

GOMOS Daily Report 26-NOV-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	29NOV2009 04:48:39
Data source version	GOMOS/5.00L04
Start time of products	26NOV2009 19:43:36
Stop time of products	26NOV2009 22:46:06
Store outputs in DB	Yes
Nb of level 1b prods	37
Nb of prods with errors	1

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

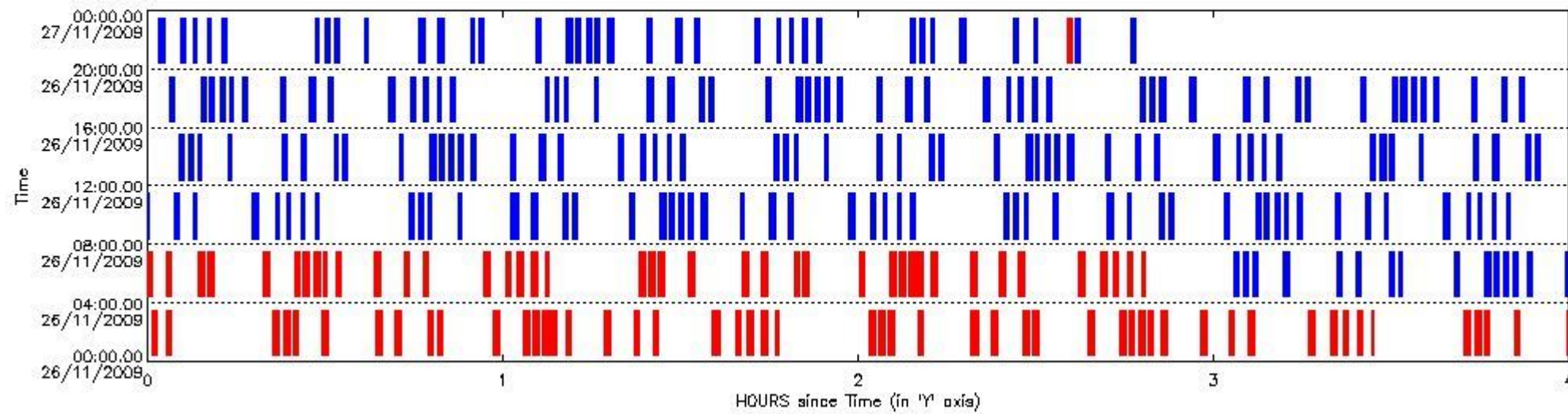
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
26-NOV-2009 00:00:37	26BetPer	79	40465
26-NOV-2009 00:03:01	39DelPer	175	40465
26-NOV-2009 00:21:10	50AlpUMa	36	40465
26-NOV-2009 00:22:48	48BetUMa	82	40465
26-NOV-2009 00:24:26	79ZetUMa	55	40465
26-NOV-2009 00:29:29	12Alp2CVn	152	40465
26-NOV-2009 00:38:24	94BetLeo	62	40465
26-NOV-2009 00:41:48	29GamVir	121	40465
26-NOV-2009 00:47:13	4GamCrv	100	40465
26-NOV-2009 00:48:48	2EpsCrv	171	40465
26-NOV-2009 00:58:16	MuVel	113	40466
26-NOV-2009 01:03:28	DSA1030	0	40466
26-NOV-2009 01:05:03	EpsCar	41	40466
26-NOV-2009 01:06:43	Gam2Vel	34	40466
26-NOV-2009 01:08:15	ZetPup	70	40466

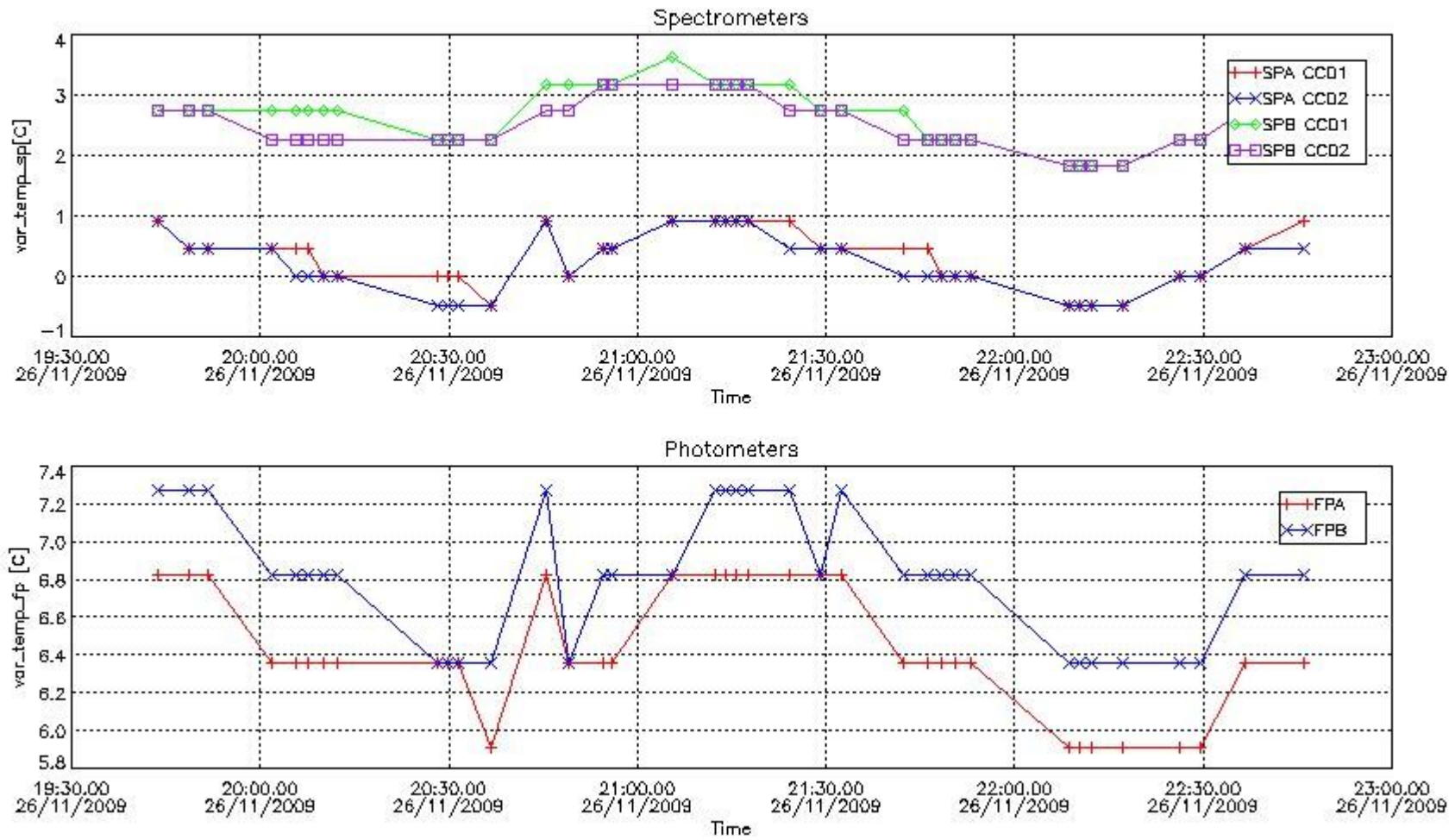
26-NOV-2009 01: 10: 30	AlpCar	2	40466
26-NOV-2009 01: 17: 03	AlpCol	108	40466
26-NOV-2009 01: 22: 01	9BetLep	139	40466
26-NOV-2009 01: 25: 14	34GamEri	165	40466
26-NOV-2009 01: 35: 23	87AlpTau	13	40466
26-NOV-2009 01: 39: 12	44ZetPer	150	40466
26-NOV-2009 01: 41: 13	26BetPer	79	40466
26-NOV-2009 01: 43: 36	39DelPer	175	40466
26-NOV-2009 01: 46: 01	13AlpAur	6	40466
26-NOV-2009 02: 01: 46	50AlpUMa	36	40466
26-NOV-2009 02: 03: 24	48BetUMa	82	40466
26-NOV-2009 02: 05: 02	79ZetUMa	55	40466
26-NOV-2009 02: 10: 05	12Alp2CVn	152	40466
26-NOV-2009 02: 19: 00	94BetLeo	62	40466
26-NOV-2009 02: 22: 24	29GamVir	121	40466
26-NOV-2009 02: 27: 50	4GamCrv	100	40466
26-NOV-2009 02: 29: 24	2EpsCrv	171	40466
26-NOV-2009 02: 38: 52	MuVel	113	40467
26-NOV-2009 02: 44: 05	DSA1030	0	40467
26-NOV-2009 02: 45: 39	EpsCar	41	40467
26-NOV-2009 02: 47: 19	Gam2Vel	34	40467
26-NOV-2009 02: 48: 52	ZetPup	70	40467
26-NOV-2009 02: 51: 06	AlpCar	2	40467
26-NOV-2009 02: 57: 39	AlpCol	108	40467
26-NOV-2009 03: 02: 37	9BetLep	139	40467
26-NOV-2009 03: 05: 50	34GamEri	165	40467
26-NOV-2009 03: 15: 59	87AlpTau	13	40467
26-NOV-2009 03: 19: 47	44ZetPer	150	40467
26-NOV-2009 03: 21: 49	26BetPer	79	40467
26-NOV-2009 03: 24: 12	39DelPer	175	40467
26-NOV-2009 03: 26: 36	13AlpAur	6	40467
26-NOV-2009 03: 42: 22	50AlpUMa	36	40467
26-NOV-2009 03: 43: 59	48BetUMa	82	40467
26-NOV-2009 03: 45: 38	79ZetUMa	55	40467
26-NOV-2009 03: 50: 41	12Alp2CVn	152	40467
26-NOV-2009 03: 59: 37	94BetLeo	62	40467
26-NOV-2009 04: 03: 01	29GamVir	121	40467
26-NOV-2009 04: 08: 27	4GamCrv	100	40467
26-NOV-2009 04: 10: 01	2EpsCrv	171	40467
26-NOV-2009 04: 19: 29	MuVel	113	40468
26-NOV-2009 04: 24: 42	DSA1030	0	40468
26-NOV-2009 04: 26: 16	EpsCar	41	40468
26-NOV-2009 04: 27: 56	Gam2Vel	34	40468
26-NOV-2009 04: 29: 29	ZetPup	70	40468
26-NOV-2009 04: 31: 43	AlpCar	2	40468
26-NOV-2009 04: 38: 16	AlpCol	108	40468
26-NOV-2009 04: 43: 13	9BetLep	139	40468
26-NOV-2009 04: 46: 26	34GamEri	165	40468
26-NOV-2009 04: 56: 34	87AlpTau	13	40468
26-NOV-2009 05: 00: 23	44ZetPer	150	40468
26-NOV-2009 05: 02: 25	26BetPer	79	40468
26-NOV-2009 05: 04: 48	39DelPer	175	40468
26-NOV-2009 05: 07: 11	13AlpAur	6	40468
26-NOV-2009 05: 22: 57	50AlpUMa	36	40468
26-NOV-2009 05: 24: 35	48BetUMa	82	40468
26-NOV-2009 05: 26: 14	79ZetUMa	55	40468
26-NOV-2009 05: 31: 17	12Alp2CVn	152	40468
26-NOV-2009 05: 40: 13	94BetLeo	62	40468
26-NOV-2009 05: 43: 37	29GamVir	121	40468

26-NOV-2009 05:49:03	4GamCrv	100	40468
26-NOV-2009 05:50:38	2EpsCrv	171	40468
26-NOV-2009 06:00:06	MuVel	113	40469
26-NOV-2009 06:05:19	DSA1030	0	40469
26-NOV-2009 06:06:52	EpsCar	41	40469
26-NOV-2009 06:08:33	Gam2Vel	34	40469
26-NOV-2009 06:10:06	ZetPup	70	40469
26-NOV-2009 06:12:19	AlpCar	2	40469
26-NOV-2009 06:18:52	AlpCol	108	40469
26-NOV-2009 06:23:49	9BetLep	139	40469
26-NOV-2009 06:27:02	34GamEri	165	40469
26-NOV-2009 06:37:09	87AlpTau	13	40469
26-NOV-2009 06:40:59	44ZetPer	150	40469
26-NOV-2009 06:43:01	26BetPer	79	40469
26-NOV-2009 06:45:23	39DelPer	175	40469
26-NOV-2009 06:47:46	13AlpAur	6	40469
26-NOV-2009 22:35:09	4GamCrv	100	40478

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_1PNPDE20091126_194336_000000492084_00343_40477_4715.N1	26-NOV-2009 19:43:36	Dark	49.000	108	Alp Col	2.6520	15200.	98	40477	No
2	GOM_TRA_1PNPDE20091126_194832_000000552084_00343_40477_4716.N1	26-NOV-2009 19:48:32	Straylight	55.000	139	9Bet Lep	2.8330	5600.0	110	40477	No
3	GOM_TRA_1PNPDE20091126_195143_000000462084_00343_40477_4717.N1	26-NOV-2009 19:51:43	Straylight	45.500	165	34Gam Eri	2.9500	3200.0	91	40477	No
4	GOM_TRA_1PNPDE20091126_200147_000000582084_00343_40477_4718.N1	26-NOV-2009 20:01:47	Bright	57.500	13	87Alp Tau	0.86700	3800.0	115	40477	No
5	GOM_TRA_1PNPDE20091126_200537_000000402084_00343_40477_4719.N1	26-NOV-2009 20:05:37	Bright	39.500	150	44Zet Per	2.8900	28000.	79	40477	No
6	GOM_TRA_1PNPDE20091126_200740_000000392084_00343_40477_4720.N1	26-NOV-2009 20:07:40	Bright	38.500	79	26Bet Per	2.3100	13100.	77	40477	No
7	GOM_TRA_1PNPDE20091126_201002_000000372084_00343_40477_4721.N1	26-NOV-2009 20:10:02	Bright	37.000	175	39Del Per	3.0100	19400.	74	40477	No
8	GOM_TRA_1PNPDE20091126_201221_000000522084_00343_40477_4722.N1	26-NOV-2009 20:12:21	Bright	52.000	6	13Alp Aur	0.080000	3400.0	104	40477	No
9	GOM_TRA_1PNPDE20091126_202811_000000422084_00343_40477_4723.N1	26-NOV-2009 20:28:11	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	40477	No
10	GOM_TRA_1PNPDE20091126_202949_000000472084_00343_40477_4724.N1	26-NOV-2009 20:29:49	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	40477	No
11	GOM_TRA_1PNPDE20091126_203131_000000542084_00343_40477_4725.N1	26-NOV-2009 20:31:31	Bright	54.000	55	79Zet UMa	2.0600	10200.	108	40477	No
12	GOM_TRA_1PNPDE20091126_203634_000000372084_00343_40477_4726.N1	26-NOV-2009 20:36:34	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	40477	No
13	GOM_TRA_1PNPDE20091126_204535_000000732084_00343_40477_4733.N1	26-NOV-2009 20:45:35	Bright	73.000	62	94Bet Leo	2.1360	9700.0	146	40477	Yes
14	GOM_TRA_1PNPDE20091126_204858_000000592084_00343_40477_4734.N1	26-NOV-2009 20:48:58	Bright	58.500	121	29Gam Vir	2.7400	7200.0	117	40477	No
15	GOM_TRA_1PNPDE20091126_205426_000000462084_00343_40477_4735.N1	26-NOV-2009 20:54:26	Twilight_stray	45.500	100	4Gam Crv	2.5800	13100.	91	40477	No
16	GOM_TRA_1PNPDE20091126_205600_000000462084_00343_40477_4736.N1	26-NOV-2009 20:56:00	Dark	46.000	171	2Eps Crv	3.0010	4250.0	92	40477	No
17	GOM_TRA_1PNPDE20091126_210529_000000452084_00344_40478_4737.N1	26-NOV-2009 21:05:29	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	40478	No
18	GOM_TRA_1PNPDE20091126_211215_000000492084_00344_40478_4738.N1	26-NOV-2009 21:12:15	Dark	48.500	41	Eps Car	1.8600	4100.0	97	40478	No
19	GOM_TRA_1PNPDE20091126_211358_000000522084_00344_40478_4739.N1	26-NOV-2009 21:13:58	Dark	52.000	34	Gam2Vel	1.7930	23000.	104	40478	No
20	GOM_TRA_1PNPDE20091126_211533_000000472084_00344_40478_4740.N1	26-NOV-2009 21:15:33	Dark	47.000	70	Zet Pup	2.2460	39000.	94	40478	No
21	GOM_TRA_1PNPDE20091126_211741_000000592084_00344_40478_4741.N1	26-NOV-2009 21:17:41	Dark	59.000	2	Alp Car	-0.73600	7000.0	118	40478	No
22	GOM_TRA_1PNPDE20091126_212413_000000492084_00344_40478_4742.N1	26-NOV-2009 21:24:13	Dark	49.000	108	Alp Col	2.6520	15200.	98	40478	No
23	GOM_TRA_1PNPDE20091126_212908_000000572084_00344_40478_4743.N1	26-NOV-2009 21:29:08	Straylight	56.500	139	9Bet Lep	2.8330	5600.0	113	40478	No
24	GOM_TRA_1PNPDE20091126_213219_000000472084_00344_40478_4744.N1	26-NOV-2009 21:32:19	Straylight	46.500	165	34Gam Eri	2.9500	3200.0	93	40478	No
25	GOM_TRA_1PNPDE20091126_214222_000000552084_00344_40478_4745.N1	26-NOV-2009 21:42:22	Bright	55.000	13	87Alp Tau	0.86700	3800.0	110	40478	No
26	GOM_TRA_1PNPDE20091126_214613_000000412084_00344_40478_4746.N1	26-NOV-2009 21:46:13	Bright	40.500	150	44Zet Per	2.8900	28000.	81	40478	No
27	GOM_TRA_1PNPDE20091126_214816_000000392084_00344_40478_4747.N1	26-NOV-2009 21:48:16	Bright	39.000	79	26Bet Per	2.3100	13100.	78	40478	No
28	GOM_TRA_1PNPDE20091126_215038_000000352084_00344_40478_4748.N1	26-NOV-2009 21:50:38	Bright	35.000	175	39Del Per	3.0100	19400.	70	40478	No
29	GOM_TRA_1PNPDE20091126_215256_000000532084_00344_40478_4749.N1	26-NOV-2009 21:52:56	Bright	52.500	6	13Alp Aur	0.080000	3400.0	105	40478	No
30	GOM_TRA_1PNPDE20091126_220847_000000462084_00344_40478_4750.N1	26-NOV-2009 22:08:47	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	40478	No
31	GOM_TRA_1PNPDE20091126_221025_000000442084_00344_40478_4751.N1	26-NOV-2009 22:10:25	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	40478	No
32	GOM_TRA_1PNPDE20091126_221207_000000392084_00344_40478_4752.N1	26-NOV-2009 22:12:07	Bright	39.000	55	79Zet UMa	2.0600	10200.	78	40478	No
33	GOM_TRA_1PNPDE20091126_221710_000000562084_00344_40478_4753.N1	26-NOV-2009 22:17:10	Bright	56.000	152	12Alp2CVn	2.8900	11000.	112	40478	No
34	GOM_TRA_1PNPDE20091126_222612_000000542084_00344_40478_4754.N1	26-NOV-2009 22:26:12	Bright	54.000	62	94Bet Leo	2.1360	9700.0	108	40478	No
35	GOM_TRA_1PNPDE20091126_222935_000000402084_00344_40478_4755.N1	26-NOV-2009 22:29:35	Bright	39.500	121	29Gam Vir	2.7400	7200.0	79	40478	No
36	GOM_TRA_1PNPDE20091126_223637_000000462084_00344_40478_4756.N1	26-NOV-2009 22:36:37	Dark	45.500	171	2Eps Crv	3.0010	4250.0	91	40478	No
37	GOM_TRA_1PNPDE20091126_224606_000000442084_00345_40479_4757.N1	26-NOV-2009 22:46:06	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	40479	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).

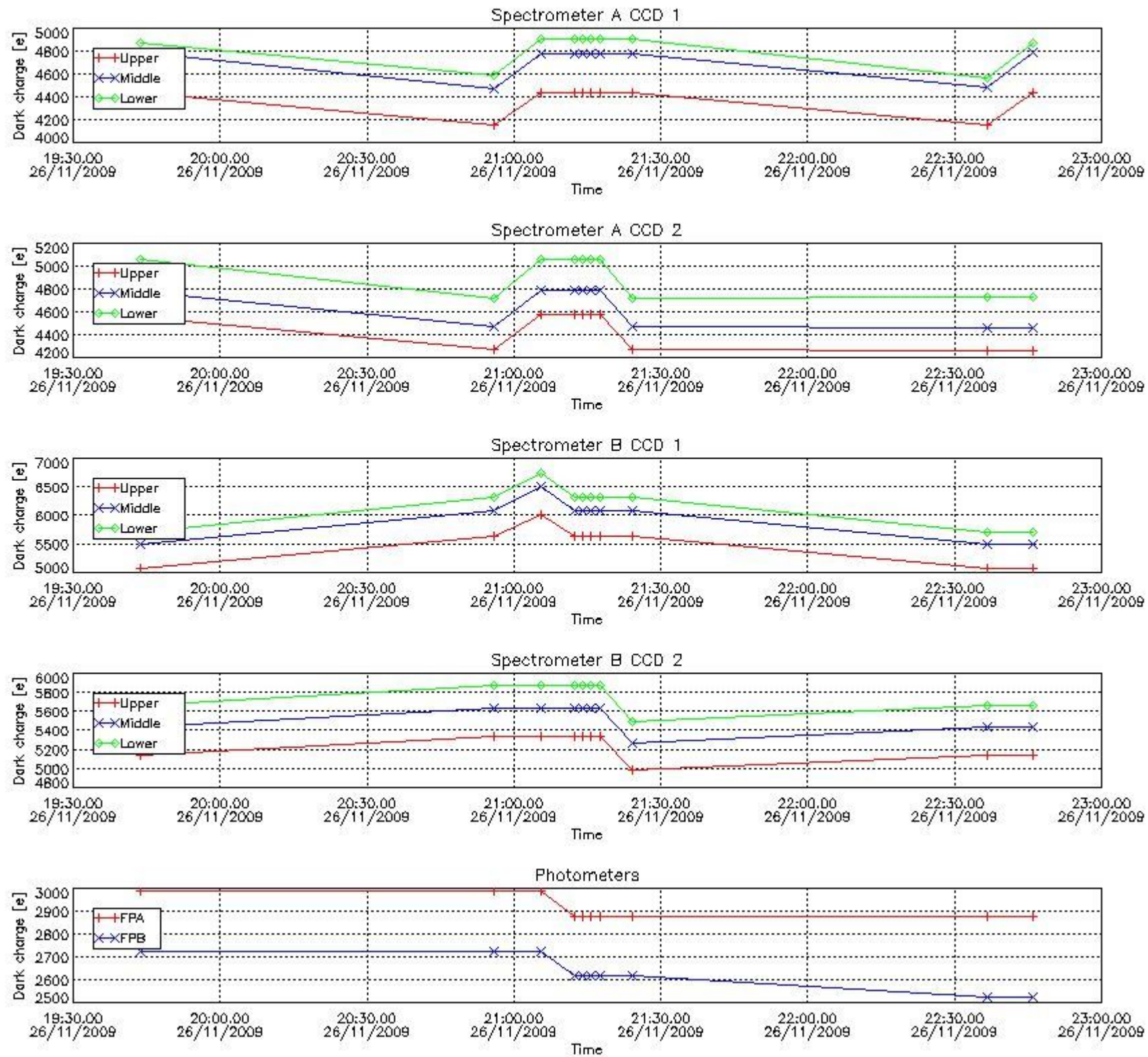
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20091126_194336_000000492084_00343_40477_4715.N1	DC map used
GOM_TRA_1PNPDE20091126_194832_00000052084_00343_40477_4716.N1	DC map used
GOM_TRA_1PNPDE20091126_195143_000000462084_00343_40477_4717.N1	DC map used
GOM_TRA_1PNPDE20091126_200147_000000582084_00343_40477_4718.N1	DC map used
GOM_TRA_1PNPDE20091126_200537_000000402084_00343_40477_4719.N1	DC map used
GOM_TRA_1PNPDE20091126_200740_000000392084_00343_40477_4720.N1	DC map used
GOM_TRA_1PNPDE20091126_201002_000000372084_00343_40477_4721.N1	DC map used
GOM_TRA_1PNPDE20091126_201221_000000522084_00343_40477_4722.N1	DC map used
GOM_TRA_1PNPDE20091126_202811_000000422084_00343_40477_4723.N1	DC map used
GOM_TRA_1PNPDE20091126_202949_000000472084_00343_40477_4724.N1	DC map used
GOM_TRA_1PNPDE20091126_203131_000000542084_00343_40477_4725.N1	DC map used

GOM_TRA_1PNPDE20091126_203634_000000372084_00343_40477_4726.N1	DC map used
GOM_TRA_1PNPDE20091126_223637_000000462084_00344_40478_4756.N1	DC map used
GOM_TRA_1PNPDE20091126_224606_000000442084_00345_40479_4757.N1	DC map used

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



5. Demodulation flag and quality information monitoring

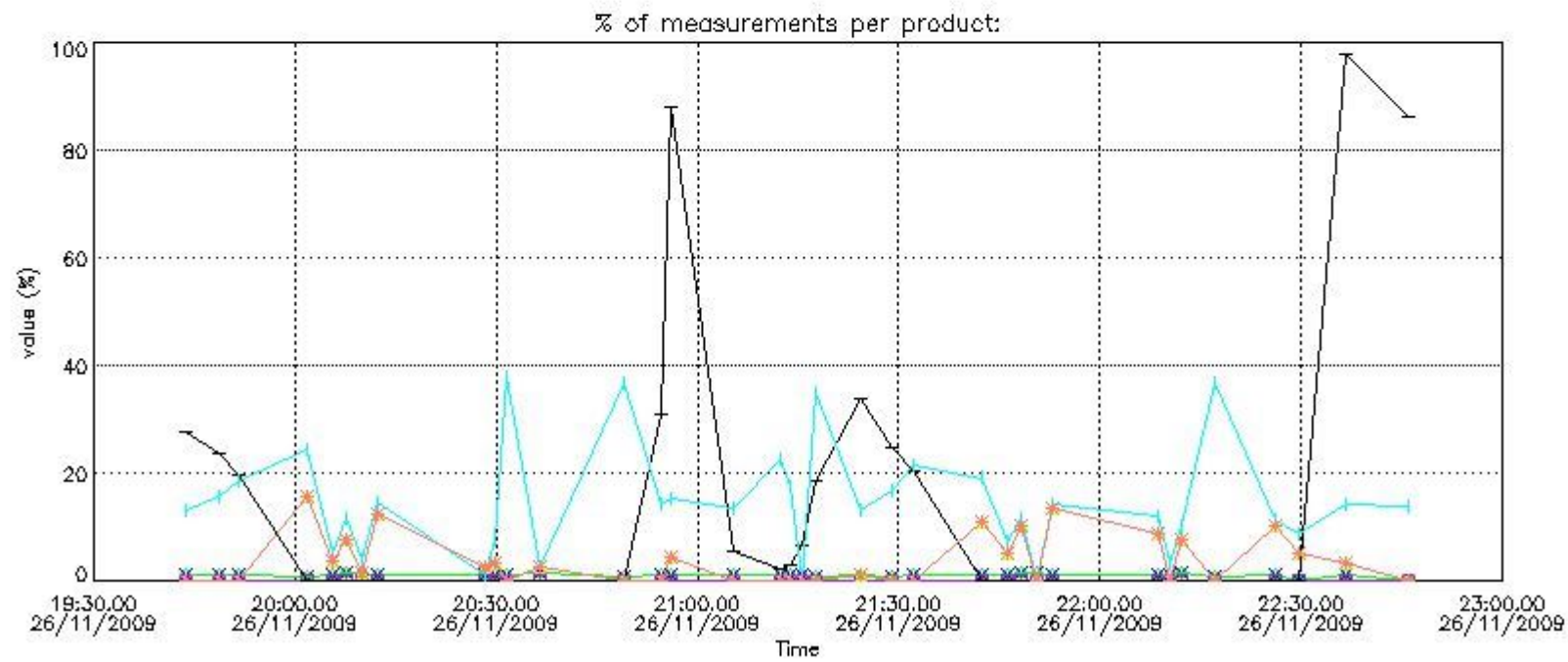
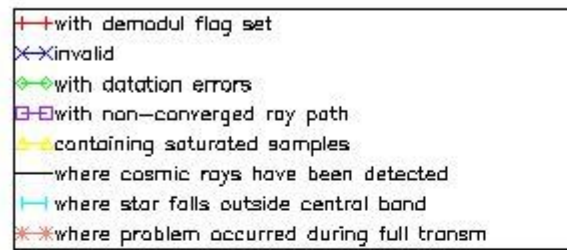
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors

(error flag in the MPH set to "0") are used.

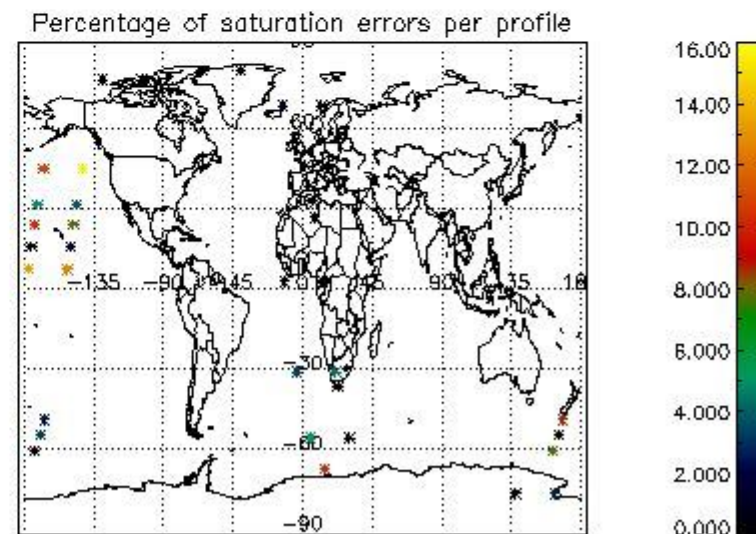
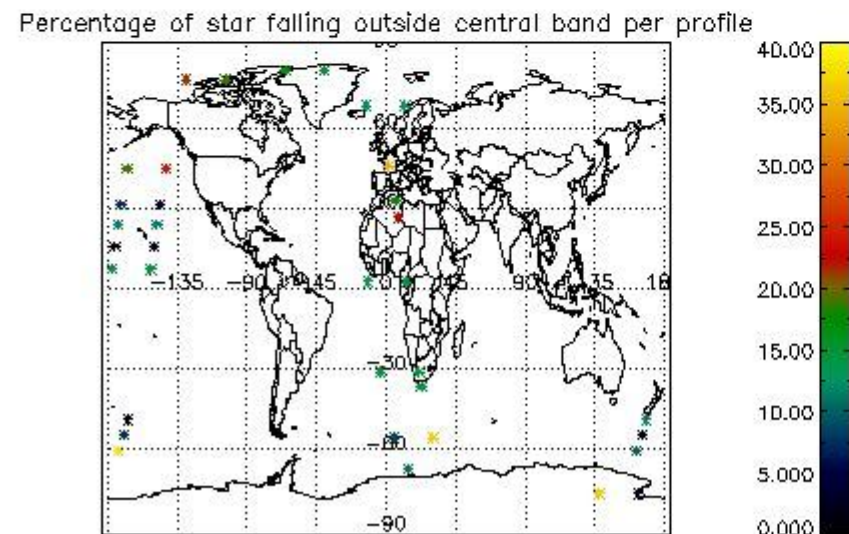
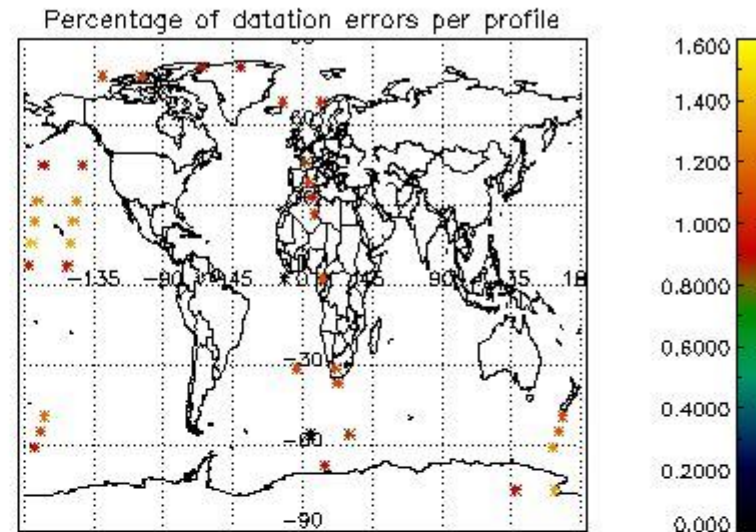
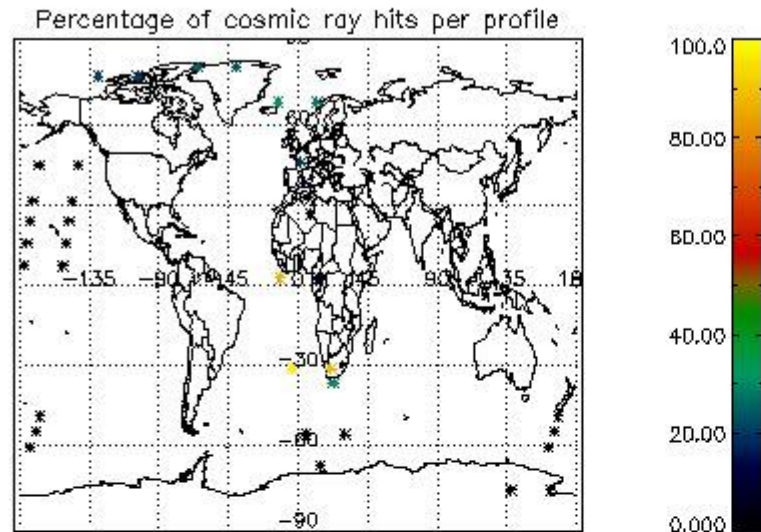
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.1111 %
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)



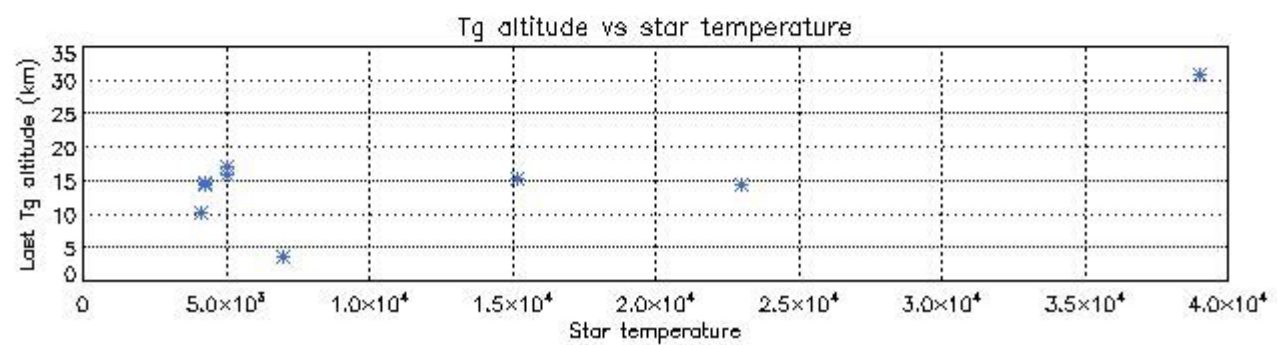
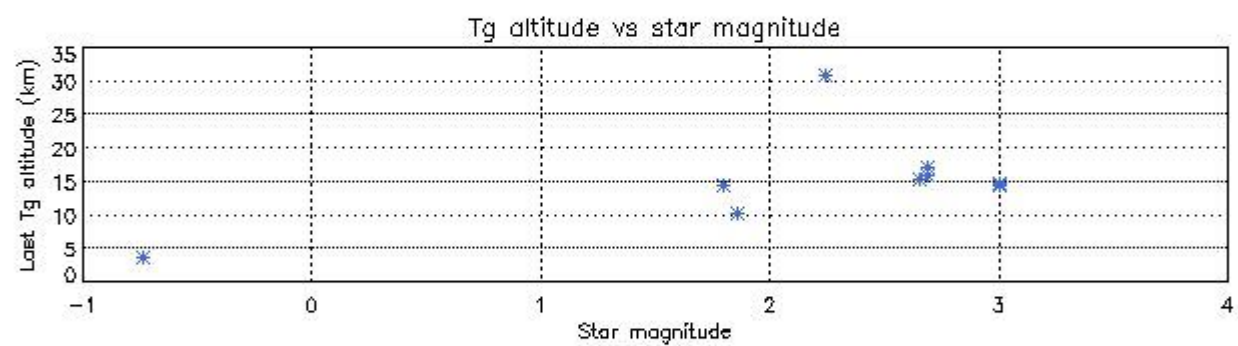
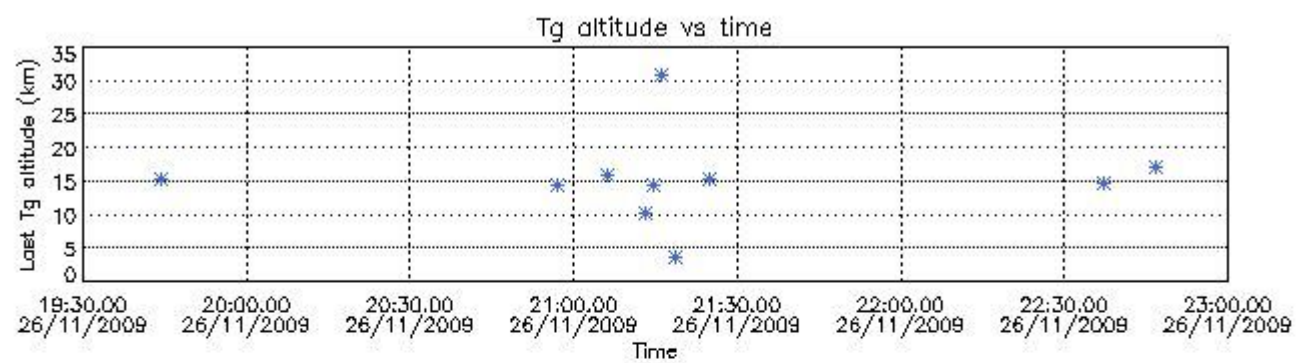
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.102	16.749	NaN
St. deviation:	6.7512	6.8723	NaN
Maximum:	30.781	27.933	NaN
Minimum:	3.5336	3.5790	NaN
Number of data:	10.000	21.000	NaN

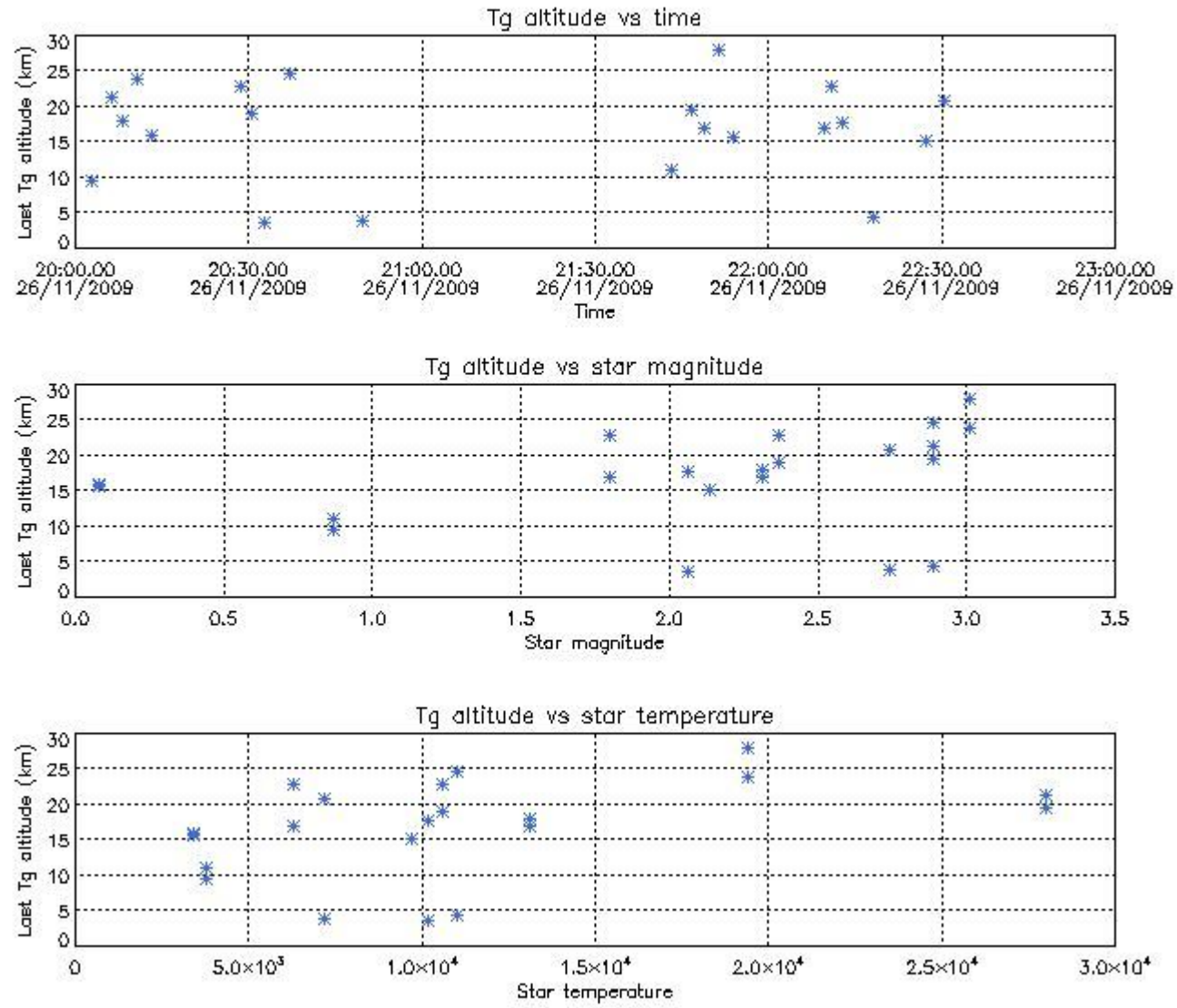
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

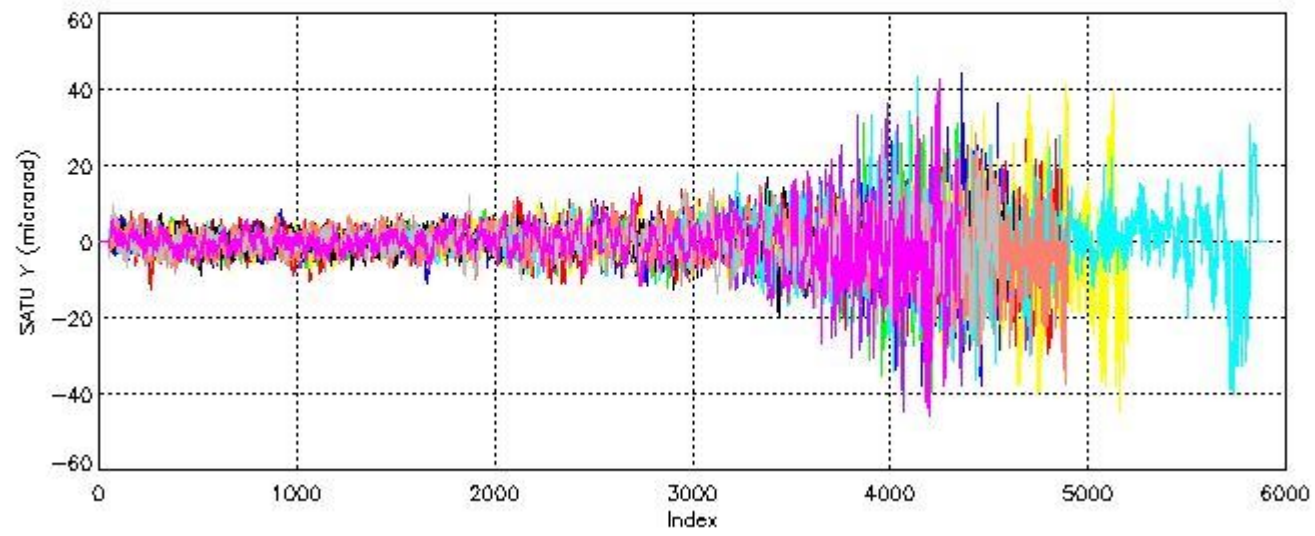
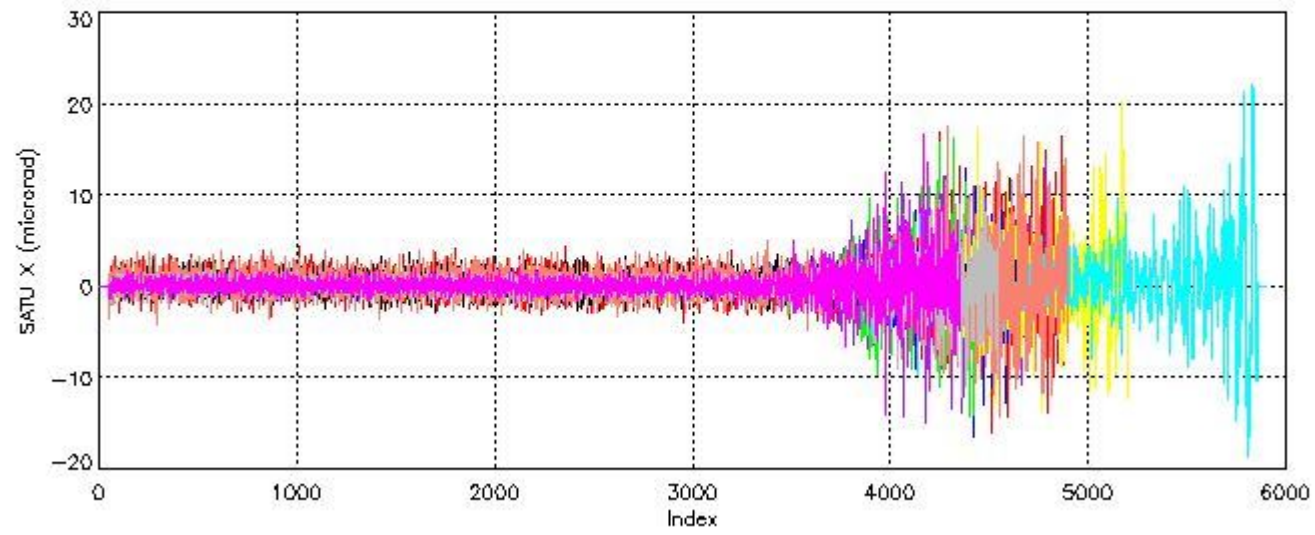


7. Star Acquisition and Tracking Unit (SATU)

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:	0.22963	-0.29289	0.18199	-0.13566
St. deviation:	0.65553	2.3494	0.94620	2.5887
Maximum:	4.3000	9.3000	6.3000	12.200
Minimum:	-4.2000	-12.600	-5.9000	-11.700

Number of data:	10450.	10450.	20650.	20650.
-----------------	--------	--------	--------	--------

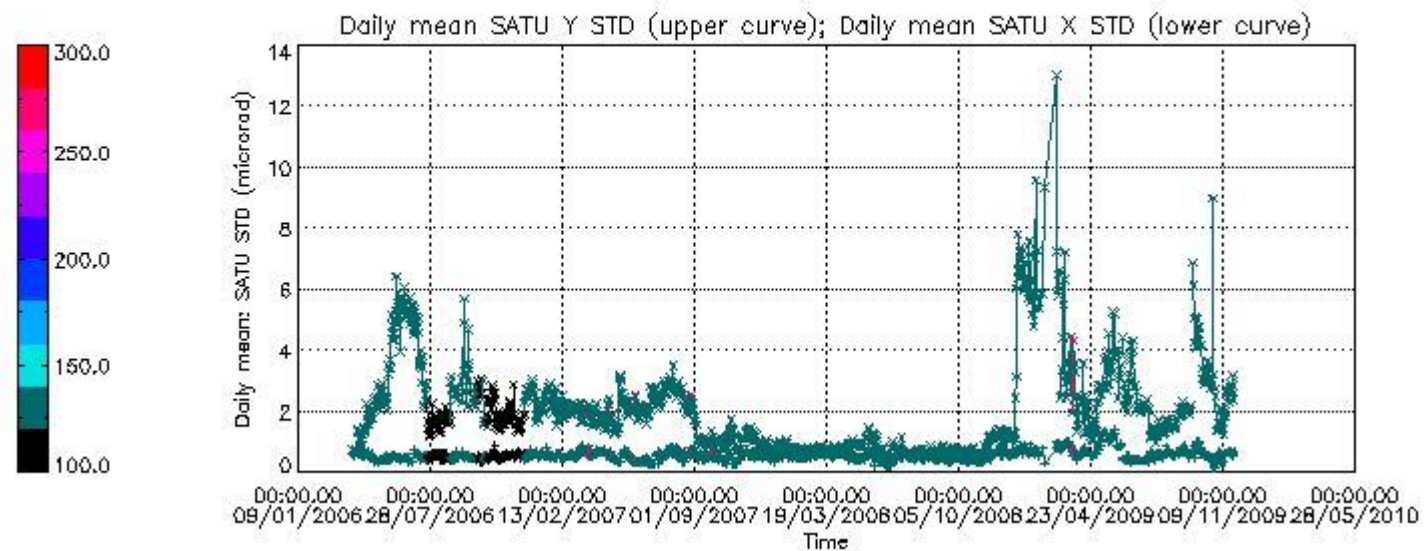
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

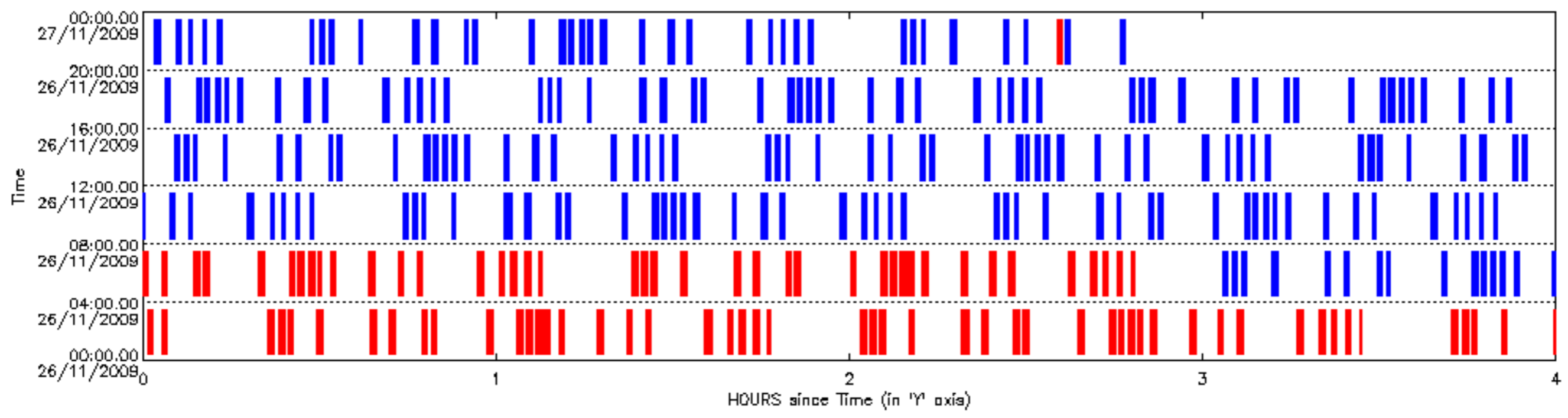
Lower curve: STD of SATU X axis

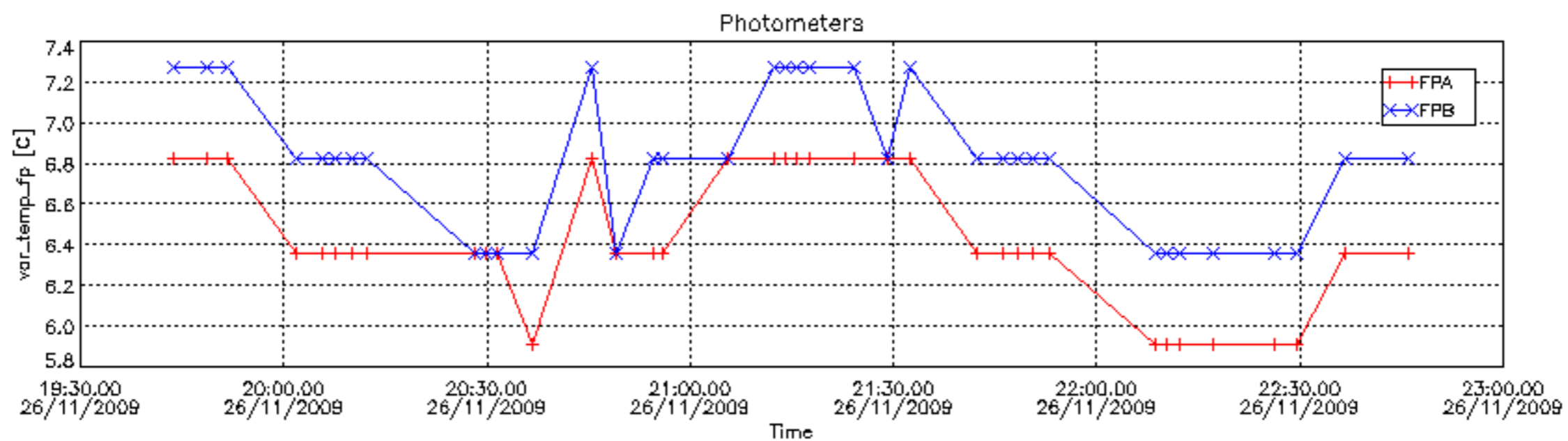
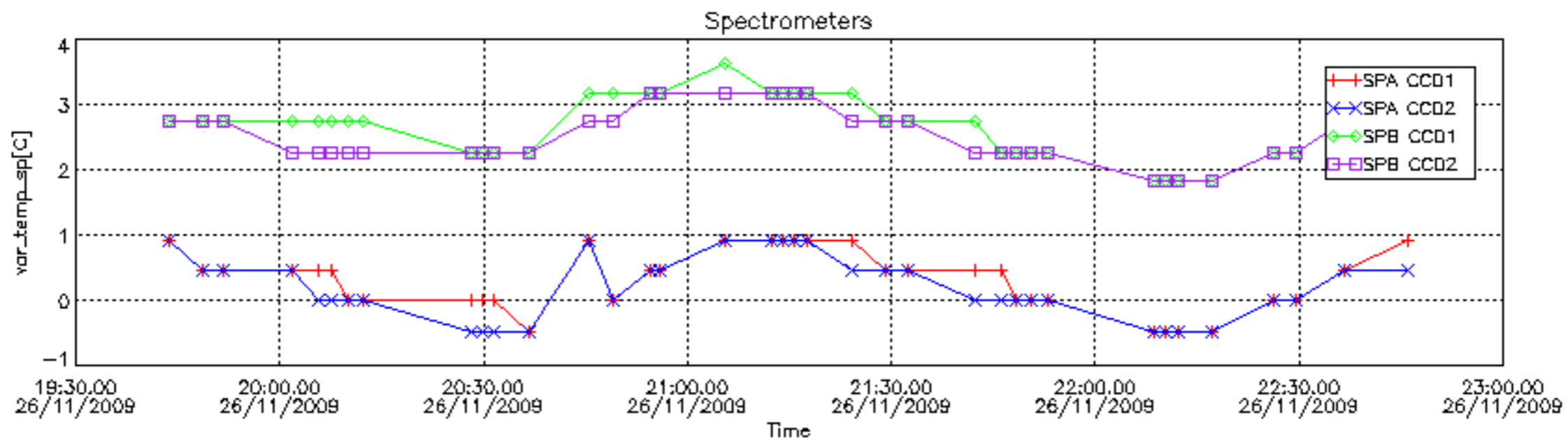


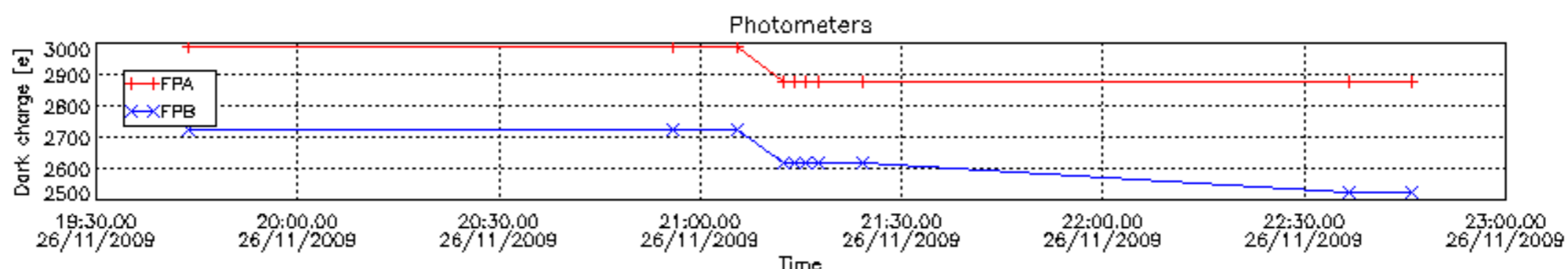
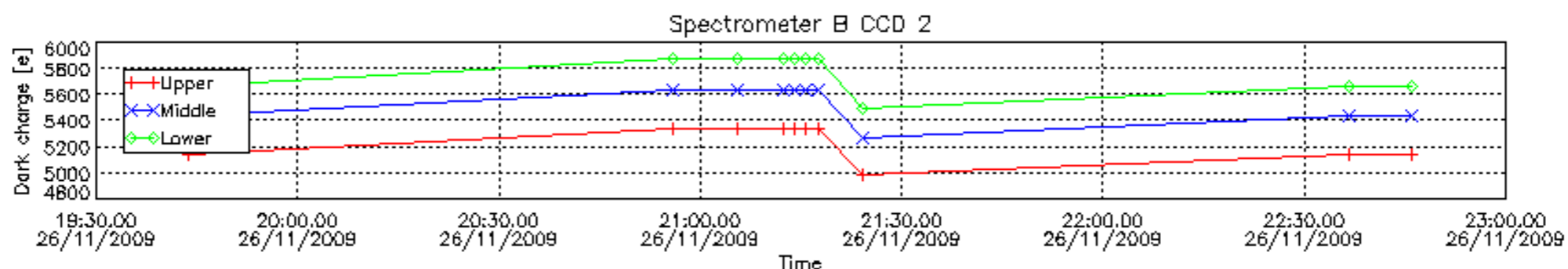
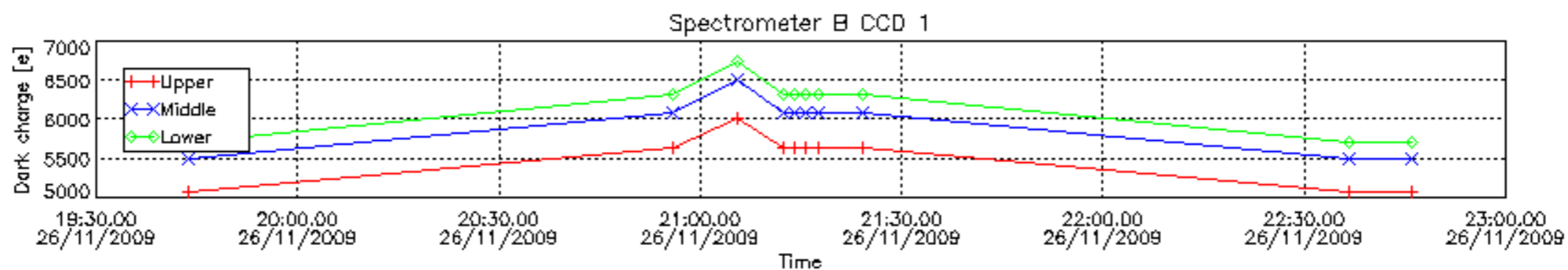
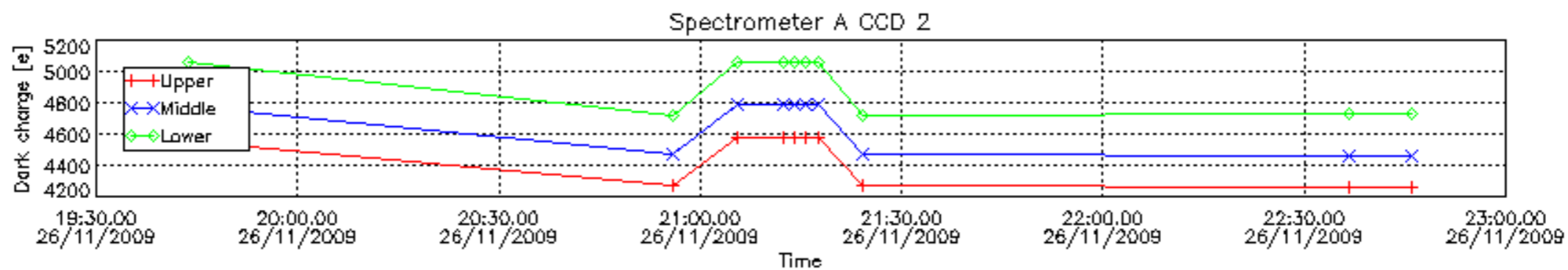
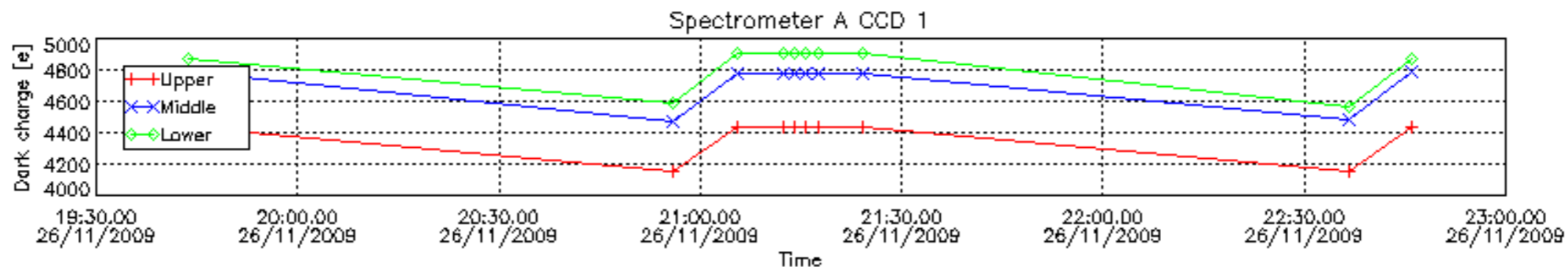
8. Auxiliary Data Files used for the production reported in section 2.4

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.

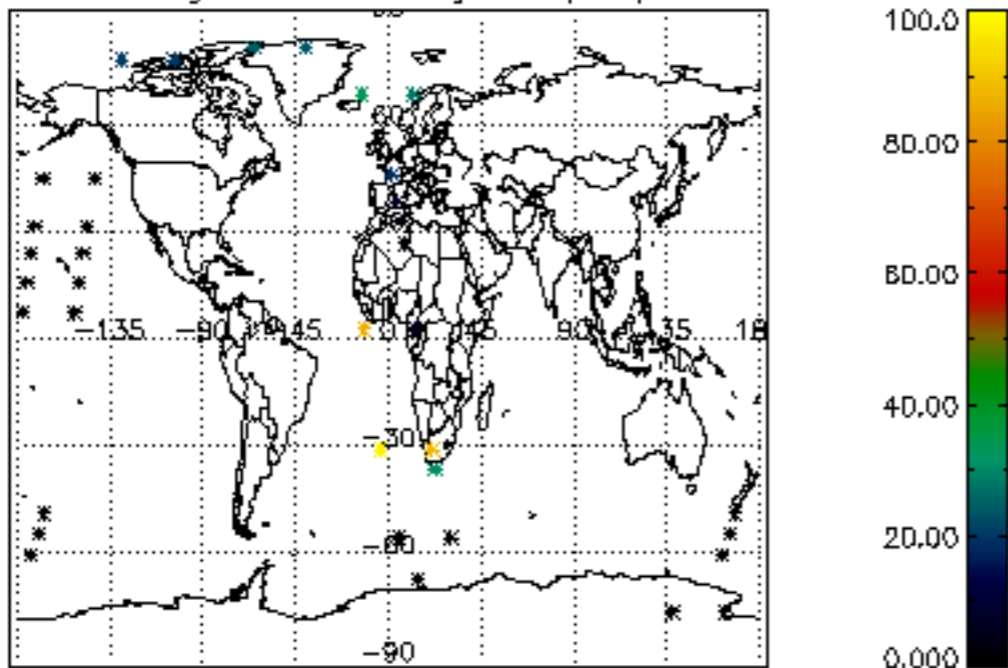
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-NOV-2009 19:43:36
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091123_100129_20091121_000000_20500101_000000	1	26-NOV-2009 19:43:36
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	26-NOV-2009 19:43:36
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-NOV-2009 19:43:36
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	26-NOV-2009 19:43:36
ECMWF_FILE	AUX_ECA_AXNECM20091126_182111_20091126_090000_20091126_210000	1	26-NOV-2009 19:43:36
ECMWF_FILE	AUX_ECF_AXNECM20091126_064111_20091126_150000_20091127_030000	13	26-NOV-2009 20:45:35
ECMWF_FILE	AUX_ECF_AXNECM20091126_064112_20091126_210000_20091127_090000	36	26-NOV-2009 22:36:37
OPTIONAL_ECMWF_FILE	MISSING	1	26-NOV-2009 19:43:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091126_193532_000038252084_00343_40477_9240.N1	1	26-NOV-2009 19:43:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091126_204436_000060572084_00343_40477_9241.N1	13	26-NOV-2009 20:45:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091126_223052_000057382084_00344_40478_9242.N1	36	26-NOV-2009 22:36:37



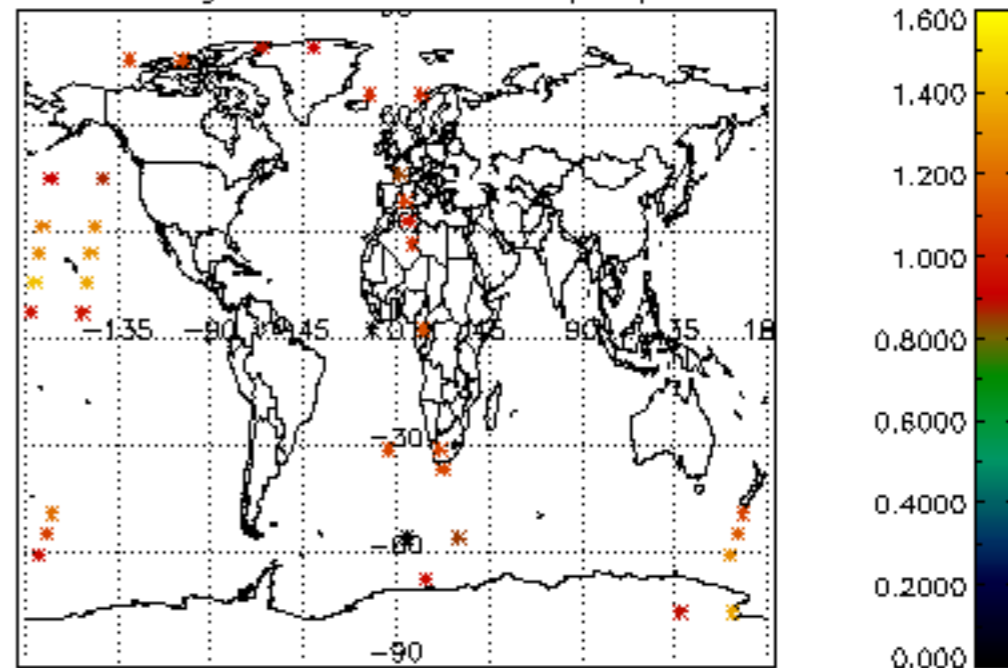




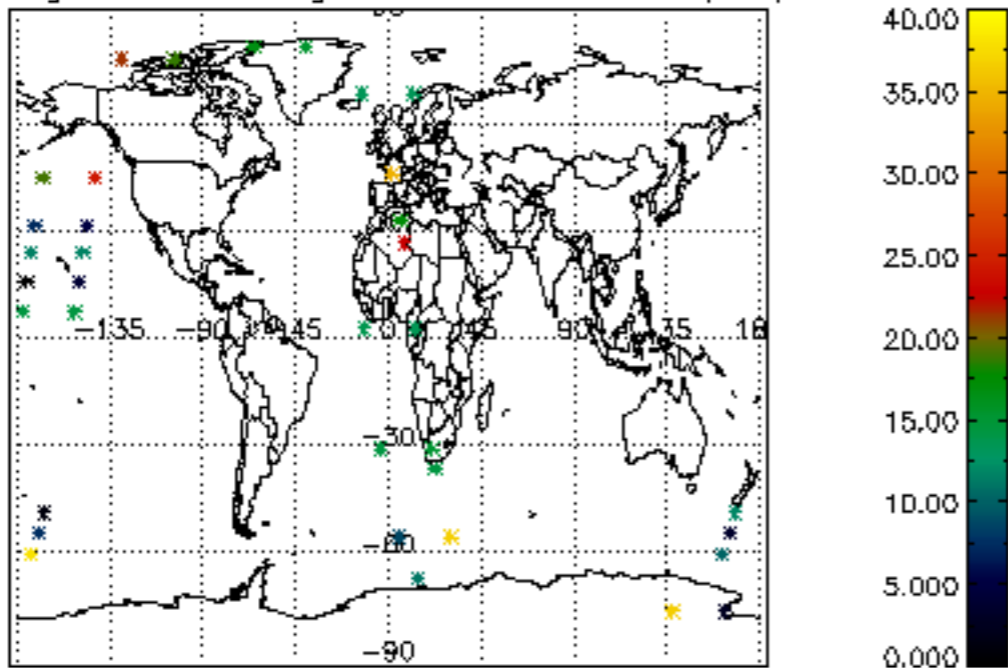
Percentage of cosmic ray hits per profile



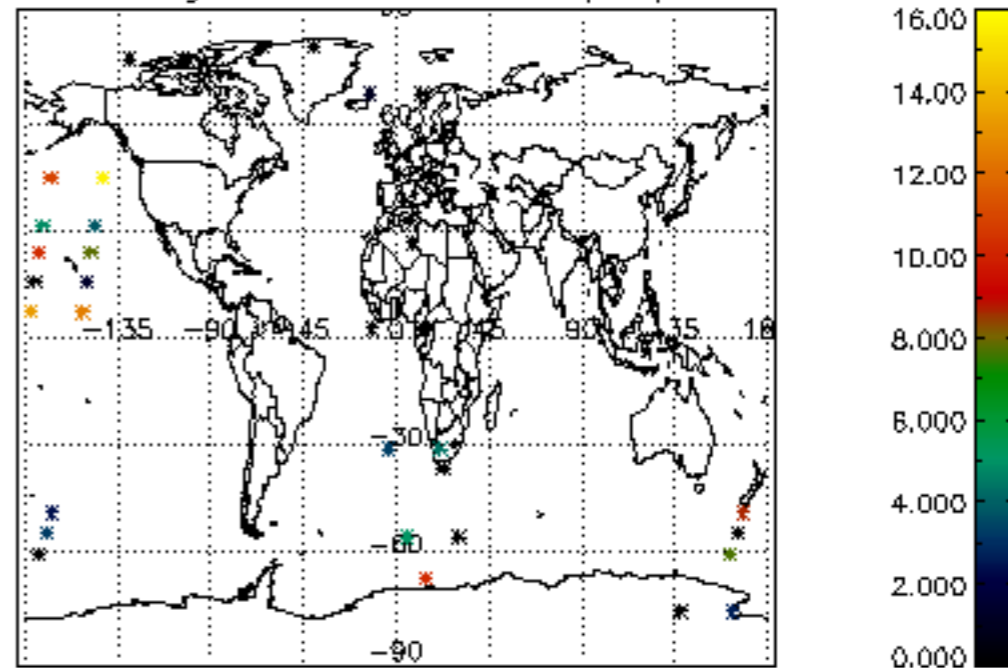
Percentage of datation errors per profile



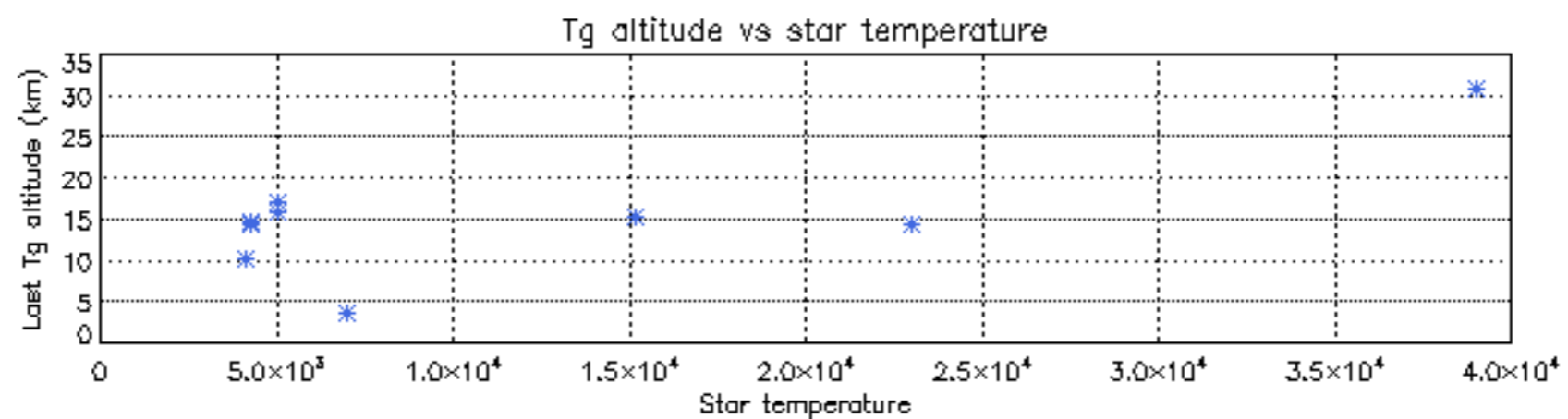
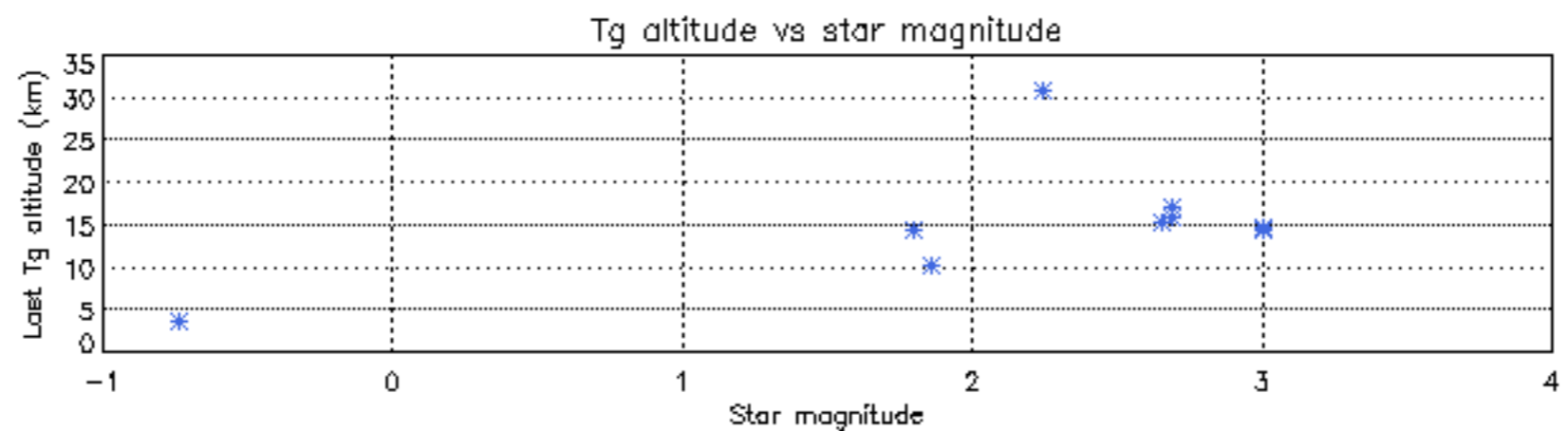
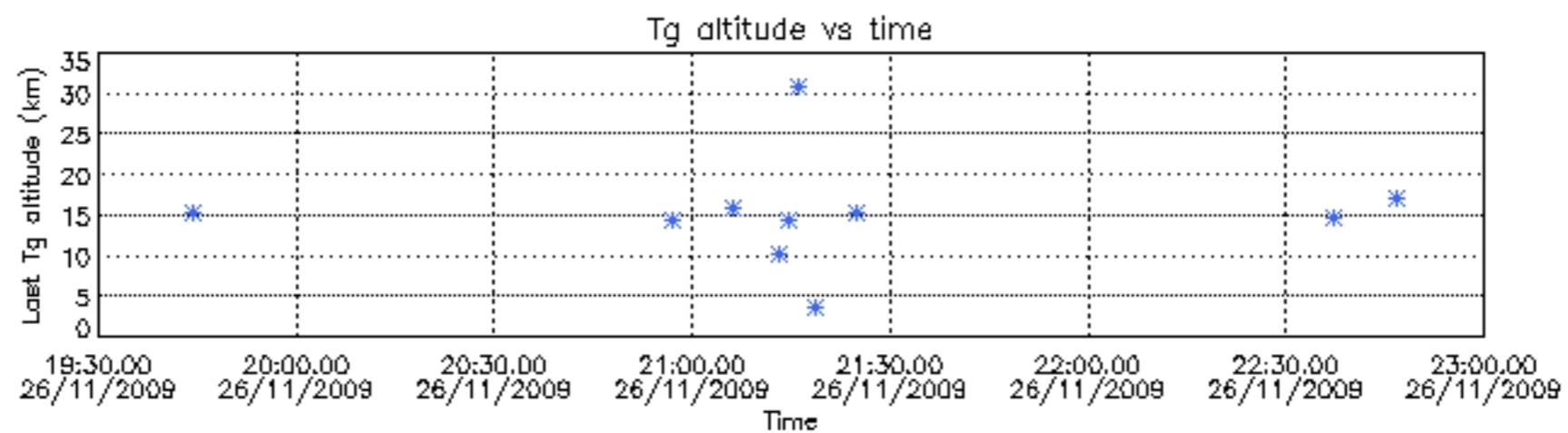
Percentage of star falling outside central band per profile



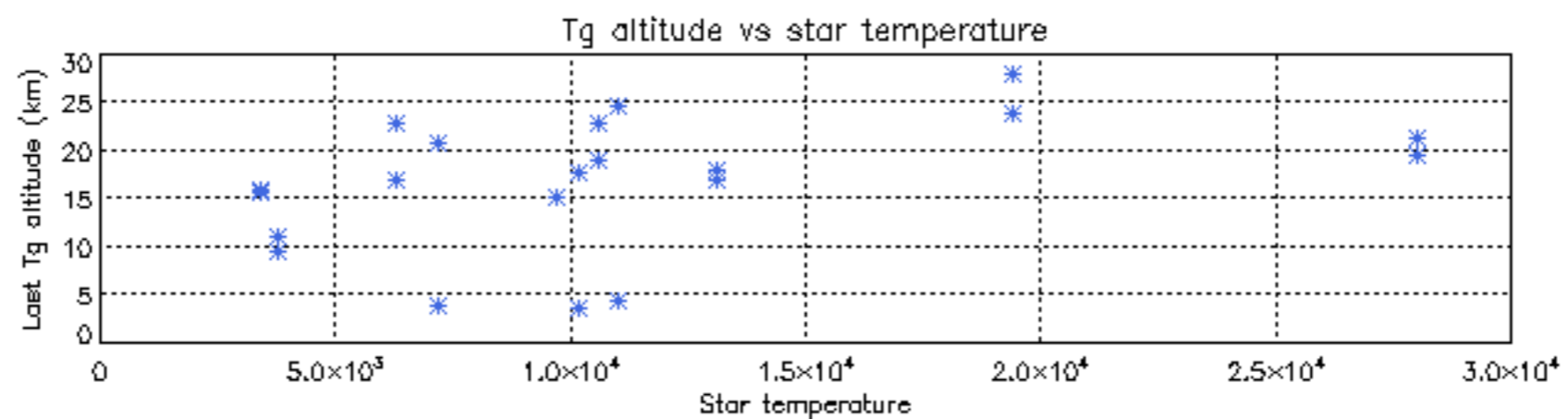
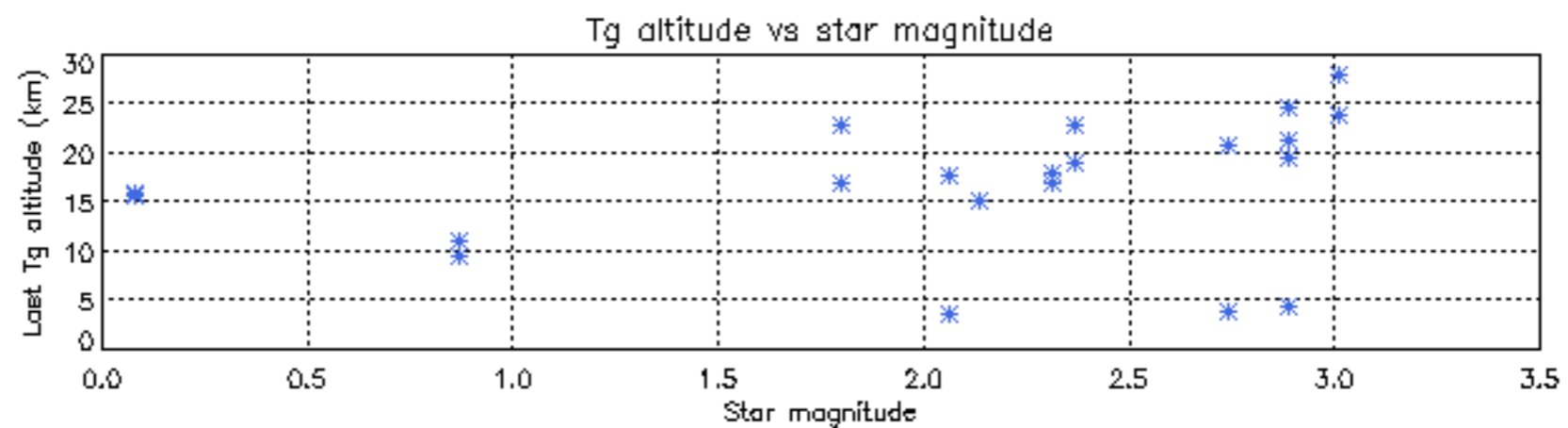
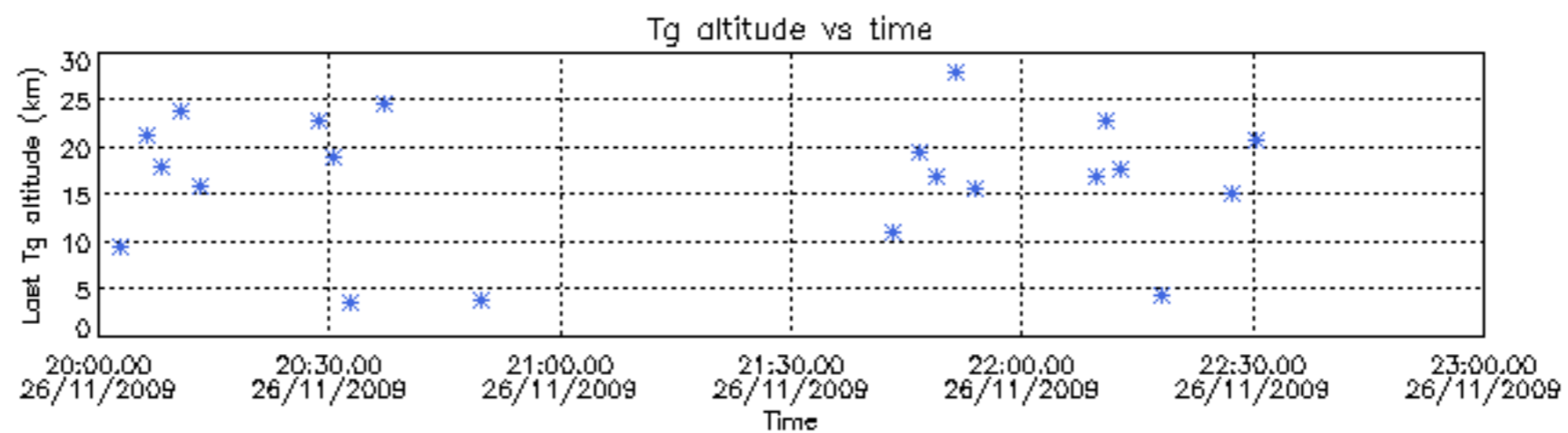
Percentage of saturation errors per profile

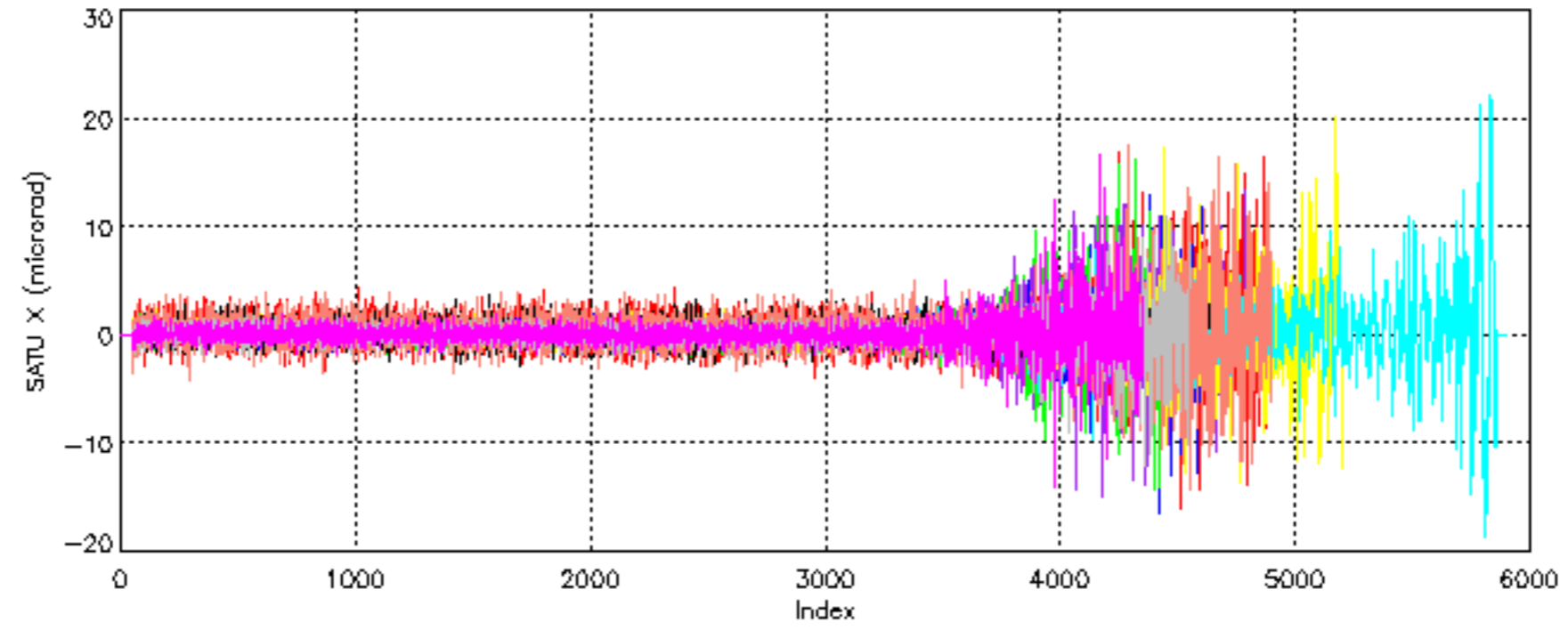


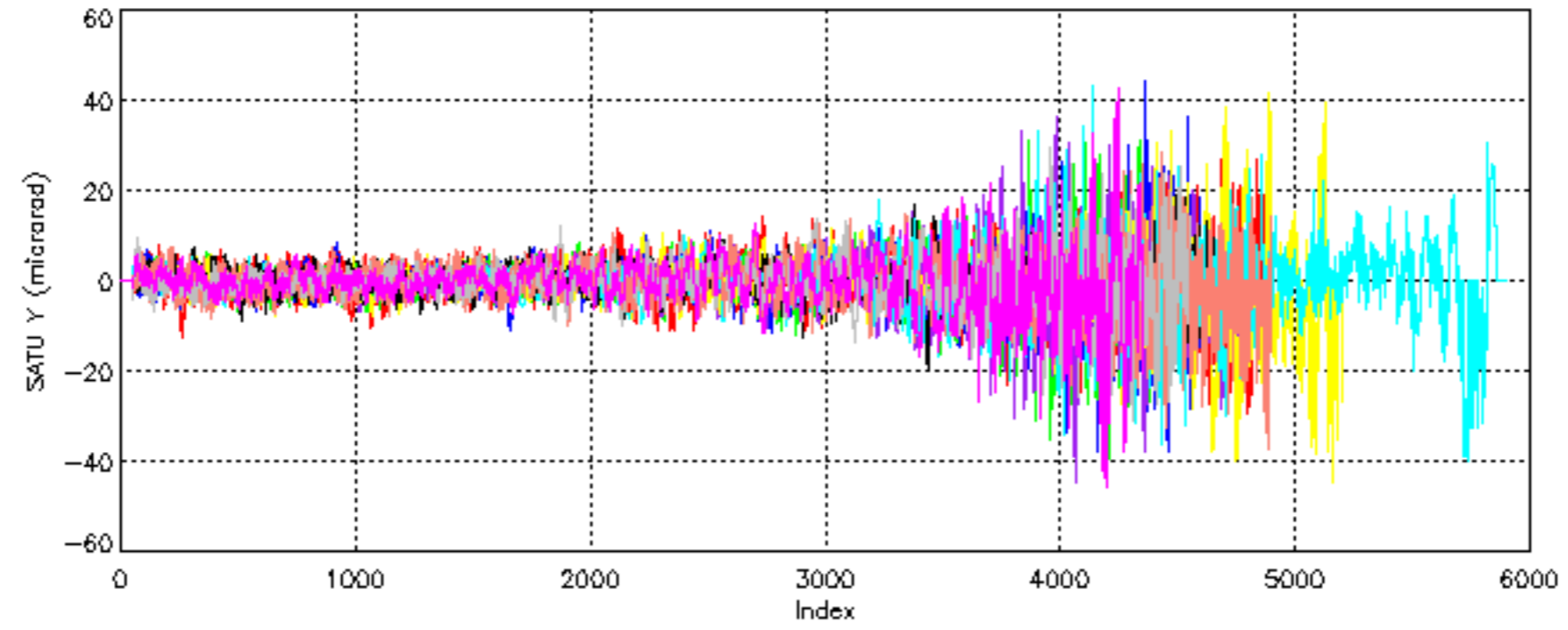
Tangent altitude at which the star is lost

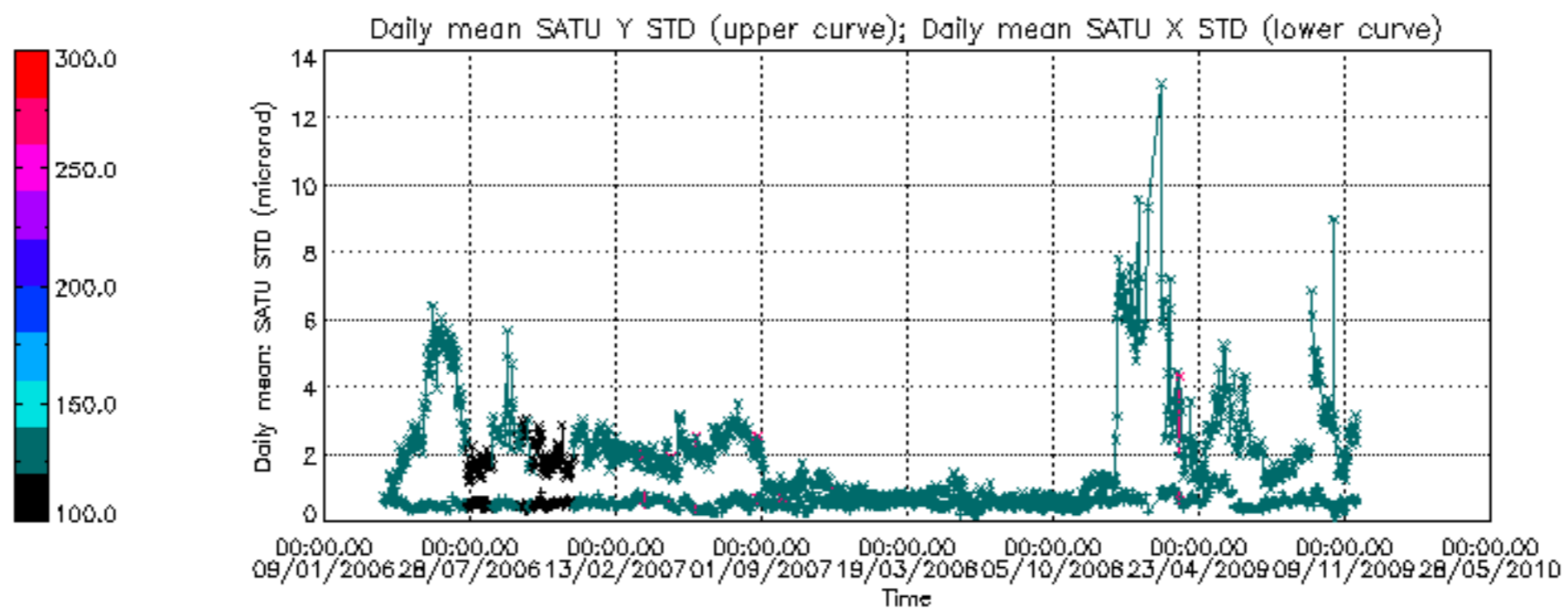


Tangent altitude at which the star is lost









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 3; 197.6; 01-NOV-2009 00:46:32; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40108
 4; 348.1; 01-NOV-2009 00:49:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40108
 5; 524.1; 01-NOV-2009 00:51:59; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;40108
 6; 908.8; 01-NOV-2009 00:58:23; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40108
 7; 2010.3; 01-NOV-2009 01:16:45; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;40108
 8; 2273.3; 01-NOV-2009 01:21:08; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40108
 9; 2538.3; 01-NOV-2009 01:25:33; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;40108
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 17; 4938.4; 01-NOV-2009 02:05:33; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;40108

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 3; 198.7; 01-NOV-2009 02:27:09; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40109
 4; 349.0; 01-NOV-2009 02:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40109
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 6; 910.1; 01-NOV-2009 02:39:01; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40109
 7; 2010.1; 01-NOV-2009 02:57:21; Dark ; 56.5; 94; 92Alp Cet ; 2.53; 3100;occ; 113; 0;40109
 8; 2273.2; 01-NOV-2009 03:01:44; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40109
 9; 2538.6; 01-NOV-2009 03:06:09; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40109
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 12; 2933.8; 01-NOV-2009 03:12:44; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;40109
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 4; -1325.9; 01-NOV-2009 03:42:21; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40109
 5; -1096.7; 01-NOV-2009 03:46:10; Bright; 53.0; 22; 32Alp Leo ; 1.36; 15200;occ; 106; 0;40109
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 9; 349.9; 01-NOV-2009 04:10:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40110
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 11; 911.1; 01-NOV-2009 04:19:38; Dark ; 31.0; 108; Alp Col ; 2.65; 15200;occ; 62; 0;40110
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13; 6072.8; 05-NOV-2009 10:21:35; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;40170
14; 6215.1; 05-NOV-2009 10:23:57; Dark ; 49.0; 46; Del Vel ; 1.95; 10600;occ; 98; 0;40170
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 5; 2628.8; 19-NOV-2009 12:05:08; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40372
 6; 2797.3; 19-NOV-2009 12:07:56; Bright; 39.5; 35; 33Alp Per ; 1.79; 6250;occ; 79; 0;40372
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 16; 6006.4; 19-NOV-2009 14:42:01; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;40373
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 19; 6562.1; 19-NOV-2009 14:51:17; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40373
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 5; 2628.3; 19-NOV-2009 15:26:19; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0;40374
 6; 2785.7; 19-NOV-2009 15:28:56; Bright; 39.5; 175; 39Del Per ; 3.01; 19400;occ; 79; 0;40374
 7; 3868.8; 19-NOV-2009 15:46:59; Bright; 40.0; 36; 50Alp UMA ; 1.80; 6300;occ; 80; 0;40374
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 9; 4051.8; 19-NOV-2009 15:50:02; Bright; 38.5; 87; 64Gam UMA ; 2.43; 11000;occ; 77; 0;40374
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 11; 4335.2; 19-NOV-2009 15:54:46; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;40374
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 16; 6007.0; 19-NOV-2009 16:22:38; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;40374
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 13; 5043.7; 19-NOV-2009 17:47:10; Bright; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;40375
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22; 6121.5; 30-NOV-2009 18:59:43; Dark ; 52.0; 113; Mu Vel ; 2.69; 5000;occ; 104; 0;40533
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 9; 2329.0; 30-NOV-2009 19:37:07; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;40534
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