

GOMOS Daily Report 20-OCT-2010

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	23OCT2010 04:35:41
Data source version	GOMOS/5.01
Start time of products	20OCT2010 00:25:42
Stop time of products	20OCT2010 23:57:32
Store outputs in DB	Yes
Nb of level 1b prods	64
Nb of prods with errors	0

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

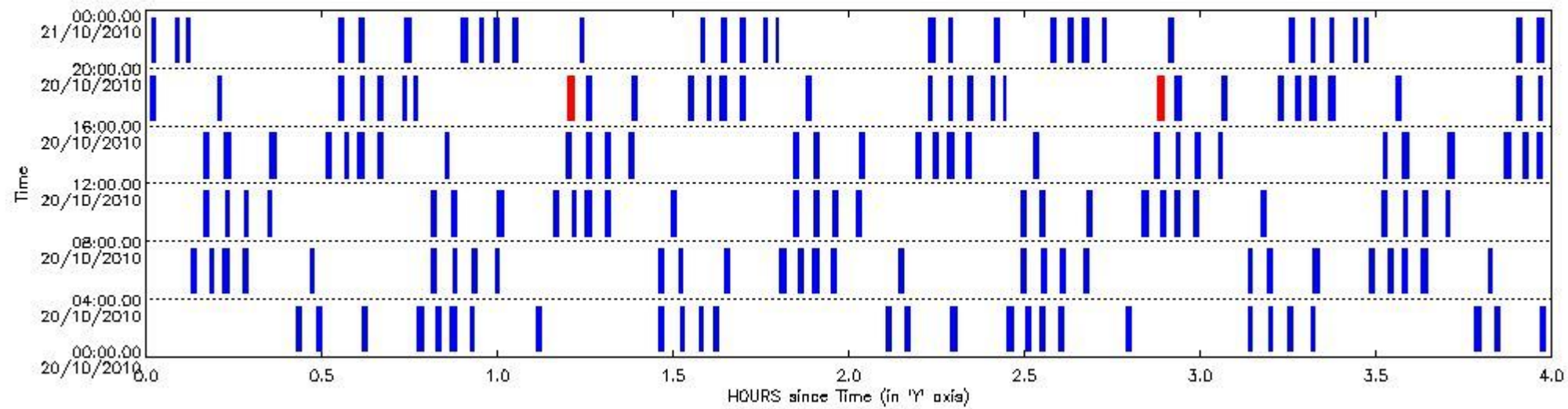
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

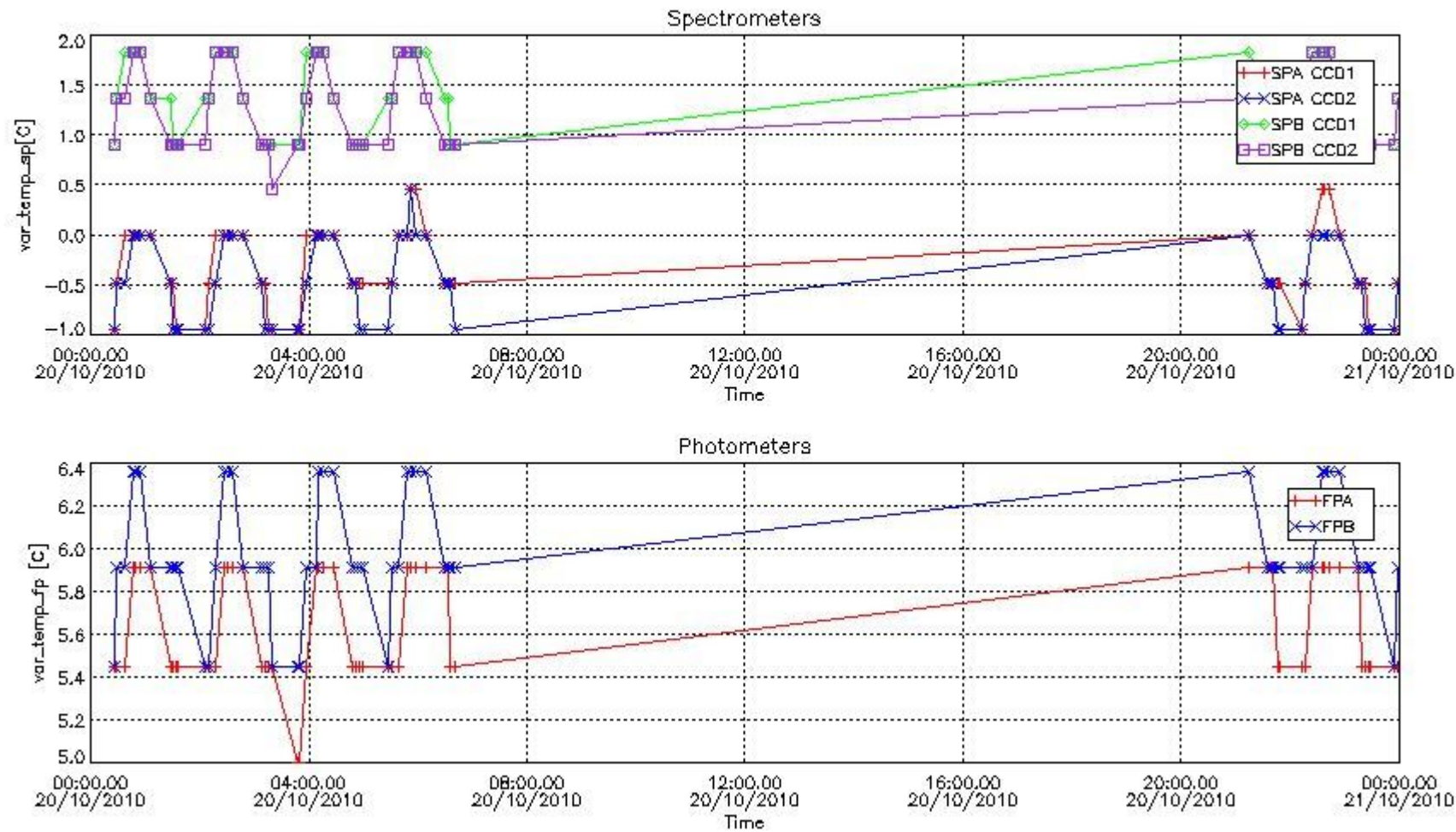
UTC start time	Star name	Star ID	Orbit
20-OCT-2010 17:12:00	17EpsLeo	166	45170
20-OCT-2010 18:52:36	17EpsLeo	166	45171

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_1PNPDE20101020_002542_000000452094_00016_45160_3373.N1	20-OCT-2010 00:25:42	Bright	44.500	166	17Eps Leo	2.9800	6000.0	89	45160	No
2	GOM_TRA_1PNPDE20101020_002904_000000432094_00016_45160_3374.N1	20-OCT-2010 00:29:04	Bright	42.500	22	32Alp Leo	1.3600	15200.	85	45160	No
3	GOM_TRA_1PNPDE20101020_003649_000000532094_00016_45160_3394.N1	20-OCT-2010 00:36:49	Dark	52.500	48	30Alp Hya	1.9770	4100.0	105	45160	No
4	GOM_TRA_1PNPDE20101020_004620_000000562094_00016_45160_3395.N1	20-OCT-2010 00:46:20	Dark	56.000	132	15Rho Pup	2.8030	6900.0	112	45160	No
5	GOM_TRA_1PNPDE20101020_004934_000000442094_00017_45161_3396.N1	20-OCT-2010 00:49:34	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	45161	No
6	GOM_TRA_1PNPDE20101020_005513_000000462094_00017_45161_3397.N1	20-OCT-2010 00:55:13	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	45161	No
7	GOM_TRA_1PNPDE20101020_010641_000000422094_00017_45161_3398.N1	20-OCT-2010 01:06:41	Straylight	42.000	157	The1Eri	2.9060	9300.0	84	45161	No
8	GOM_TRA_1PNPDE20101020_012732_000000452094_00017_45161_3399.N1	20-OCT-2010 01:27:32	Bright	45.000	105	6Bet Ari	2.6450	8900.0	90	45161	No
9	GOM_TRA_1PNPDE20101020_013107_000000432094_00017_45161_3400.N1	20-OCT-2010 01:31:07	Bright	42.500	53	43Bet And	2.0480	3300.0	85	45161	No

10	GOM_TRA_1PNPDE20101020_013420_000000432094_00017_45161_3401.N1	20-OCT-2010 01:34:20	Bright	43.000	73	57Gam1And	2.2600	13100.	86	45161	No
11	GOM_TRA_1PNPDE20101020_013655_000000522094_00017_45161_3402.N1	20-OCT-2010 01:36:55	Bright	52.000	79	26Bet Per	2.3100	13100.	104	45161	No
12	GOM_TRA_1PNPDE20101020_020619_000000442094_00017_45161_3403.N1	20-OCT-2010 02:06:19	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	45161	No
13	GOM_TRA_1PNPDE20101020_020940_000000432094_00017_45161_3417.N1	20-OCT-2010 02:09:40	Bright	43.000	22	32Alp Leo	1.3600	15200.	86	45161	No
14	GOM_TRA_1PNPDE20101020_021726_000000522094_00017_45161_3418.N1	20-OCT-2010 02:17:26	Dark	52.000	48	30Alp Hya	1.9770	4100.0	104	45161	No
15	GOM_TRA_1PNPDE20101020_022657_000000592094_00017_45161_3419.N1	20-OCT-2010 02:26:57	Dark	58.500	132	15Rho Pup	2.8030	6900.0	117	45161	No
16	GOM_TRA_1PNPDE20101020_023011_000000442094_00018_45162_3420.N1	20-OCT-2010 02:30:11	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	45162	No
17	GOM_TRA_1PNPDE20101020_023550_000000482094_00018_45162_3421.N1	20-OCT-2010 02:35:50	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	45162	No
18	GOM_TRA_1PNPDE20101020_024717_000000452094_00018_45162_3422.N1	20-OCT-2010 02:47:17	Straylight	44.500	157	The1Eri	2.9060	9300.0	89	45162	No
19	GOM_TRA_1PNPDE20101020_030807_000000452094_00018_45162_3423.N1	20-OCT-2010 03:08:07	Bright	45.000	105	6Bet Ari	2.6450	8900.0	90	45162	No
20	GOM_TRA_1PNPDE20101020_031143_000000392094_00018_45162_3424.N1	20-OCT-2010 03:11:43	Bright	39.000	53	43Bet And	2.0480	3300.0	78	45162	No
21	GOM_TRA_1PNPDE20101020_031456_000000442094_00018_45162_3425.N1	20-OCT-2010 03:14:56	Bright	43.500	73	57Gam1And	2.2600	13100.	87	45162	No
22	GOM_TRA_1PNPDE20101020_031856_000000372094_00018_45162_3426.N1	20-OCT-2010 03:18:56	Bright	37.000	110	37Del Cas	2.6780	8900.0	74	45162	No
23	GOM_TRA_1PNPDE20101020_034655_000000642094_00018_45162_3438.N1	20-OCT-2010 03:46:55	Bright	64.000	166	17Eps Leo	2.9800	6000.0	128	45162	No
24	GOM_TRA_1PNPDE20101020_035017_000000422094_00018_45162_3439.N1	20-OCT-2010 03:50:17	Bright	42.000	22	32Alp Leo	1.3600	15200.	84	45162	No
25	GOM_TRA_1PNPDE20101020_035803_000000562094_00018_45162_3440.N1	20-OCT-2010 03:58:03	Dark	56.000	48	30Alp Hya	1.9770	4100.0	112	45162	No
26	GOM_TRA_1PNPDE20101020_040734_000000552094_00018_45162_3441.N1	20-OCT-2010 04:07:34	Dark	55.000	132	15Rho Pup	2.8030	6900.0	110	45162	No
27	GOM_TRA_1PNPDE20101020_041047_000000432094_00019_45163_3442.N1	20-OCT-2010 04:10:47	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	45163	No
28	GOM_TRA_1PNPDE20101020_041627_000000492094_00019_45163_3443.N1	20-OCT-2010 04:16:27	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	45163	No
29	GOM_TRA_1PNPDE20101020_042754_000000442094_00019_45163_3444.N1	20-OCT-2010 04:27:54	Straylight	43.500	157	The1Eri	2.9060	9300.0	87	45163	No
30	GOM_TRA_1PNPDE20101020_044843_000000452094_00019_45163_3445.N1	20-OCT-2010 04:48:43	Bright	45.000	105	6Bet Ari	2.6450	8900.0	90	45163	No
31	GOM_TRA_1PNPDE20101020_045219_000000402094_00019_45163_3446.N1	20-OCT-2010 04:52:19	Bright	40.000	53	43Bet And	2.0480	3300.0	80	45163	No
32	GOM_TRA_1PNPDE20101020_045531_000000462094_00019_45163_3447.N1	20-OCT-2010 04:55:31	Bright	46.000	73	57Gam1And	2.2600	13100.	92	45163	No
33	GOM_TRA_1PNPDE20101020_045931_000000372094_00019_45163_3448.N1	20-OCT-2010 04:59:31	Bright	37.000	110	37Del Cas	2.6780	8900.0	74	45163	No
34	GOM_TRA_1PNPDE20101020_052731_000000472094_00019_45163_3490.N1	20-OCT-2010 05:27:31	Bright	46.500	166	17Eps Leo	2.9800	6000.0	93	45163	No
35	GOM_TRA_1PNPDE20101020_053053_000000422094_00019_45163_3491.N1	20-OCT-2010 05:30:53	Bright	42.000	22	32Alp Leo	1.3600	15200.	84	45163	No
36	GOM_TRA_1PNPDE20101020_053840_000000572094_00019_45163_3492.N1	20-OCT-2010 05:38:40	Dark	56.500	48	30Alp Hya	1.9770	4100.0	113	45163	No
37	GOM_TRA_1PNPDE20101020_054812_000000552094_00019_45163_3493.N1	20-OCT-2010 05:48:12	Dark	55.000	132	15Rho Pup	2.8030	6900.0	110	45163	No
38	GOM_TRA_1PNPDE20101020_055124_000000442094_00020_45164_3494.N1	20-OCT-2010 05:51:24	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	45164	No
39	GOM_TRA_1PNPDE20101020_055704_000000472094_00020_45164_3495.N1	20-OCT-2010 05:57:04	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	45164	No
40	GOM_TRA_1PNPDE20101020_060830_000000432094_00020_45164_3496.N1	20-OCT-2010 06:08:30	Straylight	43.000	157	The1Eri	2.9060	9300.0	86	45164	No
41	GOM_TRA_1PNPDE20101020_062918_000000452094_00020_45164_3497.N1	20-OCT-2010 06:29:18	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	45164	No
42	GOM_TRA_1PNPDE20101020_063254_000000392094_00020_45164_3498.N1	20-OCT-2010 06:32:54	Bright	39.000	53	43Bet And	2.0480	3300.0	78	45164	No
43	GOM_TRA_1PNPDE20101020_063606_000000452094_00020_45164_3499.N1	20-OCT-2010 06:36:06	Bright	45.000	73	57Gam1And	2.2600	13100.	90	45164	No
44	GOM_TRA_1PNPDE20101020_064007_000000392094_00020_45164_3500.N1	20-OCT-2010 06:40:07	Bright	38.500	110	37Del Cas	2.6780	8900.0	77	45164	No
45	GOM_TRA_1PNPDE20101020_211358_000000442094_00029_45173_3712.N1	20-OCT-2010 21:13:58	Straylight	43.500	157	The1Eri	2.9060	9300.0	87	45173	No
46	GOM_TRA_1PNPDE20101020_213438_000000452094_00029_45173_3713.N1	20-OCT-2010 21:34:38	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	45173	No
47	GOM_TRA_1PNPDE20101020_213815_000000392094_00029_45173_3714.N1	20-OCT-2010 21:38:15	Bright	39.000	53	43Bet And	2.0480	3300.0	78	45173	No
48	GOM_TRA_1PNPDE20101020_214125_000000412094_00029_45173_3715.N1	20-OCT-2010 21:41:25	Bright	40.500	73	57Gam1And	2.2600	13100.	81	45173	No
49	GOM_TRA_1PNPDE20101020_214528_000000382094_00029_45173_3716.N1	20-OCT-2010 21:45:28	Bright	37.500	110	37Del Cas	2.6780	8900.0	75	45173	No
50	GOM_TRA_1PNPDE20101020_214727_000000282094_00029_45173_3717.N1	20-OCT-2010 21:47:27	Tw_i_and_stray	28.000	175	39Del Per	3.0100	19400.	56	45173	No
51	GOM_TRA_1PNPDE20101020_221333_000000652094_00029_45173_3718.N1	20-OCT-2010 22:13:33	Bright	65.000	166	17Eps Leo	2.9800	6000.0	130	45173	No
52	GOM_TRA_1PNPDE20101020_221656_000000432094_00029_45173_3719.N1	20-OCT-2010 22:16:56	Bright	43.000	22	32Alp Leo	1.3600	15200.	86	45173	No
53	GOM_TRA_1PNPDE20101020_222447_000000562094_00029_45173_3733.N1	20-OCT-2010 22:24:47	Dark	55.500	48	30Alp Hya	1.9770	4100.0	111	45173	No
54	GOM_TRA_1PNPDE20101020_223426_000000582094_00029_45173_3734.N1	20-OCT-2010 22:34:26	Dark	58.000	132	15Rho Pup	2.8030	6900.0	116	45173	No
55	GOM_TRA_1PNPDE20101020_223731_000000442094_00030_45174_3735.N1	20-OCT-2010 22:37:31	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	45174	No
56	GOM_TRA_1PNPDE20101020_224311_000000472094_00030_45174_3736.N1	20-OCT-2010 22:43:11	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	45174	No
57	GOM_TRA_1PNPDE20101020_225434_000000452094_00030_45174_3737.N1	20-OCT-2010 22:54:34	Straylight	44.500	157	The1Eri	2.9060	9300.0	89	45174	No
58	GOM_TRA_1PNPDE20101020_231513_000000432094_00030_45174_3738.N1	20-OCT-2010 23:15:13	Bright	42.500	105	6Bet Ari	2.6450	8900.0	85	45174	No
59	GOM_TRA_1PNPDE20101020_231851_000000402094_00030_45174_3739.N1	20-OCT-2010 23:18:51	Bright	40.000	53	43Bet And	2.0480	3300.0	80	45174	No
60	GOM_TRA_1PNPDE20101020_232200_000000412094_00030_45174_3740.N1	20-OCT-2010 23:22:00	Bright	41.000	73	57Gam1And	2.2600	13100.	82	45174	No
61	GOM_TRA_1PNPDE20101020_232604_000000382094_00030_45174_3741.N1	20-OCT-2010 23:26:04	Bright	38.000	110	37Del Cas	2.6780	8900.0	76	45174	No
62	GOM_TRA_1PNPDE20101020_232802_000000322094_00030_45174_3742.N1	20-OCT-2010 23:28:02	Tw_i_and_stray	32.000	175	39Del Per	3.0100	19400.	64	45174	No
63	GOM_TRA_1PNPDE20101020_235409_000000452094_00030_45174_3743.N1	20-OCT-2010 23:54:09	Bright	45.000	166	17Eps Leo	2.9800	6000.0	90	45174	No
64	GOM_TRA_1PNPDE20101020_235732_000000612094_00030_45174_3744.N1	20-OCT-2010 23:57:32	Bright	61.000	22	32Alp Leo	1.3600	15200.	122	45174	No

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



4. Overview of dark signal processing per product

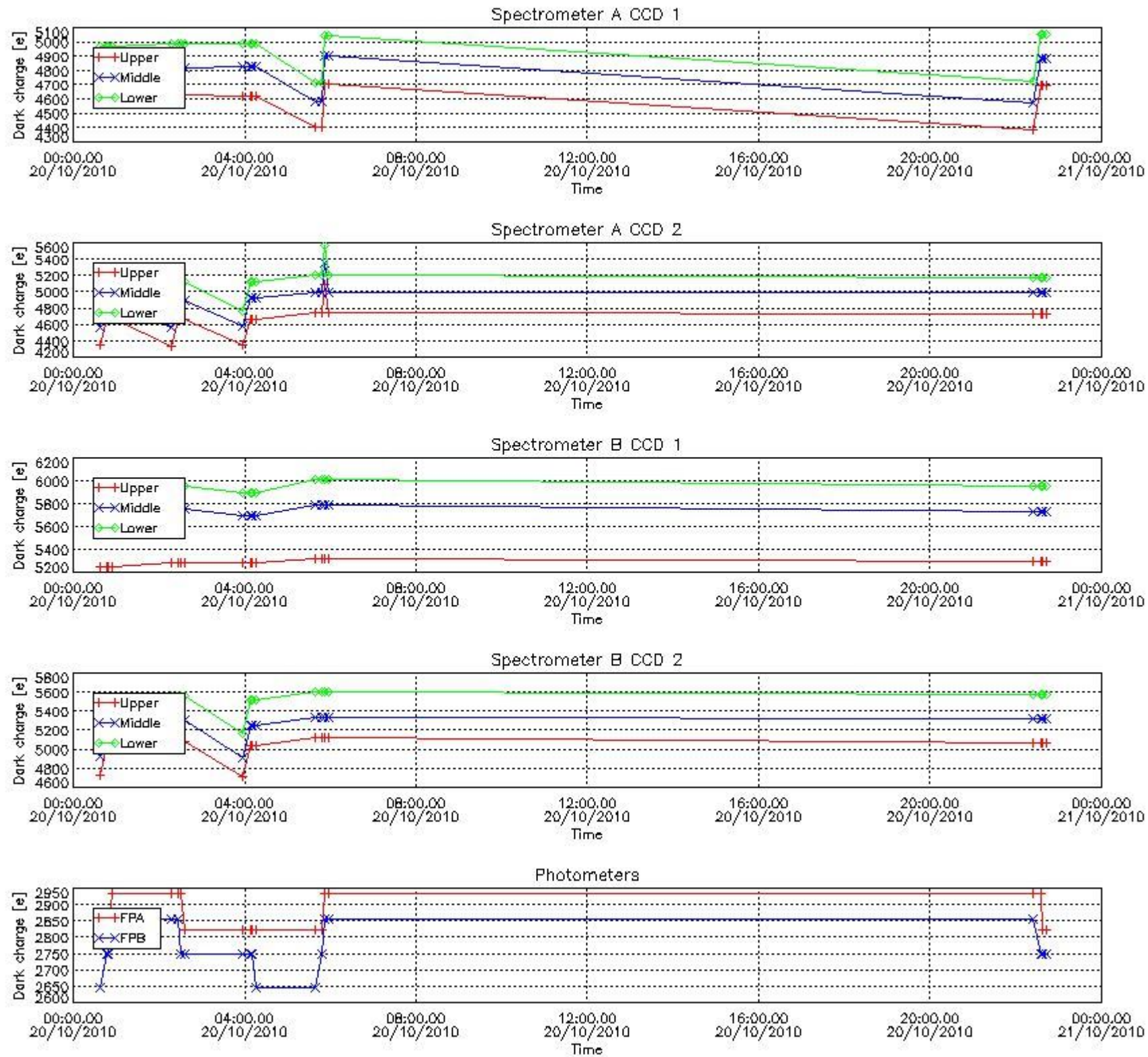
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20101020_211358_000000442094_00029_45173_3712.N1	DC map used
GOM_TRA_1PNPDE20101020_213438_000000452094_00029_45173_3713.N1	DC map used
GOM_TRA_1PNPDE20101020_213815_000000392094_00029_45173_3714.N1	DC map used
GOM_TRA_1PNPDE20101020_214125_000000412094_00029_45173_3715.N1	DC map used
GOM_TRA_1PNPDE20101020_214528_000000382094_00029_45173_3716.N1	DC map used
GOM_TRA_1PNPDE20101020_214727_000000282094_00029_45173_3717.N1	DC map used
GOM_TRA_1PNPDE20101020_221333_000000652094_00029_45173_3718.N1	DC map used
GOM_TRA_1PNPDE20101020_221656_000000432094_00029_45173_3719.N1	DC map used

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



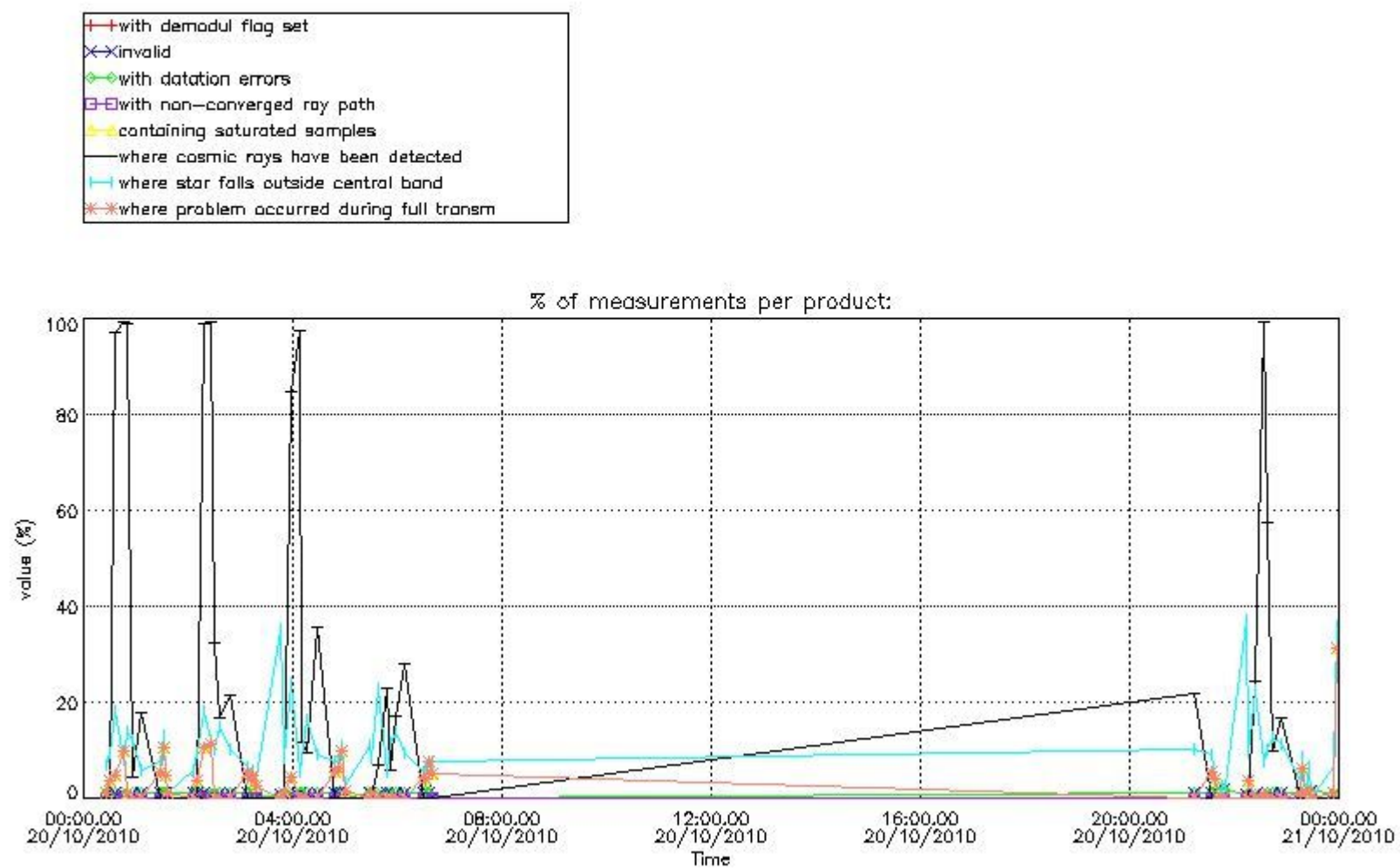
5. Demodulation flag and quality information monitoring

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.

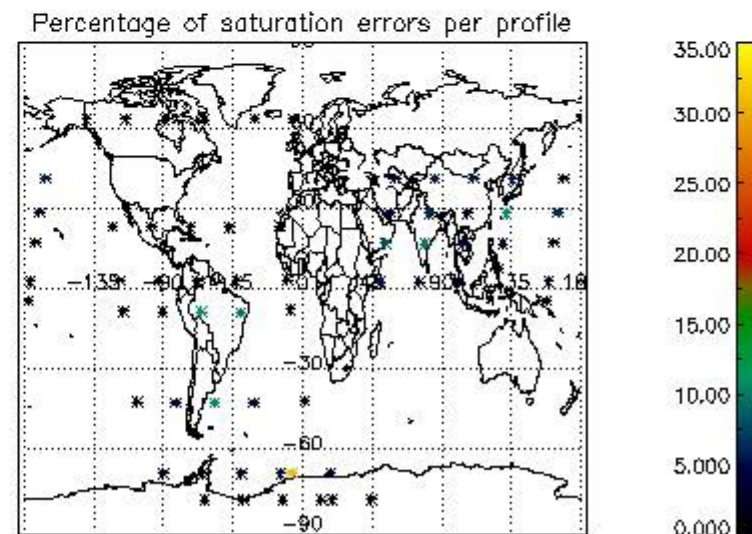
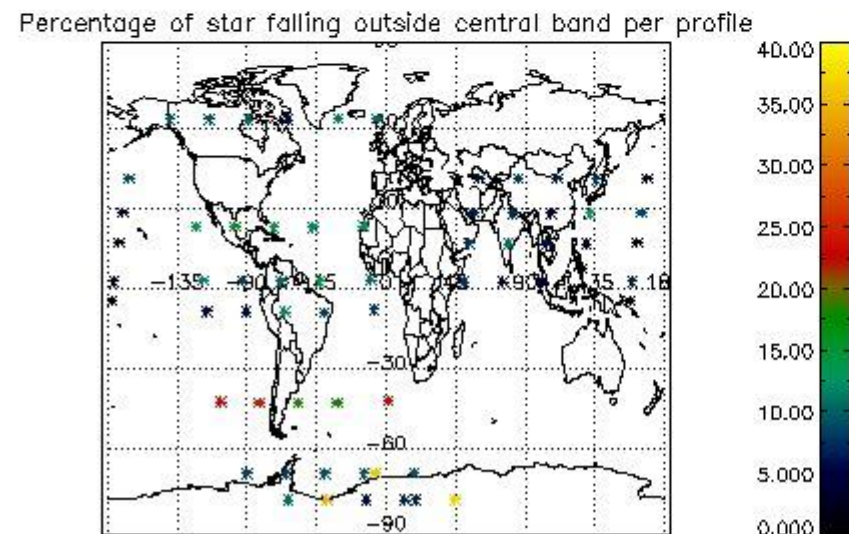
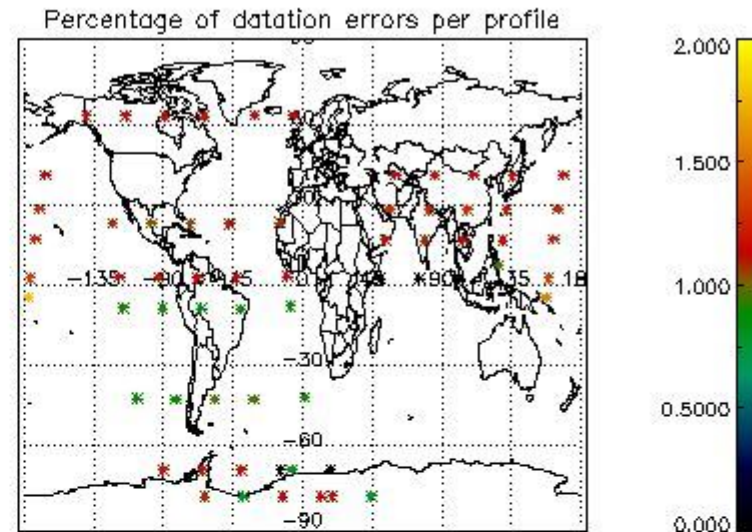
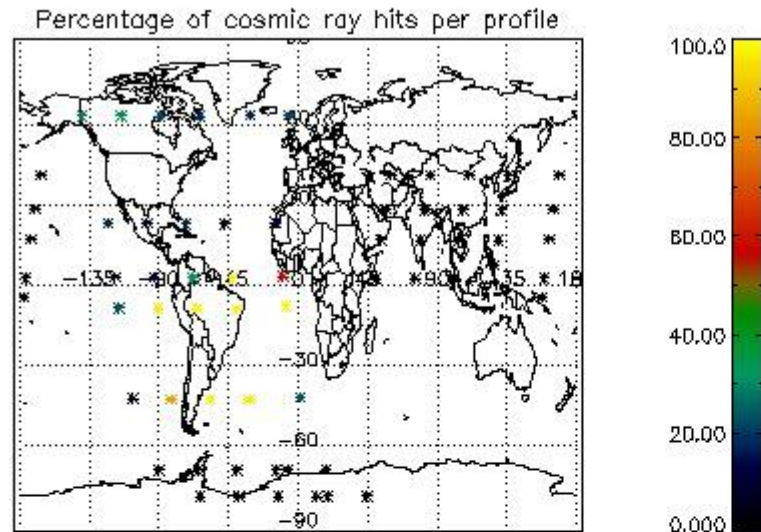
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	39.0625 %
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)



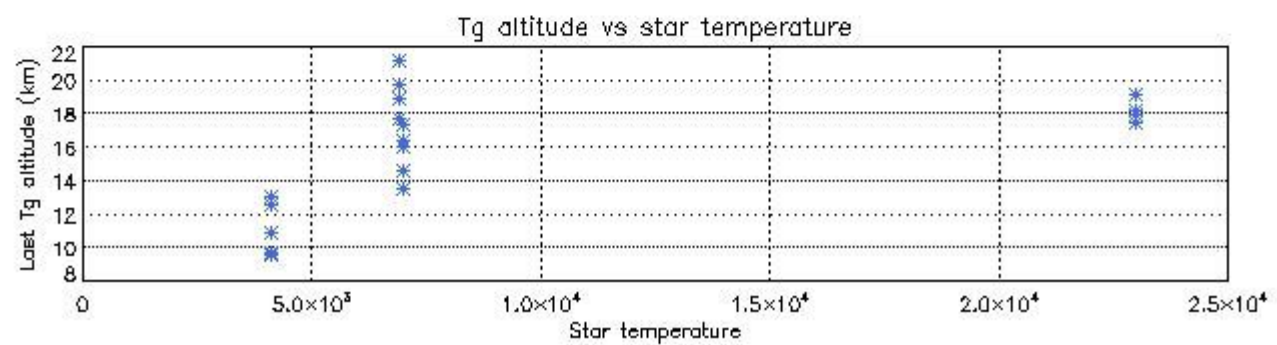
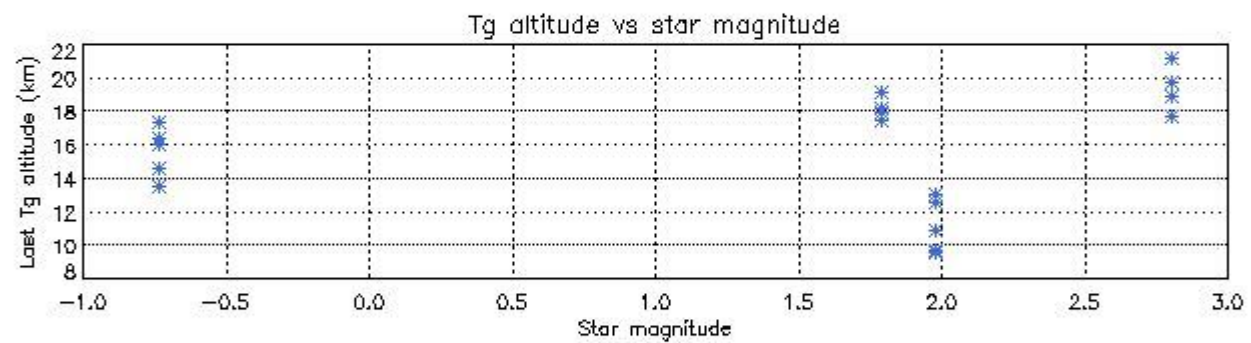
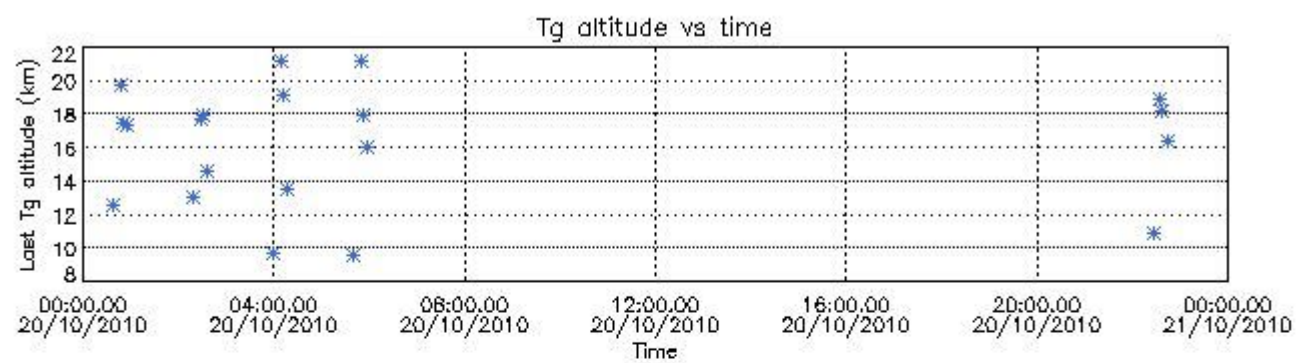
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.139	19.025	NaN
St. deviation:	3.5716	5.0816	NaN
Maximum:	21.192	25.773	NaN
Minimum:	9.5847	4.1547	NaN
Number of data:	20.000	36.000	NaN

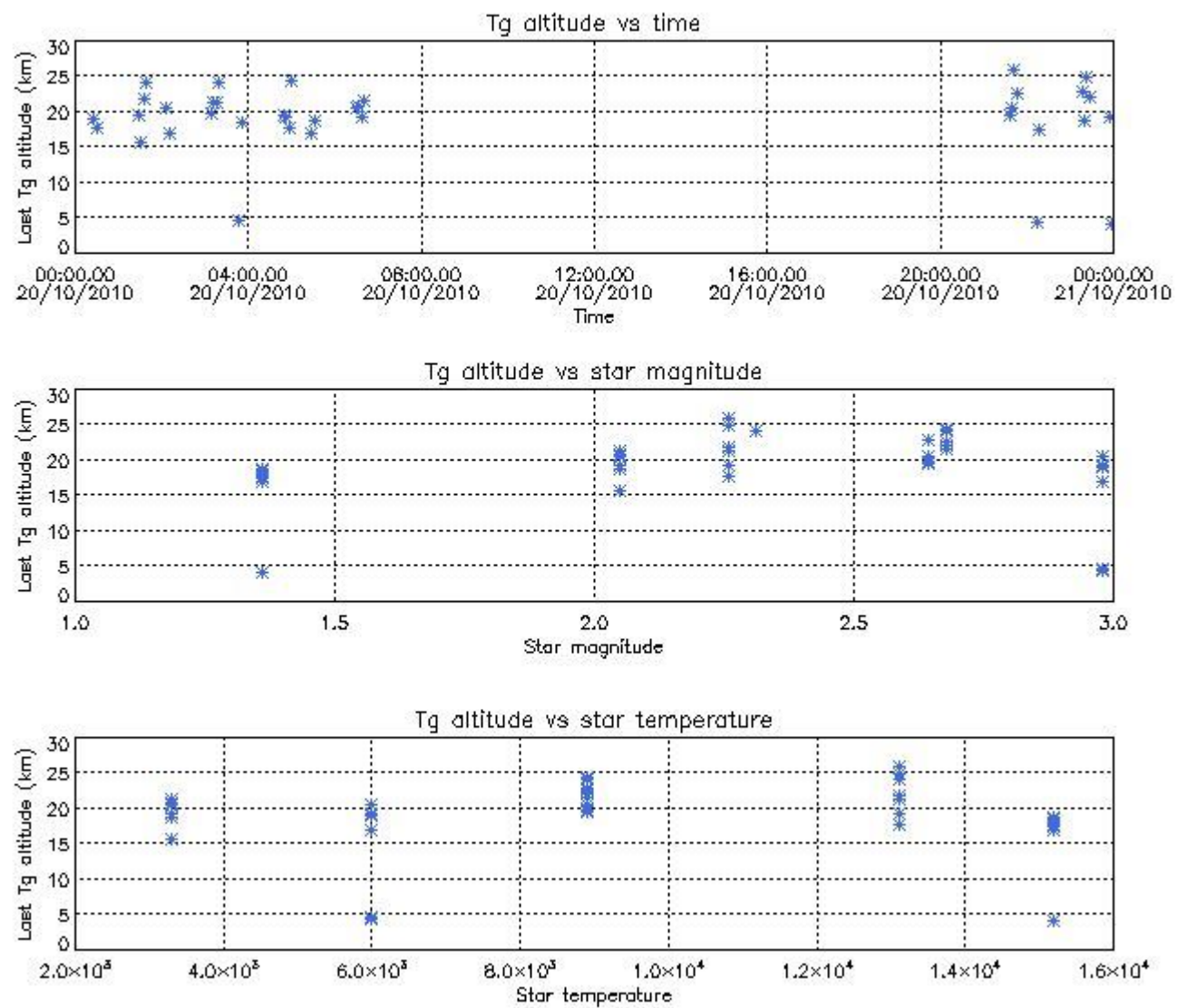
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

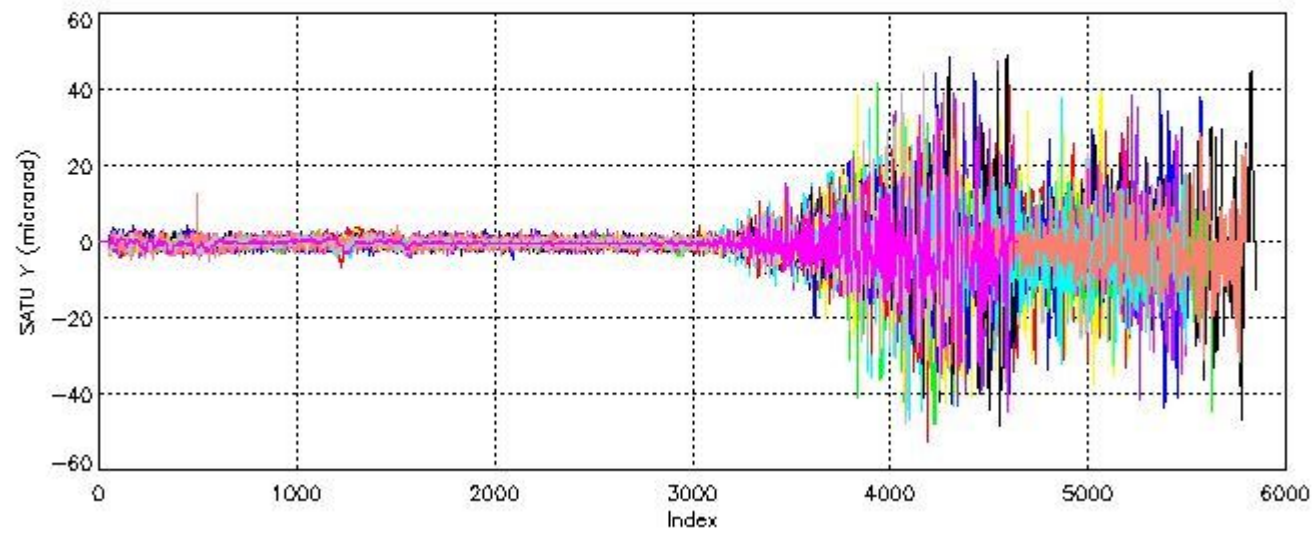
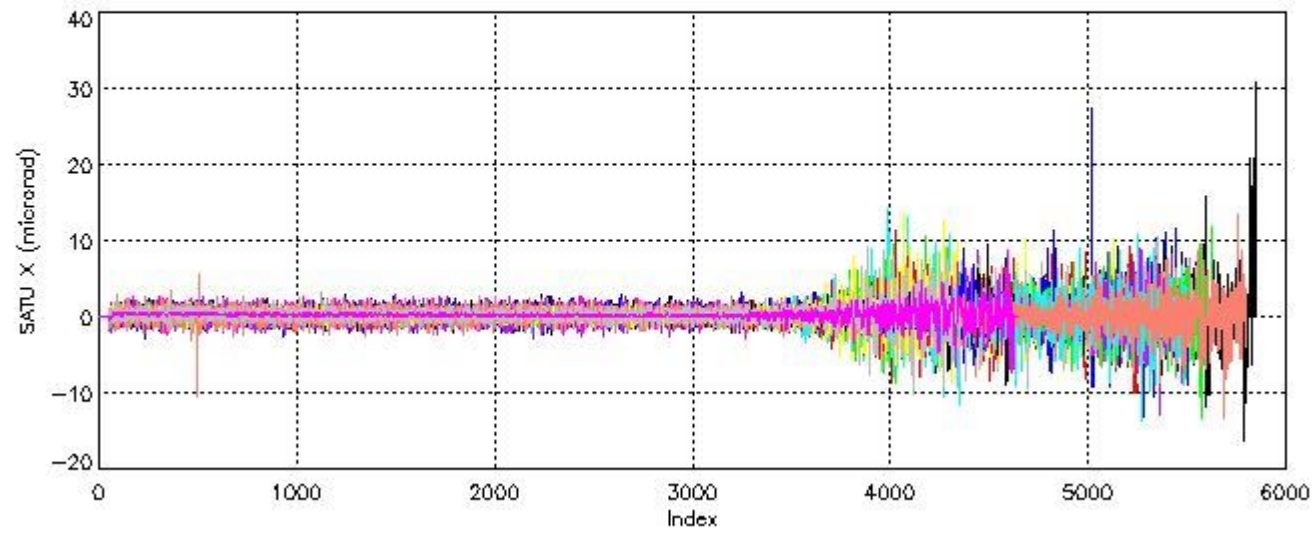


7. Star Acquisition and Tracking Unit (SATU)

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:	0.20345	-0.37474	0.20101	-0.36141
St. deviation:	0.43761	0.90435	0.69041	1.1562
Maximum:	5.4000	12.400	4.6000	5.9000
Minimum:	-10.600	-5.2000	-4.0000	-6.6000

Number of data:	21600.	21600.	36650.	36650.
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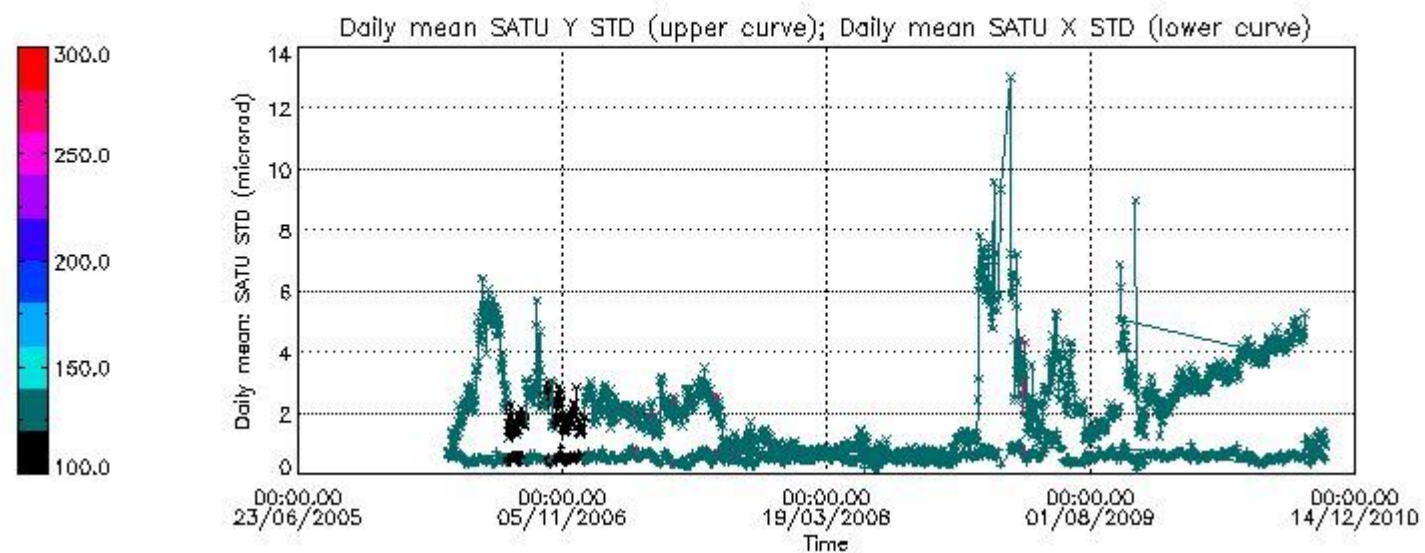
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

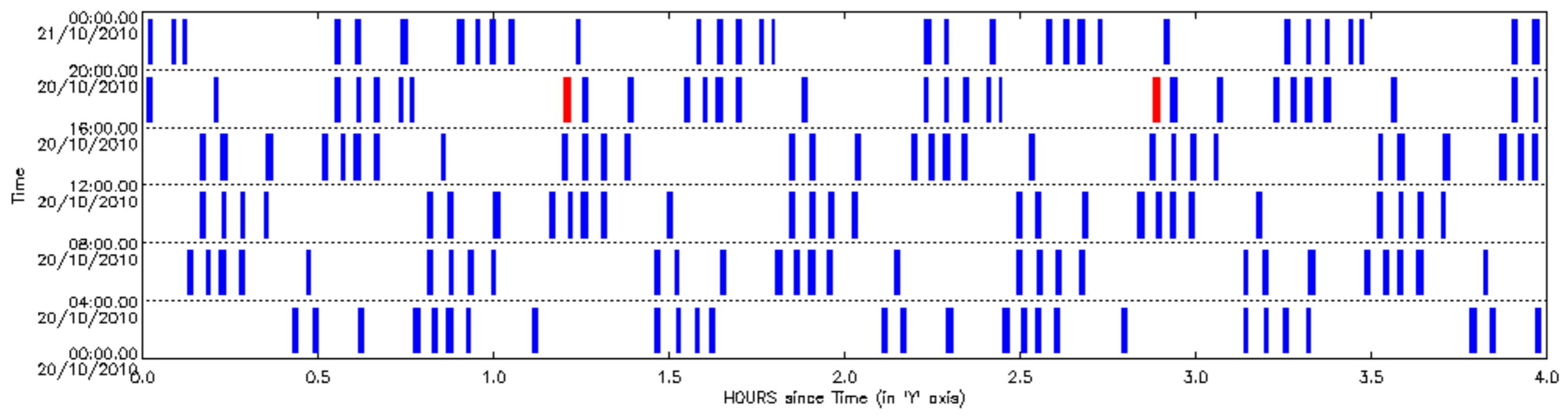
Lower curve: STD of SATU X axis

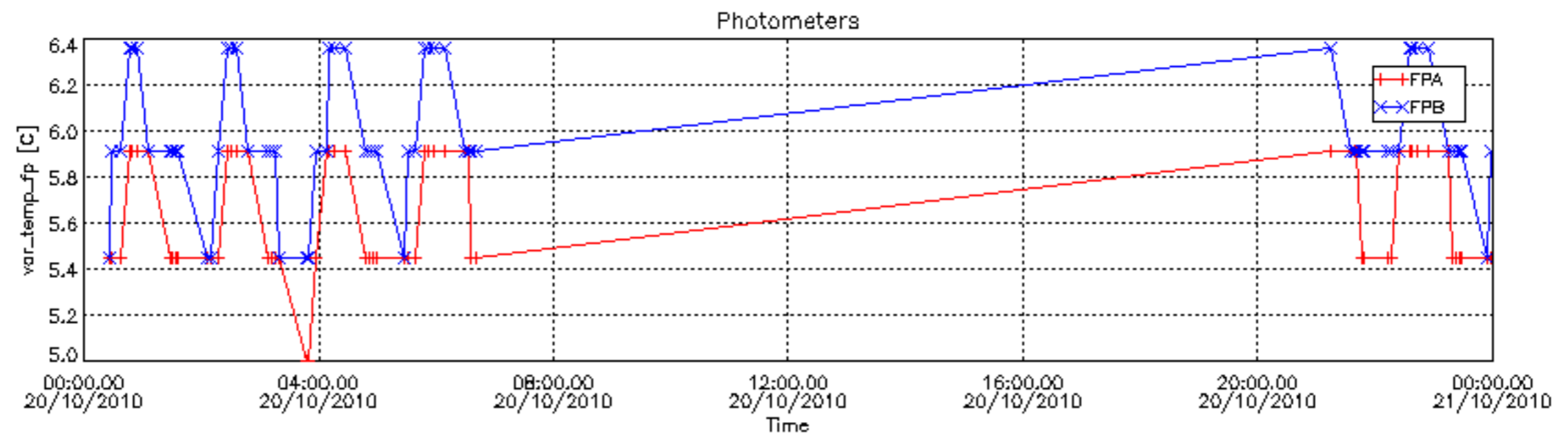
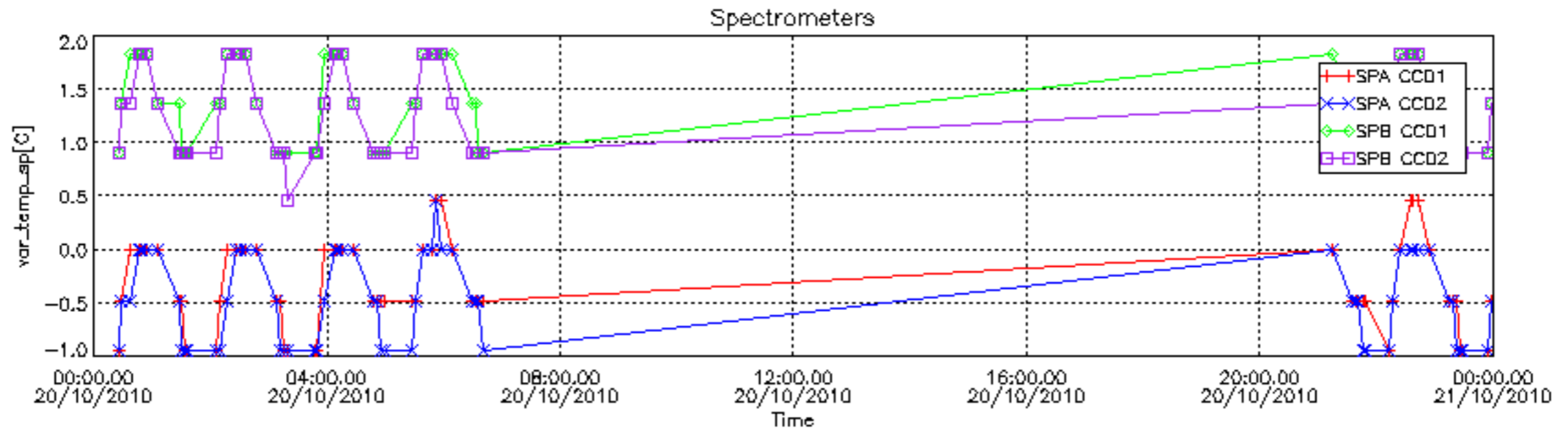


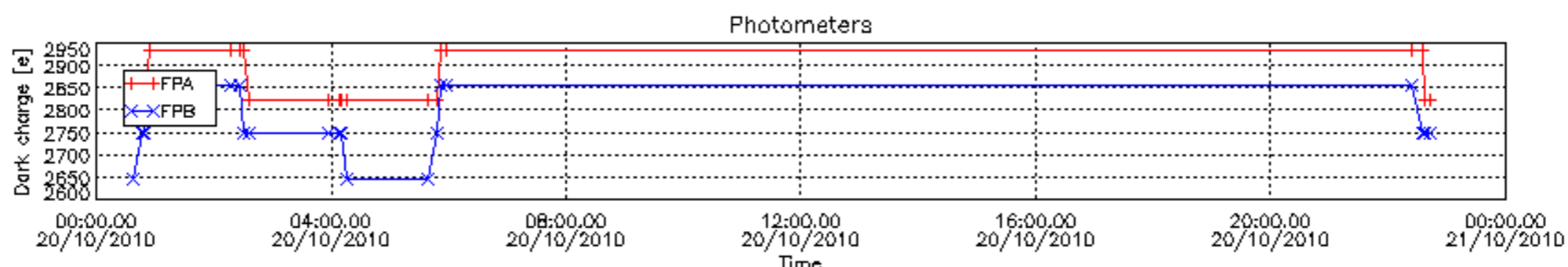
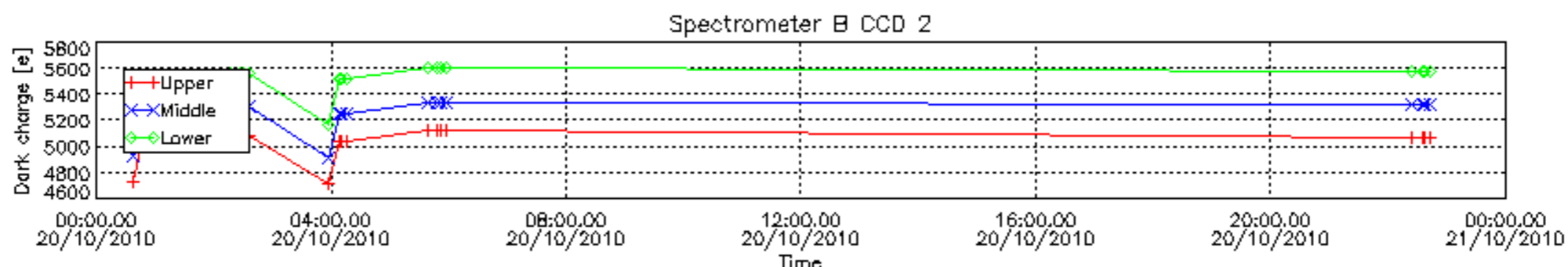
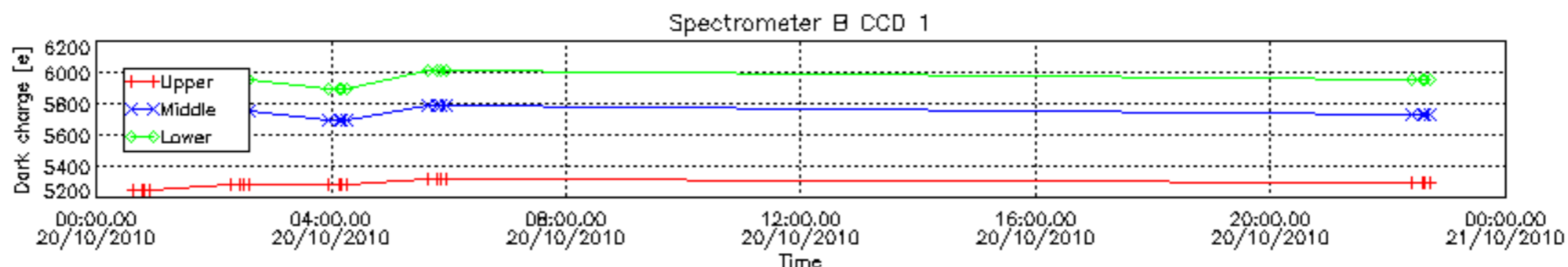
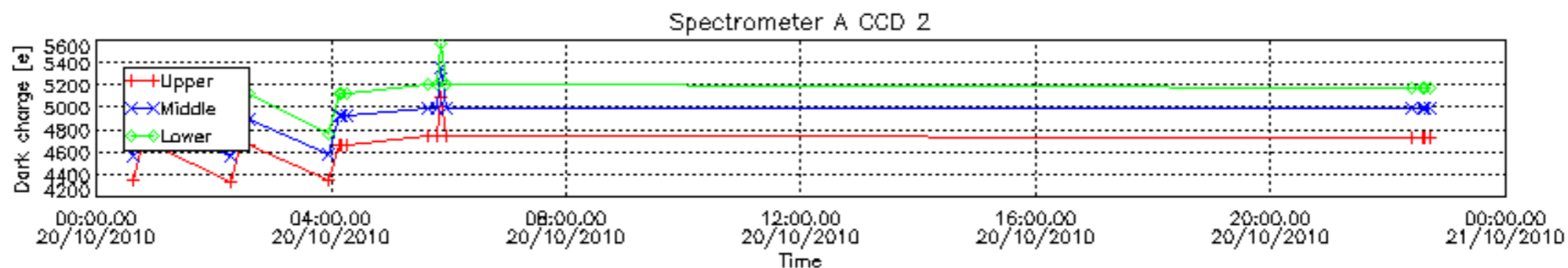
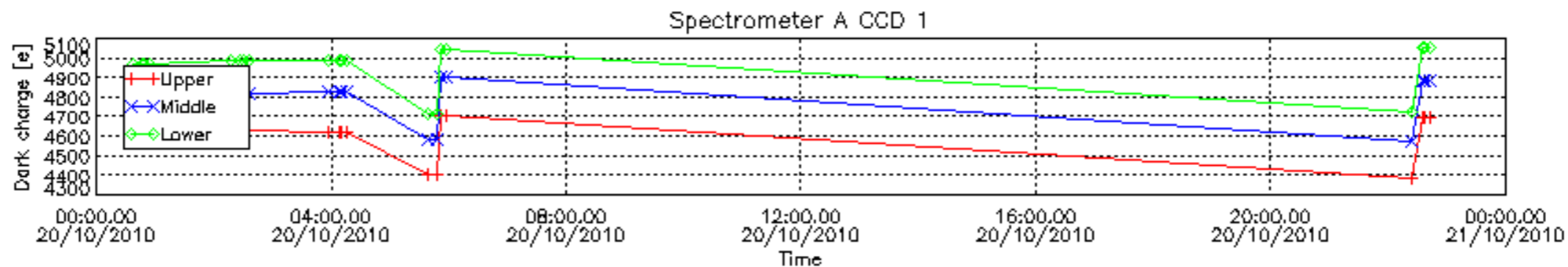
8. Auxiliary Data Files used for the production reported in section 2.4

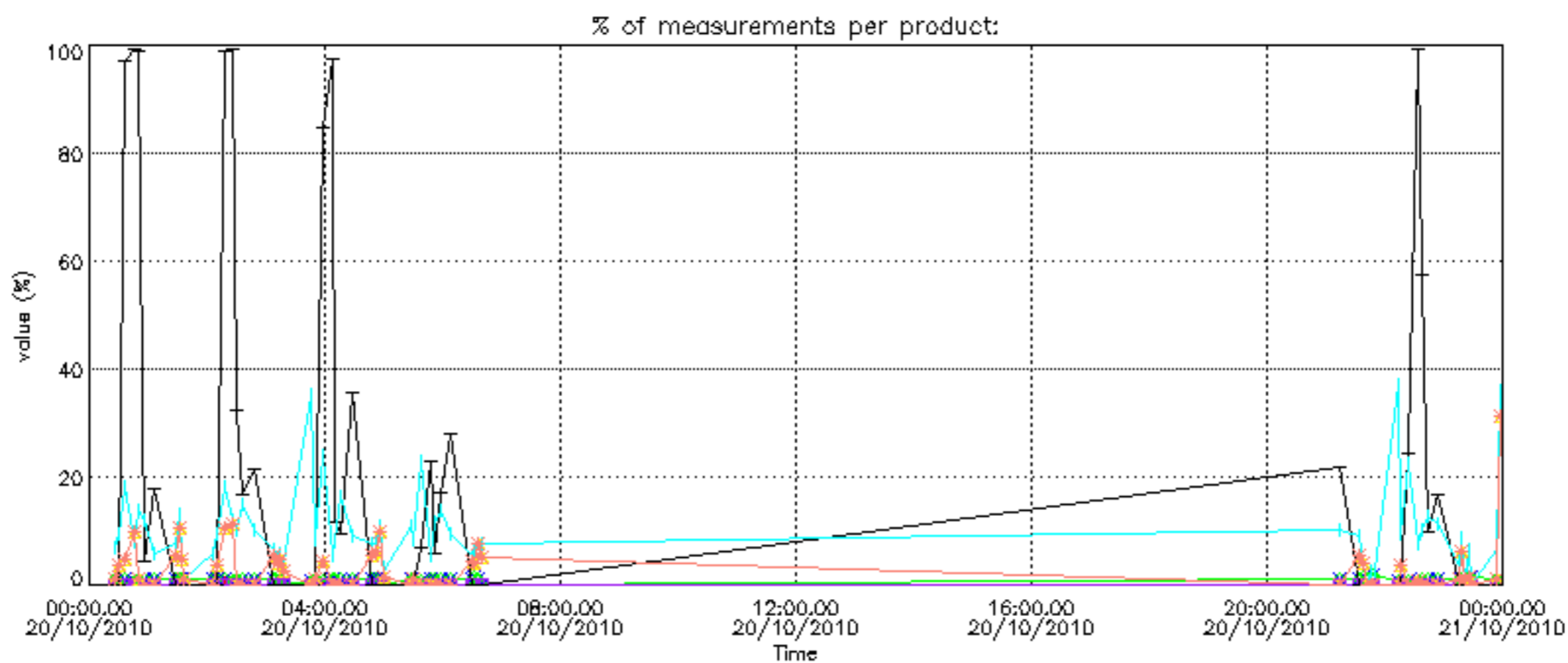
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	20-OCT-2010 00:25:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101011_092457_20101009_000000_20500101_000000	1	20-OCT-2010 00:25:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101020_091716_20101018_000000_20500101_000000	45	20-OCT-2010 21:13:58
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	20-OCT-2010 00:25:42
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-OCT-2010 00:25:42
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	20-OCT-2010 00:25:42
ECMWF_FILE	AUX_ECF_AXNECM20101019_054116_20101019_210000_20101020_090000	1	20-OCT-2010 00:25:42
ECMWF_FILE	AUX_ECF_AXNECM20101019_170830_20101020_030000_20101020_150000	23	20-OCT-2010 03:46:55
ECMWF_FILE	AUX_ECA_AXNECM20101020_060908_20101019_210000_20101020_090000	34	20-OCT-2010 05:27:31
ECMWF_FILE	AUX_ECF_AXNECM20101020_062906_20101020_210000_20101021_090000	45	20-OCT-2010 21:13:58
OPTIONAL_ECMWF_FILE	MISSING	1	20-OCT-2010 00:25:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101019_225034_000057382094_00015_45159_1783.N1	1	20-OCT-2010 00:25:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101020_003131_000054192094_00016_45160_1784.N1	3	20-OCT-2010 00:36:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101020_020709_000044632094_00017_45161_1785.N1	13	20-OCT-2010 02:09:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101020_032651_000057382094_00018_45162_1786.N1	23	20-OCT-2010 03:46:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101020_050748_000057382094_00019_45163_1787.N1	34	20-OCT-2010 05:27:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101020_210929_000041442094_00029_45173_1788.N1	45	20-OCT-2010 21:13:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101020_221833_000060572094_00029_45173_1789.N1	53	20-OCT-2010 22:24:47

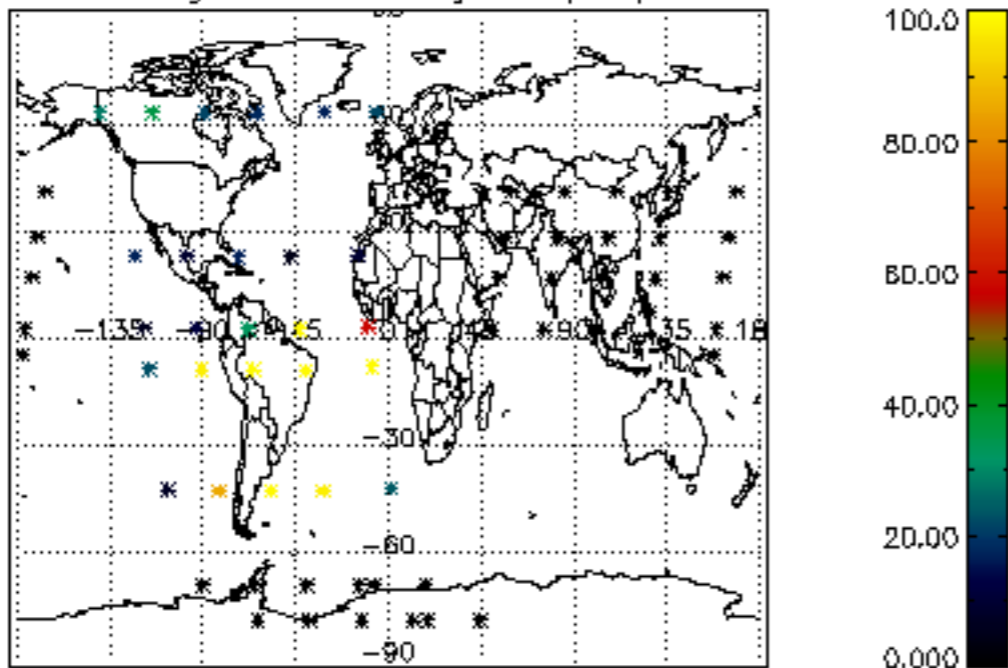




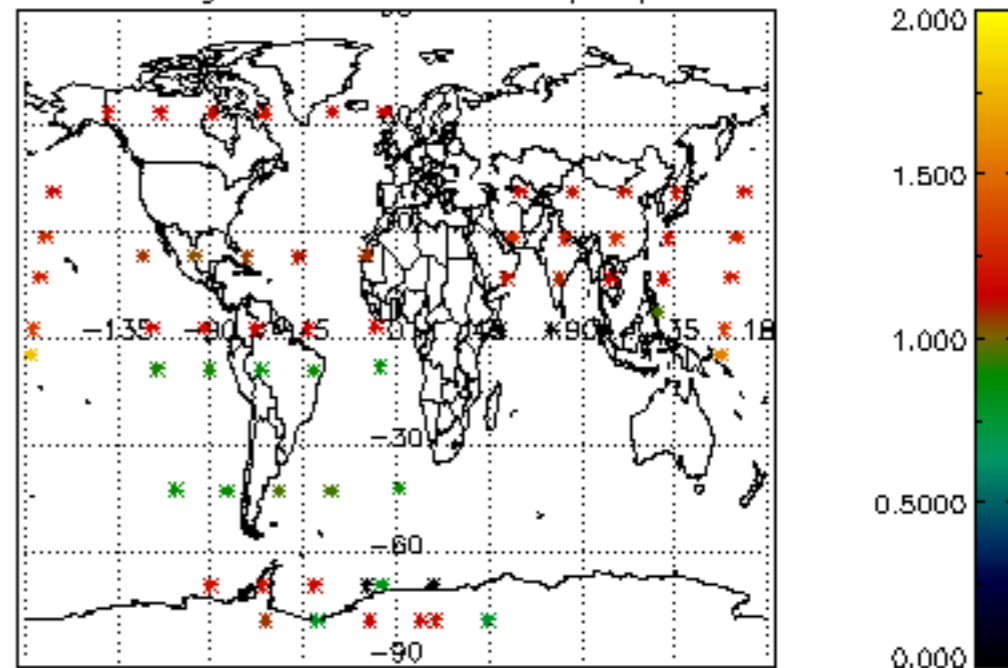




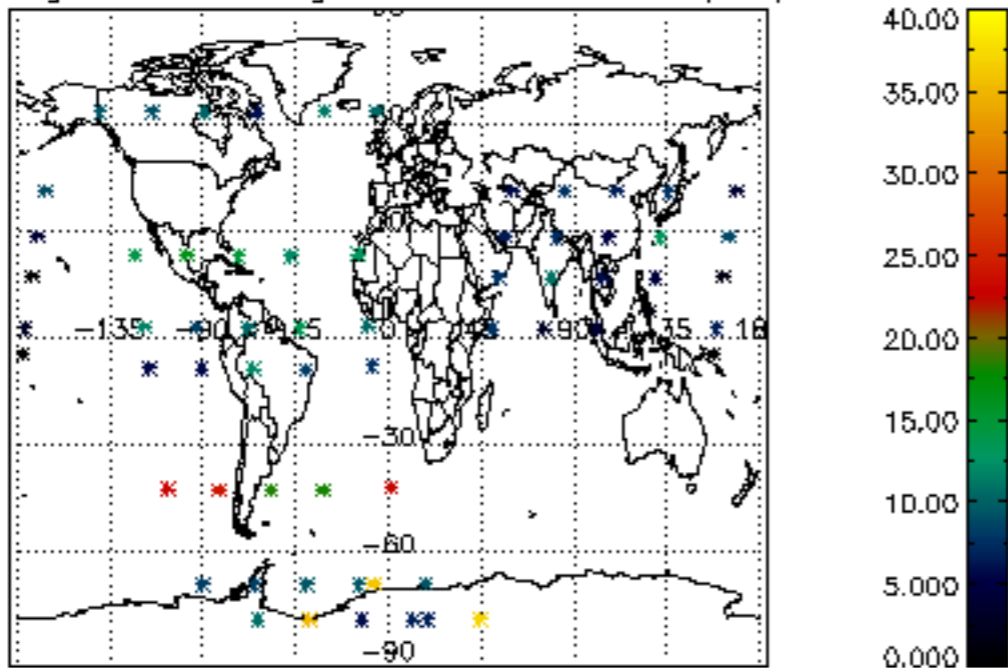
Percentage of cosmic ray hits per profile



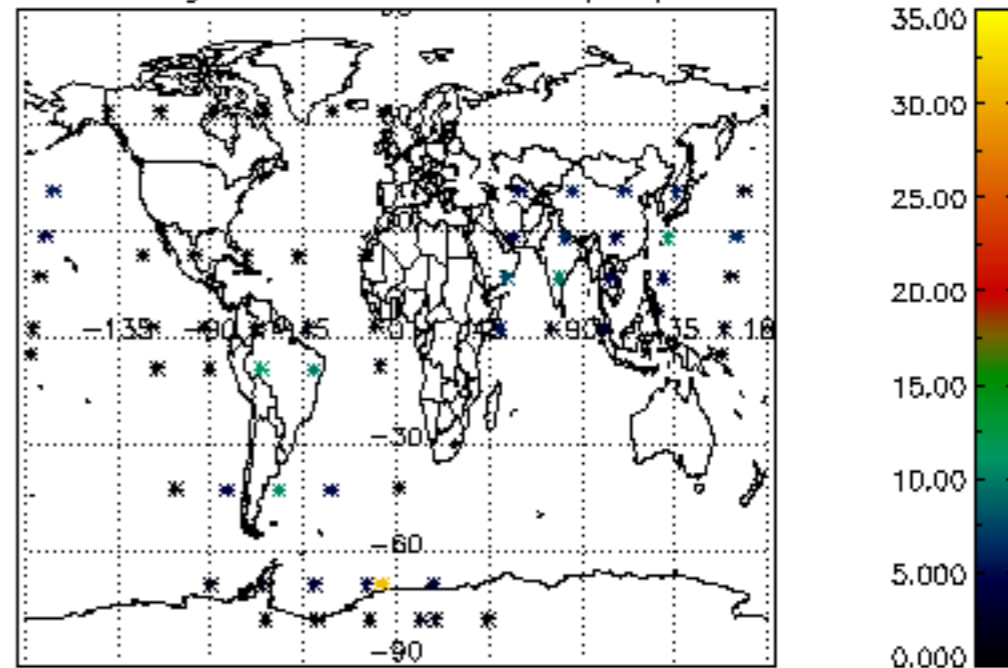
Percentage of datation errors per profile



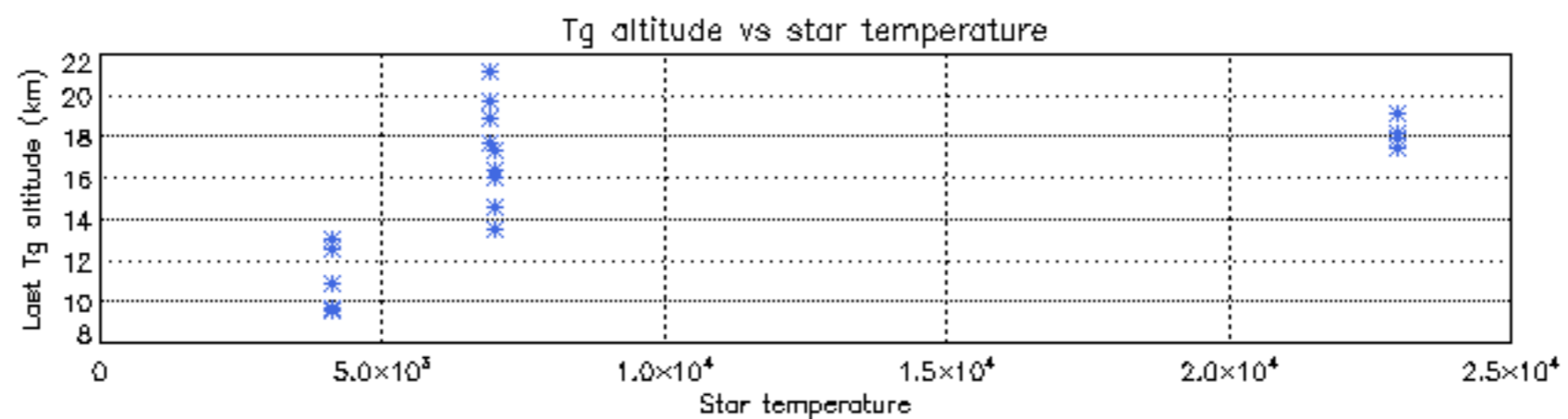
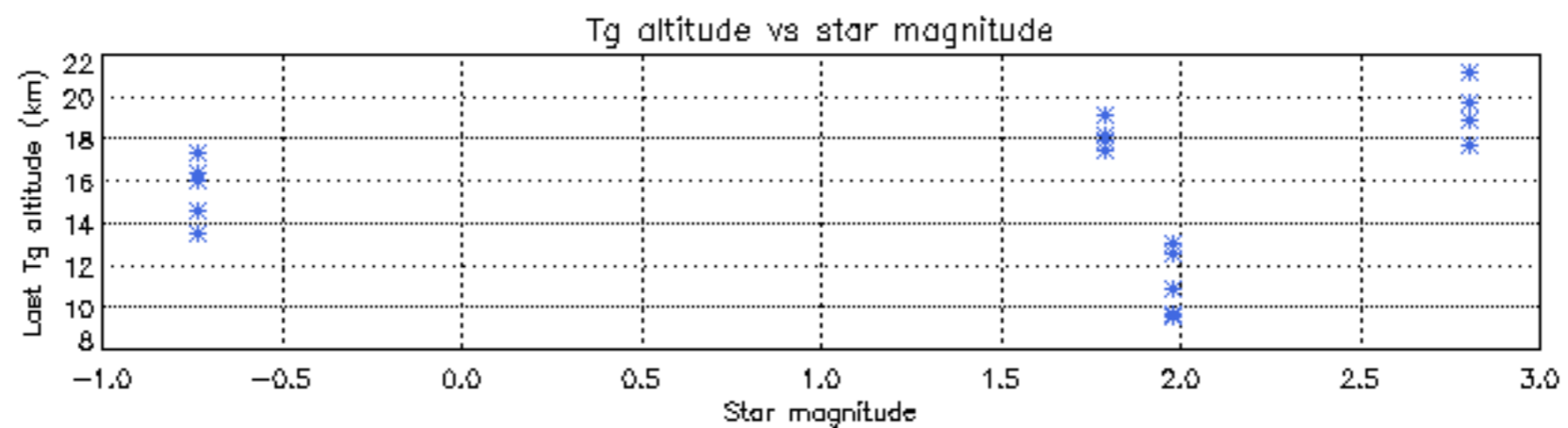
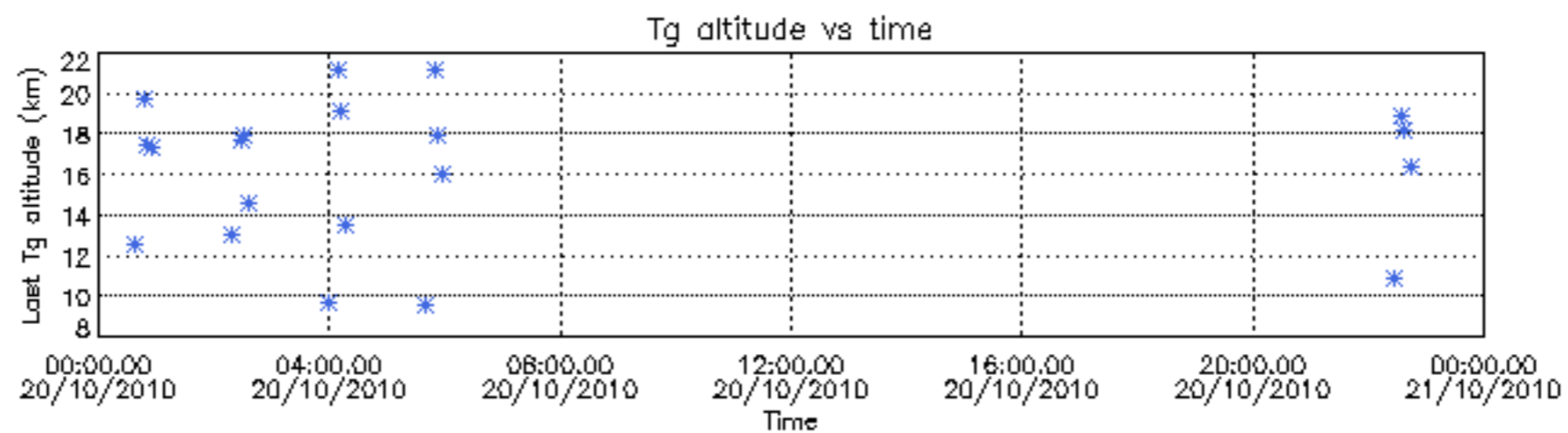
Percentage of star falling outside central band per profile



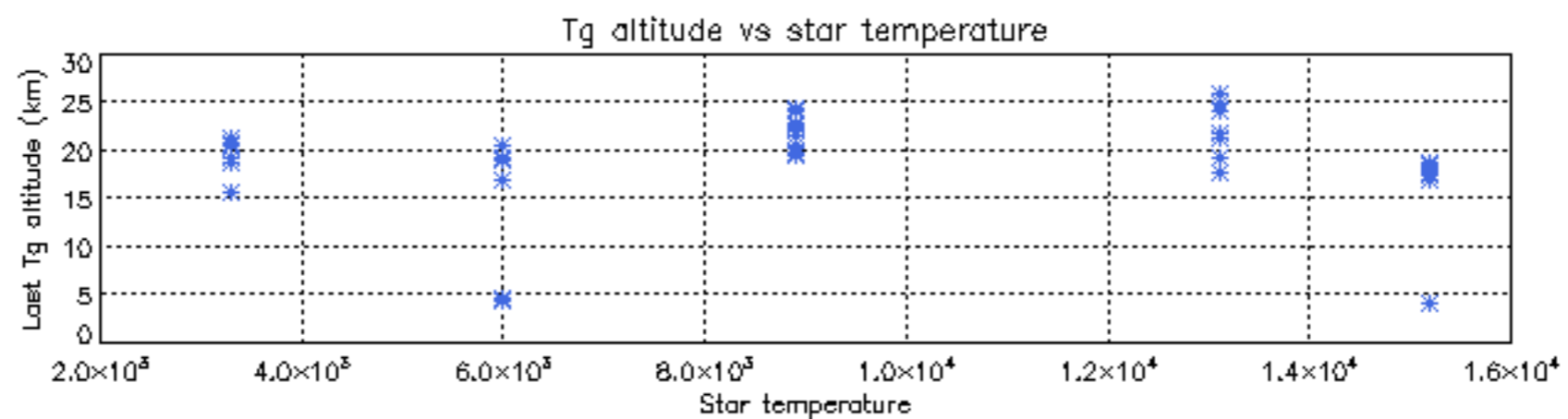
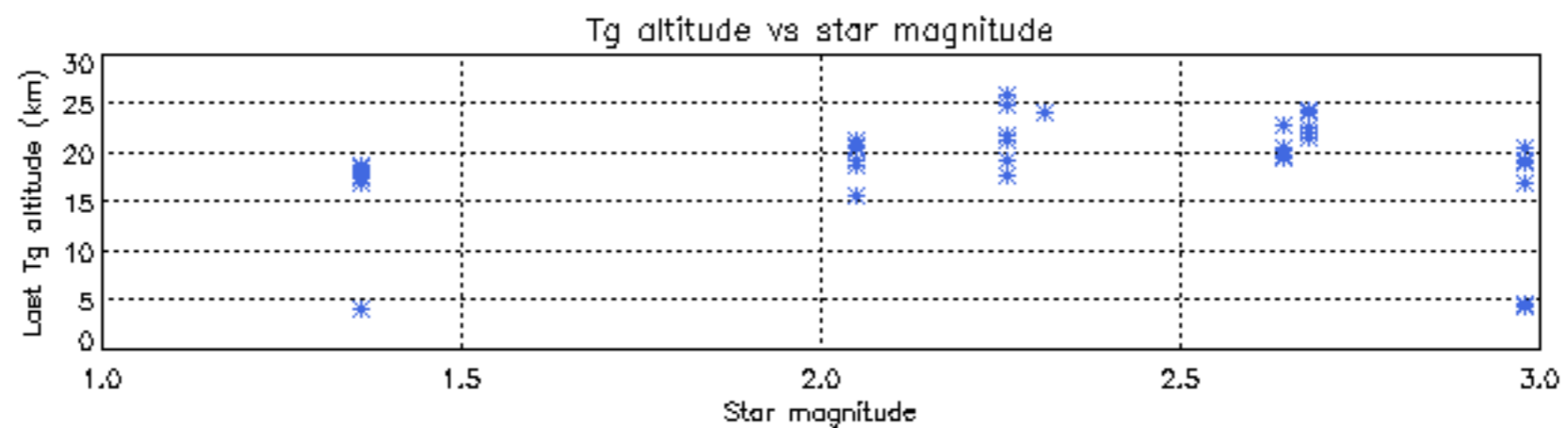
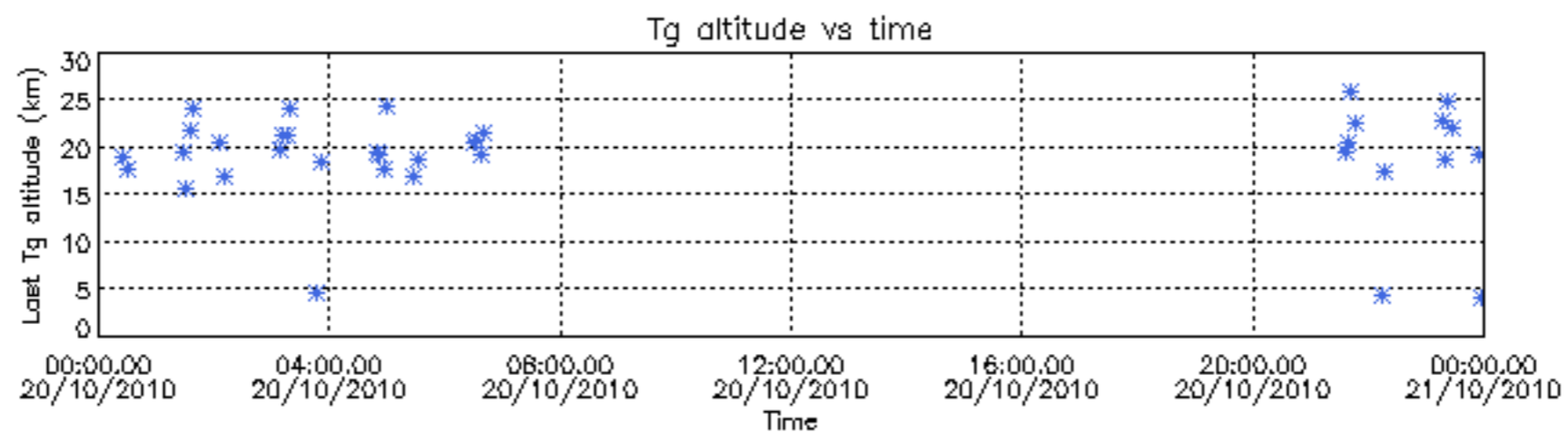
Percentage of saturation errors per profile

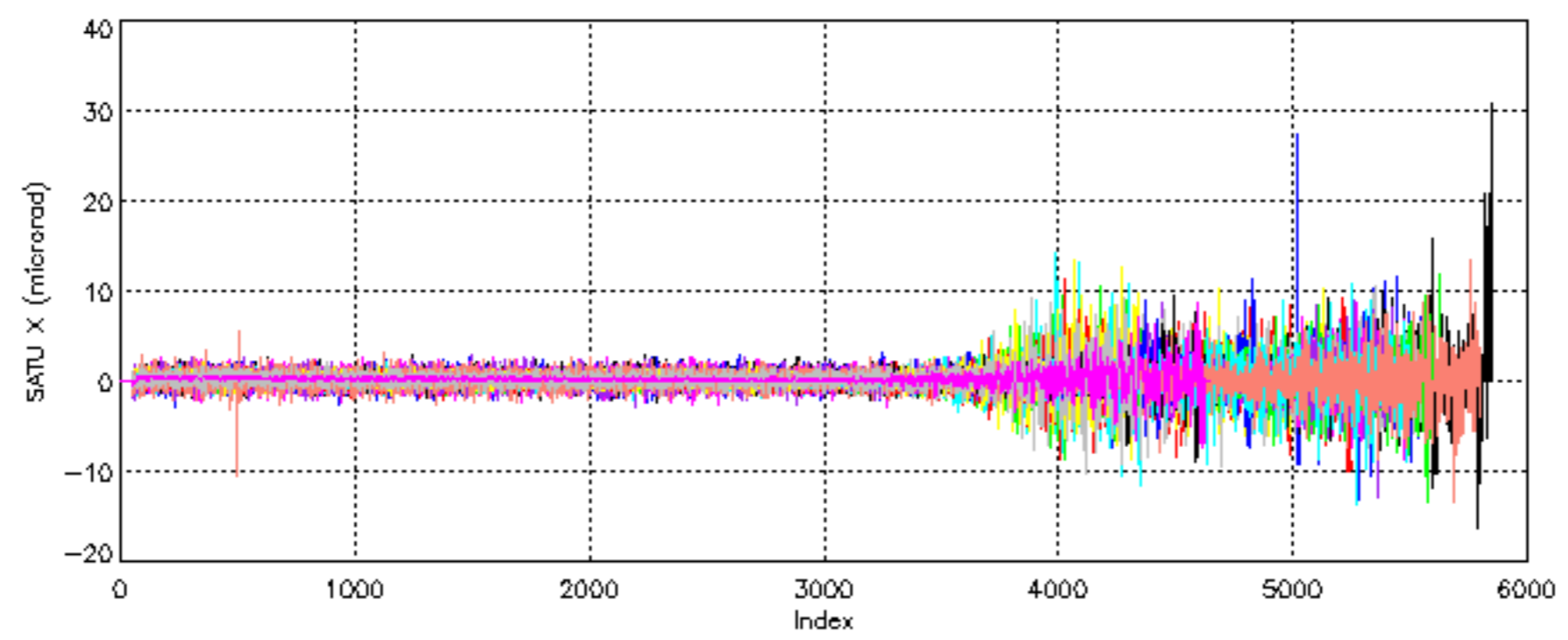


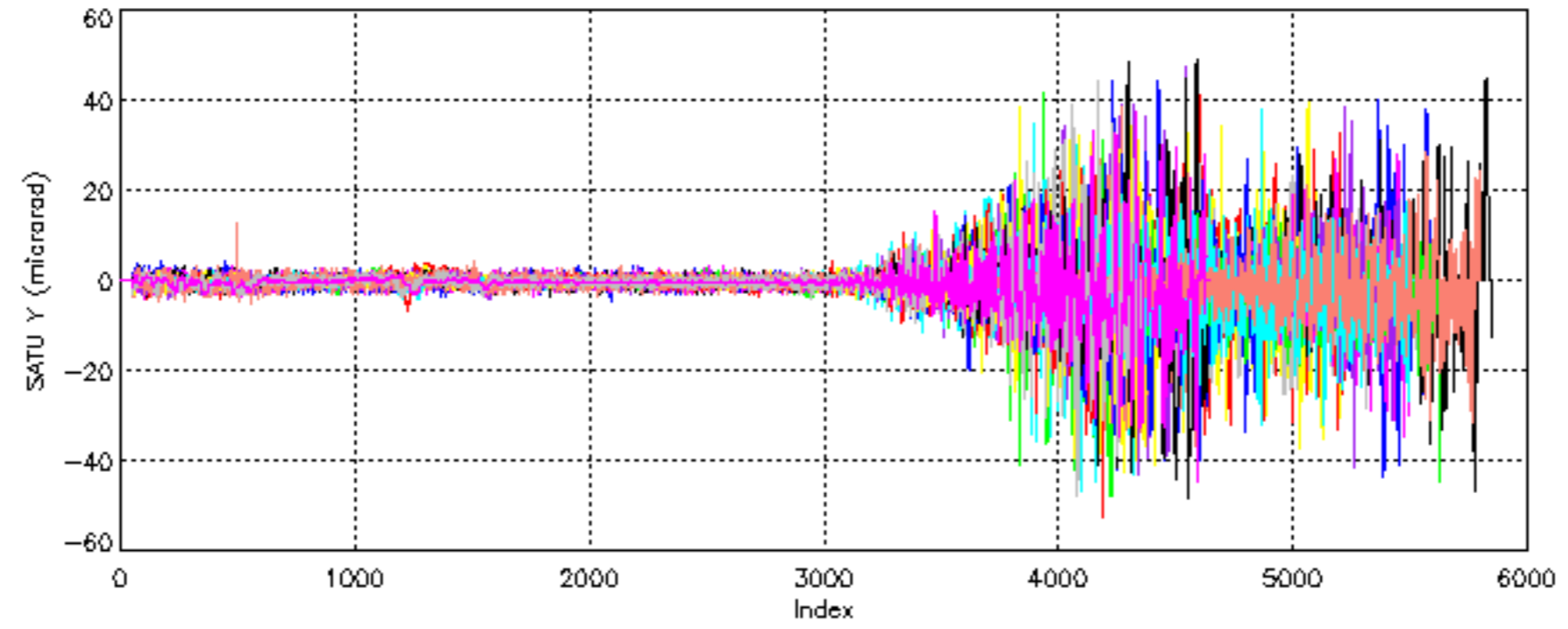
Tangent altitude at which the star is lost

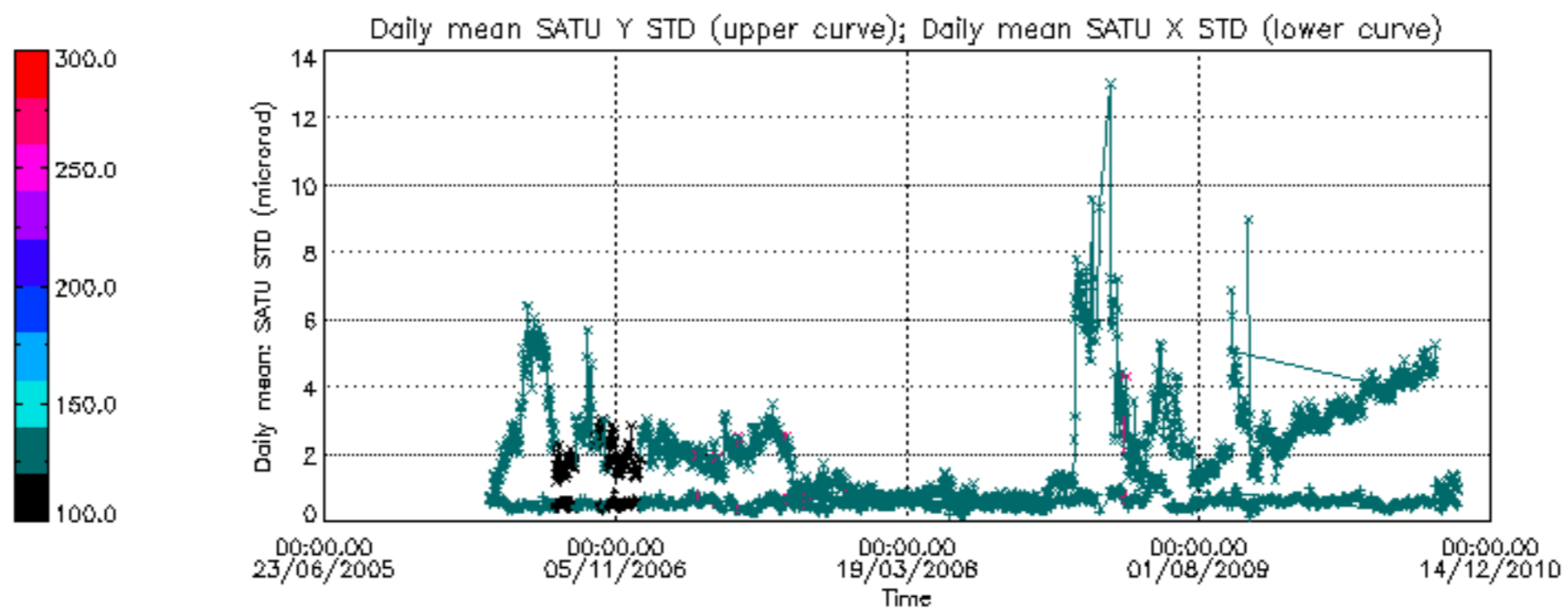


Tangent altitude at which the star is lost









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 4; 168.4; 01-OCT-2010 00:48:49; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;44889
 5; 300.4; 01-OCT-2010 00:51:01; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44889
 6; 912.7; 01-OCT-2010 01:01:14; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44889
 7; 1556.6; 01-OCT-2010 01:11:57; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;44889
 8; 2185.8; 01-OCT-2010 01:22:27; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44889
 9; 2435.7; 01-OCT-2010 01:26:37; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44889
 10; 2662.3; 01-OCT-2010 01:30:23; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;44889
 11; 2951.5; 01-OCT-2010 01:35:12; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44889
 12; 3032.9; 01-OCT-2010 01:36:34; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44889
 13; 4512.1; 01-OCT-2010 02:01:13; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44889
 14; 4600.3; 01-OCT-2010 02:02:41; Bright; 76.5; 17; 78Bet Gem ; 1.16; 4500;occ; 153; 0;44889

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 3; -203.5; 01-OCT-2010 02:23:13; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44889
 4; -43.4; 01-OCT-2010 02:25:53; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44889
 5; 169.1; 01-OCT-2010 02:29:26; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;44890
 6; 302.0; 01-OCT-2010 02:31:39; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44890
 7; 913.7; 01-OCT-2010 02:41:50; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44890
 8; 1557.0; 01-OCT-2010 02:52:34; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44890
 9; 2185.6; 01-OCT-2010 03:03:02; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44890
 10; 2435.4; 01-OCT-2010 03:07:12; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44890
 11; 2661.7; 01-OCT-2010 03:10:58; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44890
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 13; 3032.4; 01-OCT-2010 03:17:09; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44890

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 8; 305.2; 01-OCT-2010 05:52:54; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44892
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 10; 1557.4; 01-OCT-2010 06:13:46; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44892
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 6; 306.8; 01-OCT-2010 07:33:31; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44893

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5; 3031.4; 01-OCT-2010 08:18:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44893
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10; 6208.1; 01-OCT-2010 09:11:53; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44894
11; 6344.2; 01-OCT-2010 09:14:09; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44894
12; 6952.4; 01-OCT-2010 09:24:17; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44894
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6; 4601.8; 01-OCT-2010 10:25:42; Bright; 61.0; 17; 78Bet Gem ; 1.16; 4500;occ; 122; 0;44894
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 3; 103.5; 02-OCT-2010 20:23:18; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;44915
 4; 187.6; 02-OCT-2010 20:24:42; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;44915
 5; 340.0; 02-OCT-2010 20:27:15; Dark ; 58.5; 108; Alp Col ; 2.65; 15200;occ; 117; 0;44915
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 3; -22.3; 03-OCT-2010 01:23:00; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44917
 4; 105.9; 03-OCT-2010 01:25:08; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;44918
 5; 190.1; 03-OCT-2010 01:26:33; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;44918
 6; 344.7; 03-OCT-2010 01:29:07; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44918
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 13; 3021.8; 03-OCT-2010 02:13:44; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44918
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3; 5609.7; 03-OCT-2010 04:37:28; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44919
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14; 8980.3; 03-OCT-2010 05:33:39; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44919
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7; 935.8; 03-OCT-2010 06:40:46; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;44921
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3; 2178.4; 03-OCT-2010 20:26:16; Bright; 39.5; 140; 88Gam Peg ; 2.83; 26000;occ; 79; 0;44929
4; 2425.3; 03-OCT-2010 20:30:23; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44929
5; 2636.1; 03-OCT-2010 20:33:54; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;44929
6; 2942.3; 03-OCT-2010 20:39:00; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44929
7; 3017.8; 03-OCT-2010 20:40:15; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44929
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4; 2754.2; 07-OCT-2010 20:09:59; Bright; 54.5; 173; 4Bet Tri ; 3.00; 8900;occ; 109; 0;44986

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12; 6243.7; 21-OCT-2010 20:27:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45186
13; 6441.1; 21-OCT-2010 20:31:08; Dark ; 52.5; 2; Alp Car ;-0.74; 7000;occ; 105; 0;45186
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 1; -696.0; 21-OCT-2010 23:33:59; Dark ; 58.0; 48; 30Alp Hya ; 1.98; 4100;occ; 116; 0;45188
 2; 34.6; 21-OCT-2010 23:46:09; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;45189
 3; 209.6; 21-OCT-2010 23:49:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45189
 4; 406.9; 21-OCT-2010 23:52:21; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;45189
 5; 1084.3; 22-OCT-2010 00:03:39; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;45189
 6; 2311.7; 22-OCT-2010 00:24:06; Bright; 44.5; 105; 6Bet Ari ; 2.64; 8900;occ; 89; 0;45189
 7; 2531.8; 22-OCT-2010 00:27:46; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;45189
 8; 2717.1; 22-OCT-2010 00:30:52; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;45189
 9; 2858.4; 22-OCT-2010 00:33:13; Bright; 48.5; 79; 26Bet Per ; 2.31; 13100;occ; 97; 0;45189
10; 3020.8; 22-OCT-2010 00:35:55; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;45189
11; 4657.5; 22-OCT-2010 01:03:12; Bright; 45.0; 166; 17Eps Leo ; 2.98; 6000;occ; 90; 0;45189
12; 4862.6; 22-OCT-2010 01:06:37; Bright; 44.0; 22; 32Alp Leo ; 1.36; 15200;occ; 88; 0;45189
13; 5340.8; 22-OCT-2010 01:14:35; Dark ; 63.5; 48; 30Alp Hya ; 1.98; 4100;occ; 127; 0;45189
14; 5930.2; 22-OCT-2010 01:24:25; Dark ; 59.5; 132; 15Rho Pup ; 2.80; 6900;occ; 119; 0;45189
15; 6071.6; 22-OCT-2010 01:26:46; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;45189
16; 6246.4; 22-OCT-2010 01:29:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45189
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18; 7120.8; 22-OCT-2010 01:44:15; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;45189
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21; 8752.4; 22-OCT-2010 02:11:27; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;45189
22; 8893.2; 22-OCT-2010 02:13:48; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;45189
23; 9056.0; 22-OCT-2010 02:16:31; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;45189

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27;11967.6; 22-OCT-2010 03:05:02; Dark ; 59.0; 132; 15Rho Pup ; 2.80; 6900;occ; 118; 0;45189
28;12108.5; 22-OCT-2010 03:07:23; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;45189