

GOMOS Daily Report 19-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	21SEP2006 05:32:02
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (19SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	35
Nb of prods with errors	0

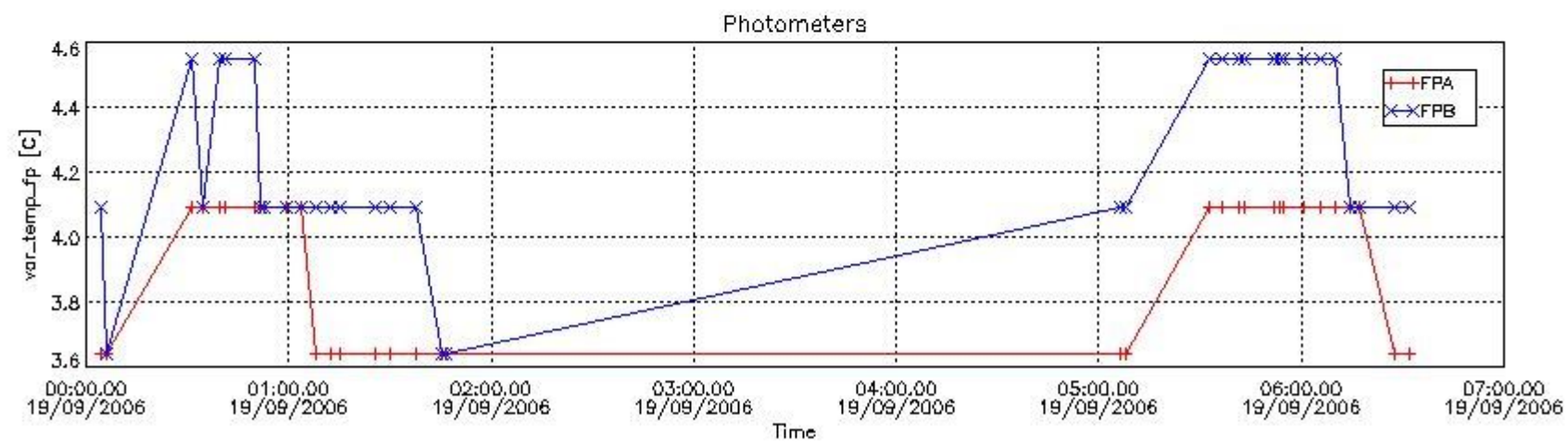
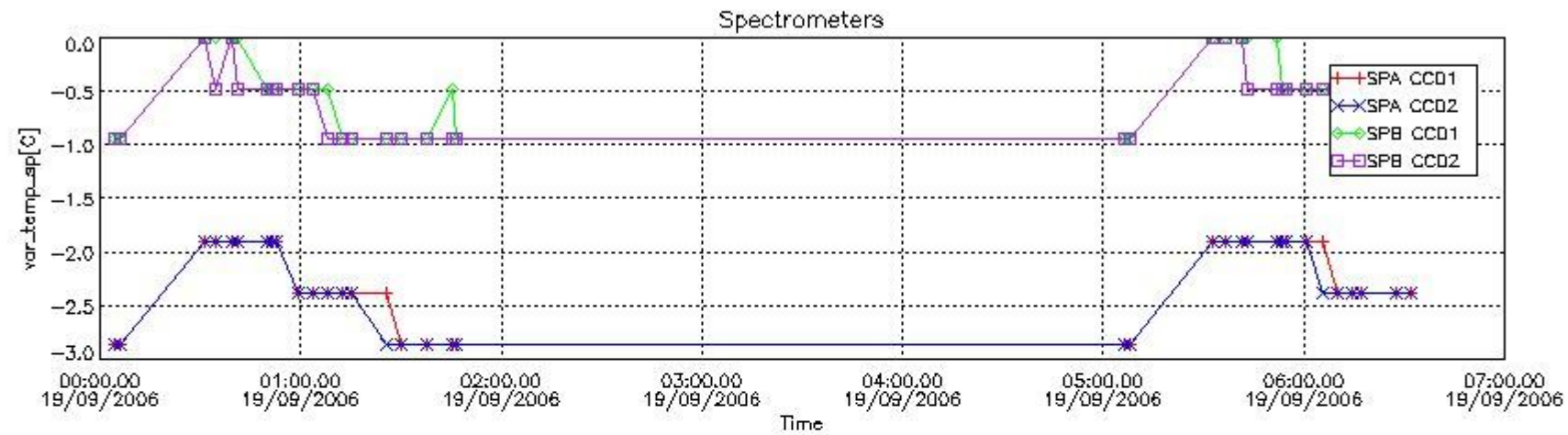
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20060919_000436_000000382051_00202_23803_1354.N1	19-SEP-2006 00:04:36	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	23803	No
2	GOM_TRA_1PNPDE20060919_000603_000000342051_00202_23803_1355.N1	19-SEP-2006 00:06:03	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	23803	No
3	GOM_TRA_1PNPDE20060919_003106_000000422051_00202_23803_1343.N1	19-SEP-2006 00:31:06	Dark	41.500	132	15Rho Pup	2.8030	6900.0	83	23803	No
4	GOM_TRA_1PNPDE20060919_003448_000000422051_00202_23803_1342.N1	19-SEP-2006 00:34:48	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	23803	No
5	GOM_TRA_1PNPDE20060919_003938_000000372051_00202_23803_1345.N1	19-SEP-2006 00:39:38	Dark	36.500	41	Eps Car	1.8600	4100.0	73	23803	No
6	GOM_TRA_1PNPDE20060919_004121_000000492051_00203_23804_1346.N1	19-SEP-2006 00:41:21	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	23804	No
7	GOM_TRA_1PNPDE20060919_005011_000000372051_00203_23804_1347.N1	19-SEP-2006 00:50:11	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23804	No
8	GOM_TRA_1PNPDE20060919_005131_000000392051_00203_23804_1348.N1	19-SEP-2006 00:51:31	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	23804	No
9	GOM_TRA_1PNPDE20060919_005257_000000522051_00203_23804_1349.N1	19-SEP-2006 00:52:57	Dark	52.000	9	Alp Eri	0.45300	24000.	104	23804	No
10	GOM_TRA_1PNPDE20060919_005907_000000432051_00203_23804_1348.N1	19-SEP-2006 00:59:07	Straylight	43.000	63	Bet Gru	2.1500	2800.0	86	23804	No
11	GOM_TRA_1PNPDE20060919_010342_000000442051_00203_23804_1351.N1	19-SEP-2006 01:03:42	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	23804	No
12	GOM_TRA_1PNPDE20060919_010812_000000392051_00203_23804_1352.N1	19-SEP-2006 01:08:12	Twilight_stray	38.500	142	49Del Cap	2.8500	8900.0	77	23804	No
13	GOM_TRA_1PNPDE20060919_011223_000000362051_00203_23804_1353.N1	19-SEP-2006 01:12:23	Bright	36.000	162	34Alp Aqr	2.9440	5350.0	72	23804	No
14	GOM_TRA_1PNPDE20060919_011525_000000372051_00203_23804_1354.N1	19-SEP-2006 01:15:25	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	23804	No
15	GOM_TRA_1PNPDE20060919_012554_000000372051_00203_23804_1355.N1	19-SEP-2006 01:25:54	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	23804	No
16	GOM_TRA_1PNPDE20060919_013008_000000362051_00203_23804_1354.N1	19-SEP-2006 01:30:08	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	23804	No
17	GOM_TRA_1PNPDE20060919_013744_000000352051_00203_23804_1357.N1	19-SEP-2006 01:37:44	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	23804	No
18	GOM_TRA_1PNPDE20060919_014512_000000372051_00203_23804_1358.N1	19-SEP-2006 01:45:12	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	23804	No
19	GOM_TRA_1PNPDE20060919_014639_000000352051_00203_23804_1359.N1	19-SEP-2006 01:46:39	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	23804	No
20	GOM_TRA_1PNPDE20060919_050624_000000372051_00205_23806_1346.N1	19-SEP-2006 05:06:24	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	23806	No
21	GOM_TRA_1PNPDE20060919_050752_000000342051_00205_23806_1347.N1	19-SEP-2006 05:07:52	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	23806	No
22	GOM_TRA_1PNPDE20060919_053256_000000422051_00205_23806_1348.N1	19-SEP-2006 05:32:56	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	23806	No
23	GOM_TRA_1PNPDE20060919_053636_000000442051_00205_23806_1349.N1	19-SEP-2006 05:36:36	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	23806	No
24	GOM_TRA_1PNPDE20060919_054127_000000442051_00205_23806_1350.N1	19-SEP-2006 05:41:27	Dark	43.500	41	Eps Car	1.8600	4100.0	87	23806	No
25	GOM_TRA_1PNPDE20060919_054311_000000462051_00206_23807_1351.N1	19-SEP-2006 05:43:11	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	23807	No
26	GOM_TRA_1PNPDE20060919_055200_000000382051_00206_23807_1352.N1	19-SEP-2006 05:52:00	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	23807	No
27	GOM_TRA_1PNPDE20060919_055320_000000402051_00206_23807_1353.N1	19-SEP-2006 05:53:20	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	23807	No
28	GOM_TRA_1PNPDE20060919_055446_000000512051_00206_23807_1354.N1	19-SEP-2006 05:54:46	Dark	50.500	9	Alp Eri	0.45300	24000.	101	23807	No
29	GOM_TRA_1PNPDE20060919_060056_000000442051_00206_23807_1355.N1	19-SEP-2006 06:00:56	Straylight	43.500	63	Bet Gru	2.1500	2800.0	87	23807	No
30	GOM_TRA_1PNPDE20060919_060530_000000452051_00206_23807_1356.N1	19-SEP-2006 06:05:30	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	23807	No
31	GOM_TRA_1PNPDE20060919_061001_000000362051_00206_23807_1357.N1	19-SEP-2006 06:10:01	Twilight_stray	36.000	142	49Del Cap	2.8500	8900.0	72	23807	No
32	GOM_TRA_1PNPDE20060919_061412_000000372051_00206_23807_1358.N1	19-SEP-2006 06:14:12	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23807	No
33	GOM_TRA_1PNPDE20060919_061713_000000382051_00206_23807_1359.N1	19-SEP-2006 06:17:13	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23807	No
34	GOM_TRA_1PNPDE20060919_062742_000000382051_00206_23807_1360.N1	19-SEP-2006 06:27:42	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	23807	No
35	GOM_TRA_1PNPDE20060919_063156_000000352051_00206_23807_1361.N1	19-SEP-2006 06:31:56	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23807	No

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



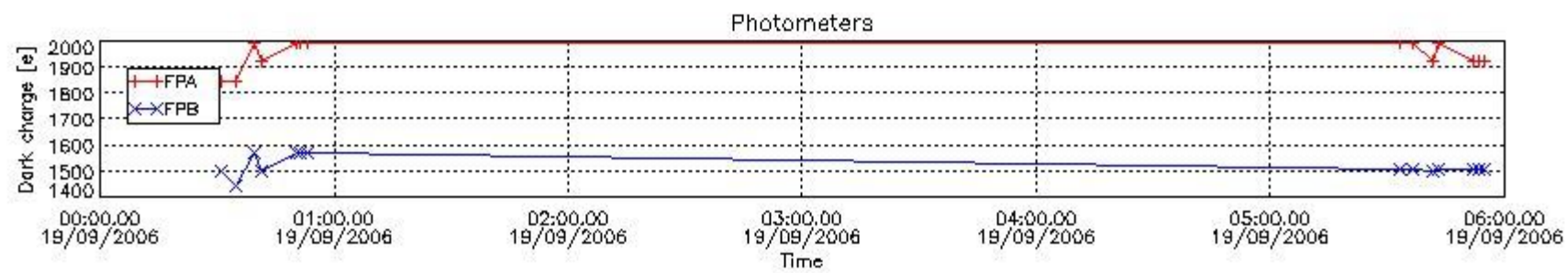
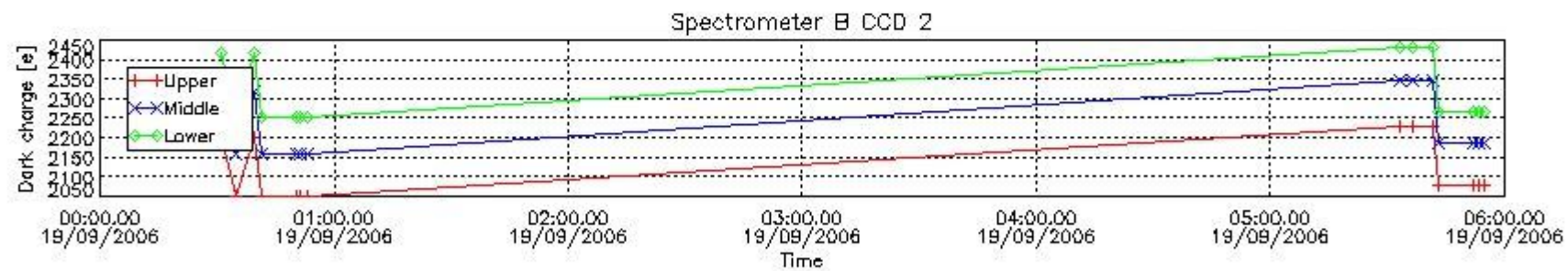
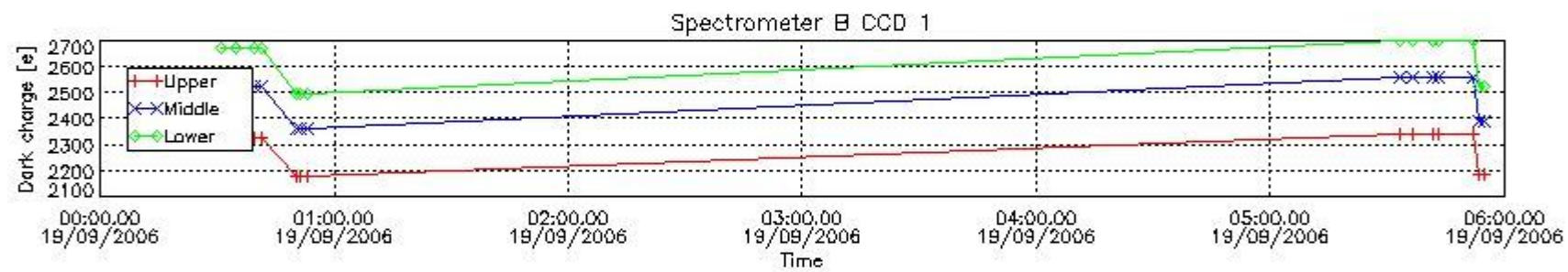
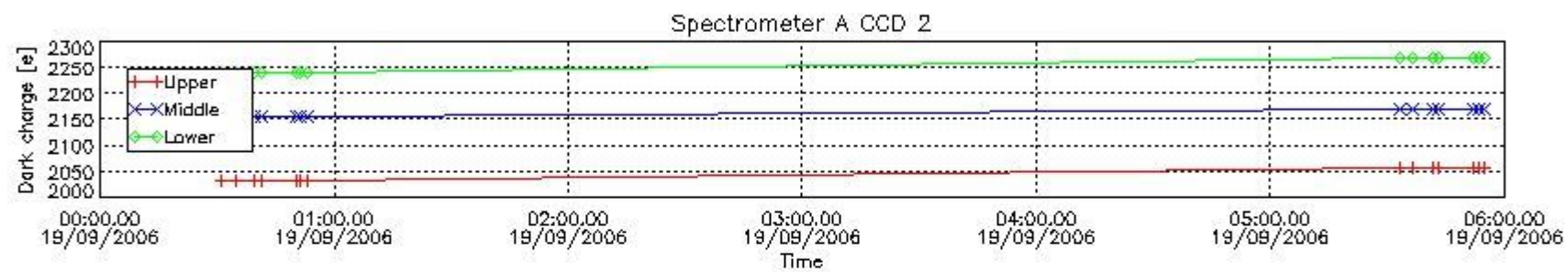
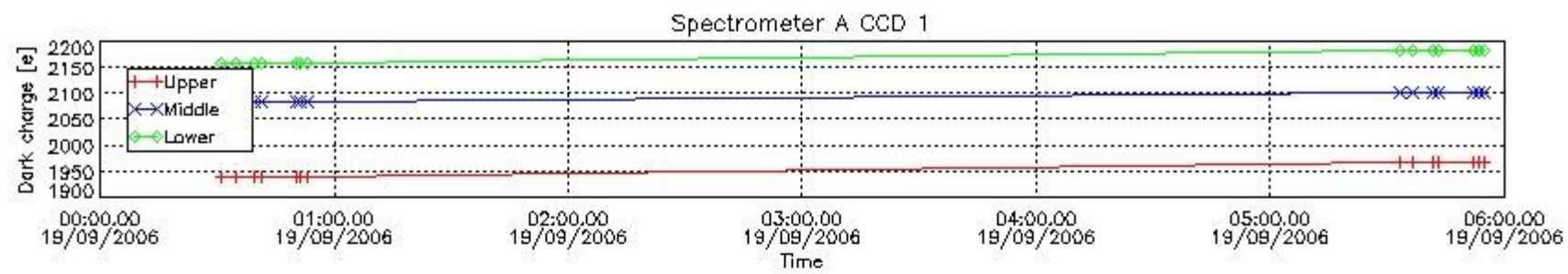
4. Overview of dark signal processing per product

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



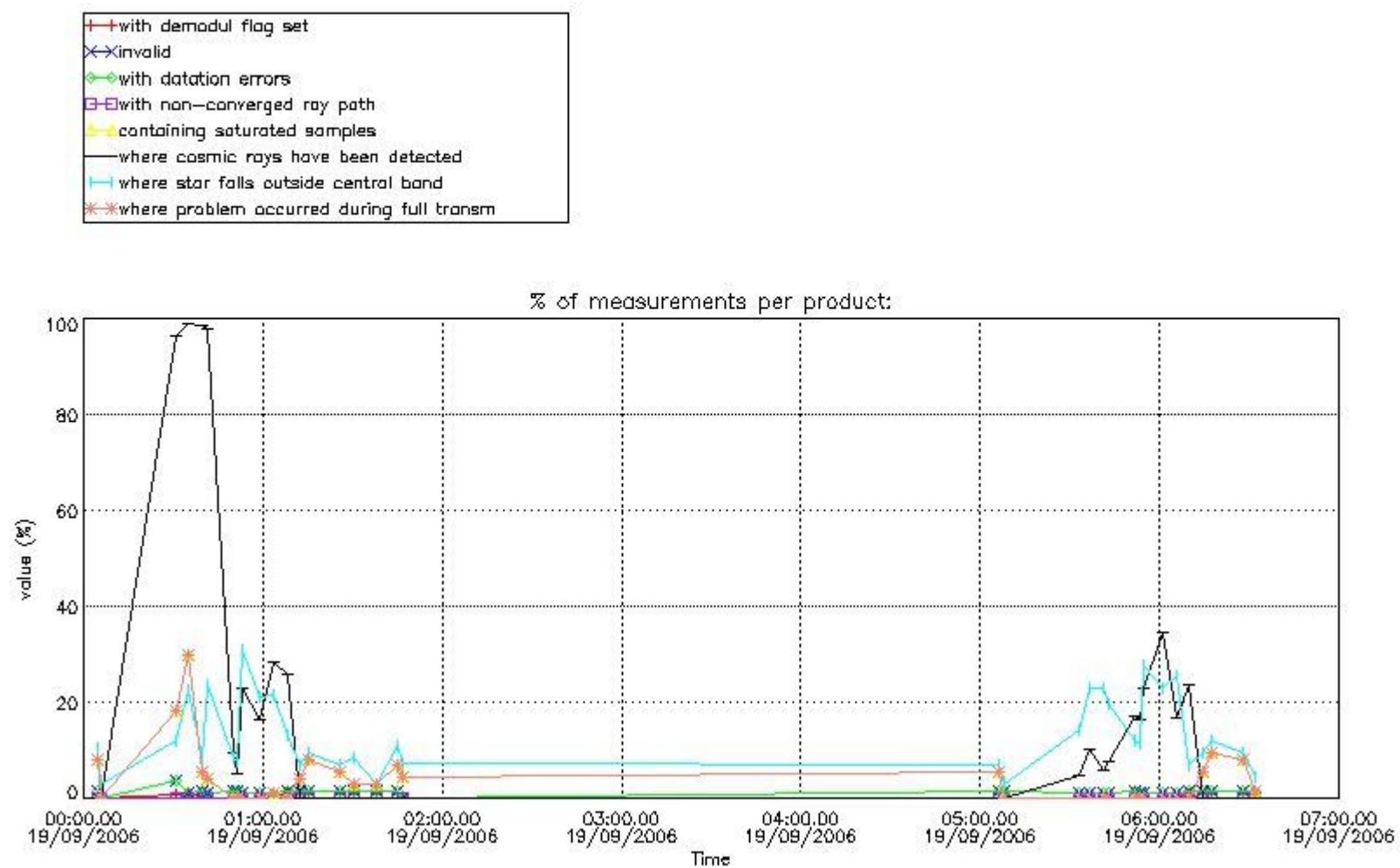
5. Demodulation flag and quality information monitoring

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.

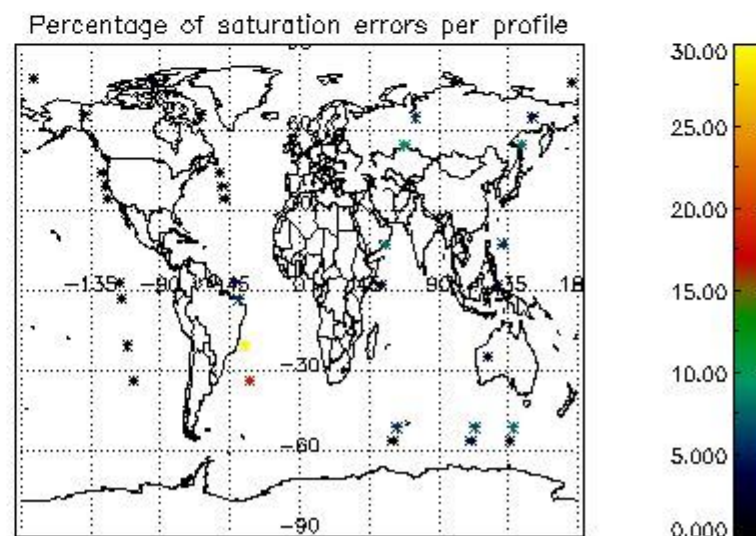
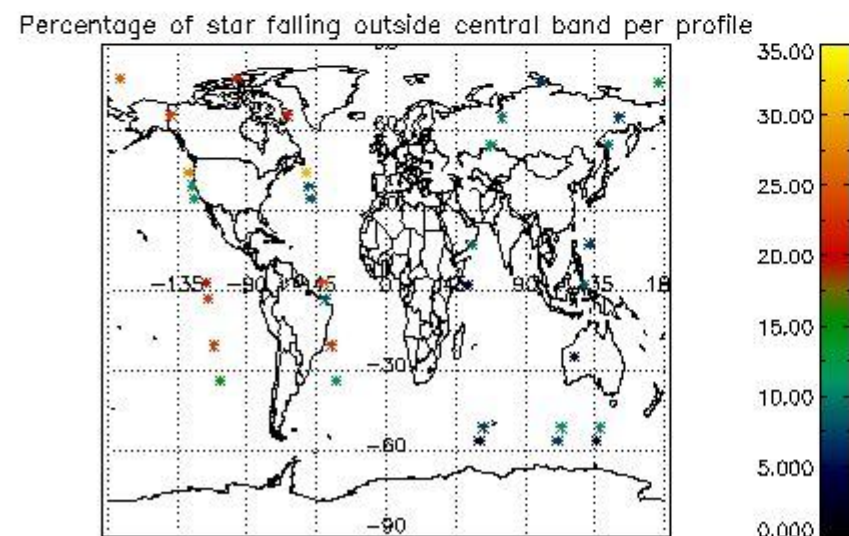
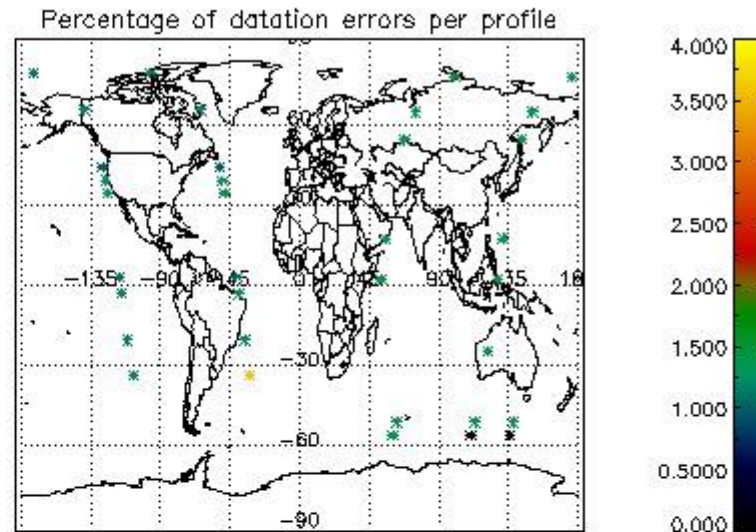
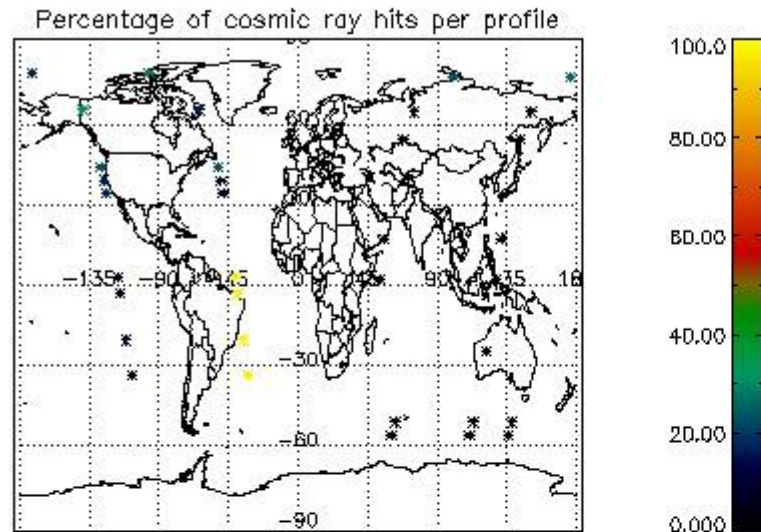
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	17.1429 %
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)



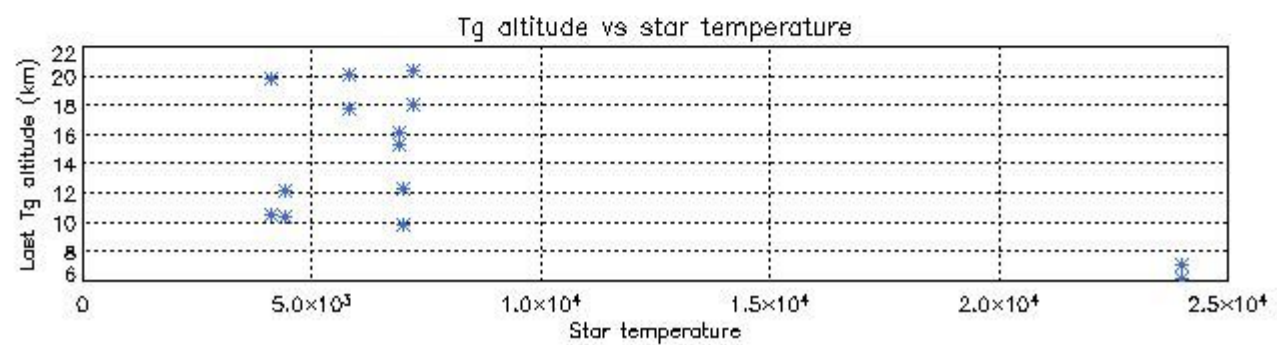
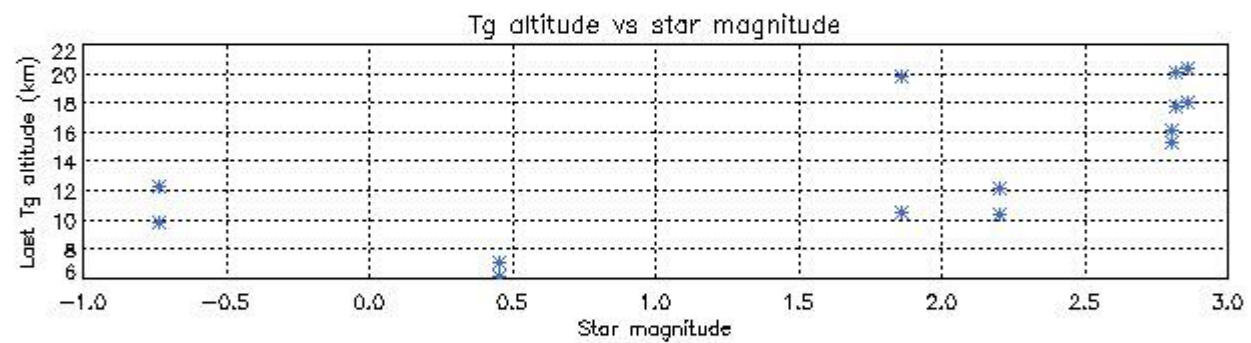
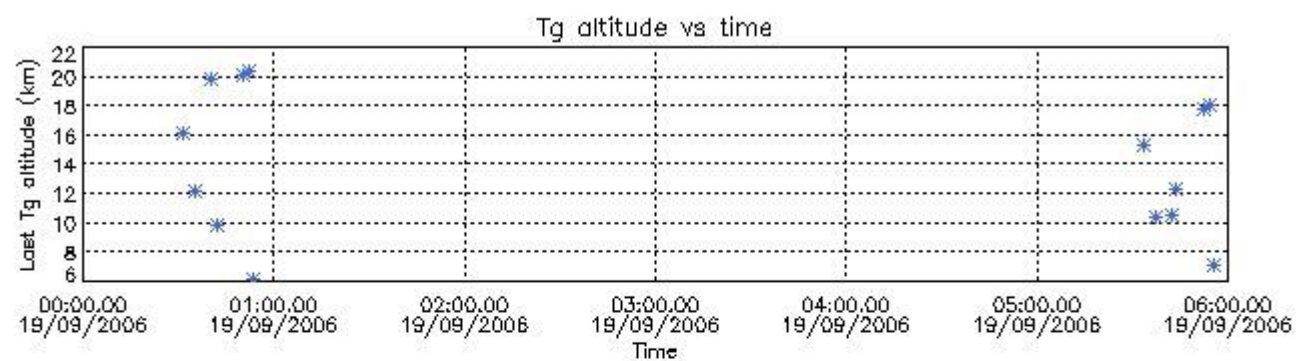
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.993	20.451	NaN
St. deviation:	4.8417	2.5769	NaN
Maximum:	20.294	25.245	NaN
Minimum:	6.1305	16.799	NaN
Number of data:	14.000	15.000	NaN

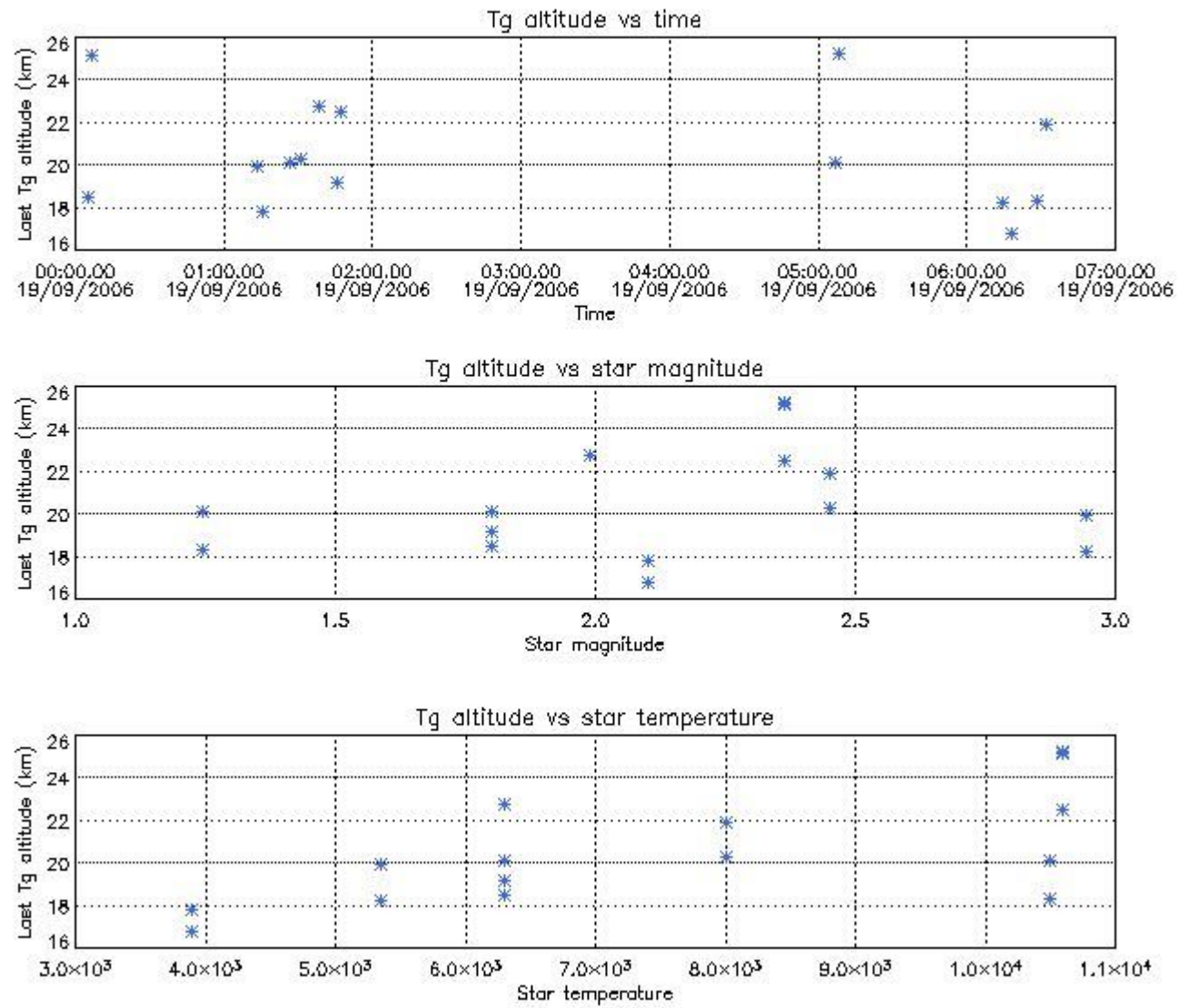
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

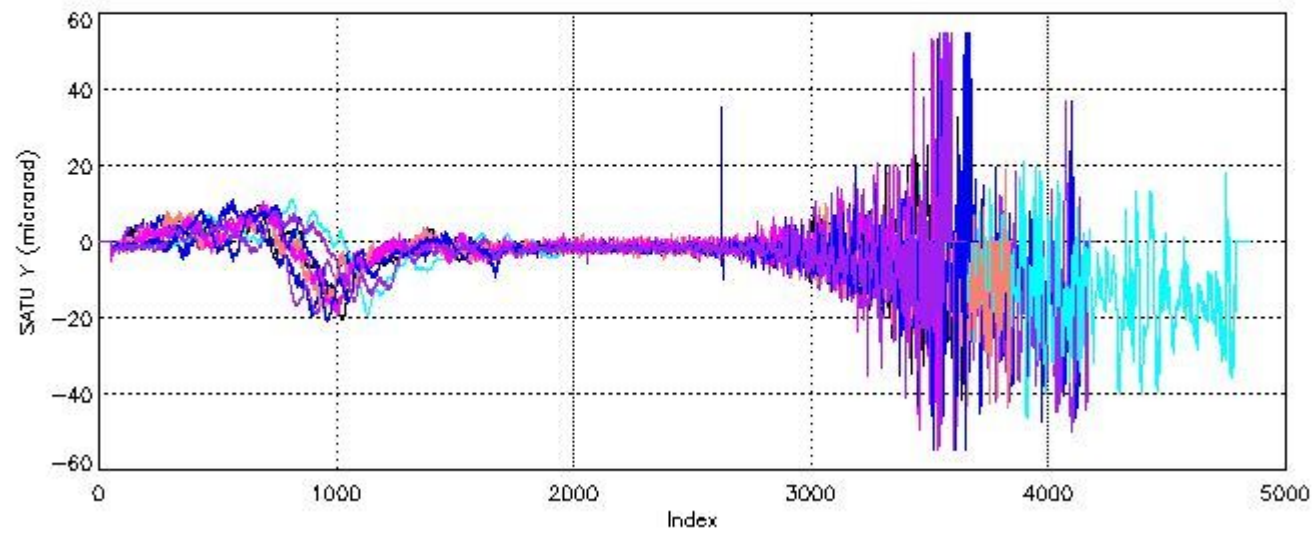
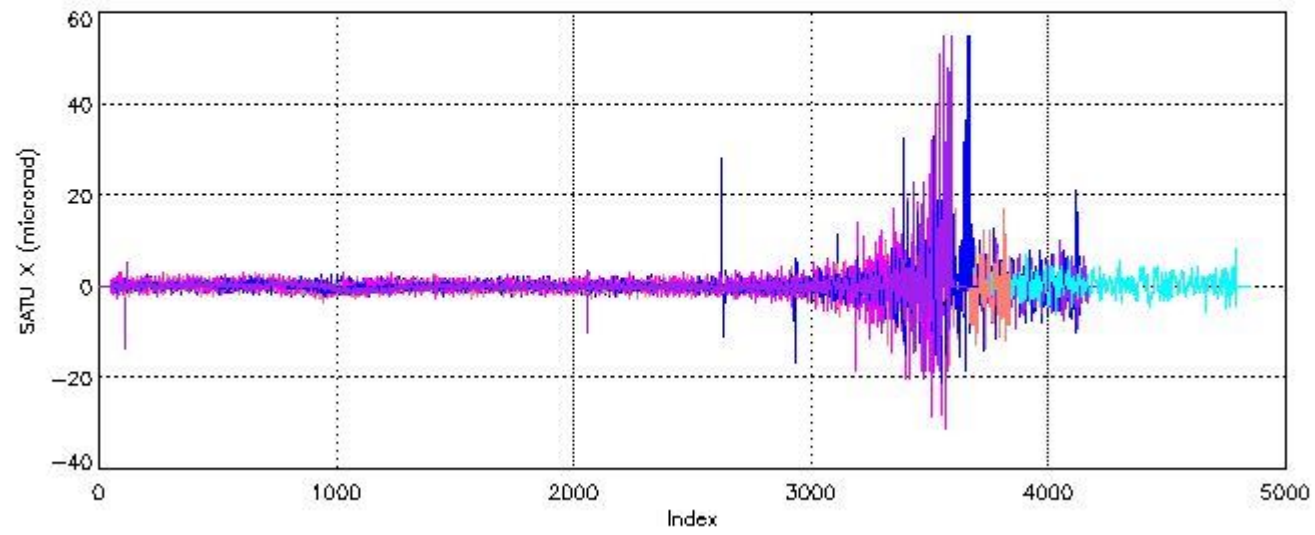


7. Star Acquisition and Tracking Unit (SATU)

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.

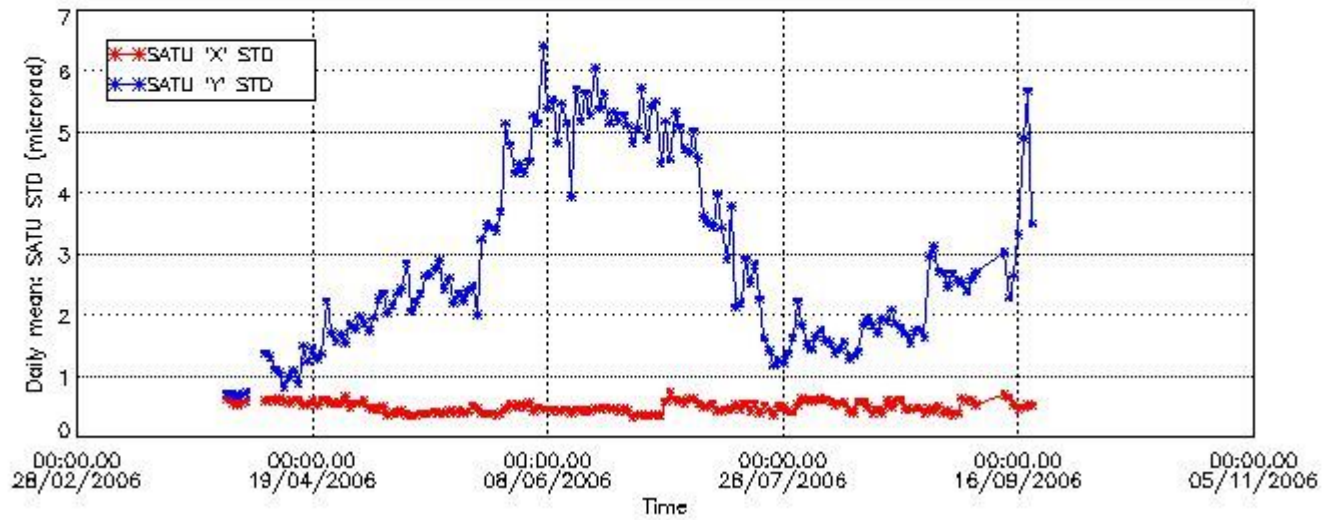
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.16578	1.3669	-0.017565	-0.014154
St. deviation:	0.51087	3.4940	0.74710	4.6583
Maximum:	5.3000	12.800	3.9000	14.000
Minimum:	-0.40000	-3.3000	-2.5000	-4.5000

Number of data:	12550.	12550.	12500.	12500.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

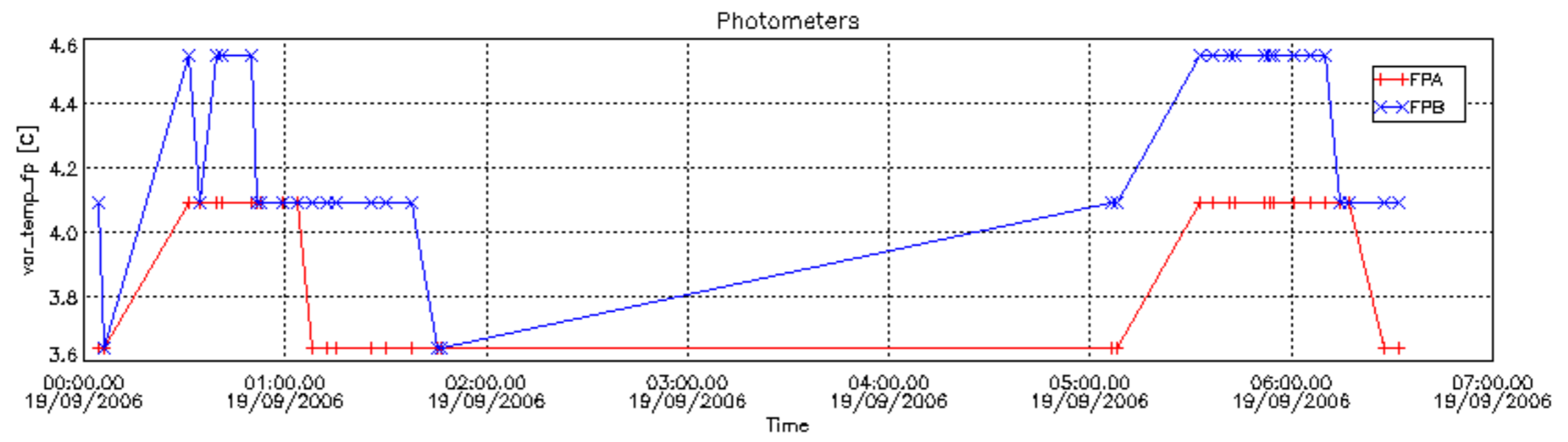
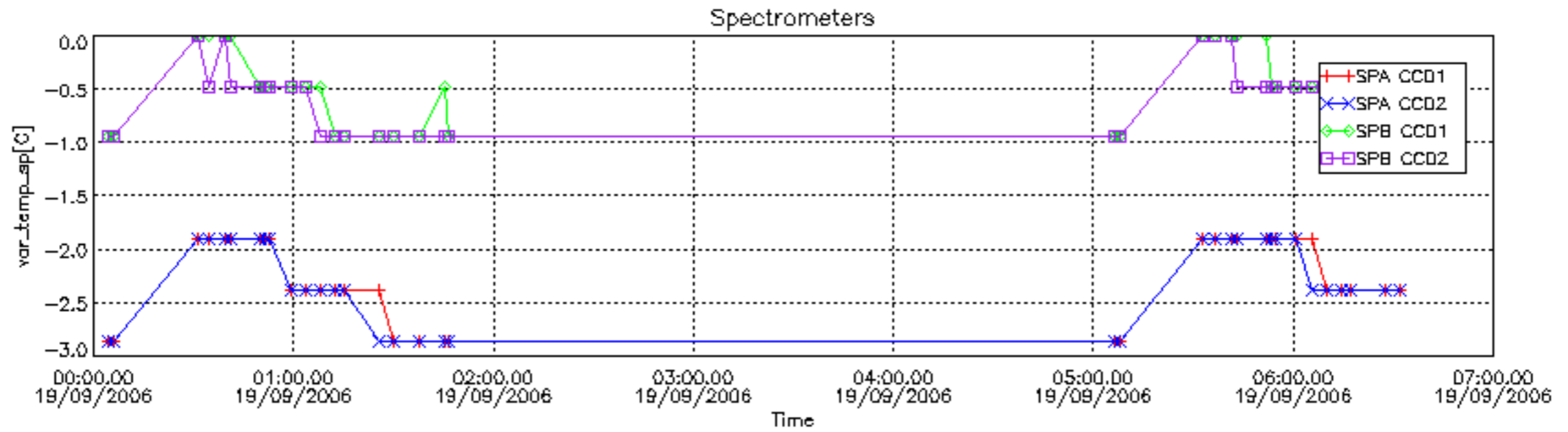
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

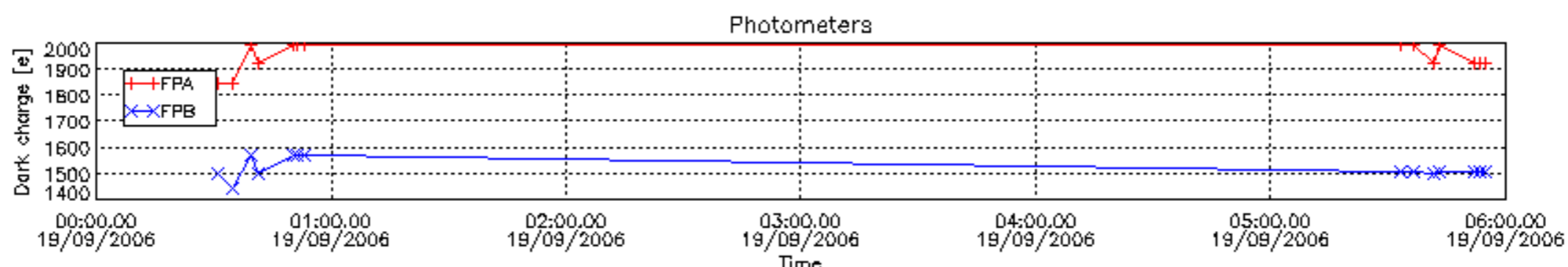
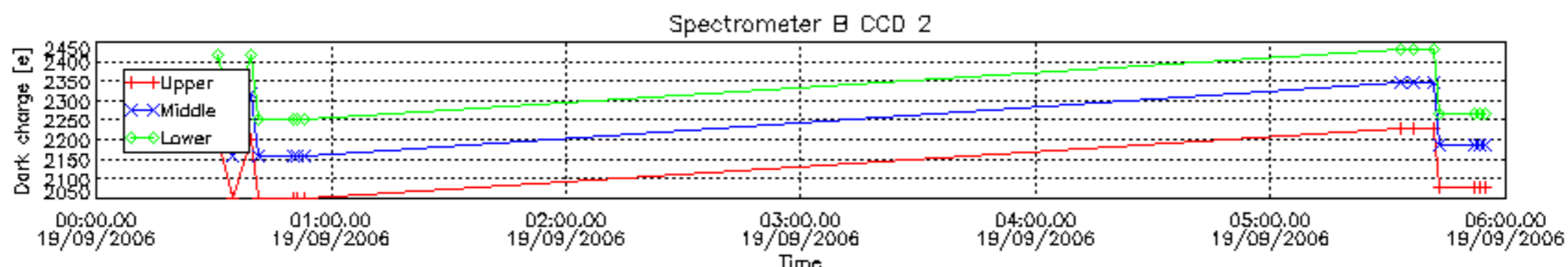
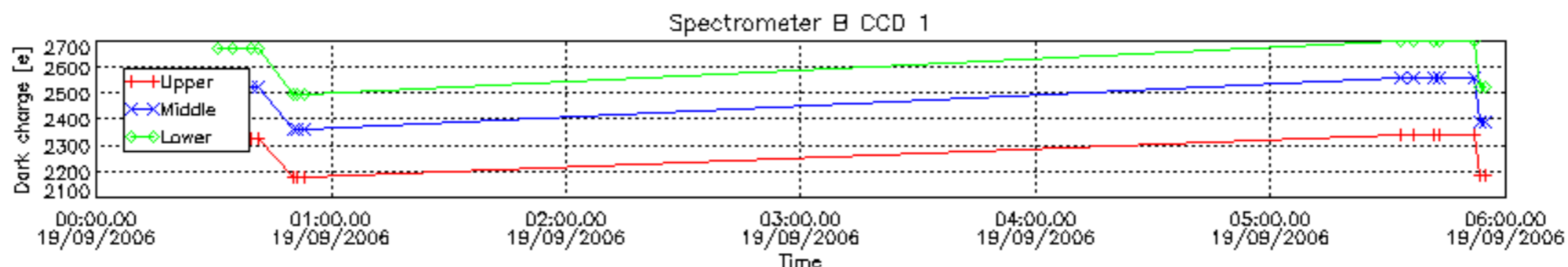
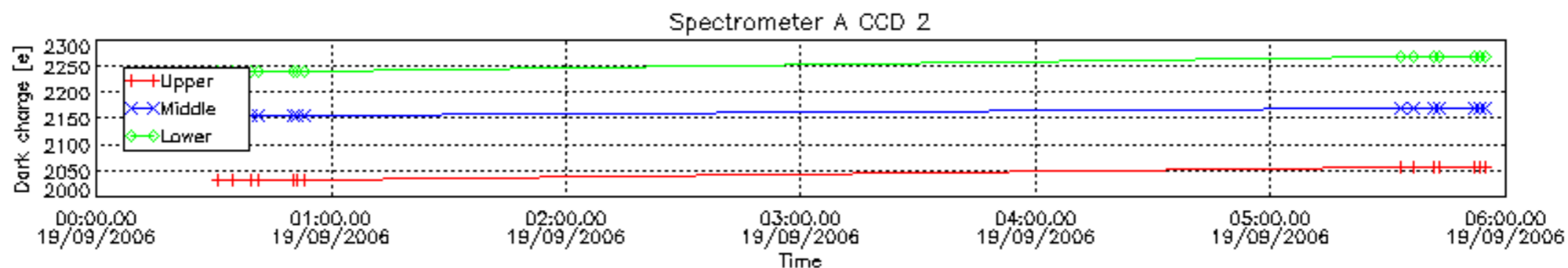
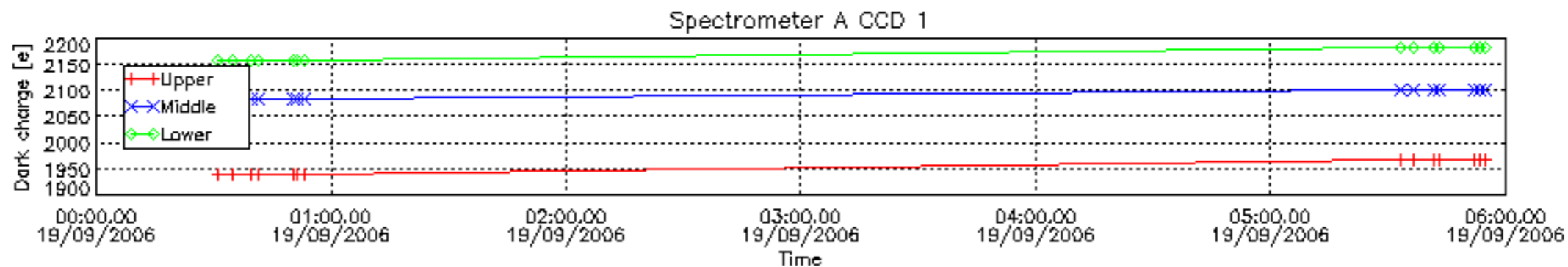


8. Auxiliary Data Files used for the production reported in section 2.2

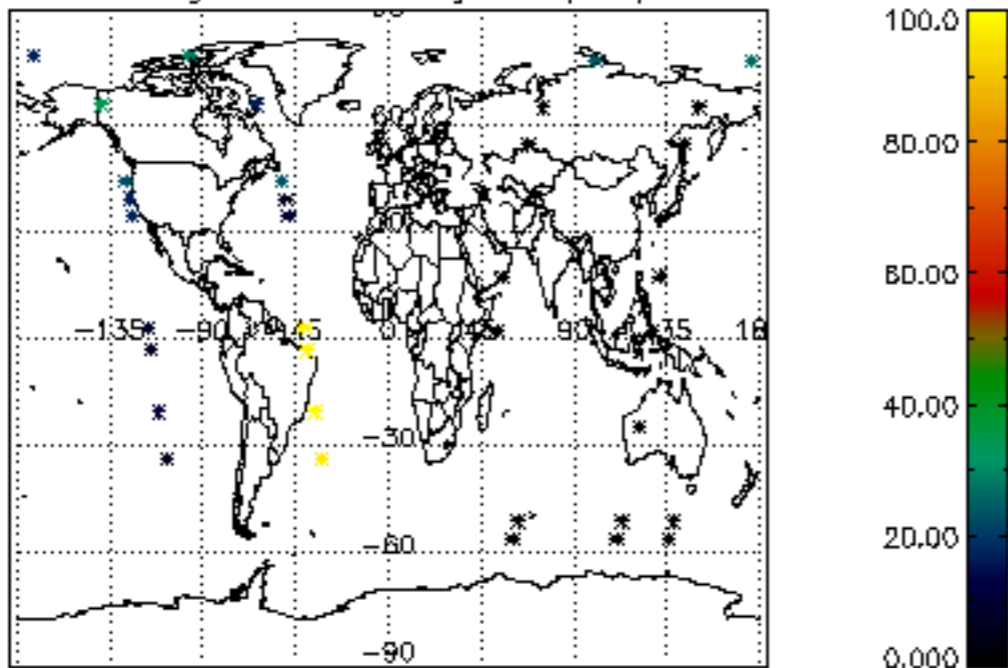
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-SEP-2006 00:04:36
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060904_154109_20060902_000000_20100101_000000	1	19-SEP-2006 00:04:36
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060918_152556_20060916_000000_20100101_000000	3	19-SEP-2006 00:31:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060904_154109_20060902_000000_20100101_000000	4	19-SEP-2006 00:34:48
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060918_152556_20060916_000000_20100101_000000	5	19-SEP-2006 00:39:38
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060904_154109_20060902_000000_20100101_000000	10	19-SEP-2006 00:59:07
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060918_152556_20060916_000000_20100101_000000	11	19-SEP-2006 01:03:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060904_154109_20060902_000000_20100101_000000	16	19-SEP-2006 01:30:08
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060918_152556_20060916_000000_20100101_000000	17	19-SEP-2006 01:37:44
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-SEP-2006 00:04:36
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-SEP-2006 00:04:36
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-SEP-2006 00:04:36
ECMWF_FILE	AUX_ECF_AXNECM20060918_062540_20060918_210000_20060919_090000	1	19-SEP-2006 00:04:36
ECMWF_FILE	AUX_ECA_AXNECM20060919_060817_20060918_210000_20060919_090000	3	19-SEP-2006 00:31:06
ECMWF_FILE	AUX_ECF_AXNECM20060918_062540_20060918_210000_20060919_090000	4	19-SEP-2006 00:34:48
ECMWF_FILE	AUX_ECA_AXNECM20060919_060817_20060918_210000_20060919_090000	5	19-SEP-2006 00:39:38
ECMWF_FILE	AUX_ECF_AXNECM20060918_062540_20060918_210000_20060919_090000	10	19-SEP-2006 00:59:07
ECMWF_FILE	AUX_ECA_AXNECM20060919_060817_20060918_210000_20060919_090000	11	19-SEP-2006 01:03:42
ECMWF_FILE	AUX_ECF_AXNECM20060918_062540_20060918_210000_20060919_090000	16	19-SEP-2006 01:30:08
ECMWF_FILE	AUX_ECA_AXNECM20060919_060817_20060918_210000_20060919_090000	17	19-SEP-2006 01:37:44
OPTIONAL_ECMWF_FILE	MISSING	1	19-SEP-2006 00:04:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060918_205315_000063752051_00200_23801_0586.N1	1	19-SEP-2006 00:04:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060919_002547_000054192051_00202_23803_0588.N1	3	19-SEP-2006 00:31:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060919_050204_000057382051_00205_23806_0591.N1	20	19-SEP-2006 05:06:24

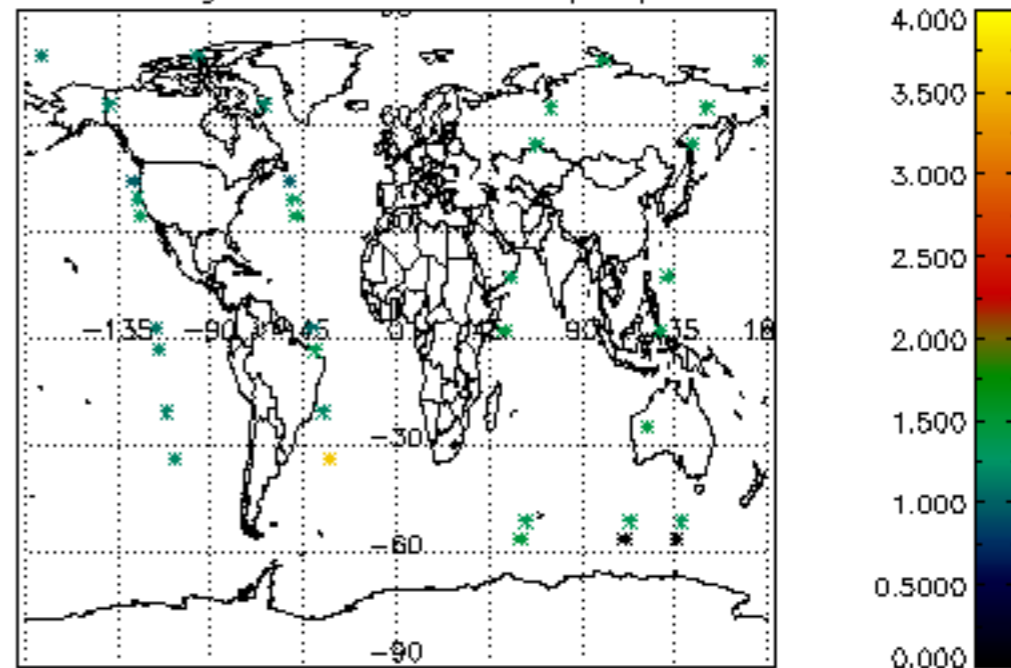




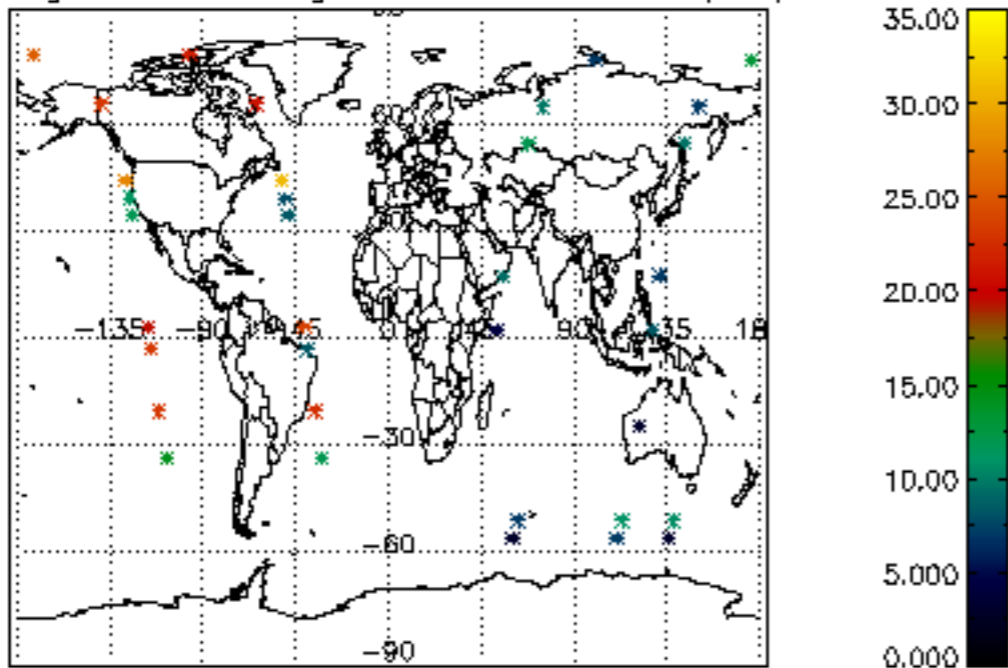
Percentage of cosmic ray hits per profile



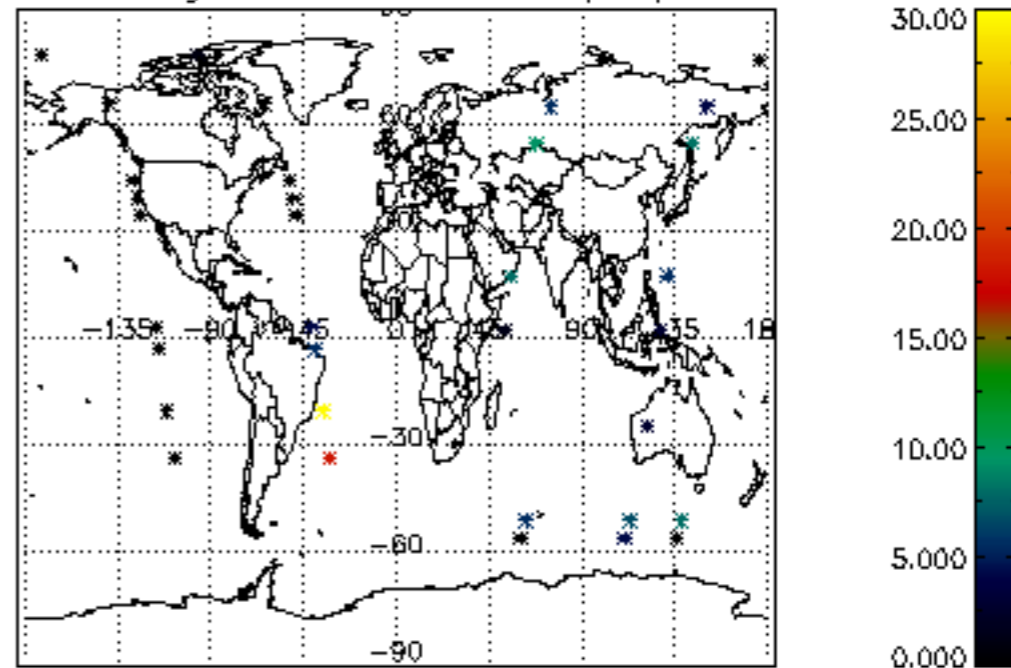
Percentage of datation errors per profile



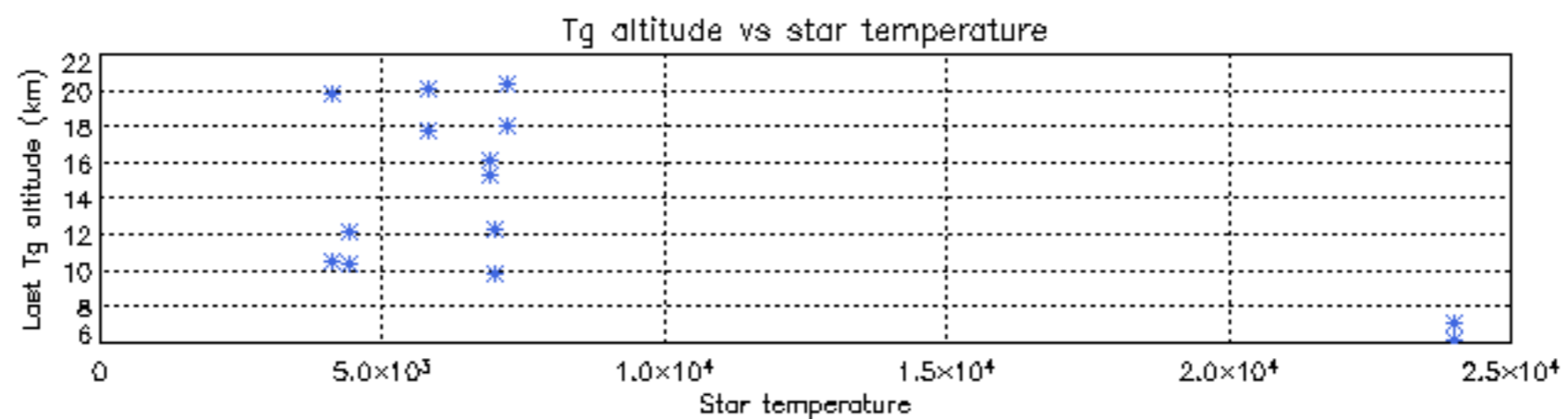
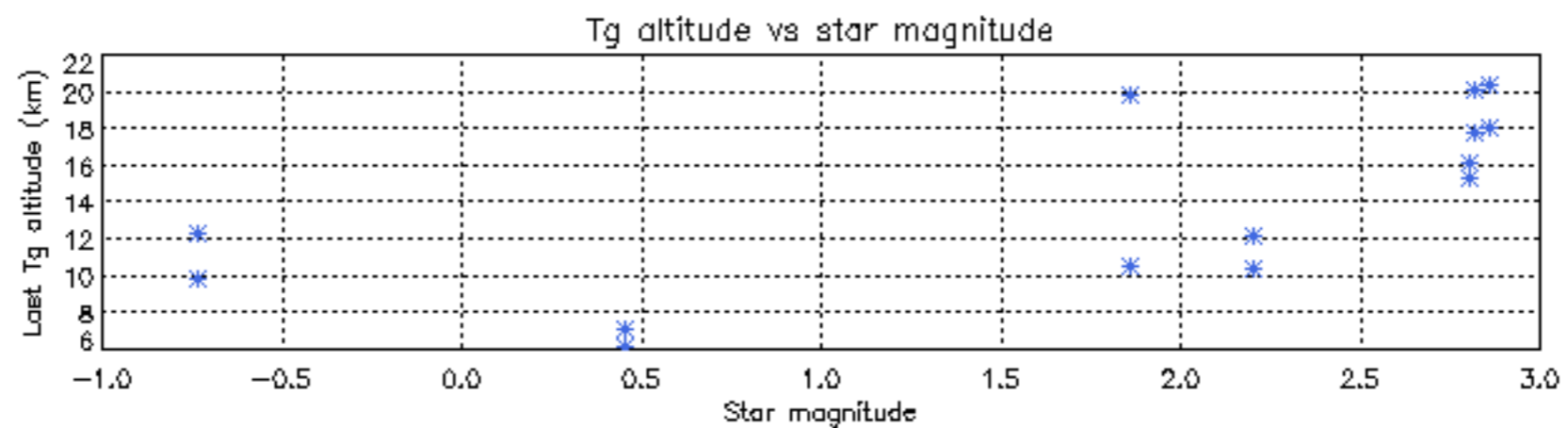
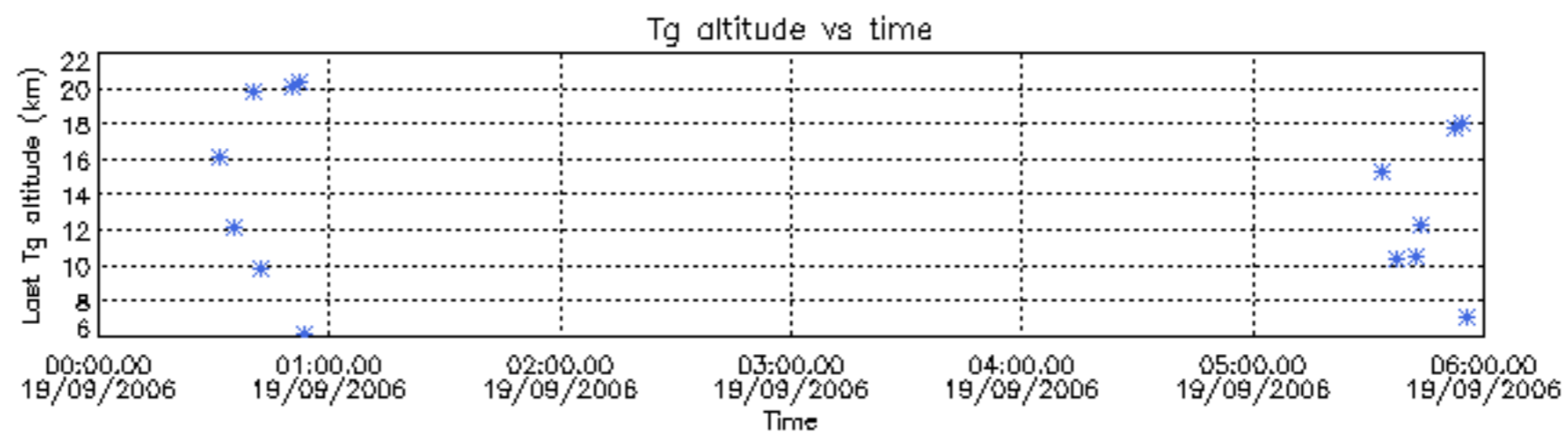
Percentage of star falling outside central band per profile



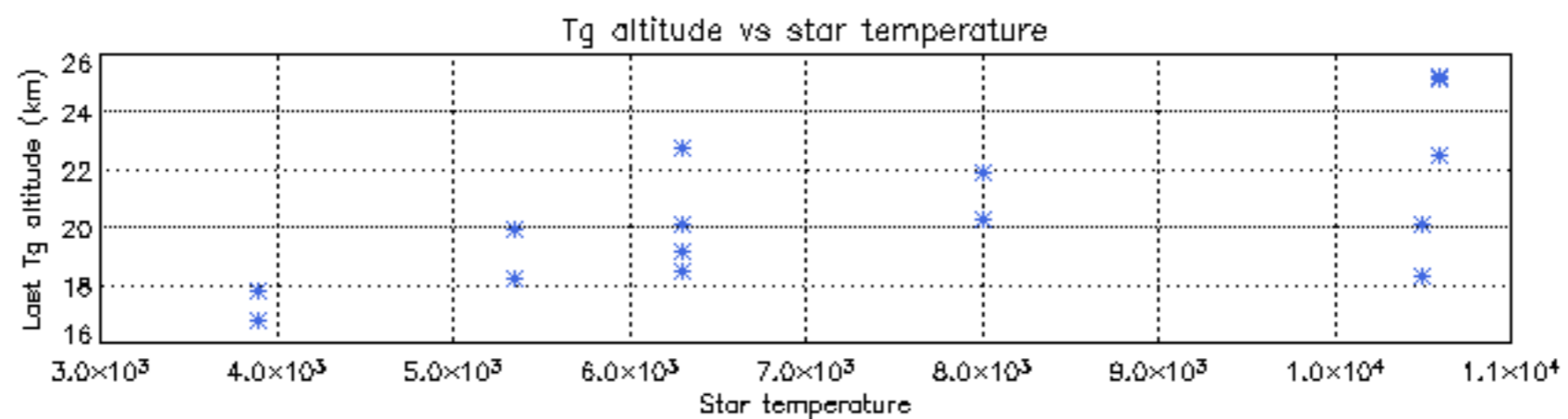
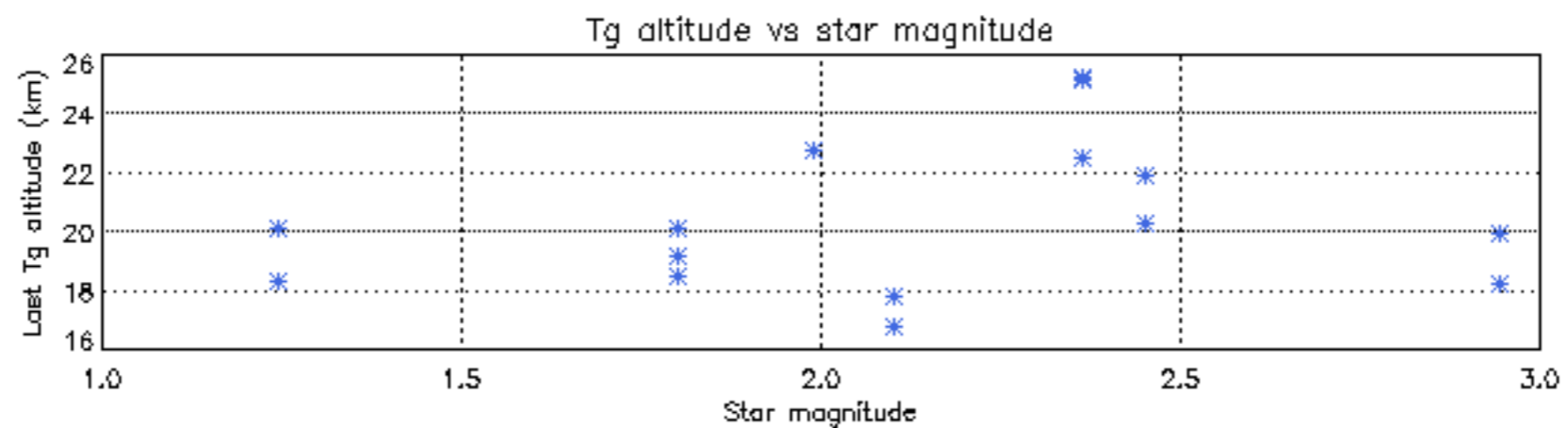
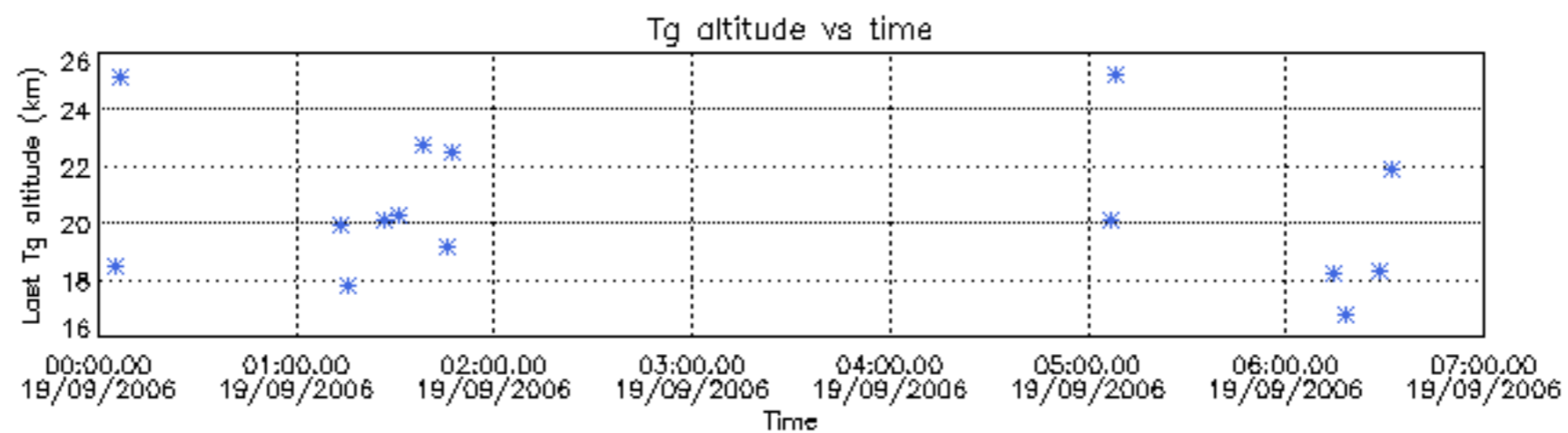
Percentage of saturation errors per profile

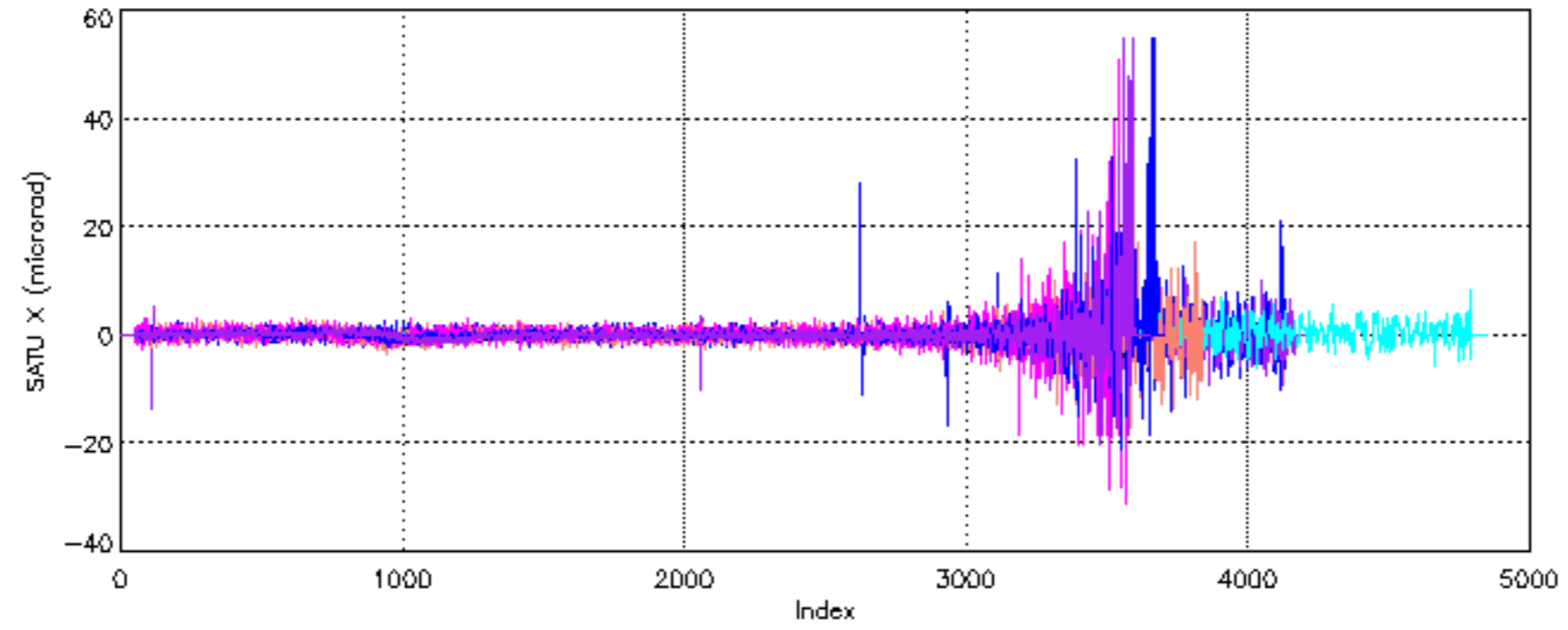


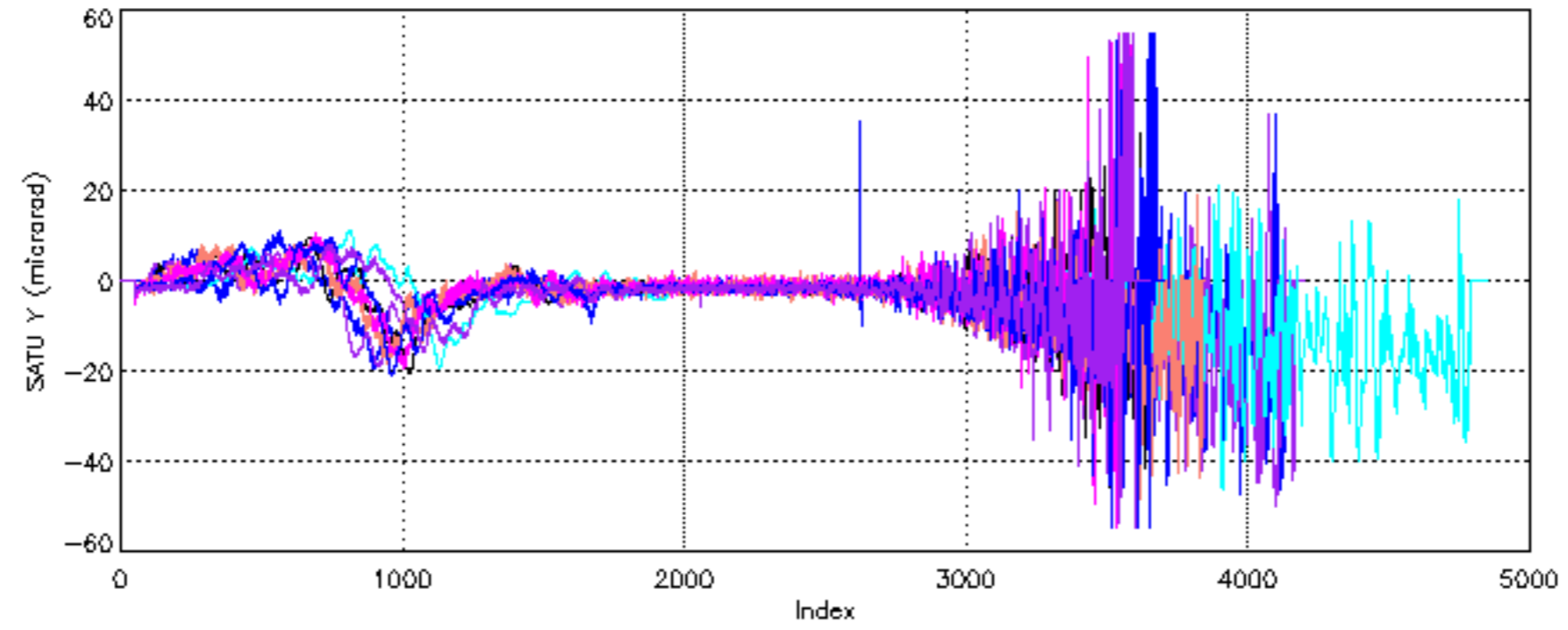
Tangent altitude at which the star is lost

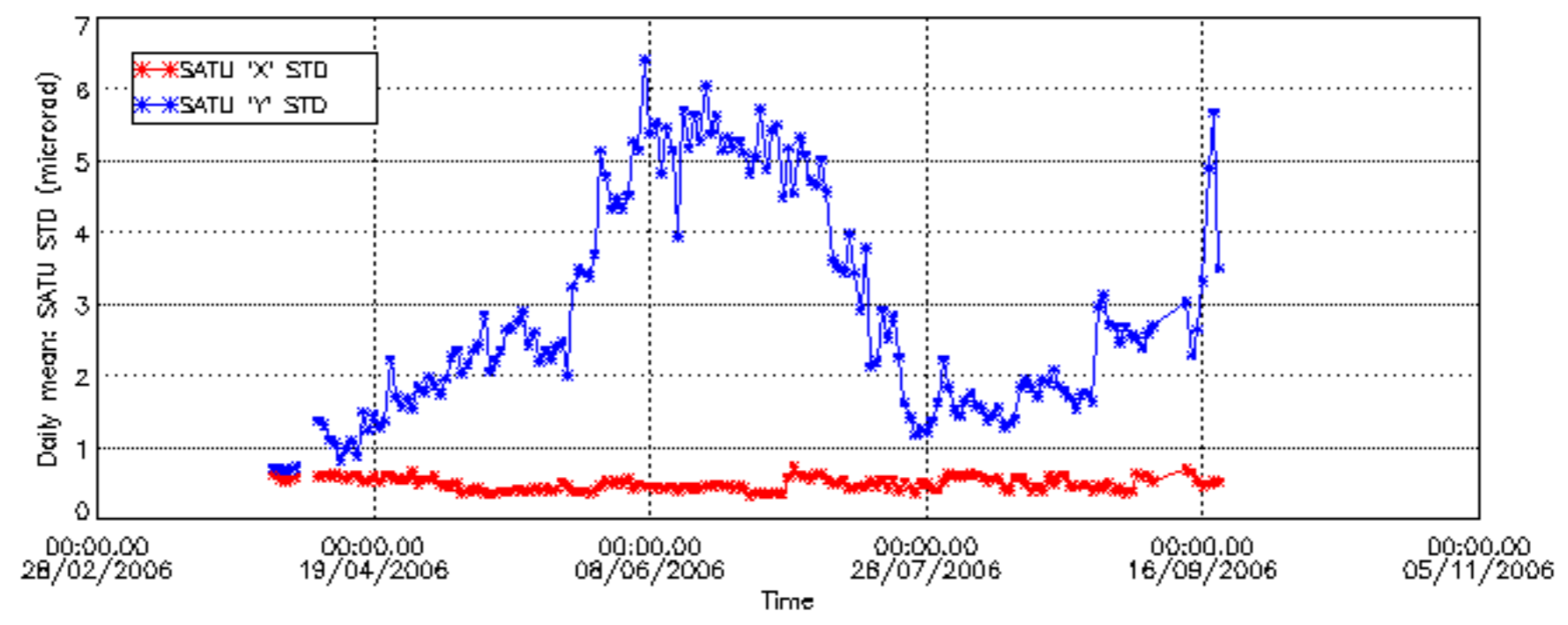


Tangent altitude at which the star is lost









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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
 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
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 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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 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
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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
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 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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 18; 2678.7; 01-SEP-2006 04:11:55; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;23548
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 8; 527.8; 01-SEP-2006 05:16:40; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;23549
 9; 604.8; 01-SEP-2006 05:17:57; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;23549
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 13; 1807.9; 01-SEP-2006 05:38:01; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23549
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 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
13; 2075.5; 01-SEP-2006 22:28:27; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;23559
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16; 2975.0; 02-SEP-2006 00:24:03; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;23560
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18; 4454.6; 02-SEP-2006 00:48:42; Bright; 55.0; 24; 66Alp Gem ; 1.58; 10200;occ; 110; 0;23560
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4; -495.7; 01-SEP-2006 06:40:13; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;23549
5; -400.8; 01-SEP-2006 06:41:48; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;23549
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