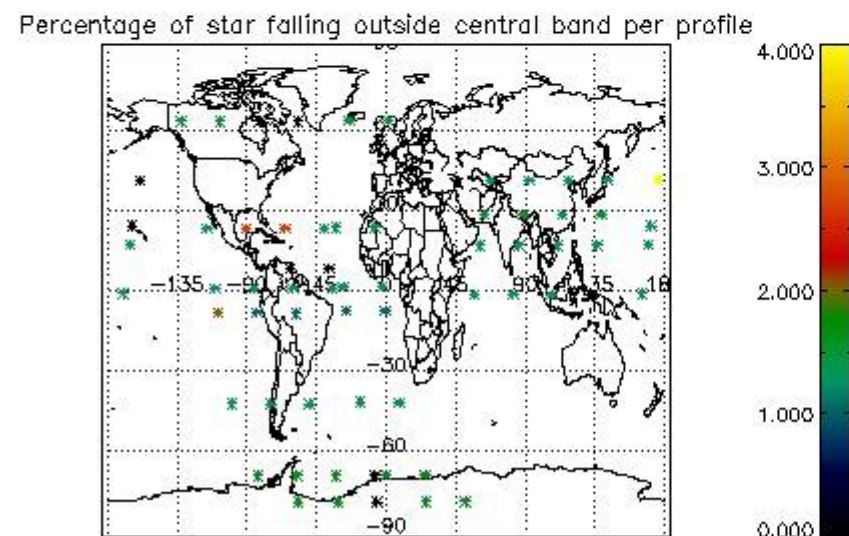
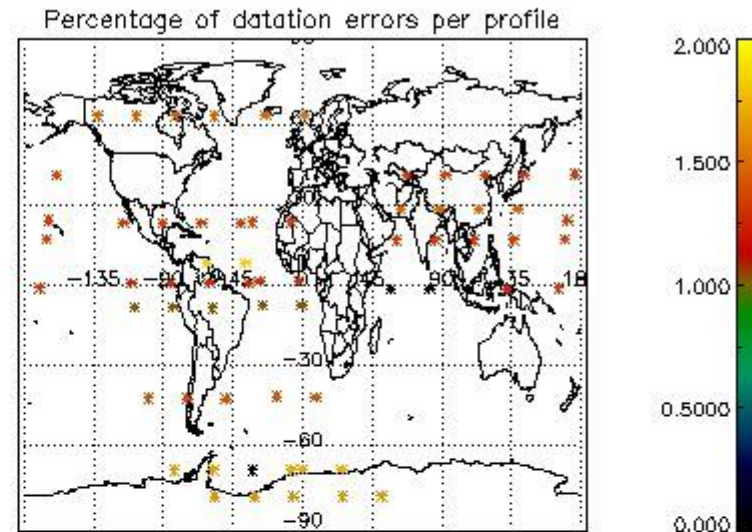
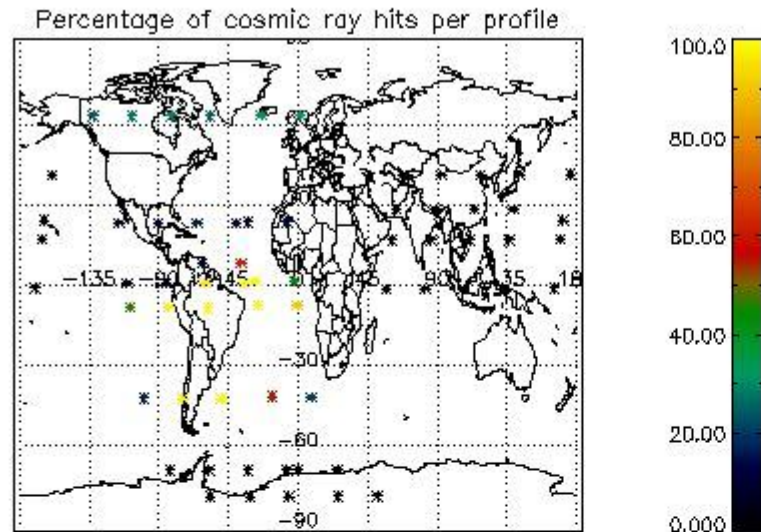
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.9231 %
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)

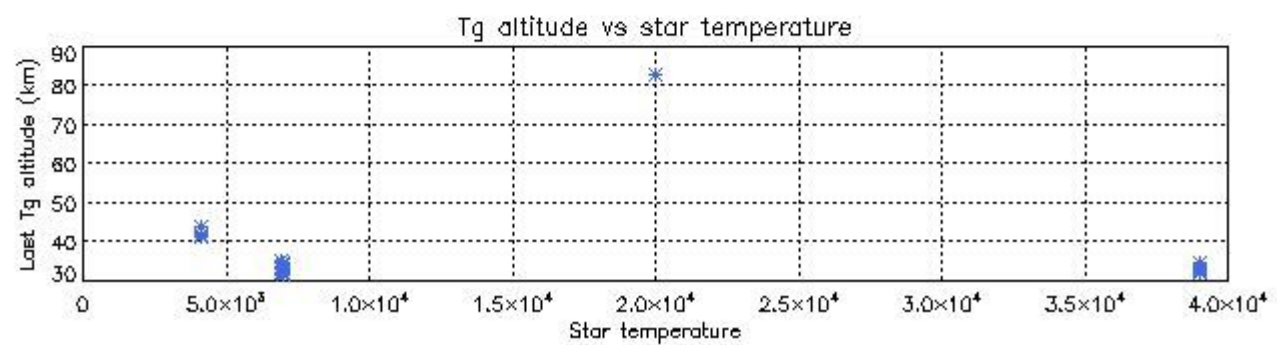
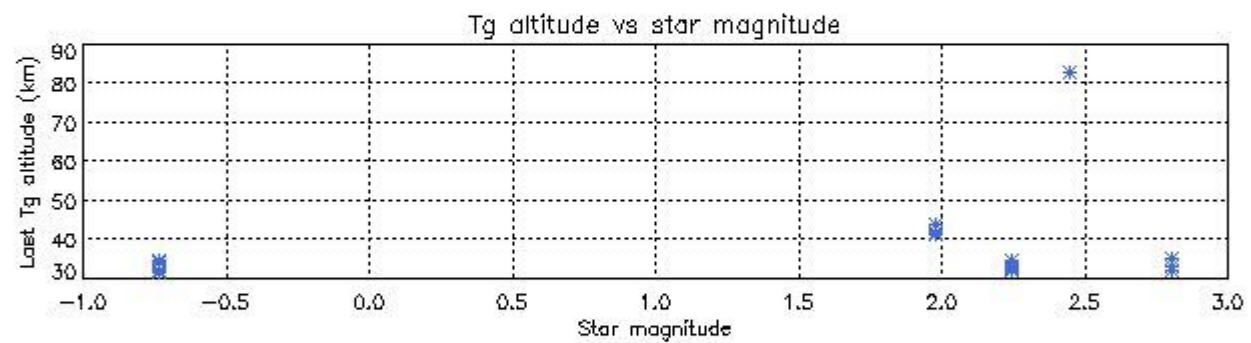
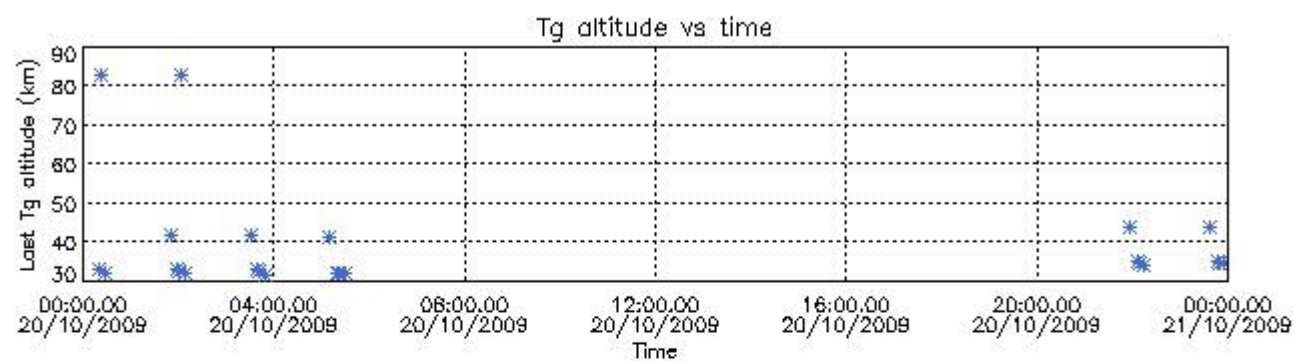
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	39.275	36.235	NaN
St. deviation:	13.976	5.8506	NaN
Maximum:	82.848	50.670	NaN
Minimum:	31.510	32.018	NaN
Number of data:	24.000	28.000	NaN

### 6.2 Plot for DARK limb products



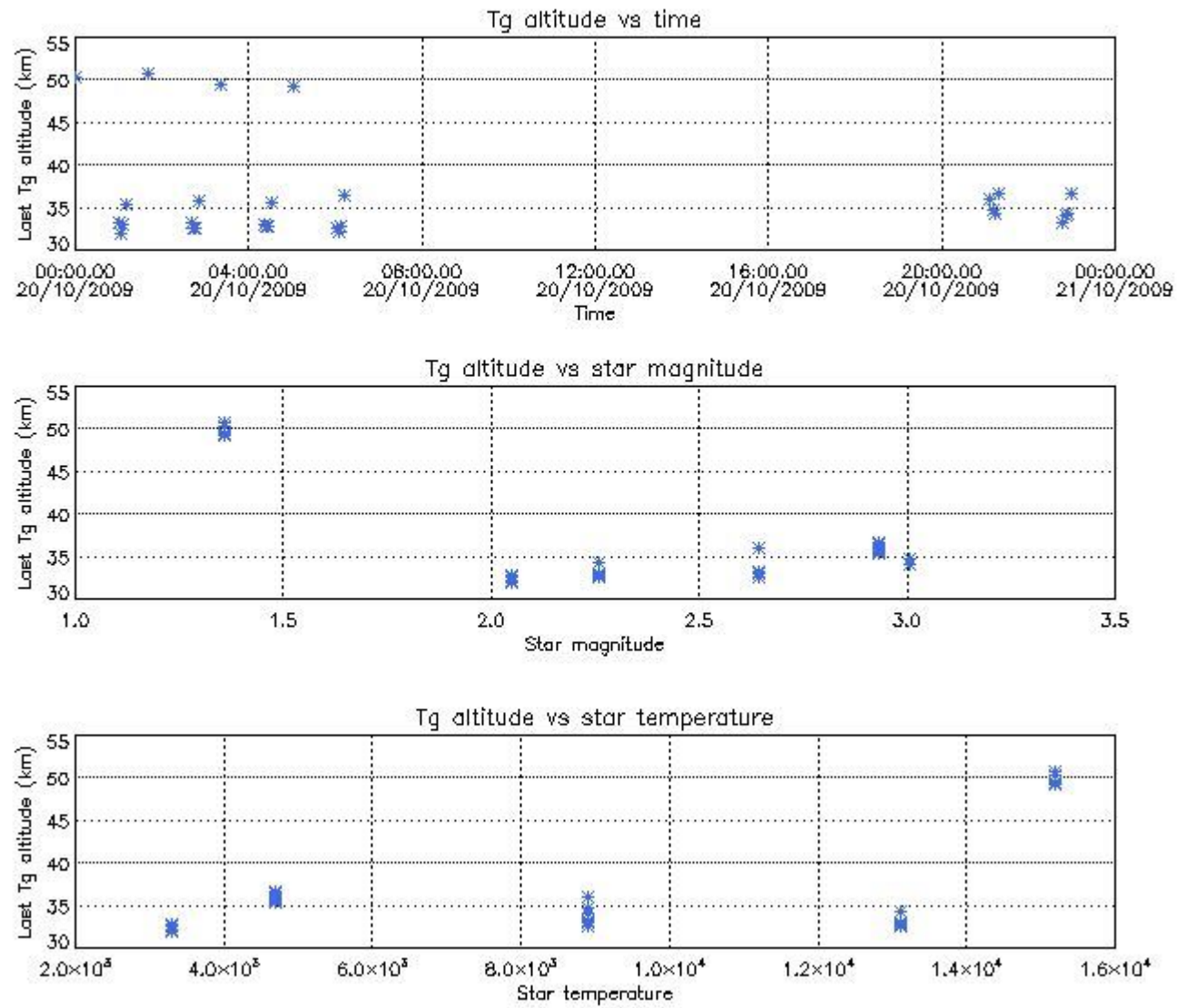
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost

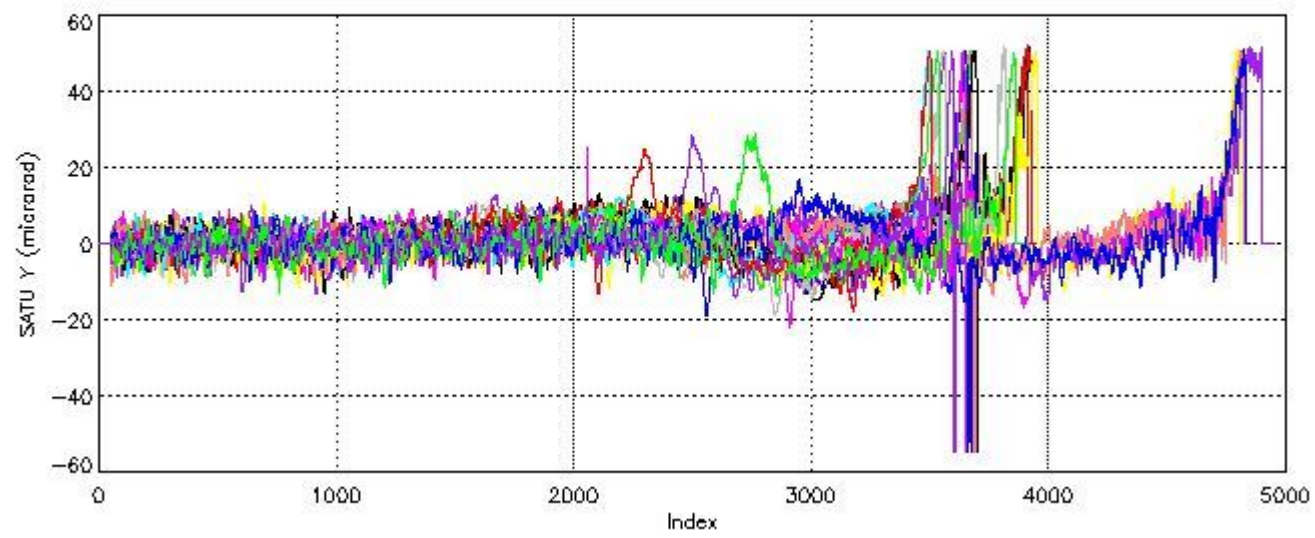
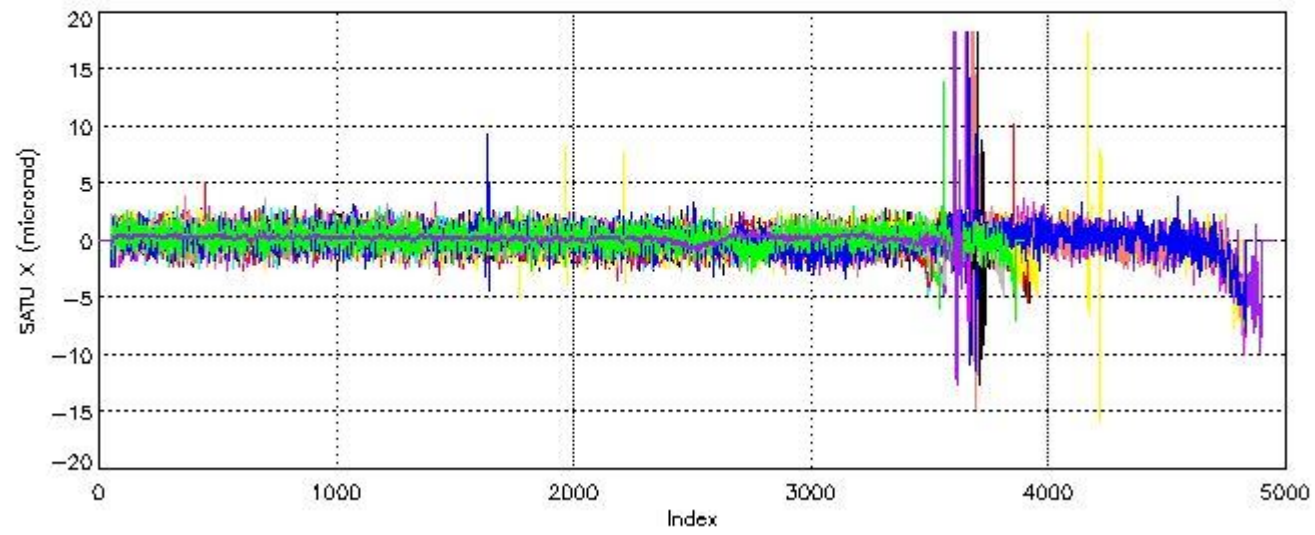


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.25134	-0.29894	0.25108	-0.41964
St. deviation:	0.53831	2.7768	0.75065	3.1385
Maximum:	5.0000	10.300	5.5000	12.800
Minimum:	-2.7000	-13.300	-5.3000	-17.700

Number of data:	28750.	28750.	29300.	29300.
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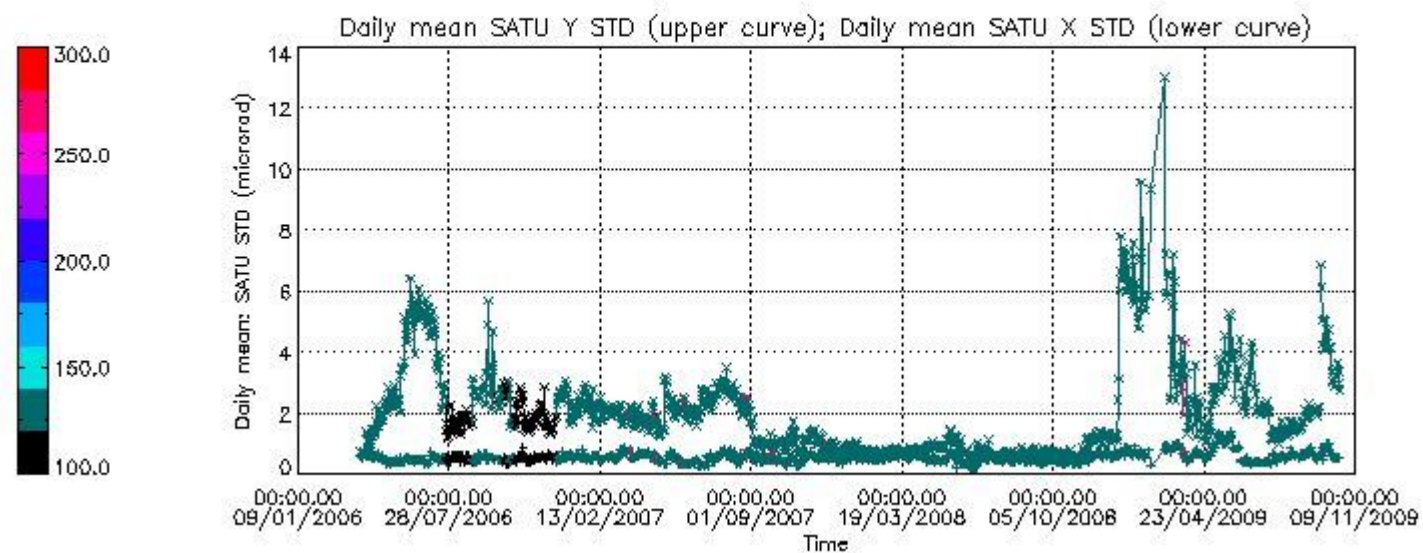
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

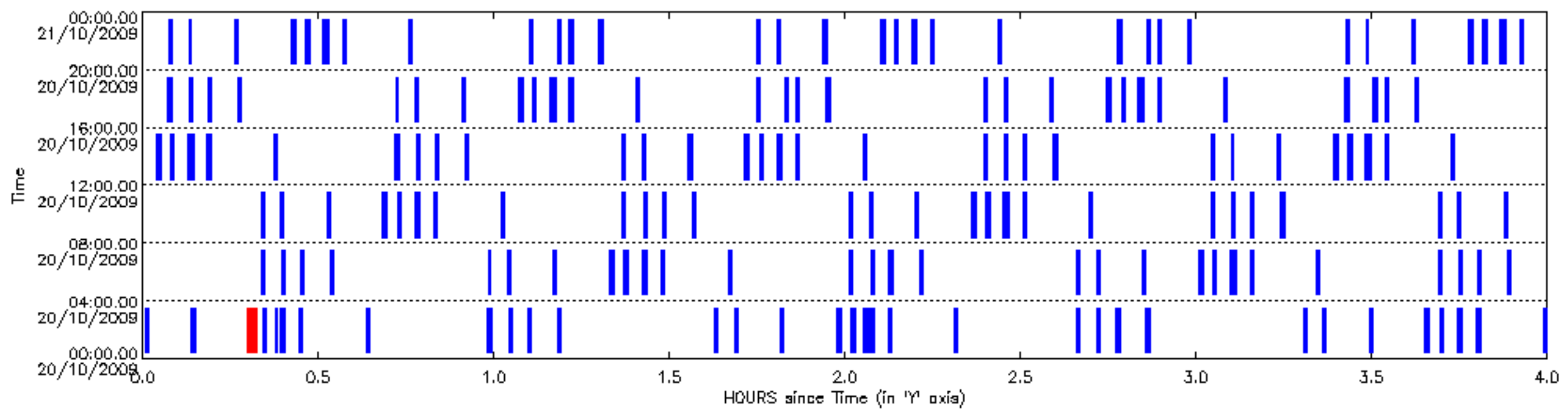


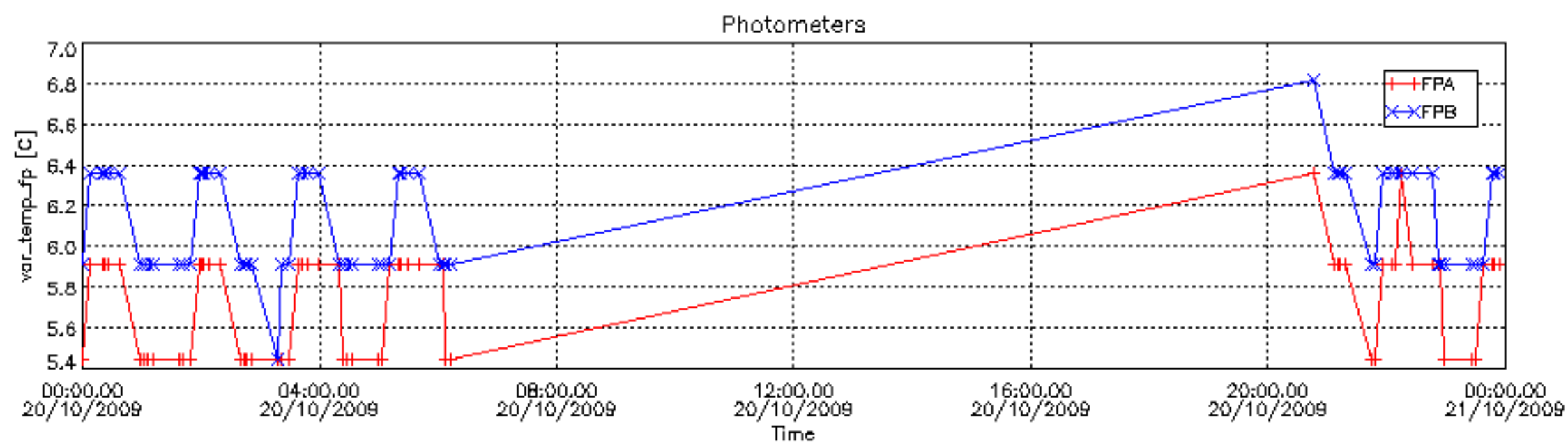
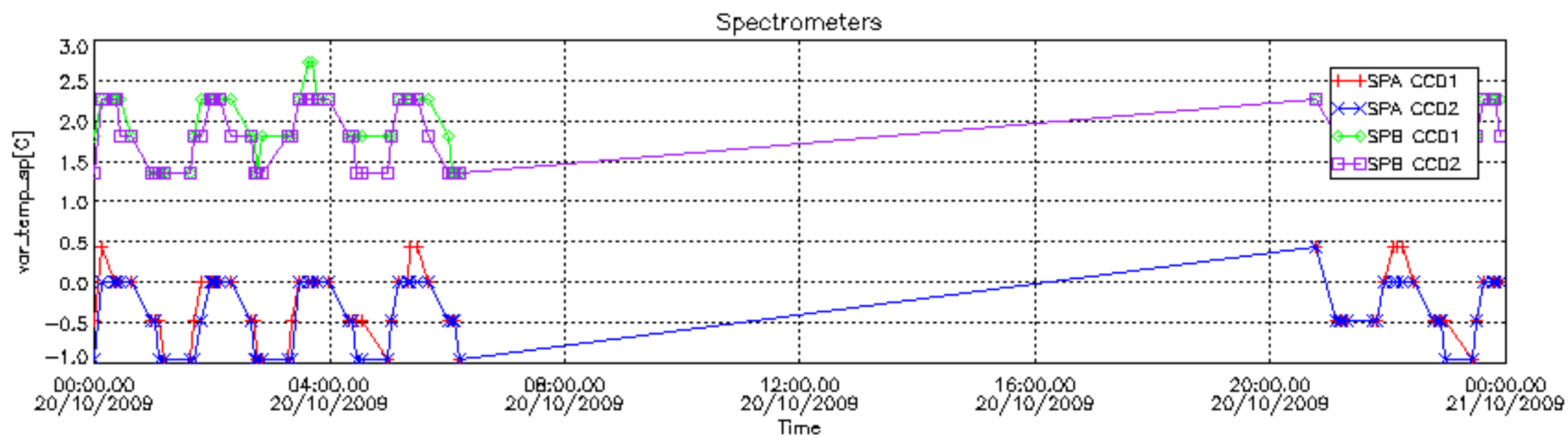
### 8. Auxiliary Data Files used for the production reported in section 2.4

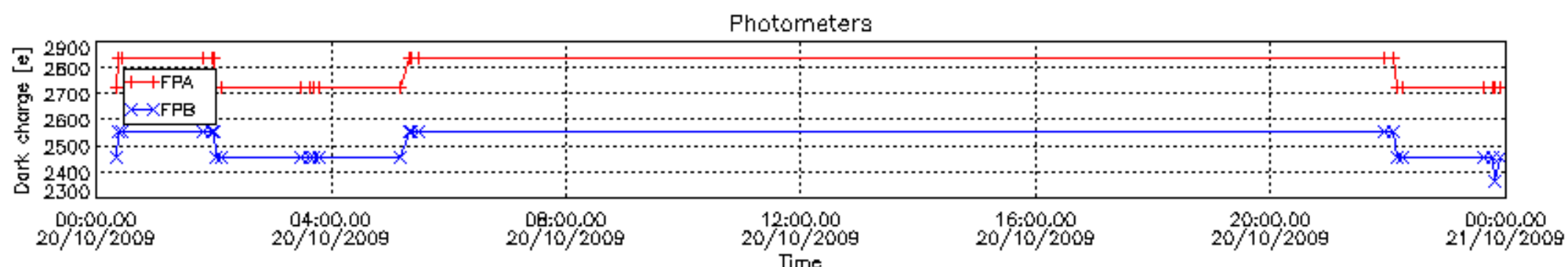
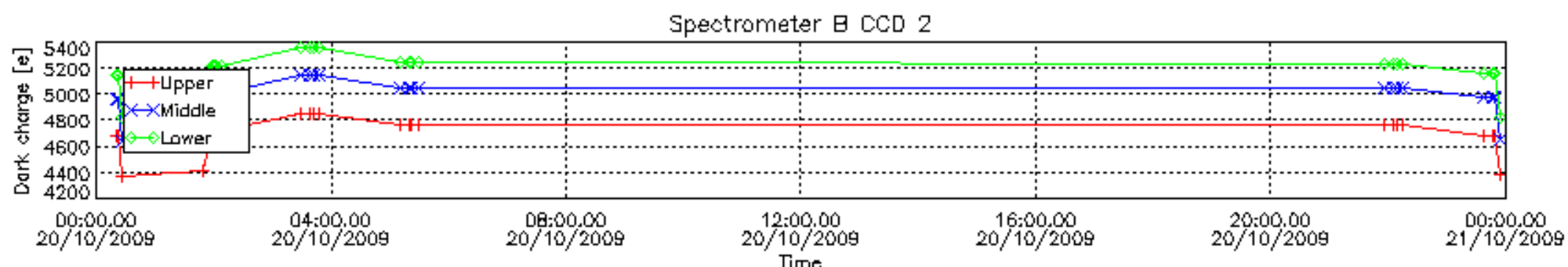
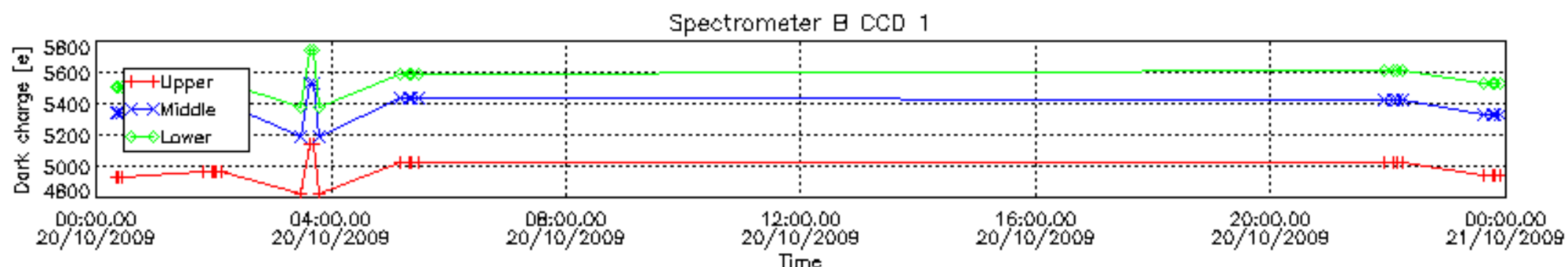
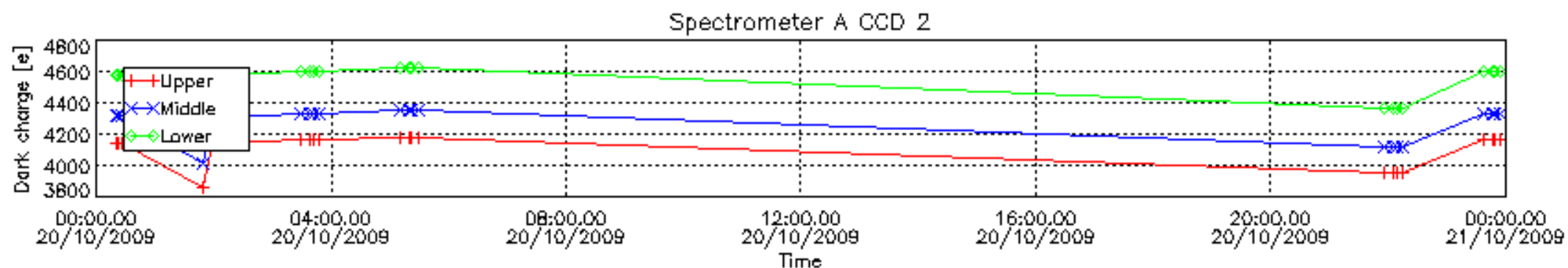
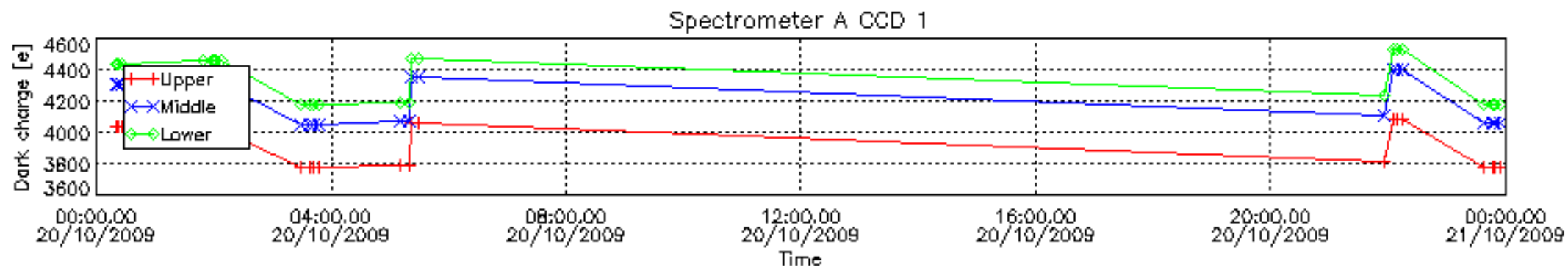
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	20-OCT-2009 00:00:31
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-OCT-2009 00:00:31
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	20-OCT-2009 00:00:31
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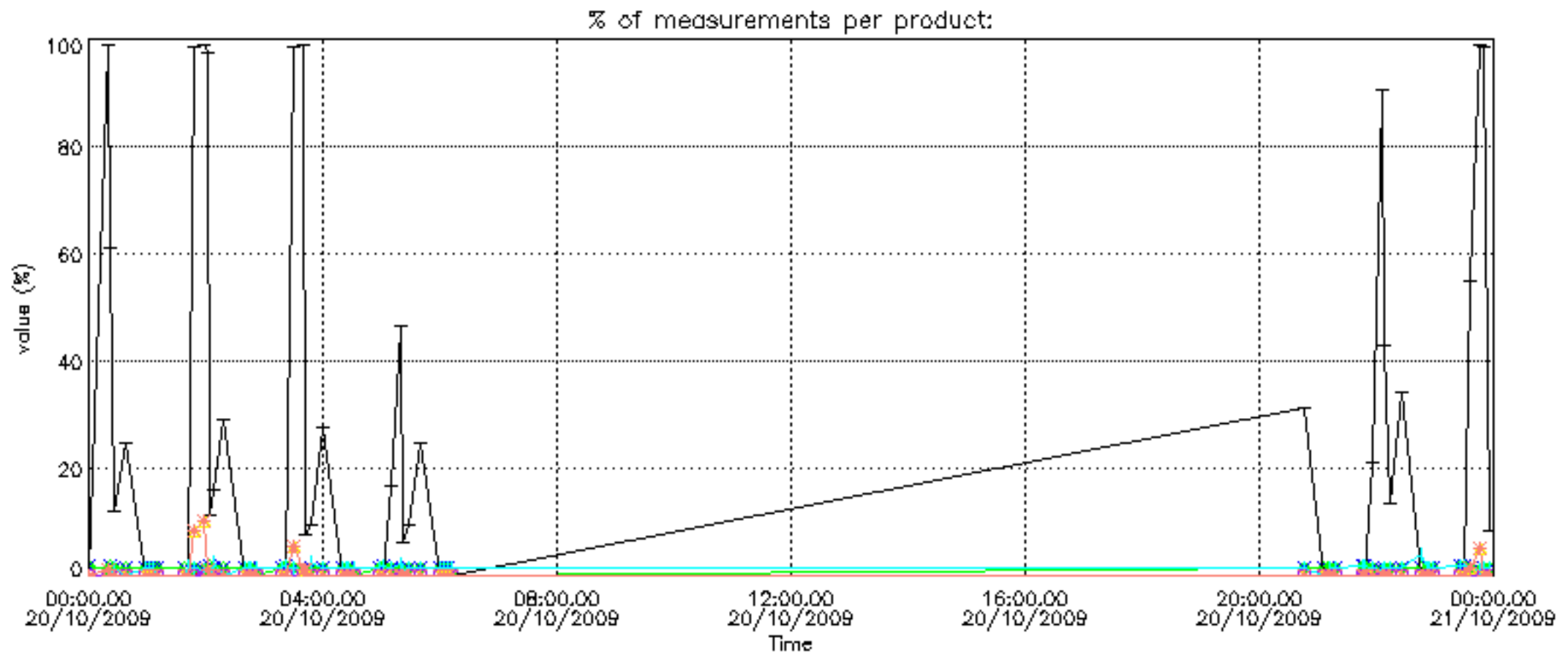




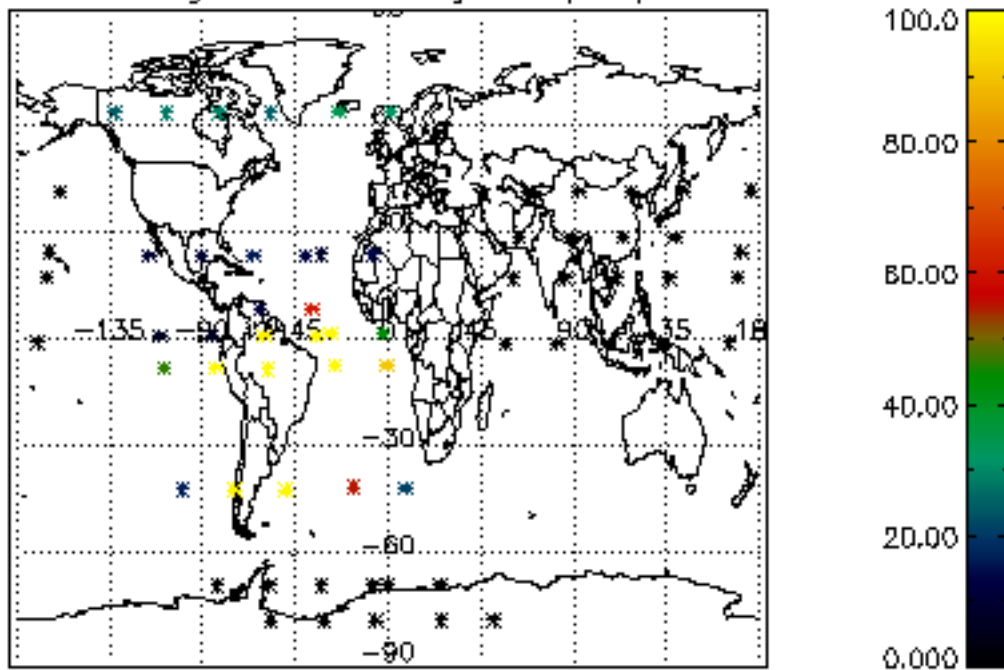




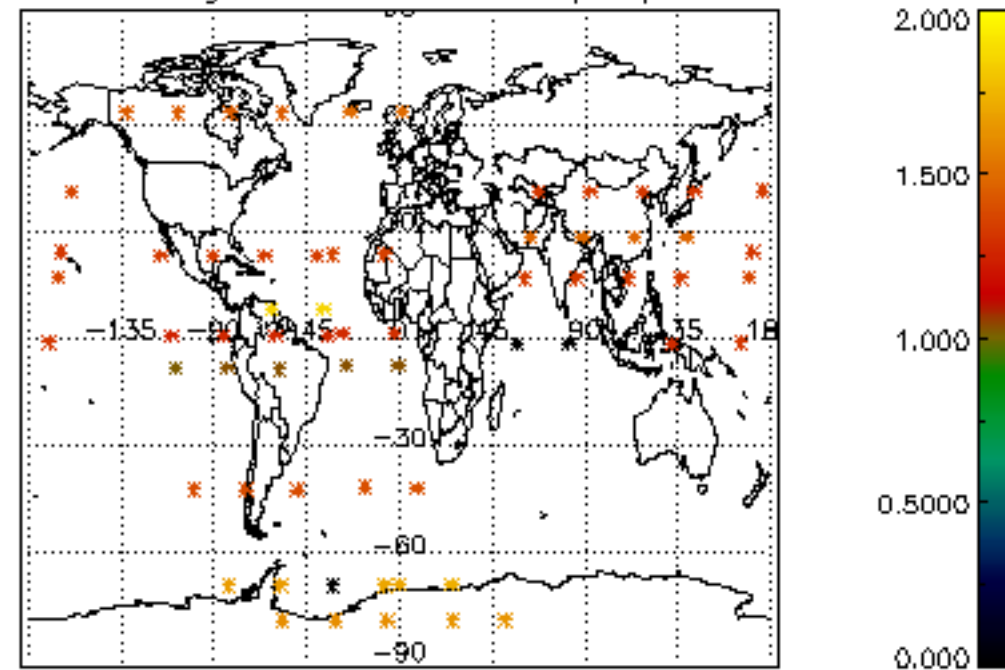




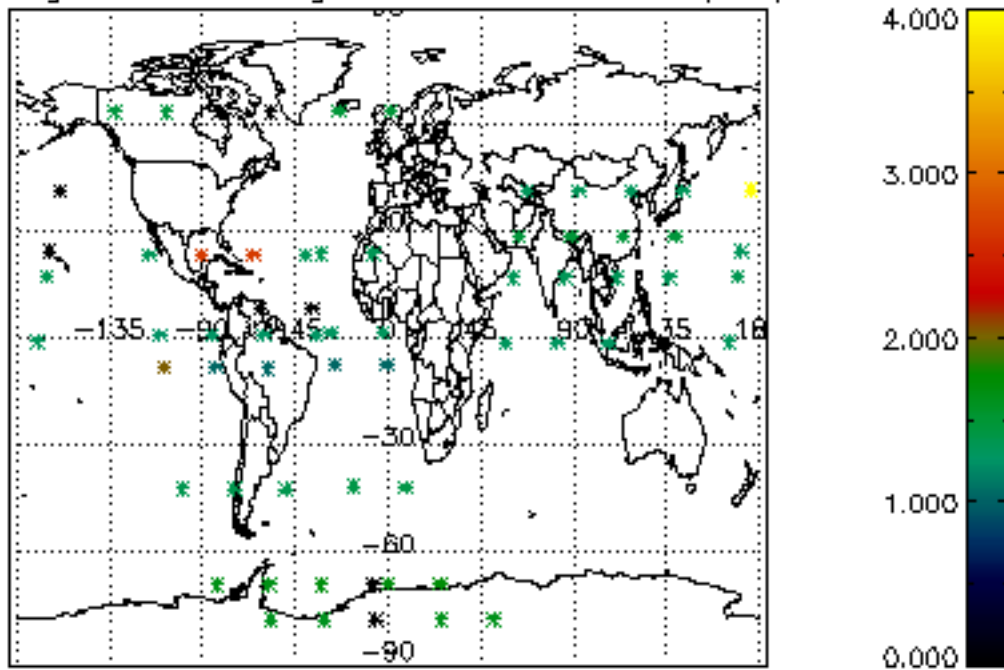
Percentage of cosmic ray hits per profile



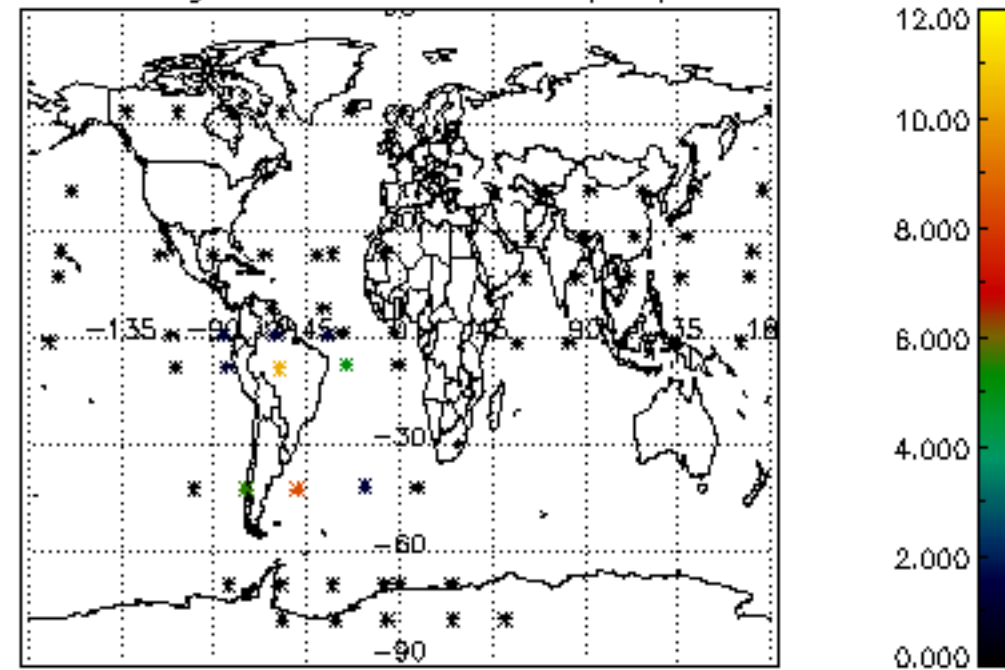
Percentage of datation errors per profile



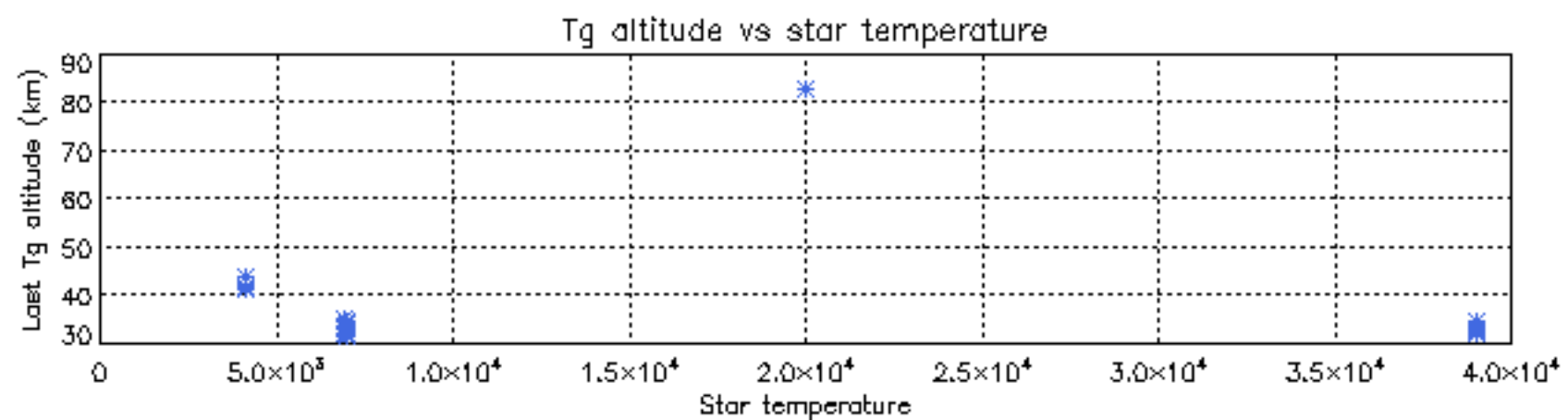
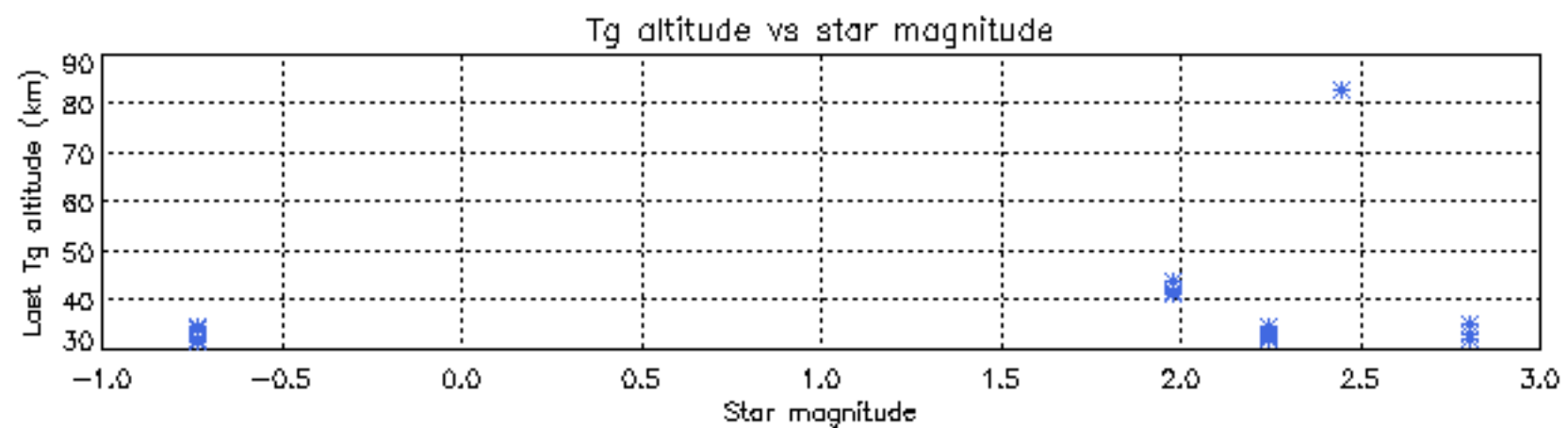
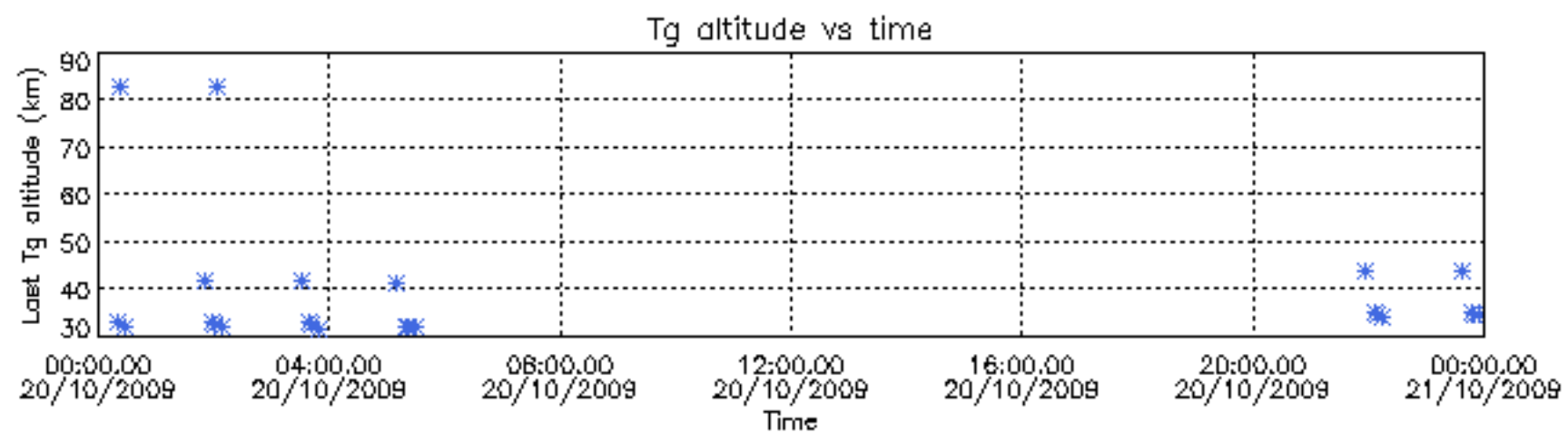
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

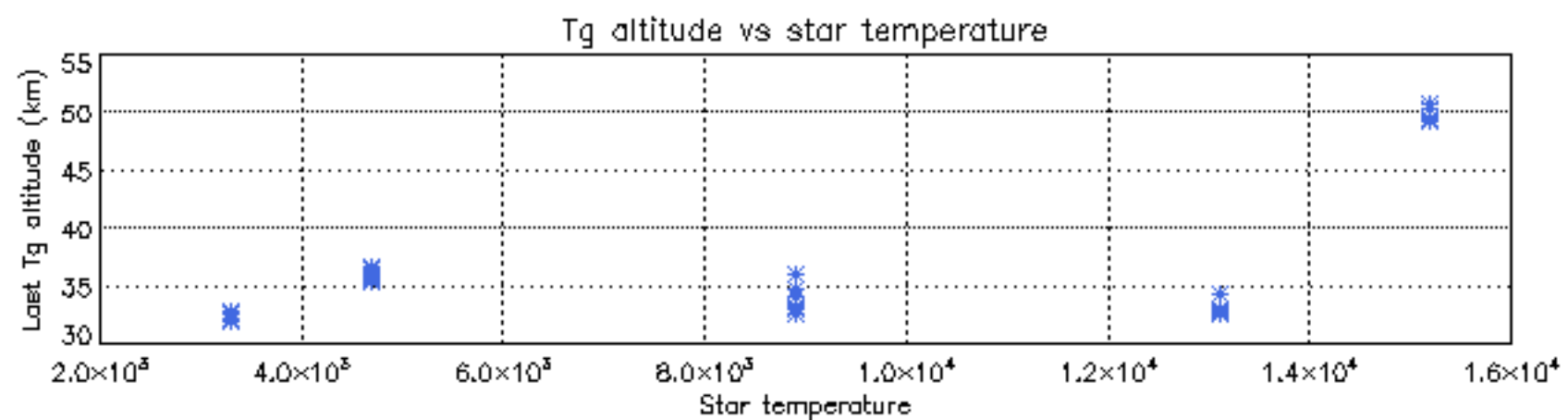
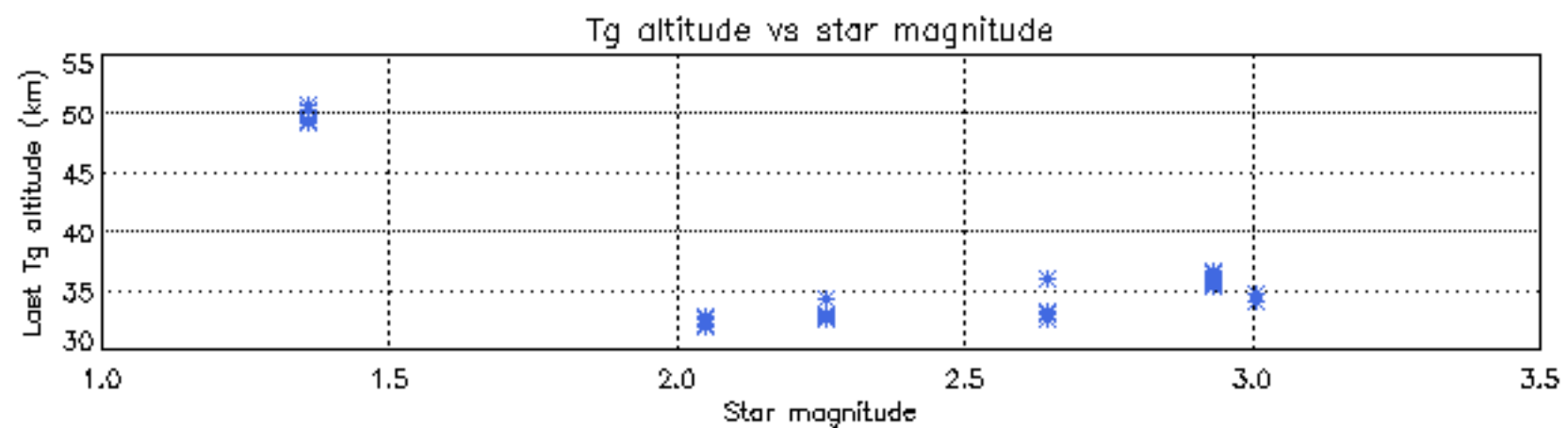
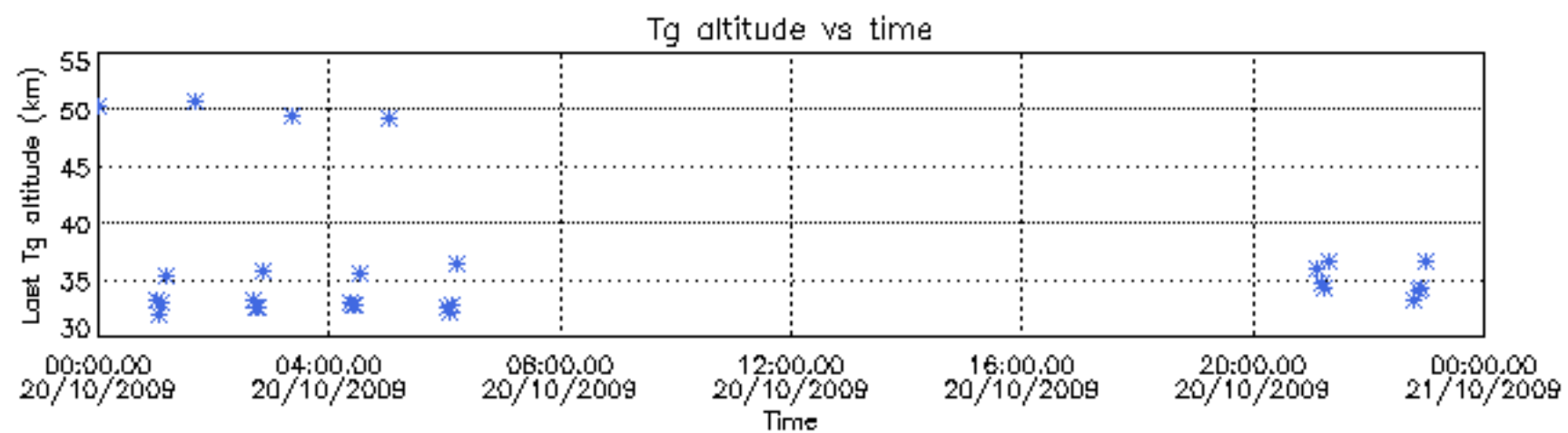


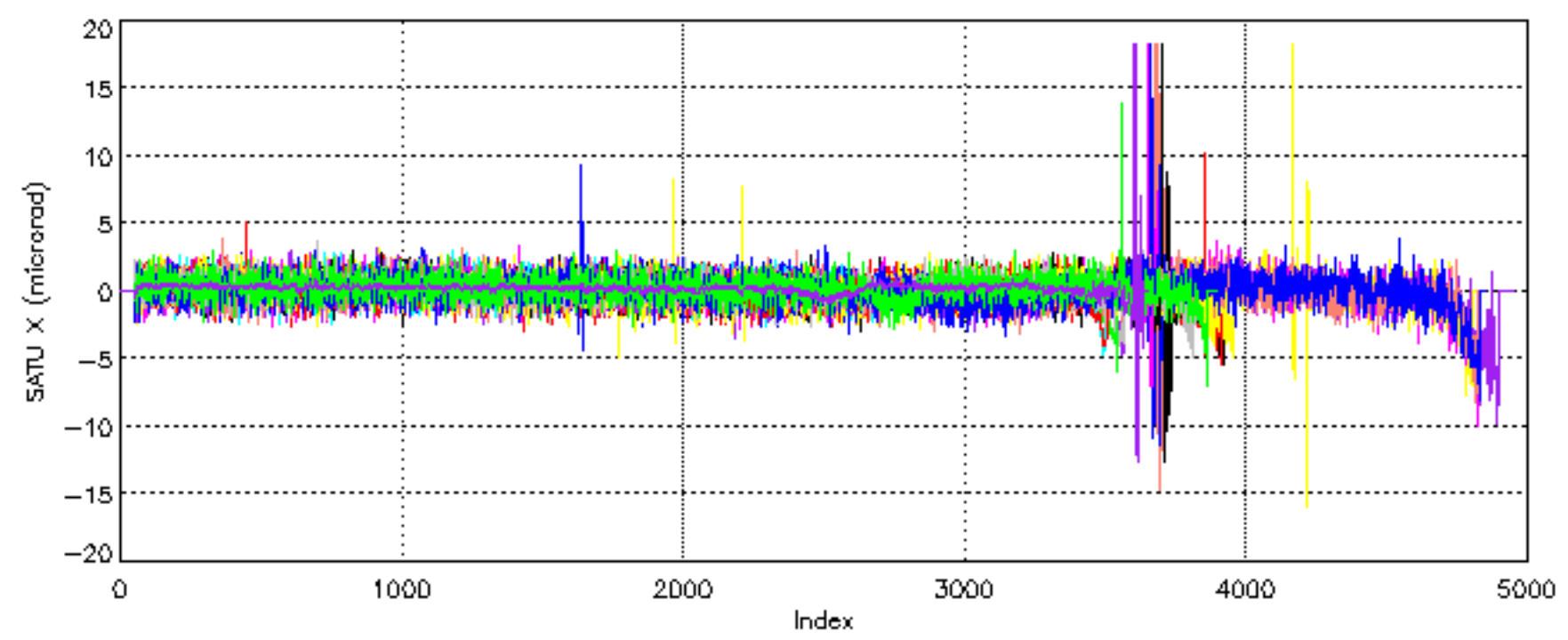
Tangent altitude at which the star is lost

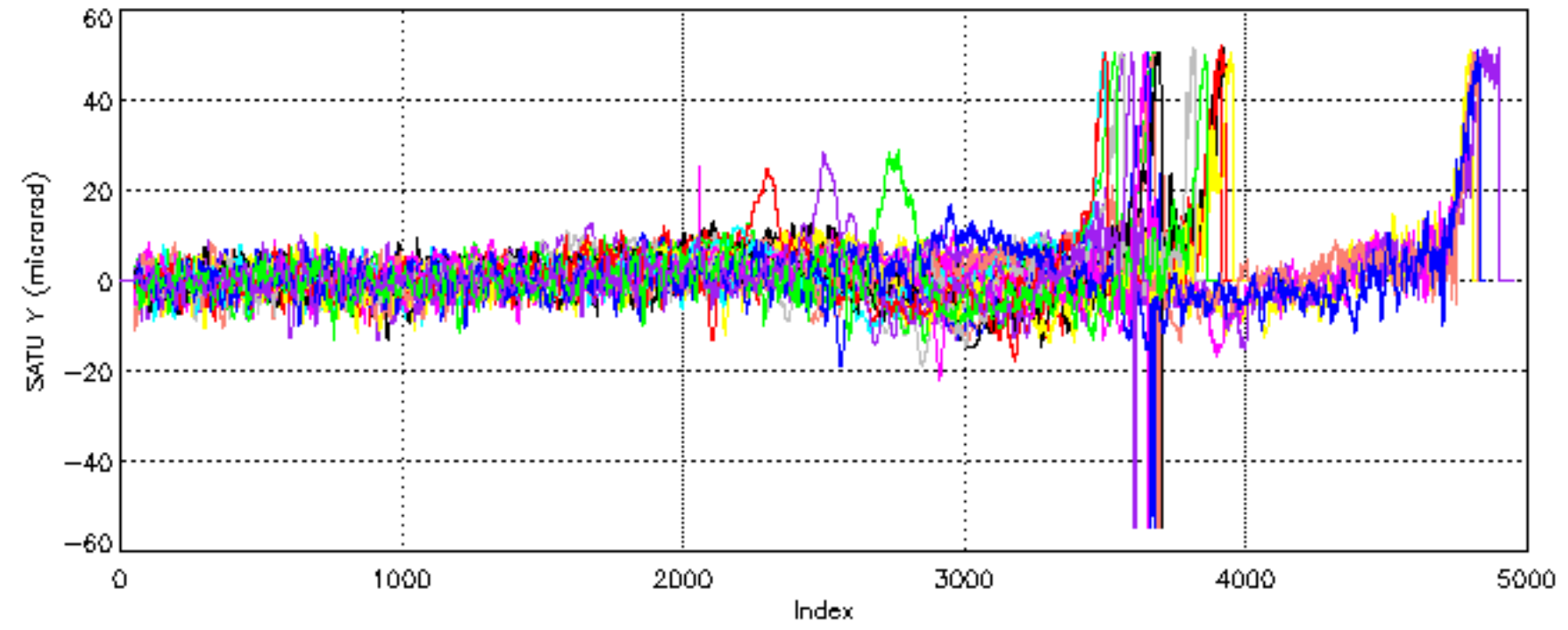




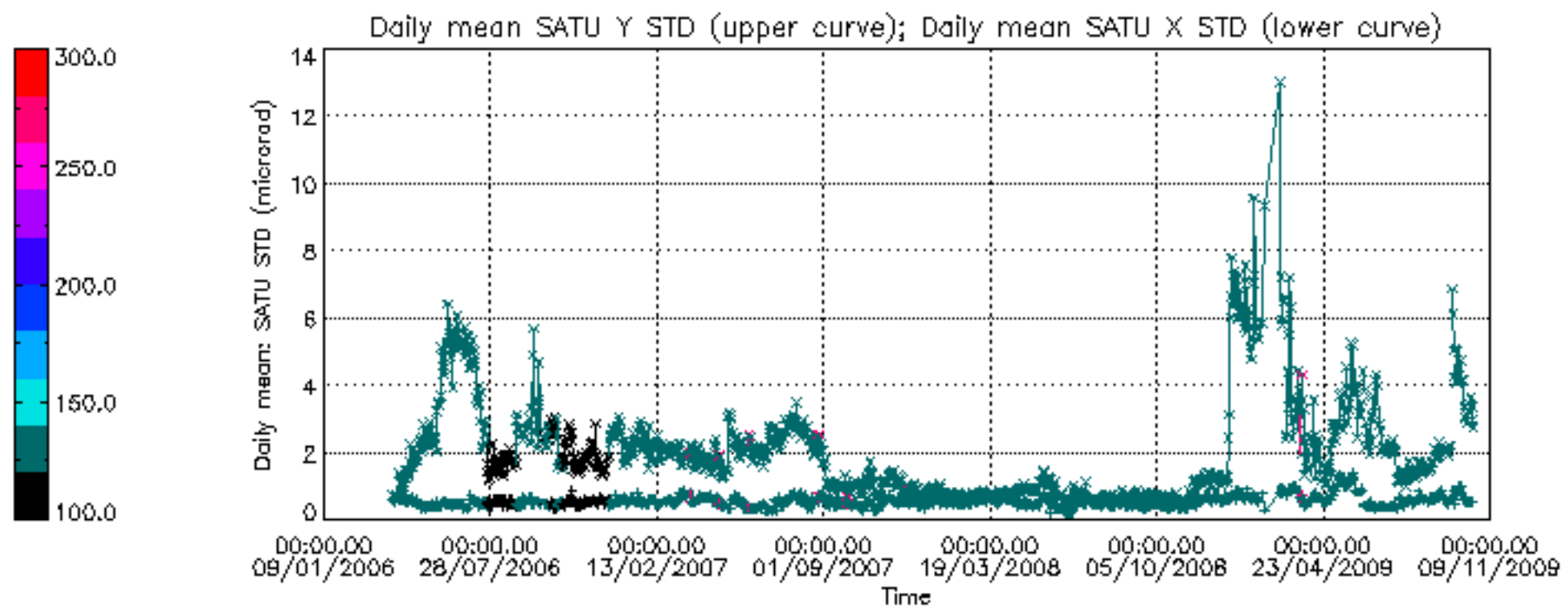
Tangent altitude at which the star is lost











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7; 918.5; 01-OCT-2009 07:15:04; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39668
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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
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6; 4603.1; 01-OCT-2009 11:37:41; Bright; 37.5; 17; 78Bet Gem ; 1.16; 4500;occ; 75; 0;39670
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5; 2942.9; 01-OCT-2009 12:50:36; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39671
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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5; 2942.4; 01-OCT-2009 14:31:12; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39672
6; 3028.5; 01-OCT-2009 14:32:38; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39672
7; 4603.9; 01-OCT-2009 14:58:53; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;39672
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9; 5815.8; 01-OCT-2009 16:59:41; Dark ; 19.0; 88; 31Eta CMA ; 2.45; 20000;occ; 38; 0;39673
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7; 4636.5; 16-OCT-2009 10:26:23; Bright; 29.5; 166; 17Eps Leo ; 2.98; 6000;occ; 59; 0;39884
8; 4833.5; 16-OCT-2009 10:29:40; Bright; 28.0; 22; 32Alp Leo ; 1.36; 15200;occ; 56; 0;39884
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6; 3073.0; 16-OCT-2009 16:42:43; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;39888  
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3; 2693.0; 25-OCT-2009 10:11:15; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40013
4; 6485.7; 25-OCT-2009 11:14:27; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;40013
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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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3; 2692.5; 25-OCT-2009 13:32:26; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 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
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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
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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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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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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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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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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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