

# GOMOS Daily Report 10-SEP-2005

## Level 0 and Level 1 products

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## [Level 2 products](#)

### 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	12SEP2005 05:01:34

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (10SEP2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (11SEP2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	42
Nb of prods with errors	0

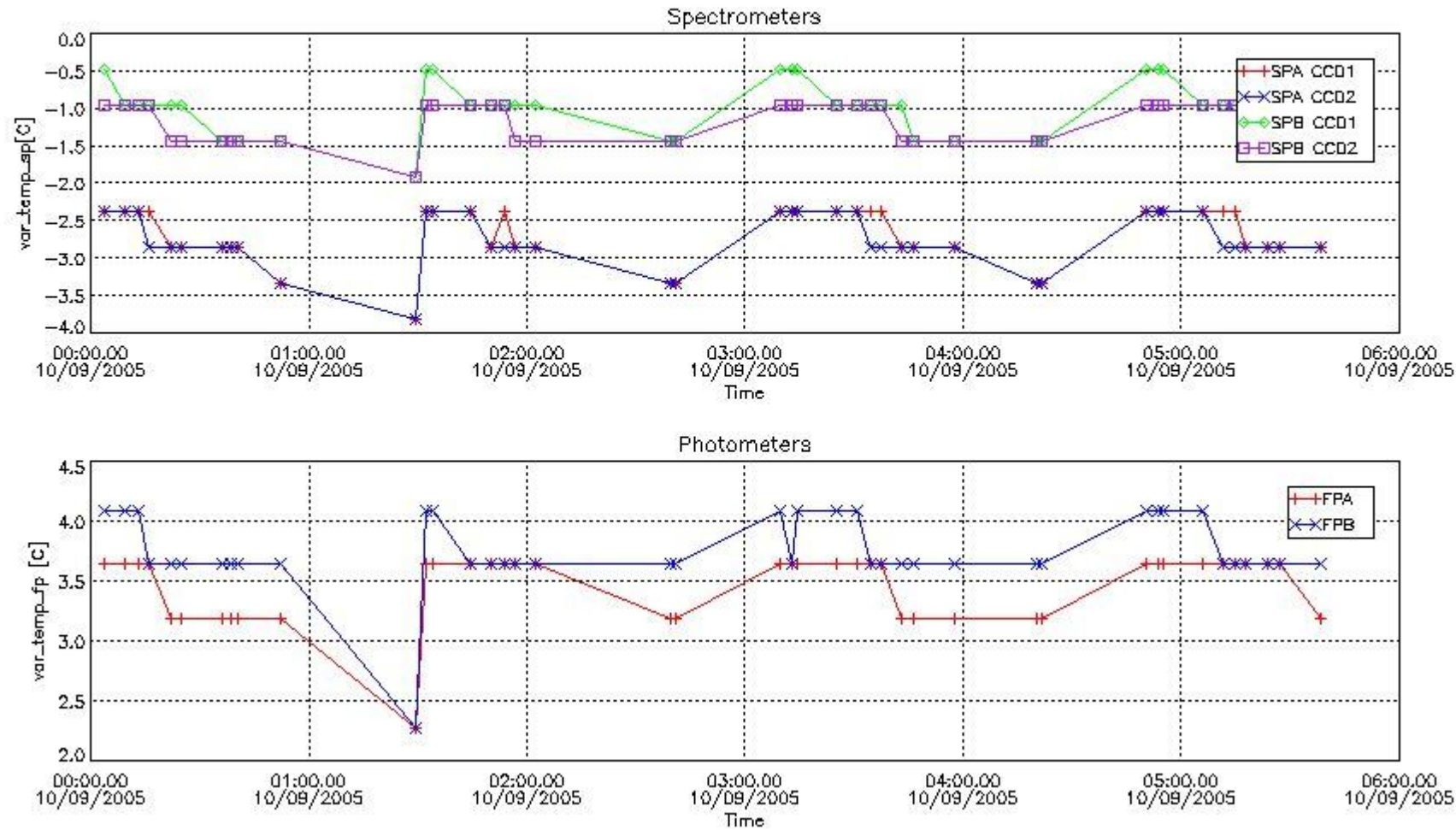
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20050910_000354_000000362040_00360_18450_0003.N1	10-SEP-2005 00:03:54	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	18450	No
2	GOM_TRA_1PNPDE20050910_000929_000000402040_00360_18450_0004.N1	10-SEP-2005 00:09:29	Dark	40.000	148	Alp Tuc	2.8780	4100.0	80	18450	No
3	GOM_TRA_1PNPDE20050910_001311_000000402040_00360_18450_0005.N1	10-SEP-2005 00:13:11	Twilight	40.000	31	Alp Gru	1.7340	15200.	80	18450	No
4	GOM_TRA_1PNPDE20050910_001558_000000392040_00360_18450_0006.N1	10-SEP-2005 00:15:58	Bright	38.500	172	Gam Gru	3.0030	13100.	77	18450	No
5	GOM_TRA_1PNPDE20050910_002156_000000402040_00360_18450_0007.N1	10-SEP-2005 00:21:56	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	18450	No
6	GOM_TRA_1PNPDE20050910_002501_000000372040_00360_18450_0008.N1	10-SEP-2005 00:25:01	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	18450	No
7	GOM_TRA_1PNPDE20050910_003622_000000372040_00360_18450_0009.N1	10-SEP-2005 00:36:22	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	18450	No
8	GOM_TRA_1PNPDE20050910_003823_000000372040_00360_18450_0010.N1	10-SEP-2005 00:38:23	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	18450	No
9	GOM_TRA_1PNPDE20050910_004022_000000352040_00360_18450_0011.N1	10-SEP-2005 00:40:22	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	18450	No
10	GOM_TRA_1PNPDE20050910_005220_000000332040_00360_18450_0012.N1	10-SEP-2005 00:52:20	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	18450	No
11	GOM_TRA_1PNPDE20050910_012911_000000432040_00360_18450_0000.N1	10-SEP-2005 01:29:11	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	18450	No
12	GOM_TRA_1PNPDE20050910_013225_000000382040_00360_18450_0001.N1	10-SEP-2005 01:32:25	Dark	37.500	46	Del Vel	1.9540	10600.	75	18450	No
13	GOM_TRA_1PNPDE20050910_013354_000000422040_00360_18450_0002.N1	10-SEP-2005 01:33:54	Dark	42.000	41	Eps Car	1.8600	4100.0	84	18450	No
14	GOM_TRA_1PNPDE20050910_014430_000000372040_00361_18451_0003.N1	10-SEP-2005 01:44:30	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18451	No
15	GOM_TRA_1PNPDE20050910_015005_000000382040_00361_18451_0004.N1	10-SEP-2005 01:50:05	Dark	37.500	148	Alp Tuc	2.8780	4100.0	75	18451	No
16	GOM_TRA_1PNPDE20050910_015347_000000402040_00361_18451_0005.N1	10-SEP-2005 01:53:47	Twilight	39.500	31	Alp Gru	1.7340	15200.	79	18451	No
17	GOM_TRA_1PNPDE20050910_015634_000000392040_00361_18451_0006.N1	10-SEP-2005 01:56:34	Bright	38.500	172	Gam Gru	3.0030	13100.	77	18451	No
18	GOM_TRA_1PNPDE20050910_020232_000000402040_00361_18451_0007.N1	10-SEP-2005 02:02:32	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	18451	No
19	GOM_TRA_1PNPDE20050910_023927_000000352040_00361_18451_0000.N1	10-SEP-2005 02:39:27	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	18451	No
20	GOM_TRA_1PNPDE20050910_024052_000000522040_00361_18451_0001.N1	10-SEP-2005 02:40:52	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	18451	No
21	GOM_TRA_1PNPDE20050910_030947_000000462040_00361_18451_0002.N1	10-SEP-2005 03:09:47	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	18451	No
22	GOM_TRA_1PNPDE20050910_031301_000000382040_00361_18451_0003.N1	10-SEP-2005 03:13:01	Dark	38.000	46	Del Vel	1.9540	10600.	76	18451	No
23	GOM_TRA_1PNPDE20050910_031430_000000482040_00361_18451_0004.N1	10-SEP-2005 03:14:30	Dark	47.500	41	Eps Car	1.8600	4100.0	95	18451	No
24	GOM_TRA_1PNPDE20050910_032507_000000392040_00362_18452_0005.N1	10-SEP-2005 03:25:07	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	18452	No
25	GOM_TRA_1PNPDE20050910_033041_000000392040_00362_18452_0006.N1	10-SEP-2005 03:30:41	Dark	38.500	148	Alp Tuc	2.8780	4100.0	77	18452	No
26	GOM_TRA_1PNPDE20050910_033423_000000372040_00362_18452_0007.N1	10-SEP-2005 03:34:23	Twilight	37.000	31	Alp Gru	1.7340	15200.	74	18452	No
27	GOM_TRA_1PNPDE20050910_033711_000000362040_00362_18452_0008.N1	10-SEP-2005 03:37:11	Bright	36.000	172	Gam Gru	3.0030	13100.	72	18452	No
28	GOM_TRA_1PNPDE20050910_034308_000000522040_00362_18452_0009.N1	10-SEP-2005 03:43:08	Bright	52.000	142	49Del Cap	2.8500	8900.0	104	18452	No
29	GOM_TRA_1PNPDE20050910_034613_000000372040_00362_18452_0010.N1	10-SEP-2005 03:46:13	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	18452	No
30	GOM_TRA_1PNPDE20050910_035734_000000352040_00362_18452_0011.N1	10-SEP-2005 03:57:34	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	18452	No
31	GOM_TRA_1PNPDE20050910_042003_000000352040_00362_18452_0000.N1	10-SEP-2005 04:20:03	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	18452	No
32	GOM_TRA_1PNPDE20050910_042128_000000522040_00362_18452_0001.N1	10-SEP-2005 04:21:28	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	18452	No
33	GOM_TRA_1PNPDE20050910_045023_000000442040_00362_18452_0002.N1	10-SEP-2005 04:50:23	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	18452	No
34	GOM_TRA_1PNPDE20050910_045337_000000382040_00362_18452_0003.N1	10-SEP-2005 04:53:37	Dark	37.500	46	Del Vel	1.9540	10600.	75	18452	No
35	GOM_TRA_1PNPDE20050910_045506_000000432040_00362_18452_0004.N1	10-SEP-2005 04:55:06	Dark	43.000	41	Eps Car	1.8600	4100.0	86	18452	No
36	GOM_TRA_1PNPDE20050910_050543_000000372040_00363_18453_0005.N1	10-SEP-2005 05:05:43	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18453	No
37	GOM_TRA_1PNPDE20050910_051117_000000432040_00363_18453_0006.N1	10-SEP-2005 05:11:17	Dark	43.000	148	Alp Tuc	2.8780	4100.0	86	18453	No
38	GOM_TRA_1PNPDE20050910_051459_000000382040_00363_18453_0007.N1	10-SEP-2005 05:14:59	Twilight	37.500	31	Alp Gru	1.7340	15200.	75	18453	No
39	GOM_TRA_1PNPDE20050910_051747_000000362040_00363_18453_0008.N1	10-SEP-2005 05:17:47	Bright	36.000	172	Gam Gru	3.0030	13100.	72	18453	No
40	GOM_TRA_1PNPDE20050910_052344_000000392040_00363_18453_0009.N1	10-SEP-2005 05:23:44	Bright	39.000	142	49Del Cap	2.8500	8900.0	78	18453	No
41	GOM_TRA_1PNPDE20050910_052649_000000352040_00363_18453_0010.N1	10-SEP-2005 05:26:49	Bright	35.000	154	22Bet Aqr	2.8990	5700.0	70	18453	No
42	GOM_TRA_1PNPDE20050910_053810_000000352040_00363_18453_0011.N1	10-SEP-2005 05:38:10	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	18453	No

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



#### 4. Overview of dark signal processing per product

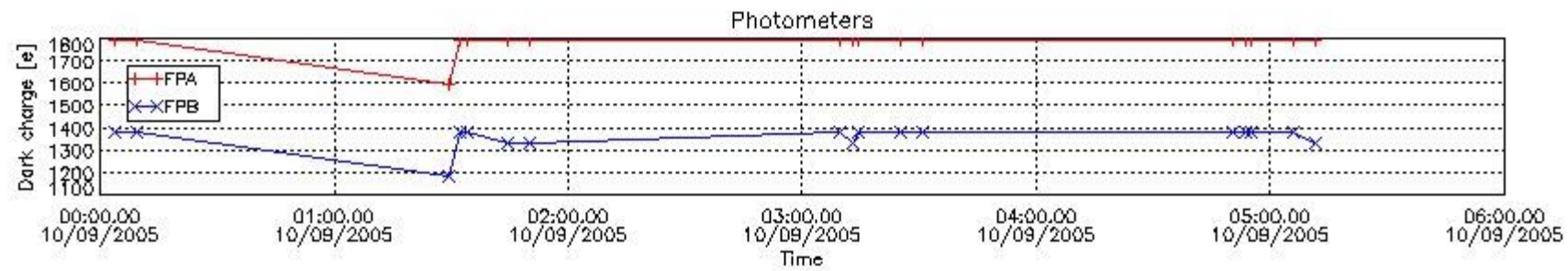
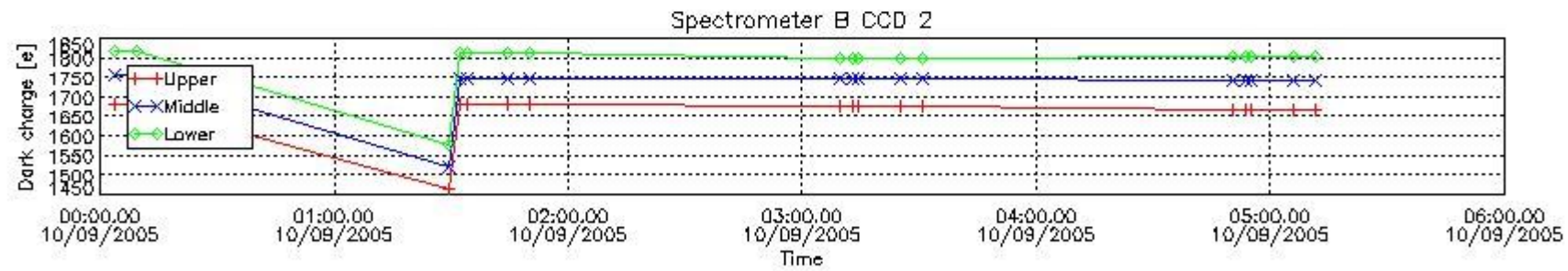
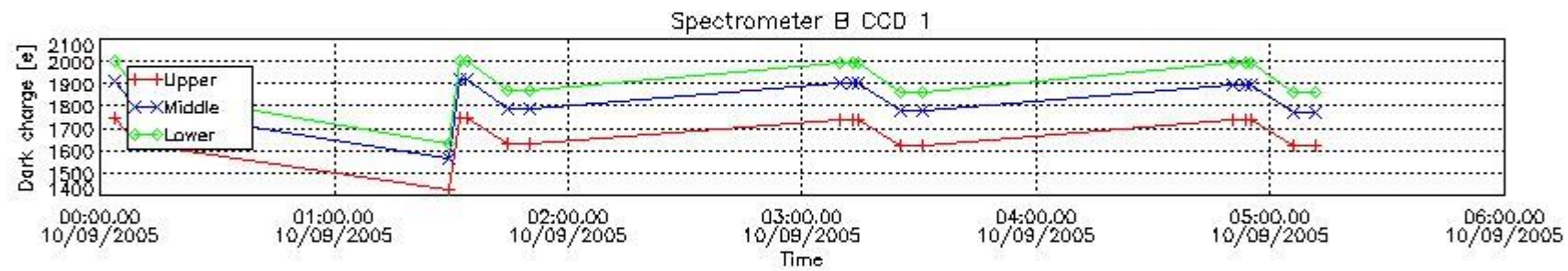
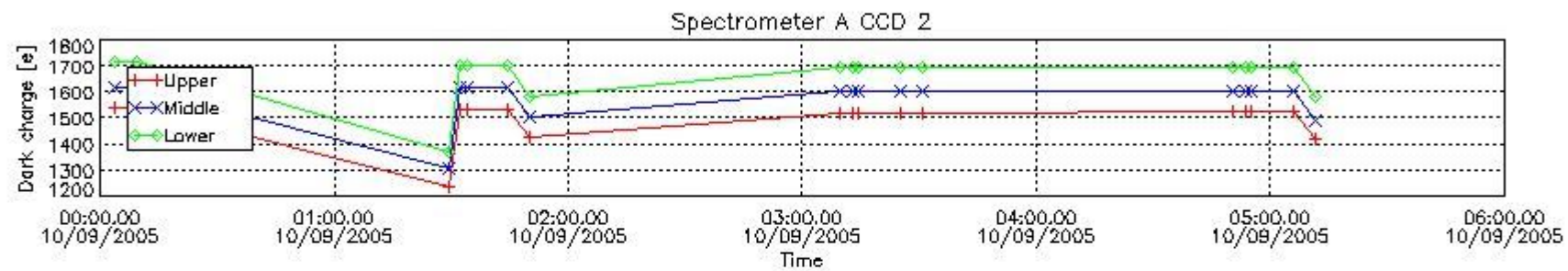
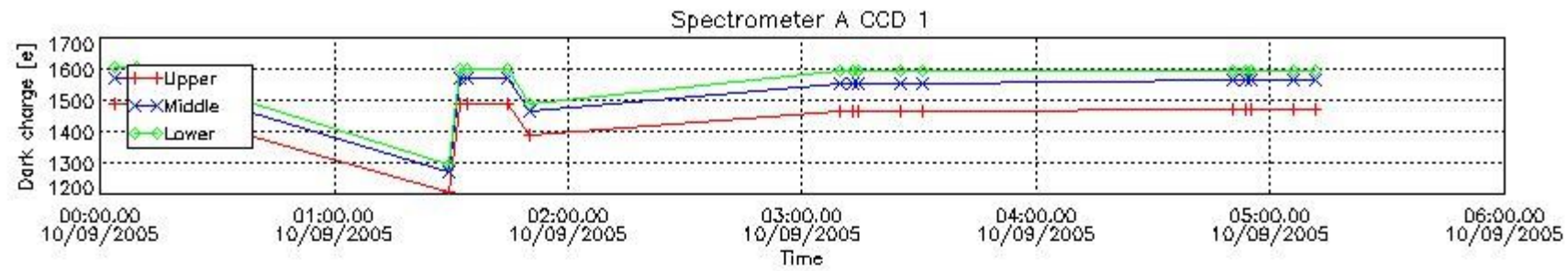
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





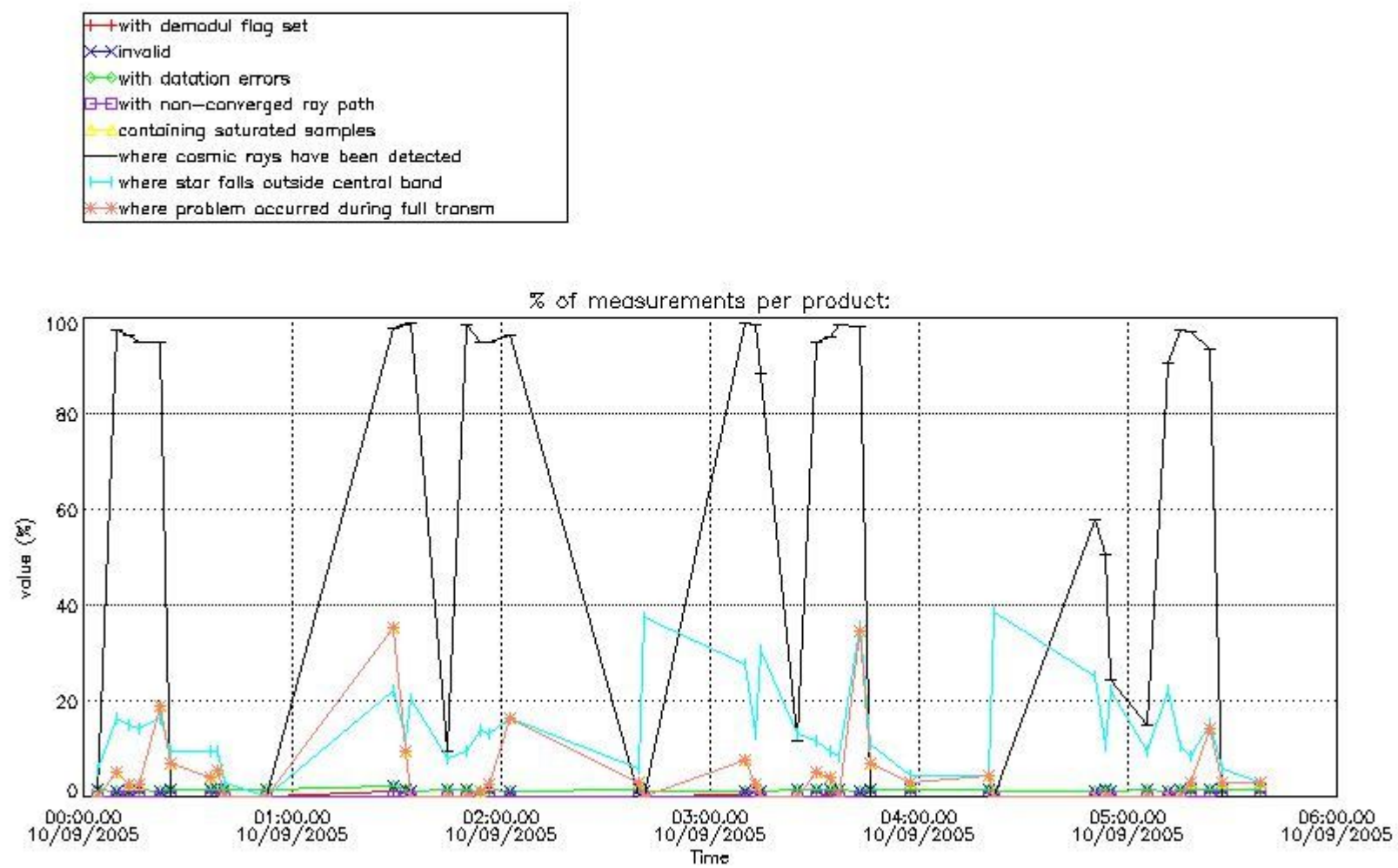
## 5. Demodulation flag and quality information monitoring

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:

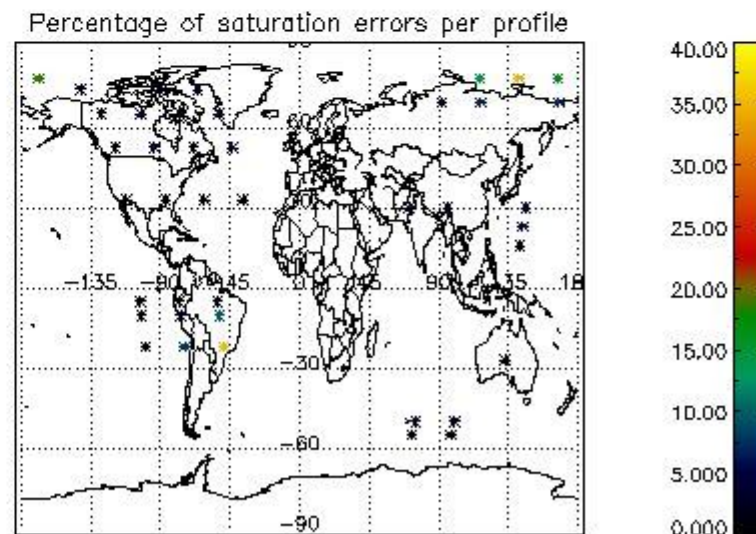
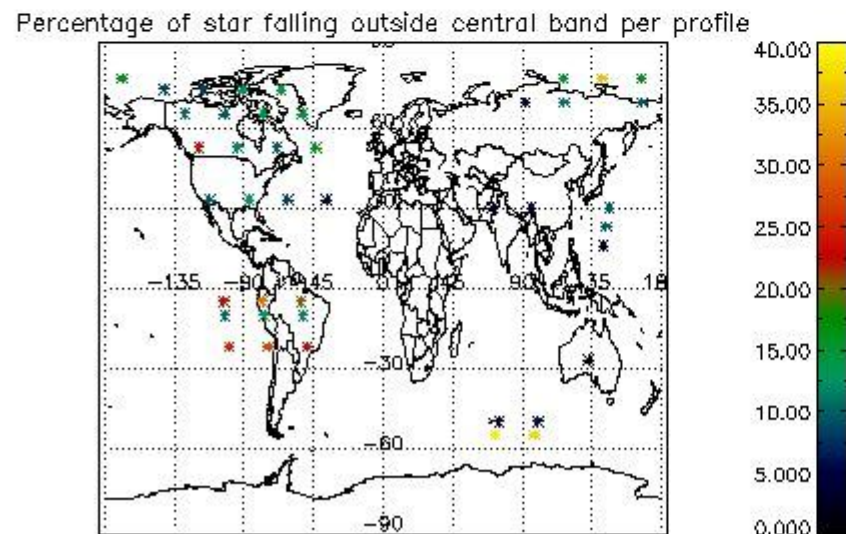
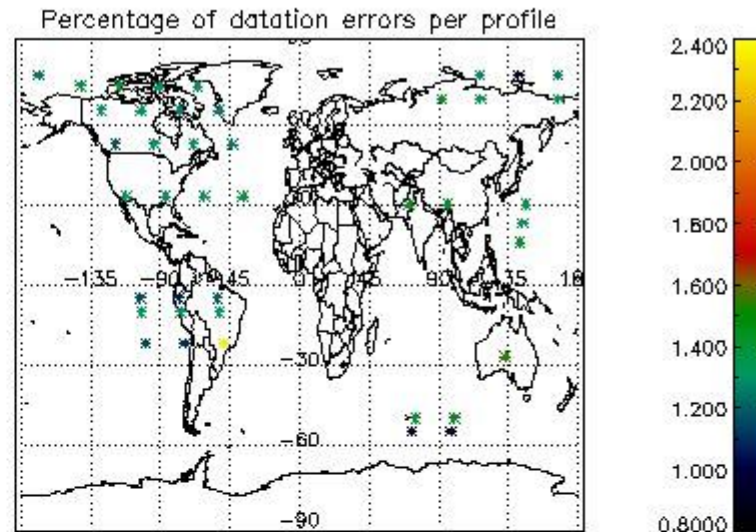
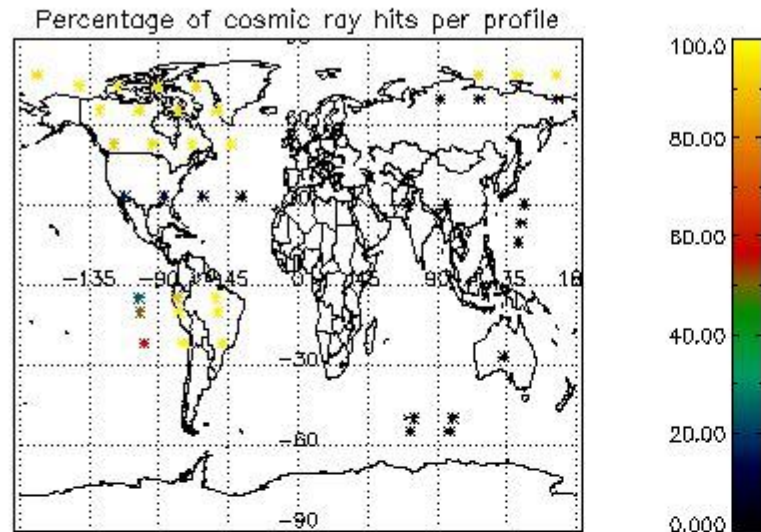
At least one measurement with demodulation flag set:	30.9524 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





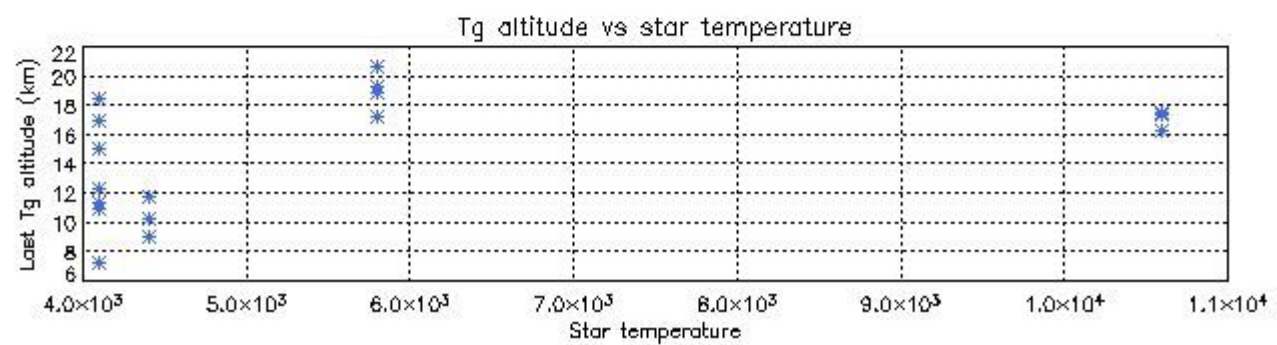
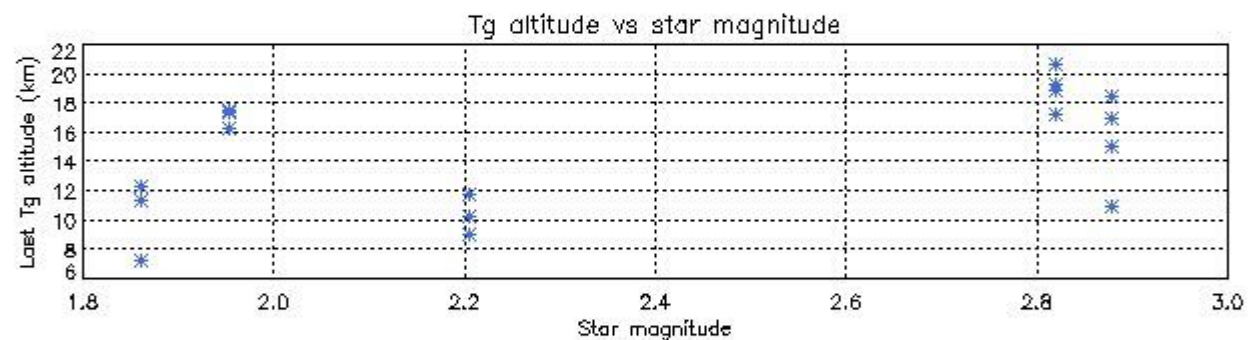
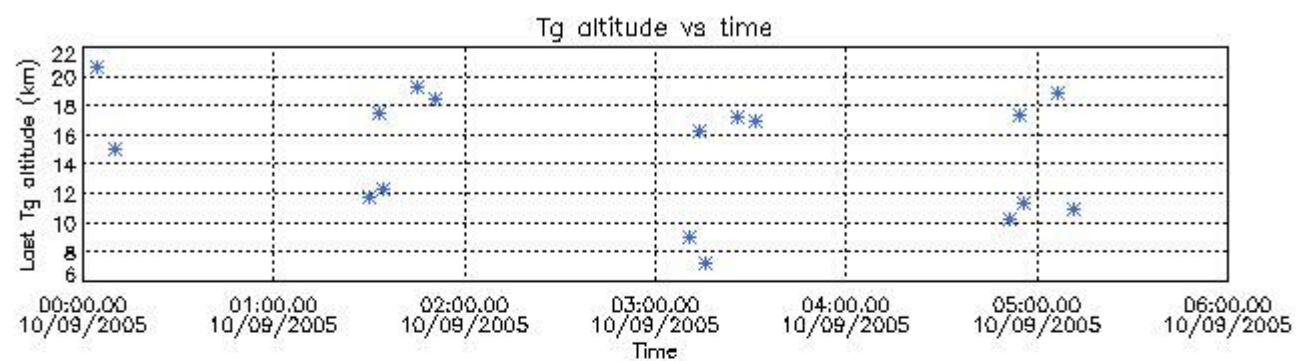
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.731	17.259	16.686
St. deviation:	4.0652	6.7245	1.9372
Maximum:	20.605	29.310	18.861
Minimum:	7.1977	3.8365	14.728
Number of data:	17.000	21.000	4.0000

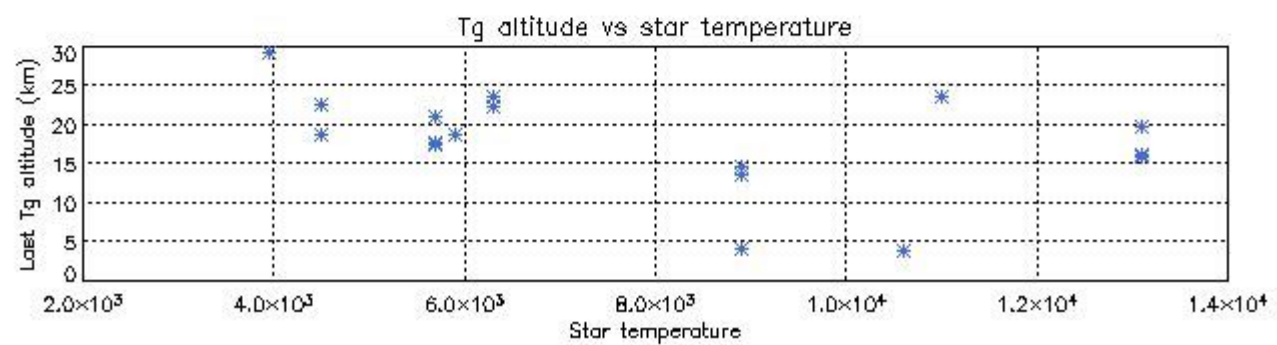
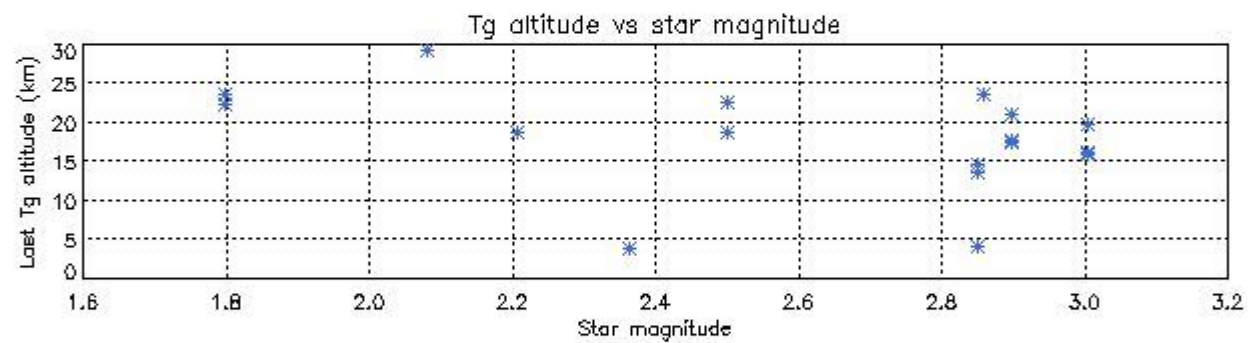
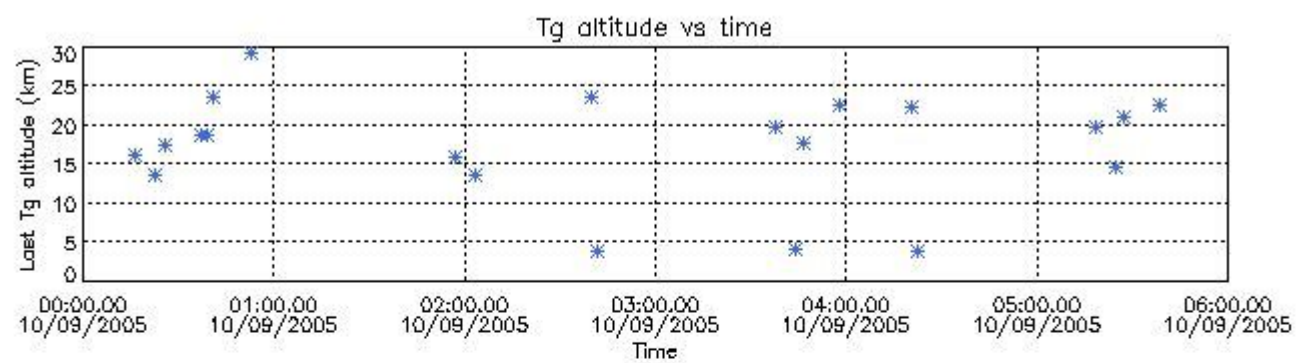
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

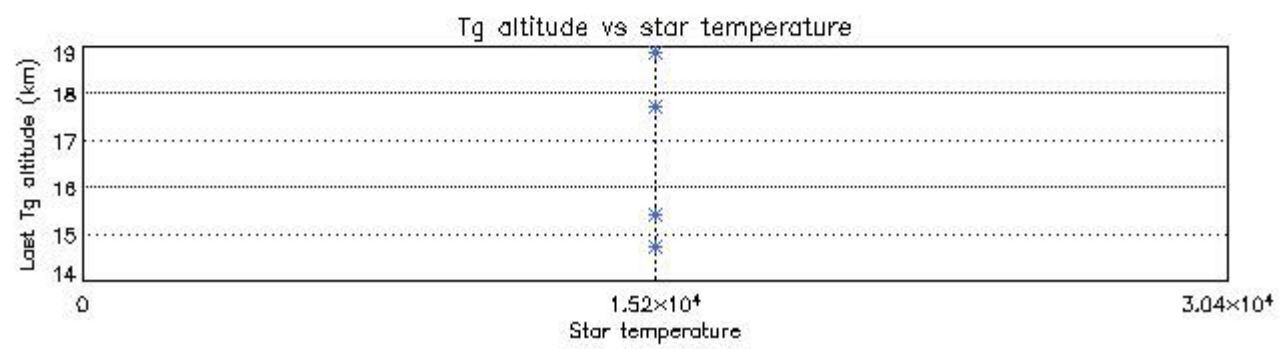
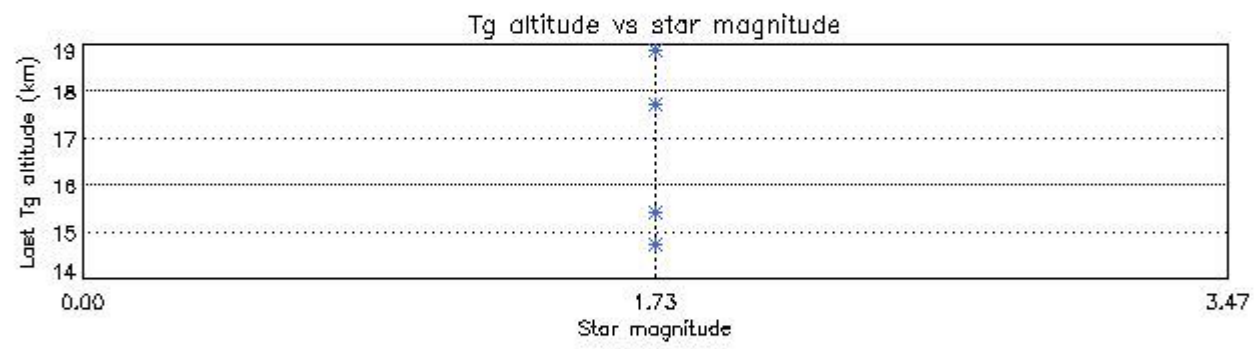
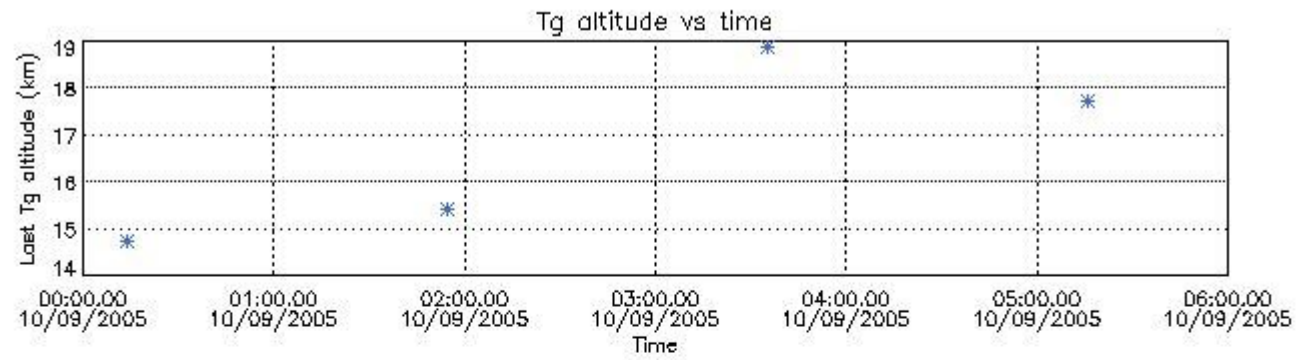
Tangent altitude at which the star is lost



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

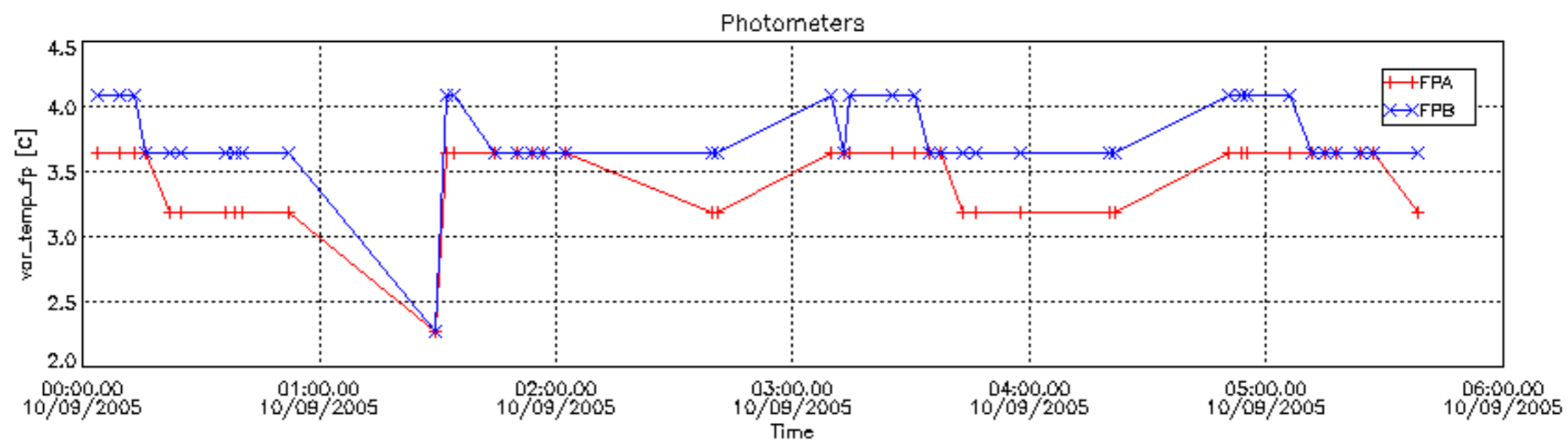
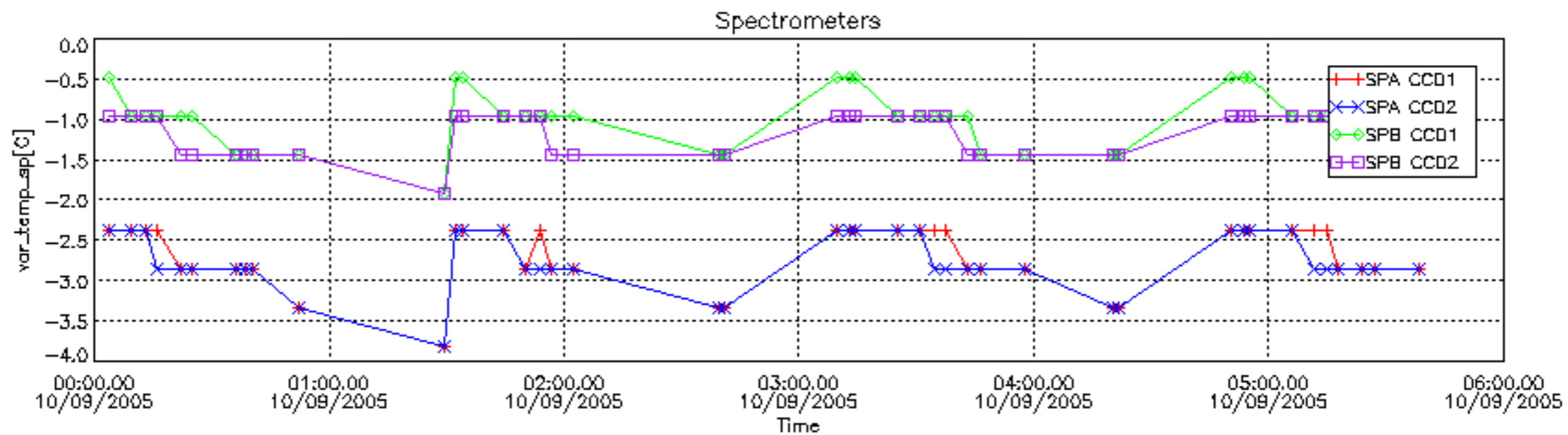
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

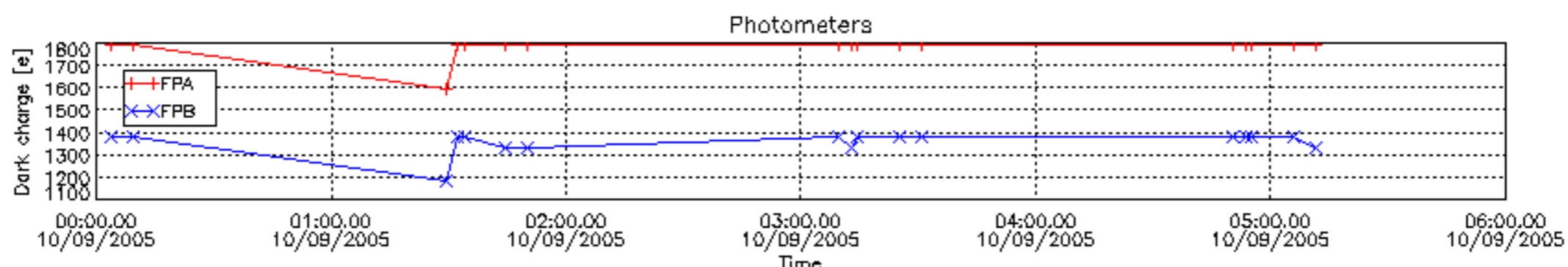
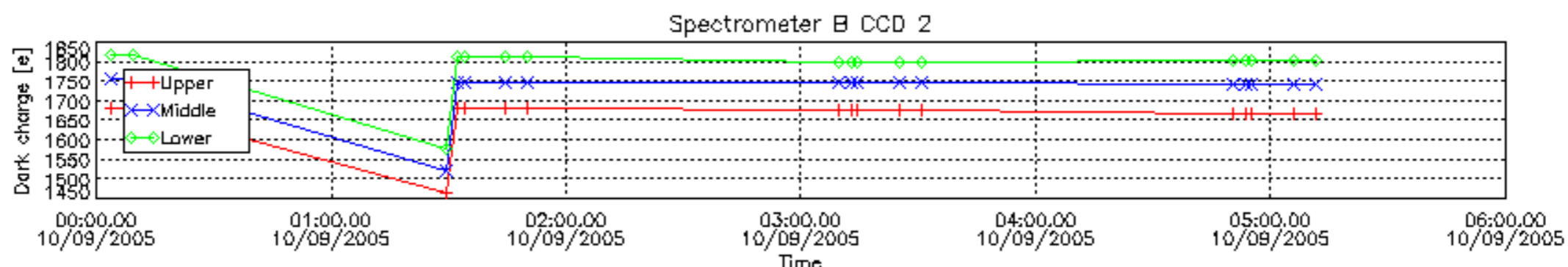
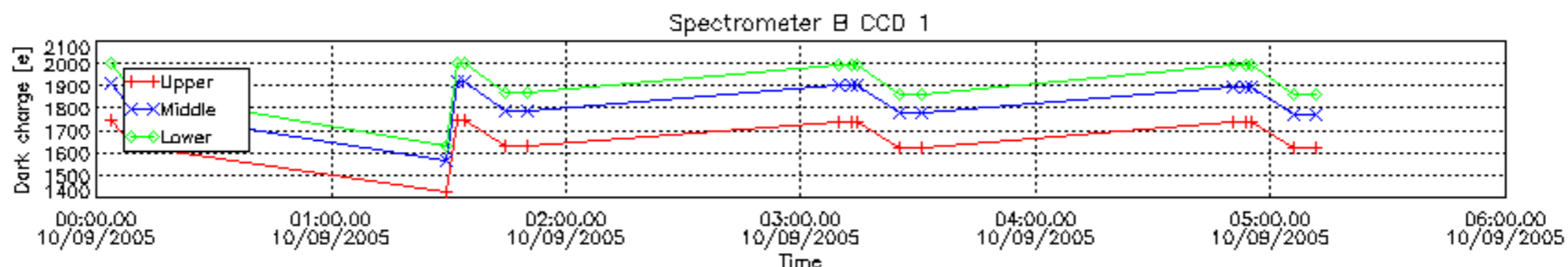
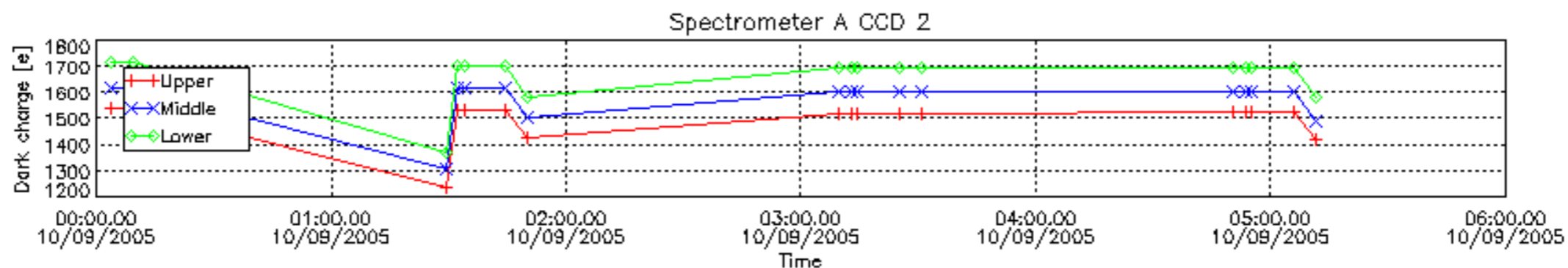
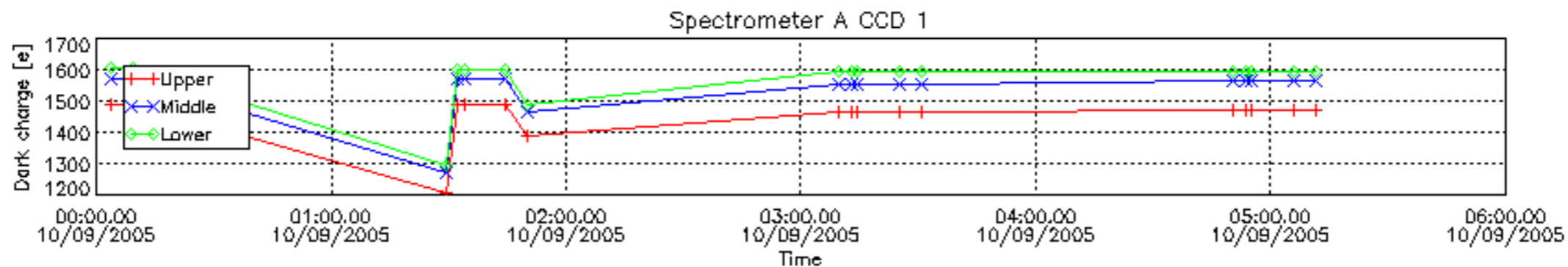
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1458.9	1444.6	1459.2	1446.3
St. deviation:	4.7460	10.403	9.3475	17.174
Maximum:	1536.0	1481.0	1518.0	1517.0
Minimum:	1447.0	1414.0	1441.0	1416.0
Number of data:	13950.	13950.	17150.	17150.

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

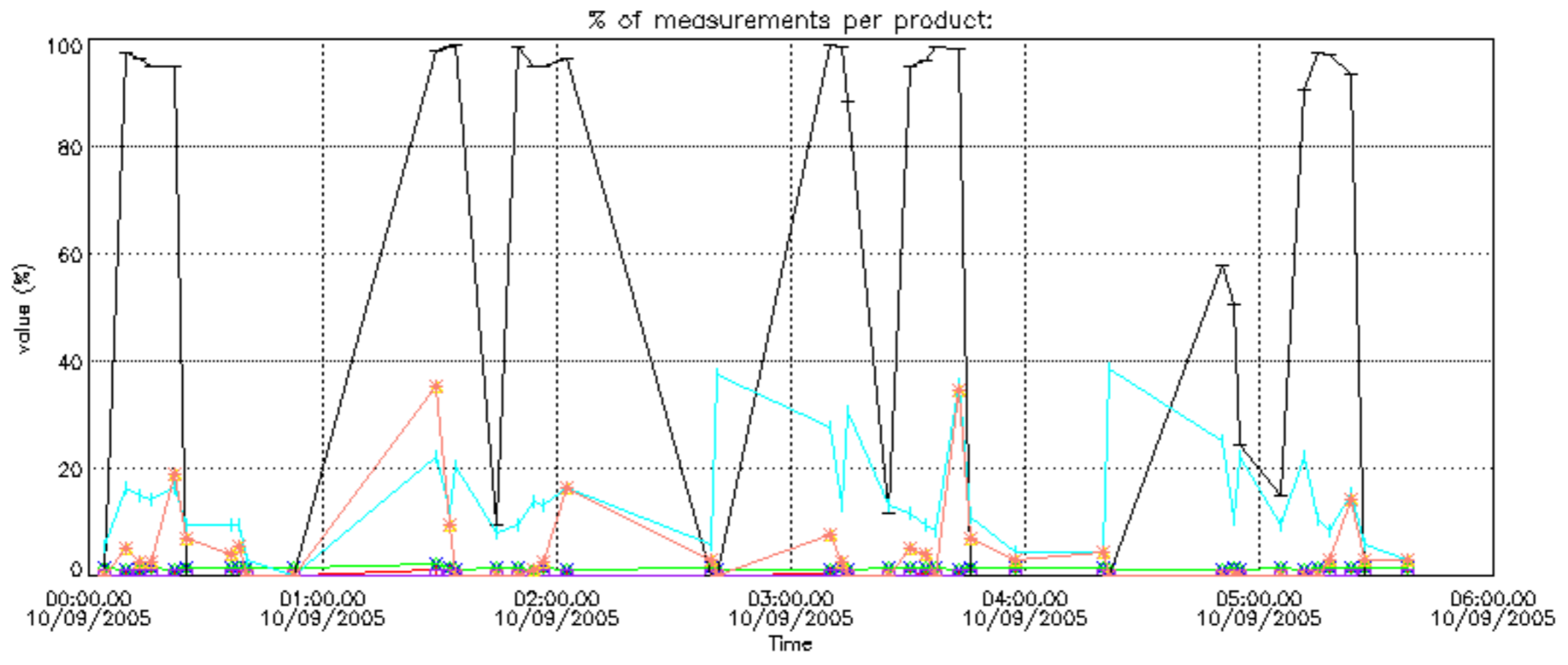
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	10-SEP-2005 00:03:54
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050908_122716_20050907_000000_20100101_000000	1	10-SEP-2005 00:03:54
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	10-SEP-2005 00:03:54
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-SEP-2005 00:03:54
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	10-SEP-2005 00:03:54
ECMWF_FILE	AUX_ECF_AXNECM20050909_060559_20050909_210000_20050910_090000	1	10-SEP-2005 00:03:54
ECMWF_FILE	AUX_ECA_AXNECM20050910_070417_20050909_210000_20050910_090000	6	10-SEP-2005 00:25:01
ECMWF_FILE	AUX_ECF_AXNECM20050909_060559_20050909_210000_20050910_090000	11	10-SEP-2005 01:29:11
ECMWF_FILE	AUX_ECF_AXNECM20050909_192445_20050910_030000_20050910_150000	31	10-SEP-2005 04:20:03
OPTIONAL_ECMWF_FILE	NOT USED	1	10-SEP-2005 00:03:54
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050909_234423_20050909_185250_20050919_201905	1	10-SEP-2005 00:03:54

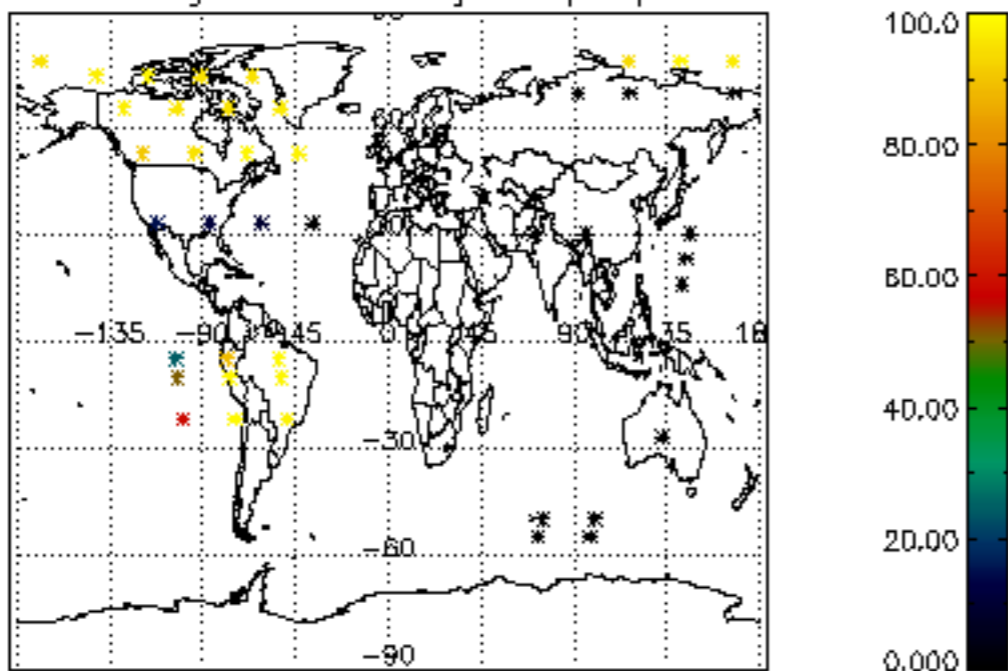




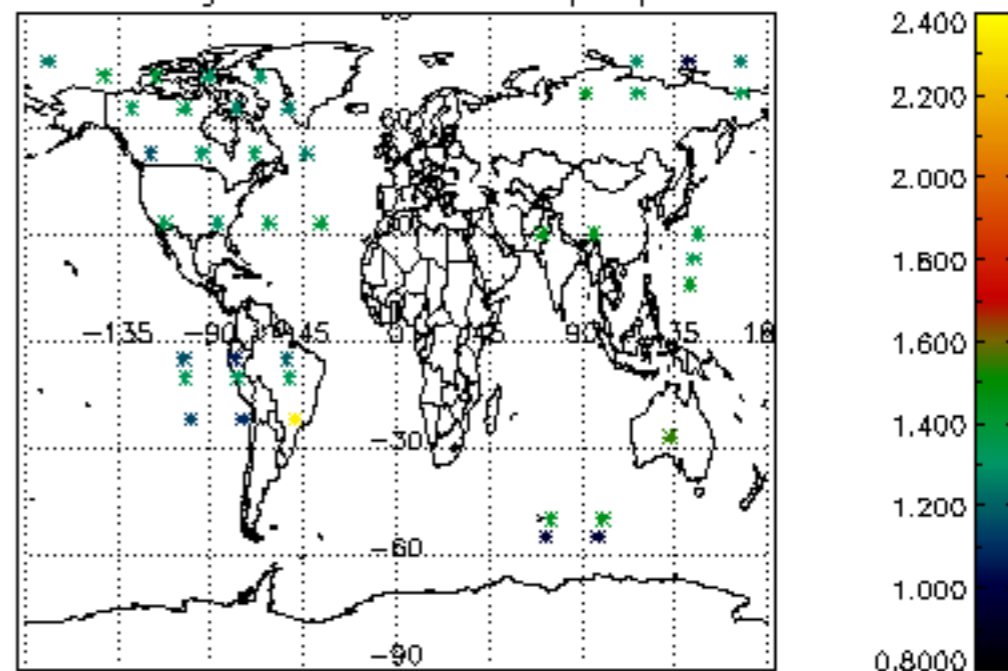




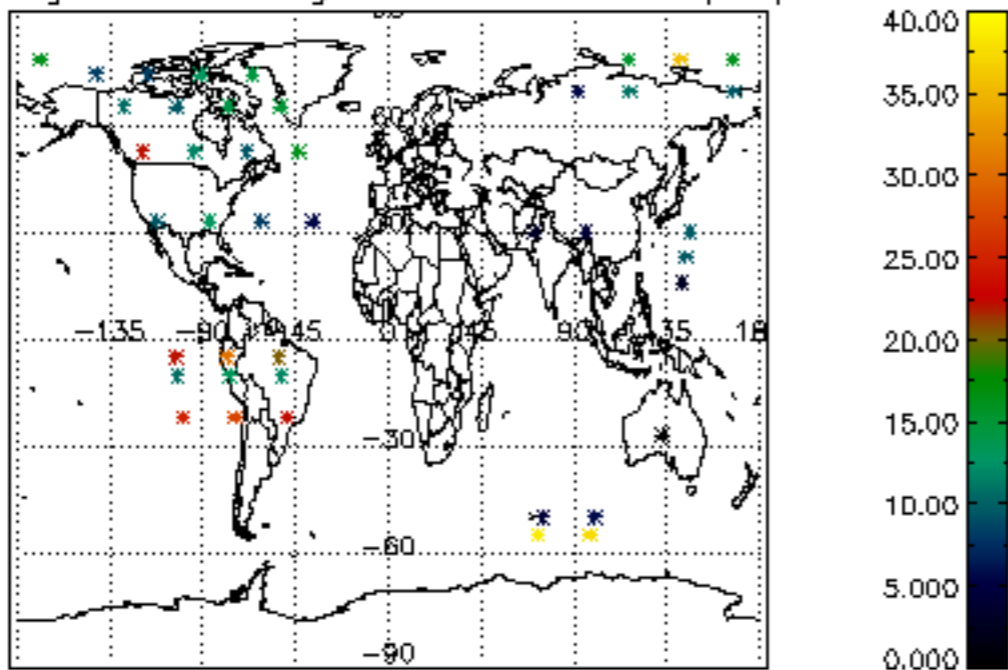
Percentage of cosmic ray hits per profile



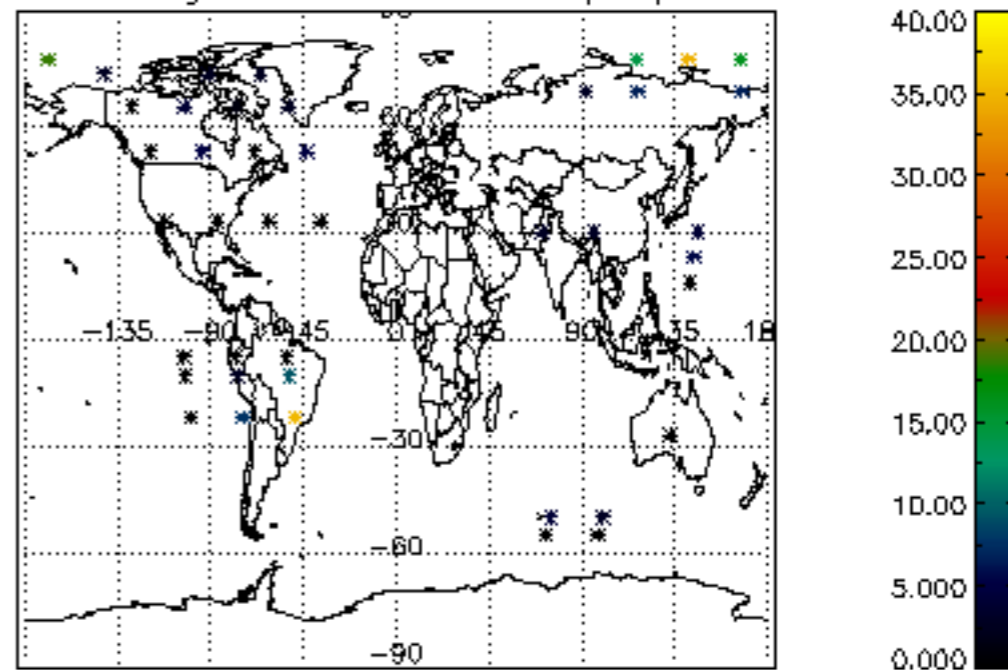
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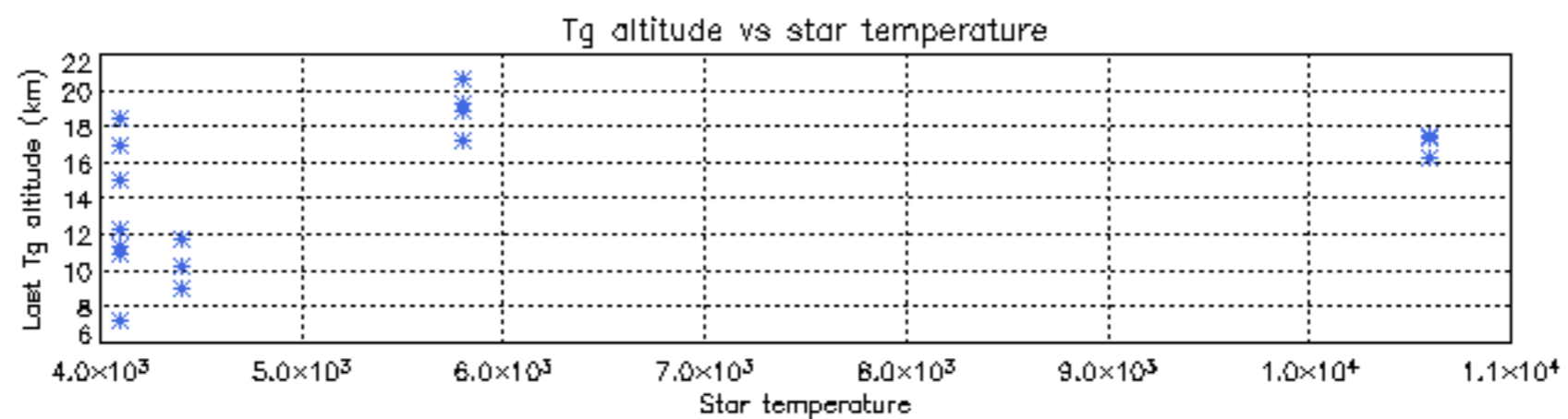
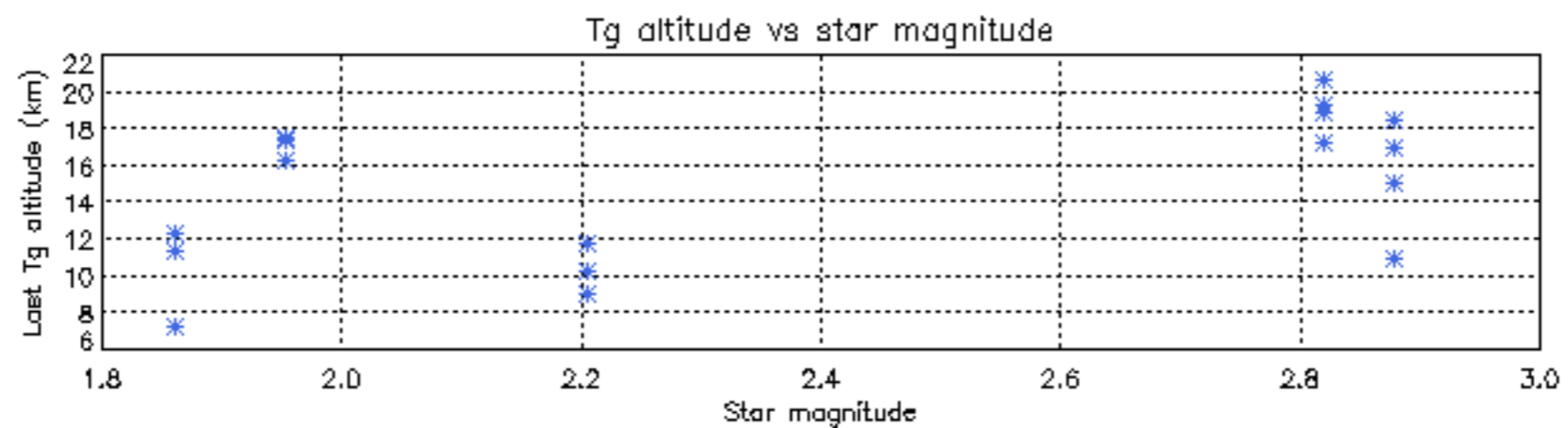
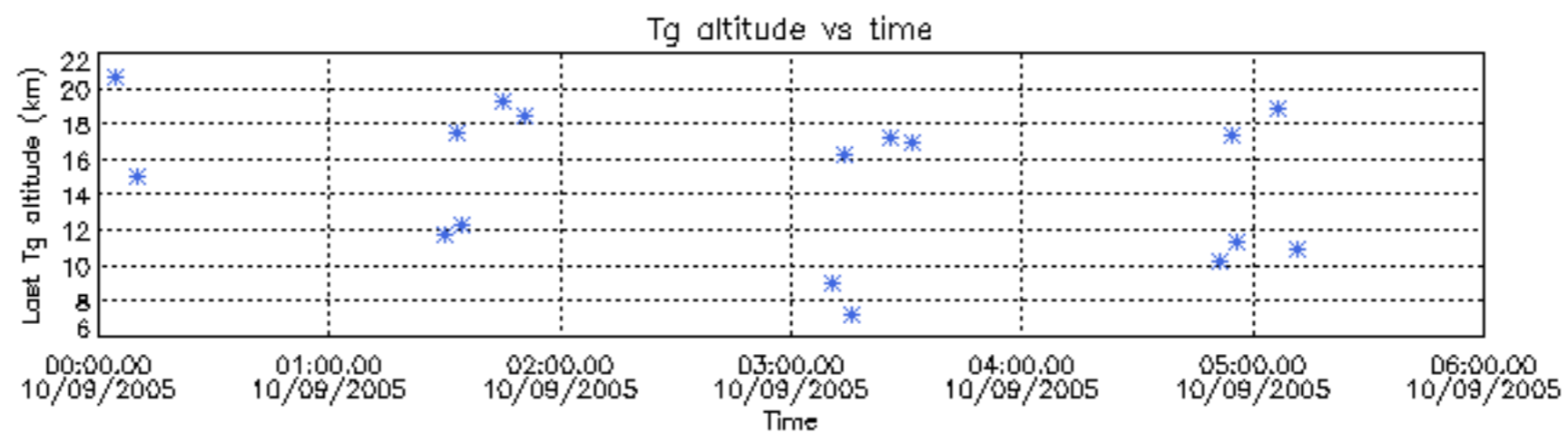
Percentage of star falling outside central band per profile



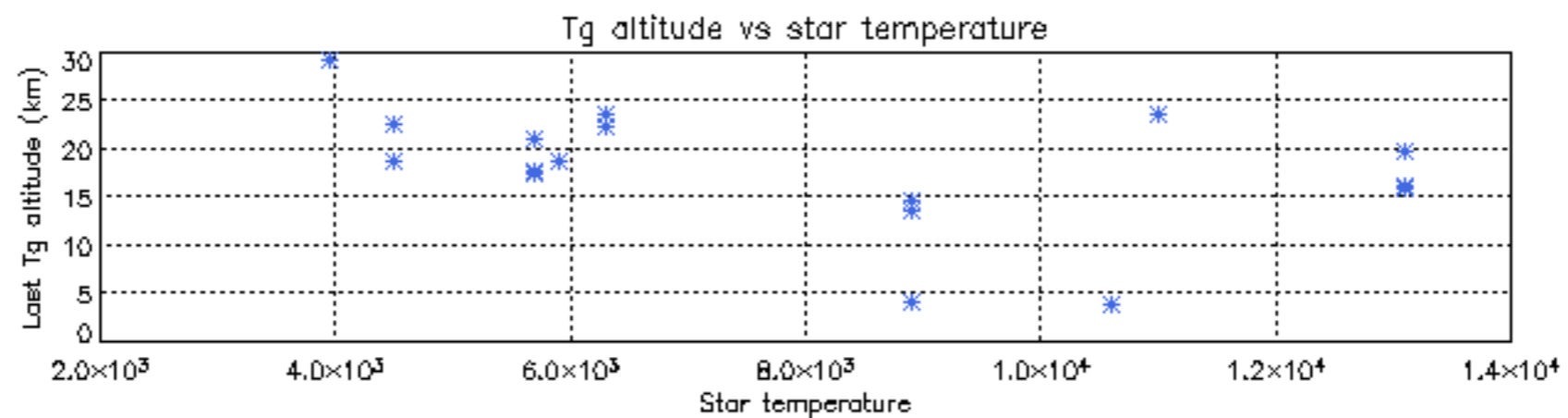
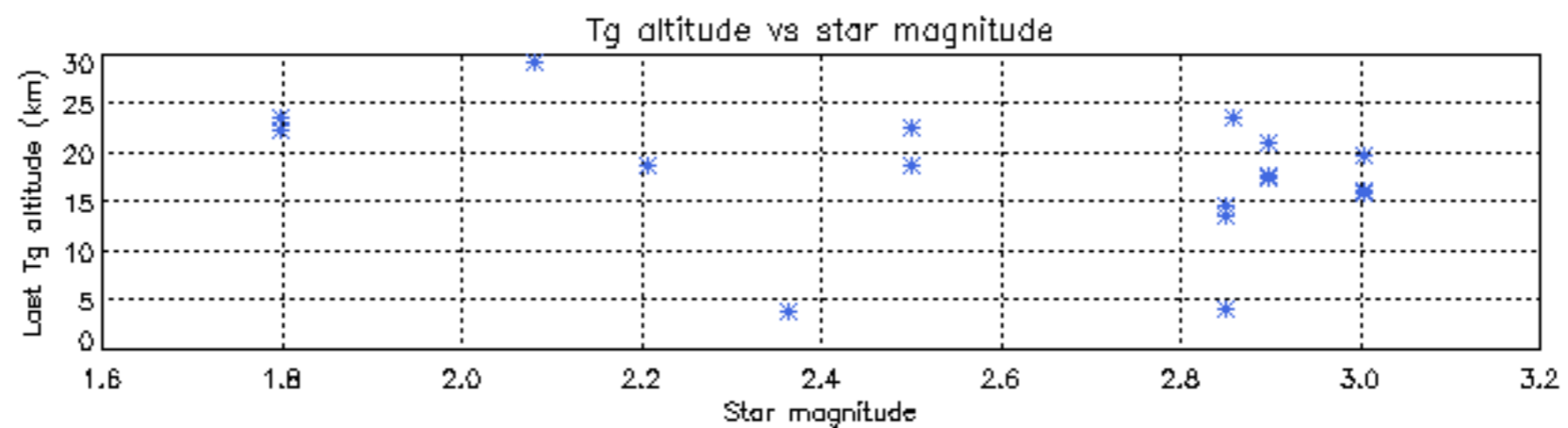
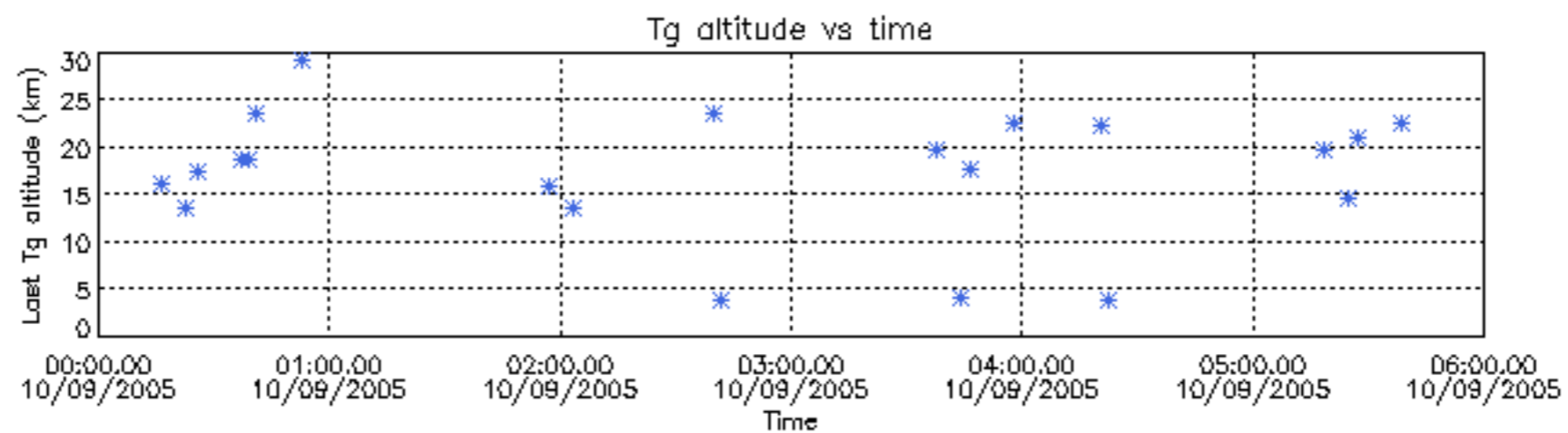
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

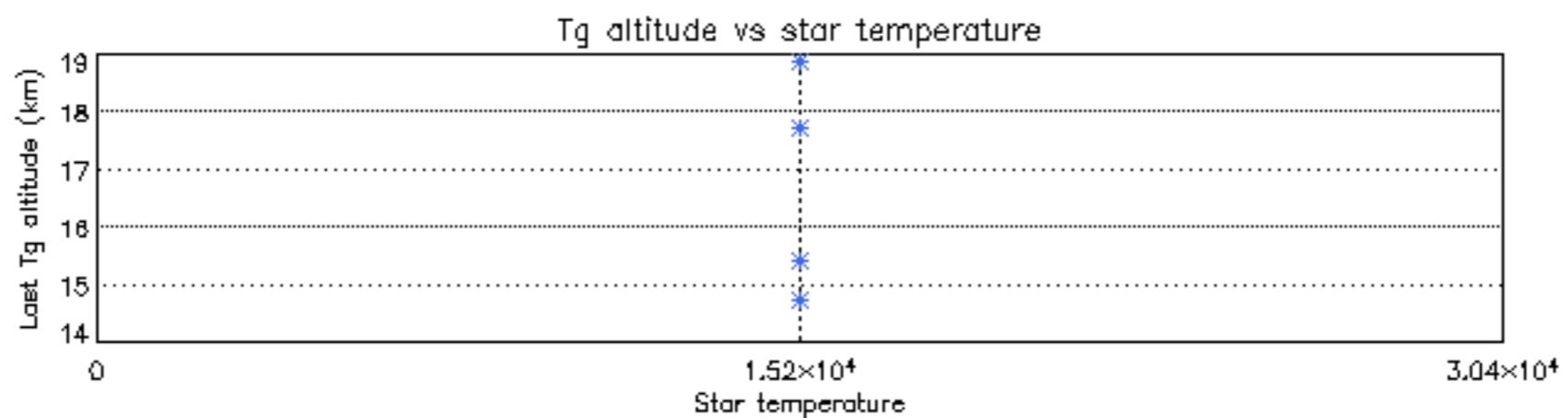
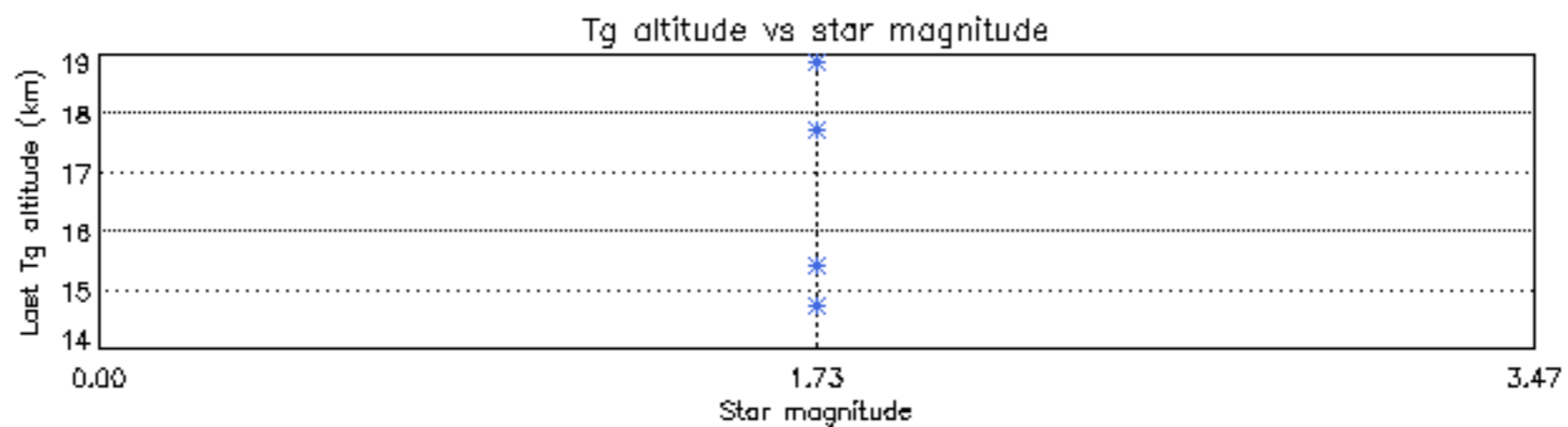
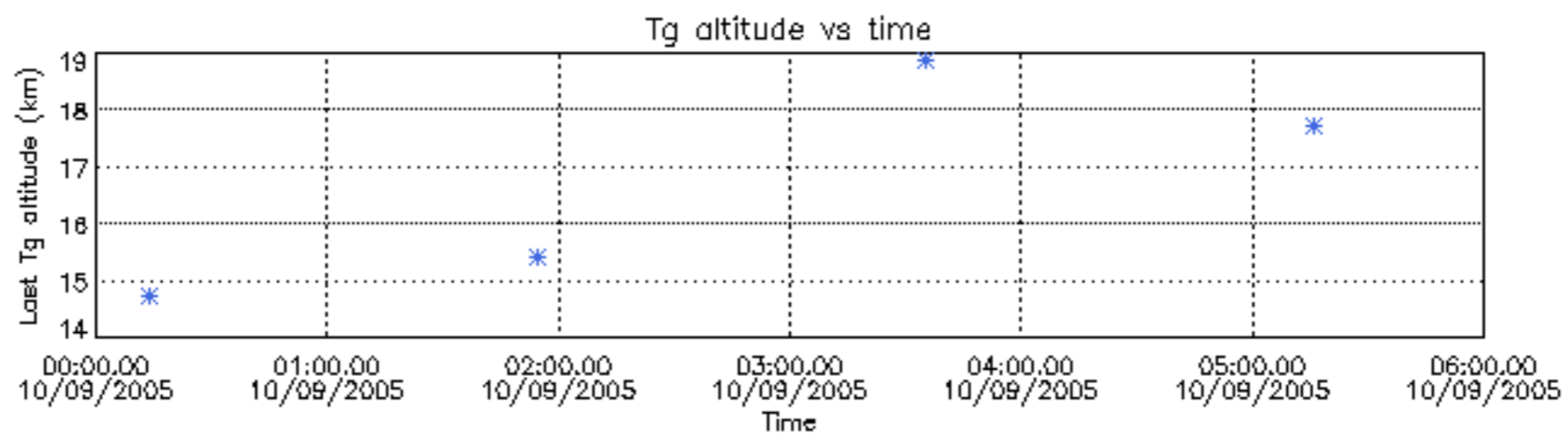


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



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12; -875.4; 30-SEP-2005 19:18:30; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;18747
13; -294.8; 30-SEP-2005 19:28:11; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;18747
14; -205.2; 30-SEP-2005 19:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;18747
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18; 819.0; 30-SEP-2005 19:46:45; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;18748

