

GOMOS Daily Report 14-SEP-2006

Level 0 and Level 1 products

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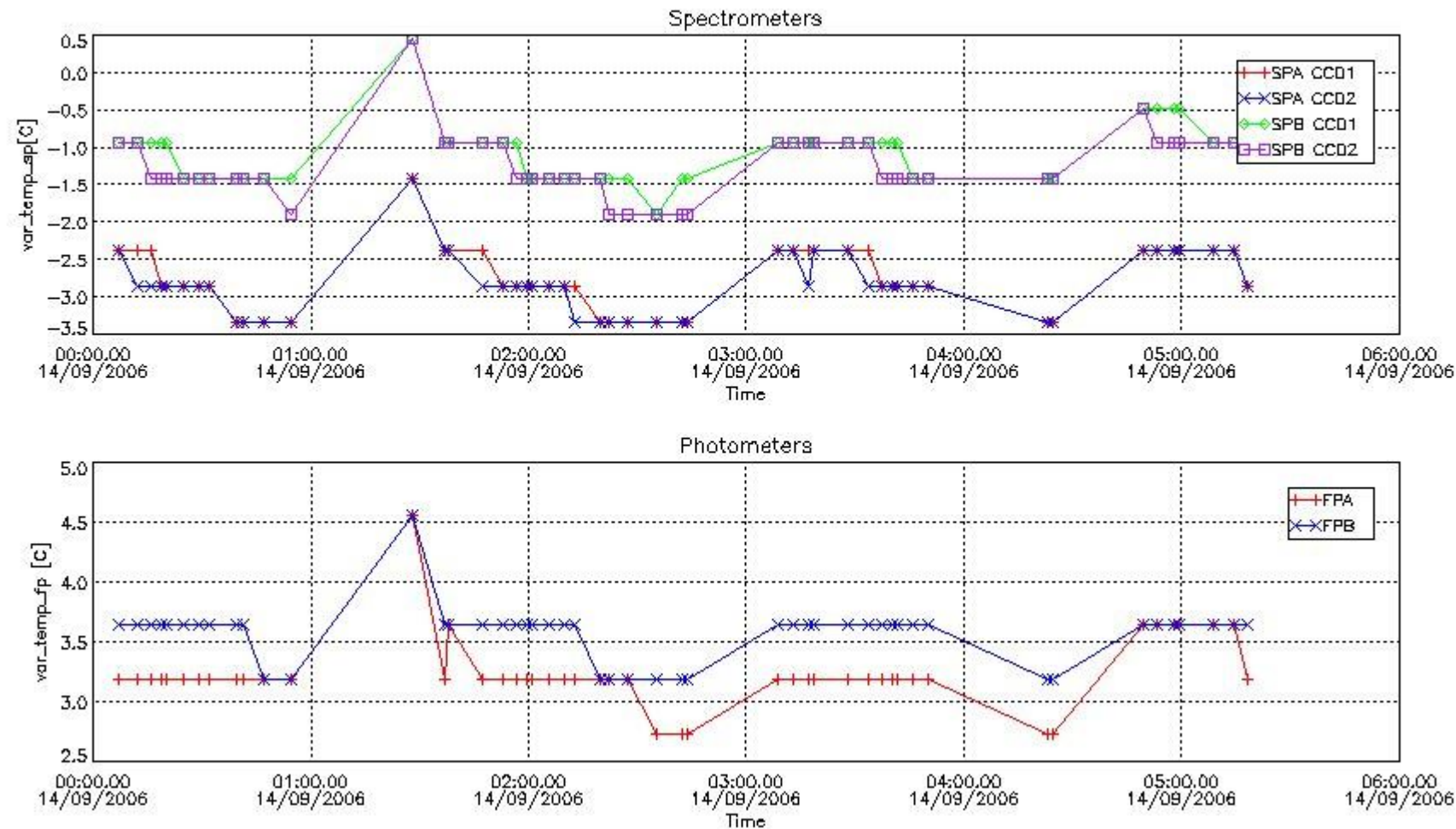
[Level 2 products](#)

1. General Info

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

43	GOM_TRA_1PNPDE20060914_044912_000000422051_00133_23734_1282.N1	14-SEP-2006 04:49:12	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	23734	No
44	GOM_TRA_1PNPDE20060914_045323_000000392051_00133_23734_1283.N1	14-SEP-2006 04:53:23	Dark	38.500	70	Zet Pup	2.2460	39000.0	77	23734	No
45	GOM_TRA_1PNPDE20060914_045800_000000402051_00133_23734_1284.N1	14-SEP-2006 04:58:00	Dark	39.500	161	Tau Pup	2.9310	4500.0	79	23734	No
46	GOM_TRA_1PNPDE20060914_045918_000000562051_00134_23735_1285.N1	14-SEP-2006 04:59:18	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	23735	No
47	GOM_TRA_1PNPDE20060914_050839_000000372051_00134_23735_1286.N1	14-SEP-2006 05:08:39	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	23735	No
48	GOM_TRA_1PNPDE20060914_051413_000000412051_00134_23735_1287.N1	14-SEP-2006 05:14:13	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	23735	No
49	GOM_TRA_1PNPDE20060914_051756_000000402051_00134_23735_1288.N1	14-SEP-2006 05:17:56	Straylight	39.500	31	Alp Gru	1.7340	15200.0	79	23735	No

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



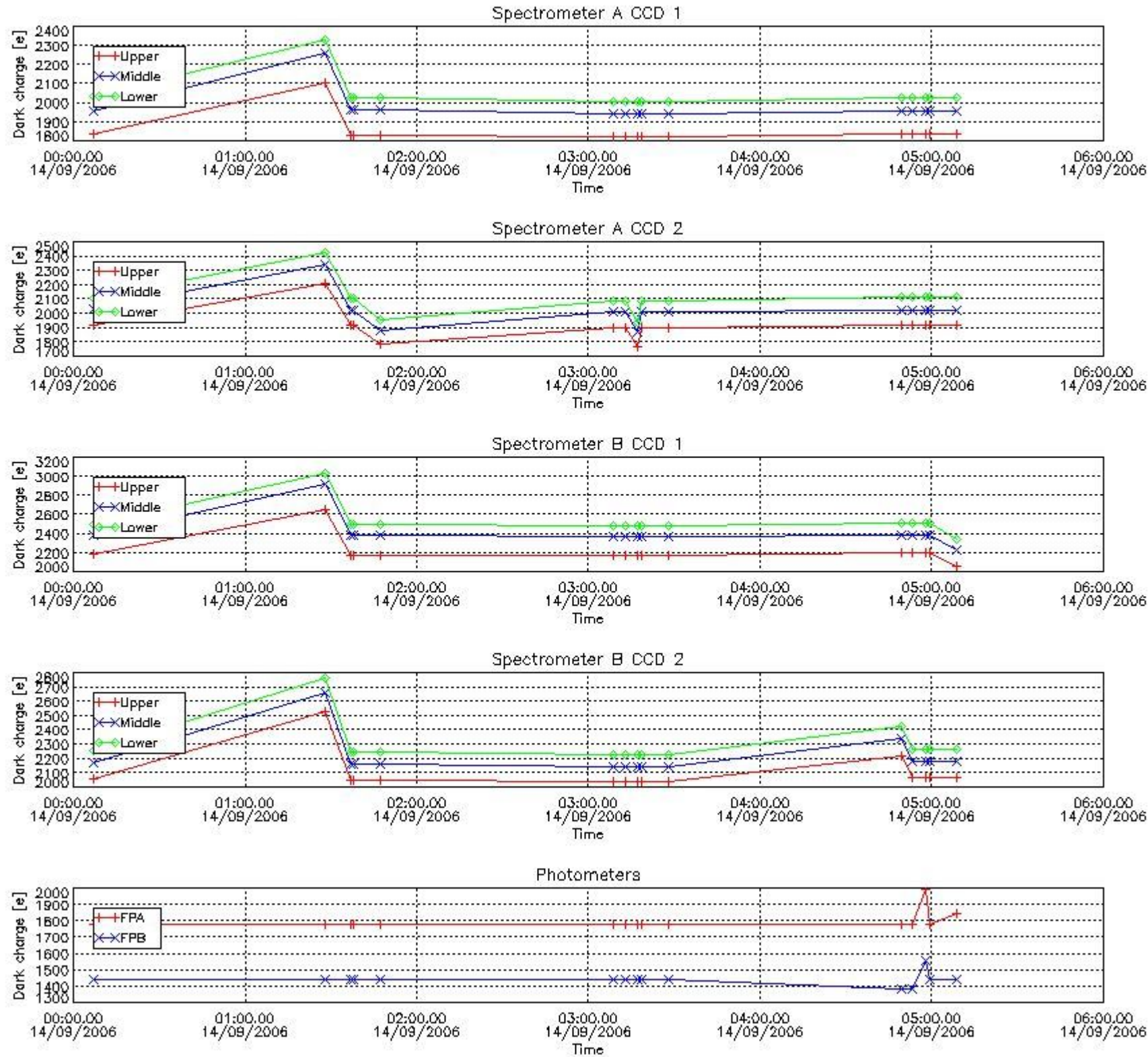
4. Overview of dark signal processing per product

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



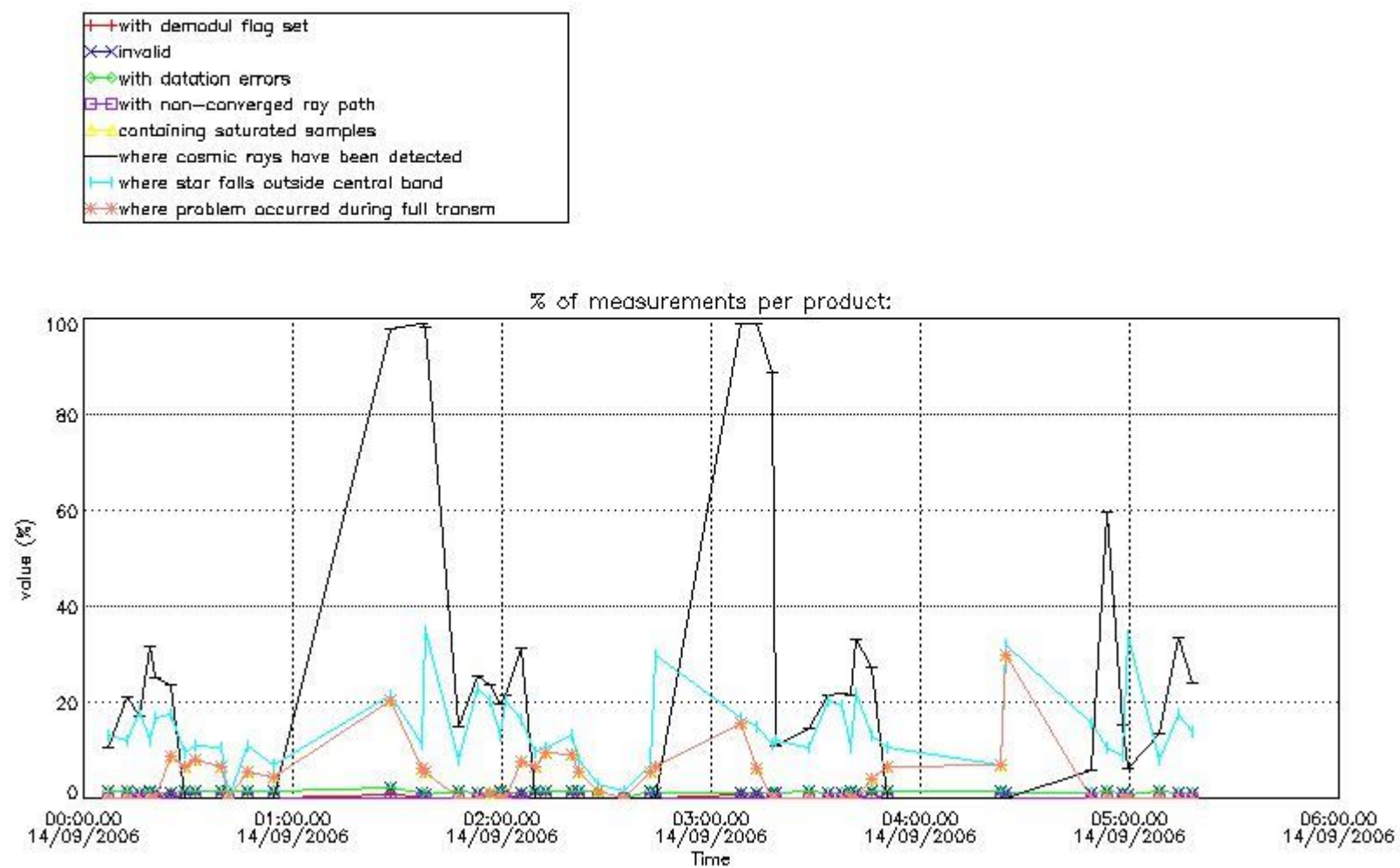
5. Demodulation flag and quality information monitoring

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.

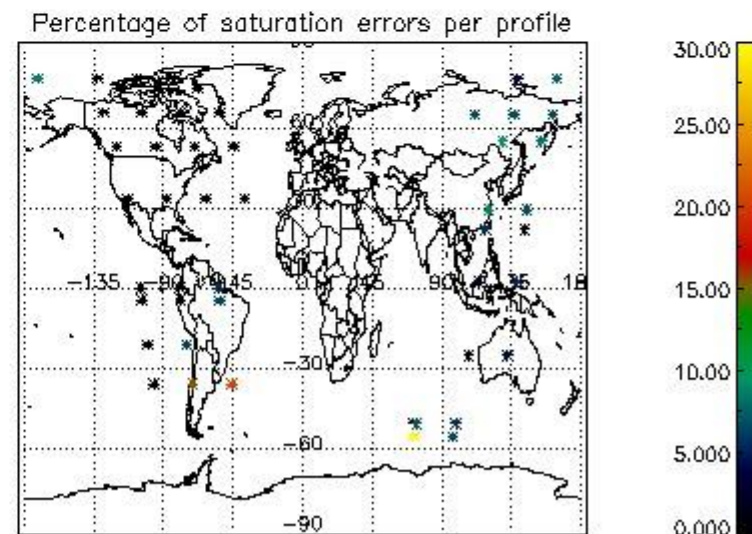
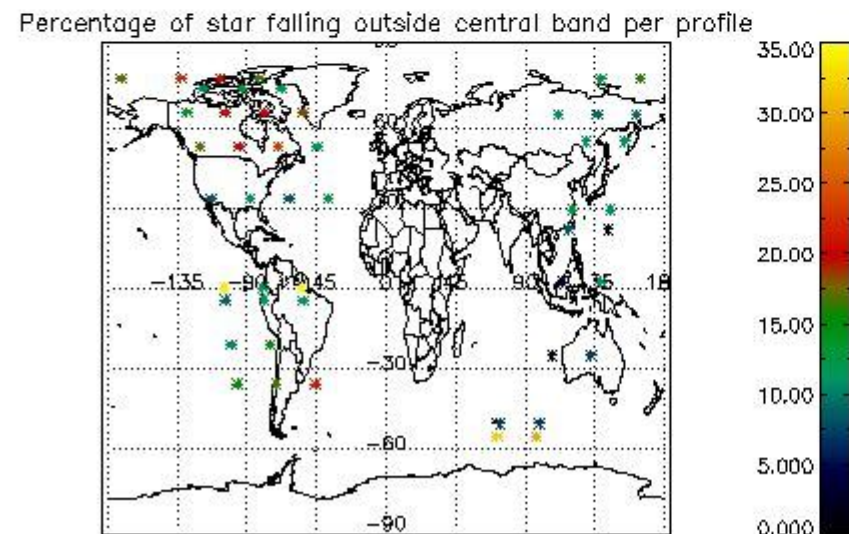
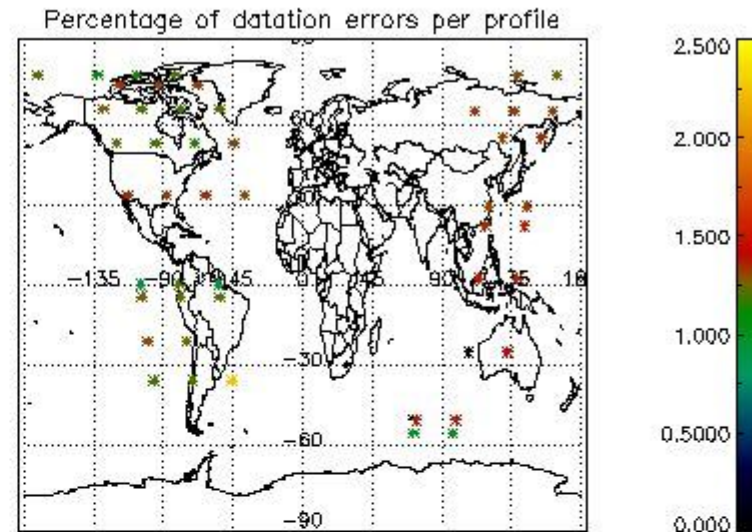
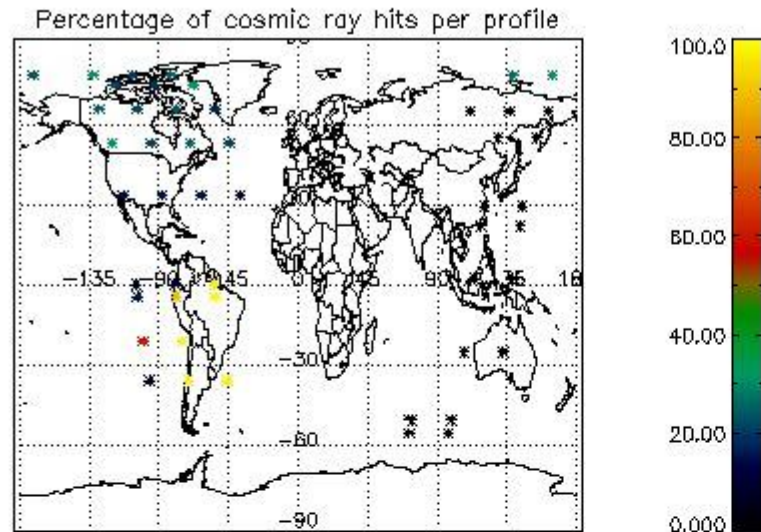
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.4898 %
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)



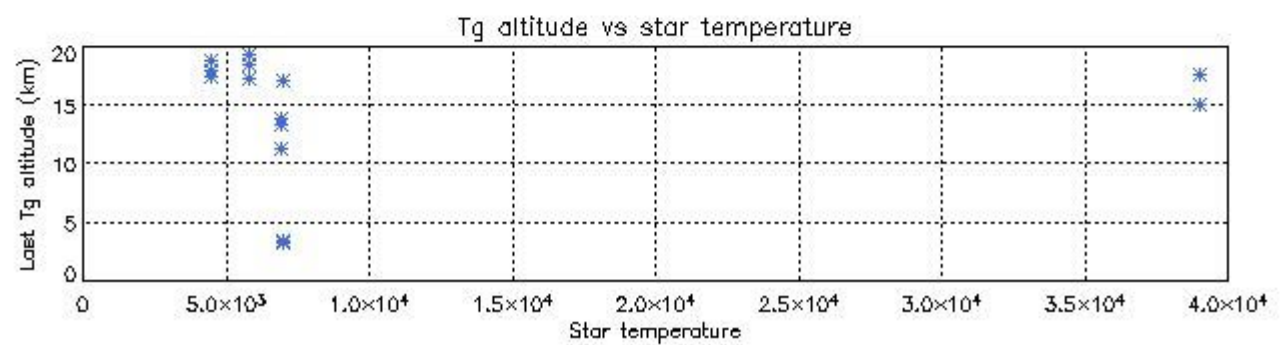
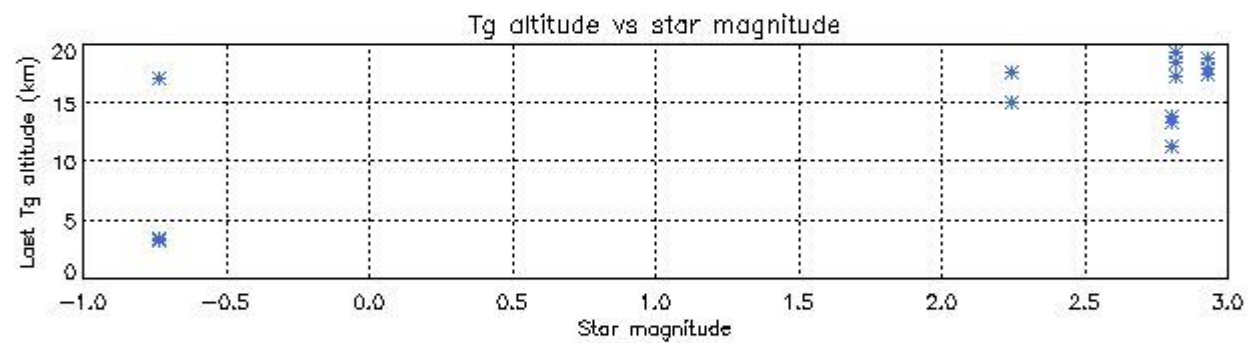
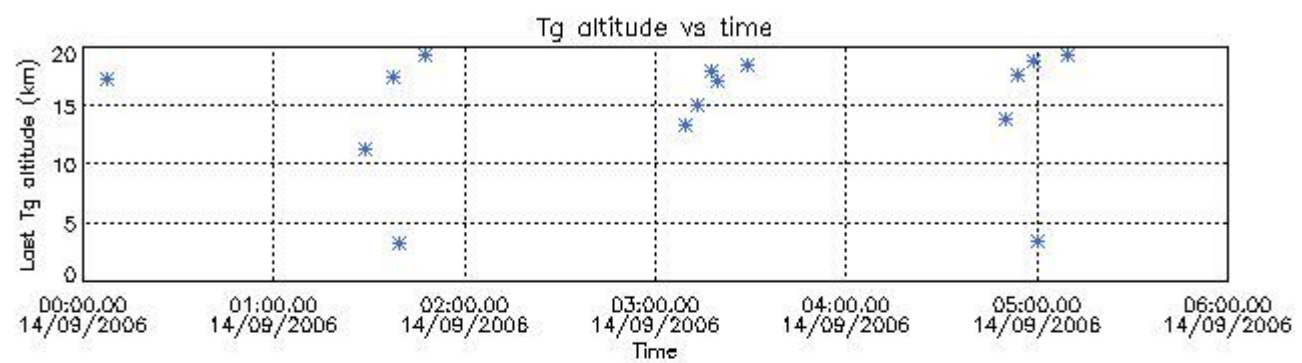
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.866	18.242	NaN
St. deviation:	5.2519	5.3075	NaN
Maximum:	19.388	25.965	NaN
Minimum:	3.2259	6.2914	NaN
Number of data:	15.000	17.000	NaN

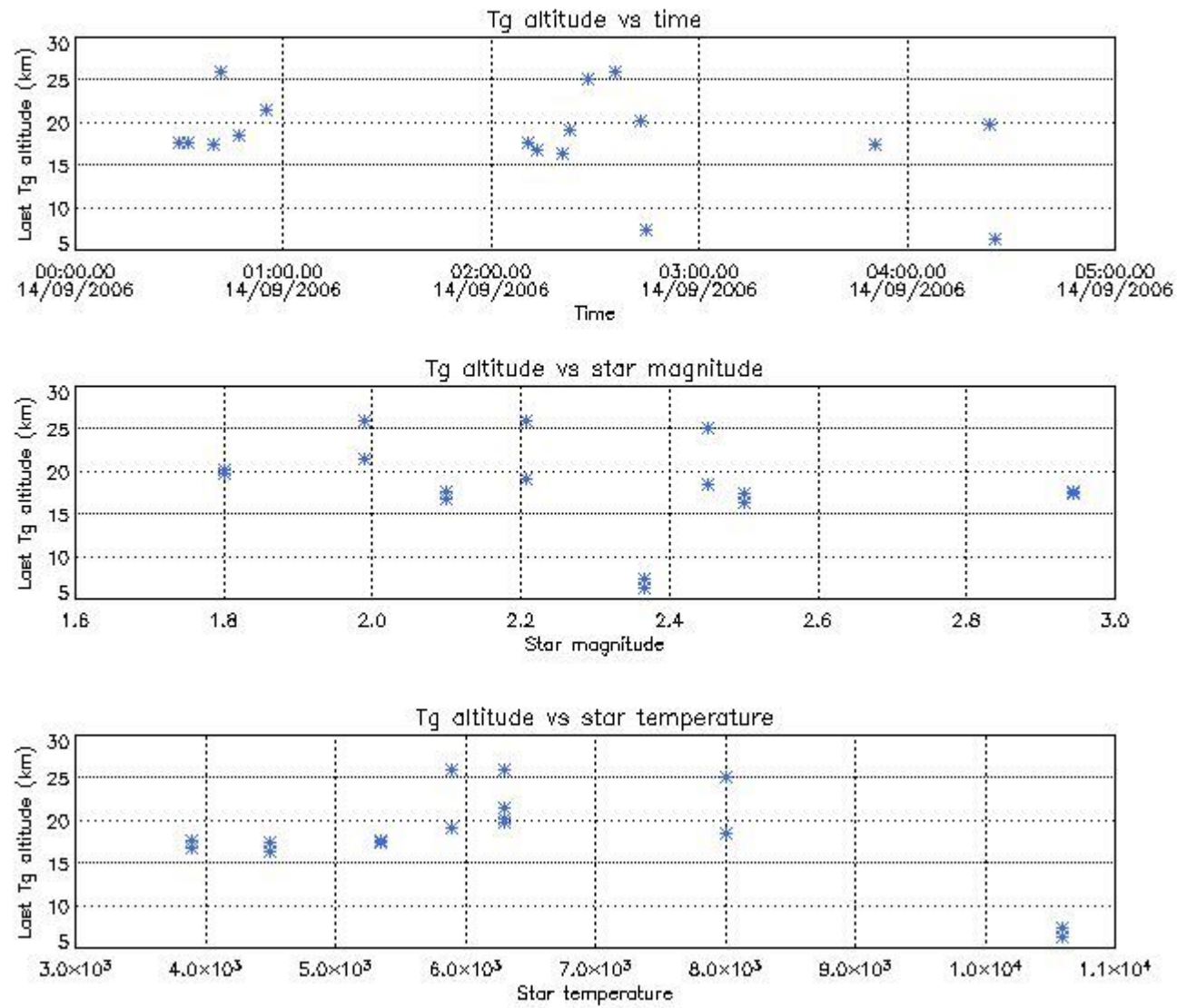
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

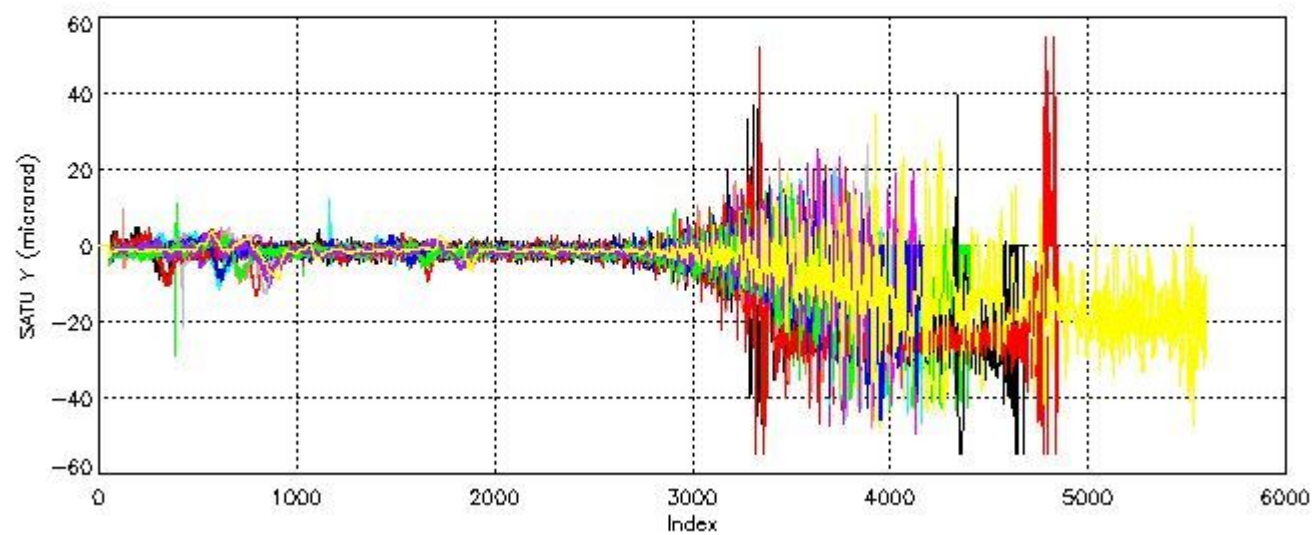
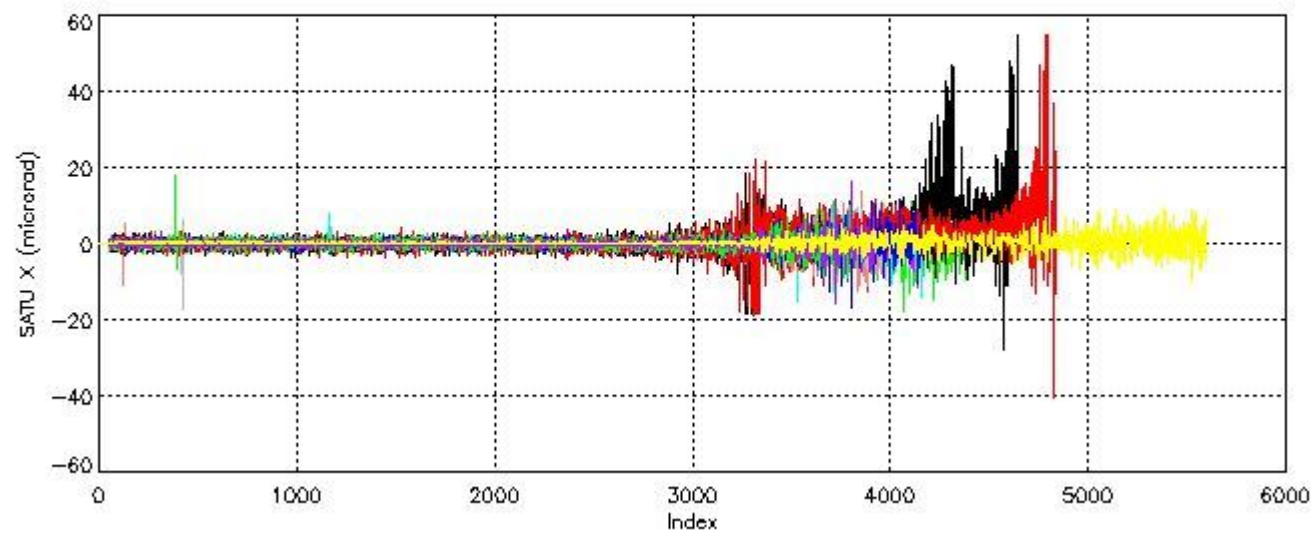


7. Star Acquisition and Tracking Unit (SATU)

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.

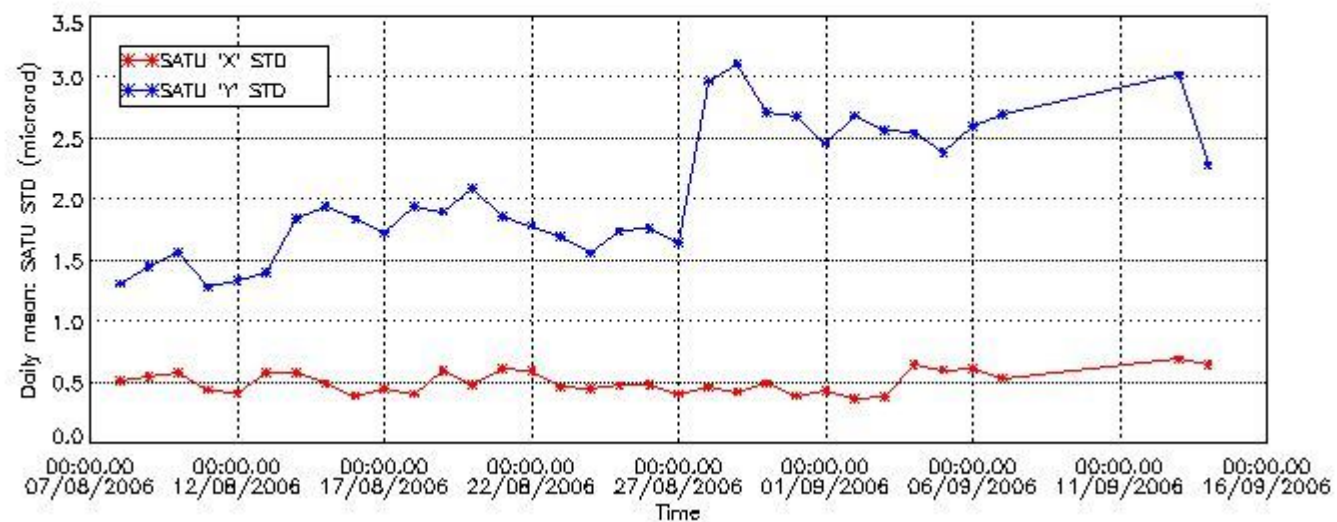
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	-0.015399	-1.3568	-0.0059533	-1.2882
St. deviation:	0.64009	2.2785	0.65647	2.2019
Maximum:	18.000	11.100	3.4000	5.1000
Minimum:	-2.6000	-10.800	-3.2000	-10.400

Number of data:	13450.	13450.	13900.	13900.
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7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

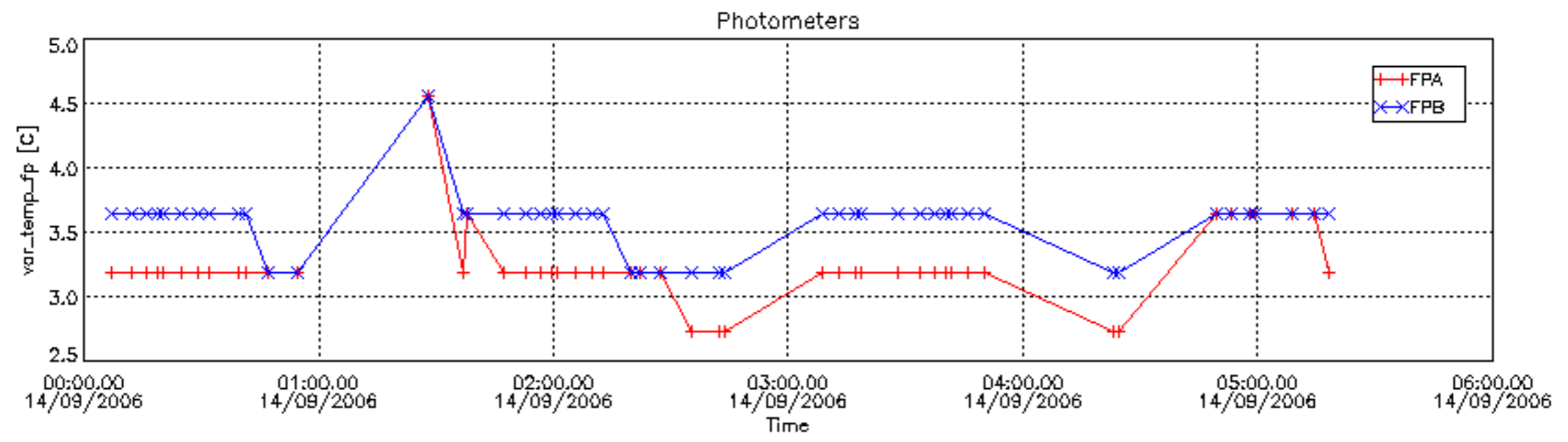
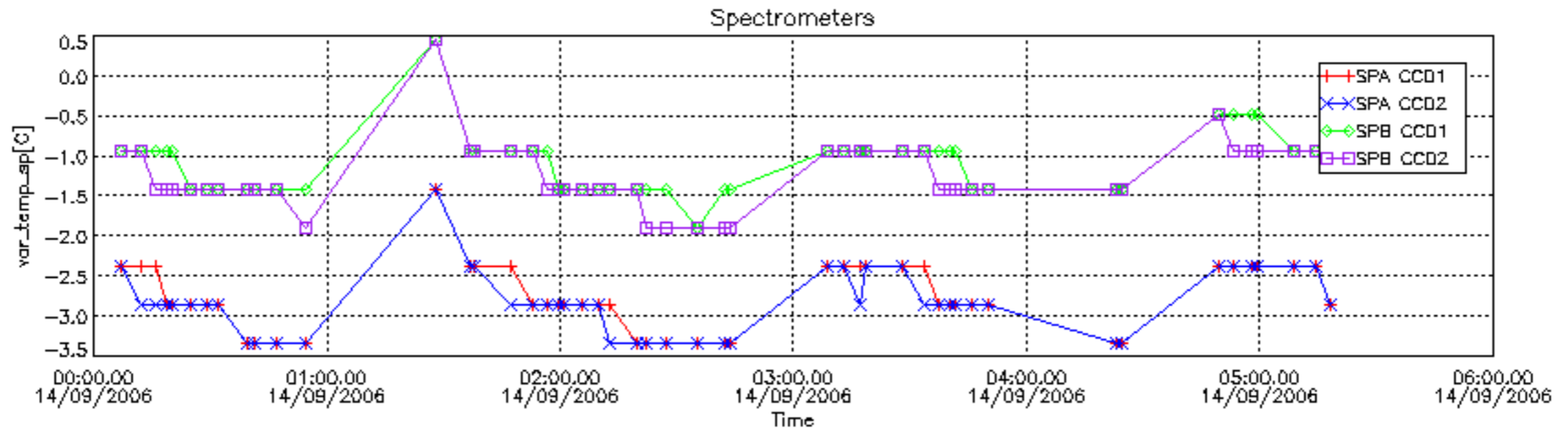
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

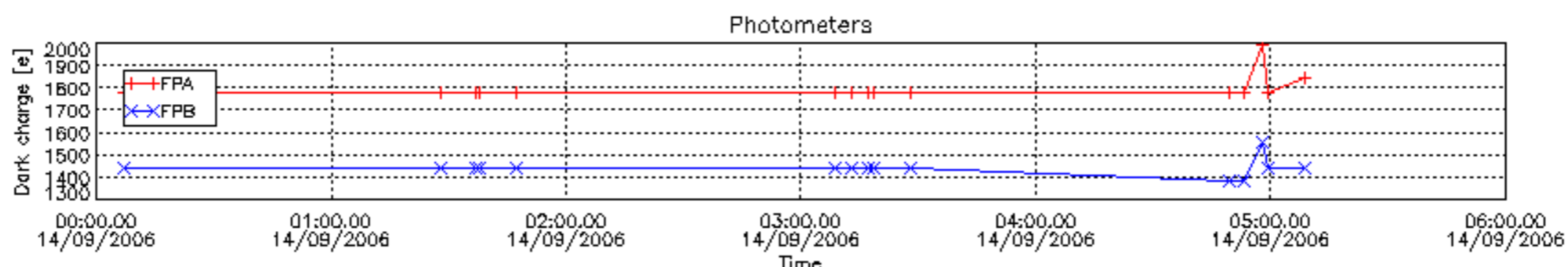
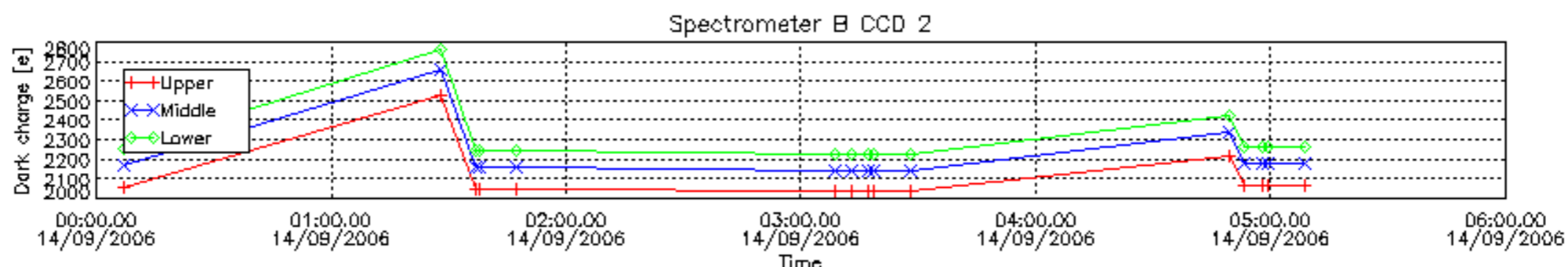
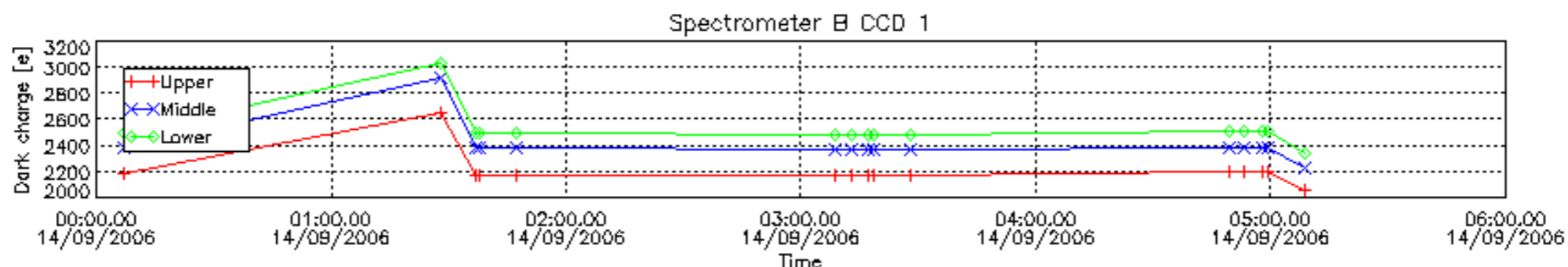
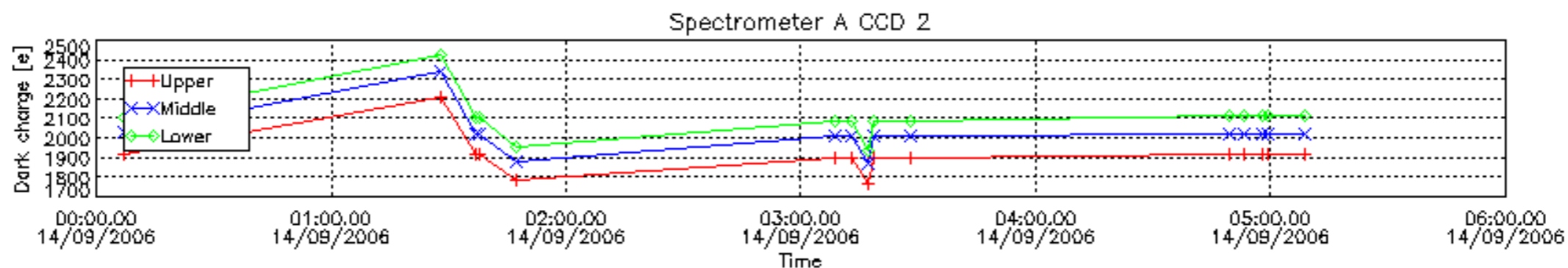
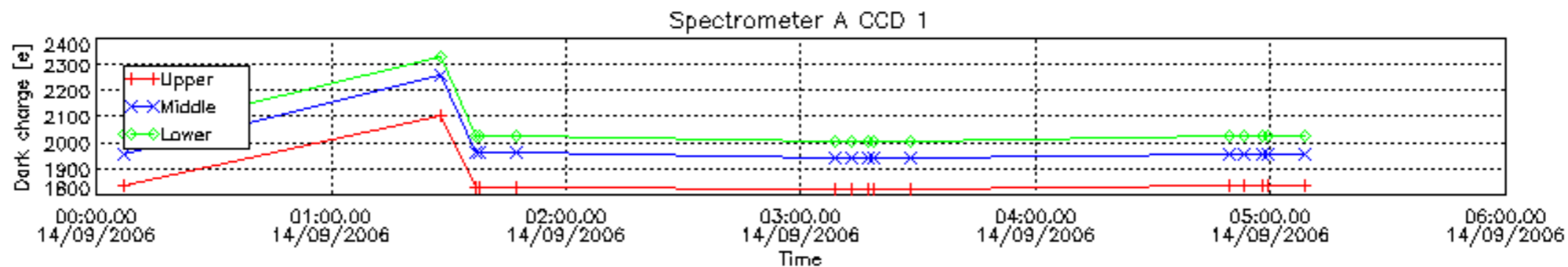


8. Auxiliary Data Files used for the production reported in section 2.2

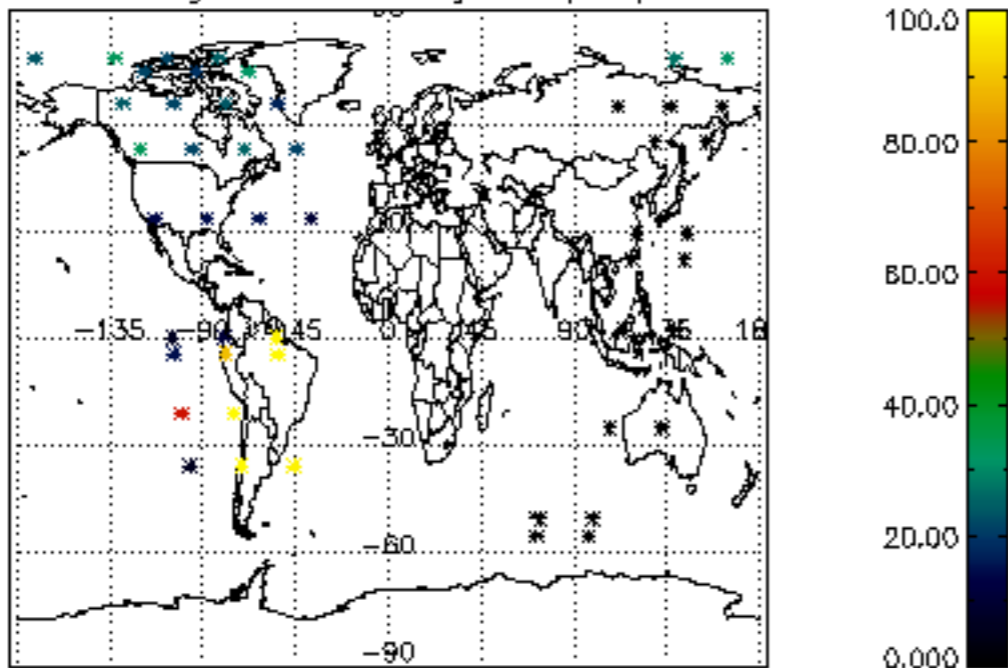
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	14-SEP-2006 00:06:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060904_154109_20060902_000000_20100101_000000	1	14-SEP-2006 00:06:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-SEP-2006 00:06:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-SEP-2006 00:06:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-SEP-2006 00:06:51
ECMWF_FILE	AUX_ECF_AXNECM20060913_062651_20060913_210000_20060914_090000	1	14-SEP-2006 00:06:51
ECMWF_FILE	AUX_ECA_AXNECM20060914_061024_20060913_210000_20060914_090000	41	14-SEP-2006 04:23:02
OPTIONAL_ECMWF_FILE	MISSING	1	14-SEP-2006 00:06:51
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060913_090559_20060912_192714_20060922_205327	1	14-SEP-2006 00:06:51
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060914_115932_20060913_185537_20060923_202153	41	14-SEP-2006 04:23:02

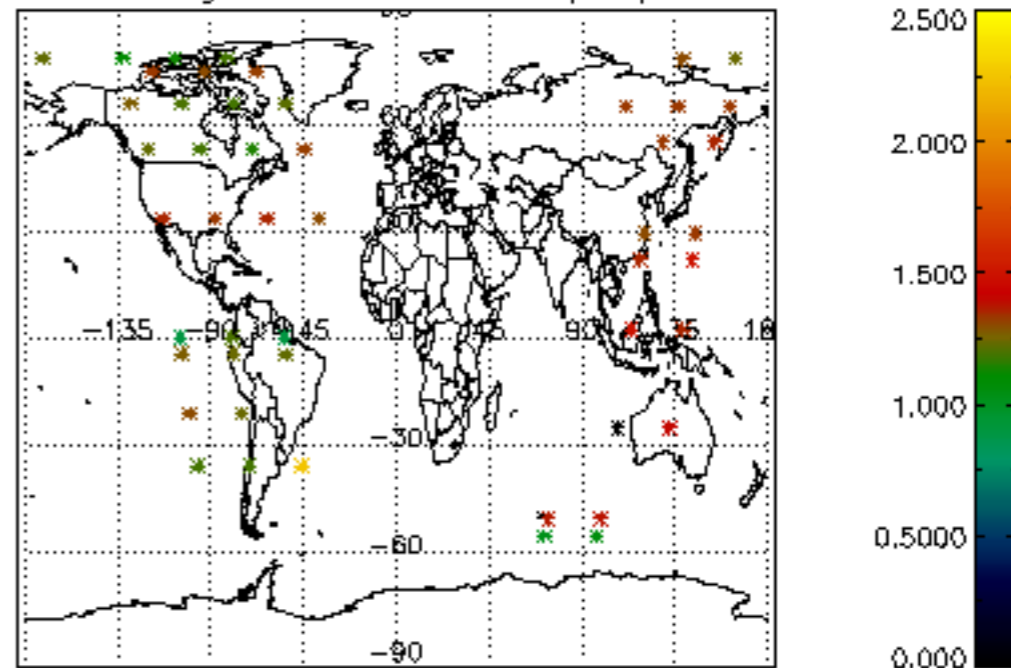




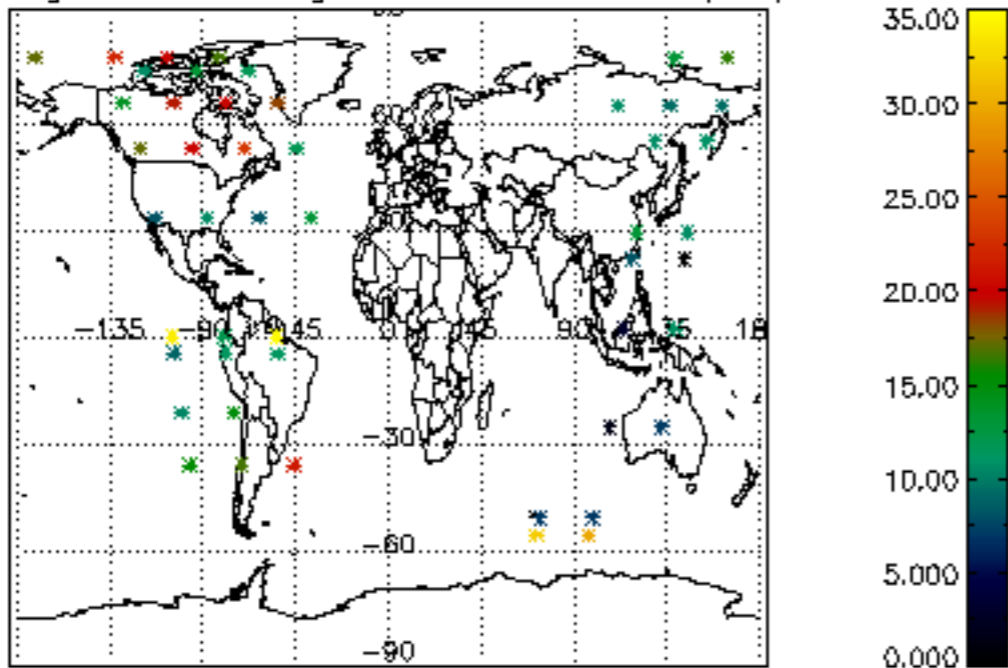
Percentage of cosmic ray hits per profile



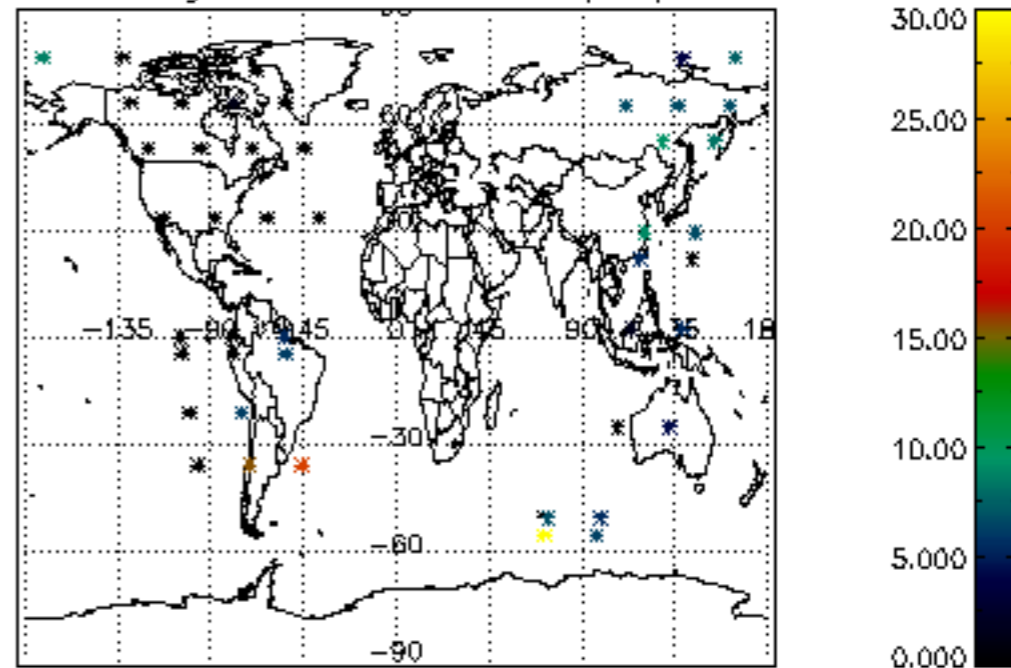
Percentage of datation errors per profile



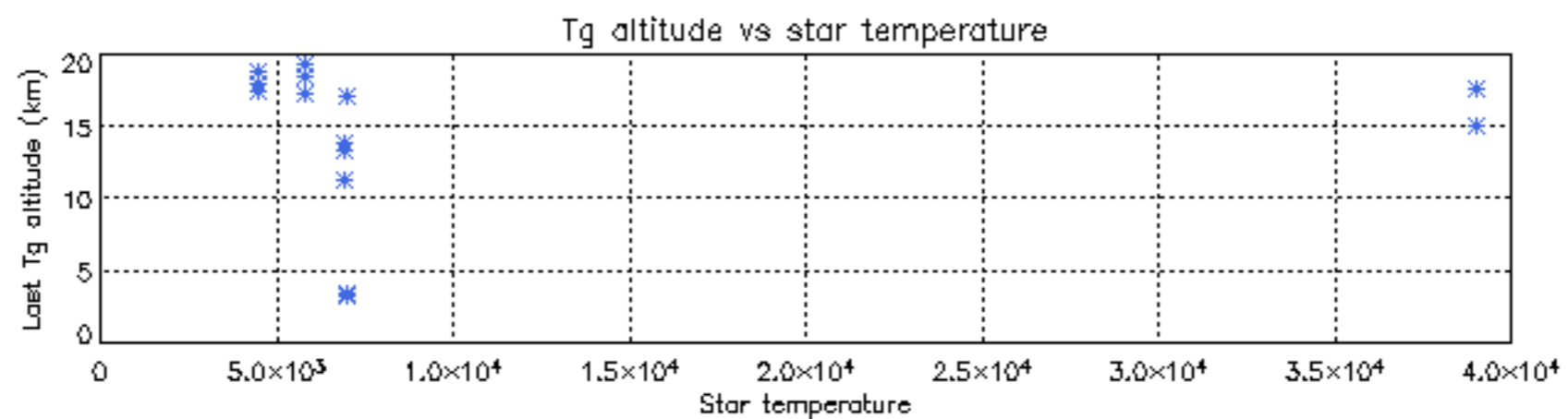
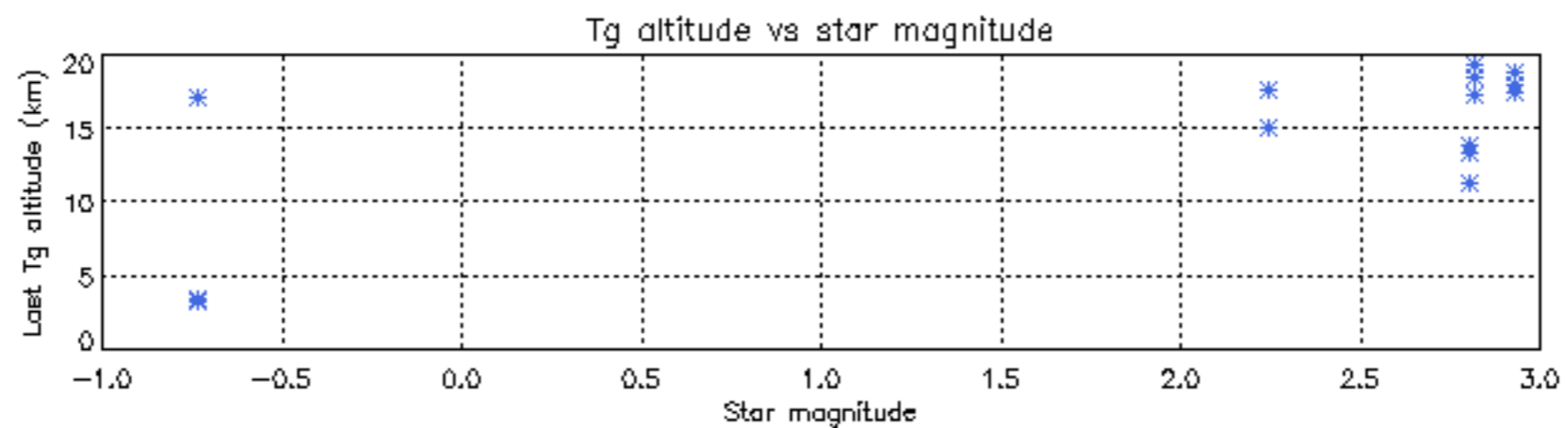
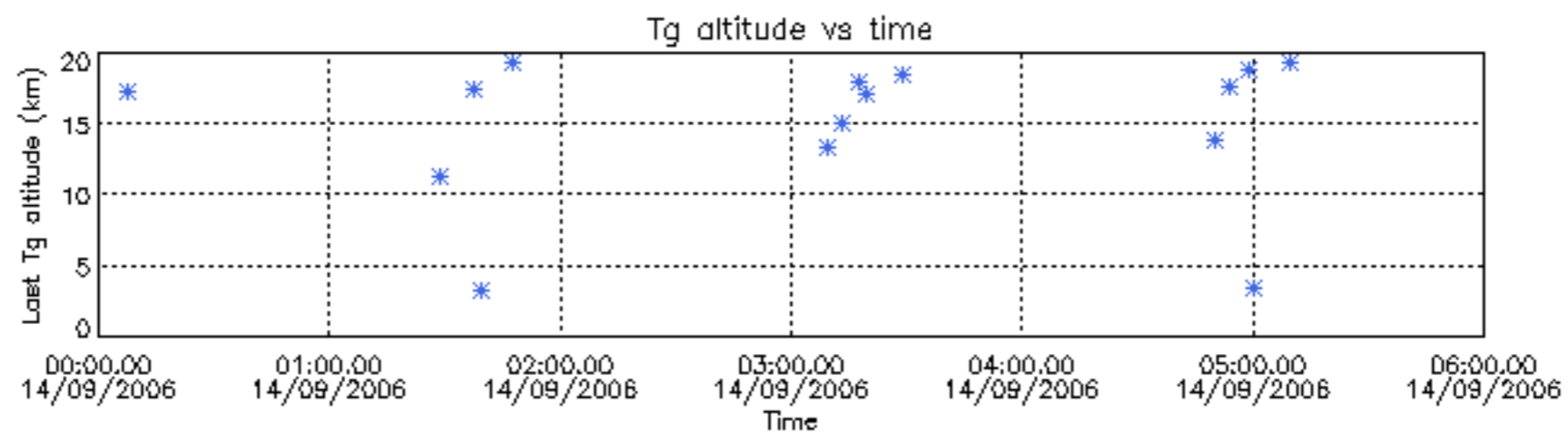
Percentage of star falling outside central band per profile



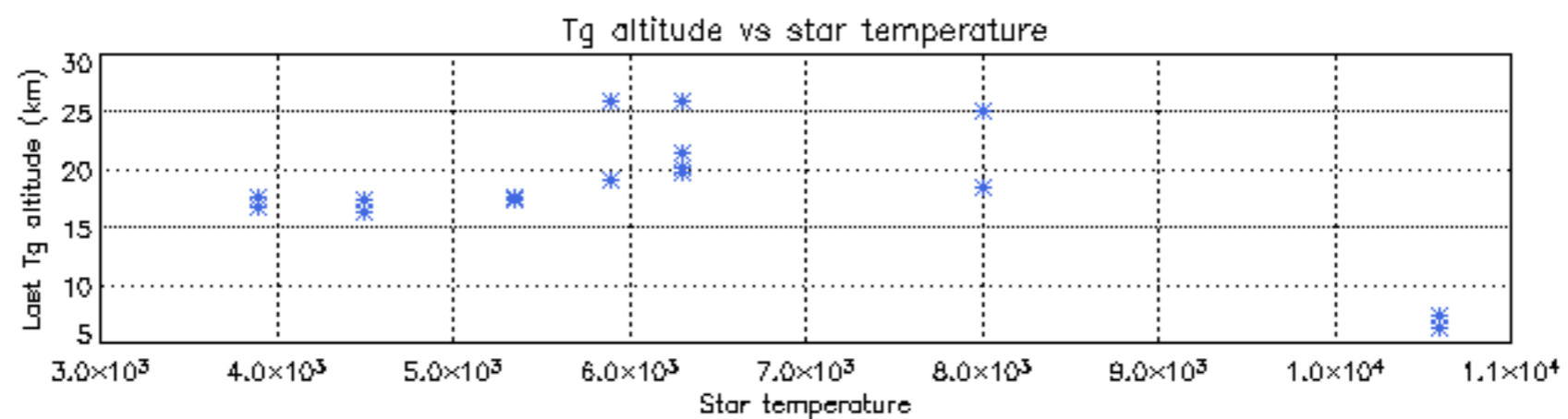
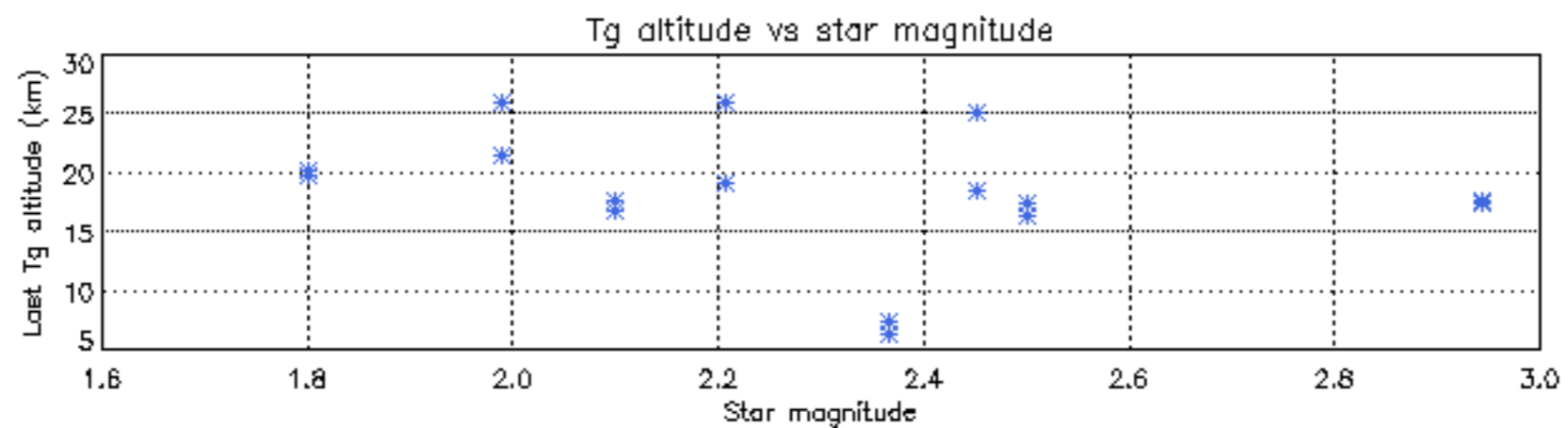
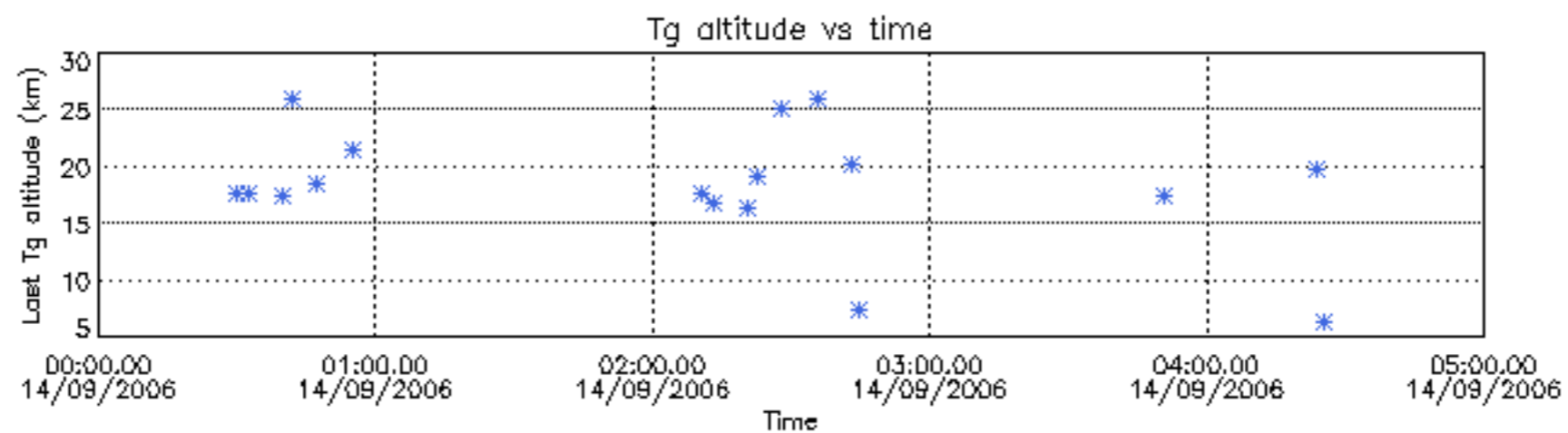
Percentage of saturation errors per profile

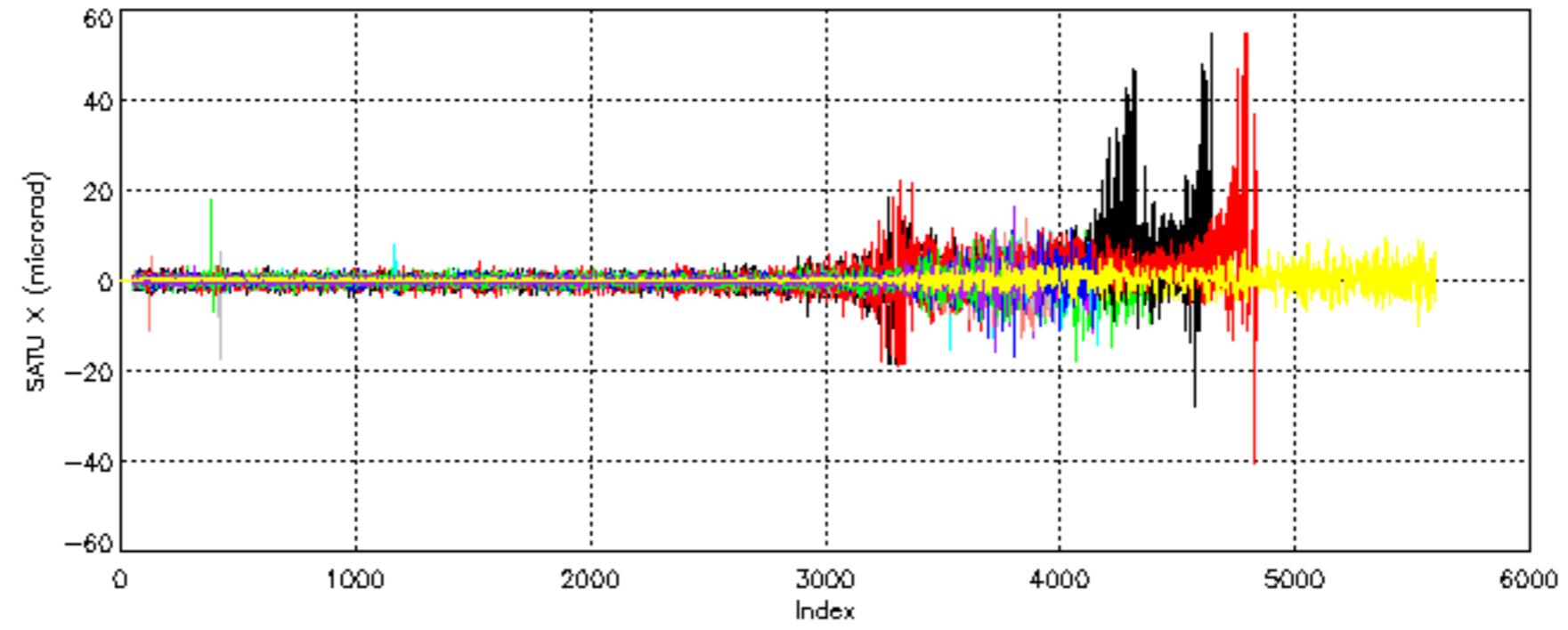


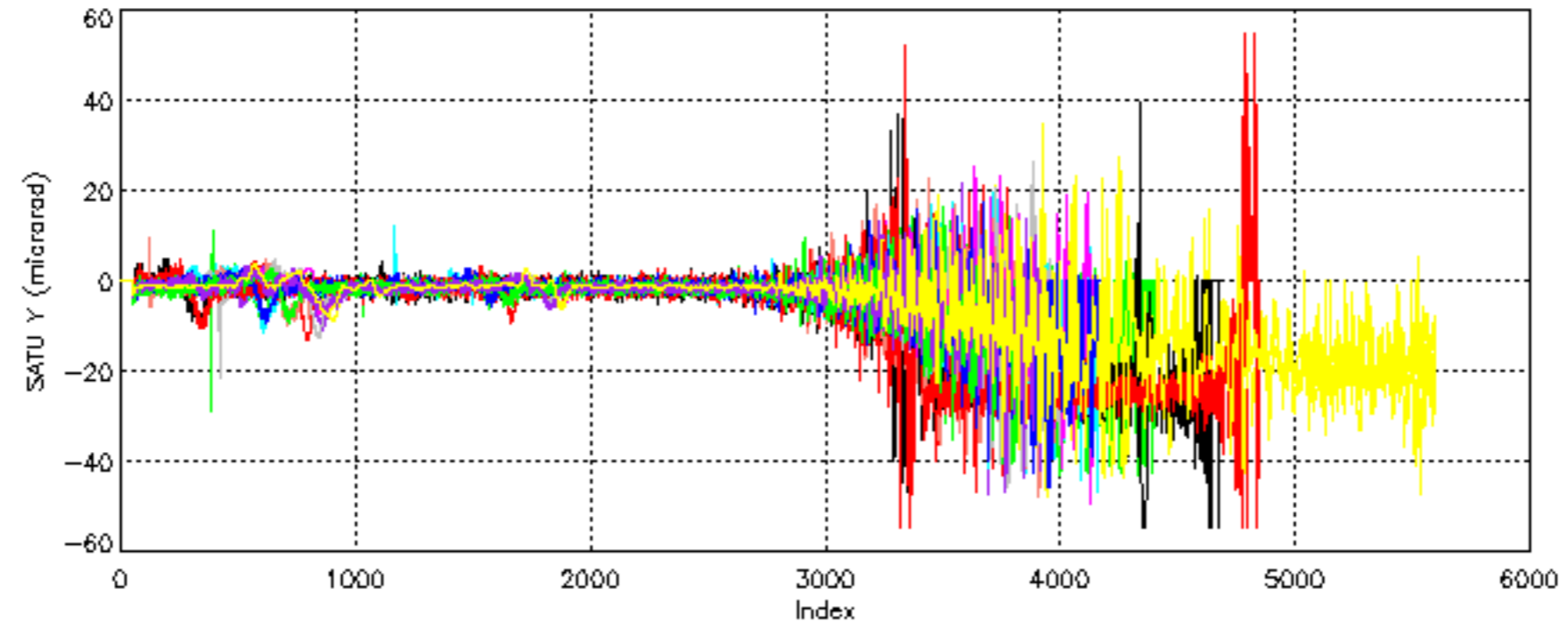
Tangent altitude at which the star is lost

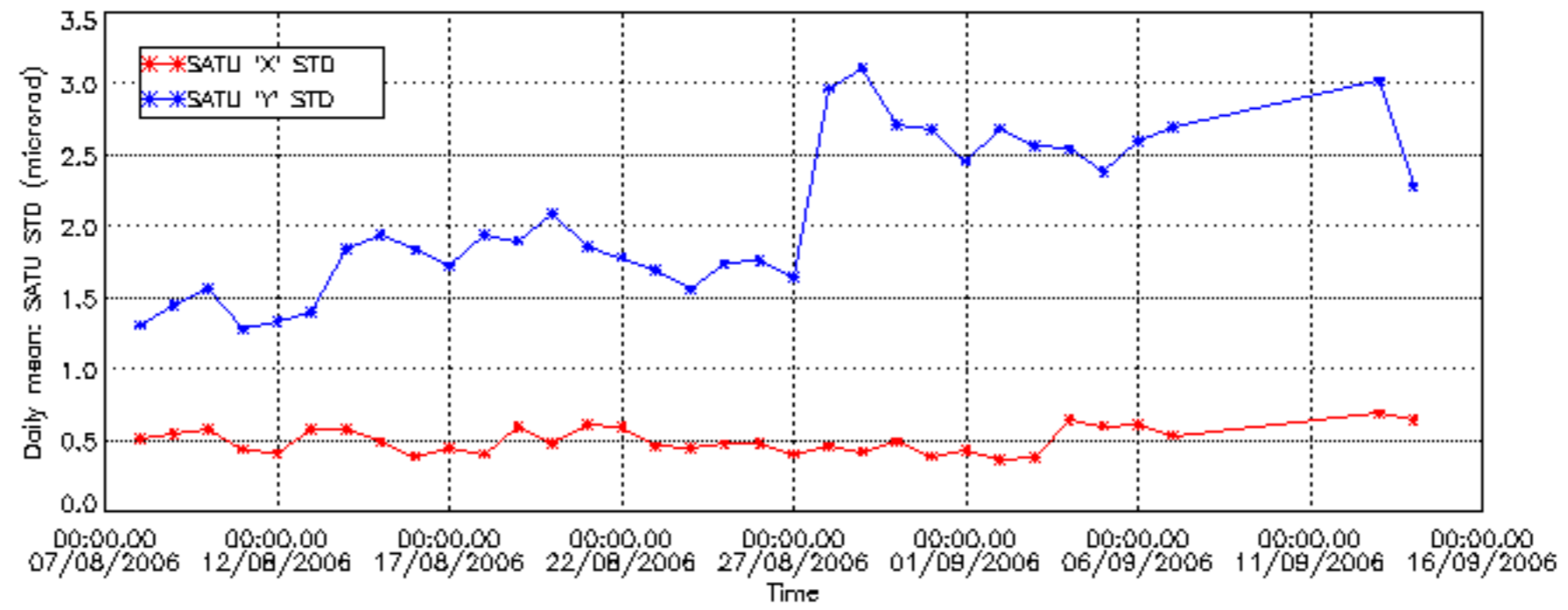


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20060901_013538_000041292050_00446_23546_0595.N1

1; -663.4; 01-SEP-2006 01:35:38; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;23546
 2; -497.5; 01-SEP-2006 01:38:24; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;23546
 3; -402.4; 01-SEP-2006 01:39:59; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;23546
 4; -278.6; 01-SEP-2006 01:42:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23546
 5; -92.4; 01-SEP-2006 01:45:09; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;23546
 6; 526.4; 01-SEP-2006 01:55:28; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23547
 7; 603.1; 01-SEP-2006 01:56:44; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;23547
 8; 1084.0; 01-SEP-2006 02:04:45; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;23547
 9; 1328.9; 01-SEP-2006 02:08:50; Dark ; 50.5; 18; 24Alp PsA ; 1.17; 9700;occ; 101; 0;23547
 10; 1619.0; 01-SEP-2006 02:13:40; Dark ; 49.5; 142; 49Del Cap ; 2.85; 8900;occ; 99; 0;23547
 11; 1807.1; 01-SEP-2006 02:16:48; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23547
 12; 1895.4; 01-SEP-2006 02:18:17; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;23547
 13; 2075.6; 01-SEP-2006 02:21:17; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;23547
 14; 2487.4; 01-SEP-2006 02:28:09; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;23547
 15; 2600.2; 01-SEP-2006 02:30:01; Bright; 35.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 70; 0;23547
 16; 2678.1; 01-SEP-2006 02:31:19; Bright; 34.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 69; 0;23547
 17; 2975.7; 01-SEP-2006 02:36:17; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;23547
 18; 3434.5; 01-SEP-2006 02:43:56; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;23547

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20060901_030053_000050522050_00447_23547_0596.N1

1; -1583.2; 01-SEP-2006 03:00:53; Bright; 51.0; 24; 66Alp Gem ; 1.58; 10200;occ; 102; 0;23547
 2; -1121.0; 01-SEP-2006 03:08:36; Dark ; 42.5; 8; 10Alp CMi ; 0.40; 6500;occ; 85; 0;23547
 3; -662.3; 01-SEP-2006 03:16:14; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;23547
 4; -496.7; 01-SEP-2006 03:19:00; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;23547
 5; -401.6; 01-SEP-2006 03:20:35; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;23547
 6; -277.9; 01-SEP-2006 03:22:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23547
 7; -91.4; 01-SEP-2006 03:25:45; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;23547
 8; 527.5; 01-SEP-2006 03:36:04; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23548
 9; 604.2; 01-SEP-2006 03:37:21; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;23548
 10; 1084.9; 01-SEP-2006 03:45:22; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;23548
 11; 1329.7; 01-SEP-2006 03:49:26; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;23548
 12; 1619.6; 01-SEP-2006 03:54:16; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;23548
 13; 1807.8; 01-SEP-2006 03:57:24; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23548
 14; 1896.0; 01-SEP-2006 03:58:53; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;23548
 15; 2075.9; 01-SEP-2006 04:01:53; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;23548
 16; 2488.1; 01-SEP-2006 04:08:45; Bright; 34.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 69; 0;23548
 17; 2600.9; 01-SEP-2006 04:10:38; Bright; 35.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 71; 0;23548
 18; 2678.7; 01-SEP-2006 04:11:55; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;23548
 19; 2976.1; 01-SEP-2006 04:16:53; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;23548
 20; 3435.1; 01-SEP-2006 04:24:32; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;23548

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20060901_044130_000050522050_00448_23548_0597.N1

1; -1583.0; 01-SEP-2006 04:41:30; Bright; 55.0; 24; 66Alp Gem ; 1.58; 10200;occ; 110; 0;23548
 2; -1120.7; 01-SEP-2006 04:49:12; Dark ; 43.0; 8; 10Alp CMi ; 0.40; 6500;occ; 86; 0;23548
 3; -661.6; 01-SEP-2006 04:56:51; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;23548
 4; -496.1; 01-SEP-2006 04:59:37; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;23548
 5; -401.2; 01-SEP-2006 05:01:11; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;23548
 6; -277.5; 01-SEP-2006 05:03:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23548
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