

# GOMOS Daily Report 17-SEP-2006

## Level 0 and Level 1 products

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### 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

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	19SEP2006 08:38:22
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (17SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (18SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

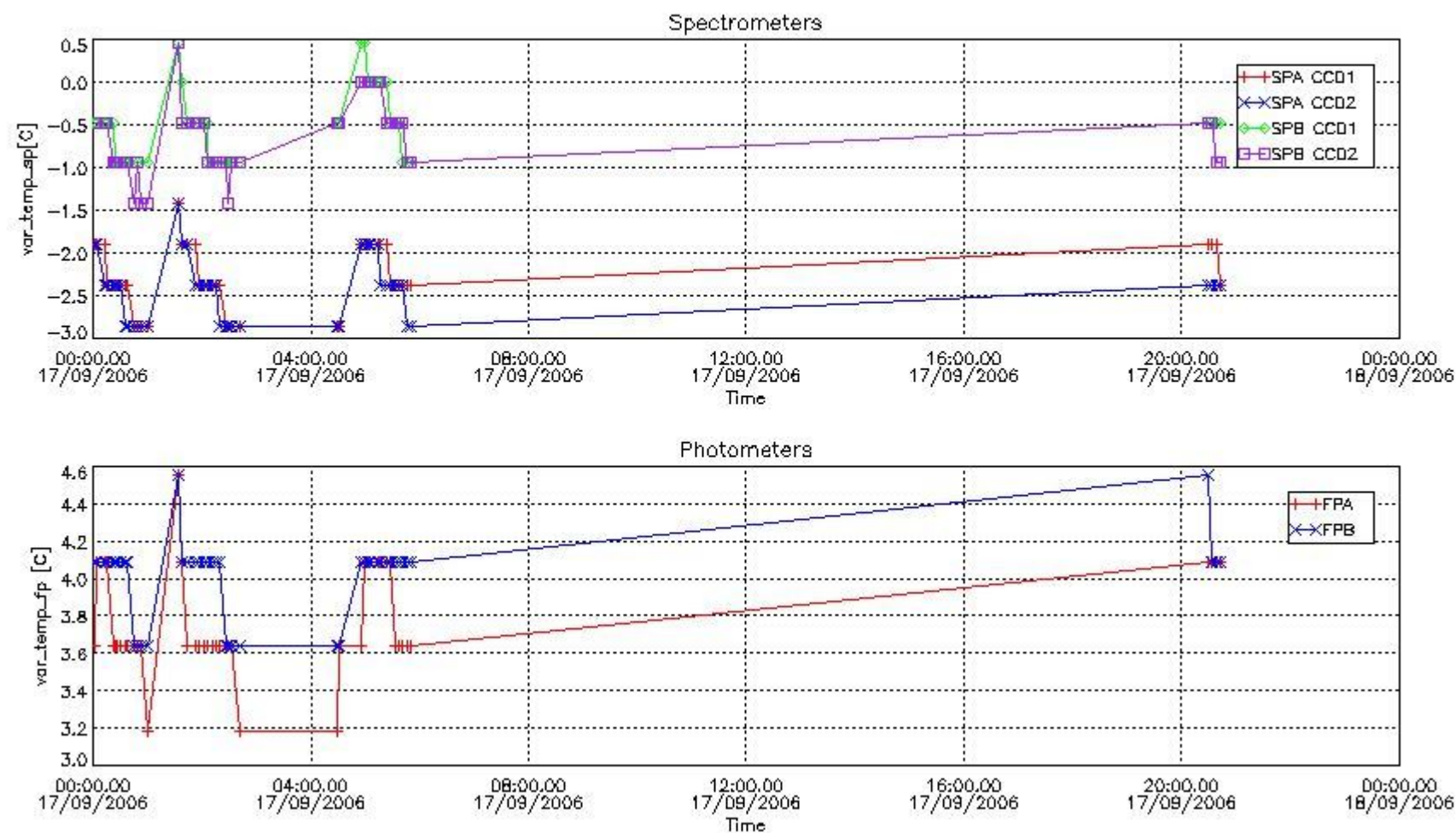
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 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_1PNPDE20060917_000209_000000512051_00173_23774_1308.N1	17-SEP-2006 00:02:09	Dark	50.500	41	Eps Car	1.8600	4100.0	101	23774	No
2	GOM_TRA_1PNPDE20060917_000341_000000572051_00174_23775_1309.N1	17-SEP-2006 00:03:41	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	23775	No
3	GOM_TRA_1PNPDE20060917_001244_000000372051_00174_23775_1310.N1	17-SEP-2006 00:12:44	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23775	No
4	GOM_TRA_1PNPDE20060917_001520_000000432051_00174_23775_1311.N1	17-SEP-2006 00:15:20	Dark	42.500	9	Alp Eri	0.45300	24000.	85	23775	No
5	GOM_TRA_1PNPDE20060917_002201_000000382051_00174_23775_1312.N1	17-SEP-2006 00:22:01	Straylight	38.000	31	Alp Gru	1.7340	15200.	76	23775	No
6	GOM_TRA_1PNPDE20060917_002448_000000362051_00174_23775_1313.N1	17-SEP-2006 00:24:48	Straylight	36.000	172	Gam Gru	3.0030	13100.	72	23775	No
7	GOM_TRA_1PNPDE20060917_002614_000000452051_00174_23775_1314.N1	17-SEP-2006 00:26:14	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	23775	No
8	GOM_TRA_1PNPDE20060917_003045_000000412051_00174_23775_1315.N1	17-SEP-2006 00:30:45	Twilight	41.000	142	49Del Cap	2.8500	8900.0	82	23775	No
9	GOM_TRA_1PNPDE20060917_003458_000000372051_00174_23775_1316.N1	17-SEP-2006 00:34:58	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23775	No
10	GOM_TRA_1PNPDE20060917_003758_000000372051_00174_23775_1317.N1	17-SEP-2006 00:37:58	Bright	36.500	61	8Eps Peg	2.1000	3900.0	73	23775	No
11	GOM_TRA_1PNPDE20060917_004518_000000382051_00174_23775_1318.N1	17-SEP-2006 00:45:18	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	23775	No
12	GOM_TRA_1PNPDE20060917_004823_000000342051_00174_23775_1319.N1	17-SEP-2006 00:48:23	Bright	33.500	19	50Alp Cyg	1.2460	10500.	67	23775	No
13	GOM_TRA_1PNPDE20060917_005243_000000362051_00174_23775_1320.N1	17-SEP-2006 00:52:43	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23775	No
14	GOM_TRA_1PNPDE20060917_010022_000000332051_00174_23775_1321.N1	17-SEP-2006 01:00:22	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	23775	No
15	GOM_TRA_1PNPDE20060917_013406_000000442051_00174_23775_1307.N1	17-SEP-2006 01:34:06	Dark	43.500	132	15Rho Pup	2.8030	6900.0	87	23775	No
16	GOM_TRA_1PNPDE20060917_013756_000000432051_00174_23775_1308.N1	17-SEP-2006 01:37:56	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	23775	No
17	GOM_TRA_1PNPDE20060917_014245_000000442051_00174_23775_1309.N1	17-SEP-2006 01:42:45	Dark	43.500	41	Eps Car	1.8600	4100.0	87	23775	No
18	GOM_TRA_1PNPDE20060917_014417_000000522051_00175_23776_1310.N1	17-SEP-2006 01:44:17	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	23776	No
19	GOM_TRA_1PNPDE20060917_015320_000000372051_00175_23776_1311.N1	17-SEP-2006 01:53:20	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	23776	No
20	GOM_TRA_1PNPDE20060917_015557_000000412051_00175_23776_1312.N1	17-SEP-2006 01:55:57	Dark	40.500	9	Alp Eri	0.45300	24000.	81	23776	No
21	GOM_TRA_1PNPDE20060917_020237_000000422051_00175_23776_1313.N1	17-SEP-2006 02:02:37	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	23776	No
22	GOM_TRA_1PNPDE20060917_020524_000000382051_00175_23776_1314.N1	17-SEP-2006 02:05:24	Straylight	37.500	172	Gam Gru	3.0030	13100.	75	23776	No
23	GOM_TRA_1PNPDE20060917_020650_000000462051_00175_23776_1315.N1	17-SEP-2006 02:06:50	Straylight	46.000	18	24Alp PsA	1.1660	9700.0	92	23776	No
24	GOM_TRA_1PNPDE20060917_021121_000000402051_00175_23776_1316.N1	17-SEP-2006 02:11:21	Twilight	39.500	142	49Del Cap	2.8500	8900.0	79	23776	No
25	GOM_TRA_1PNPDE20060917_021533_000000362051_00175_23776_1317.N1	17-SEP-2006 02:15:33	Bright	36.000	162	34Alp Aqr	2.9440	5350.0	72	23776	No
26	GOM_TRA_1PNPDE20060917_021834_000000382051_00175_23776_1318.N1	17-SEP-2006 02:18:34	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23776	No
27	GOM_TRA_1PNPDE20060917_022555_000000382051_00175_23776_1319.N1	17-SEP-2006 02:25:55	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	23776	No
28	GOM_TRA_1PNPDE20060917_022859_000000382051_00175_23776_1320.N1	17-SEP-2006 02:28:59	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	23776	No
29	GOM_TRA_1PNPDE20060917_023319_000000362051_00175_23776_1321.N1	17-SEP-2006 02:33:19	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23776	No
30	GOM_TRA_1PNPDE20060917_024058_000000322051_00175_23776_1322.N1	17-SEP-2006 02:40:58	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	23776	No
31	GOM_TRA_1PNPDE20060917_042857_000000372051_00176_23777_1322.N1	17-SEP-2006 04:28:57	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	23777	No
32	GOM_TRA_1PNPDE20060917_043024_000000342051_00176_23777_1323.N1	17-SEP-2006 04:30:24	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	23777	No
33	GOM_TRA_1PNPDE20060917_045518_000000422051_00176_23777_1324.N1	17-SEP-2006 04:55:18	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	23777	No
34	GOM_TRA_1PNPDE20060917_045908_000000422051_00176_23777_1325.N1	17-SEP-2006 04:59:08	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	23777	No
35	GOM_TRA_1PNPDE20060917_050358_000000432051_00176_23777_1326.N1	17-SEP-2006 05:03:58	Dark	43.000	41	Eps Car	1.8600	4100.0	86	23777	No
36	GOM_TRA_1PNPDE20060917_050530_000000562051_00177_23778_1327.N1	17-SEP-2006 05:05:30	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	23778	No
37	GOM_TRA_1PNPDE20060917_051433_000000372051_00177_23778_1328.N1	17-SEP-2006 05:14:33	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23778	No
38	GOM_TRA_1PNPDE20060917_051710_000000432051_00177_23778_1329.N1	17-SEP-2006 05:17:10	Dark	42.500	9	Alp Eri	0.45300	24000.	85	23778	No
39	GOM_TRA_1PNPDE20060917_052349_000000392051_00177_23778_1330.N1	17-SEP-2006 05:23:49	Straylight	38.500	31	Alp Gru	1.7340	15200.	77	23778	No
40	GOM_TRA_1PNPDE20060917_052636_000000362051_00177_23778_1331.N1	17-SEP-2006 05:26:36	Straylight	36.000	172	Gam Gru	3.0030	13100.	72	23778	No
41	GOM_TRA_1PNPDE20060917_052802_000000392051_00177_23778_1332.N1	17-SEP-2006 05:28:02	Straylight	39.000	18	24Alp PsA	1.1660	9700.0	78	23778	No
42	GOM_TRA_1PNPDE20060917_053233_000000382051_00177_23778_1333.N1	17-SEP-2006 05:32:33	Twilight	38.000	142	49Del Cap	2.8500	8900.0	76	23778	No

43	GOM_TRA_1PNPDE20060917_053646_000000372051_00177_23778_1334.N1	17-SEP-2006 05:36:46	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23778	No
44	GOM_TRA_1PNPDE20060917_053946_000000402051_00177_23778_1335.N1	17-SEP-2006 05:39:46	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	23778	No
45	GOM_TRA_1PNPDE20060917_054707_000000352051_00177_23778_1336.N1	17-SEP-2006 05:47:07	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	23778	No
46	GOM_TRA_1PNPDE20060917_055012_000000372051_00177_23778_1337.N1	17-SEP-2006 05:50:12	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	23778	No
47	GOM_TRA_1PNPDE20060917_202914_000000422051_00186_23787_1323.N1	17-SEP-2006 20:29:14	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	23787	No
48	GOM_TRA_1PNPDE20060917_203328_000000482051_00186_23787_1324.N1	17-SEP-2006 20:33:28	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	23787	No
49	GOM_TRA_1PNPDE20060917_203758_000000422051_00186_23787_1325.N1	17-SEP-2006 20:37:58	Twilight_stray	41.500	142	49Del Cap	2.8500	8900.0	83	23787	No
50	GOM_TRA_1PNPDE20060917_204211_000000372051_00186_23787_1326.N1	17-SEP-2006 20:42:11	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23787	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.

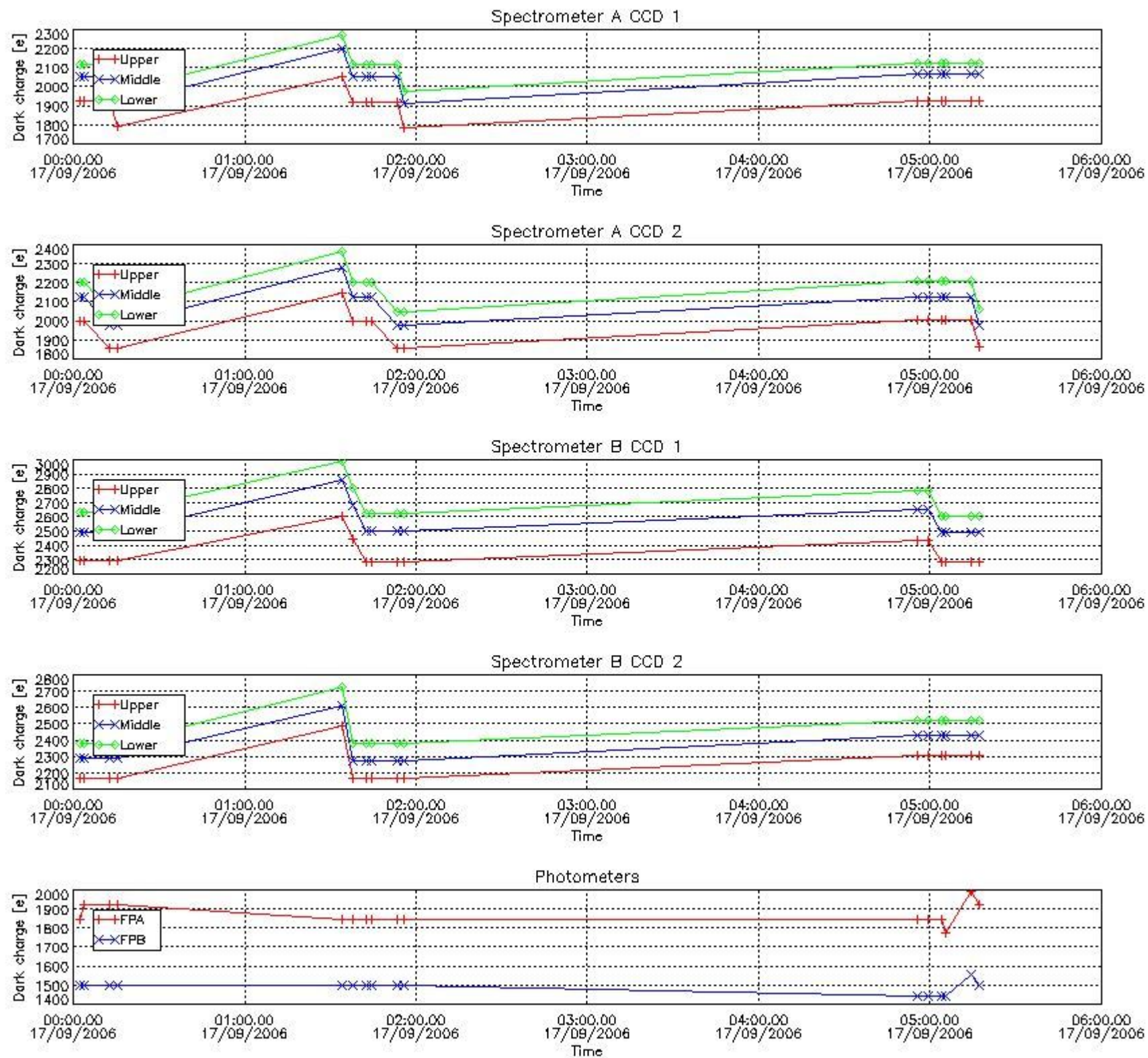
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20060917_202914_000000422051_00186_23787_1323.N1	DC map used
GOM_TRA_1PNPDE20060917_203328_000000482051_00186_23787_1324.N1	DC map used



GOM_TRA_1PNPDE20060917_203758_000000422051_00186_23787_1325.N1	DC map used
GOM_TRA_1PNPDE20060917_204211_000000372051_00186_23787_1326.N1	DC map used

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



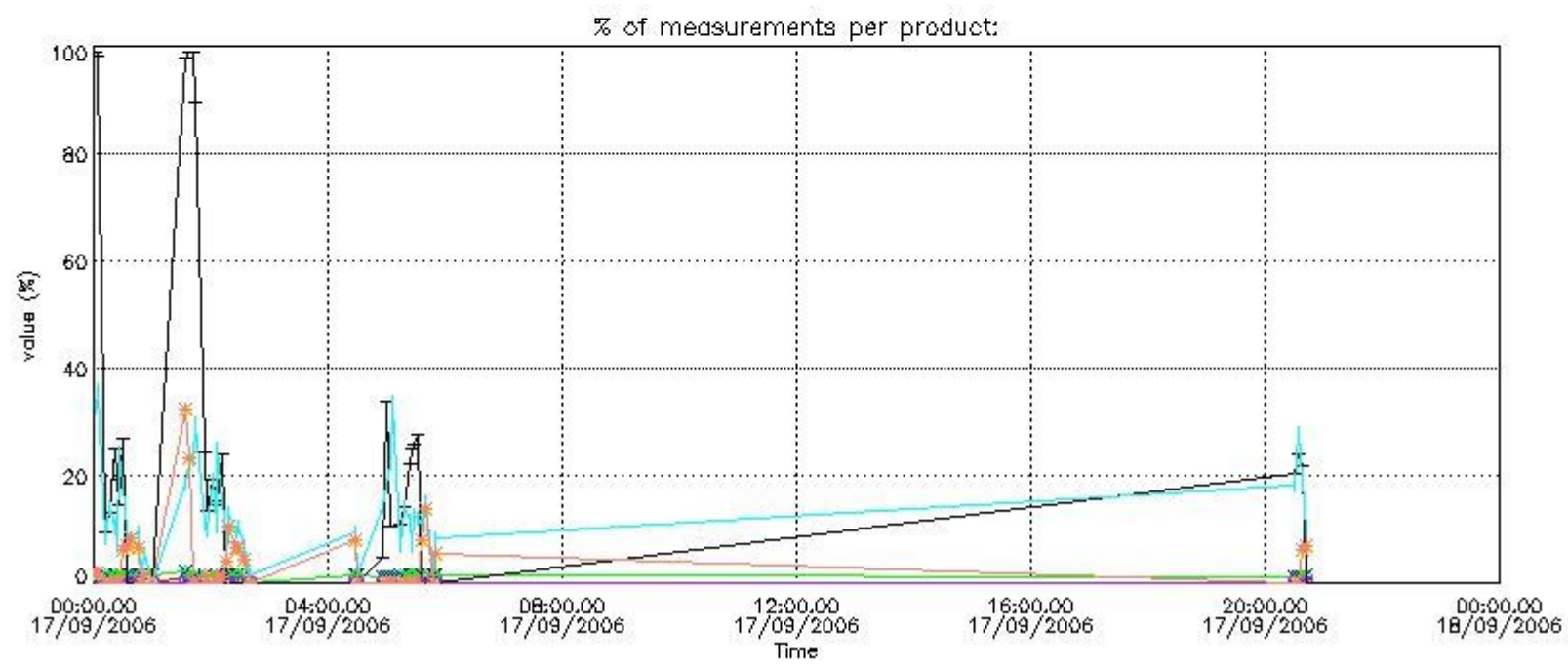
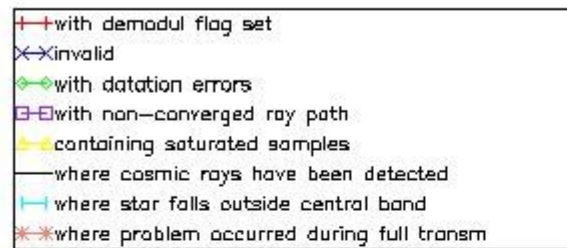
5. Demodulation flag and quality information monitoring

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:

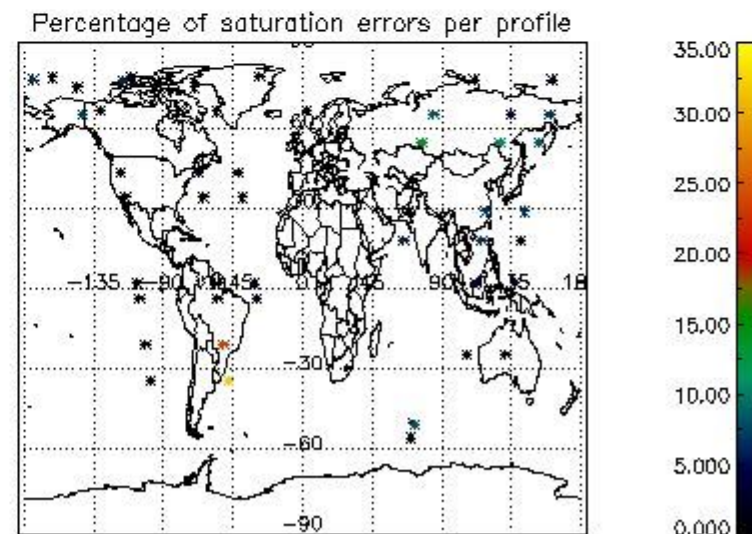
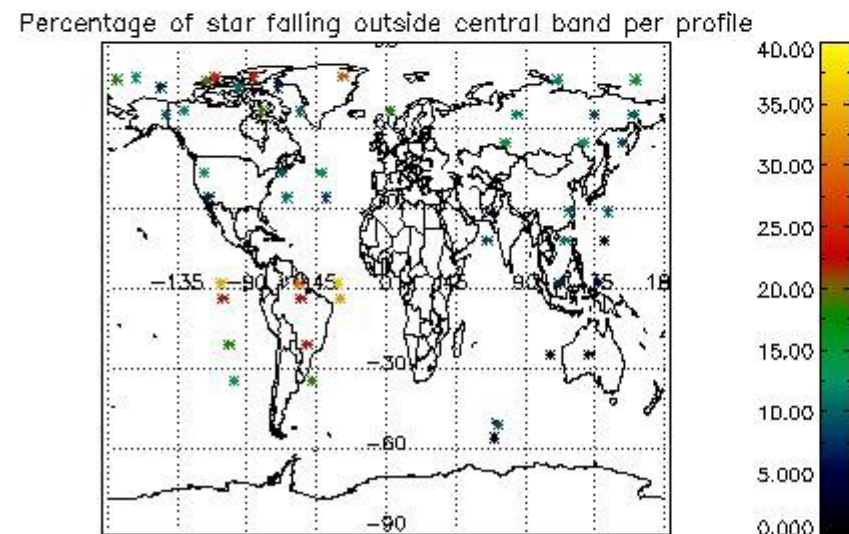
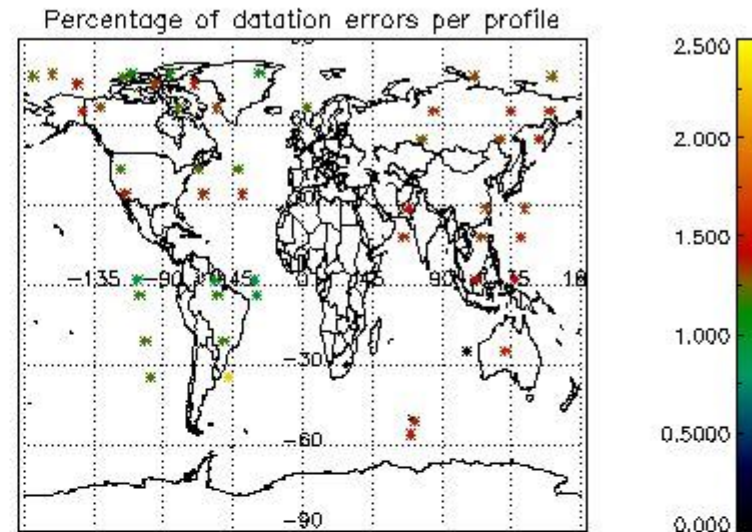
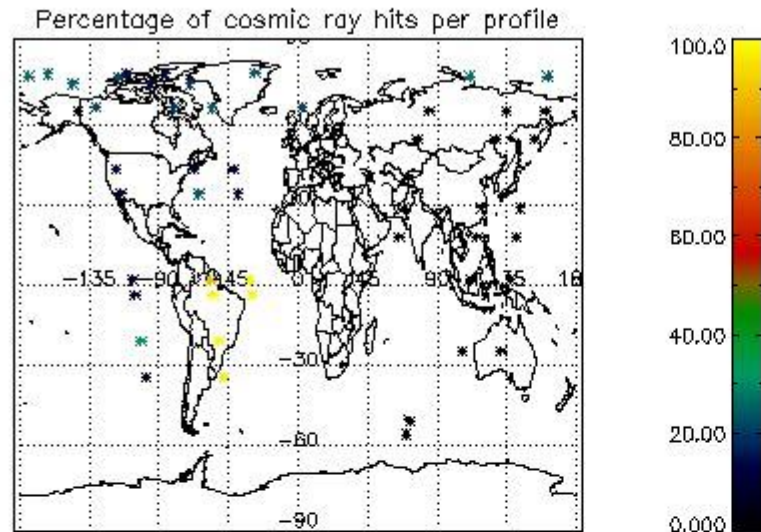
At least one measurement with demodulation flag set:	24.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





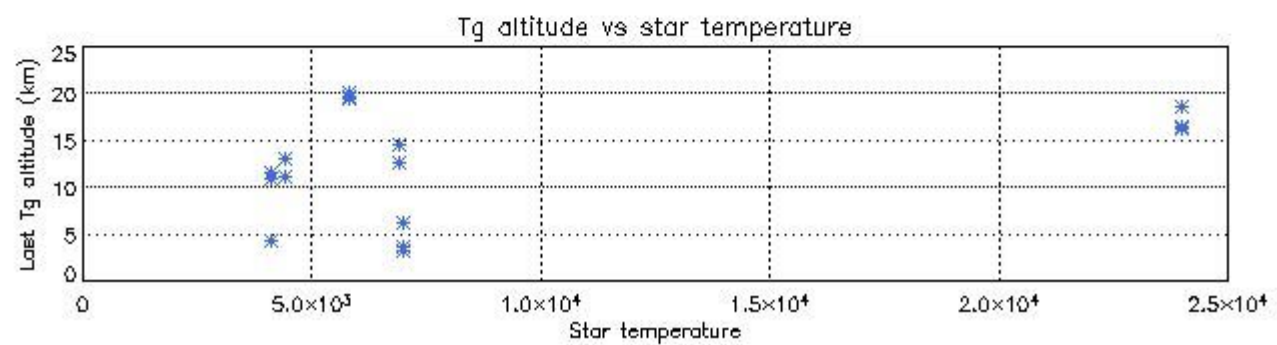
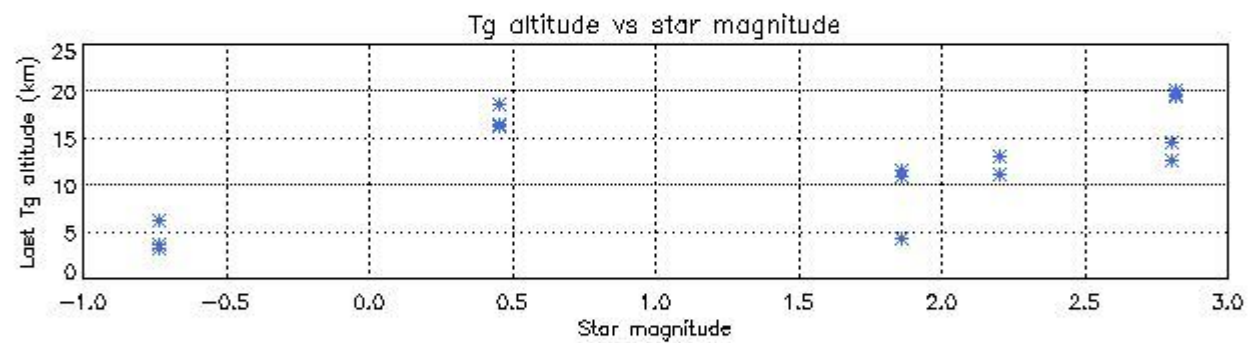
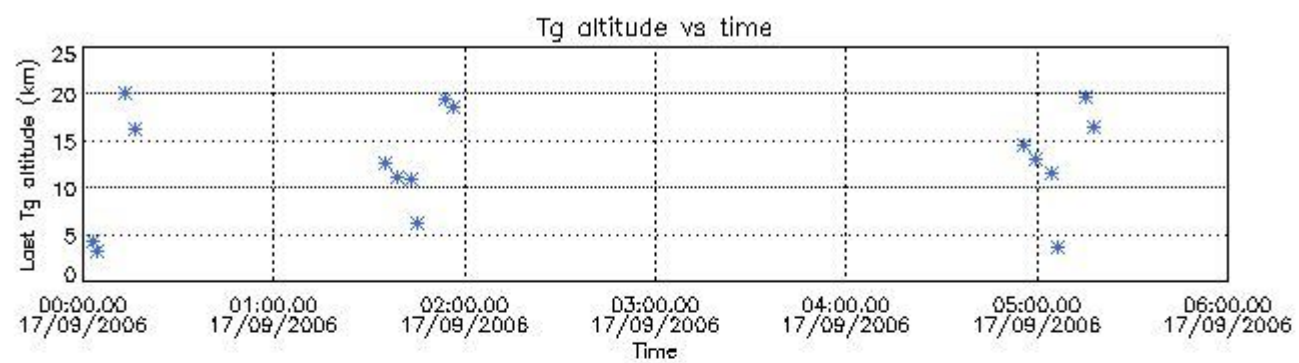
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.593	20.579	NaN
St. deviation:	5.8224	4.2304	NaN
Maximum:	20.143	29.877	NaN
Minimum:	3.1622	14.021	NaN
Number of data:	16.000	19.000	NaN

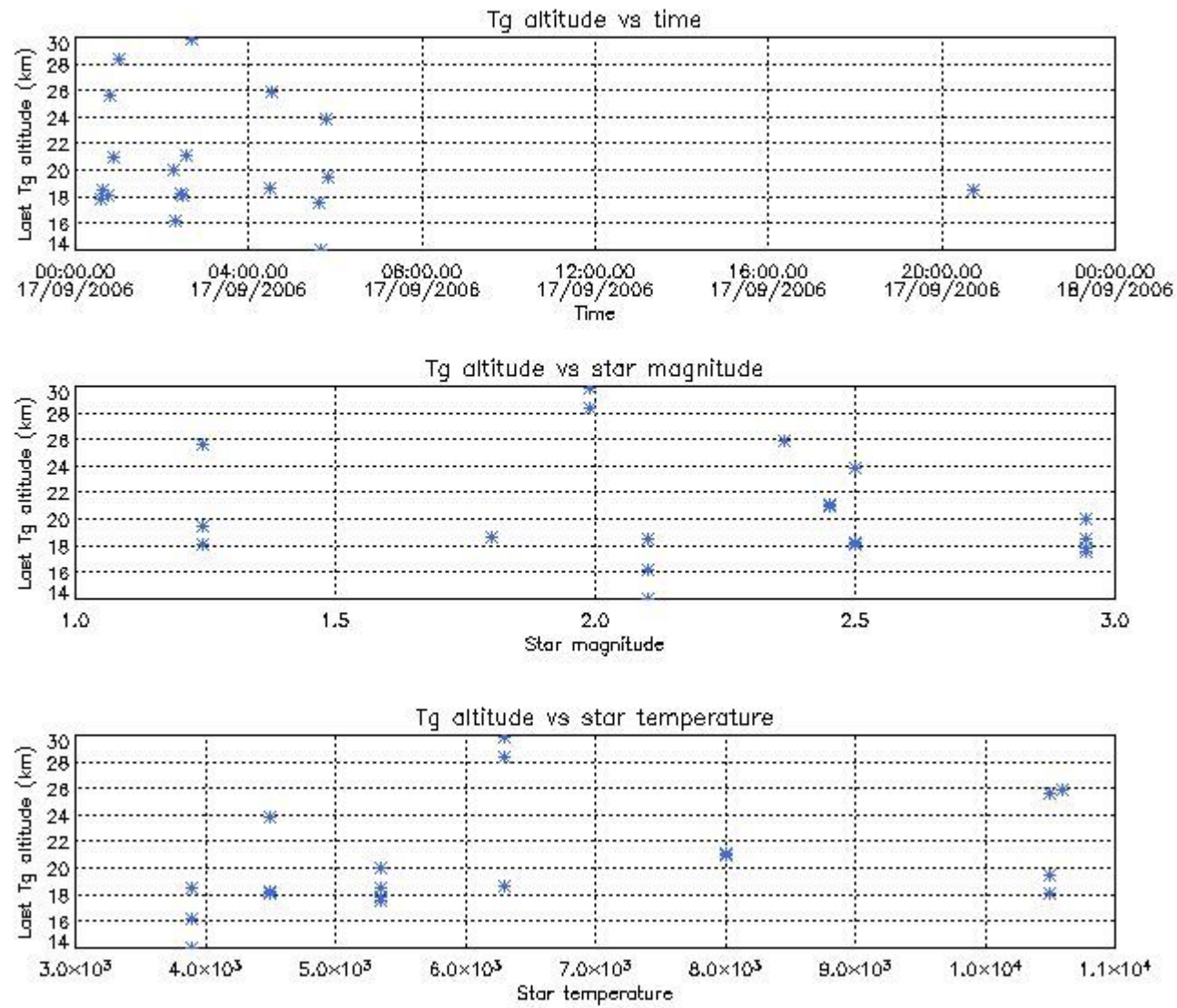
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



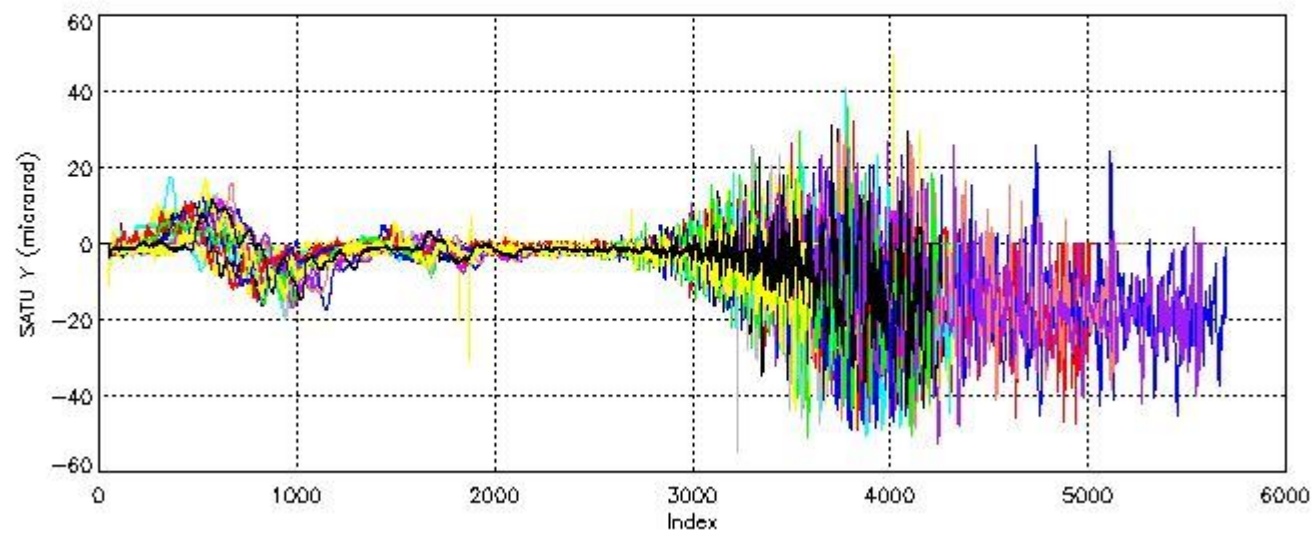
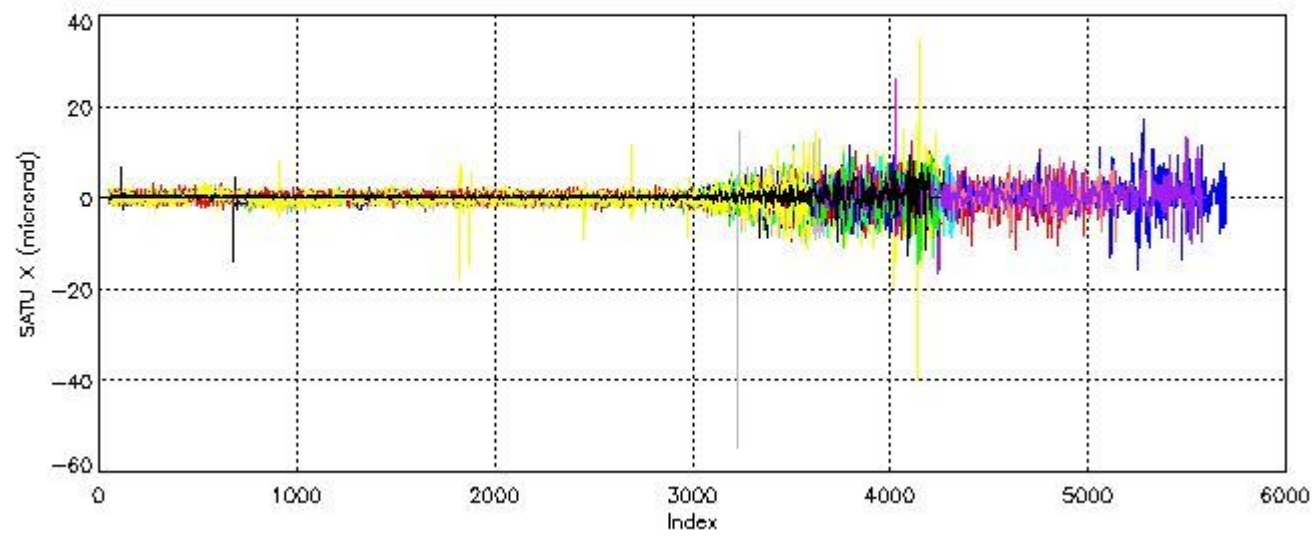
## 7. Star Acquisition and Tracking Unit (SATU)

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.

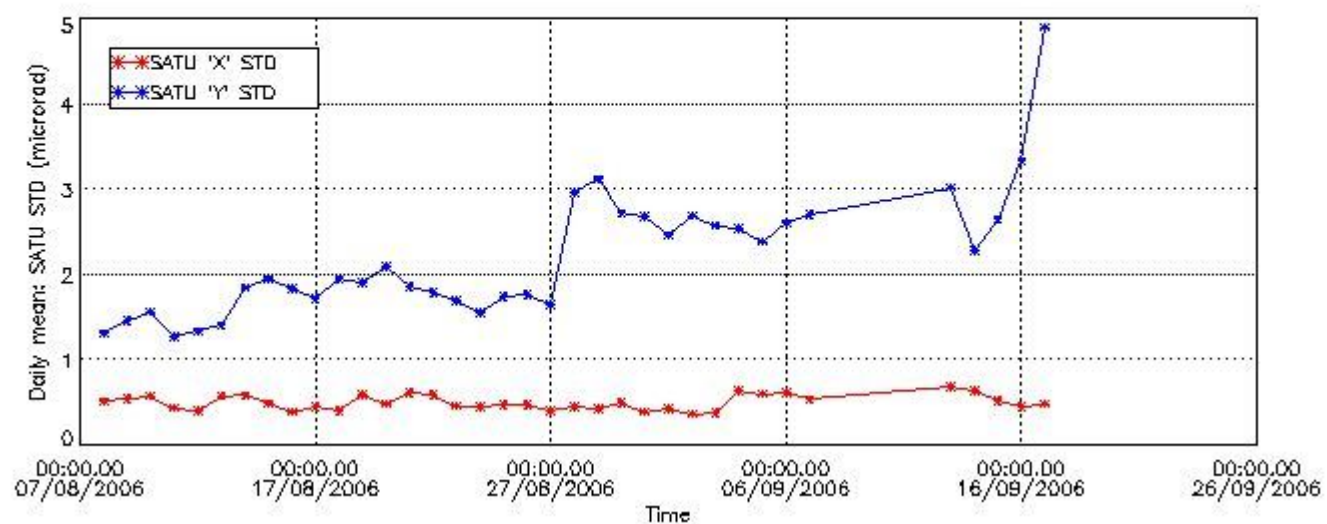
### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.11821	0.20374	0.096456	0.26424
St. deviation:	0.47791	4.8926	0.69586	5.5952
Maximum:	6.5000	17.600	4.2000	16.500
Minimum:	-0.40000	-13.000	-2.8000	-16.100

Number of data:	14300.	14300.	15600.	15600.
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### 7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

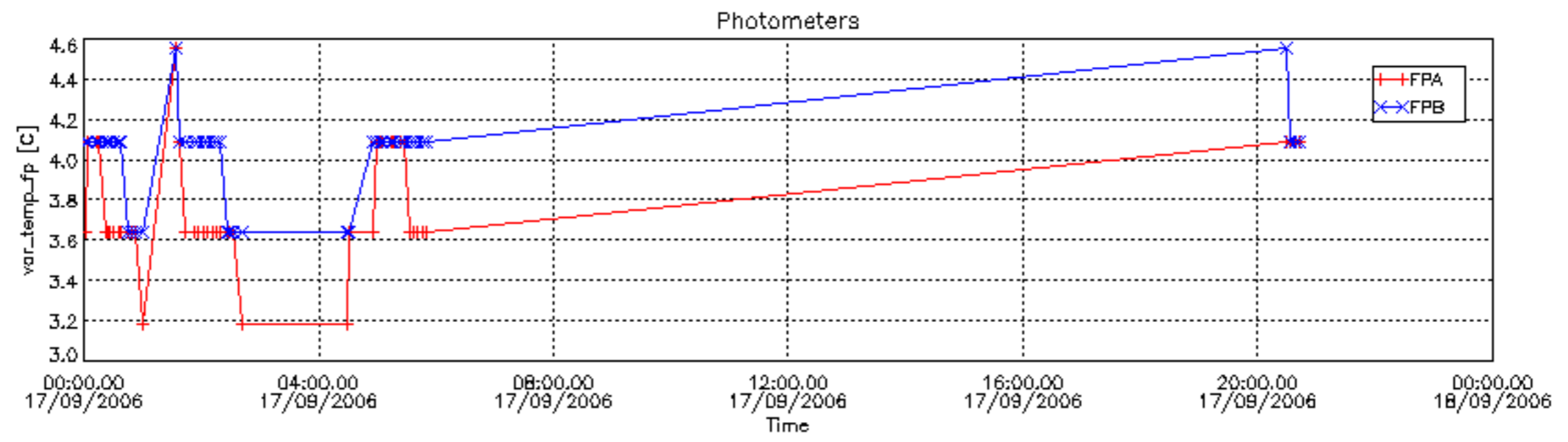
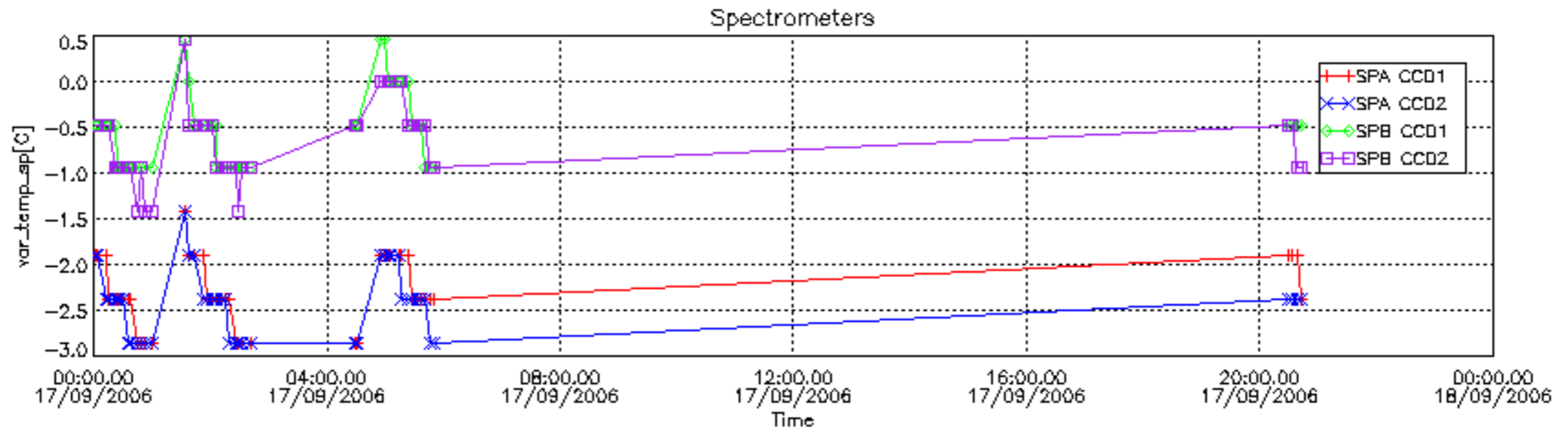
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.



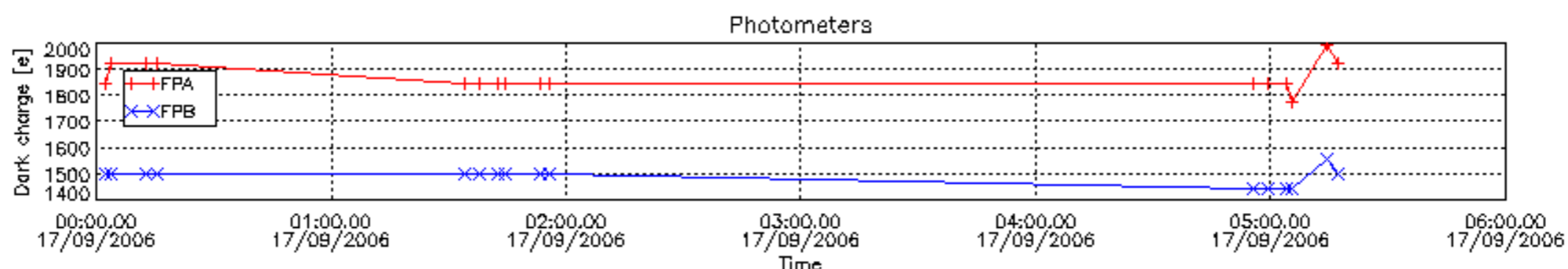
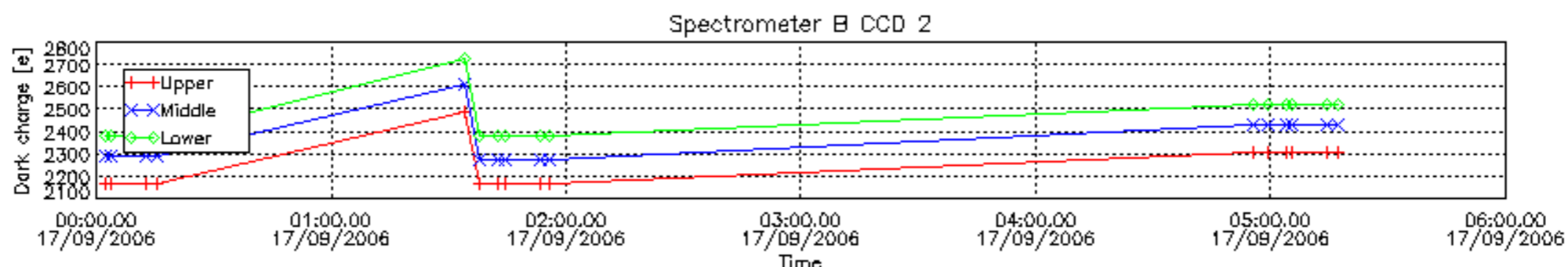
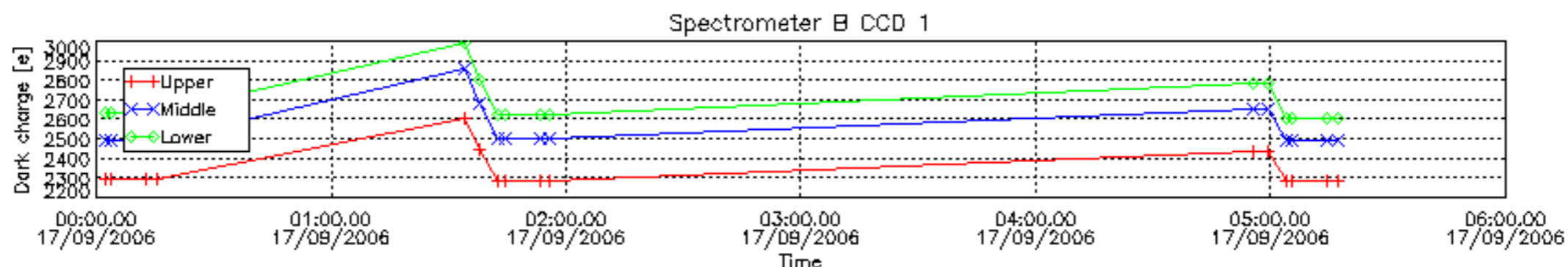
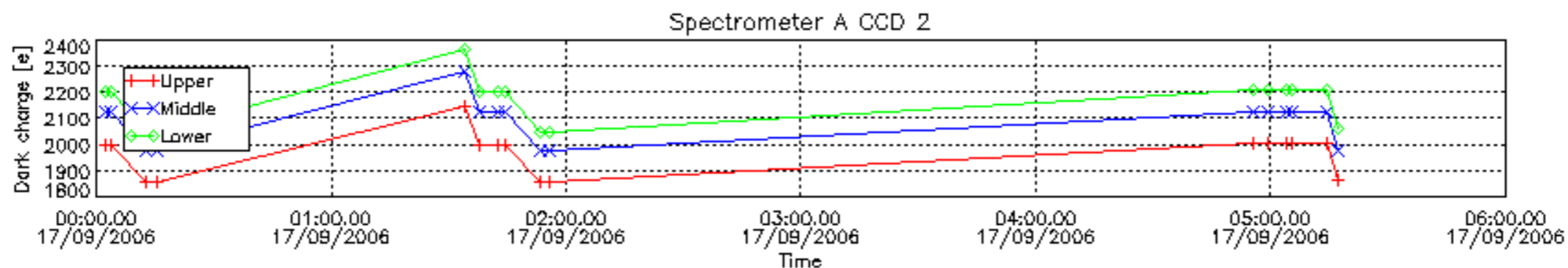
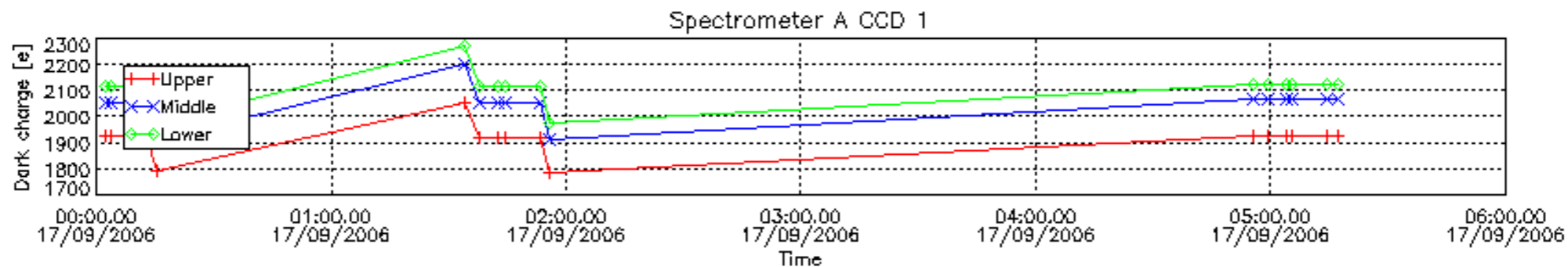
### 8. Auxiliary Data Files used for the production reported in section 2.2

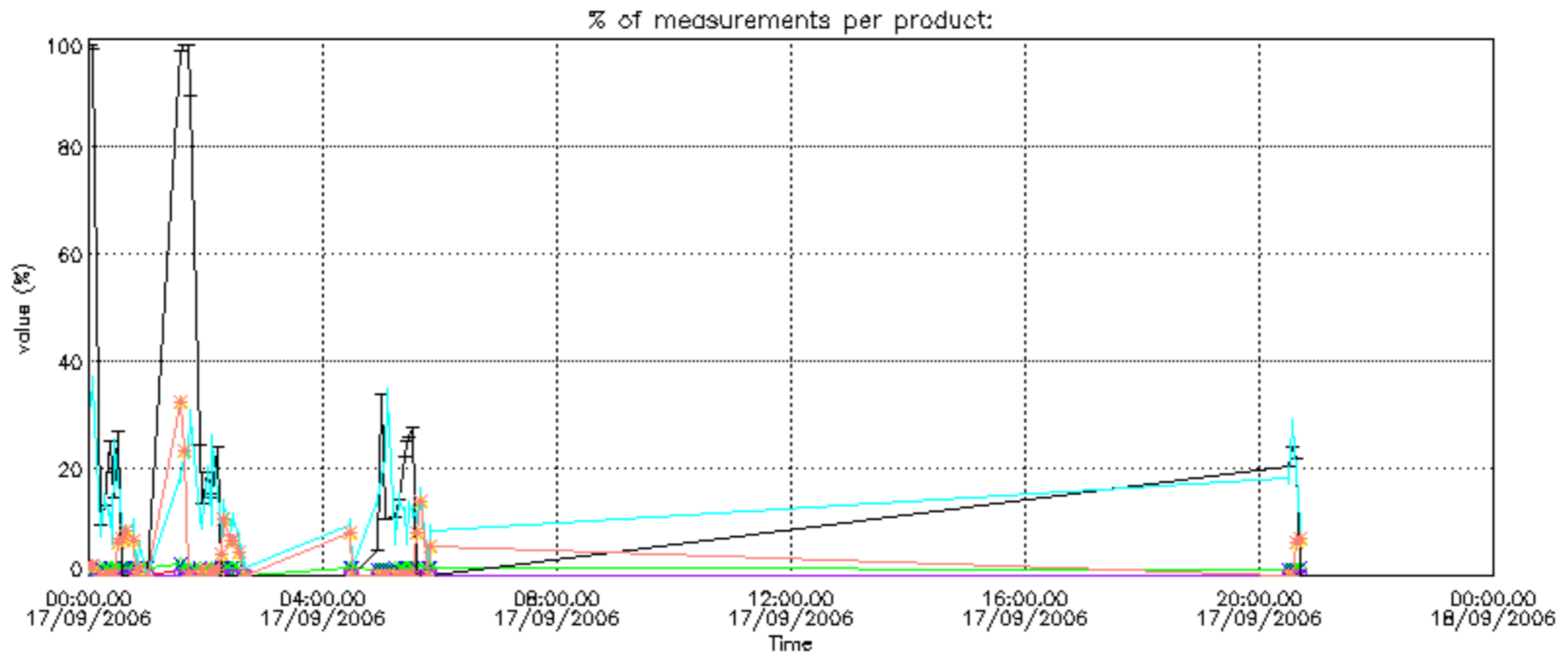
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-SEP-2006 00:02:09
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060904_154109_20060902_000000_20100101_000000	1	17-SEP-2006 00:02:09
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-SEP-2006 00:02:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-SEP-2006 00:02:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-SEP-2006 00:02:09
ECMWF_FILE	AUX_ECF_AXNECM20060916_062528_20060916_210000_20060917_090000	1	17-SEP-2006 00:02:09
ECMWF_FILE	AUX_ECA_AXNECM20060917_060520_20060916_210000_20060917_090000	31	17-SEP-2006 04:28:57
ECMWF_FILE	AUX_ECF_AXNECM20060917_062501_20060917_150000_20060918_030000	47	17-SEP-2006 20:29:14
OPTIONAL_ECMWF_FILE	MISSING	1	17-SEP-2006 00:02:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060916_234850_000054192051_00173_23774_0573.N1	1	17-SEP-2006 00:02:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060917_041949_000057382051_00176_23777_0576.N1	31	17-SEP-2006 04:28:57
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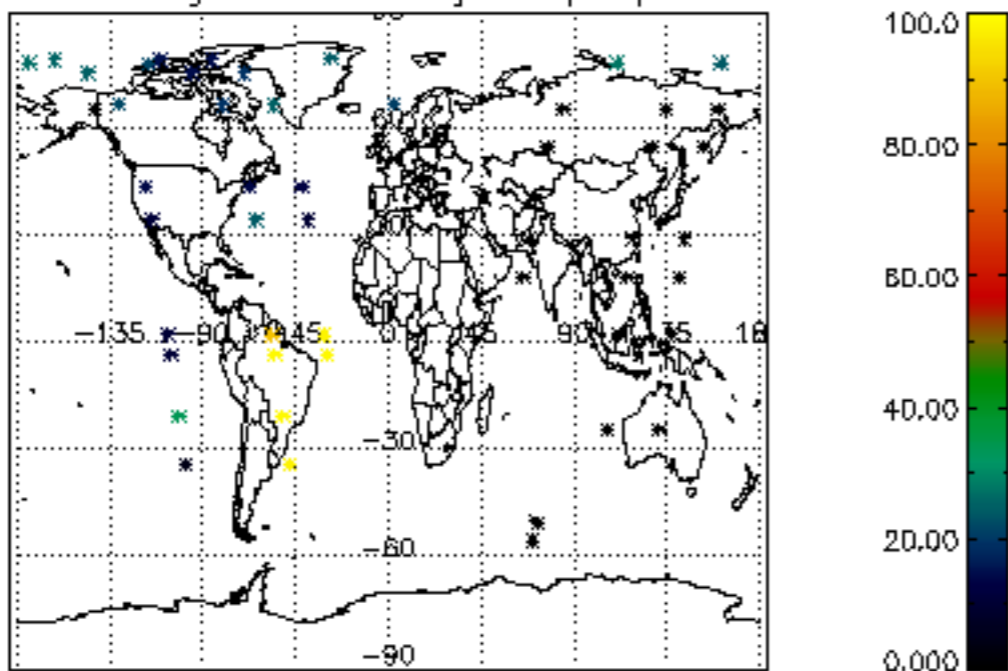




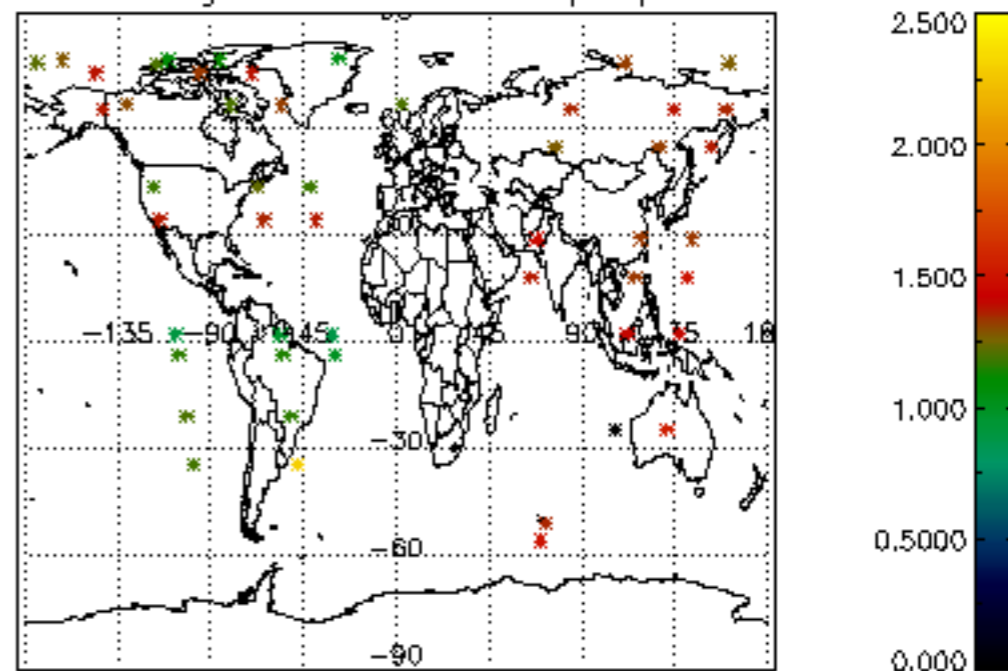




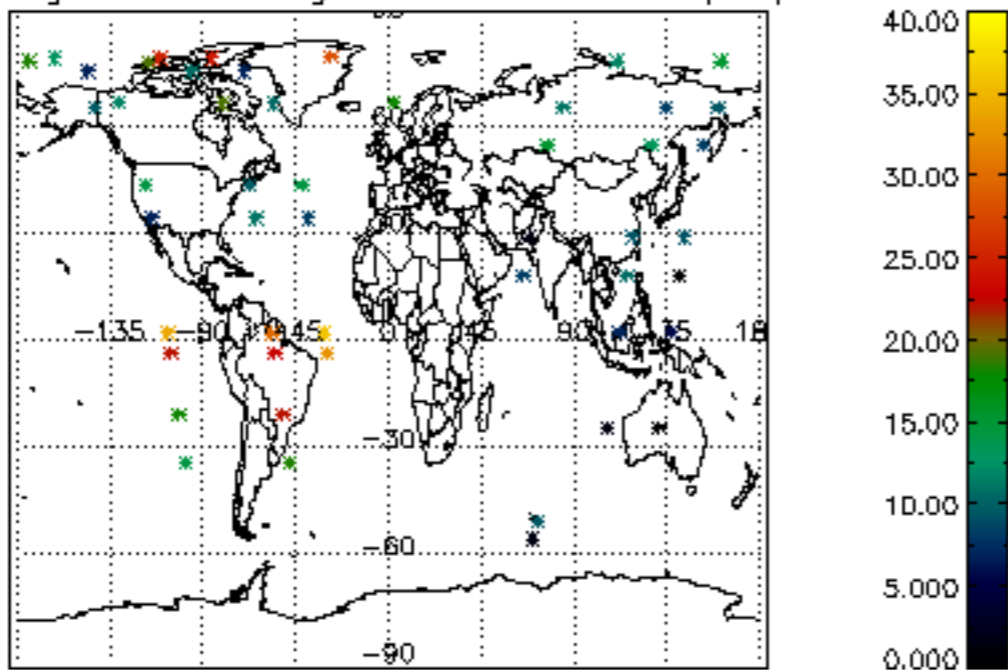
Percentage of cosmic ray hits per profile



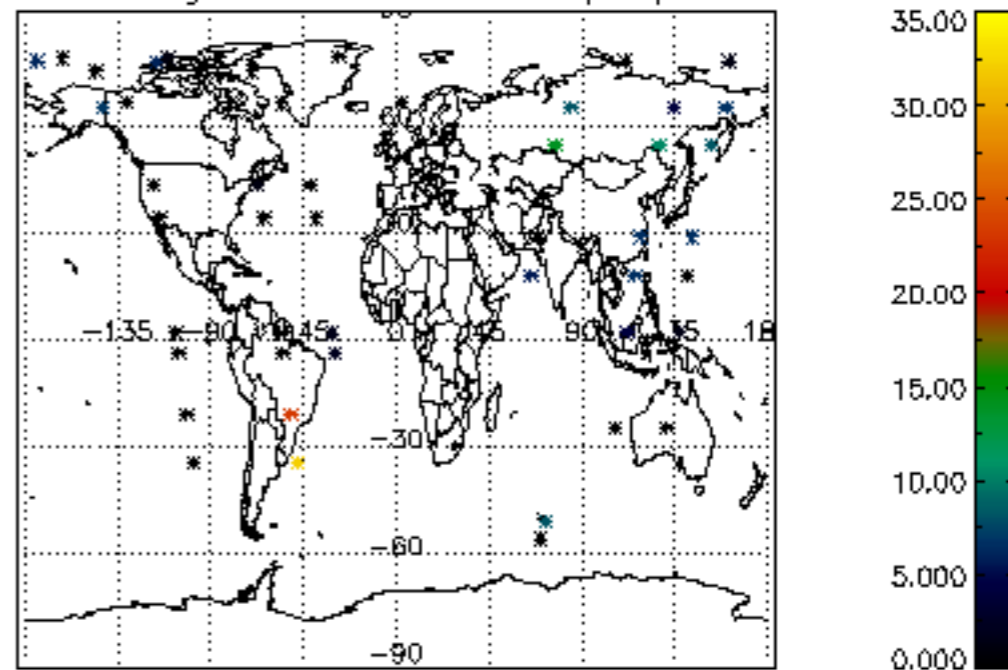
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

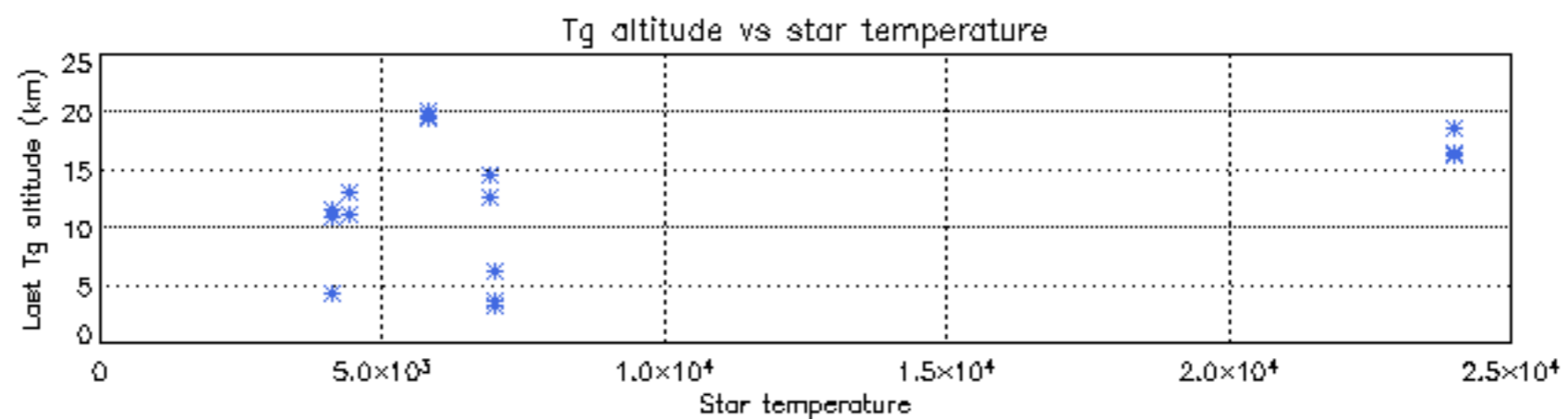
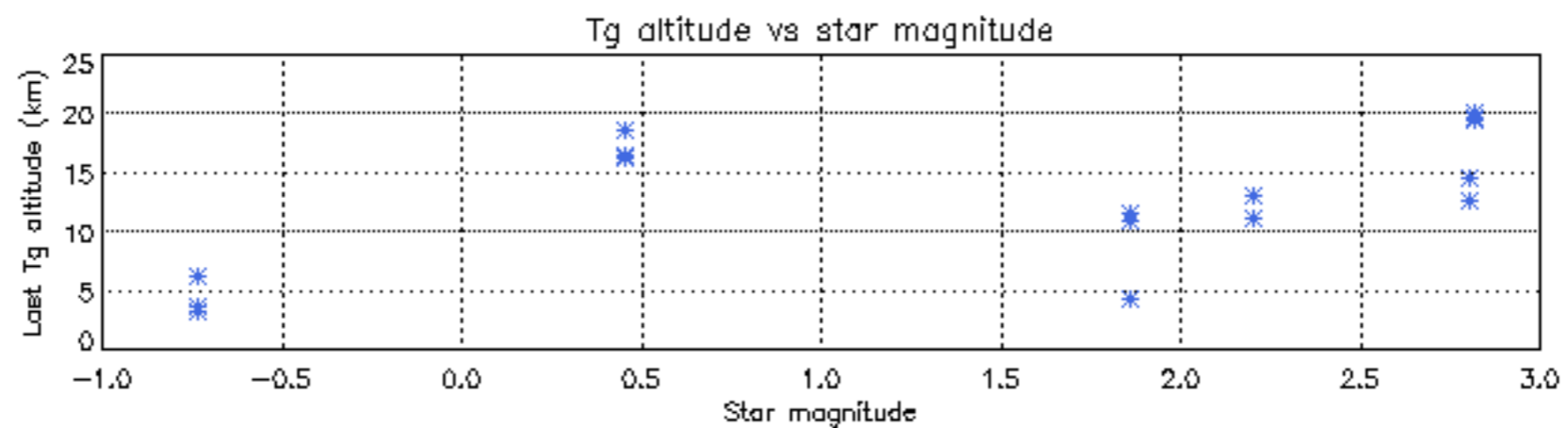
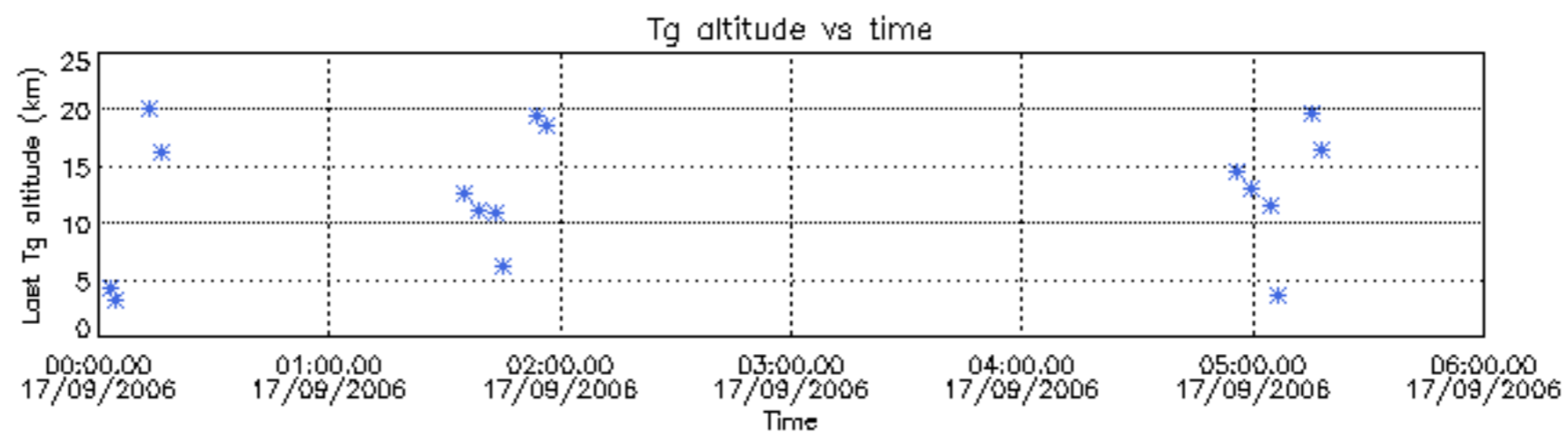


Percentage of saturation errors per profile

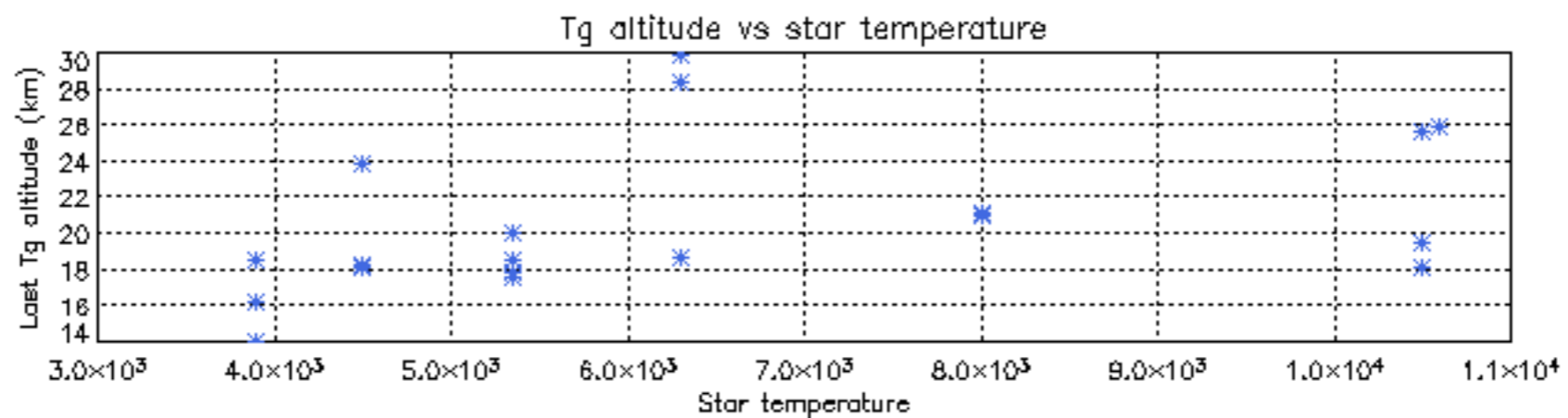
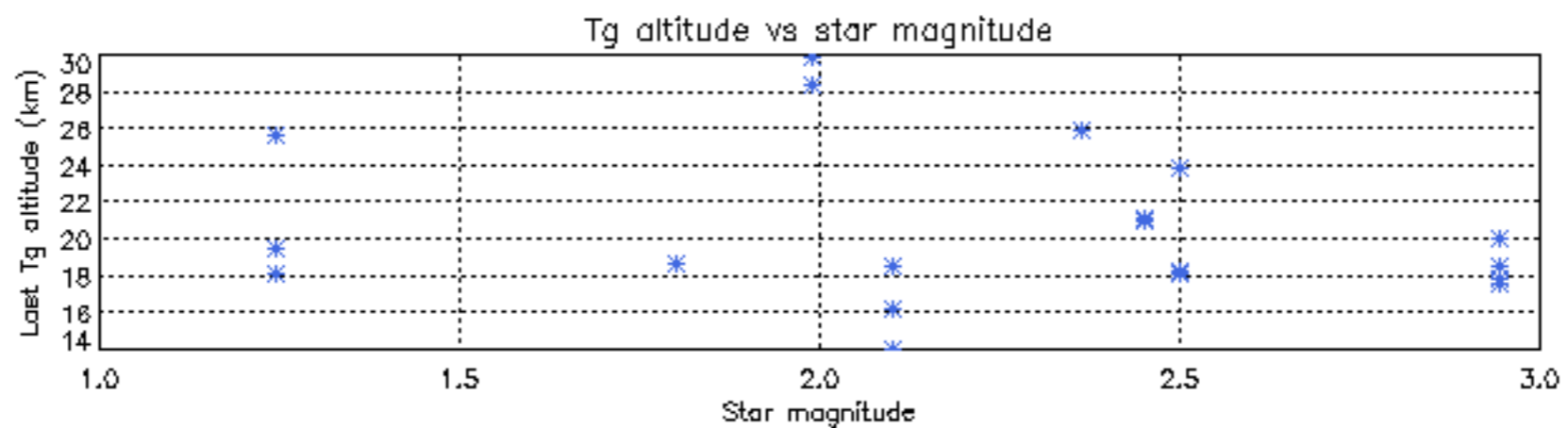
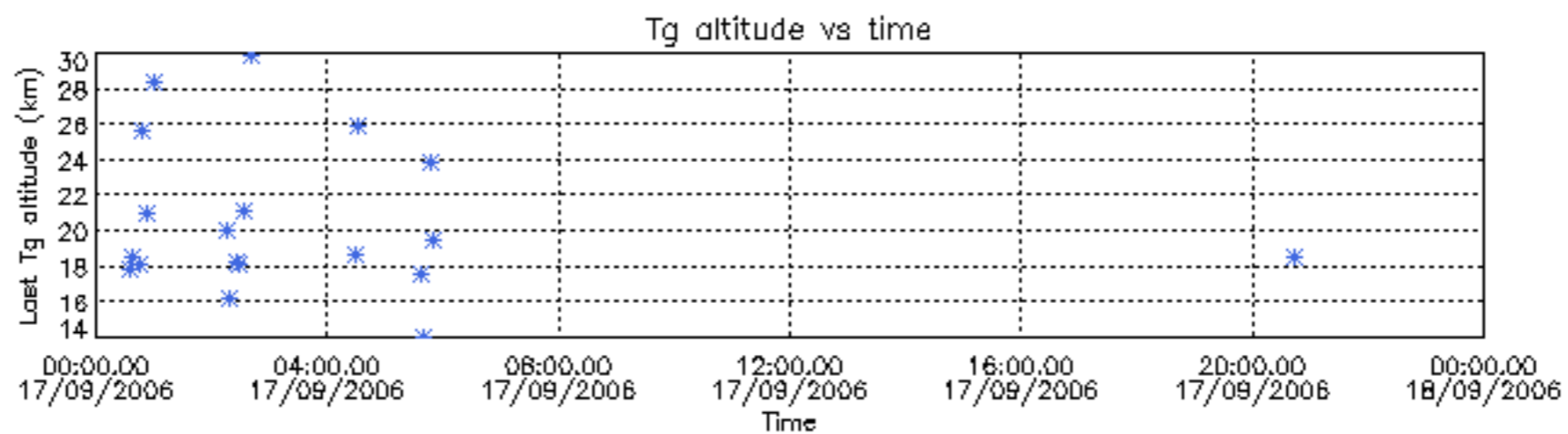


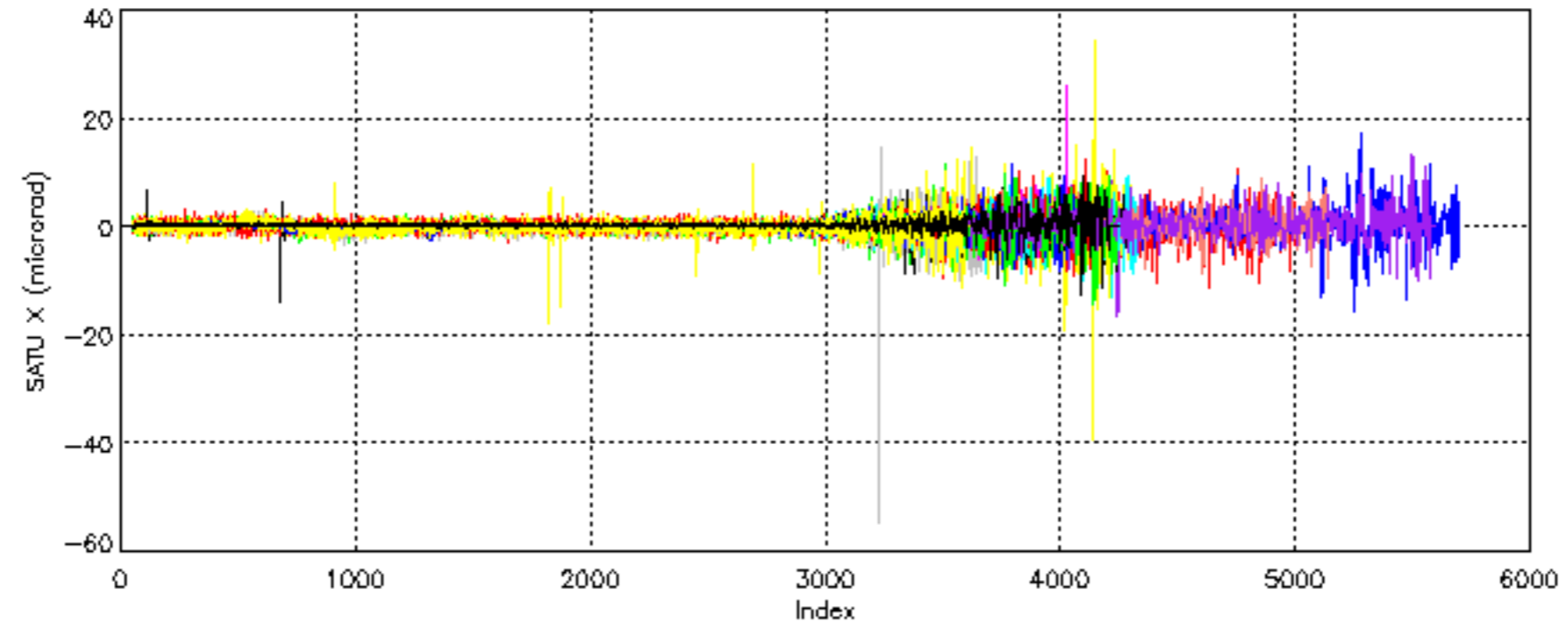


Tangent altitude at which the star is lost

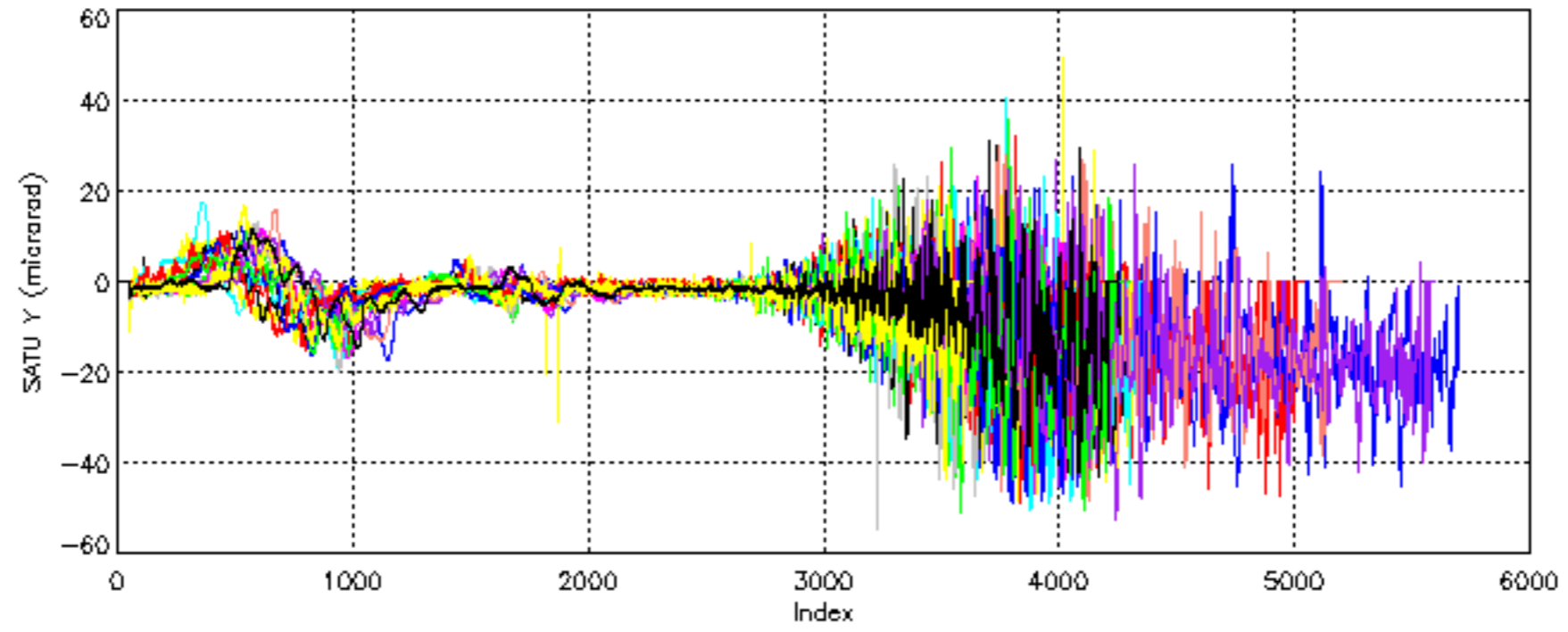


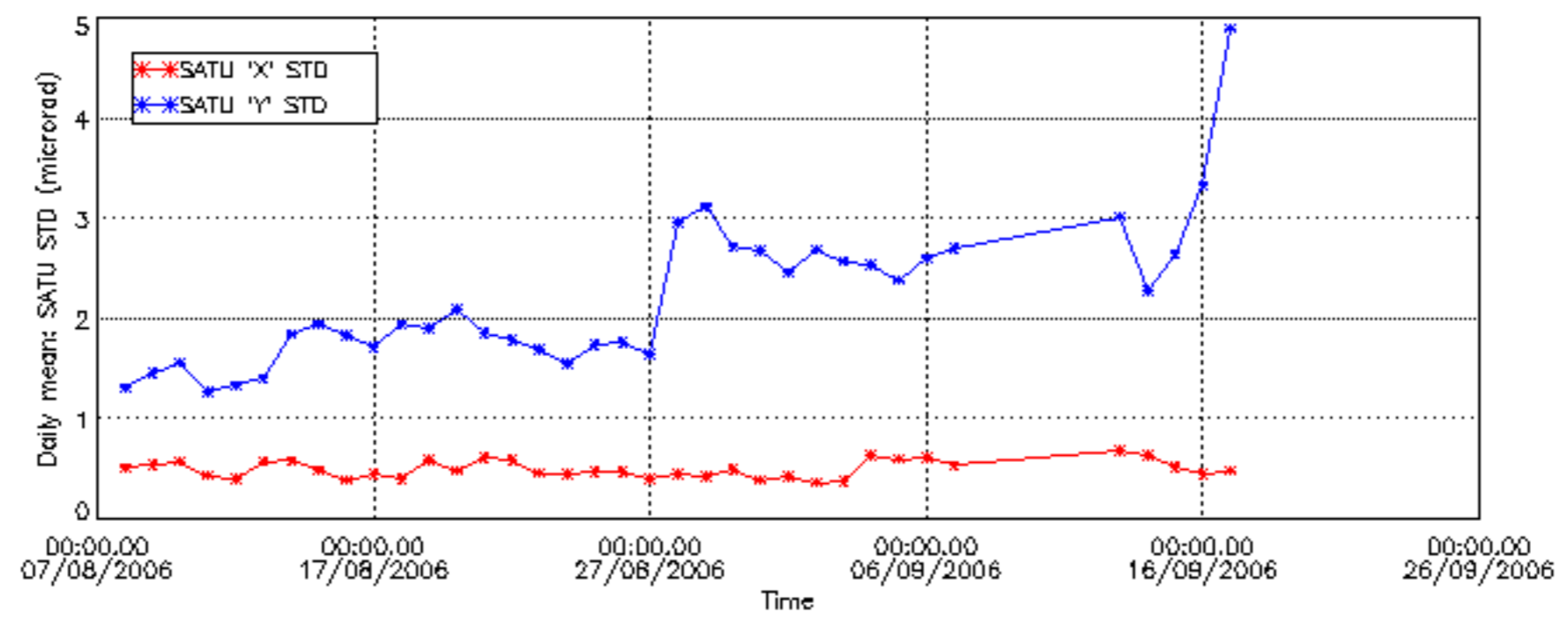
Tangent altitude at which the star is lost











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 4; -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  
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 17; 2975.7; 01-SEP-2006 02:36:17; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;23547  
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 23; 1342.4; 04-SEP-2006 13:58:59; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;23597

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