

GOMOS Daily Report 02-DEC-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	04DEC2007 05:32:54
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (02DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (03DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

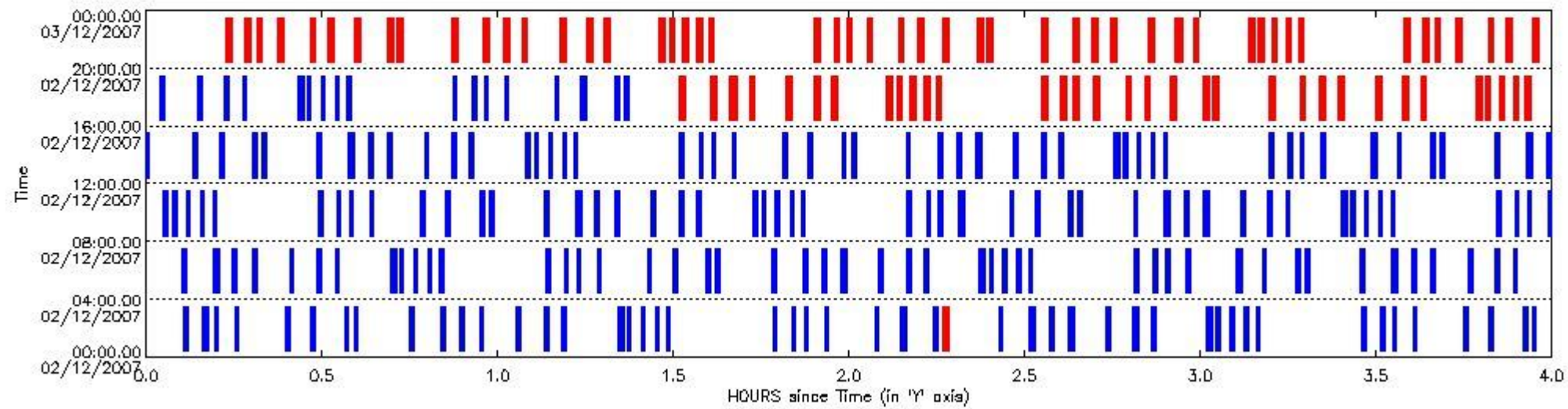
2.1 Level 0 products arrived in PCF (see template [here](#))

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
02-DEC-2007 02:16:02	2EpsCrv	171	30088
02-DEC-2007 17:31:00	MuVel	113	30098
02-DEC-2007 17:36:20	DSA1030	0	30098
02-DEC-2007 17:39:39	Gam2Vel	34	30098
02-DEC-2007 17:42:55	AlpCar	2	30098
02-DEC-2007 17:49:18	AlpCol	108	30098
02-DEC-2007 17:53:57	9BetLep	139	30098
02-DEC-2007 17:57:00	34GamEri	165	30098
02-DEC-2007 18:06:25	87AlpTau	13	30098
02-DEC-2007 18:08:05	25EtaTau	146	30098
02-DEC-2007 18:10:25	44ZetPer	150	30098
02-DEC-2007 18:12:50	45EpsPer	149	30098
02-DEC-2007 18:14:53	39DelPer	175	30098
02-DEC-2007 18:32:54	50AlpUMa	36	30098
02-DEC-2007 18:36:12	77EpsUMa	32	30098

02-DEC-2007 18:38:18	85EtaUMa	39	30098
02-DEC-2007 18:41:48	12Alp2CVn	152	30098
02-DEC-2007 18:47:18	8EtaBoo	111	30098
02-DEC-2007 18:50:25	47EpsVir	138	30098
02-DEC-2007 18:54:50	29GamVir	121	30098
02-DEC-2007 19:00:33	4GamCrv	100	30098
02-DEC-2007 19:02:09	2EpsCrv	171	30098
02-DEC-2007 19:11:37	MuVel	113	30099
02-DEC-2007 19:16:57	DSA1030	0	30099
02-DEC-2007 19:20:16	Gam2Vel	34	30099
02-DEC-2007 19:23:31	AlpCar	2	30099
02-DEC-2007 19:29:55	AlpCol	108	30099
02-DEC-2007 19:34:33	9BetLep	139	30099
02-DEC-2007 19:37:36	34GamEri	165	30099
02-DEC-2007 19:47:01	87AlpTau	13	30099
02-DEC-2007 19:48:40	25EtaTau	146	30099
02-DEC-2007 19:51:01	44ZetPer	150	30099
02-DEC-2007 19:53:26	45EpsPer	149	30099
02-DEC-2007 19:55:29	39DelPer	175	30099
02-DEC-2007 20:13:29	50AlpUMa	36	30099
02-DEC-2007 20:16:47	77EpsUMa	32	30099
02-DEC-2007 20:18:54	85EtaUMa	39	30099
02-DEC-2007 20:22:24	12Alp2CVn	152	30099
02-DEC-2007 20:27:53	8EtaBoo	111	30099
02-DEC-2007 20:31:02	47EpsVir	138	30099
02-DEC-2007 20:35:26	29GamVir	121	30099
02-DEC-2007 20:41:10	4GamCrv	100	30099
02-DEC-2007 20:42:46	2EpsCrv	171	30099
02-DEC-2007 20:52:14	MuVel	113	30100
02-DEC-2007 20:57:34	DSA1030	0	30100
02-DEC-2007 21:00:53	Gam2Vel	34	30100
02-DEC-2007 21:04:08	AlpCar	2	30100
02-DEC-2007 21:10:31	AlpCol	108	30100
02-DEC-2007 21:15:09	9BetLep	139	30100
02-DEC-2007 21:18:12	34GamEri	165	30100
02-DEC-2007 21:27:36	87AlpTau	13	30100
02-DEC-2007 21:29:16	25EtaTau	146	30100
02-DEC-2007 21:31:37	44ZetPer	150	30100
02-DEC-2007 21:34:02	45EpsPer	149	30100
02-DEC-2007 21:36:05	39DelPer	175	30100
02-DEC-2007 21:54:05	50AlpUMa	36	30100
02-DEC-2007 21:57:23	77EpsUMa	32	30100
02-DEC-2007 21:59:30	85EtaUMa	39	30100
02-DEC-2007 22:03:00	12Alp2CVn	152	30100
02-DEC-2007 22:08:29	8EtaBoo	111	30100
02-DEC-2007 22:11:38	47EpsVir	138	30100
02-DEC-2007 22:16:03	29GamVir	121	30100
02-DEC-2007 22:21:47	4GamCrv	100	30100
02-DEC-2007 22:23:23	2EpsCrv	171	30100
02-DEC-2007 22:32:50	MuVel	113	30101
02-DEC-2007 22:38:11	DSA1030	0	30101
02-DEC-2007 22:41:30	Gam2Vel	34	30101
02-DEC-2007 22:44:44	AlpCar	2	30101
02-DEC-2007 22:51:07	AlpCol	108	30101
02-DEC-2007 22:55:45	9BetLep	139	30101
02-DEC-2007 22:58:48	34GamEri	165	30101
02-DEC-2007 23:08:12	87AlpTau	13	30101
02-DEC-2007 23:09:52	25EtaTau	146	30101
02-DEC-2007 23:12:13	44ZetPer	150	30101

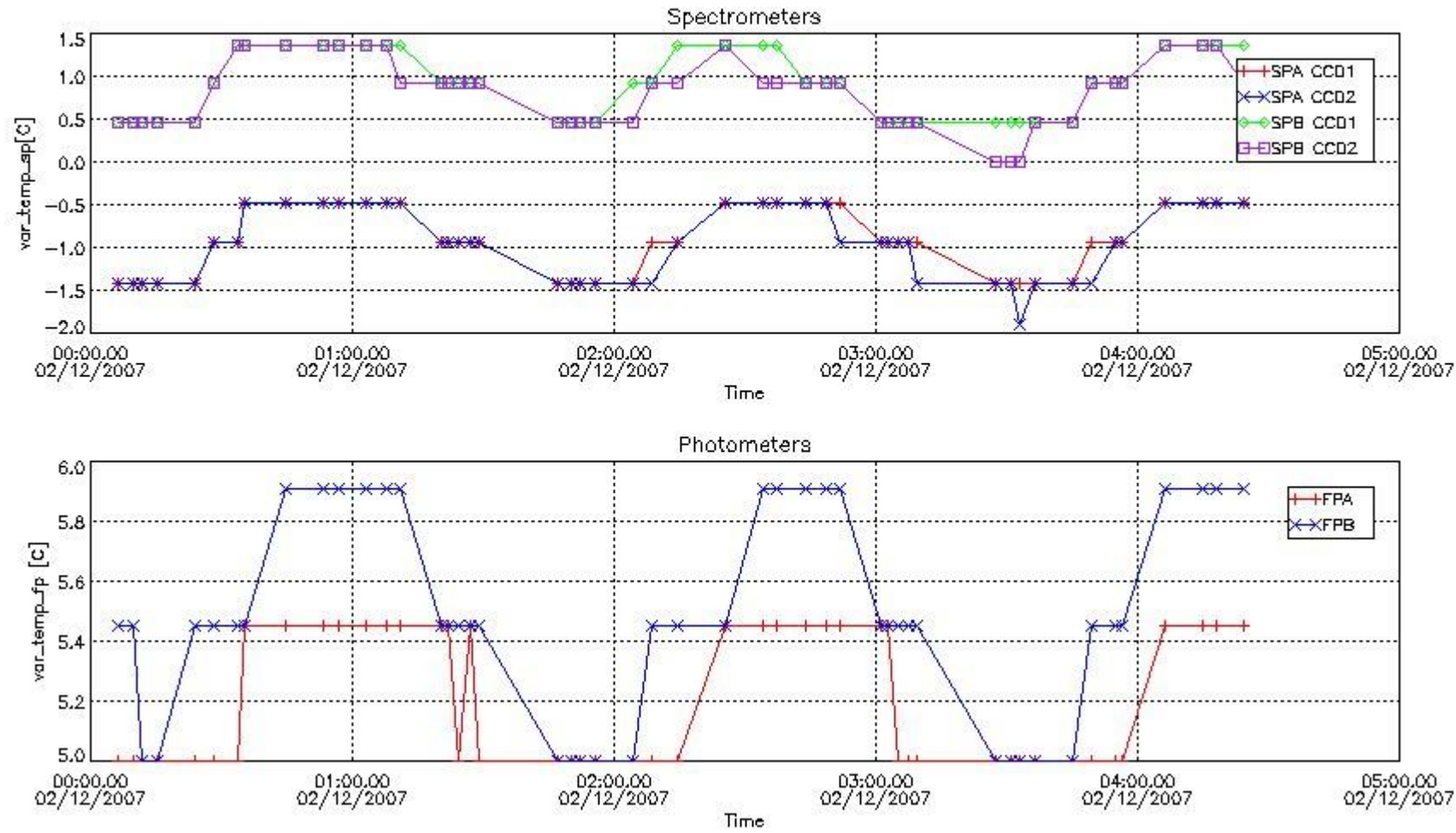
02-DEC-2007 23:14:37	45EpsPer	149	30101
02-DEC-2007 23:16:40	39DelPer	175	30101
02-DEC-2007 23:34:40	50AlpUMa	36	30101
02-DEC-2007 23:37:59	77EpsUMa	32	30101
02-DEC-2007 23:40:06	85EtaUMa	39	30101
02-DEC-2007 23:43:36	12Alp2CVn	152	30101
02-DEC-2007 23:49:05	8EtaBoo	111	30101
02-DEC-2007 23:52:14	47EpsVir	138	30101
02-DEC-2007 23:56:39	29GamVir	121	30101

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_1PNPDE20071202_000621_000000452063_00474_30087_9693.N1	02-DEC-2007 00:06:21	Bright	45.000	36	50Alp UMa	1.8000	6300.0	90	30087	No
2	GOM_TRA_1PNPDE20071202_000936_000000572063_00474_30087_9694.N1	02-DEC-2007 00:09:36	Bright	57.000	32	77Eps UMa	1.7630	11000.	114	30087	No
3	GOM_TRA_1PNPDE20071202_001142_000000372063_00474_30087_9695.N1	02-DEC-2007 00:11:42	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	30087	No
4	GOM_TRA_1PNPDE20071202_001511_000000382063_00474_30087_9696.N1	02-DEC-2007 00:15:11	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	30087	No
5	GOM_TRA_1PNPDE20071202_002345_000000412063_00474_30087_9697.N1	02-DEC-2007 00:23:45	Bright	40.500	138	47Eps Vir	2.8280	4700.0	81	30087	No
6	GOM_TRA_1PNPDE20071202_002807_000000442063_00474_30087_9698.N1	02-DEC-2007 00:28:07	Bright	44.000	121	29Gam Vir	2.7400	7200.0	88	30087	No
7	GOM_TRA_1PNPDE20071202_003348_000000462063_00474_30087_9837.N1	02-DEC-2007 00:33:48	Twilight	46.000	100	4Gam Crv	2.5800	13100.	92	30087	No
8	GOM_TRA_1PNPDE20071202_003524_000000472063_00474_30087_9838.N1	02-DEC-2007 00:35:24	Dark	47.000	171	2Eps Crv	3.0010	4250.0	94	30087	No
9	GOM_TRA_1PNPDE20071202_004452_000000482063_00475_30088_9839.N1	02-DEC-2007 00:44:52	Dark	48.000	113	Mu Vel	2.6920	5000.0	96	30088	No
10	GOM_TRA_1PNPDE20071202_005330_000000472063_00475_30088_9840.N1	02-DEC-2007 00:53:30	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	30088	No
11	GOM_TRA_1PNPDE20071202_005649_000000482063_00475_30088_9841.N1	02-DEC-2007 00:56:49	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	30088	No
12	GOM_TRA_1PNPDE20071202_010314_000000472063_00475_30088_9842.N1	02-DEC-2007 01:03:14	Dark	46.500	108	Alp Col	2.6520	15200.	93	30088	No
13	GOM_TRA_1PNPDE20071202_010754_000000532063_00475_30088_9843.N1	02-DEC-2007 01:07:54	Straylight	53.000	139	9Bet Lep	2.8330	5600.0	106	30088	No
14	GOM_TRA_1PNPDE20071202_011058_000000442063_00475_30088_9844.N1	02-DEC-2007 01:10:58	Straylight	44.000	165	34Gam Eri	2.9500	3200.0	88	30088	No
15	GOM_TRA_1PNPDE20071202_012028_000000622063_00475_30088_9845.N1	02-DEC-2007 01:20:28	Bright	62.000	13	87Alp Tau	0.86700	3800.0	124	30088	No
16	GOM_TRA_1PNPDE20071202_012206_000000372063_00475_30088_9846.N1	02-DEC-2007 01:22:06	Bright	36.500	146	25Eta Tau	2.8730	15200.	73	30088	No
17	GOM_TRA_1PNPDE20071202_012428_000000382063_00475_30088_9847.N1	02-DEC-2007 01:24:28	Bright	37.500	150	44Zet Per	2.8900	28000.	75	30088	No
18	GOM_TRA_1PNPDE20071202_012653_000000382063_00475_30088_9848.N1	02-DEC-2007 01:26:53	Bright	38.000	149	45Eps Per	2.8880	30000.	76	30088	No
19	GOM_TRA_1PNPDE20071202_012855_000000352063_00475_30088_9849.N1	02-DEC-2007 01:28:55	Bright	35.000	175	39Del Per	3.0100	19400.	70	30088	No
20	GOM_TRA_1PNPDE20071202_014657_000000432063_00475_30088_9850.N1	02-DEC-2007 01:46:57	Bright	43.000	36	50Alp UMa	1.8000	6300.0	86	30088	No
21	GOM_TRA_1PNPDE20071202_015012_000000372063_00475_30088_9851.N1	02-DEC-2007 01:50:12	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	30088	No
22	GOM_TRA_1PNPDE20071202_015218_000000372063_00475_30088_9852.N1	02-DEC-2007 01:52:18	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	30088	No
23	GOM_TRA_1PNPDE20071202_015547_000000382063_00475_30088_9853.N1	02-DEC-2007 01:55:47	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	30088	No
24	GOM_TRA_1PNPDE20071202_020421_000000392063_00475_30088_9854.N1	02-DEC-2007 02:04:21	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	30088	No
25	GOM_TRA_1PNPDE20071202_020843_000000622063_00475_30088_0000.N1	02-DEC-2007 02:08:43	Bright	62.000	121	29Gam Vir	2.7400	7200.0	124	30088	No
26	GOM_TRA_1PNPDE20071202_021425_000000462063_00475_30088_0001.N1	02-DEC-2007 02:14:25	Twilight	45.500	100	4Gam Crv	2.5800	13100.	91	30088	No
27	GOM_TRA_1PNPDE20071202_022529_000000442063_00476_30089_0002.N1	02-DEC-2007 02:25:29	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	30089	No
28	GOM_TRA_1PNPDE20071202_023407_000000472063_00476_30089_0003.N1	02-DEC-2007 02:34:07	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	30089	No
29	GOM_TRA_1PNPDE20071202_023726_000000582063_00476_30089_0004.N1	02-DEC-2007 02:37:26	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	30089	No
30	GOM_TRA_1PNPDE20071202_024350_000000482063_00476_30089_0005.N1	02-DEC-2007 02:43:50	Dark	47.500	108	Alp Col	2.6520	15200.	95	30089	No
31	GOM_TRA_1PNPDE20071202_024830_000000512063_00476_30089_0006.N1	02-DEC-2007 02:48:30	Straylight	51.000	139	9Bet Lep	2.8330	5600.0	102	30089	No
32	GOM_TRA_1PNPDE20071202_025134_000000432063_00476_30089_0007.N1	02-DEC-2007 02:51:34	Straylight	43.000	165	34Gam Eri	2.9500	3200.0	86	30089	No
33	GOM_TRA_1PNPDE20071202_030104_000000582063_00476_30089_0008.N1	02-DEC-2007 03:01:04	Bright	58.000	13	87Alp Tau	0.86700	3800.0	116	30089	No
34	GOM_TRA_1PNPDE20071202_030242_000000392063_00476_30089_0009.N1	02-DEC-2007 03:02:42	Bright	39.000	146	25Eta Tau	2.8730	15200.	78	30089	No
35	GOM_TRA_1PNPDE20071202_030503_000000392063_00476_30089_0010.N1	02-DEC-2007 03:05:03	Bright	39.000	150	44Zet Per	2.8900	28000.	78	30089	No
36	GOM_TRA_1PNPDE20071202_030729_000000392063_00476_30089_0011.N1	02-DEC-2007 03:07:29	Bright	38.500	149	45Eps Per	2.8880	30000.	77	30089	No
37	GOM_TRA_1PNPDE20071202_030931_000000352063_00476_30089_0012.N1	02-DEC-2007 03:09:31	Bright	35.000	175	39Del Per	3.0100	19400.	70	30089	No
38	GOM_TRA_1PNPDE20071202_032732_000000452063_00476_30089_0131.N1	02-DEC-2007 03:27:32	Bright	45.000	36	50Alp UMa	1.8000	6300.0	90	30089	No
39	GOM_TRA_1PNPDE20071202_033048_000000402063_00476_30089_0132.N1	02-DEC-2007 03:30:48	Bright	39.500	32	77Eps UMa	1.7630	11000.	79	30089	No
40	GOM_TRA_1PNPDE20071202_033253_000000372063_00476_30089_0133.N1	02-DEC-2007 03:32:53	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	30089	No
41	GOM_TRA_1PNPDE20071202_033623_000000382063_00476_30089_0134.N1	02-DEC-2007 03:36:23	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	30089	No
42	GOM_TRA_1PNPDE20071202_034458_000000402063_00476_30089_0135.N1	02-DEC-2007 03:44:58	Bright	40.000	138	47Eps Vir	2.8280	4700.0	80	30089	No
43	GOM_TRA_1PNPDE20071202_034920_000000432063_00476_30089_0136.N1	02-DEC-2007 03:49:20	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	30089	No
44	GOM_TRA_1PNPDE20071202_035502_000000452063_00476_30089_0137.N1	02-DEC-2007 03:55:02	Twilight	45.000	100	4Gam Crv	2.5800	13100.	90	30089	No
45	GOM_TRA_1PNPDE20071202_035638_000000442063_00476_30089_0138.N1	02-DEC-2007 03:56:38	Dark	44.000	171	2Eps Crv	3.0010	4250.0	88	30089	No

46	GOM_TRA_1PNPDE20071202_040606_000000442063_00477_30090_0139.N1	02-DEC-2007 04:06:06	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	30090	No
47	GOM_TRA_1PNPDE20071202_041444_000000472063_00477_30090_0140.N1	02-DEC-2007 04:14:44	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	30090	No
48	GOM_TRA_1PNPDE20071202_041802_000000532063_00477_30090_0141.N1	02-DEC-2007 04:18:02	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	30090	No
49	GOM_TRA_1PNPDE20071202_042427_000000442063_00477_30090_0142.N1	02-DEC-2007 04:24:27	Dark	43.500	108	Alp Col	2.6520	15200.	87	30090	No

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



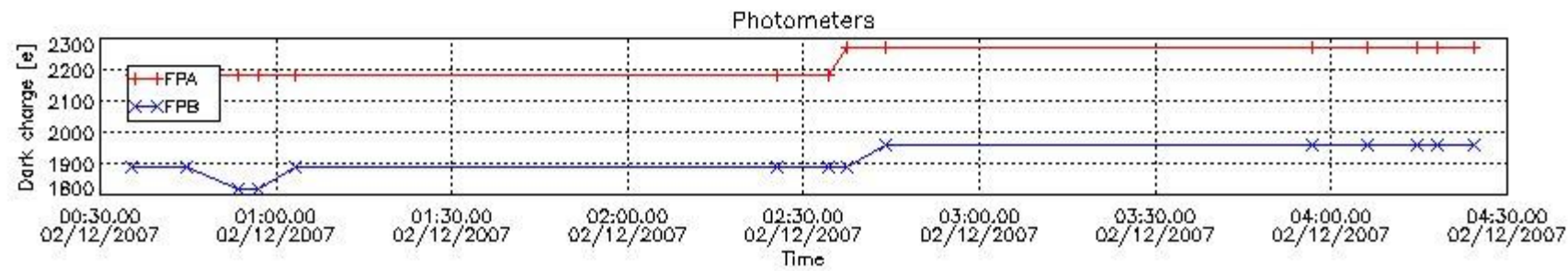
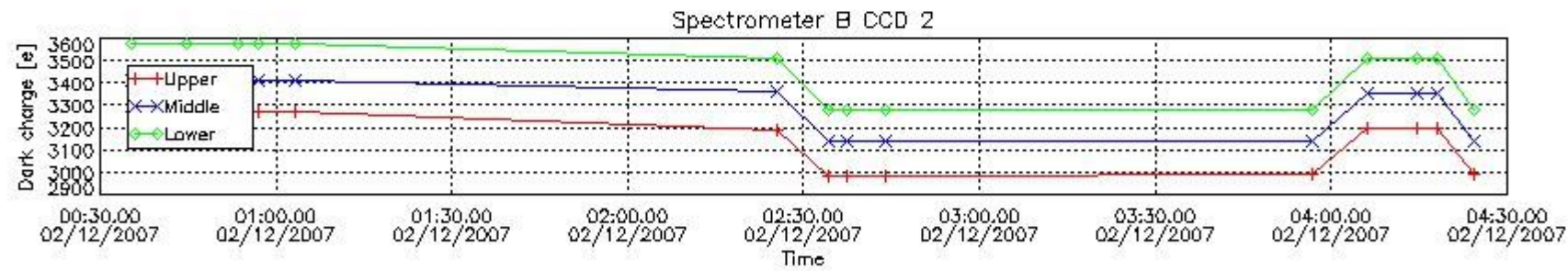
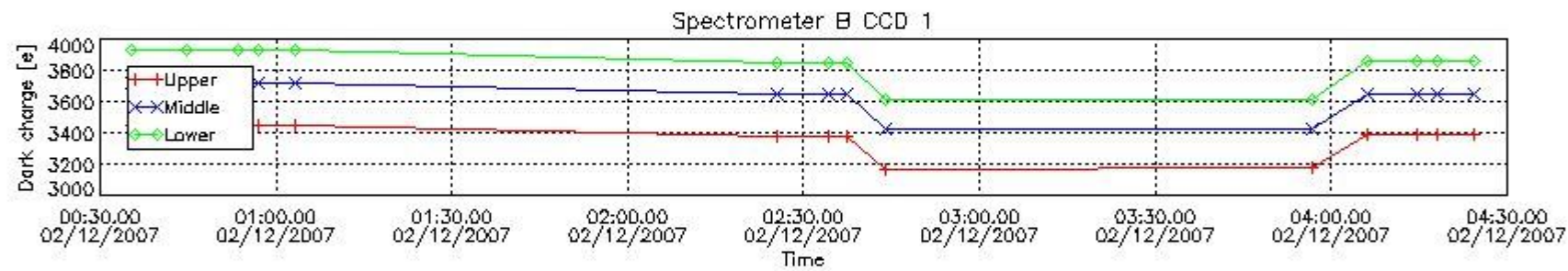
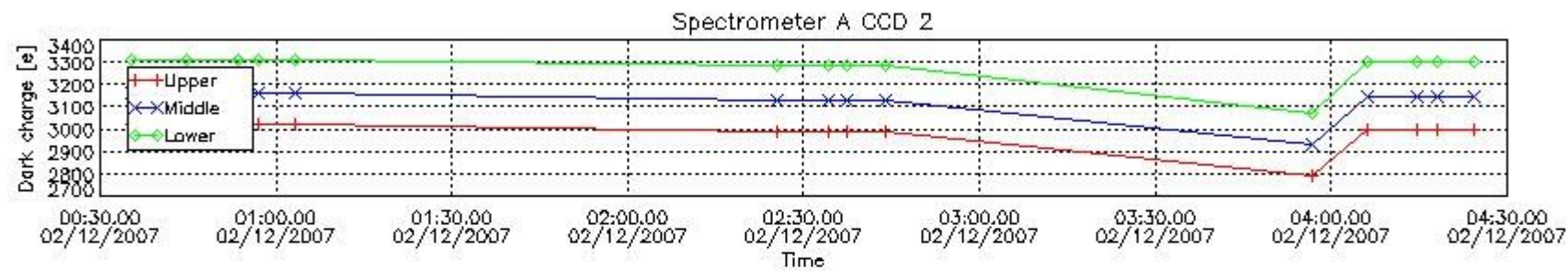
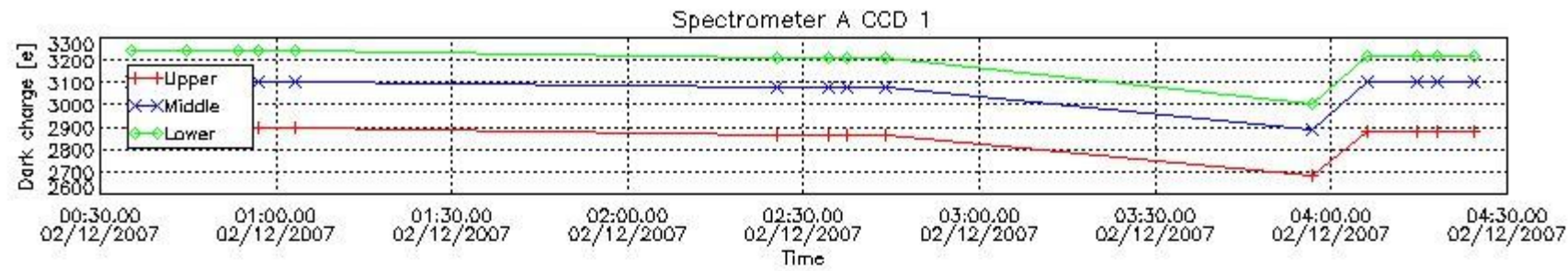
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



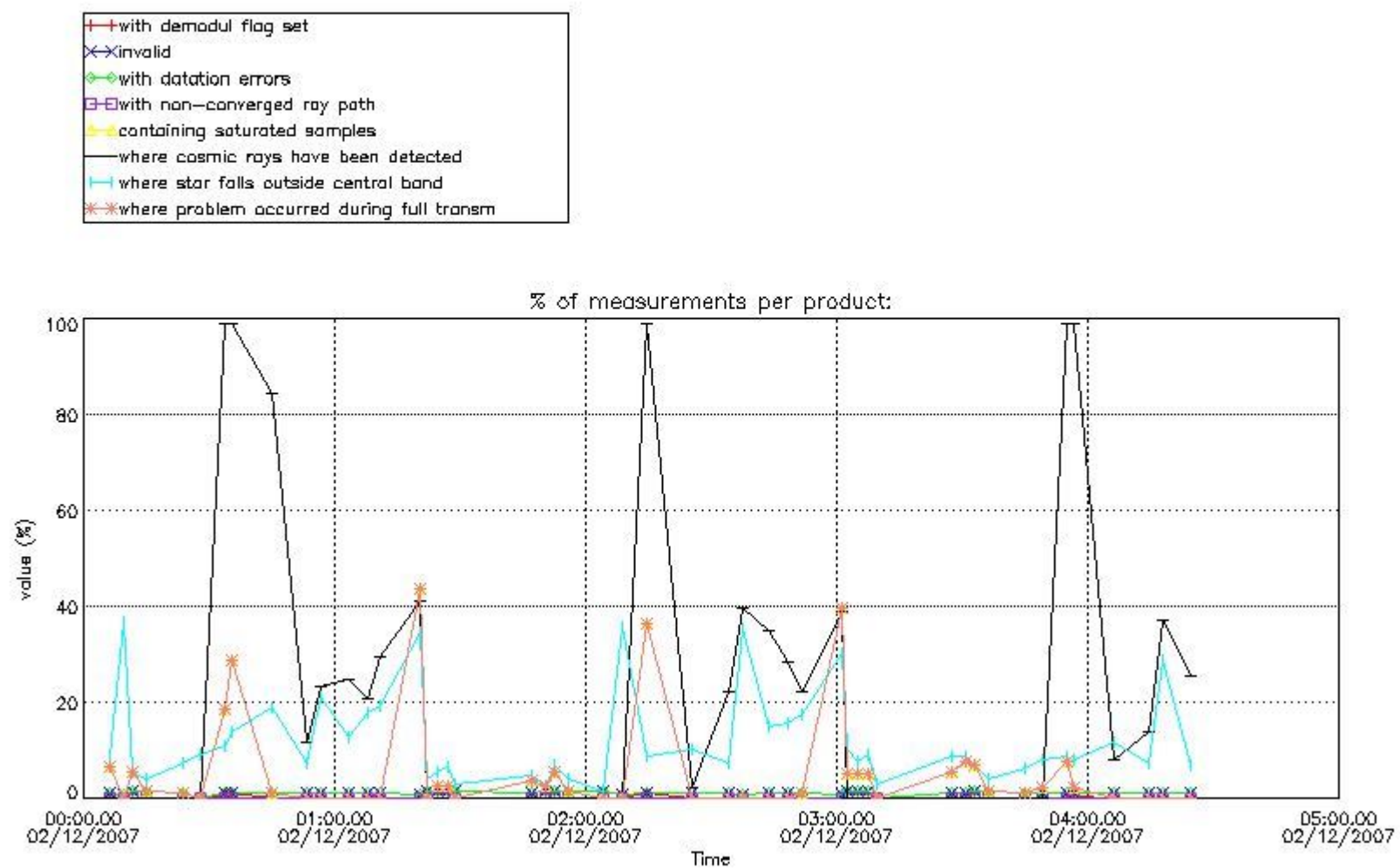
5. Demodulation flag and quality information monitoring

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.

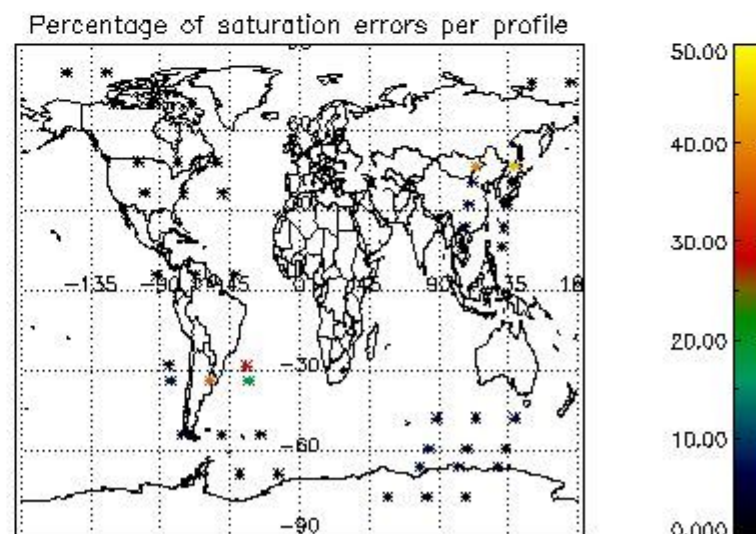
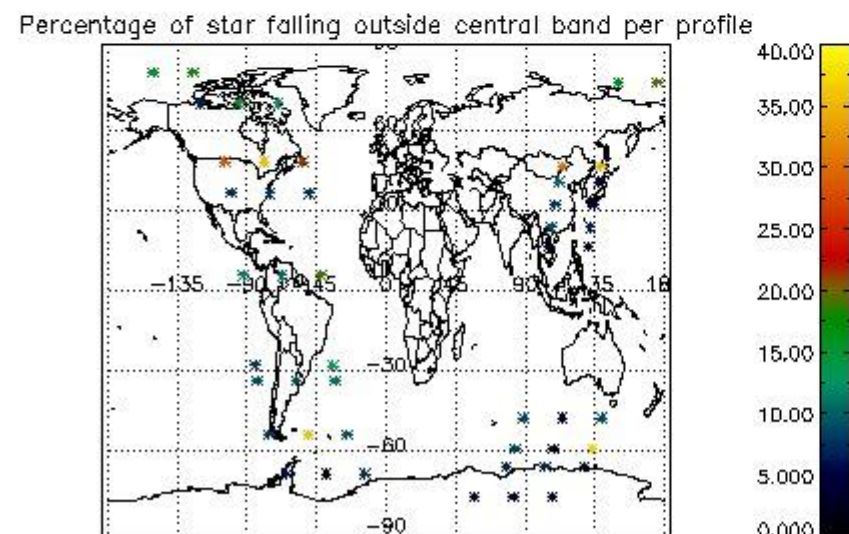
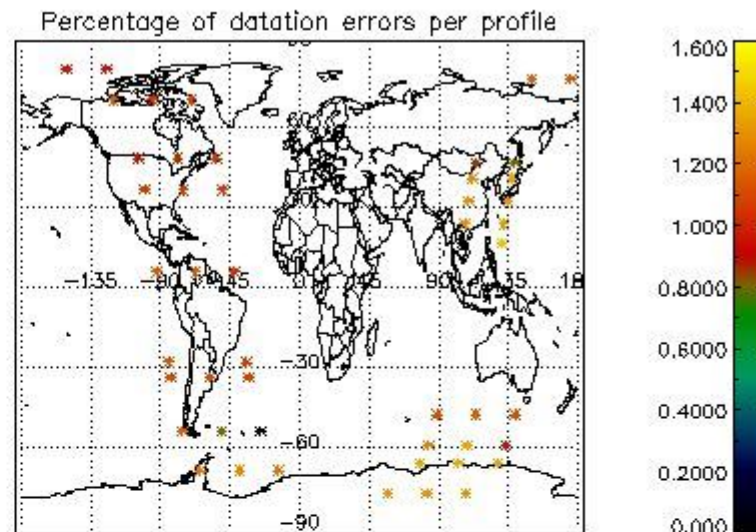
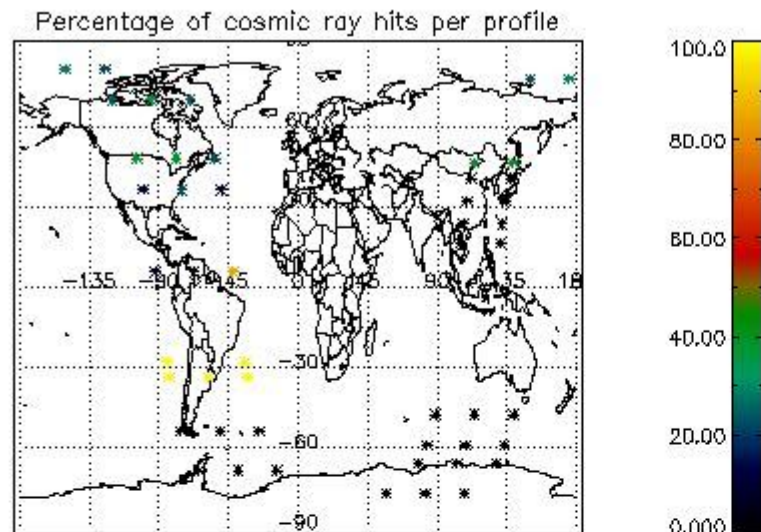
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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)



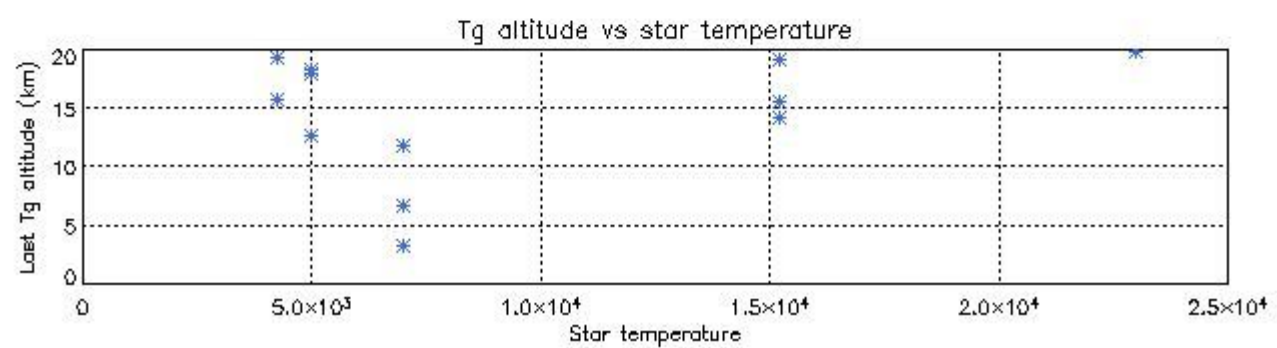
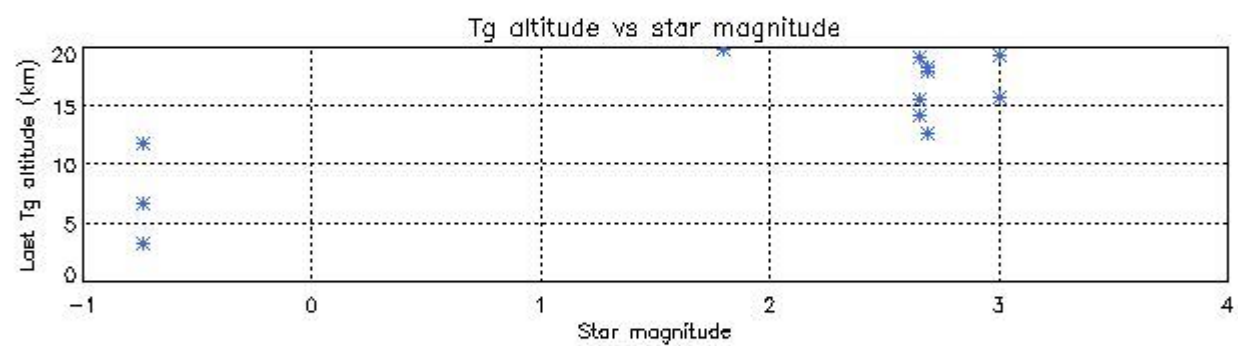
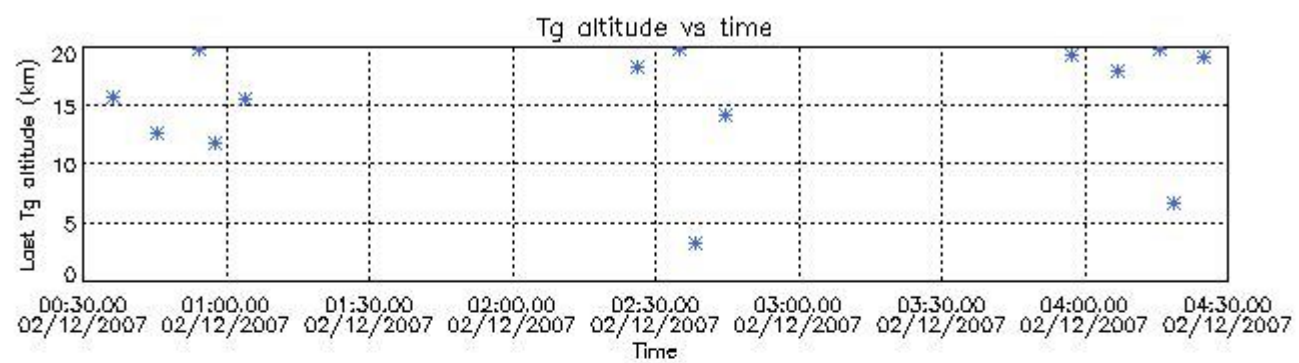
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.285	19.077	17.967
St. deviation:	5.1759	6.4384	0.86198
Maximum:	19.814	25.602	18.803
Minimum:	3.2297	3.4224	17.081
Number of data:	14.000	28.000	3.0000

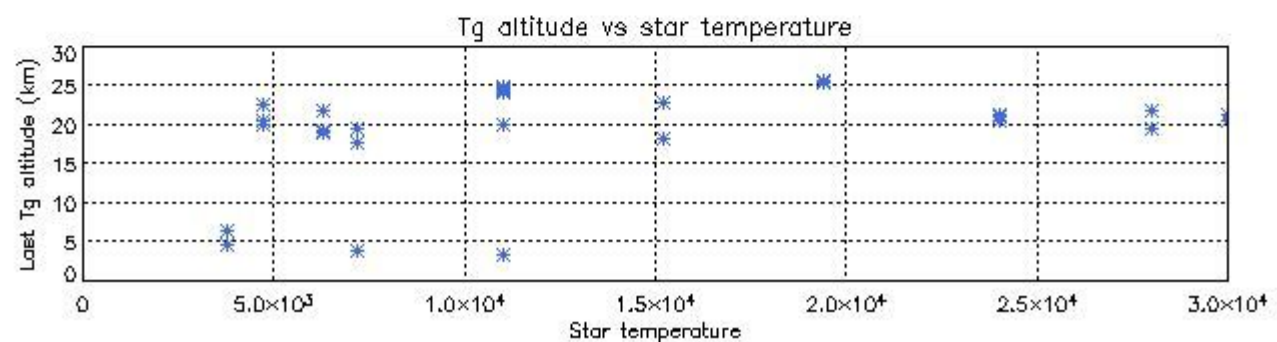
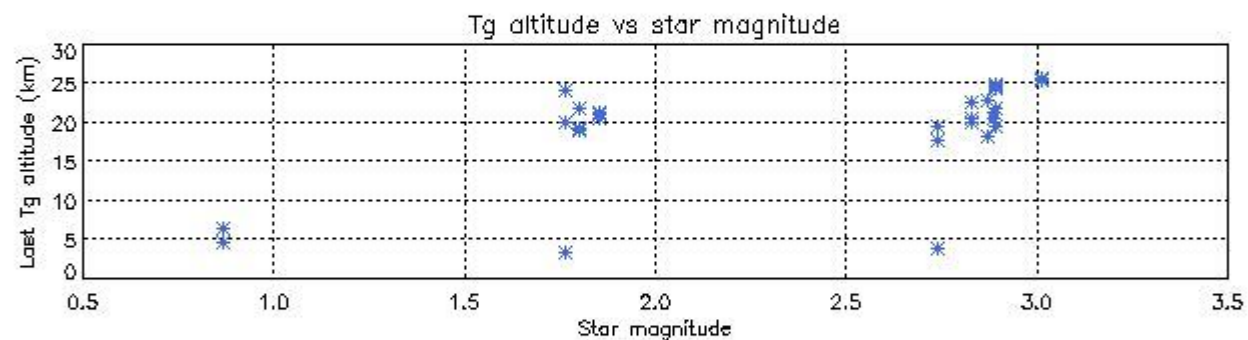
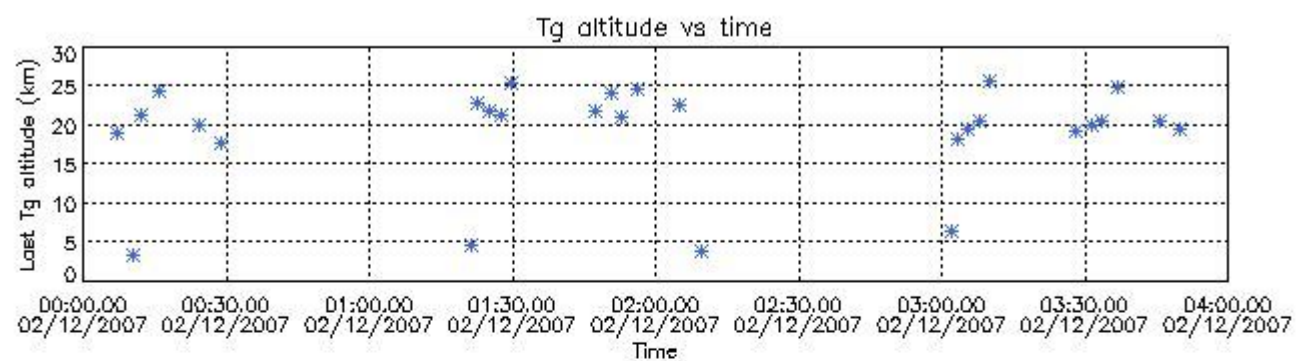
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



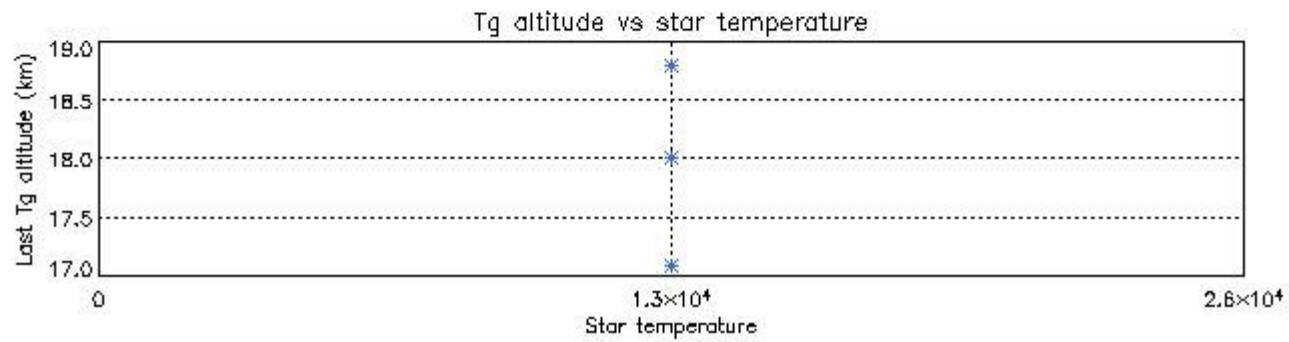
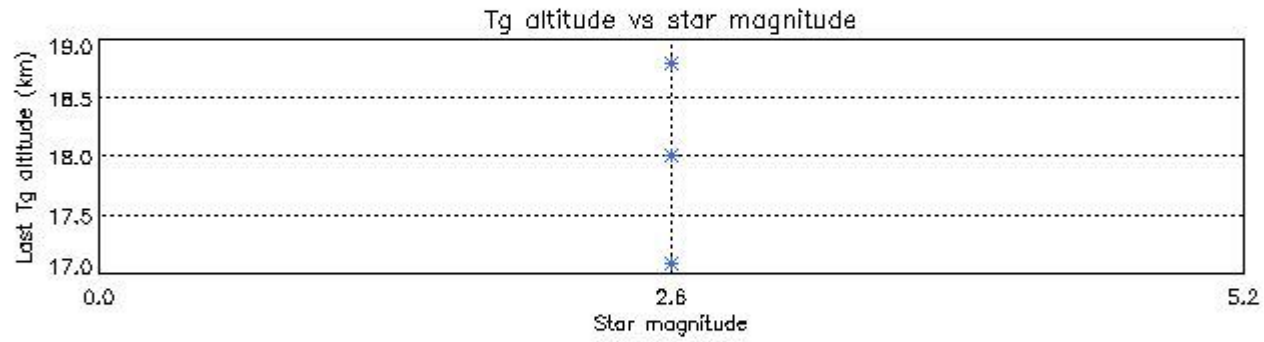
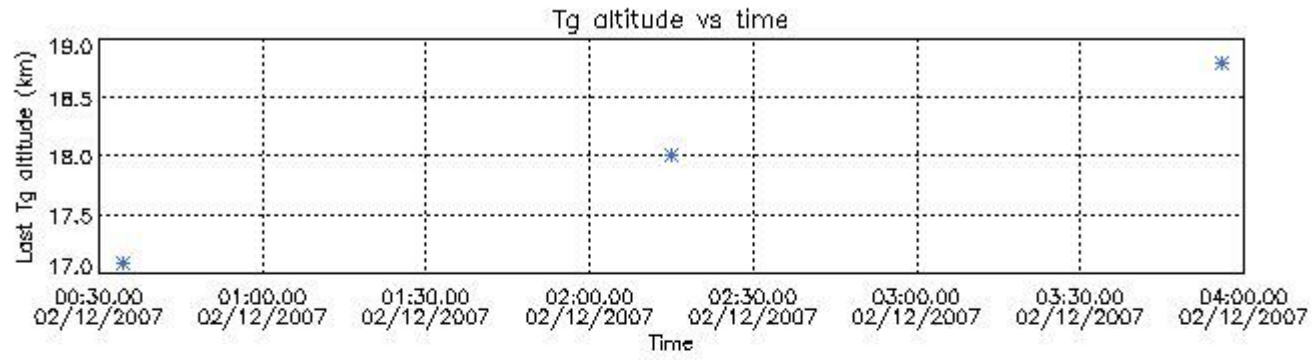
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

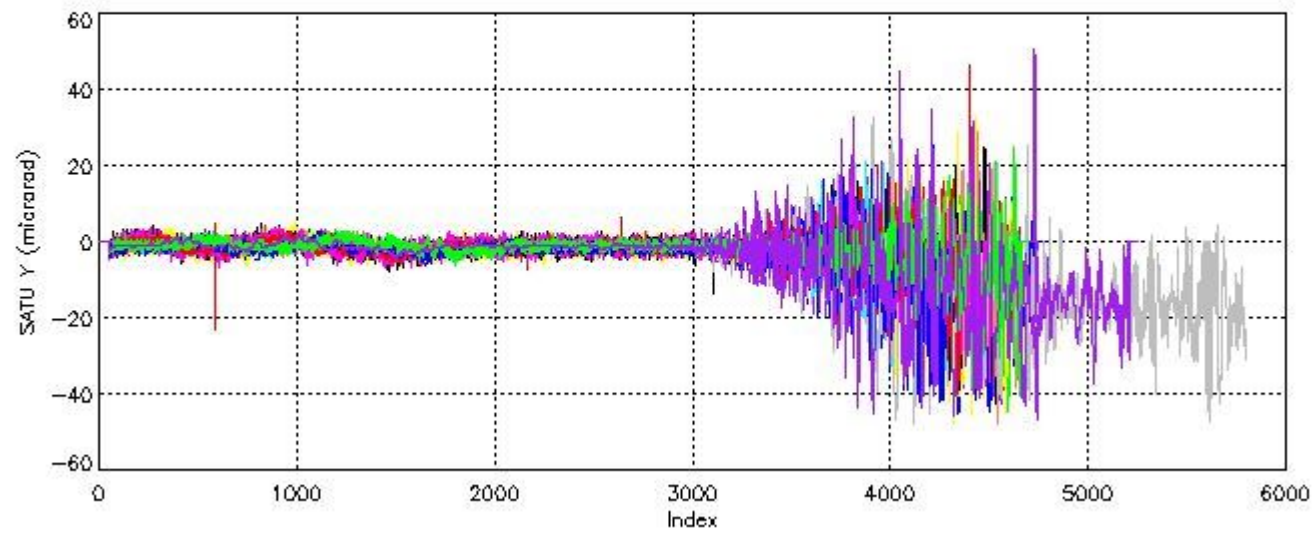
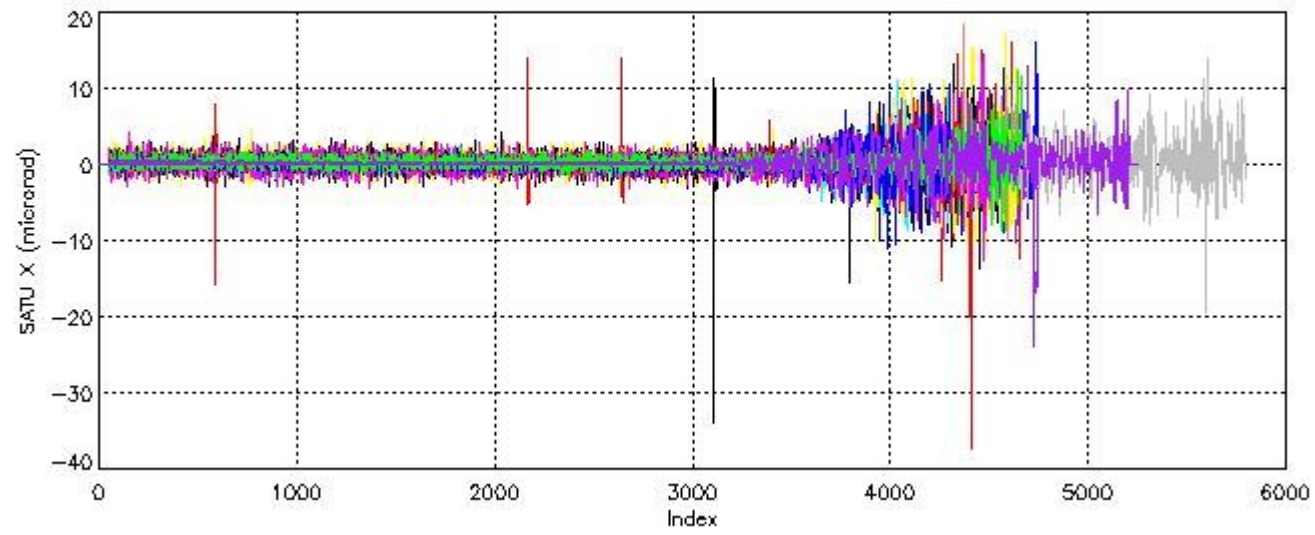


7. Star Acquisition and Tracking Unit (SATU)

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:	0.22045	-0.87414	0.16836	-1.0739
St. deviation:	0.57452	1.2331	0.98463	1.7823
Maximum:	7.9000	5.2000	6.5000	7.8000
Minimum:	-15.800	-23.300	-5.9000	-9.7000

Number of data:	14350.	14350.	25650.	25650.
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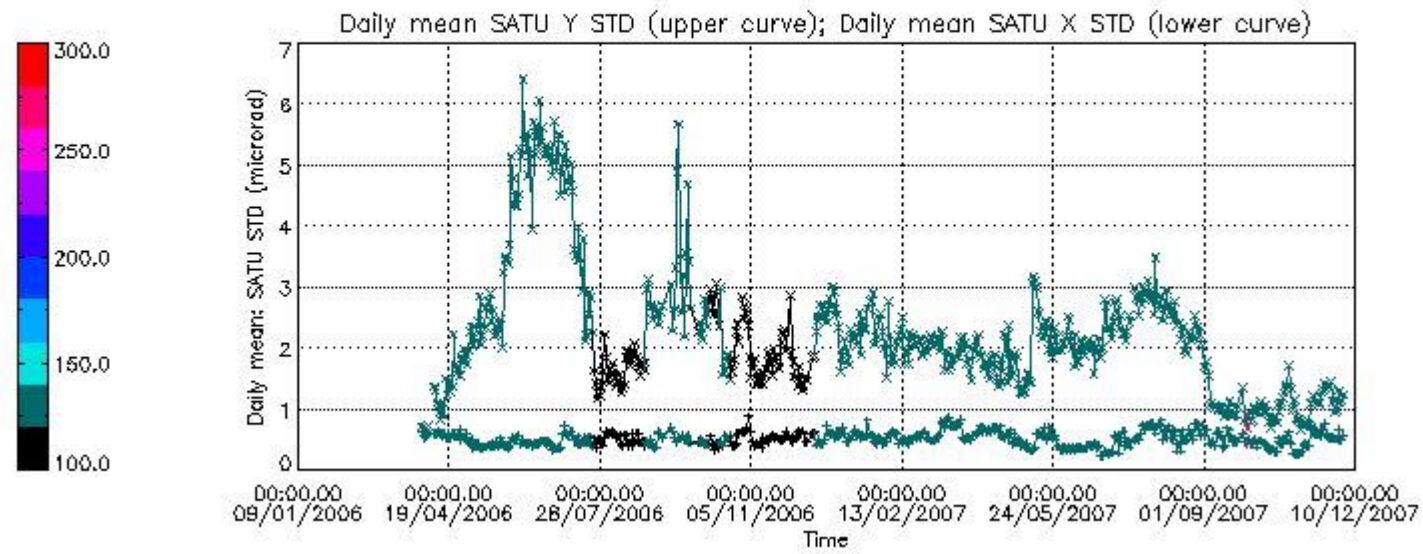
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

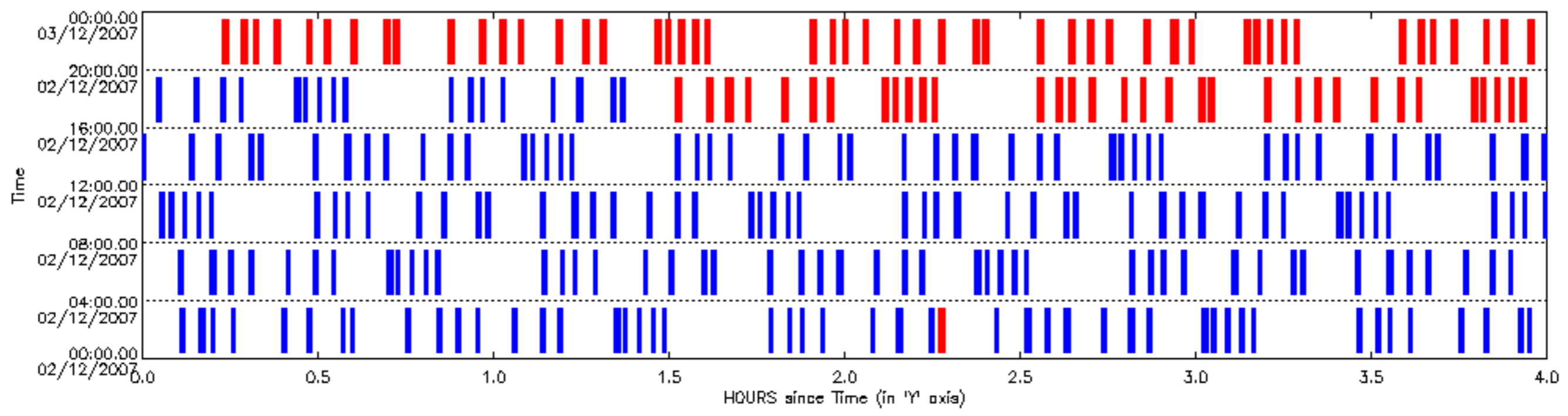
Lower curve: STD of SATU X axis

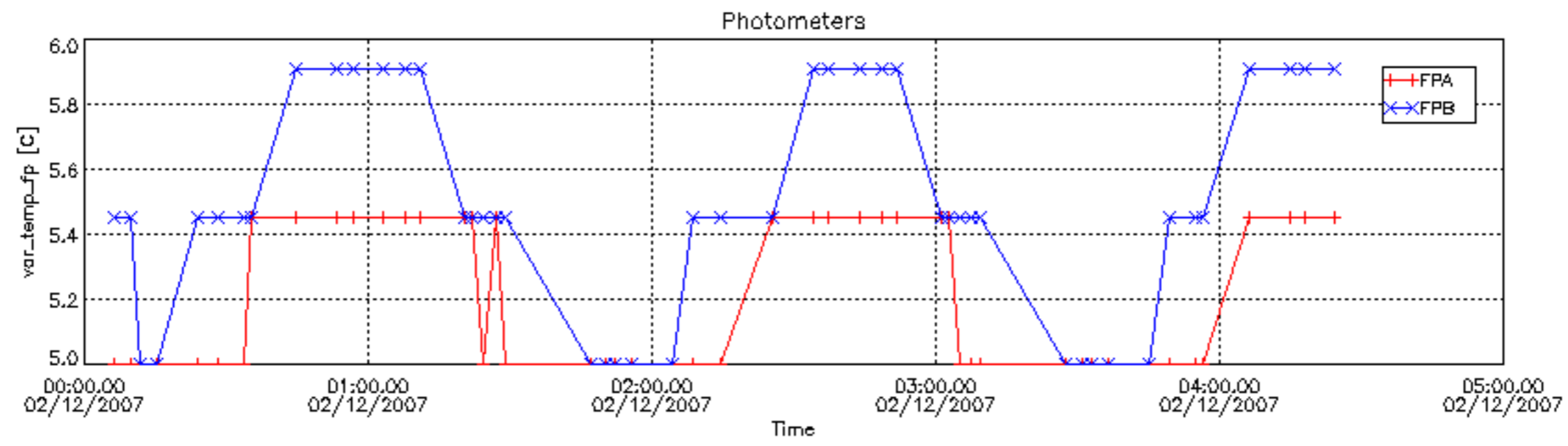
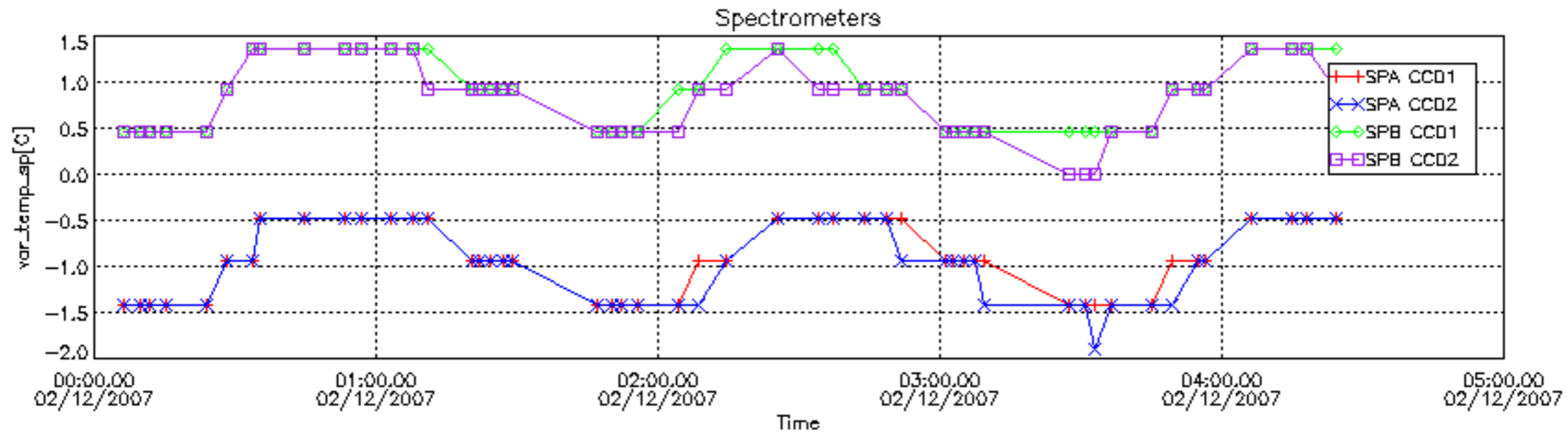


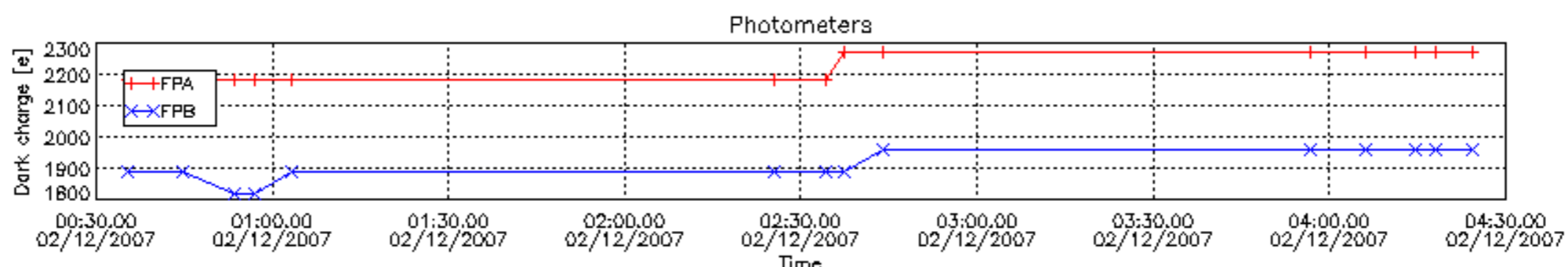
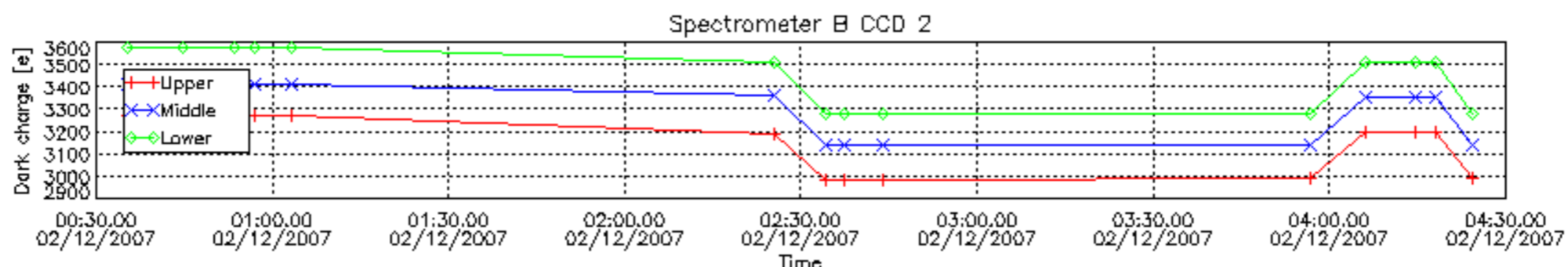
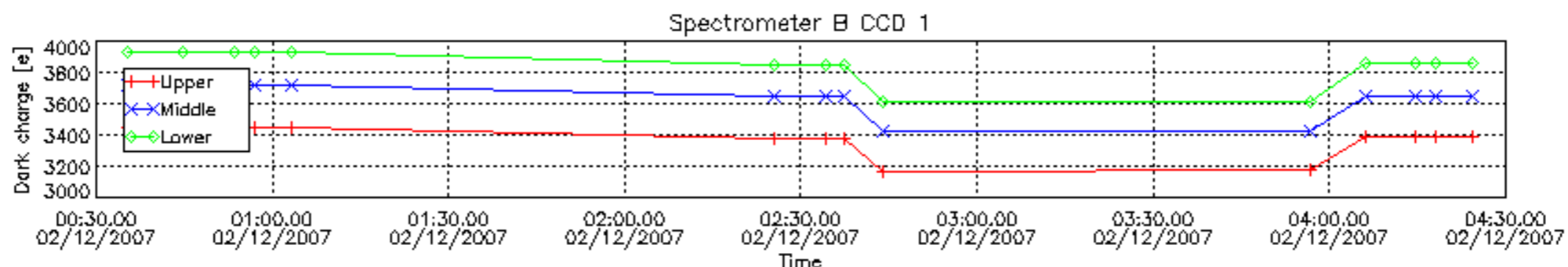
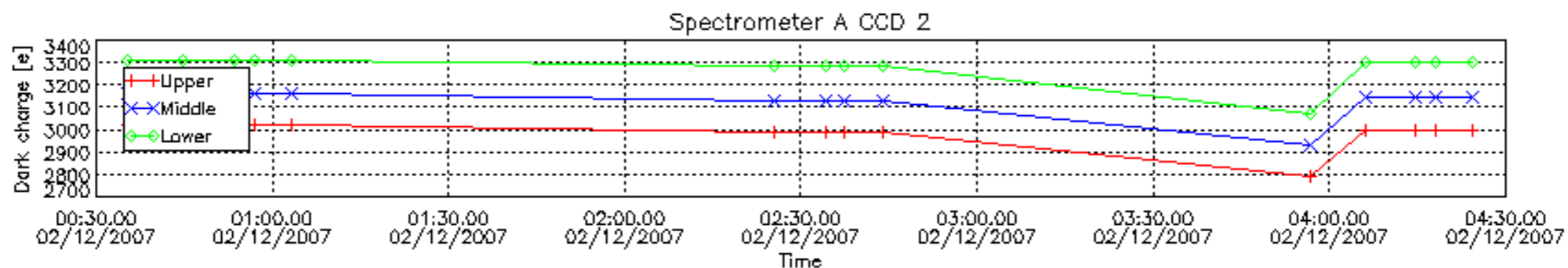
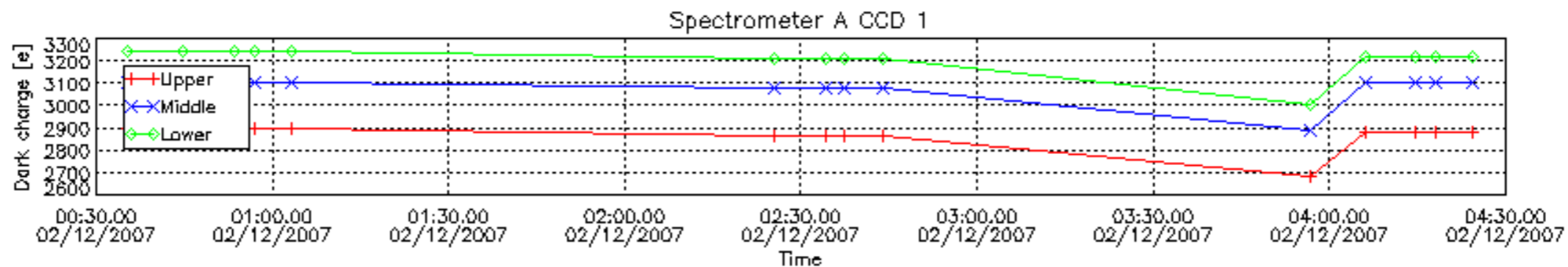
8. Auxiliary Data Files used for the production reported in section 2.4

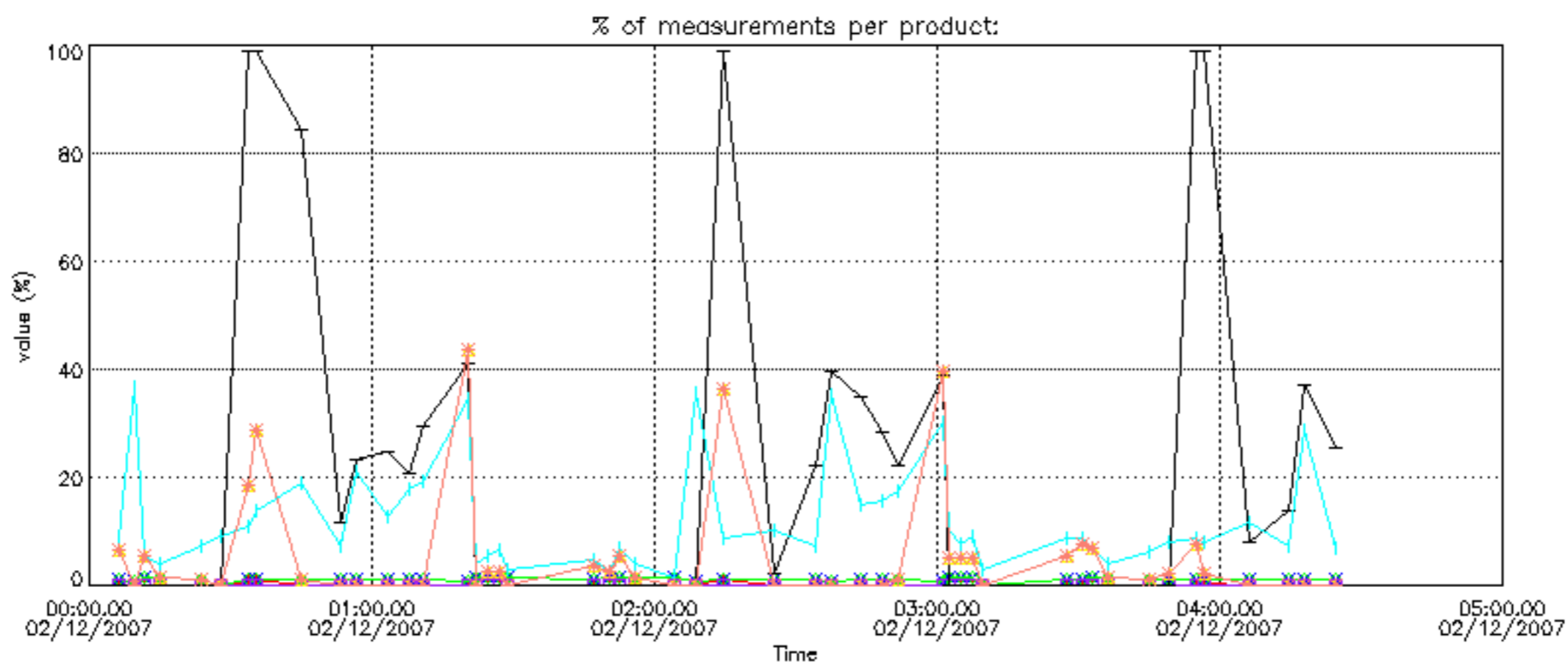
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-DEC-2007 00:06:21
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-DEC-2007 00:06:21
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-DEC-2007 00:06:21
ECMWF_FILE	AUX_ECF_AXNECM20071201_063112_20071201_210000_20071202_090000	1	02-DEC-2007 00:06:21
ECMWF_FILE	AUX_ECF_AXNECM20071201_180112_20071202_030000_20071202_150000	38	02-DEC-2007 03:27:32
OPTIONAL_ECMWF_FILE	MISSING	1	02-DEC-2007 00:06:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071201_205648_000063762063_00472_30085_4673.N1	1	02-DEC-2007 00:06:21
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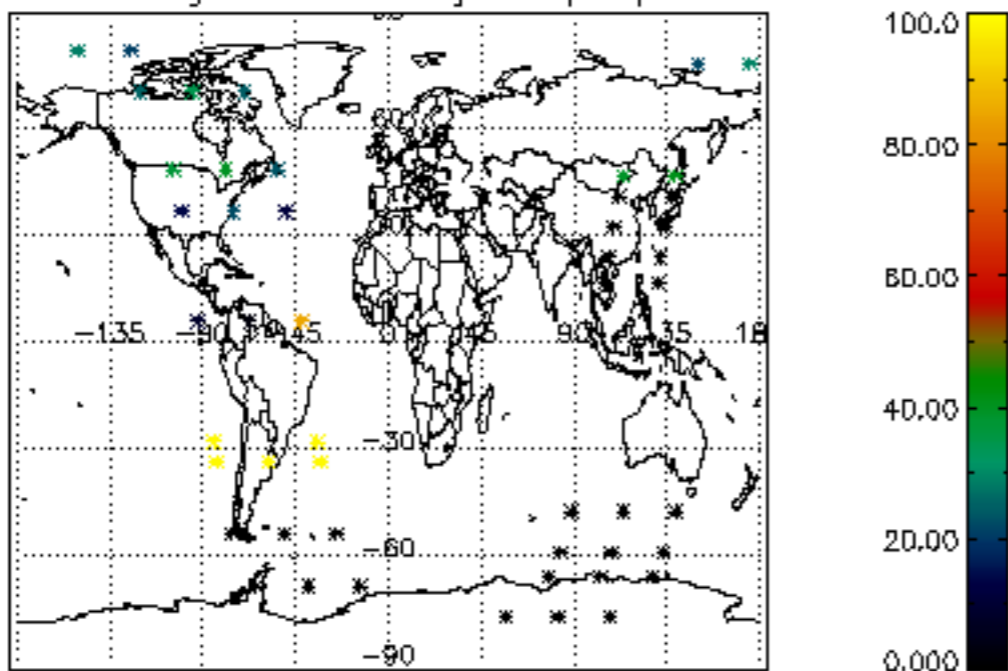




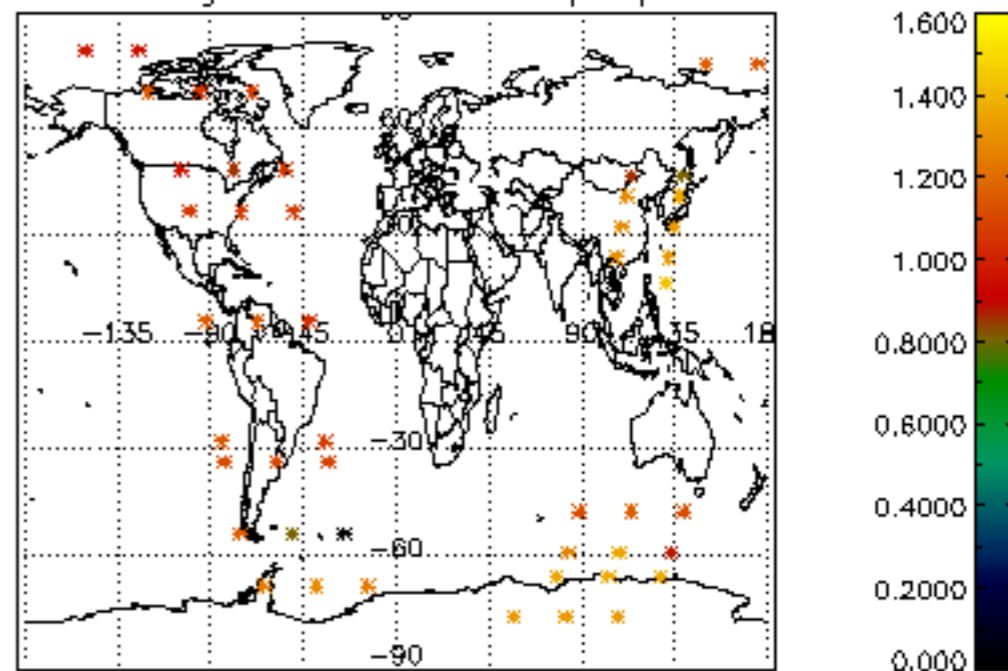




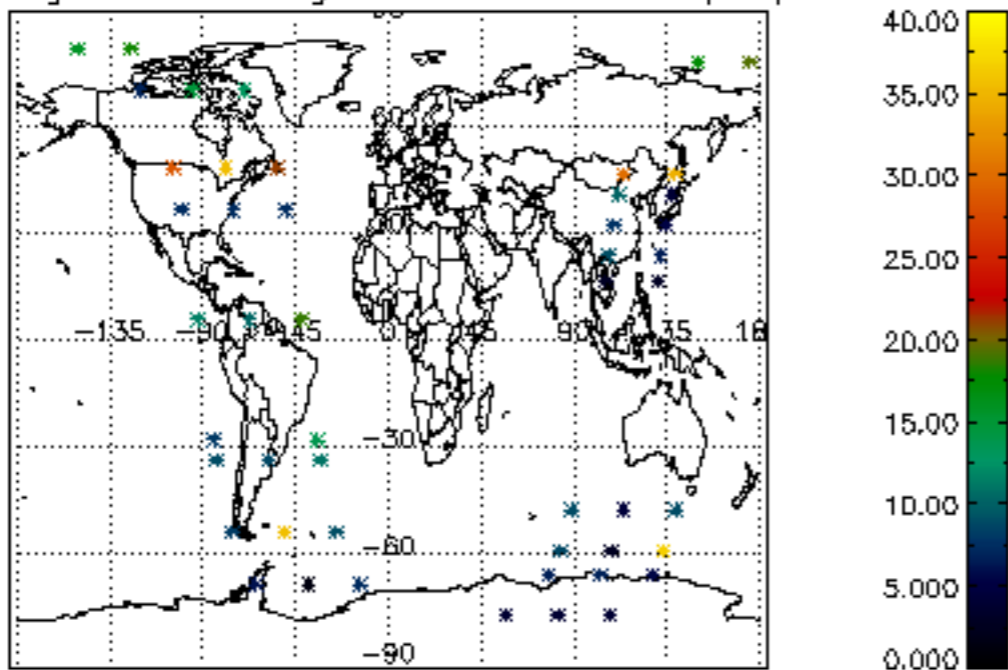
Percentage of cosmic ray hits per profile



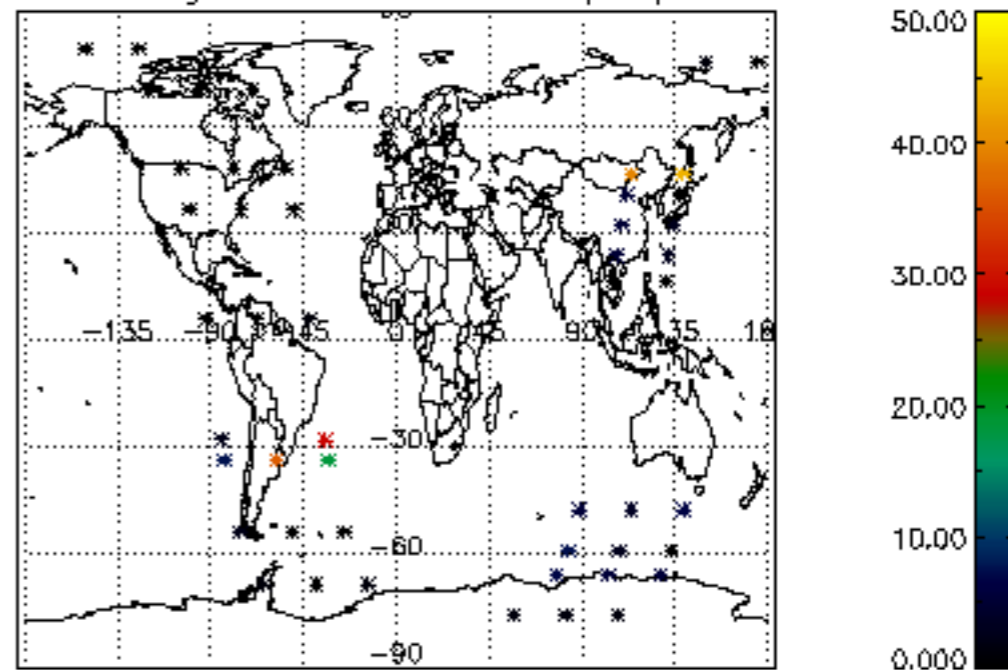
Percentage of datation errors per profile



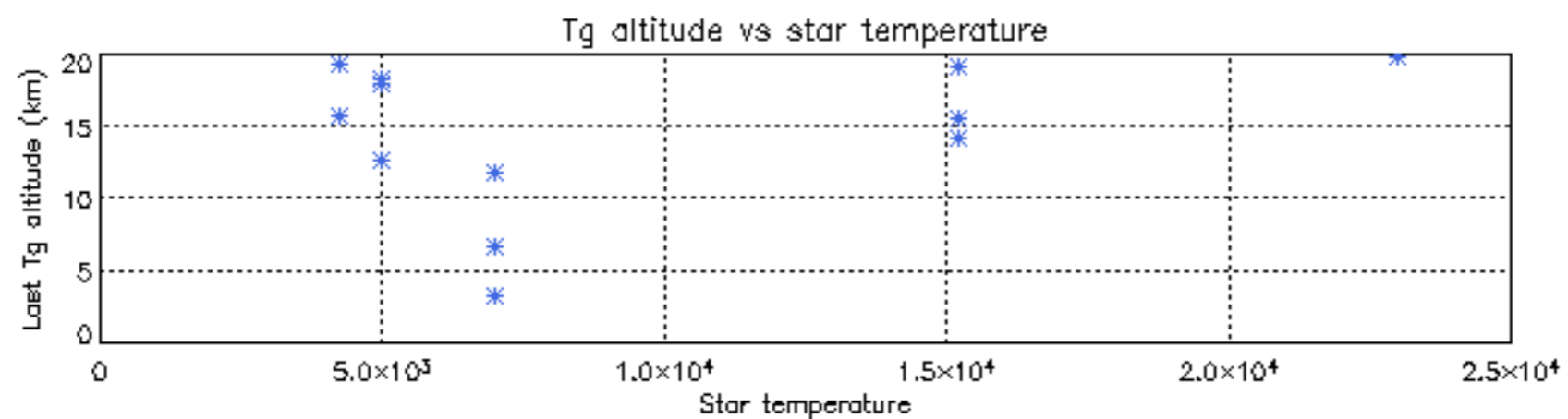
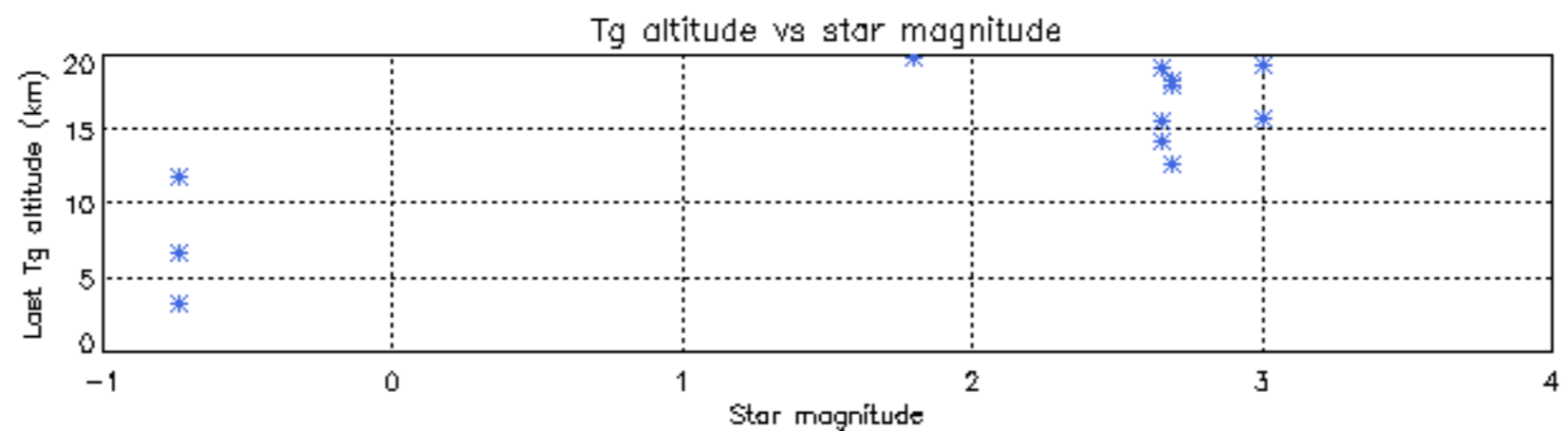
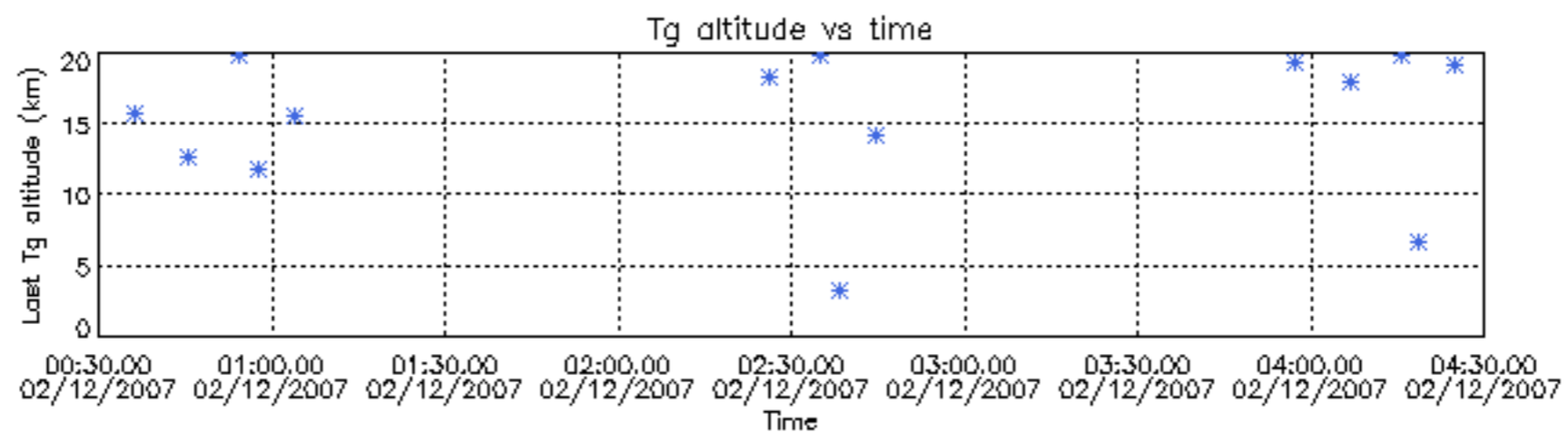
Percentage of star falling outside central band per profile



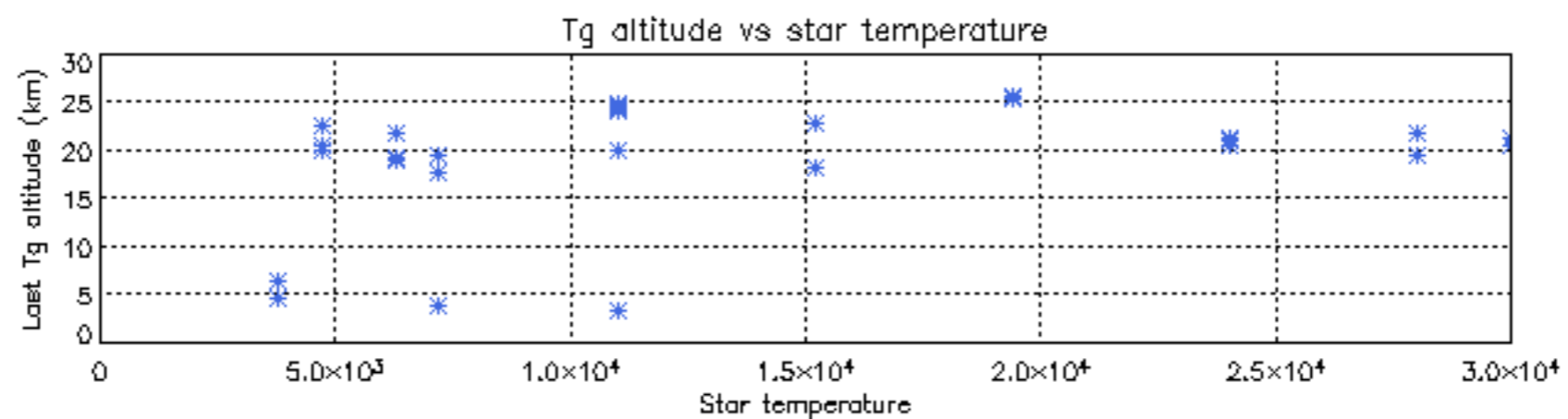
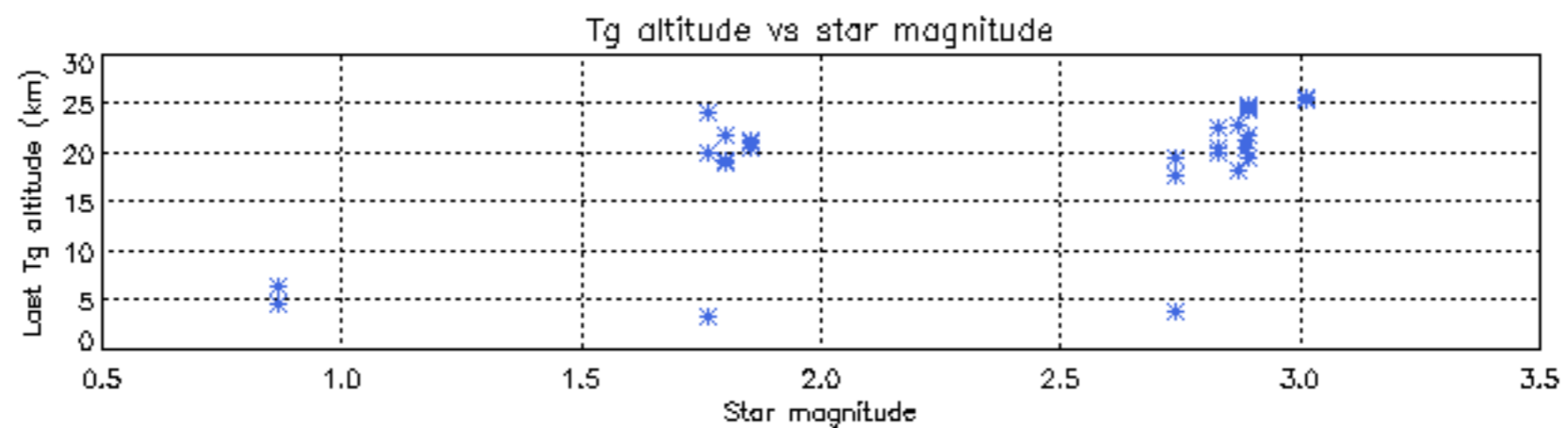
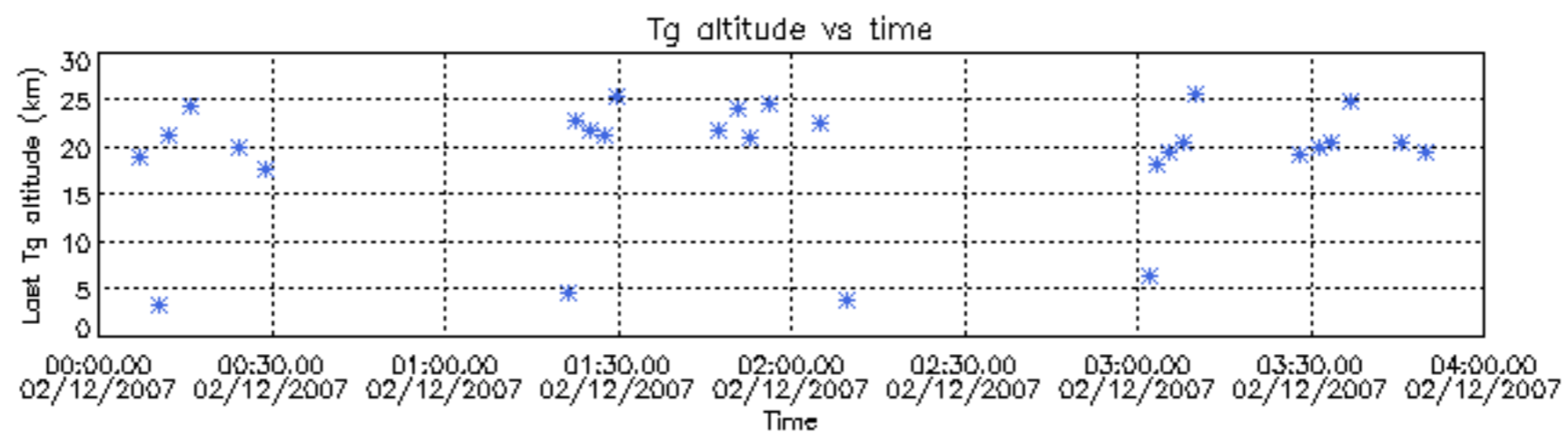
Percentage of saturation errors per profile



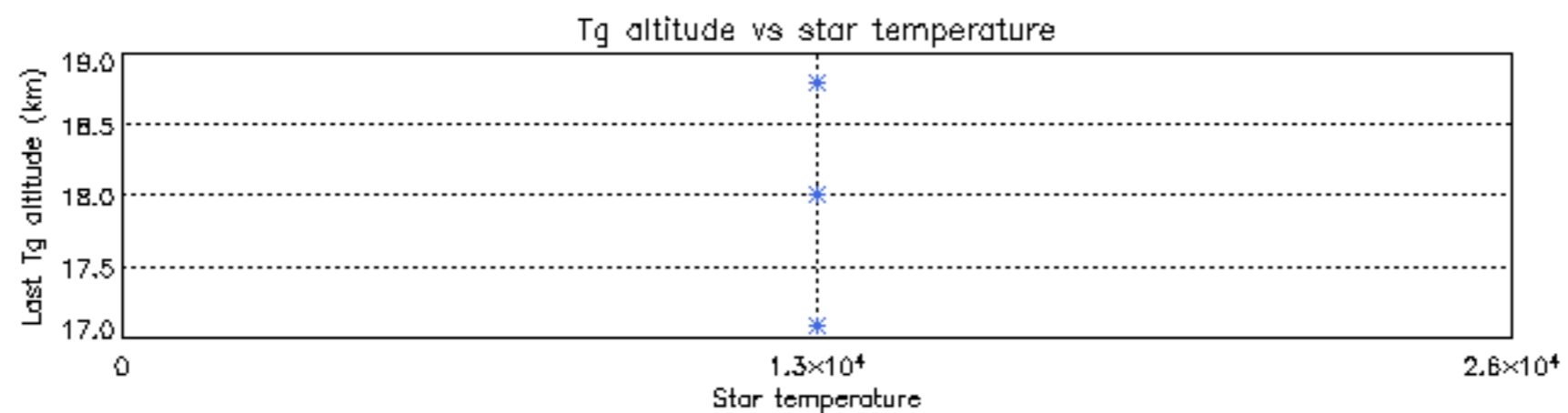
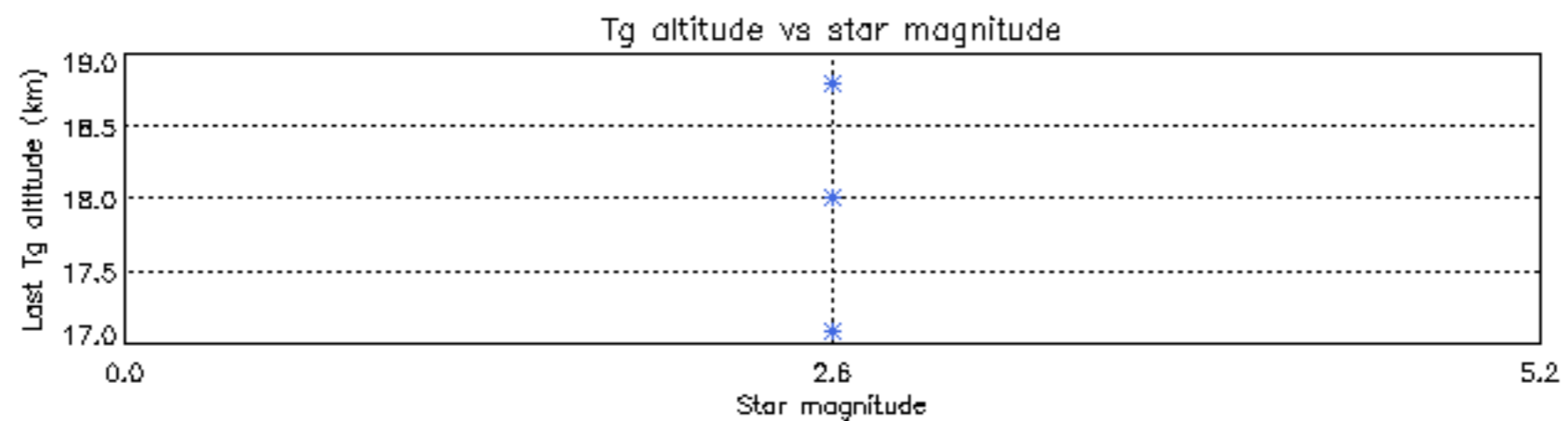
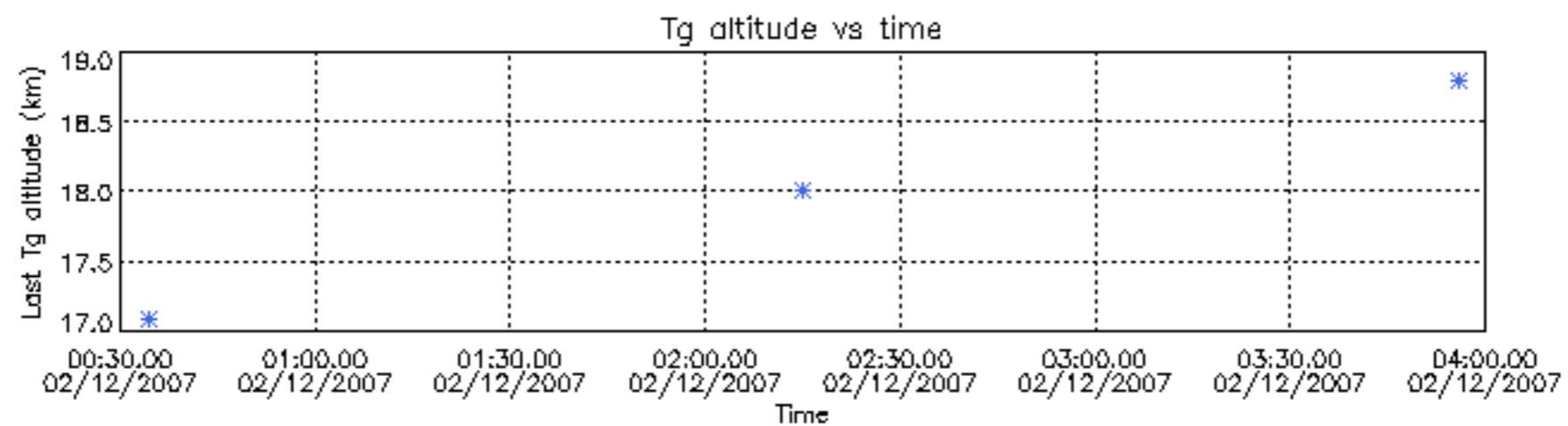
Tangent altitude at which the star is lost

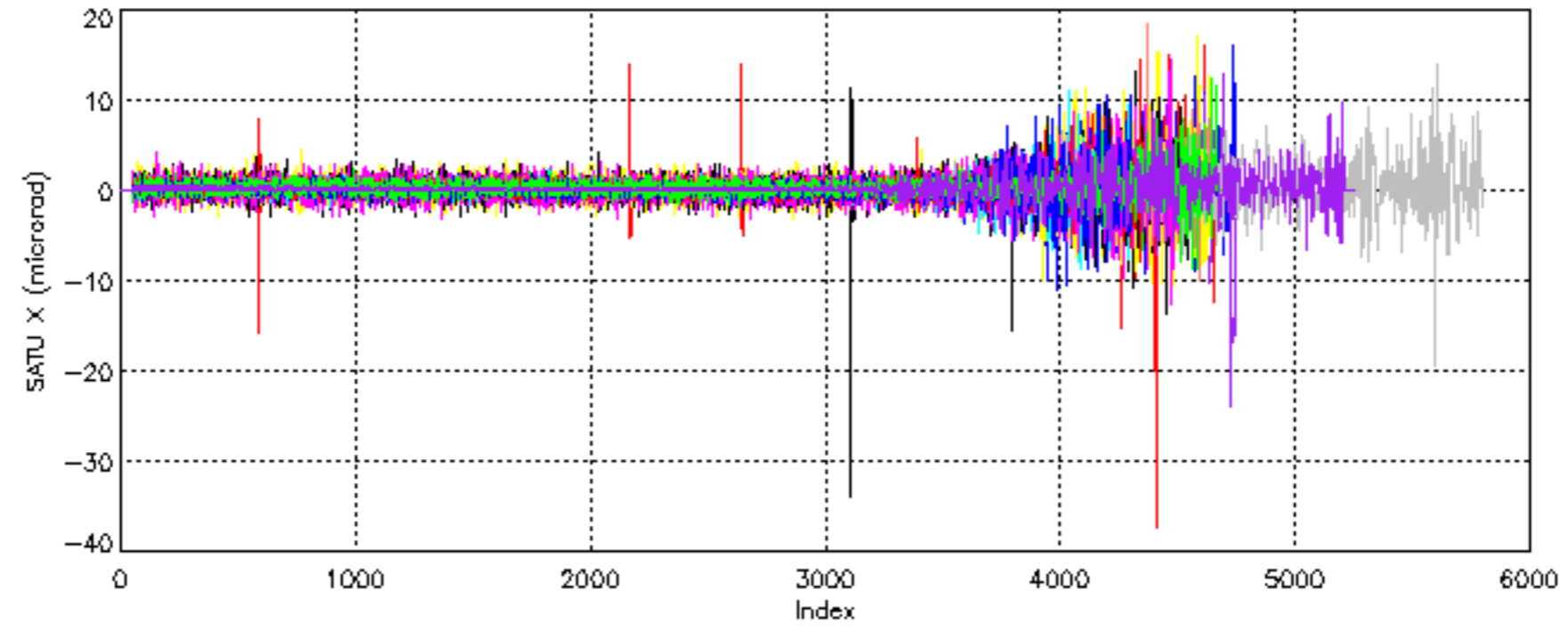


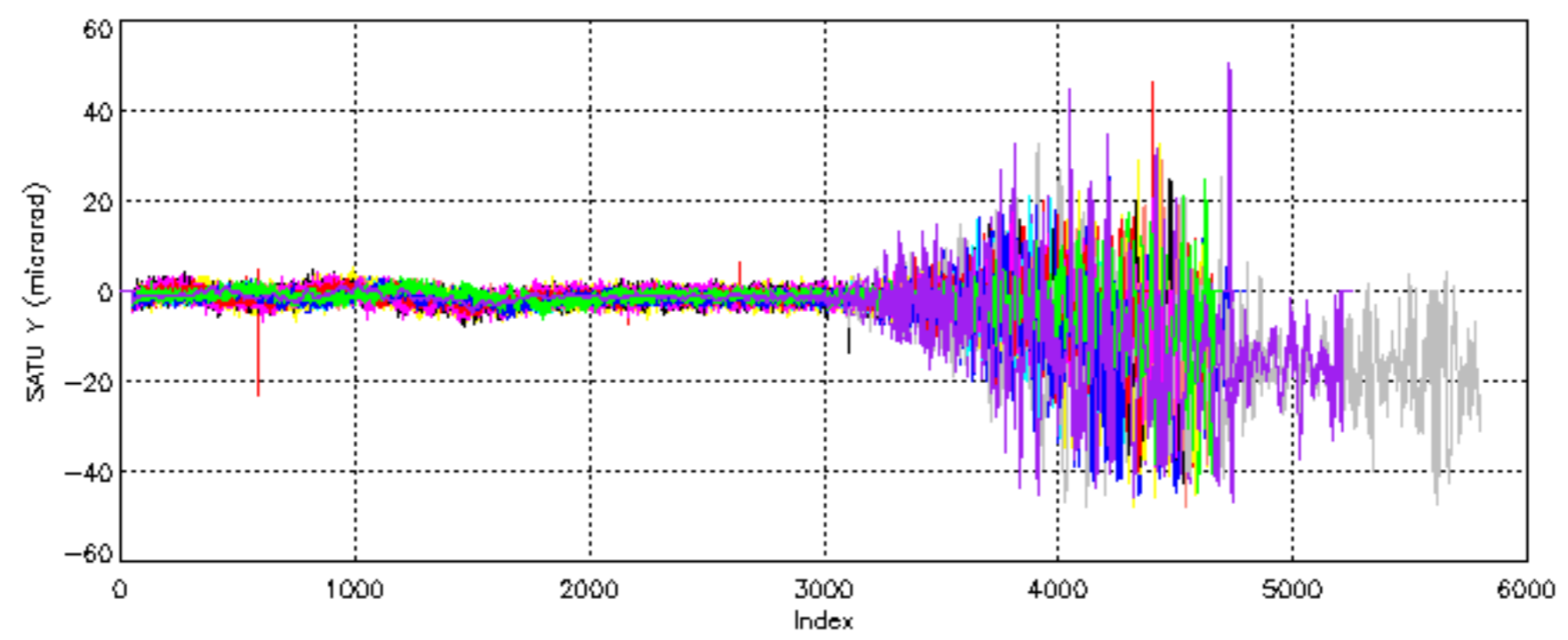
Tangent altitude at which the star is lost

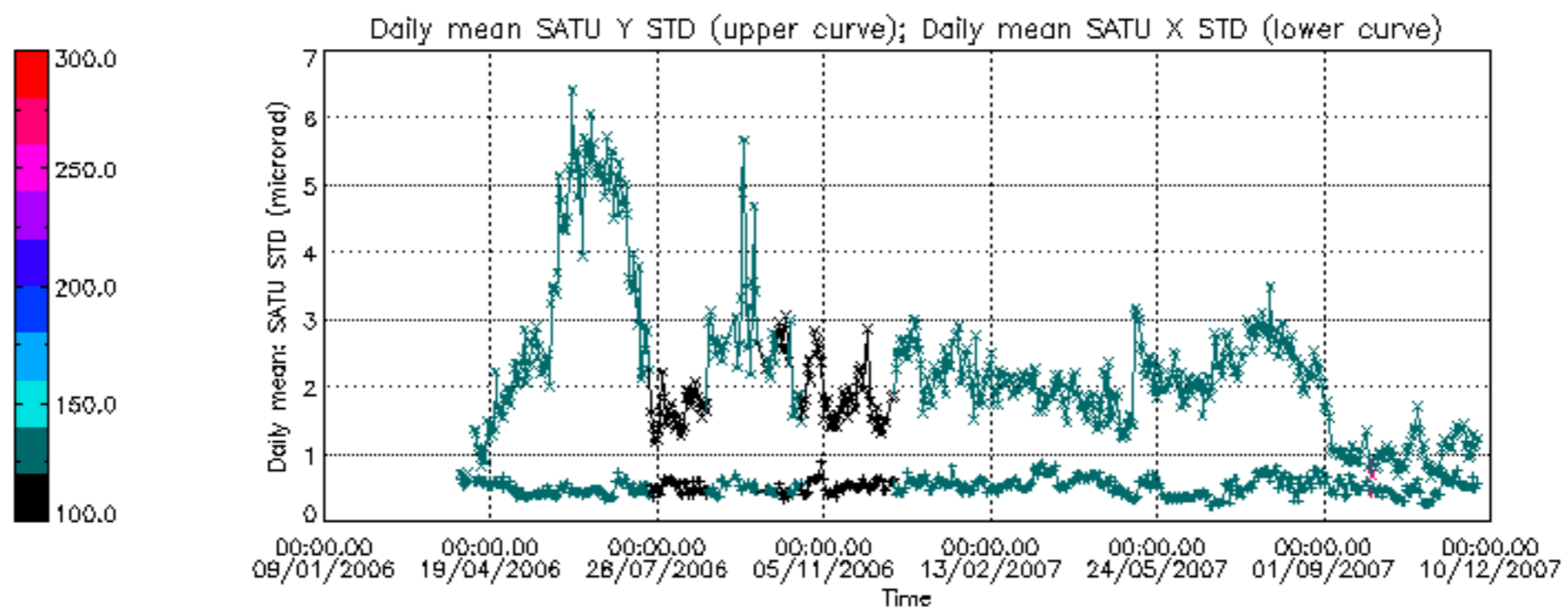


Tangent altitude at which the star is lost









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28; 7593.5; 12-DEC-2007 10:58:30; Dark ; 45.5; 101; 11Alp Lep ; 2.58; 7000;occ; 91; 0;30236

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17; 5696.3; 12-DEC-2007 13:48:04; Dark ; 39.5; 123; Iot Cen ; 2.75; 10200;occ; 79; 0;30238
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 22; 6572.9; 12-DEC-2007 15:43:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30239
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 13; 4140.2; 12-DEC-2007 16:43:20; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;30240
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 23; 6257.8; 12-DEC-2007 17:18:38; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;30240
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22; 3423.0; 28-DEC-2007 03:03:44; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30461

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6; -867.2; 28-DEC-2007 05:13:26; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;30462
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13; 381.7; 28-DEC-2007 05:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30463
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15; 4536.7; 28-DEC-2007 21:48:53; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;30472
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