

GOMOS Daily Report 24-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	26SEP2006 05:32:16
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (24SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (25SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

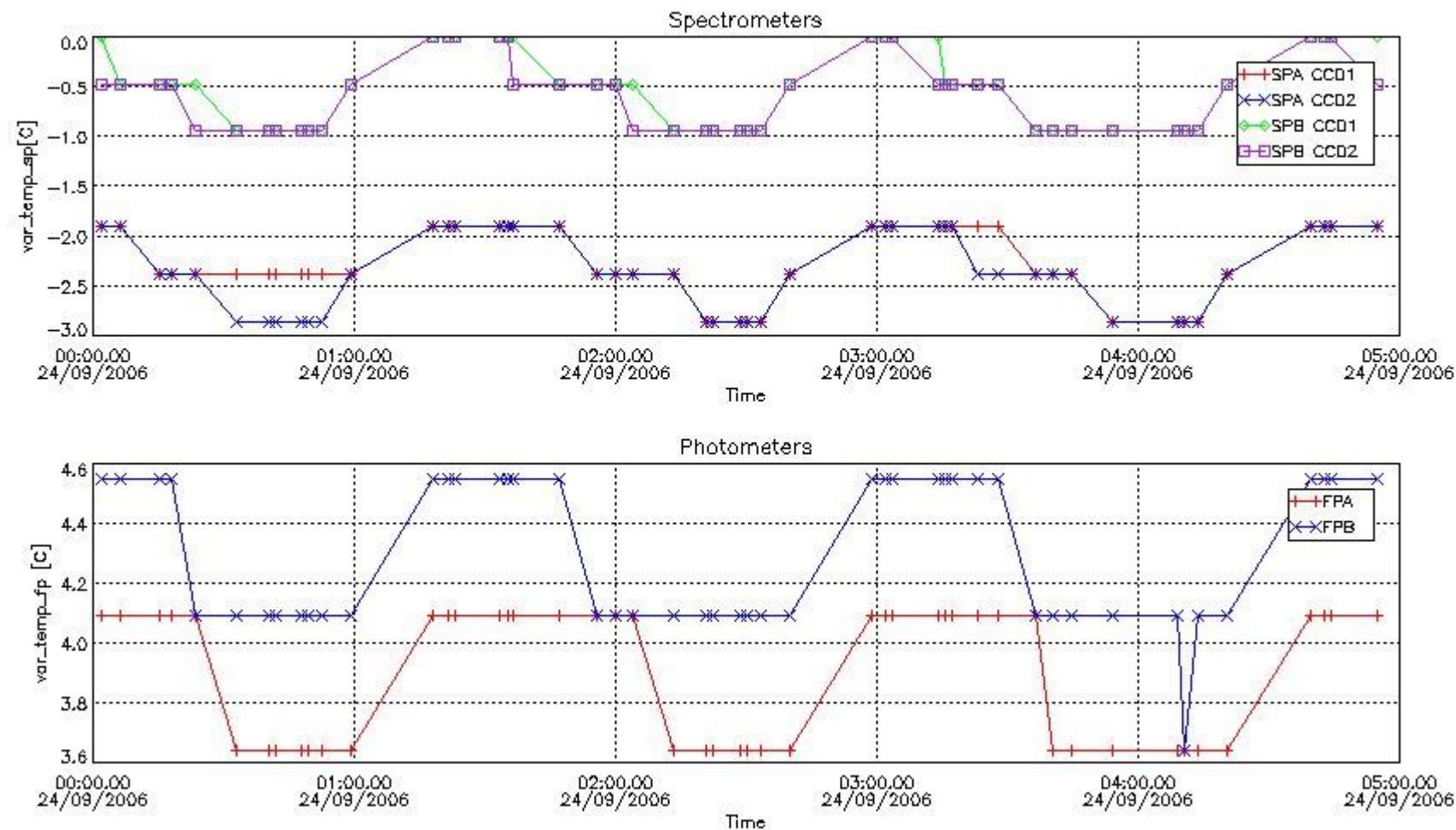
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20060924_000152_000000422051_00274_23875_1400.N1	24-SEP-2006 00:01:52	Straylight	41.500	63	Bet Gru	2.1500	2800.0	83	23875	No
2	GOM_TRA_1PNPDE20060924_000628_000000432051_00274_23875_1401.N1	24-SEP-2006 00:06:28	Straylight	43.000	18	24Alp PsA	1.1660	9700.0	86	23875	No
3	GOM_TRA_1PNPDE20060924_001507_000000372051_00274_23875_1402.N1	24-SEP-2006 00:15:07	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23875	No
4	GOM_TRA_1PNPDE20060924_001811_000000392051_00274_23875_1403.N1	24-SEP-2006 00:18:11	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	23875	No
5	GOM_TRA_1PNPDE20060924_002328_000000372051_00274_23875_1404.N1	24-SEP-2006 00:23:28	Bright	36.500	164	44Eta Peg	2.9480	5400.0	73	23875	No
6	GOM_TRA_1PNPDE20060924_003248_000000522051_00274_23875_1405.N1	24-SEP-2006 00:32:48	Bright	52.000	89	5Alp Cep	2.4510	8000.0	104	23875	No
7	GOM_TRA_1PNPDE20060924_004015_000000322051_00274_23875_1406.N1	24-SEP-2006 00:40:15	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	23875	No
8	GOM_TRA_1PNPDE20060924_004147_000000342051_00274_23875_1407.N1	24-SEP-2006 00:41:47	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	23875	No
9	GOM_TRA_1PNPDE20060924_004756_000000372051_00274_23875_1408.N1	24-SEP-2006 00:47:56	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	23875	No
10	GOM_TRA_1PNPDE20060924_004925_000000352051_00274_23875_1409.N1	24-SEP-2006 00:49:25	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	23875	No
11	GOM_TRA_1PNPDE20060924_005234_000000352051_00274_23875_1410.N1	24-SEP-2006 00:52:34	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	23875	No
12	GOM_TRA_1PNPDE20060924_005913_000000342051_00274_23875_1411.N1	24-SEP-2006 00:59:13	Bright	33.500	166	17Eps Leo	2.9800	6000.0	67	23875	No
13	GOM_TRA_1PNPDE20060924_011813_000000452051_00274_23875_1398.N1	24-SEP-2006 01:18:13	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	23875	No
14	GOM_TRA_1PNPDE20060924_012132_000000382051_00274_23875_1399.N1	24-SEP-2006 01:21:32	Dark	38.000	46	Del Vel	1.9540	10600.	76	23875	No
15	GOM_TRA_1PNPDE20060924_012306_000000422051_00274_23875_1400.N1	24-SEP-2006 01:23:06	Dark	41.500	41	Eps Car	1.8600	4100.0	83	23875	No
16	GOM_TRA_1PNPDE20060924_013331_000000372051_00275_23876_1401.N1	24-SEP-2006 01:33:31	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	23876	No
17	GOM_TRA_1PNPDE20060924_013511_000000392051_00275_23876_1402.N1	24-SEP-2006 01:35:11	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	23876	No
18	GOM_TRA_1PNPDE20060924_013638_000000462051_00275_23876_1403.N1	24-SEP-2006 01:36:38	Dark	46.000	9	Alp Eri	0.45300	24000.	92	23876	No
19	GOM_TRA_1PNPDE20060924_014704_000000452051_00275_23876_1405.N1	24-SEP-2006 01:47:04	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	23876	No
20	GOM_TRA_1PNPDE20060924_015543_000000372051_00275_23876_1406.N1	24-SEP-2006 01:55:43	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23876	No
21	GOM_TRA_1PNPDE20060924_015948_000000252051_00275_23876_1407.N1	24-SEP-2006 01:59:48	Twi_and_stray	25.000	90	54Alp Peg	2.4870	11000.	50	23876	No
22	GOM_TRA_1PNPDE20060924_020404_000000362051_00275_23876_1408.N1	24-SEP-2006 02:04:04	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	23876	No
23	GOM_TRA_1PNPDE20060924_021324_000000352051_00275_23876_1409.N1	24-SEP-2006 02:13:24	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23876	No
24	GOM_TRA_1PNPDE20060924_022051_000000352051_00275_23876_1410.N1	24-SEP-2006 02:20:51	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	23876	No
25	GOM_TRA_1PNPDE20060924_022223_000000372051_00275_23876_1411.N1	24-SEP-2006 02:22:23	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	23876	No
26	GOM_TRA_1PNPDE20060924_022833_000000362051_00275_23876_1400.N1	24-SEP-2006 02:28:33	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	23876	No
27	GOM_TRA_1PNPDE20060924_023001_000000362051_00275_23876_1401.N1	24-SEP-2006 02:30:01	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	23876	No
28	GOM_TRA_1PNPDE20060924_023311_000000352051_00275_23876_1402.N1	24-SEP-2006 02:33:11	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	23876	No
29	GOM_TRA_1PNPDE20060924_023950_000000342051_00275_23876_1403.N1	24-SEP-2006 02:39:50	Bright	33.500	166	17Eps Leo	2.9800	6000.0	67	23876	No
30	GOM_TRA_1PNPDE20060924_025849_000000432051_00275_23876_1404.N1	24-SEP-2006 02:58:49	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	23876	No
31	GOM_TRA_1PNPDE20060924_030208_000000362051_00275_23876_1405.N1	24-SEP-2006 03:02:08	Dark	35.500	46	Del Vel	1.9540	10600.	71	23876	No
32	GOM_TRA_1PNPDE20060924_030342_000000492051_00275_23876_1406.N1	24-SEP-2006 03:03:42	Dark	49.000	41	Eps Car	1.8600	4100.0	98	23876	No
33	GOM_TRA_1PNPDE20060924_031407_000000372051_00276_23877_1407.N1	24-SEP-2006 03:14:07	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23877	No
34	GOM_TRA_1PNPDE20060924_031547_000000382051_00276_23877_1408.N1	24-SEP-2006 03:15:47	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	23877	No
35	GOM_TRA_1PNPDE20060924_031715_000000512051_00276_23877_1409.N1	24-SEP-2006 03:17:15	Dark	51.000	9	Alp Eri	0.45300	24000.	102	23877	No
36	GOM_TRA_1PNPDE20060924_032304_000000502051_00276_23877_1407.N1	24-SEP-2006 03:23:04	Straylight	50.000	63	Bet Gru	2.1500	2800.0	100	23877	No
37	GOM_TRA_1PNPDE20060924_032740_000000452051_00276_23877_1411.N1	24-SEP-2006 03:27:40	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	23877	No
38	GOM_TRA_1PNPDE20060924_033619_000000372051_00276_23877_1412.N1	24-SEP-2006 03:36:19	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23877	No
39	GOM_TRA_1PNPDE20060924_034024_000000252051_00276_23877_1413.N1	24-SEP-2006 03:40:24	Twi_and_stray	25.000	90	54Alp Peg	2.4870	11000.	50	23877	No
40	GOM_TRA_1PNPDE20060924_034440_000000382051_00276_23877_1414.N1	24-SEP-2006 03:44:40	Bright	37.500	164	44Eta Peg	2.9480	5400.0	75	23877	No
41	GOM_TRA_1PNPDE20060924_035400_000000352051_00276_23877_1412.N1	24-SEP-2006 03:54:00	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23877	No
42	GOM_TRA_1PNPDE20060924_040909_000000372051_00276_23877_1401.N1	24-SEP-2006 04:09:09	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	23877	No

43	GOM_TRA_1PNPDE20060924_041037_000000362051_00276_23877_1402.N1	24-SEP-2006 04:10:37	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	23877	No
44	GOM_TRA_1PNPDE20060924_041346_000000362051_00276_23877_1403.N1	24-SEP-2006 04:13:46	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	23877	No
45	GOM_TRA_1PNPDE20060924_042026_000000342051_00276_23877_1404.N1	24-SEP-2006 04:20:26	Bright	33.500	166	17Eps Leo	2.9800	6000.0	67	23877	No
46	GOM_TRA_1PNPDE20060924_043926_000000452051_00276_23877_1405.N1	24-SEP-2006 04:39:26	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	23877	No
47	GOM_TRA_1PNPDE20060924_044244_000000382051_00276_23877_1406.N1	24-SEP-2006 04:42:44	Dark	38.000	46	Del Vel	1.9540	10600.	76	23877	No
48	GOM_TRA_1PNPDE20060924_044419_000000412051_00276_23877_1407.N1	24-SEP-2006 04:44:19	Dark	40.500	41	Eps Car	1.8600	4100.0	81	23877	No
49	GOM_TRA_1PNPDE20060924_045443_000000372051_00277_23878_1408.N1	24-SEP-2006 04:54:43	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	23878	No

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



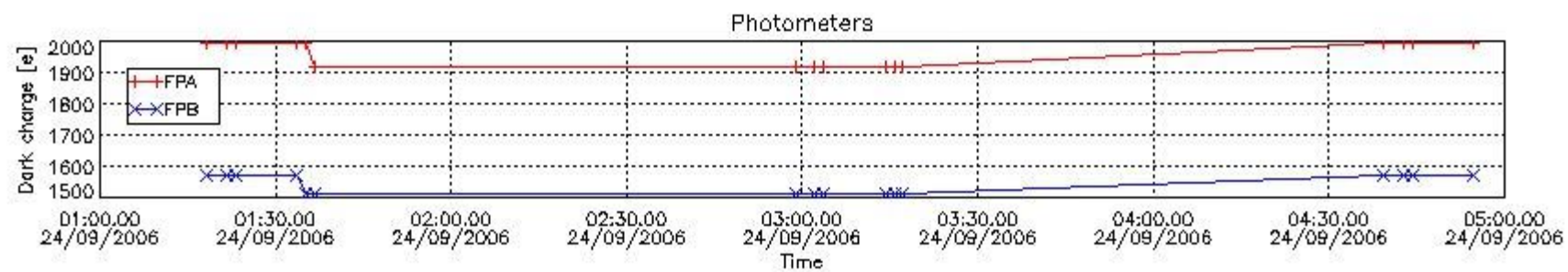
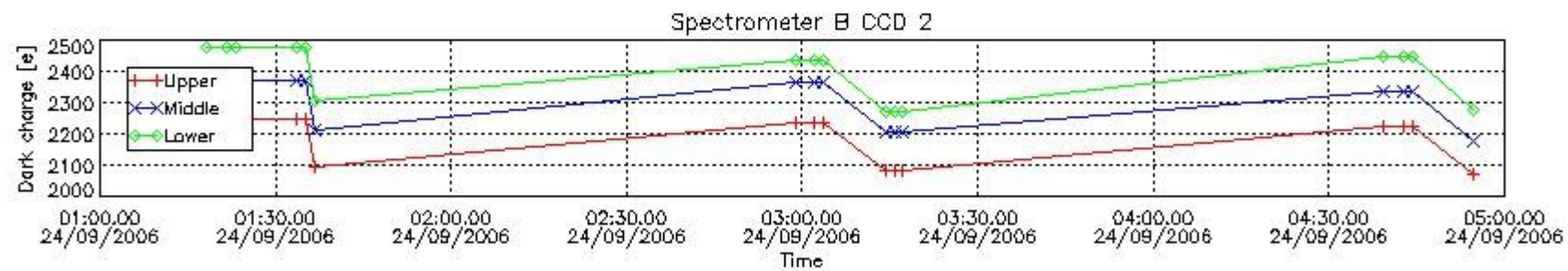
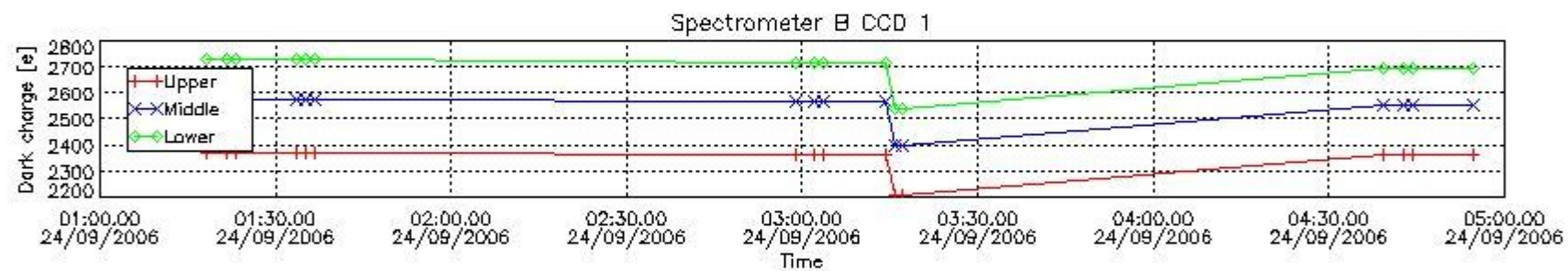
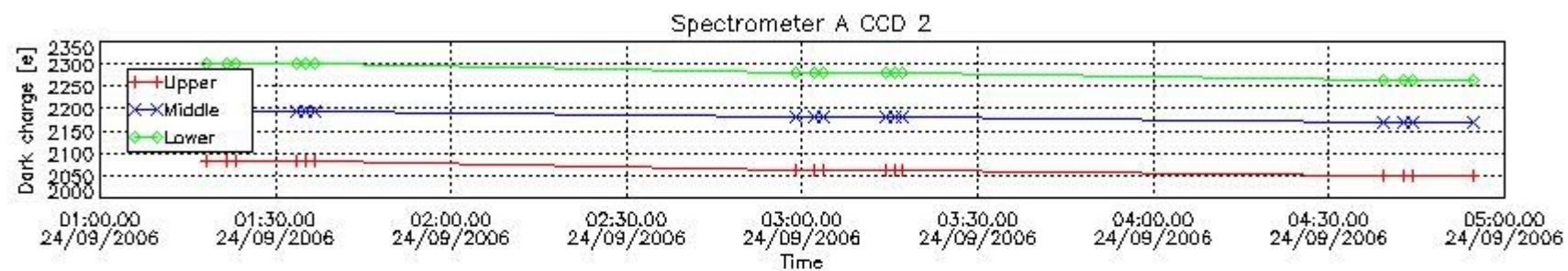
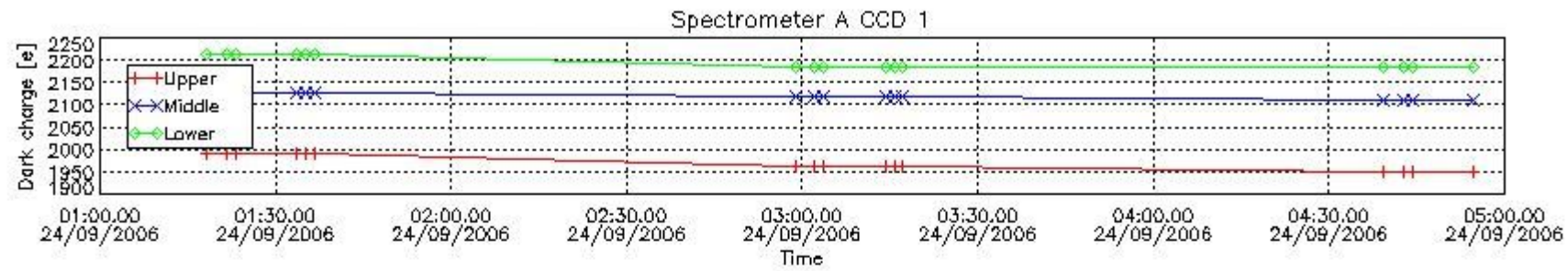
4. Overview of dark signal processing per product

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



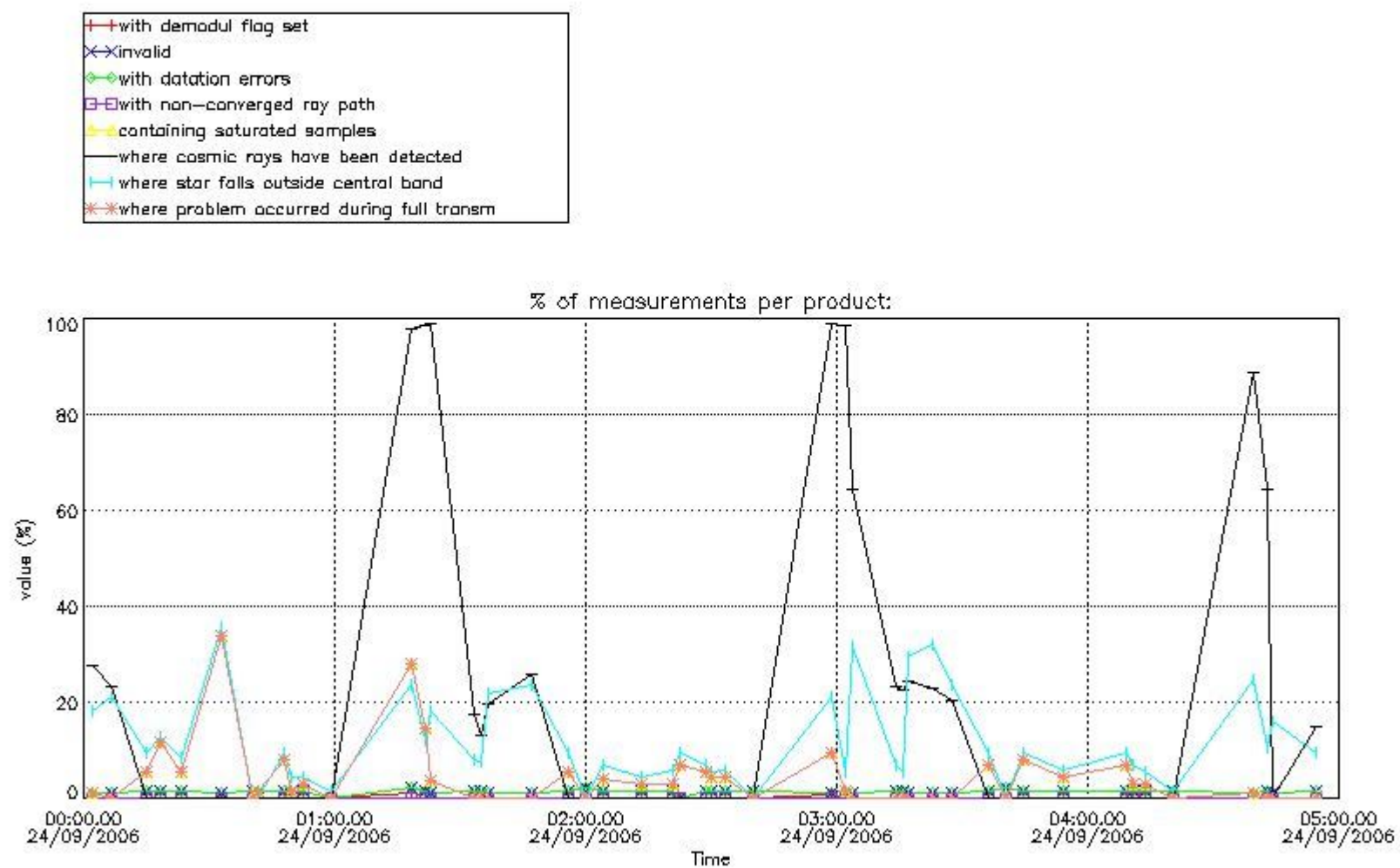
5. Demodulation flag and quality information monitoring

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.

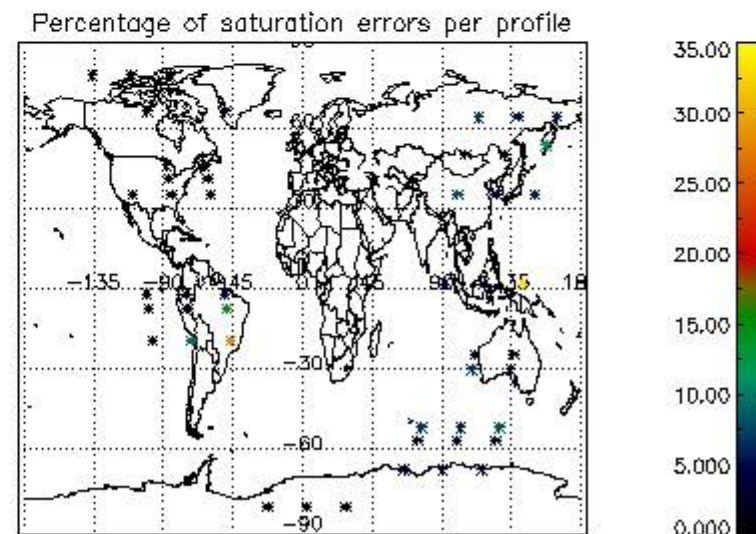
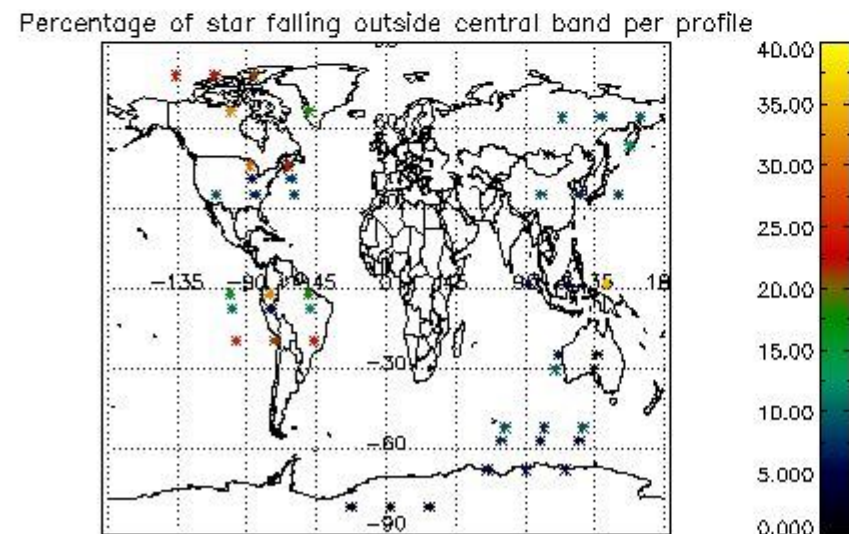
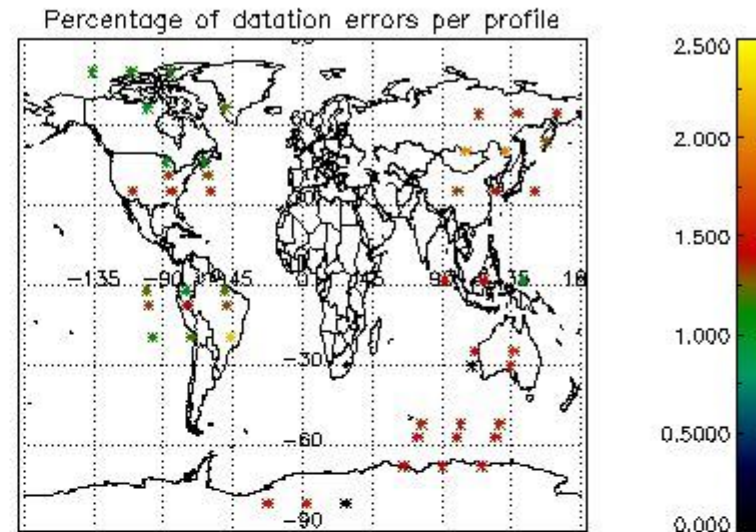
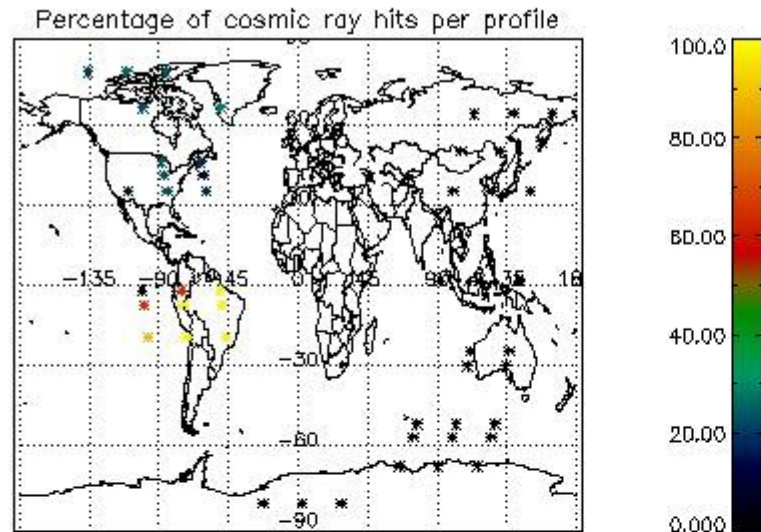
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.3673 %
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)



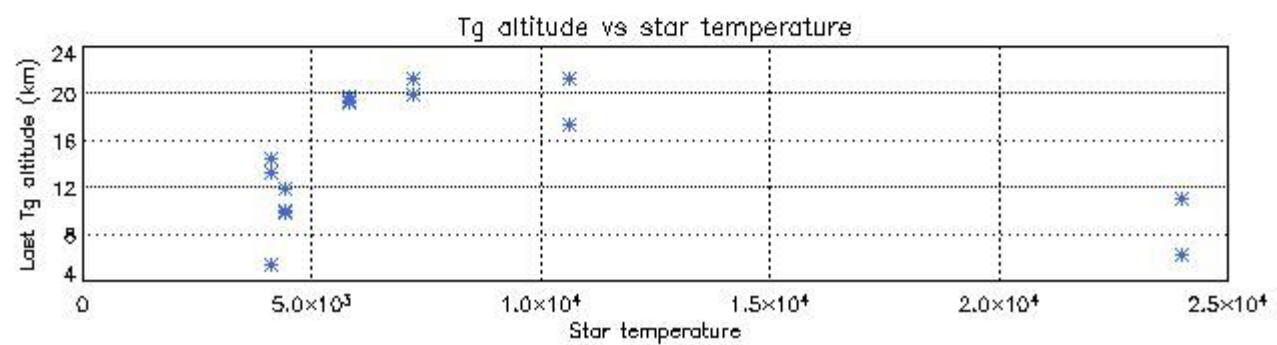
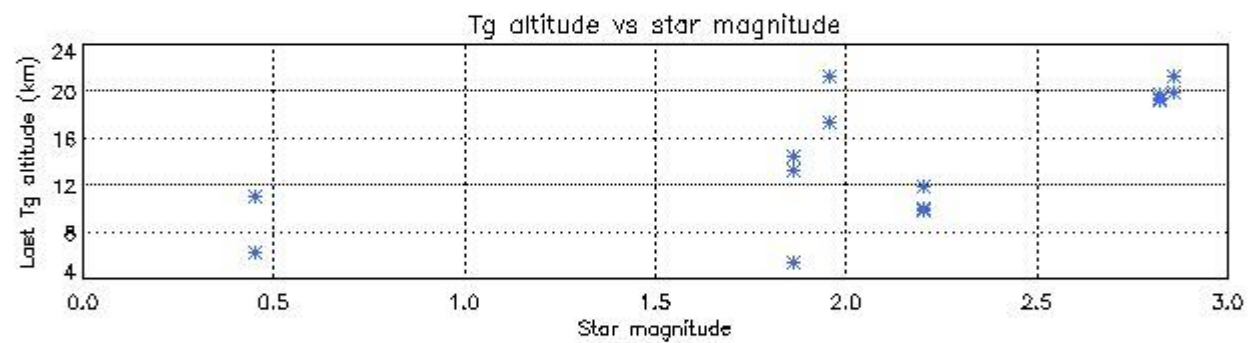
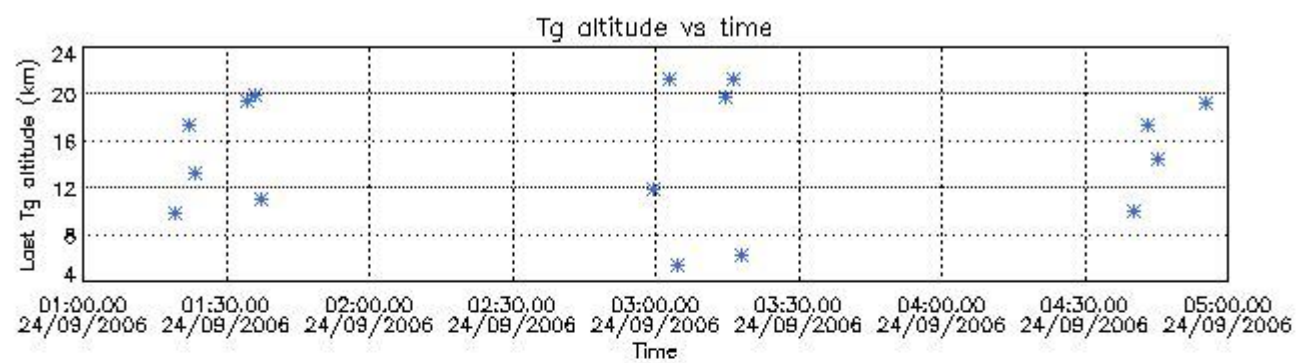
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.836	20.691	NaN
St. deviation:	5.3099	4.7557	NaN
Maximum:	21.313	29.855	NaN
Minimum:	5.4143	3.0721	NaN
Number of data:	16.000	26.000	NaN

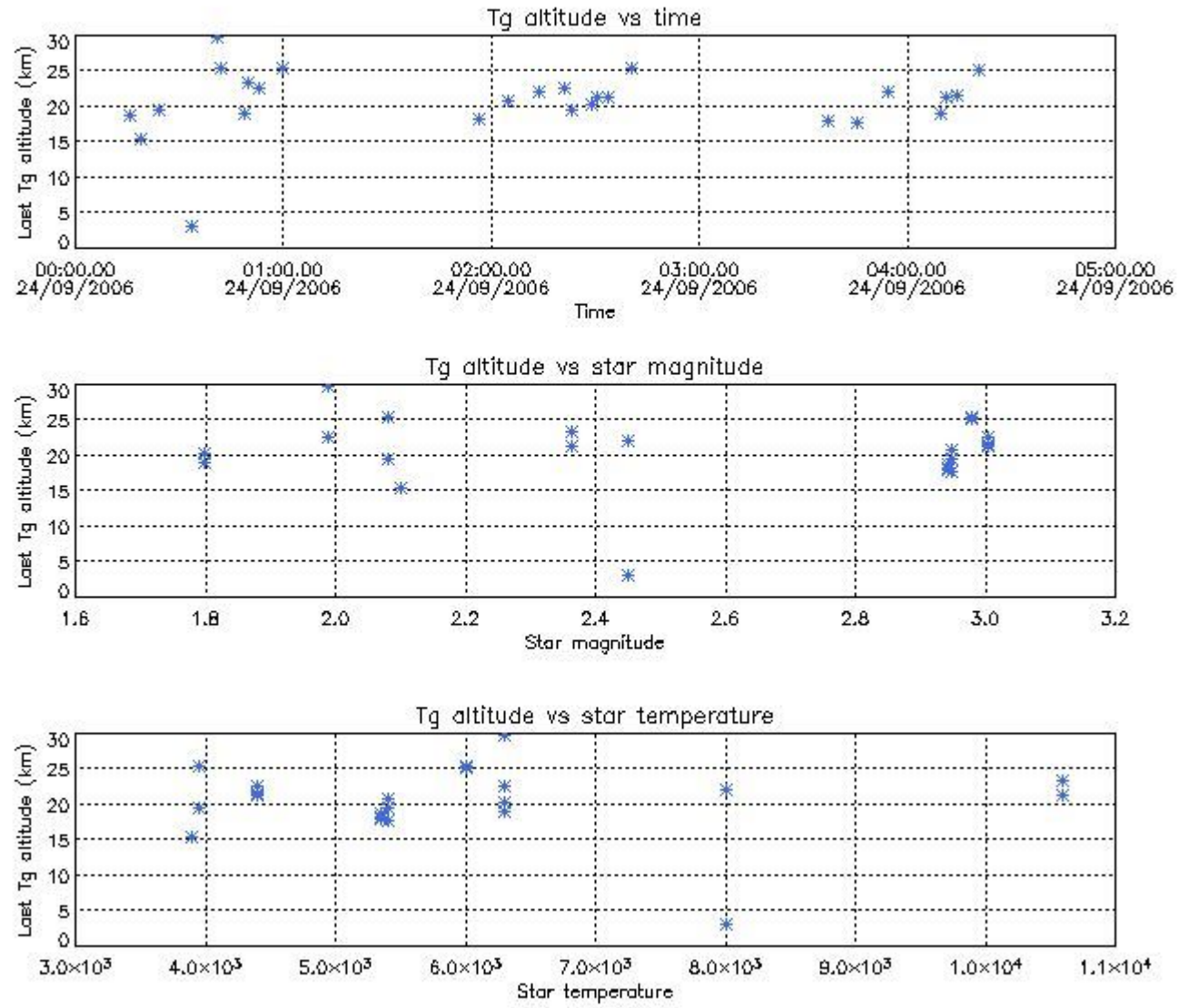
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

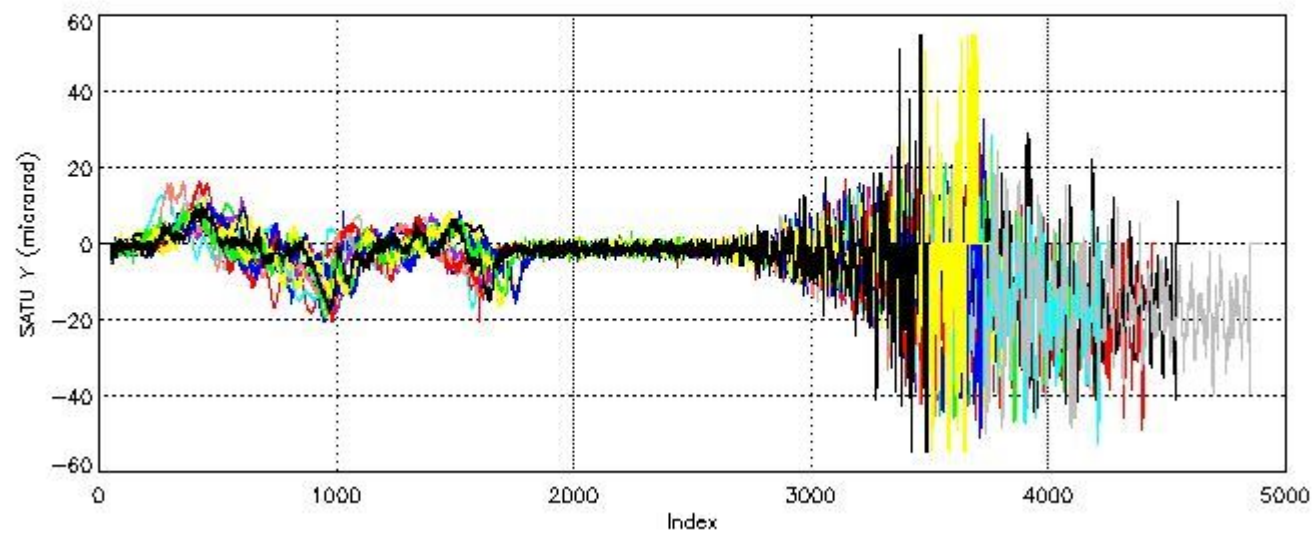
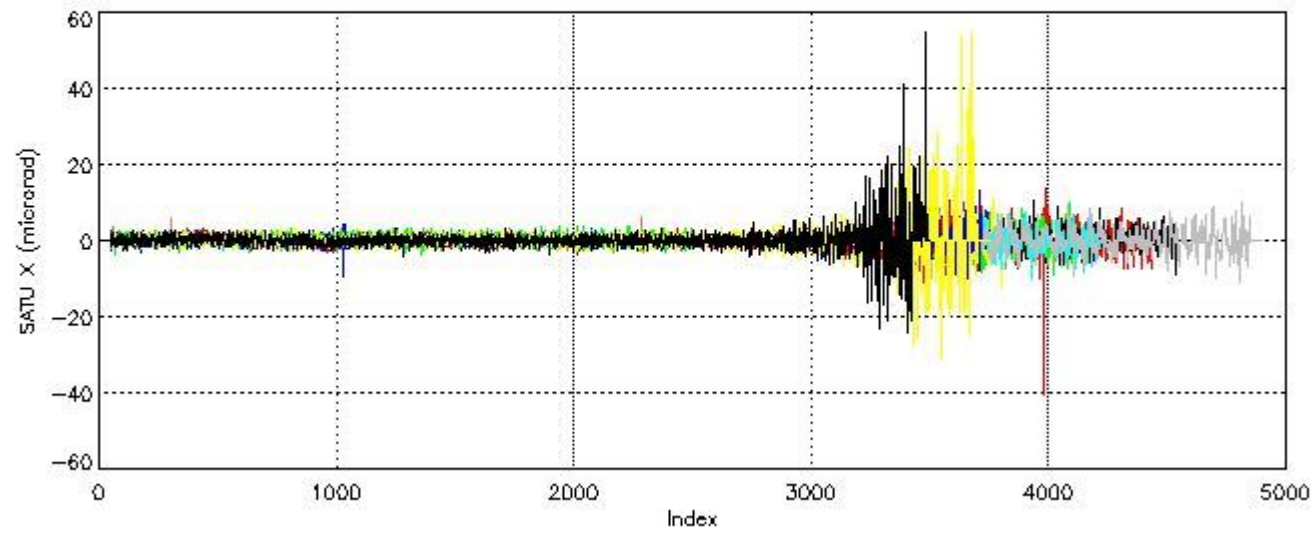


7. Star Acquisition and Tracking Unit (SATU)

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.

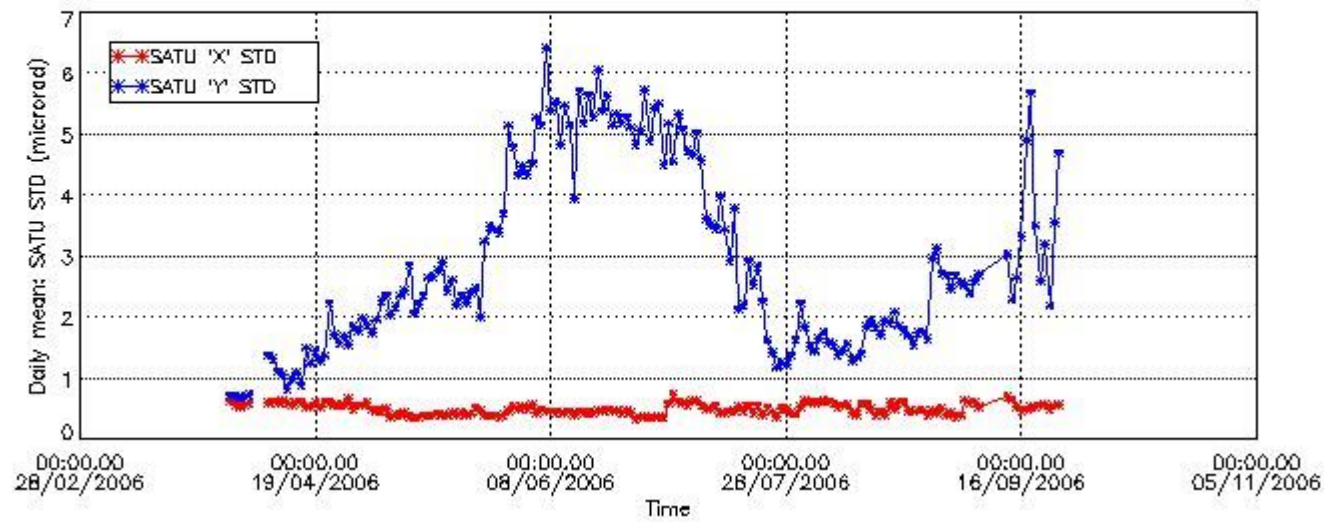
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.11206	0.34619	-0.092628	-1.3244
St. deviation:	0.56239	4.6861	0.80705	5.0673
Maximum:	5.7000	16.300	3.7000	11.700
Minimum:	-1.9000	-9.8000	-3.1000	-17.400

Number of data:	13800.	13800.	21500.	21500.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

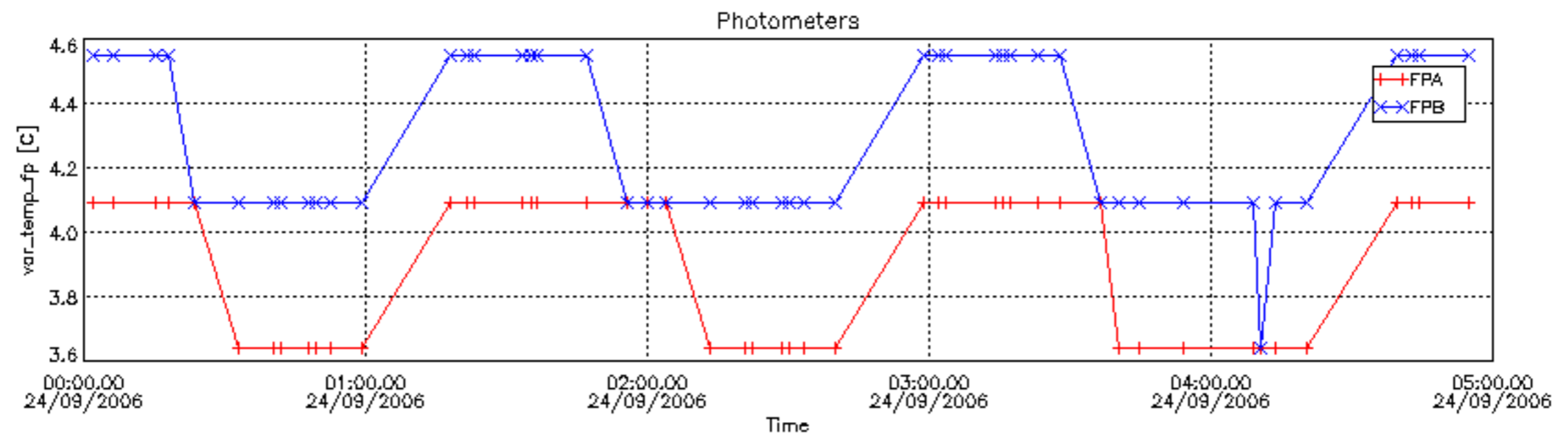
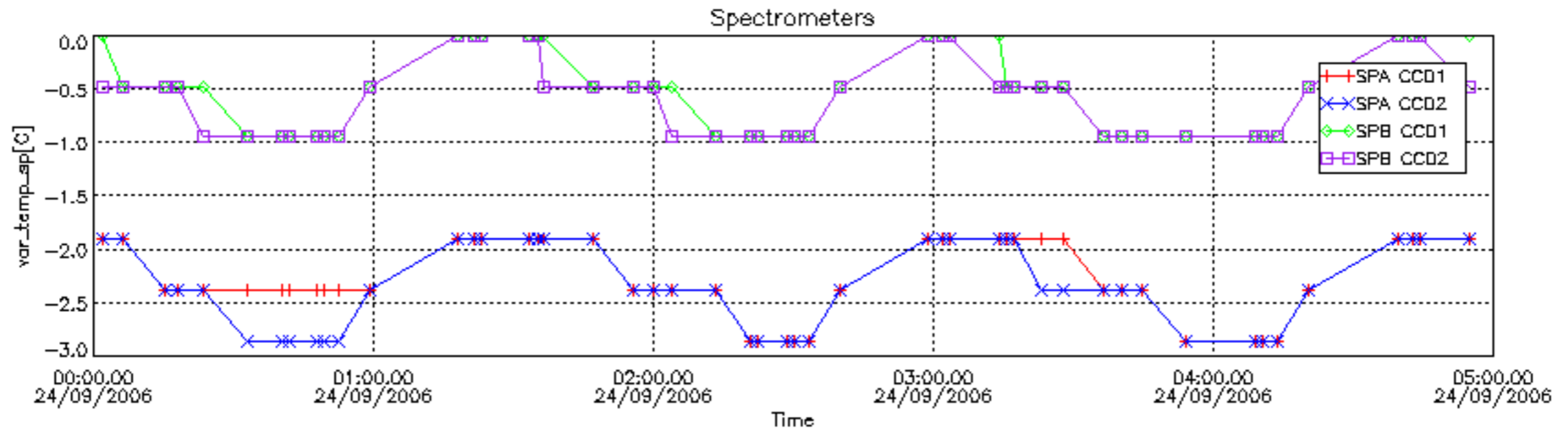
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

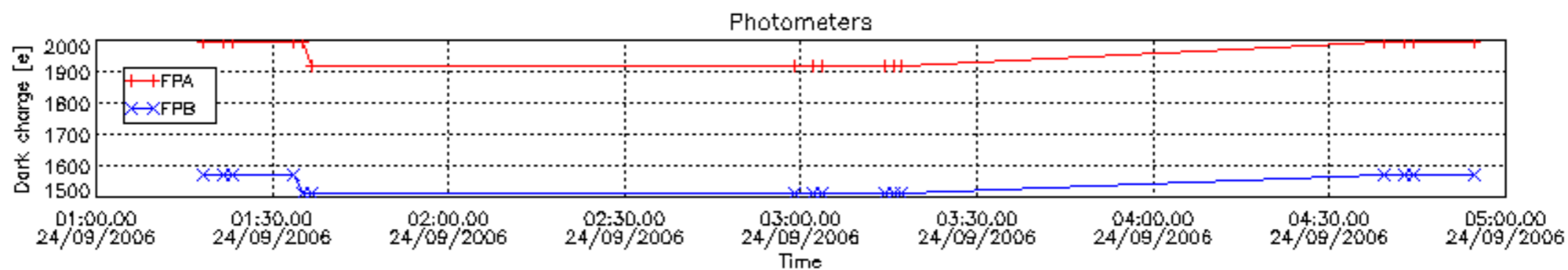
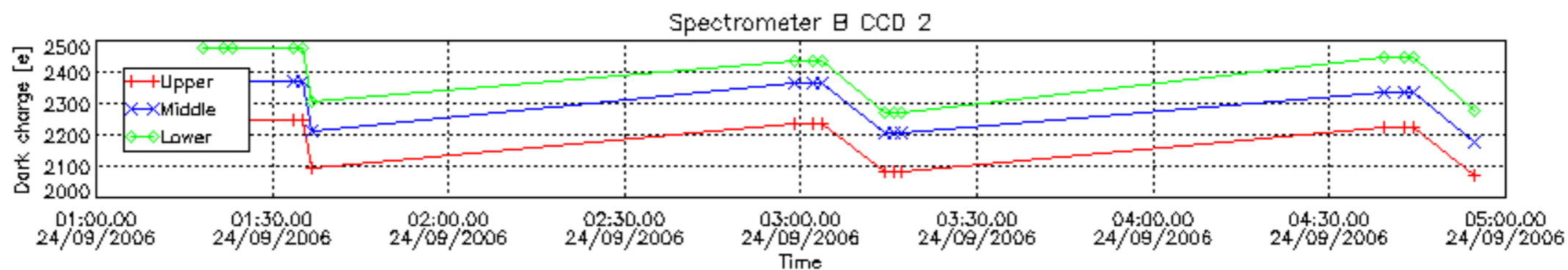
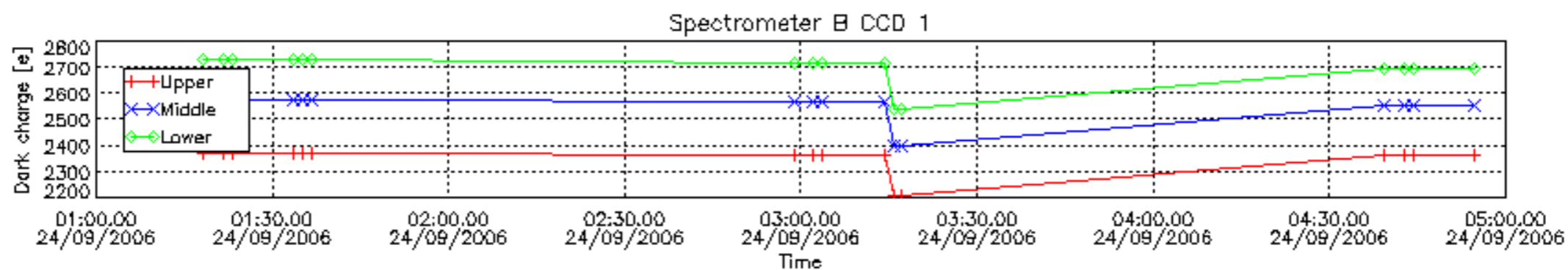
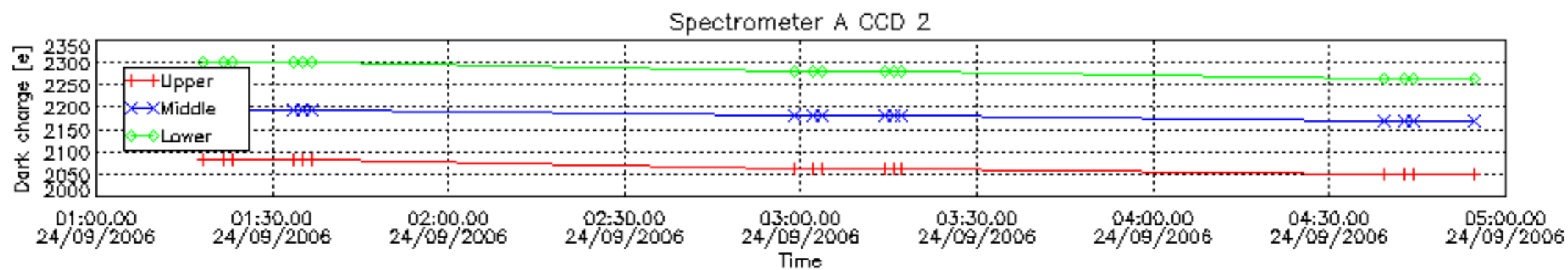
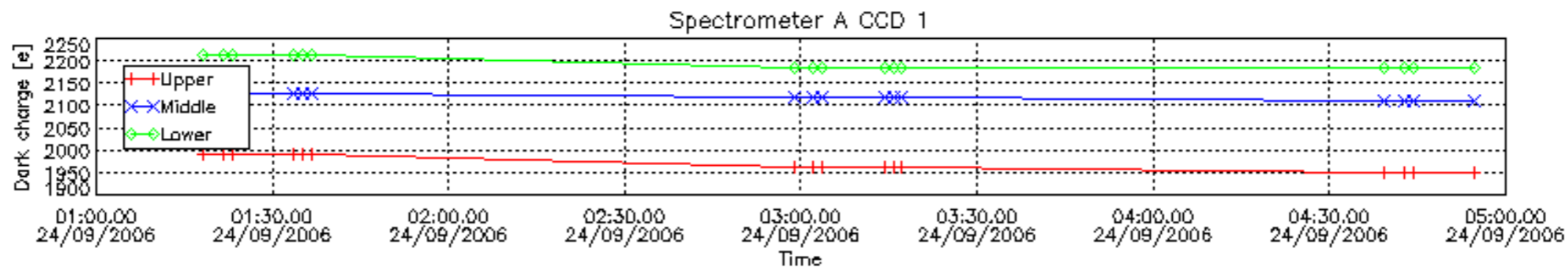


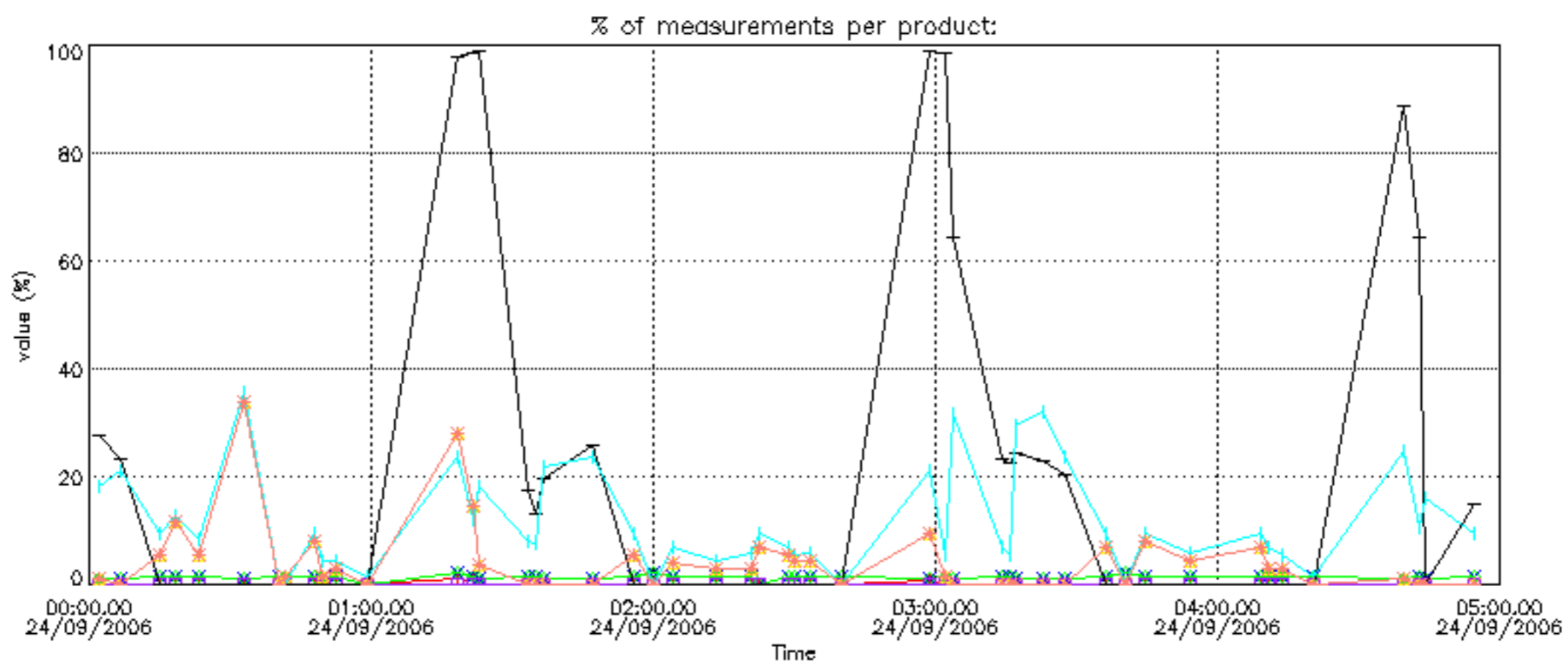
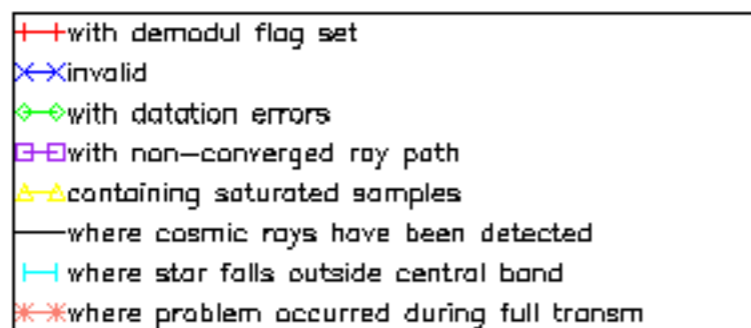
8. Auxiliary Data Files used for the production reported in section 2.2

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.

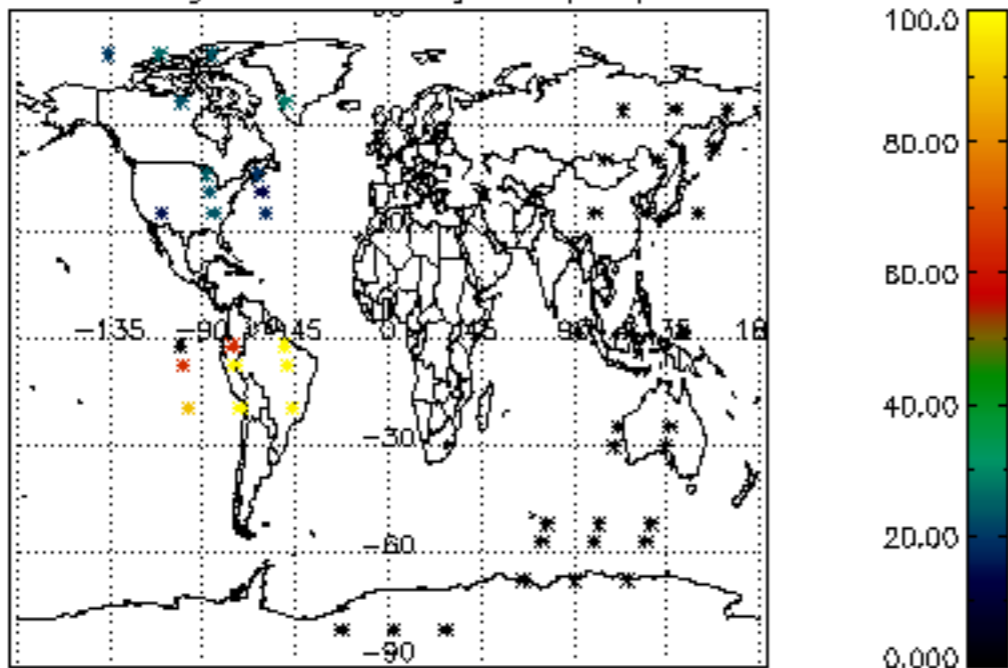
Type	Auxiliary Filename	Used since product	Used since product date
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STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-SEP-2006 00:01:52
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ECMWF_FILE	AUX_ECA_AXNECM20060924_060948_20060923_210000_20060924_090000	37	24-SEP-2006 03:27:40
ECMWF_FILE	AUX_ECF_AXNECM20060923_062949_20060923_210000_20060924_090000	41	24-SEP-2006 03:54:00
ECMWF_FILE	AUX_ECA_AXNECM20060924_060948_20060923_210000_20060924_090000	42	24-SEP-2006 04:09:09
OPTIONAL_ECMWF_FILE	MISSING	1	24-SEP-2006 00:01:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060923_232643_000057382051_00273_23874_0624.N1	1	24-SEP-2006 00:01:52
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060924_022203_000057382051_00275_23876_0626.N1	26	24-SEP-2006 02:28:33
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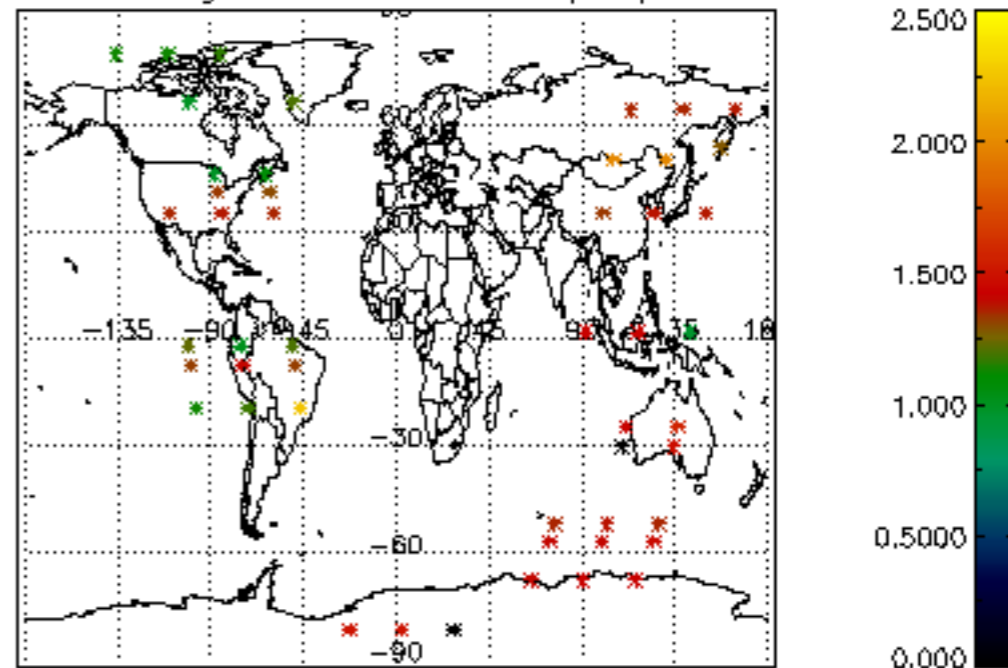




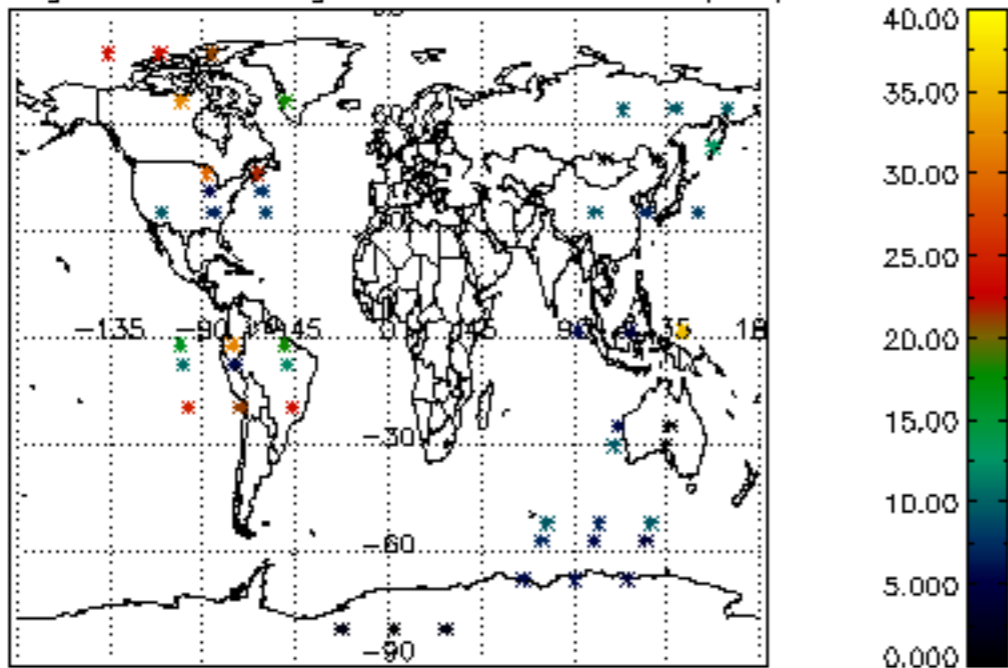
Percentage of cosmic ray hits per profile



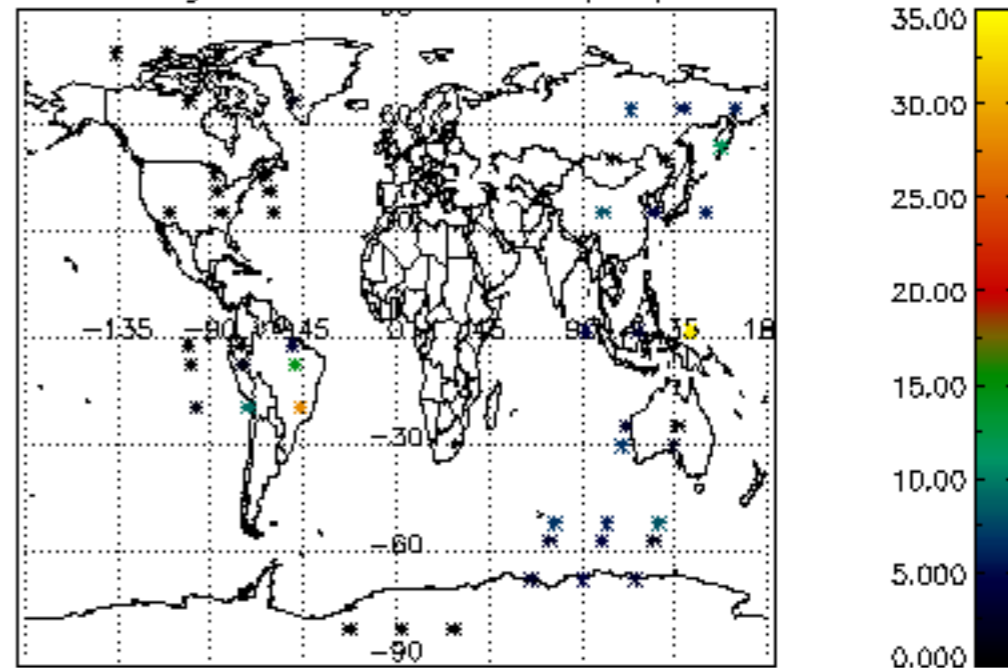
Percentage of datation errors per profile



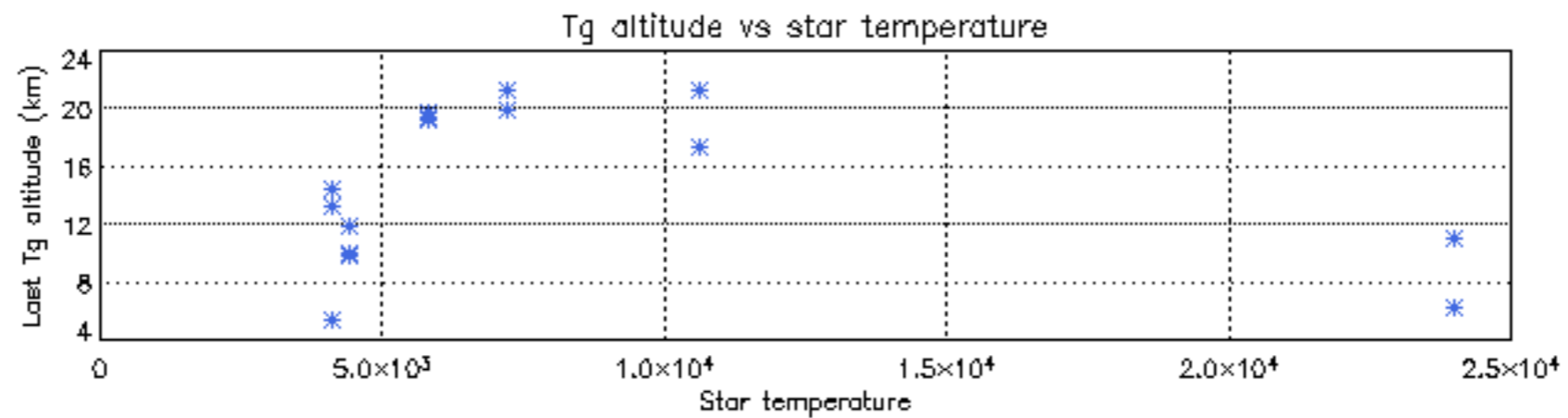
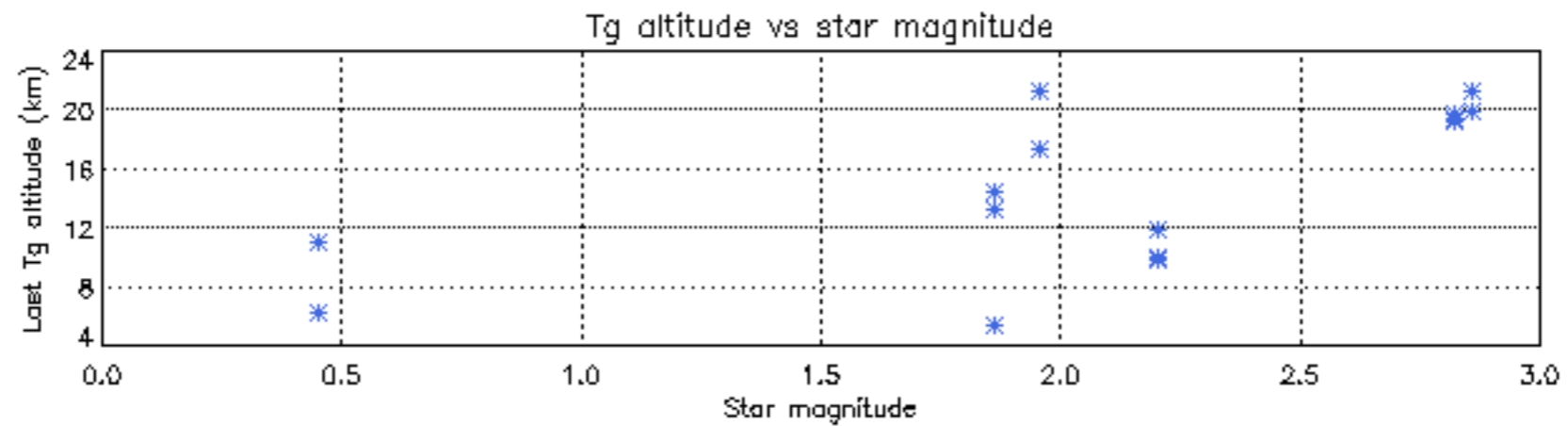
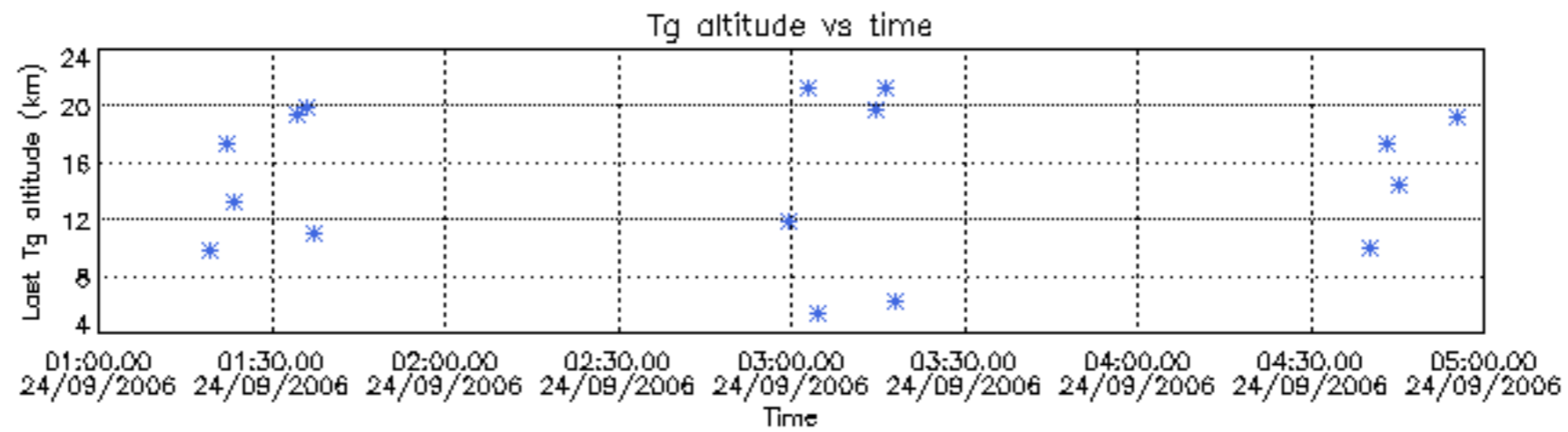
Percentage of star falling outside central band per profile



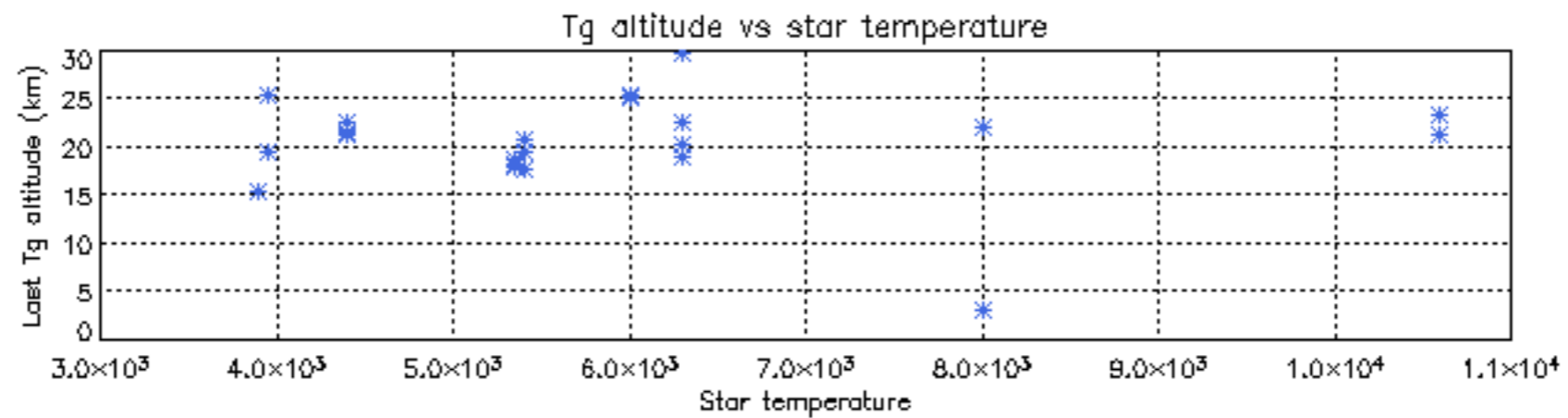
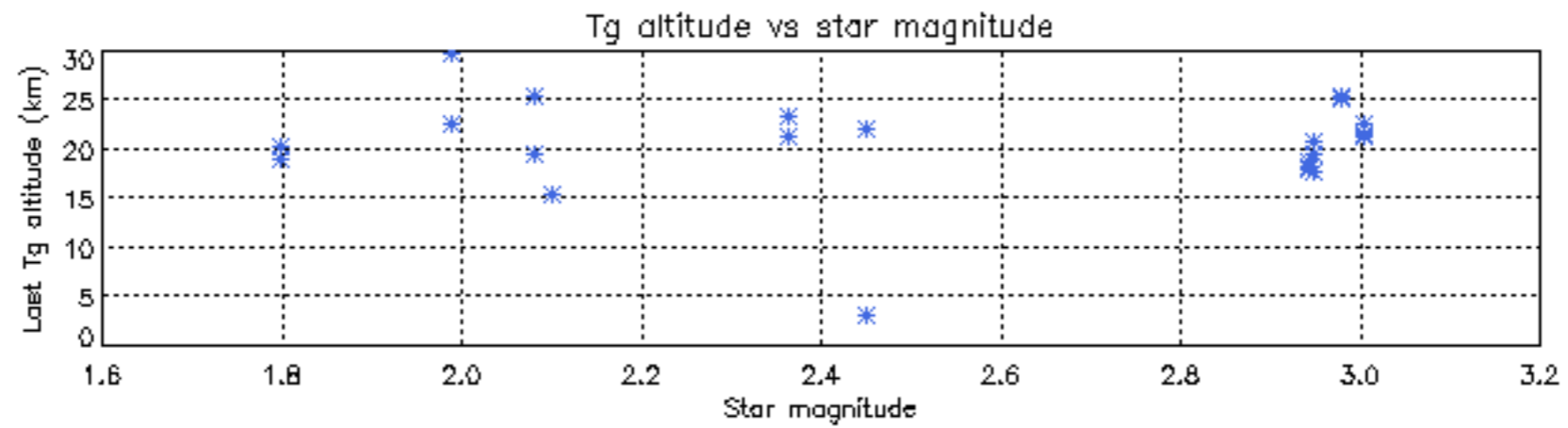
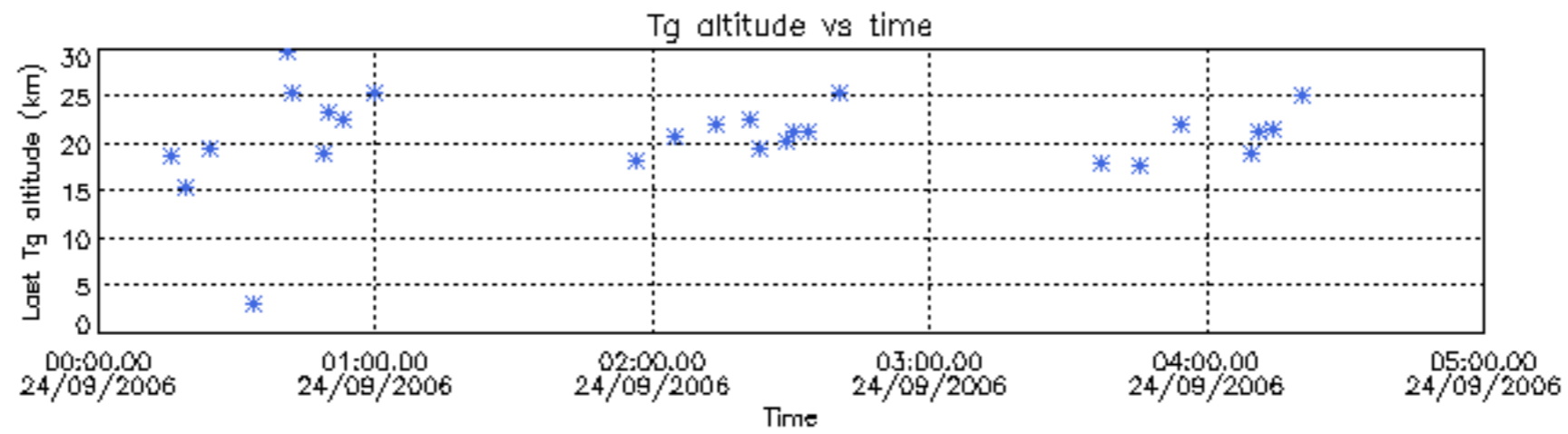
Percentage of saturation errors per profile

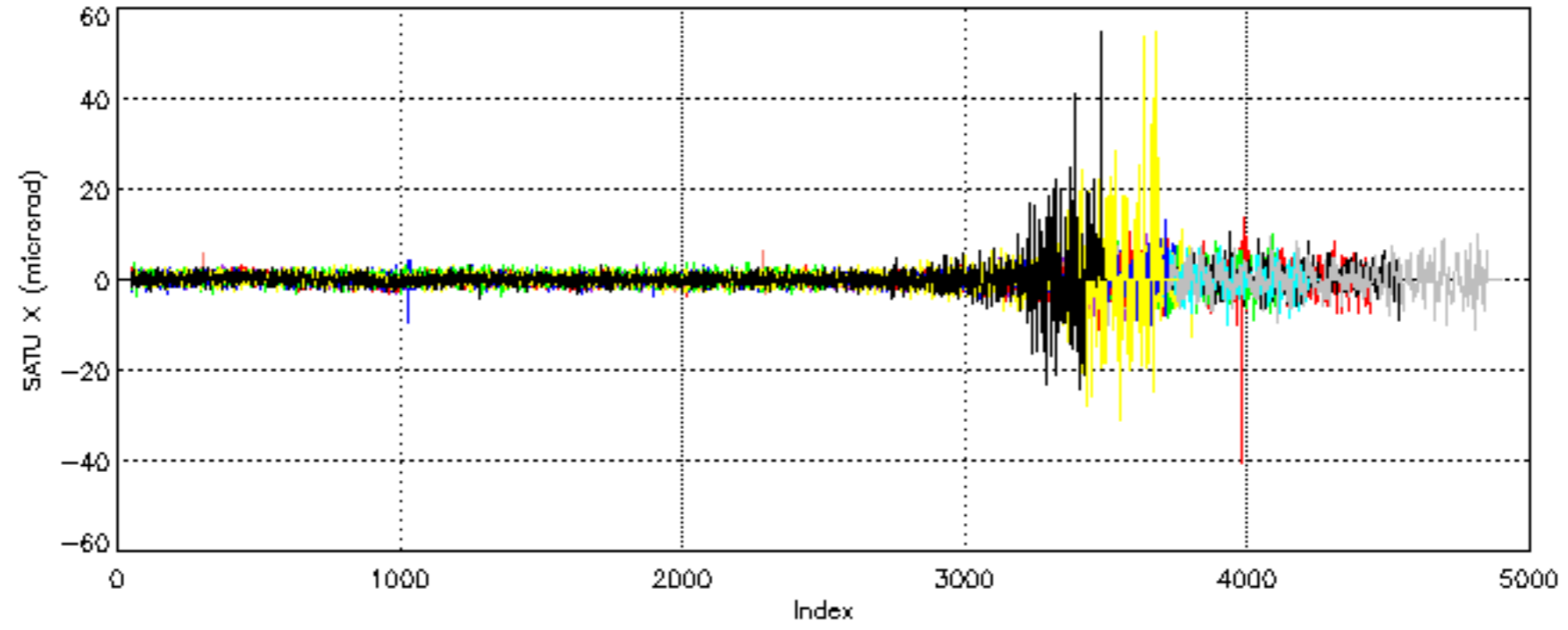


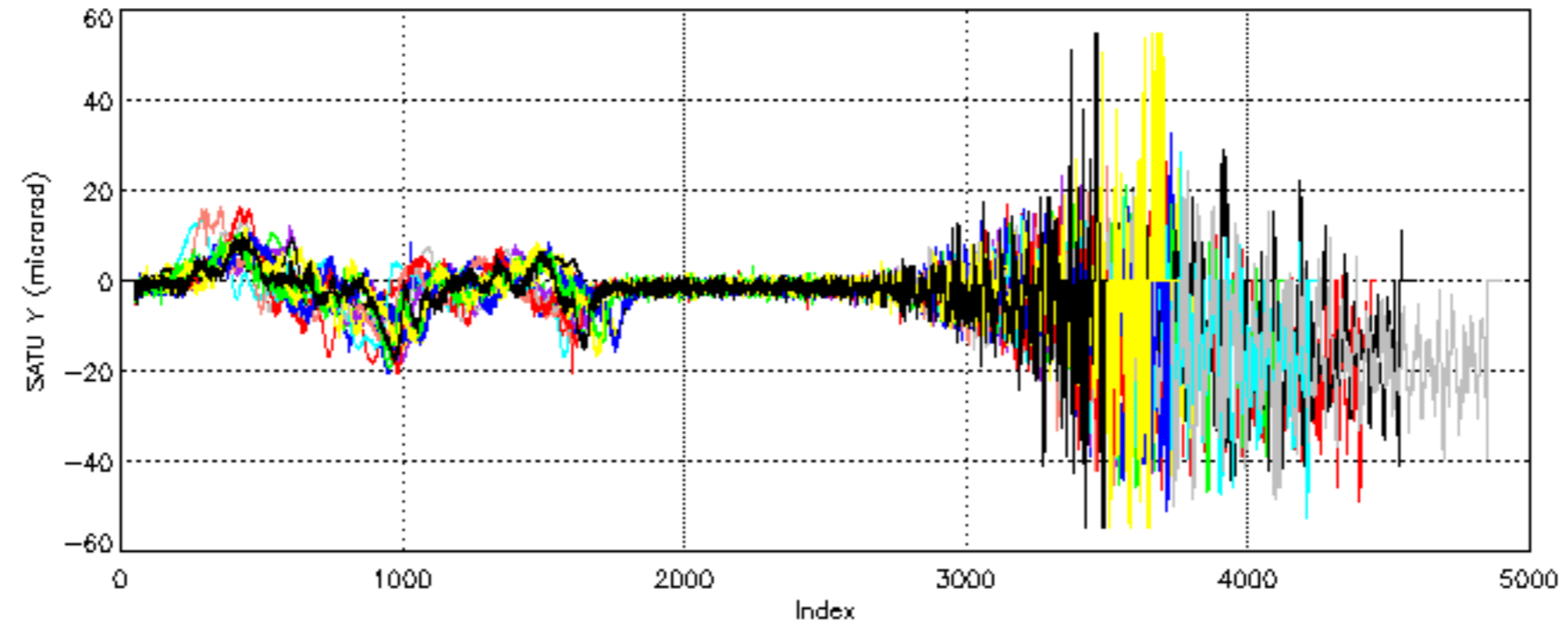
Tangent altitude at which the star is lost

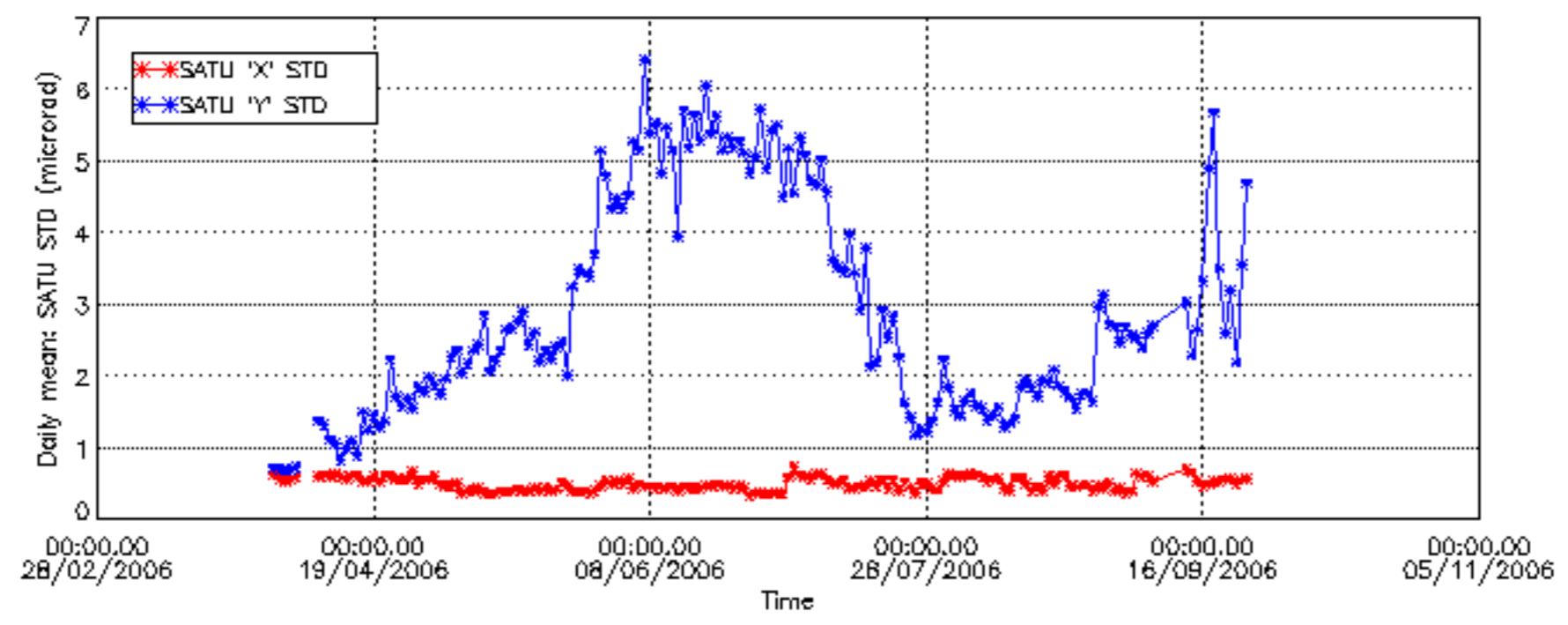


Tangent altitude at which the star is lost









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 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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14;	2097.7;	21-SEP-2006	03:33:29;	Bright;	36.5;	61;	8Eps Peg	;	2.10;	3900;occ;	73;	0;23834
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13;	2098.3;	21-SEP-2006	05:14:05;	Bright;	38.5;	61;	8Eps Peg	;	2.10;	3900;occ;	77;	0;23835
14;	2426.0;	21-SEP-2006	05:19:33;	Bright;	37.0;	164;	44Eta Peg	;	2.95;	5400;occ;	74;	0;23835
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13;	2098.5;	21-SEP-2006	06:54:41;	Bright;	38.0;	61;	8Eps Peg	;	2.10;	3900;occ;	76;	0;23836
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 17; 4172.6; 25-SEP-2006 02:01:36; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;23890
 18; 4571.5; 25-SEP-2006 02:08:15; Bright; 33.0; 166; 17Eps Leo ; 2.98; 6000;occ; 66; 0;23890

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 6; 697.1; 25-SEP-2006 02:44:16; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;23891
 7; 784.5; 25-SEP-2006 02:45:44; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;23891
 8; 1130.5; 25-SEP-2006 02:51:30; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;23891

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10;	1925.6;	25-SEP-2006	03:04:45;	Bright;		37.0;	162;	34Alp	Aqr	;	2.94;	5350;occ;	74;	0;	23891
11;	2167.7;	25-SEP-2006	03:08:47;	Bright;		36.0;	90;	54Alp	Peg	;	2.49;	11000;occ;	72;	0;	23891
12;	2423.3;	25-SEP-2006	03:13:03;	Bright;		37.5;	164;	44Eta	Peg	;	2.95;	5400;occ;	75;	0;	23891
13;	2985.4;	25-SEP-2006	03:22:25;	Bright;		35.5;	89;	5Alp	Cep	;	2.45;	8000;occ;	71;	0;	23891
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11;	784.9;	25-SEP-2006	04:26:20;	Dark	;	43.5;	9;	Alp	Eri	;	0.45;	24000;occ;	87;	0;	23892
12;	1130.7;	25-SEP-2006	04:32:06;	Dark	;	51.5;	63;	Bet	Gru	;	2.15;	2800;occ;	103;	0;	23892
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3;	-1862.9;	25-SEP-2006	05:22:48;	Bright;		40.0;	174;	52Psi	UMa	;	3.00;	4400;occ;	80;	0;	23892
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9;	-29.3;	25-SEP-2006	05:53:22;	Dark	;	40.0;	41;	Eps	Car	;	1.86;	4100;occ;	80;	0;	23892
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11;	785.3;	25-SEP-2006	06:06:57;	Dark	;	51.5;	9;	Alp	Eri	;	0.45;	24000;occ;	103;	0;	23893
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16;	2423.3;	25-SEP-2006	06:34:15;	Bright;		36.5;	164;	44Eta	Peg	;	2.95;	5400;occ;	73;	0;	23893
17;	2985.7;	25-SEP-2006	06:43:37;	Bright;		35.5;	89;	5Alp	Cep	;	2.45;	8000;occ;	71;	0;	23893
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19;	3528.0;	25-SEP-2006	06:52:39;	Bright;		37.0;	60;	7Bet	UMi	;	2.08;	3950;occ;	74;	0;	23893
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2;	-4628.1;	25-SEP-2006	19:42:07;	Dark	;	41.0;	18;	24Alp	PsA	;	1.17;	9700;occ;	82;	0;	23901
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5;	-3646.3;	25-SEP-2006	19:58:29;	Bright;		39.0;	93;	53Bet	Peg	;	2.52;	3100;occ;	78;	0;	23901
6;	-3049.2;	25-SEP-2006	20:08:26;	Bright;		35.0;	89;	5Alp	Cep	;	2.45;	8000;occ;	70;	0;	23901
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9;	-2140.1;	25-SEP-2006	20:23:35;	Bright;		37.0;	36;	50Alp	UMa	;	1.80;	6300;occ;	74;	0;	23901
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