

GOMOS Daily Report 02-OCT-2009

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	04OCT2009 04:32:11
Data source version	GOMOS/5.00L03
Start time of products	02OCT2009 00:01:10
Stop time of products	02OCT2009 23:58:09
Store outputs in DB	Yes
Nb of level 1b prods	54
Nb of prods with errors	0

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

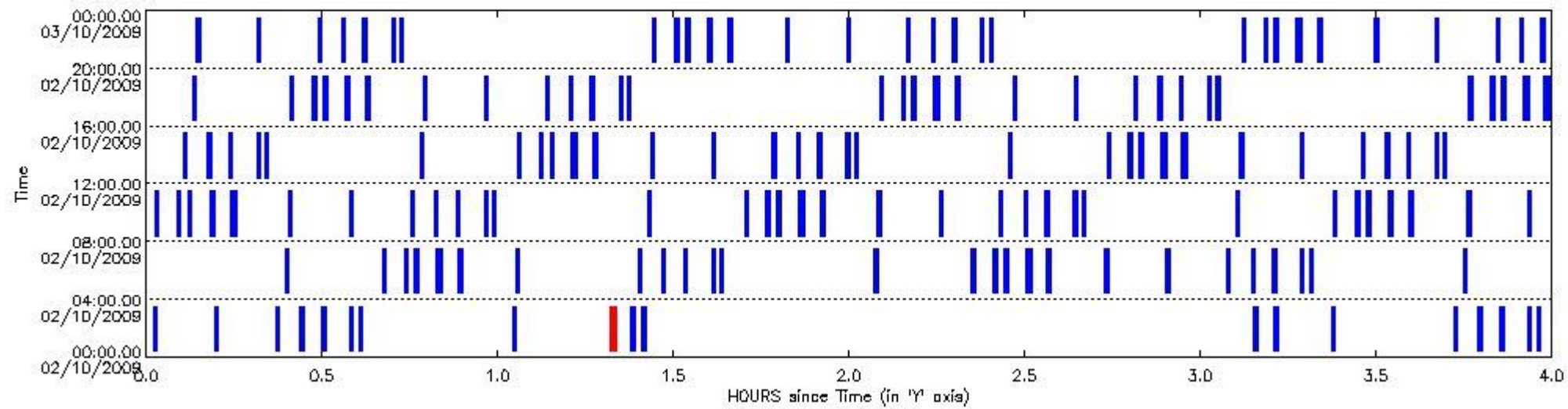
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

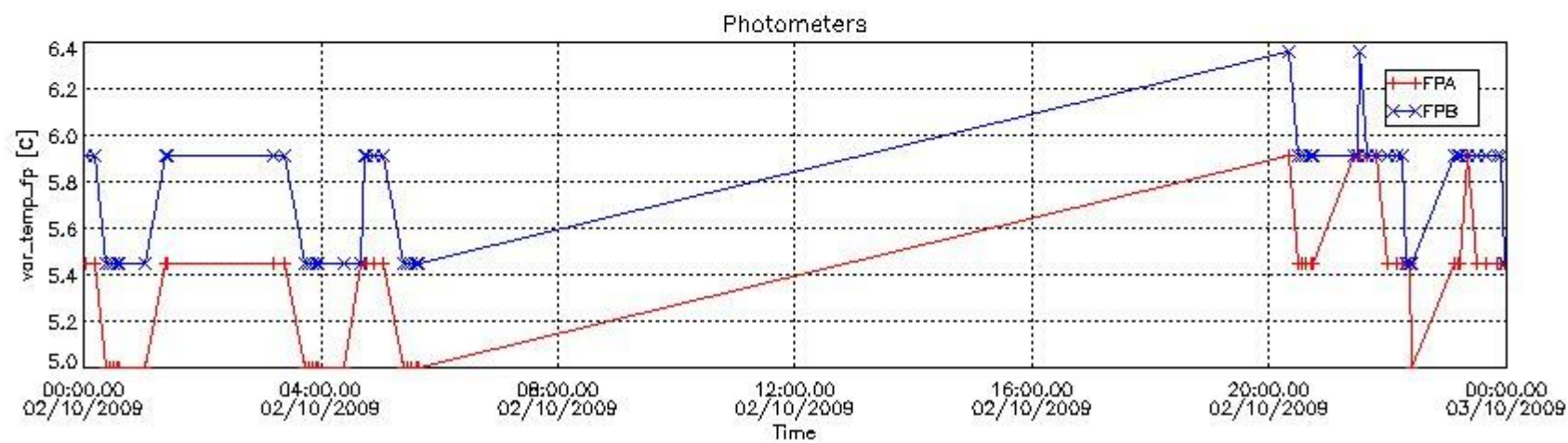
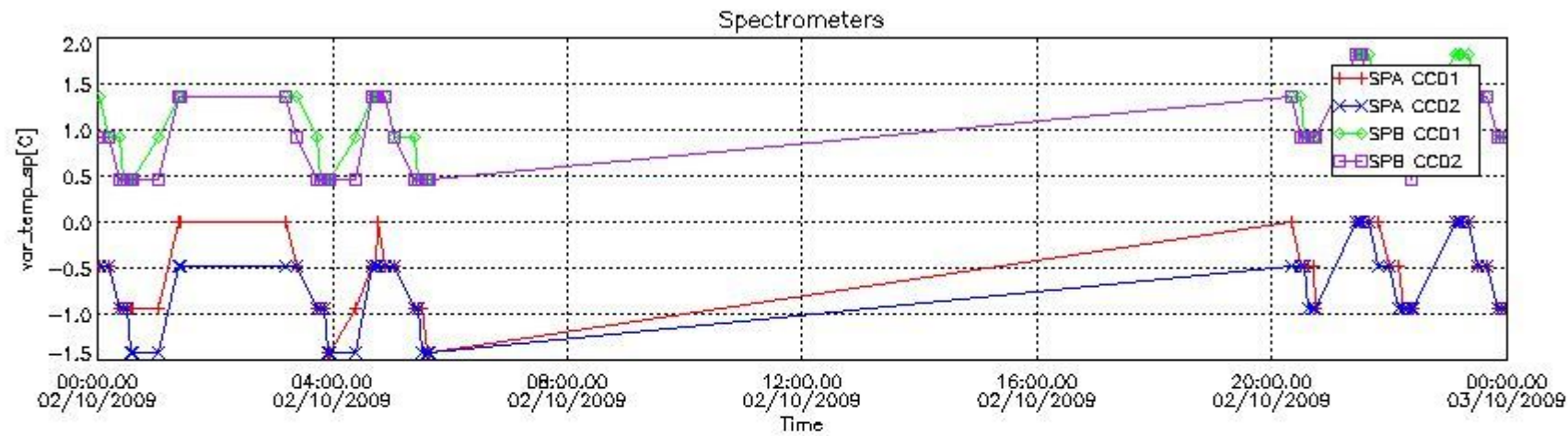
UTC start time	Star name	Star ID	Orbit
02-OCT-2009 01:19:09	15RhoPup	132	39678

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_1PNPDE20091002_000110_000000412083_00045_39678_8944.N1	02-OCT-2009 00:01:10	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	39678	No
2	GOM_TRA_1PNPDE20091002_001144_000000352083_00045_39678_8945.N1	02-OCT-2009 00:11:44	Straylight	34.500	52	16Bet Cet	2.0370	4500.0	69	39678	No
3	GOM_TRA_1PNPDE20091002_002207_000000352083_00045_39678_8946.N1	02-OCT-2009 00:22:07	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	39678	No
4	GOM_TRA_1PNPDE20091002_002616_000000352083_00045_39678_8947.N1	02-OCT-2009 00:26:16	Bright	35.000	58	21Alp And	2.0730	11000.	70	39678	No
5	GOM_TRA_1PNPDE20091002_002956_000000412083_00045_39678_8948.N1	02-OCT-2009 00:29:56	Bright	41.000	53	43Bet And	2.0480	3300.0	82	39678	No
6	GOM_TRA_1PNPDE20091002_003445_000000352083_00045_39678_8949.N1	02-OCT-2009 00:34:45	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	39678	No
7	GOM_TRA_1PNPDE20091002_003611_000000352083_00045_39678_8950.N1	02-OCT-2009 00:36:11	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	39678	No
8	GOM_TRA_1PNPDE20091002_010230_000000382083_00045_39678_8951.N1	02-OCT-2009 01:02:30	Twilight	37.500	17	78Bet Gem	1.1610	4500.0	75	39678	No
9	GOM_TRA_1PNPDE20091002_012245_000000412083_00045_39678_8947.N1	02-OCT-2009 01:22:45	Dark	41.000	88	31Eta CMa	2.4480	20000.	82	39678	No
10	GOM_TRA_1PNPDE20091002_012432_000000452083_00045_39678_8948.N1	02-OCT-2009 01:24:32	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	39678	No

11	GOM_TRA_1PNPDE20091002_031227_000000532083_00047_39680_8954.N1	02-OCT-2009 03:12:27	Dark	53.000	108	Alp Col	2.6520	15200.	106	39680	No
12	GOM_TRA_1PNPDE20091002_032223_000000402083_00047_39680_8955.N1	02-OCT-2009 03:22:23	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	39680	No
13	GOM_TRA_1PNPDE20091002_034319_000000342083_00047_39680_8956.N1	02-OCT-2009 03:43:19	Bright	34.000	140	88Gam Peg	2.8340	26000.	68	39680	No
14	GOM_TRA_1PNPDE20091002_034727_000000352083_00047_39680_8957.N1	02-OCT-2009 03:47:27	Bright	34.500	58	21Alp And	2.0730	11000.	69	39680	No
15	GOM_TRA_1PNPDE20091002_035106_000000412083_00047_39680_8958.N1	02-OCT-2009 03:51:06	Bright	40.500	53	43Bet And	2.0480	3300.0	81	39680	No
16	GOM_TRA_1PNPDE20091002_035556_000000342083_00047_39680_8959.N1	02-OCT-2009 03:55:56	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	39680	No
17	GOM_TRA_1PNPDE20091002_035722_000000342083_00047_39680_8960.N1	02-OCT-2009 03:57:22	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	39680	No
18	GOM_TRA_1PNPDE20091002_042343_000000372083_00047_39680_8963.N1	02-OCT-2009 04:23:43	Twilight_stray	37.000	17	78Bet Gem	1.1610	4500.0	74	39680	No
19	GOM_TRA_1PNPDE20091002_044017_000000362083_00047_39680_8964.N1	02-OCT-2009 04:40:17	Dark	35.500	132	15Rho Pup	2.8030	6900.0	71	39680	No
20	GOM_TRA_1PNPDE20091002_044359_000000412083_00047_39680_8965.N1	02-OCT-2009 04:43:59	Dark	40.500	88	31Eta CMa	2.4480	20000.	81	39680	No
21	GOM_TRA_1PNPDE20091002_044546_000000452083_00047_39680_8966.N1	02-OCT-2009 04:45:46	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	39680	No
22	GOM_TRA_1PNPDE20091002_045304_000000522083_00048_39681_8967.N1	02-OCT-2009 04:53:04	Dark	52.000	108	Alp Col	2.6520	15200.	104	39681	No
23	GOM_TRA_1PNPDE20091002_050300_000000402083_00048_39681_8968.N1	02-OCT-2009 05:03:00	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	39681	No
24	GOM_TRA_1PNPDE20091002_052355_000000342083_00048_39681_8969.N1	02-OCT-2009 05:23:55	Bright	34.000	140	88Gam Peg	2.8340	26000.	68	39681	No
25	GOM_TRA_1PNPDE20091002_052803_000000342083_00048_39681_8970.N1	02-OCT-2009 05:28:03	Bright	34.000	58	21Alp And	2.0730	11000.	68	39681	No
26	GOM_TRA_1PNPDE20091002_053141_000000412083_00048_39681_8971.N1	02-OCT-2009 05:31:41	Bright	40.500	53	43Bet And	2.0480	3300.0	81	39681	No
27	GOM_TRA_1PNPDE20091002_053632_000000342083_00048_39681_8972.N1	02-OCT-2009 05:36:32	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	39681	No
28	GOM_TRA_1PNPDE20091002_053758_000000342083_00048_39681_8973.N1	02-OCT-2009 05:37:58	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	39681	No
29	GOM_TRA_1PNPDE20091002_201857_000000352083_00057_39690_9027.N1	02-OCT-2009 20:18:57	Straylight	34.500	52	16Bet Cet	2.0370	4500.0	69	39690	No
30	GOM_TRA_1PNPDE20091002_202917_000000352083_00057_39690_9028.N1	02-OCT-2009 20:29:17	Bright	34.500	140	88Gam Peg	2.8340	26000.	69	39690	No
31	GOM_TRA_1PNPDE20091002_203324_000000352083_00057_39690_9029.N1	02-OCT-2009 20:33:24	Bright	35.000	58	21Alp And	2.0730	11000.	70	39690	No
32	GOM_TRA_1PNPDE20091002_203659_000000412083_00057_39690_9030.N1	02-OCT-2009 20:36:59	Bright	41.000	53	43Bet And	2.0480	3300.0	82	39690	No
33	GOM_TRA_1PNPDE20091002_204152_000000352083_00057_39690_9031.N1	02-OCT-2009 20:41:52	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	39690	No
34	GOM_TRA_1PNPDE20091002_204318_000000352083_00057_39690_9032.N1	02-OCT-2009 20:43:18	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	39690	No
35	GOM_TRA_1PNPDE20091002_212625_000000372083_00057_39690_9033.N1	02-OCT-2009 21:26:25	Dark	37.000	132	15Rho Pup	2.8030	6900.0	74	39690	No
36	GOM_TRA_1PNPDE20091002_213009_000000422083_00057_39690_9034.N1	02-OCT-2009 21:30:09	Dark	42.000	88	31Eta CMa	2.4480	20000.	84	39690	No
37	GOM_TRA_1PNPDE20091002_213159_000000472083_00057_39690_9035.N1	02-OCT-2009 21:31:59	Dark	46.500	23	21Eps CMa	1.5020	26000.	93	39690	No
38	GOM_TRA_1PNPDE20091002_213919_000000542083_00058_39691_9036.N1	02-OCT-2009 21:39:19	Dark	53.500	108	Alp Col	2.6520	15200.	107	39691	No
39	GOM_TRA_1PNPDE20091002_214907_000000412083_00058_39691_9037.N1	02-OCT-2009 21:49:07	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	39691	No
40	GOM_TRA_1PNPDE20091002_215933_000000352083_00058_39691_9038.N1	02-OCT-2009 21:59:33	Straylight	34.500	52	16Bet Cet	2.0370	4500.0	69	39691	No
41	GOM_TRA_1PNPDE20091002_220952_000000352083_00058_39691_9039.N1	02-OCT-2009 22:09:52	Bright	34.500	140	88Gam Peg	2.8340	26000.	69	39691	No
42	GOM_TRA_1PNPDE20091002_221400_000000352083_00058_39691_9040.N1	02-OCT-2009 22:14:00	Bright	35.000	58	21Alp And	2.0730	11000.	70	39691	No
43	GOM_TRA_1PNPDE20091002_221734_000000422083_00058_39691_9041.N1	02-OCT-2009 22:17:34	Bright	41.500	53	43Bet And	2.0480	3300.0	83	39691	No
44	GOM_TRA_1PNPDE20091002_222228_000000352083_00058_39691_9042.N1	02-OCT-2009 22:22:28	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	39691	No
45	GOM_TRA_1PNPDE20091002_222354_000000342083_00058_39691_9043.N1	02-OCT-2009 22:23:54	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39691	No
46	GOM_TRA_1PNPDE20091002_230702_000000372083_00058_39691_9039.N1	02-OCT-2009 23:07:02	Dark	37.000	132	15Rho Pup	2.8030	6900.0	74	39691	No
47	GOM_TRA_1PNPDE20091002_231046_000000422083_00058_39691_9040.N1	02-OCT-2009 23:10:46	Dark	42.000	88	31Eta CMa	2.4480	20000.	84	39691	No
48	GOM_TRA_1PNPDE20091002_231236_000000472083_00058_39691_9041.N1	02-OCT-2009 23:12:36	Dark	47.000	23	21Eps CMa	1.5020	26000.	94	39691	No
49	GOM_TRA_1PNPDE20091002_231956_000000542083_00059_39692_9042.N1	02-OCT-2009 23:19:56	Dark	53.500	108	Alp Col	2.6520	15200.	107	39692	No
50	GOM_TRA_1PNPDE20091002_232944_000000402083_00059_39692_9043.N1	02-OCT-2009 23:29:44	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	39692	No
51	GOM_TRA_1PNPDE20091002_234009_000000342083_00059_39692_9044.N1	02-OCT-2009 23:40:09	Straylight	34.000	52	16Bet Cet	2.0370	4500.0	68	39692	No
52	GOM_TRA_1PNPDE20091002_235028_000000352083_00059_39692_9045.N1	02-OCT-2009 23:50:28	Bright	34.500	140	88Gam Peg	2.8340	26000.	69	39692	No
53	GOM_TRA_1PNPDE20091002_235435_000000352083_00059_39692_9046.N1	02-OCT-2009 23:54:35	Bright	35.000	58	21Alp And	2.0730	11000.	70	39692	No
54	GOM_TRA_1PNPDE20091002_235809_000000422083_00059_39692_9047.N1	02-OCT-2009 23:58:09	Bright	41.500	53	43Bet And	2.0480	3300.0	83	39692	No

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



4. Overview of dark signal processing per product

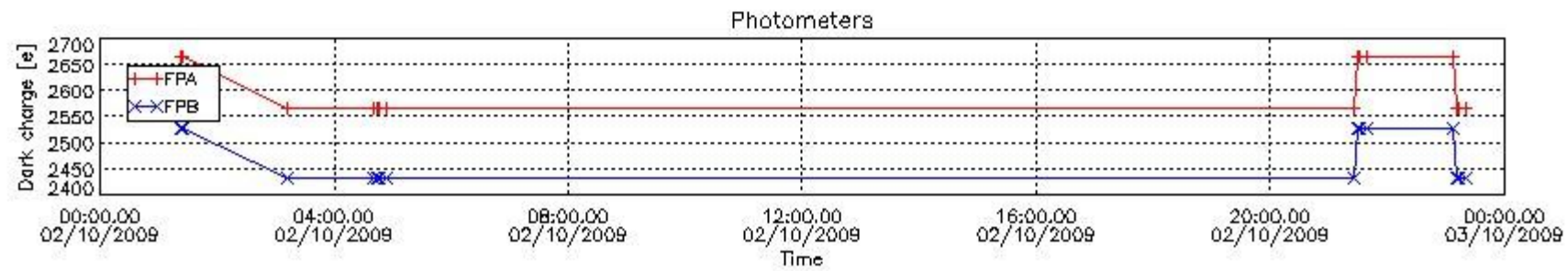
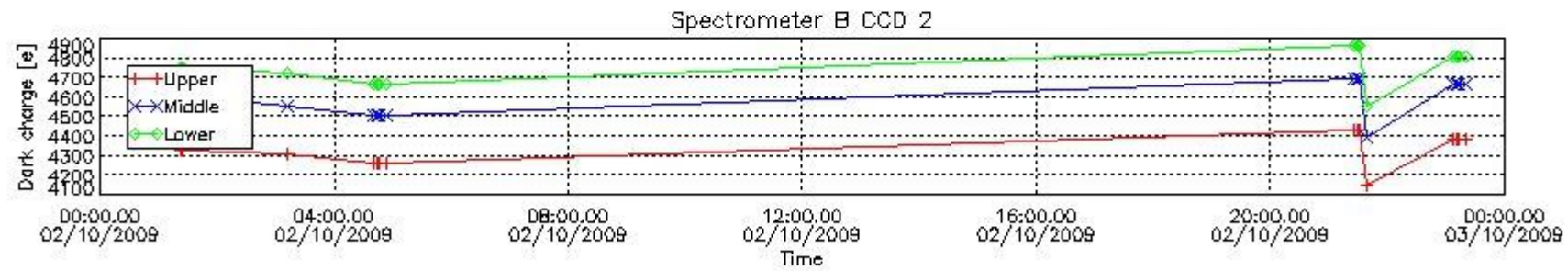
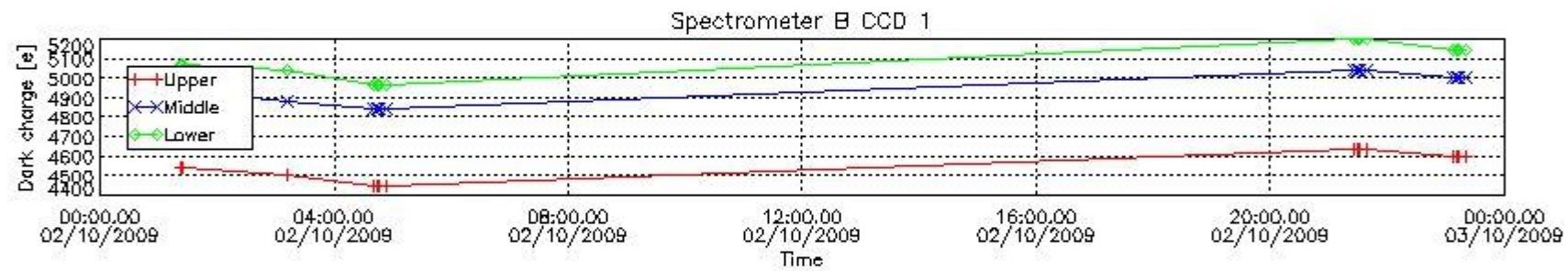
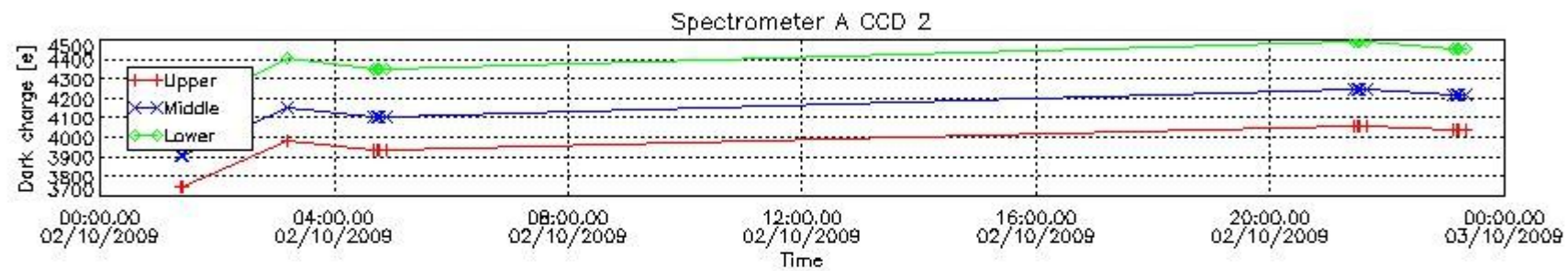
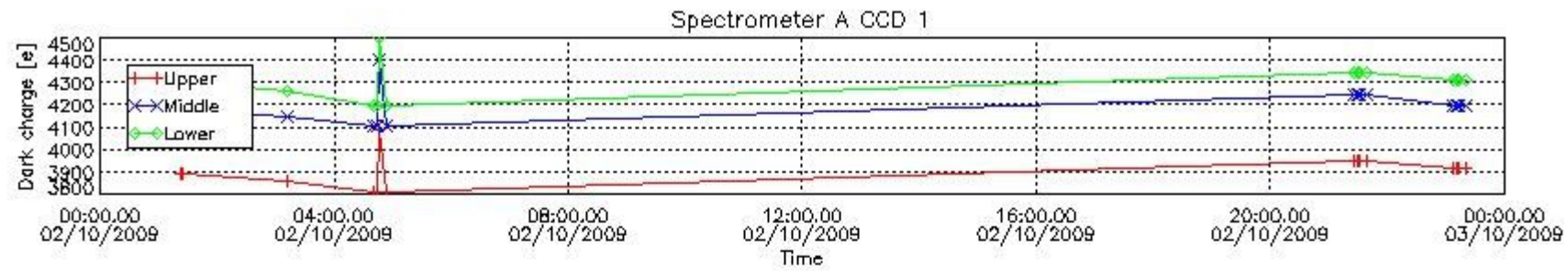
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091002_012245_000000412083_00045_39678_8947.N1	DC map used
GOM_TRA_1PNPDE20091002_012432_000000452083_00045_39678_8948.N1	DC map used
GOM_TRA_1PNPDE20091002_201857_000000352083_00057_39690_9027.N1	DC map used
GOM_TRA_1PNPDE20091002_202917_000000352083_00057_39690_9028.N1	DC map used
GOM_TRA_1PNPDE20091002_203324_000000352083_00057_39690_9029.N1	DC map used
GOM_TRA_1PNPDE20091002_203659_000000412083_00057_39690_9030.N1	DC map used
GOM_TRA_1PNPDE20091002_204152_000000352083_00057_39690_9031.N1	DC map used
GOM_TRA_1PNPDE20091002_204318_000000352083_00057_39690_9032.N1	DC map used

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



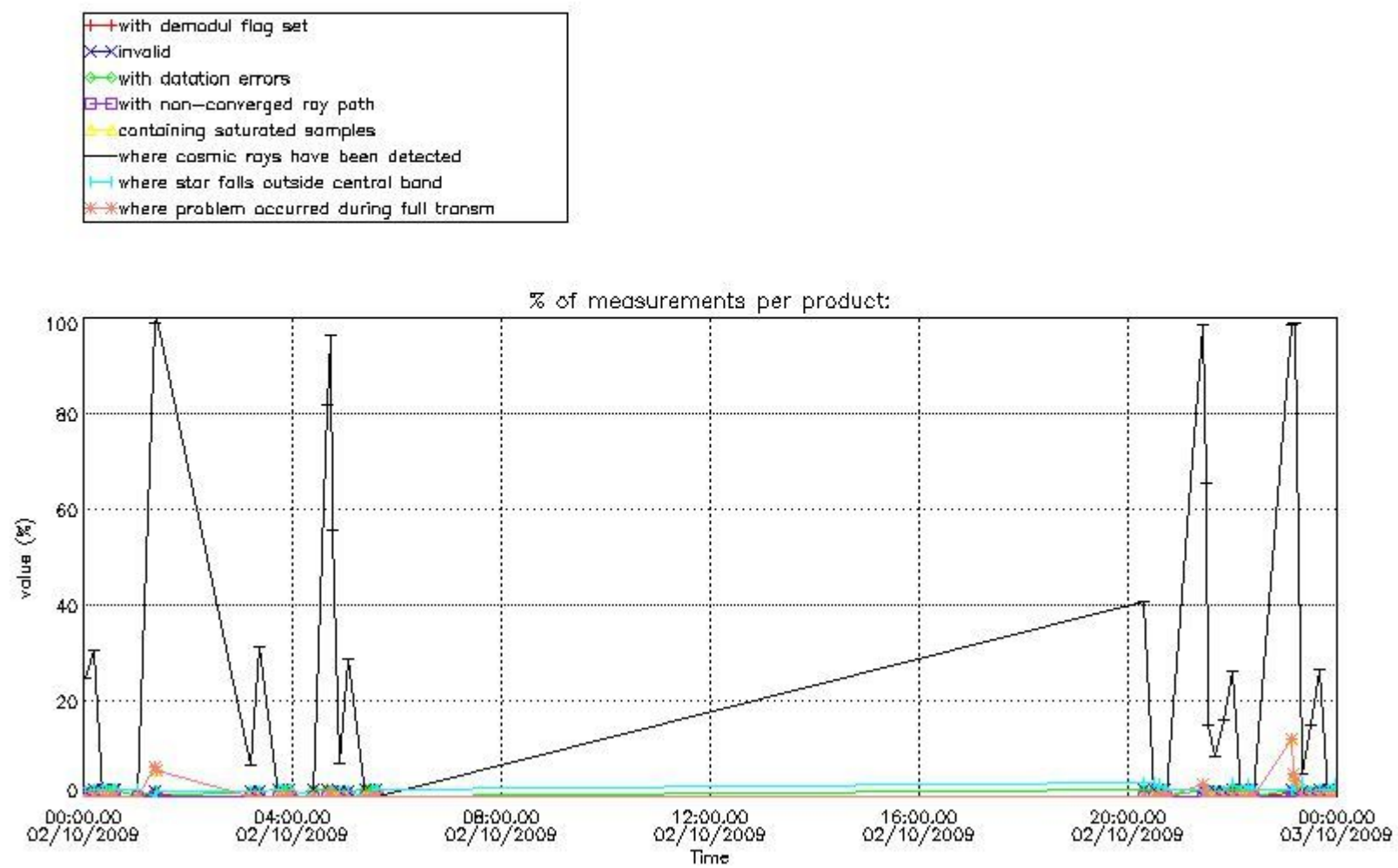
5. Demodulation flag and quality information monitoring

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.

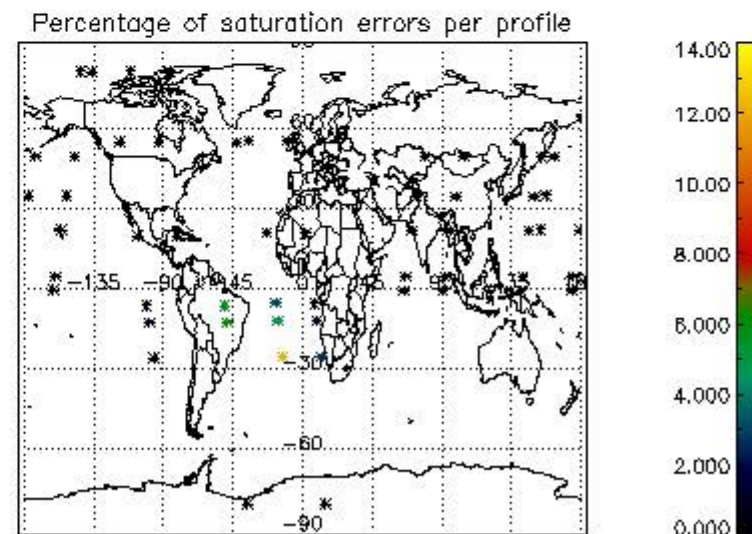
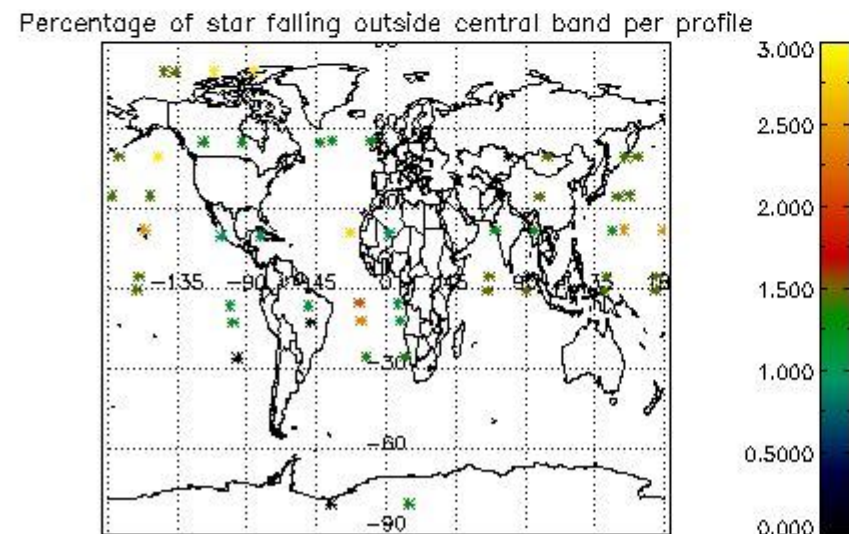
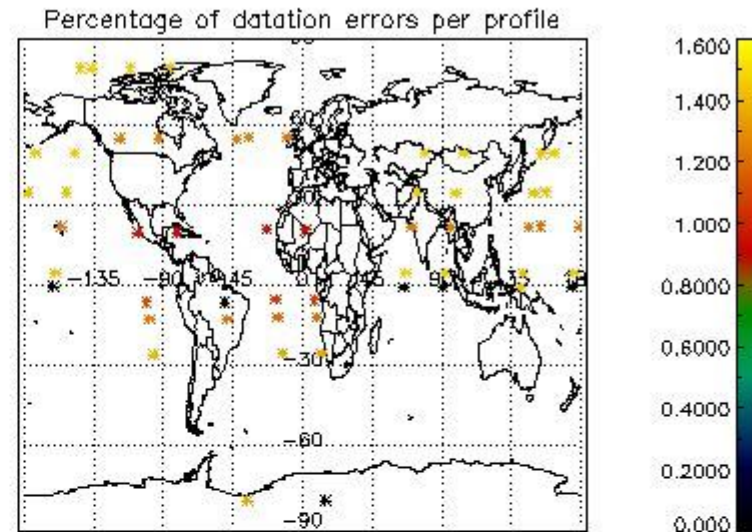
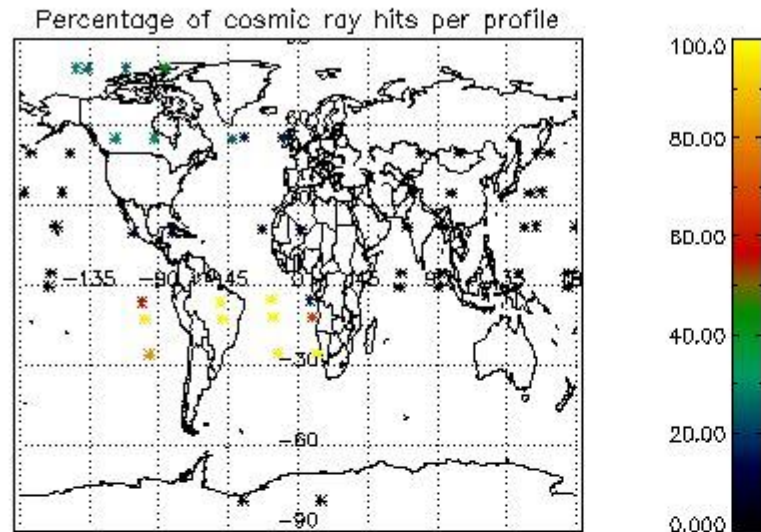
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.9259 %
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)



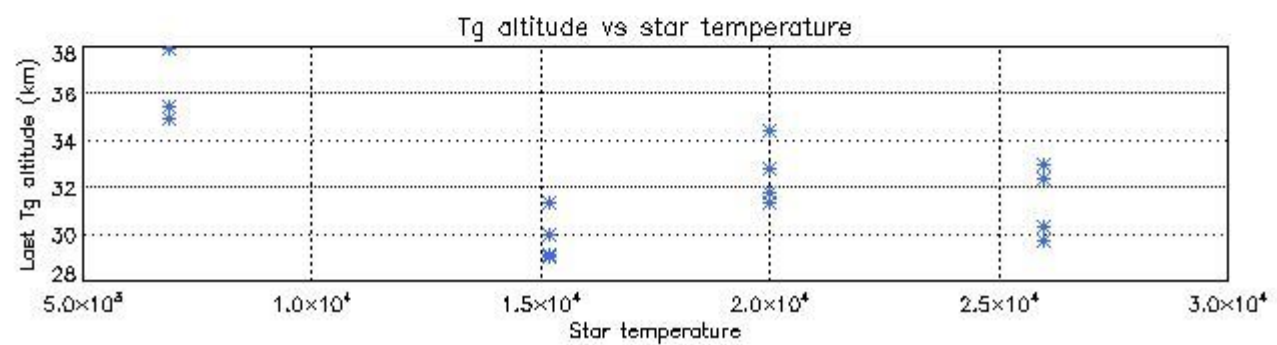
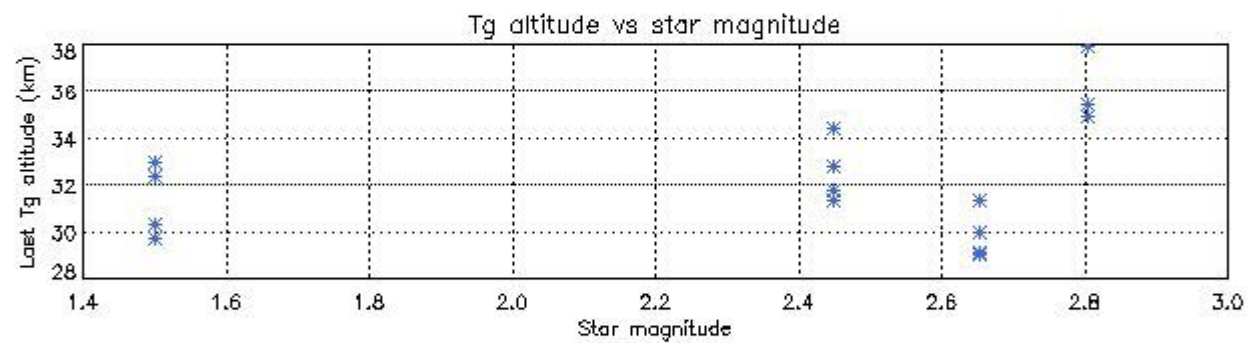
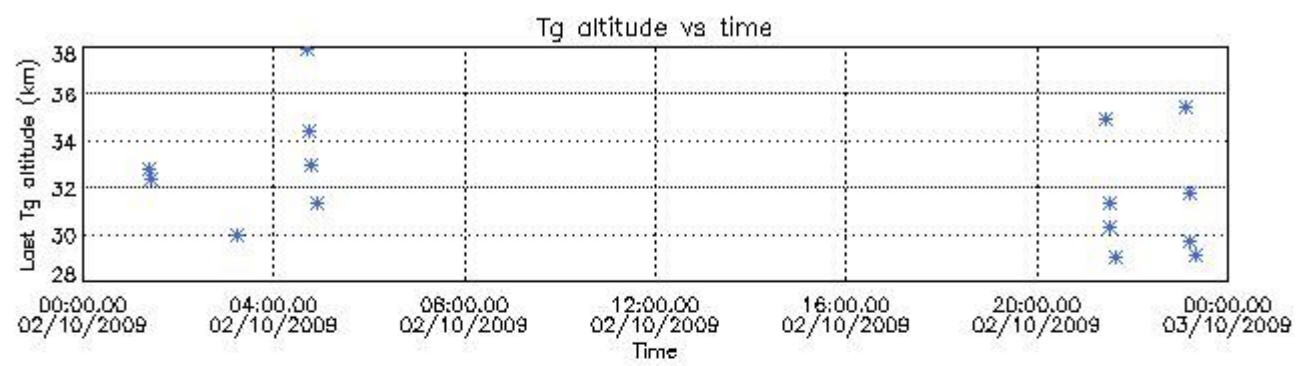
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	32.223	32.419	NaN
St. deviation:	2.5782	1.9898	NaN
Maximum:	37.911	36.883	NaN
Minimum:	29.038	29.218	NaN
Number of data:	15.000	28.000	NaN

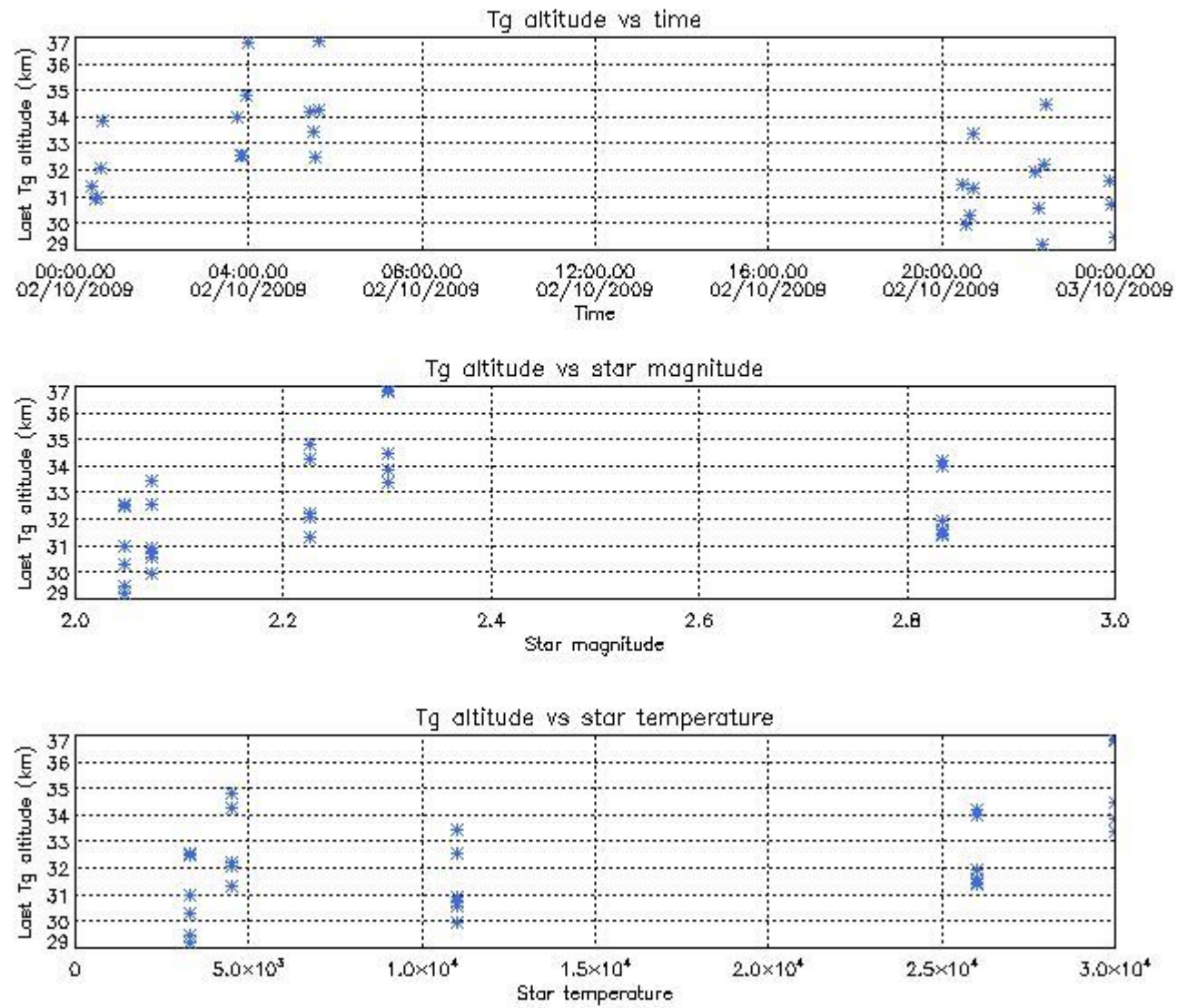
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

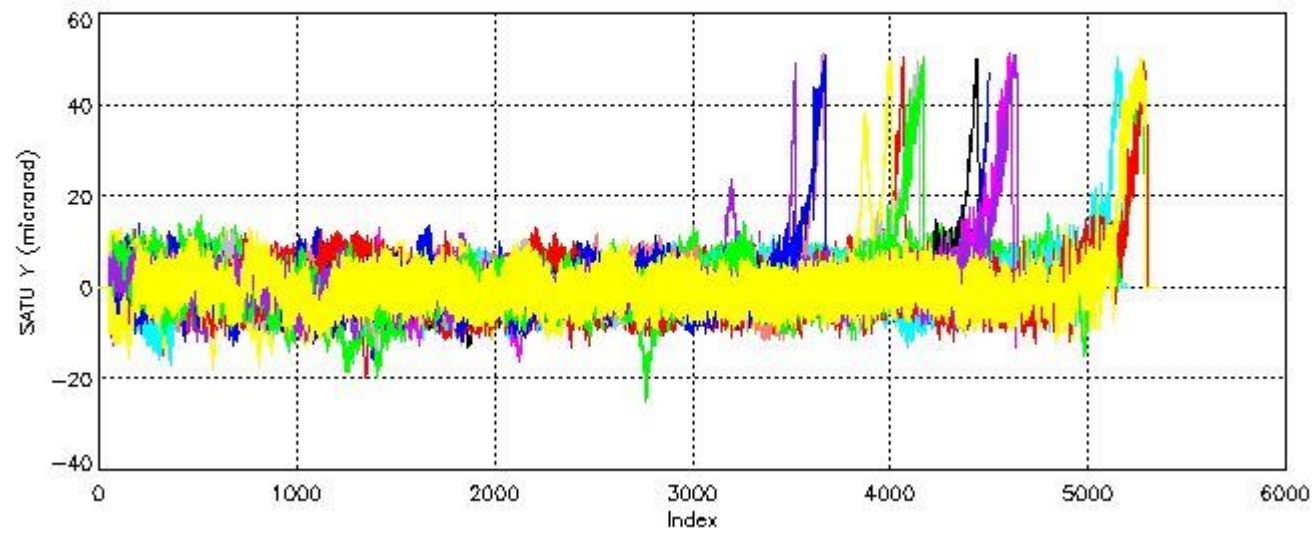
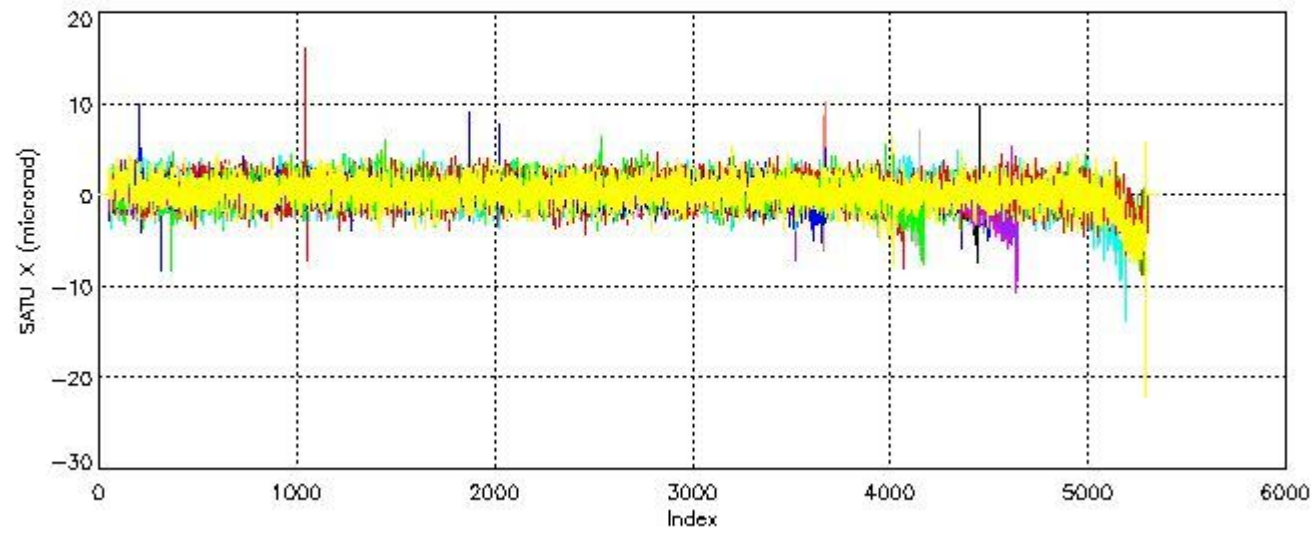


7. Star Acquisition and Tracking Unit (SATU)

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:	0.29663	-0.19543	0.21950	0.10826
St. deviation:	0.99536	5.0116	0.89224	4.5603
Maximum:	16.100	15.700	6.1000	18.400
Minimum:	-8.2000	-19.900	-6.2000	-33.400

Number of data:	18750.	18750.	27600.	27600.
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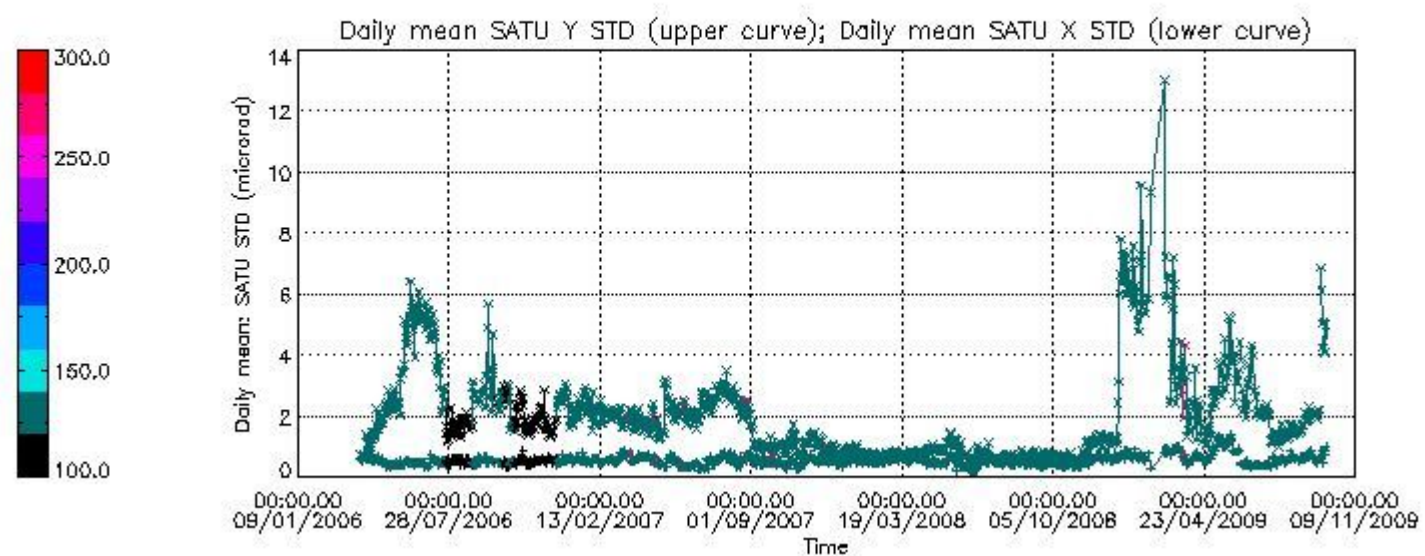
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

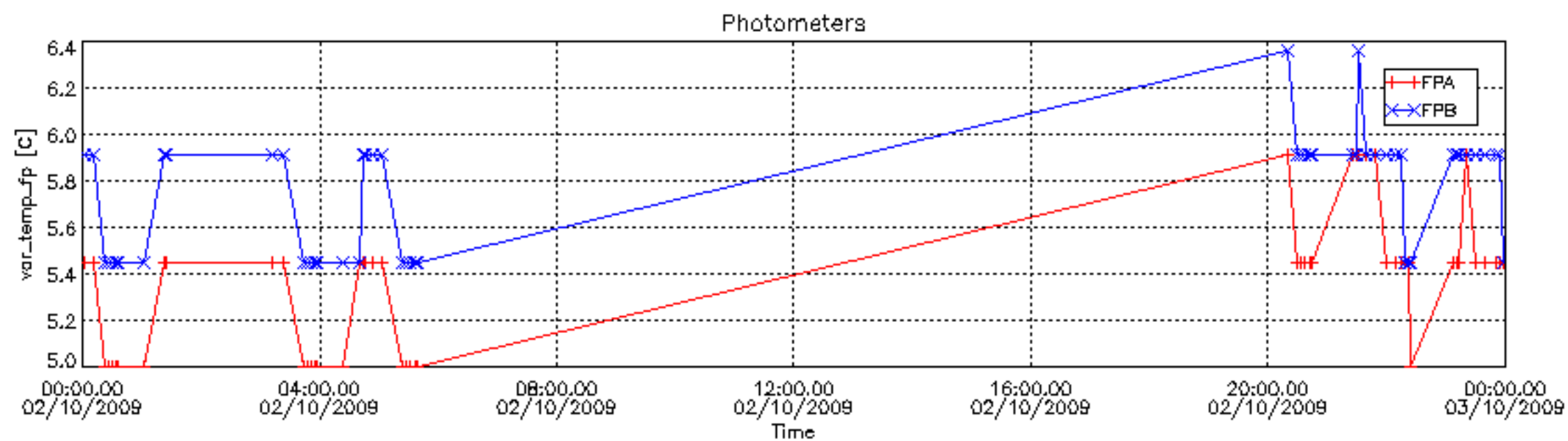
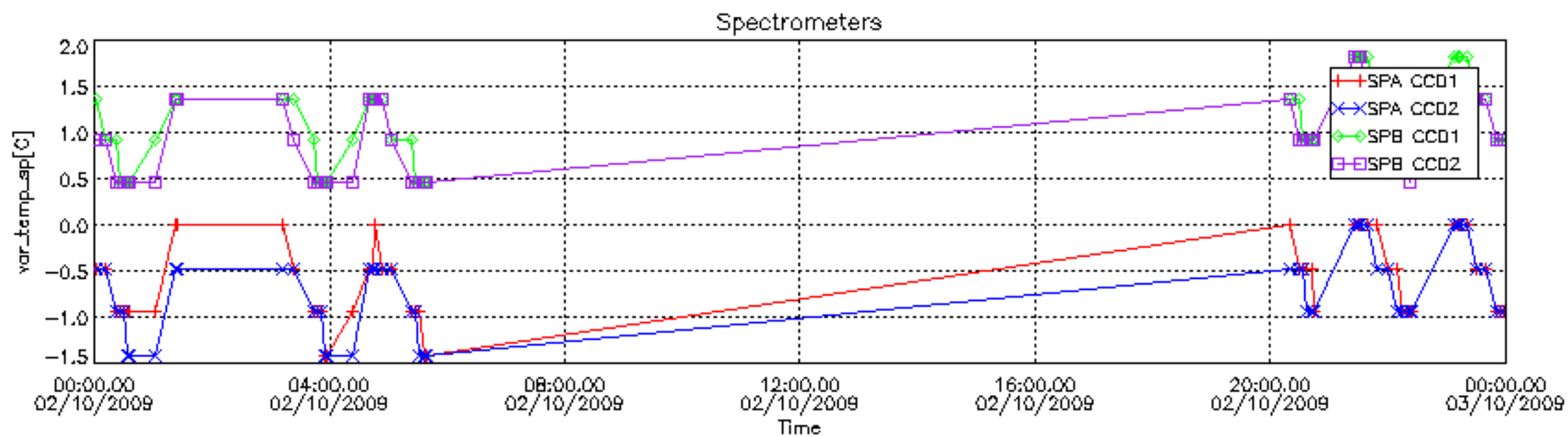
Lower curve: STD of SATU X axis

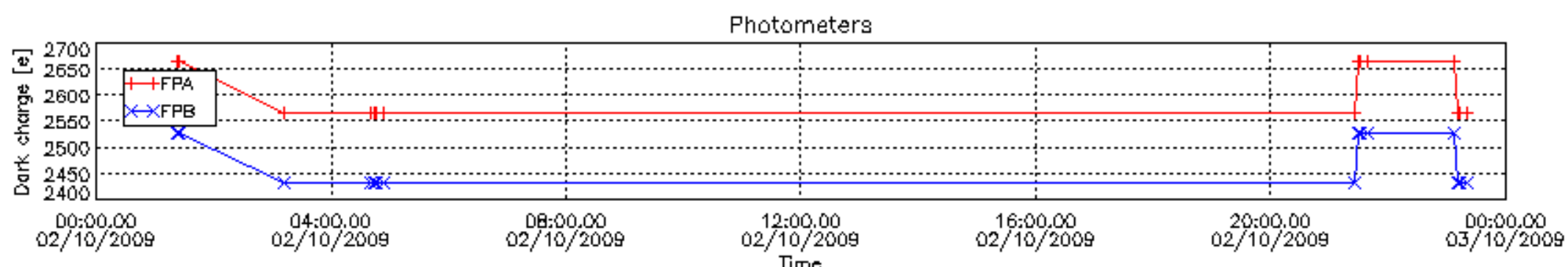
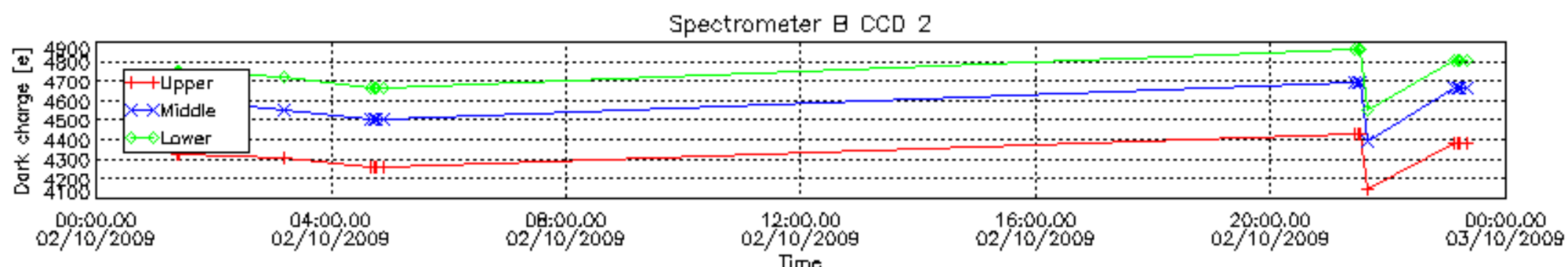
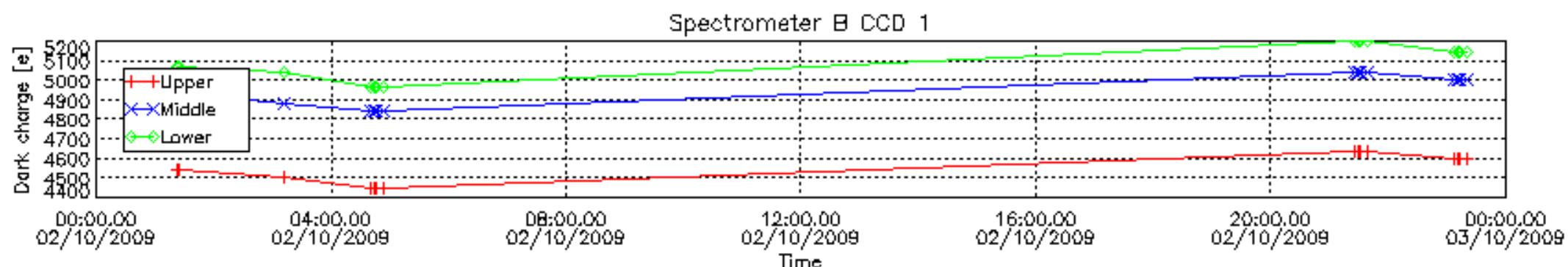
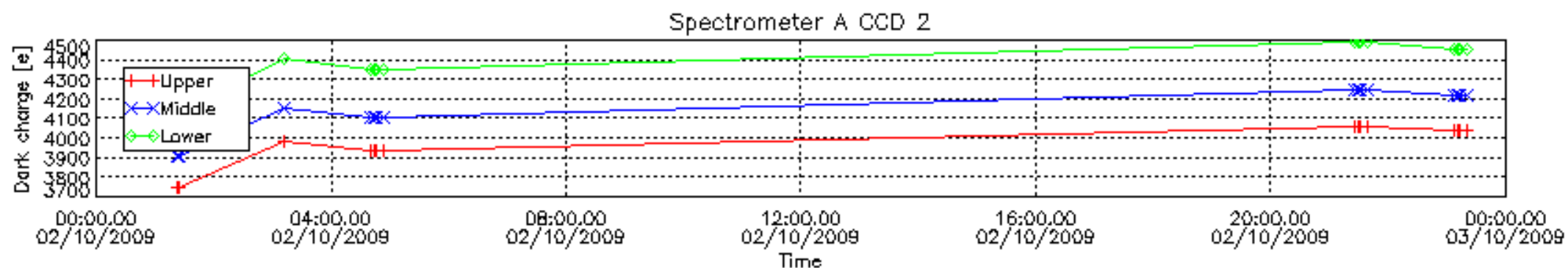
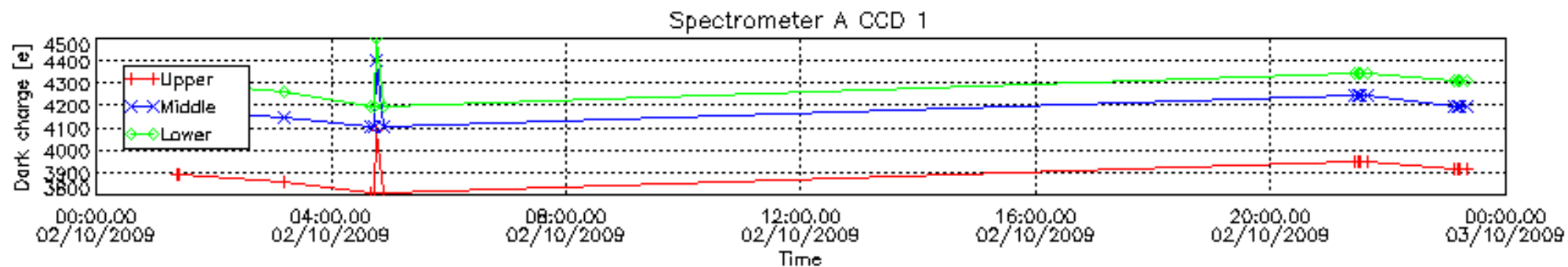


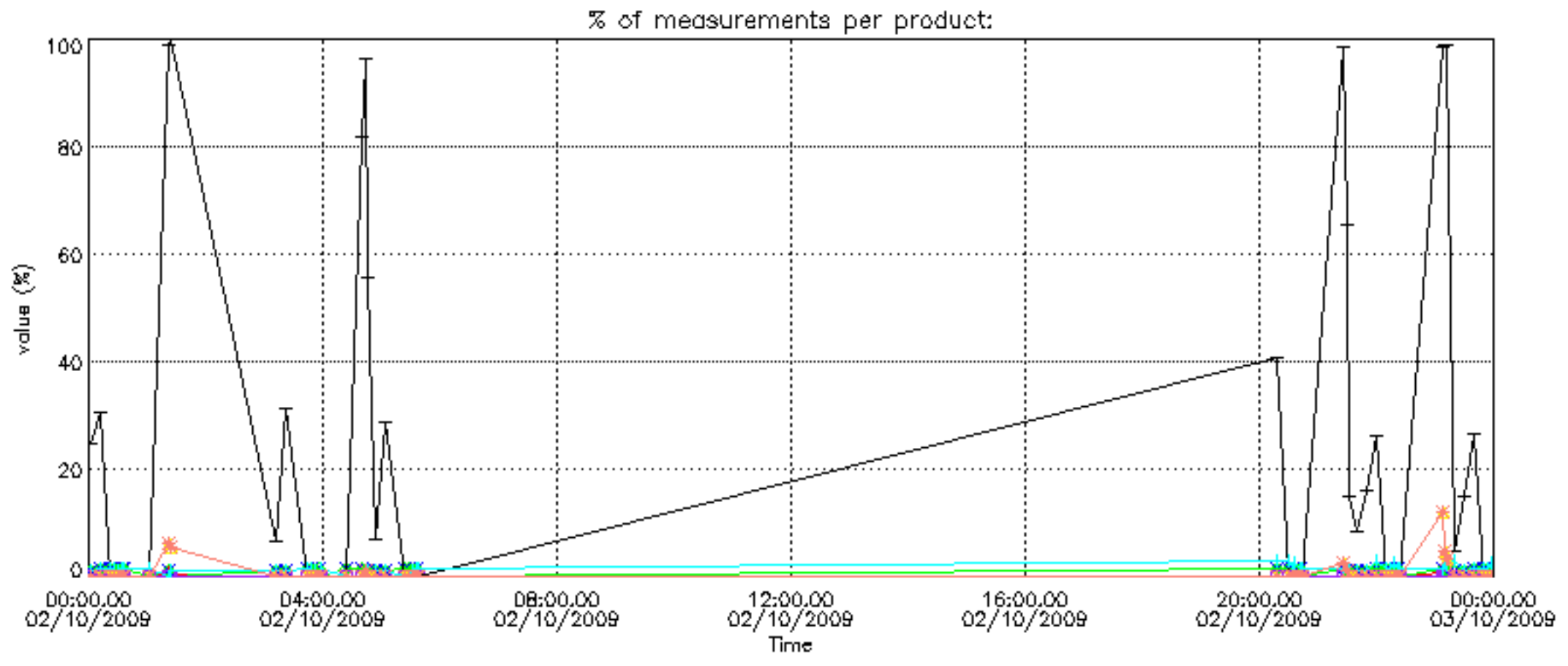
8. Auxiliary Data Files used for the production reported in section 2.4

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.

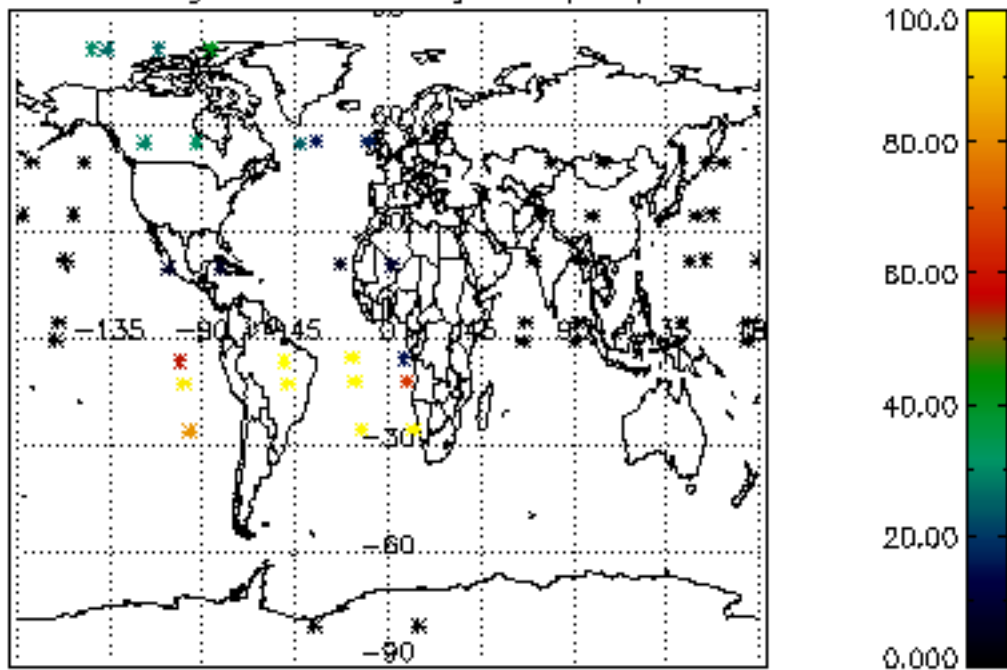
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090930_074316_20090929_000000_20100101_000000	1	02-OCT-2009 00:01:10
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-OCT-2009 00:01:10
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-OCT-2009 00:01:10
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-OCT-2009 00:01:10
ECMWF_FILE	AUX_ECF_AXNECM20091001_064111_20091001_210000_20091002_090000	1	02-OCT-2009 00:01:10
ECMWF_FILE	AUX_ECF_AXNECM20091001_184112_20091002_030000_20091002_150000	11	02-OCT-2009 03:12:27
ECMWF_FILE	AUX_ECA_AXNECM20091002_182112_20091002_090000_20091002_210000	29	02-OCT-2009 20:18:57
ECMWF_FILE	AUX_ECF_AXNECM20091002_064113_20091002_210000_20091003_090000	35	02-OCT-2009 21:26:25
OPTIONAL_ECMWF_FILE	MISSING	1	02-OCT-2009 00:01:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091001_233131_000057382083_00044_39677_8881.N1	1	02-OCT-2009 00:01:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091002_011228_000041442083_00045_39678_8882.N1	9	02-OCT-2009 01:22:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091002_022651_000054192083_00046_39679_8883.N1	11	02-OCT-2009 03:12:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091002_040230_000057382083_00047_39680_8884.N1	18	02-OCT-2009 04:23:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091002_200410_000041442083_00057_39690_8885.N1	29	02-OCT-2009 20:18:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091002_211833_000057382083_00057_39690_8886.N1	35	02-OCT-2009 21:26:25
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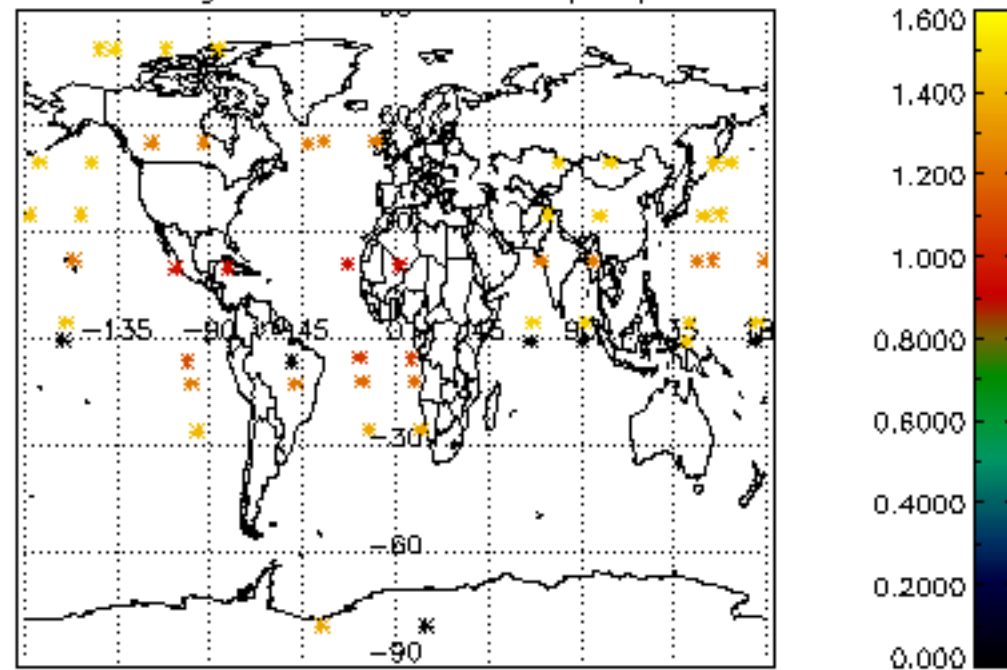




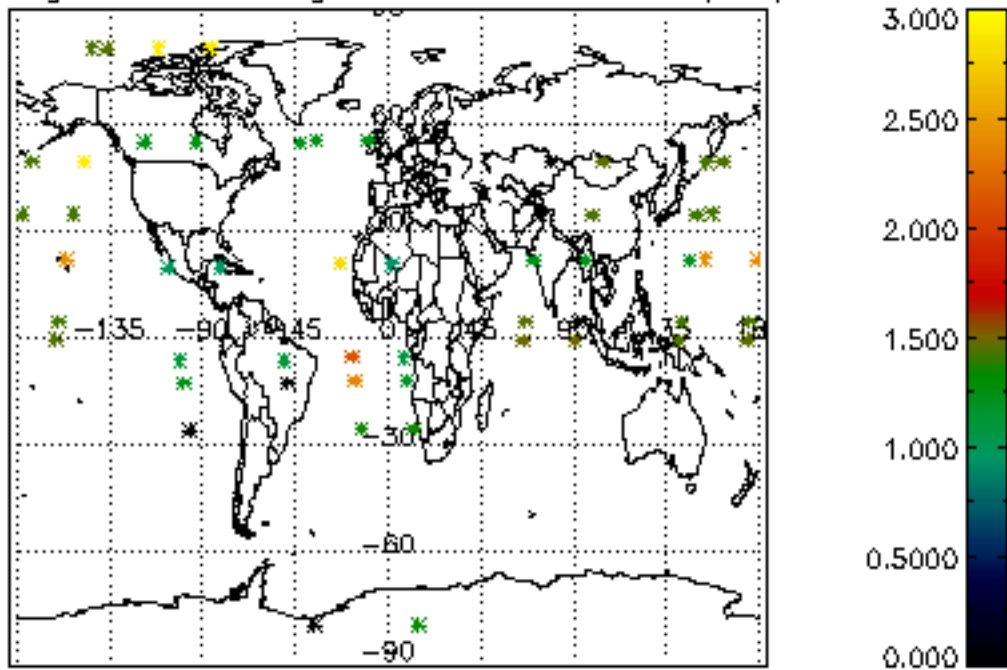
Percentage of cosmic ray hits per profile



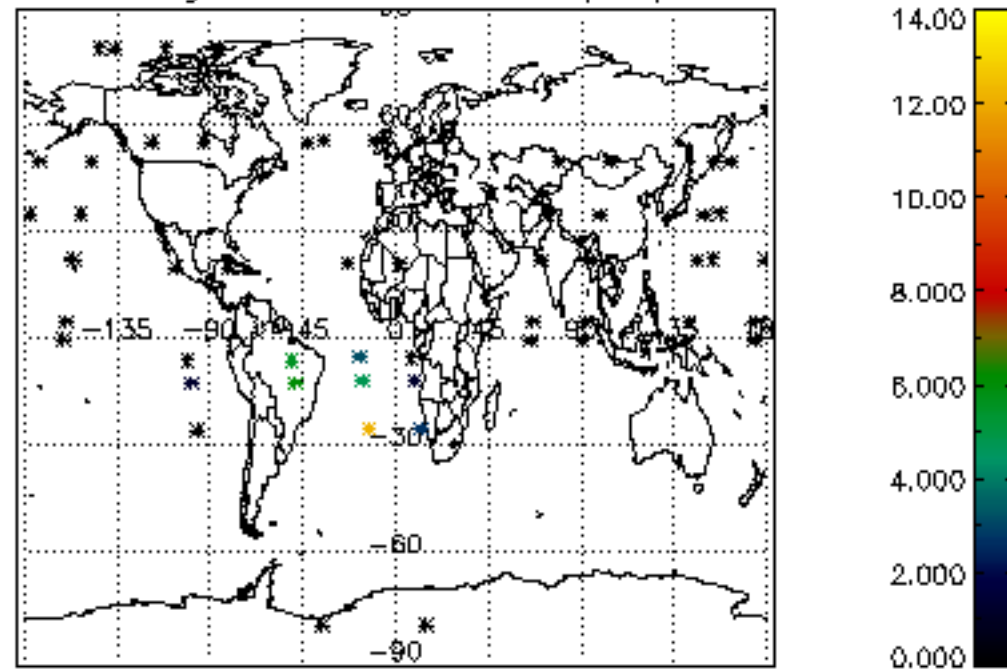
Percentage of datation errors per profile



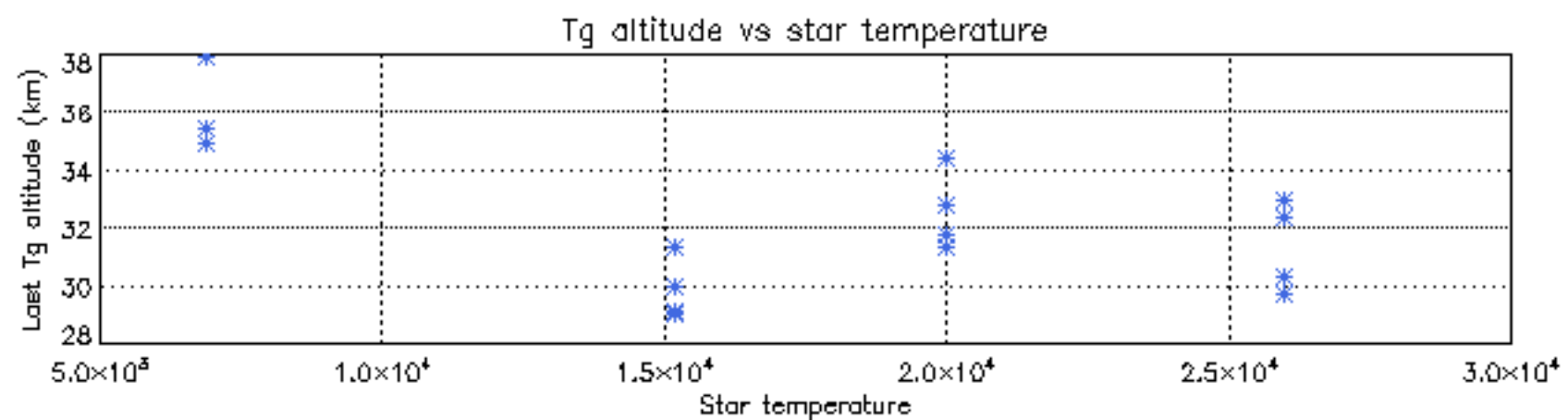
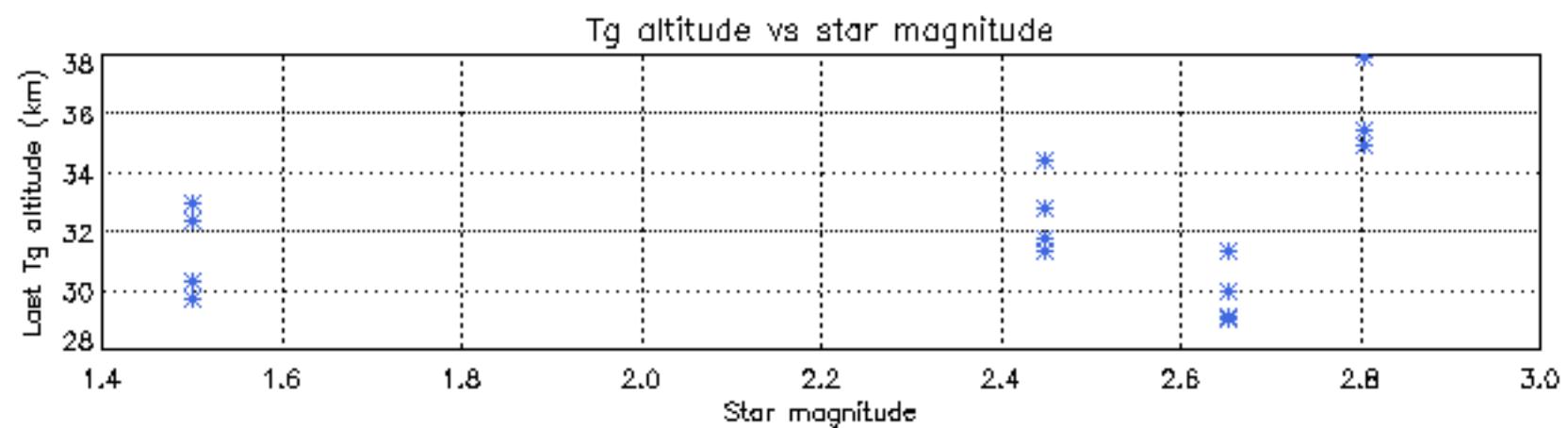
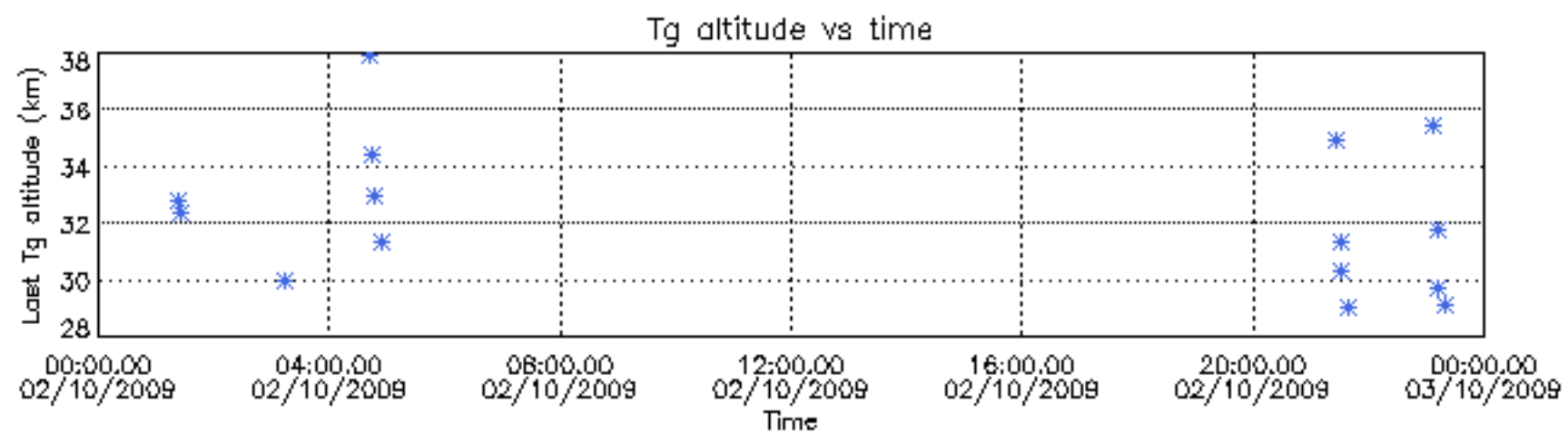
Percentage of star falling outside central band per profile



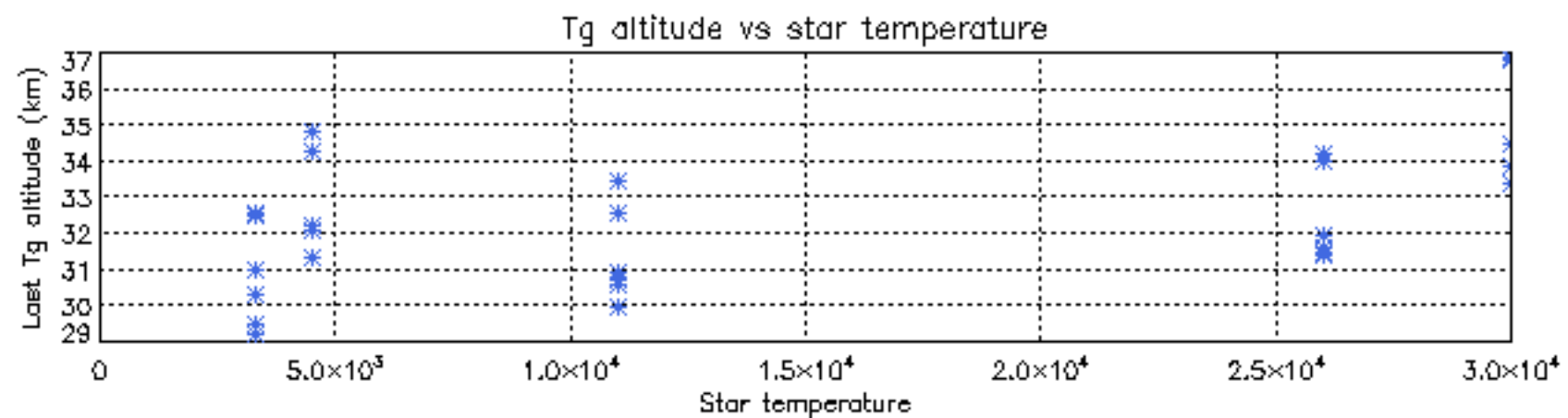
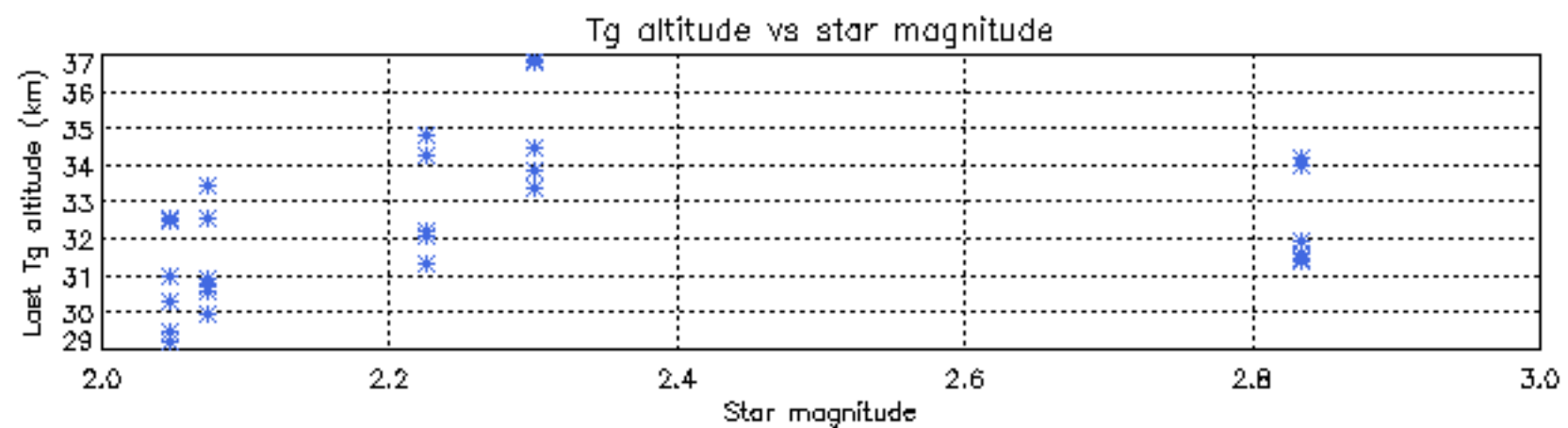
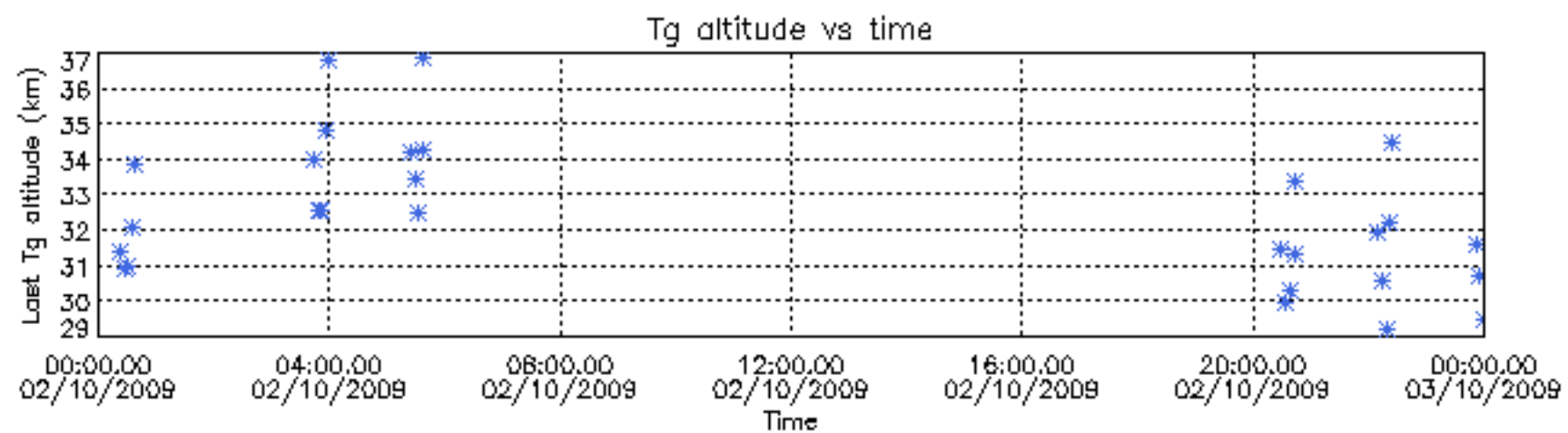
Percentage of saturation errors per profile

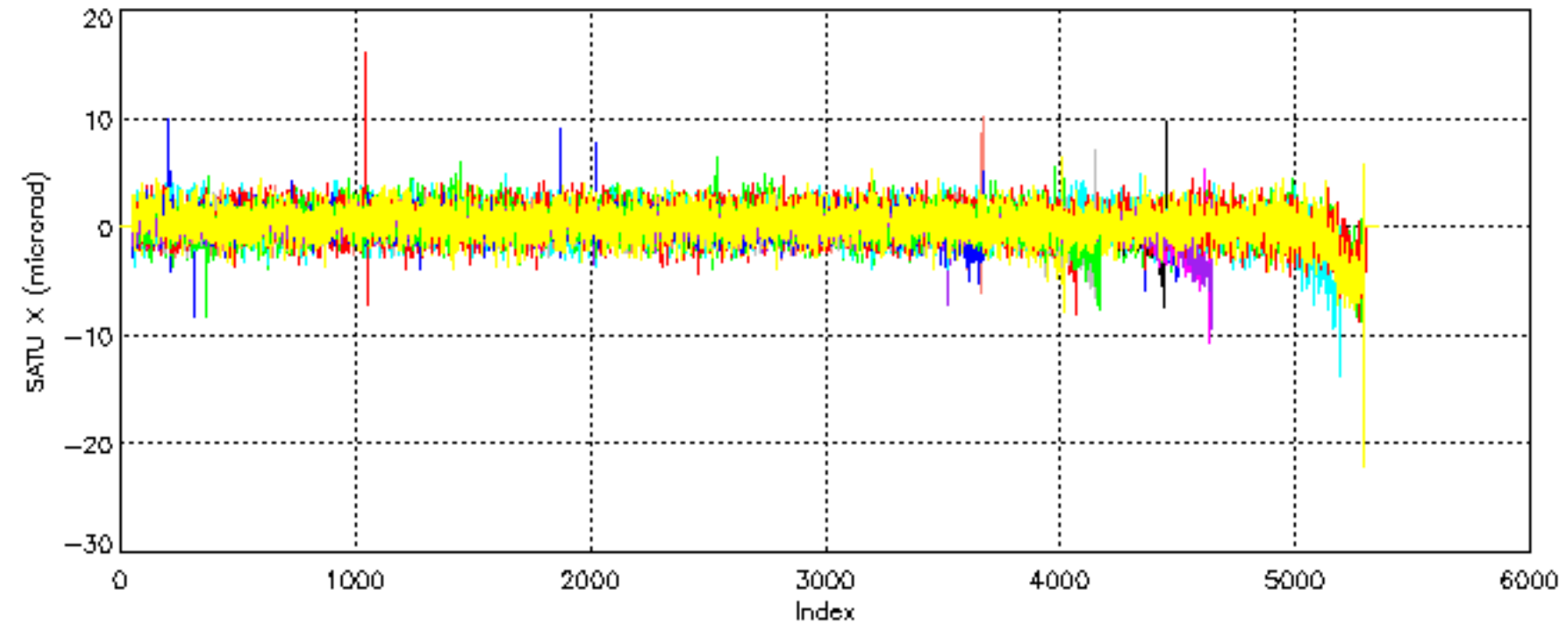


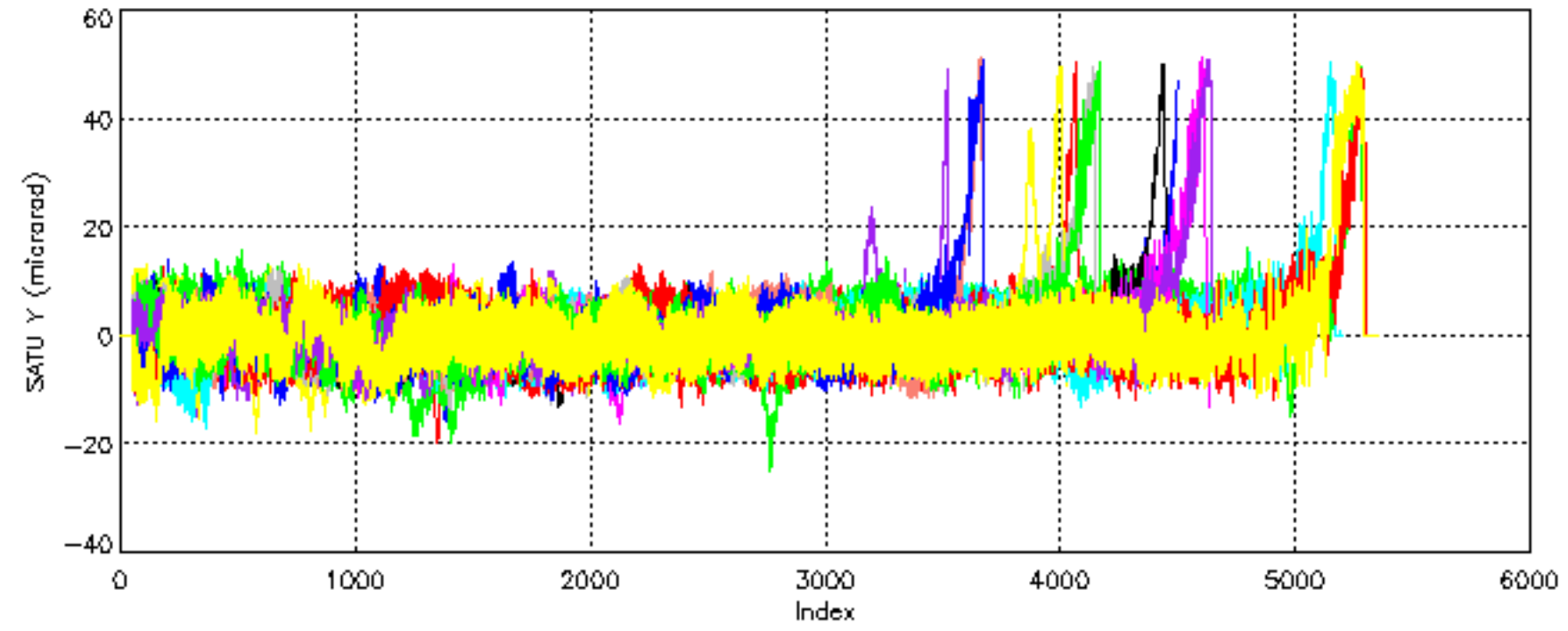
Tangent altitude at which the star is lost

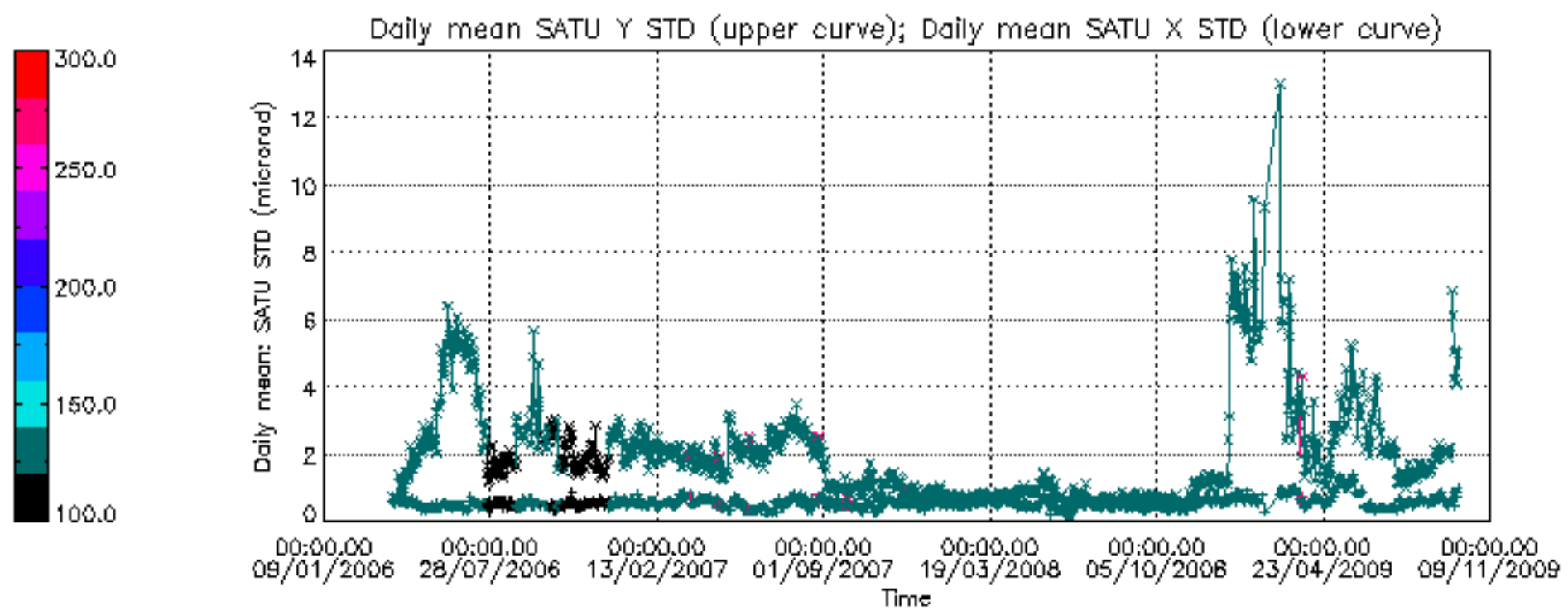


Tangent altitude at which the star is lost









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4; 113.2; 01-OCT-2009 22:07:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39677
5; 325.1; 01-OCT-2009 22:10:34; Dark ; 60.5; 108; Alp Col ; 2.65; 15200;occ; 121; 0;39677
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7; 4603.6; 01-OCT-2009 13:18:17; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;39671
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3; 2591.6; 22-OCT-2009 20:07:24; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;39976
4; 2709.5; 22-OCT-2009 20:09:22; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;39976
5; 2844.0; 22-OCT-2009 20:11:36; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;39976
6; 3010.3; 22-OCT-2009 20:14:23; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0;39976
7; 4662.2; 22-OCT-2009 20:41:55; Bright; 32.0; 166; 17Eps Leo ; 2.98; 6000;occ; 64; 0;39976
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2; 2569.4; 26-OCT-2009 04:35:46; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40024
3; 2689.4; 26-OCT-2009 04:37:46; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40024
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2; 2568.9; 26-OCT-2009 06:16:22; Bright; 2.0; 173; 4Bet Tri ; 3.00; 8900;occ; 4; 0;40025
3; 2688.2; 26-OCT-2009 06:18:21; Bright; 3.5; 73; 57Gam1And ; 2.26; 13100;occ; 7; 0;40025
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2; 123.6; 26-OCT-2009 07:16:12; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40026
3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
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3; 6162.6; 26-OCT-2009 12:18:03; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40028
4; 6309.4; 26-OCT-2009 12:20:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40028
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3; 5407.6; 26-OCT-2009 13:46:04; Dark ; 19.5; 48; 30Alp Hya ; 1.98; 4100;occ; 39; 0;40029
4; 6163.3; 26-OCT-2009 13:58:40; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40029
5; 6310.4; 26-OCT-2009 14:01:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40029
6; 6499.0; 26-OCT-2009 14:04:15; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;40029
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2; 2686.9; 26-OCT-2009 14:41:19; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40030
3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
4; 6311.4; 26-OCT-2009 15:41:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40030
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3; 6313.3; 26-OCT-2009 19:02:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40032
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3; 278.2; 26-OCT-2009 20:43:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40034
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2; 2681.2; 27-OCT-2009 15:50:12; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40045
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