

GOMOS Daily Report 08-NOV-2007

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	10NOV2007 05:59:57
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (08NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (09NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

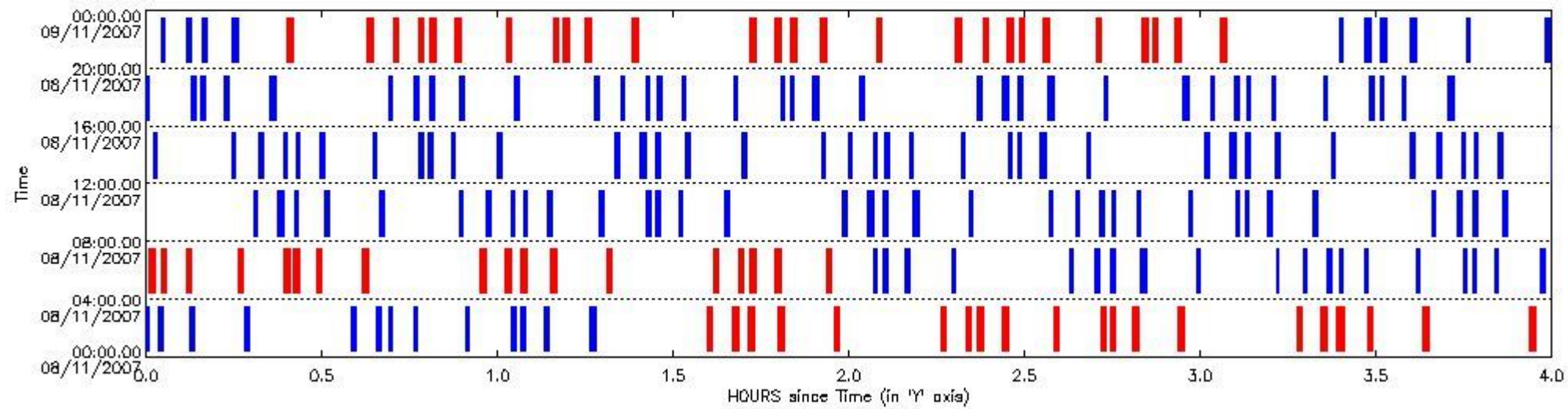
2.1 Level 0 products arrived in PCF (see template [here](#))

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
08-NOV-2007 01:35:47	MuVel	113	29744
08-NOV-2007 01:40:01	DSA1030	0	29745
08-NOV-2007 01:42:43	Gam2Vel	34	29745
08-NOV-2007 01:47:51	AlpCar	2	29745
08-NOV-2007 01:57:27	The1Eri	157	29745
08-NOV-2007 02:15:39	6BetAri	105	29745
08-NOV-2007 02:19:52	4BetTri	173	29745
08-NOV-2007 02:21:56	57Gam1And	73	29745
08-NOV-2007 02:26:08	23GamPer	160	29745
08-NOV-2007 02:34:59	1AlpUMi	49	29745
08-NOV-2007 02:42:57	50AlpUMa	36	29745
08-NOV-2007 02:44:35	48BetUMa	82	29745
08-NOV-2007 02:48:25	52PsiUMa	174	29745
08-NOV-2007 02:56:16	68DelLeo	96	29745
08-NOV-2007 03:16:24	MuVel	113	29745

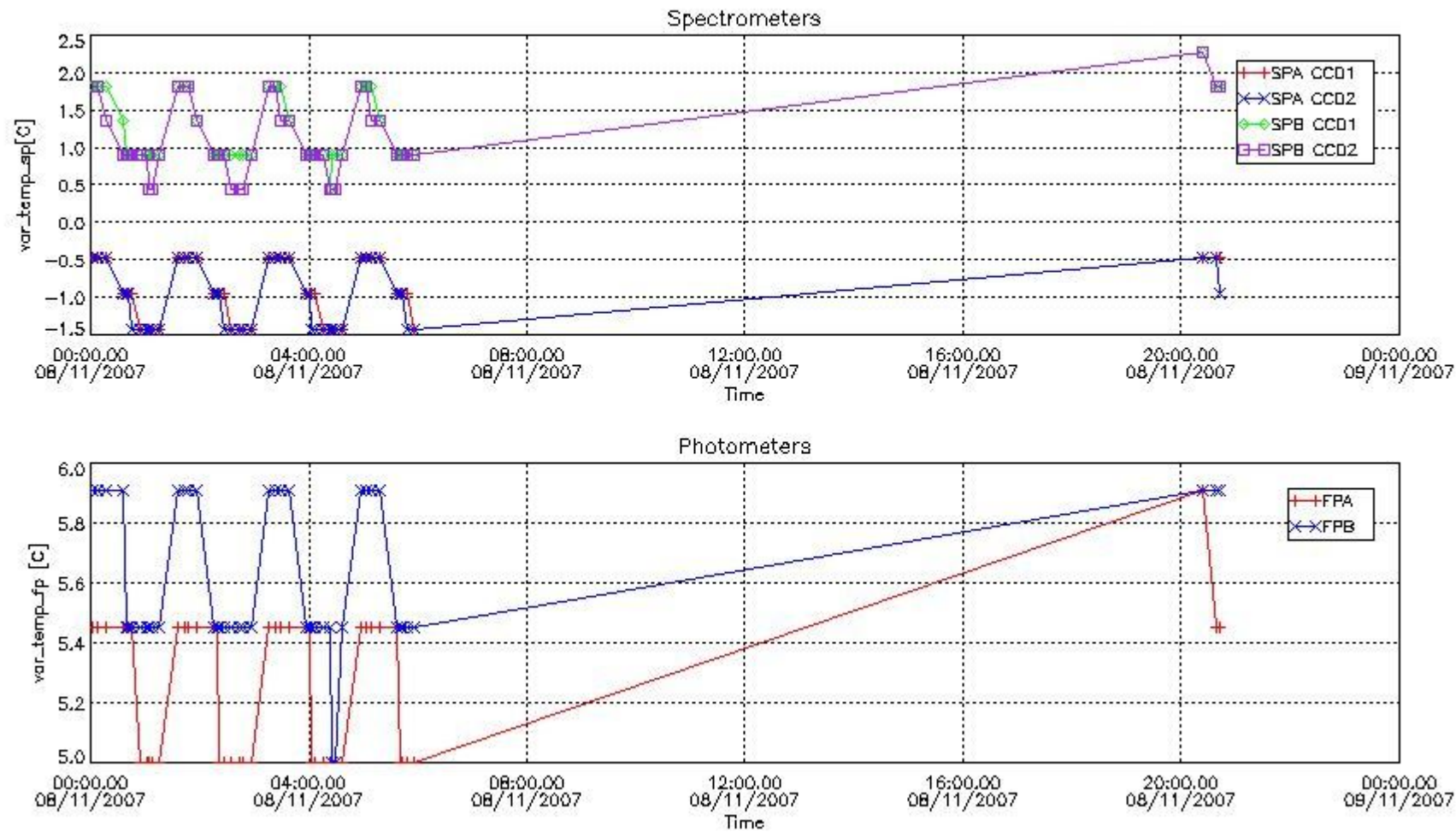
08-NOV-2007 03:20:38	DSA1030	0	29746
08-NOV-2007 03:23:19	Gam2Vel	34	29746
08-NOV-2007 03:28:28	AlpCar	2	29746
08-NOV-2007 03:38:03	The1Eri	157	29746
08-NOV-2007 03:56:15	6BetAri	105	29746
08-NOV-2007 04:00:28	4BetTri	173	29746
08-NOV-2007 04:02:32	57Gam1And	73	29746
08-NOV-2007 04:06:44	23GamPer	160	29746
08-NOV-2007 04:15:35	1AlpUMi	49	29746
08-NOV-2007 04:23:33	50AlpUMa	36	29746
08-NOV-2007 04:25:11	48BetUMa	82	29746
08-NOV-2007 04:29:01	52PsiUMa	174	29746
08-NOV-2007 04:36:52	68DelLeo	96	29746
08-NOV-2007 04:57:00	MuVel	113	29746
08-NOV-2007 05:01:15	DSA1030	0	29747
08-NOV-2007 05:03:56	Gam2Vel	34	29747
08-NOV-2007 05:09:05	AlpCar	2	29747
08-NOV-2007 05:18:39	The1Eri	157	29747
08-NOV-2007 05:36:51	6BetAri	105	29747
08-NOV-2007 05:41:04	4BetTri	173	29747
08-NOV-2007 05:43:07	57Gam1And	73	29747
08-NOV-2007 05:47:19	23GamPer	160	29747
08-NOV-2007 05:56:11	1AlpUMi	49	29747
08-NOV-2007 20:24:05	The1Eri	157	29756
08-NOV-2007 20:37:38	92AlpCet	94	29756
08-NOV-2007 20:42:14	6BetAri	105	29756
08-NOV-2007 20:46:26	4BetTri	173	29756
08-NOV-2007 20:48:29	57Gam1And	73	29756
08-NOV-2007 20:52:39	23GamPer	160	29756
08-NOV-2007 21:01:34	1AlpUMi	49	29756
08-NOV-2007 21:09:31	50AlpUMa	36	29756
08-NOV-2007 21:11:09	48BetUMa	82	29756
08-NOV-2007 21:15:00	52PsiUMa	174	29756
08-NOV-2007 21:22:54	68DelLeo	96	29756
08-NOV-2007 21:43:04	MuVel	113	29756
08-NOV-2007 21:47:22	DSA1030	0	29757
08-NOV-2007 21:50:05	Gam2Vel	34	29757
08-NOV-2007 21:55:11	AlpCar	2	29757
08-NOV-2007 22:04:41	The1Eri	157	29757
08-NOV-2007 22:18:14	92AlpCet	94	29757
08-NOV-2007 22:22:50	6BetAri	105	29757
08-NOV-2007 22:27:01	4BetTri	173	29757
08-NOV-2007 22:29:05	57Gam1And	73	29757
08-NOV-2007 22:33:15	23GamPer	160	29757
08-NOV-2007 22:42:10	1AlpUMi	49	29757
08-NOV-2007 22:50:07	50AlpUMa	36	29757
08-NOV-2007 22:51:45	48BetUMa	82	29757
08-NOV-2007 22:55:36	52PsiUMa	174	29757
08-NOV-2007 23:03:30	68DelLeo	96	29757

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_1PNPDE20071108_000208_000000472063_00131_29744_8328.N1	08-NOV-2007 00:02:08	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	29744	No
2	GOM_TRA_1PNPDE20071108_000717_000000602063_00131_29744_8329.N1	08-NOV-2007 00:07:17	Dark	59.500	2	Alp Car	-0.73600	7000.0	119	29744	No
3	GOM_TRA_1PNPDE20071108_001653_000000392063_00131_29744_8330.N1	08-NOV-2007 00:16:53	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29744	No
4	GOM_TRA_1PNPDE20071108_003506_000000362063_00131_29744_8331.N1	08-NOV-2007 00:35:06	Bright	36.000	105	6Bet Ari	2.6450	8900.0	72	29744	No
5	GOM_TRA_1PNPDE20071108_003919_000000382063_00131_29744_8332.N1	08-NOV-2007 00:39:19	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	29744	No

6	GOM_TRA_1PNPDE20071108_004122_000000392063_00131_29744_8333.N1	08-NOV-2007 00:41:22	Bright	39.000	73	57Gam1And	2.2600	13100.	78	29744	No
7	GOM_TRA_1PNPDE20071108_004535_000000392063_00131_29744_8334.N1	08-NOV-2007 00:45:35	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	29744	No
8	GOM_TRA_1PNPDE20071108_005425_000000372063_00131_29744_8335.N1	08-NOV-2007 00:54:25	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	29744	No
9	GOM_TRA_1PNPDE20071108_010224_000000402063_00131_29744_8336.N1	08-NOV-2007 01:02:24	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	29744	No
10	GOM_TRA_1PNPDE20071108_010401_000000402063_00131_29744_8337.N1	08-NOV-2007 01:04:01	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	29744	No
11	GOM_TRA_1PNPDE20071108_010751_000000592063_00131_29744_8338.N1	08-NOV-2007 01:07:51	Bright	59.000	174	52Psi UMa	3.0040	4400.0	118	29744	No
12	GOM_TRA_1PNPDE20071108_011542_000000592063_00131_29744_8339.N1	08-NOV-2007 01:15:42	Bright	59.000	96	68Del Leo	2.5600	9300.0	118	29744	No
13	GOM_TRA_1PNPDE20071108_013549_000000412063_00131_29744_8468.N1	08-NOV-2007 01:35:49	Dark	40.500	113	Mu Vel	2.6920	5000.0	81	29744	No
14	GOM_TRA_1PNPDE20071108_014245_000000462063_00132_29745_8469.N1	08-NOV-2007 01:42:45	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	29745	No
15	GOM_TRA_1PNPDE20071108_014754_000000502063_00132_29745_8470.N1	08-NOV-2007 01:47:54	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	29745	No
16	GOM_TRA_1PNPDE20071108_015729_000000392063_00132_29745_8471.N1	08-NOV-2007 01:57:29	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29745	No
17	GOM_TRA_1PNPDE20071108_021542_000000372063_00132_29745_8472.N1	08-NOV-2007 02:15:42	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	29745	No
18	GOM_TRA_1PNPDE20071108_021955_000000372063_00132_29745_8473.N1	08-NOV-2007 02:19:55	Bright	37.000	173	4Bet Tri	3.0040	8900.0	74	29745	No
19	GOM_TRA_1PNPDE20071108_022158_000000382063_00132_29745_8474.N1	08-NOV-2007 02:21:58	Bright	38.000	73	57Gam1And	2.2600	13100.	76	29745	No
20	GOM_TRA_1PNPDE20071108_022611_000000392063_00132_29745_8475.N1	08-NOV-2007 02:26:11	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	29745	No
21	GOM_TRA_1PNPDE20071108_023501_000000342063_00132_29745_8476.N1	08-NOV-2007 02:35:01	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	29745	No
22	GOM_TRA_1PNPDE20071108_024259_000000402063_00132_29745_8635.N1	08-NOV-2007 02:42:59	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	29745	No
23	GOM_TRA_1PNPDE20071108_024437_000000402063_00132_29745_8636.N1	08-NOV-2007 02:44:37	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	29745	No
24	GOM_TRA_1PNPDE20071108_024827_000000402063_00132_29745_8637.N1	08-NOV-2007 02:48:27	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	29745	No
25	GOM_TRA_1PNPDE20071108_025618_000000422063_00132_29745_8638.N1	08-NOV-2007 02:56:18	Bright	42.000	96	68Del Leo	2.5600	9300.0	84	29745	No
26	GOM_TRA_1PNPDE20071108_031626_000000392063_00132_29745_8639.N1	08-NOV-2007 03:16:26	Dark	39.000	113	Mu Vel	2.6920	5000.0	78	29745	No
27	GOM_TRA_1PNPDE20071108_032322_000000462063_00133_29746_8640.N1	08-NOV-2007 03:23:22	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	29746	No
28	GOM_TRA_1PNPDE20071108_032830_000000492063_00133_29746_8641.N1	08-NOV-2007 03:28:30	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	29746	No
29	GOM_TRA_1PNPDE20071108_033805_000000402063_00133_29746_8642.N1	08-NOV-2007 03:38:05	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	29746	No
30	GOM_TRA_1PNPDE20071108_035618_000000382063_00133_29746_8643.N1	08-NOV-2007 03:56:18	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	29746	No
31	GOM_TRA_1PNPDE20071108_040030_000000372063_00133_29746_8644.N1	08-NOV-2007 04:00:30	Bright	37.000	173	4Bet Tri	3.0040	8900.0	74	29746	No
32	GOM_TRA_1PNPDE20071108_040234_000000402063_00133_29746_8645.N1	08-NOV-2007 04:02:34	Bright	39.500	73	57Gam1And	2.2600	13100.	79	29746	No
33	GOM_TRA_1PNPDE20071108_040646_000000402063_00133_29746_8646.N1	08-NOV-2007 04:06:46	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	29746	No
34	GOM_TRA_1PNPDE20071108_041537_000000332063_00133_29746_8647.N1	08-NOV-2007 04:15:37	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29746	No
35	GOM_TRA_1PNPDE20071108_042335_000000402063_00133_29746_8784.N1	08-NOV-2007 04:23:35	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	29746	No
36	GOM_TRA_1PNPDE20071108_042513_000000512063_00133_29746_8785.N1	08-NOV-2007 04:25:13	Bright	50.500	82	48Bet UMa	2.3650	10600.	101	29746	No
37	GOM_TRA_1PNPDE20071108_042903_000000412063_00133_29746_8786.N1	08-NOV-2007 04:29:03	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	29746	No
38	GOM_TRA_1PNPDE20071108_043654_000000422063_00133_29746_8787.N1	08-NOV-2007 04:36:54	Bright	41.500	96	68Del Leo	2.5600	9300.0	83	29746	No
39	GOM_TRA_1PNPDE20071108_045702_000000432063_00133_29746_8788.N1	08-NOV-2007 04:57:02	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	29746	No
40	GOM_TRA_1PNPDE20071108_050359_000000472063_00134_29747_8789.N1	08-NOV-2007 05:03:59	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	29747	No
41	GOM_TRA_1PNPDE20071108_050907_000000492063_00134_29747_8790.N1	08-NOV-2007 05:09:07	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	29747	No
42	GOM_TRA_1PNPDE20071108_051841_000000382063_00134_29747_8791.N1	08-NOV-2007 05:18:41	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	29747	No
43	GOM_TRA_1PNPDE20071108_053654_000000372063_00134_29747_8792.N1	08-NOV-2007 05:36:54	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	29747	No
44	GOM_TRA_1PNPDE20071108_054106_000000382063_00134_29747_8793.N1	08-NOV-2007 05:41:06	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	29747	No
45	GOM_TRA_1PNPDE20071108_054310_000000382063_00134_29747_8794.N1	08-NOV-2007 05:43:10	Bright	38.000	73	57Gam1And	2.2600	13100.	76	29747	No
46	GOM_TRA_1PNPDE20071108_054722_000000402063_00134_29747_8795.N1	08-NOV-2007 05:47:22	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	29747	No
47	GOM_TRA_1PNPDE20071108_055613_000000372063_00134_29747_8796.N1	08-NOV-2007 05:56:13	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29747	No
48	GOM_TRA_1PNPDE20071108_202407_000000392063_00143_29756_9308.N1	08-NOV-2007 20:24:07	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29756	No
49	GOM_TRA_1PNPDE20071108_203740_000000542063_00143_29756_9309.N1	08-NOV-2007 20:37:40	Tw_i_and_stray	53.500	94	92Alp Cet	2.5260	3100.0	107	29756	No
50	GOM_TRA_1PNPDE20071108_204217_000000382063_00143_29756_9310.N1	08-NOV-2007 20:42:17	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	29756	No

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



4. Overview of dark signal processing per product

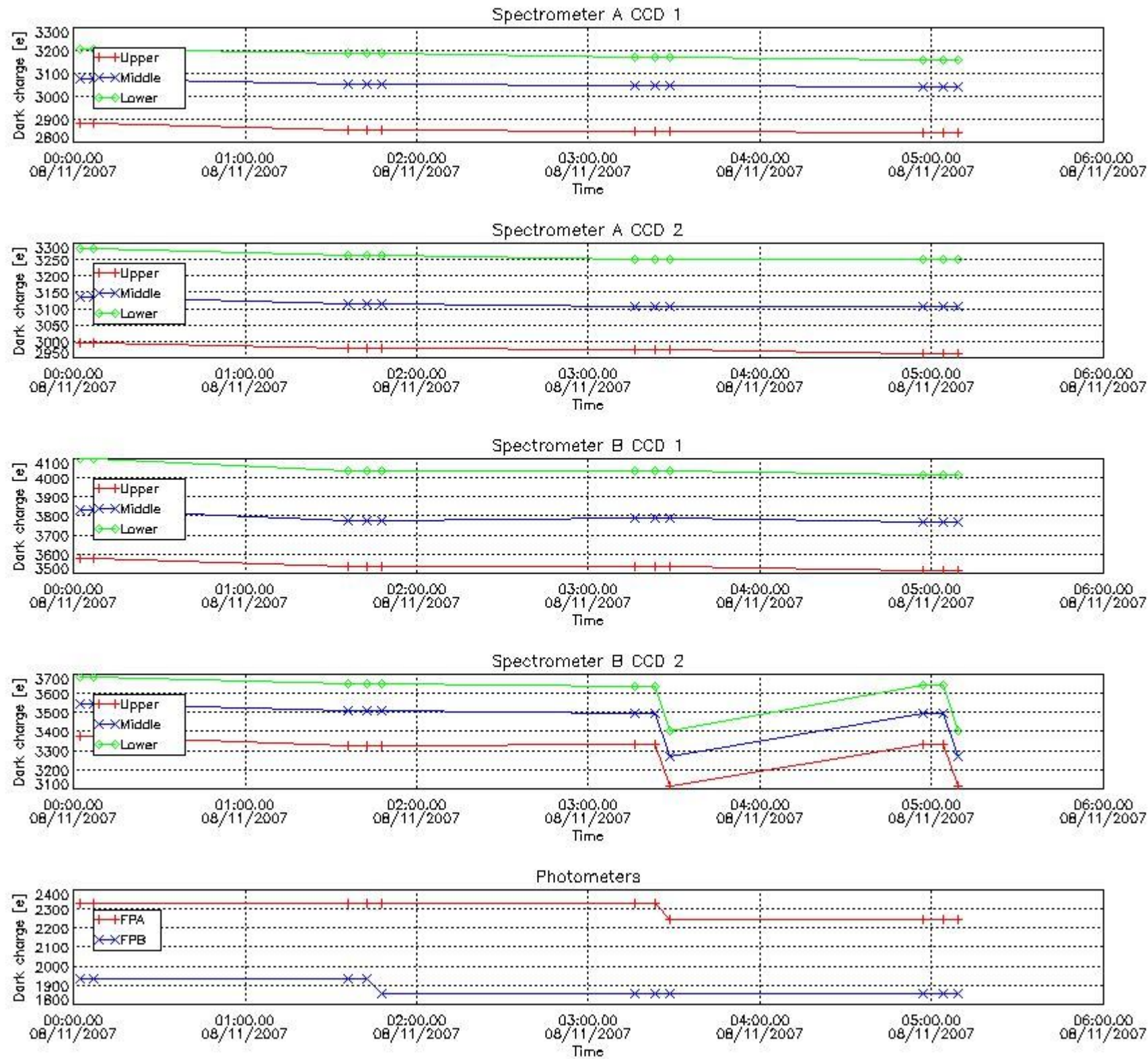
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20071108_202407_000000392063_00143_29756_9308.N1	DC map used
GOM_TRA_1PNPDE20071108_203740_000000542063_00143_29756_9309.N1	DC map used
GOM_TRA_1PNPDE20071108_204217_000000382063_00143_29756_9310.N1	DC map used

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



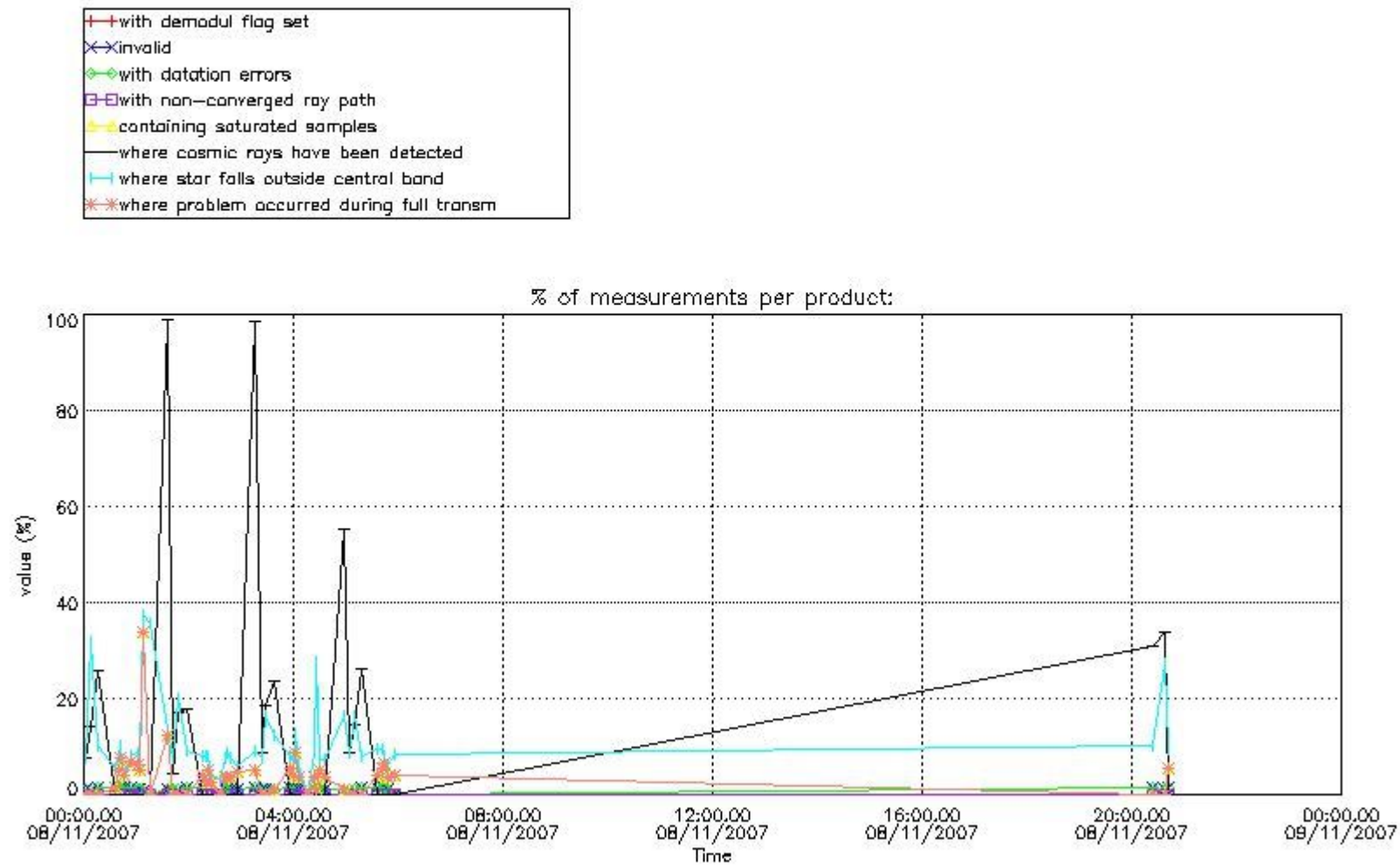
5. Demodulation flag and quality information monitoring

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.

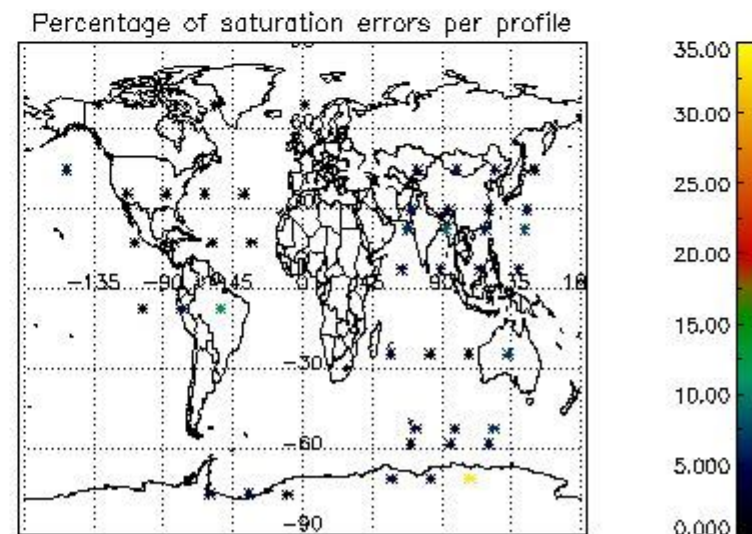
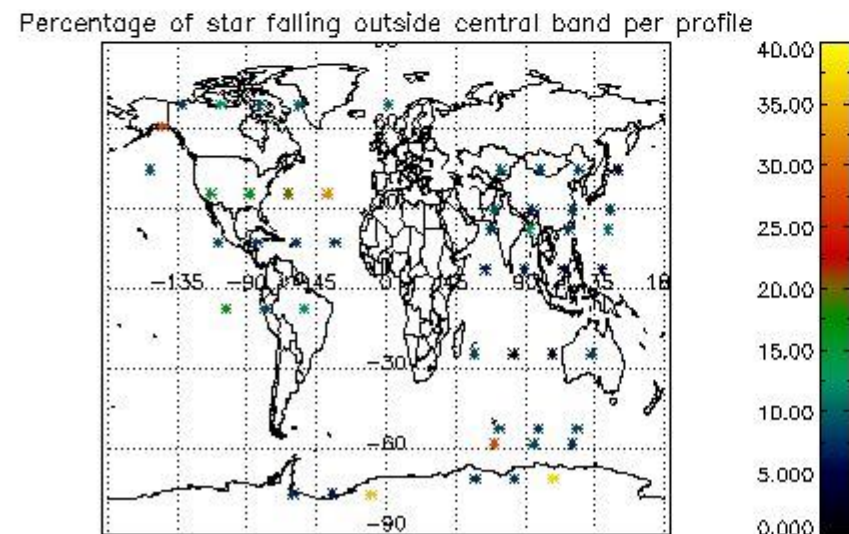
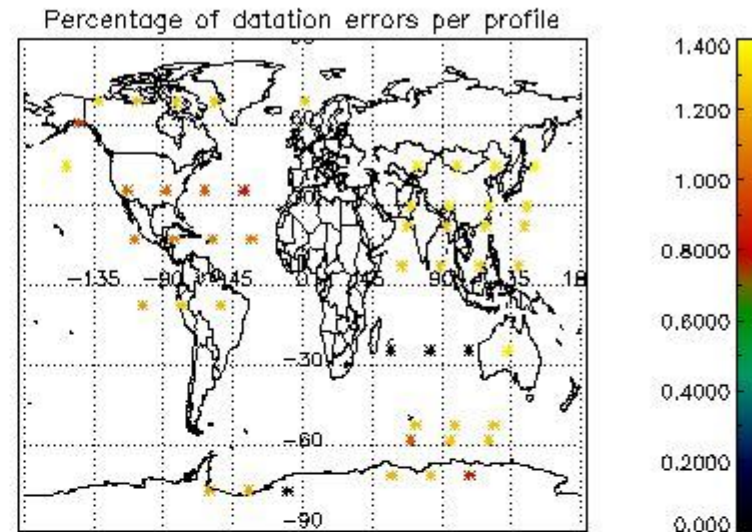
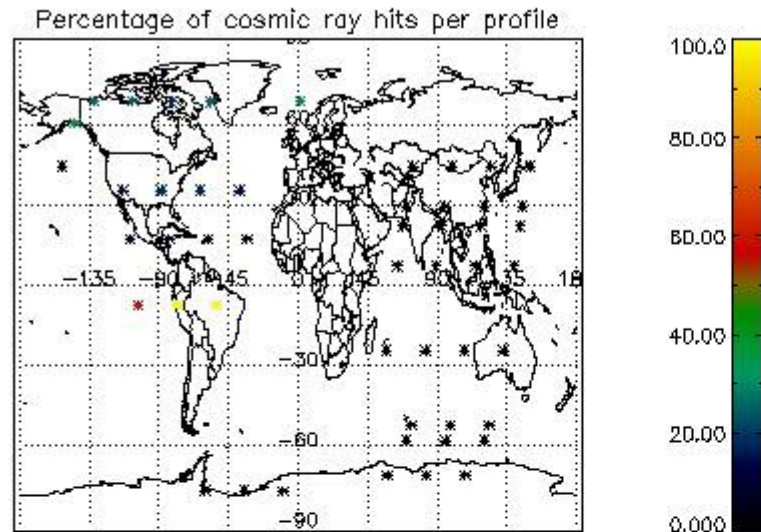
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)



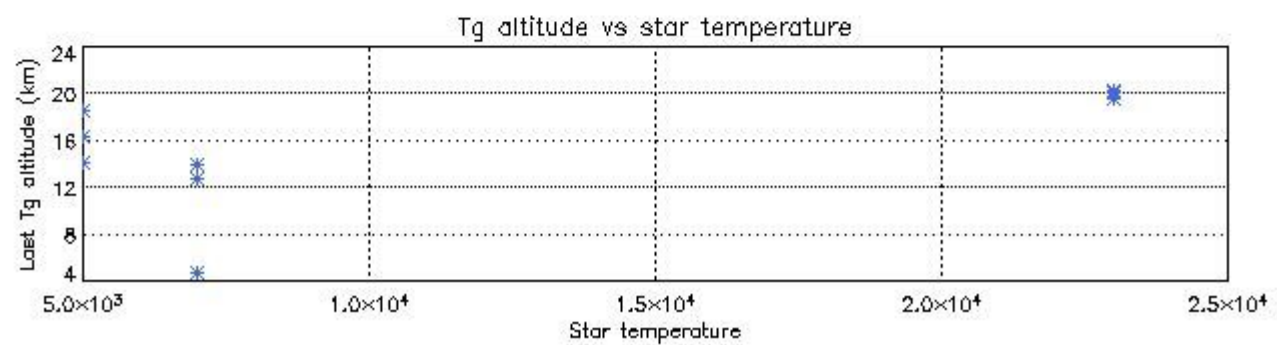
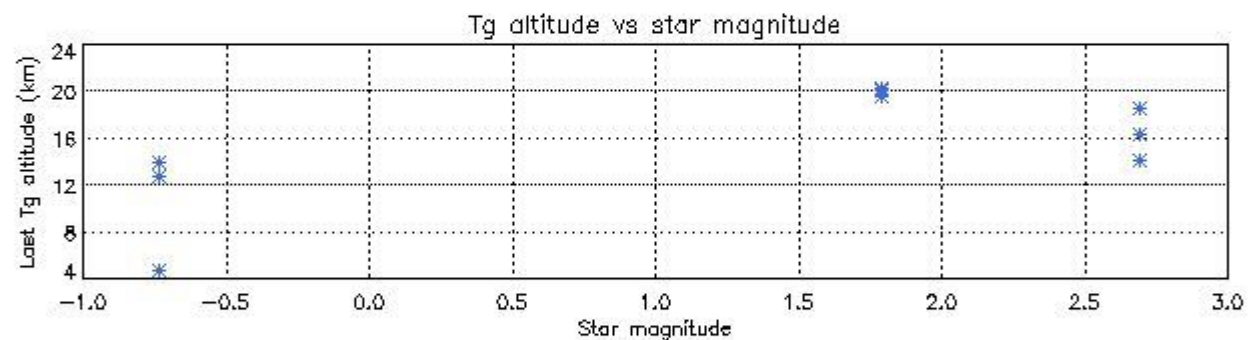
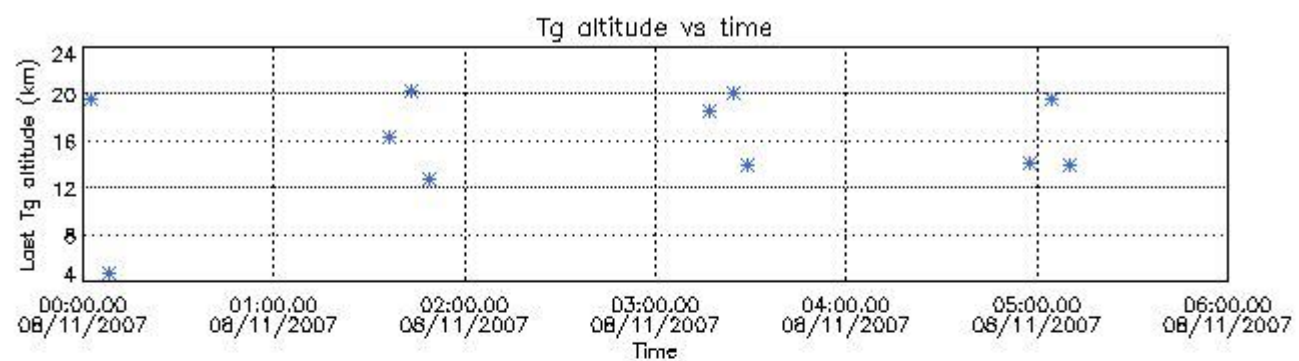
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.767	19.420	NaN
St. deviation:	4.6463	4.7454	NaN
Maximum:	20.238	27.406	NaN
Minimum:	4.7474	4.6329	NaN
Number of data:	11.000	33.000	NaN

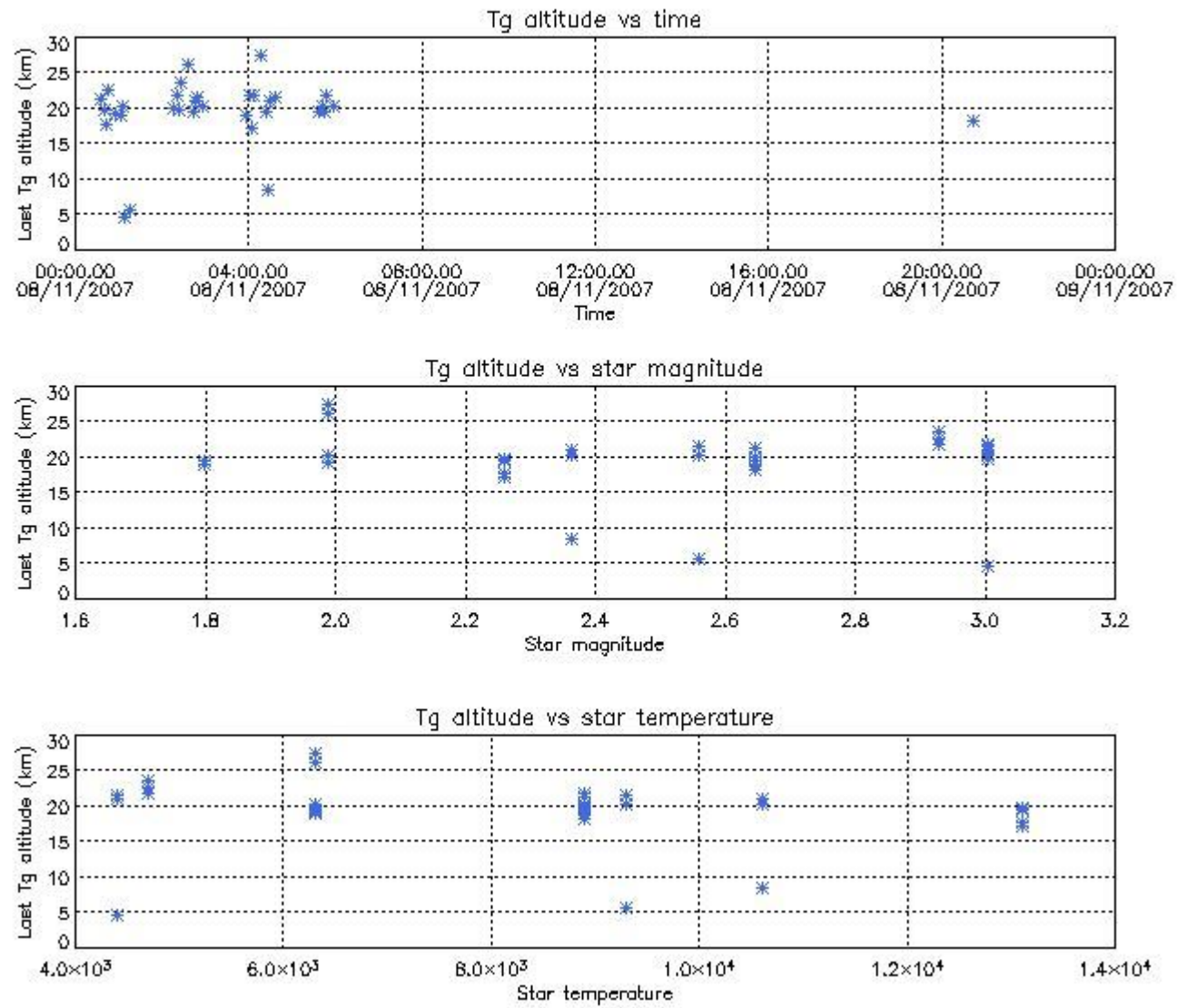
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

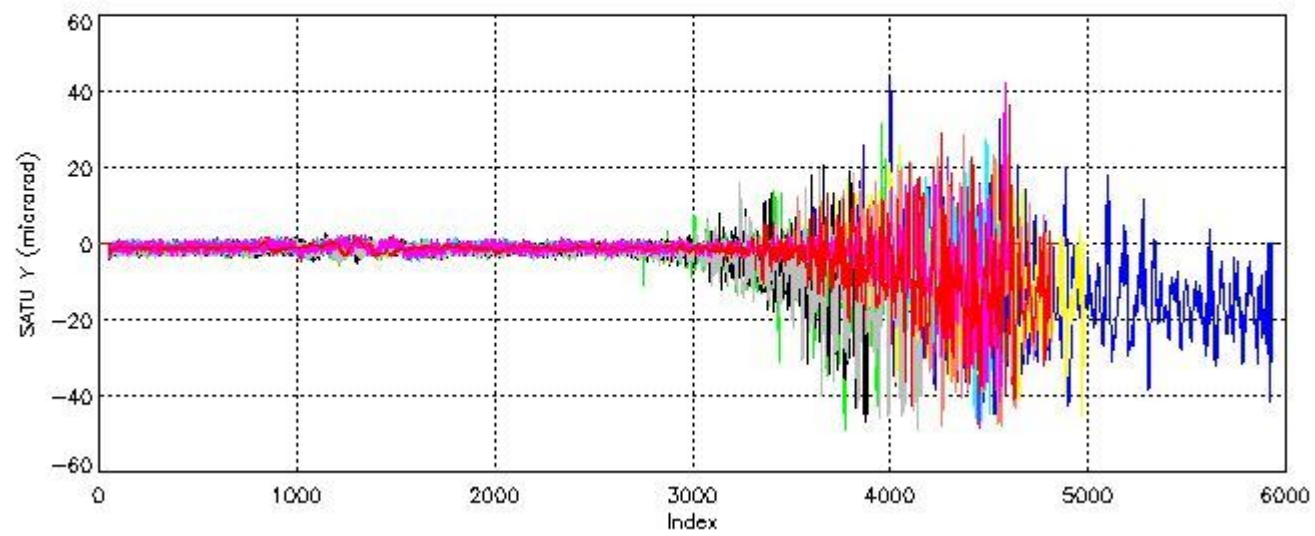
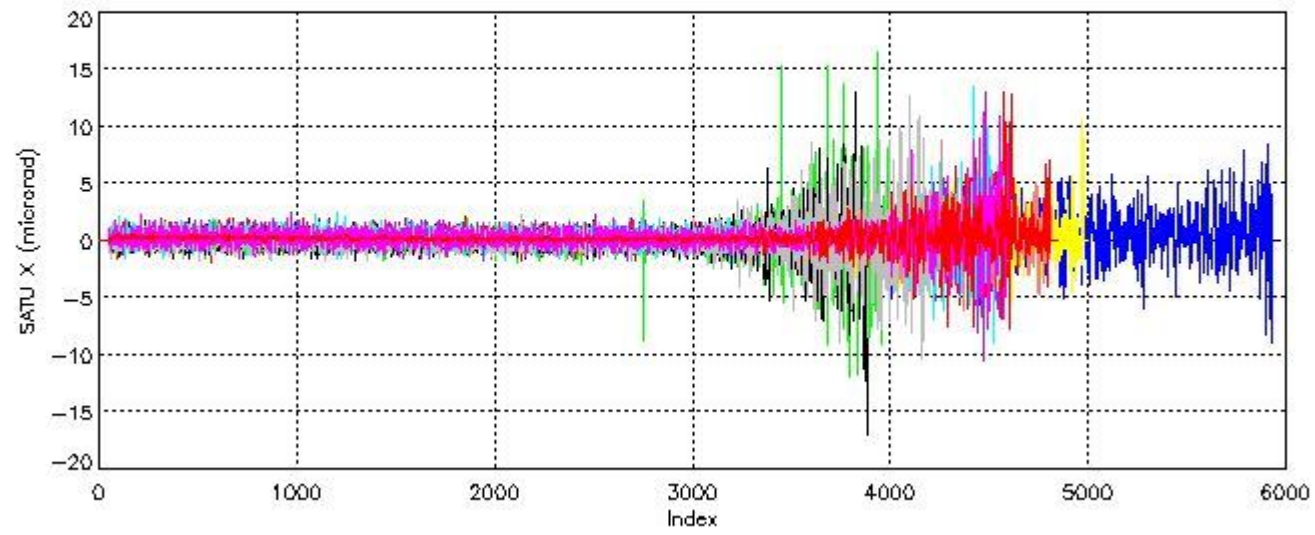


7. Star Acquisition and Tracking Unit (SATU)

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:	0.19956	-1.1645	0.20210	-1.2897
St. deviation:	0.39140	0.76121	0.84763	1.2836
Maximum:	2.4000	1.9000	5.6000	4.9000
Minimum:	-2.0000	-4.7000	-4.7000	-7.6000

Number of data:	11500.	11500.	28900.	28900.
-----------------	--------	--------	--------	--------

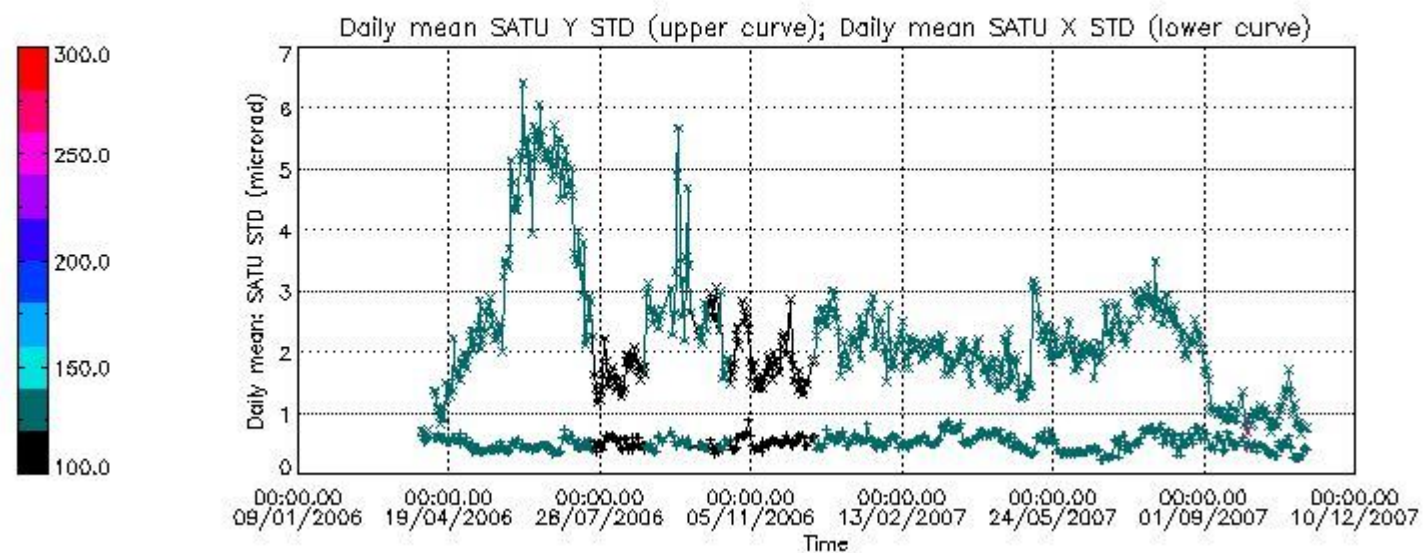
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

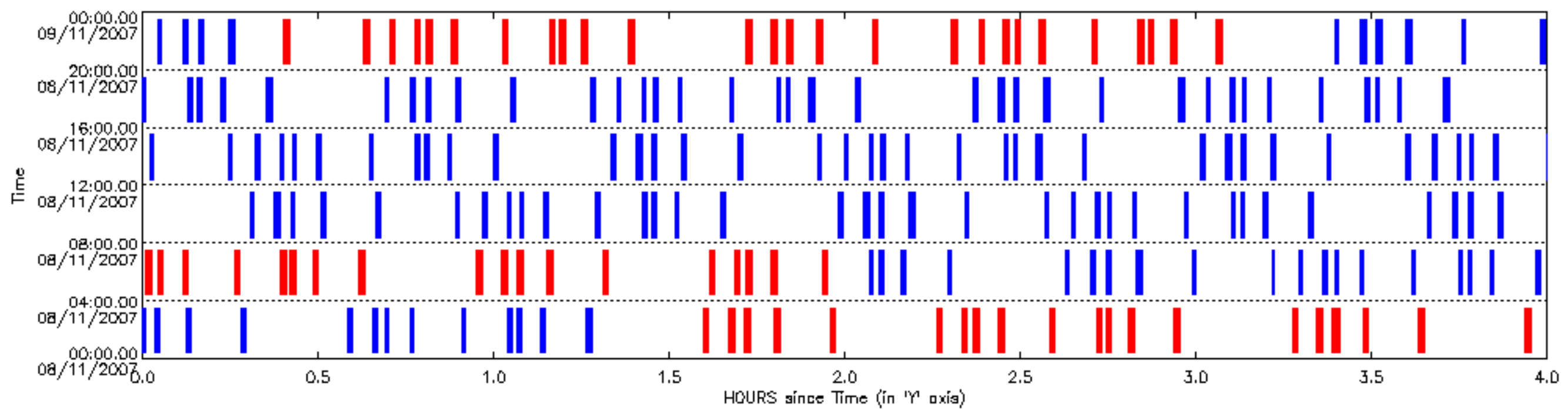
Lower curve: STD of SATU X axis

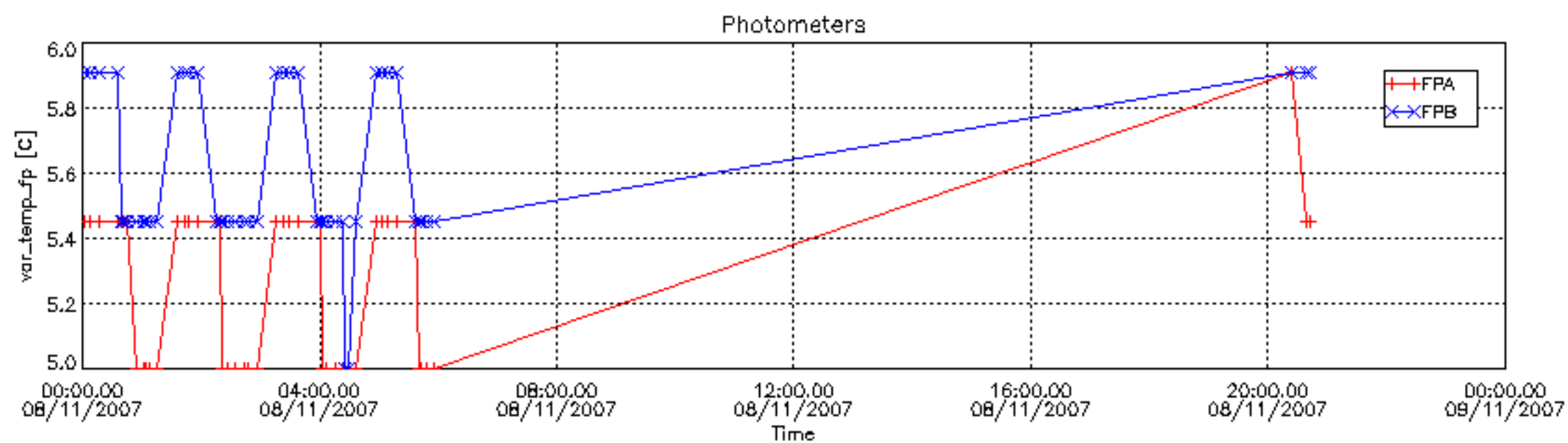
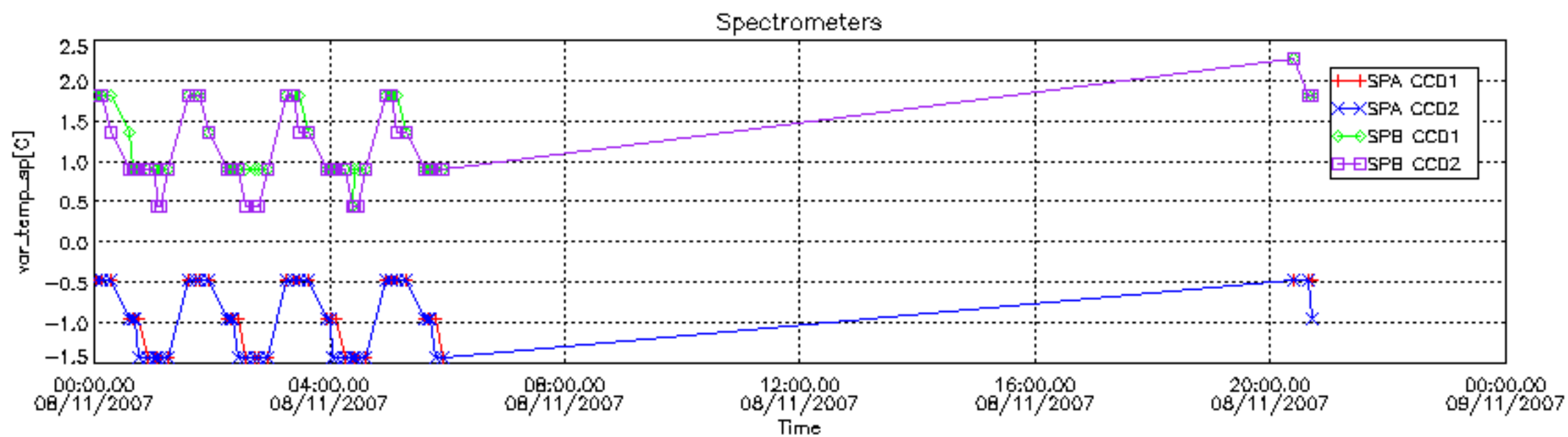


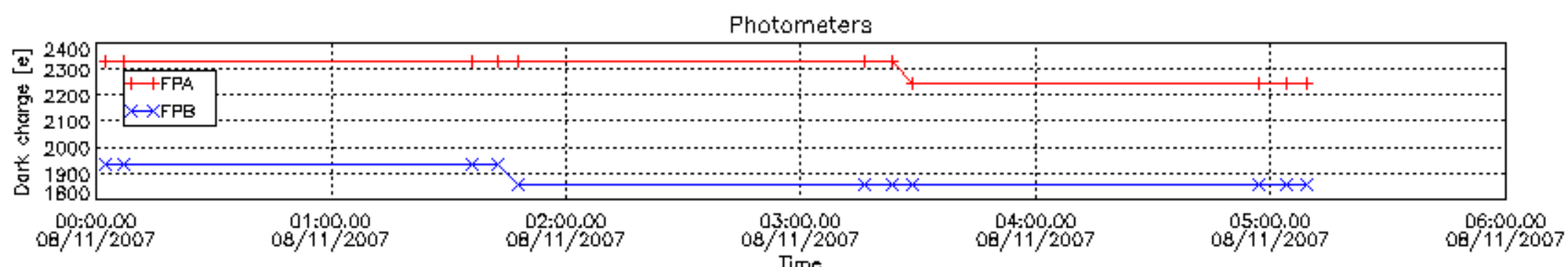
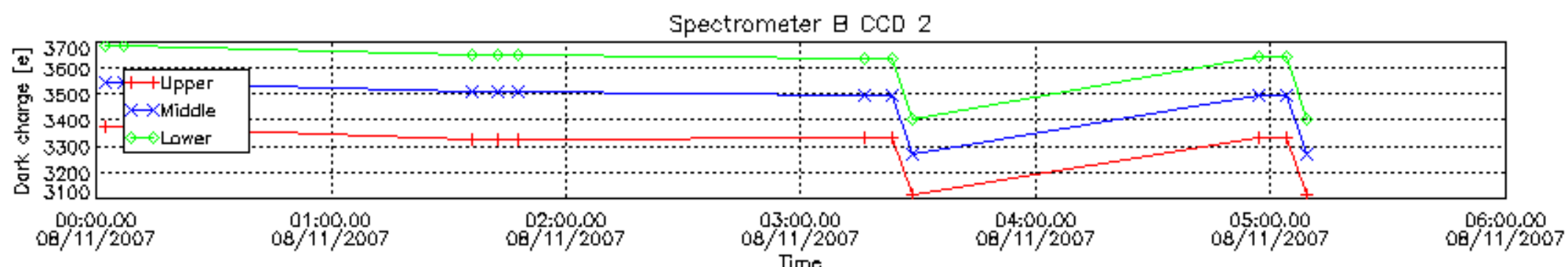
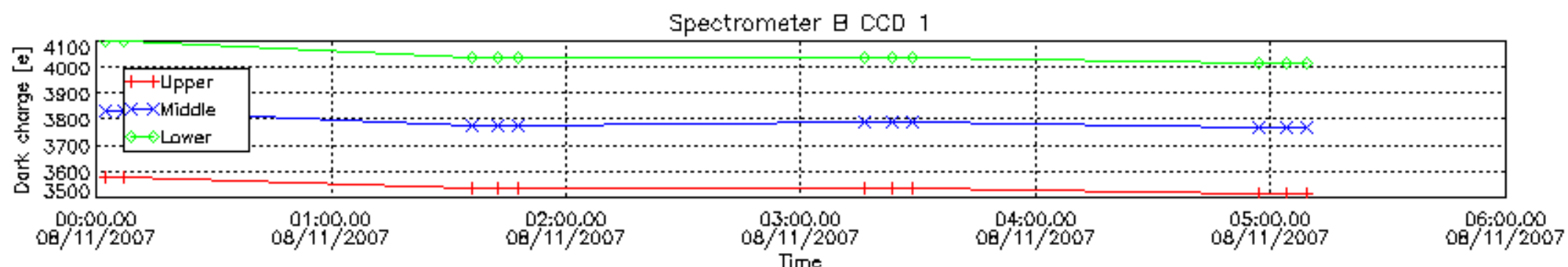
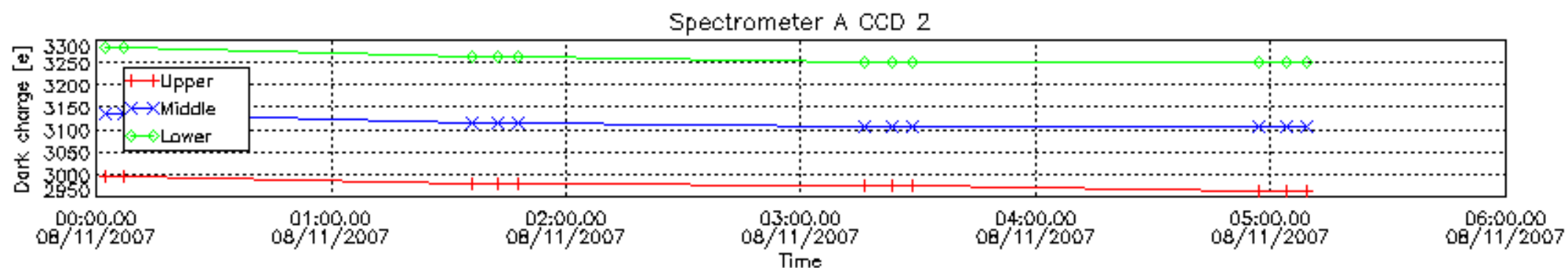
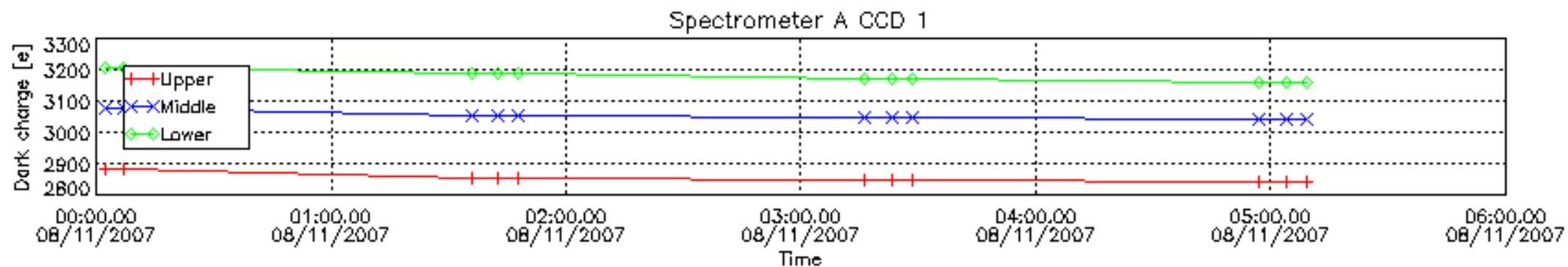
8. Auxiliary Data Files used for the production reported in section 2.4

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

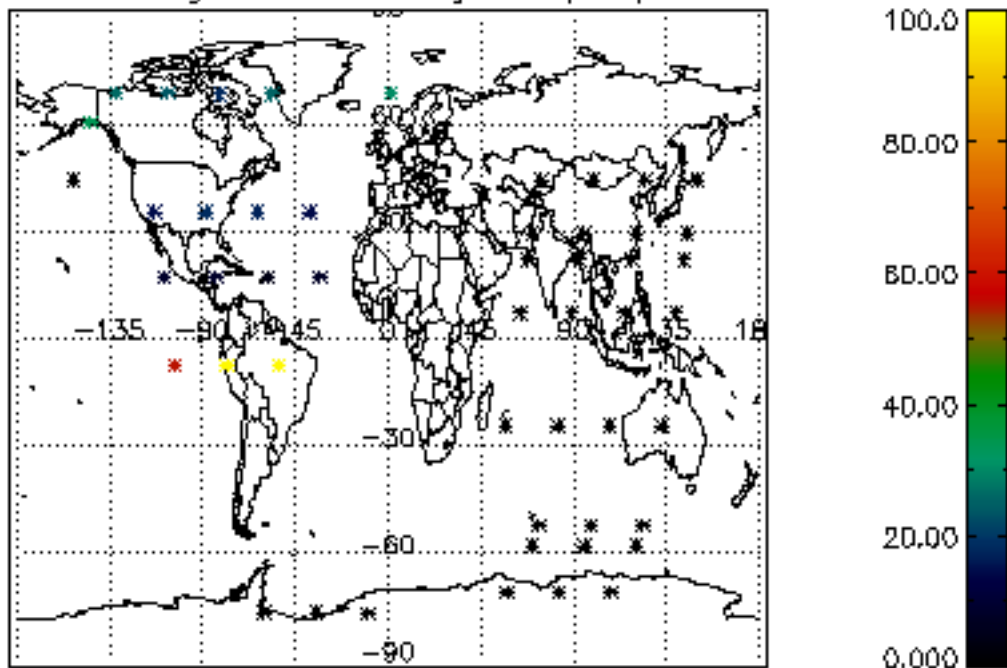
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071029_132344_20071028_000000_20100101_000000	1	08-NOV-2007 00:02:08
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-NOV-2007 00:02:08
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-NOV-2007 00:02:08
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-NOV-2007 00:02:08
ECMWF_FILE	AUX_ECF_AXNECM20071107_063110_20071107_210000_20071108_090000	1	08-NOV-2007 00:02:08
ECMWF_FILE	AUX_ECF_AXNECM20071107_183110_20071108_030000_20071108_150000	35	08-NOV-2007 04:23:35
ECMWF_FILE	AUX_ECF_AXNECM20071108_063112_20071108_150000_20071109_030000	48	08-NOV-2007 20:24:07
OPTIONAL_ECMWF_FILE	MISSING	1	08-NOV-2007 00:02:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071107_215809_000060572063_00129_29742_4515.N1	1	08-NOV-2007 00:02:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071107_233906_000057382063_00130_29743_4516.N1	13	08-NOV-2007 01:35:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071108_012003_000041442063_00131_29744_4517.N1	22	08-NOV-2007 02:42:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071108_023426_000057382063_00132_29745_4518.N1	35	08-NOV-2007 04:23:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071108_201705_000041442063_00143_29756_4520.N1	48	08-NOV-2007 20:24:07



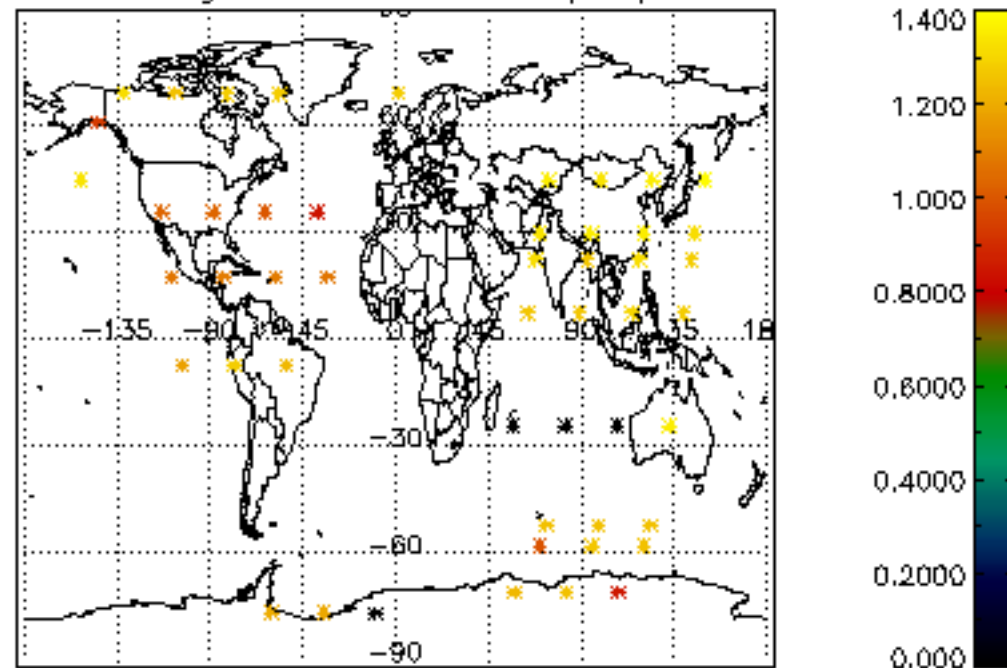




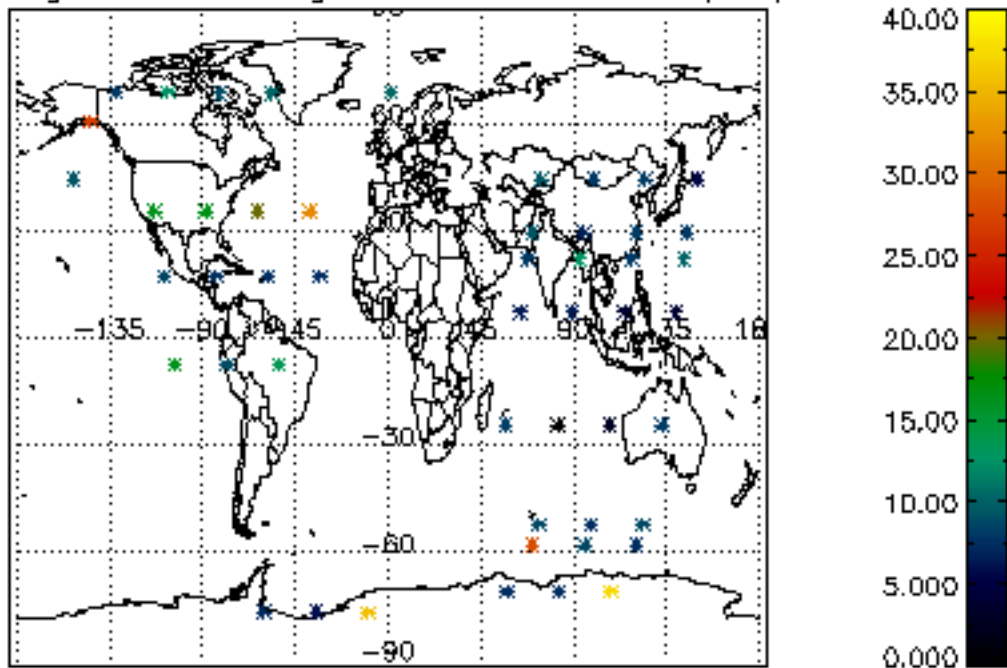
Percentage of cosmic ray hits per profile



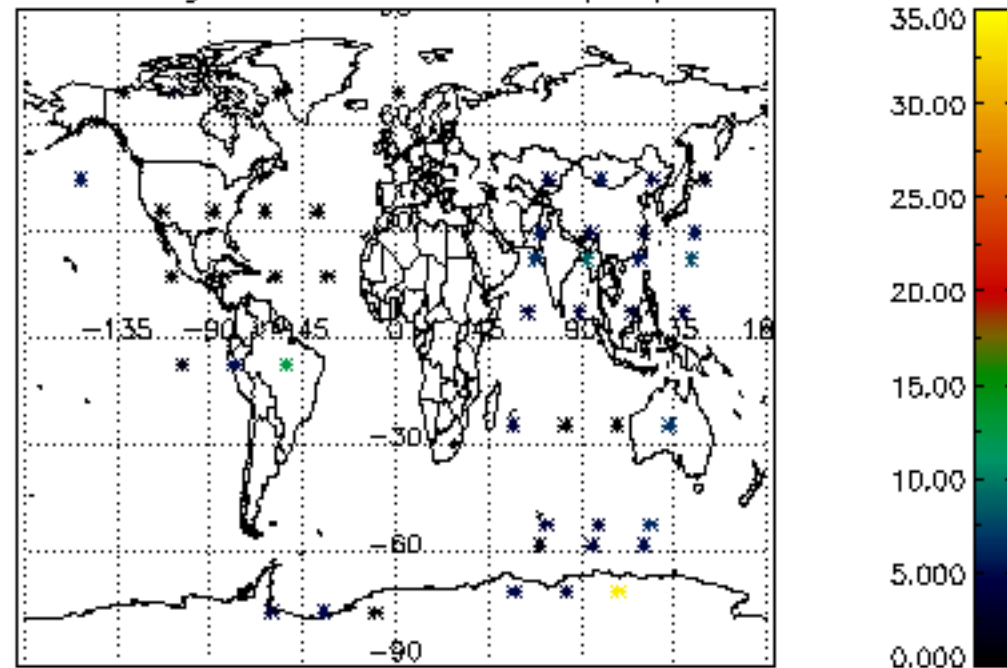
Percentage of datation errors per profile



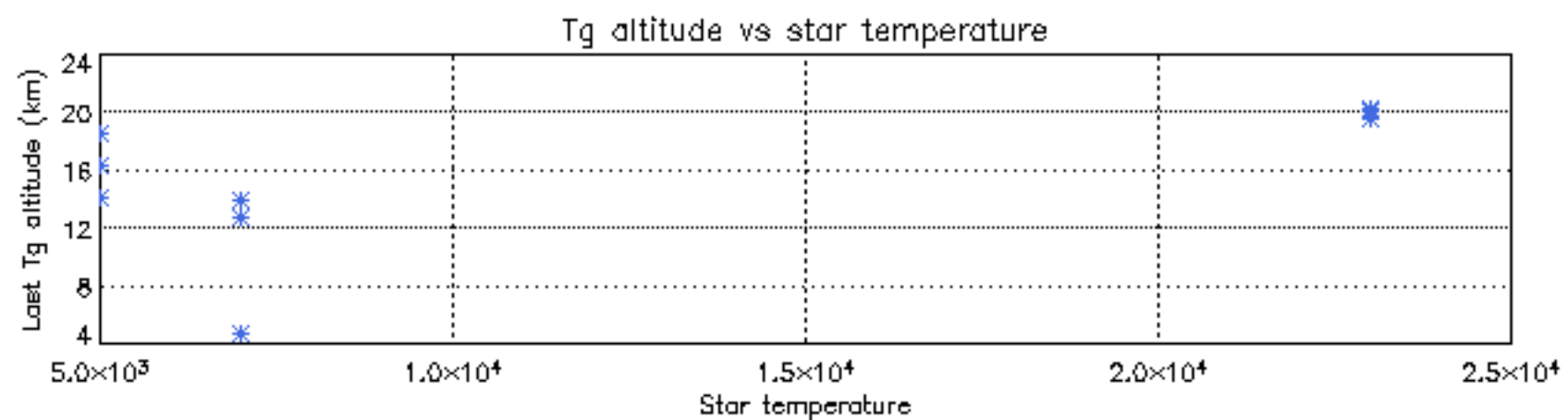
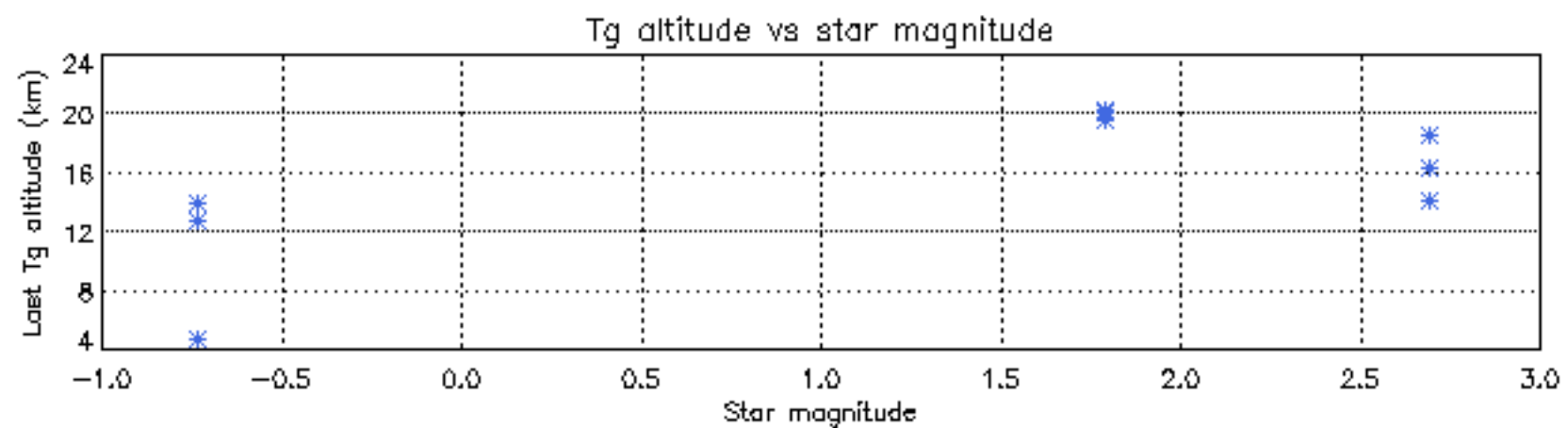
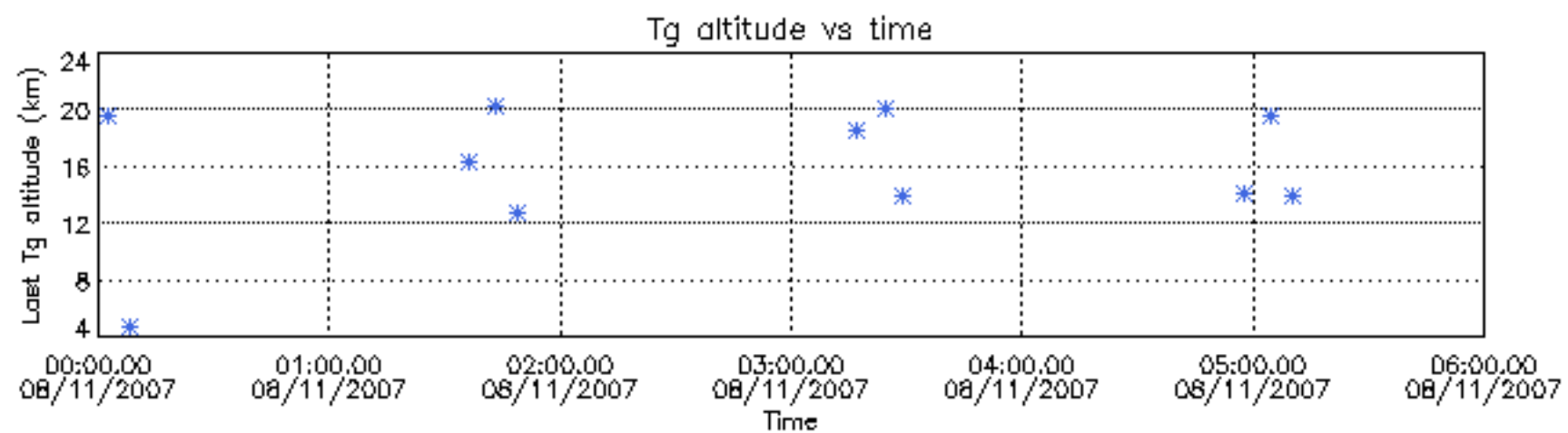
Percentage of star falling outside central band per profile



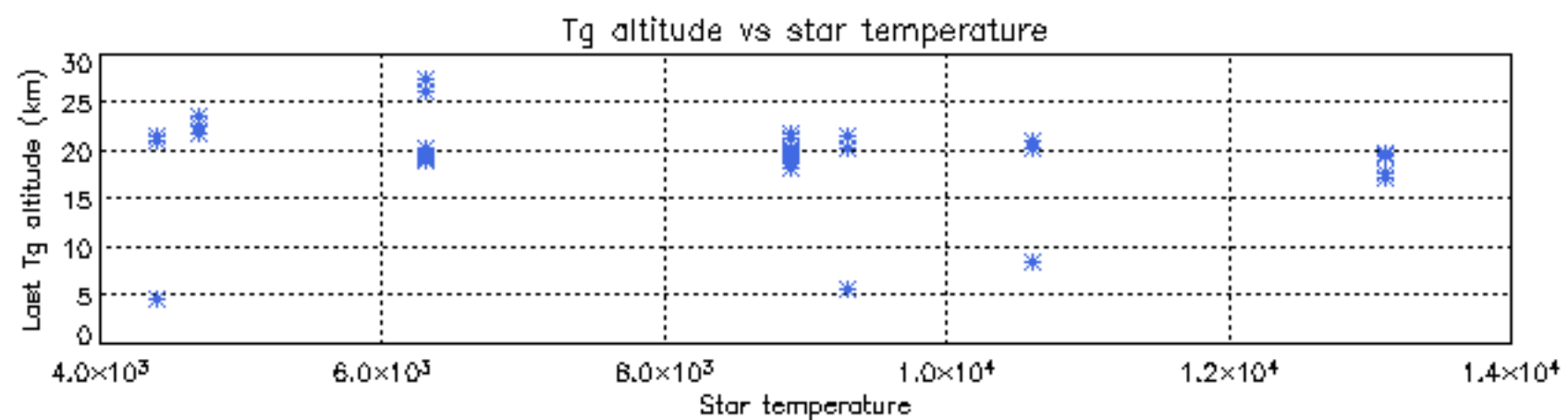
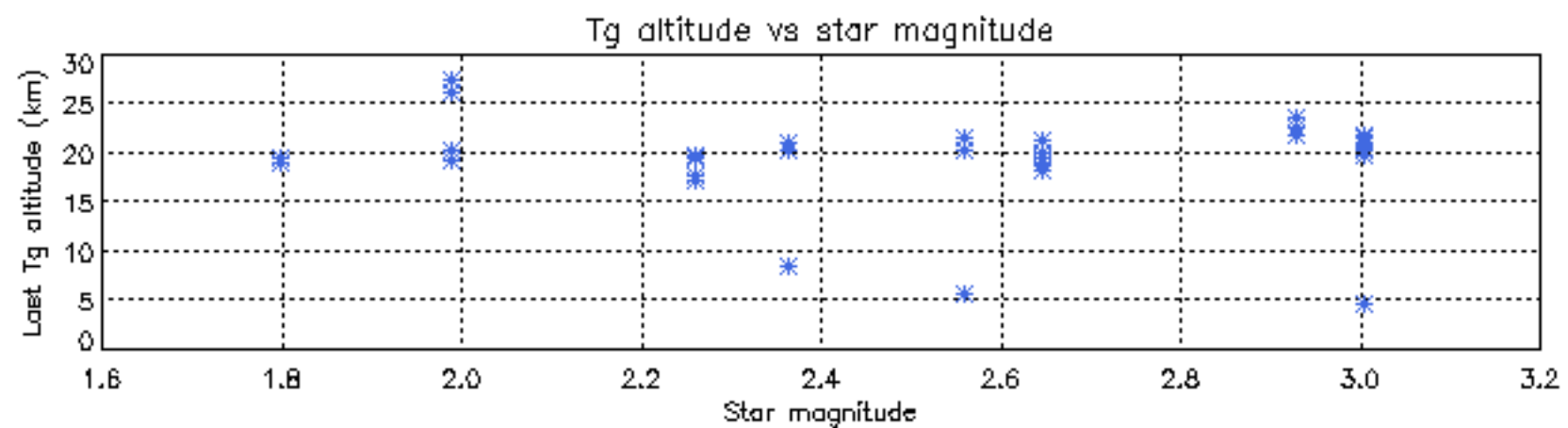
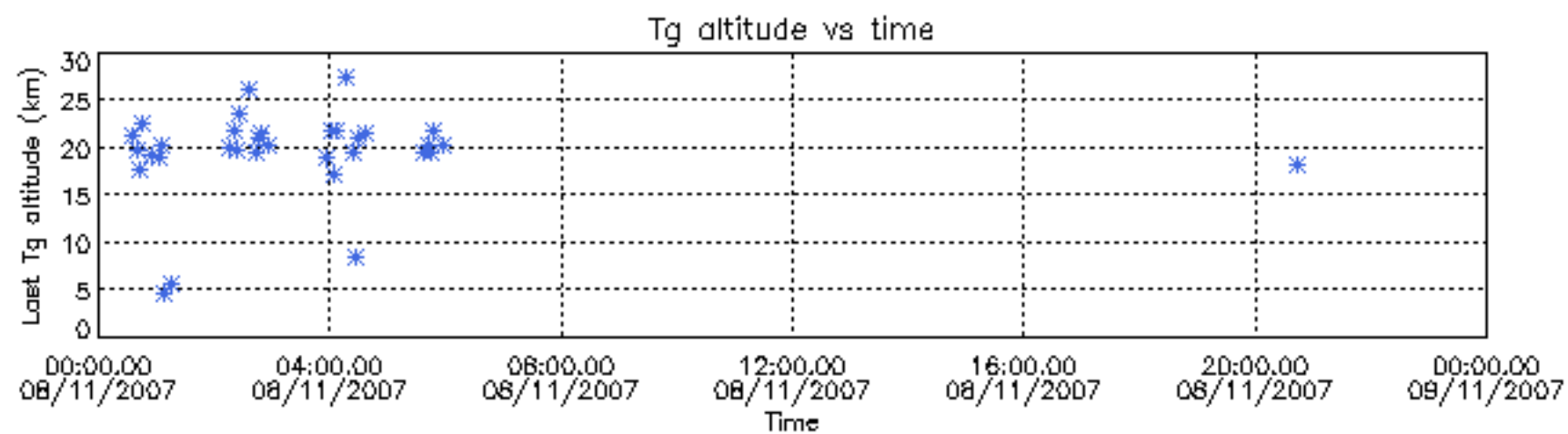
Percentage of saturation errors per profile

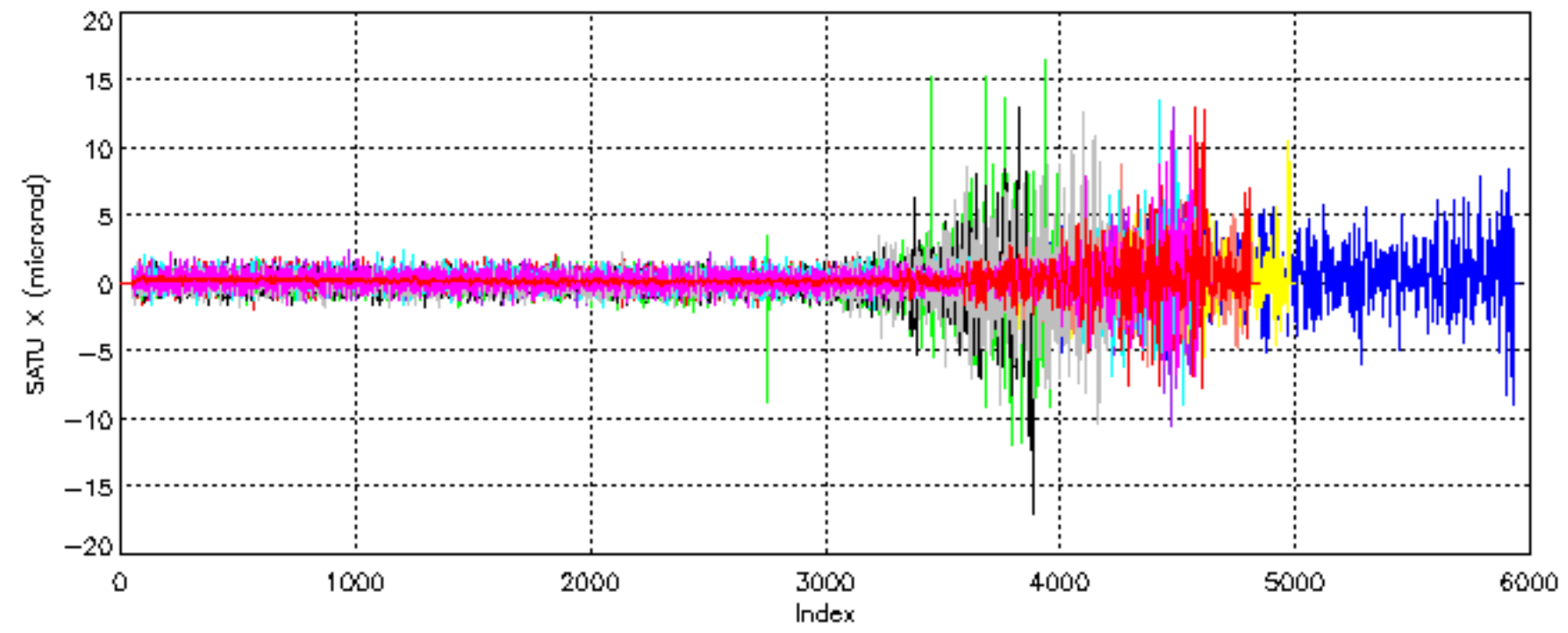


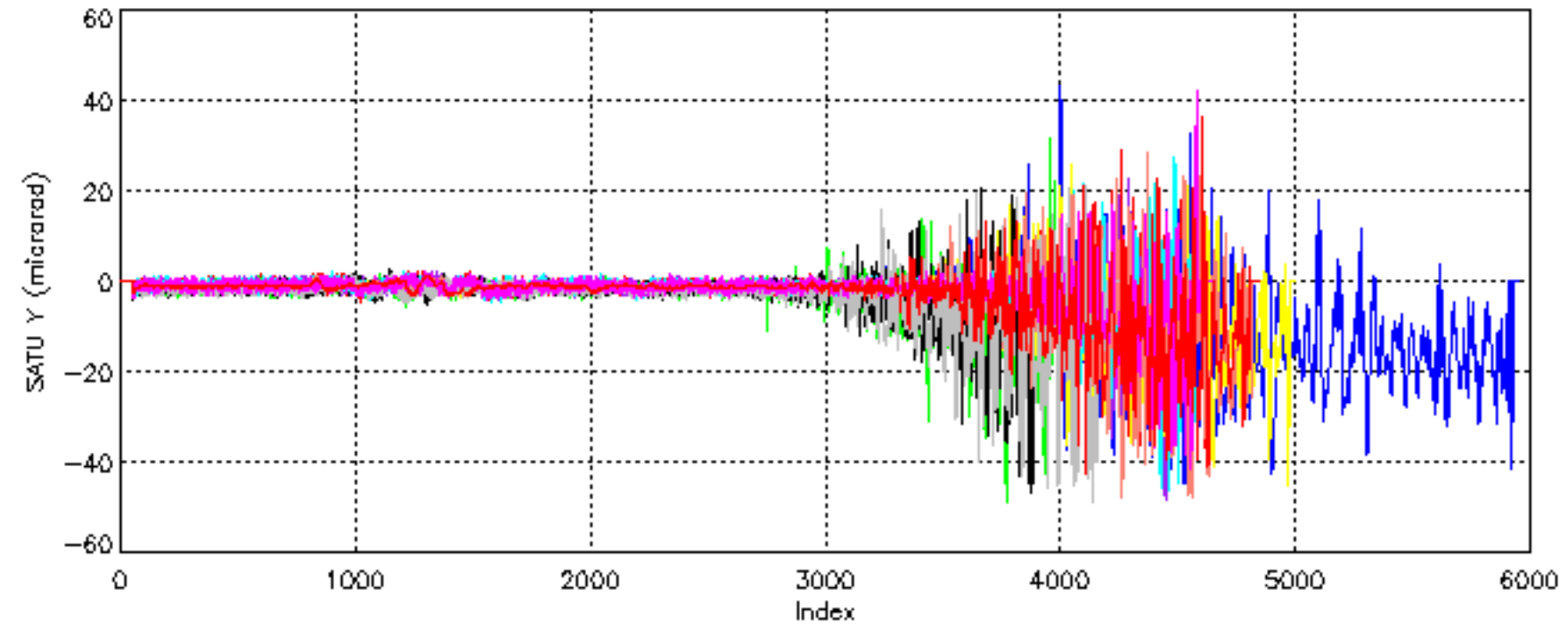
Tangent altitude at which the star is lost

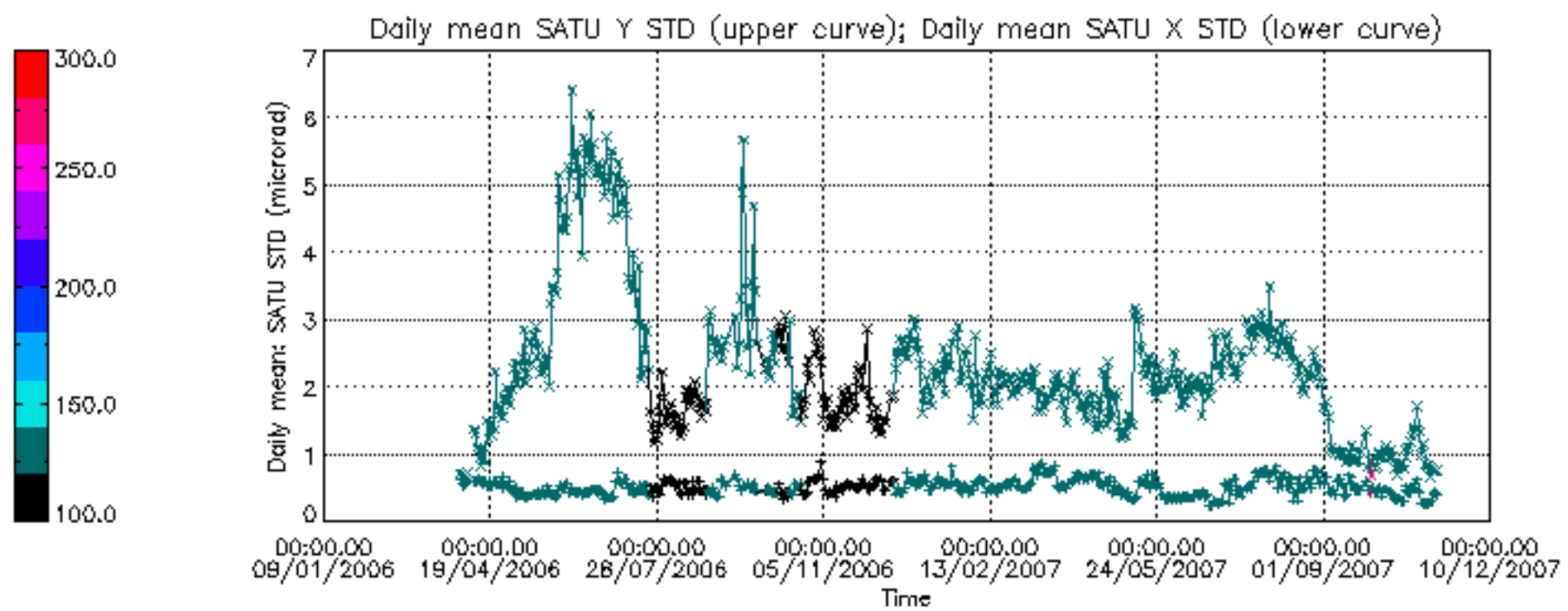


Tangent altitude at which the star is lost









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 6; 1138.9; 01-NOV-2007 00:36:29; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;29644
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9; 4017.9; 28-NOV-2007 12:19:44; Bright; 48.5; 32; 77Eps UMa ; 1.76; 11000;occ; 97; 0;30037
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17; 5522.5; 28-NOV-2007 12:44:49; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;30037
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23; 6820.4; 28-NOV-2007 13:06:27; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30037

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13; 4640.7; 29-NOV-2007 17:00:17; Bright; 34.0; 3; 16Alp Boo ; -0.05; 4250; occ; 68; 0; 30054
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 5; 2606.4; 30-NOV-2007 09:12:22; Bright; 36.0; 79; 26Bet Per ; 2.31; 13100;occ; 72; 0;30064
 6; 2741.5; 30-NOV-2007 09:14:38; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;30064
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 16; 5201.0; 30-NOV-2007 09:55:37; Bright; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;30064
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 23; 6236.2; 30-NOV-2007 16:55:16; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30068
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