

# GOMOS Daily Report 19-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	21OCT2009 04:32:40
Data source version	GOMOS/5.00L03
Start time of products	19OCT2009 00:02:04
Stop time of products	19OCT2009 23:57:09
Store outputs in DB	Yes
Nb of level 1b prods	75
Nb of prods with errors	1

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

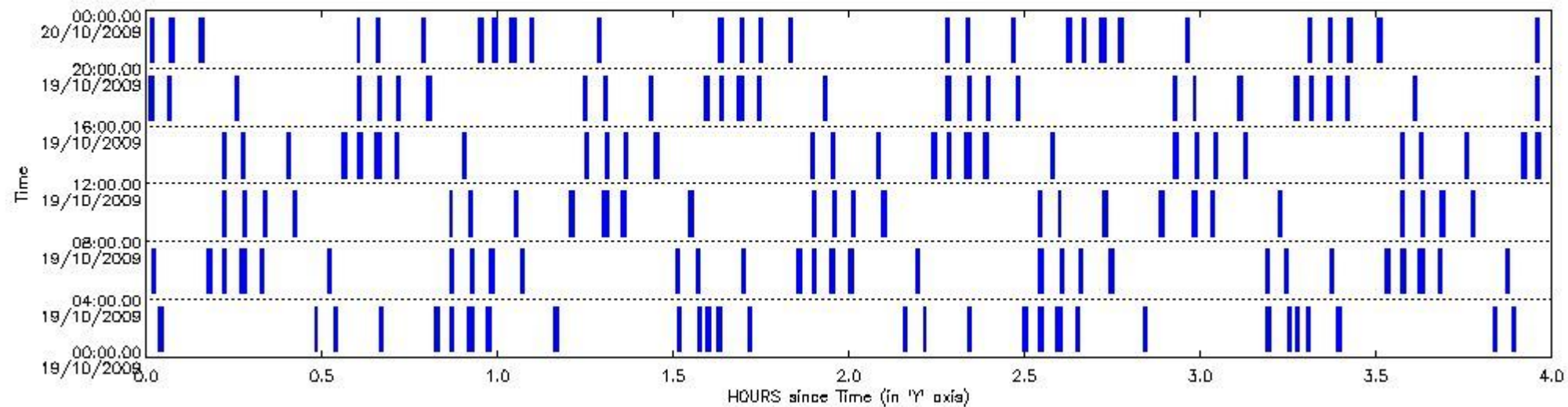
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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.

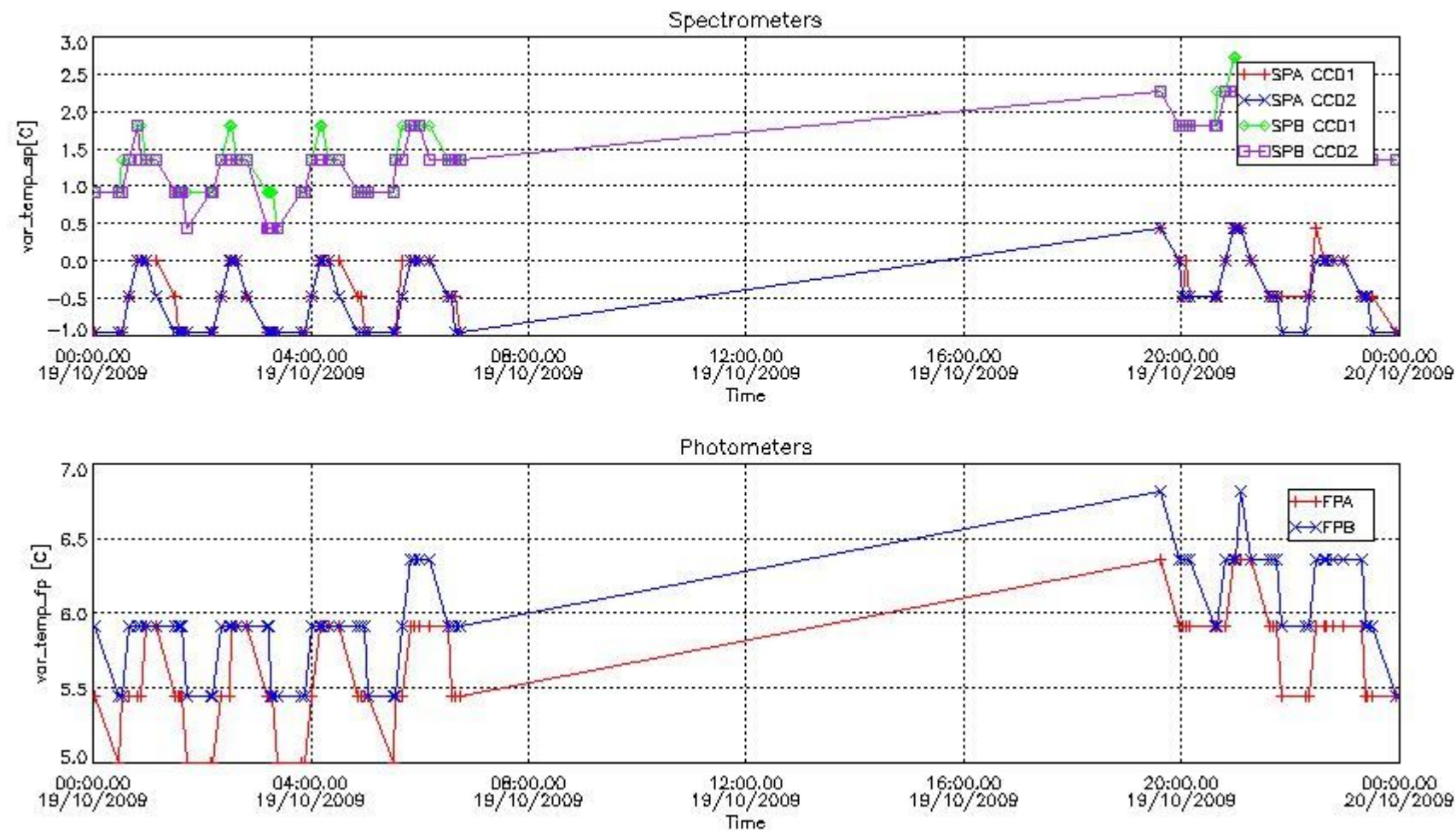
### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091019_000204_000000402083_00288_39921_1339.N1	19-OCT-2009 00:02:04	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	39921	No
2	GOM_TRA_1PNPDE20091019_002842_000000312083_00288_39921_1340.N1	19-OCT-2009 00:28:42	Twilight_stray	30.500	166	17Eps Leo	2.9800	6000.0	61	39921	No
3	GOM_TRA_1PNPDE20091019_003203_000000302083_00288_39921_1341.N1	19-OCT-2009 00:32:03	Bright	29.500	22	32Alp Leo	1.3600	15200.	59	39921	No
4	GOM_TRA_1PNPDE20091019_003944_000000362083_00288_39921_1336.N1	19-OCT-2009 00:39:44	Dark	35.500	48	30Alp Hya	1.9770	4100.0	71	39921	No
5	GOM_TRA_1PNPDE20091019_004907_000000482083_00288_39921_1337.N1	19-OCT-2009 00:49:07	Dark	48.000	132	15Rho Pup	2.8030	6900.0	96	39921	No
6	GOM_TRA_1PNPDE20091019_005147_000000392083_00288_39921_1338.N1	19-OCT-2009 00:51:47	Dark	39.000	70	Zet Pup	2.2460	39000.	78	39921	No
7	GOM_TRA_1PNPDE20091019_005807_000000382083_00289_39922_1339.N1	19-OCT-2009 00:58:07	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39922	No
8	GOM_TRA_1PNPDE20091019_010939_000000352083_00289_39922_1340.N1	19-OCT-2009 01:09:39	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39922	No
9	GOM_TRA_1PNPDE20091019_013039_000000392083_00289_39922_1341.N1	19-OCT-2009 01:30:39	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	39922	No
10	GOM_TRA_1PNPDE20091019_013412_000000352083_00289_39922_1342.N1	19-OCT-2009 01:34:12	Bright	34.500	53	43Bet And	2.0480	3300.0	69	39922	No
11	GOM_TRA_1PNPDE20091019_013534_000000402083_00289_39922_1343.N1	19-OCT-2009 01:35:34	Bright	39.500	173	4Bet Tri	3.0040	8900.0	79	39922	No
12	GOM_TRA_1PNPDE20091019_013729_000000382083_00289_39922_1344.N1	19-OCT-2009 01:37:29	Bright	38.000	73	57Gam1And	2.2600	13100.	76	39922	No

13	GOM_TRA_1PNPDE20091019_014239_000000402083_00289_39922_1345.N1	19-OCT-2009 01:42:39	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	39922	No
14	GOM_TRA_1PNPDE20091019_020919_000000312083_00289_39922_1346.N1	19-OCT-2009 02:09:19	Twilight	30.500	166	17Eps Leo	2.9800	6000.0	61	39922	No
15	GOM_TRA_1PNPDE20091019_021239_000000292083_00289_39922_1347.N1	19-OCT-2009 02:12:39	Twilight	28.500	22	32Alp Leo	1.3600	15200.	57	39922	No
16	GOM_TRA_1PNPDE20091019_022020_000000362083_00289_39922_1345.N1	19-OCT-2009 02:20:20	Dark	35.500	48	30Alp Hya	1.9770	4100.0	71	39922	No
17	GOM_TRA_1PNPDE20091019_022944_000000482083_00289_39922_1346.N1	19-OCT-2009 02:29:44	Dark	48.000	132	15Rho Pup	2.8030	6900.0	96	39922	No
18	GOM_TRA_1PNPDE20091019_023224_000000392083_00289_39922_1347.N1	19-OCT-2009 02:32:24	Dark	39.000	70	Zet Pup	2.2460	39000.	78	39922	No
19	GOM_TRA_1PNPDE20091019_023844_000000382083_00290_39923_1348.N1	19-OCT-2009 02:38:44	Dark	38.000	2	Alp Car	-0.73600	7000.0	76	39923	No
20	GOM_TRA_1PNPDE20091019_025016_000000352083_00290_39923_1349.N1	19-OCT-2009 02:50:16	Straylight	34.500	157	The1Eri	2.9060	9300.0	69	39923	No
21	GOM_TRA_1PNPDE20091019_031115_000000392083_00290_39923_1350.N1	19-OCT-2009 03:11:15	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	39923	No
22	GOM_TRA_1PNPDE20091019_031448_000000342083_00290_39923_1351.N1	19-OCT-2009 03:14:48	Bright	34.000	53	43Bet And	2.0480	3300.0	68	39923	No
23	GOM_TRA_1PNPDE20091019_031609_000000402083_00290_39923_1352.N1	19-OCT-2009 03:16:09	Bright	39.500	173	4Bet Tri	3.0040	8900.0	79	39923	No
24	GOM_TRA_1PNPDE20091019_031804_000000382083_00290_39923_1353.N1	19-OCT-2009 03:18:04	Bright	38.000	73	57Gam1And	2.2600	13100.	76	39923	No
25	GOM_TRA_1PNPDE20091019_032315_000000392083_00290_39923_1354.N1	19-OCT-2009 03:23:15	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	39923	No
26	GOM_TRA_1PNPDE20091019_034955_000000312083_00290_39923_1350.N1	19-OCT-2009 03:49:55	Twilight	30.500	166	17Eps Leo	2.9800	6000.0	61	39923	No
27	GOM_TRA_1PNPDE20091019_035316_000000292083_00290_39923_1351.N1	19-OCT-2009 03:53:16	Bright	29.000	22	32Alp Leo	1.3600	15200.	58	39923	No
28	GOM_TRA_1PNPDE20091019_040057_000000352083_00290_39923_1352.N1	19-OCT-2009 04:00:57	Dark	35.000	48	30Alp Hya	1.9770	4100.0	70	39923	No
29	GOM_TRA_1PNPDE20091019_041022_000000482083_00290_39923_1353.N1	19-OCT-2009 04:10:22	Dark	48.000	132	15Rho Pup	2.8030	6900.0	96	39923	No
30	GOM_TRA_1PNPDE20091019_041301_000000402083_00290_39923_1354.N1	19-OCT-2009 04:13:01	Dark	39.500	70	Zet Pup	2.2460	39000.	79	39923	No
31	GOM_TRA_1PNPDE20091019_041921_000000382083_00291_39924_1355.N1	19-OCT-2009 04:19:21	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39924	No
32	GOM_TRA_1PNPDE20091019_043052_000000352083_00291_39924_1356.N1	19-OCT-2009 04:30:52	Straylight	34.500	157	The1Eri	2.9060	9300.0	69	39924	No
33	GOM_TRA_1PNPDE20091019_045150_000000392083_00291_39924_1357.N1	19-OCT-2009 04:51:50	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	39924	No
34	GOM_TRA_1PNPDE20091019_045524_000000342083_00291_39924_1358.N1	19-OCT-2009 04:55:24	Bright	34.000	53	43Bet And	2.0480	3300.0	68	39924	No
35	GOM_TRA_1PNPDE20091019_045840_000000382083_00291_39924_1359.N1	19-OCT-2009 04:58:40	Bright	38.000	73	57Gam1And	2.2600	13100.	76	39924	No
36	GOM_TRA_1PNPDE20091019_050350_000000392083_00291_39924_1360.N1	19-OCT-2009 05:03:50	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	39924	No
37	GOM_TRA_1PNPDE20091019_053031_000000312083_00291_39924_1359.N1	19-OCT-2009 05:30:31	Twilight	30.500	166	17Eps Leo	2.9800	6000.0	61	39924	No
38	GOM_TRA_1PNPDE20091019_053352_000000292083_00291_39924_1360.N1	19-OCT-2009 05:33:52	Bright	29.000	22	32Alp Leo	1.3600	15200.	58	39924	No
39	GOM_TRA_1PNPDE20091019_054134_000000362083_00291_39924_1361.N1	19-OCT-2009 05:41:34	Dark	35.500	48	30Alp Hya	1.9770	4100.0	71	39924	No
40	GOM_TRA_1PNPDE20091019_055059_000000482083_00291_39924_1362.N1	19-OCT-2009 05:50:59	Dark	48.000	132	15Rho Pup	2.8030	6900.0	96	39924	No
41	GOM_TRA_1PNPDE20091019_055338_000000402083_00291_39924_1363.N1	19-OCT-2009 05:53:38	Dark	39.500	70	Zet Pup	2.2460	39000.	79	39924	No
42	GOM_TRA_1PNPDE20091019_055958_000000382083_00292_39925_1364.N1	19-OCT-2009 05:59:58	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39925	No
43	GOM_TRA_1PNPDE20091019_061128_000000352083_00292_39925_1365.N1	19-OCT-2009 06:11:28	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39925	No
44	GOM_TRA_1PNPDE20091019_063226_000000392083_00292_39925_1366.N1	19-OCT-2009 06:32:26	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	39925	No
45	GOM_TRA_1PNPDE20091019_063600_000000342083_00292_39925_1367.N1	19-OCT-2009 06:36:00	Bright	34.000	53	43Bet And	2.0480	3300.0	68	39925	No
46	GOM_TRA_1PNPDE20091019_063915_000000382083_00292_39925_1368.N1	19-OCT-2009 06:39:15	Bright	38.000	73	57Gam1And	2.2600	13100.	76	39925	No
47	GOM_TRA_1PNPDE20091019_064425_000000392083_00292_39925_1369.N1	19-OCT-2009 06:44:25	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	39925	No
48	GOM_TRA_1PNPDE20091019_193620_000000352083_00300_39933_1397.N1	19-OCT-2009 19:36:20	Straylight	34.500	157	The1Eri	2.9060	9300.0	69	39933	No
49	GOM_TRA_1PNPDE20091019_195710_000000392083_00300_39933_1398.N1	19-OCT-2009 19:57:10	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	39933	No
50	GOM_TRA_1PNPDE20091019_200045_000000342083_00300_39933_1399.N1	19-OCT-2009 20:00:45	Bright	34.000	53	43Bet And	2.0480	3300.0	68	39933	No
51	GOM_TRA_1PNPDE20091019_200358_000000382083_00300_39933_1400.N1	19-OCT-2009 20:03:58	Bright	37.500	73	57Gam1And	2.2600	13100.	75	39933	No
52	GOM_TRA_1PNPDE20091019_200907_000000402083_00300_39933_1401.N1	19-OCT-2009 20:09:07	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	39933	No
53	GOM_TRA_1PNPDE20091019_203557_000000312083_00300_39933_1402.N1	19-OCT-2009 20:35:57	Twilight	30.500	166	17Eps Leo	2.9800	6000.0	61	39933	No
54	GOM_TRA_1PNPDE20091019_203919_000000302083_00300_39933_1403.N1	19-OCT-2009 20:39:19	Bright	29.500	22	32Alp Leo	1.3600	15200.	59	39933	No
55	GOM_TRA_1PNPDE20091019_204705_000000362083_00300_39933_1403.N1	19-OCT-2009 20:47:05	Dark	36.000	48	30Alp Hya	1.9770	4100.0	72	39933	No
56	GOM_TRA_1PNPDE20091019_205636_000000492083_00300_39933_1404.N1	19-OCT-2009 20:56:36	Dark	48.500	132	15Rho Pup	2.8030	6900.0	97	39933	No
57	GOM_TRA_1PNPDE20091019_205910_000000402083_00301_39934_1405.N1	19-OCT-2009 20:59:10	Dark	39.500	70	Zet Pup	2.2460	39000.	79	39934	No
58	GOM_TRA_1PNPDE20091019_210528_000000382083_00301_39934_1406.N1	19-OCT-2009 21:05:28	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39934	No
59	GOM_TRA_1PNPDE20091019_211656_000000352083_00301_39934_1407.N1	19-OCT-2009 21:16:56	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39934	No
60	GOM_TRA_1PNPDE20091019_213746_000000382083_00301_39934_1408.N1	19-OCT-2009 21:37:46	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	39934	No
61	GOM_TRA_1PNPDE20091019_214121_000000342083_00301_39934_1409.N1	19-OCT-2009 21:41:21	Bright	34.000	53	43Bet And	2.0480	3300.0	68	39934	No
62	GOM_TRA_1PNPDE20091019_214434_000000382083_00301_39934_1410.N1	19-OCT-2009 21:44:34	Bright	37.500	73	57Gam1And	2.2600	13100.	75	39934	No
63	GOM_TRA_1PNPDE20091019_214942_000000402083_00301_39934_1411.N1	19-OCT-2009 21:49:42	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	39934	No
64	GOM_TRA_1PNPDE20091019_221633_000000312083_00301_39934_1412.N1	19-OCT-2009 22:16:33	Twilight	30.500	166	17Eps Leo	2.9800	6000.0	61	39934	No
65	GOM_TRA_1PNPDE20091019_221955_000000302083_00301_39934_1413.N1	19-OCT-2009 22:19:55	Bright	29.500	22	32Alp Leo	1.3600	15200.	59	39934	No
66	GOM_TRA_1PNPDE20091019_222741_000000362083_00301_39934_1409.N1	19-OCT-2009 22:27:41	Dark	35.500	48	30Alp Hya	1.9770	4100.0	71	39934	Yes
67	GOM_TRA_1PNPDE20091019_223713_000000492083_00301_39934_1410.N1	19-OCT-2009 22:37:13	Dark	48.500	132	15Rho Pup	2.8030	6900.0	97	39934	No
68	GOM_TRA_1PNPDE20091019_223947_000000402083_00302_39935_1411.N1	19-OCT-2009 22:39:47	Dark	39.500	70	Zet Pup	2.2460	39000.	79	39935	No
69	GOM_TRA_1PNPDE20091019_224605_000000382083_00302_39935_1412.N1	19-OCT-2009 22:46:05	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39935	No
70	GOM_TRA_1PNPDE20091019_225732_000000352083_00302_39935_1413.N1	19-OCT-2009 22:57:32	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39935	No
71	GOM_TRA_1PNPDE20091019_231821_000000382083_00302_39935_1414.N1	19-OCT-2009 23:18:21	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	39935	No

72	GOM_TRA_1PNPDE20091019_232156_000000342083_00302_39935_1415.N1	19-OCT-2009 23:21:56	Bright	34.000	53	43Bet And	2.0480	3300.0	68	39935	No
73	GOM_TRA_1PNPDE20091019_232509_000000382083_00302_39935_1416.N1	19-OCT-2009 23:25:09	Bright	38.000	73	57Gam1And	2.2600	13100.	76	39935	No
74	GOM_TRA_1PNPDE20091019_233017_000000402083_00302_39935_1417.N1	19-OCT-2009 23:30:17	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	39935	No
75	GOM_TRA_1PNPDE20091019_235709_000000312083_00302_39935_1418.N1	19-OCT-2009 23:57:09	Twilight	30.500	166	17Eps Leo	2.9800	6000.0	61	39935	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).

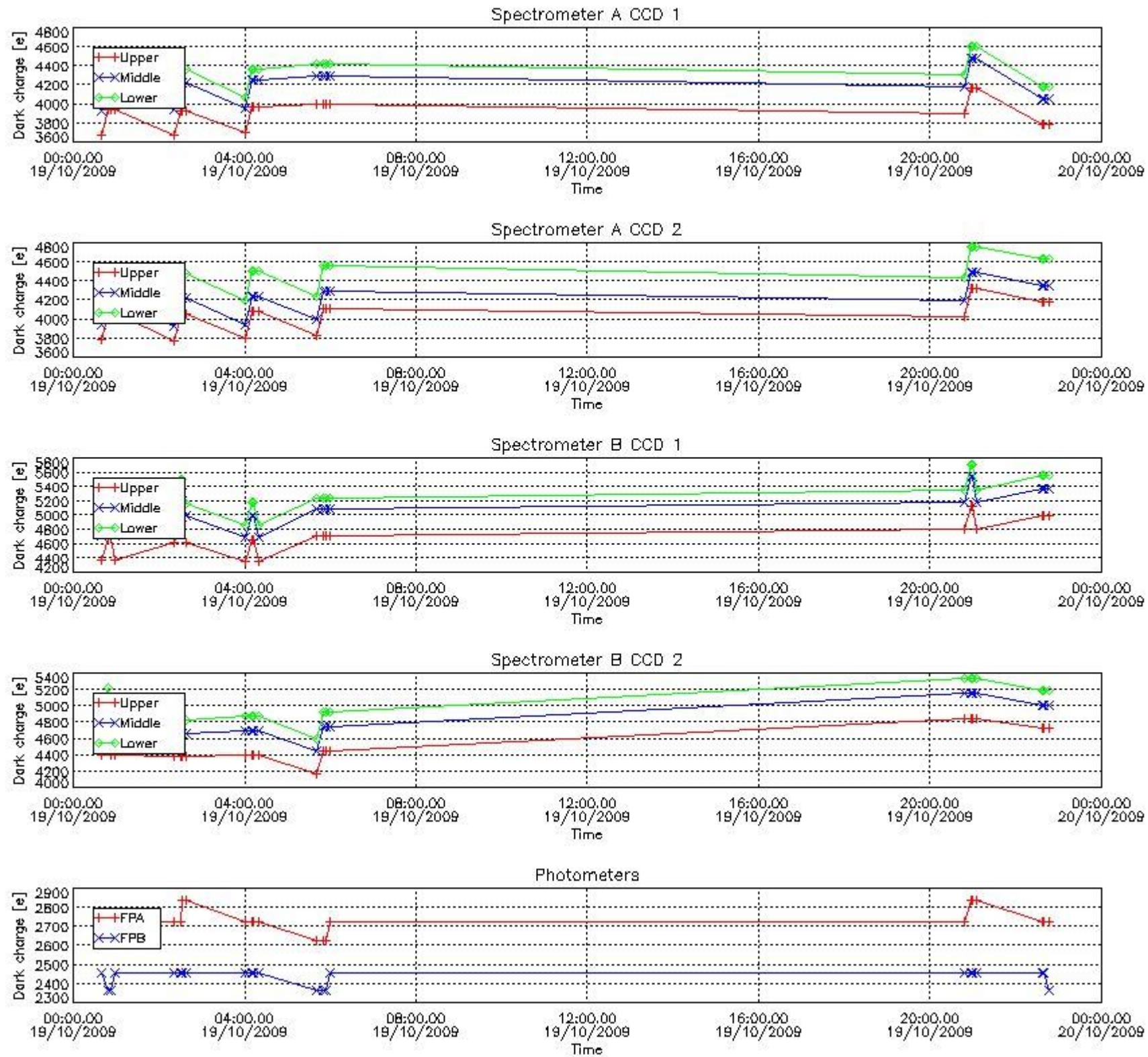
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20091019_193620_000000352083_00300_39933_1397.N1	DC map used
GOM_TRA_1PNPDE20091019_195710_000000392083_00300_39933_1398.N1	DC map used
GOM_TRA_1PNPDE20091019_200045_000000342083_00300_39933_1399.N1	DC map used
GOM_TRA_1PNPDE20091019_200358_000000382083_00300_39933_1400.N1	DC map used
GOM_TRA_1PNPDE20091019_200907_000000402083_00300_39933_1401.N1	DC map used
GOM_TRA_1PNPDE20091019_203557_000000312083_00300_39933_1402.N1	DC map used



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



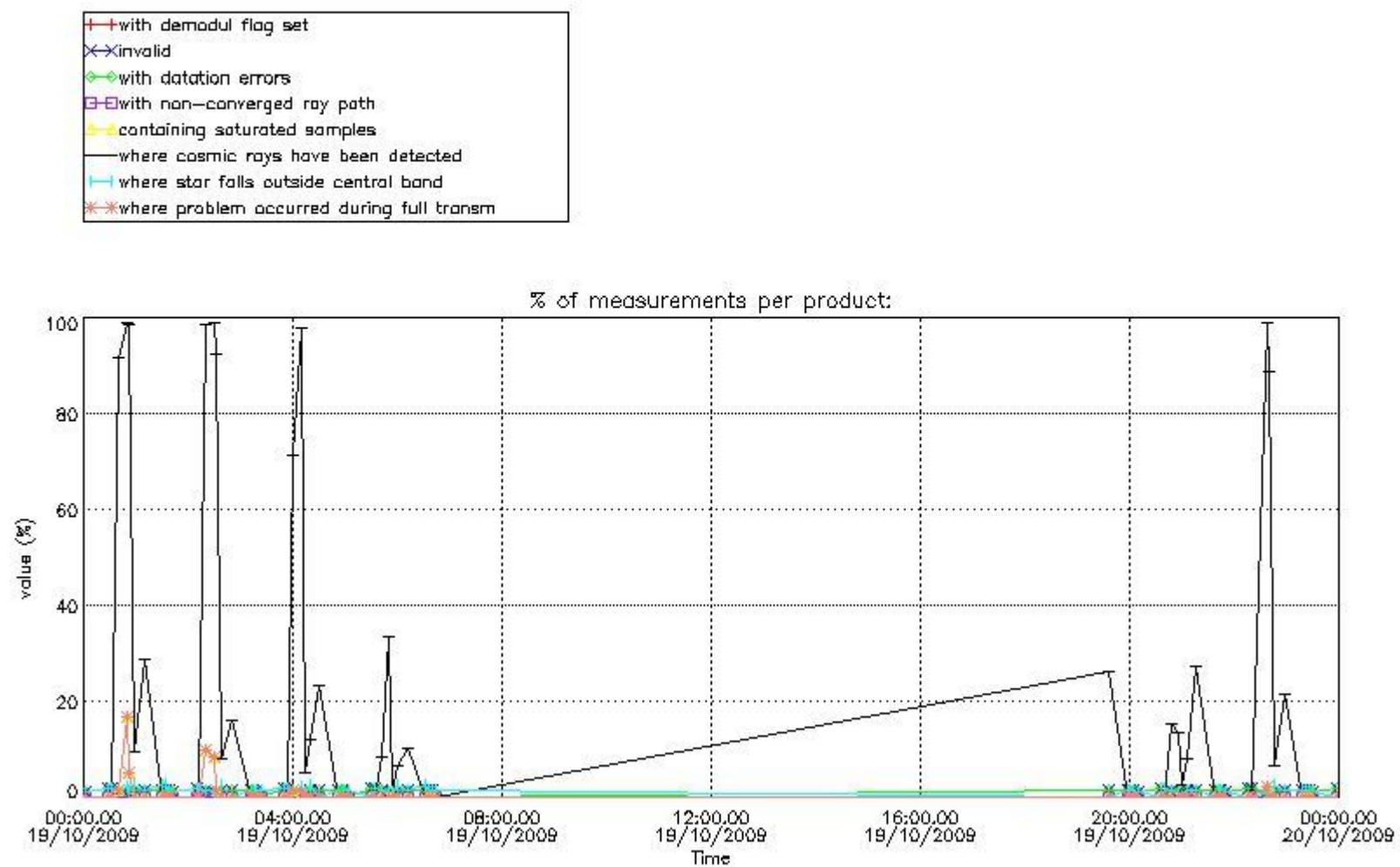
#### 5. Demodulation flag and quality information monitoring

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:

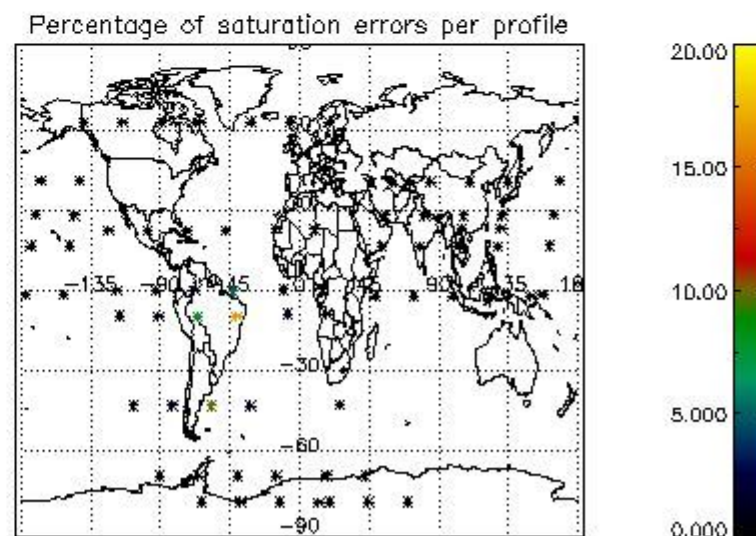
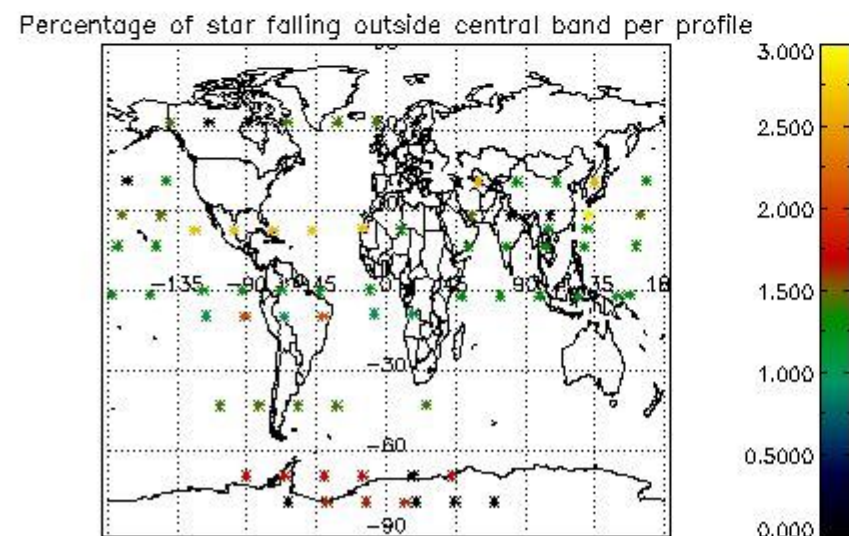
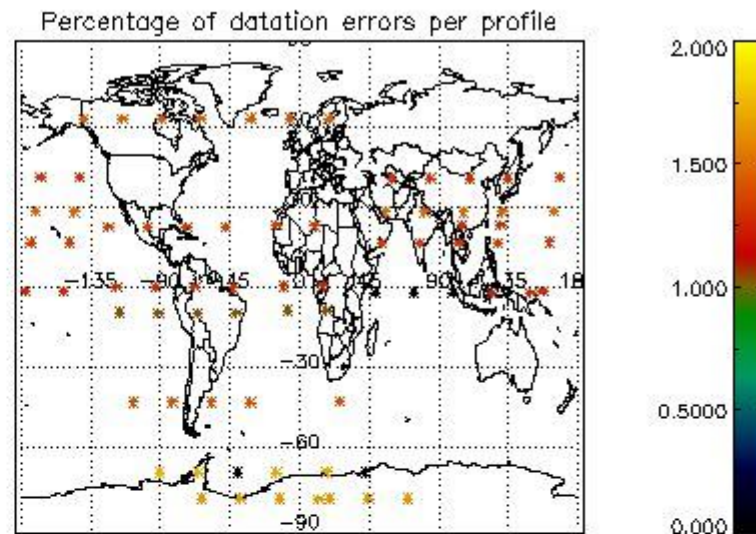
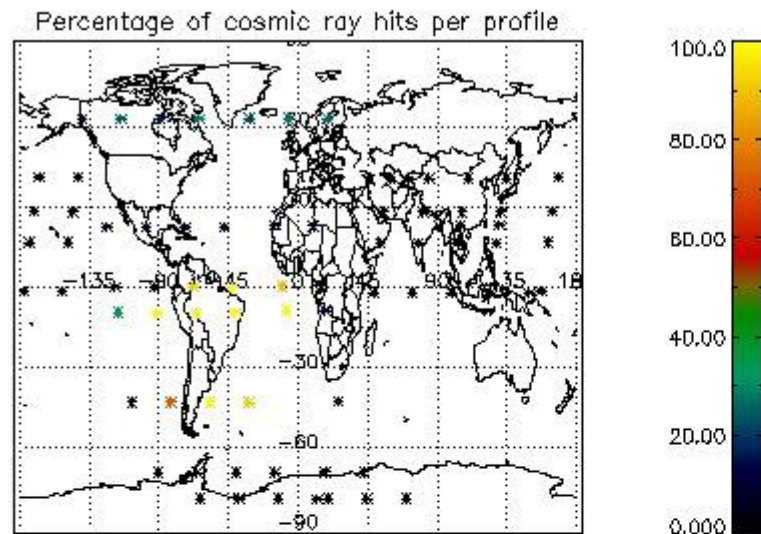
At least one measurement with demodulation flag set:	28.3784 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





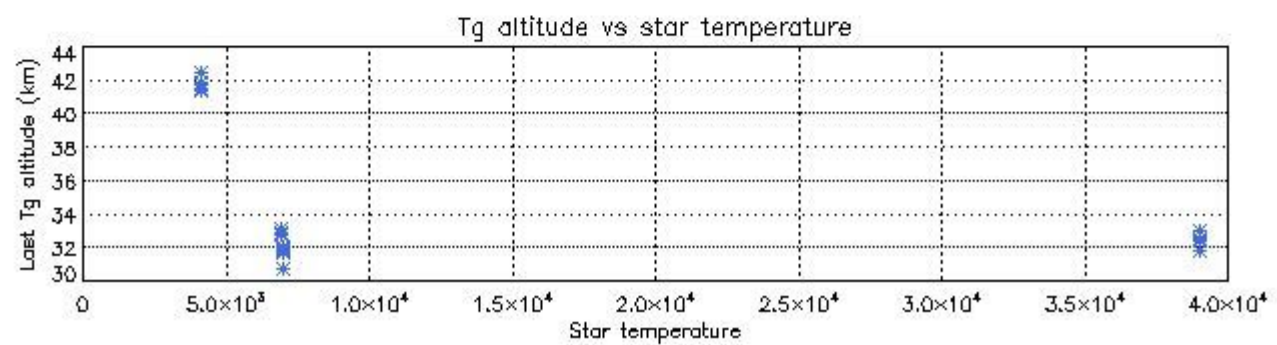
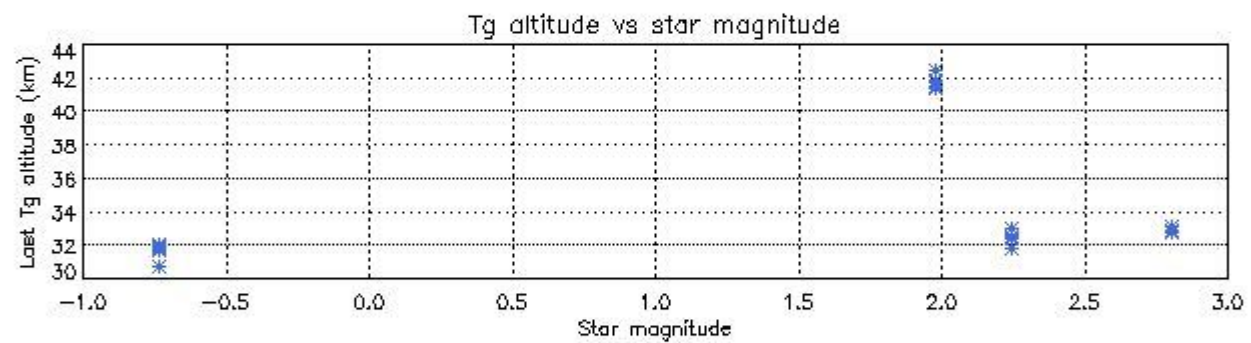
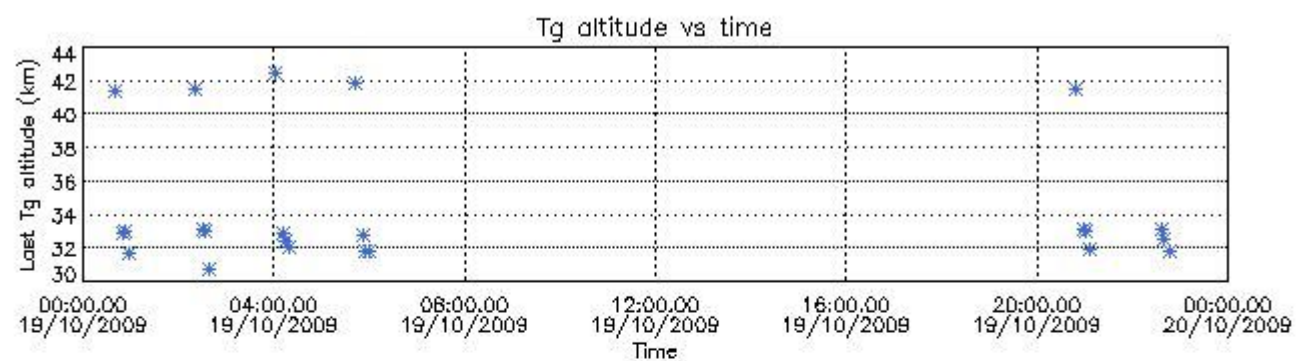
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	34.446	35.549	NaN
St. deviation:	3.9692	5.9112	NaN
Maximum:	42.451	50.152	NaN
Minimum:	30.688	31.920	NaN
Number of data:	23.000	36.000	NaN

### 6.2 Plot for DARK limb products

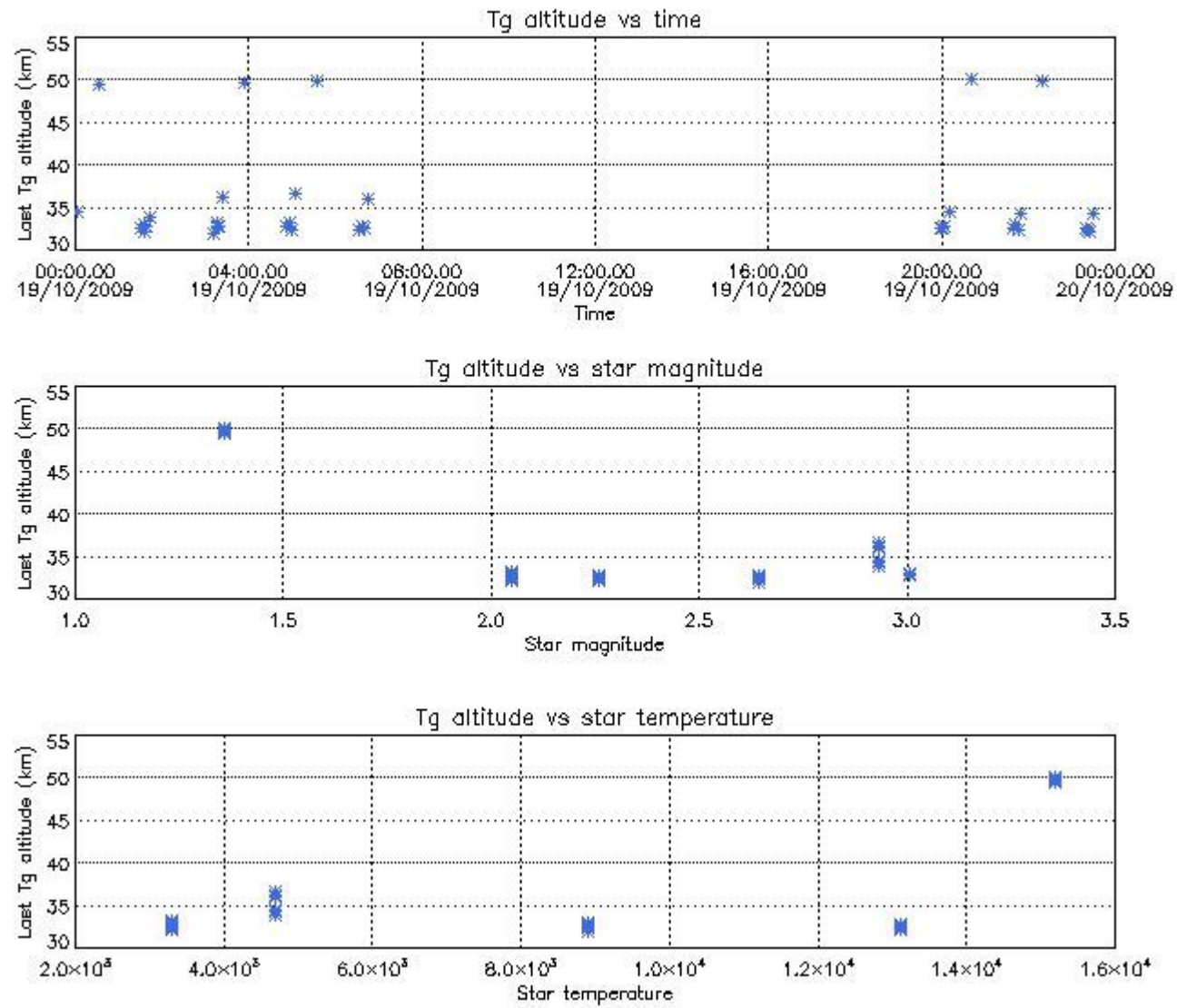
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

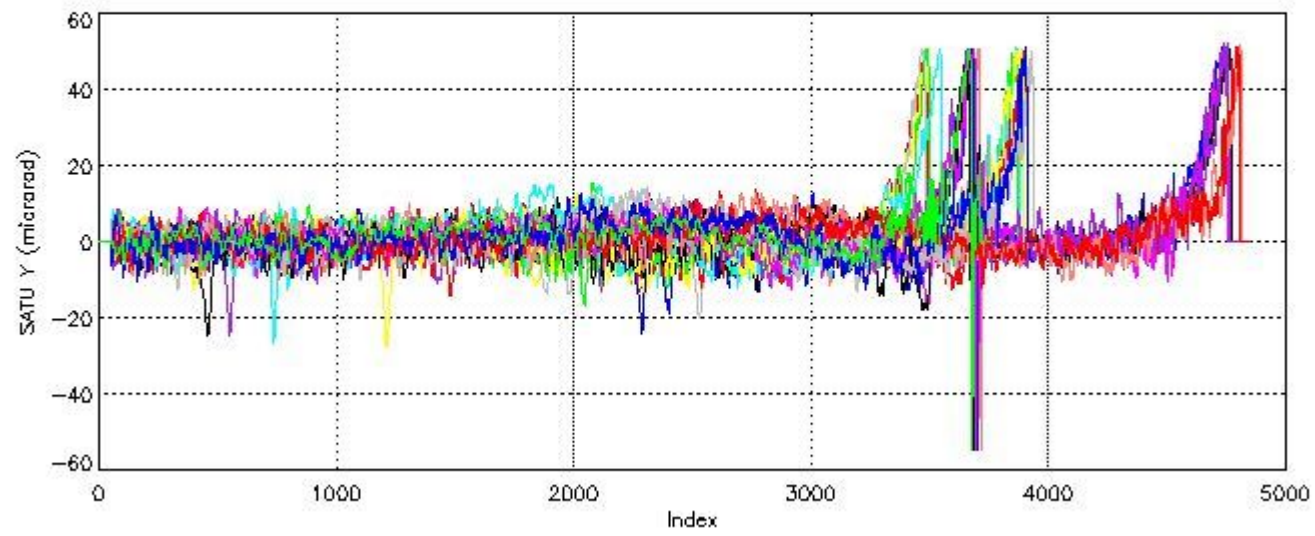
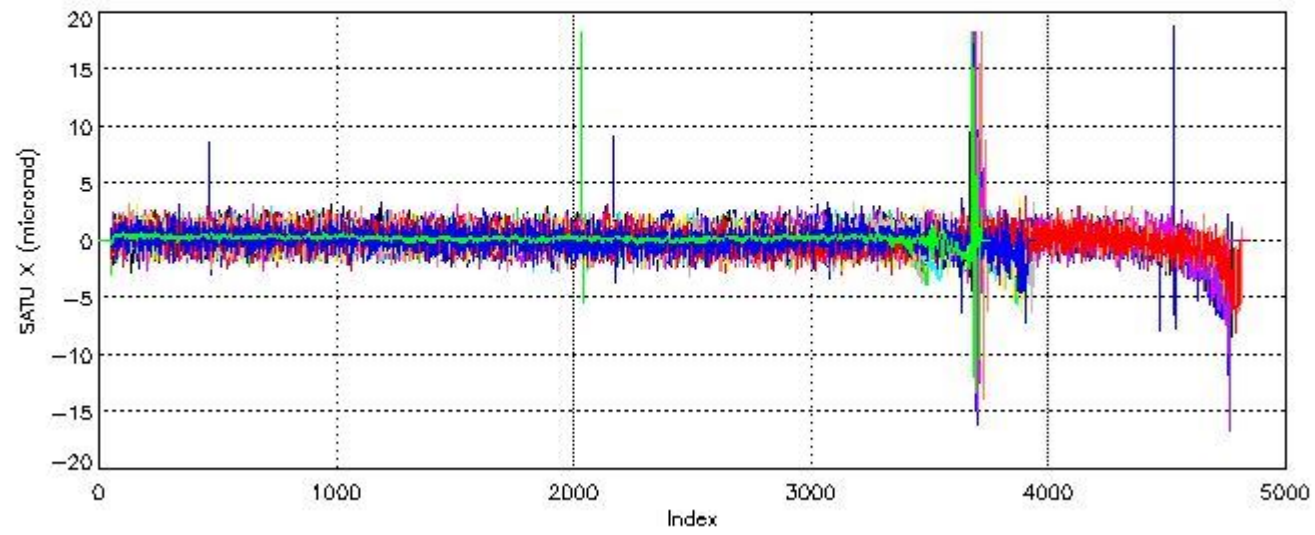


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.26494	-0.19062	0.27381	-0.25239
St. deviation:	0.52036	2.9401	0.72179	3.0003
Maximum:	8.6000	10.000	5.4000	12.200
Minimum:	-2.9000	-26.700	-5.1000	-14.900

Number of data:	26800.	26800.	37950.	37950.
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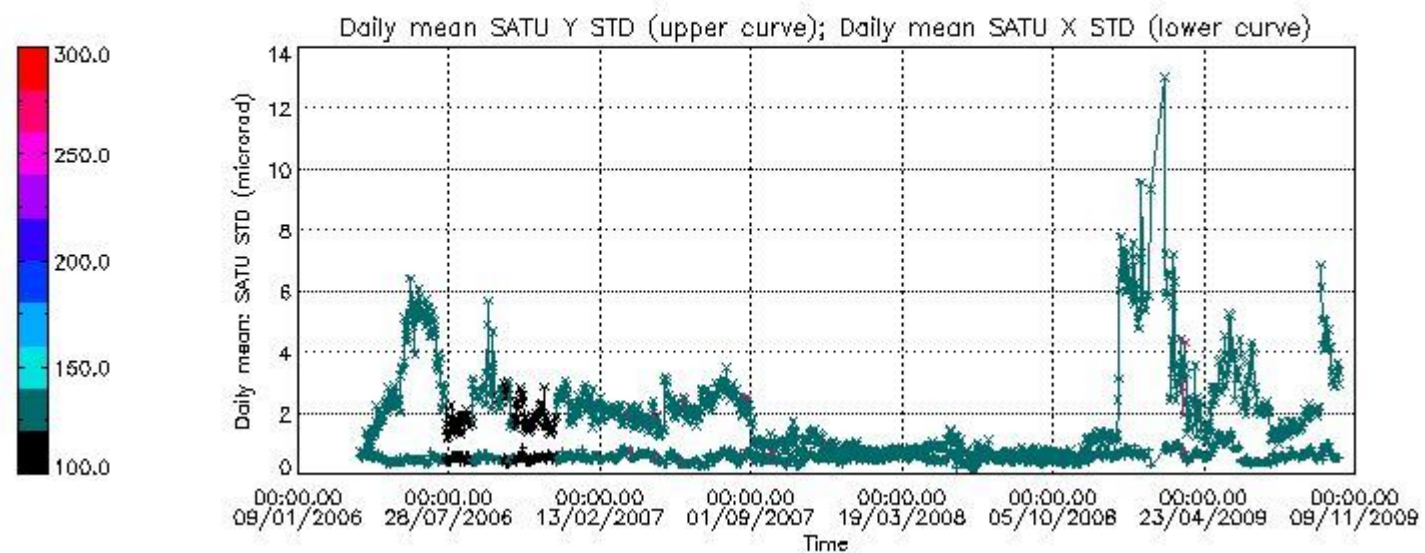
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

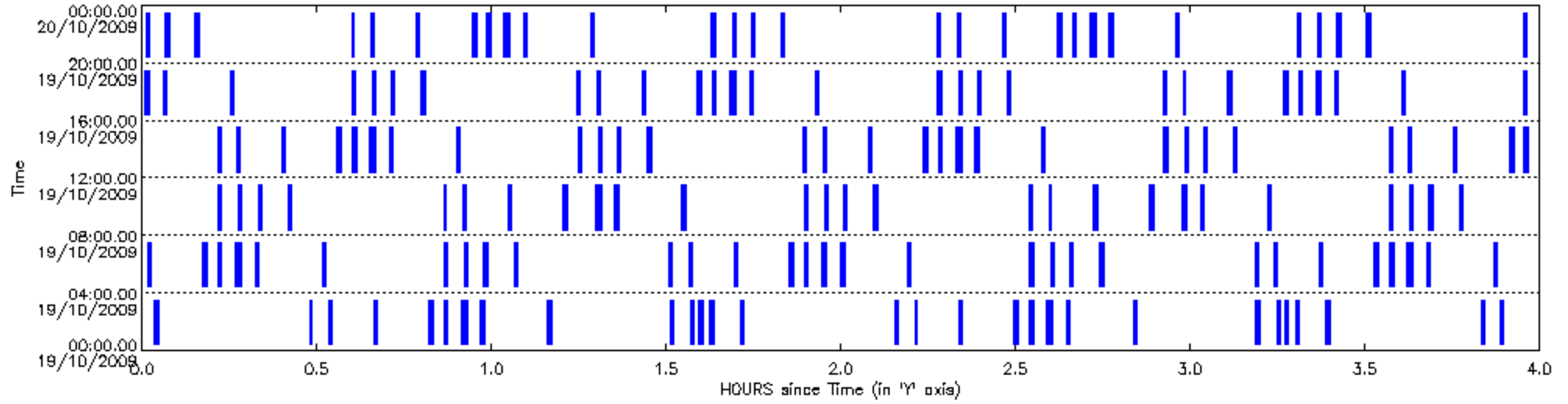


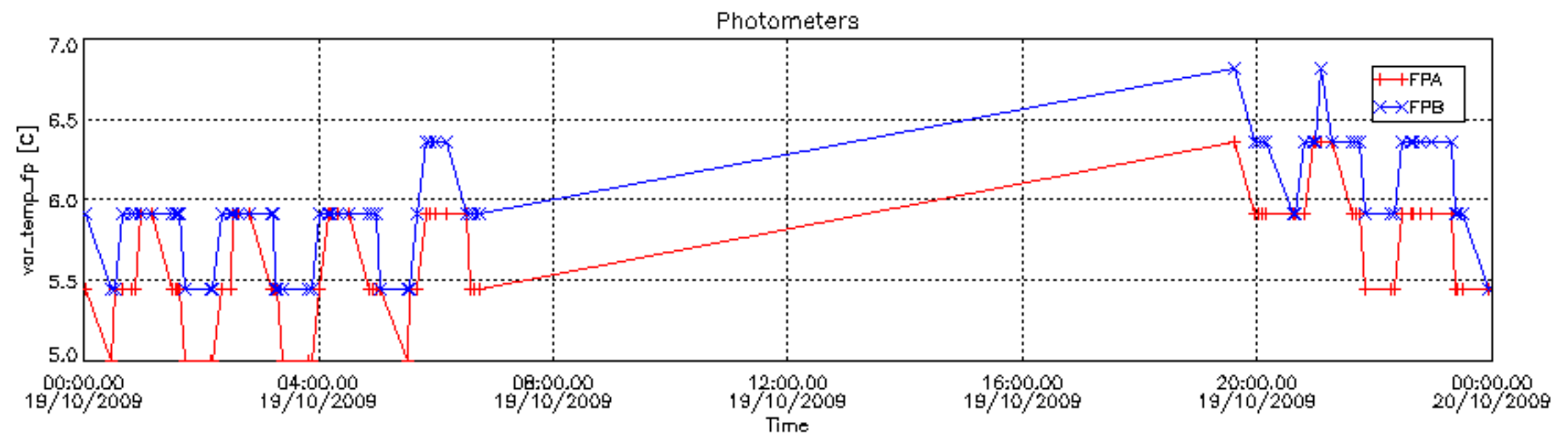
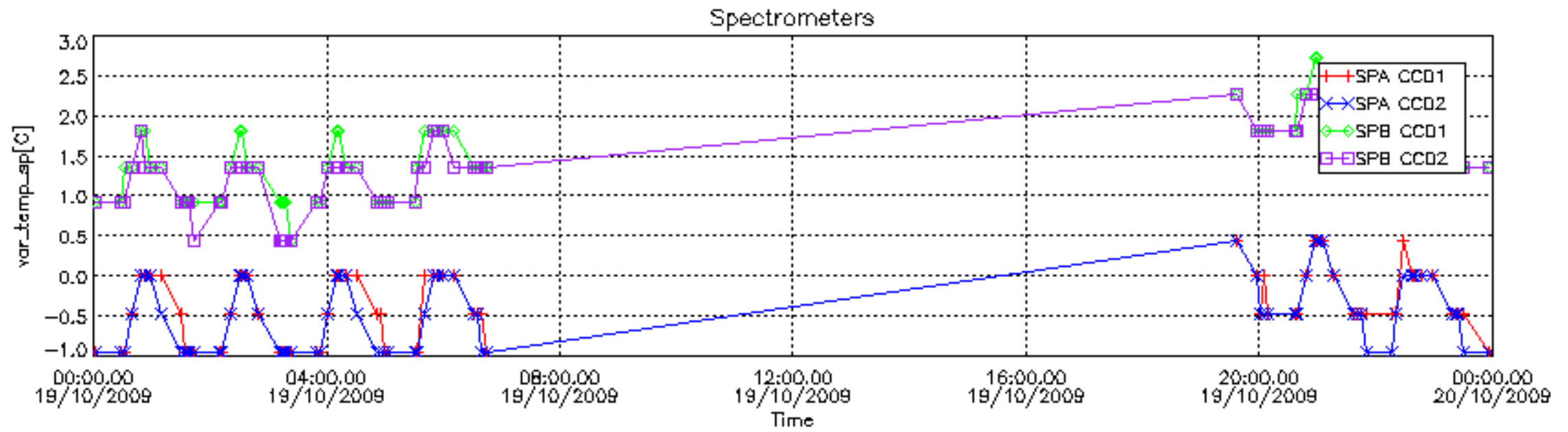
### 8. Auxiliary Data Files used for the production reported in section 2.4

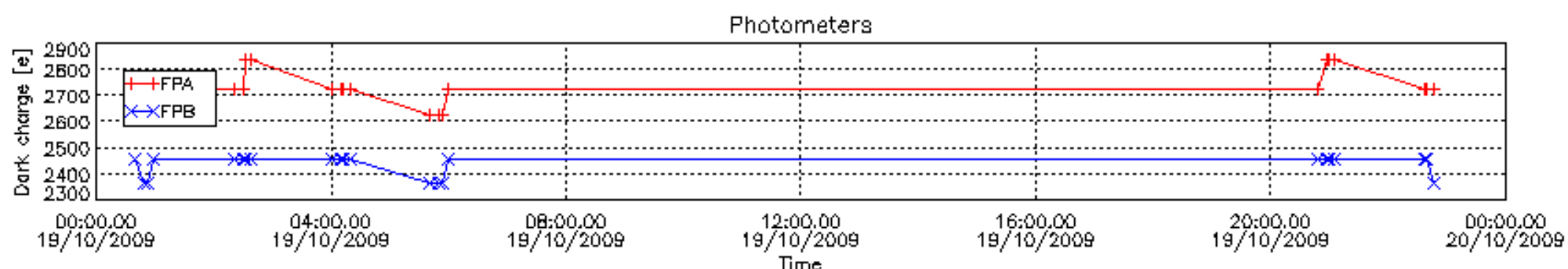
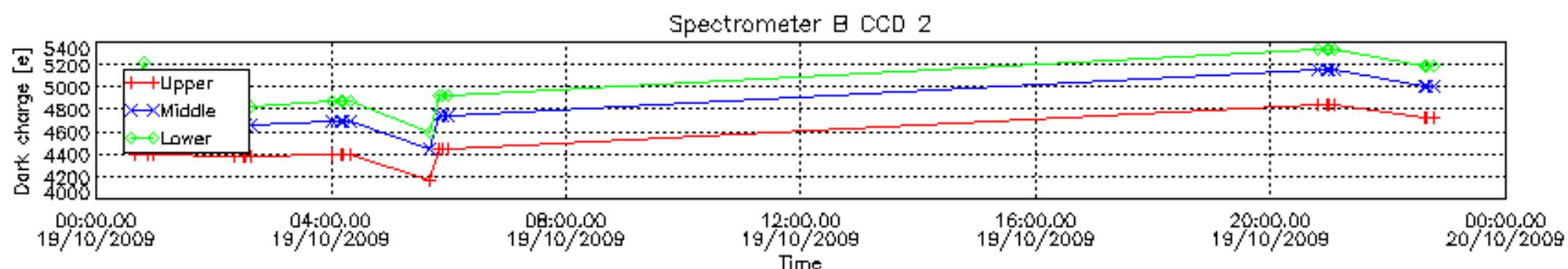
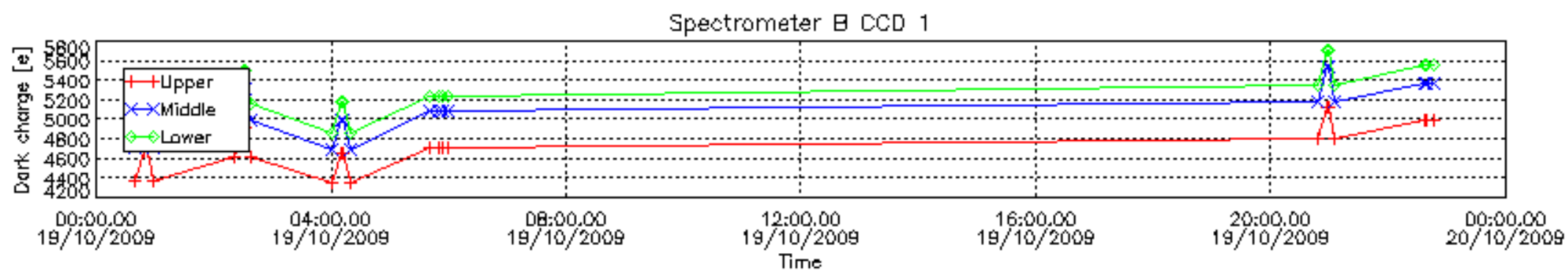
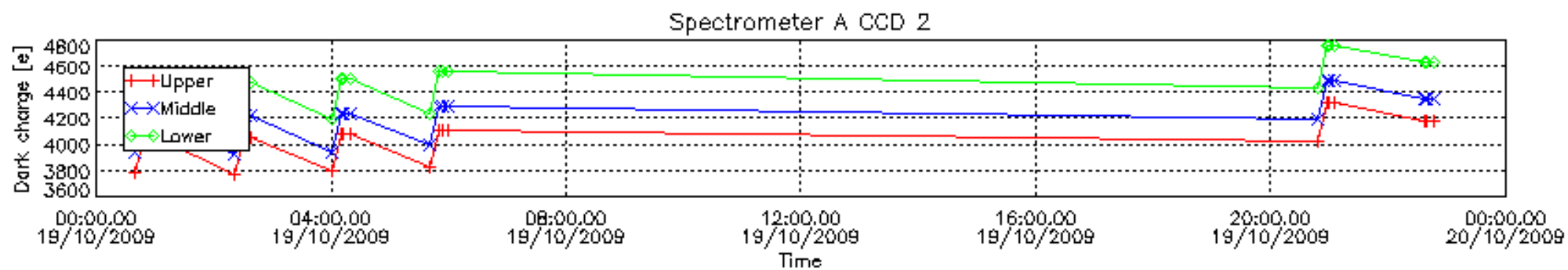
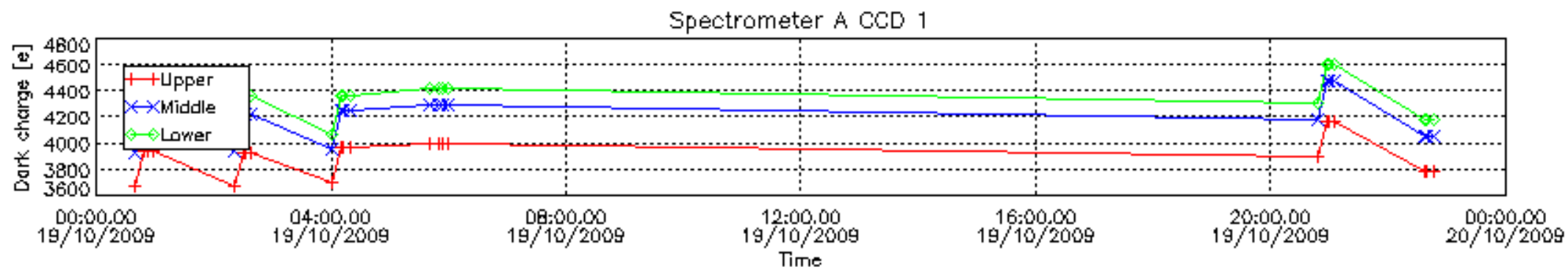
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-OCT-2009 00:02:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091013_072825_20091011_000000_20100101_000000	1	19-OCT-2009 00:02:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-OCT-2009 00:02:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-OCT-2009 00:02:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-OCT-2009 00:02:04
ECMWF_FILE	AUX_ECF_AXNECM20091018_062113_20091018_210000_20091019_090000	1	19-OCT-2009 00:02:04
ECMWF_FILE	AUX_ECF_AXNECM20091018_190110_20091019_030000_20091019_150000	26	19-OCT-2009 03:49:55
ECMWF_FILE	AUX_ECA_AXNECM20091019_062110_20091018_210000_20091019_090000	37	19-OCT-2009 05:30:31
ECMWF_FILE	AUX_ECA_AXNECM20091019_182110_20091019_090000_20091019_210000	48	19-OCT-2009 19:36:20
ECMWF_FILE	AUX_ECF_AXNECM20091019_062111_20091019_150000_20091020_030000	55	19-OCT-2009 20:47:05
ECMWF_FILE	AUX_ECF_AXNECM20091019_062112_20091019_210000_20091020_090000	66	19-OCT-2009 22:27:41
OPTIONAL_ECMWF_FILE	MISSING	1	19-OCT-2009 00:02:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091018_225721_000057382083_00287_39920_8994.N1	1	19-OCT-2009 00:02:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091019_003818_000054192083_00288_39921_8995.N1	4	19-OCT-2009 00:39:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091019_021356_000041442083_00289_39922_8996.N1	16	19-OCT-2009 02:20:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091019_032819_000057382083_00290_39923_8997.N1	26	19-OCT-2009 03:49:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091019_050916_000057382083_00291_39924_8998.N1	37	19-OCT-2009 05:30:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091019_193000_000038252083_00300_39933_8999.N1	48	19-OCT-2009 19:36:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091019_203904_000060572083_00300_39933_9000.N1	55	19-OCT-2009 20:47:05
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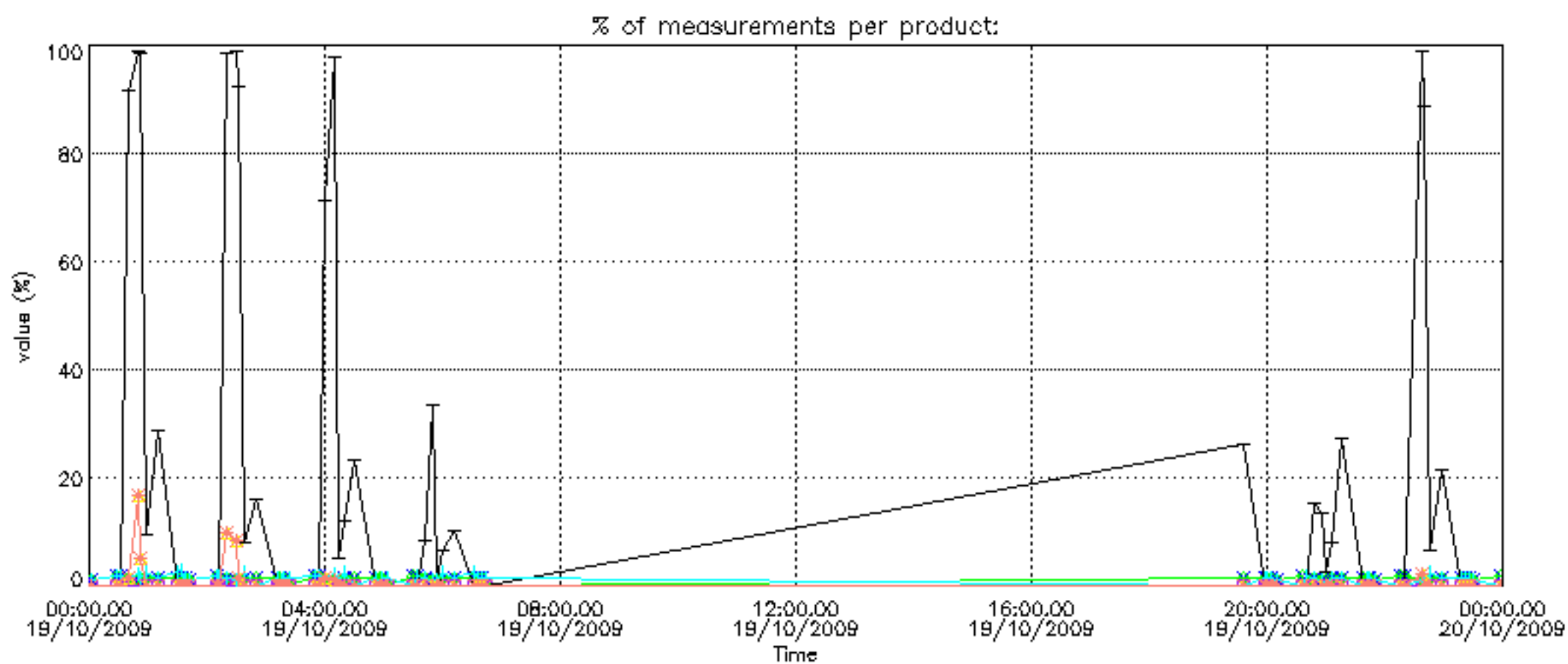




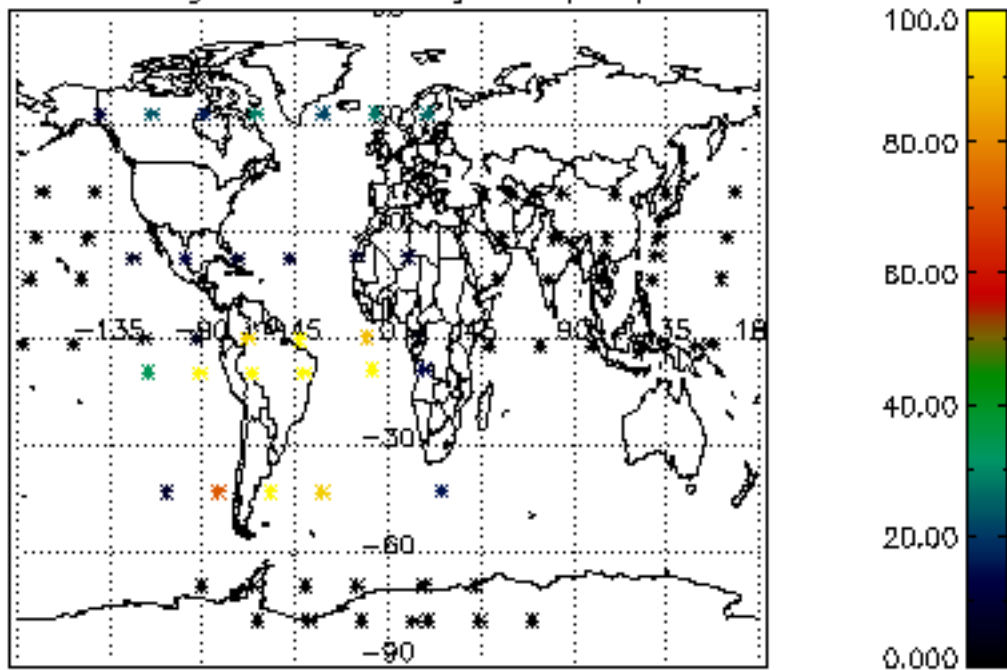




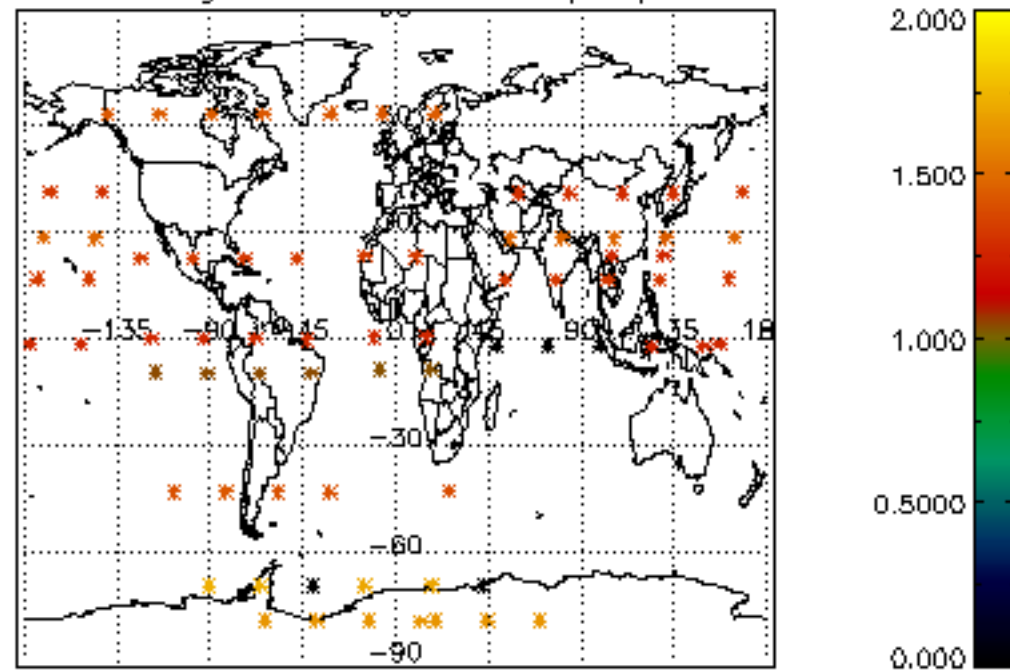




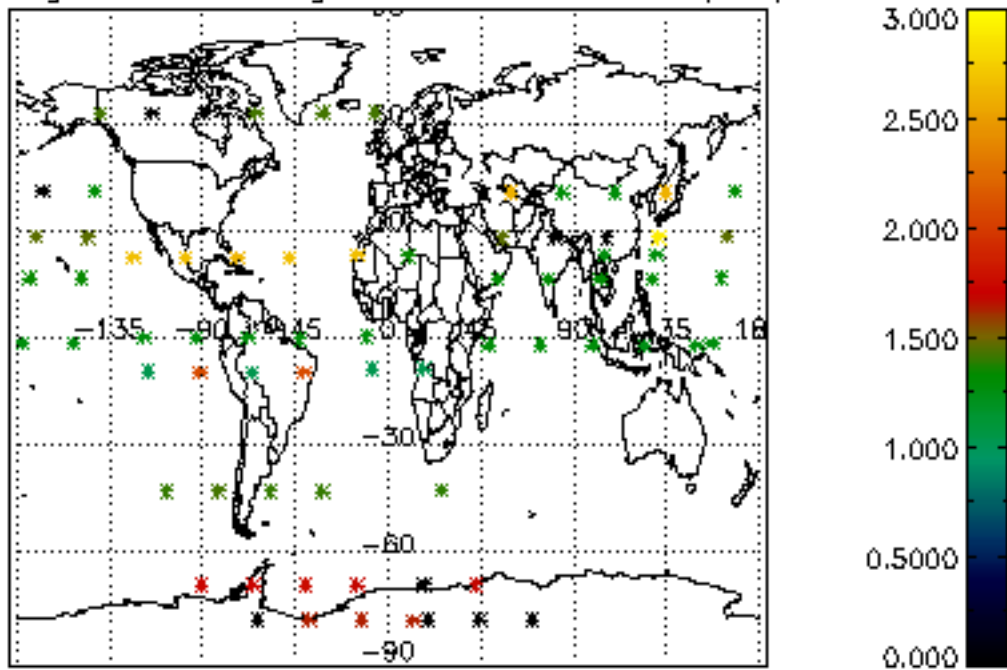
Percentage of cosmic ray hits per profile



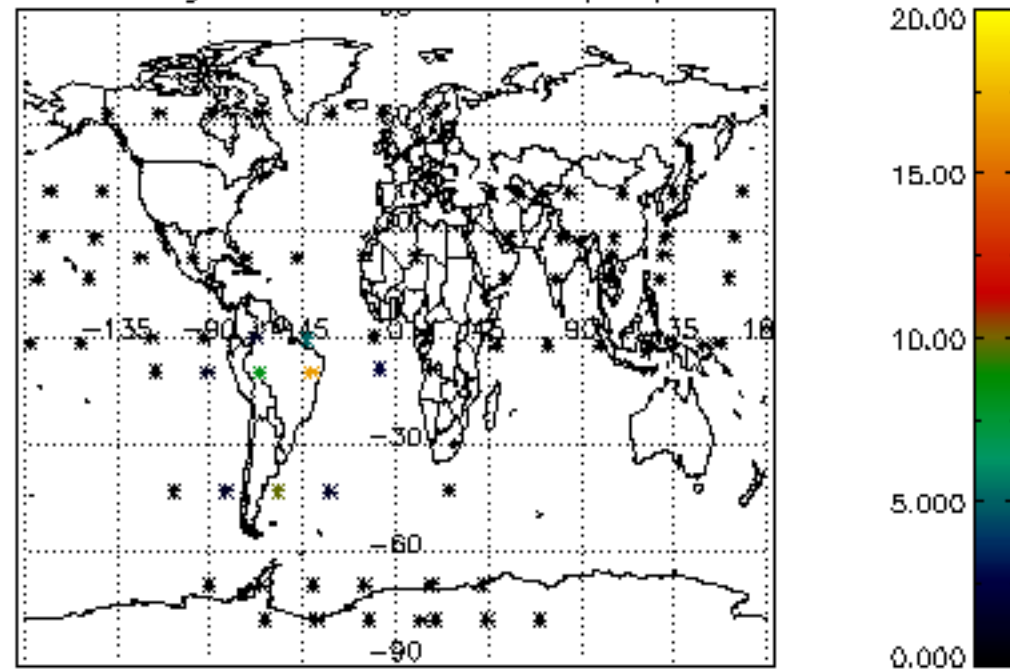
Percentage of datation errors per profile



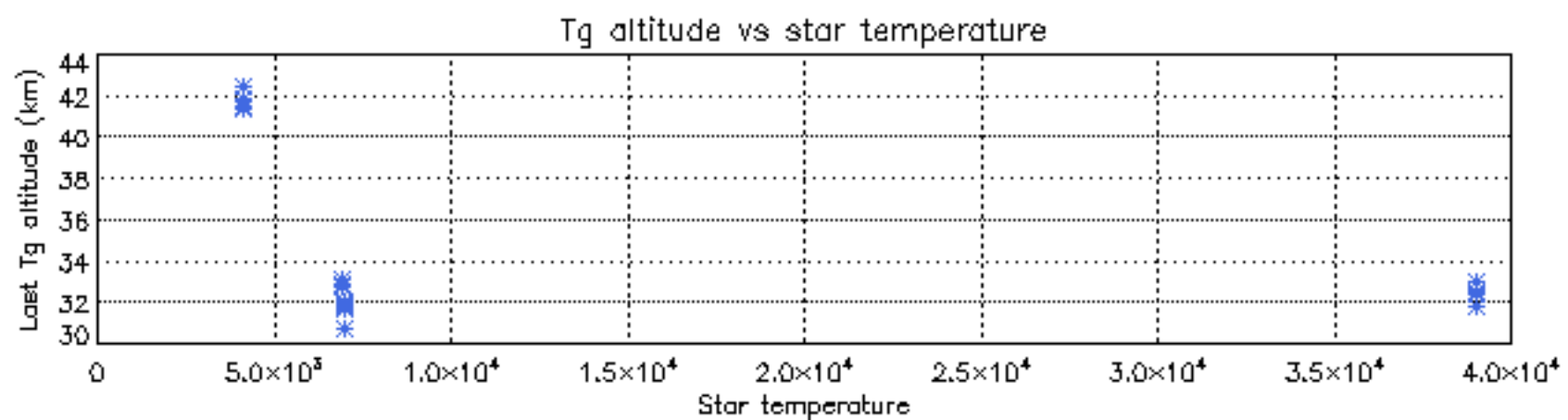
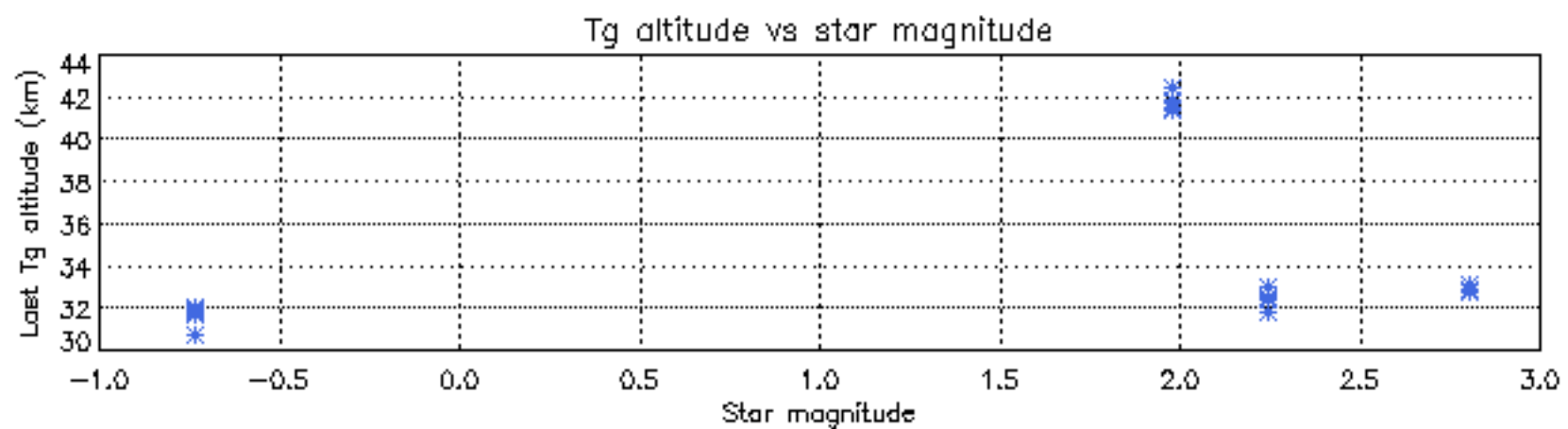
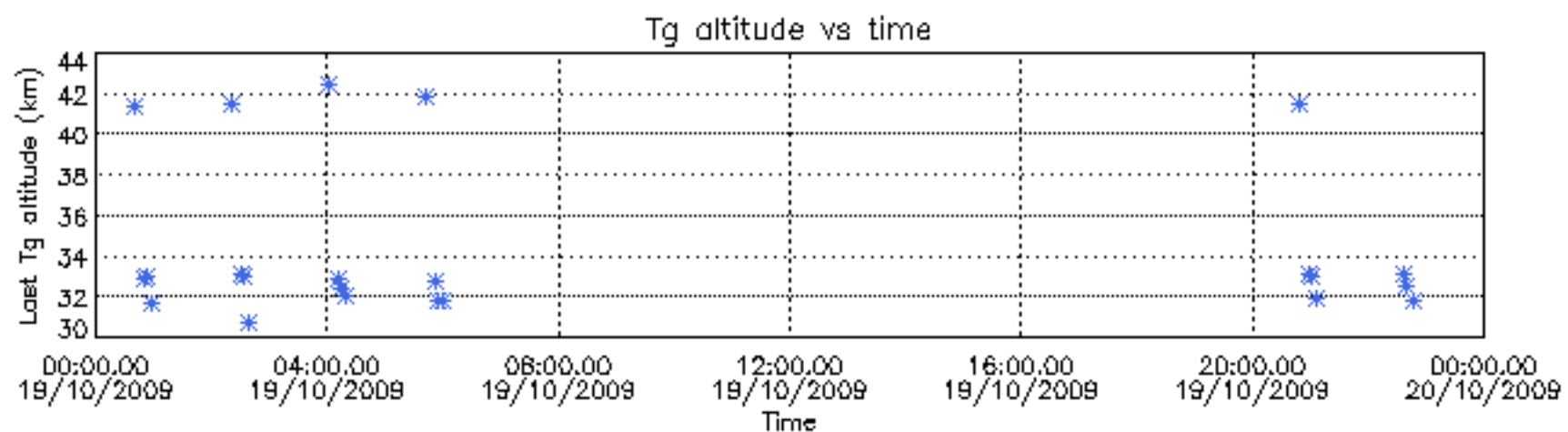
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

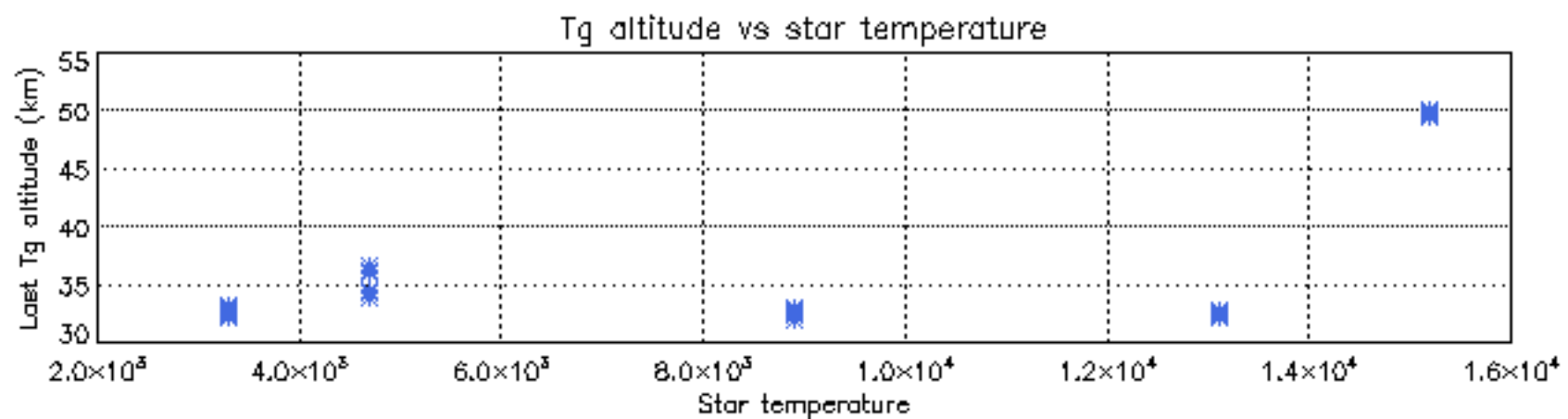
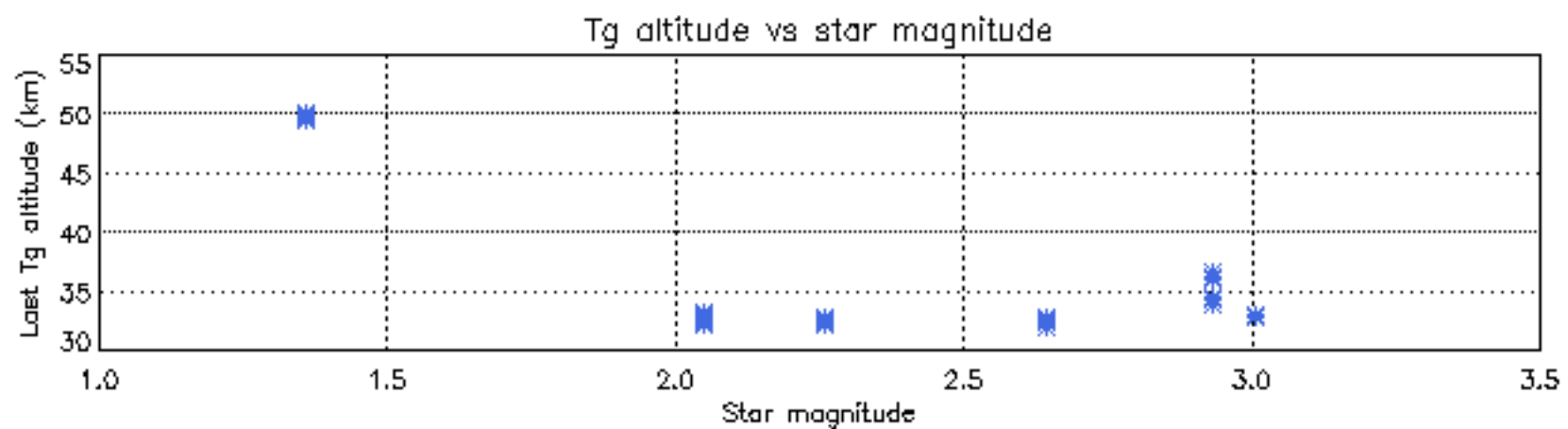
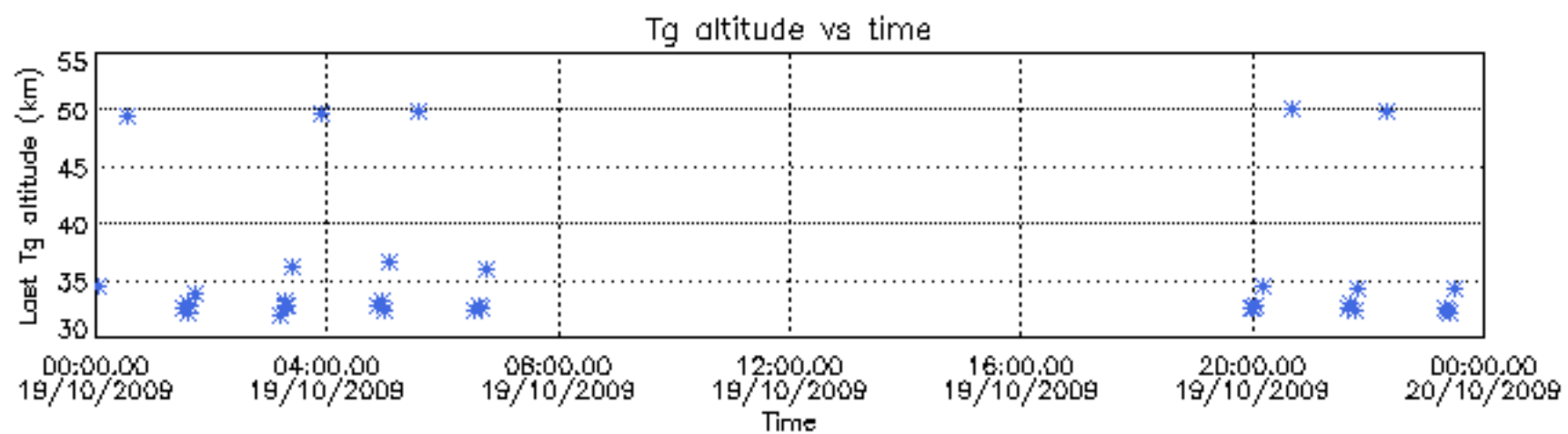


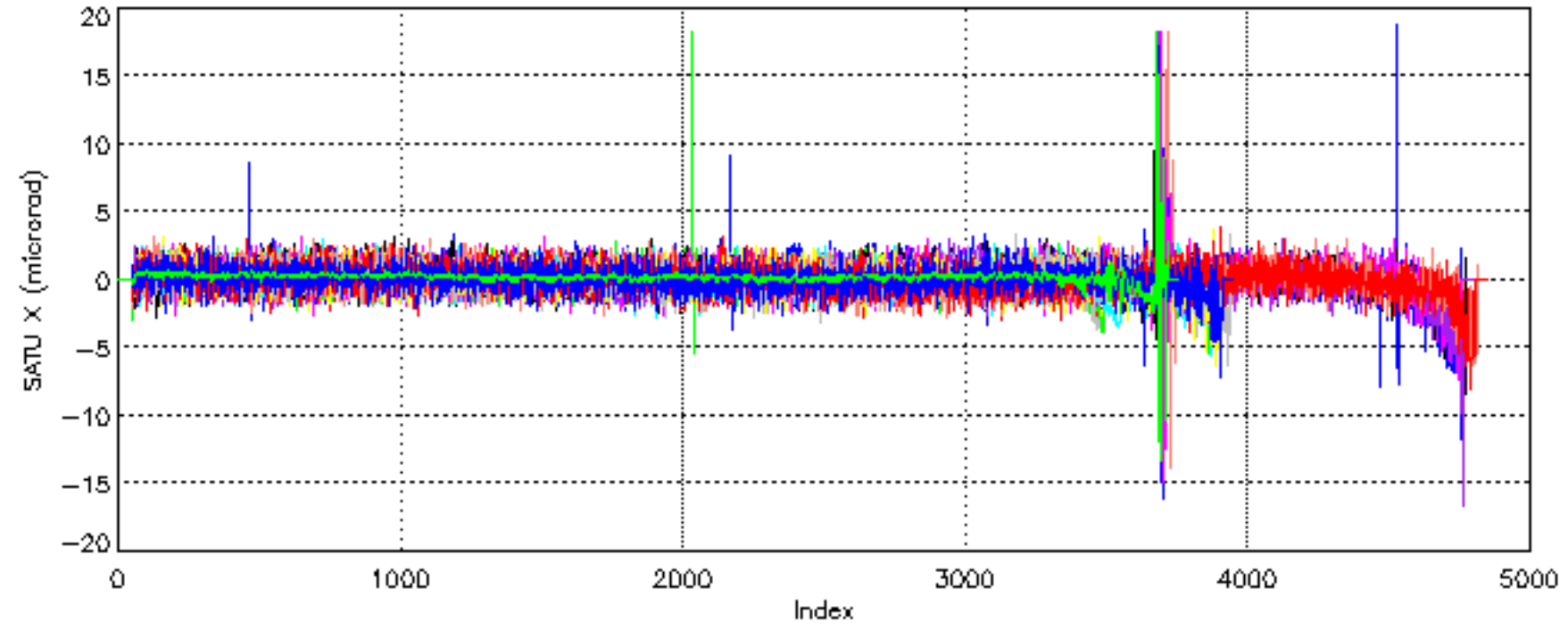
Tangent altitude at which the star is lost

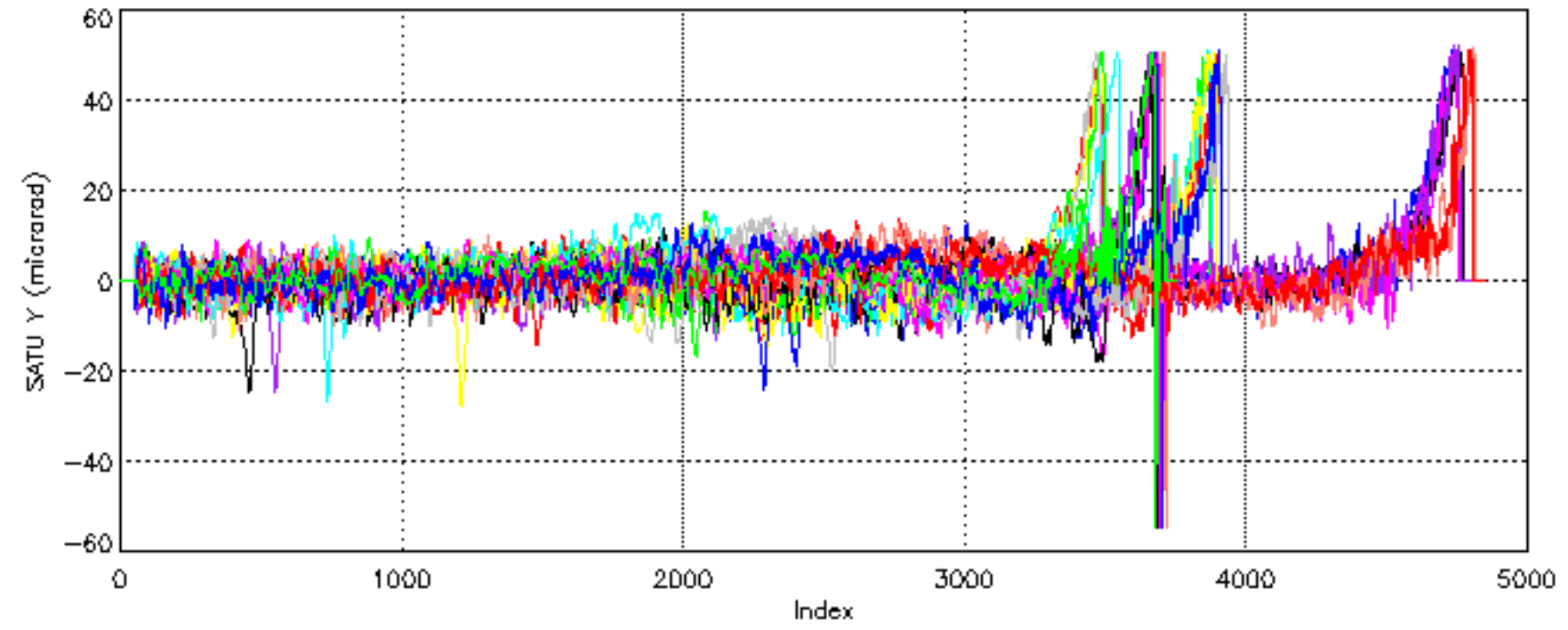




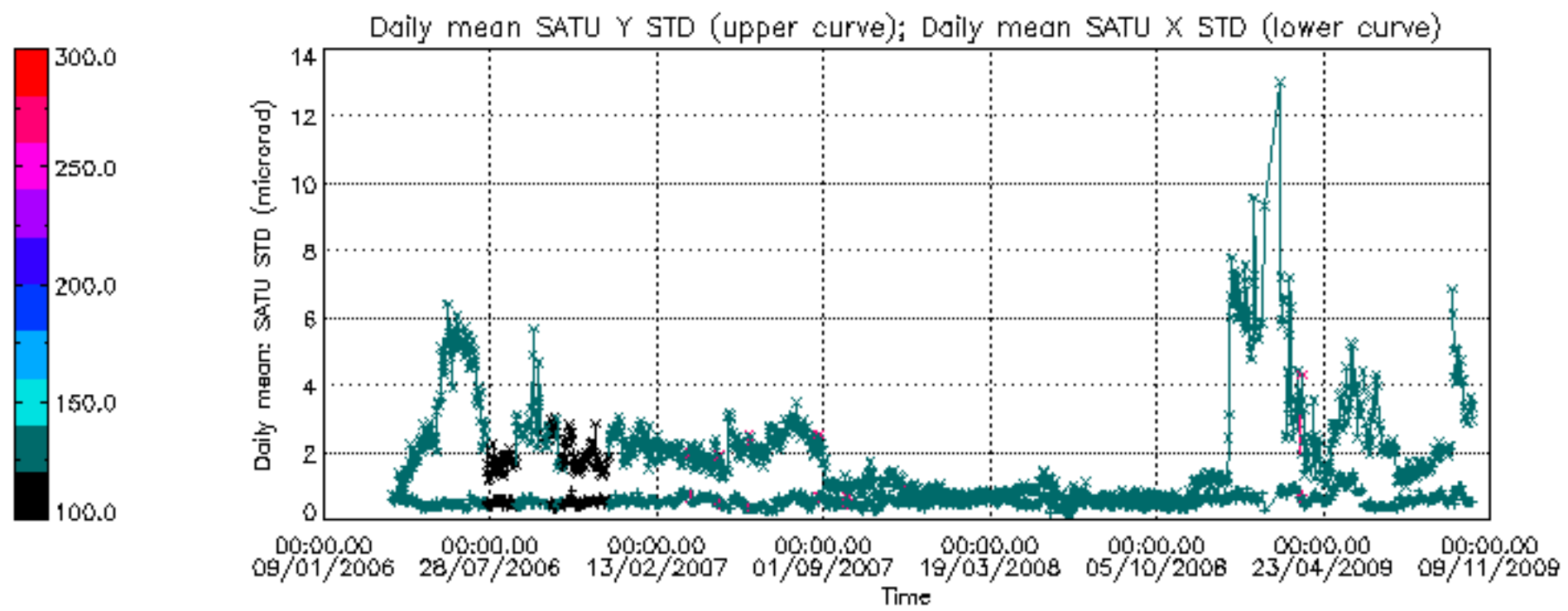
Tangent altitude at which the star is lost











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3; -110.2; 01-OCT-2009 23:43:55; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;39677
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6; 925.2; 02-OCT-2009 00:01:10; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39678
7; 1559.0; 02-OCT-2009 00:11:44; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39678
8; 2182.3; 02-OCT-2009 00:22:07; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39678
9; 2430.9; 02-OCT-2009 00:26:16; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39678
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11; 2940.2; 02-OCT-2009 00:34:45; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39678
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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; 2657.1; 01-OCT-2009 07:44:03; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;39668
4; 2943.9; 01-OCT-2009 07:48:50; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39668
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9; 5914.2; 01-OCT-2009 08:38:20; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 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
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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8; 5810.2; 01-OCT-2009 10:17:12; Dark ; 40.5; 88; 31Eta CMA ; 2.45; 20000;occ; 81; 0;39669
9; 5915.4; 01-OCT-2009 10:18:57; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;39669
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3; 2656.0; 01-OCT-2009 11:05:14; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39670
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5; 3029.1; 01-OCT-2009 11:11:27; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;39670
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
8; 5593.0; 01-OCT-2009 13:34:46; Dark ; 36.0; 132; 15Rho Pup ; 2.80; 6900;occ; 72; 0;39671
9; 5811.9; 01-OCT-2009 13:38:25; Dark ; 41.0; 88; 31Eta CMA ; 2.45; 20000;occ; 82; 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
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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3; 2431.9; 01-OCT-2009 16:03:17; Bright; 24.5; 58; 21Alp And ; 2.07; 11000;occ; 49; 0;39673
4; 2653.4; 01-OCT-2009 16:06:59; Bright; 23.0; 53; 43Bet And ; 2.05; 3300;occ; 46; 0;39673
5; 2943.9; 01-OCT-2009 16:11:49; Bright; 16.5; 68; 18Alp Cas ; 2.22; 4500;occ; 33; 0;39673
6; 3029.5; 01-OCT-2009 16:13:15; Bright; 16.0; 76; 27Gam Cas ; 2.30; 30000;occ; 32; 0;39673
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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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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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4; 2642.7; 02-OCT-2009 20:36:59; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39690
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2; 110.8; 25-OCT-2009 07:47:37; Dark ; 6.0; 34; Gam2Vel ; 1.79; 23000;occ; 12; 0;40012
3; 257.6; 25-OCT-2009 07:50:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40012
4; 448.1; 25-OCT-2009 07:53:14; Dark ; 6.0; 2; Alp Car ;-0.74; 7000;occ; 12; 0;40012
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1; 2294.0; 25-OCT-2009 08:24:00; Bright; 42.5; 105; 6Bet Ari ; 2.64; 8900;occ; 85; 0;40012
2; 2574.2; 25-OCT-2009 08:28:40; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40012
3; 2693.6; 25-OCT-2009 08:30:39; Bright; 12.0; 73; 57Gam1And ; 2.26; 13100;occ; 24; 0;40012
4; 6484.7; 25-OCT-2009 09:33:50; Dark ; 16.0; 2; Alp Car ;-0.74; 7000;occ; 32; 0;40012
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2; 2573.8; 25-OCT-2009 10:09:15; Bright; 40.5; 173; 4Bet Tri ; 3.00; 8900;occ; 81; 0;40013
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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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
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2; 2572.2; 25-OCT-2009 16:51:38; Bright; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;40017
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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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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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2; 2687.1; 26-OCT-2009 13:00:43; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40029
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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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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2; 2685.9; 26-OCT-2009 18:02:30; Bright; 25.5; 73; 57Gam1And ; 2.26; 13100;occ; 51; 0;40032
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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