

# GOMOS Daily Report 21-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	23SEP2006 05:32:09
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (21SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (22SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	42
Nb of prods with errors	2

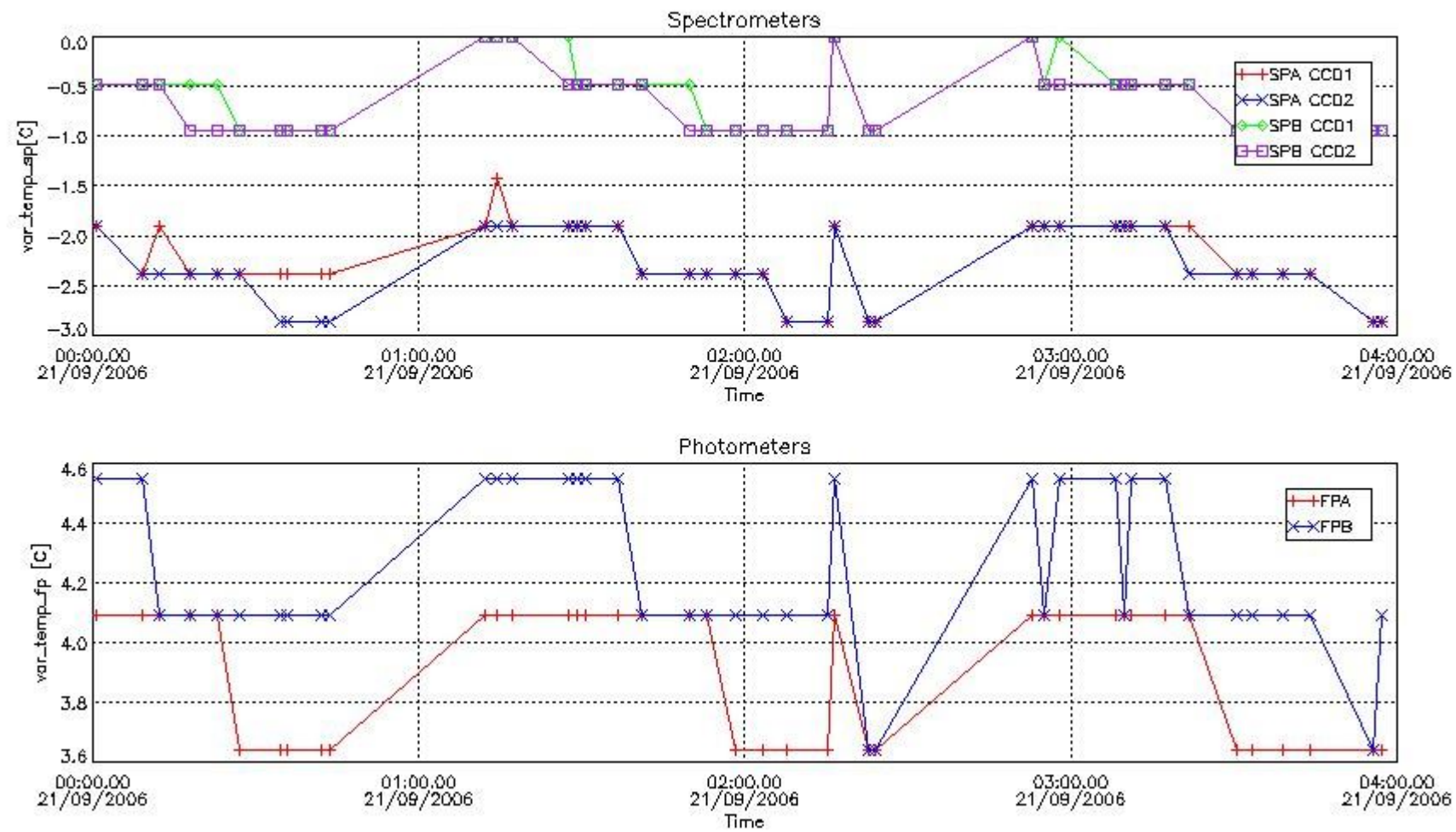
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20060921_000034_000000412051_00231_23832_1365.N1	21-SEP-2006 00:00:34	Straylight	40.500	18	24Alp PsA	1.1660	9700.0	81	23832	No
2	GOM_TRA_1PNPDE20060921_000914_000000362051_00231_23832_1366.N1	21-SEP-2006 00:09:14	Bright	36.000	162	34Alp Aqr	2.9440	5350.0	72	23832	No
3	GOM_TRA_1PNPDE20060921_001217_000000372051_00231_23832_1367.N1	21-SEP-2006 00:12:17	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	23832	No
4	GOM_TRA_1PNPDE20060921_001745_000000362051_00231_23832_1368.N1	21-SEP-2006 00:17:45	Bright	35.500	164	44Eta Peg	2.9480	5400.0	71	23832	No
5	GOM_TRA_1PNPDE20060921_002249_000000352051_00231_23832_1369.N1	21-SEP-2006 00:22:49	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	23832	No
6	GOM_TRA_1PNPDE20060921_002657_000000362051_00231_23832_1370.N1	21-SEP-2006 00:26:57	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23832	No
7	GOM_TRA_1PNPDE20060921_003430_000000362051_00231_23832_1371.N1	21-SEP-2006 00:34:30	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23832	No
8	GOM_TRA_1PNPDE20060921_003549_000000342051_00231_23832_1372.N1	21-SEP-2006 00:35:49	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	23832	No
9	GOM_TRA_1PNPDE20060921_004204_000000362051_00231_23832_1373.N1	21-SEP-2006 00:42:04	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	23832	No
10	GOM_TRA_1PNPDE20060921_004331_000000352051_00231_23832_1374.N1	21-SEP-2006 00:43:31	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	23832	No
11	GOM_TRA_1PNPDE20060921_011217_000000452051_00231_23832_1359.N1	21-SEP-2006 01:12:17	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	23832	No
12	GOM_TRA_1PNPDE20060921_011426_000000382051_00231_23832_1360.N1	21-SEP-2006 01:14:26	Dark	37.500	34	Gam2Vel	1.7930	23000.	75	23832	No
13	GOM_TRA_1PNPDE20060921_011708_000000402051_00231_23832_1361.N1	21-SEP-2006 01:17:08	Dark	40.000	41	Eps Car	1.8600	4100.0	80	23832	No
14	GOM_TRA_1PNPDE20060921_012739_000000382051_00232_23833_1362.N1	21-SEP-2006 01:27:39	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	23833	No
15	GOM_TRA_1PNPDE20060921_012906_000000402051_00232_23833_1363.N1	21-SEP-2006 01:29:06	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23833	No
16	GOM_TRA_1PNPDE20060921_013033_000000442051_00232_23833_1364.N1	21-SEP-2006 01:30:33	Dark	43.500	9	Alp Eri	0.45300	24000.	87	23833	No
17	GOM_TRA_1PNPDE20060921_013635_000000432051_00232_23833_1365.N1	21-SEP-2006 01:36:35	Straylight	43.000	63	Bet Gru	2.1500	2800.0	86	23833	No
18	GOM_TRA_1PNPDE20060921_014110_000000422051_00232_23833_1366.N1	21-SEP-2006 01:41:10	Straylight	42.000	18	24Alp PsA	1.1660	9700.0	84	23833	No
19	GOM_TRA_1PNPDE20060921_014950_000000372051_00232_23833_1367.N1	21-SEP-2006 01:49:50	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23833	No
20	GOM_TRA_1PNPDE20060921_015253_000000382051_00232_23833_1368.N1	21-SEP-2006 01:52:53	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23833	No
21	GOM_TRA_1PNPDE20060921_015821_000000352051_00232_23833_1369.N1	21-SEP-2006 01:58:21	Bright	35.000	164	44Eta Peg	2.9480	5400.0	70	23833	No
22	GOM_TRA_1PNPDE20060921_020325_000000382051_00232_23833_1370.N1	21-SEP-2006 02:03:25	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	23833	No
23	GOM_TRA_1PNPDE20060921_020733_000000342051_00232_23833_1371.N1	21-SEP-2006 02:07:33	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	23833	No
24	GOM_TRA_1PNPDE20060921_021506_000000332051_00232_23833_1372.N1	21-SEP-2006 02:15:06	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	23833	No
25	GOM_TRA_1PNPDE20060921_021625_000000362051_00232_23833_1362.N1	21-SEP-2006 02:16:25	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	23833	Yes
26	GOM_TRA_1PNPDE20060921_021625_000000362051_00232_23833_1360.N1	21-SEP-2006 02:16:25	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	23833	Yes
27	GOM_TRA_1PNPDE20060921_022240_000000362051_00232_23833_1363.N1	21-SEP-2006 02:22:40	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	23833	No
28	GOM_TRA_1PNPDE20060921_022408_000000352051_00232_23833_1364.N1	21-SEP-2006 02:24:08	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	23833	No
29	GOM_TRA_1PNPDE20060921_025253_000000432051_00232_23833_1365.N1	21-SEP-2006 02:52:53	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	23833	No
30	GOM_TRA_1PNPDE20060921_025502_000000412051_00232_23833_1366.N1	21-SEP-2006 02:55:02	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	23833	No
31	GOM_TRA_1PNPDE20060921_025745_000000492051_00232_23833_1365.N1	21-SEP-2006 02:57:45	Dark	49.000	41	Eps Car	1.8600	4100.0	98	23833	No
32	GOM_TRA_1PNPDE20060921_030815_000000362051_00233_23834_1368.N1	21-SEP-2006 03:08:15	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	23834	No
33	GOM_TRA_1PNPDE20060921_030943_000000402051_00233_23834_1369.N1	21-SEP-2006 03:09:43	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	23834	No
34	GOM_TRA_1PNPDE20060921_031109_000000492051_00233_23834_1368.N1	21-SEP-2006 03:11:09	Dark	49.000	9	Alp Eri	0.45300	24000.	98	23834	No
35	GOM_TRA_1PNPDE20060921_031711_000000502051_00233_23834_1369.N1	21-SEP-2006 03:17:11	Straylight	50.000	63	Bet Gru	2.1500	2800.0	100	23834	No
36	GOM_TRA_1PNPDE20060921_032146_000000472051_00233_23834_1370.N1	21-SEP-2006 03:21:46	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	23834	No
37	GOM_TRA_1PNPDE20060921_033026_000000372051_00233_23834_1371.N1	21-SEP-2006 03:30:26	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23834	No
38	GOM_TRA_1PNPDE20060921_033329_000000372051_00233_23834_1372.N1	21-SEP-2006 03:33:29	Bright	36.500	61	8Eps Peg	2.1000	3900.0	73	23834	No
39	GOM_TRA_1PNPDE20060921_033857_000000372051_00233_23834_1373.N1	21-SEP-2006 03:38:57	Bright	37.000	164	44Eta Peg	2.9480	5400.0	74	23834	No
40	GOM_TRA_1PNPDE20060921_034401_000000382051_00233_23834_1374.N1	21-SEP-2006 03:44:01	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	23834	No
41	GOM_TRA_1PNPDE20060921_035542_000000362051_00233_23834_1375.N1	21-SEP-2006 03:55:42	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23834	No
42	GOM_TRA_1PNPDE20060921_035701_000000532051_00233_23834_1376.N1	21-SEP-2006 03:57:01	Bright	52.500	60	7Bet UMi	2.0810	3950.0	105	23834	No

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



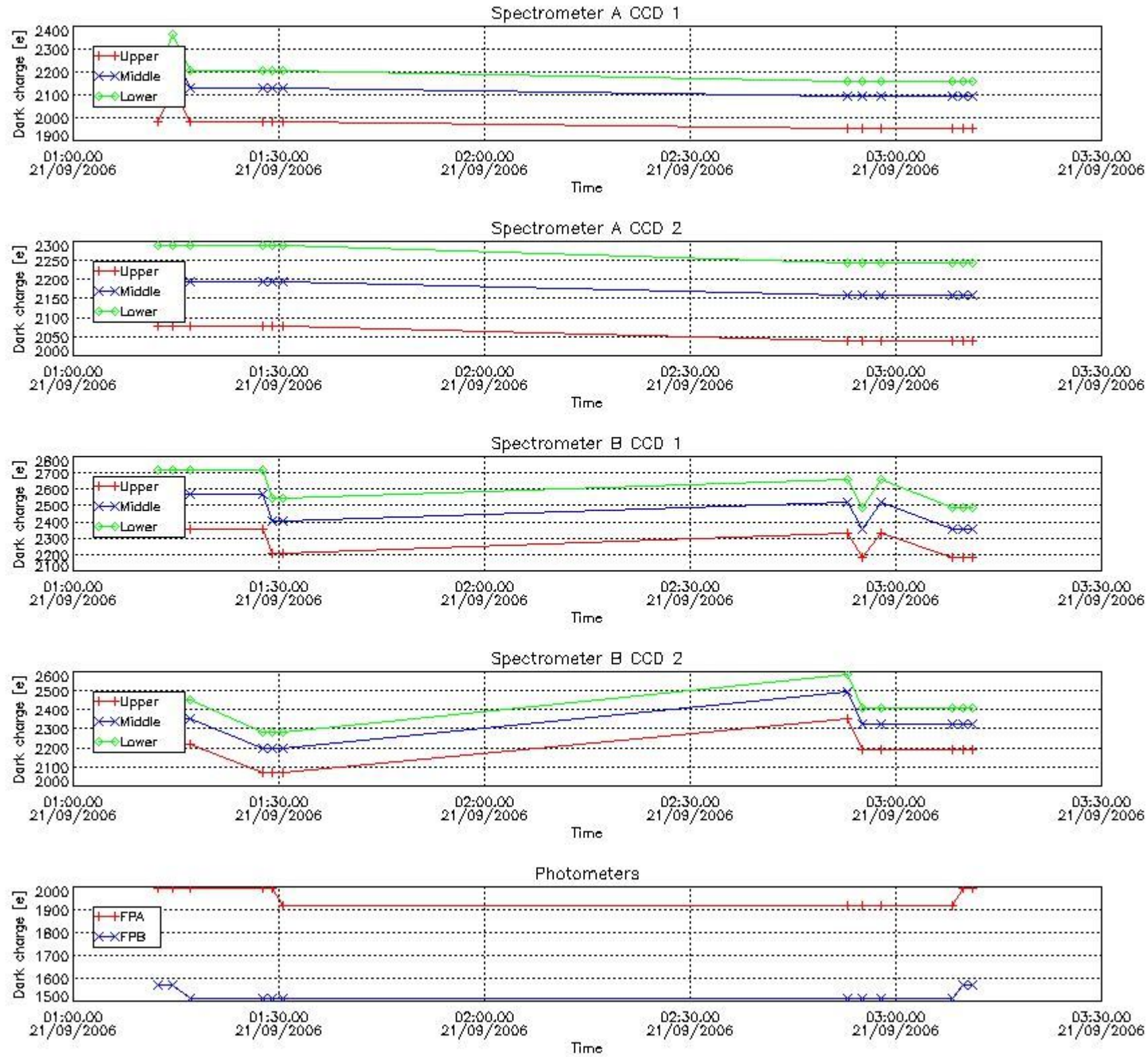
### 4. Overview of dark signal processing per product

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



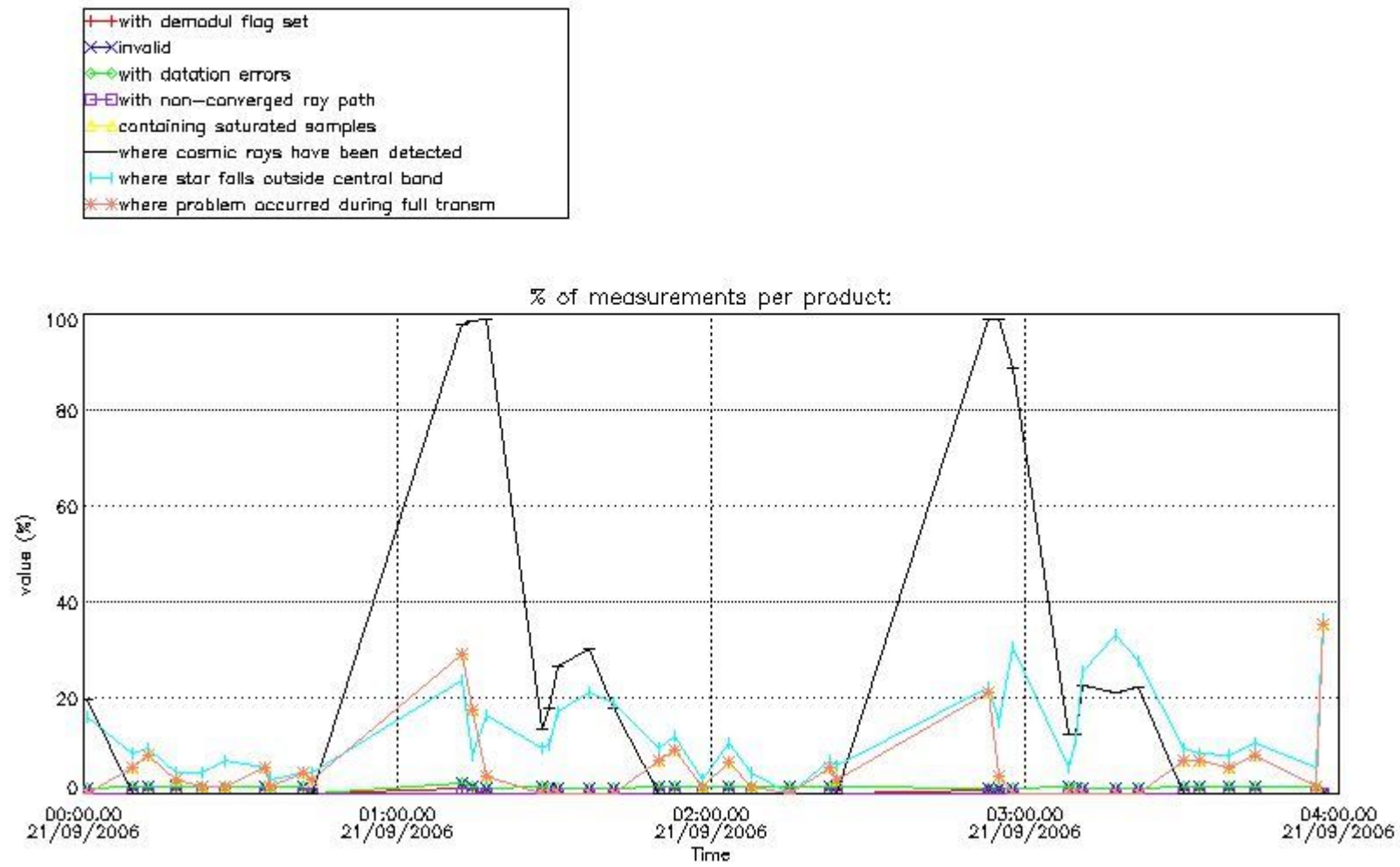
## 5. Demodulation flag and quality information monitoring

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.

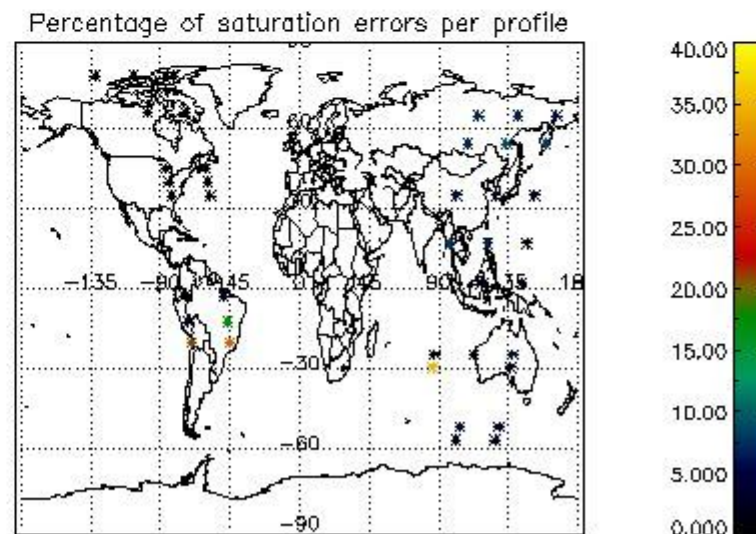
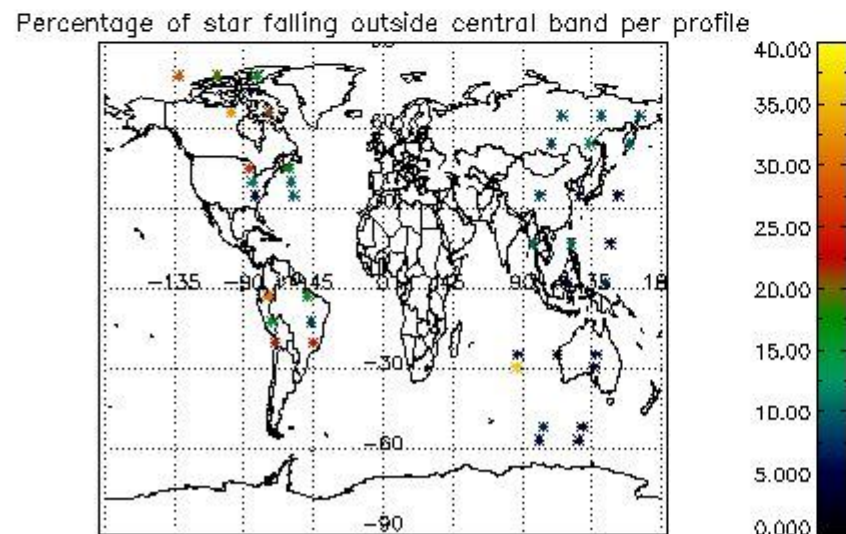
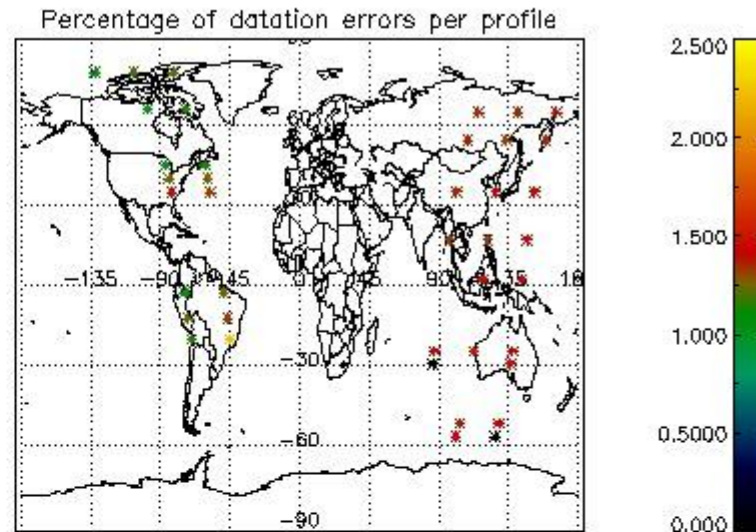
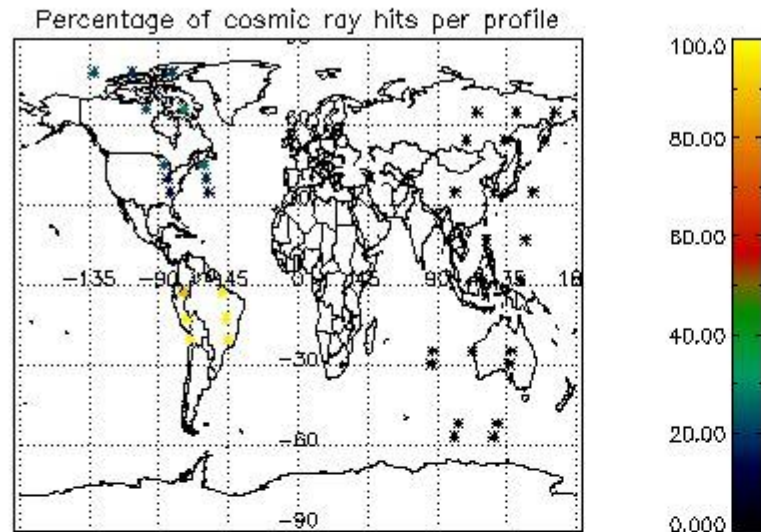
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	15.0000 %
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)



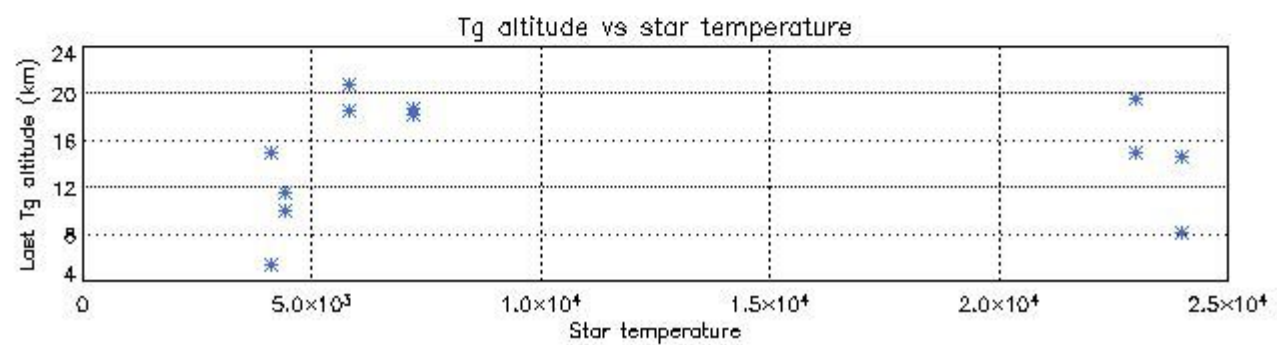
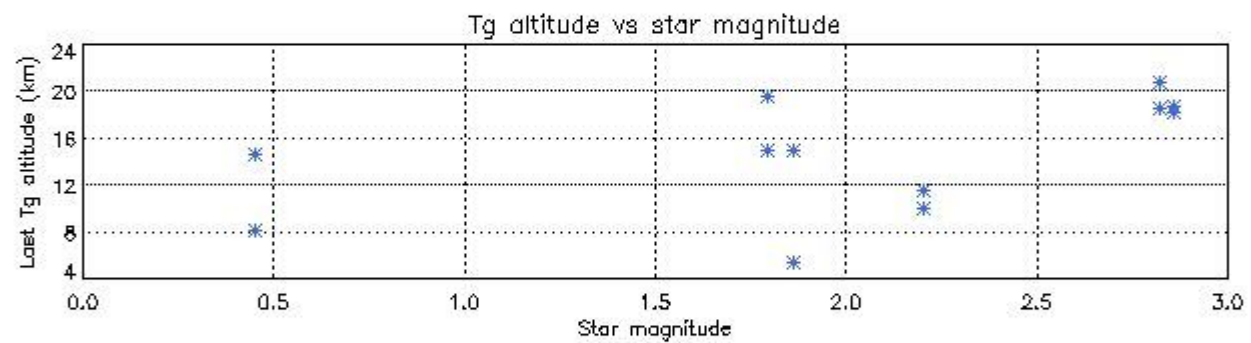
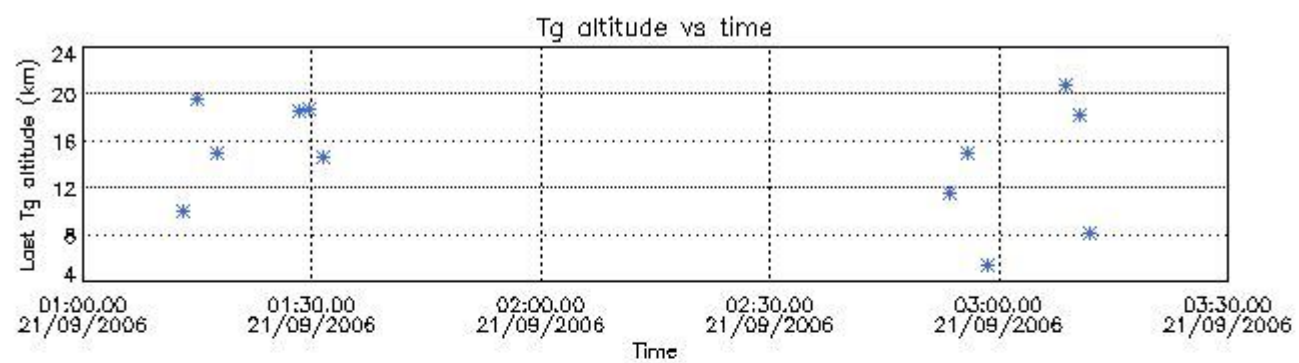
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.610	20.169	NaN
St. deviation:	4.9067	4.6144	NaN
Maximum:	20.720	27.213	NaN
Minimum:	5.4010	3.2290	NaN
Number of data:	12.000	23.000	NaN

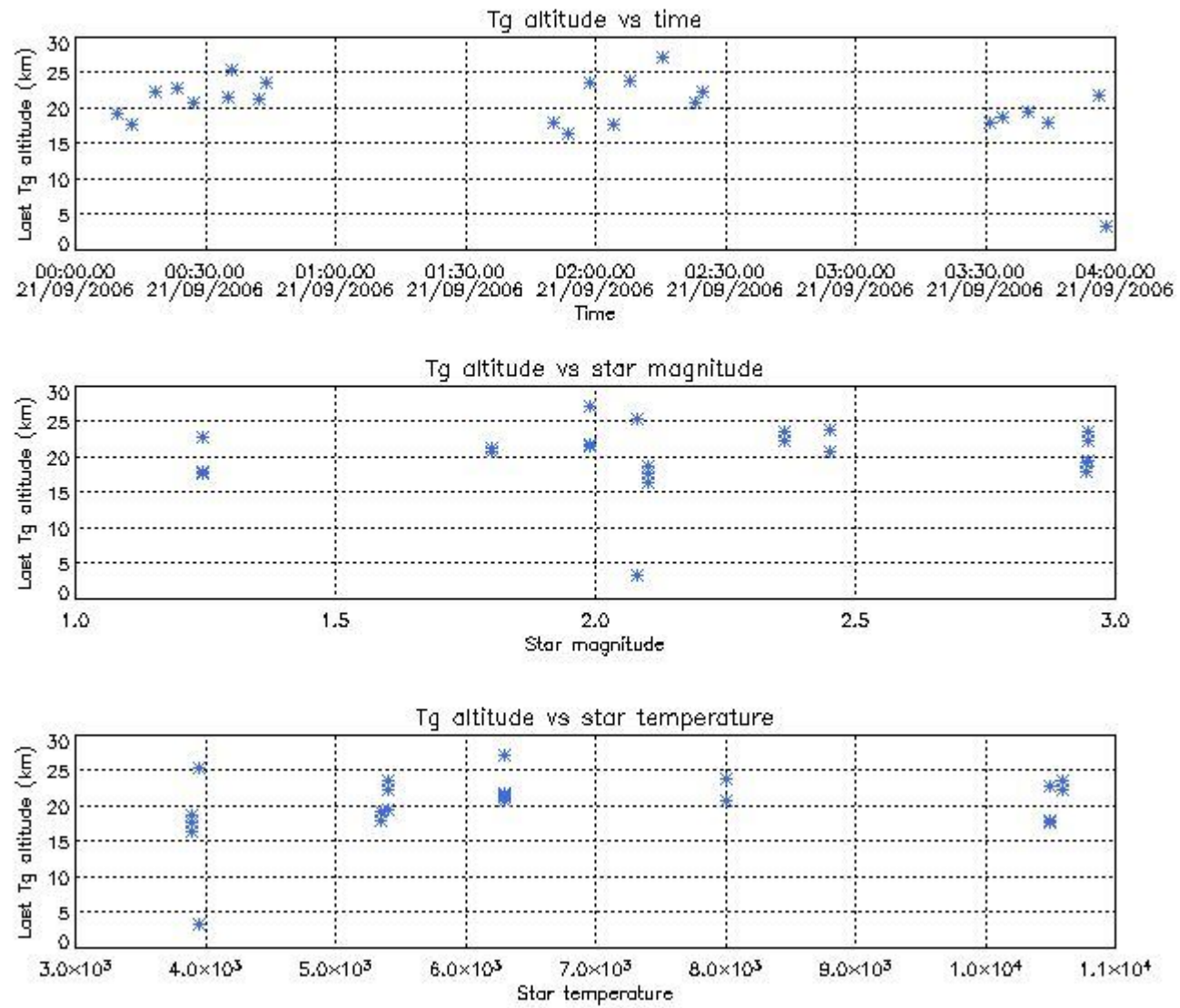
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



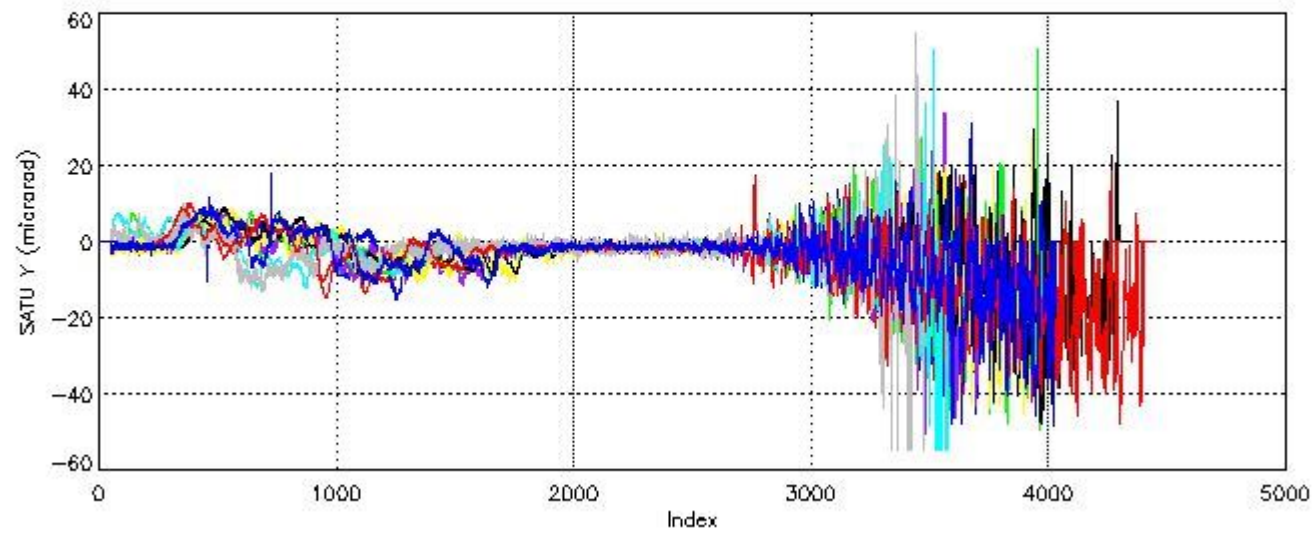
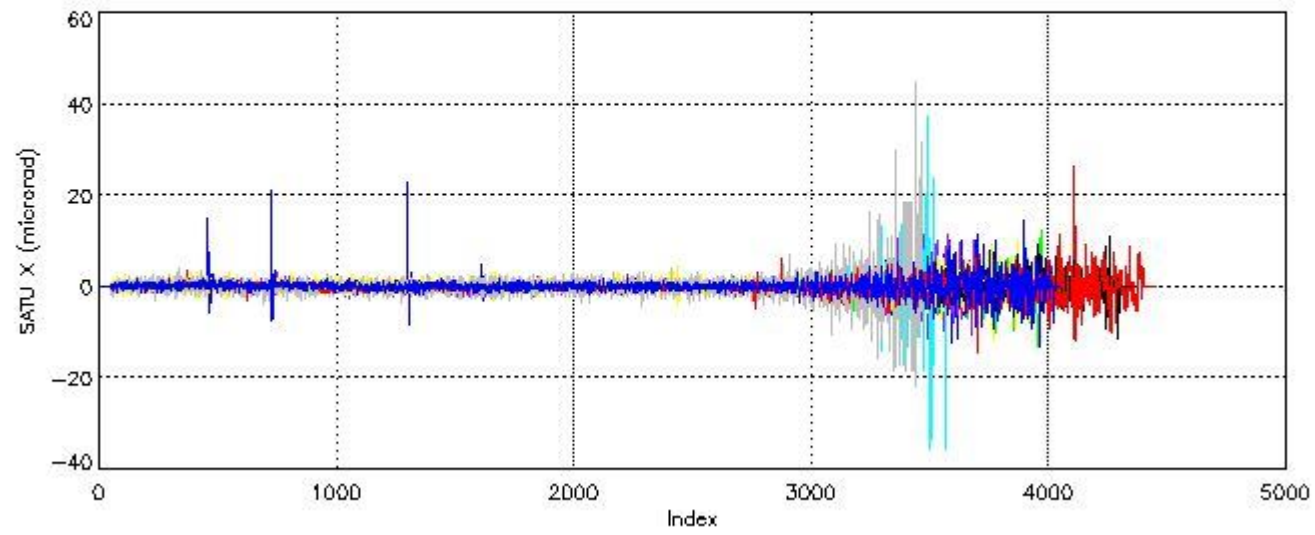
## 7. Star Acquisition and Tracking Unit (SATU)

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.

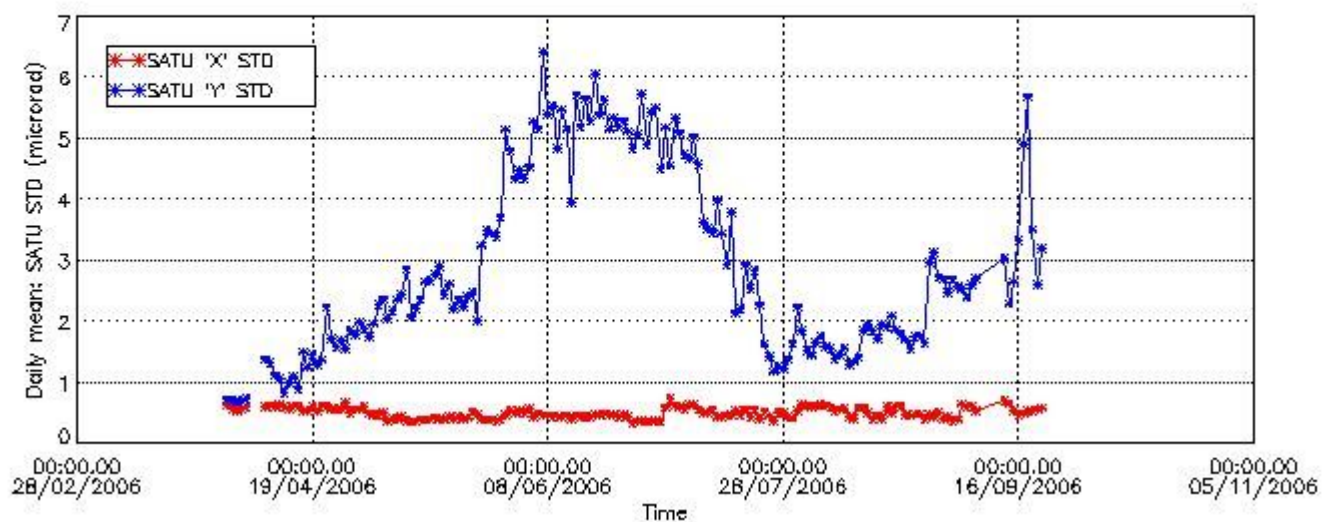
### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.17226	1.4009	0.083329	1.1098
St. deviation:	0.57158	3.1817	0.63986	3.1471
Maximum:	20.900	17.900	3.8000	11.800
Minimum:	-0.50000	-7.8000	-1.2000	-5.3000

Number of data:	10550.	10550.	19000.	19000.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

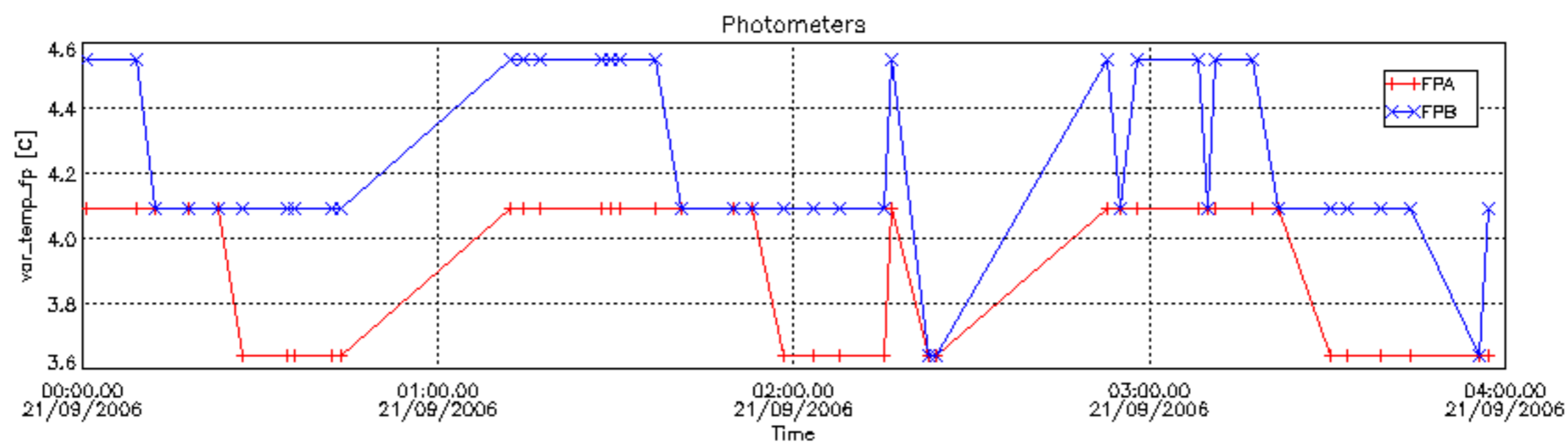
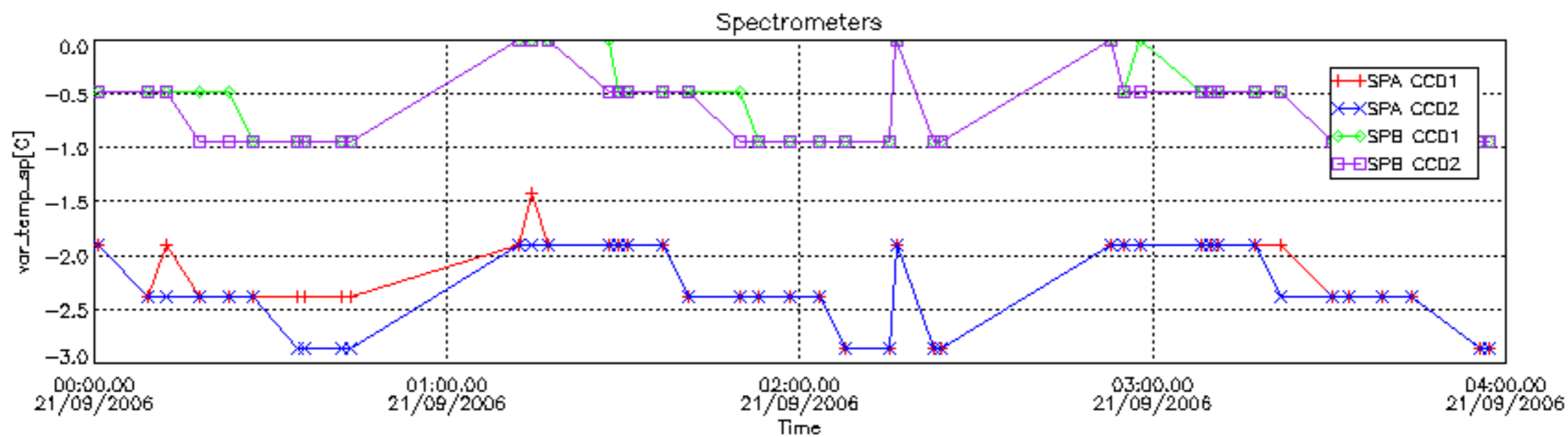
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

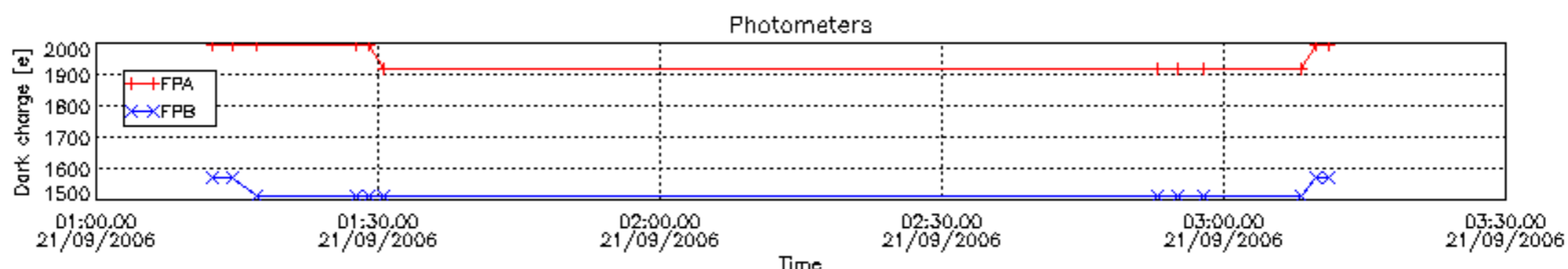
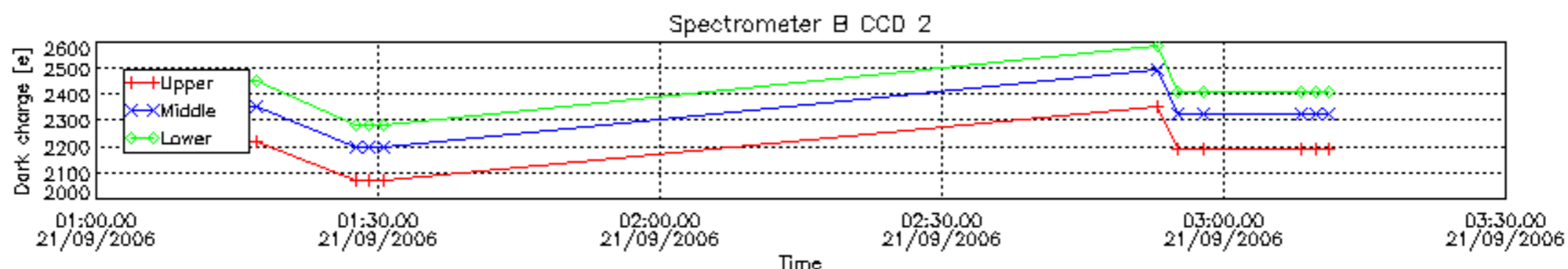
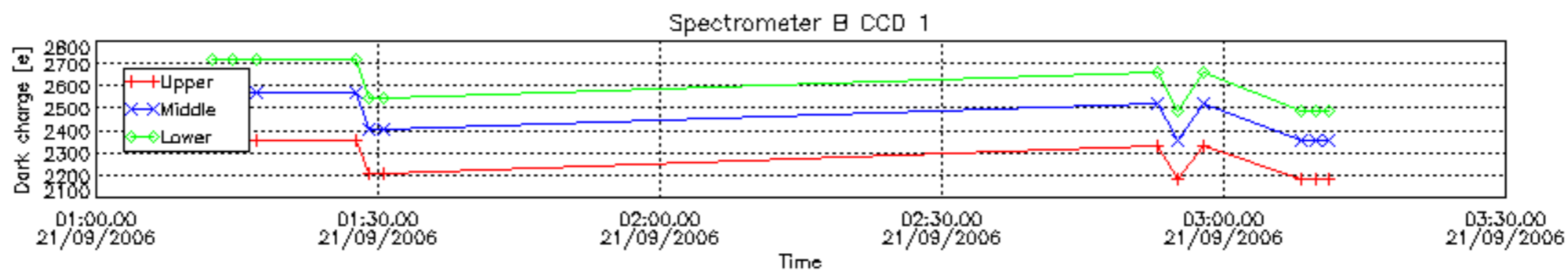
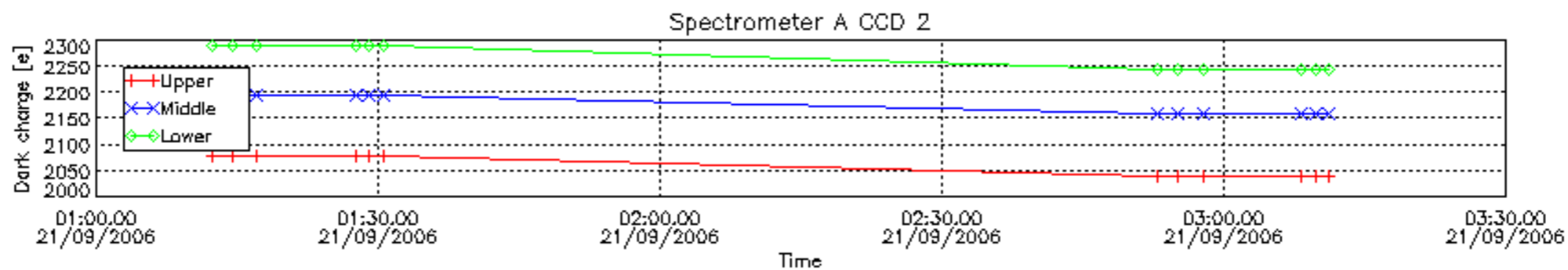
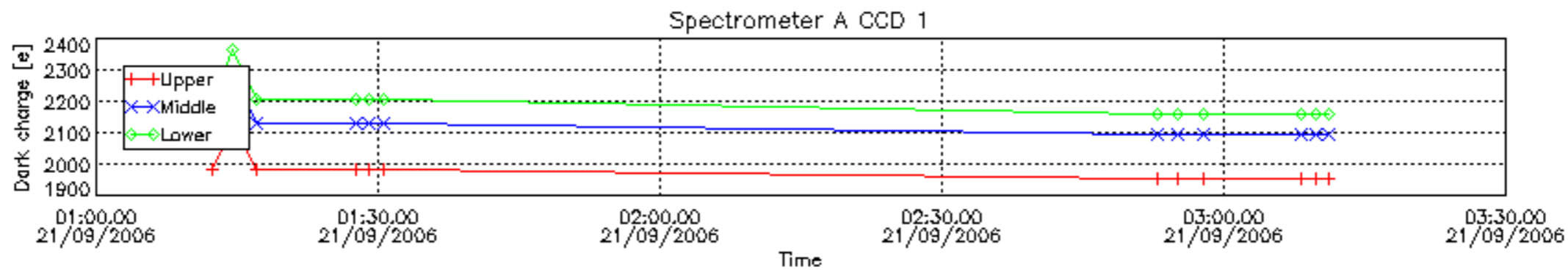


### 8. Auxiliary Data Files used for the production reported in section 2.2

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.

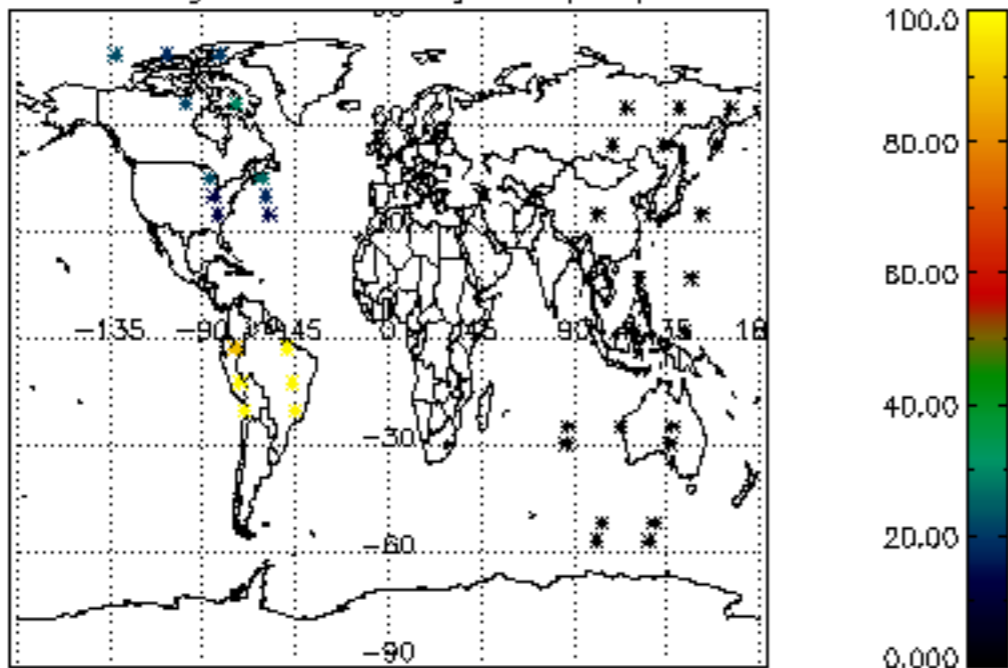
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	21-SEP-2006 00:00:34
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060918_152556_20060916_000000_20100101_000000	1	21-SEP-2006 00:00:34
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-SEP-2006 00:00:34
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-SEP-2006 00:00:34
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-SEP-2006 00:00:34
ECMWF_FILE	AUX_ECF_AXNECM20060920_073742_20060920_210000_20060921_090000	1	21-SEP-2006 00:00:34
ECMWF_FILE	AUX_ECA_AXNECM20060921_060751_20060920_210000_20060921_090000	26	21-SEP-2006 02:16:25
ECMWF_FILE	AUX_ECF_AXNECM20060920_073742_20060920_210000_20060921_090000	31	21-SEP-2006 02:57:45
ECMWF_FILE	AUX_ECA_AXNECM20060921_060751_20060920_210000_20060921_090000	32	21-SEP-2006 03:08:15
OPTIONAL_ECMWF_FILE	MISSING	1	21-SEP-2006 00:00:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060920_214049_000057382051_00229_23830_0599.N1	1	21-SEP-2006 00:00:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060921_010244_000038252051_00231_23832_0601.N1	11	21-SEP-2006 01:12:17
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060920_233717_20060920_183532_20060930_200147	25	21-SEP-2006 02:16:25



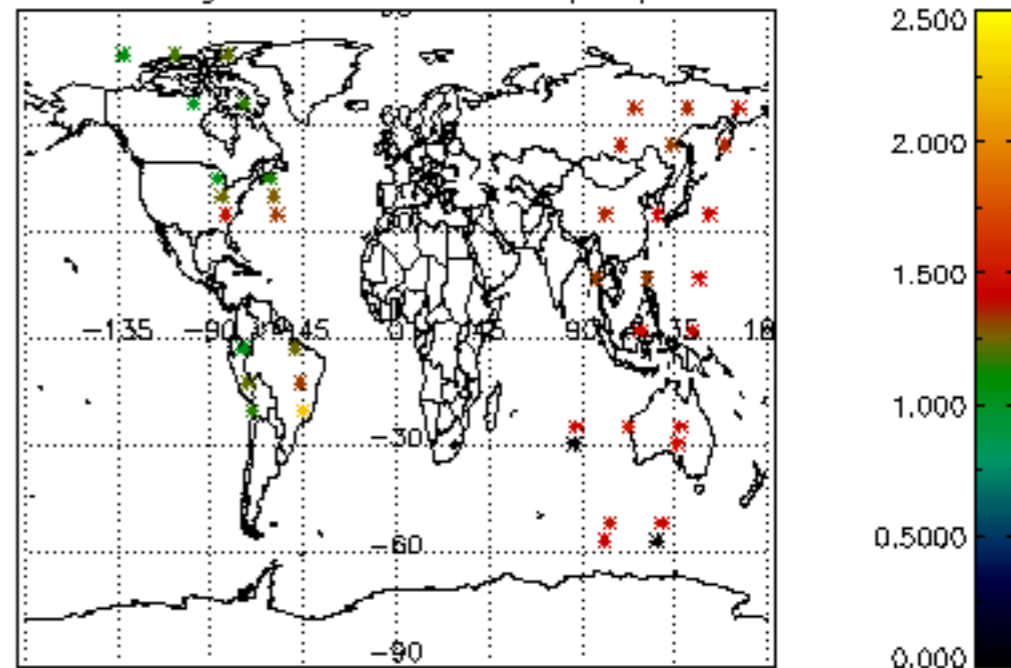




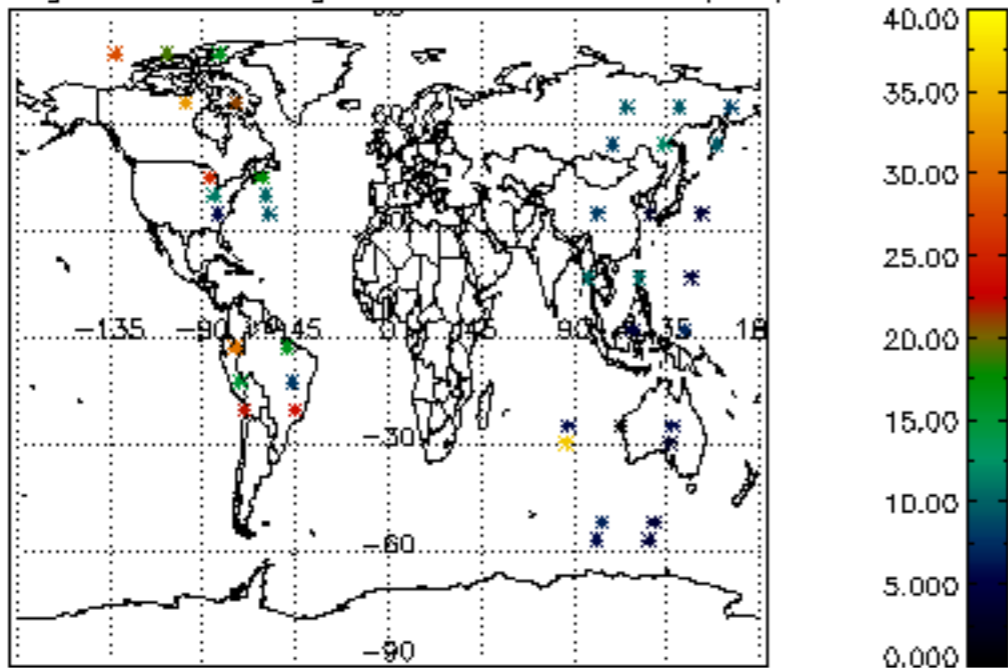
Percentage of cosmic ray hits per profile



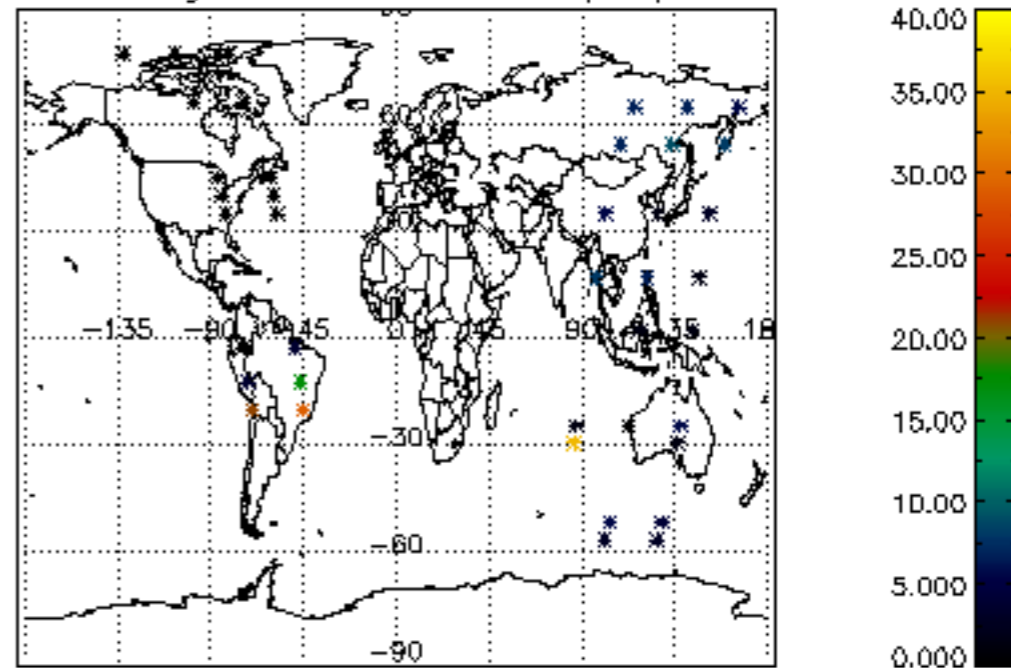
Percentage of datation errors per profile



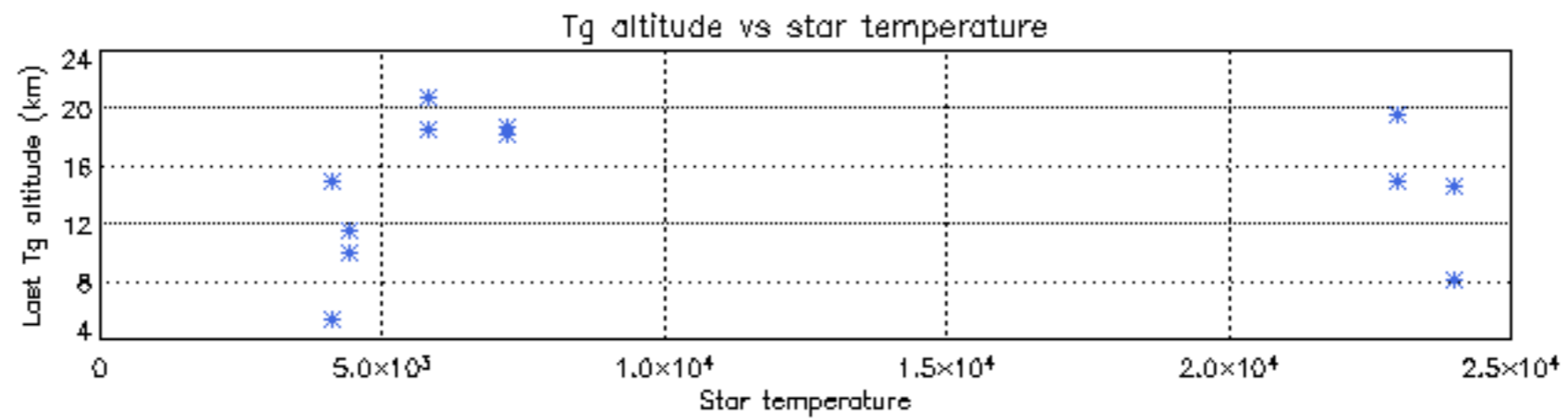
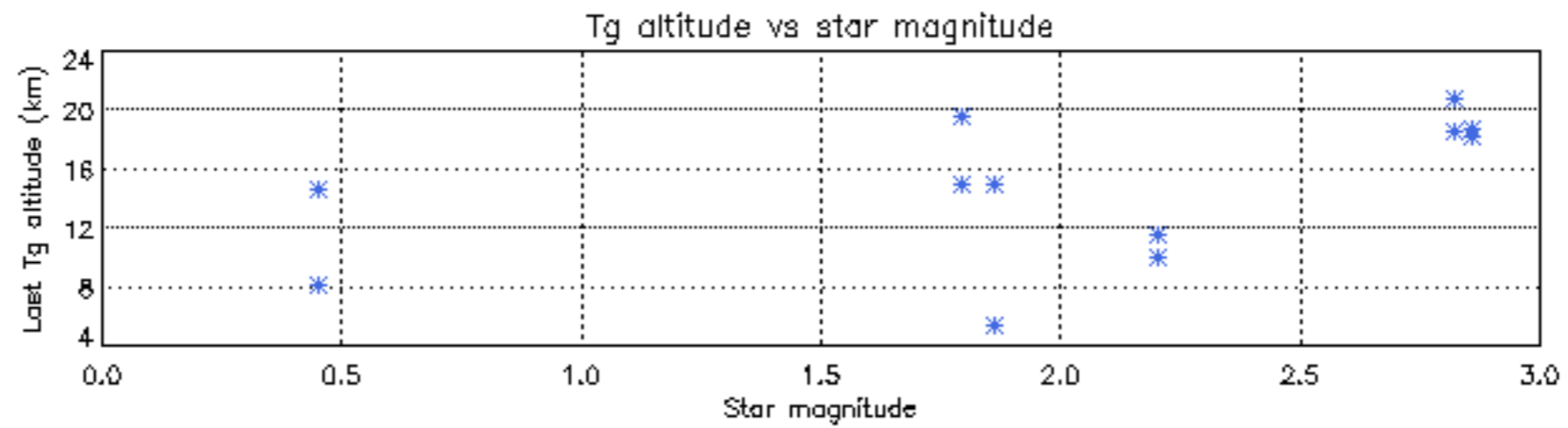
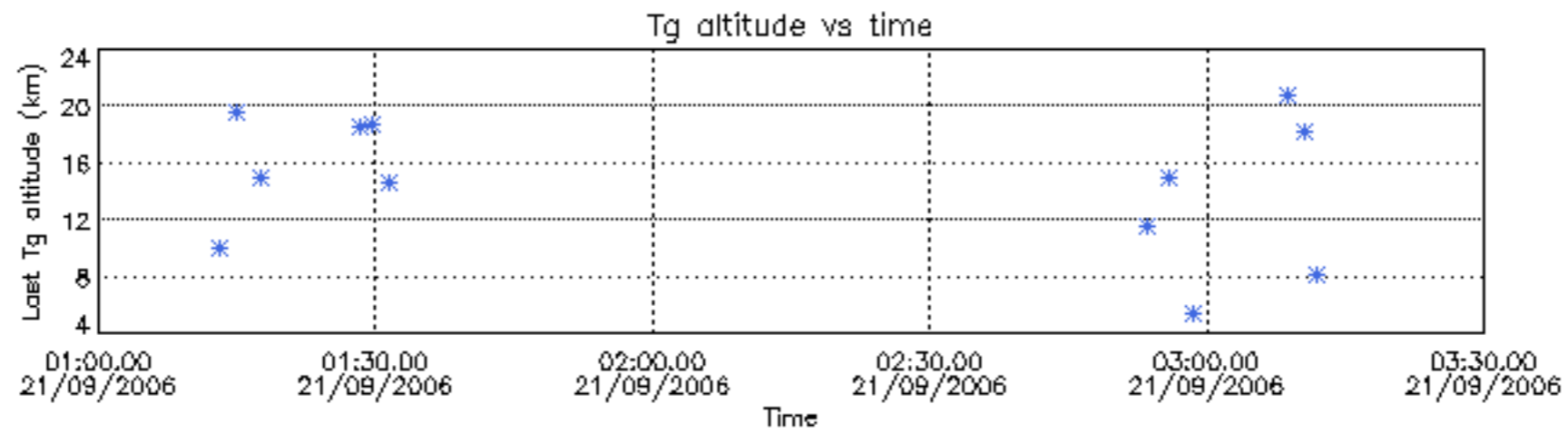
Percentage of star falling outside central band per profile



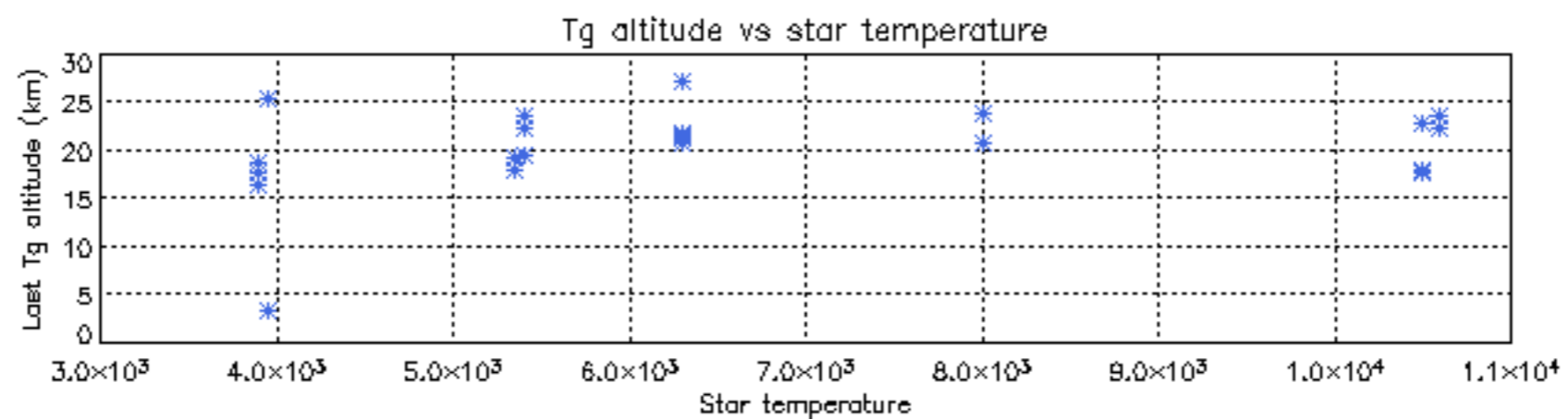
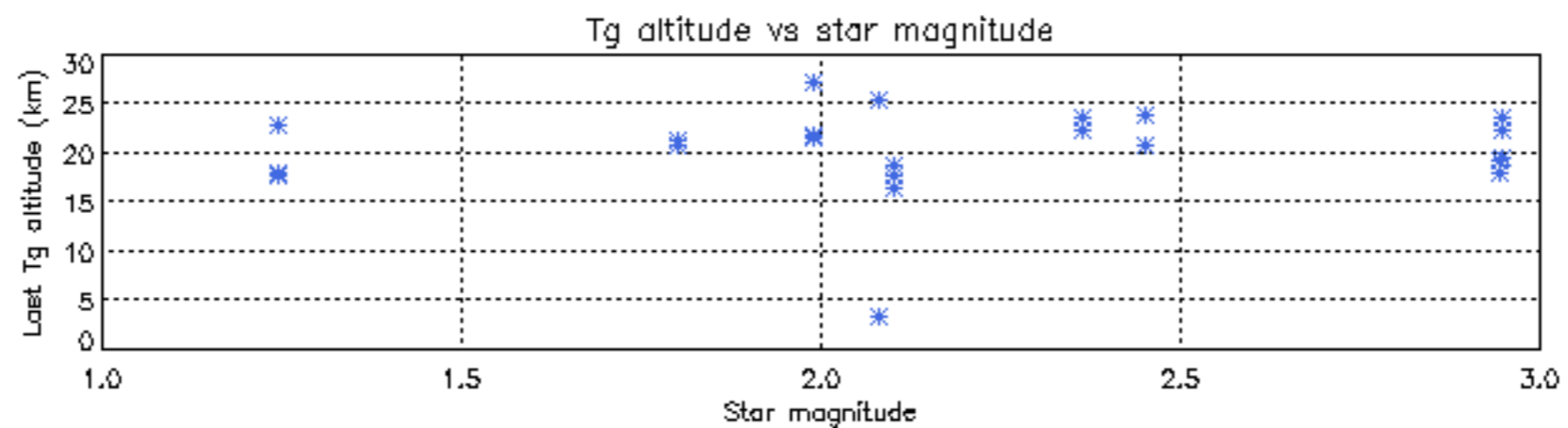
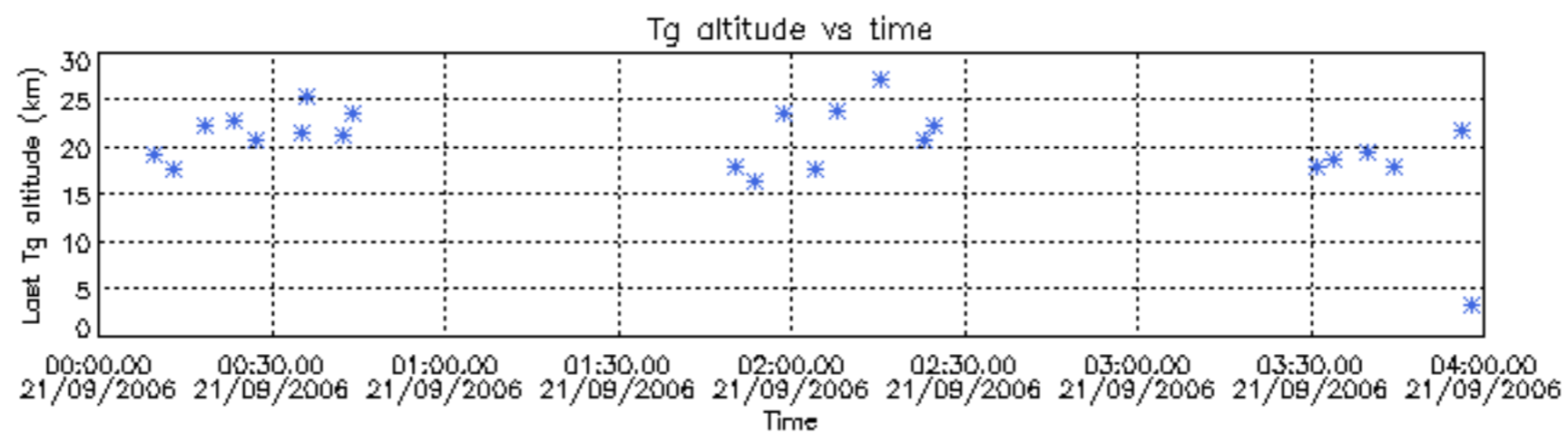
Percentage of saturation errors per profile



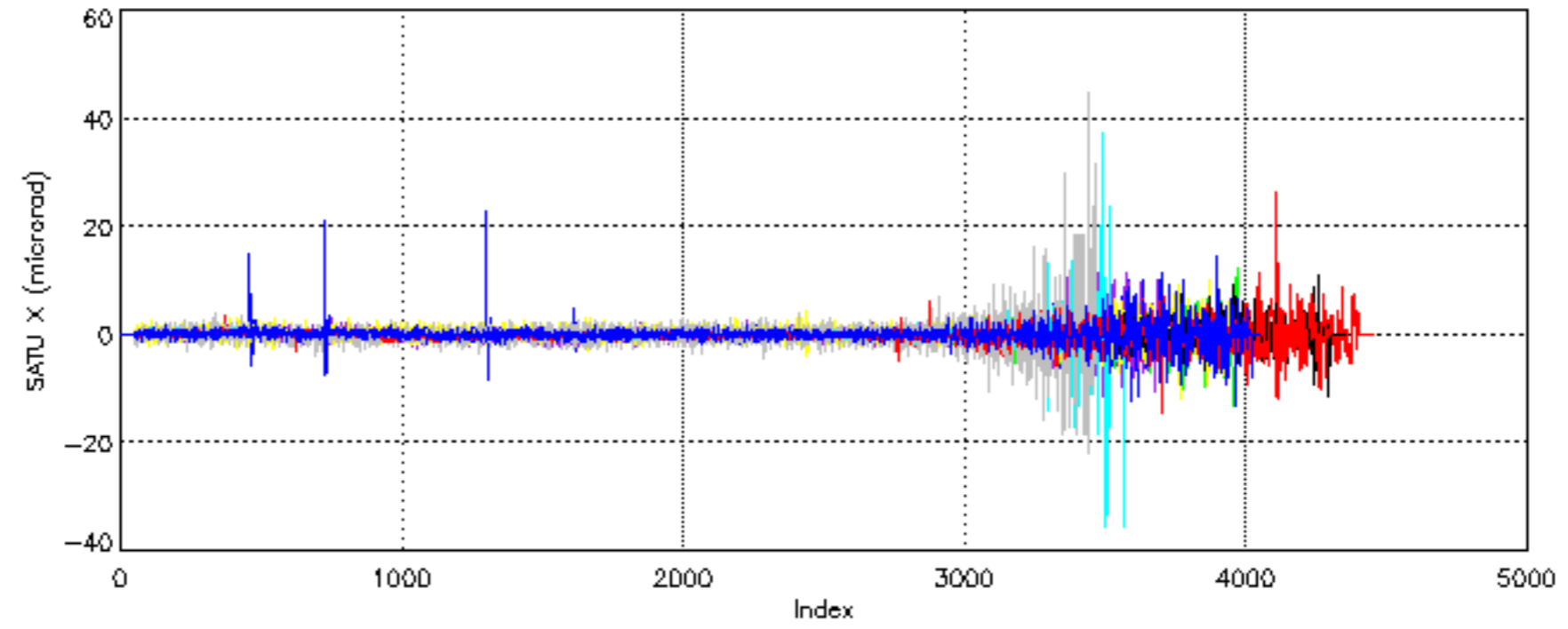
Tangent altitude at which the star is lost

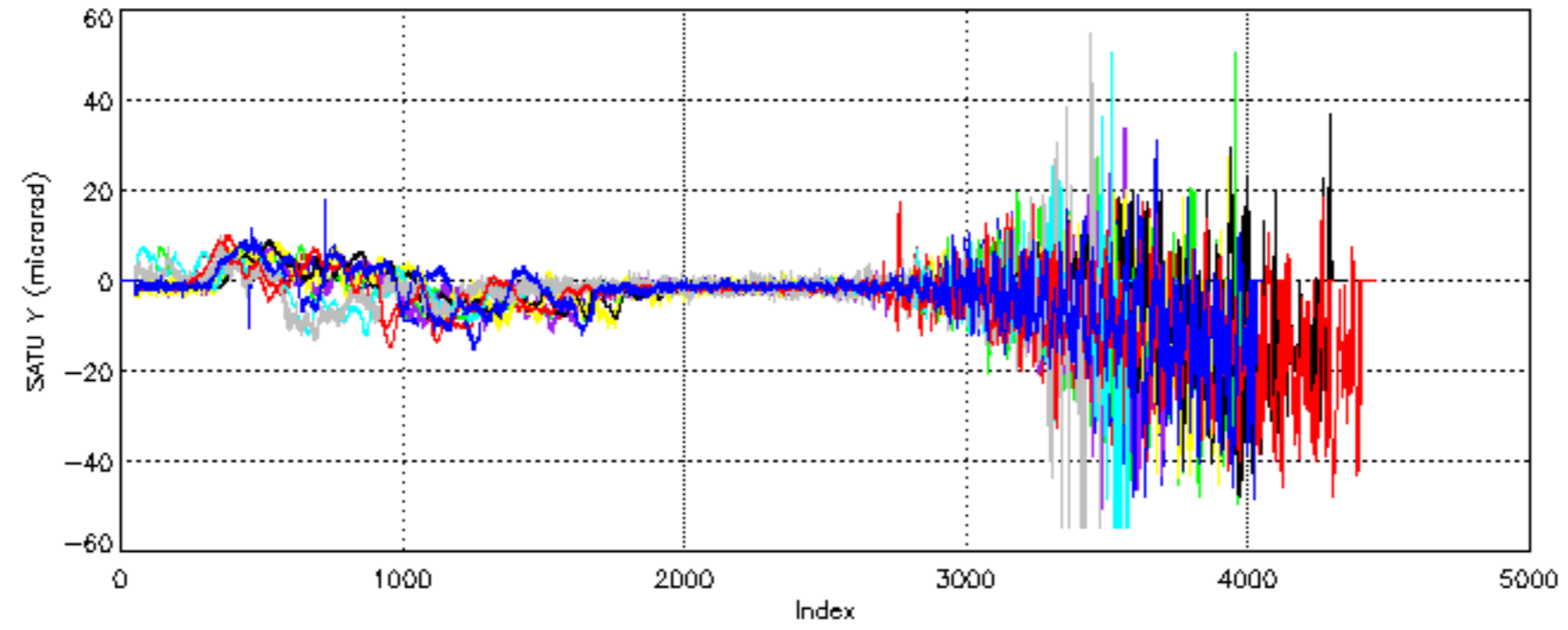


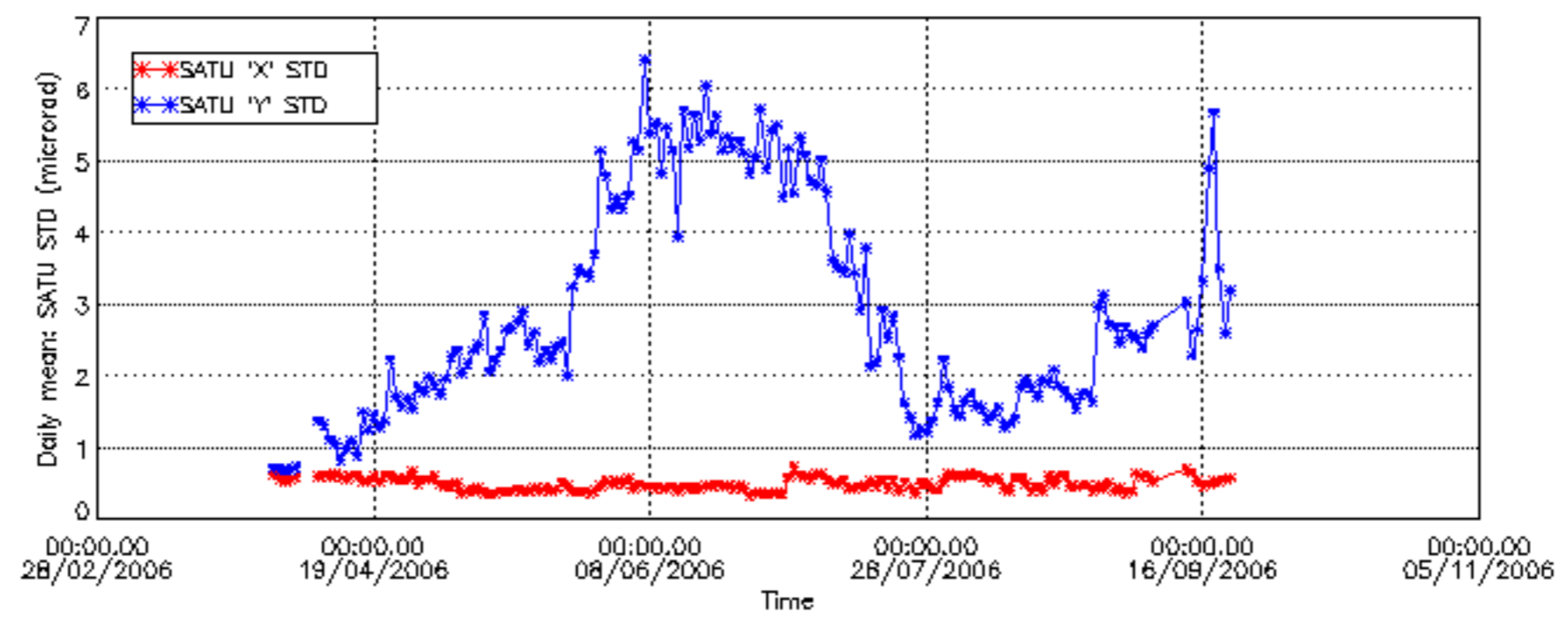
Tangent altitude at which the star is lost











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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  
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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  
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3; -662.3; 01-SEP-2006 03:16:14; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;23547  
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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  
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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  
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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  
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19; 2976.1; 01-SEP-2006 04:16:53; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;23548  
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6; -277.5; 01-SEP-2006 05:03:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23548  
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10; 1085.1; 01-SEP-2006 05:25:58; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;23549  
11; 1329.9; 01-SEP-2006 05:30:03; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;23549  
12; 1619.7; 01-SEP-2006 05:34:52; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;23549  
13; 1807.9; 01-SEP-2006 05:38:01; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23549  
14; 1896.0; 01-SEP-2006 05:39:29; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;23549  
15; 2075.9; 01-SEP-2006 05:42:29; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;23549  
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12; 1895.7; 01-SEP-2006 22:25:28; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;23559  
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16; 2975.1; 01-SEP-2006 22:43:27; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;23559  
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