

# GOMOS Daily Report 17-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	19SEP2005 05:01:59

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (17SEP2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (18SEP2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

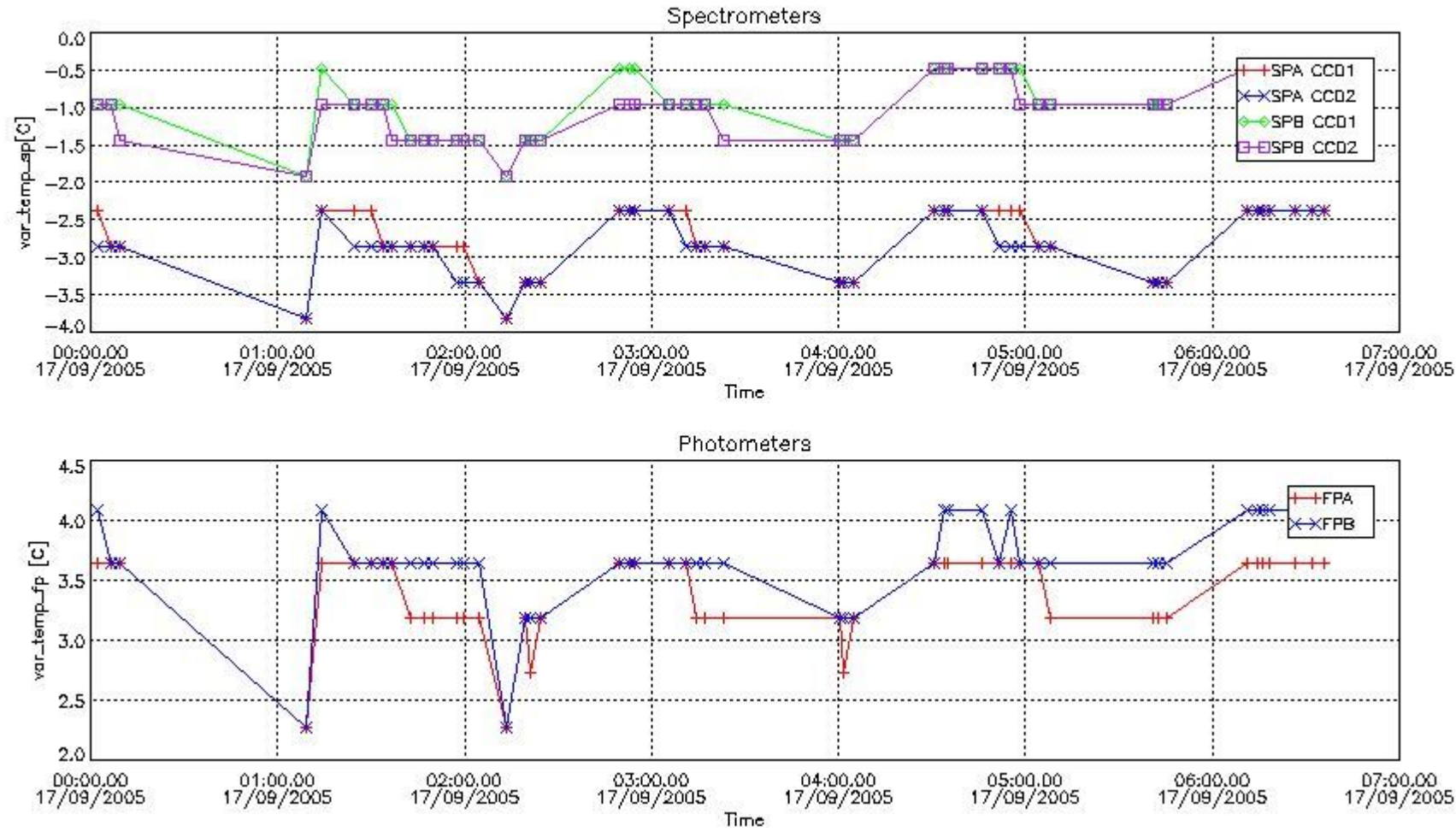
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20050917_000206_000000392040_00460_18550_0007.N1	17-SEP-2005 00:02:06	Bright	38.500	142	49Del Cap	2.8500	8900.0	77	18550	No
2	GOM_TRA_1PNPDE20050917_000619_000000372040_00460_18550_0008.N1	17-SEP-2005 00:06:19	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	18550	No
3	GOM_TRA_1PNPDE20050917_000919_000000382040_00460_18550_0009.N1	17-SEP-2005 00:09:19	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	18550	No
4	GOM_TRA_1PNPDE20050917_010917_000000432040_00460_18550_0000.N1	17-SEP-2005 01:09:17	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	18550	No
5	GOM_TRA_1PNPDE20050917_011407_000000382040_00460_18550_0001.N1	17-SEP-2005 01:14:07	Dark	37.500	41	Eps Car	1.8600	4100.0	75	18550	No
6	GOM_TRA_1PNPDE20050917_012442_000000362040_00461_18551_0002.N1	17-SEP-2005 01:24:42	Dark	35.500	135	Bet Hyi	2.8200	5800.0	71	18551	No
7	GOM_TRA_1PNPDE20050917_013014_000000432040_00461_18551_0003.N1	17-SEP-2005 01:30:14	Dark	42.500	148	Alp Tuc	2.8780	4100.0	85	18551	No
8	GOM_TRA_1PNPDE20050917_013358_000000382040_00461_18551_0004.N1	17-SEP-2005 01:33:58	Twilight	38.000	31	Alp Gru	1.7340	15200.	76	18551	No
9	GOM_TRA_1PNPDE20050917_013645_000000372040_00461_18551_0005.N1	17-SEP-2005 01:36:45	Bright	37.000	172	Gam Gru	3.0030	13100.	74	18551	No
10	GOM_TRA_1PNPDE20050917_014242_000000402040_00461_18551_0006.N1	17-SEP-2005 01:42:42	Bright	39.500	142	49Del Cap	2.8500	8900.0	79	18551	No
11	GOM_TRA_1PNPDE20050917_014655_000000382040_00461_18551_0007.N1	17-SEP-2005 01:46:55	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	18551	No
12	GOM_TRA_1PNPDE20050917_014955_000000382040_00461_18551_0008.N1	17-SEP-2005 01:49:55	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	18551	No
13	GOM_TRA_1PNPDE20050917_015716_000000362040_00461_18551_0009.N1	17-SEP-2005 01:57:16	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	18551	No
14	GOM_TRA_1PNPDE20050917_015925_000000342040_00461_18551_0010.N1	17-SEP-2005 01:59:25	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	18551	No
15	GOM_TRA_1PNPDE20050917_020440_000000362040_00461_18551_0011.N1	17-SEP-2005 02:04:40	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	18551	No
16	GOM_TRA_1PNPDE20050917_021321_000000372040_00461_18551_0000.N1	17-SEP-2005 02:13:21	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	18551	No
17	GOM_TRA_1PNPDE20050917_021942_000000362040_00461_18551_0001.N1	17-SEP-2005 02:19:42	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	18551	No
18	GOM_TRA_1PNPDE20050917_022109_000000342040_00461_18551_0002.N1	17-SEP-2005 02:21:09	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	18551	No
19	GOM_TRA_1PNPDE20050917_022415_000000352040_00461_18551_0003.N1	17-SEP-2005 02:24:15	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	18551	No
20	GOM_TRA_1PNPDE20050917_024953_000000412040_00461_18551_0004.N1	17-SEP-2005 02:49:53	Dark	40.500	65	Lam Vel	2.2040	4400.0	81	18551	No
21	GOM_TRA_1PNPDE20050917_025311_000000382040_00461_18551_0005.N1	17-SEP-2005 02:53:11	Dark	38.000	46	Del Vel	1.9540	10600.	76	18551	No
22	GOM_TRA_1PNPDE20050917_025443_000000382040_00461_18551_0006.N1	17-SEP-2005 02:54:43	Dark	38.000	41	Eps Car	1.8600	4100.0	76	18551	No
23	GOM_TRA_1PNPDE20050917_030518_000000372040_00462_18552_0007.N1	17-SEP-2005 03:05:18	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18552	No
24	GOM_TRA_1PNPDE20050917_031050_000000362040_00462_18552_0008.N1	17-SEP-2005 03:10:50	Dark	36.000	148	Alp Tuc	2.8780	4100.0	72	18552	No
25	GOM_TRA_1PNPDE20050917_031434_000000392040_00462_18552_0009.N1	17-SEP-2005 03:14:34	Twilight	38.500	31	Alp Gru	1.7340	15200.	77	18552	No
26	GOM_TRA_1PNPDE20050917_031721_000000372040_00462_18552_0010.N1	17-SEP-2005 03:17:21	Bright	36.500	172	Gam Gru	3.0030	13100.	73	18552	No
27	GOM_TRA_1PNPDE20050917_032318_000000382040_00462_18552_0011.N1	17-SEP-2005 03:23:18	Bright	38.000	142	49Del Cap	2.8500	8900.0	76	18552	No
28	GOM_TRA_1PNPDE20050917_040018_000000352040_00462_18552_0000.N1	17-SEP-2005 04:00:18	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	18552	No
29	GOM_TRA_1PNPDE20050917_040145_000000332040_00462_18552_0001.N1	17-SEP-2005 04:01:45	Bright	32.500	82	48Bet UMa	2.3650	10600.	65	18552	No
30	GOM_TRA_1PNPDE20050917_040451_000000442040_00462_18552_0002.N1	17-SEP-2005 04:04:51	Bright	44.000	174	52Psi UMa	3.0040	4400.0	88	18552	No
31	GOM_TRA_1PNPDE20050917_043030_000000462040_00462_18552_0003.N1	17-SEP-2005 04:30:30	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	18552	No
32	GOM_TRA_1PNPDE20050917_043347_000000382040_00462_18552_0004.N1	17-SEP-2005 04:33:47	Dark	38.000	46	Del Vel	1.9540	10600.	76	18552	No
33	GOM_TRA_1PNPDE20050917_043519_000000422040_00462_18552_0005.N1	17-SEP-2005 04:35:19	Dark	42.000	41	Eps Car	1.8600	4100.0	84	18552	No
34	GOM_TRA_1PNPDE20050917_044554_000000372040_00463_18553_0006.N1	17-SEP-2005 04:45:54	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	18553	No
35	GOM_TRA_1PNPDE20050917_045126_000000382040_00463_18553_0007.N1	17-SEP-2005 04:51:26	Dark	37.500	148	Alp Tuc	2.8780	4100.0	75	18553	No
36	GOM_TRA_1PNPDE20050917_045510_000000402040_00463_18553_0008.N1	17-SEP-2005 04:55:10	Twilight	39.500	31	Alp Gru	1.7340	15200.	79	18553	No
37	GOM_TRA_1PNPDE20050917_045757_000000382040_00463_18553_0009.N1	17-SEP-2005 04:57:57	Bright	37.500	172	Gam Gru	3.0030	13100.	75	18553	No
38	GOM_TRA_1PNPDE20050917_050354_000000392040_00463_18553_0010.N1	17-SEP-2005 05:03:54	Bright	38.500	142	49Del Cap	2.8500	8900.0	77	18553	No
39	GOM_TRA_1PNPDE20050917_050807_000000382040_00463_18553_0011.N1	17-SEP-2005 05:08:07	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	18553	No
40	GOM_TRA_1PNPDE20050917_054055_000000352040_00463_18553_0000.N1	17-SEP-2005 05:40:55	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	18553	No
41	GOM_TRA_1PNPDE20050917_054222_000000332040_00463_18553_0001.N1	17-SEP-2005 05:42:22	Bright	33.000	82	48Bet UMa	2.3650	10600.	66	18553	No
42	GOM_TRA_1PNPDE20050917_054527_000000522040_00463_18553_0002.N1	17-SEP-2005 05:45:27	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	18553	No
43	GOM_TRA_1PNPDE20050917_061106_000000492040_00463_18553_0003.N1	17-SEP-2005 06:11:06	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	18553	No
44	GOM_TRA_1PNPDE20050917_061423_000000412040_00463_18553_0004.N1	17-SEP-2005 06:14:23	Dark	40.500	46	Del Vel	1.9540	10600.	81	18553	No
45	GOM_TRA_1PNPDE20050917_061556_000000482040_00463_18553_0005.N1	17-SEP-2005 06:15:56	Dark	47.500	41	Eps Car	1.8600	4100.0	95	18553	No
46	GOM_TRA_1PNPDE20050917_061814_00000042040_00464_18554_0006.N1	17-SEP-2005 06:18:14	Dark	4.0000	29	Bet Car	1.6720	10200.	8	18554	No

47	GOM_TRA_1PNPDE20050917_062630_000000382040_00464_18554_0007.N1	17-SEP-2005 06:26:30	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	18554	No
48	GOM_TRA_1PNPDE20050917_063202_000000452040_00464_18554_0008.N1	17-SEP-2005 06:32:02	Dark	45.000	148	Alp Tuc	2.8780	4100.0	90	18554	No
49	GOM_TRA_1PNPDE20050917_063546_000000412040_00464_18554_0009.N1	17-SEP-2005 06:35:46	Twilight	41.000	31	Alp Gru	1.7340	15200.	82	18554	No

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



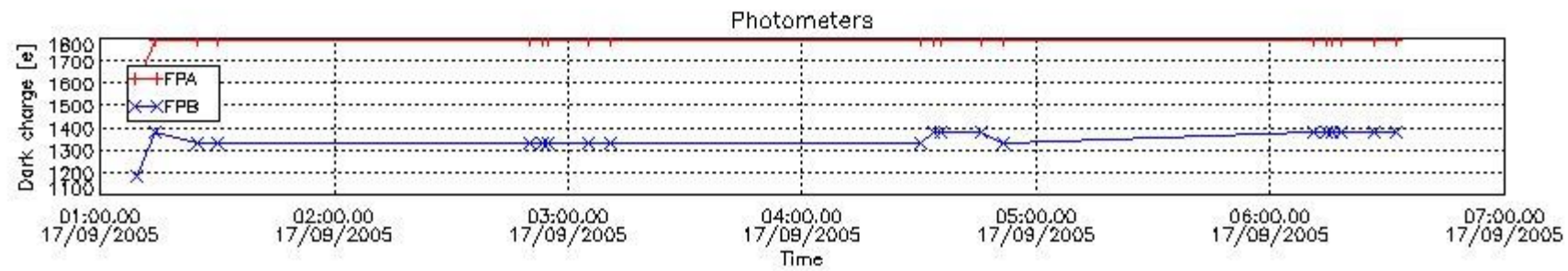
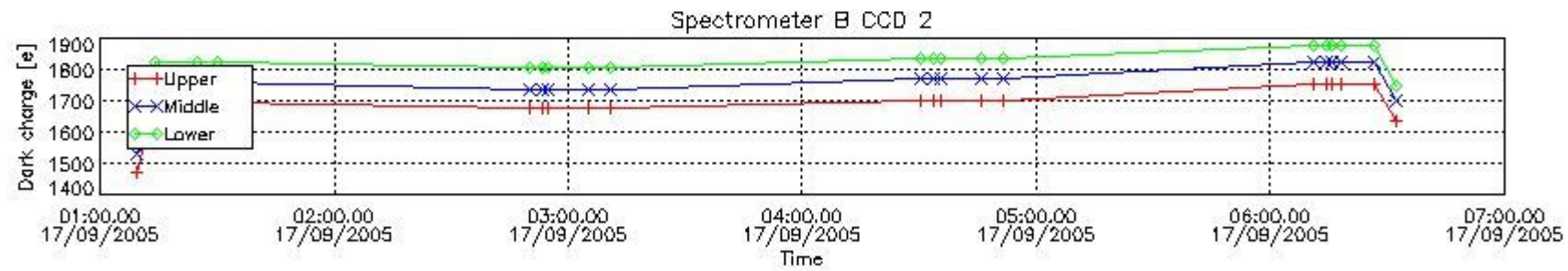
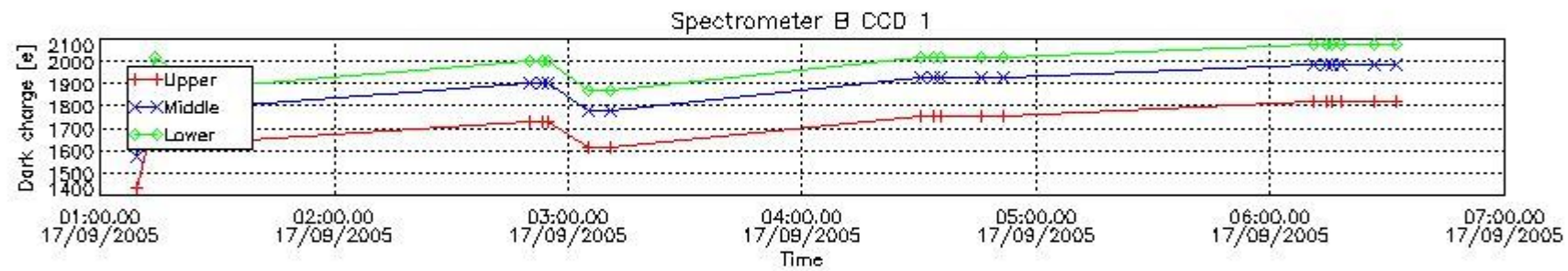
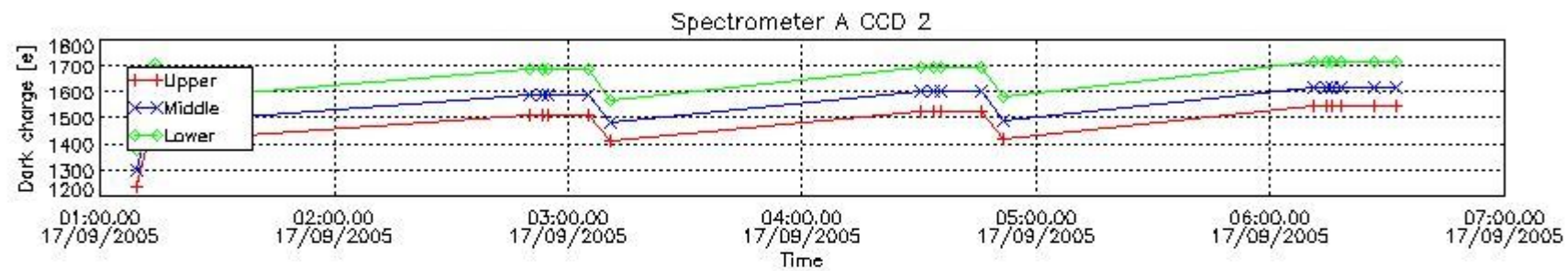
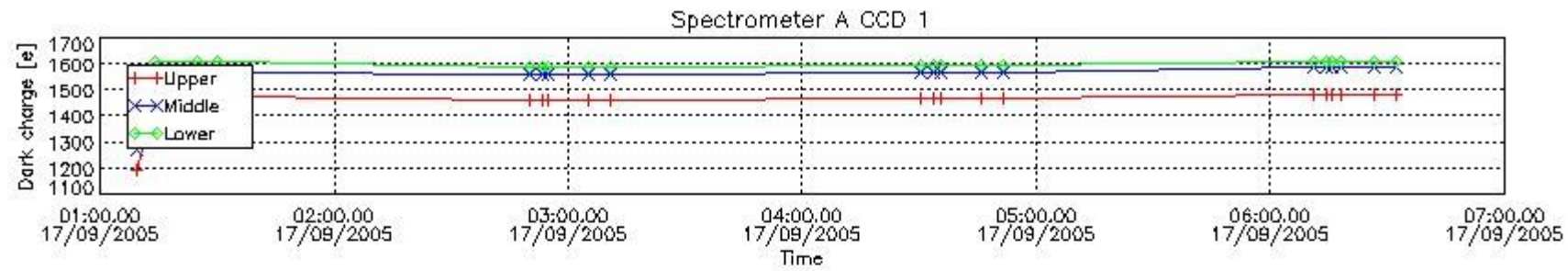
### 4. Overview of dark signal processing per product

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



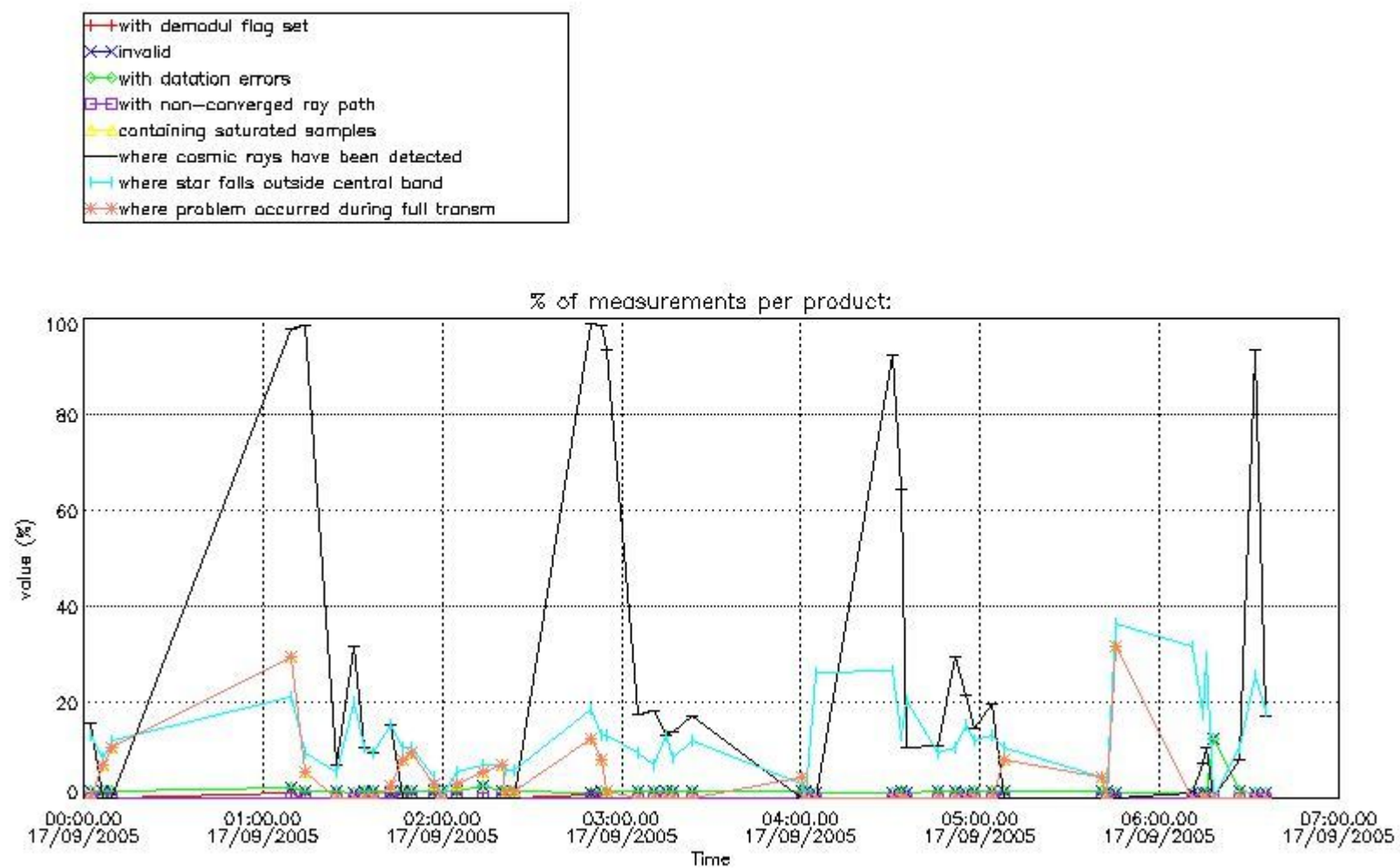
## 5. Demodulation flag and quality information monitoring

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.

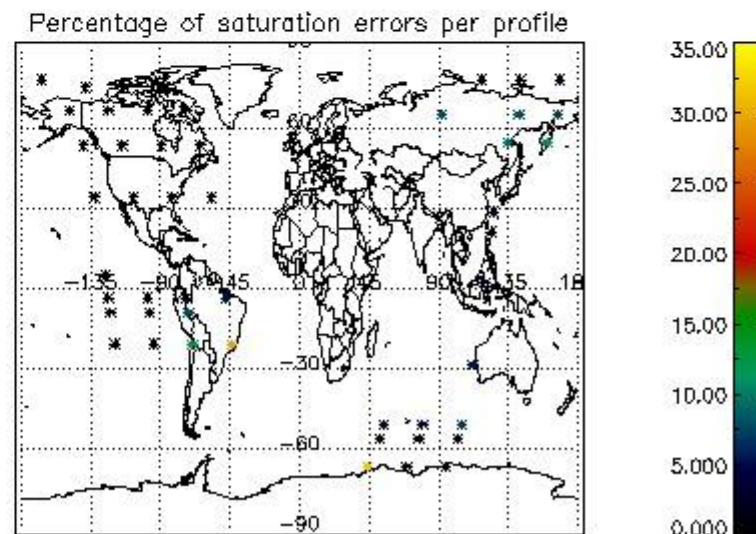
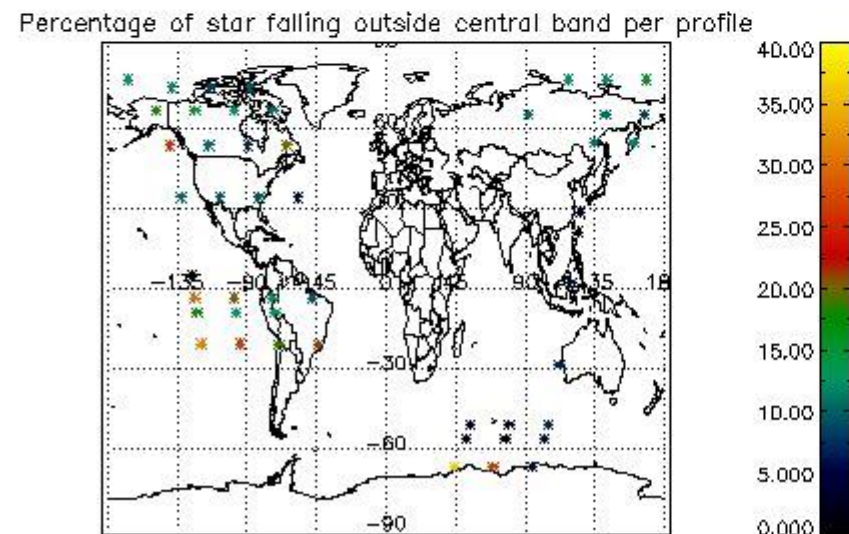
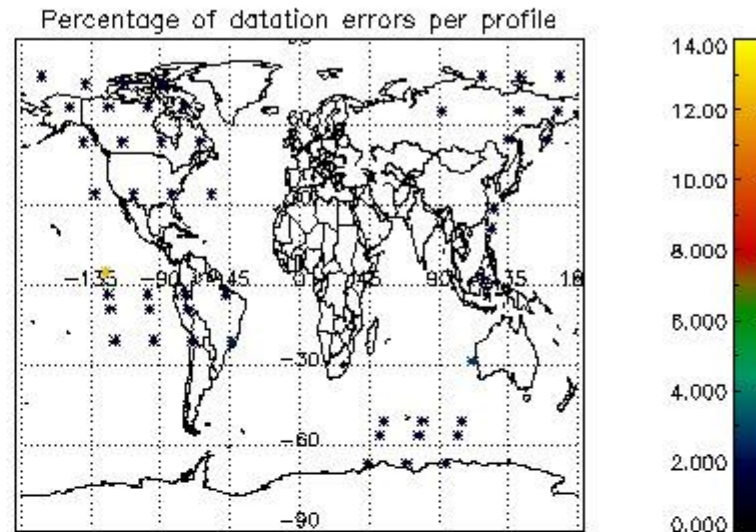
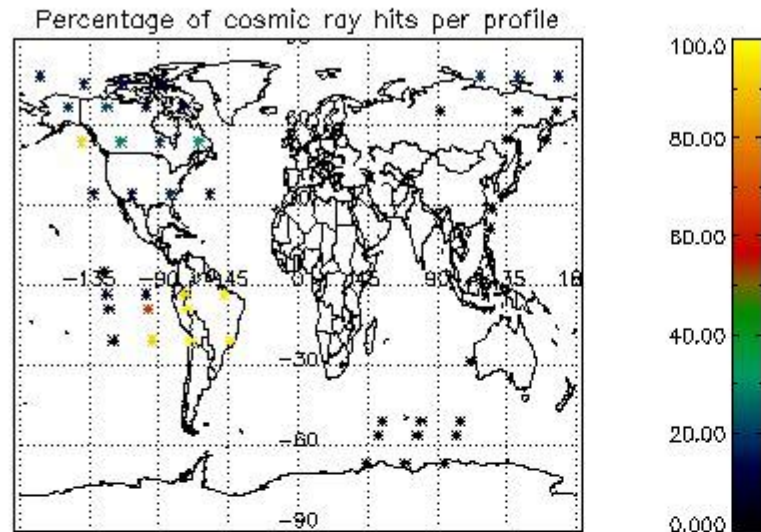
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.2857 %
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)



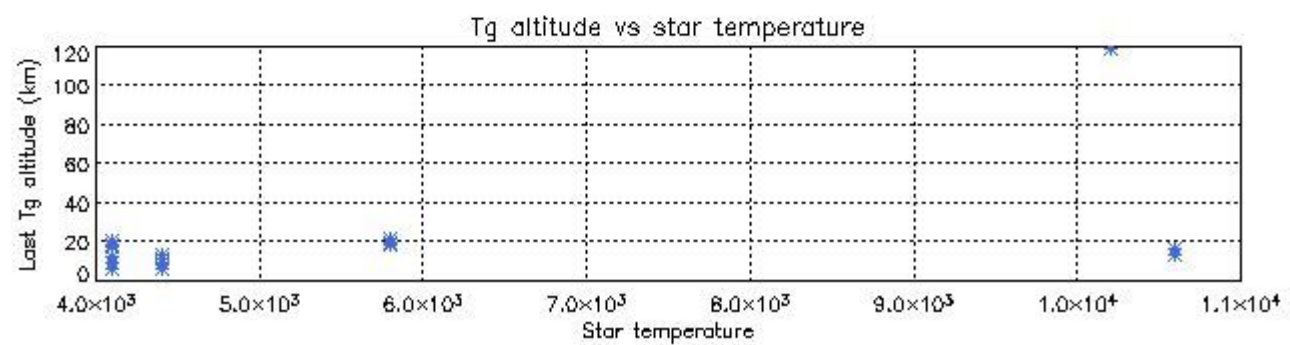
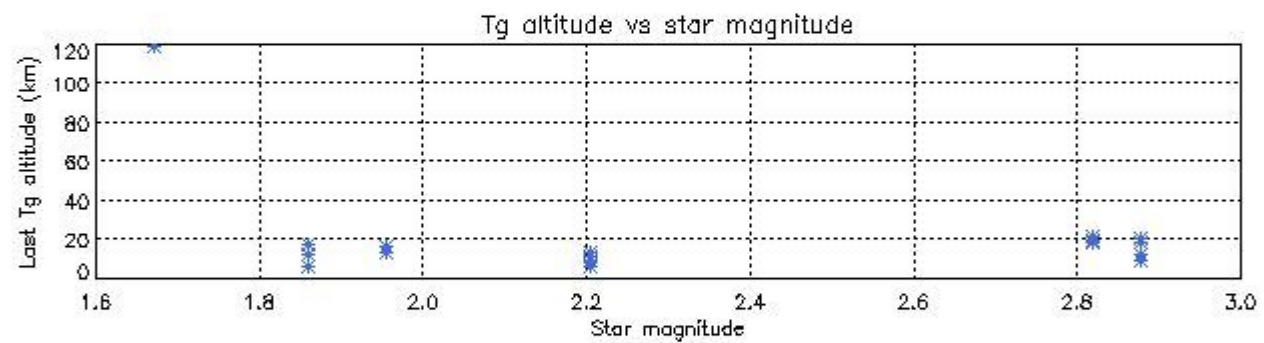
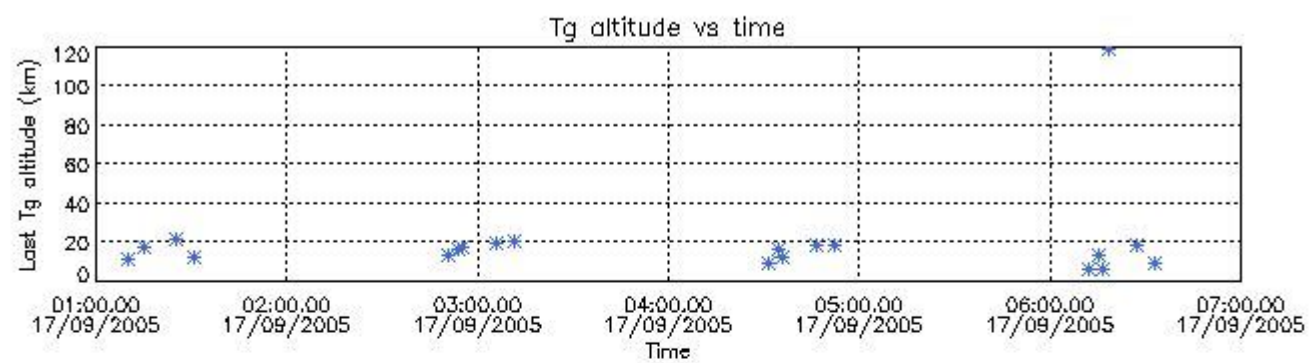
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	19.888	18.855	15.658
St. deviation:	23.697	5.1119	1.8147
Maximum:	118.67	27.521	17.651
Minimum:	6.0562	4.1425	13.551
Number of data:	20.000	25.000	4.0000

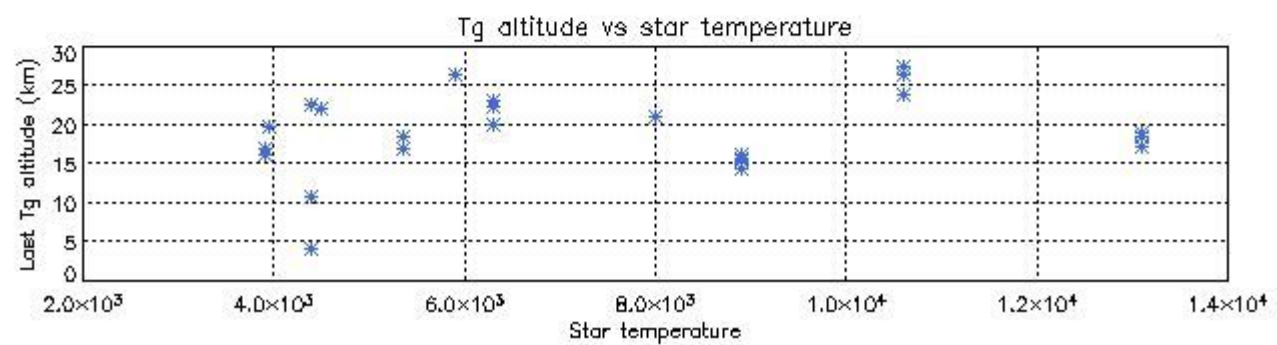
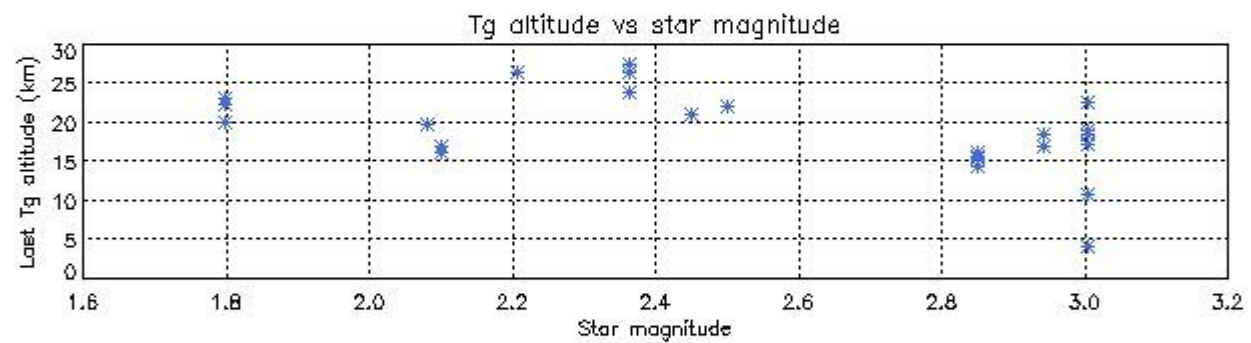
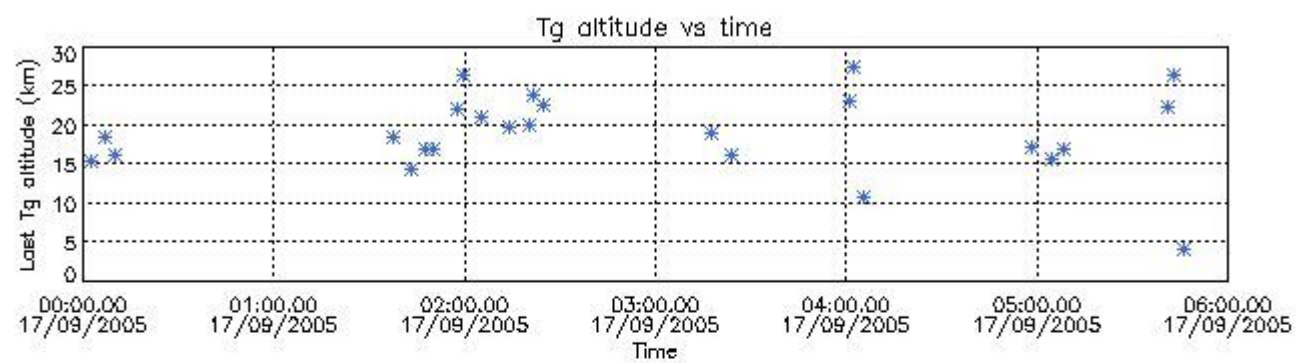
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

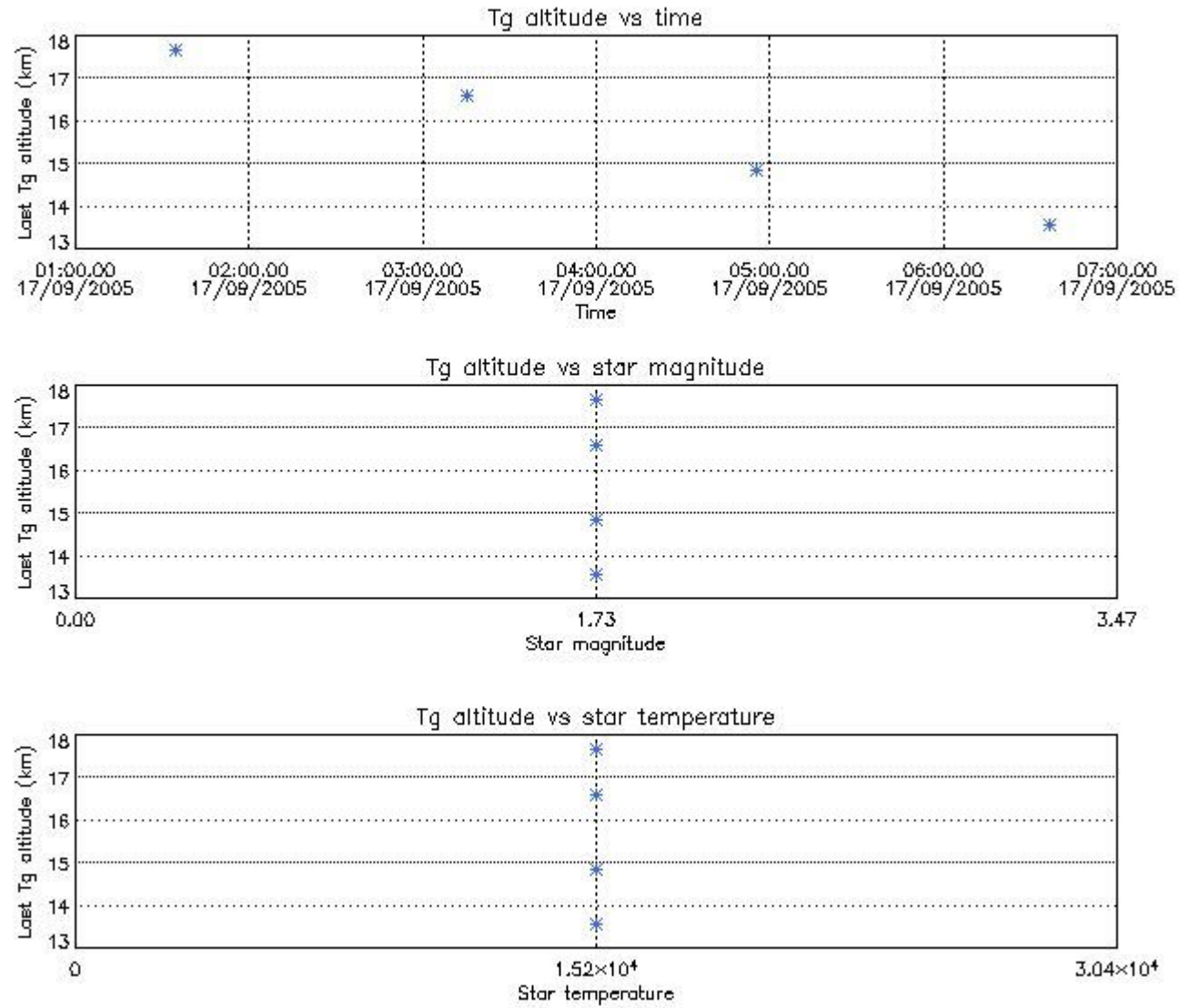
Tangent altitude at which the star is lost



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

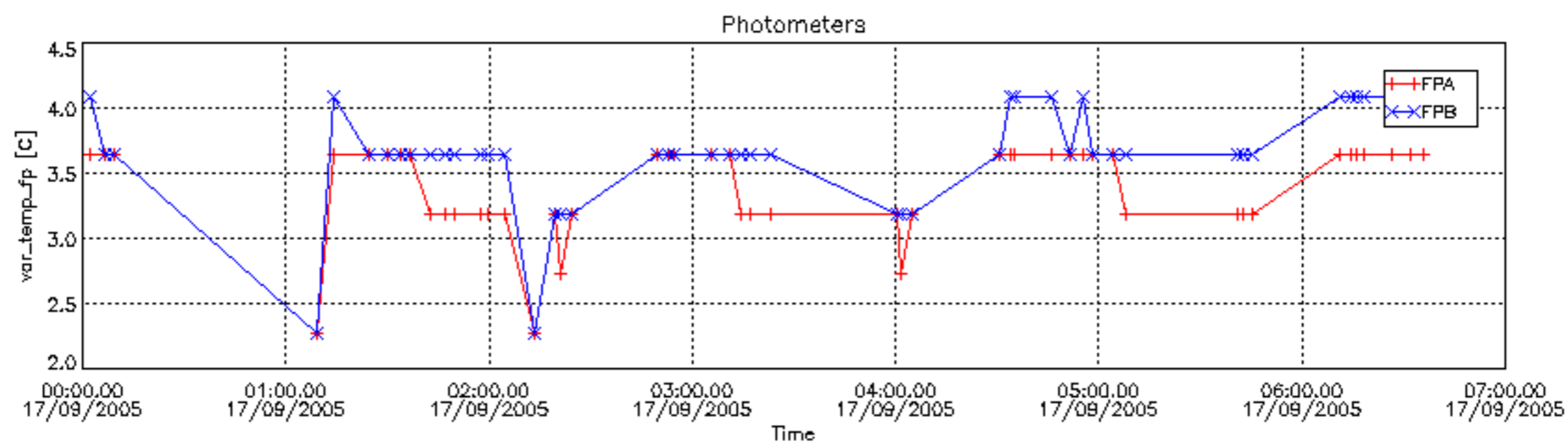
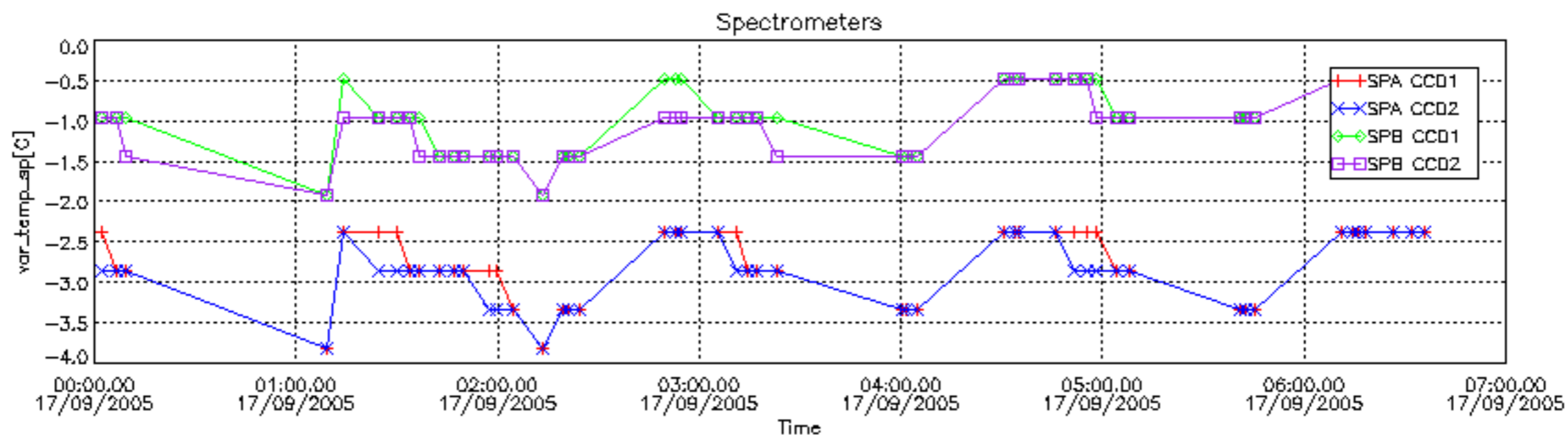
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

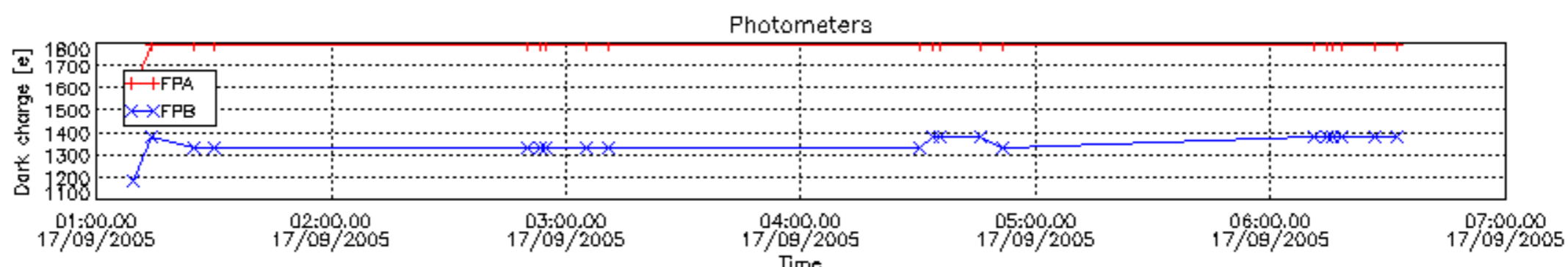
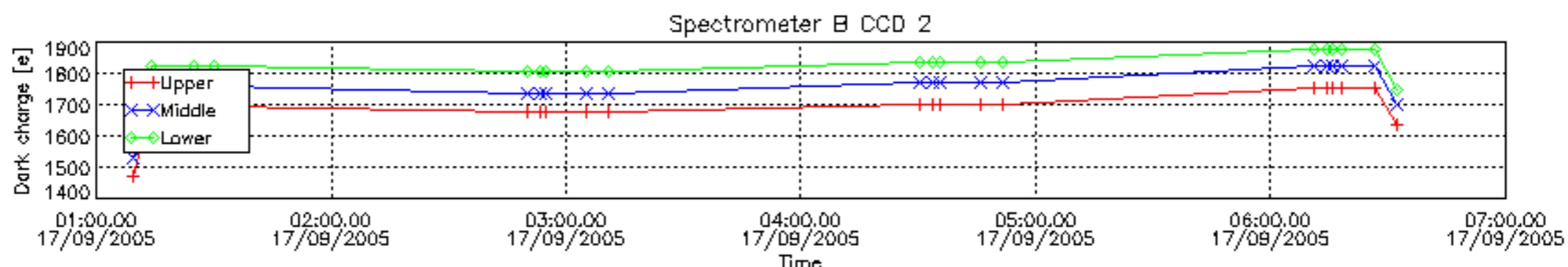
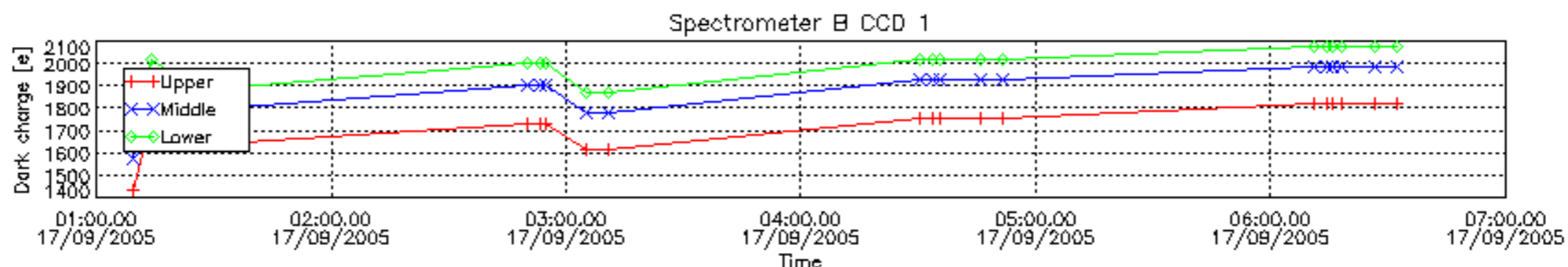
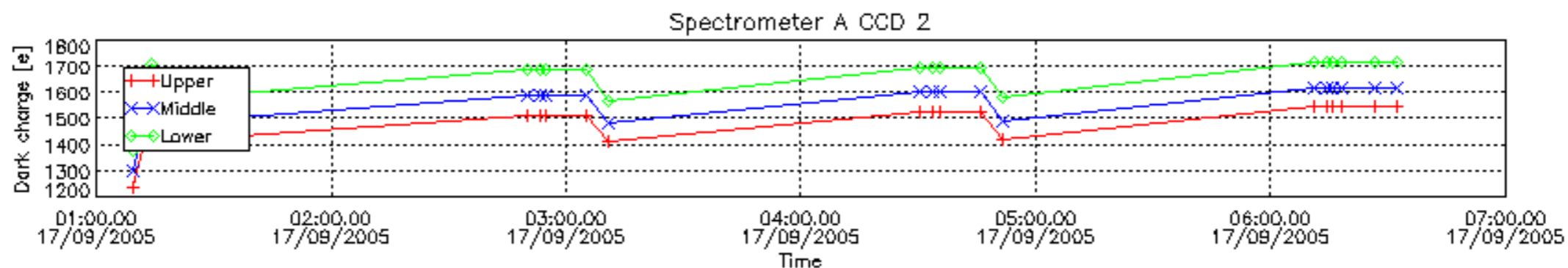
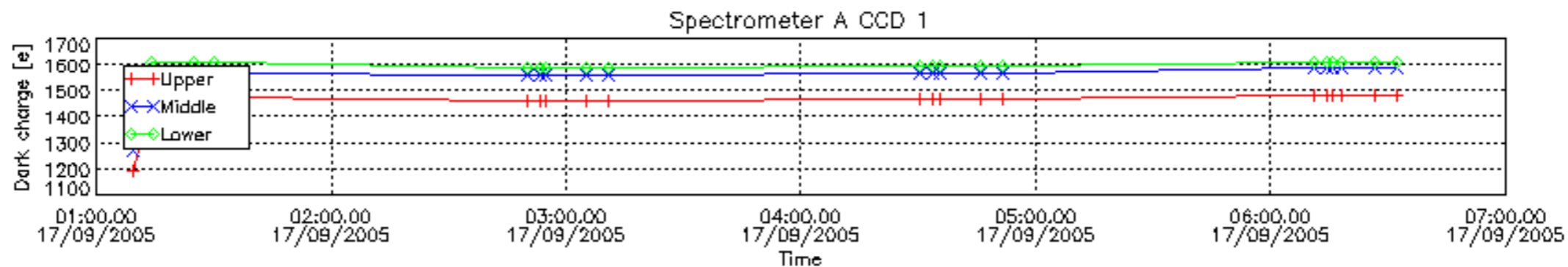
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1459.1	1444.8	1458.9	1446.7
St. deviation:	4.5323	10.201	8.4724	15.617
Maximum:	1484.0	1485.0	1517.0	1520.0
Minimum:	1444.0	1417.0	1428.0	1404.0
Number of data:	16250.	16250.	20500.	20500.

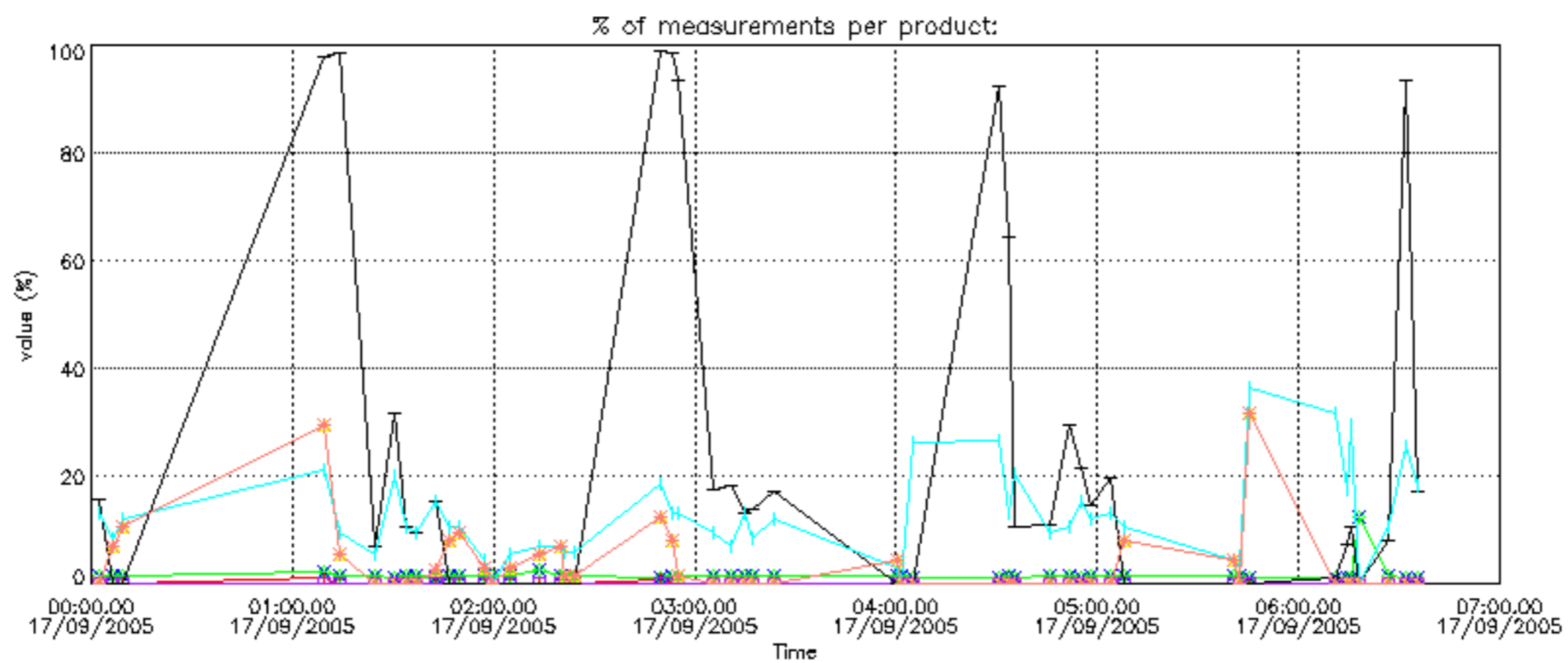
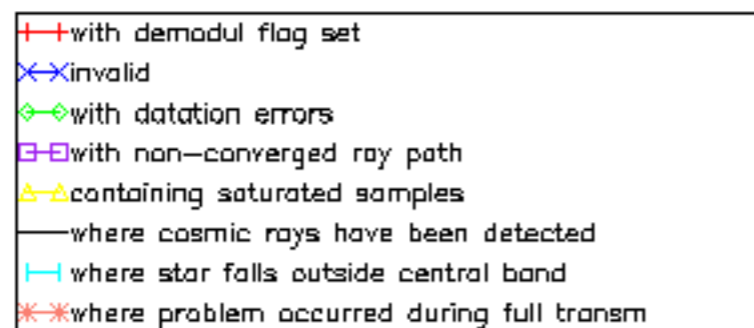
## 8. Auxiliary Data Files used for the production reported in section 2.2

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.

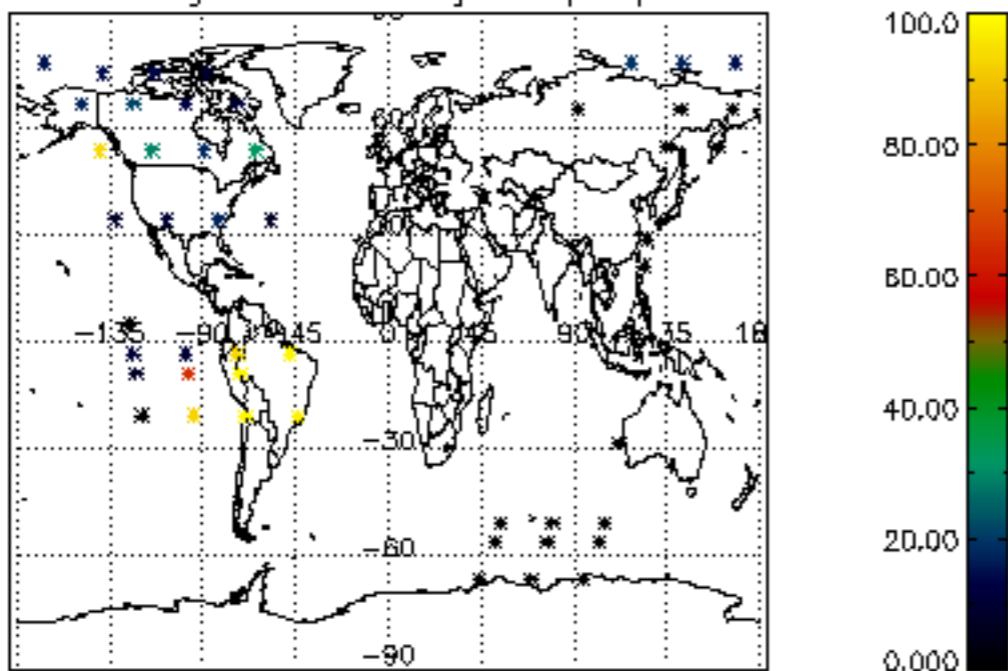
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	17-SEP-2005 00:02:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050908_122716_20050907_000000_20100101_000000	1	17-SEP-2005 00:02:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	17-SEP-2005 00:02:06
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-SEP-2005 00:02:06
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	17-SEP-2005 00:02:06
ECMWF_FILE	AUX_ECF_AXNECM20050916_061135_20050916_210000_20050917_090000	1	17-SEP-2005 00:02:06
ECMWF_FILE	AUX_ECA_AXNECM20050917_070202_20050916_210000_20050917_090000	3	17-SEP-2005 00:09:19
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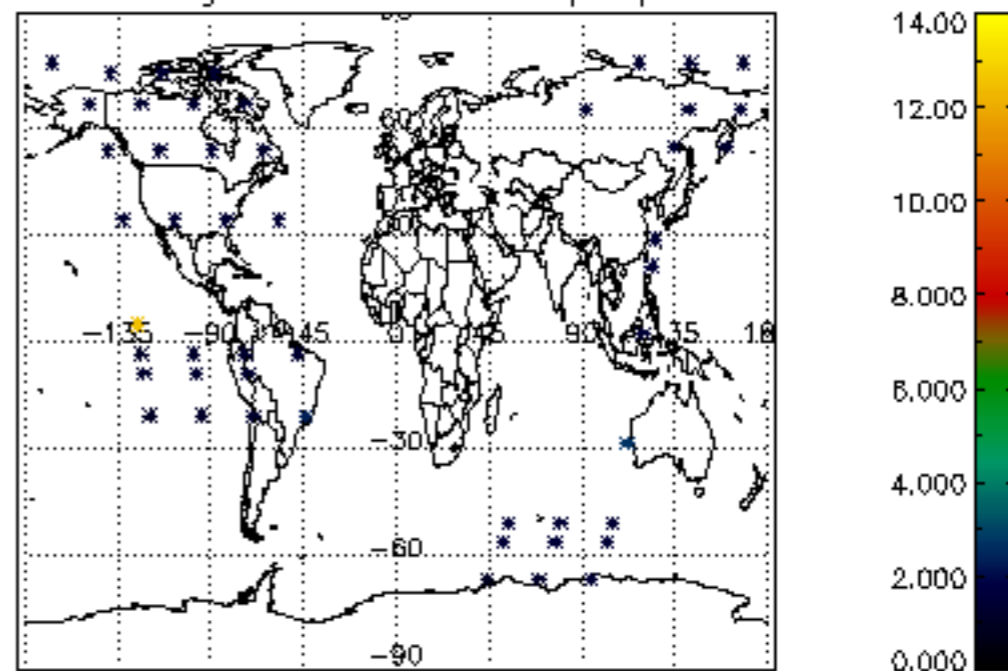




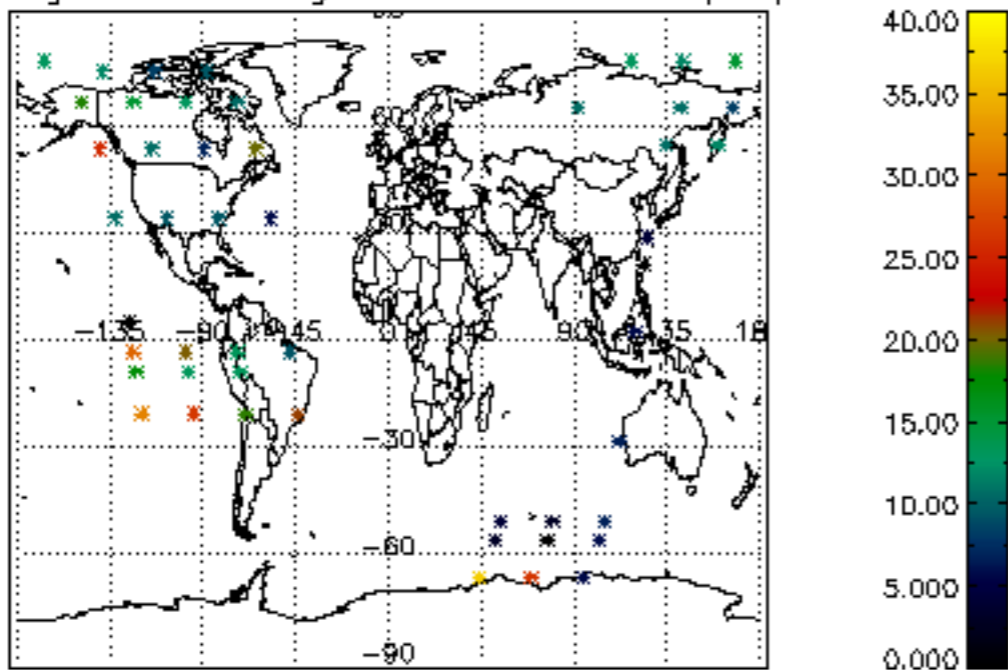
Percentage of cosmic ray hits per profile



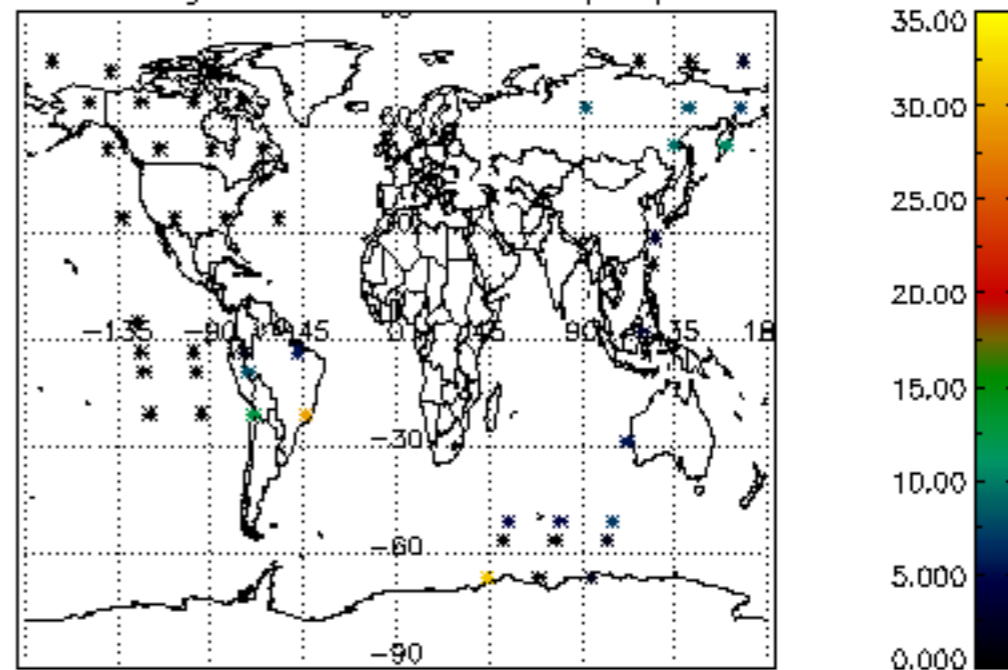
Percentage of datation errors per profile



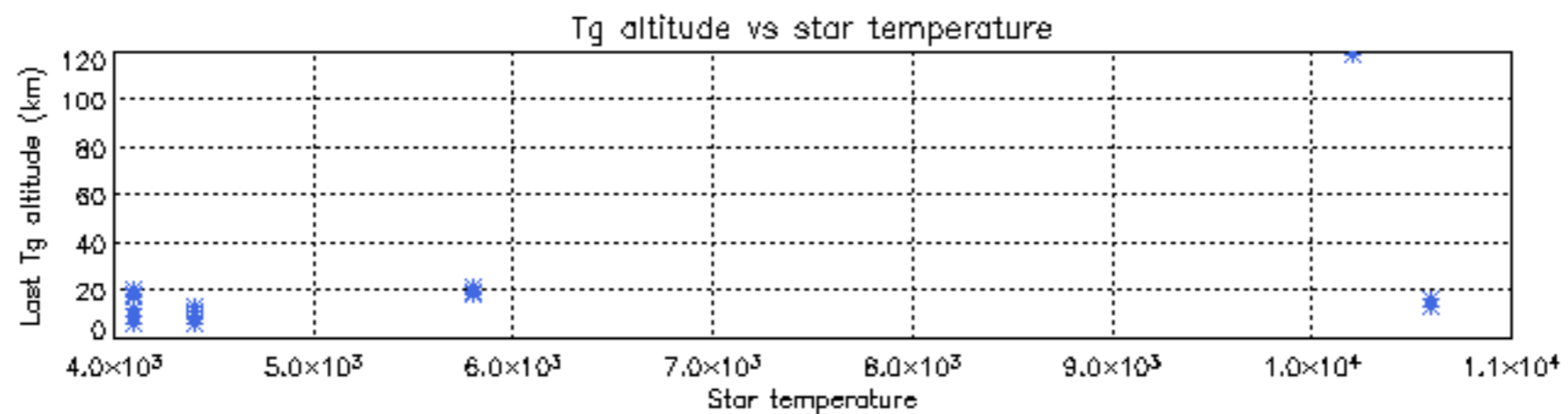
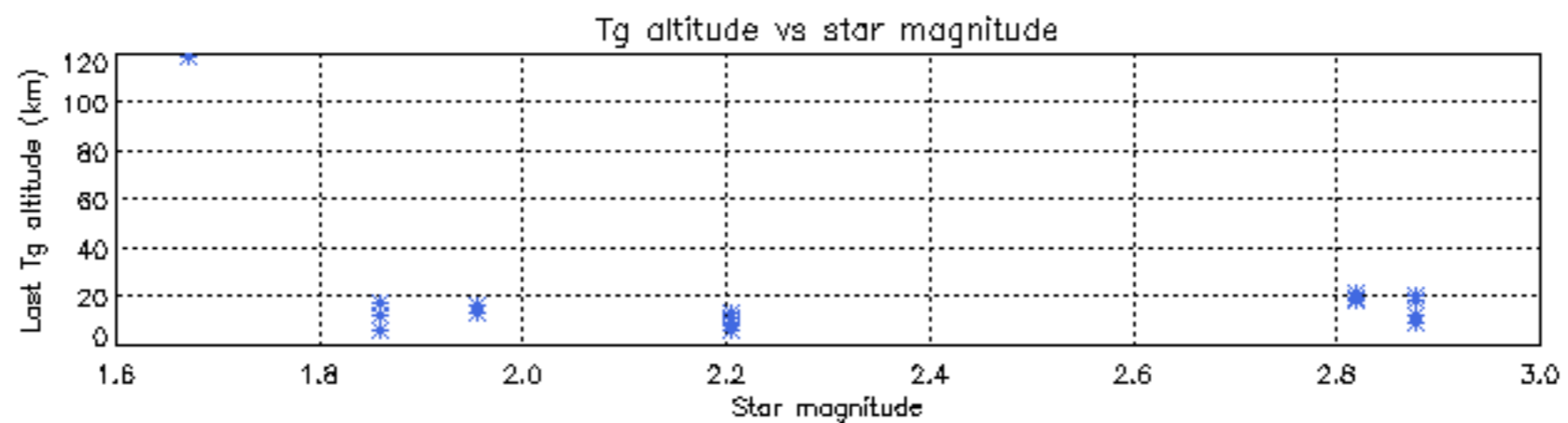
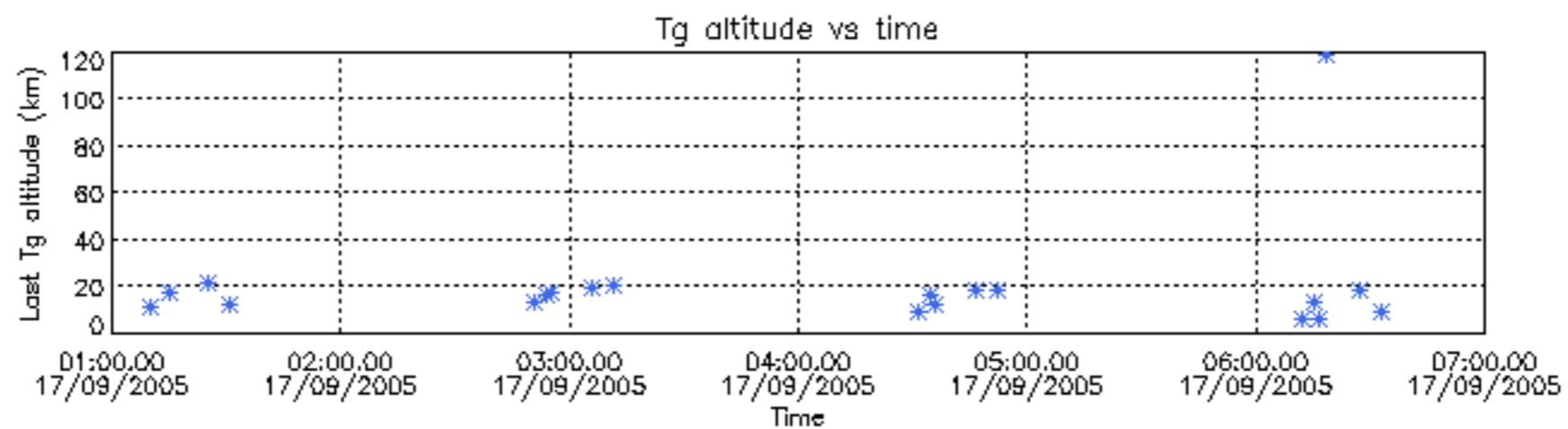
Percentage of star falling outside central band per profile



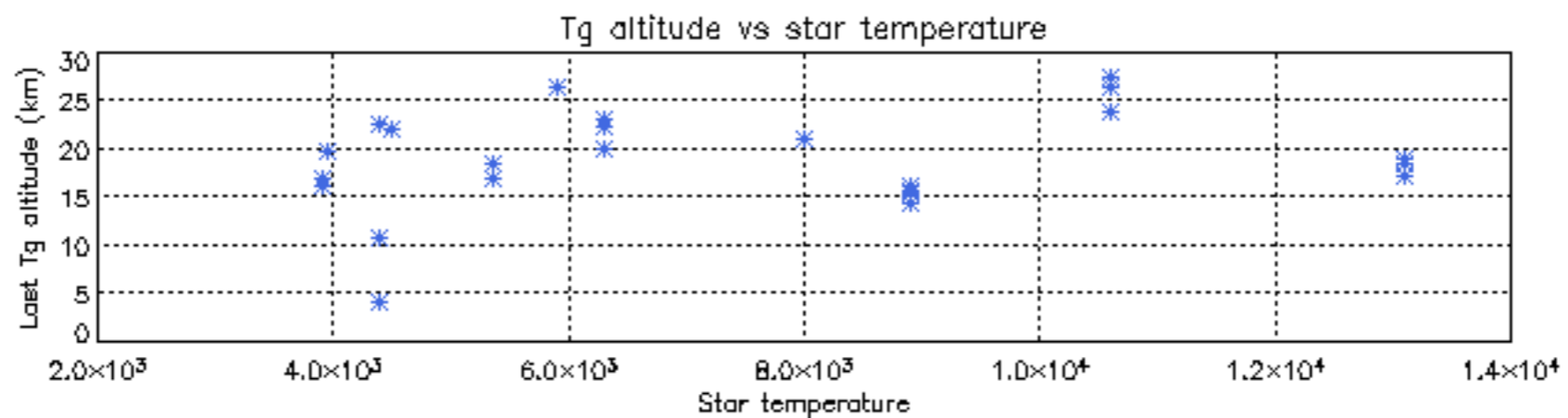
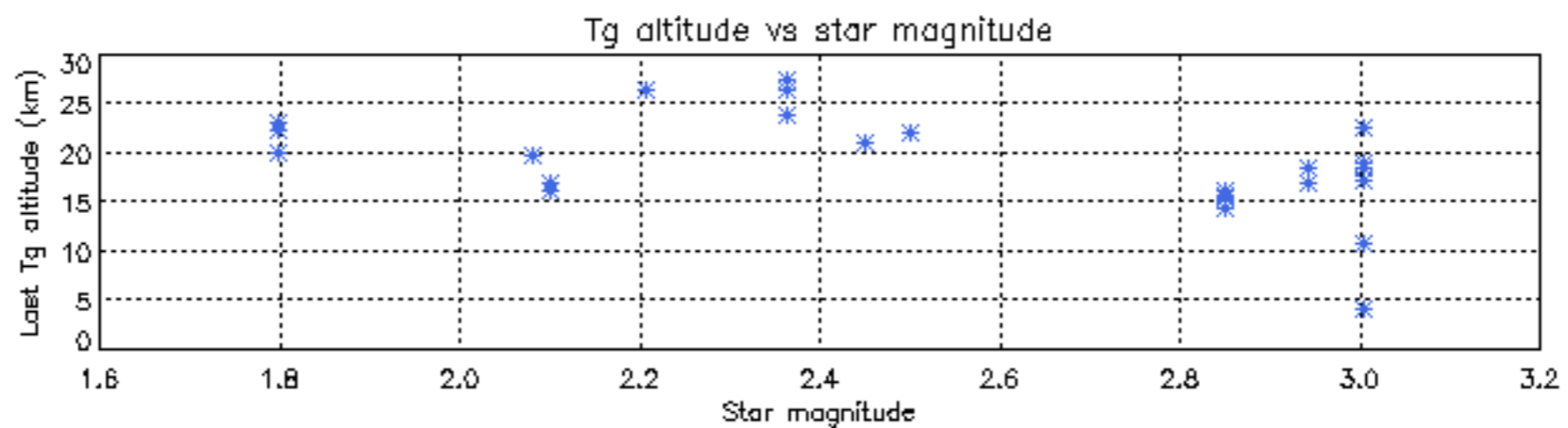
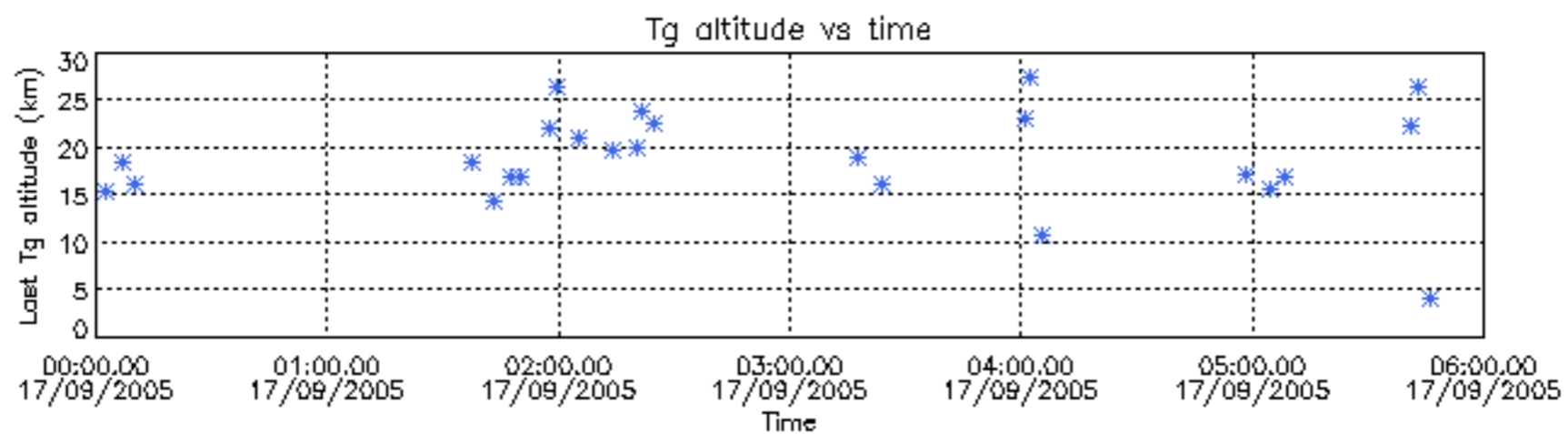
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

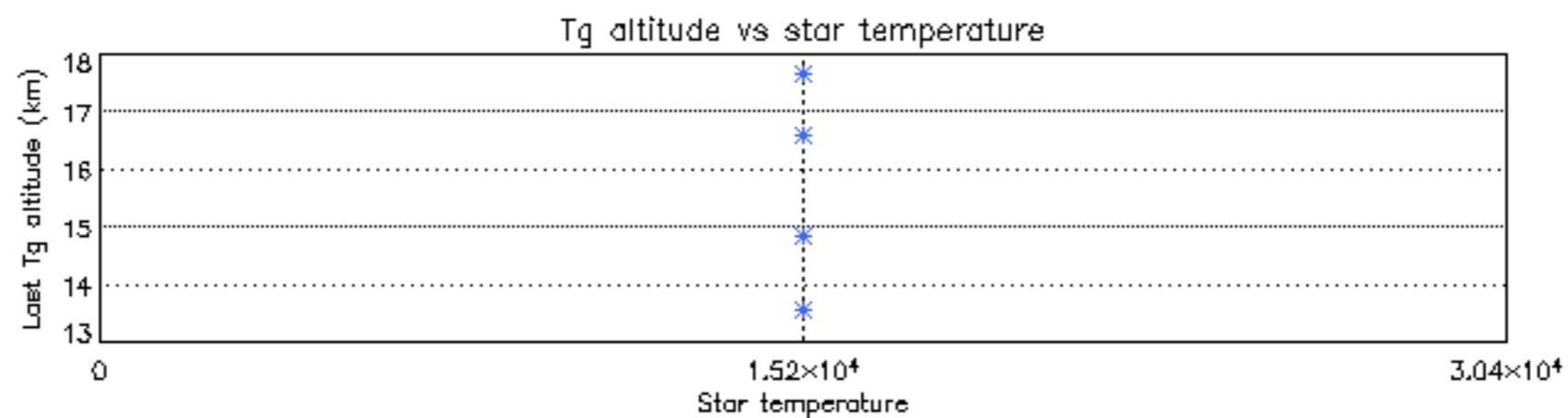
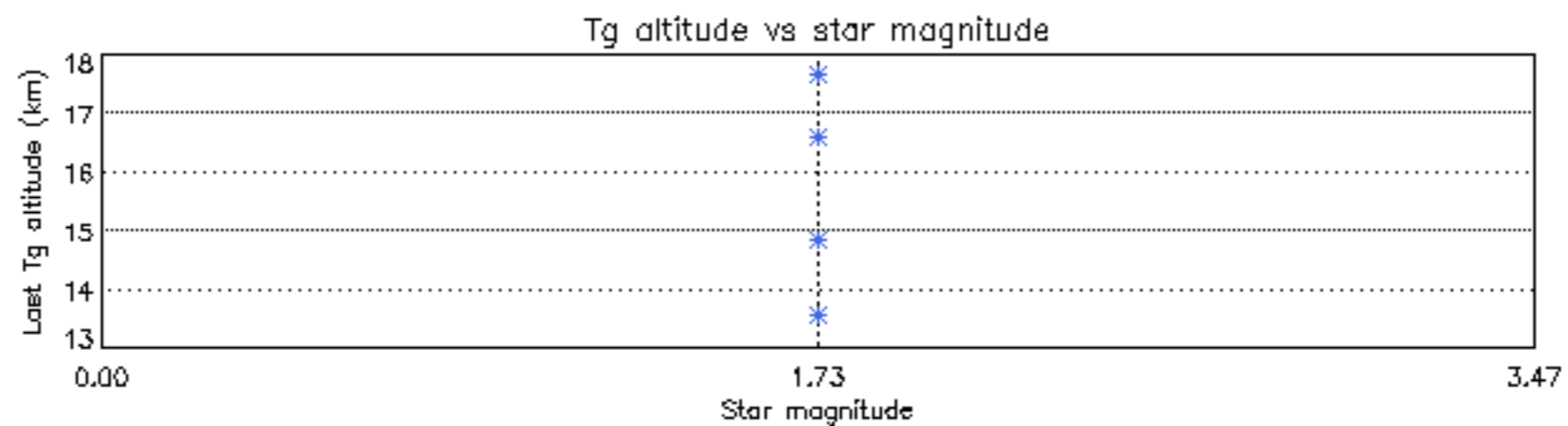
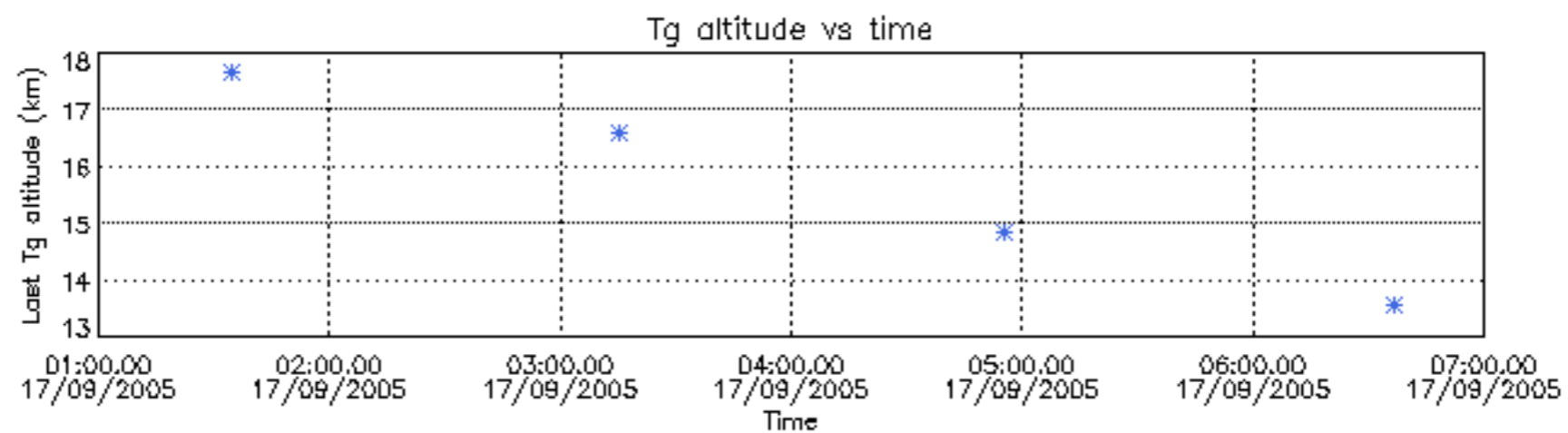


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



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