

GOMOS Daily Report 08-DEC-2004

Level 0 and Level 1 products

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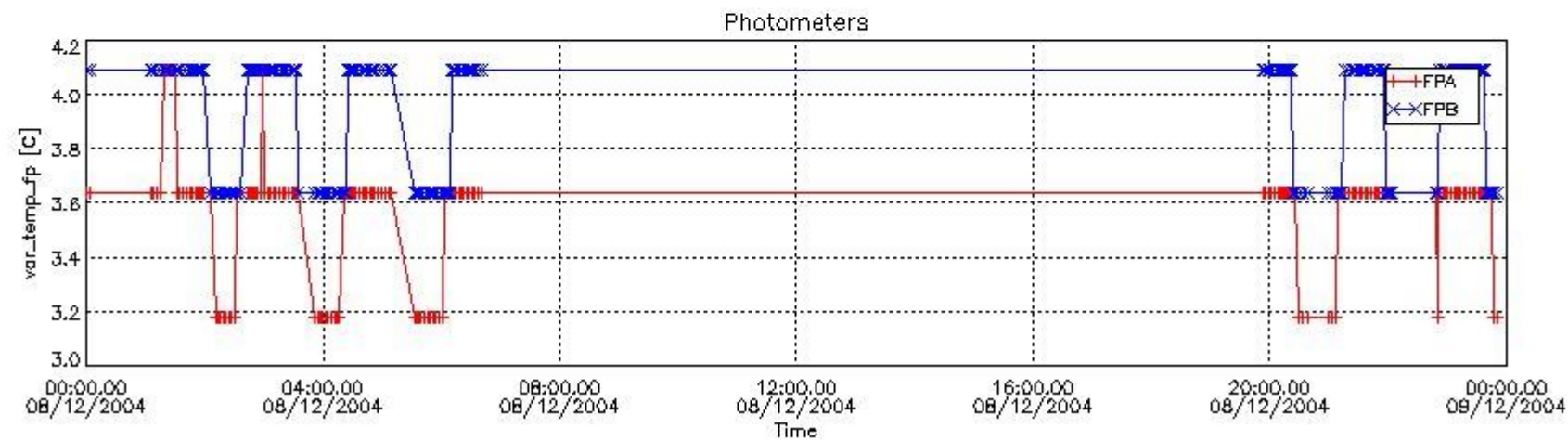
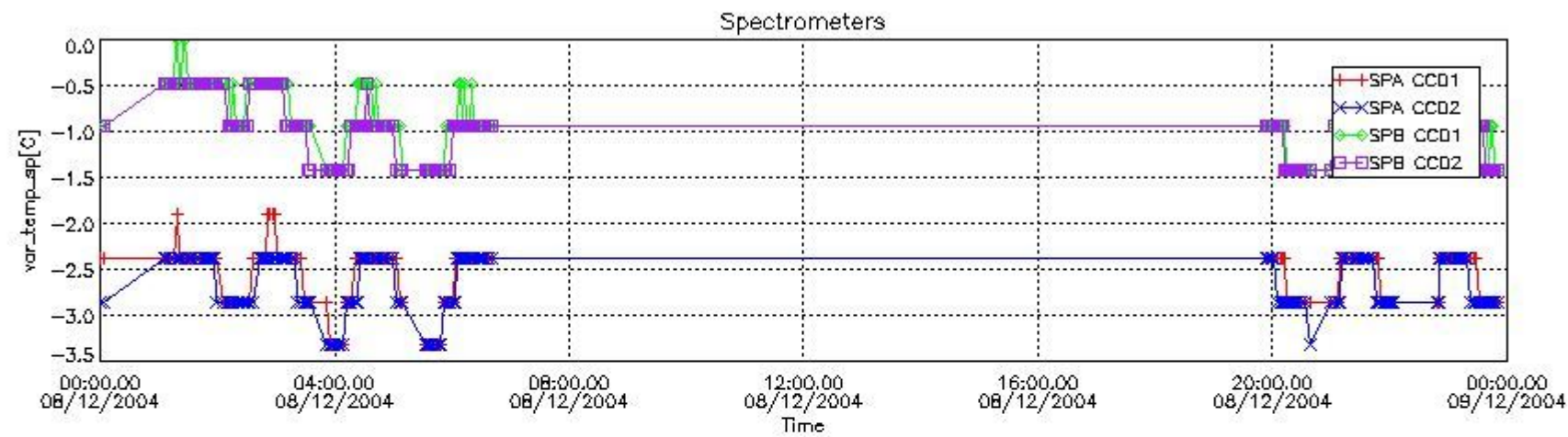
1. General Info

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	10DEC2004 08:23:02

165	GOM_TRA_1PNPDE20041208_230010_000000482032_00431_14513_0006.N1	08-DEC-2004 23:00:10	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	14513	No
166	GOM_TRA_1PNPDE20041208_230406_000000412032_00431_14513_0007.N1	08-DEC-2004 23:04:06	Dark	41.000	29	Bet Car	1.6720	10200.	82	14513	No
167	GOM_TRA_1PNPDE20041208_230622_000000462032_00431_14513_0008.N1	08-DEC-2004 23:06:22	Dark	45.500	41	Eps Car	1.8600	4100.0	91	14513	No
168	GOM_TRA_1PNPDE20041208_230850_000000502032_00431_14513_0009.N1	08-DEC-2004 23:08:50	Dark	49.500	34	Gam2Vel	1.7930	23000.	99	14513	No
169	GOM_TRA_1PNPDE20041208_231128_000000562032_00431_14513_0010.N1	08-DEC-2004 23:11:28	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	14513	No
170	GOM_TRA_1PNPDE20041208_231352_000000632032_00431_14513_0011.N1	08-DEC-2004 23:13:52	Dark	63.000	117	Pi Pup	2.7060	3800.0	126	14513	No
171	GOM_TRA_1PNPDE20041208_231725_000000612032_00431_14513_0012.N1	08-DEC-2004 23:17:25	Dark	61.000	23	21Eps CMa	1.5020	26000.	122	14513	No
172	GOM_TRA_1PNPDE20041208_231921_000000632032_00431_14513_0013.N1	08-DEC-2004 23:19:21	Dark	63.000	179	24Omi2CMa	3.0320	24000.	126	14513	No
173	GOM_TRA_1PNPDE20041208_232251_000000862032_00431_14513_0014.N1	08-DEC-2004 23:22:51	Twilight	86.000	1	9Alp CMa	-1.4400	11000.	172	14513	No
174	GOM_TRA_1PNPDE20041208_232614_000000562032_00431_14513_0015.N1	08-DEC-2004 23:26:14	Bright	56.000	7	19Bet Ori	0.10000	14000.	112	14513	No
175	GOM_TRA_1PNPDE20041208_232844_000000602032_00431_14513_0016.N1	08-DEC-2004 23:28:44	Bright	59.500	30	46Eps Ori	1.6940	30000.	119	14513	No
176	GOM_TRA_1PNPDE20041208_233115_000000582032_00431_14513_0017.N1	08-DEC-2004 23:31:15	Bright	58.000	27	24Gam Ori	1.6360	26000.	116	14513	No
177	GOM_TRA_1PNPDE20041208_233346_000000552032_00431_14513_0018.N1	08-DEC-2004 23:33:46	Bright	55.000	13	87Alp Tau	0.86700	3800.0	110	14513	No
178	GOM_TRA_1PNPDE20041208_233542_000000412032_00431_14513_0019.N1	08-DEC-2004 23:35:42	Bright	40.500	146	25Eta Tau	2.8730	15200.	81	14513	No
179	GOM_TRA_1PNPDE20041208_233757_000000422032_00431_14513_0020.N1	08-DEC-2004 23:37:57	Bright	41.500	150	44Zet Per	2.8900	28000.	83	14513	No
180	GOM_TRA_1PNPDE20041208_233937_000000362032_00431_14513_0021.N1	08-DEC-2004 23:39:37	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	14513	No
181	GOM_TRA_1PNPDE20041208_234140_000000392032_00431_14513_0022.N1	08-DEC-2004 23:41:40	Bright	38.500	73	57Gam1And	2.2600	13100.	77	14513	No
182	GOM_TRA_1PNPDE20041208_234258_000000392032_00431_14513_0023.N1	08-DEC-2004 23:42:58	Bright	39.000	35	33Alp Per	1.7950	6250.0	78	14513	No
183	GOM_TRA_1PNPDE20041208_234445_000000462032_00431_14513_0024.N1	08-DEC-2004 23:44:45	Bright	46.000	42	34Bet Aur	1.9000	10200.	92	14513	No
184	GOM_TRA_1PNPDE20041208_234652_000000382032_00431_14513_0025.N1	08-DEC-2004 23:46:52	Bright	37.500	110	37Del Cas	2.6780	8900.0	75	14513	No
185	GOM_TRA_1PNPDE20041208_235015_000001052032_00431_14513_0026.N1	08-DEC-2004 23:50:15	Bright	105.00	24	66Alp Gem	1.5800	10200.	210	14513	No

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



4. Overview of dark signal processing per product

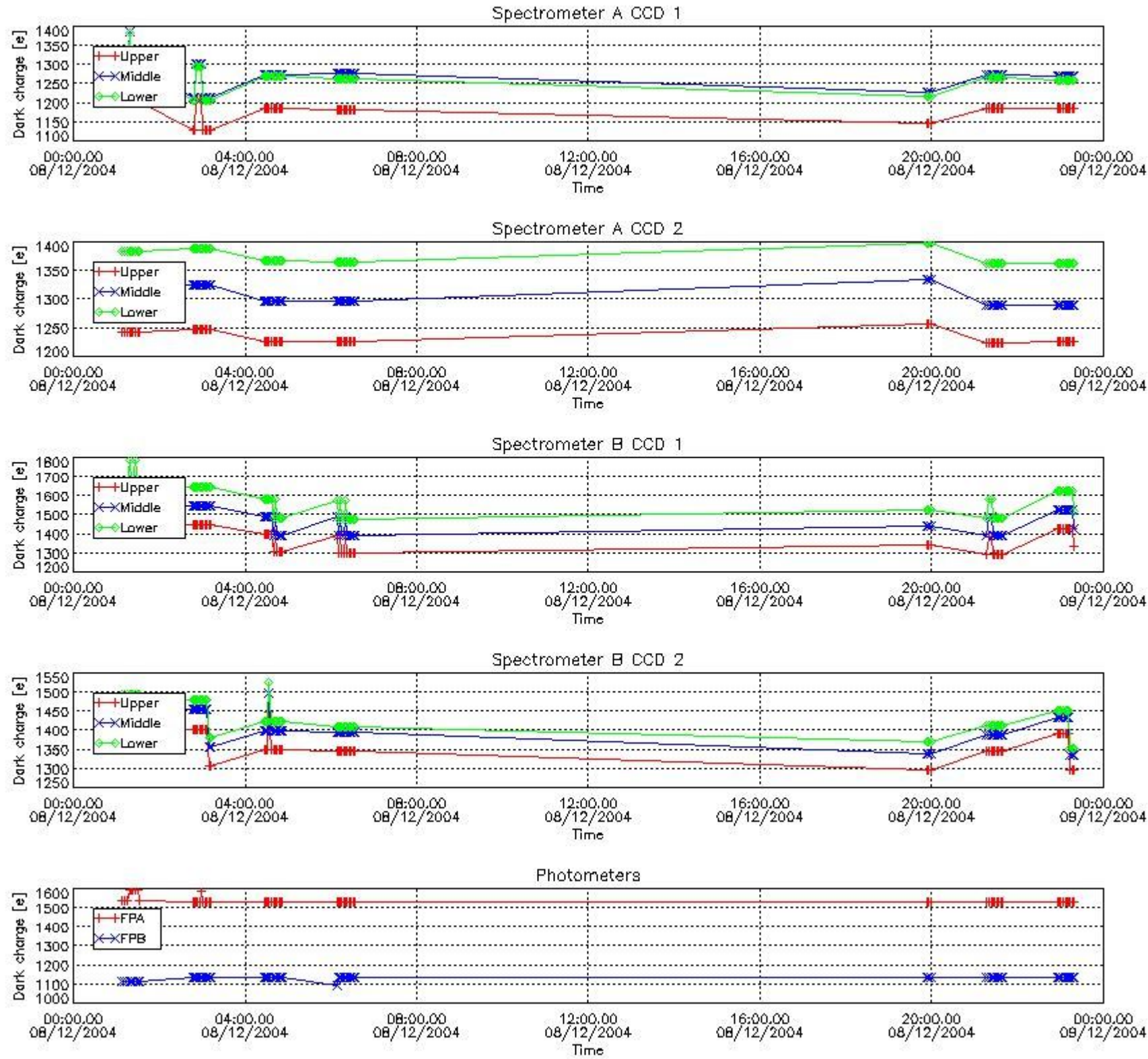
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20041208_195242_000000592032_00429_14511_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_195612_000000652032_00429_14511_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_195807_000000682032_00429_14511_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_200138_000000862032_00429_14511_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_200500_000000592032_00429_14511_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_200734_000000572032_00429_14511_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_201002_000000572032_00429_14511_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_201236_000000572032_00429_14511_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_201430_000000412032_00429_14511_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_201647_000000392032_00429_14511_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_201824_000000372032_00429_14511_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_202027_000000382032_00429_14511_0011.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_202148_000000392032_00429_14511_0012.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_202334_000000492032_00429_14511_0013.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_202539_000000402032_00429_14511_0014.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_202908_000000972032_00429_14511_0015.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_203255_000000392032_00429_14511_0016.N1	DC map used (0)
GOM_TRA_1PNPDE20041208_203739_000000362032_00429_14511_0017.N1	DC map used (0)

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



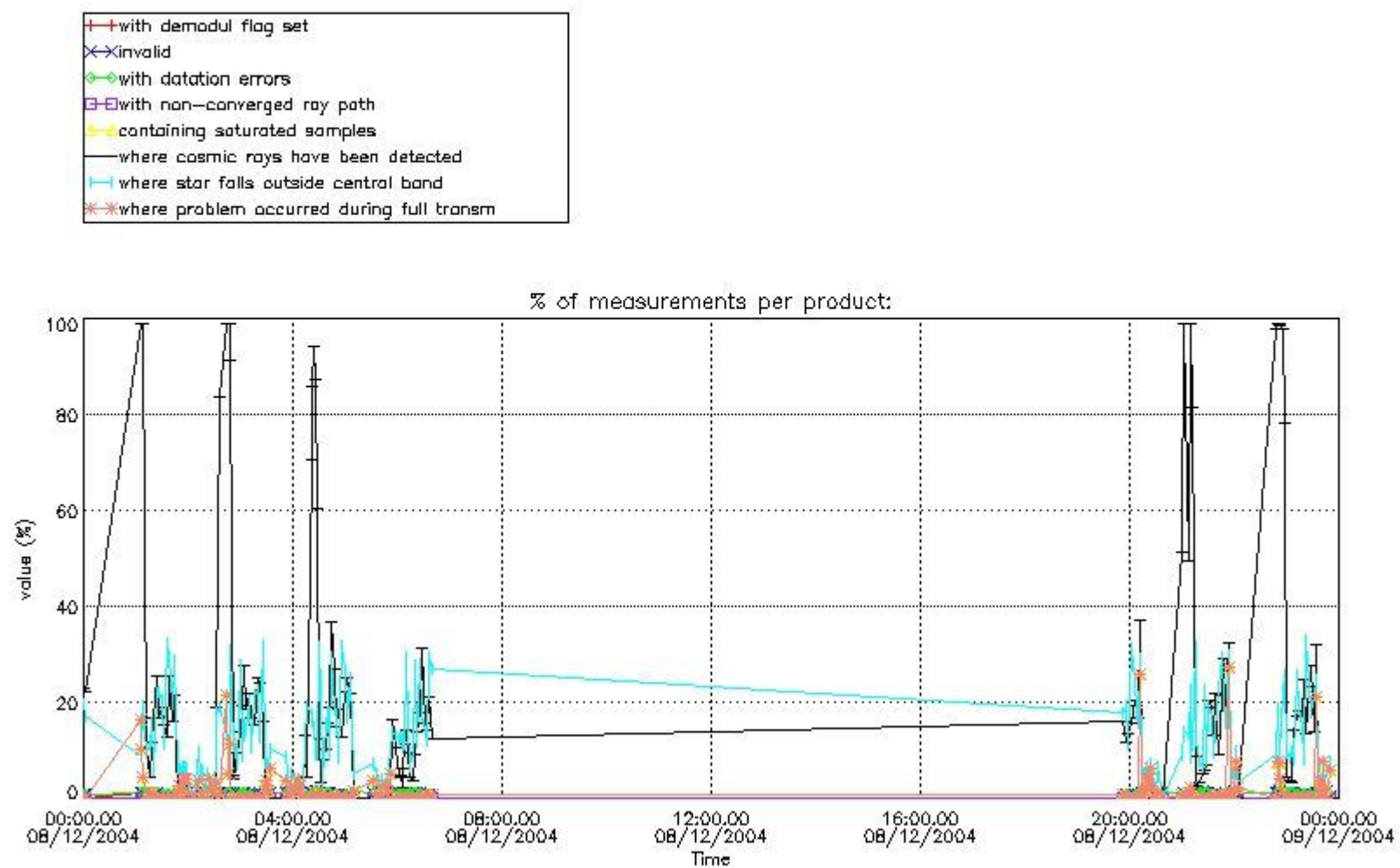
5. Demodulation flag and quality information monitoring

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.

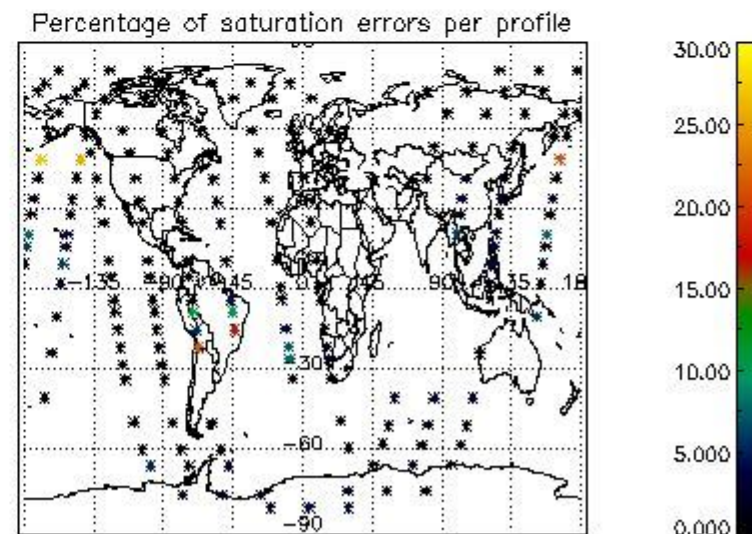
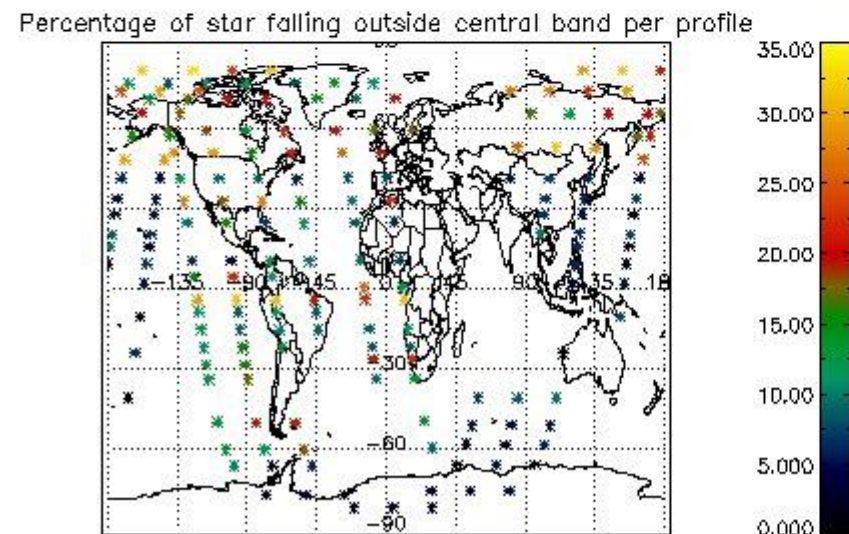
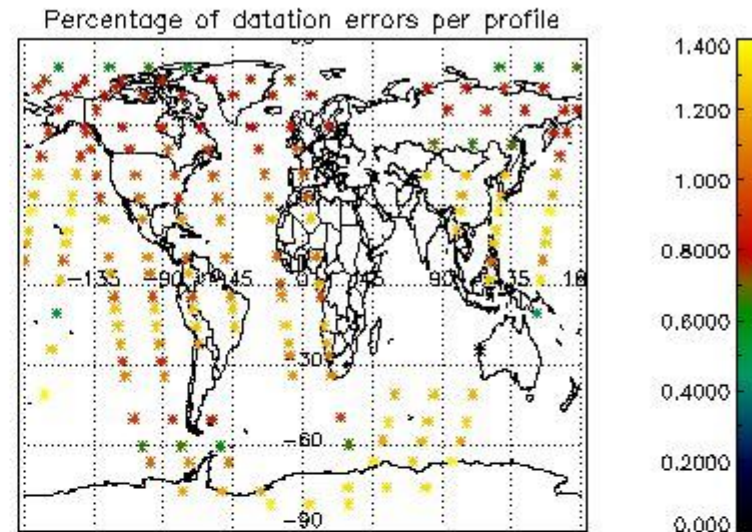
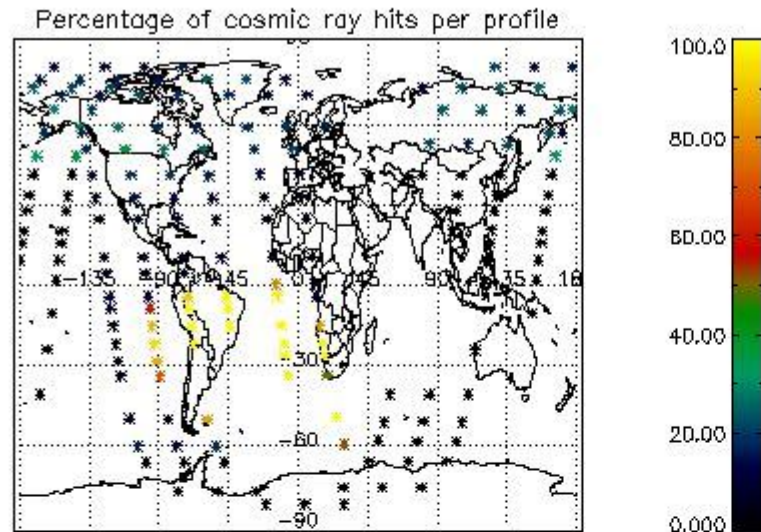
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.3784 %
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)



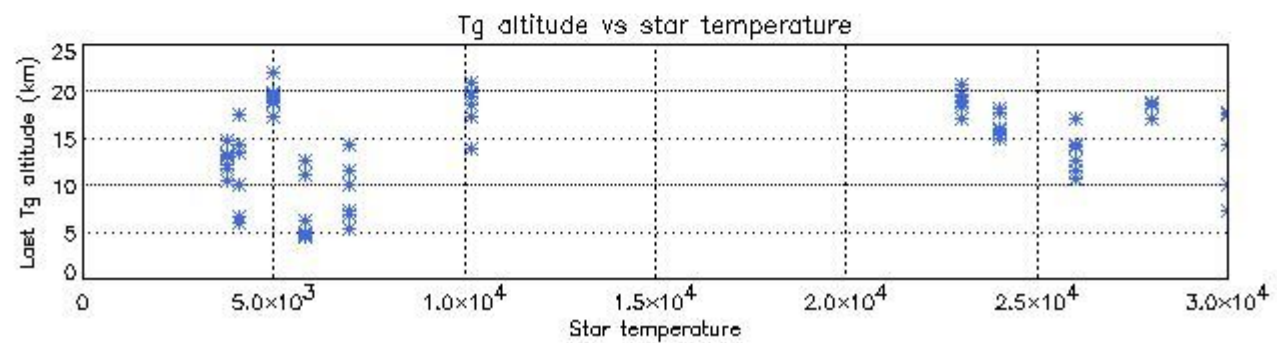
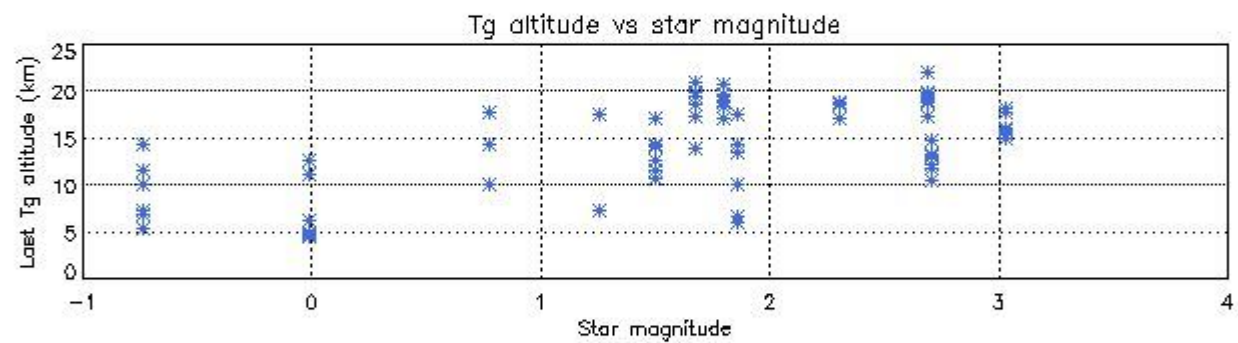
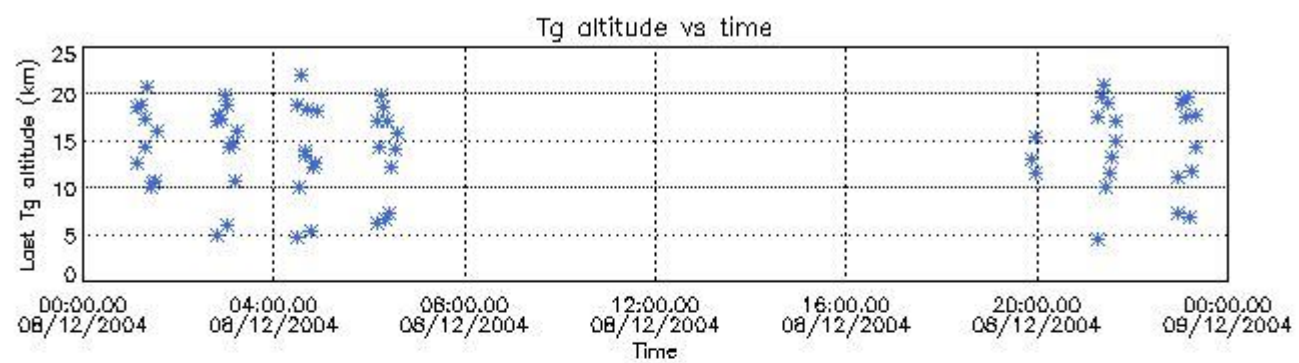
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.241	18.204	13.797
St. deviation:	4.6718	5.9322	4.2898
Maximum:	21.994	27.769	19.147
Minimum:	4.5323	5.1726	4.8905
Number of data:	66.000	85.000	34.000

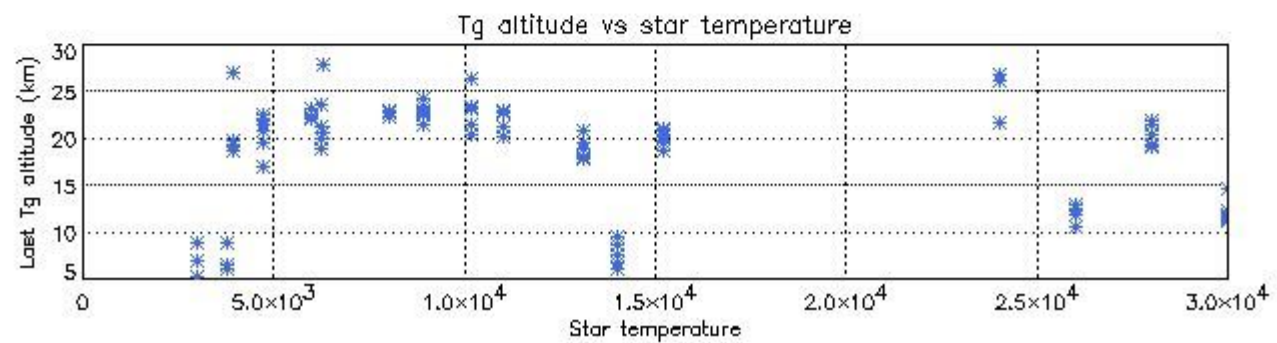
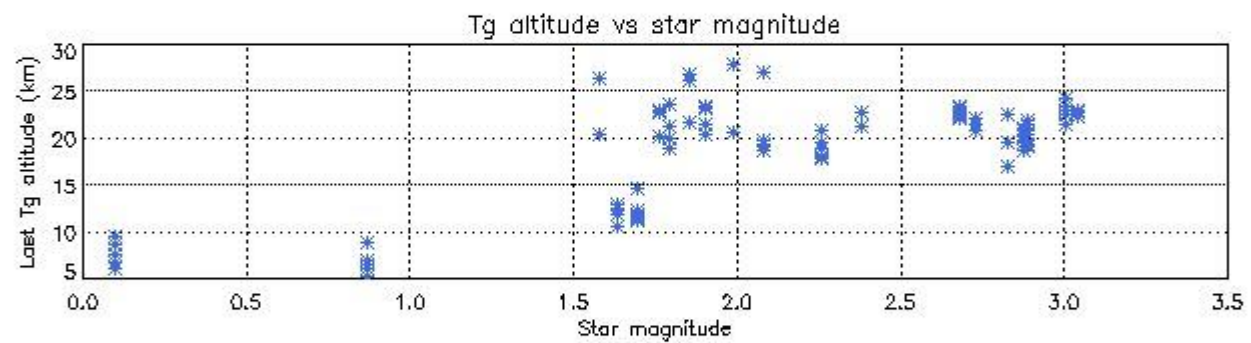
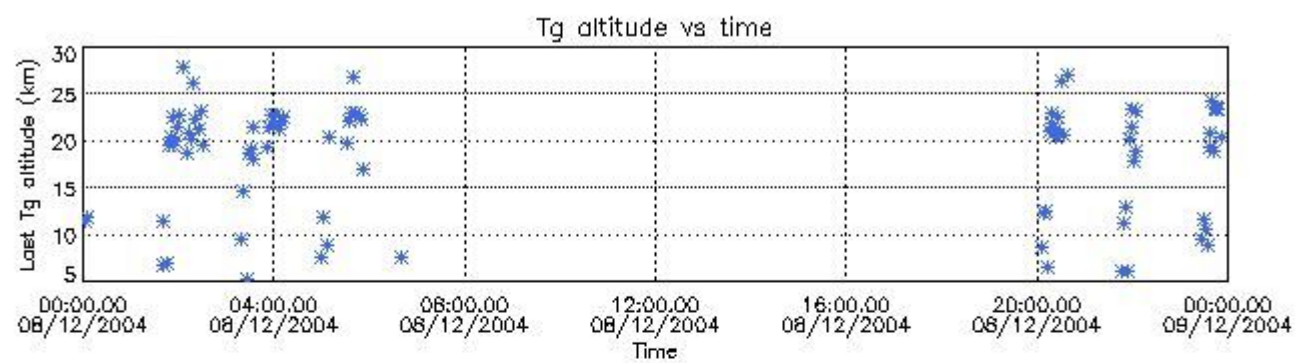
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



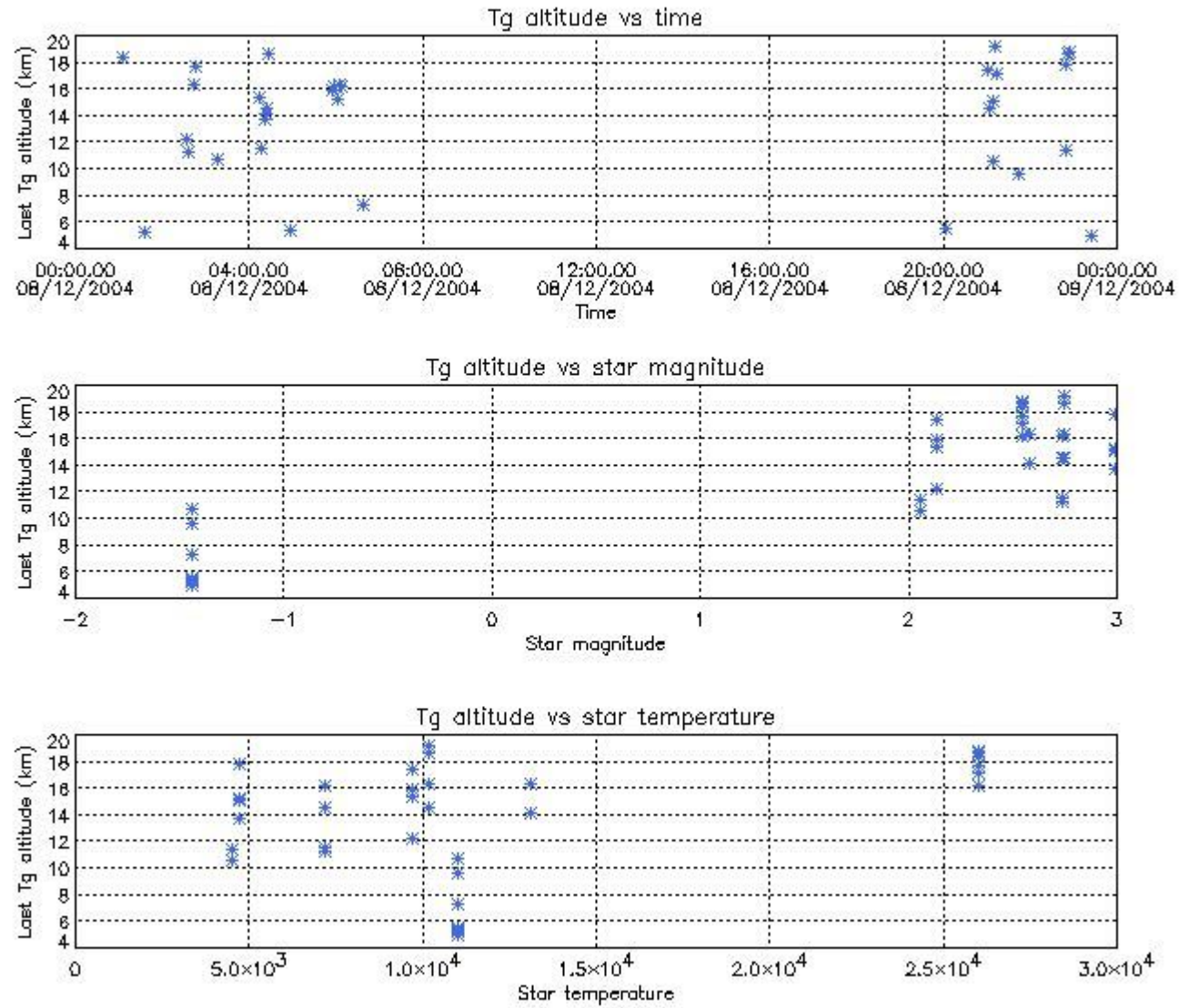
6.3 Plot for BRIGHT limb products

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

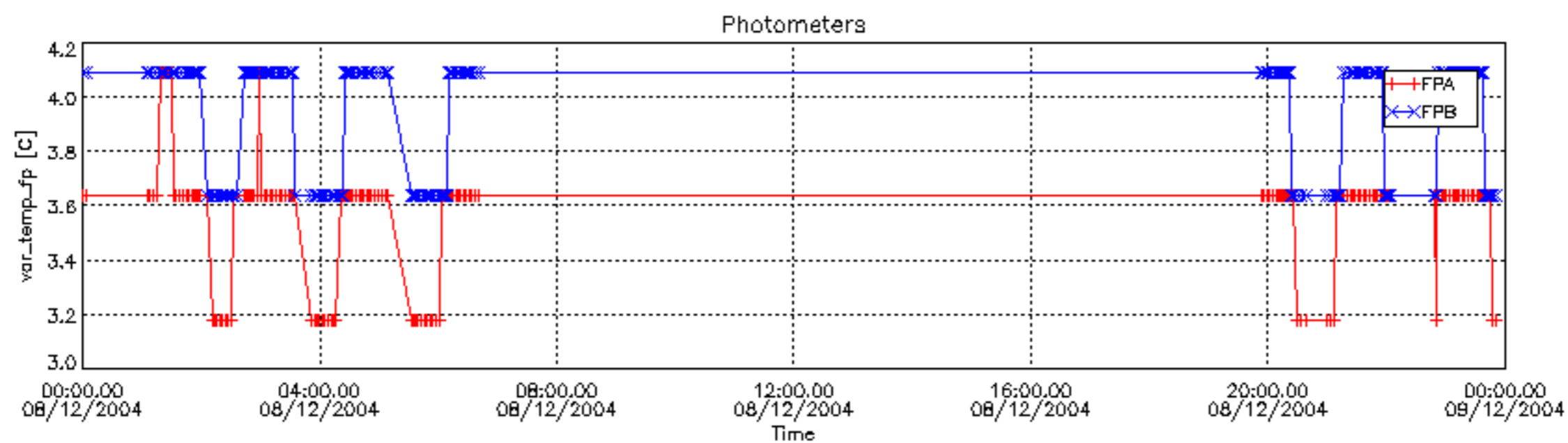
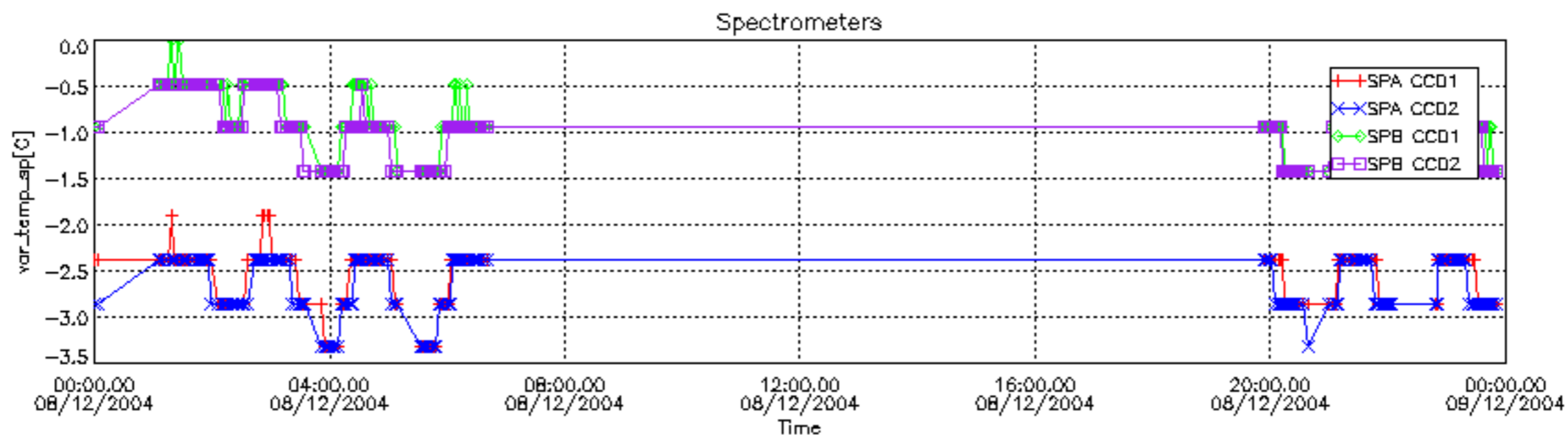
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

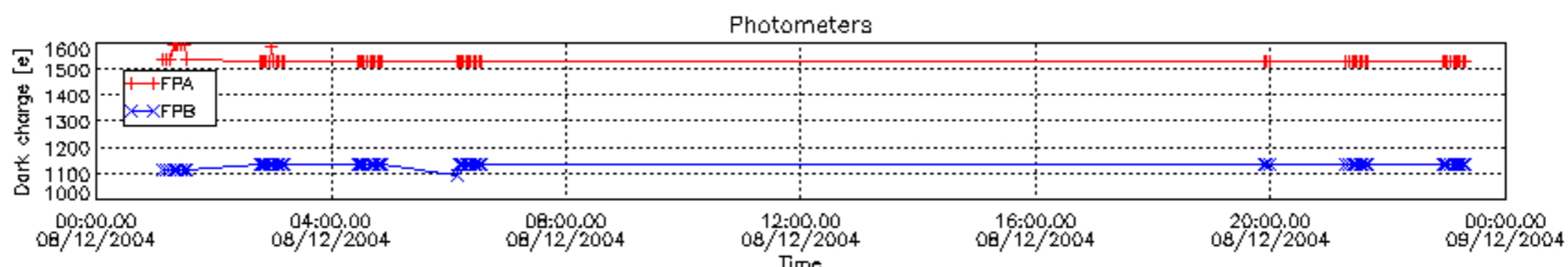
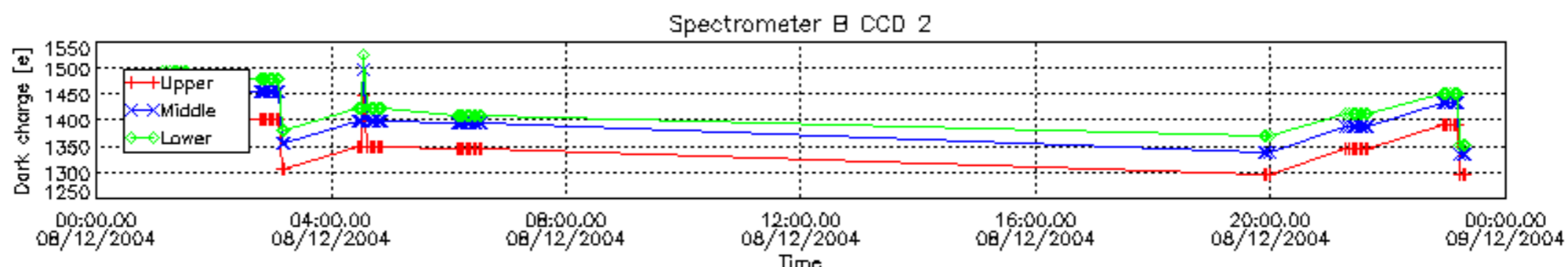
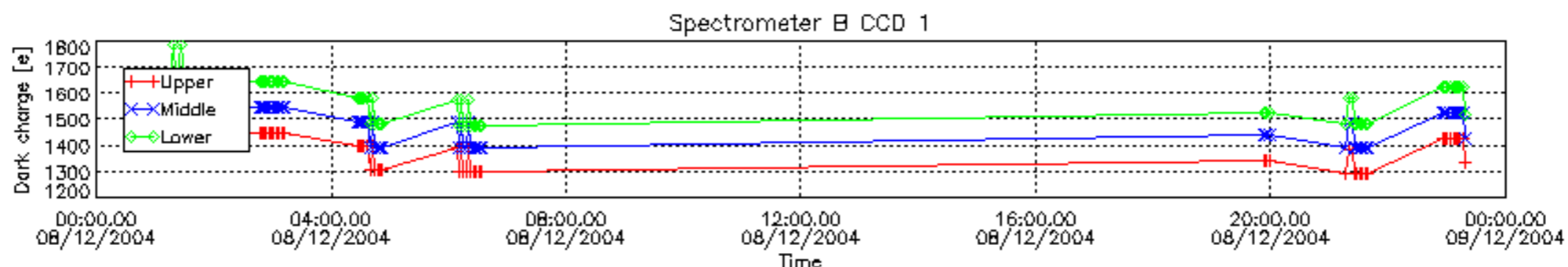
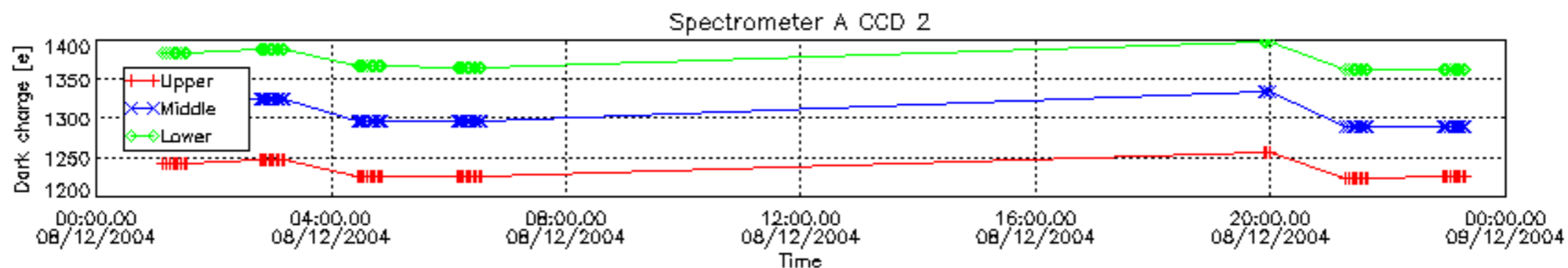
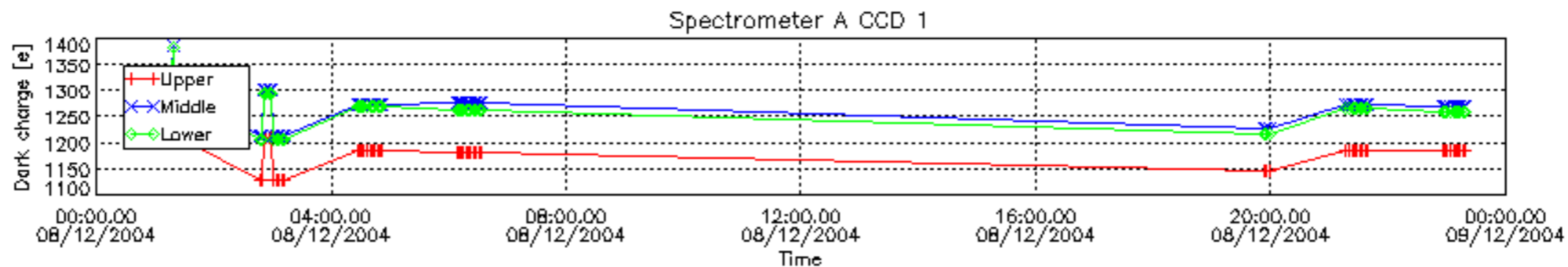
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.3	1447.8	1461.4	1447.7
St. deviation:	4.6522	6.1883	6.8440	8.3008
Maximum:	1507.0	1512.0	1514.0	1513.0
Minimum:	1425.0	1402.0	1448.0	1432.0
Number of data:	88750.	88750.	1.0490E+05	1.0490E+05

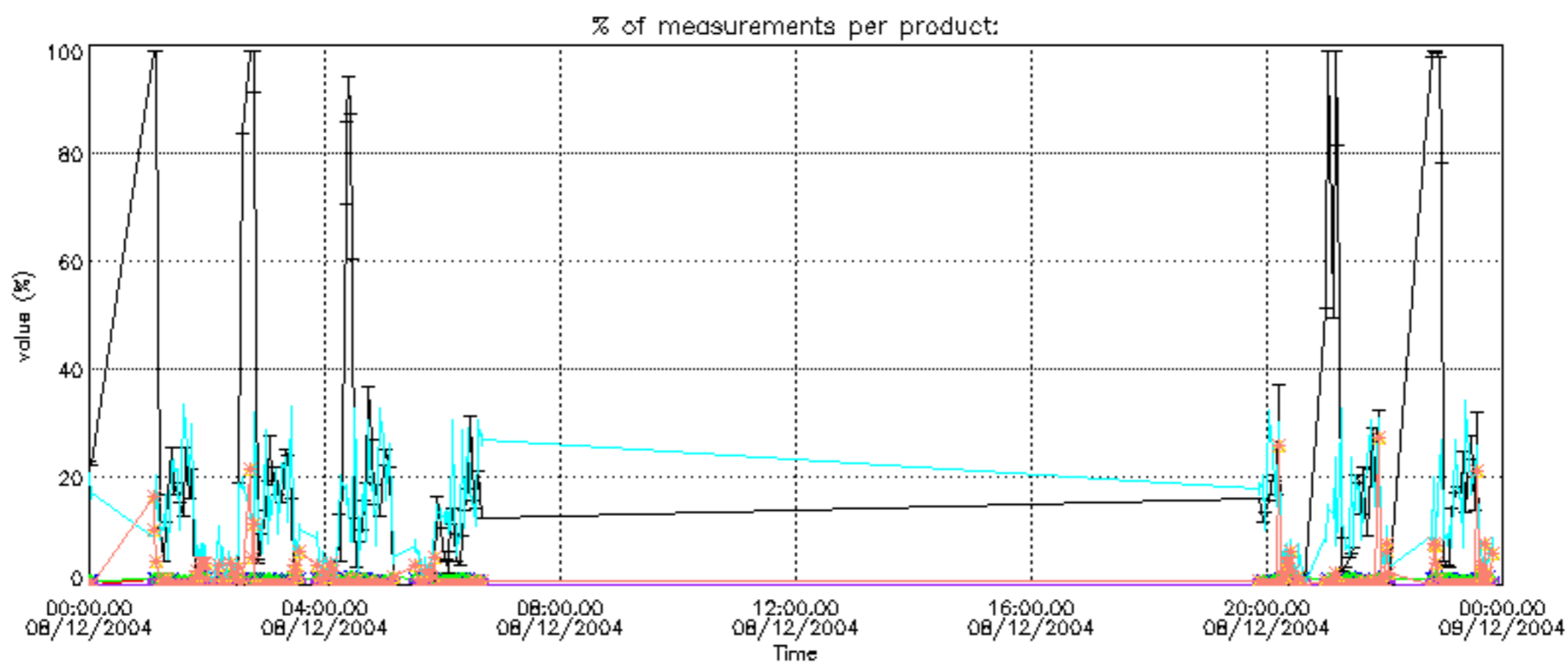
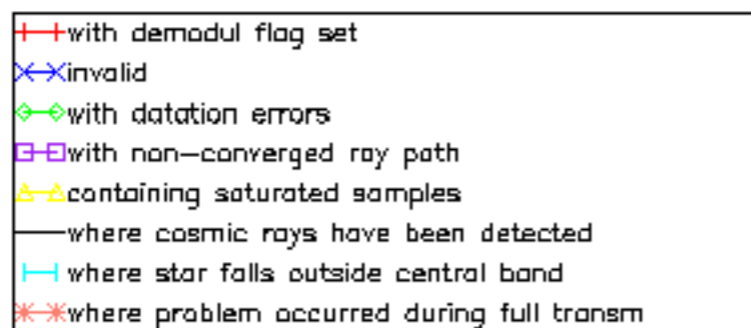
8. Auxiliary Data Files used for the production reported in section 2.2

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.

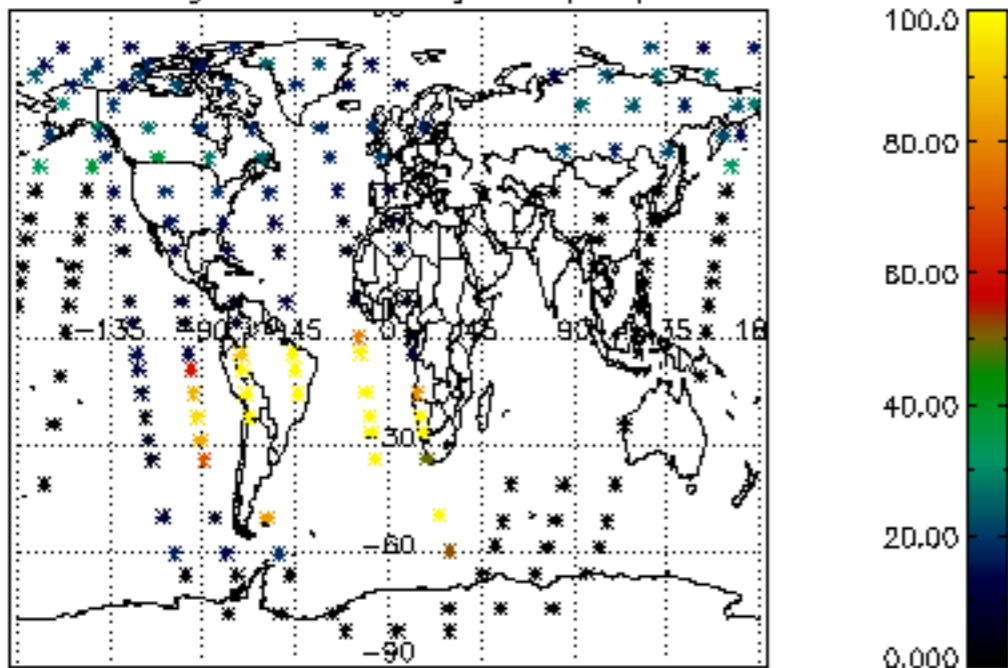
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	08-DEC-2004 00:00:26
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041129_135000_20041127_000000_20100101_000000	1	08-DEC-2004 00:00:26
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041207_081221_20041205_000000_20100101_000000	26	08-DEC-2004 02:11:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	08-DEC-2004 00:00:26
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-DEC-2004 00:00:26
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	08-DEC-2004 00:00:26
ECMWF_FILE	AUX_ECF_AXNECM20041207_060606_20041207_210000_20041208_090000	1	08-DEC-2004 00:00:26
ECMWF_FILE	AUX_ECF_AXNECM20041207_193045_20041208_030000_20041208_150000	57	08-DEC-2004 03:51:39
ECMWF_FILE	AUX_ECA_AXNECM20041208_070417_20041207_210000_20041208_090000	87	08-DEC-2004 05:32:14
ECMWF_FILE	AUX_ECF_AXNECM20041208_055503_20041208_150000_20041209_030000	114	08-DEC-2004 19:52:42
ECMWF_FILE	AUX_ECF_AXNECM20041208_060427_20041208_210000_20041209_090000	159	08-DEC-2004 22:47:42
OPTIONAL_ECMWF_FILE	NOT USED	1	08-DEC-2004 00:00:26
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041207_232035_20041207_182658_20041217_213345	1	08-DEC-2004 00:00:26
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20041208_225046_20041208_193556_20041218_210207	132	08-DEC-2004 20:59:39



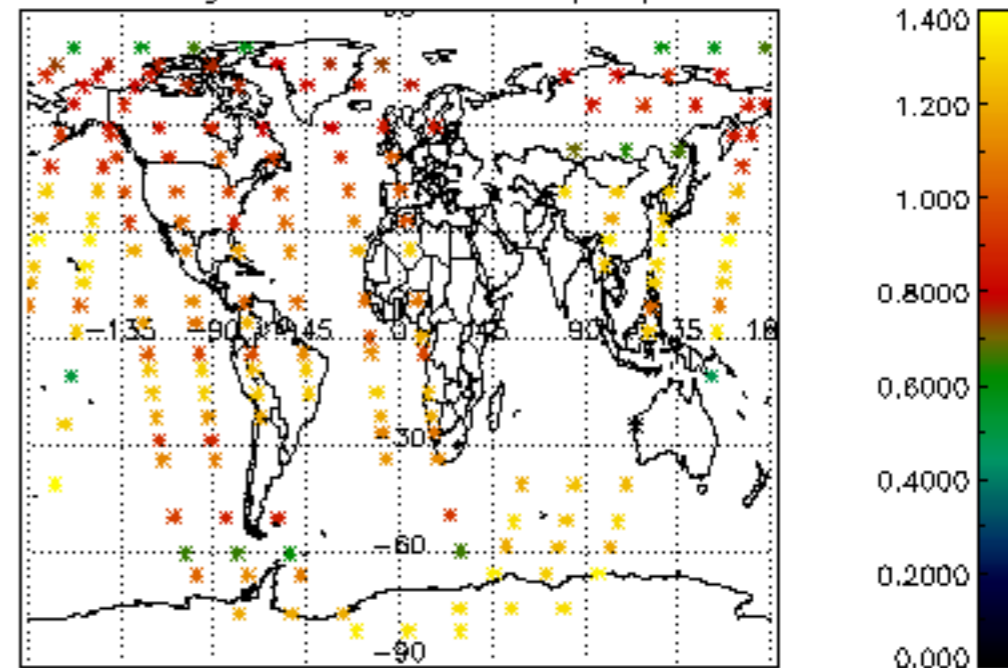




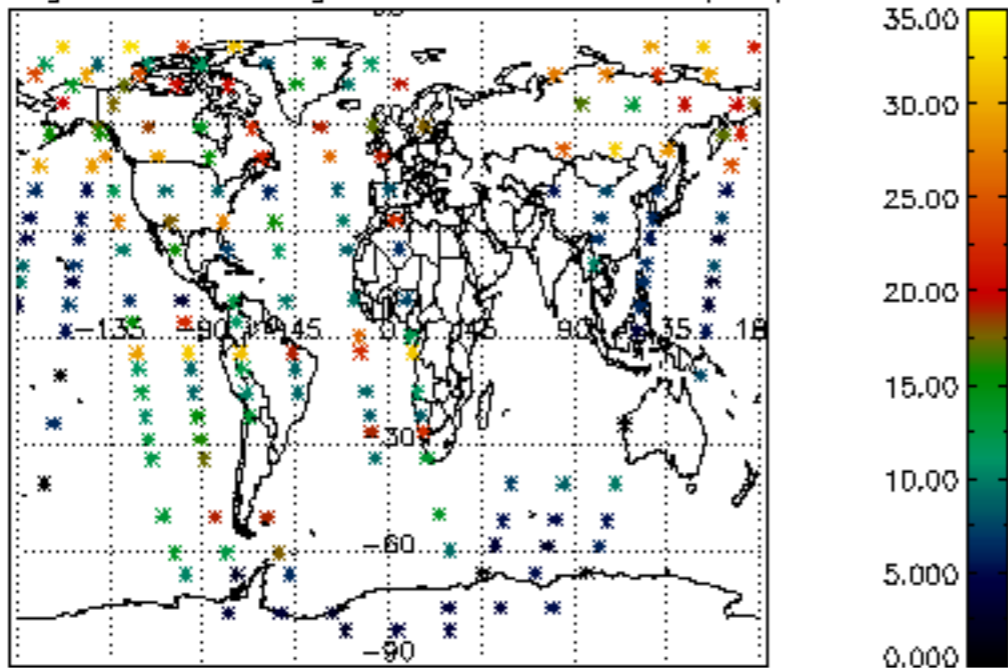
Percentage of cosmic ray hits per profile



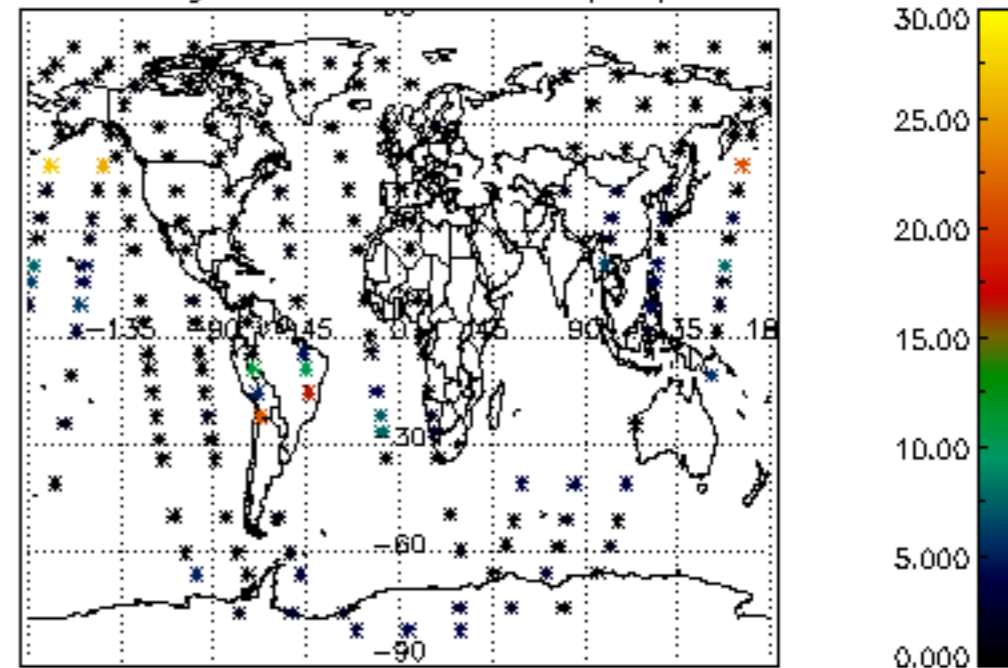
Percentage of datation errors per profile



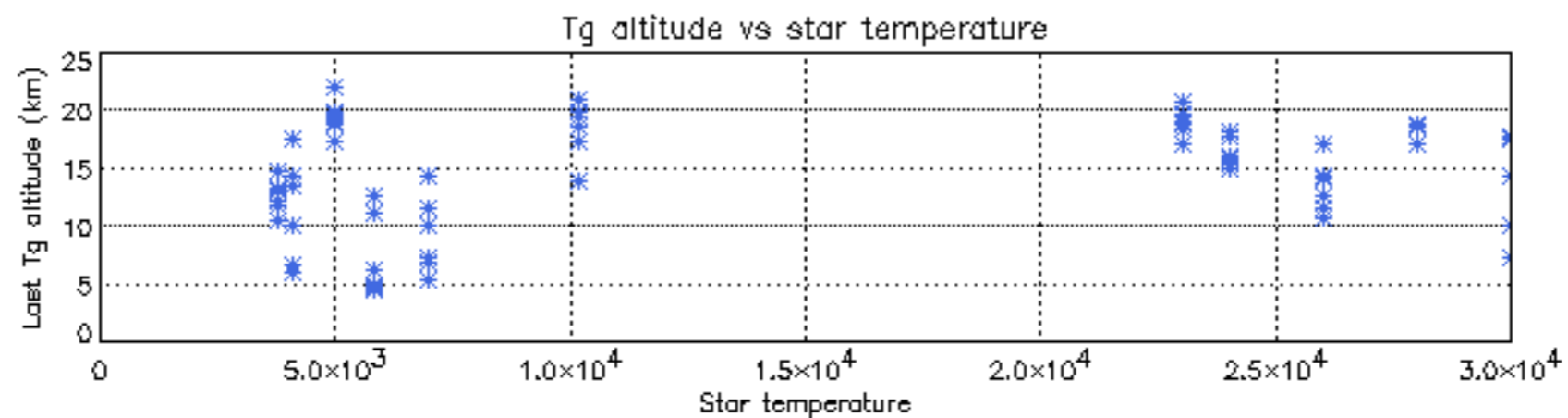
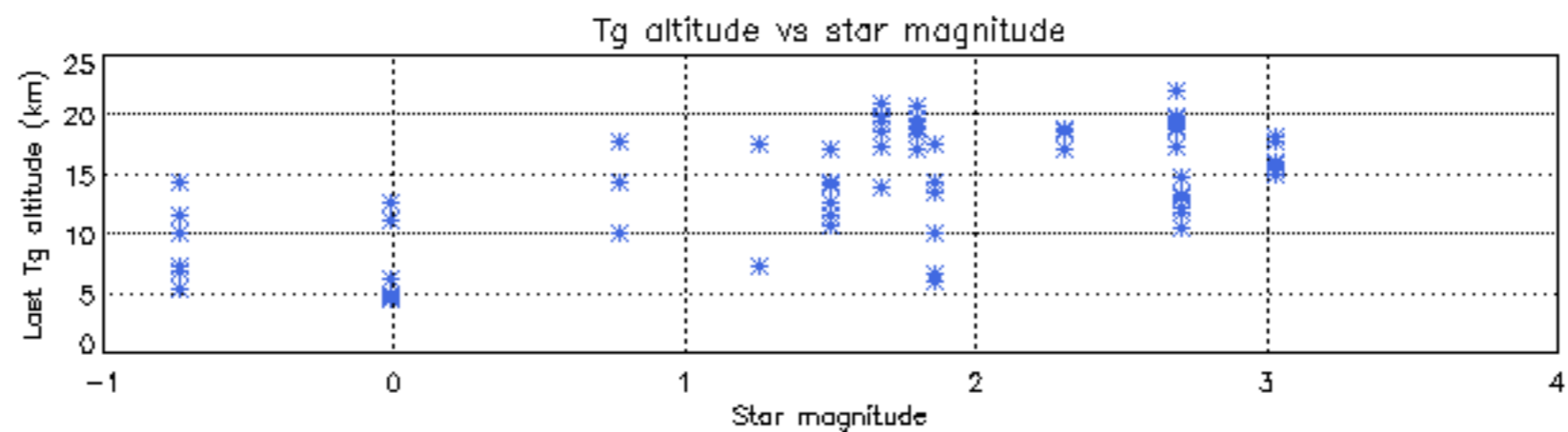
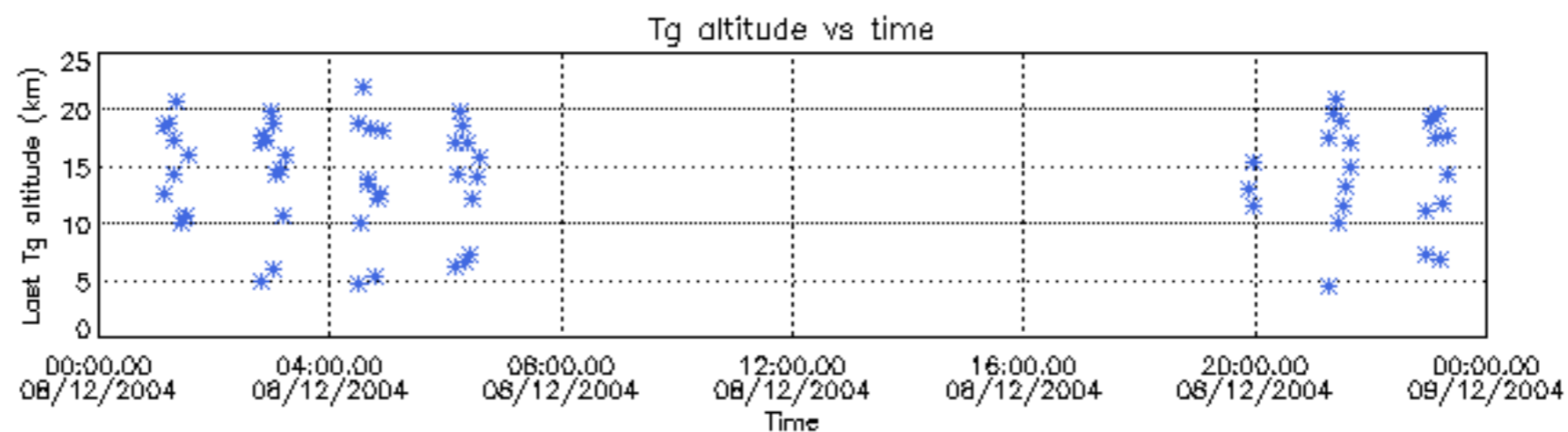
Percentage of star falling outside central band per profile



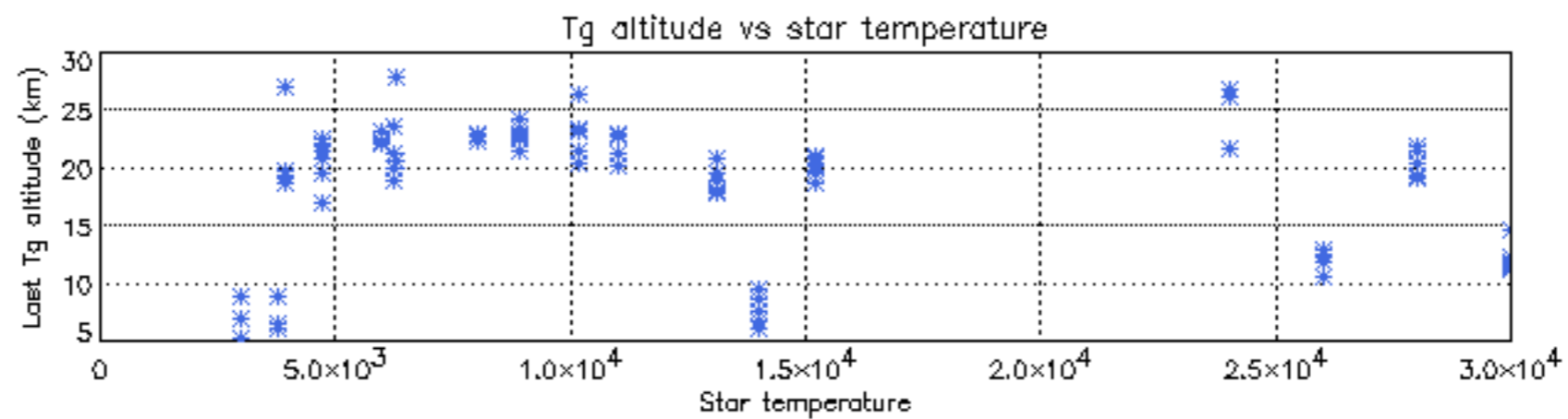
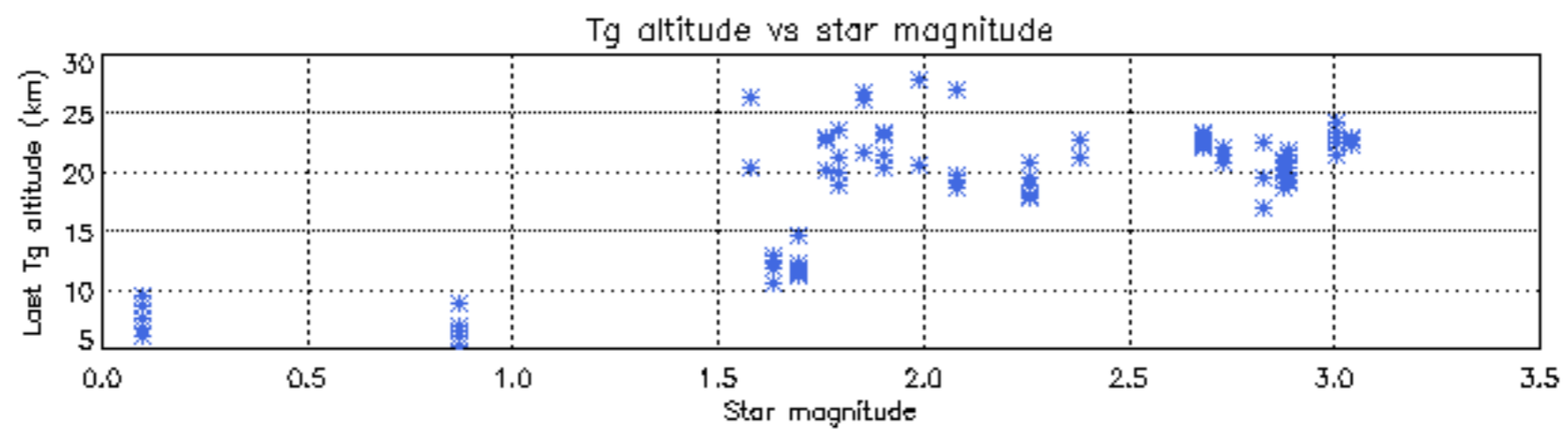
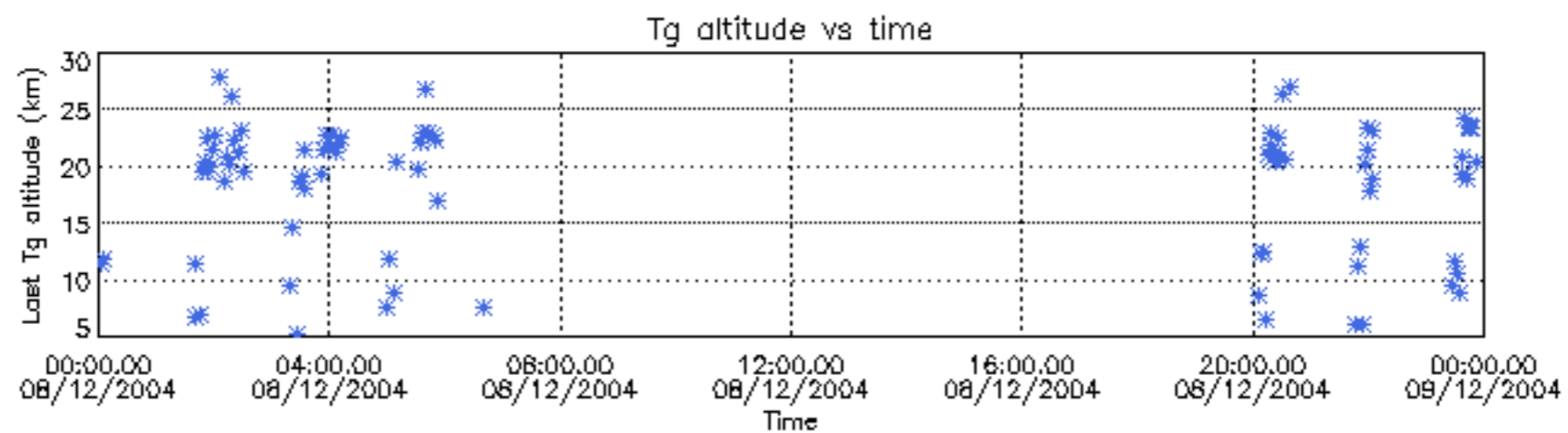
Percentage of saturation errors per profile



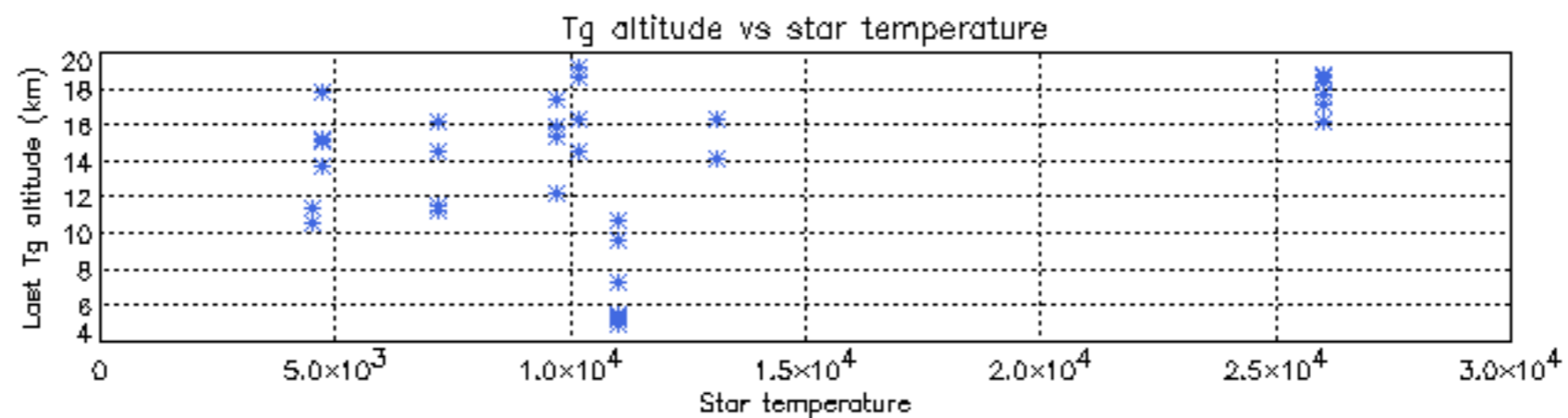
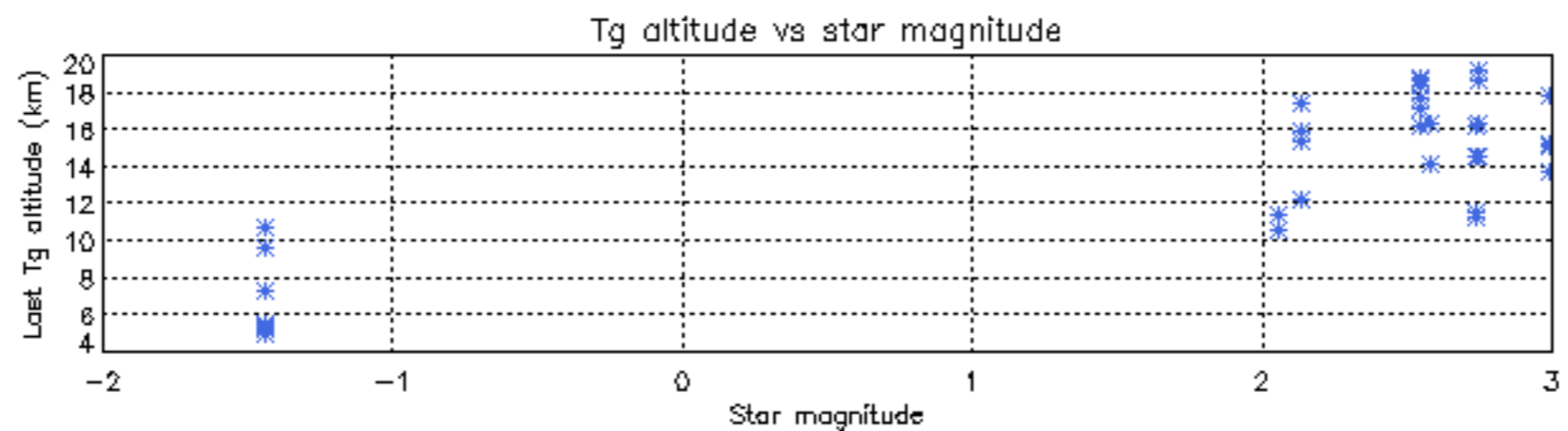
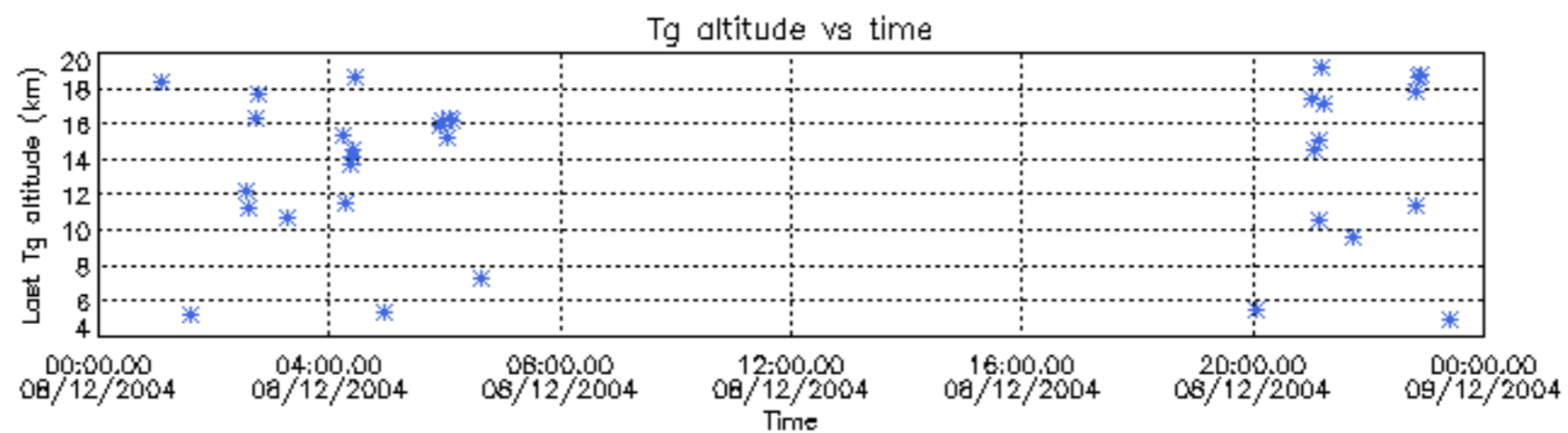
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041201_012037_000039862032_00317_14399_1281.N1
 1; -532.4; 01-DEC-2004 01:20:37; Dark ; 51.5; 106; 9Bet Crv ; 2.65; 5600;occ; 103; 0;14399
 2; -173.6; 01-DEC-2004 01:26:36; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;14399
 3; -74.8; 01-DEC-2004 01:28:15; Dark ; 49.5; 10; Bet Cen ; 0.61; 28000;occ; 99; 0;14399
 4; 41.1; 01-DEC-2004 01:30:11; Dark ; 45.0; 12; Alp1Cru ; 0.77; 30000;occ; 90; 0;14400
 5; 205.3; 01-DEC-2004 01:32:55; Dark ; 40.5; 124; The Car ; 2.76; 30000;occ; 81; 0;14400
 6; 357.9; 01-DEC-2004 01:35:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14400
 7; 483.9; 01-DEC-2004 01:37:34; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;14400
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33; 840.9; 31-DEC-2004 12:44:30; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;14836
34; 973.7; 31-DEC-2004 12:46:43; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;14836
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35; 4351.6; 31-DEC-2004 23:46:36; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;14842
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38; 5028.3; 31-DEC-2004 23:57:53; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;14842
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40; 5352.6; 01-JAN-2005 00:03:17; Dark ; 19.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 38; 0;14842
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4;-4867.3; 31-DEC-2004 19:32:22; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;14840

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10;-3942.8; 31-DEC-2004 19:47:46; Dark ; 72.5; 8; 10Alp CMi ; 0.40; 6500;occ; 145; 0;14840

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18;-2617.1; 31-DEC-2004 20:09:52; Bright; 40.0; 49; 1Alp UMi ; 1.99; 6300;occ; 80; 0;14840

19;-2442.1; 31-DEC-2004 20:12:47; Bright; 51.0; 36; 50Alp UMa ; 1.80; 6300;occ; 102; 0;14840

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22;-1929.2; 31-DEC-2004 20:21:20; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;14840

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28; -684.4; 31-DEC-2004 20:42:05; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;14840

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31; -194.1; 31-DEC-2004 20:50:15; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;14840

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33; -4.7; 31-DEC-2004 20:53:24; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;14840

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35; 227.8; 31-DEC-2004 20:57:17; Dark ; 47.0; 12; Alp1Cru ; 0.77; 30000;occ; 94; 0;14841

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40; 844.5; 31-DEC-2004 21:07:33; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;14841

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