

# GOMOS Daily Report 21-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	23SEP2005 05:02:25

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (21SEP2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (22SEP2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

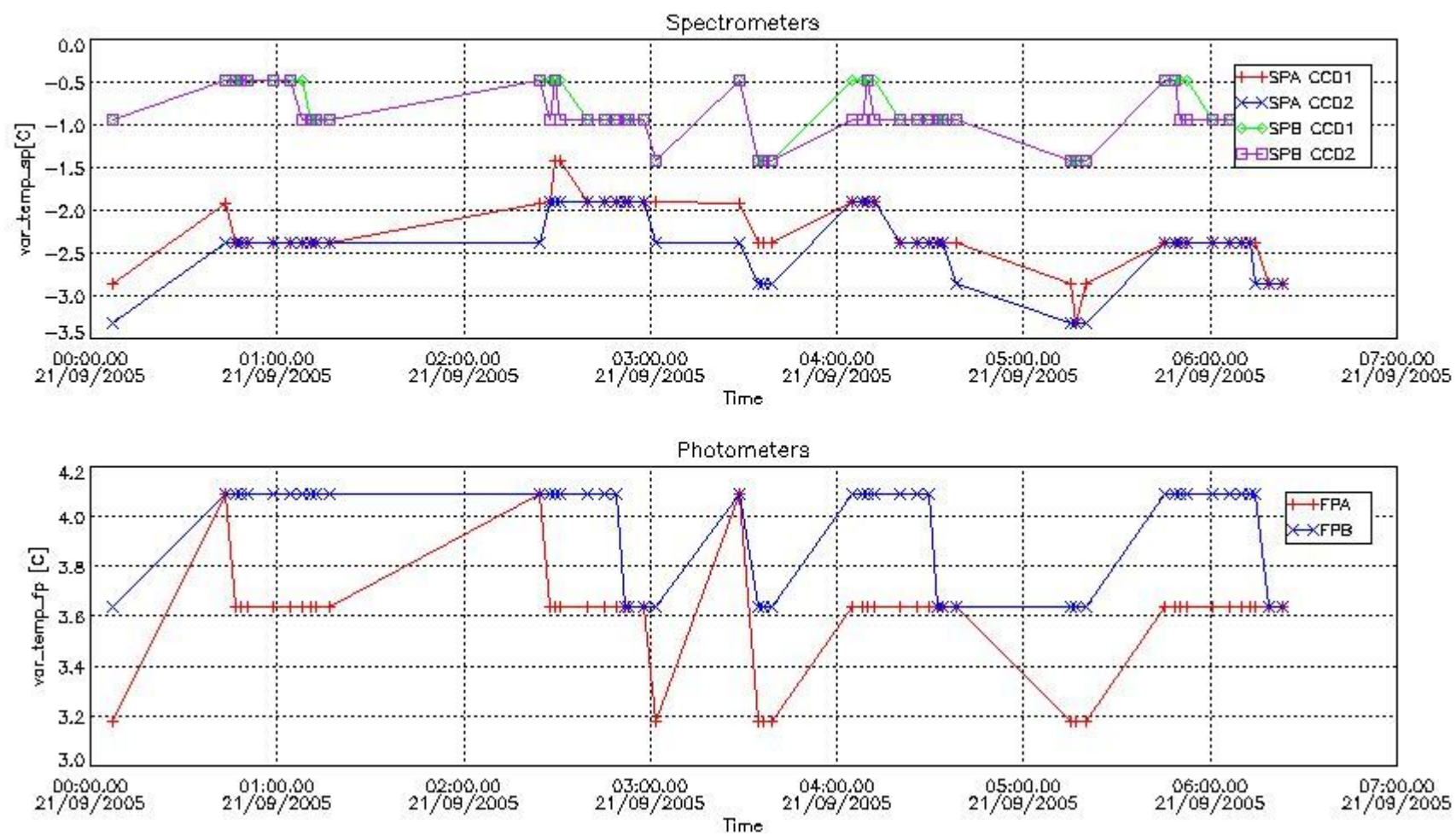
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20050921_000710_000000352041_00016_18607_0015.N1	21-SEP-2005 00:07:10	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	18607	No
2	GOM_TRA_1PNPDE20050921_004338_000000422041_00016_18607_0000.N1	21-SEP-2005 00:43:38	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	18607	No
3	GOM_TRA_1PNPDE20050921_004656_000000412041_00016_18607_0001.N1	21-SEP-2005 00:46:56	Dark	41.000	46	Del Vel	1.9540	10600.	82	18607	No
4	GOM_TRA_1PNPDE20050921_004829_000000442041_00016_18607_0002.N1	21-SEP-2005 00:48:29	Dark	43.500	41	Eps Car	1.8600	4100.0	87	18607	No
5	GOM_TRA_1PNPDE20050921_005038_000000382041_00017_18608_0003.N1	21-SEP-2005 00:50:38	Dark	37.500	29	Bet Car	1.6720	10200.	75	18608	No
6	GOM_TRA_1PNPDE20050921_005859_000000372041_00017_18608_0004.N1	21-SEP-2005 00:58:59	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	18608	No
7	GOM_TRA_1PNPDE20050921_010429_000000402041_00017_18608_0005.N1	21-SEP-2005 01:04:29	Dark	39.500	148	Alp Tuc	2.8780	4100.0	79	18608	No
8	GOM_TRA_1PNPDE20050921_010814_000000382041_00017_18608_0006.N1	21-SEP-2005 01:08:14	Twilight	38.000	31	Alp Gru	1.7340	15200.	76	18608	No
9	GOM_TRA_1PNPDE20050921_011102_000000392041_00017_18608_0007.N1	21-SEP-2005 01:11:02	Bright	38.500	172	Gam Gru	3.0030	13100.	77	18608	No
10	GOM_TRA_1PNPDE20050921_011231_000000422041_00017_18608_0008.N1	21-SEP-2005 01:12:31	Bright	41.500	18	24Alp PsA	1.1660	9700.0	83	18608	No
11	GOM_TRA_1PNPDE20050921_011701_000000382041_00017_18608_0009.N1	21-SEP-2005 01:17:01	Bright	38.000	142	49Del Cap	2.8500	8900.0	76	18608	No
12	GOM_TRA_1PNPDE20050921_022414_000000422041_00017_18608_0000.N1	21-SEP-2005 02:24:14	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	18608	No
13	GOM_TRA_1PNPDE20050921_022732_000000372041_00017_18608_0001.N1	21-SEP-2005 02:27:32	Dark	37.000	46	Del Vel	1.9540	10600.	74	18608	No
14	GOM_TRA_1PNPDE20050921_022906_000000472041_00017_18608_0002.N1	21-SEP-2005 02:29:06	Dark	46.500	41	Eps Car	1.8600	4100.0	93	18608	No
15	GOM_TRA_1PNPDE20050921_023114_000000372041_00018_18609_0003.N1	21-SEP-2005 02:31:14	Dark	37.000	29	Bet Car	1.6720	10200.	74	18609	No
16	GOM_TRA_1PNPDE20050921_023936_000000382041_00018_18609_0004.N1	21-SEP-2005 02:39:36	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	18609	No
17	GOM_TRA_1PNPDE20050921_024505_000000382041_00018_18609_0005.N1	21-SEP-2005 02:45:05	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	18609	No
18	GOM_TRA_1PNPDE20050921_024850_000000382041_00018_18609_0006.N1	21-SEP-2005 02:48:50	Twilight	37.500	31	Alp Gru	1.7340	15200.	75	18609	No
19	GOM_TRA_1PNPDE20050921_025138_000000372041_00018_18609_0007.N1	21-SEP-2005 02:51:38	Bright	36.500	172	Gam Gru	3.0030	13100.	73	18609	No
20	GOM_TRA_1PNPDE20050921_025307_000000442041_00018_18609_0008.N1	21-SEP-2005 02:53:07	Bright	43.500	18	24Alp PsA	1.1660	9700.0	87	18609	No
21	GOM_TRA_1PNPDE20050921_025737_000000412041_00018_18609_0009.N1	21-SEP-2005 02:57:37	Bright	40.500	142	49Del Cap	2.8500	8900.0	81	18609	No
22	GOM_TRA_1PNPDE20050921_030147_000000372041_00018_18609_0010.N1	21-SEP-2005 03:01:47	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	18609	No
23	GOM_TRA_1PNPDE20050921_032822_000000332041_00018_18609_0000.N1	21-SEP-2005 03:28:22	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	18609	Yes
24	GOM_TRA_1PNPDE20050921_033437_000000372041_00018_18609_0001.N1	21-SEP-2005 03:34:37	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	18609	No
25	GOM_TRA_1PNPDE20050921_033605_000000352041_00018_18609_0002.N1	21-SEP-2005 03:36:05	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	18609	No
26	GOM_TRA_1PNPDE20050921_033912_000000352041_00018_18609_0003.N1	21-SEP-2005 03:39:12	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	18609	No
27	GOM_TRA_1PNPDE20050921_040450_000000412041_00018_18609_0004.N1	21-SEP-2005 04:04:50	Dark	40.500	65	Lam Vel	2.2040	4400.0	81	18609	No
28	GOM_TRA_1PNPDE20050921_040808_000000422041_00018_18609_0005.N1	21-SEP-2005 04:08:08	Dark	41.500	46	Del Vel	1.9540	10600.	83	18609	No
29	GOM_TRA_1PNPDE20050921_040942_000000462041_00018_18609_0006.N1	21-SEP-2005 04:09:42	Dark	46.000	41	Eps Car	1.8600	4100.0	92	18609	No
30	GOM_TRA_1PNPDE20050921_041150_000000402041_00019_18610_0007.N1	21-SEP-2005 04:11:50	Dark	39.500	29	Bet Car	1.6720	10200.	79	18610	No
31	GOM_TRA_1PNPDE20050921_042012_000000362041_00019_18610_0008.N1	21-SEP-2005 04:20:12	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	18610	No
32	GOM_TRA_1PNPDE20050921_042541_000000392041_00019_18610_0009.N1	21-SEP-2005 04:25:41	Dark	38.500	148	Alp Tuc	2.8780	4100.0	77	18610	No
33	GOM_TRA_1PNPDE20050921_042926_000000362041_00019_18610_0010.N1	21-SEP-2005 04:29:26	Twilight	36.000	31	Alp Gru	1.7340	15200.	72	18610	No
34	GOM_TRA_1PNPDE20050921_043214_000000372041_00019_18610_0011.N1	21-SEP-2005 04:32:14	Bright	37.000	172	Gam Gru	3.0030	13100.	74	18610	No
35	GOM_TRA_1PNPDE20050921_043343_000000442041_00019_18610_0012.N1	21-SEP-2005 04:33:43	Bright	43.500	18	24Alp PsA	1.1660	9700.0	87	18610	No
36	GOM_TRA_1PNPDE20050921_043813_000000402041_00019_18610_0013.N1	21-SEP-2005 04:38:13	Bright	39.500	142	49Del Cap	2.8500	8900.0	79	18610	No
37	GOM_TRA_1PNPDE20050921_051513_000000372041_00019_18610_0000.N1	21-SEP-2005 05:15:13	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	18610	No
38	GOM_TRA_1PNPDE20050921_051641_000000522041_00019_18610_0001.N1	21-SEP-2005 05:16:41	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	18610	No
39	GOM_TRA_1PNPDE20050921_051949_000000342041_00019_18610_0002.N1	21-SEP-2005 05:19:49	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	18610	No
40	GOM_TRA_1PNPDE20050921_054526_000000442041_00019_18610_0003.N1	21-SEP-2005 05:45:26	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	18610	No
41	GOM_TRA_1PNPDE20050921_054844_000000402041_00019_18610_0004.N1	21-SEP-2005 05:48:44	Dark	39.500	46	Del Vel	1.9540	10600.	79	18610	No
42	GOM_TRA_1PNPDE20050921_055018_000000502041_00019_18610_0005.N1	21-SEP-2005 05:50:18	Dark	49.500	41	Eps Car	1.8600	4100.0	99	18610	No
43	GOM_TRA_1PNPDE20050921_055226_000000392041_00020_18611_0006.N1	21-SEP-2005 05:52:26	Dark	39.000	29	Bet Car	1.6720	10200.	78	18611	No
44	GOM_TRA_1PNPDE20050921_060048_000000382041_00020_18611_0007.N1	21-SEP-2005 06:00:48	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	18611	No
45	GOM_TRA_1PNPDE20050921_060617_000000442041_00020_18611_0008.N1	21-SEP-2005 06:06:17	Dark	43.500	148	Alp Tuc	2.8780	4100.0	87	18611	No
46	GOM_TRA_1PNPDE20050921_061003_000000412041_00020_18611_0009.N1	21-SEP-2005 06:10:03	Twilight	41.000	31	Alp Gru	1.7340	15200.	82	18611	No

47	GOM_TRA_1PNPDE20050921_061250_000000372041_00020_18611_0010.N1	21-SEP-2005 06:12:50	Bright	37.000	172	Gam Gru	3.0030	13100.	74	18611	No
48	GOM_TRA_1PNPDE20050921_061419_000000442041_00020_18611_0011.N1	21-SEP-2005 06:14:19	Bright	44.000	18	24Alp PsA	1.1660	9700.0	88	18611	No
49	GOM_TRA_1PNPDE20050921_061849_000000392041_00020_18611_0012.N1	21-SEP-2005 06:18:49	Bright	39.000	142	49Del Cap	2.8500	8900.0	78	18611	No
50	GOM_TRA_1PNPDE20050921_062259_000000372041_00020_18611_0013.N1	21-SEP-2005 06:22:59	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	18611	No

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



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

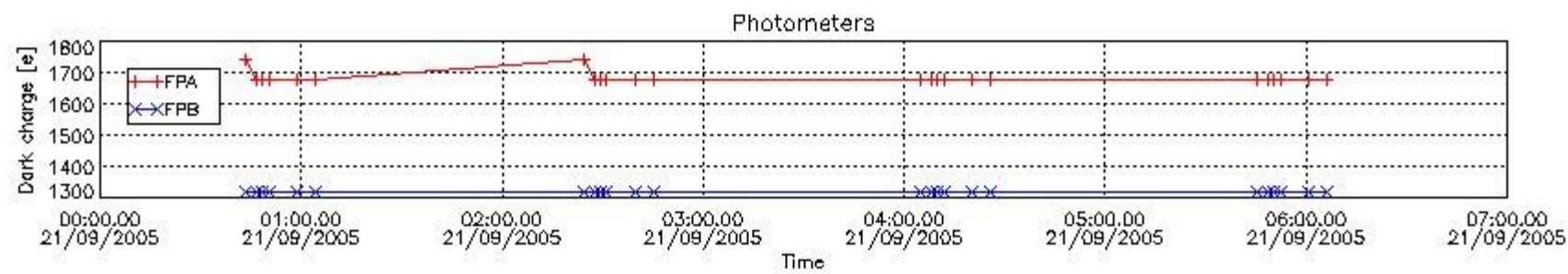
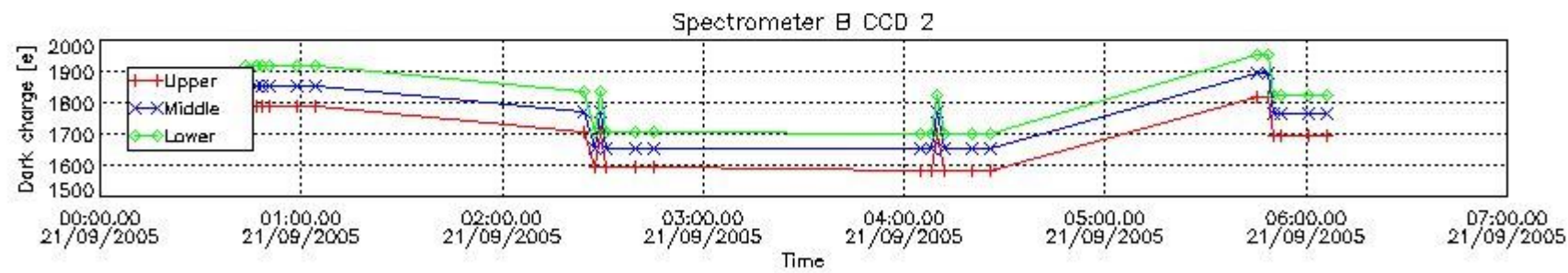
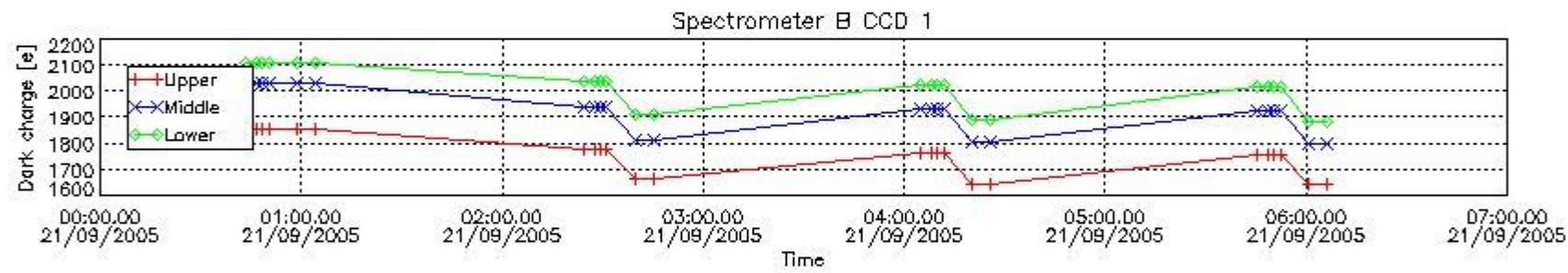
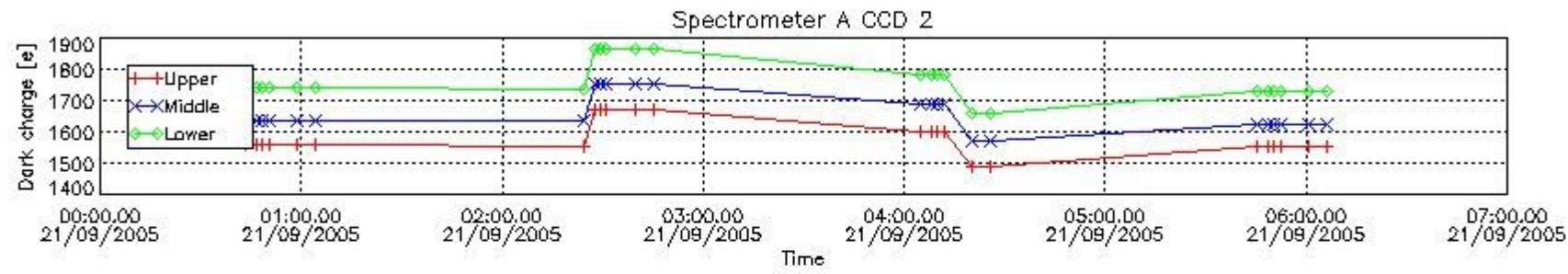
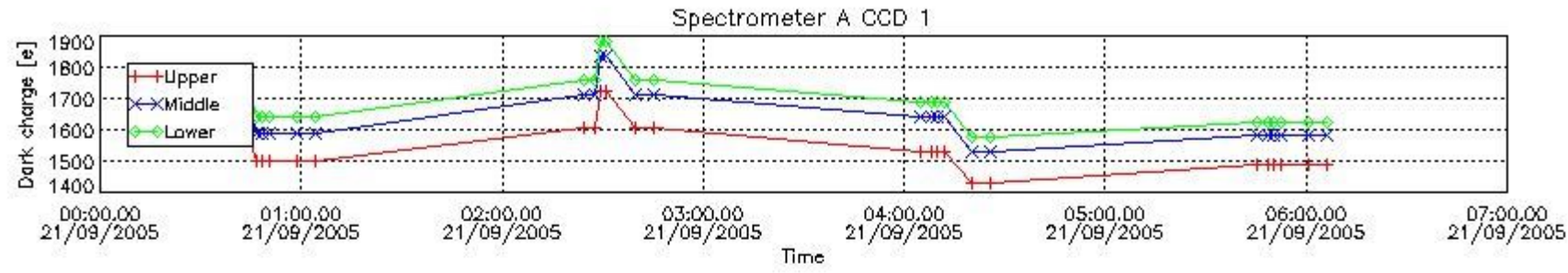
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





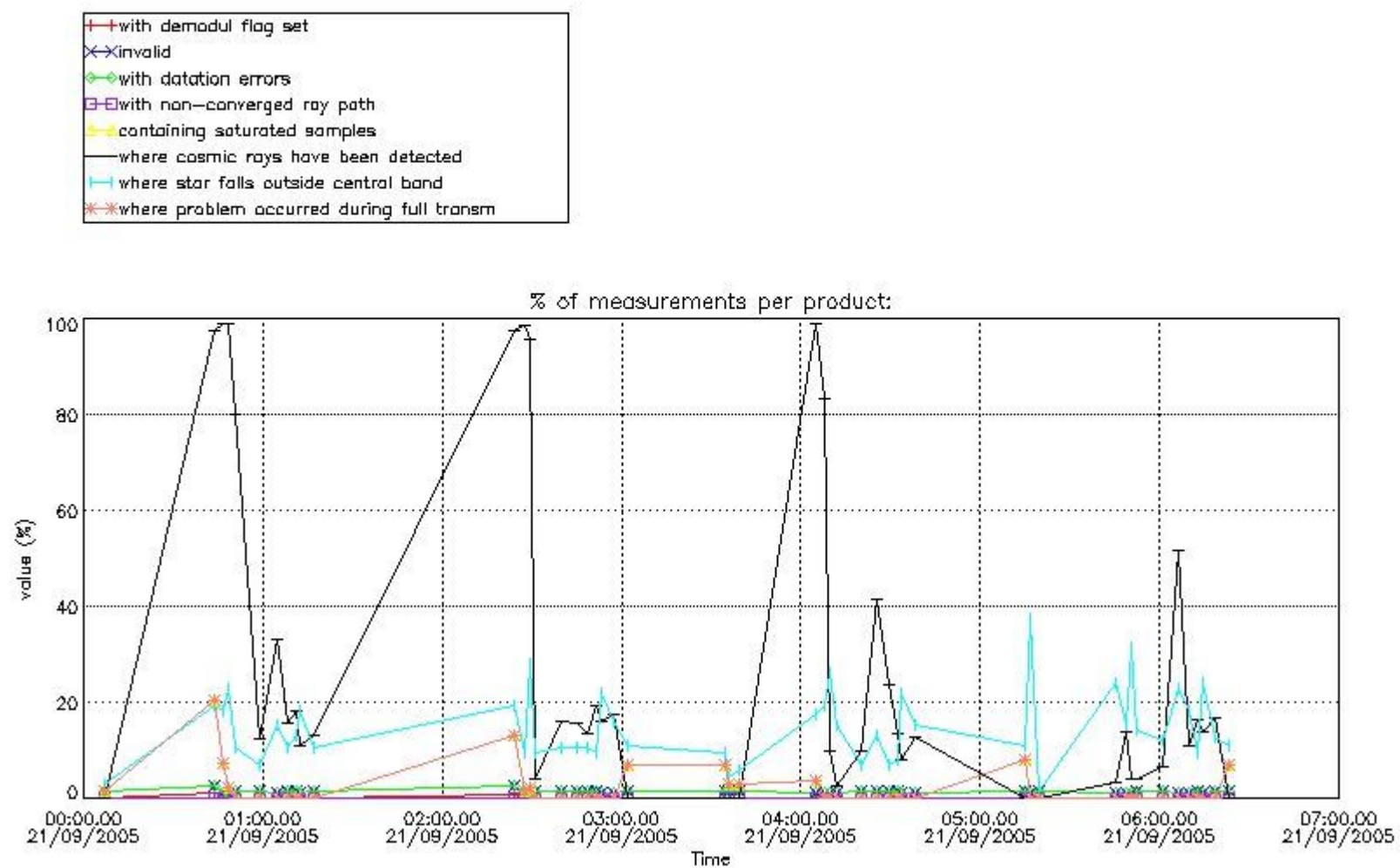
## 5. Demodulation flag and quality information monitoring

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:

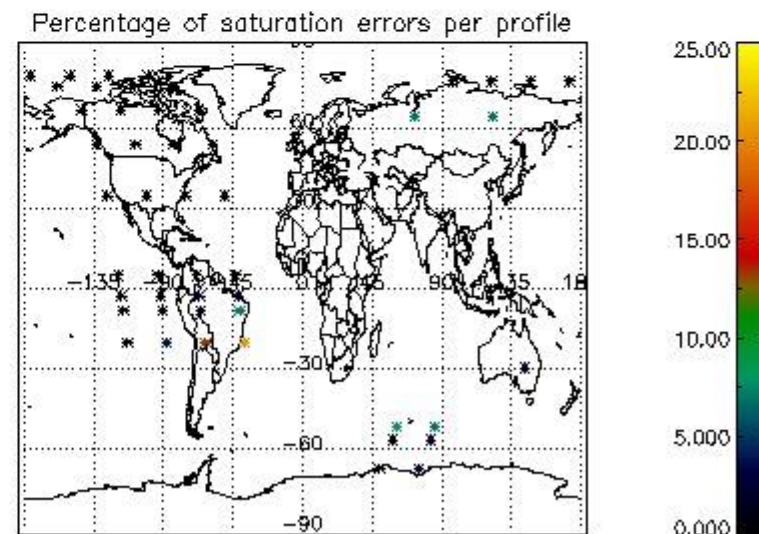
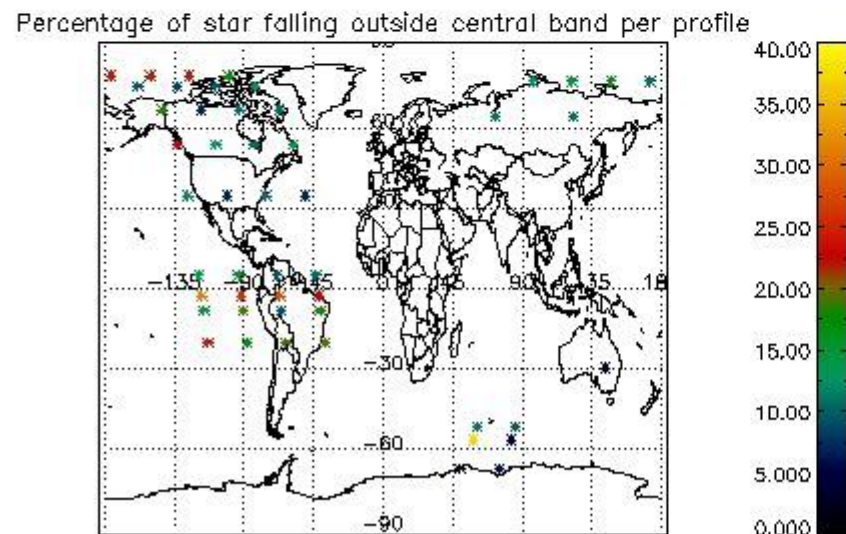
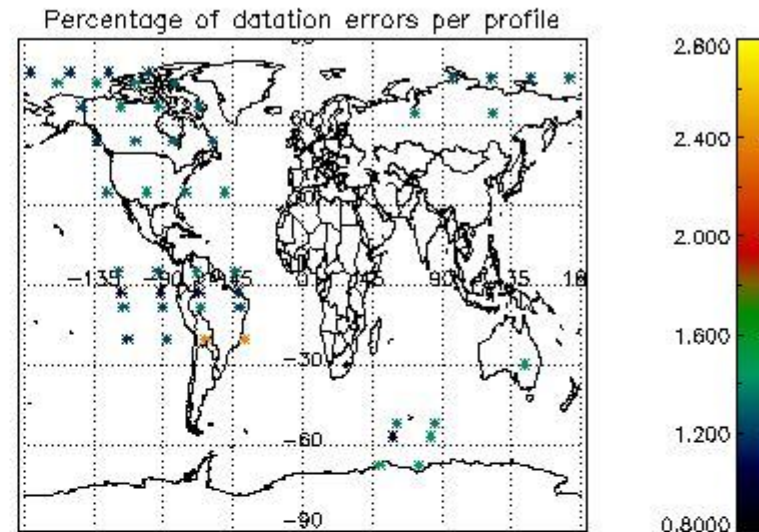
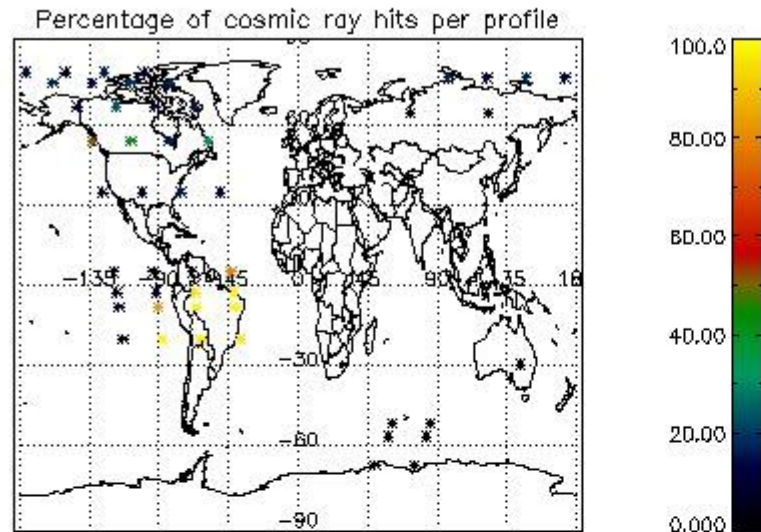
At least one measurement with demodulation flag set:	16.3265 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





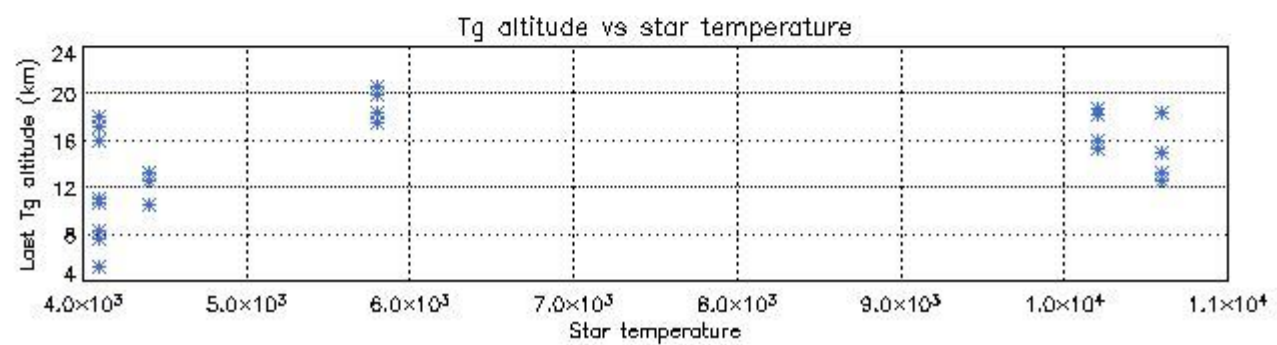
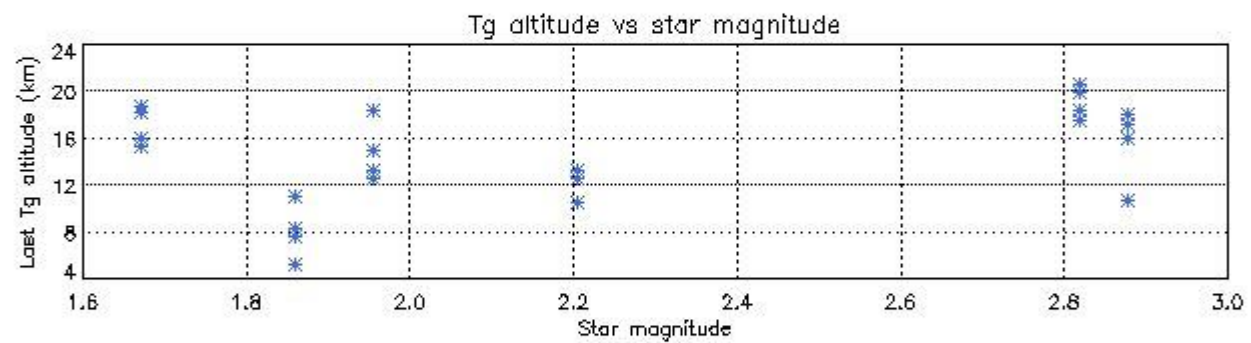
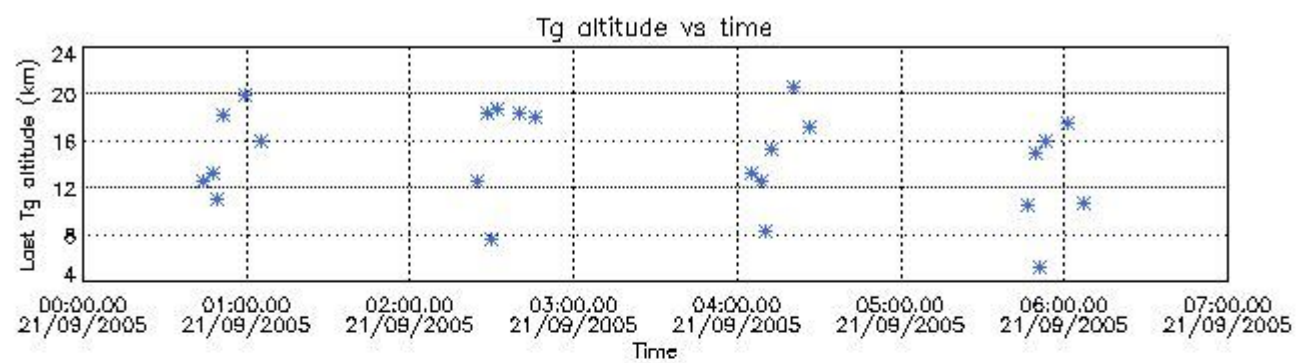
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.443	16.648	17.527
St. deviation:	4.1144	5.1333	2.8378
Maximum:	20.541	25.856	20.601
Minimum:	5.2228	3.5530	13.755
Number of data:	24.000	21.000	4.0000

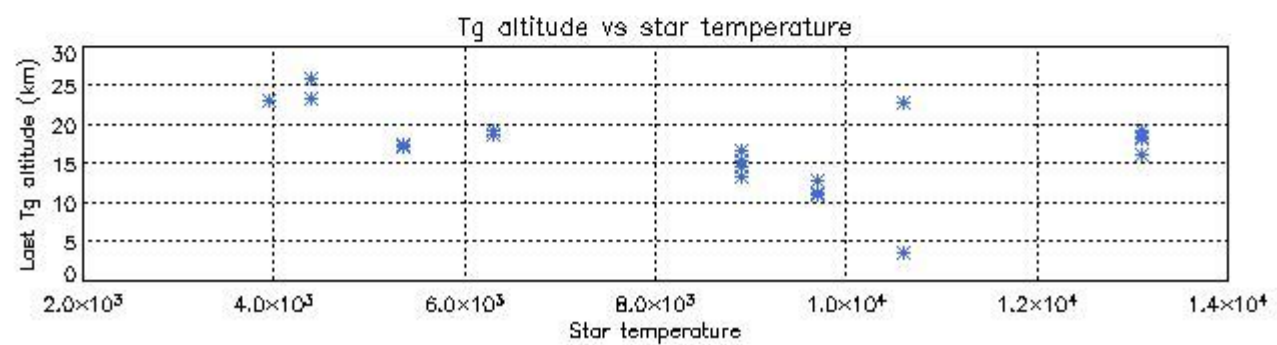
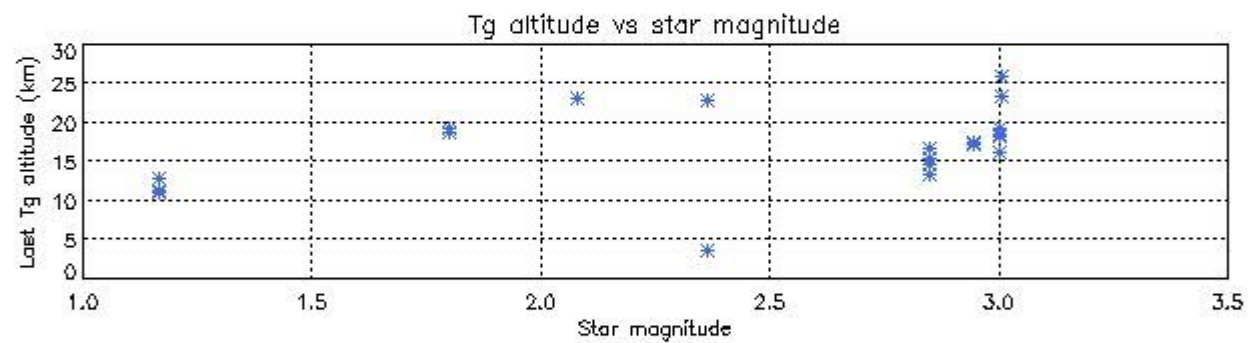
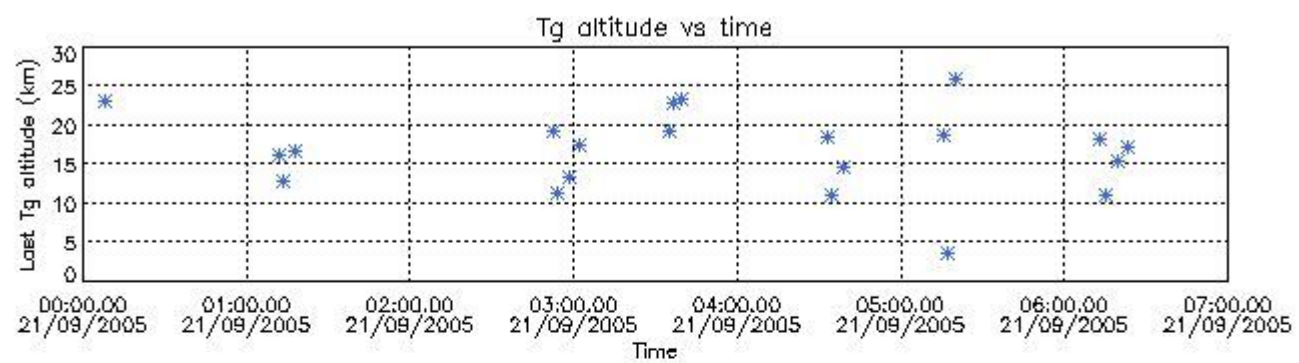
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

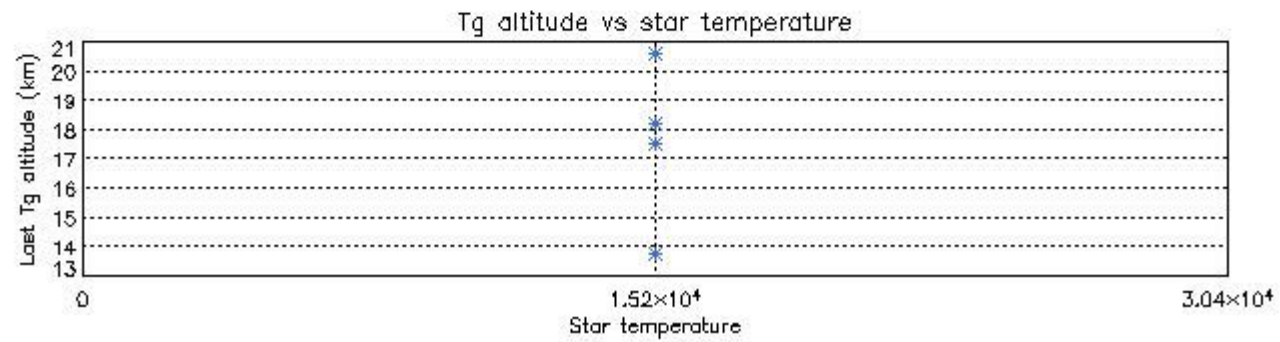
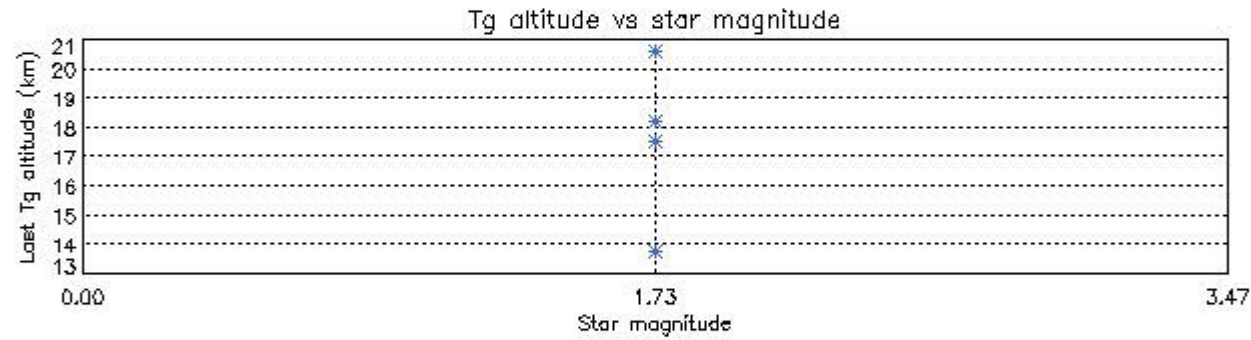
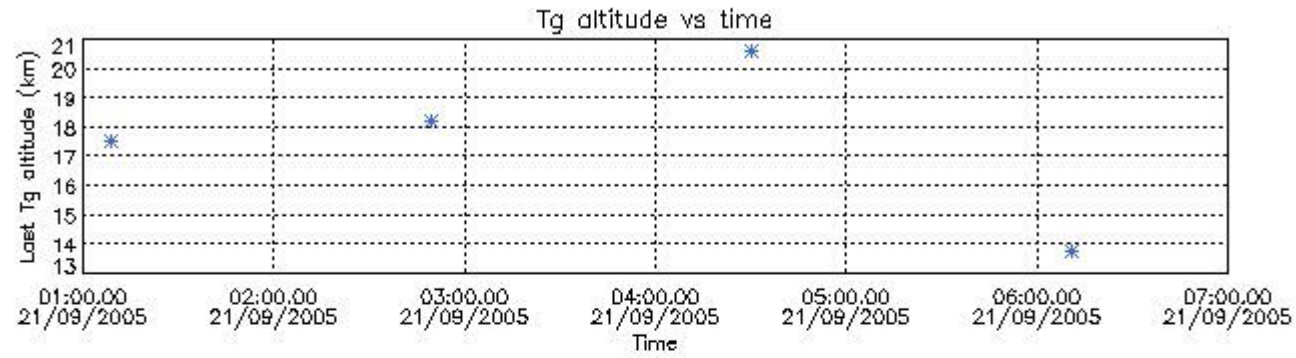
Tangent altitude at which the star is lost



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

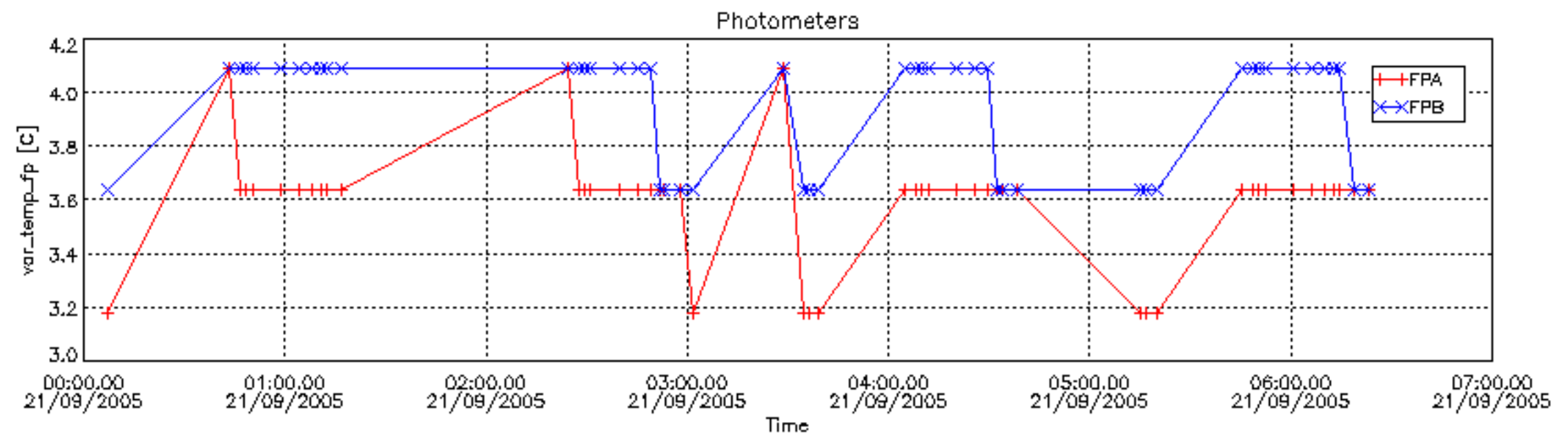
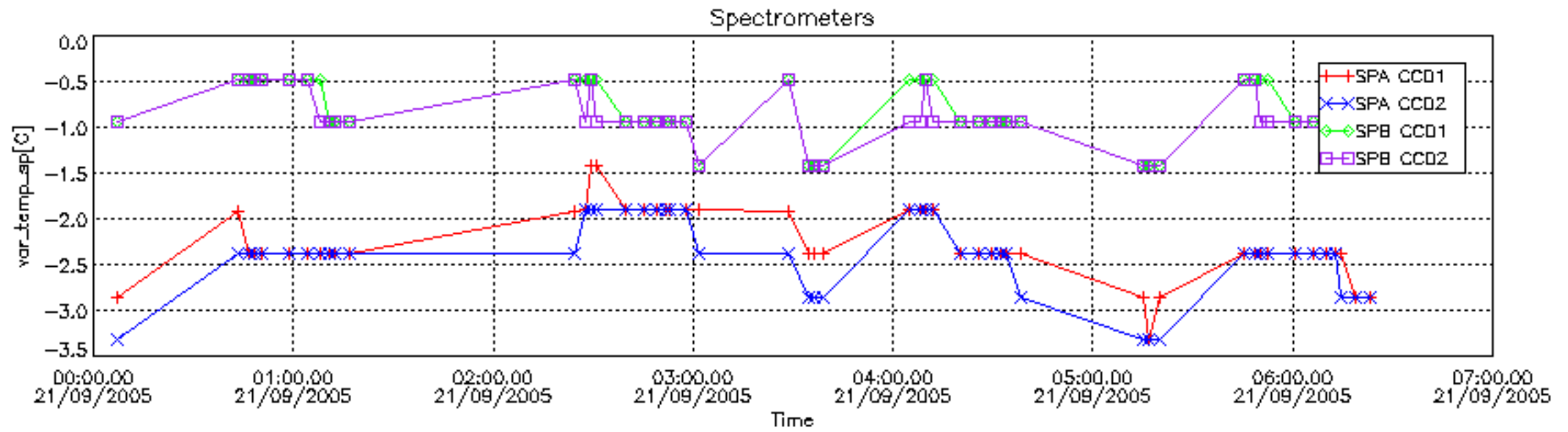
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1459.1	1445.1	1459.2	1445.8
St. deviation:	4.4515	9.9717	8.5065	16.222
Maximum:	1487.0	1481.0	1512.0	1515.0
Minimum:	1443.0	1414.0	1433.0	1403.0
Number of data:	20050.	20050.	17400.	17400.

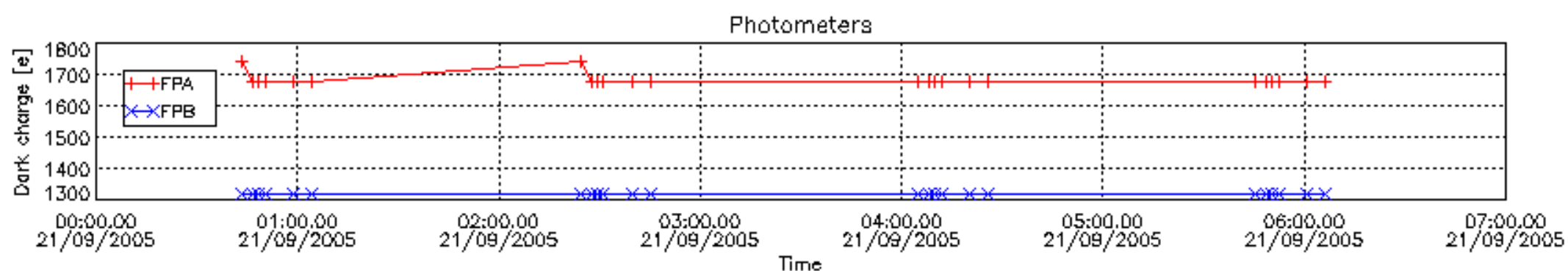
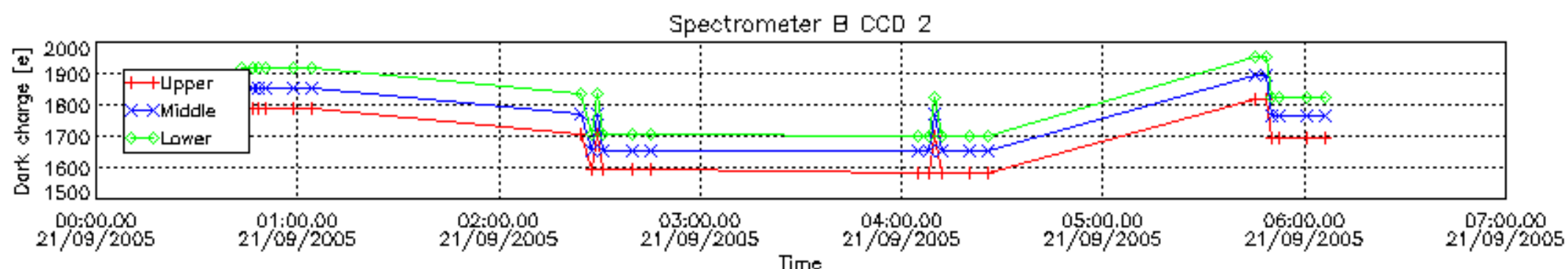
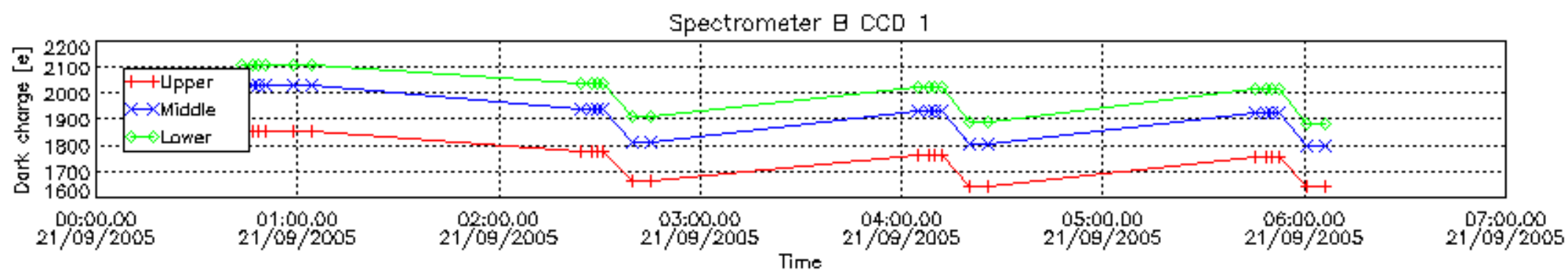
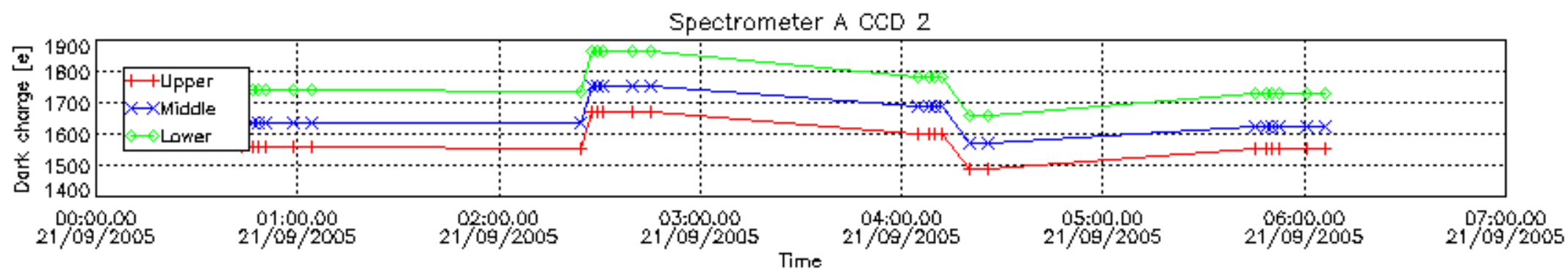
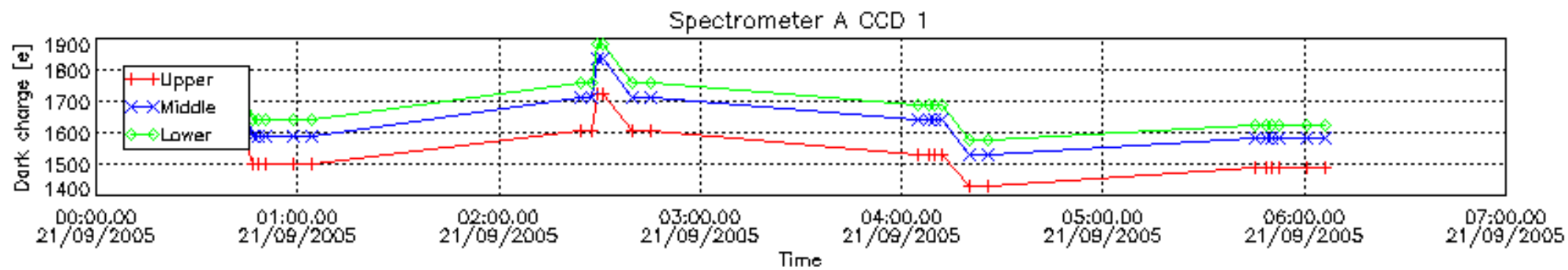
## 8. Auxiliary Data Files used for the production reported in section 2.2

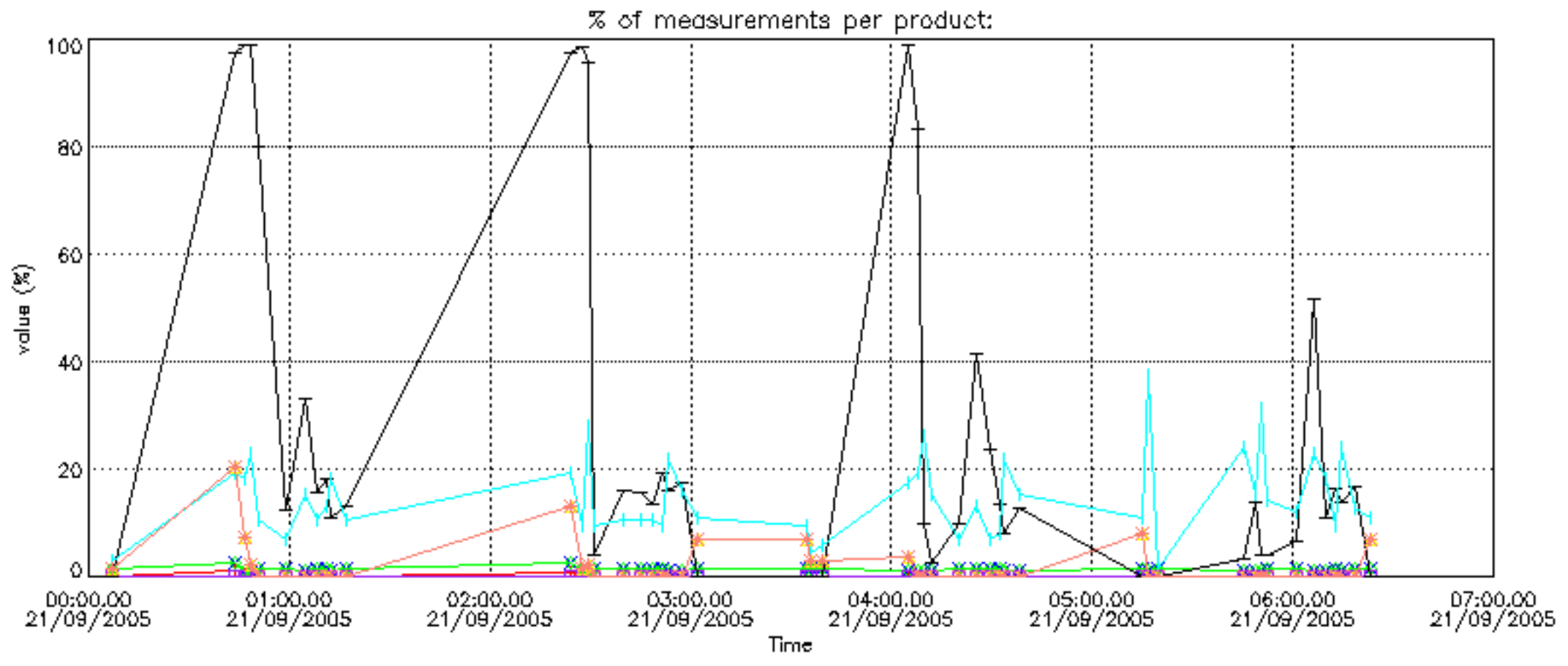
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	21-SEP-2005 00:07:10
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050919_104724_20050917_000000_20100101_000000	1	21-SEP-2005 00:07:10
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	21-SEP-2005 00:07:10
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-SEP-2005 00:07:10
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	21-SEP-2005 00:07:10
ECMWF_FILE	AUX_ECA_AXNECM20050921_070729_20050920_210000_20050921_090000	1	21-SEP-2005 00:07:10
ECMWF_FILE	AUX_ECF_AXNECM20050920_061116_20050920_210000_20050921_090000	2	21-SEP-2005 00:43:38
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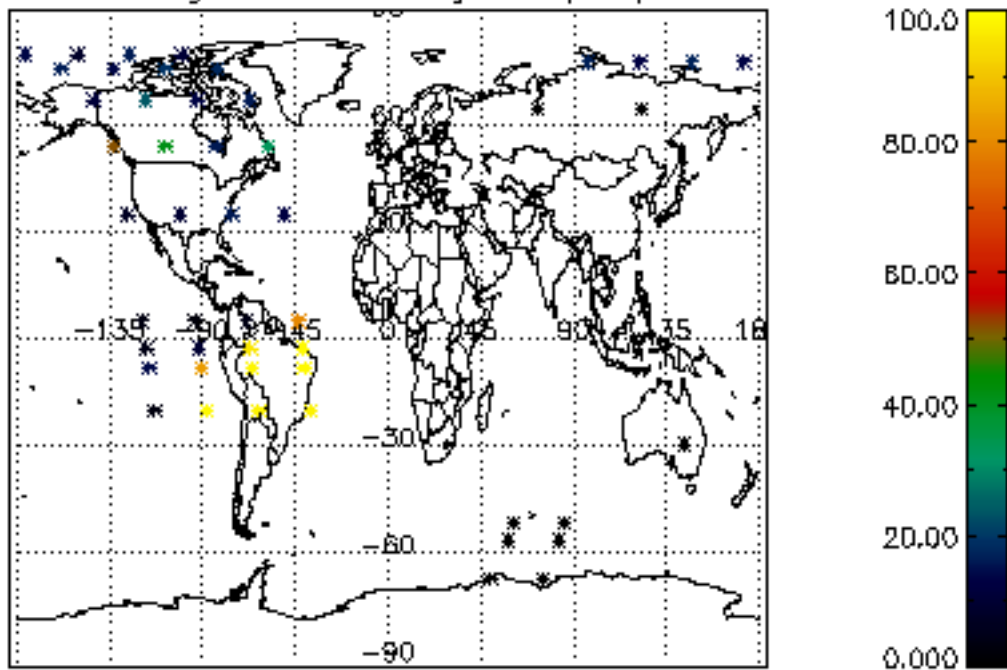




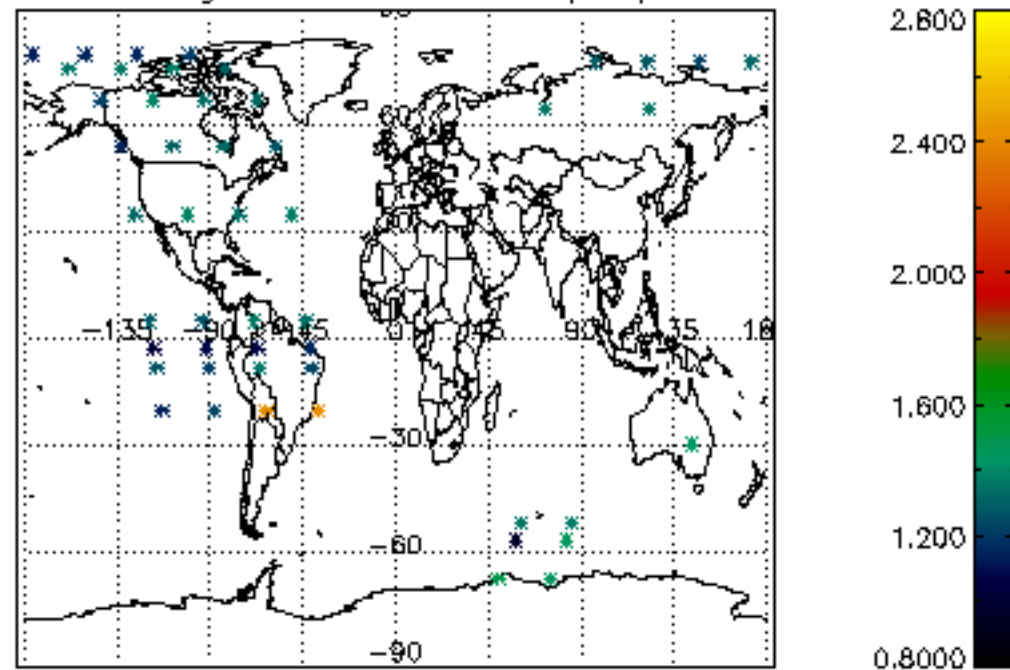




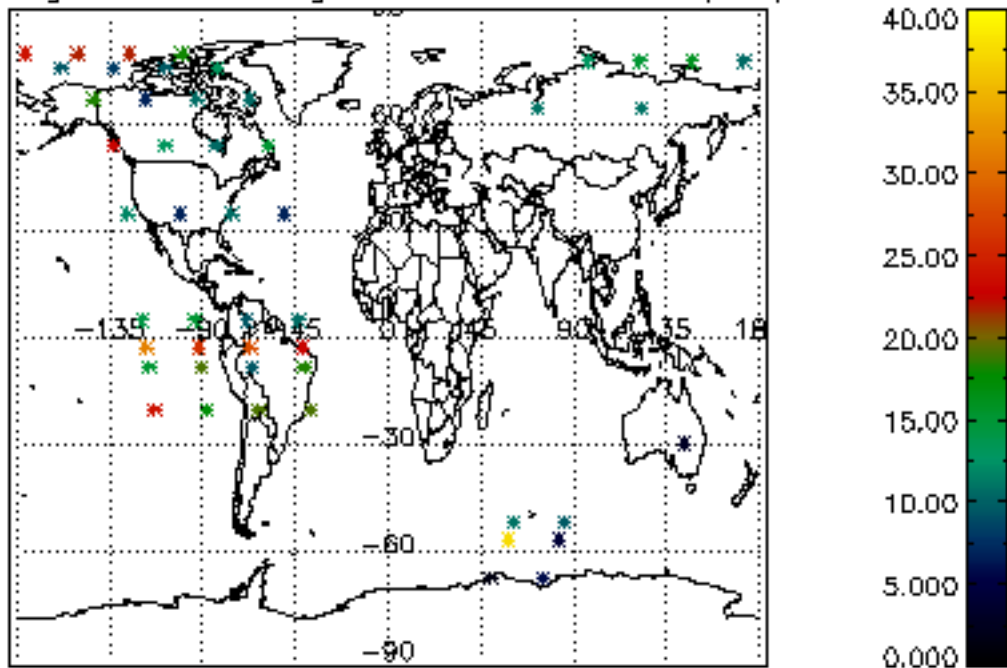
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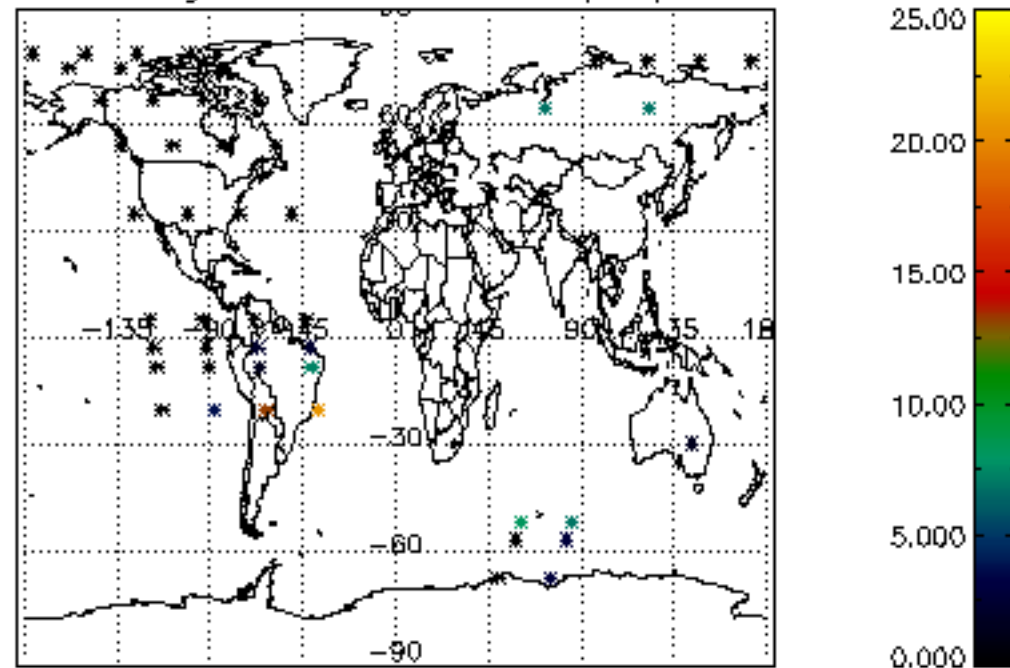
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

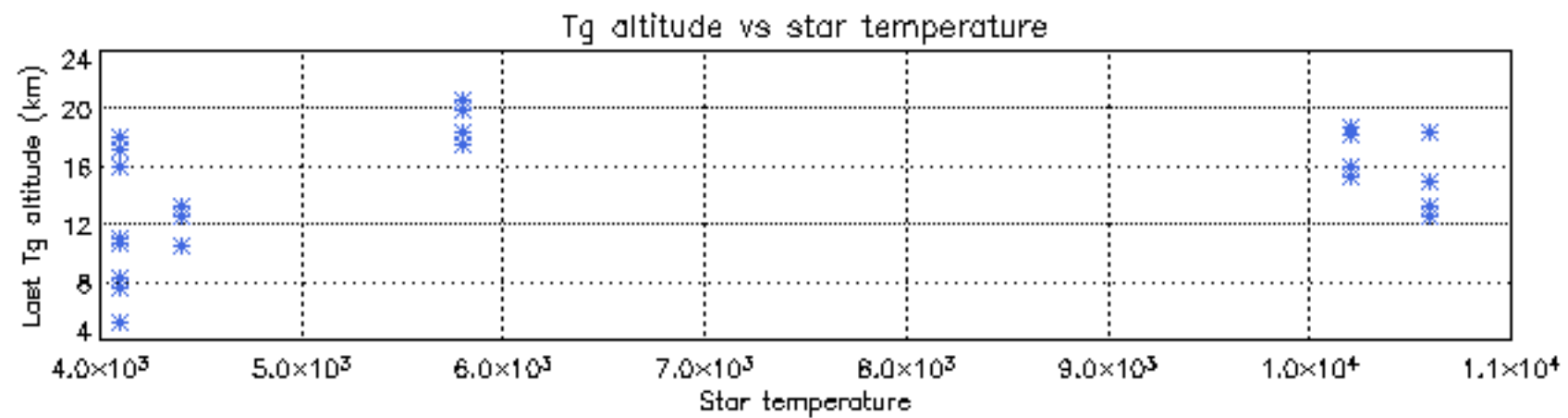
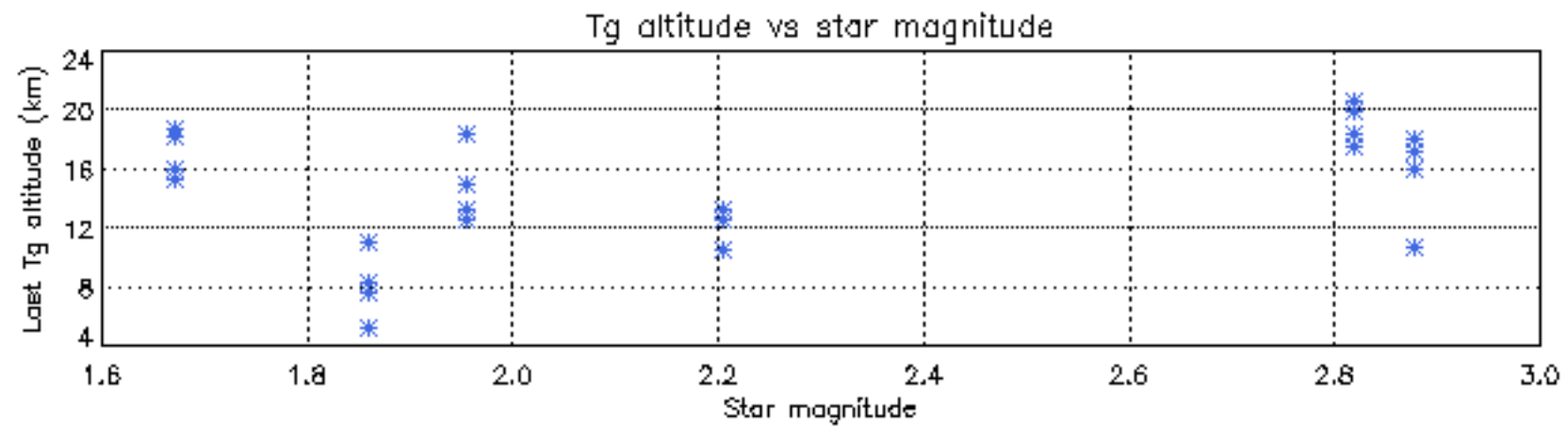
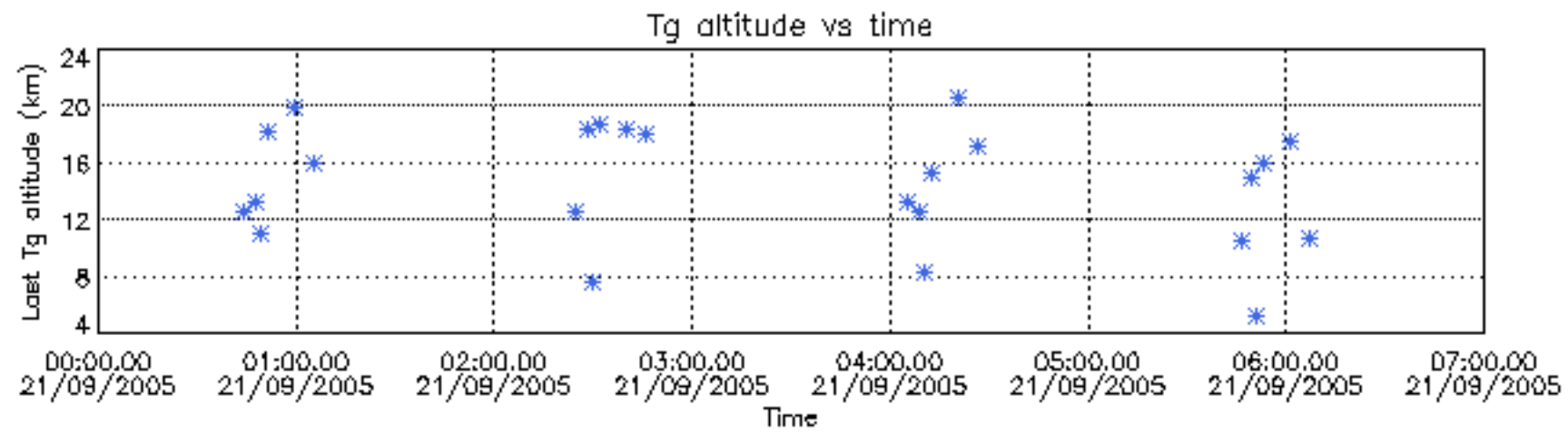


Percentage of saturation errors per profile

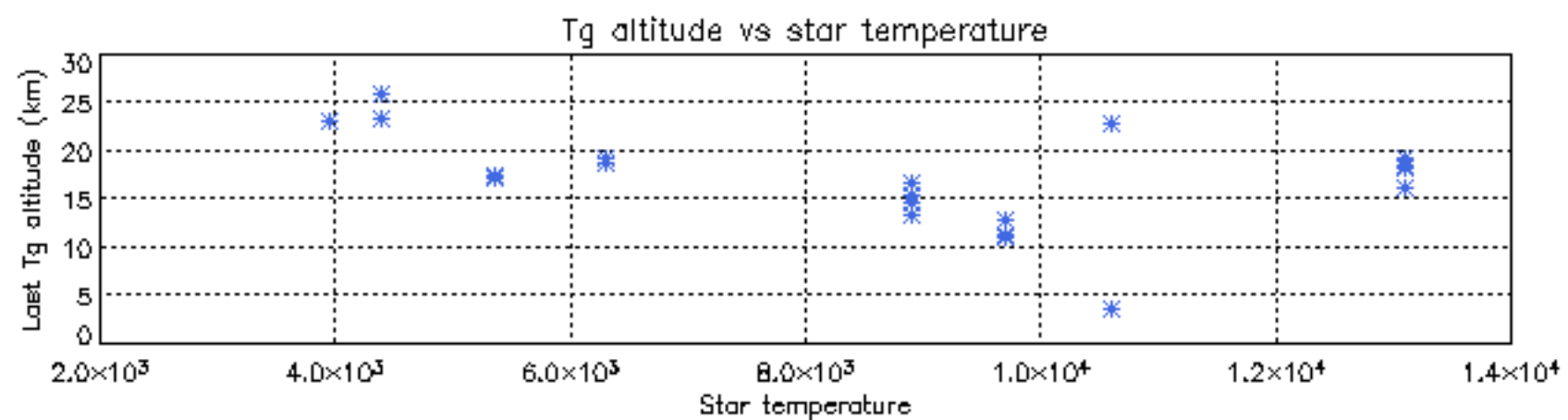
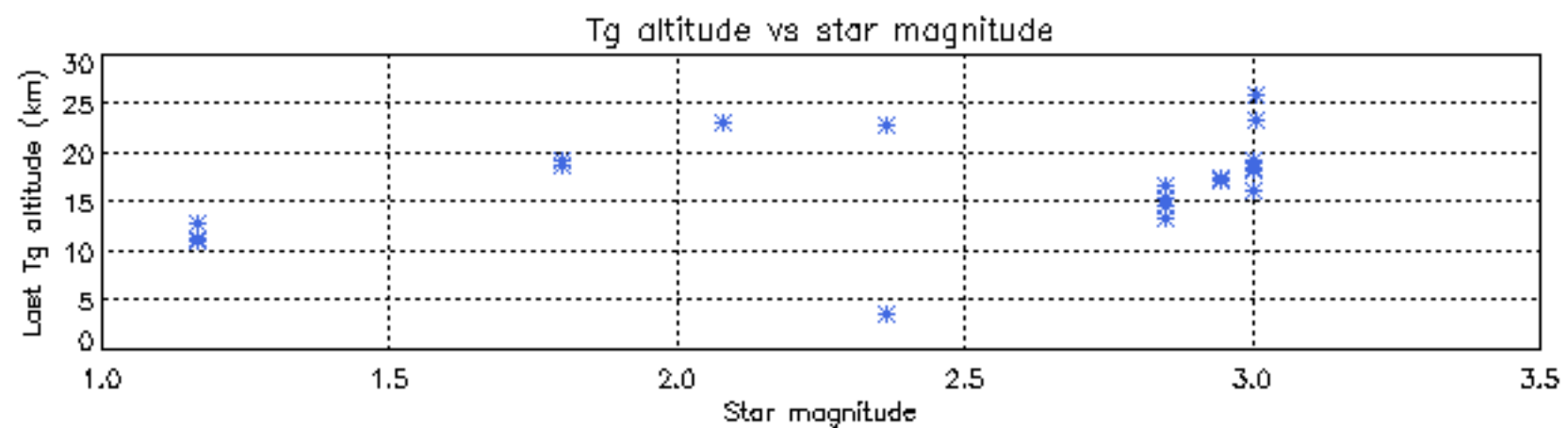
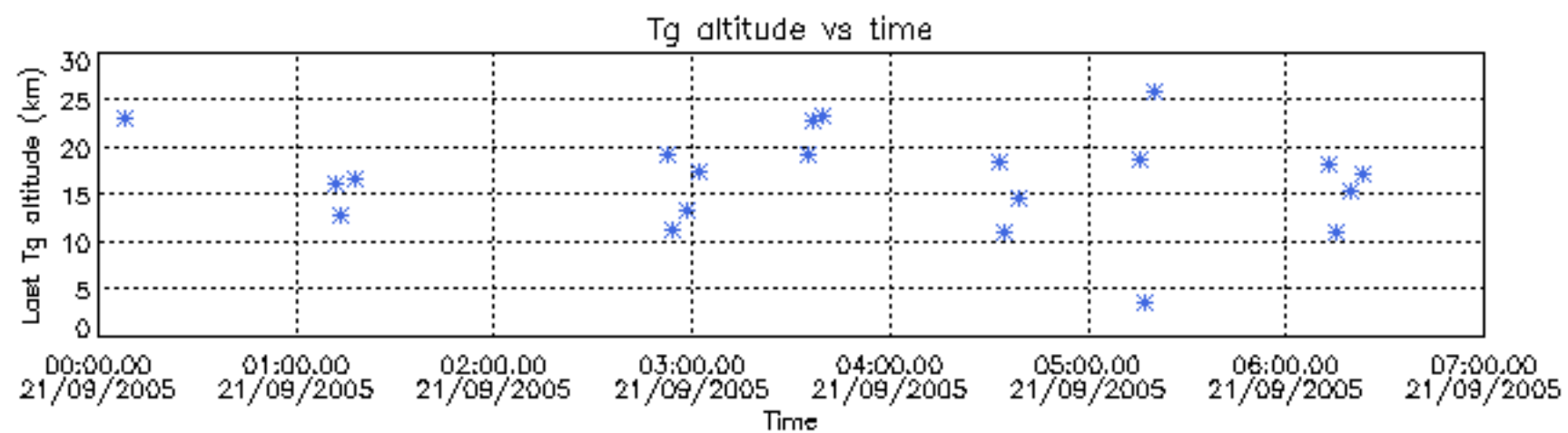




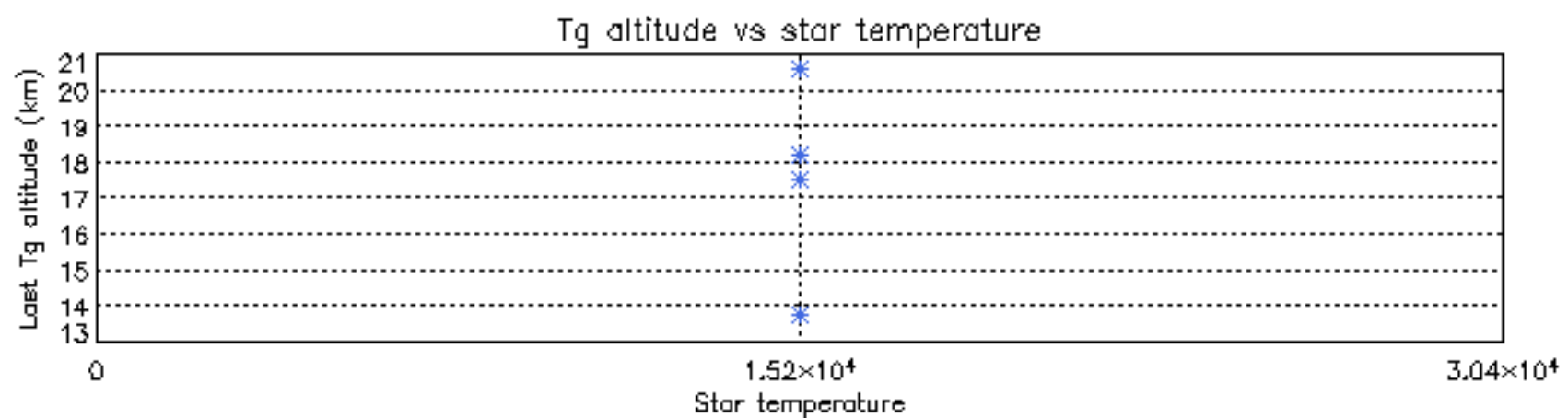
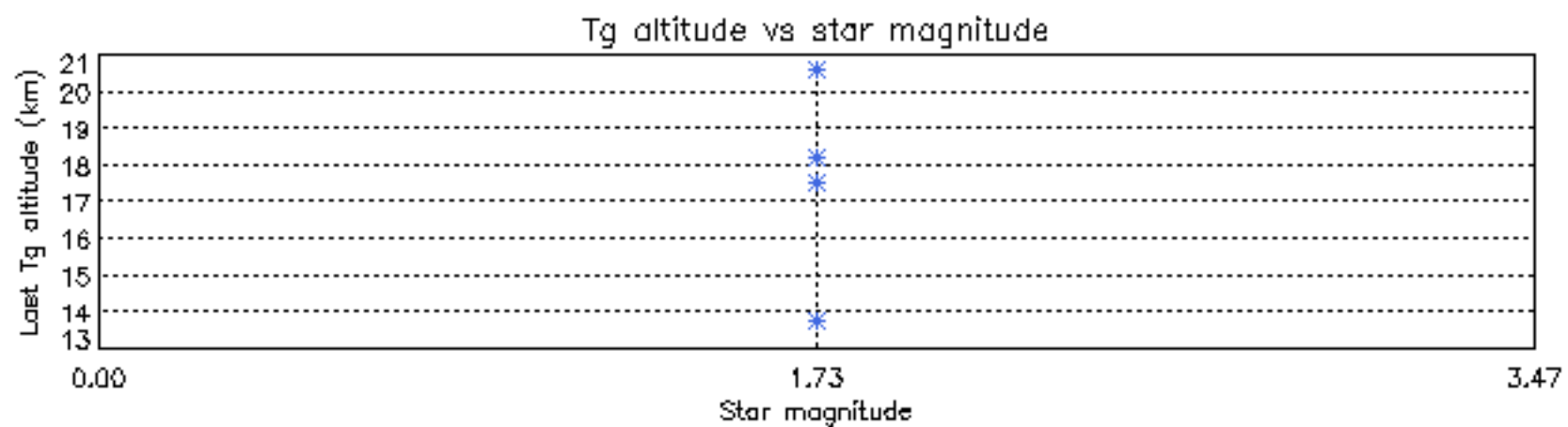
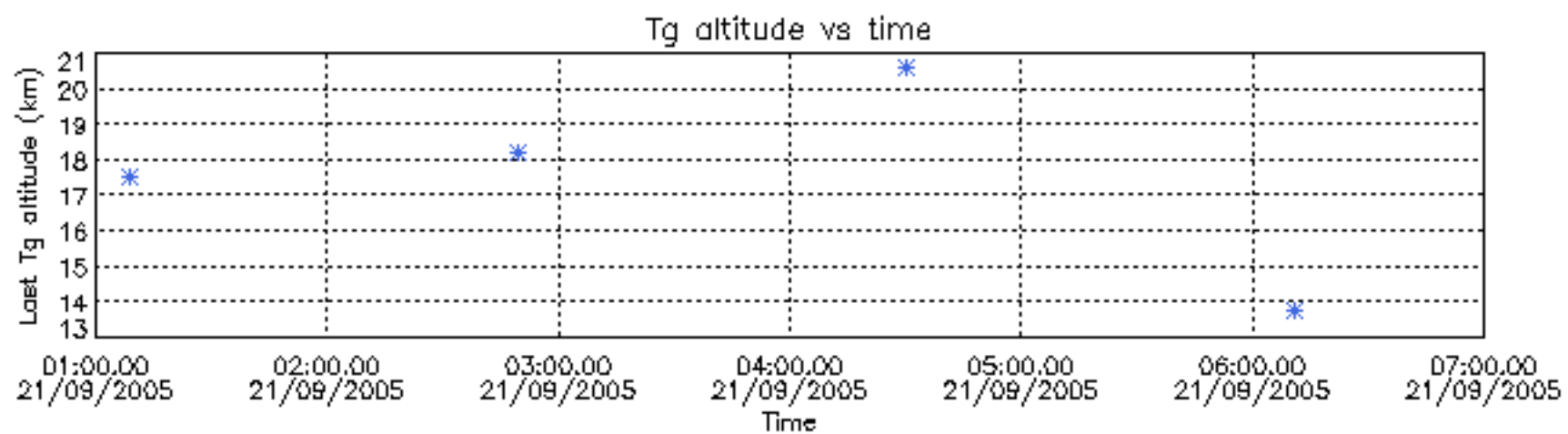
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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