

GOMOS Daily Report 01-SEP-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	03SEP2005 05:04:40

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (01SEP2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (02SEP2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	37
Nb of prods with errors	0

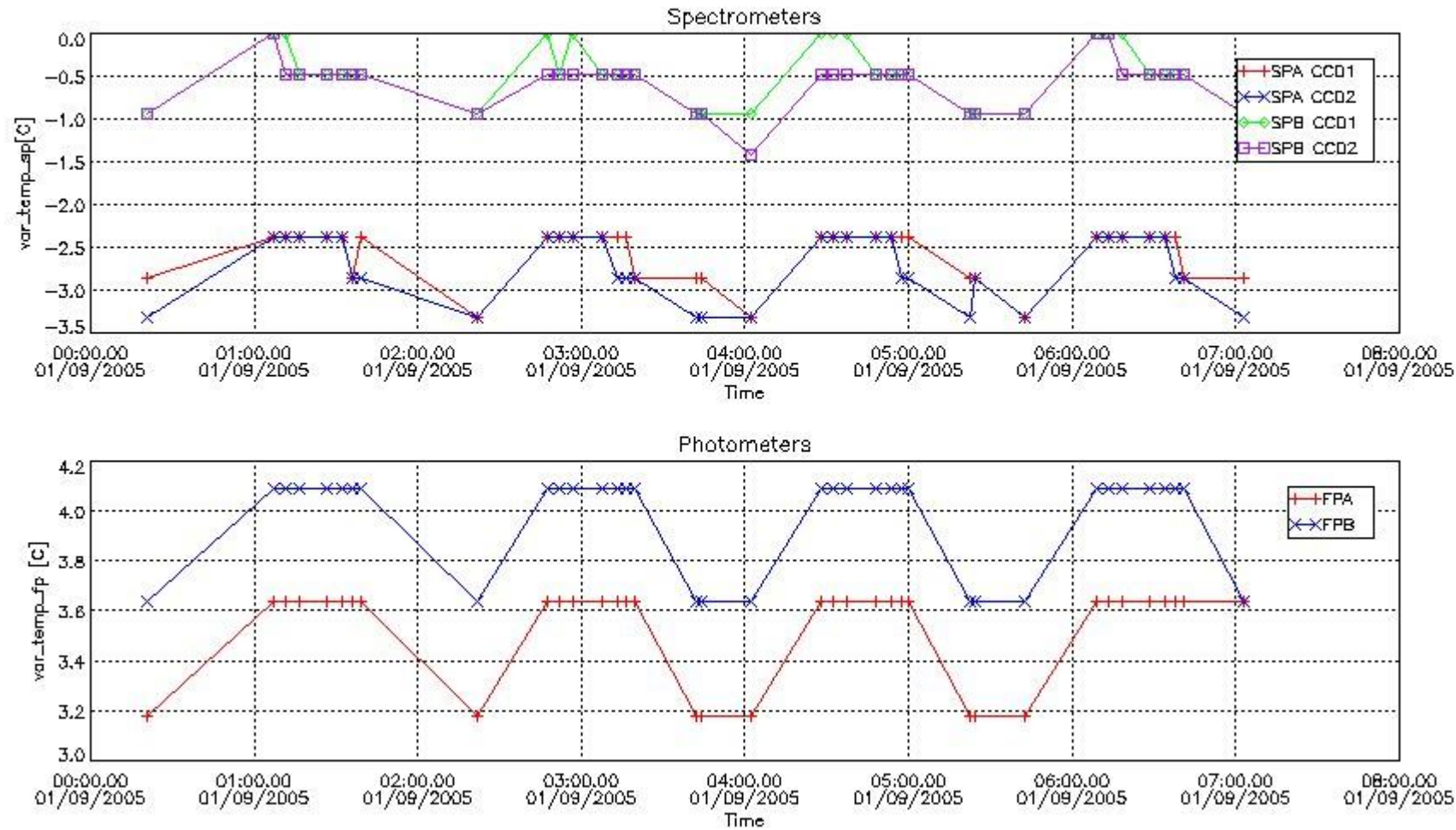
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20050901_002044_000000342040_00231_18321_0007.N1	01-SEP-2005 00:20:44	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	18321	No
2	GOM_TRA_1PNPDE20050901_010657_000000402040_00231_18321_0000.N1	01-SEP-2005 01:06:57	Dark	40.000	132	15Rho Pup	2.8030	6900.0	80	18321	No
3	GOM_TRA_1PNPDE20050901_011115_000000392040_00231_18321_0001.N1	01-SEP-2005 01:11:15	Dark	39.000	70	Zet Pup	2.2460	39000.	78	18321	No
4	GOM_TRA_1PNPDE20050901_011626_000000422040_00231_18321_0002.N1	01-SEP-2005 01:16:26	Dark	42.000	41	Eps Car	1.8600	4100.0	84	18321	No
5	GOM_TRA_1PNPDE20050901_012650_000000372040_00232_18322_0003.N1	01-SEP-2005 01:26:50	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18322	No
6	GOM_TRA_1PNPDE20050901_013225_000000392040_00232_18322_0004.N1	01-SEP-2005 01:32:25	Twilight	39.000	148	Alp Tuc	2.8780	4100.0	78	18322	No
7	GOM_TRA_1PNPDE20050901_013604_000000372040_00232_18322_0005.N1	01-SEP-2005 01:36:04	Twilight	37.000	31	Alp Gru	1.7340	15200.	74	18322	No
8	GOM_TRA_1PNPDE20050901_013854_000000392040_00232_18322_0006.N1	01-SEP-2005 01:38:54	Bright	38.500	172	Gam Gru	3.0030	13100.	77	18322	No
9	GOM_TRA_1PNPDE20050901_022138_000000362040_00232_18322_0000.N1	01-SEP-2005 02:21:38	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	18322	No
10	GOM_TRA_1PNPDE20050901_024733_000000352040_00232_18322_0001.N1	01-SEP-2005 02:47:33	Dark	34.500	132	15Rho Pup	2.8030	6900.0	69	18322	No
11	GOM_TRA_1PNPDE20050901_025151_000000392040_00232_18322_0002.N1	01-SEP-2005 02:51:51	Dark	39.000	70	Zet Pup	2.2460	39000.	78	18322	No
12	GOM_TRA_1PNPDE20050901_025702_000000512040_00232_18322_0003.N1	01-SEP-2005 02:57:02	Dark	51.000	41	Eps Car	1.8600	4100.0	102	18322	No
13	GOM_TRA_1PNPDE20050901_030727_000000372040_00233_18323_0004.N1	01-SEP-2005 03:07:27	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18323	No
14	GOM_TRA_1PNPDE20050901_031301_000000402040_00233_18323_0005.N1	01-SEP-2005 03:13:01	Twilight	40.000	148	Alp Tuc	2.8780	4100.0	80	18323	No
15	GOM_TRA_1PNPDE20050901_031640_000000392040_00233_18323_0006.N1	01-SEP-2005 03:16:40	Twilight	39.000	31	Alp Gru	1.7340	15200.	78	18323	No
16	GOM_TRA_1PNPDE20050901_031930_000000372040_00233_18323_0007.N1	01-SEP-2005 03:19:30	Bright	36.500	172	Gam Gru	3.0030	13100.	73	18323	No
17	GOM_TRA_1PNPDE20050901_034156_000000372040_00233_18323_0008.N1	01-SEP-2005 03:41:56	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	18323	No
18	GOM_TRA_1PNPDE20050901_034341_000000352040_00233_18323_0009.N1	01-SEP-2005 03:43:41	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	18323	No
19	GOM_TRA_1PNPDE20050901_040214_000000352040_00233_18323_0000.N1	01-SEP-2005 04:02:14	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	18323	No
20	GOM_TRA_1PNPDE20050901_042809_000000352040_00233_18323_0001.N1	01-SEP-2005 04:28:09	Dark	34.500	132	15Rho Pup	2.8030	6900.0	69	18323	No
21	GOM_TRA_1PNPDE20050901_043227_000000392040_00233_18323_0002.N1	01-SEP-2005 04:32:27	Dark	39.000	70	Zet Pup	2.2460	39000.	78	18323	No
22	GOM_TRA_1PNPDE20050901_043738_000000452040_00233_18323_0003.N1	01-SEP-2005 04:37:38	Dark	45.000	41	Eps Car	1.8600	4100.0	90	18323	No
23	GOM_TRA_1PNPDE20050901_044803_000000382040_00234_18324_0004.N1	01-SEP-2005 04:48:03	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	18324	No
24	GOM_TRA_1PNPDE20050901_045337_000000382040_00234_18324_0005.N1	01-SEP-2005 04:53:37	Twilight	38.000	148	Alp Tuc	2.8780	4100.0	76	18324	No
25	GOM_TRA_1PNPDE20050901_045717_000000392040_00234_18324_0006.N1	01-SEP-2005 04:57:17	Twilight	38.500	31	Alp Gru	1.7340	15200.	77	18324	No
26	GOM_TRA_1PNPDE20050901_050007_000000372040_00234_18324_0007.N1	01-SEP-2005 05:00:07	Bright	36.500	172	Gam Gru	3.0030	13100.	73	18324	No
27	GOM_TRA_1PNPDE20050901_052232_000000352040_00234_18324_0008.N1	01-SEP-2005 05:22:32	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	18324	No
28	GOM_TRA_1PNPDE20050901_052417_000000362040_00234_18324_0009.N1	01-SEP-2005 05:24:17	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	18324	No
29	GOM_TRA_1PNPDE20050901_054251_000000372040_00234_18324_0000.N1	01-SEP-2005 05:42:51	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	18324	No
30	GOM_TRA_1PNPDE20050901_060845_000000362040_00234_18324_0001.N1	01-SEP-2005 06:08:45	Dark	35.500	132	15Rho Pup	2.8030	6900.0	71	18324	No
31	GOM_TRA_1PNPDE20050901_061303_000000392040_00234_18324_0002.N1	01-SEP-2005 06:13:03	Dark	39.000	70	Zet Pup	2.2460	39000.	78	18324	No
32	GOM_TRA_1PNPDE20050901_061814_000000392040_00234_18324_0003.N1	01-SEP-2005 06:18:14	Dark	38.500	41	Eps Car	1.8600	4100.0	77	18324	No
33	GOM_TRA_1PNPDE20050901_062839_000000382040_00235_18325_0004.N1	01-SEP-2005 06:28:39	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	18325	No
34	GOM_TRA_1PNPDE20050901_063413_000000472040_00235_18325_0005.N1	01-SEP-2005 06:34:13	Twilight	47.000	148	Alp Tuc	2.8780	4100.0	94	18325	No
35	GOM_TRA_1PNPDE20050901_063753_000000422040_00235_18325_0006.N1	01-SEP-2005 06:37:53	Twilight	41.500	31	Alp Gru	1.7340	15200.	83	18325	No
36	GOM_TRA_1PNPDE20050901_064043_000000402040_00235_18325_0007.N1	01-SEP-2005 06:40:43	Bright	40.000	172	Gam Gru	3.0030	13100.	80	18325	No
37	GOM_TRA_1PNPDE20050901_070308_000000362040_00235_18325_0008.N1	01-SEP-2005 07:03:08	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	18325	No

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



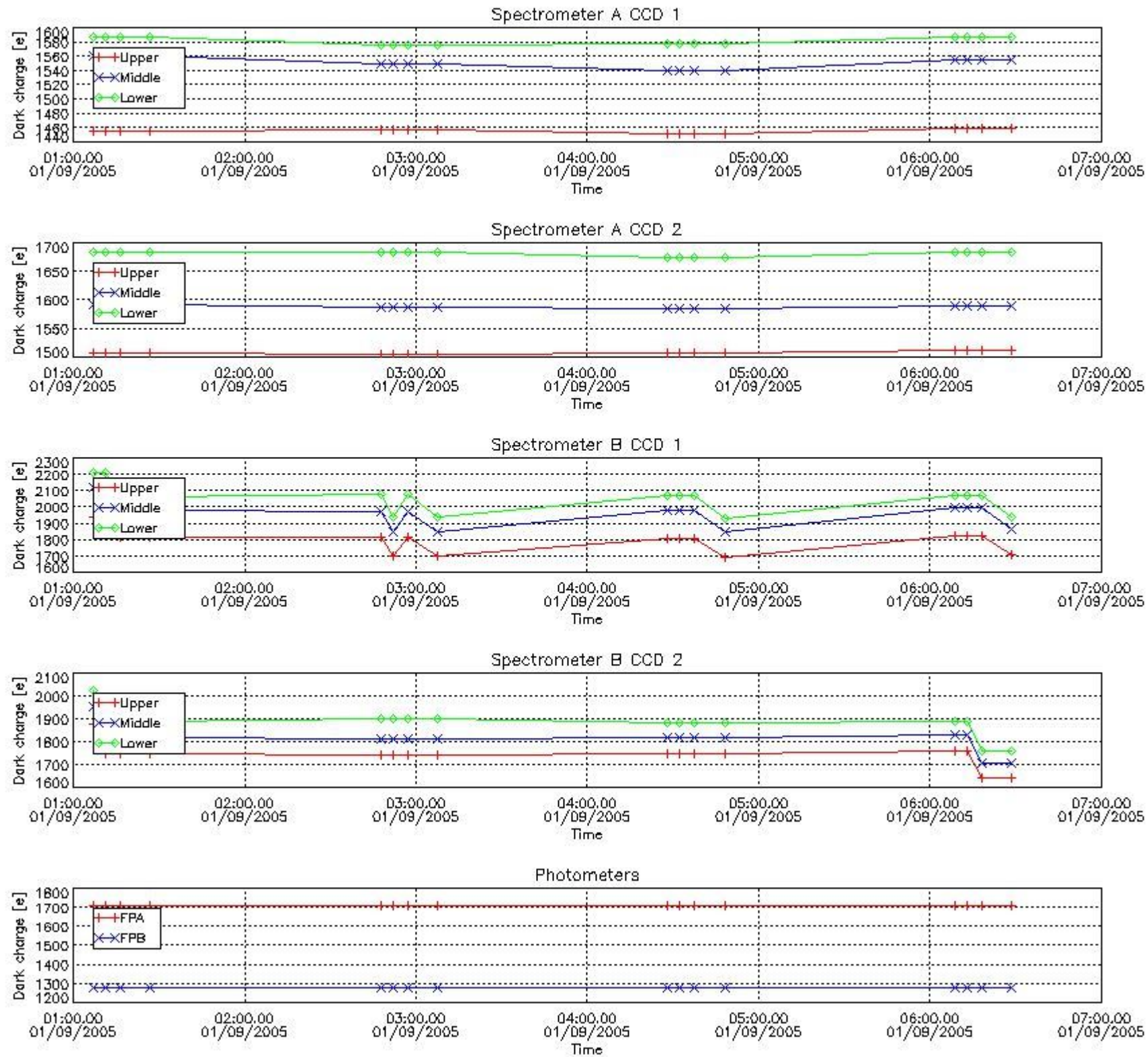
4. Overview of dark signal processing per product

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



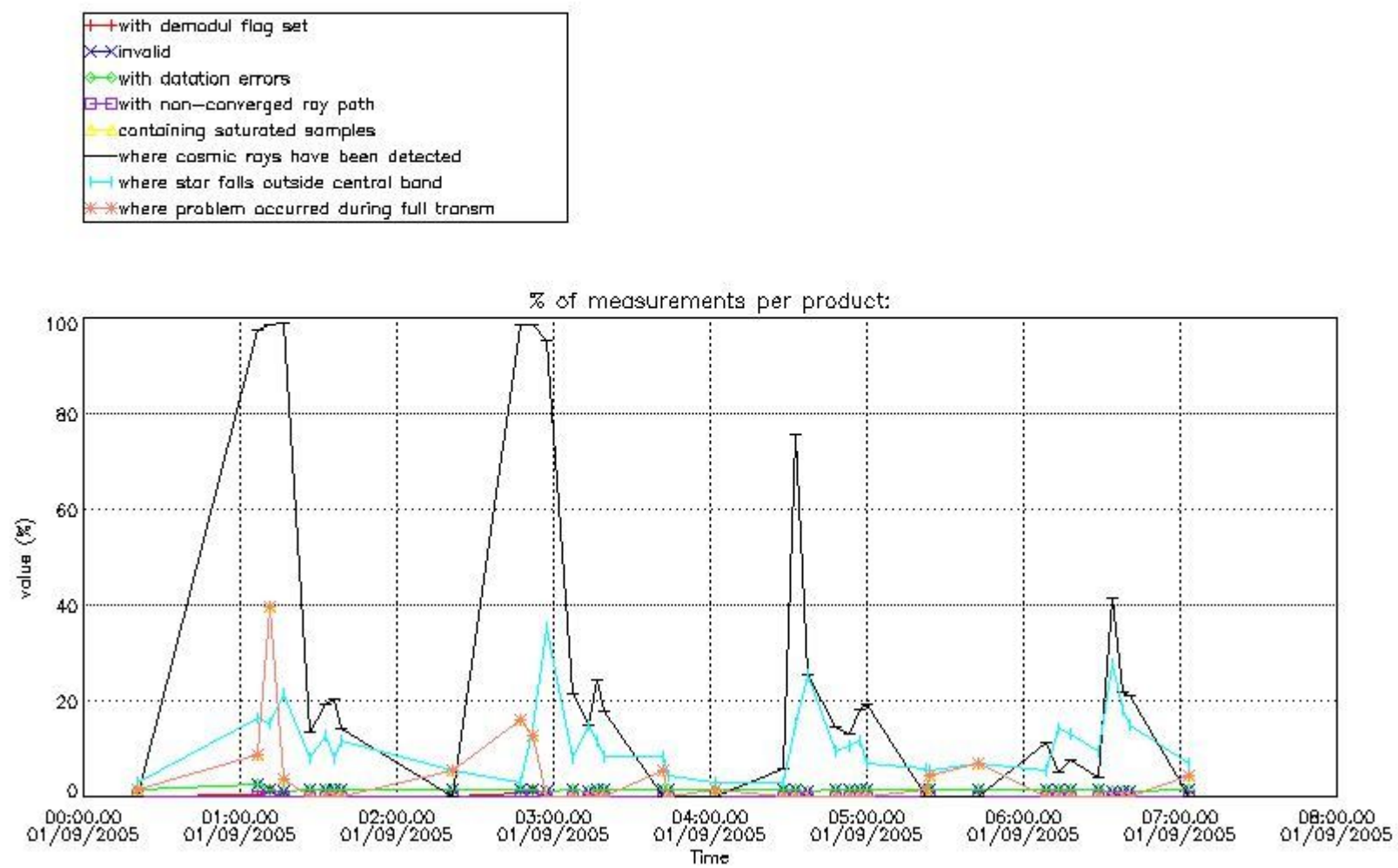
5. Demodulation flag and quality information monitoring

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.

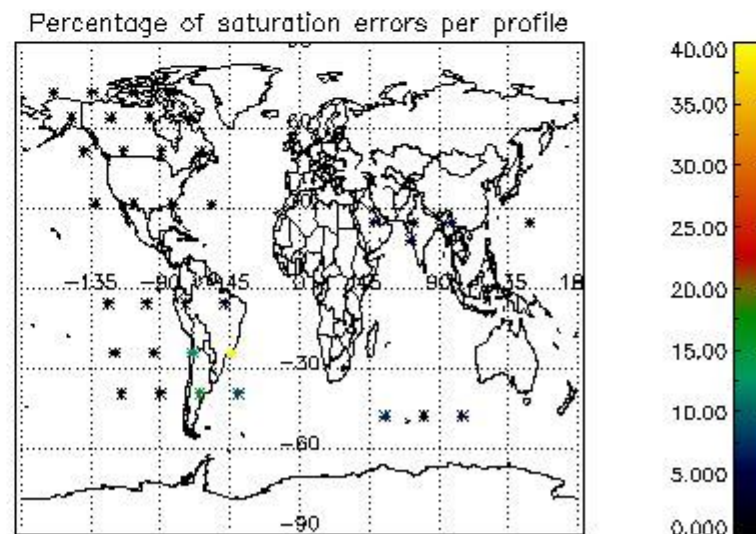
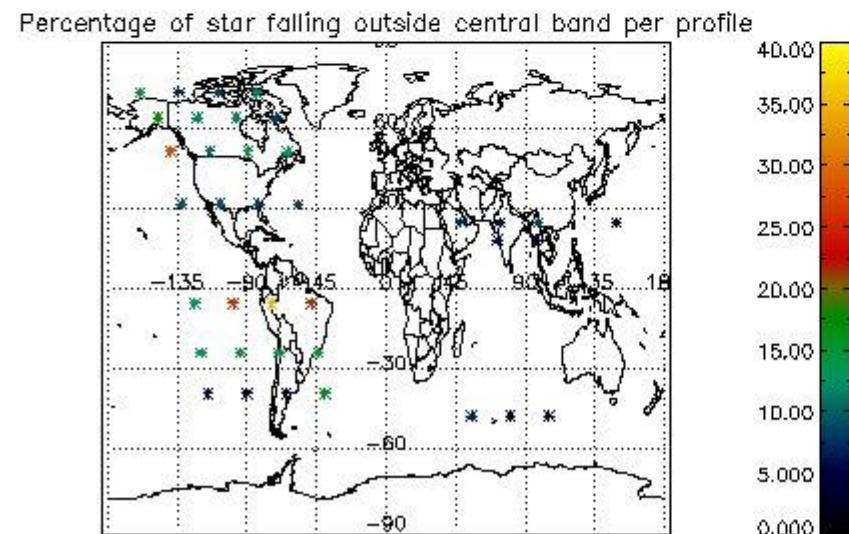
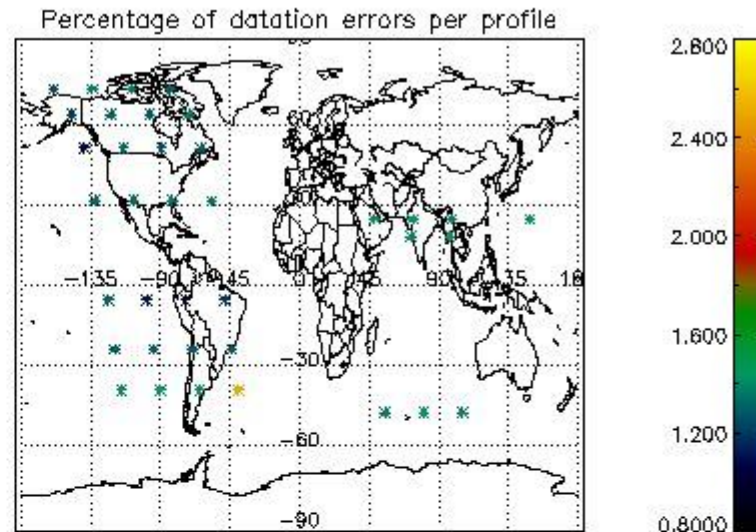
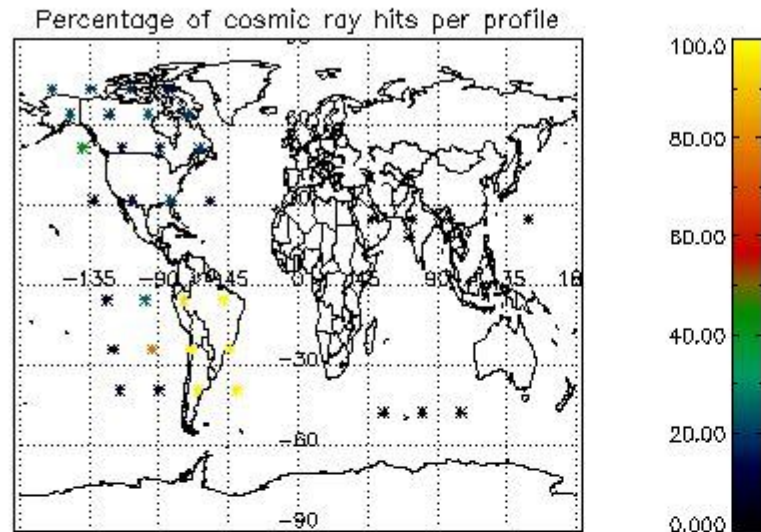
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	21.6216 %
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)



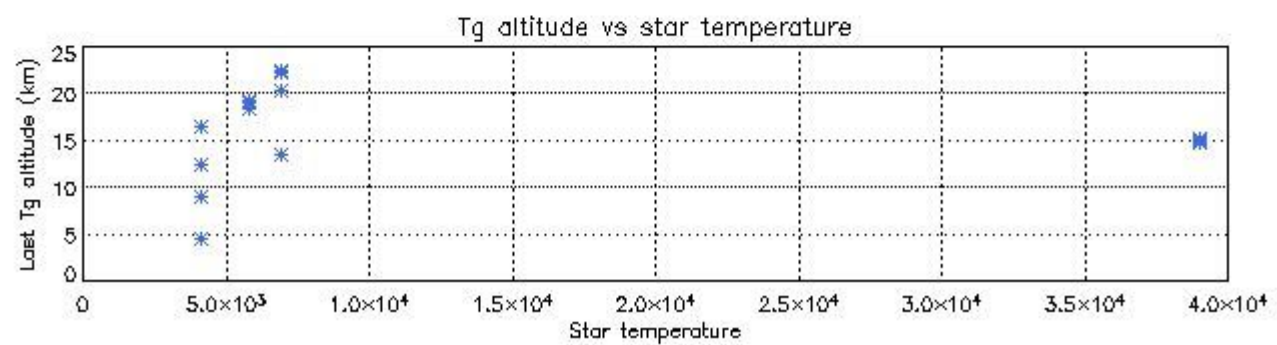
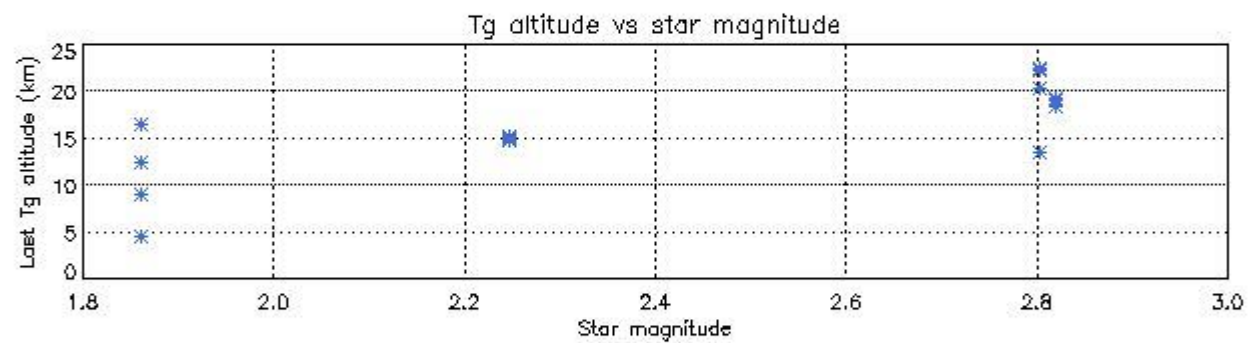
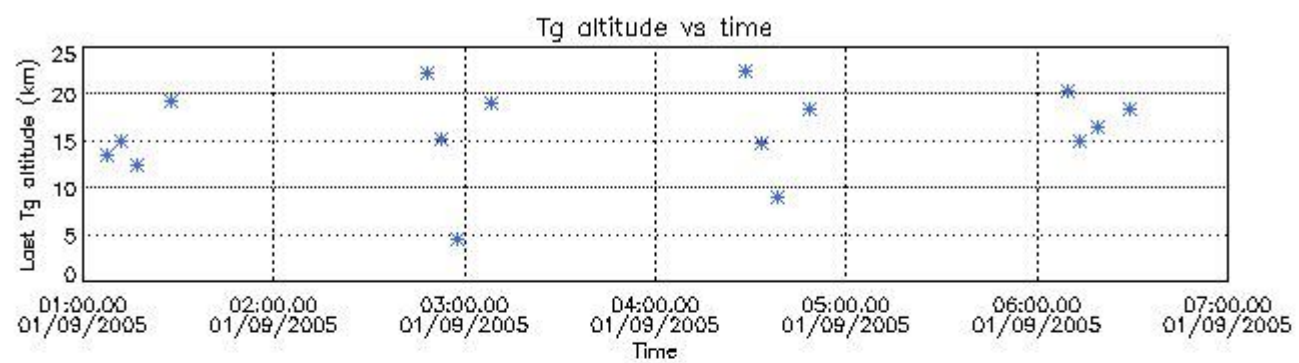
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.972	20.557	15.620
St. deviation:	4.7570	2.6165	3.8384
Maximum:	22.495	24.520	19.855
Minimum:	4.3981	14.775	7.2561
Number of data:	16.000	13.000	8.0000

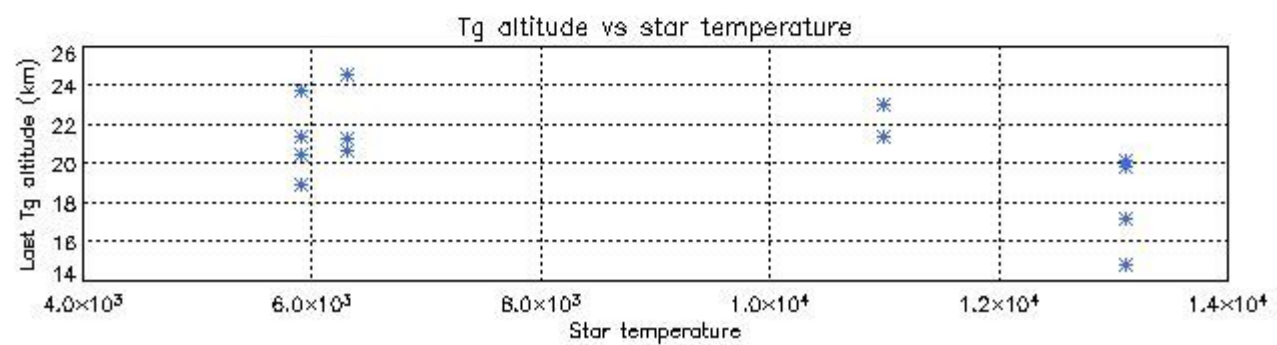
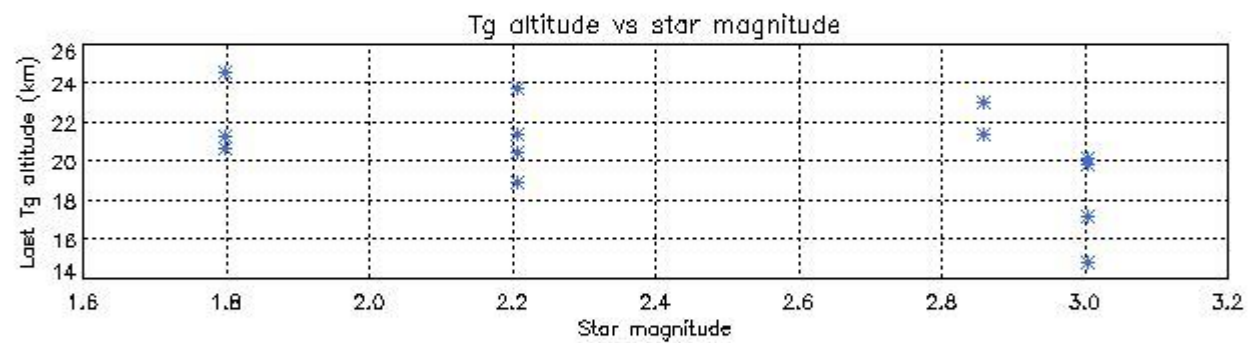
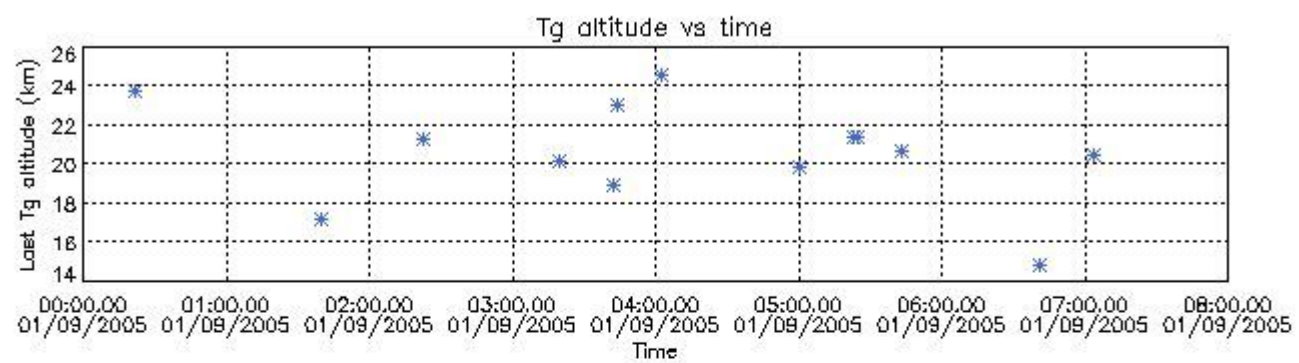
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



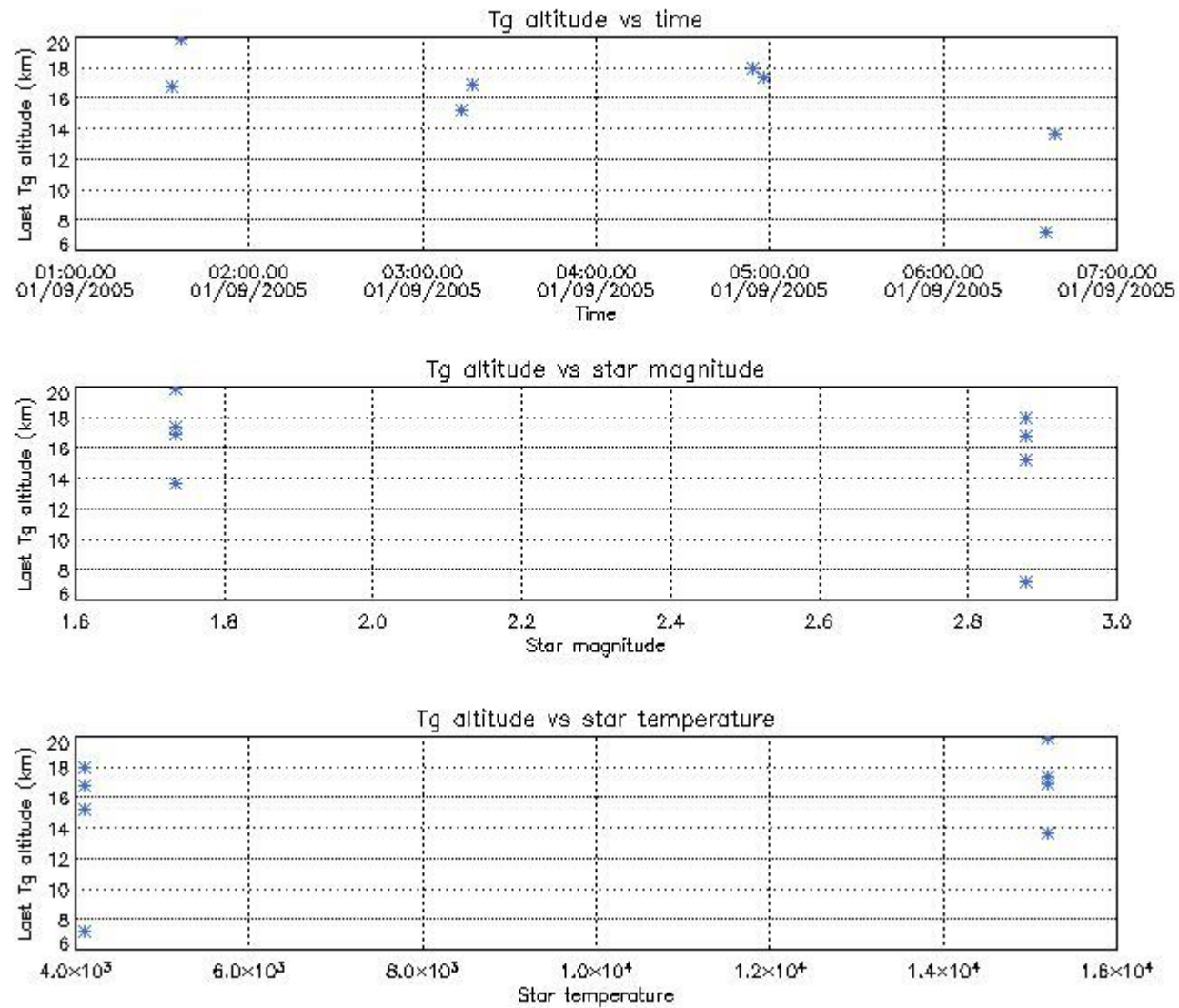
6.3 Plot for BRIGHT limb products

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

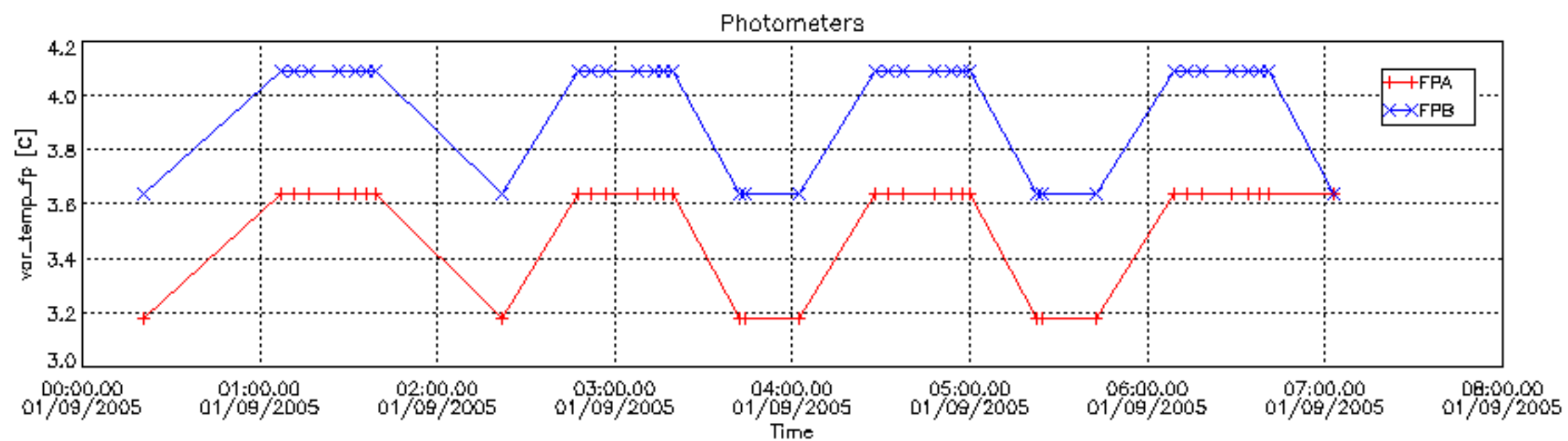
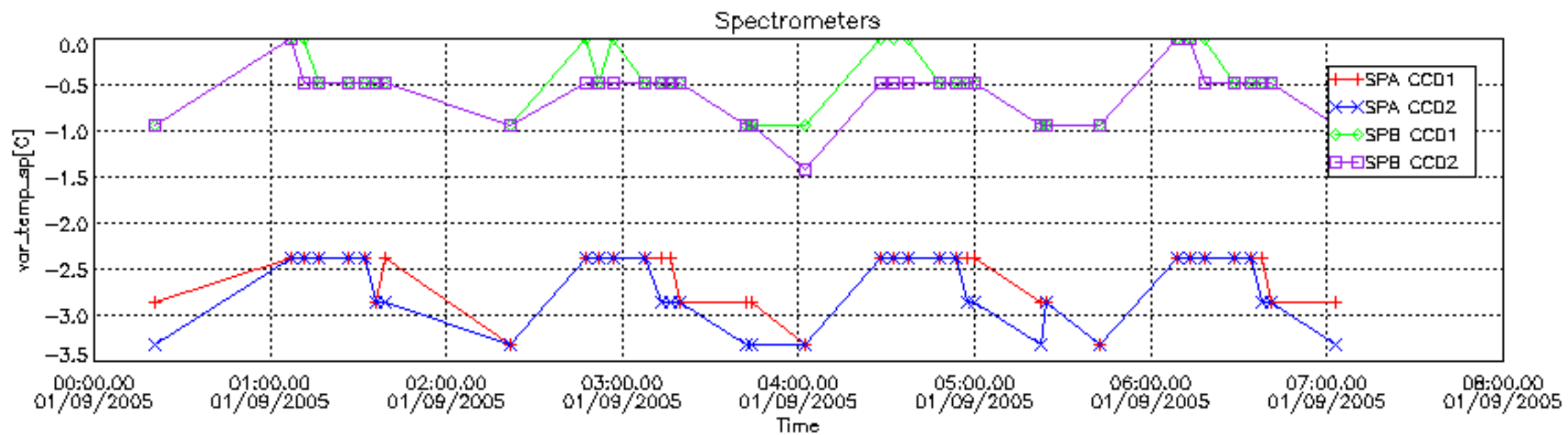
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

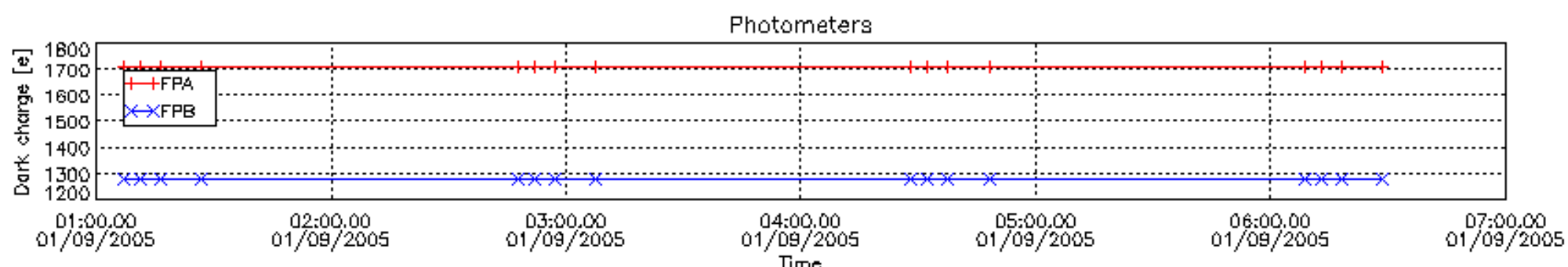
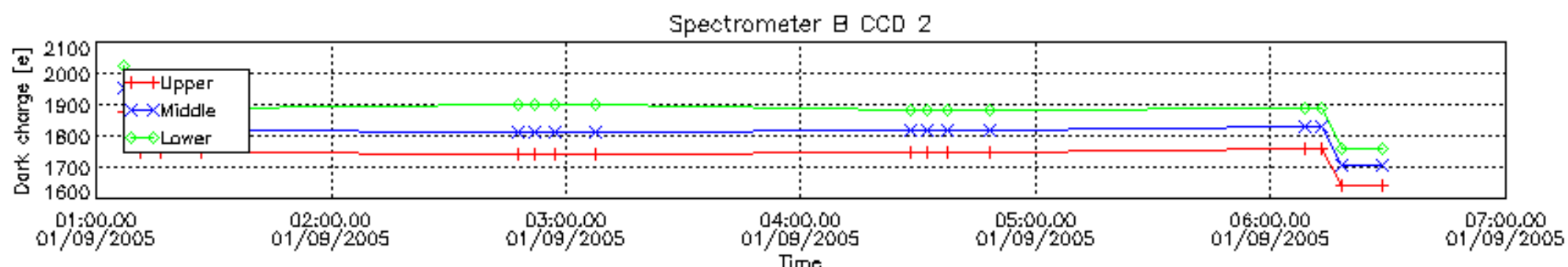
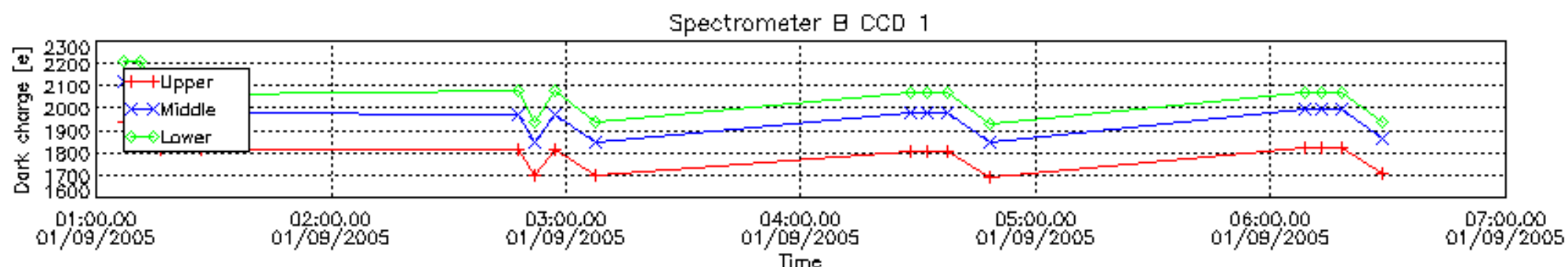
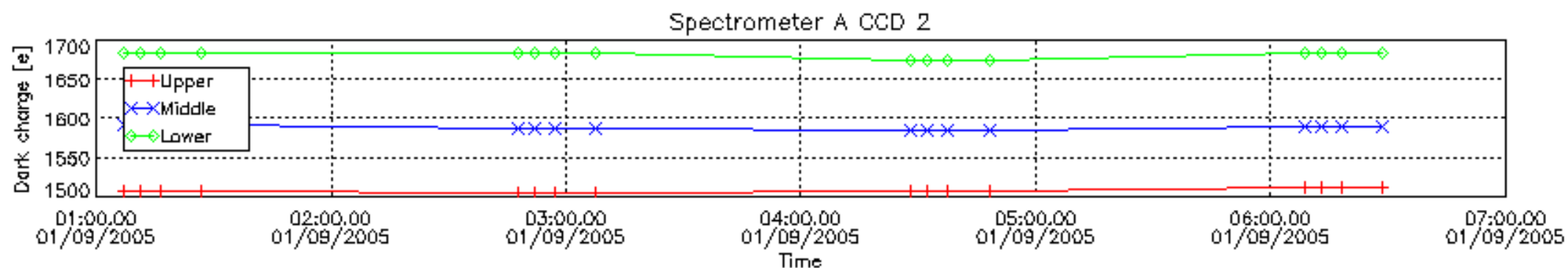
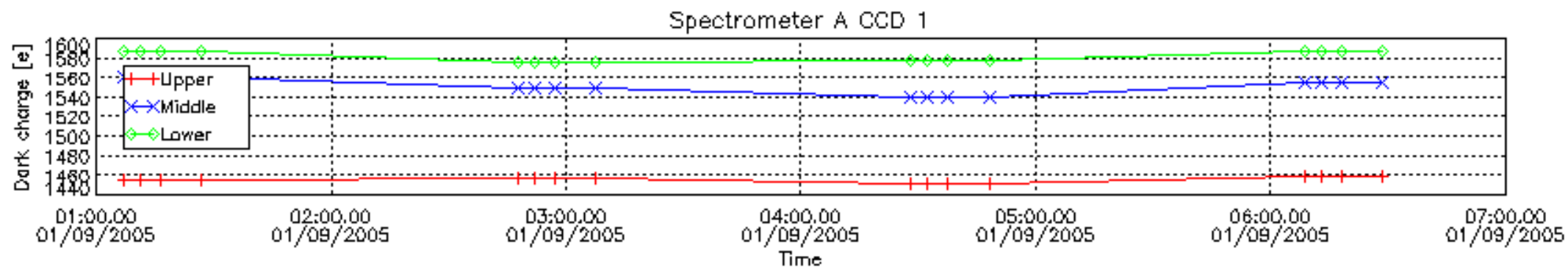
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1458.5	1445.3	1459.5	1444.8
St. deviation:	6.3105	6.8719	8.7327	9.3394
Maximum:	1607.0	1597.0	1516.0	1498.0
Minimum:	1438.0	1422.0	1439.0	1423.0
Number of data:	13150.	13150.	10750.	10750.

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

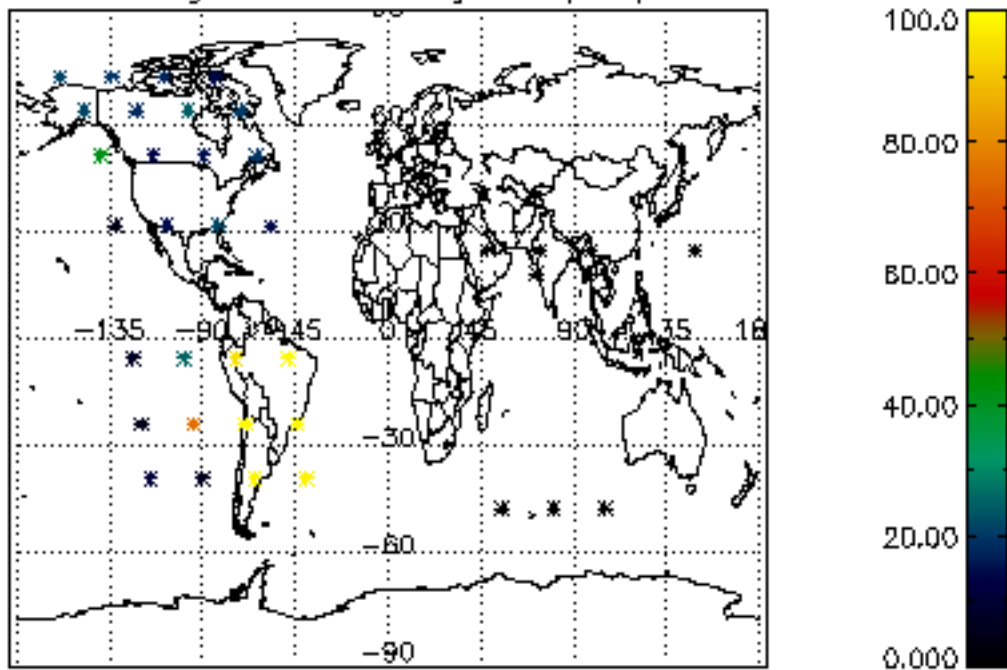
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	01-SEP-2005 00:20:44
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050825_110110_20050824_000000_20100101_000000	1	01-SEP-2005 00:20:44
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	01-SEP-2005 00:20:44
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-SEP-2005 00:20:44
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	01-SEP-2005 00:20:44
ECMWF_FILE	AUX_ECF_AXNECM20050831_060732_20050831_210000_20050901_090000	1	01-SEP-2005 00:20:44
ECMWF_FILE	AUX_ECF_AXNECM20050831_193145_20050901_030000_20050901_150000	19	01-SEP-2005 04:02:14
ECMWF_FILE	AUX_ECA_AXNECM20050901_070131_20050831_210000_20050901_090000	29	01-SEP-2005 05:42:51
OPTIONAL_ECMWF_FILE	NOT USED	1	01-SEP-2005 00:20:44
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050831_233126_20050831_183536_20050910_200148	1	01-SEP-2005 00:20:44

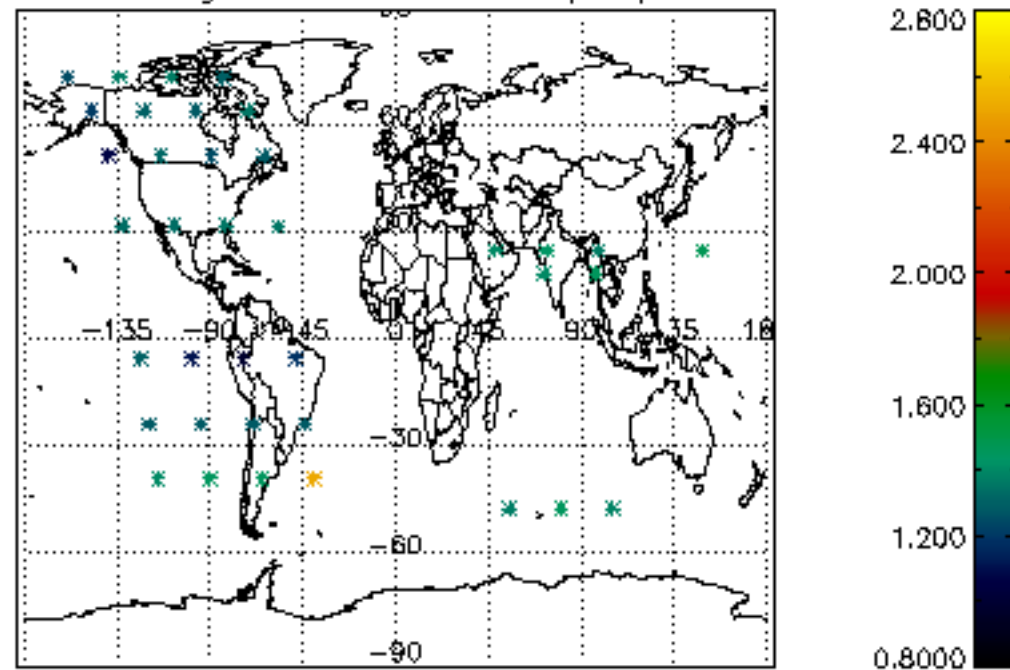




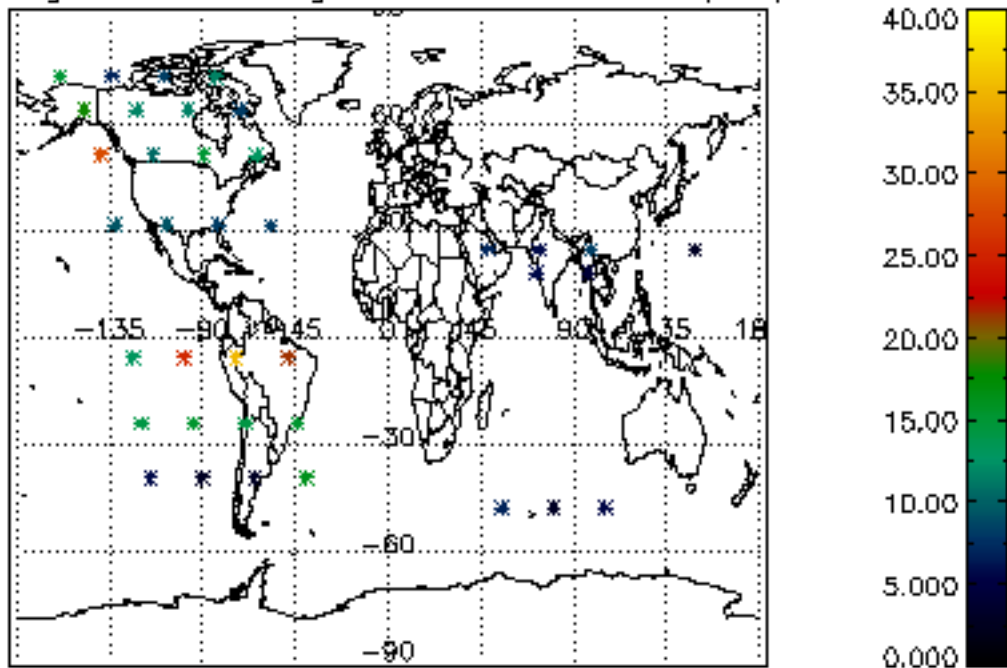
Percentage of cosmic ray hits per profile



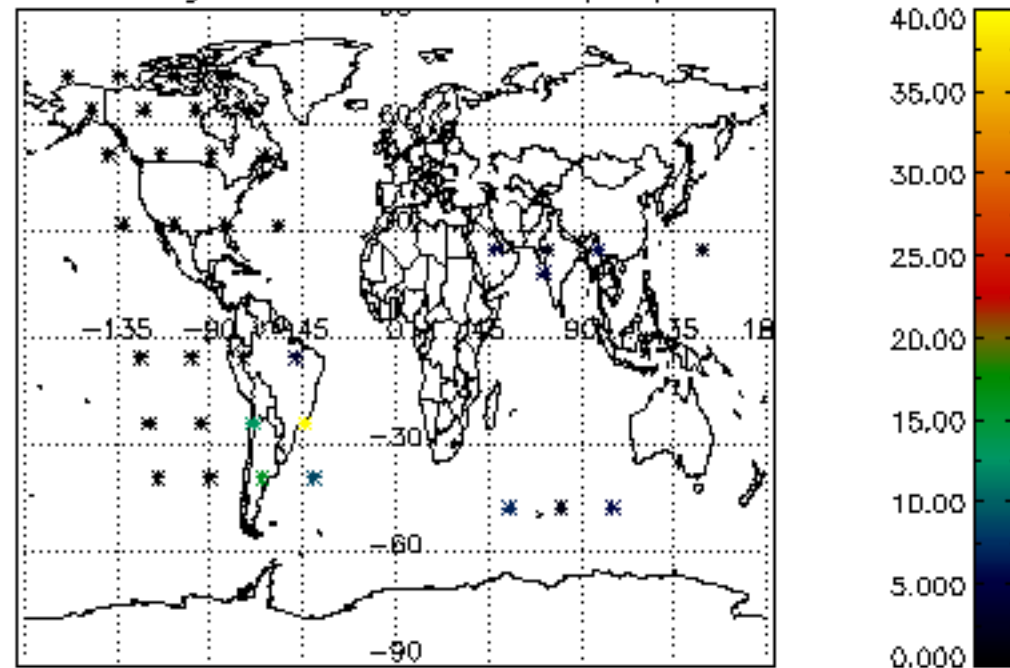
Percentage of datation errors per profile



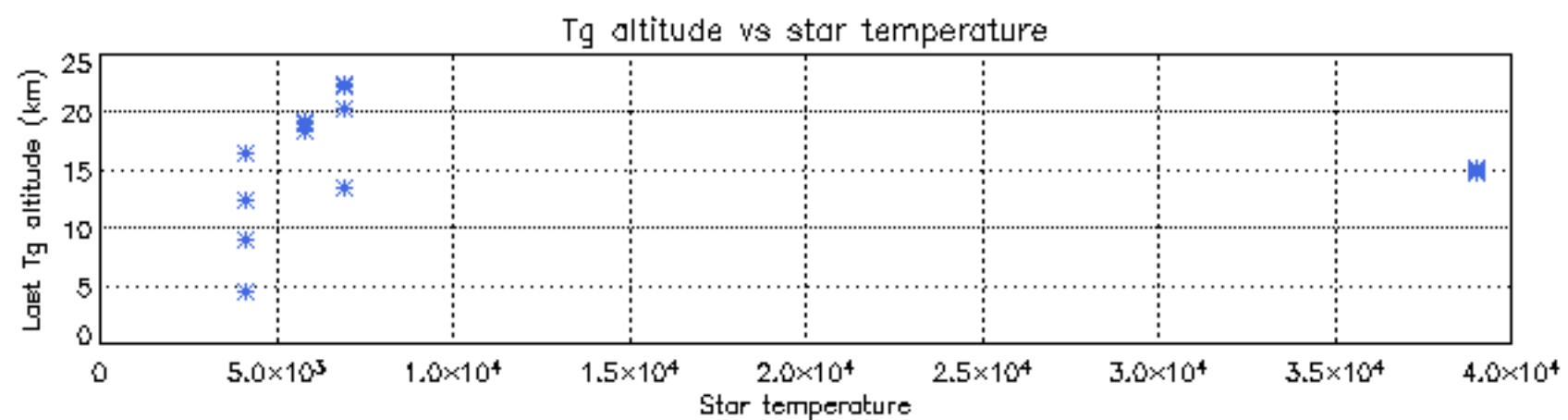
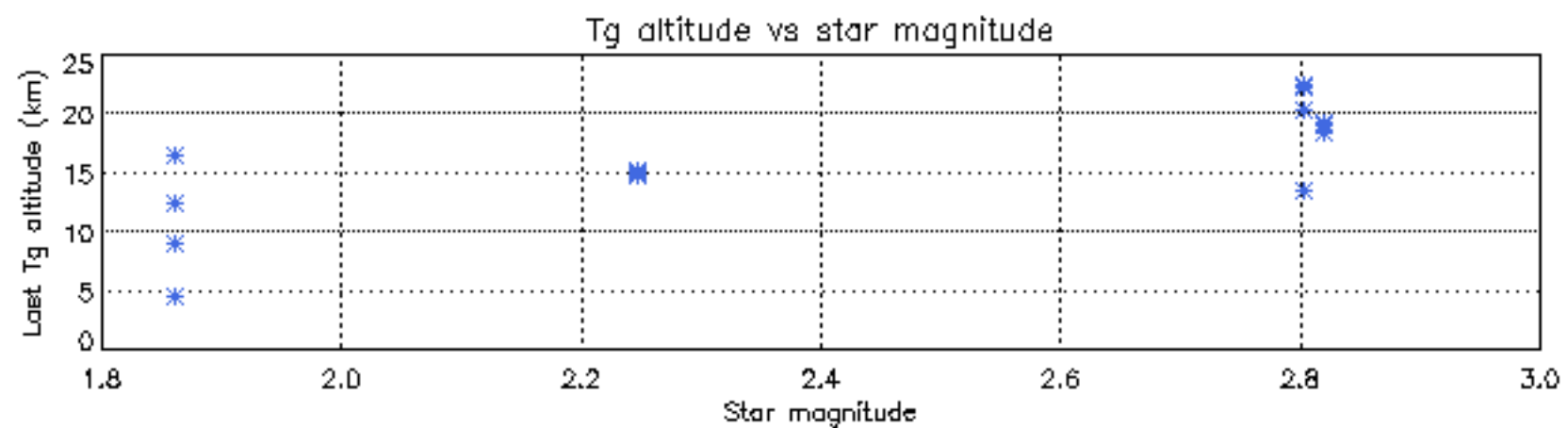
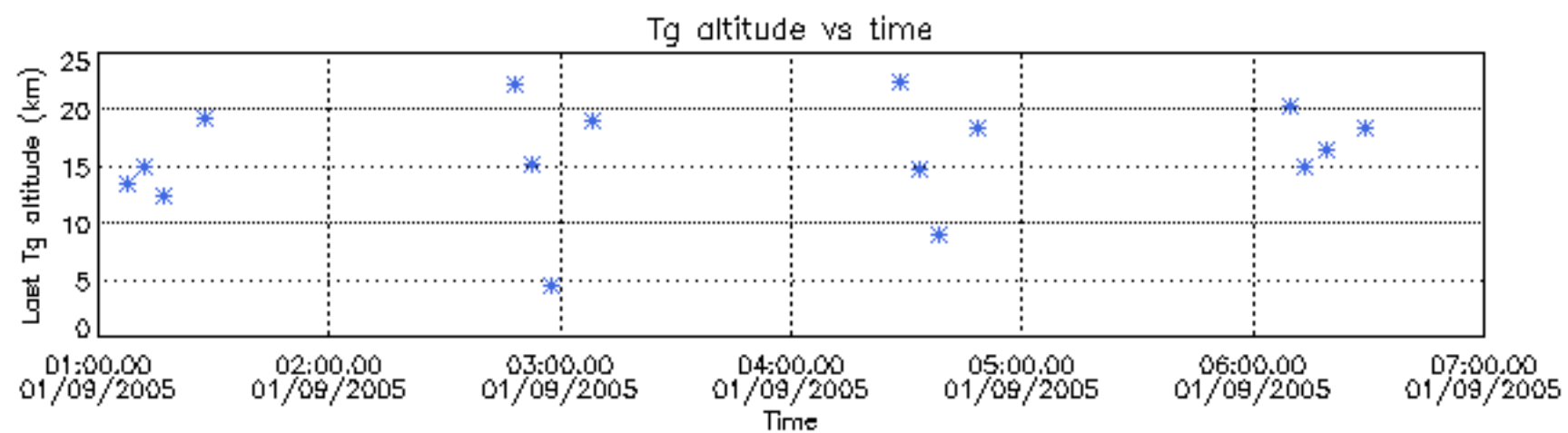
Percentage of star falling outside central band per profile



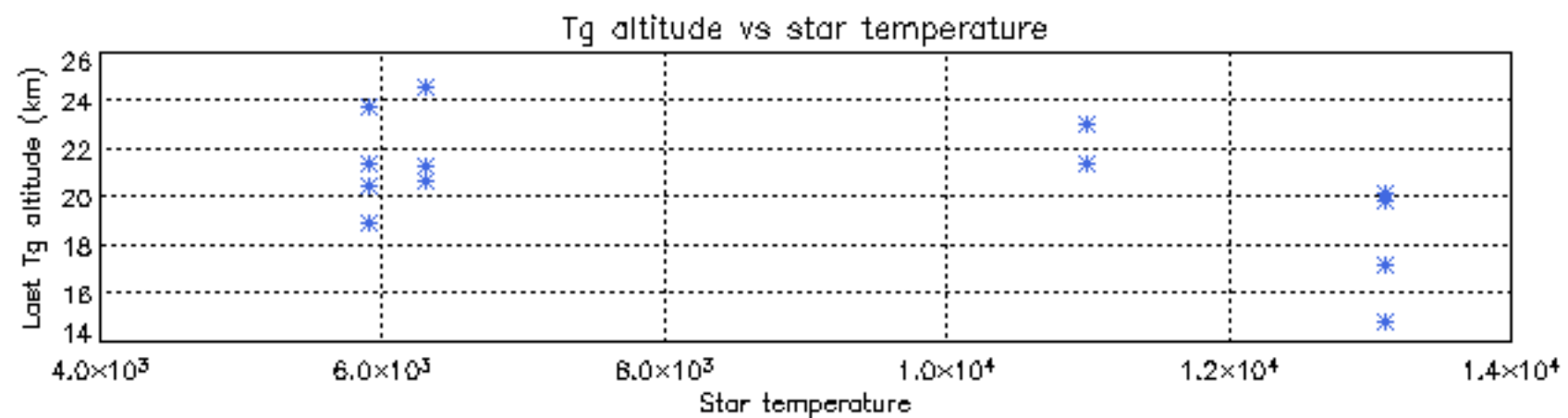
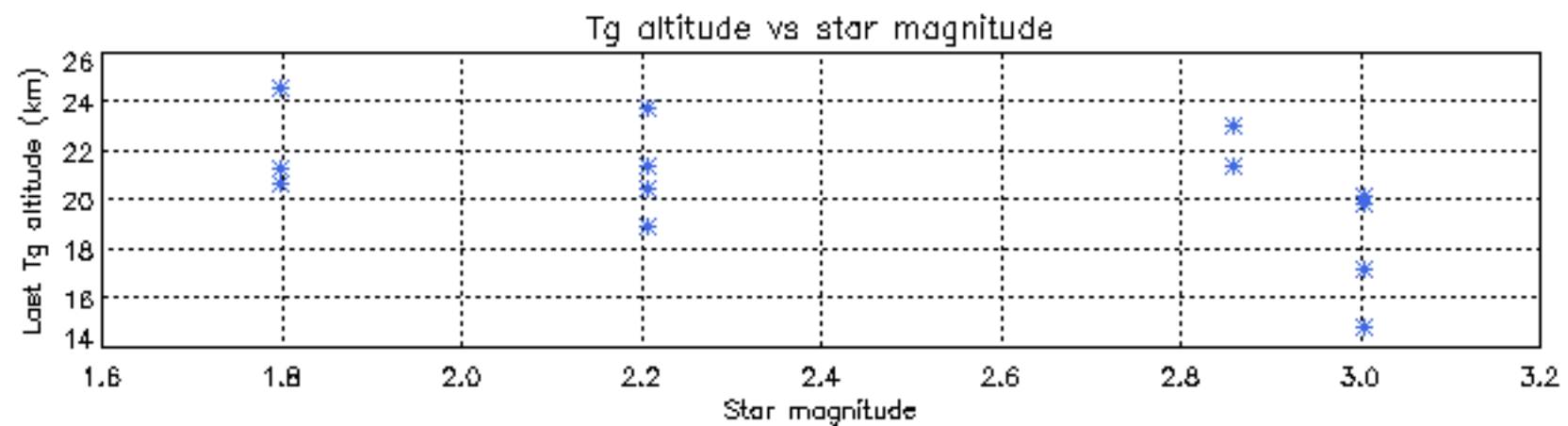
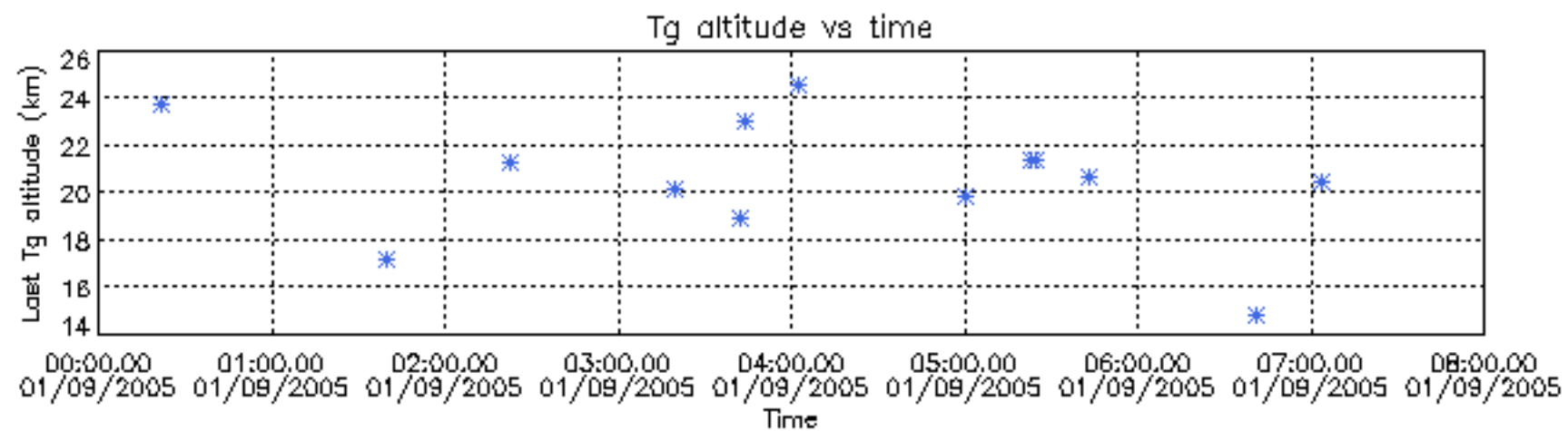
Percentage of saturation errors per profile



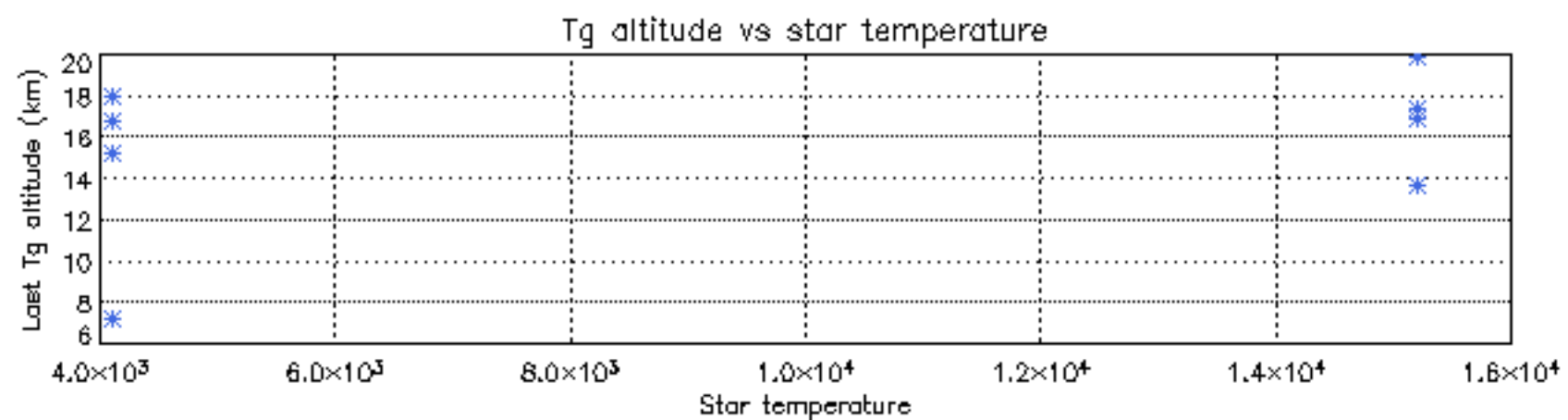
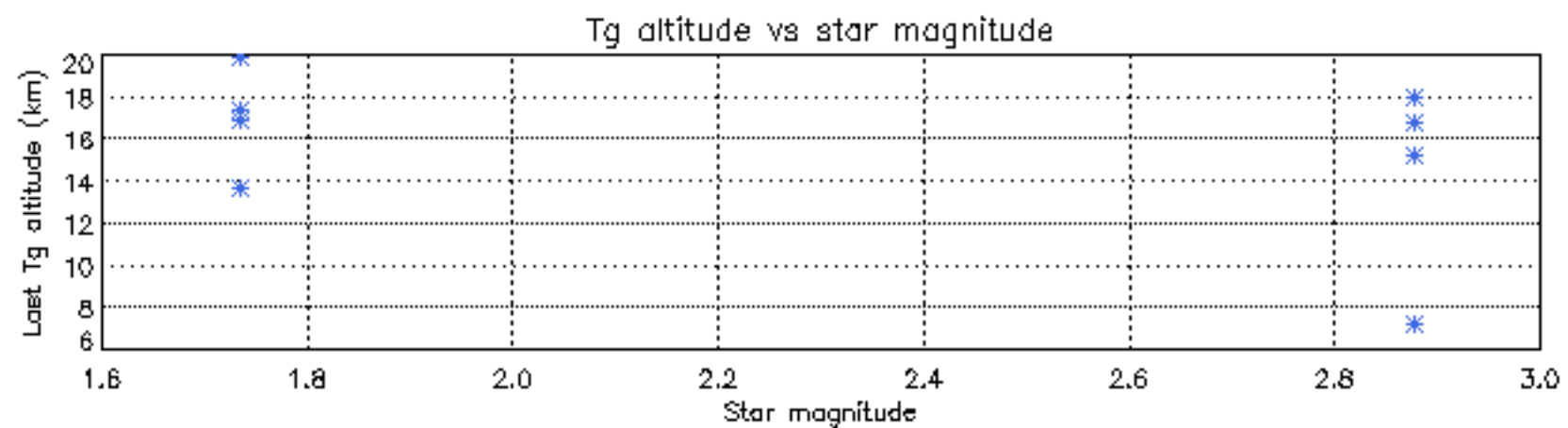
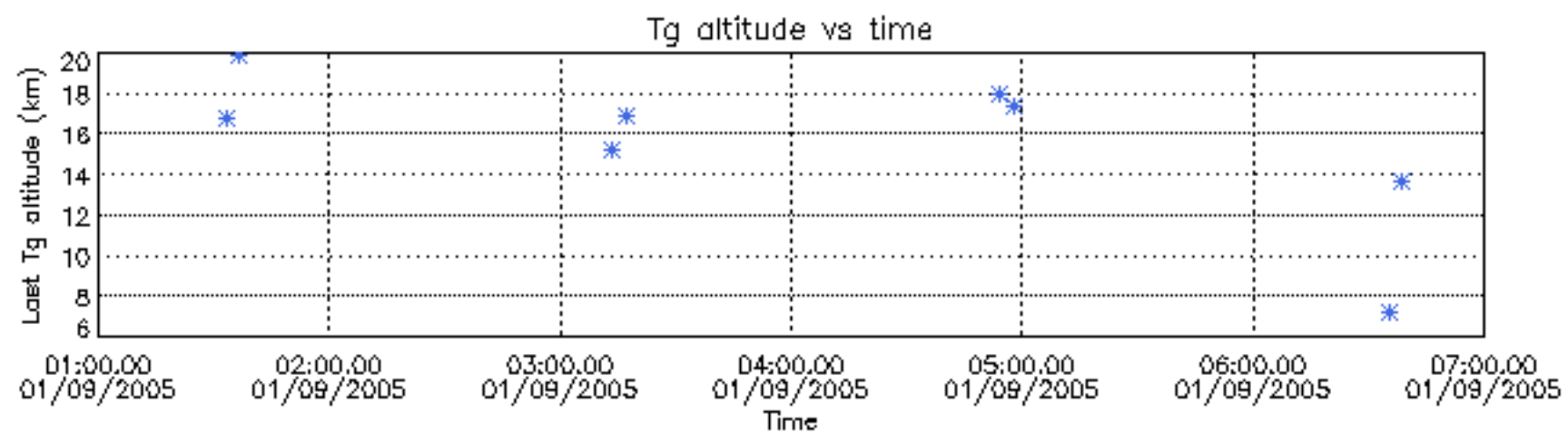
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20050901_054251_000056752040_00234_18324_0362.N1
 1;-2216.4; 01-SEP-2005 05:42:51; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;18324
 2; -661.8; 01-SEP-2005 06:08:45; Dark ; 35.5; 132; 15Rho Pup ; 2.80; 6900;occ; 71; 0;18324
 3; -403.8; 01-SEP-2005 06:13:03; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;18324
 4; -276.3; 01-SEP-2005 06:15:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;18324
 5; -93.0; 01-SEP-2005 06:18:14; Dark ; 38.5; 41; Eps Car ; 1.86; 4100;occ; 77; 0;18324
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