

GOMOS Daily Report 05-MAR-2005

Level 0 and Level 1 products

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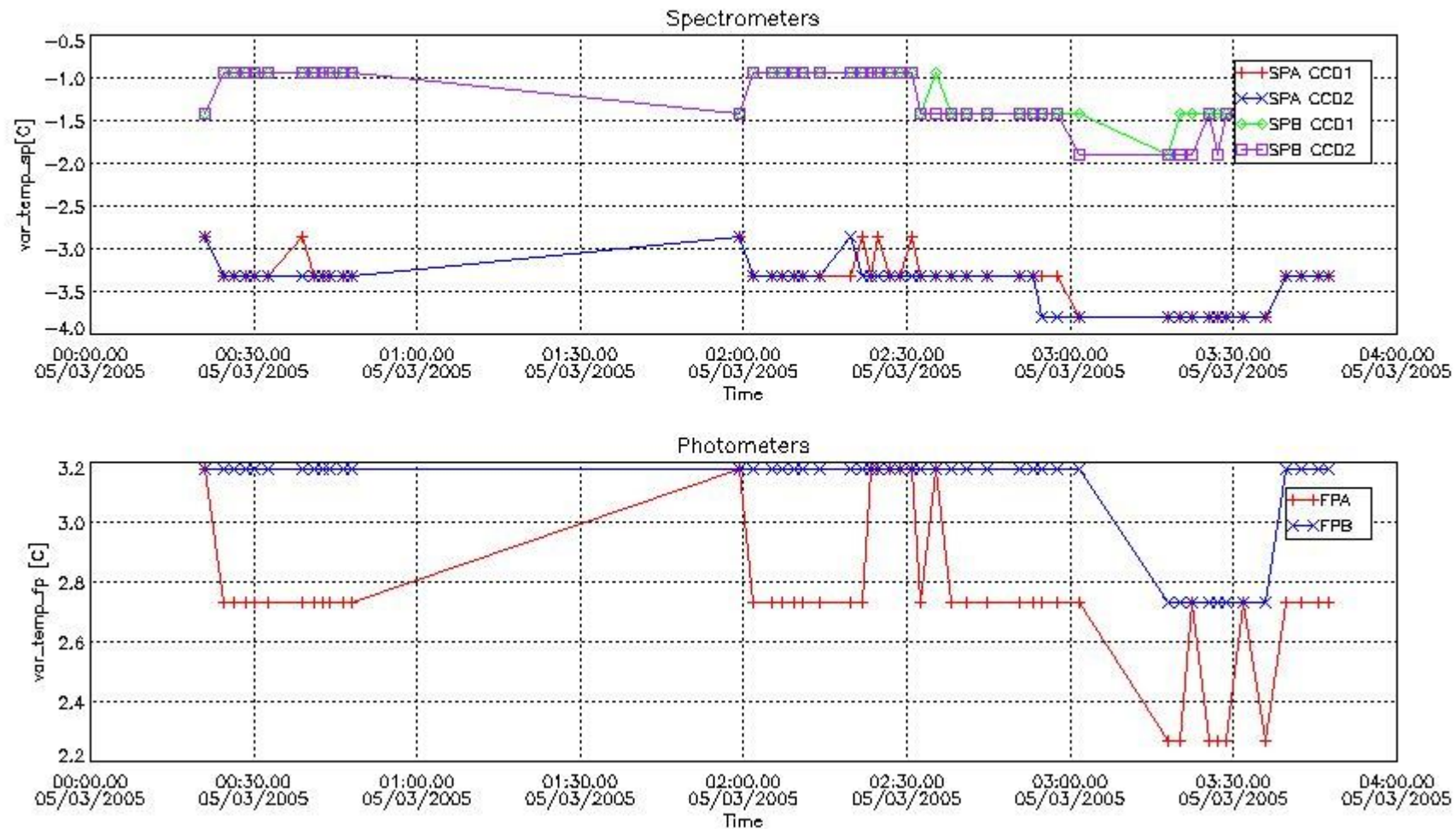
1. General Info

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	07MAR2005 05:01:32

47	GOM_TRA_1PNPDE20050305_034540_00000422035_00161_15746_0010.N1	05-MAR-2005 03:45:40	Twilight	41.500	155	41Pi Sgr	2.9000	6600.0	83	15746	No
48	GOM_TRA_1PNPDE20050305_034733_00000462035_00161_15746_0011.N1	05-MAR-2005 03:47:33	Dark	46.000	57	34Sig Sgr	2.0660	26000.	92	15746	No

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



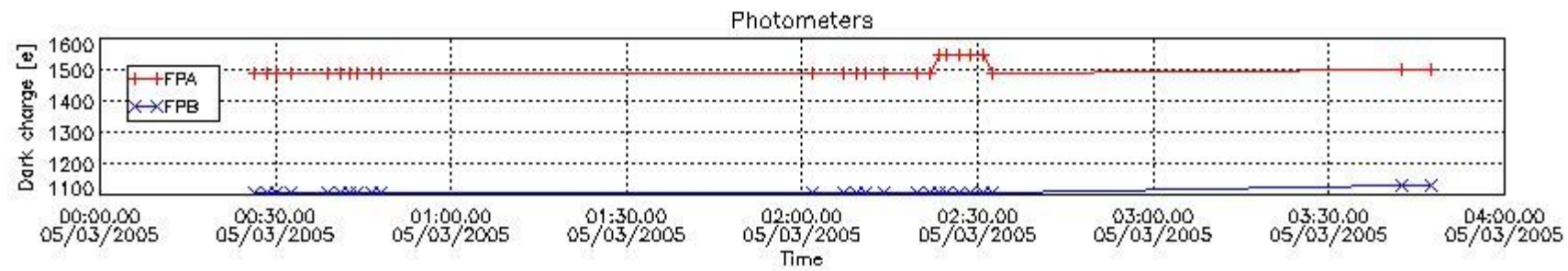
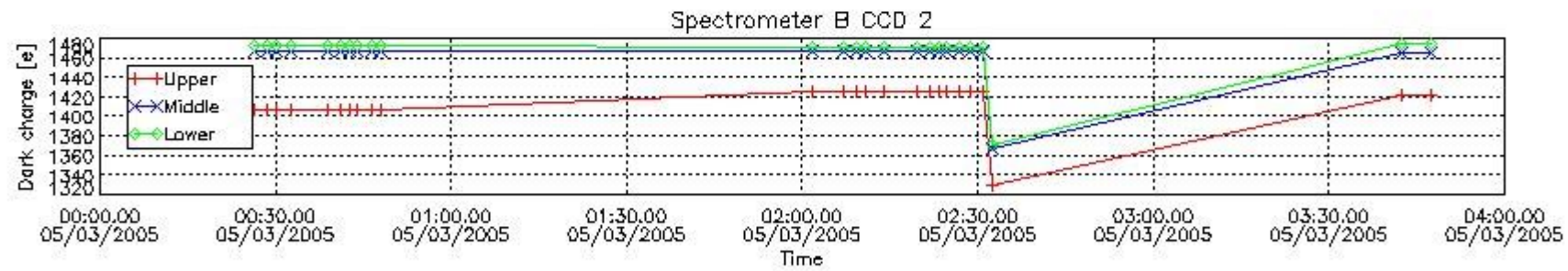
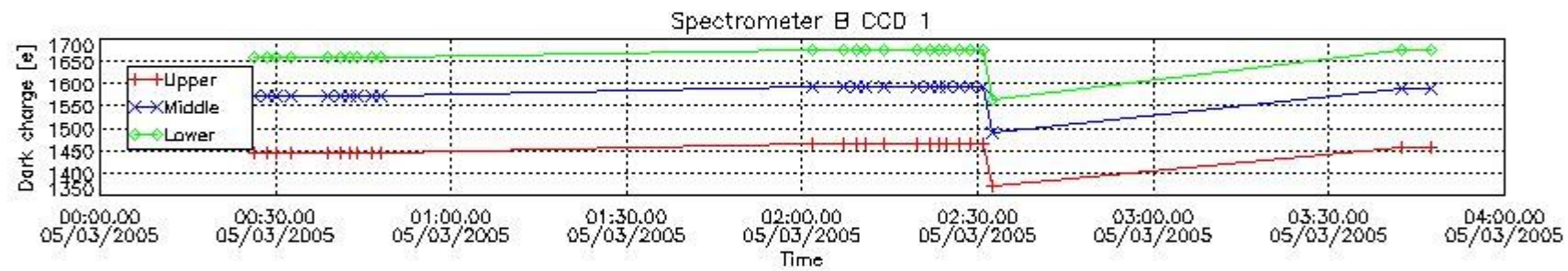
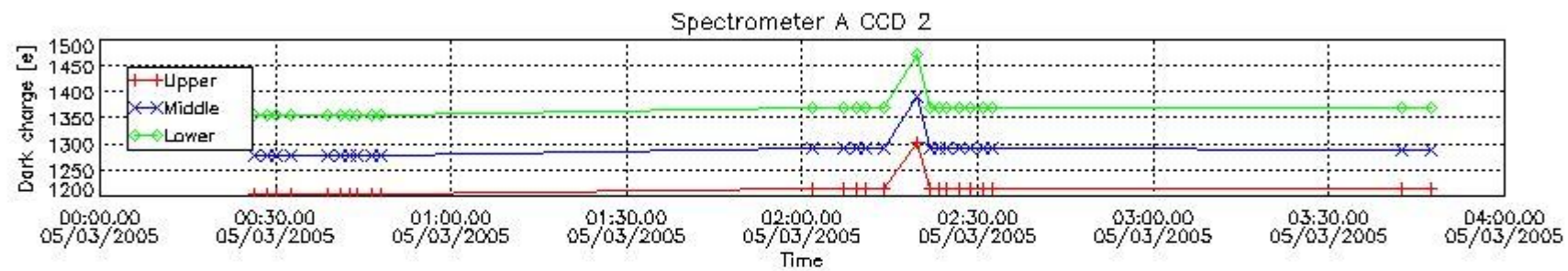
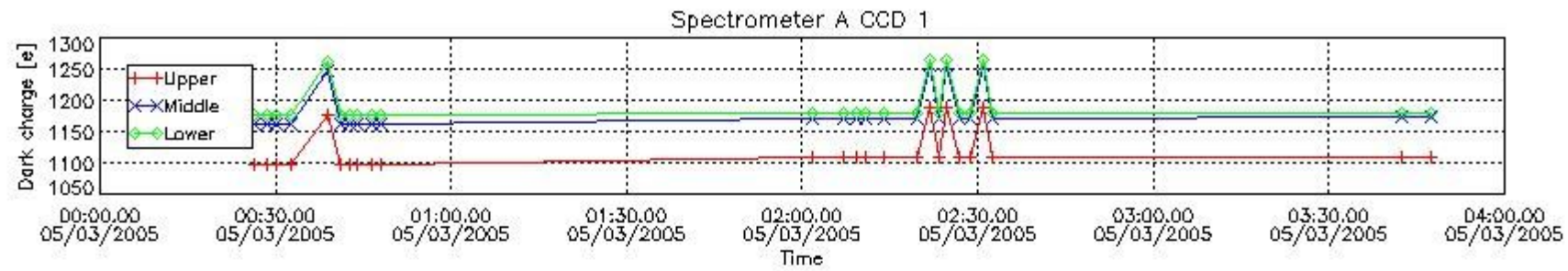
4. Overview of dark signal processing per product

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



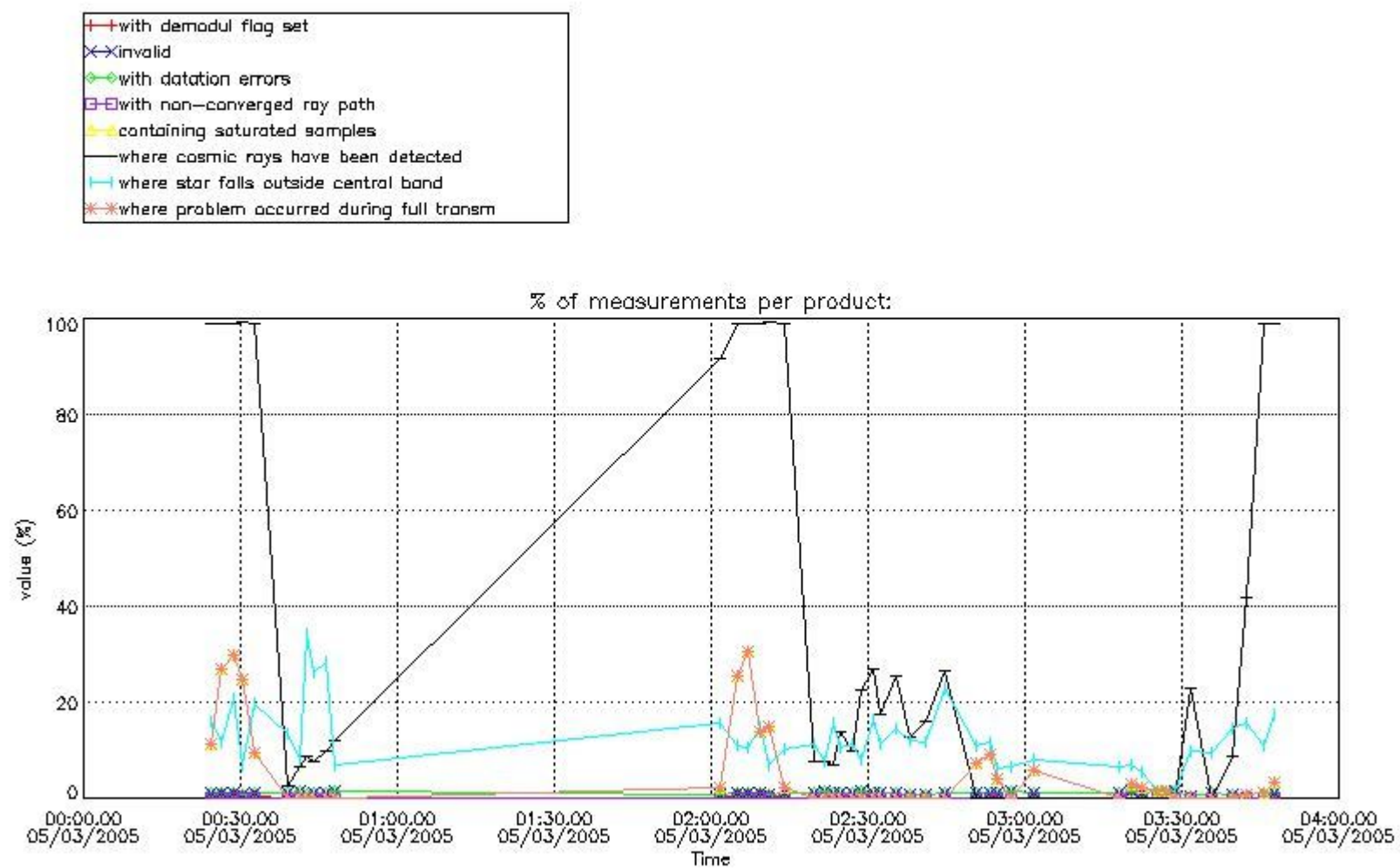
5. Demodulation flag and quality information monitoring

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.

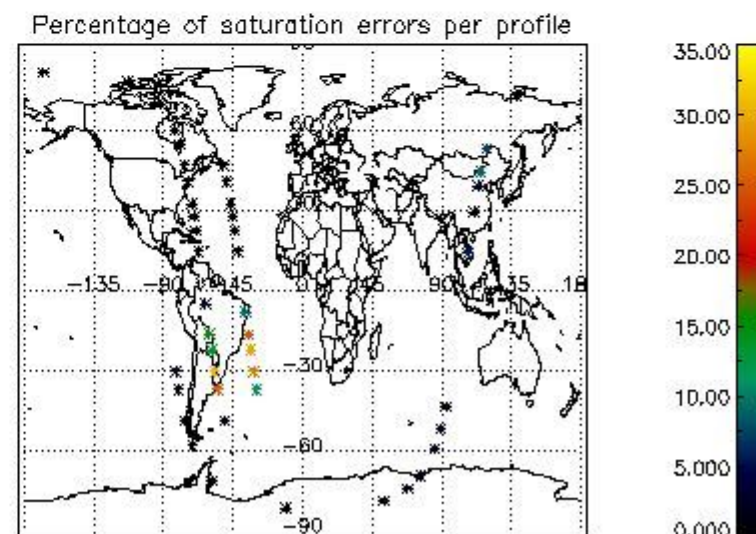
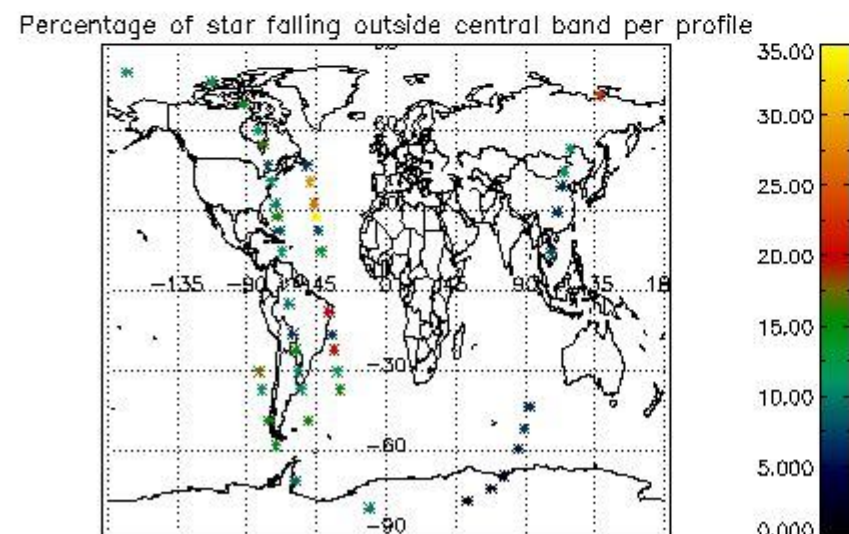
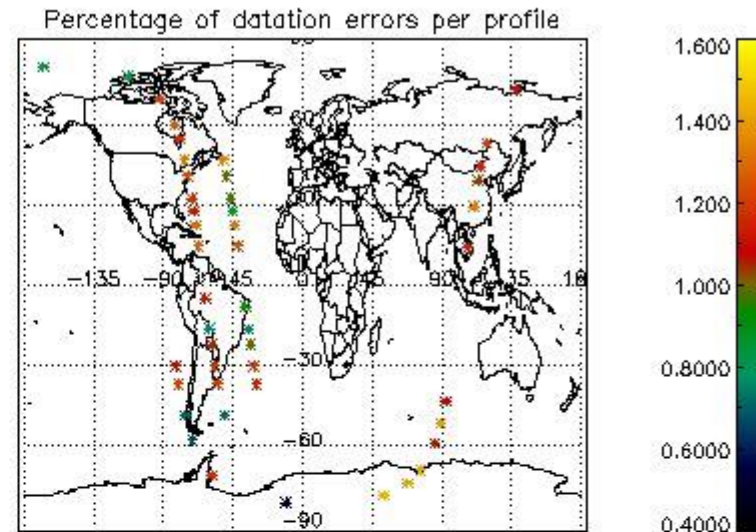
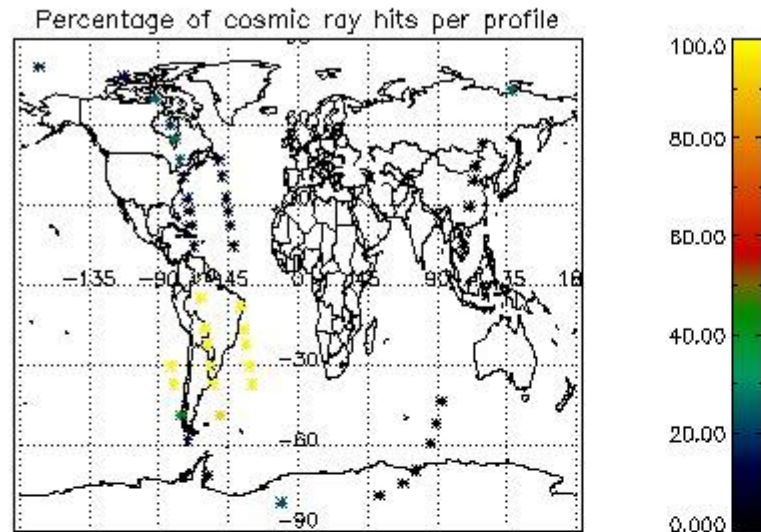
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.4348 %
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)



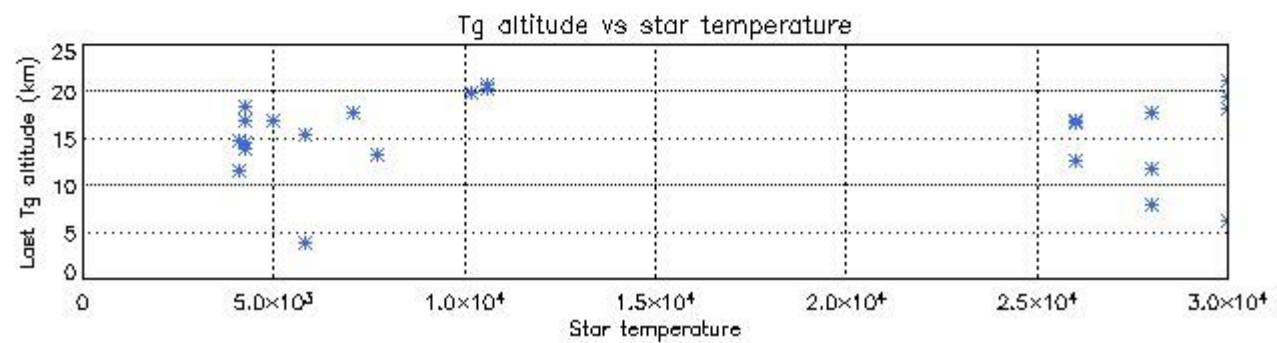
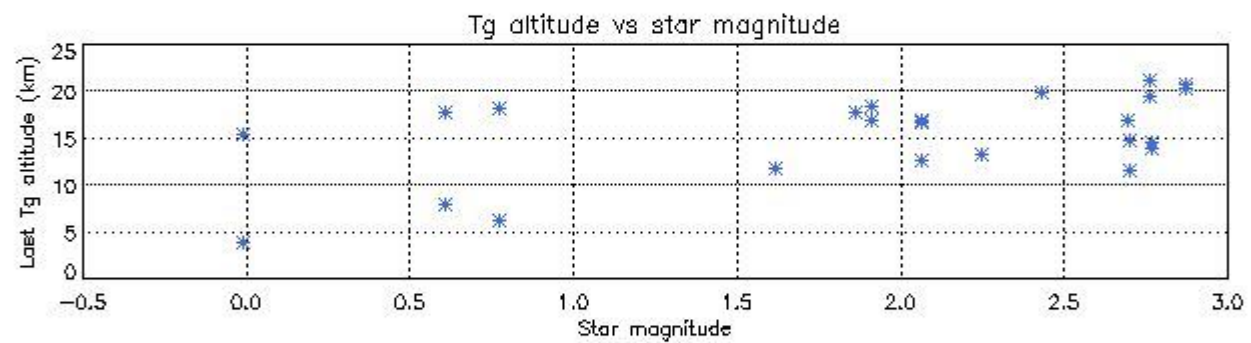
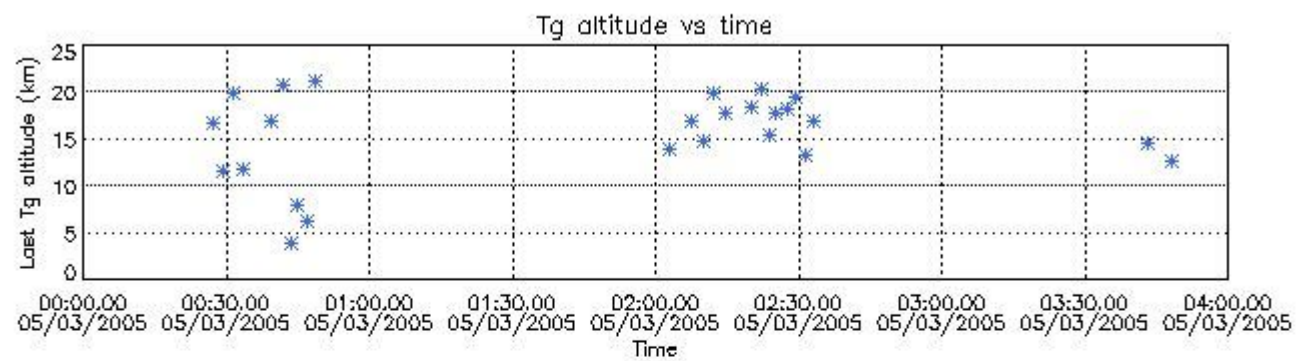
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.441	19.233	15.846
St. deviation:	4.5634	3.9699	1.9729
Maximum:	21.213	24.654	18.758
Minimum:	3.7699	9.8242	13.832
Number of data:	25.000	15.000	6.0000

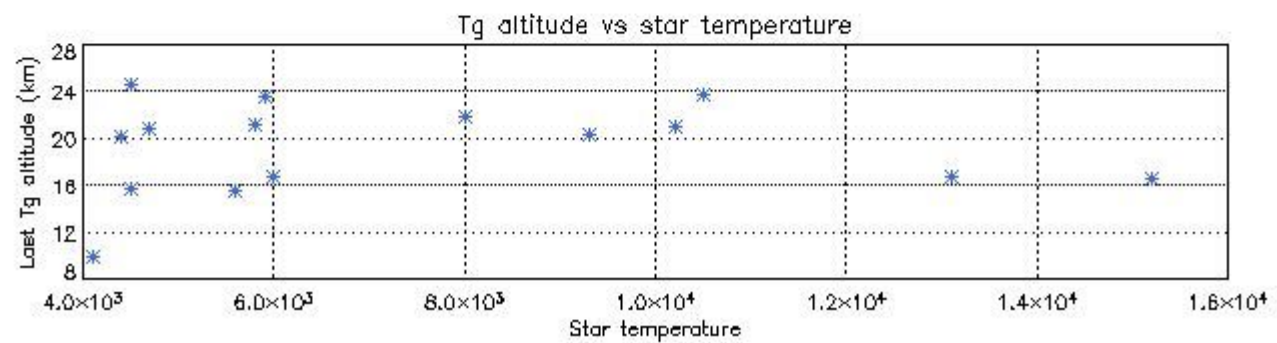
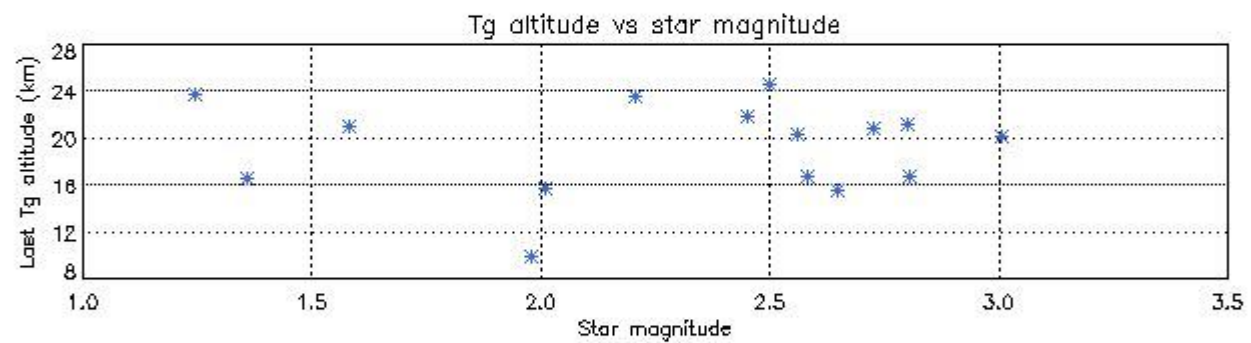
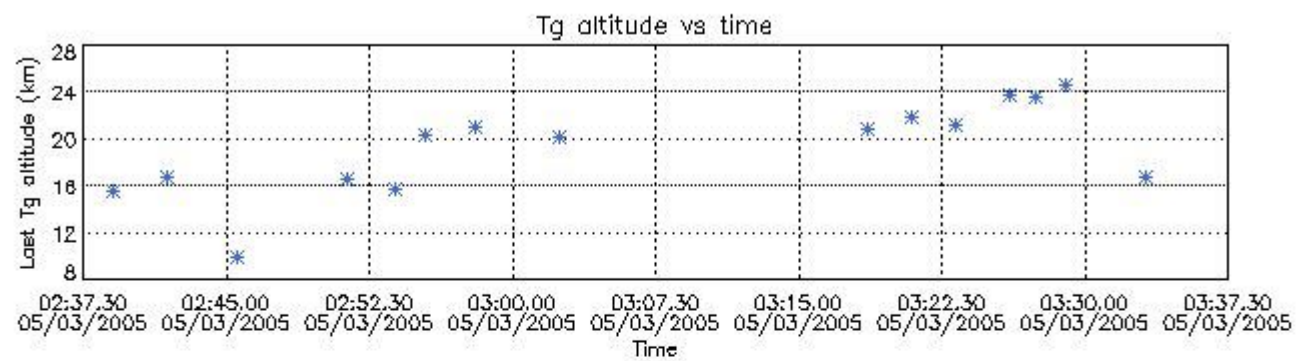
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



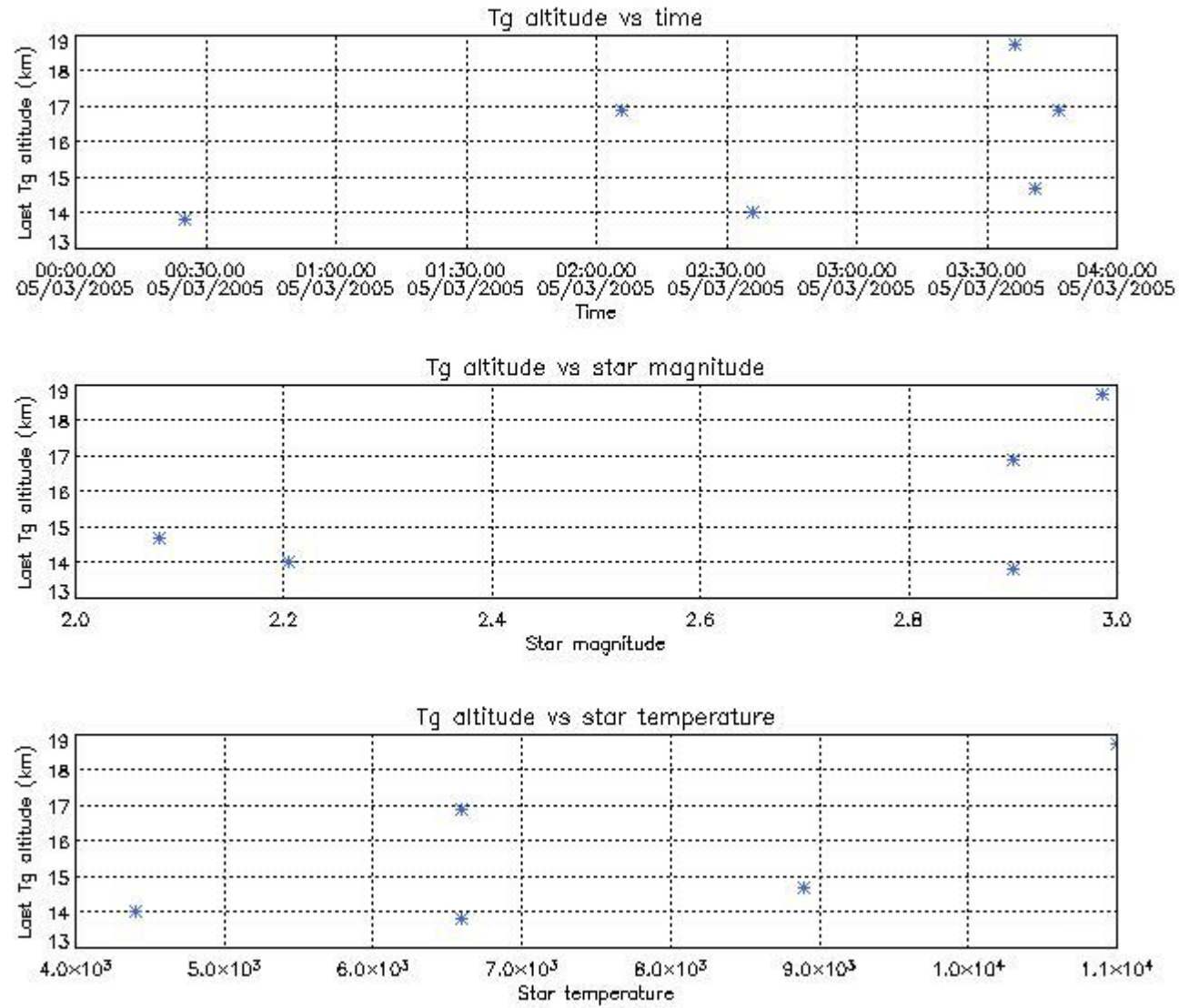
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

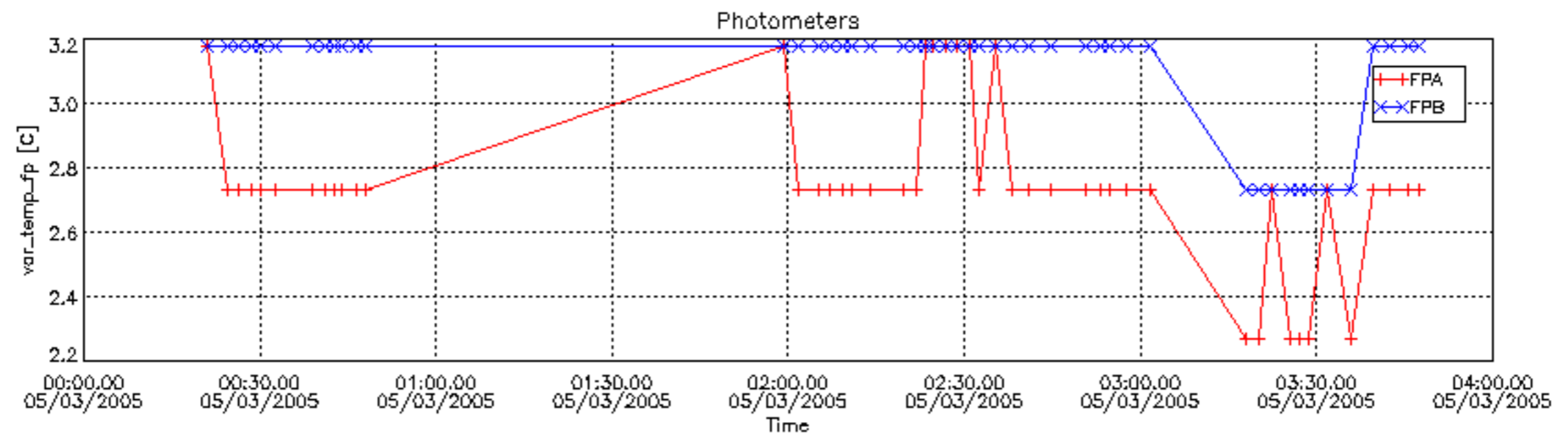
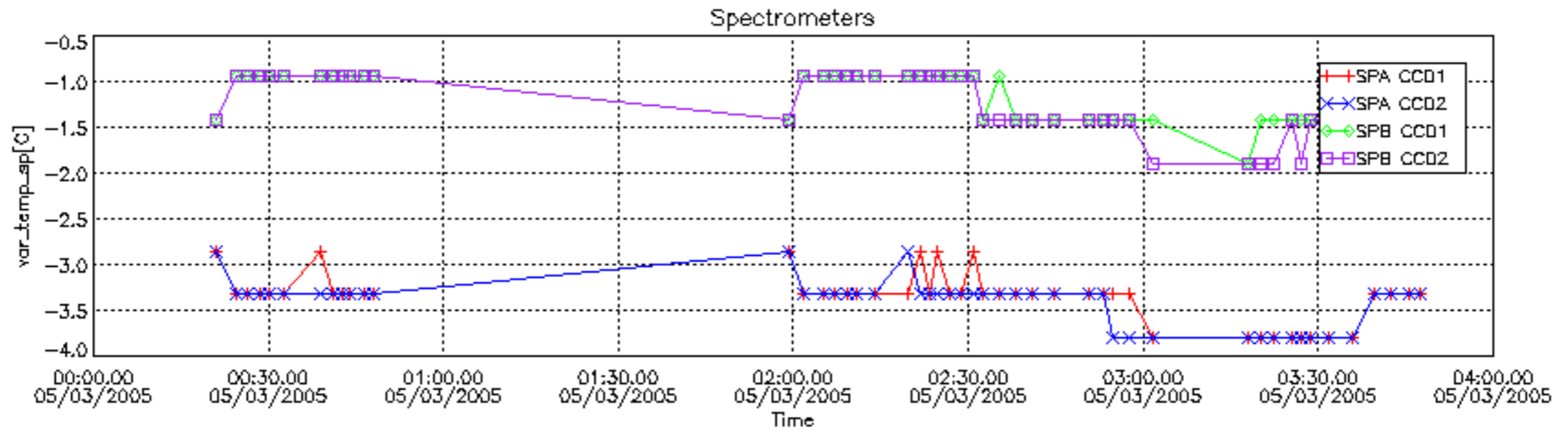
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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.

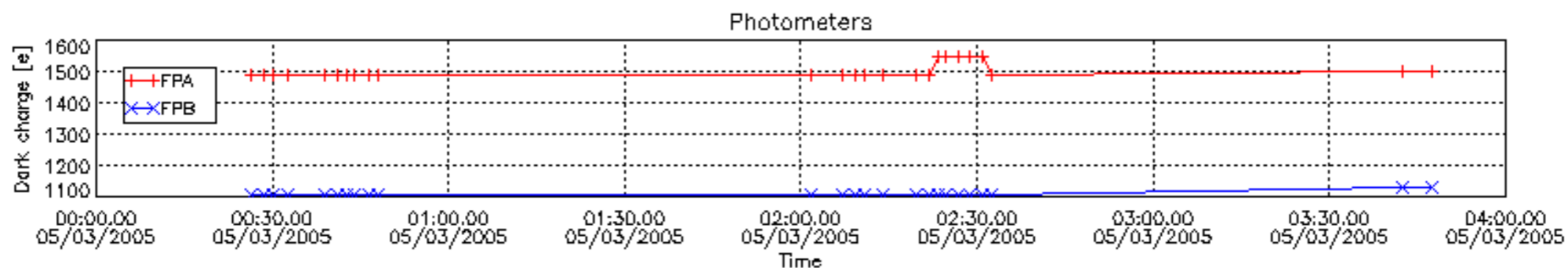
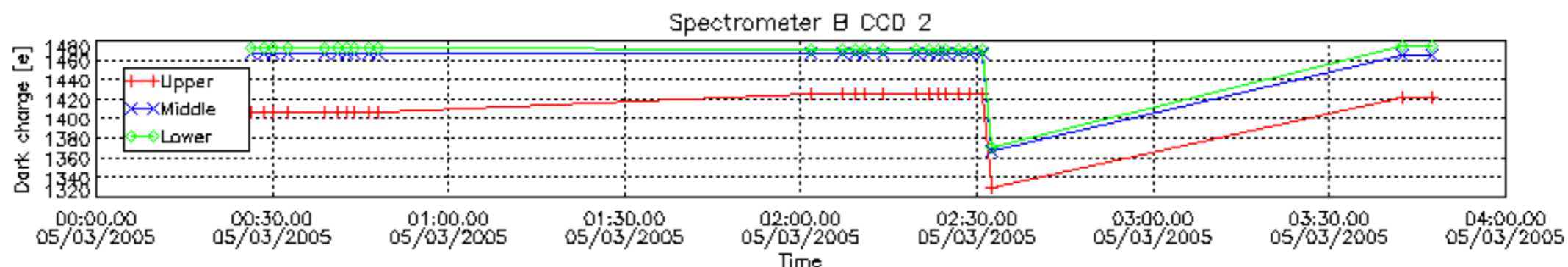
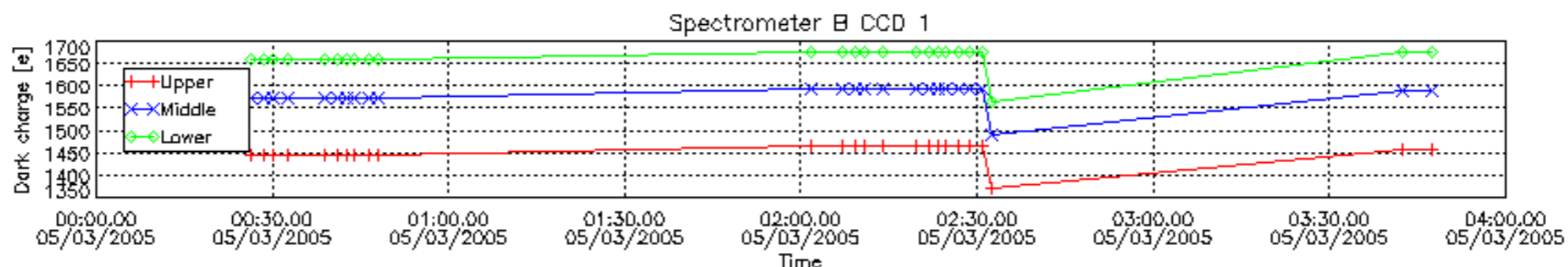
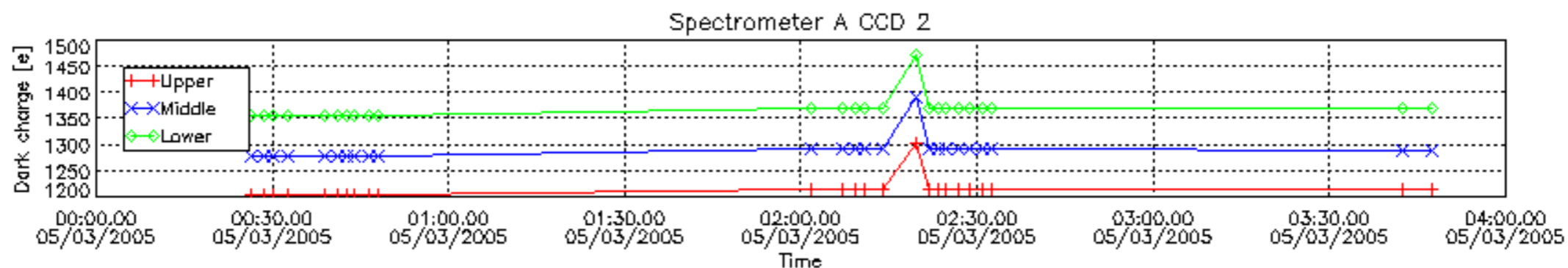
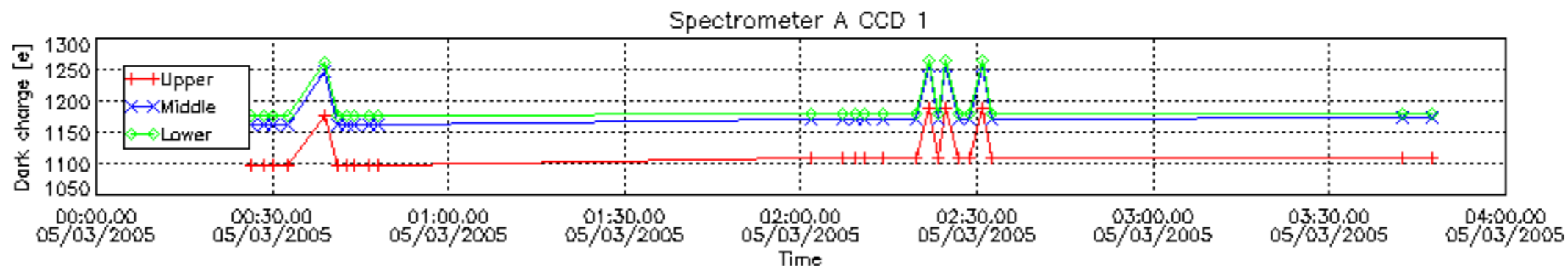
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.5	1447.1	1462.0	1447.9
St. deviation:	5.4038	6.3468	6.2374	7.4773
Maximum:	1590.0	1580.0	1498.0	1489.0
Minimum:	1443.0	1424.0	1438.0	1425.0
Number of data:	28300.	28300.	16750.	16750.

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

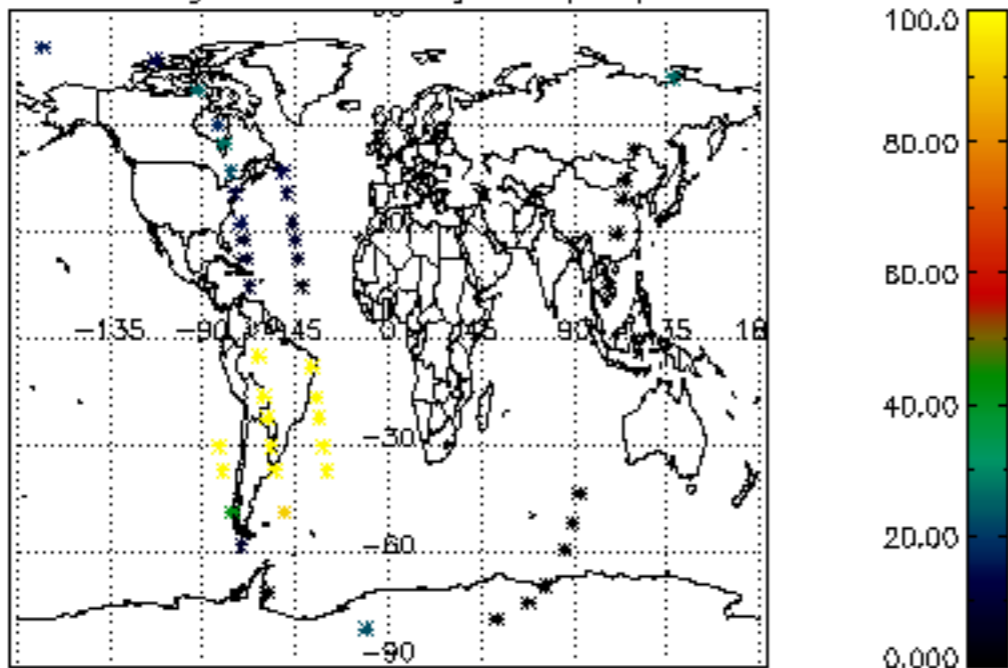
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	05-MAR-2005 00:21:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050126_111922_20050123_000000_20100101_000000	1	05-MAR-2005 00:21:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050304_134628_20050302_000000_20100101_000000	37	05-MAR-2005 03:17:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	05-MAR-2005 00:21:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-MAR-2005 00:21:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	05-MAR-2005 00:21:04
ECMWF_FILE	AUX_ECF_AXNECM20050304_060321_20050304_210000_20050305_090000	1	05-MAR-2005 00:21:04
OPTIONAL_ECMWF_FILE	NOT USED	1	05-MAR-2005 00:21:04
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050304_230416_20050304_193302_20050314_205915	1	05-MAR-2005 00:21:04

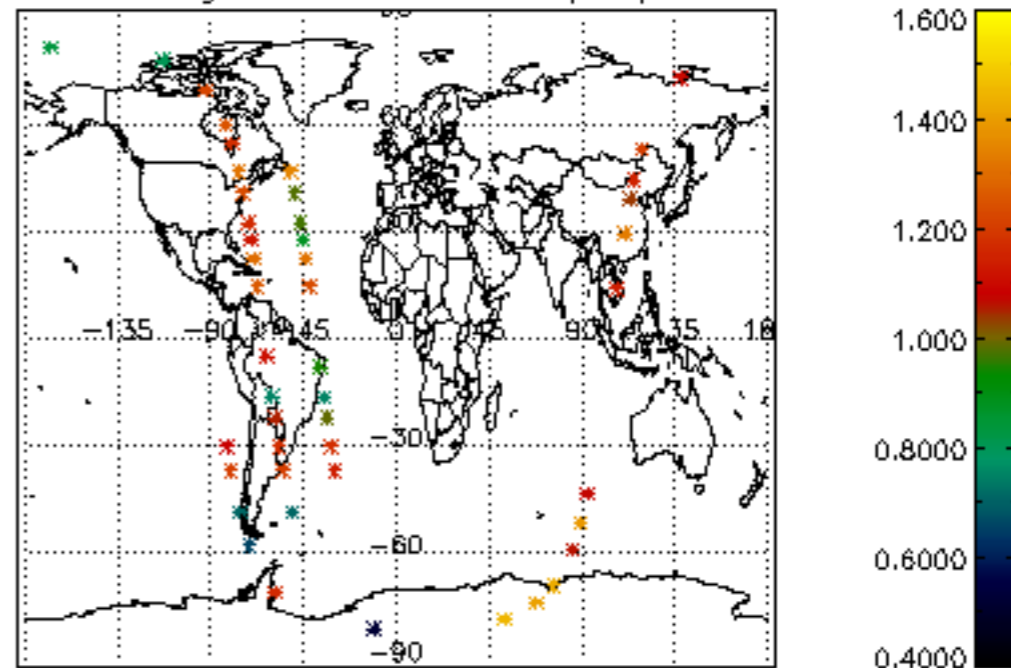




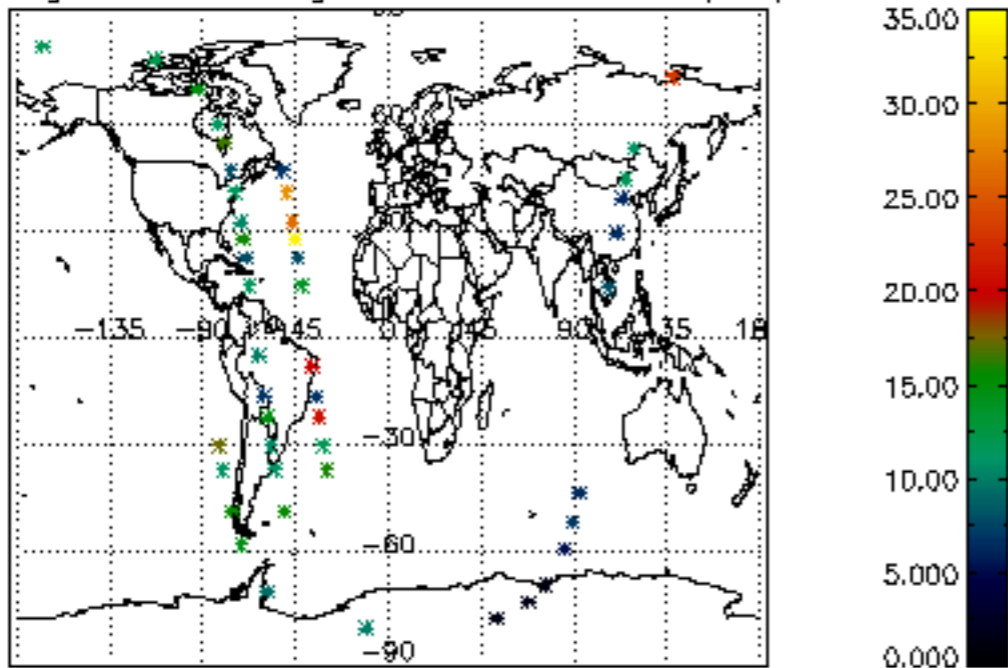
Percentage of cosmic ray hits per profile



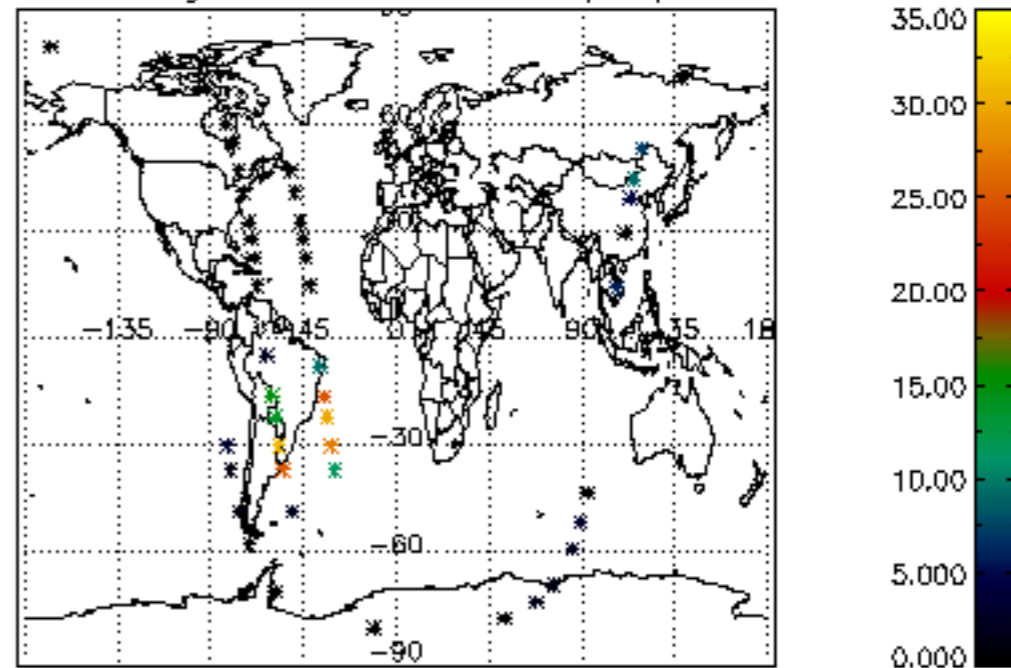
Percentage of datation errors per profile



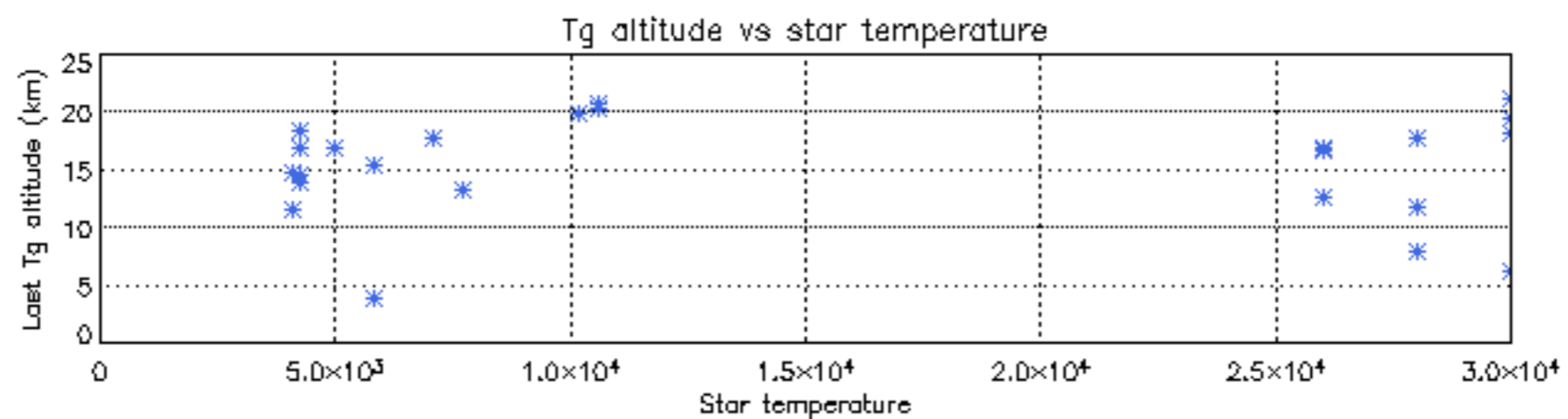
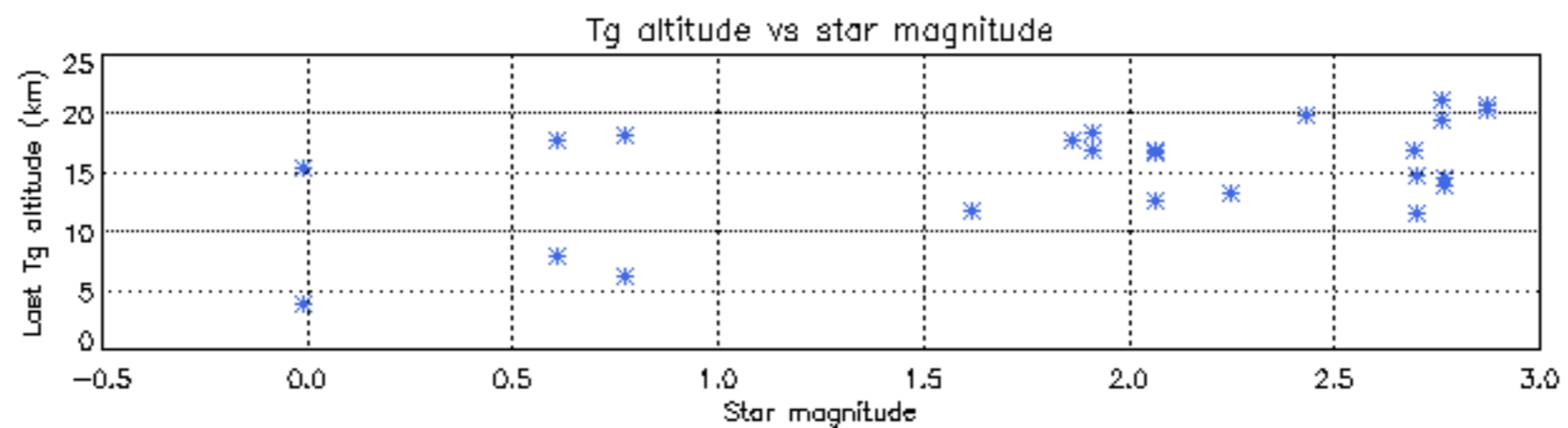
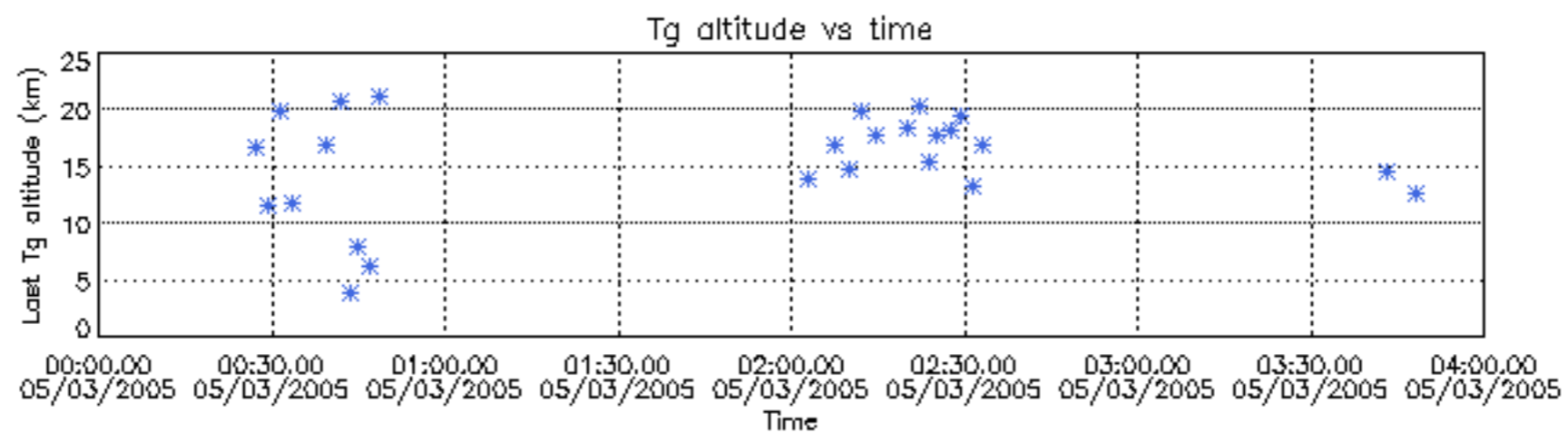
Percentage of star falling outside central band per profile



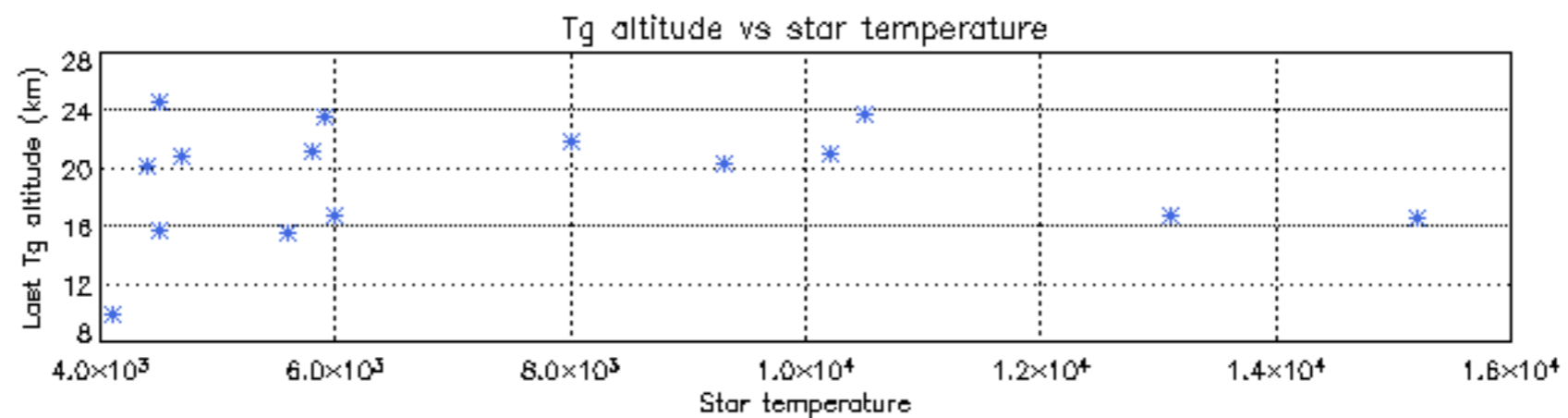
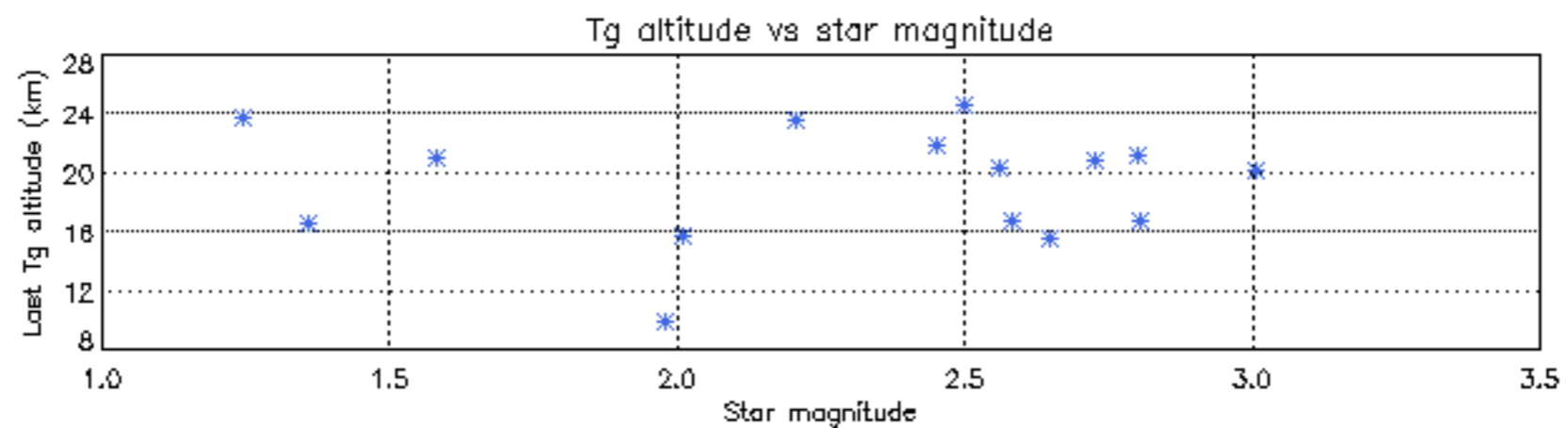
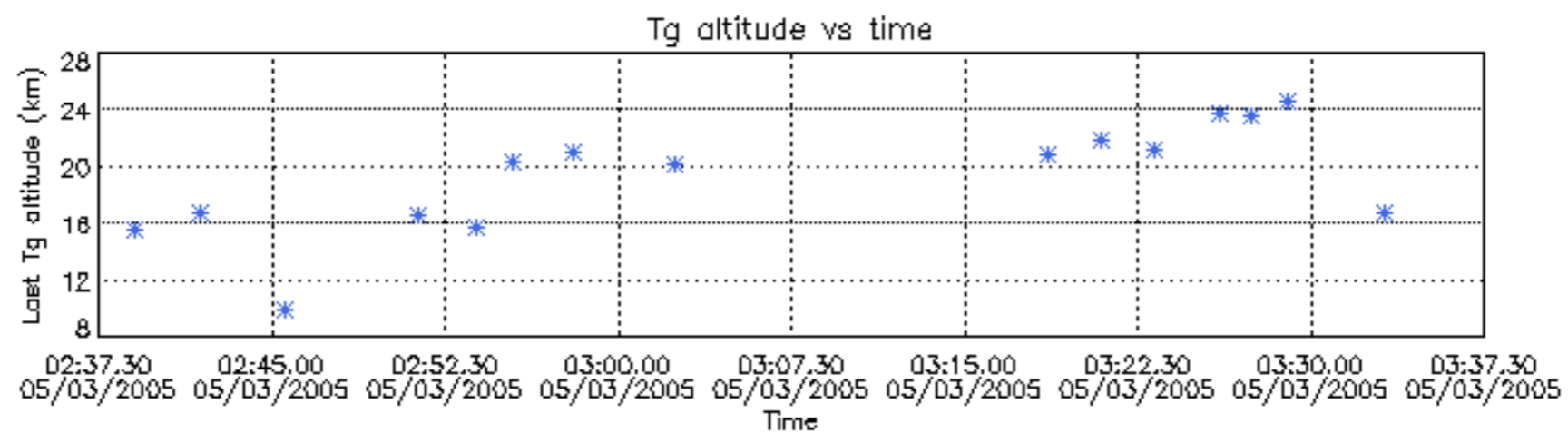
Percentage of saturation errors per profile



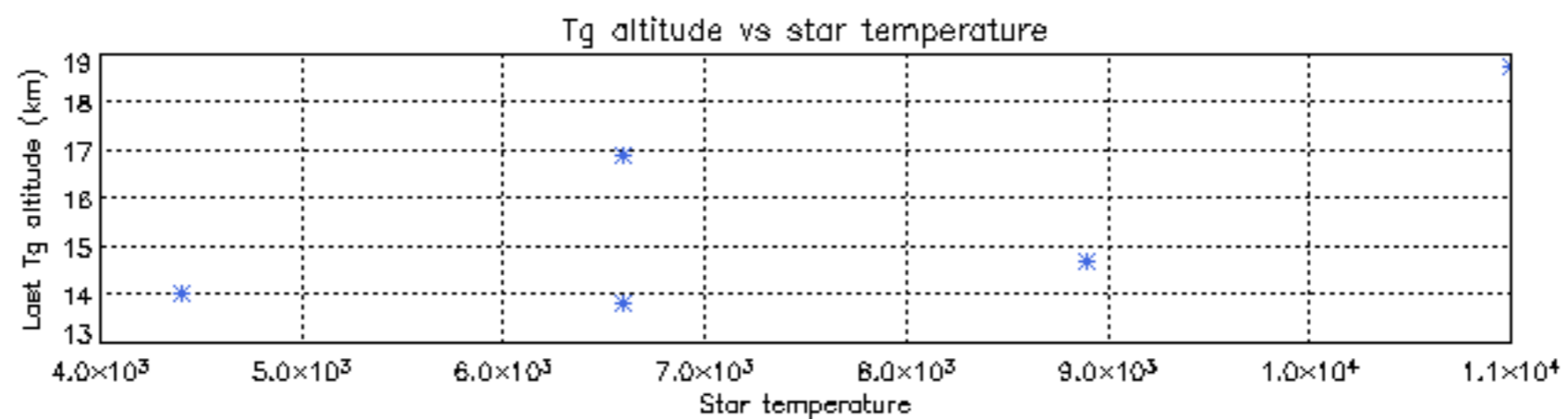
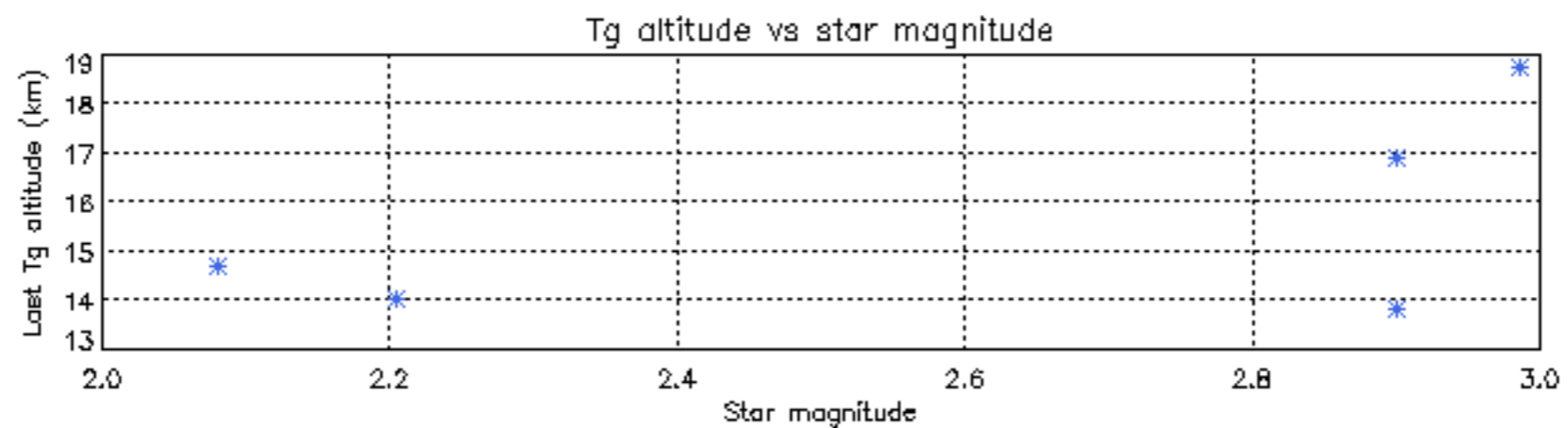
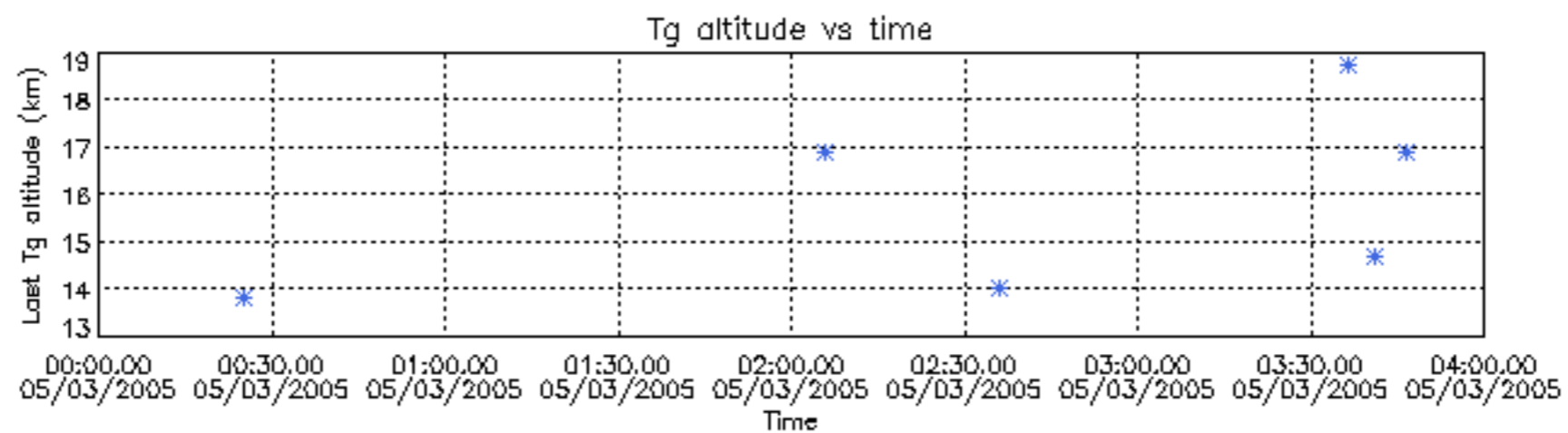
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20050303_232638_000053762035_00145_15730_1918.N1

1; 47.7; 03-MAR-2005 23:26:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;15730
2; 242.0; 03-MAR-2005 23:29:53; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;15730
3; 348.1; 03-MAR-2005 23:31:39; Dark ; 53.0; 131; Gam Lup ; 2.80; 26000;occ; 106; 0;15730
4; 458.7; 03-MAR-2005 23:33:29; Dark ; 51.5; 4; Alp1Cen ;-0.01; 5800;occ; 103; 0;15730
5; 537.2; 03-MAR-2005 23:34:48; Dark ; 48.5; 10; Bet Cen ; 0.61; 28000;occ; 97; 0;15730
6; 684.5; 03-MAR-2005 23:37:15; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;15730
7; 838.9; 03-MAR-2005 23:39:49; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;15730
8; 991.6; 03-MAR-2005 23:42:22; Dark ; 38.5; 91; Kap Vel ; 2.49; 26000;occ; 77; 0;15730
9; 1190.2; 03-MAR-2005 23:45:41; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;15730
10; 1351.8; 03-MAR-2005 23:48:22; Dark ; 66.0; 106; 9Bet Crv ; 2.65; 5600;occ; 132; 0;15730
11; 1523.6; 03-MAR-2005 23:51:14; Dark ; 62.5; 100; 4Gam Crv ; 2.58; 13100;occ; 125; 0;15730
12; 1758.3; 03-MAR-2005 23:55:09; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;15730
13; 2117.5; 04-MAR-2005 00:01:08; Bright; 41.0; 22; 32Alp Leo ; 1.36; 15200;occ; 82; 0;15730
14; 2269.4; 04-MAR-2005 00:03:40; Bright; 41.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 83; 0;15730
15; 2364.2; 04-MAR-2005 00:05:15; Bright; 48.5; 96; 68Del Leo ; 2.56; 9300;occ; 97; 0;15730
16; 2513.2; 04-MAR-2005 00:07:44; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;15730
17; 2790.5; 04-MAR-2005 00:12:21; Bright; 43.0; 174; 52Psi UMa ; 3.00; 4400;occ; 86; 0;15730
18; 2962.5; 04-MAR-2005 00:15:13; Bright; 39.0; 82; 48Bet UMa ; 2.37; 10600;occ; 78; 0;15730
19; 3044.7; 04-MAR-2005 00:16:35; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;15730
20; 3219.4; 04-MAR-2005 00:19:30; Bright; 49.5; 32; 77Eps UMa ; 1.76; 11000;occ; 99; 0;15730
21; 3312.8; 04-MAR-2005 00:21:03; Bright; 51.5; 55; 79Zet UMa ; 2.06; 10200;occ; 103; 0;15730
22; 3433.9; 04-MAR-2005 00:23:04; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;15730
23; 3753.8; 04-MAR-2005 00:28:24; Bright; 46.0; 119; 14Eta Dra ; 2.73; 4700;occ; 92; 0;15730
24; 3888.7; 04-MAR-2005 00:30:39; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;15730
25; 4024.9; 04-MAR-2005 00:32:56; Bright; 45.5; 130; 23Bet Dra ; 2.80; 5800;occ; 91; 0;15730
26; 4194.3; 04-MAR-2005 00:35:45; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;15730
27; 4288.1; 04-MAR-2005 00:37:19; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;15730
28; 4382.2; 04-MAR-2005 00:38:53; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;15730
29; 4567.0; 04-MAR-2005 00:41:58; Dark ; 92.5; 133; 40Zet Her ; 2.81; 6000;occ; 185; 0;15730
30; 4812.2; 04-MAR-2005 00:46:03; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;15730
31; 5038.2; 04-MAR-2005 00:49:49; Dark ; 79.5; 59; 55Alp Oph ; 2.08; 8900;occ; 159; 0;15730
32; 5194.8; 04-MAR-2005 00:52:25; Dark ; 65.0; 126; 60Bet Oph ; 2.77; 4250;occ; 130; 0;15730
33; 5406.4; 04-MAR-2005 00:55:57; Dark ; 18.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 36; 0;15730

/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20050304_005557_000040982035_00145_15730_1919.N1

1; -629.5; 04-MAR-2005 00:55:57; Dark ; 42.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 84; 0;15730
2; -517.9; 04-MAR-2005 00:57:49; Dark ; 45.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 91; 0;15730
3; -326.9; 04-MAR-2005 01:01:00; Dark ; 49.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 99; 0;15730
4; -93.3; 04-MAR-2005 01:04:53; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;15730
5; 48.9; 04-MAR-2005 01:07:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;15731
6; 242.3; 04-MAR-2005 01:10:29; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;15731
7; 349.2; 04-MAR-2005 01:12:16; Dark ; 51.0; 131; Gam Lup ; 2.80; 26000;occ; 102; 0;15731
8; 459.1; 04-MAR-2005 01:14:06; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;15731
9; 537.7; 04-MAR-2005 01:15:24; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;15731
10; 684.8; 04-MAR-2005 01:17:51; Dark ; 51.0; 12; Alp1Cru ; 0.77; 30000;occ; 102; 0;15731
11; 839.4; 04-MAR-2005 01:20:26; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;15731
12; 991.4; 04-MAR-2005 01:22:58; Dark ; 36.5; 91; Kap Vel ; 2.49; 26000;occ; 73; 0;15731
13; 1190.3; 04-MAR-2005 01:26:17; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;15731
14; 1352.3; 04-MAR-2005 01:28:59; Dark ; 63.0; 106; 9Bet Crv ; 2.65; 5600;occ; 126; 0;15731
15; 1523.7; 04-MAR-2005 01:31:50; Dark ; 63.0; 100; 4Gam Crv ; 2.58; 13100;occ; 126; 0;15731
16; 1758.2; 04-MAR-2005 01:35:45; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;15731
17; 2117.3; 04-MAR-2005 01:41:44; Bright; 41.0; 22; 32Alp Leo ; 1.36; 15200;occ; 82; 0;15731
18; 2269.1; 04-MAR-2005 01:44:16; Bright; 43.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 87; 0;15731
19; 2363.5; 04-MAR-2005 01:45:50; Bright; 47.5; 96; 68Del Leo ; 2.56; 9300;occ; 95; 0;15731
20; 2513.6; 04-MAR-2005 01:48:20; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;15731
21; 2789.9; 04-MAR-2005 01:52:56; Bright; 44.5; 174; 52Psi UMa ; 3.00; 4400;occ; 89; 0;15731
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