

GOMOS Daily Report 07-JAN-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	09JAN2005 05:01:15

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (07JAN2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (08JAN2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	28
Nb of prods with errors	0

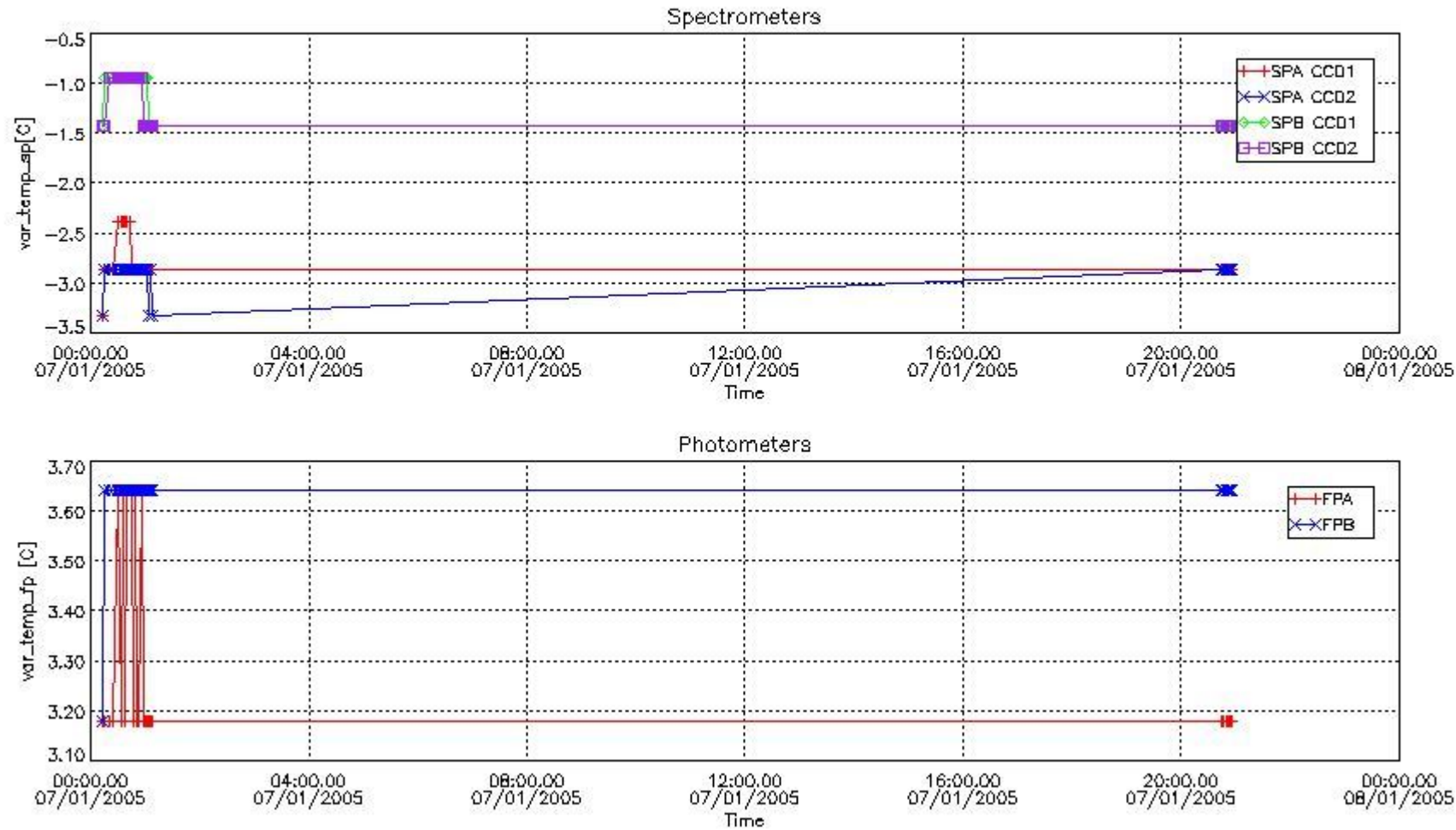
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20050107_001253_000000462033_00345_14928_0000.N1	07-JAN-2005 00:12:53	Twilight	45.500	104	27Bet Lib	2.6140	13100.	91	14928	No
2	GOM_TRA_1PNPDE20050107_001515_000000442033_00345_14928_0001.N1	07-JAN-2005 00:15:15	Twilight	44.000	80	7Del Sco	2.3160	30000.	88	14928	No
3	GOM_TRA_1PNPDE20050107_002035_000000922033_00345_14928_0002.N1	07-JAN-2005 00:20:35	Dark	92.000	15	67Alp Vir	0.97600	28000.	184	14928	No
4	GOM_TRA_1PNPDE20050107_002341_000000432033_00345_14928_0003.N1	07-JAN-2005 00:23:41	Dark	43.000	78	Alp Lup	2.3040	28000.	86	14928	No
5	GOM_TRA_1PNPDE20050107_002911_000000472033_00346_14929_0004.N1	07-JAN-2005 00:29:11	Dark	46.500	64	Gam Cen	2.2000	10600.	93	14929	No
6	GOM_TRA_1PNPDE20050107_003406_000000392033_00346_14929_0005.N1	07-JAN-2005 00:34:06	Dark	38.500	124	The Car	2.7640	30000.	77	14929	No
7	GOM_TRA_1PNPDE20050107_003548_000000402033_00346_14929_0006.N1	07-JAN-2005 00:35:48	Dark	40.000	29	Bet Car	1.6720	10200.	80	14929	No
8	GOM_TRA_1PNPDE20050107_003726_000000422033_00346_14929_0007.N1	07-JAN-2005 00:37:26	Dark	42.000	71	lot Car	2.2460	7700.0	84	14929	No
9	GOM_TRA_1PNPDE20050107_003853_000000452033_00346_14929_0008.N1	07-JAN-2005 00:38:53	Dark	45.000	41	Eps Car	1.8600	4100.0	90	14929	No
10	GOM_TRA_1PNPDE20050107_004250_000000452033_00346_14929_0009.N1	07-JAN-2005 00:42:50	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	14929	No
11	GOM_TRA_1PNPDE20050107_004419_000000462033_00346_14929_0010.N1	07-JAN-2005 00:44:19	Dark	45.500	70	Zet Pup	2.2460	39000.	91	14929	No
12	GOM_TRA_1PNPDE20050107_004612_000000472033_00346_14929_0011.N1	07-JAN-2005 00:46:12	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	14929	No
13	GOM_TRA_1PNPDE20050107_004853_000000472033_00346_14929_0012.N1	07-JAN-2005 00:48:53	Dark	47.000	23	21Eps CMa	1.5020	26000.	94	14929	No
14	GOM_TRA_1PNPDE20050107_005022_000000442033_00346_14929_0013.N1	07-JAN-2005 00:50:22	Twilight	44.000	179	24Omi2CMa	3.0320	24000.	88	14929	No
15	GOM_TRA_1PNPDE20050107_005242_000000472033_00346_14929_0014.N1	07-JAN-2005 00:52:42	Twilight	47.000	1	9Alp CMa	-1.4400	11000.	94	14929	No
16	GOM_TRA_1PNPDE20050107_005552_000000522033_00346_14929_0015.N1	07-JAN-2005 00:55:52	Bright	52.000	7	19Bet Ori	0.10000	14000.	104	14929	No
17	GOM_TRA_1PNPDE20050107_005738_000000442033_00346_14929_0016.N1	07-JAN-2005 00:57:38	Bright	43.500	30	46Eps Ori	1.6940	30000.	87	14929	No
18	GOM_TRA_1PNPDE20050107_010018_000000662033_00346_14929_0017.N1	07-JAN-2005 01:00:18	Bright	65.500	8	10Alp CMi	0.40000	6500.0	131	14929	No
19	GOM_TRA_1PNPDE20050107_010254_000000582033_00346_14929_0018.N1	07-JAN-2005 01:02:54	Bright	58.000	44	24Gam Gem	1.9280	11000.	116	14929	No
20	GOM_TRA_1PNPDE20050107_010434_000000472033_00346_14929_0019.N1	07-JAN-2005 01:04:34	Bright	46.500	151	13Mu Gem	2.8900	3000.0	93	14929	No
21	GOM_TRA_1PNPDE20050107_010604_000000382033_00346_14929_0020.N1	07-JAN-2005 01:06:04	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	14929	No
22	GOM_TRA_1PNPDE20050107_010728_000000382033_00346_14929_0021.N1	07-JAN-2005 01:07:28	Bright	37.500	114	3lot Aur	2.6930	4600.0	75	14929	No
23	GOM_TRA_1PNPDE20050107_204443_000000432033_00358_14941_0000.N1	07-JAN-2005 20:44:43	Dark	42.500	71	lot Car	2.2460	7700.0	85	14941	No
24	GOM_TRA_1PNPDE20050107_204609_000000502033_00358_14941_0001.N1	07-JAN-2005 20:46:09	Dark	50.000	41	Eps Car	1.8600	4100.0	100	14941	No
25	GOM_TRA_1PNPDE20050107_205004_000000522033_00358_14941_0002.N1	07-JAN-2005 20:50:04	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	14941	No
26	GOM_TRA_1PNPDE20050107_205136_000000462033_00358_14941_0003.N1	07-JAN-2005 20:51:36	Dark	46.000	70	Zet Pup	2.2460	39000.	92	14941	No
27	GOM_TRA_1PNPDE20050107_205326_000000462033_00358_14941_0004.N1	07-JAN-2005 20:53:26	Dark	45.500	117	Pi Pup	2.7060	3800.0	91	14941	No
28	GOM_TRA_1PNPDE20050107_205606_000000442033_00358_14941_0005.N1	07-JAN-2005 20:56:06	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	14941	No

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



4. Overview of dark signal processing per product

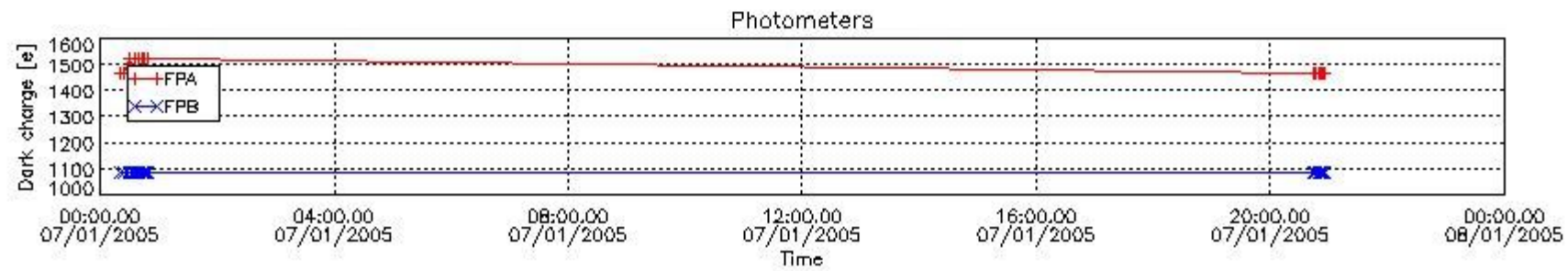
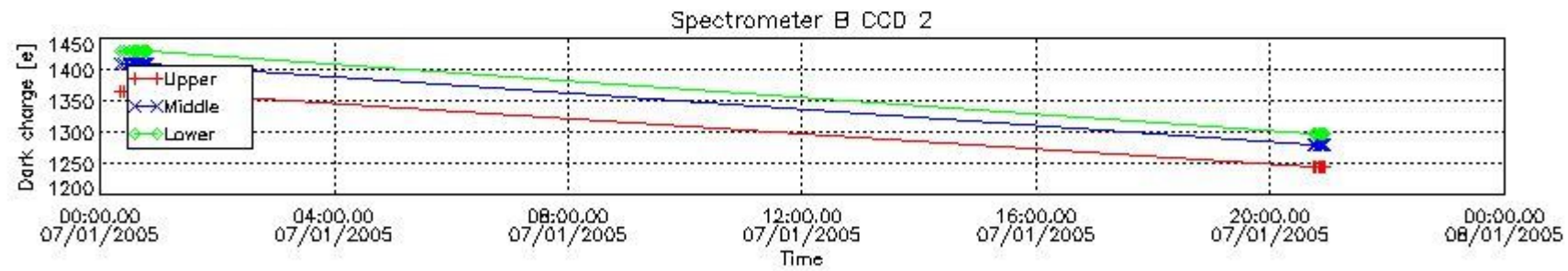
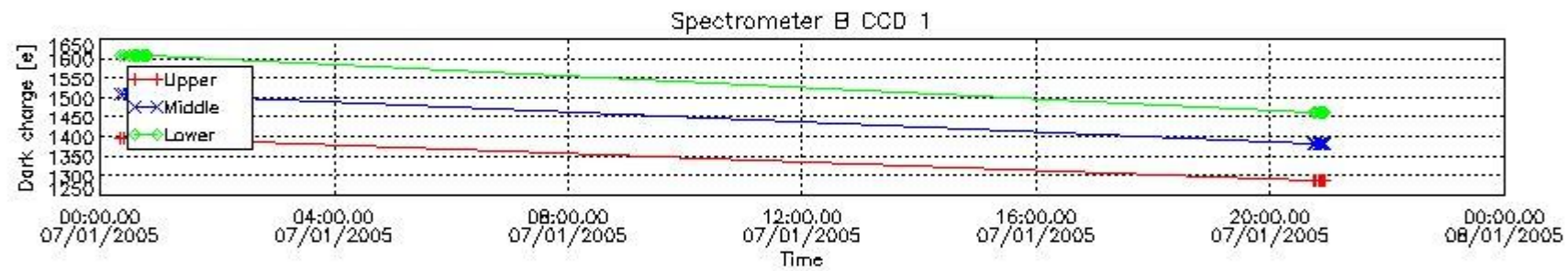
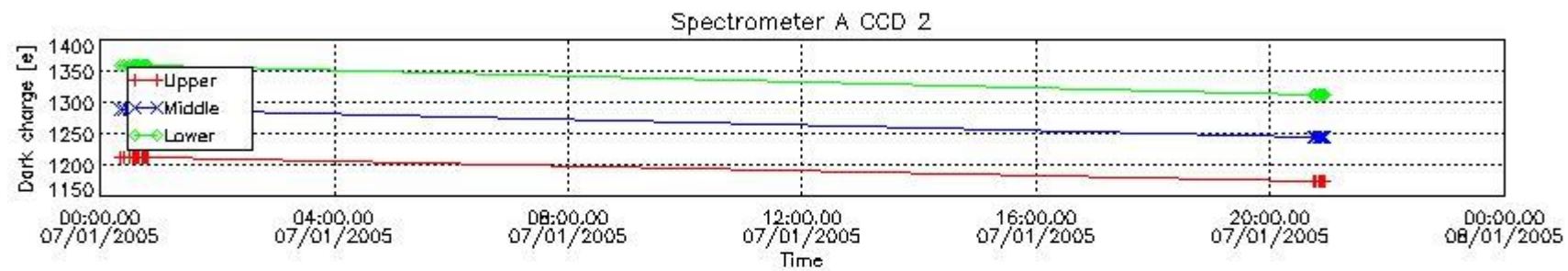
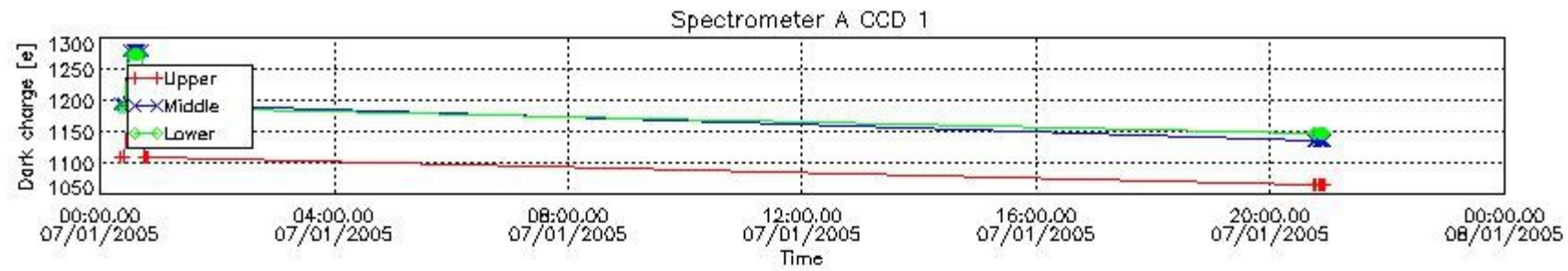
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20050107_204443_000000432033_00358_14941_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20050107_204609_000000502033_00358_14941_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20050107_205004_000000522033_00358_14941_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20050107_205136_000000462033_00358_14941_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20050107_205326_000000462033_00358_14941_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20050107_205606_000000442033_00358_14941_0005.N1	DC map used (0)

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



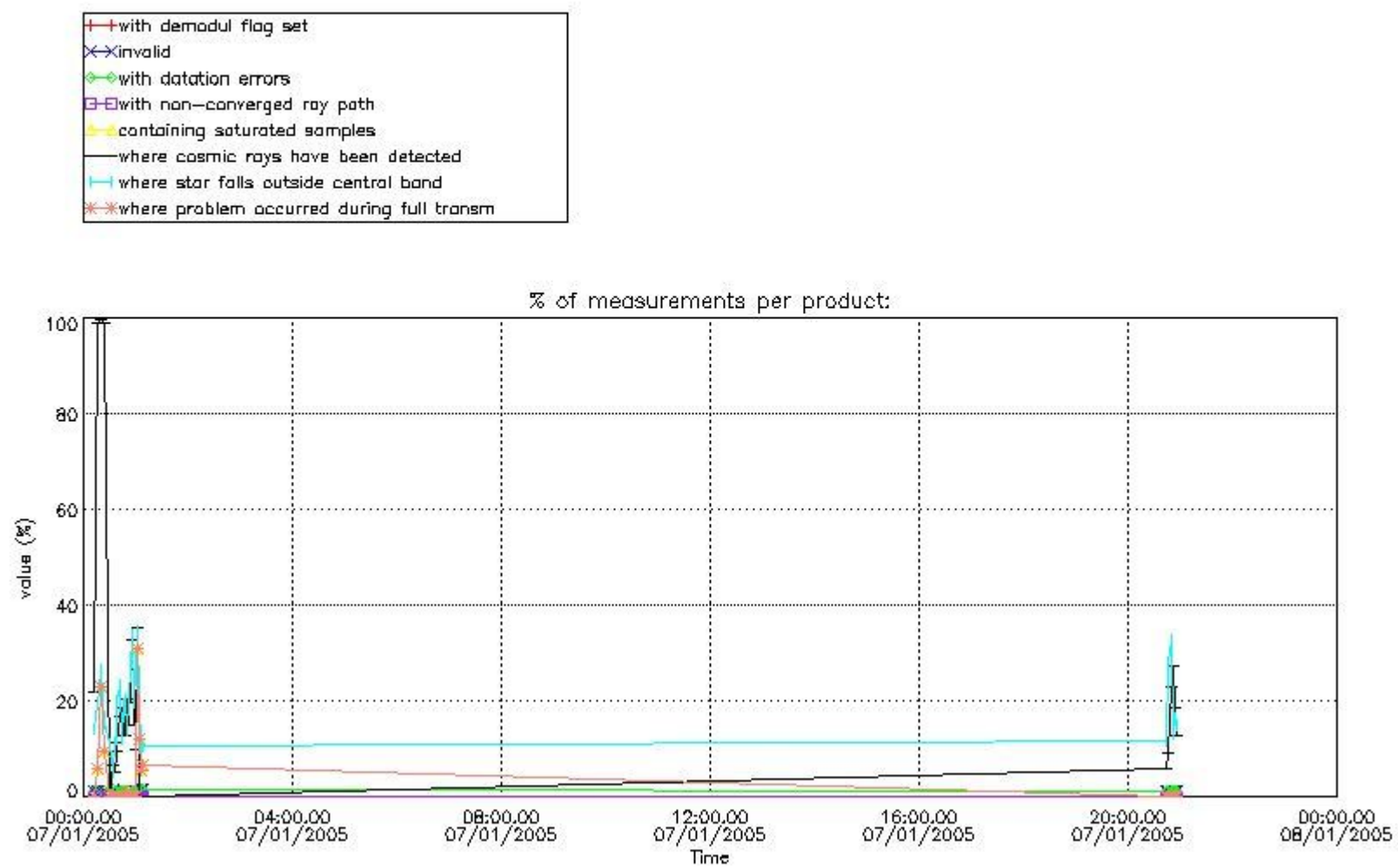
5. Demodulation flag and quality information monitoring

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.

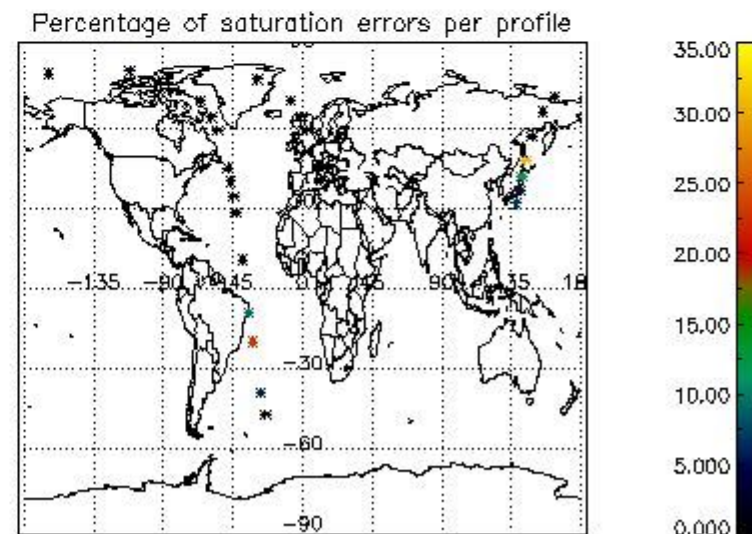
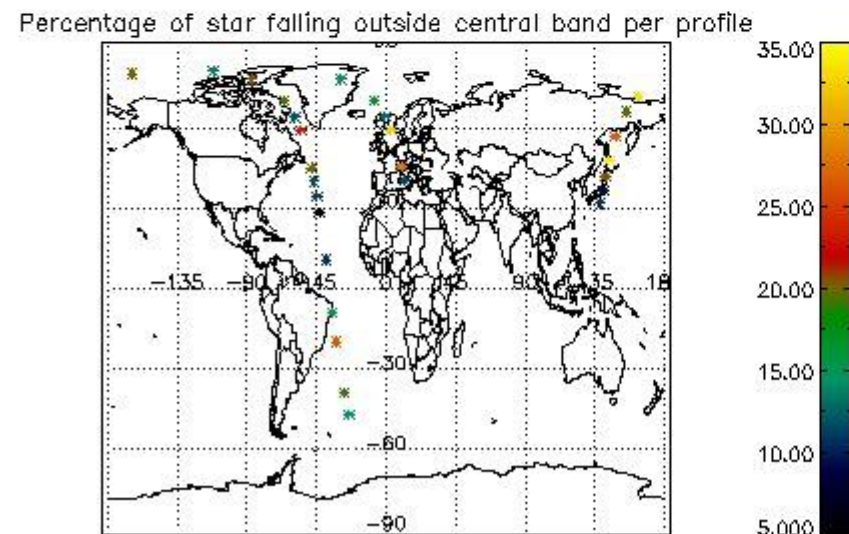
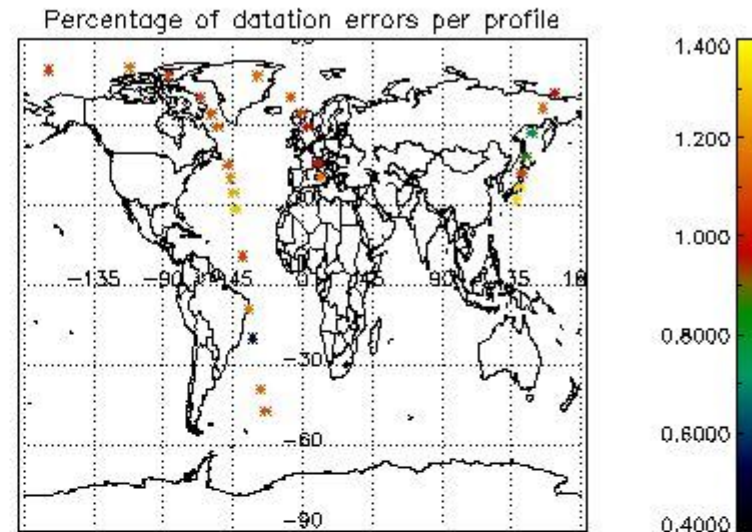
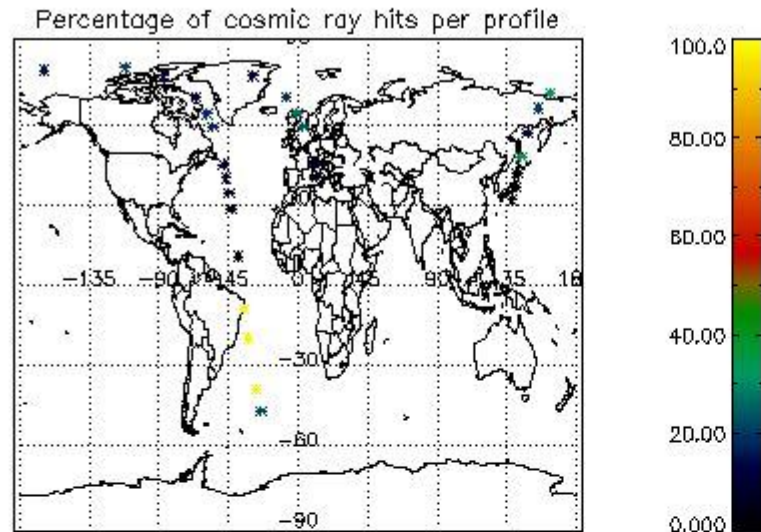
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.0000 %
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)



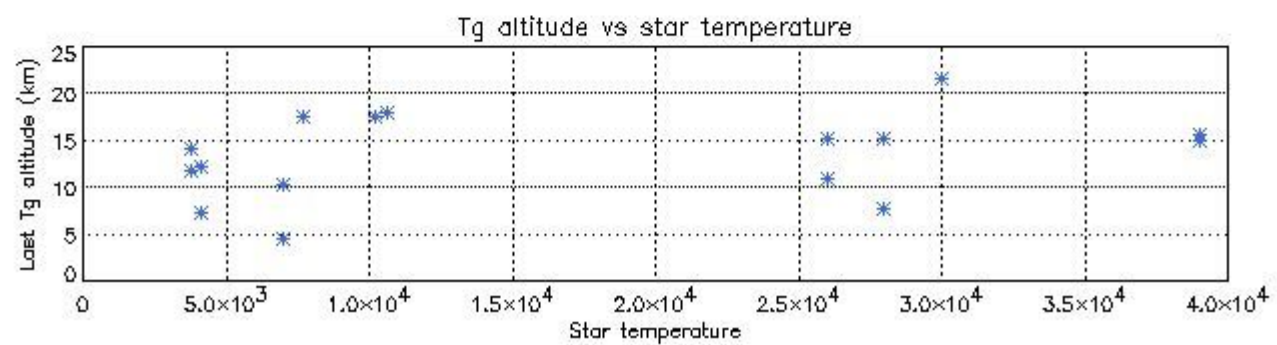
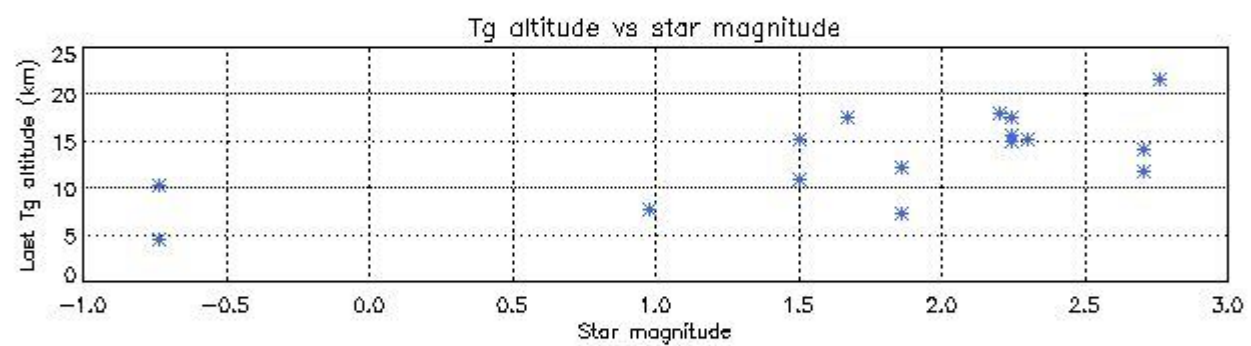
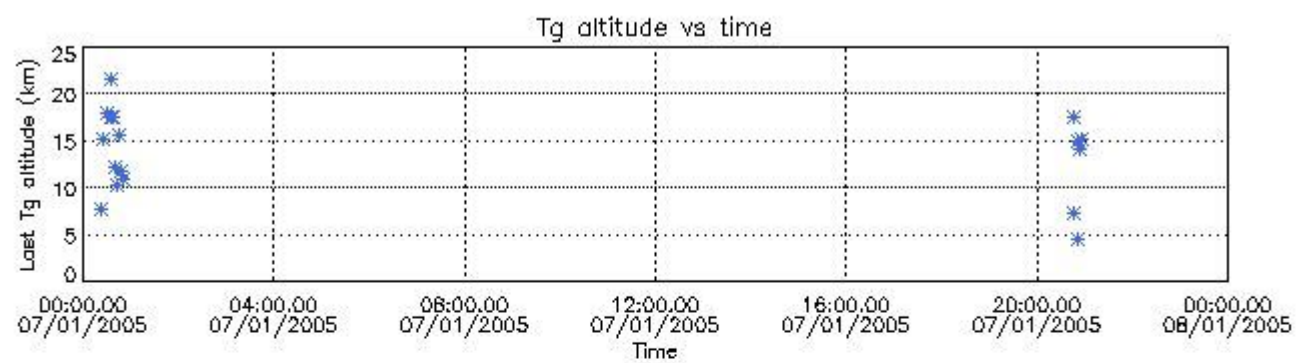
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.648	10.913	13.010
St. deviation:	4.4984	5.4996	1.7074
Maximum:	21.619	18.241	14.818
Minimum:	4.4153	4.5816	11.402
Number of data:	17.000	7.0000	4.0000

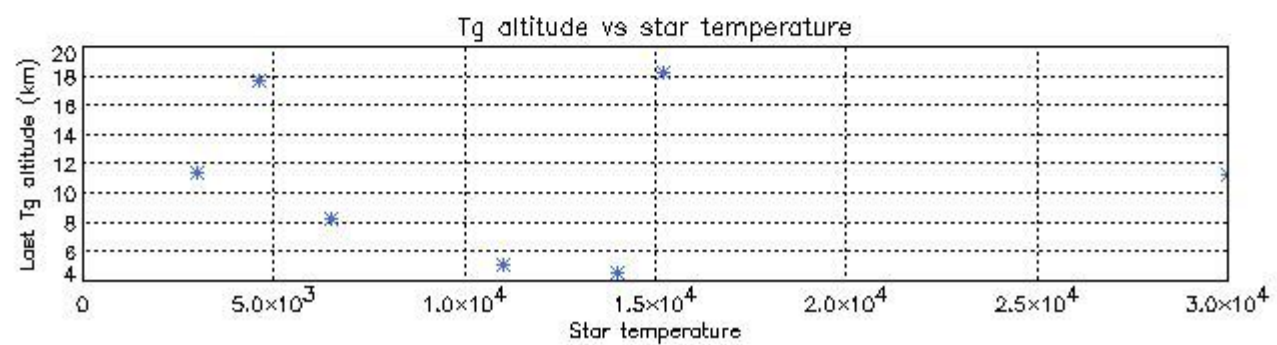
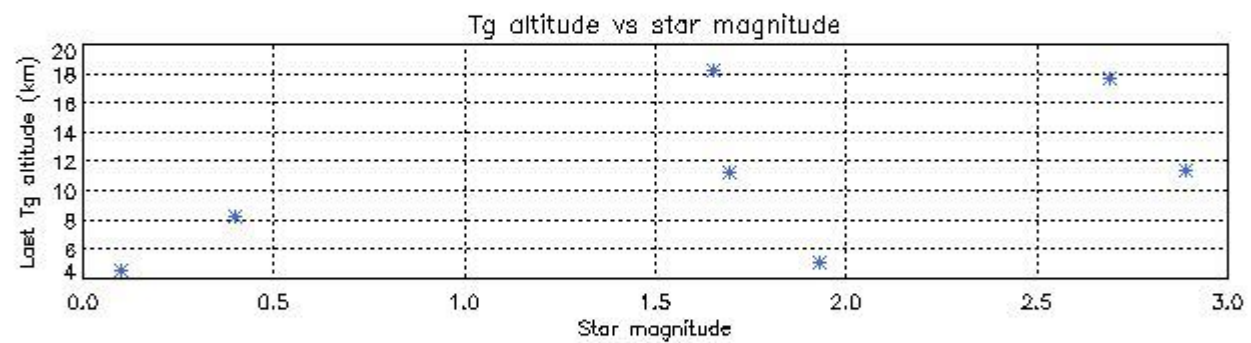
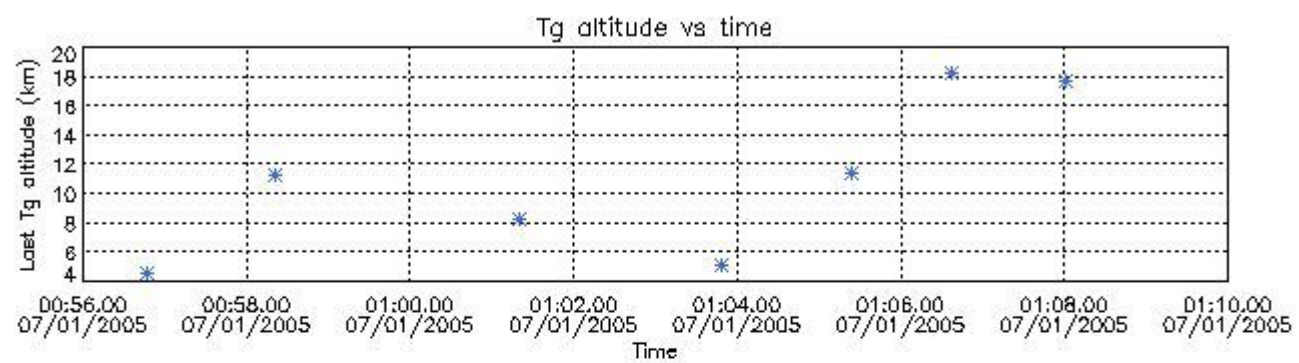
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



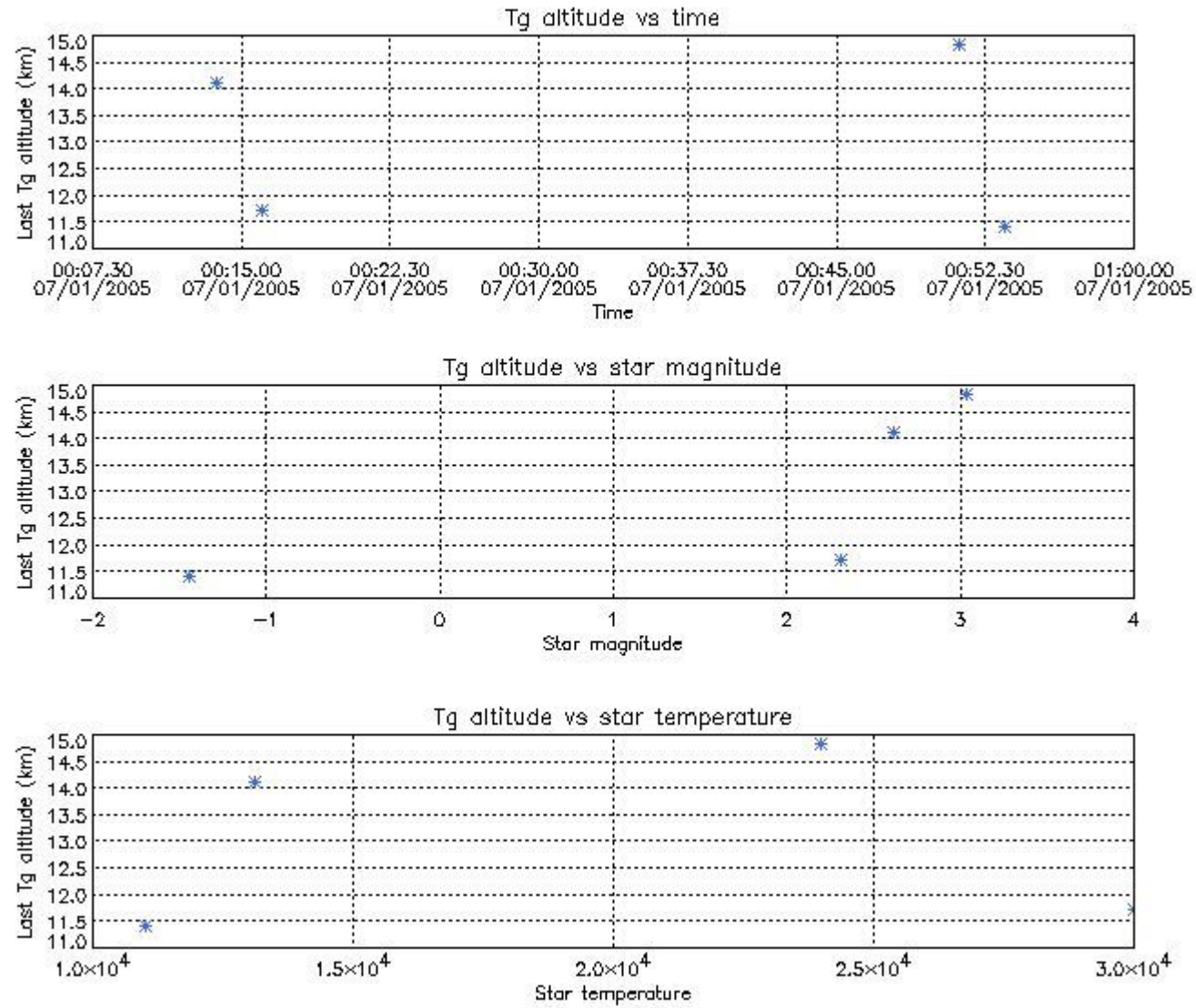
6.3 Plot for BRIGHT limb products

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

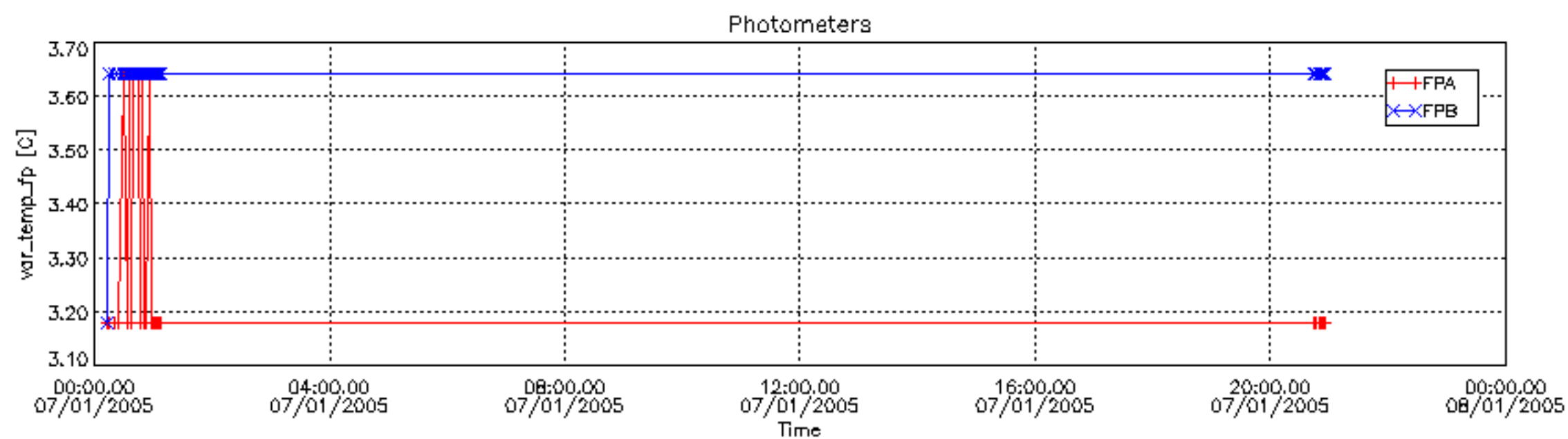
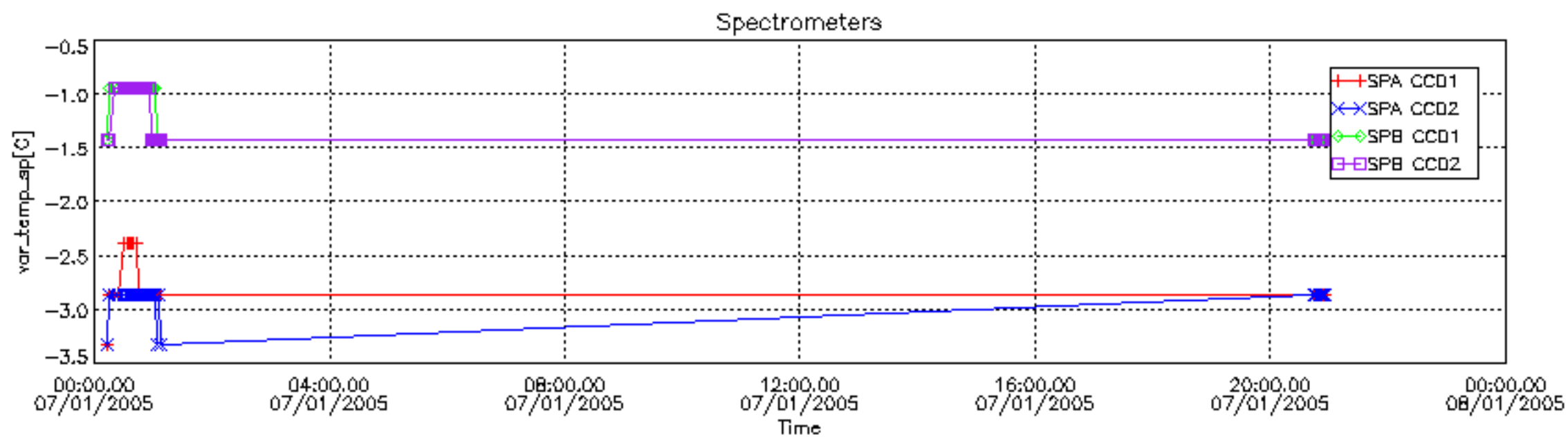
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

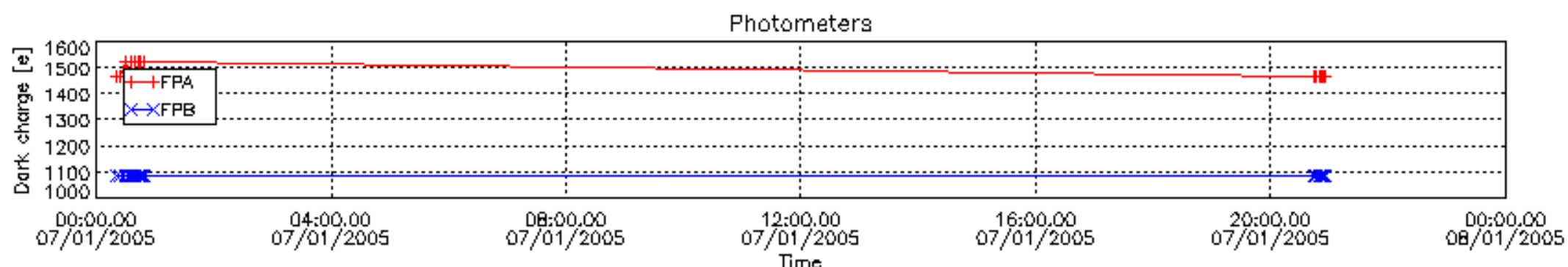
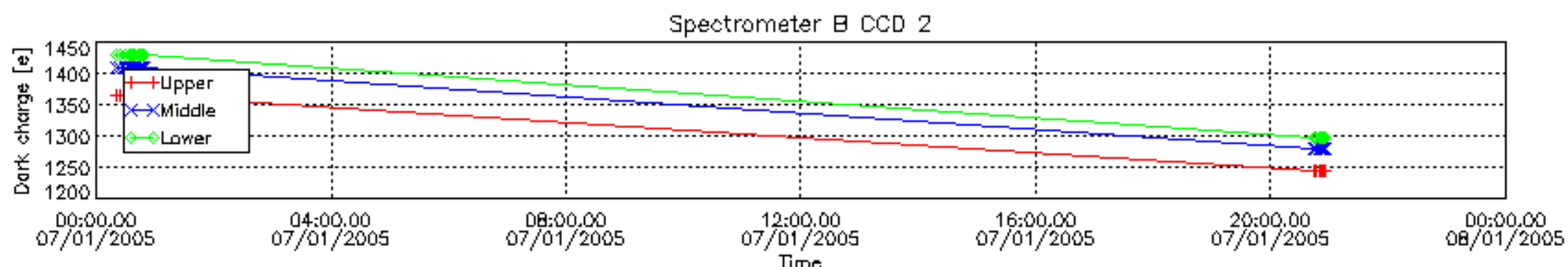
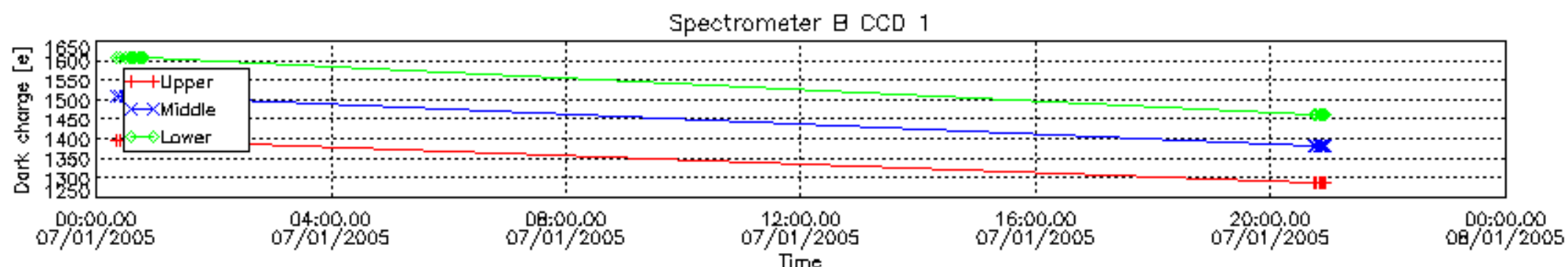
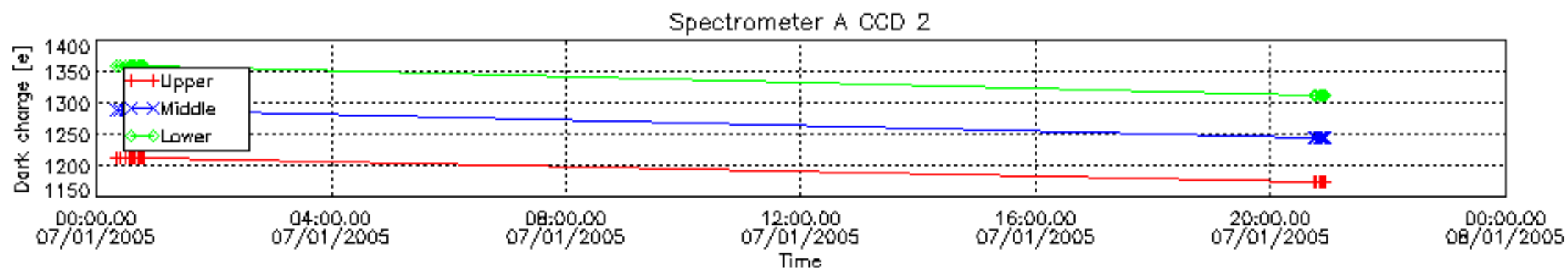
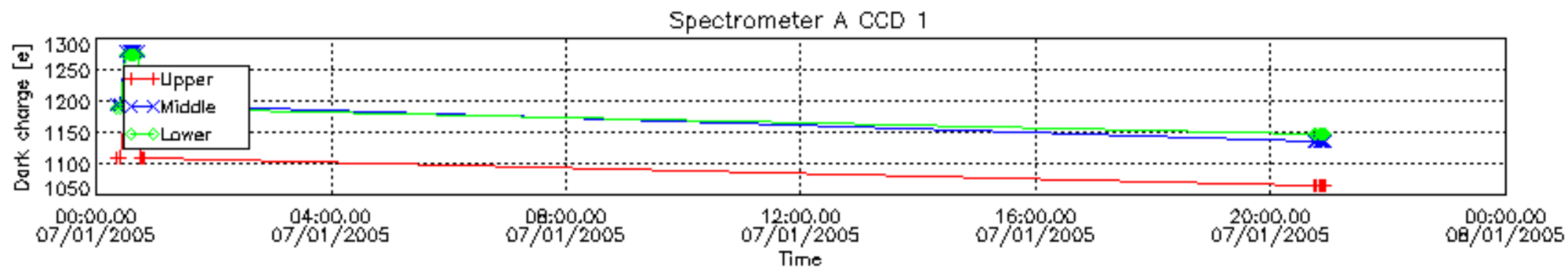
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.0	1447.0	1461.3	1446.9
St. deviation:	5.2818	8.4130	3.8035	7.1245
Maximum:	1572.0	1505.0	1481.0	1474.0
Minimum:	1450.0	1432.0	1444.0	1419.0
Number of data:	18300.	18300.	6700.0	6700.0

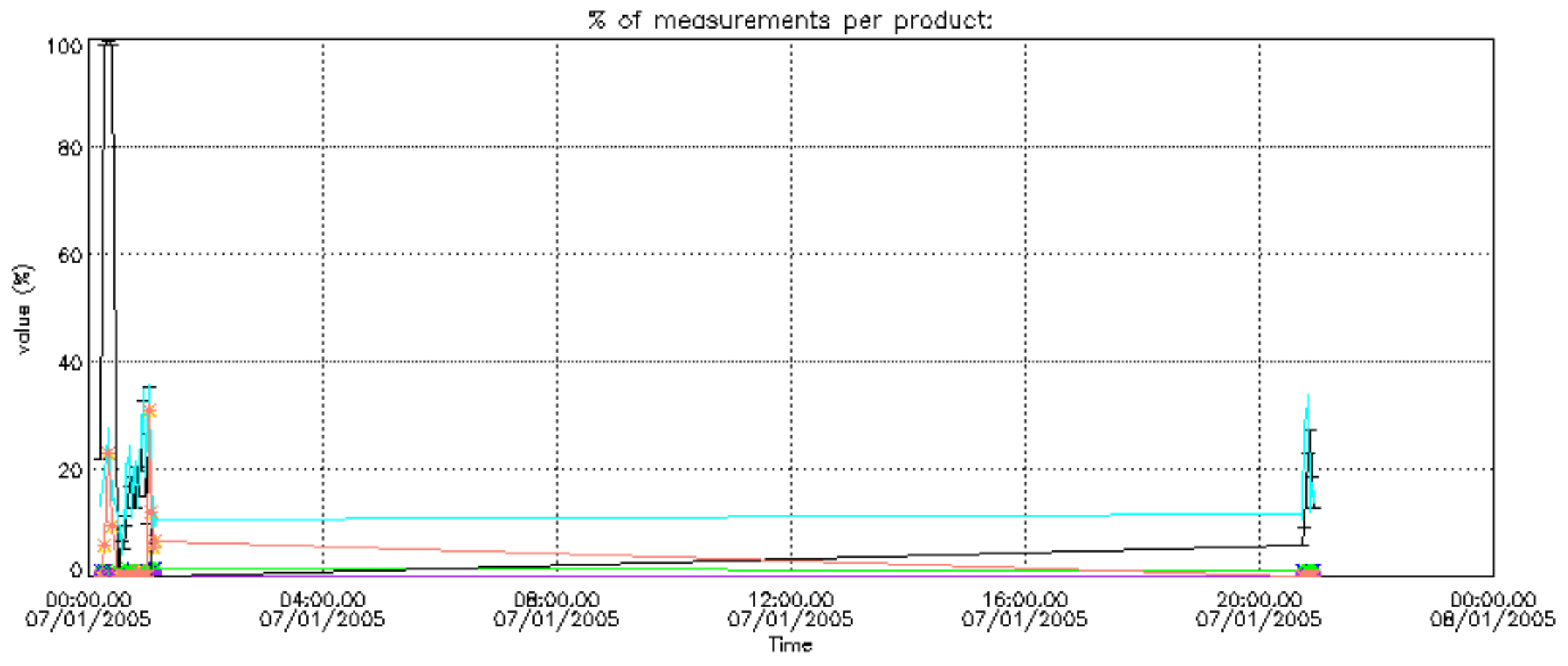
8. Auxiliary Data Files used for the production reported in section 2.2

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.

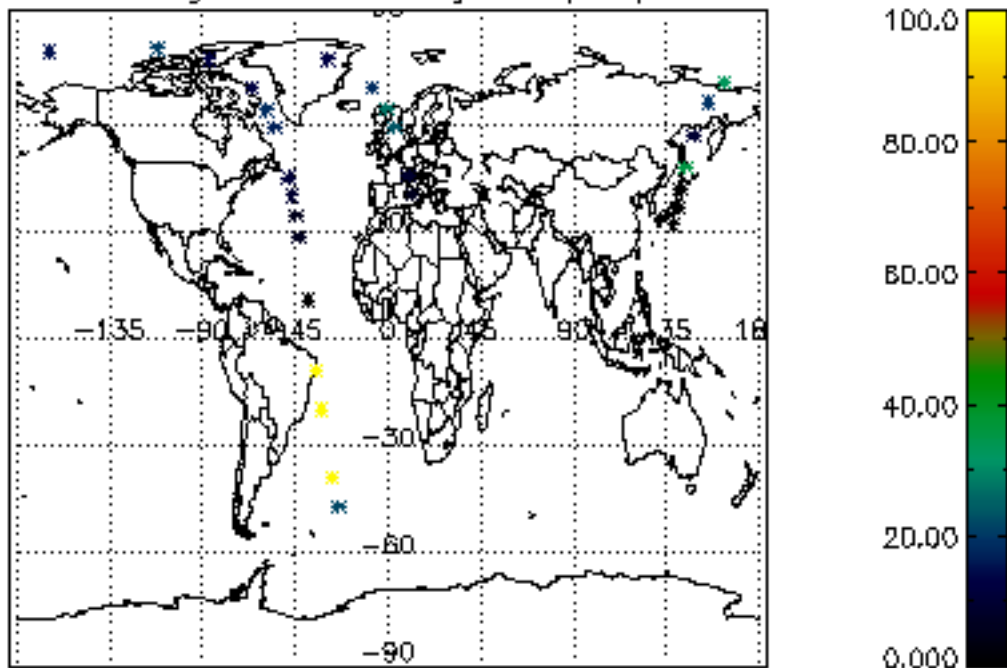
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	07-JAN-2005 00:12:53
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	07-JAN-2005 00:12:53
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	07-JAN-2005 00:12:53
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-JAN-2005 00:12:53
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	07-JAN-2005 00:12:53
ECMWF_FILE	AUX_ECF_AXNECM20050106_061040_20050106_210000_20050107_090000	1	07-JAN-2005 00:12:53
ECMWF_FILE	AUX_ECF_AXNECM20050107_081108_20050107_150000_20050108_030000	23	07-JAN-2005 20:44:43
OPTIONAL_ECMWF_FILE	NOT USED	1	07-JAN-2005 00:12:53
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050106_224025_20050106_192422_20050116_205037	1	07-JAN-2005 00:12:53



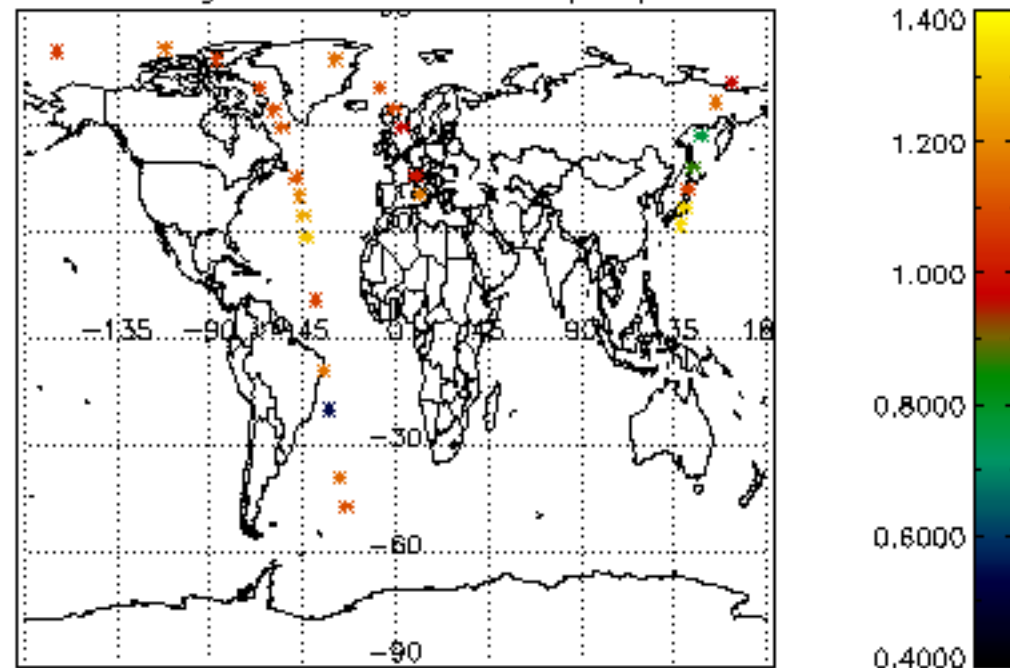




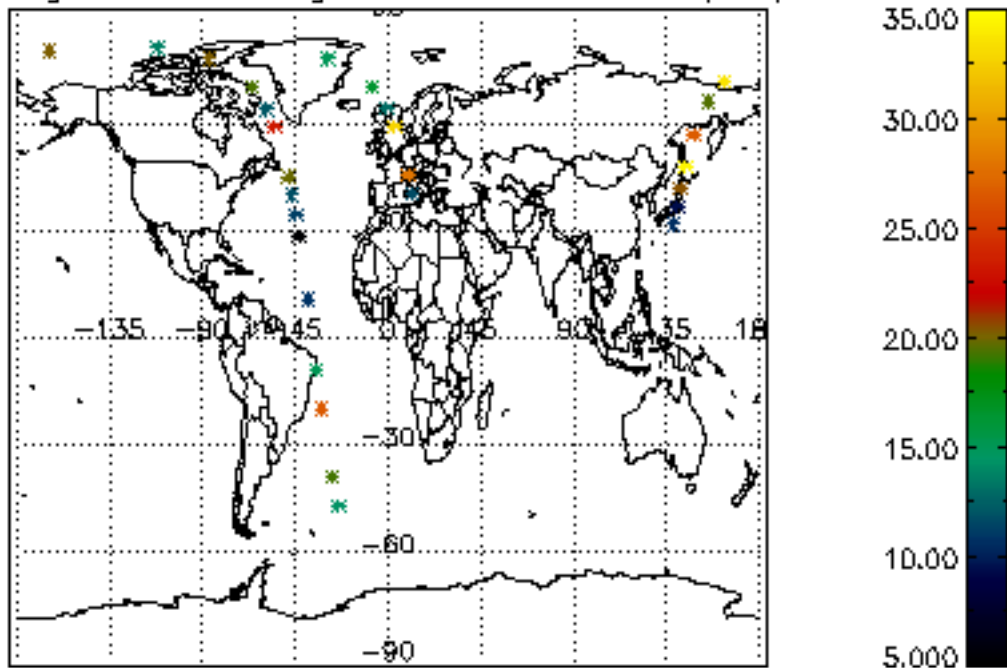
Percentage of cosmic ray hits per profile



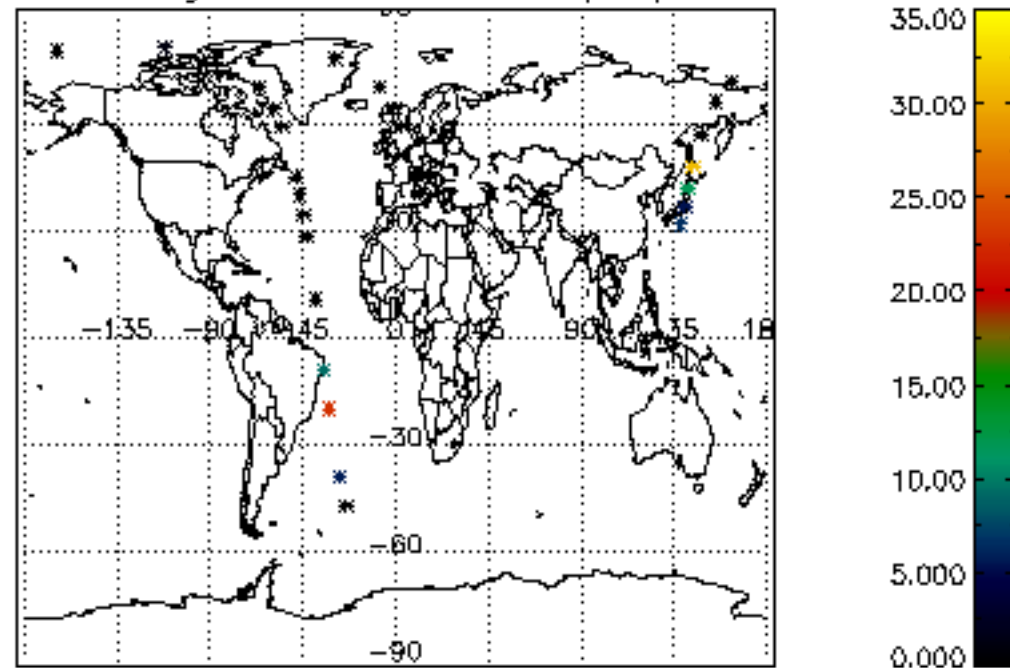
Percentage of datation errors per profile



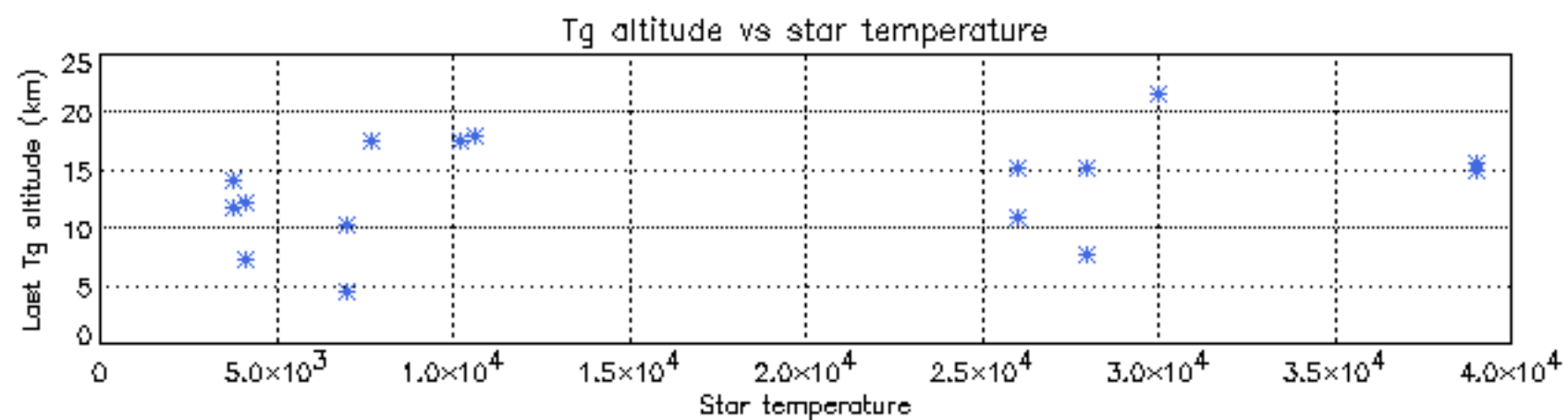
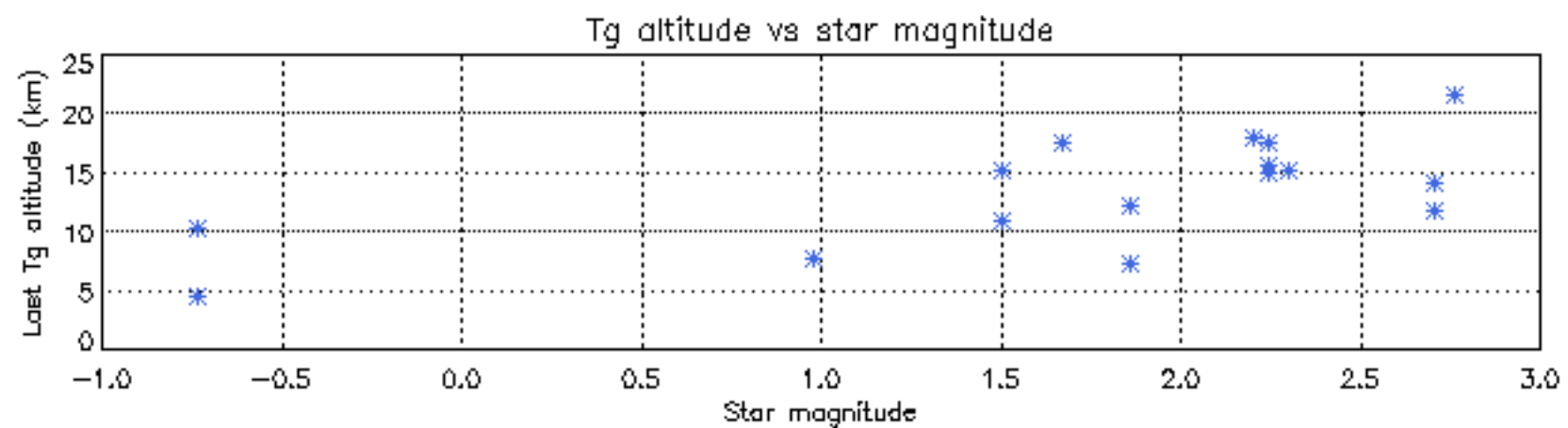
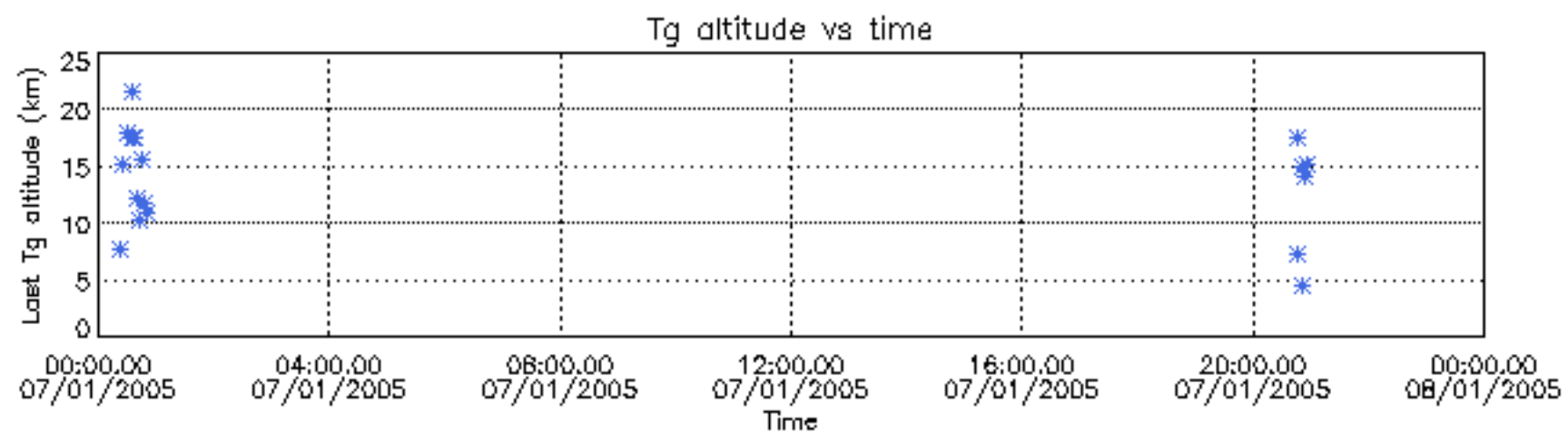
Percentage of star falling outside central band per profile



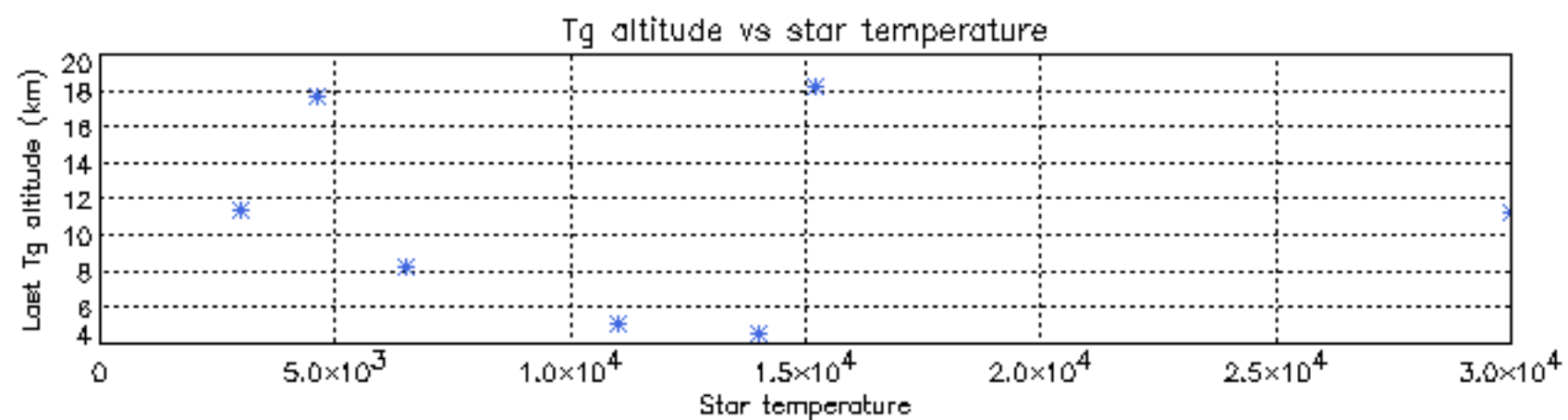
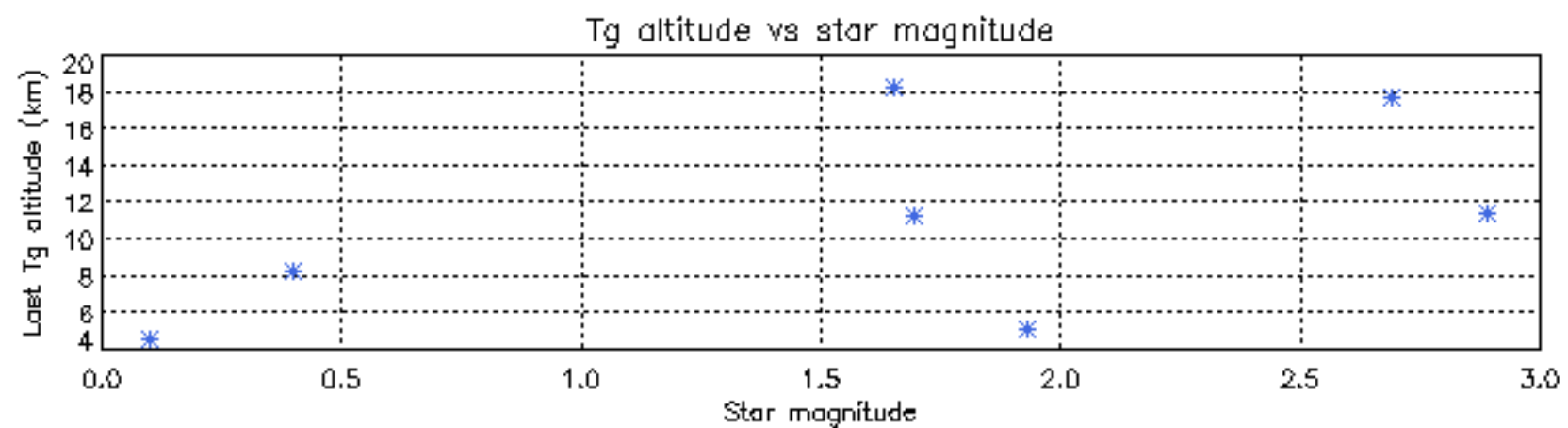
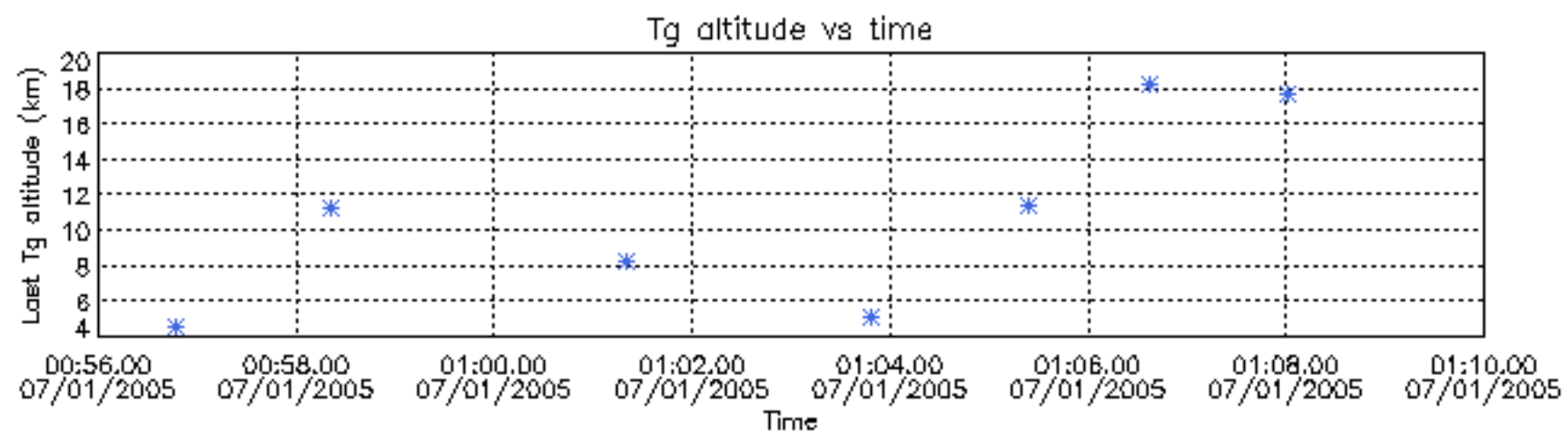
Percentage of saturation errors per profile



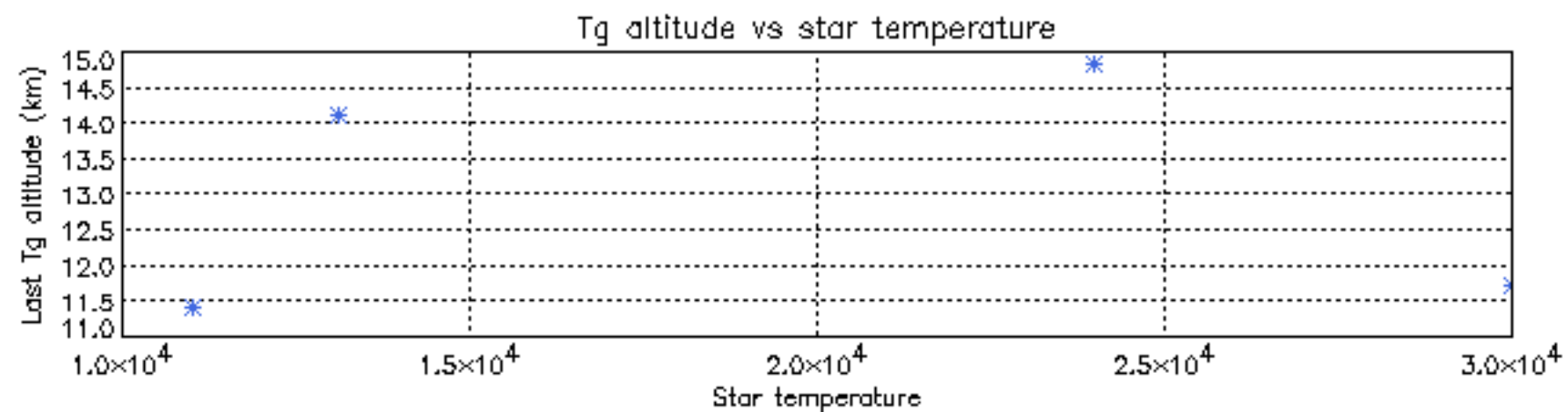
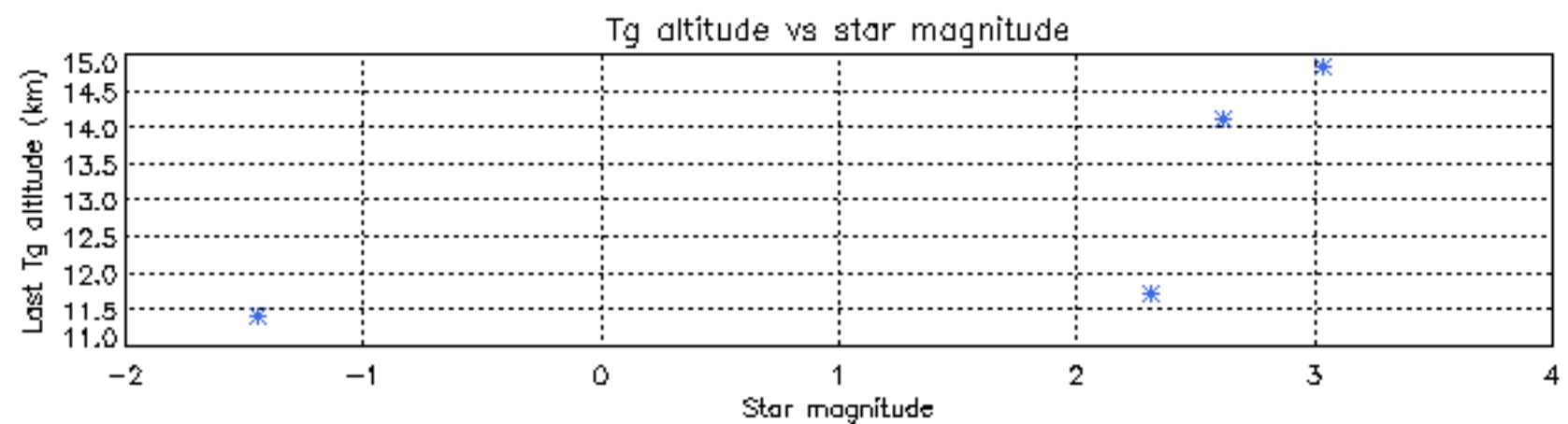
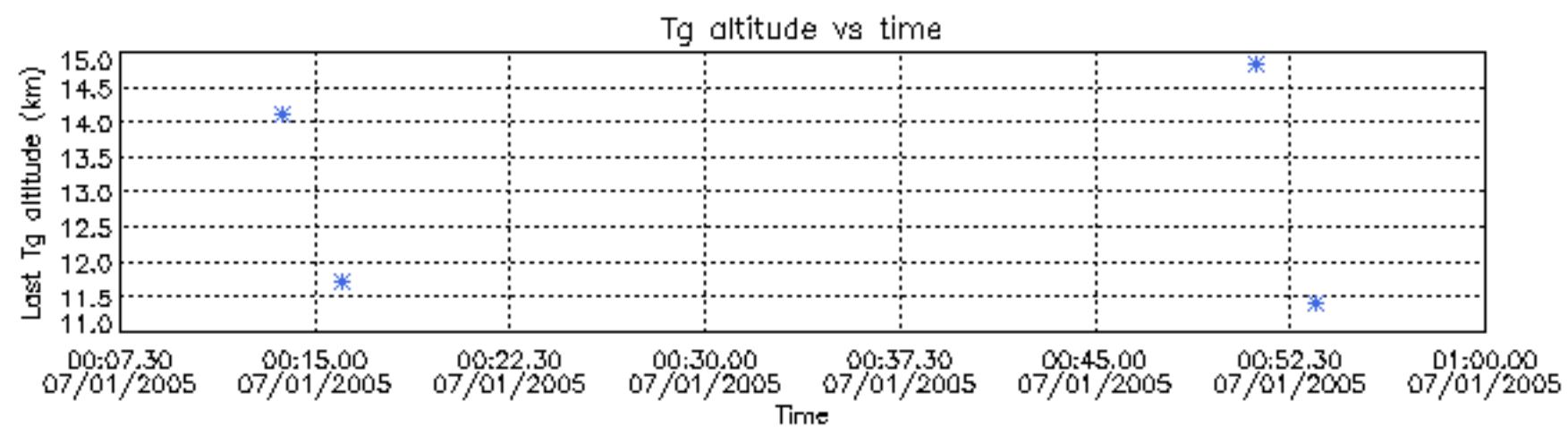
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20050101_000317_000059232033_00259_14842_1596.N1

1; -683.2; 01-JAN-2005 00:03:17; Dark ; 45.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 91; 0;14842
 2; -474.4; 01-JAN-2005 00:06:46; Dark ; 69.0; 15; 67Alp Vir ; 0.98; 28000;occ; 138; 0;14842
 3; -192.1; 01-JAN-2005 00:11:28; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;14842
 4; -105.7; 01-JAN-2005 00:12:55; Dark ; 45.0; 95; Zet Cen ; 2.55; 26000;occ; 90; 0;14842
 5; -2.3; 01-JAN-2005 00:14:38; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;14842
 6; 106.9; 01-JAN-2005 00:16:27; Dark ; 47.0; 64; Gam Cen ; 2.20; 10600;occ; 94; 0;14843
 7; 227.0; 01-JAN-2005 00:18:28; Dark ; 55.0; 12; Alp1Cru ; 0.77; 30000;occ; 110; 0;14843
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3; 424.6; 25-JAN-2005 22:55:34; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;15200
4; 523.7; 25-JAN-2005 22:57:13; Dark ; 47.5; 99; Del Cen ; 2.58; 26000;occ; 95; 0;15200
5; 660.8; 25-JAN-2005 22:59:30; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;15200
6; 794.3; 25-JAN-2005 23:01:44; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;15200
7; 902.0; 25-JAN-2005 23:03:32; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;15200
8; 1044.4; 25-JAN-2005 23:05:54; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;15200
9; 1183.5; 25-JAN-2005 23:08:13; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;15200
10; 1271.4; 25-JAN-2005 23:09:41; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;15200
11; 1418.9; 25-JAN-2005 23:12:09; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;15200
12; 1501.8; 25-JAN-2005 23:13:31; Dark ; 37.5; 179; 240mi2Cma ; 3.03; 24000;occ; 75; 0;15200
13; 1631.2; 25-JAN-2005 23:15:41; Dark ; 36.5; 1; 9Alp CMa ; -1.44; 11000;occ; 73; 0;15200
14; 1754.3; 25-JAN-2005 23:17:44; Dark ; 58.5; 48; 30Alp Hya ; 1.98; 4100;occ; 117; 0;15200
15; 1994.1; 25-JAN-2005 23:21:44; Dark ; 55.0; 8; 10Alp CMi ; 0.40; 6500;occ; 110; 0;15200
16; 2189.3; 25-JAN-2005 23:24:59; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;15200
17; 2296.5; 25-JAN-2005 23:26:46; Bright; 40.5; 151; 13Mu Gem ; 2.89; 3000;occ; 81; 0;15200
18; 2409.9; 25-JAN-2005 23:28:40; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;15200
19; 2551.2; 25-JAN-2005 23:31:01; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;15200
20; 2678.6; 25-JAN-2005 23:33:08; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;15200

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