

GOMOS Daily Report 03-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	07SEP2005 05:09:21

Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-4D (03SEP2005 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-4D (04SEP2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	16
Nb of prods with errors	0

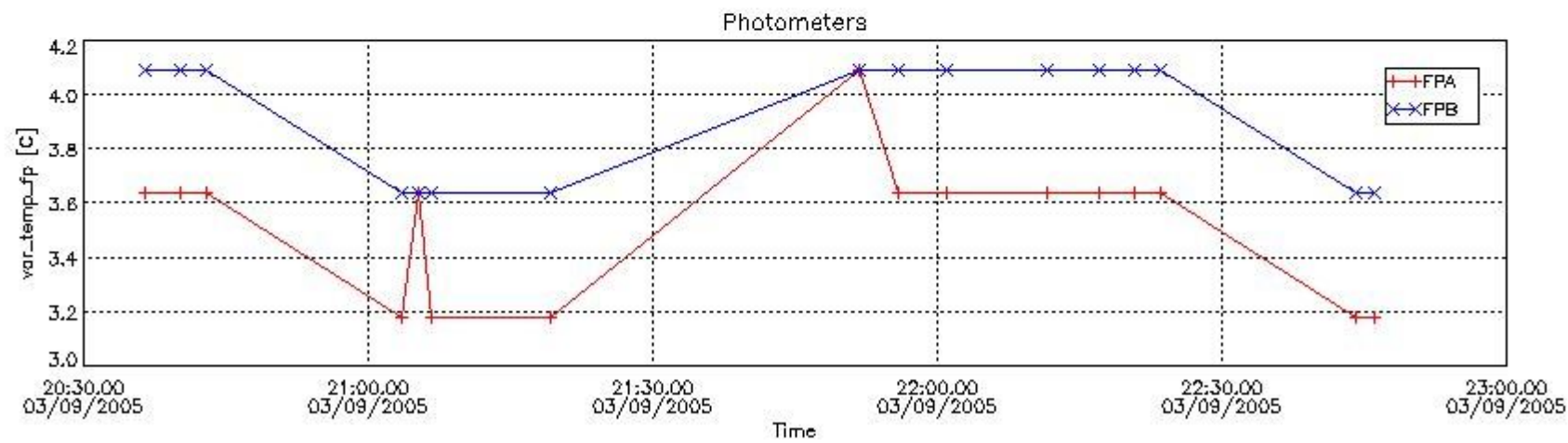
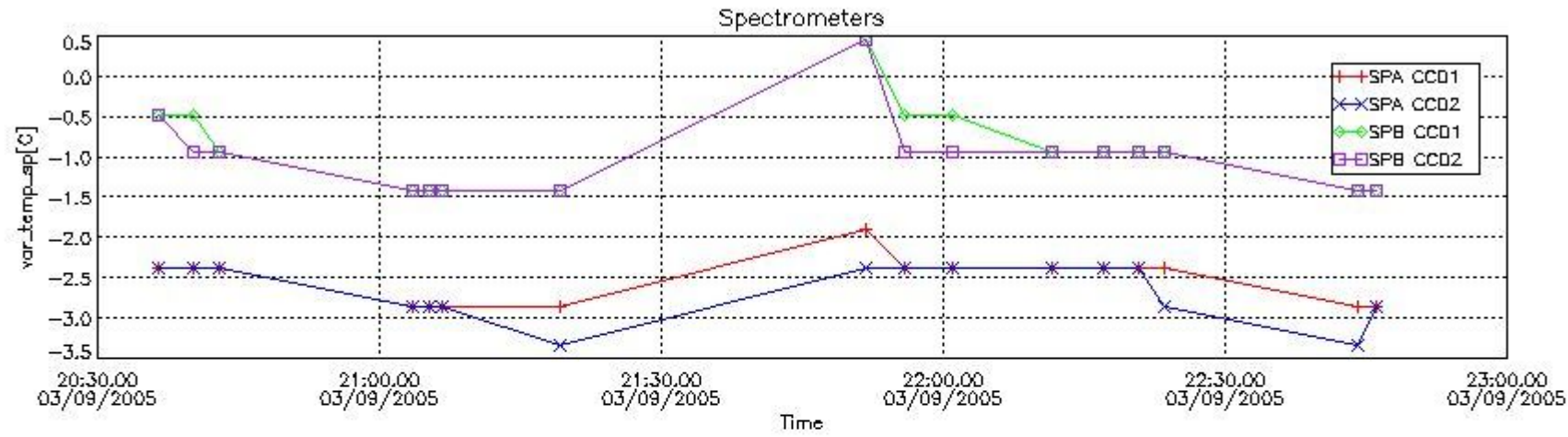
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20050903_203630_000000452040_00272_18362_0000.N1	03-SEP-2005 20:36:30	Twilight	45.000	148	Alp Tuc	2.8780	4100.0	90	18362	No
2	GOM_TRA_1PNPDE20050903_204011_000000422040_00272_18362_0001.N1	03-SEP-2005 20:40:11	Twilight	41.500	31	Alp Gru	1.7340	15200.	83	18362	No
3	GOM_TRA_1PNPDE20050903_204300_000000392040_00272_18362_0002.N1	03-SEP-2005 20:43:00	Bright	38.500	172	Gam Gru	3.0030	13100.	77	18362	No
4	GOM_TRA_1PNPDE20050903_210327_000000352040_00272_18362_0003.N1	03-SEP-2005 21:03:27	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	18362	No
5	GOM_TRA_1PNPDE20050903_210523_000000342040_00272_18362_0004.N1	03-SEP-2005 21:05:23	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	18362	No
6	GOM_TRA_1PNPDE20050903_210637_000000372040_00272_18362_0005.N1	03-SEP-2005 21:06:37	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	18362	No
7	GOM_TRA_1PNPDE20050903_211910_000000362040_00272_18362_0006.N1	03-SEP-2005 21:19:10	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18362	No
8	GOM_TRA_1PNPDE20050903_215140_000000402040_00272_18362_0000.N1	03-SEP-2005 21:51:40	Dark	39.500	132	15Rho Pup	2.8030	6900.0	79	18362	No
9	GOM_TRA_1PNPDE20050903_215557_000000392040_00272_18362_0001.N1	03-SEP-2005 21:55:57	Dark	39.000	70	Zet Pup	2.2460	39000.	78	18362	No
10	GOM_TRA_1PNPDE20050903_220102_000000412040_00272_18362_0002.N1	03-SEP-2005 22:01:02	Dark	40.500	41	Eps Car	1.8600	4100.0	81	18362	No
11	GOM_TRA_1PNPDE20050903_221132_000000372040_00273_18363_0003.N1	03-SEP-2005 22:11:32	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18363	No
12	GOM_TRA_1PNPDE20050903_221706_000000432040_00273_18363_0004.N1	03-SEP-2005 22:17:06	Twilight	43.000	148	Alp Tuc	2.8780	4100.0	86	18363	No
13	GOM_TRA_1PNPDE20050903_222047_000000402040_00273_18363_0005.N1	03-SEP-2005 22:20:47	Twilight	39.500	31	Alp Gru	1.7340	15200.	79	18363	No
14	GOM_TRA_1PNPDE20050903_222336_000000382040_00273_18363_0006.N1	03-SEP-2005 22:23:36	Bright	37.500	172	Gam Gru	3.0030	13100.	75	18363	No
15	GOM_TRA_1PNPDE20050903_224403_000000342040_00273_18363_0007.N1	03-SEP-2005 22:44:03	Bright	33.500	92	53Eps Cyg	2.5000	4500.0	67	18363	No
16	GOM_TRA_1PNPDE20050903_224559_000000362040_00273_18363_0008.N1	03-SEP-2005 22:45:59	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	18363	No

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



4. Overview of dark signal processing per product

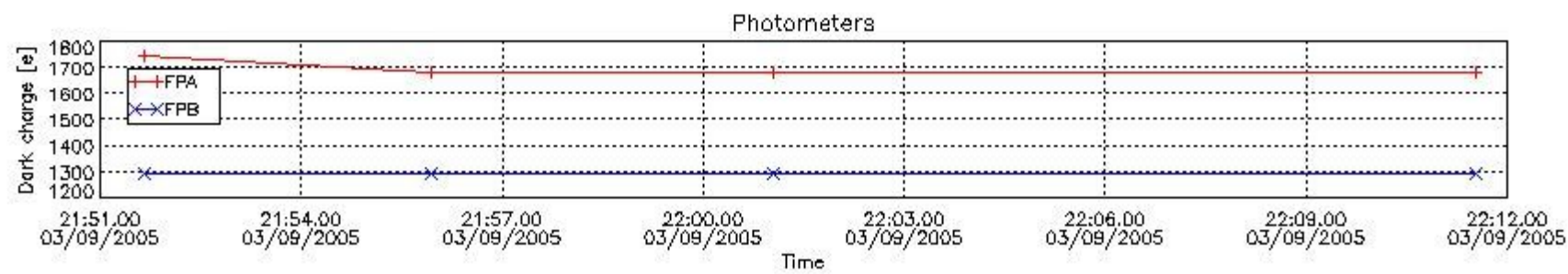
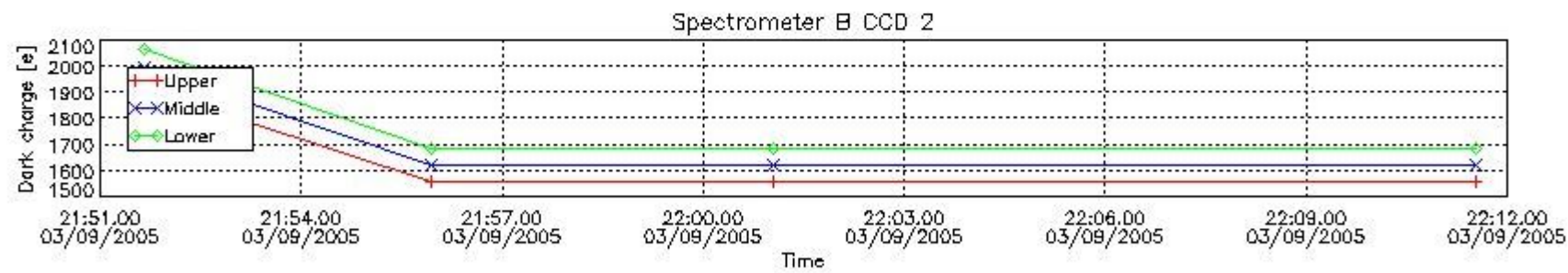
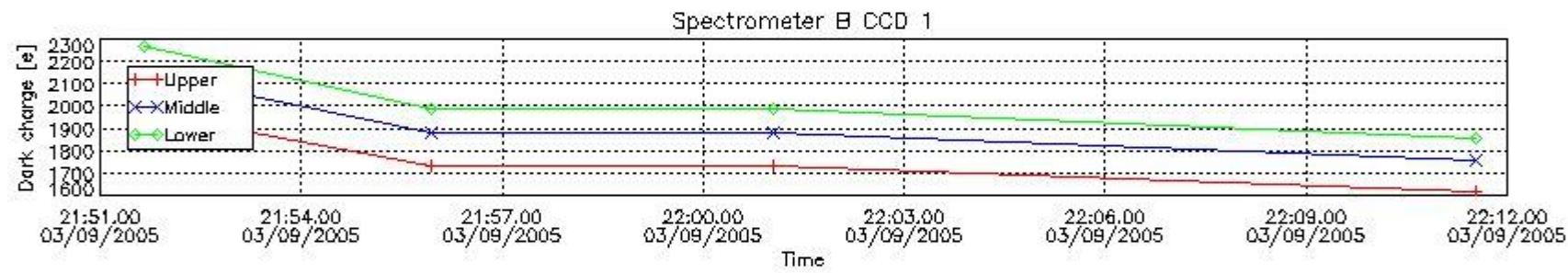
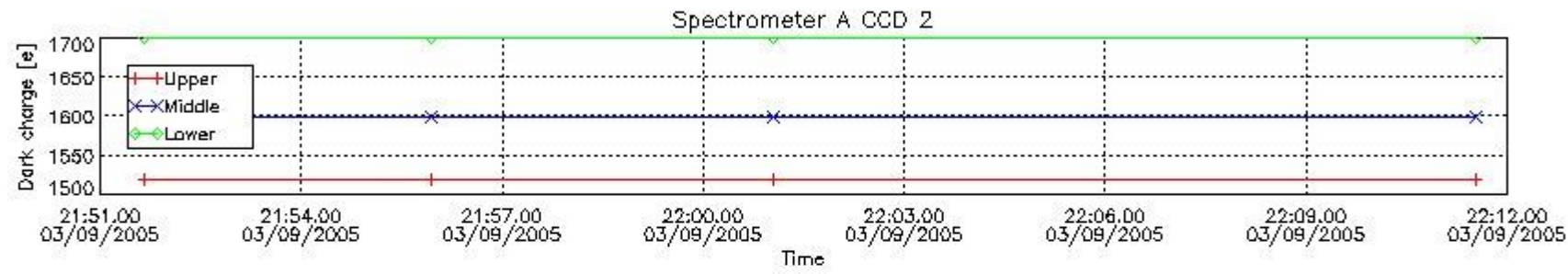
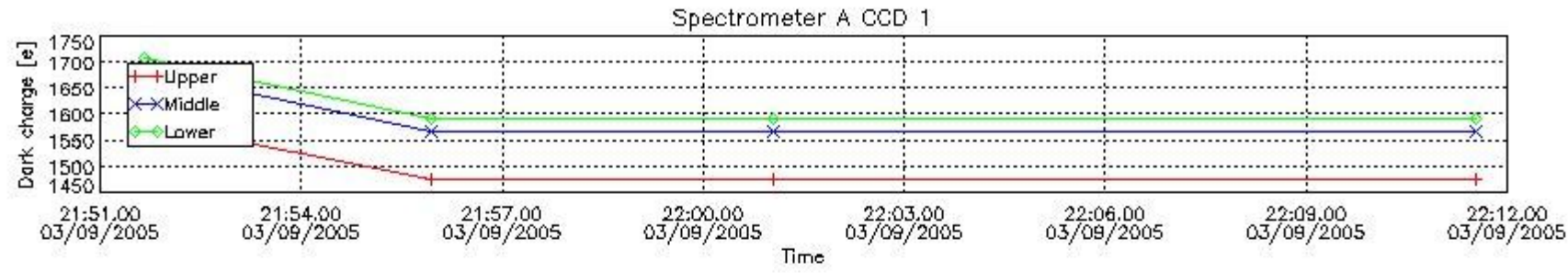
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20050903_203630_000000452040_00272_18362_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20050903_204011_000000422040_00272_18362_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20050903_204300_000000392040_00272_18362_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20050903_210327_000000352040_00272_18362_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20050903_210523_000000342040_00272_18362_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20050903_210637_000000372040_00272_18362_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20050903_211910_000000362040_00272_18362_0006.N1	DC map used (0)

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



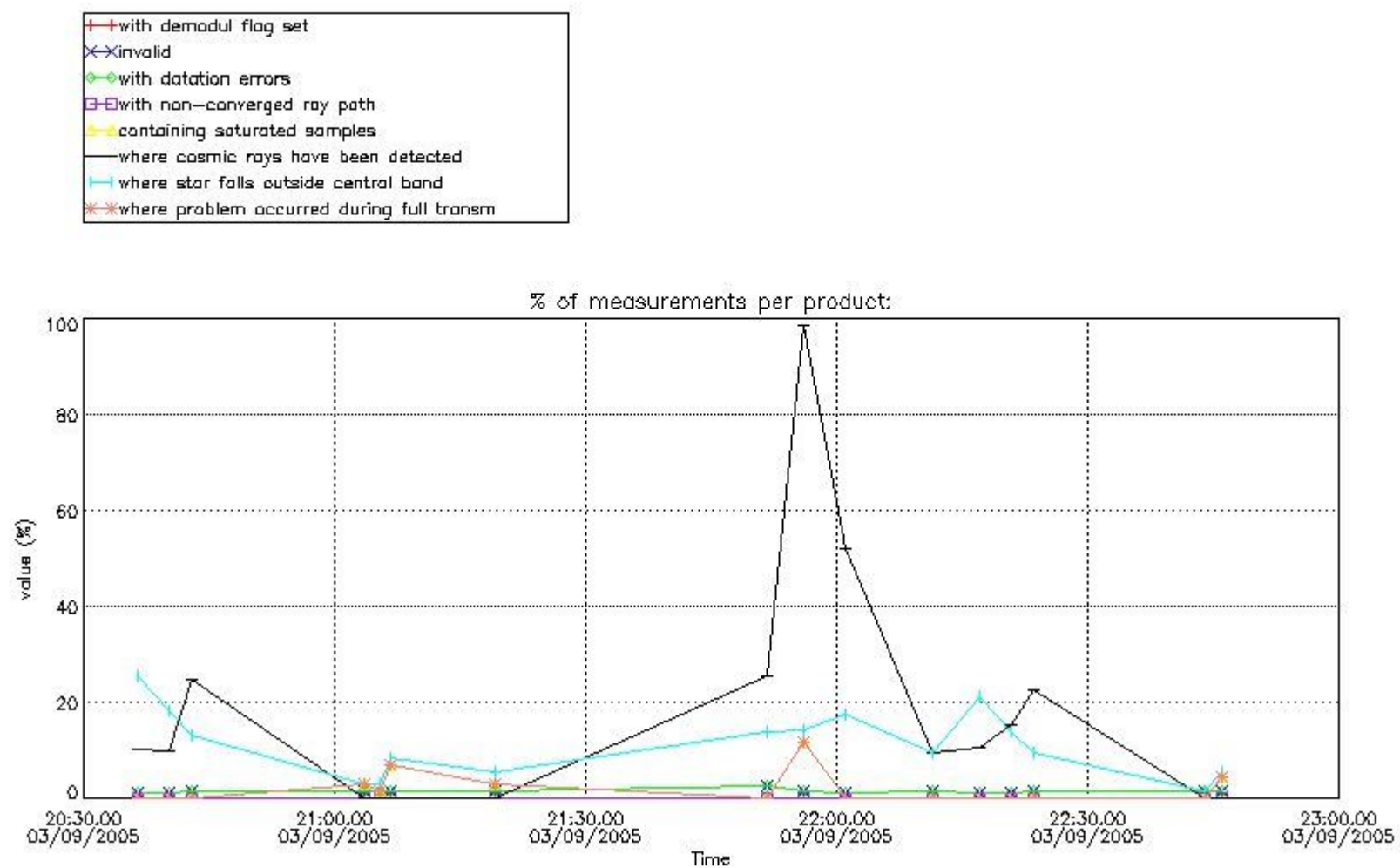
5. Demodulation flag and quality information monitoring

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.

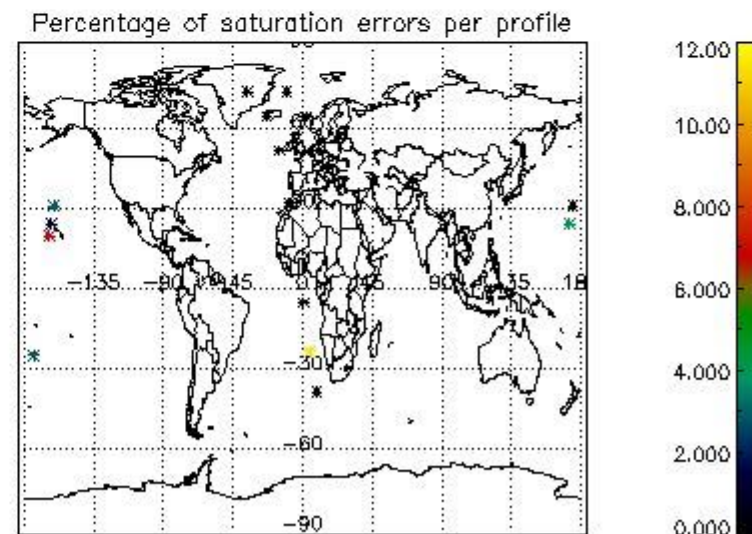
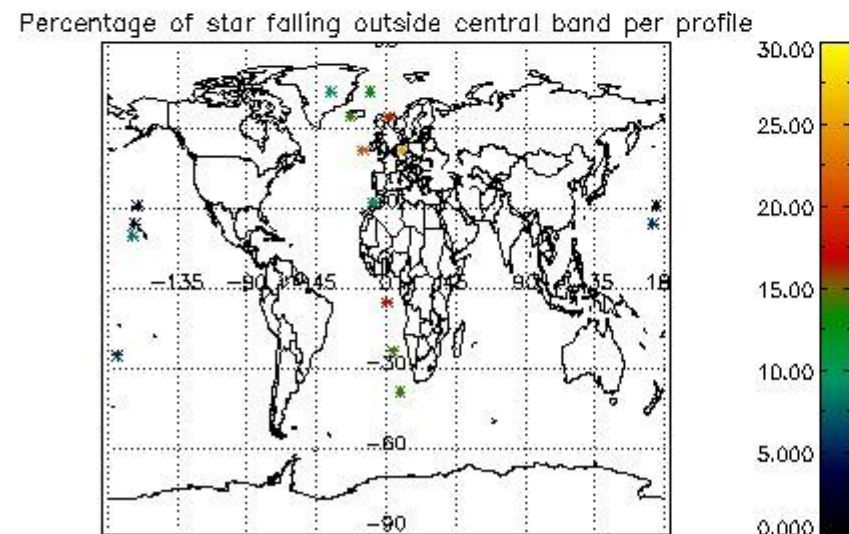
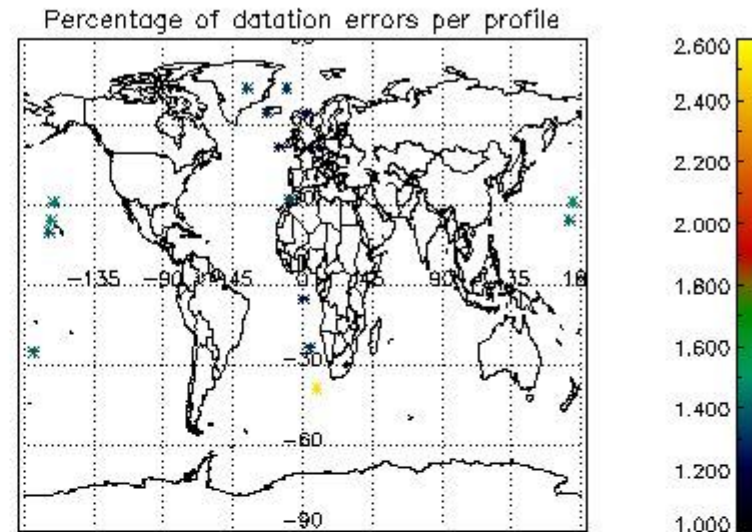
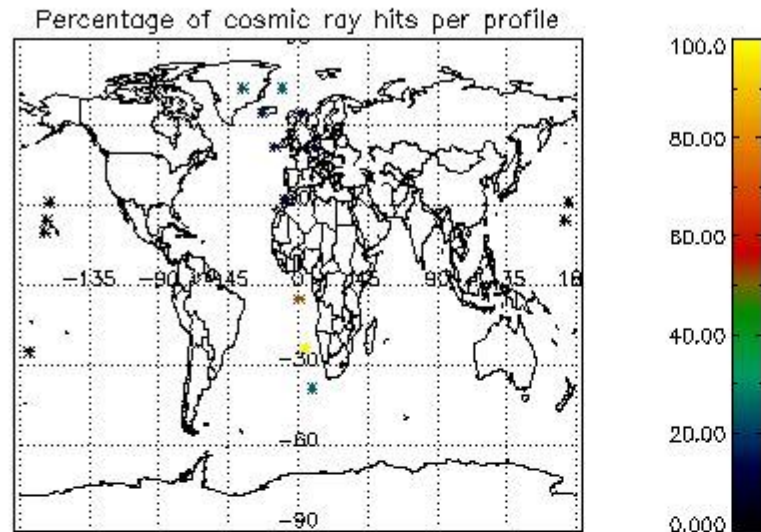
5.1 Percentage of products during reporting period with:

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)



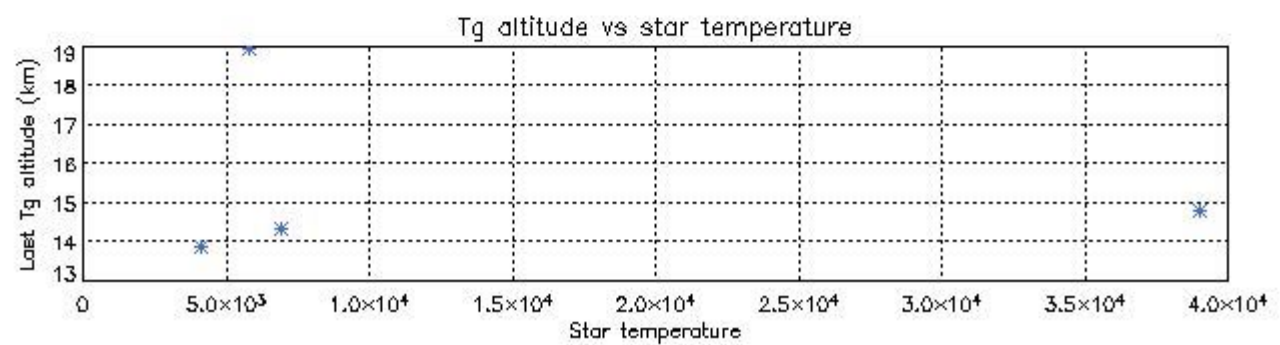
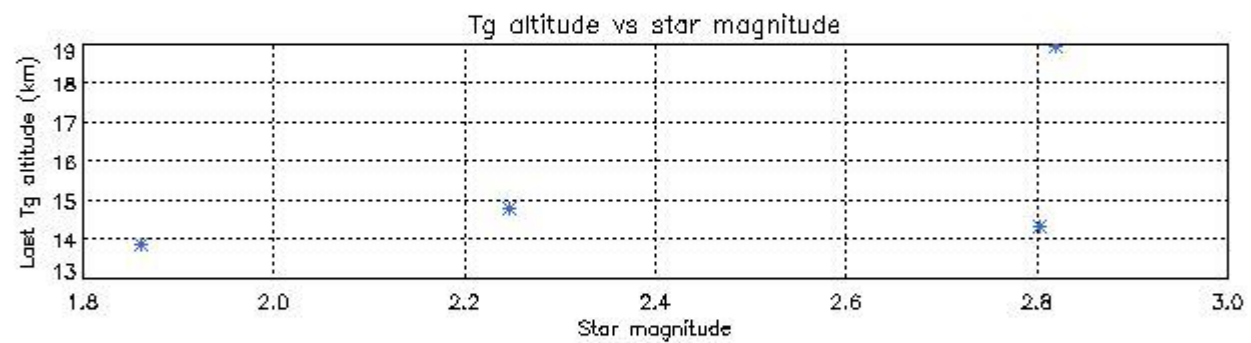
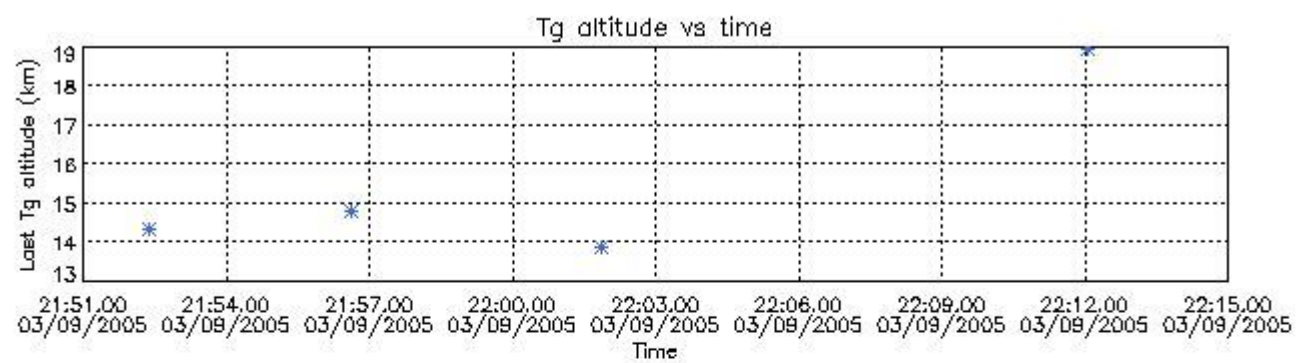
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.486	20.794	12.401
St. deviation:	2.3257	2.8508	2.9076
Maximum:	18.933	24.638	15.779
Minimum:	13.895	16.466	9.0578
Number of data:	4.0000	8.0000	4.0000

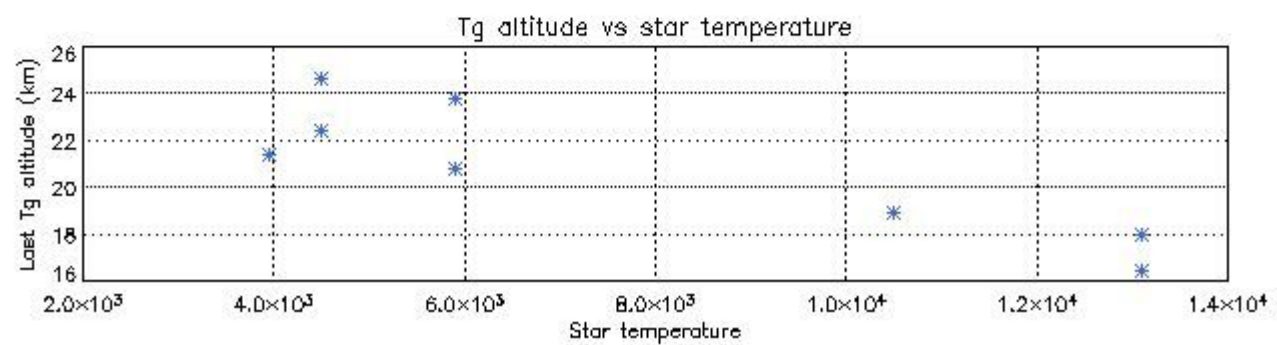
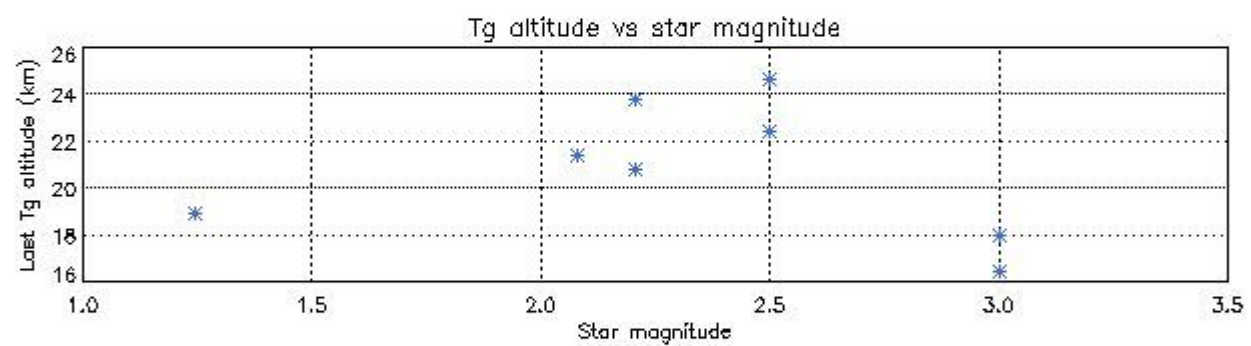
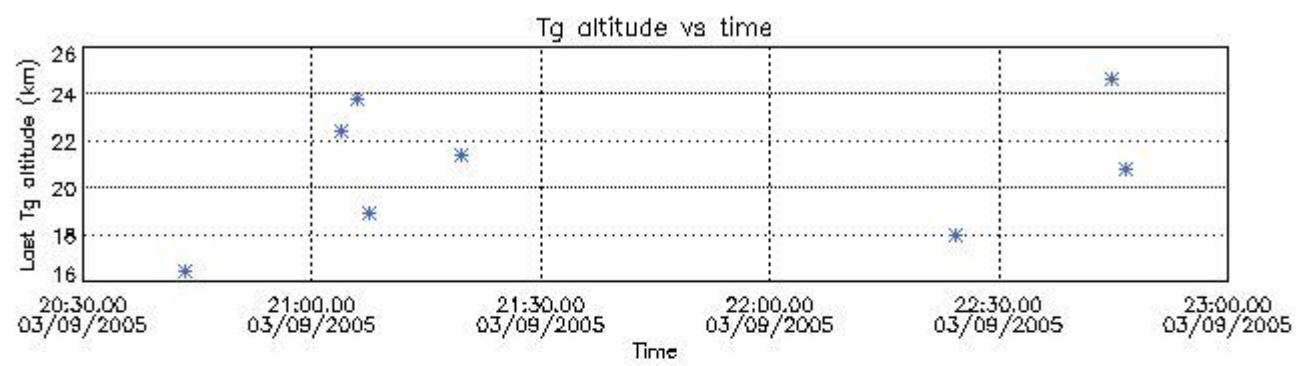
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



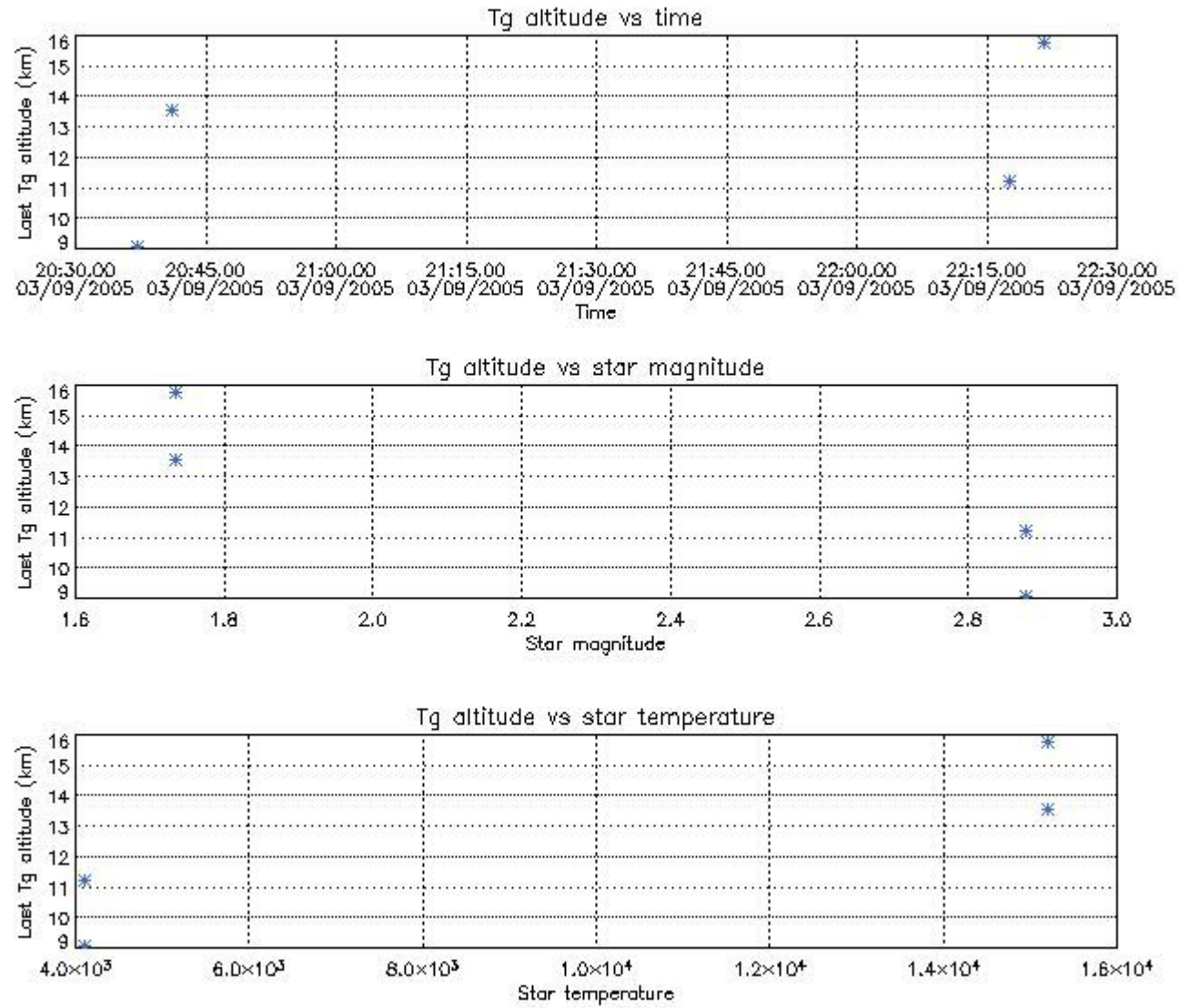
6.3 Plot for BRIGHT limb products

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

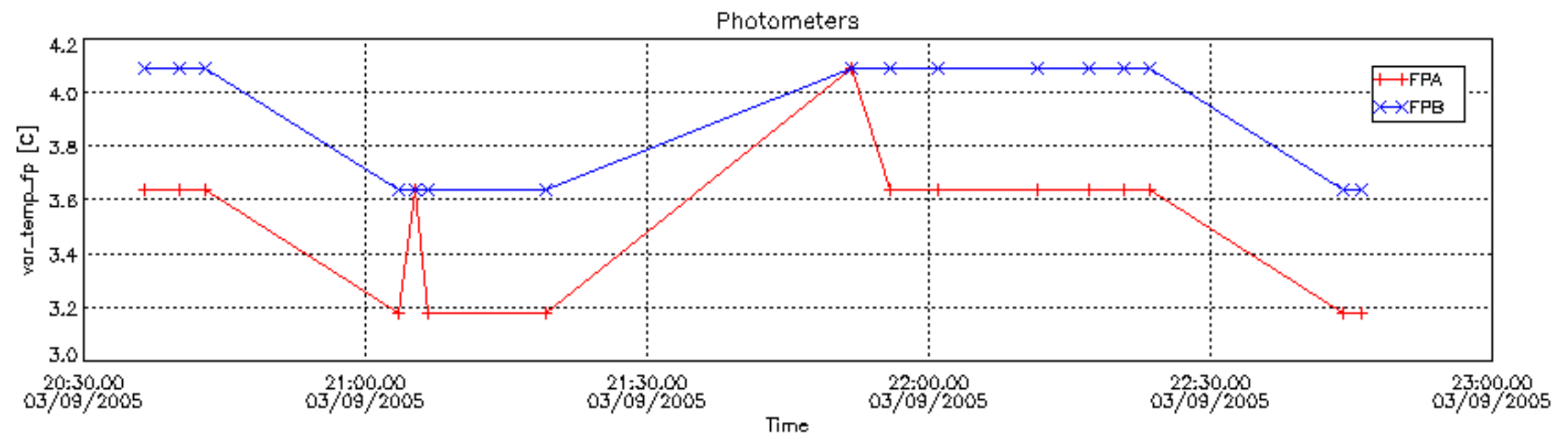
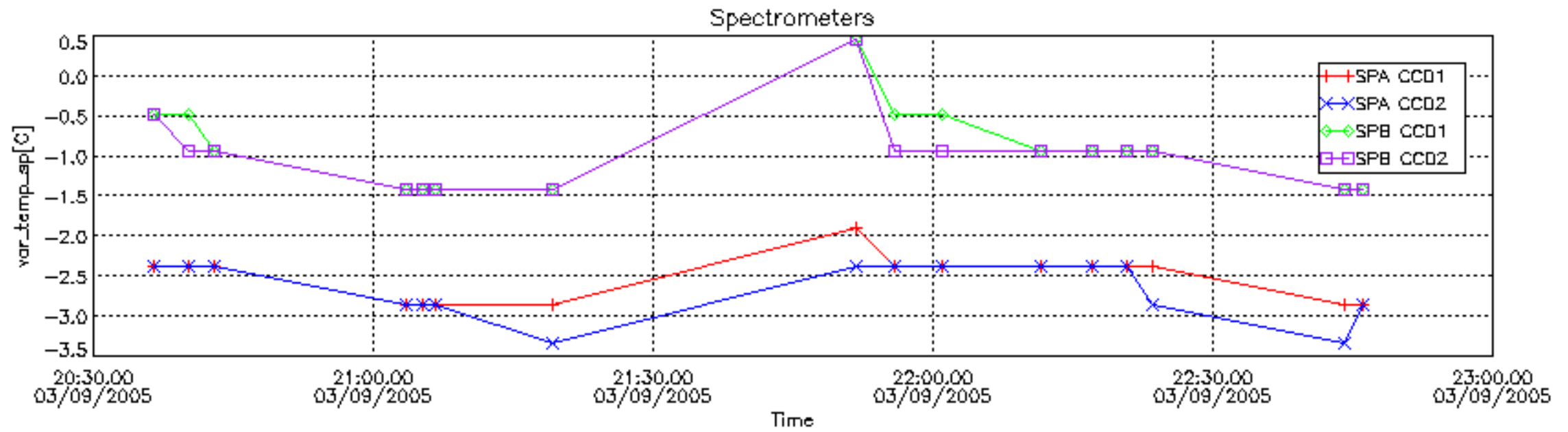
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

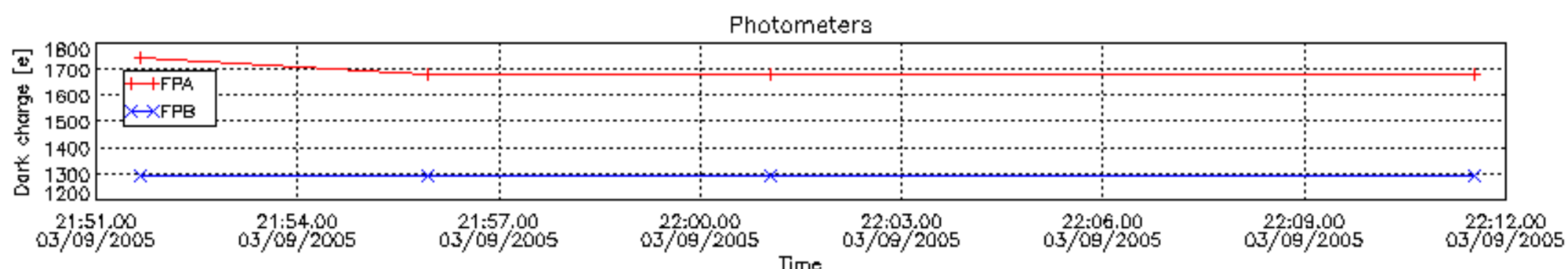
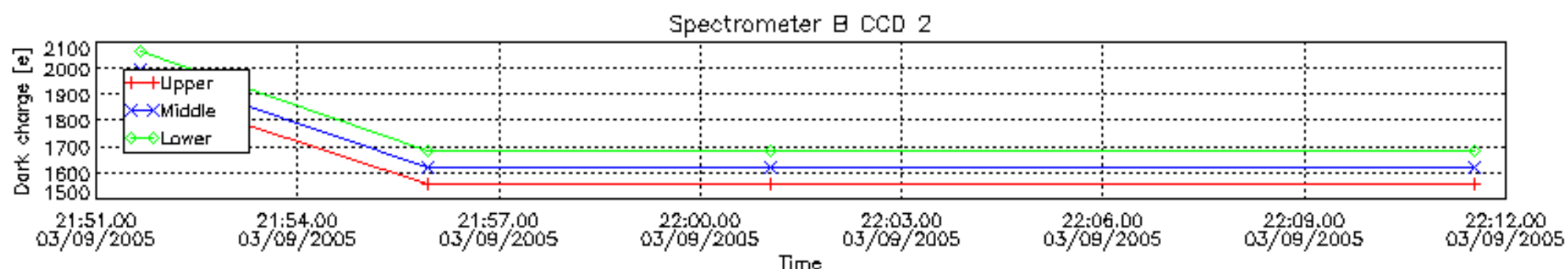
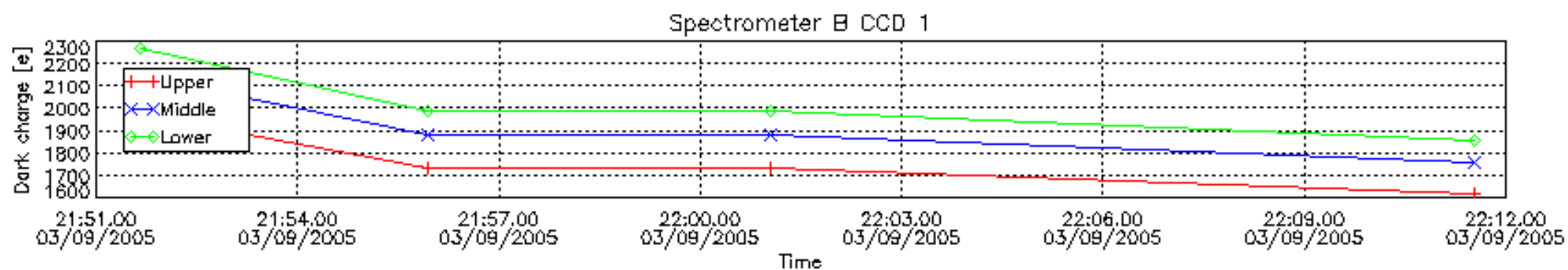
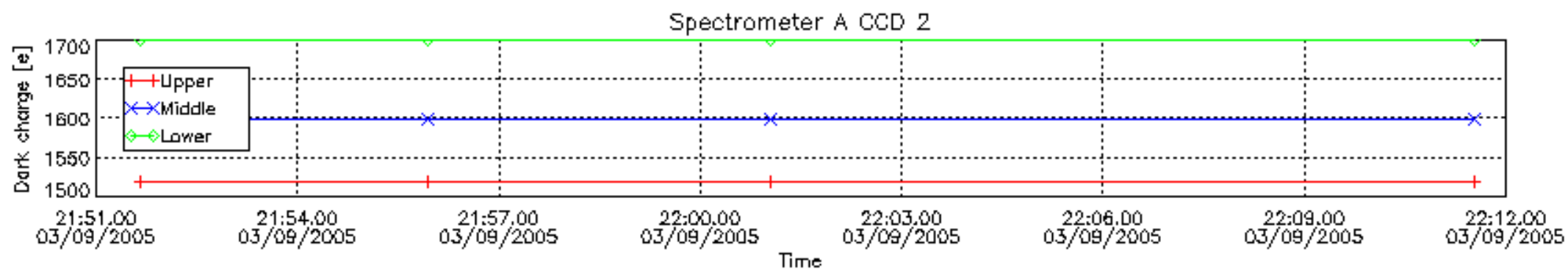
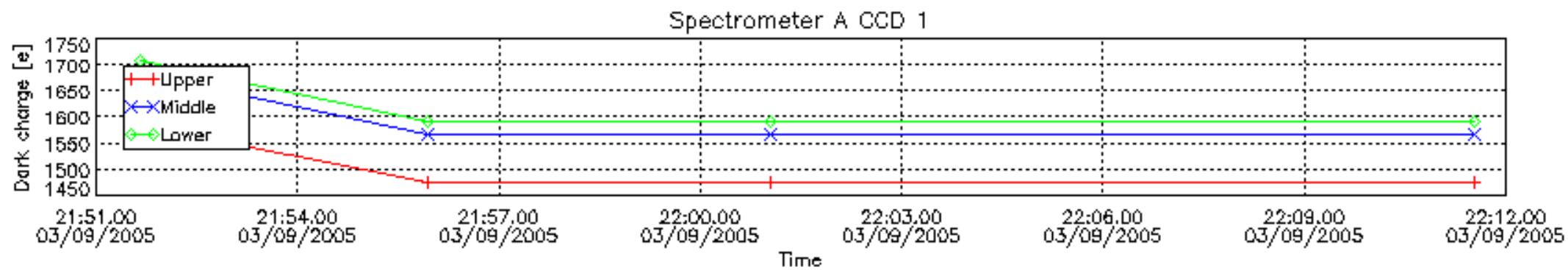
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1459.2	1445.1	1459.4	1445.3
St. deviation:	6.1821	6.8221	6.8097	7.6887
Maximum:	1488.0	1471.0	1512.0	1485.0
Minimum:	1440.0	1422.0	1441.0	1423.0
Number of data:	3350.0	3350.0	6500.0	6500.0

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

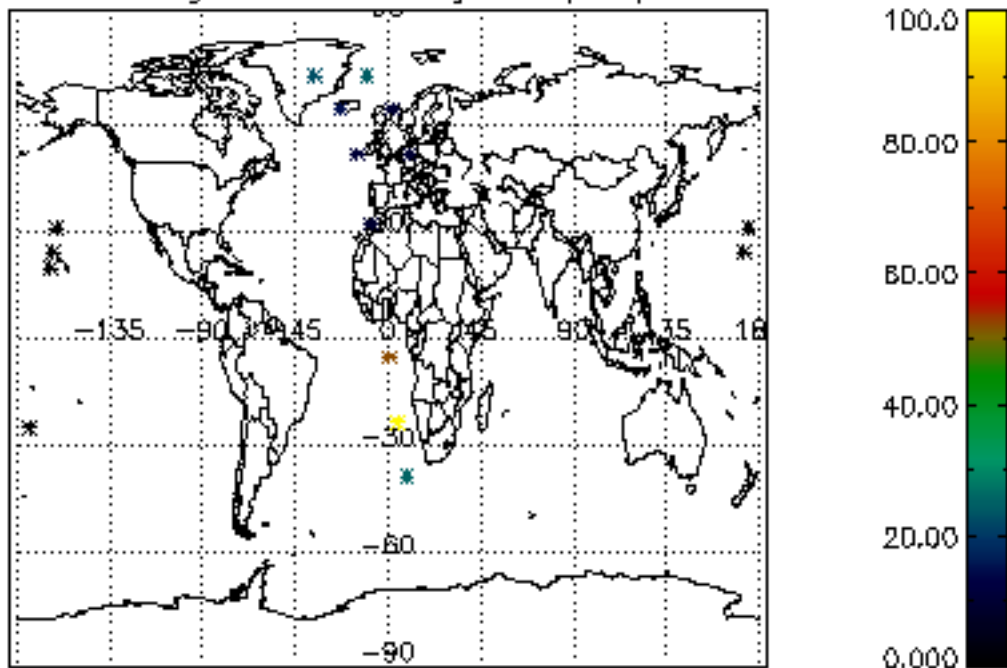
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	03-SEP-2005 20:36:30
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050902_124352_20050831_000000_20100101_000000	1	03-SEP-2005 20:36:30
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	03-SEP-2005 20:36:30
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-SEP-2005 20:36:30
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	03-SEP-2005 20:36:30
ECMWF_FILE	AUX_ECF_AXNECM20050903_060542_20050903_150000_20050904_030000	1	03-SEP-2005 20:36:30
ECMWF_FILE	AUX_ECF_AXNECM20050903_060601_20050903_210000_20050904_090000	8	03-SEP-2005 21:51:40
ECMWF_FILE	AUX_ECA_AXNECM20050904_070540_20050903_210000_20050904_090000	16	03-SEP-2005 22:45:59
OPTIONAL_ECMWF_FILE	NOT USED	1	03-SEP-2005 20:36:30
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050903_000538_20050902_191257_20050912_203909	1	03-SEP-2005 20:36:30
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050903_233536_20050903_184120_20050913_200732	8	03-SEP-2005 21:51:40

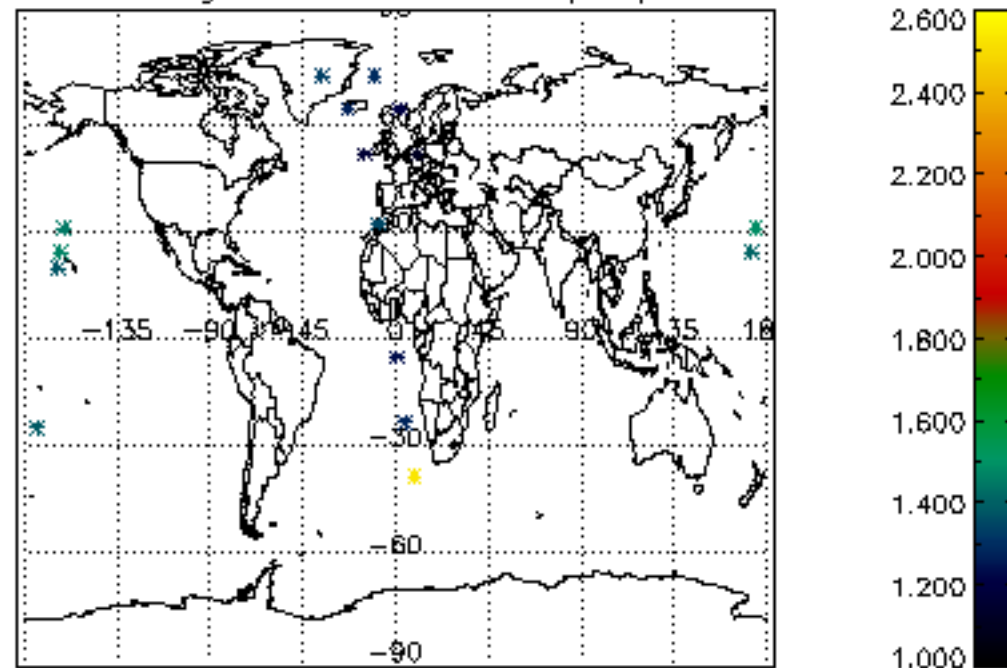




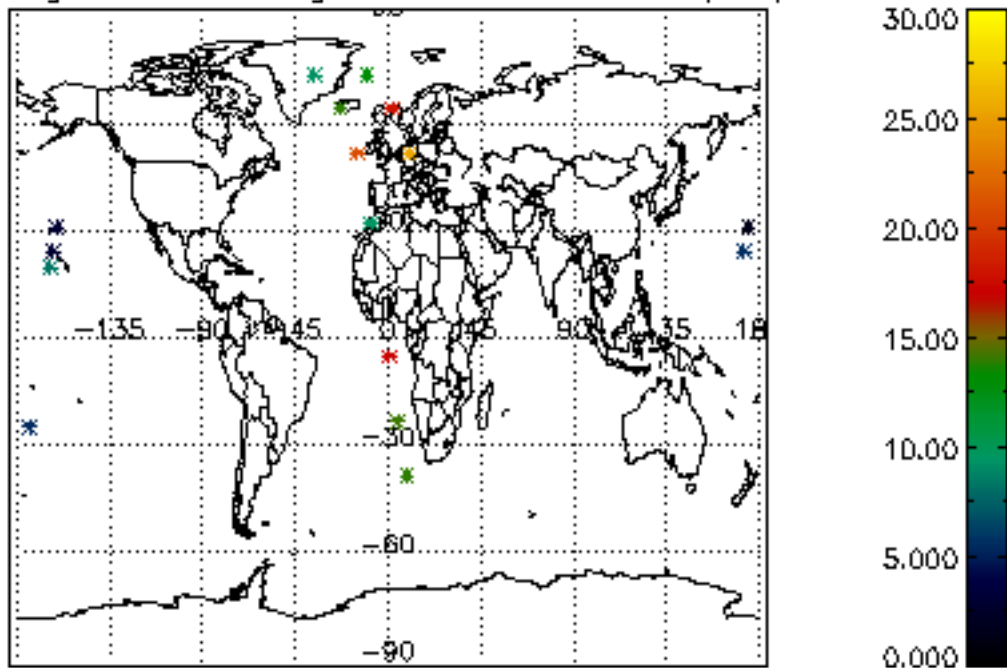
Percentage of cosmic ray hits per profile



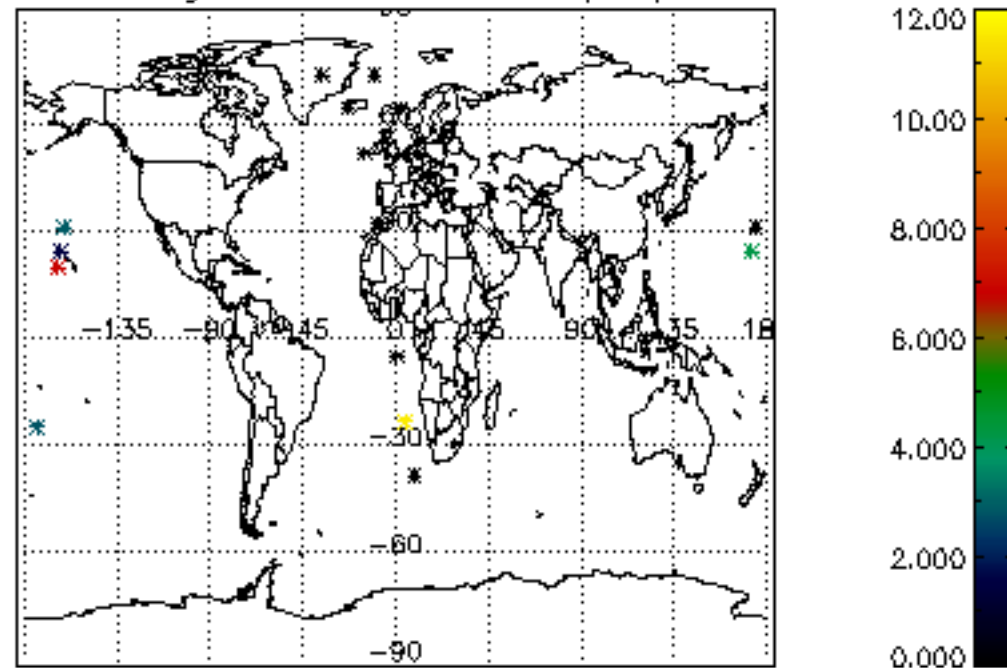
Percentage of datation errors per profile



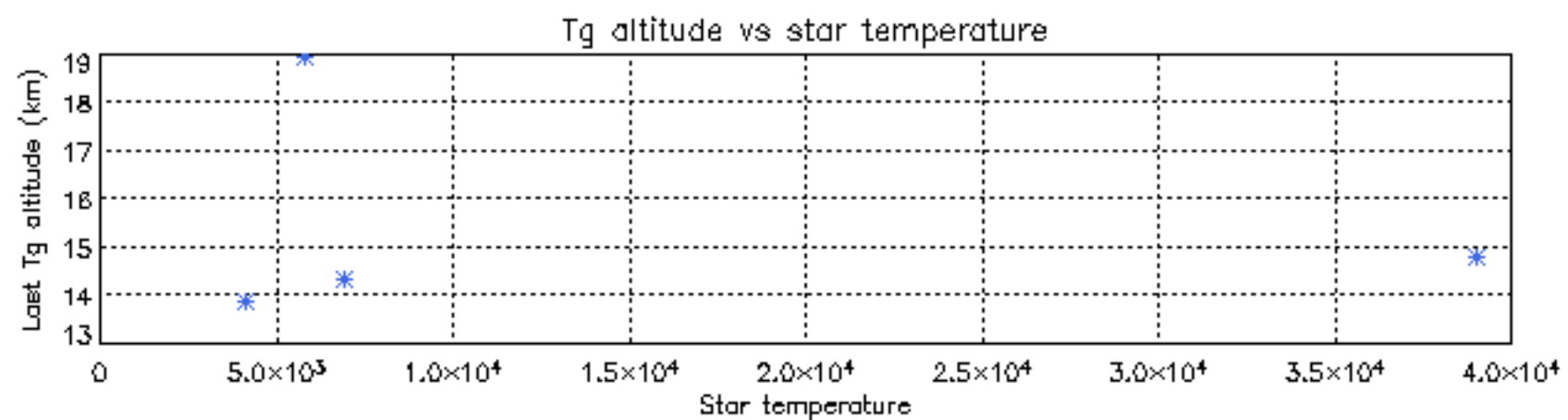
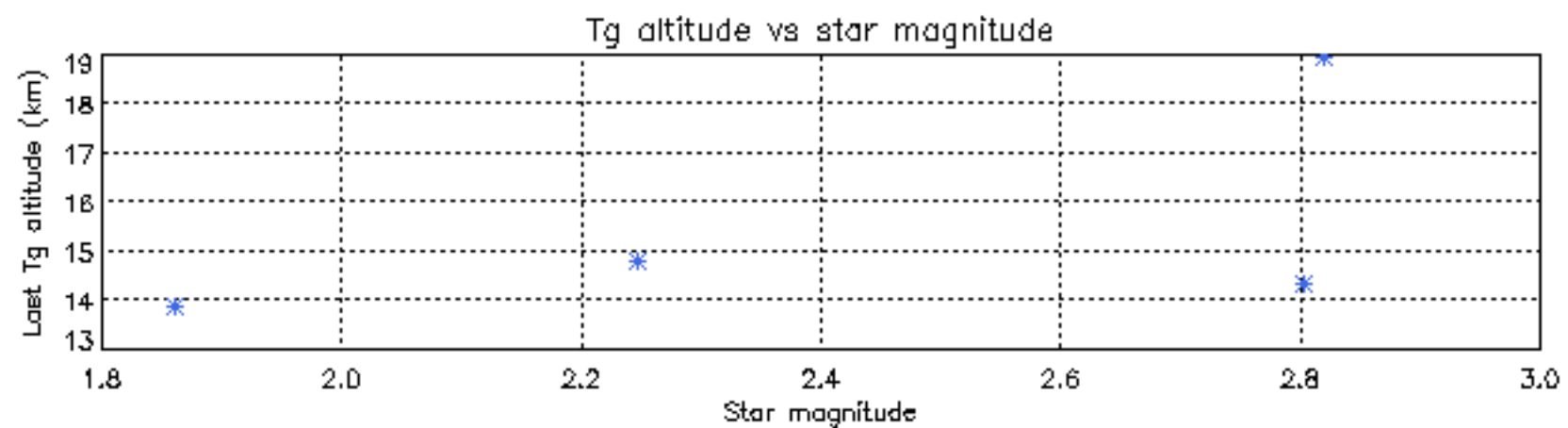
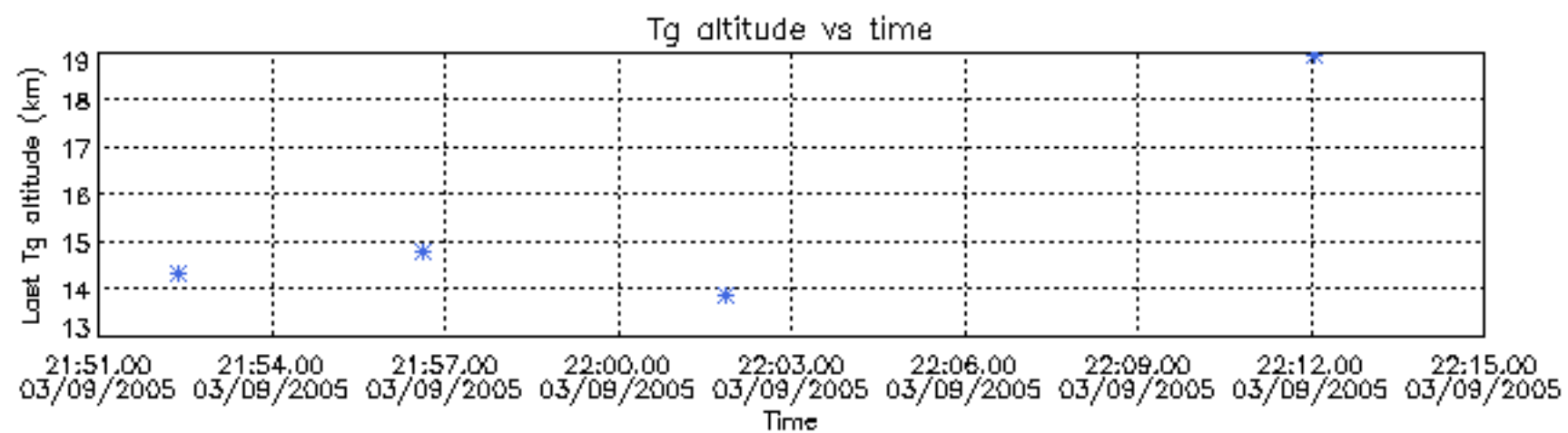
Percentage of star falling outside central band per profile



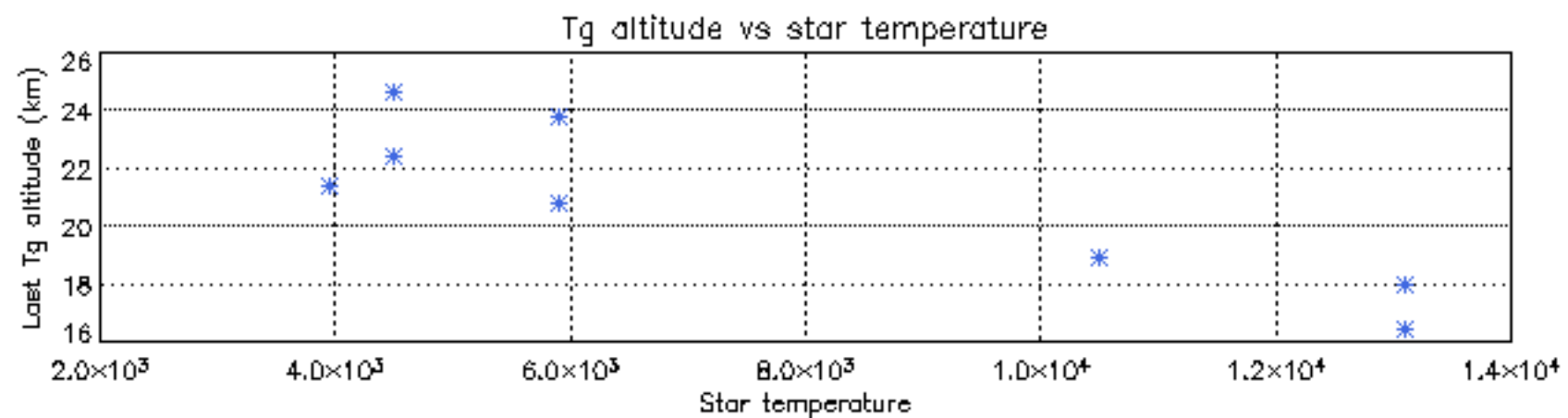
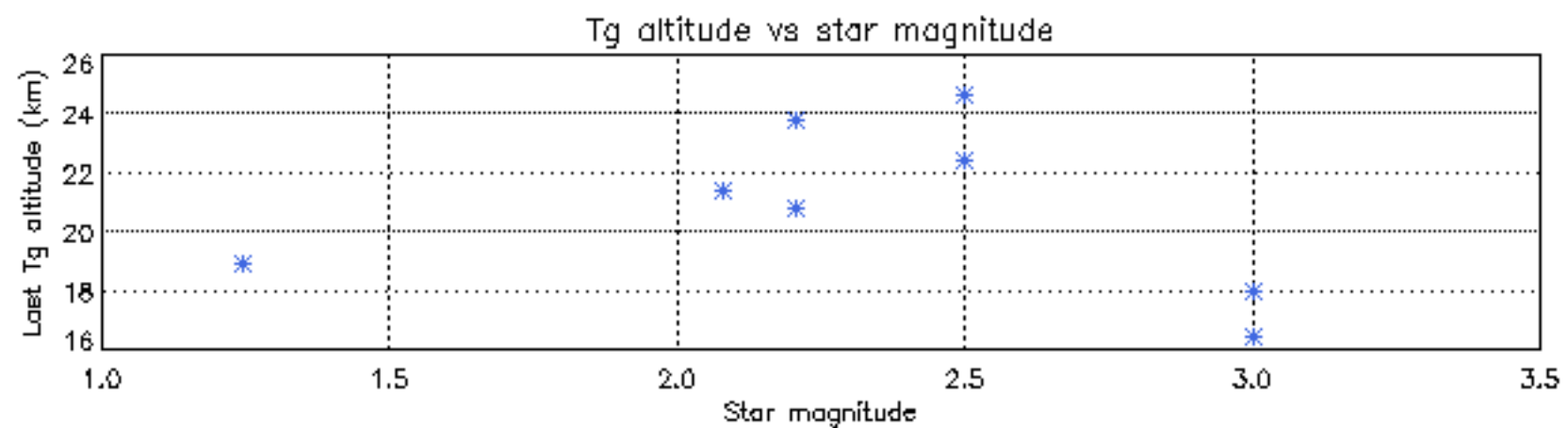
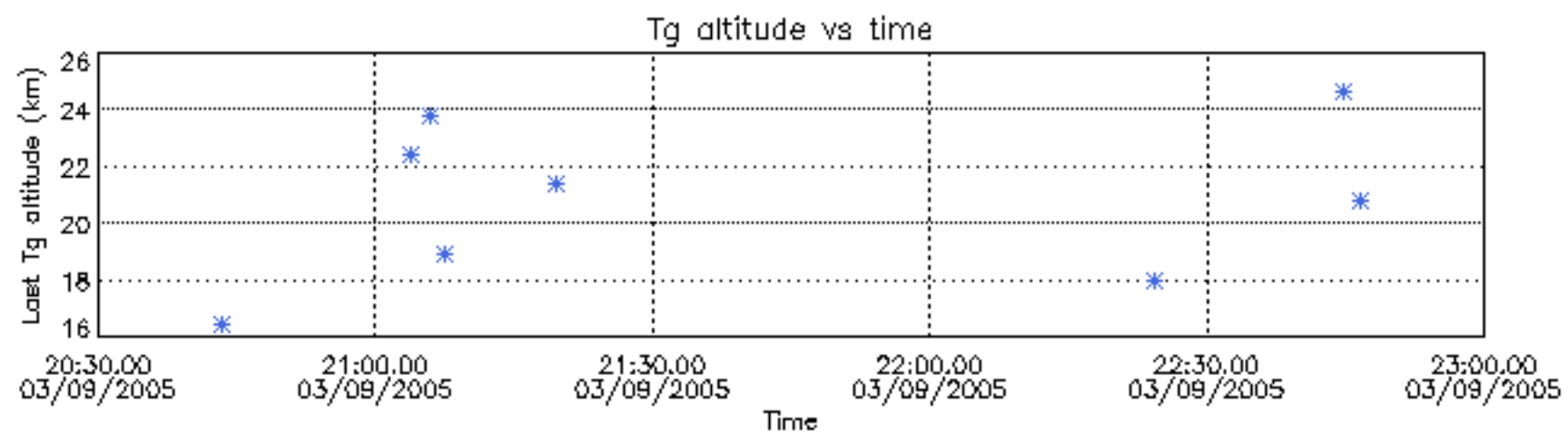
Percentage of saturation errors per profile



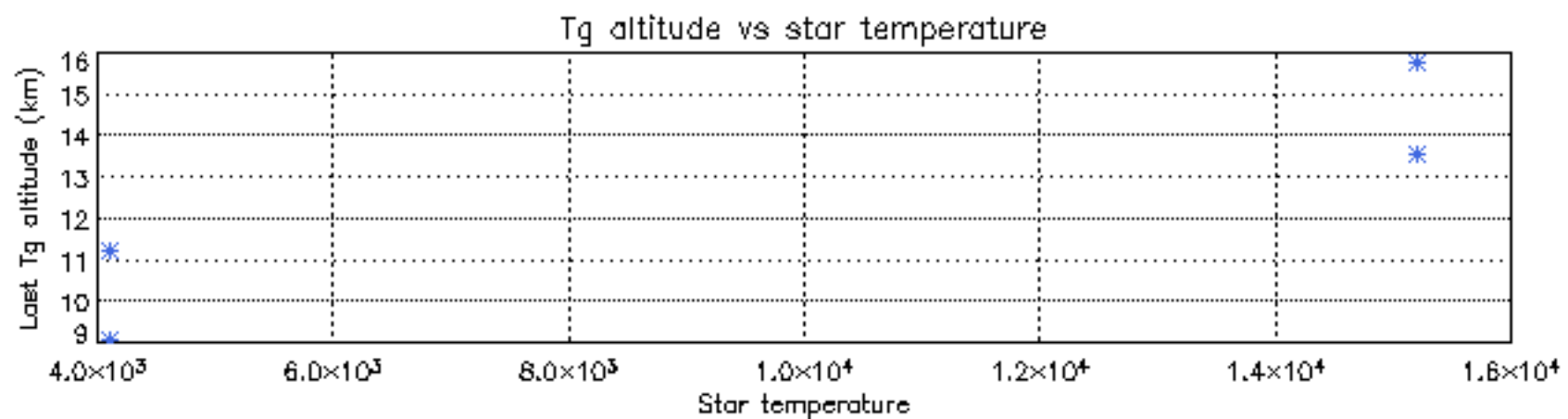
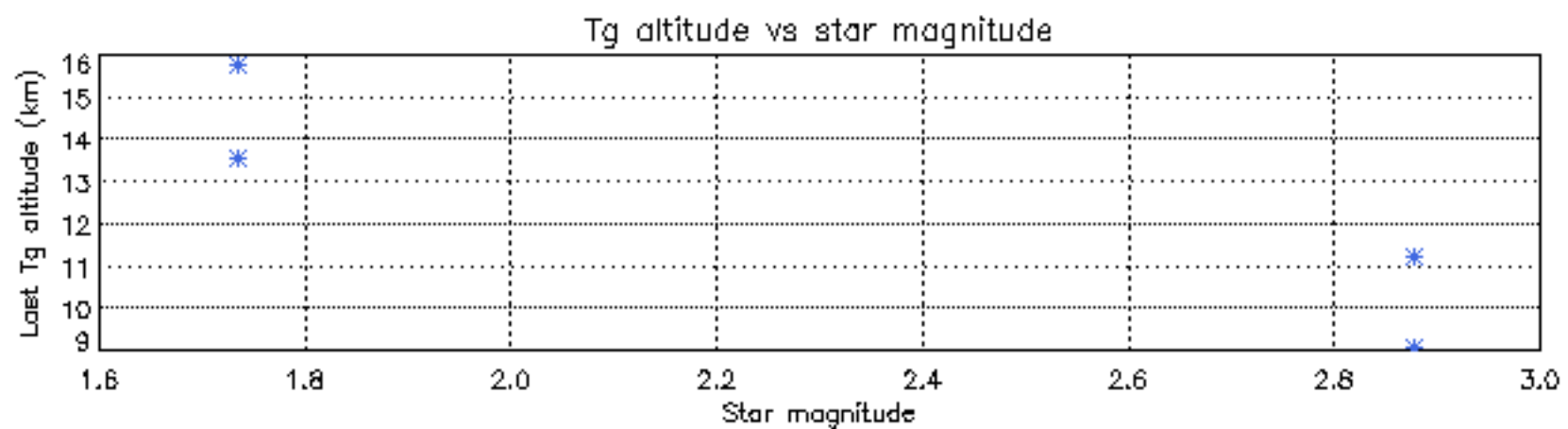
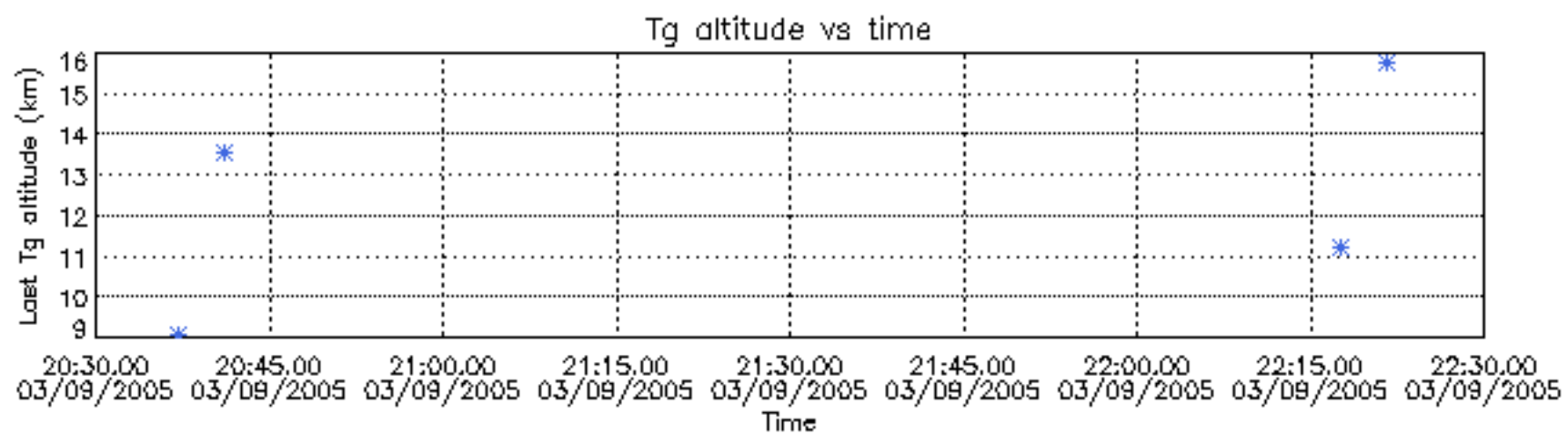
Tangent altitude at which the star is lost



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
6; 532.0; 01-SEP-2005 06:28:39; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;18325
7; 866.3; 01-SEP-2005 06:34:13; Dark ; 47.0; 148; Alp Tuc ; 2.88; 4100;occ; 94; 0;18325
8; 1085.9; 01-SEP-2005 06:37:53; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;18325
9; 1255.8; 01-SEP-2005 06:40:43; Dark ; 40.0; 172; Gam Gru ; 3.00; 13100;occ; 80; 0;18325
10; 2601.3; 01-SEP-2005 07:03:08; Bright; 35.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 71; 0;18325
11; 2706.4; 01-SEP-2005 07:04:53; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71; 0;18325
12; 3422.5; 01-SEP-2005 07:16:50; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;18325
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20050901_010657_000041172040_00231_18321_0359.N1
1; -662.0; 01-SEP-2005 01:06:57; Dark ; 40.0; 132; 15Rho Pup ; 2.80; 6900;occ; 80; 1;18321
2; -404.4; 01-SEP-2005 01:11:15; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;18321
3; -277.5; 01-SEP-2005 01:13:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;18321
4; -93.2; 01-SEP-2005 01:16:26; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;18321
5; 531.3; 01-SEP-2005 01:26:50; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;18322
6; 865.6; 01-SEP-2005 01:32:25; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;18322
7; 1085.1; 01-SEP-2005 01:36:04; Dark ; 37.0; 31; Alp Gru ; 1.73; 15200;occ; 74; 0;18322
8; 1255.2; 01-SEP-2005 01:38:54; Dark ; 38.5; 172; Gam Gru ; 3.00; 13100;occ; 77; 0;18322
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