

# GOMOS Daily Report 19-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	21SEP2005 05:01:31

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (19SEP2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20SEP2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	40
Nb of prods with errors	1

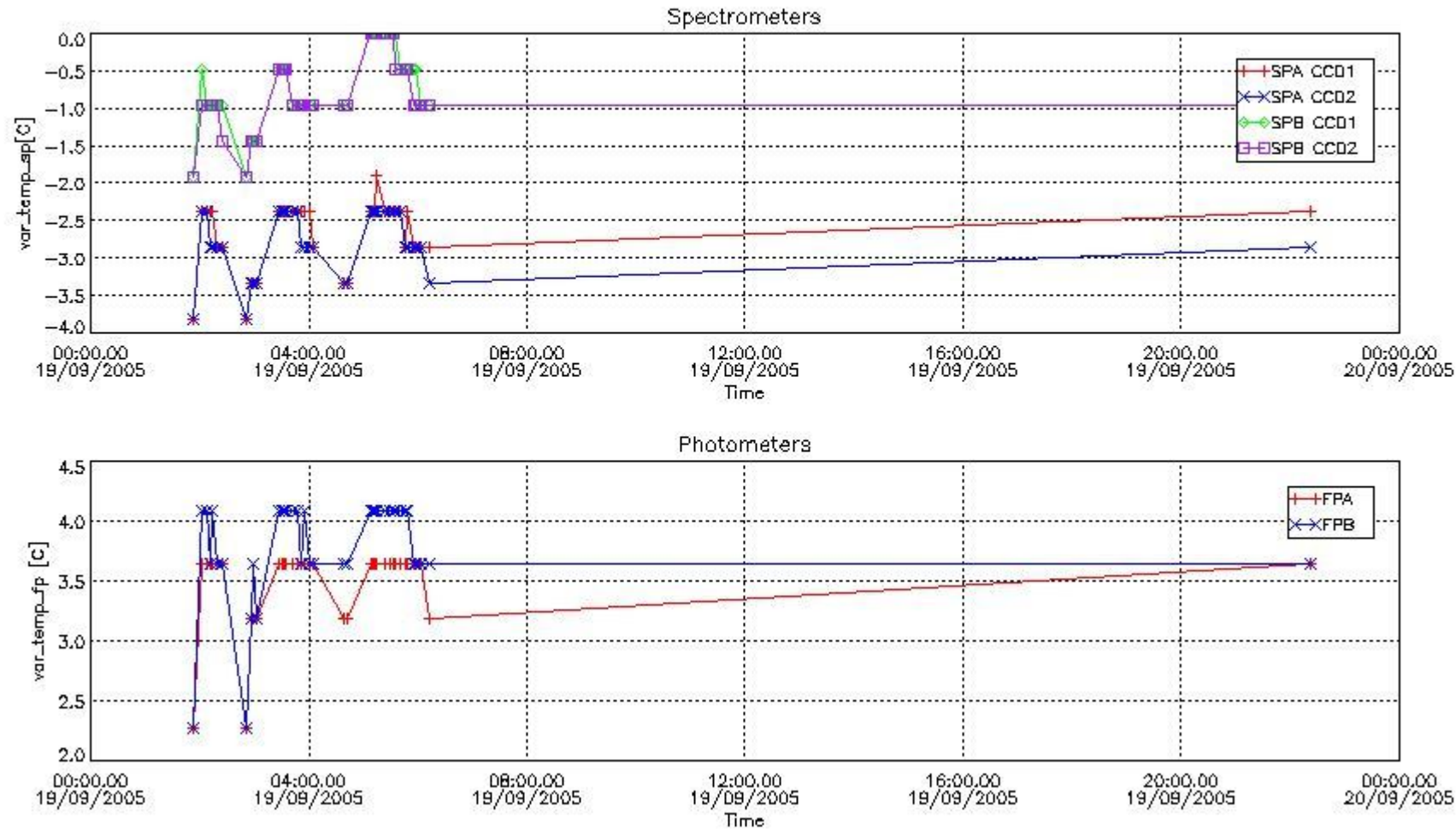
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20050919_015350_000000382040_00490_18580_0000.N1	19-SEP-2005 01:53:50	Dark	37.500	29	Bet Car	1.6720	10200.	75	18580	No
2	GOM_TRA_1PNPDE20050919_020209_000000382040_00490_18580_0001.N1	19-SEP-2005 02:02:09	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	18580	No
3	GOM_TRA_1PNPDE20050919_020739_000000452040_00490_18580_0002.N1	19-SEP-2005 02:07:39	Dark	44.500	148	Alp Tuc	2.8780	4100.0	89	18580	No
4	GOM_TRA_1PNPDE20050919_021124_000000432040_00490_18580_0003.N1	19-SEP-2005 02:11:24	Twilight	43.000	31	Alp Gru	1.7340	15200.	86	18580	No
5	GOM_TRA_1PNPDE20050919_021412_000000372040_00490_18580_0004.N1	19-SEP-2005 02:14:12	Bright	37.000	172	Gam Gru	3.0030	13100.	74	18580	No
6	GOM_TRA_1PNPDE20050919_022009_000000412040_00490_18580_0005.N1	19-SEP-2005 02:20:09	Bright	40.500	142	49Del Cap	2.8500	8900.0	81	18580	No
7	GOM_TRA_1PNPDE20050919_022421_000000372040_00490_18580_0006.N1	19-SEP-2005 02:24:21	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	18580	No
8	GOM_TRA_1PNPDE20050919_025052_000000362040_00490_18580_0000.N1	19-SEP-2005 02:50:52	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18580	No
9	GOM_TRA_1PNPDE20050919_025710_000000362040_00490_18580_0001.N1	19-SEP-2005 02:57:10	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	18580	No
10	GOM_TRA_1PNPDE20050919_025837_000000432040_00490_18580_0002.N1	19-SEP-2005 02:58:37	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	18580	No
11	GOM_TRA_1PNPDE20050919_030144_000000412040_00490_18580_0003.N1	19-SEP-2005 03:01:44	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	18580	No
12	GOM_TRA_1PNPDE20050919_032721_000000432040_00490_18580_0004.N1	19-SEP-2005 03:27:21	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	18580	No
13	GOM_TRA_1PNPDE20050919_033039_000000412040_00490_18580_0005.N1	19-SEP-2005 03:30:39	Dark	40.500	46	Del Vel	1.9540	10600.	81	18580	No
14	GOM_TRA_1PNPDE20050919_033212_000000472040_00490_18580_0006.N1	19-SEP-2005 03:32:12	Dark	47.000	41	Eps Car	1.8600	4100.0	94	18580	No
15	GOM_TRA_1PNPDE20050919_033426_000000462040_00491_18581_0007.N1	19-SEP-2005 03:34:26	Dark	46.000	29	Bet Car	1.6720	10200.	92	18581	No
16	GOM_TRA_1PNPDE20050919_034245_000000372040_00491_18581_0008.N1	19-SEP-2005 03:42:45	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	18581	No
17	GOM_TRA_1PNPDE20050919_034816_000000372040_00491_18581_0009.N1	19-SEP-2005 03:48:16	Dark	37.000	148	Alp Tuc	2.8780	4100.0	74	18581	No
18	GOM_TRA_1PNPDE20050919_035200_000000372040_00491_18581_0010.N1	19-SEP-2005 03:52:00	Twilight	37.000	31	Alp Gru	1.7340	15200.	74	18581	No
19	GOM_TRA_1PNPDE20050919_035448_000000382040_00491_18581_0011.N1	19-SEP-2005 03:54:48	Bright	38.000	172	Gam Gru	3.0030	13100.	76	18581	No
20	GOM_TRA_1PNPDE20050919_040046_000000392040_00491_18581_0012.N1	19-SEP-2005 04:00:46	Bright	38.500	142	49Del Cap	2.8500	8900.0	77	18581	No
21	GOM_TRA_1PNPDE20050919_040457_000000372040_00491_18581_0013.N1	19-SEP-2005 04:04:57	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	18581	No
22	GOM_TRA_1PNPDE20050919_043746_000000352040_00491_18581_0000.N1	19-SEP-2005 04:37:46	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	18581	No
23	GOM_TRA_1PNPDE20050919_043913_000000482040_00491_18581_0001.N1	19-SEP-2005 04:39:13	Bright	47.500	82	48Bet UMa	2.3650	10600.	95	18581	No
24	GOM_TRA_1PNPDE20050919_044220_000000332040_00491_18581_0002.N1	19-SEP-2005 04:42:20	Bright	33.000	174	52Psi UMa	3.0040	4400.0	66	18581	No
25	GOM_TRA_1PNPDE20050919_050758_000000432040_00491_18581_0003.N1	19-SEP-2005 05:07:58	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	18581	No
26	GOM_TRA_1PNPDE20050919_051116_000000392040_00491_18581_0004.N1	19-SEP-2005 05:11:16	Dark	39.000	46	Del Vel	1.9540	10600.	78	18581	No
27	GOM_TRA_1PNPDE20050919_051249_000000492040_00491_18581_0005.N1	19-SEP-2005 05:12:49	Dark	48.500	41	Eps Car	1.8600	4100.0	97	18581	No
28	GOM_TRA_1PNPDE20050919_051502_000000392040_00492_18582_0006.N1	19-SEP-2005 05:15:02	Dark	38.500	29	Bet Car	1.6720	10200.	77	18582	No
29	GOM_TRA_1PNPDE20050919_052321_000000382040_00492_18582_0007.N1	19-SEP-2005 05:23:21	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	18582	No
30	GOM_TRA_1PNPDE20050919_052852_000000382040_00492_18582_0008.N1	19-SEP-2005 05:28:52	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	18582	No
31	GOM_TRA_1PNPDE20050919_053237_000000402040_00492_18582_0009.N1	19-SEP-2005 05:32:37	Twilight	39.500	31	Alp Gru	1.7340	15200.	79	18582	No
32	GOM_TRA_1PNPDE20050919_053524_000000392040_00492_18582_0010.N1	19-SEP-2005 05:35:24	Bright	39.000	172	Gam Gru	3.0030	13100.	78	18582	No
33	GOM_TRA_1PNPDE20050919_054122_000000412040_00492_18582_0011.N1	19-SEP-2005 05:41:22	Bright	40.500	142	49Del Cap	2.8500	8900.0	81	18582	No
34	GOM_TRA_1PNPDE20050919_054533_000000382040_00492_18582_0012.N1	19-SEP-2005 05:45:33	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	18582	No
35	GOM_TRA_1PNPDE20050919_054835_000000382040_00492_18582_0013.N1	19-SEP-2005 05:48:35	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	18582	No
36	GOM_TRA_1PNPDE20050919_055600_000000382040_00492_18582_0014.N1	19-SEP-2005 05:56:00	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	18582	No
37	GOM_TRA_1PNPDE20050919_055811_000000372040_00492_18582_0015.N1	19-SEP-2005 05:58:11	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	18582	No
38	GOM_TRA_1PNPDE20050919_060317_000000362040_00492_18582_0016.N1	19-SEP-2005 06:03:17	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	18582	No
39	GOM_TRA_1PNPDE20050919_061204_000000362040_00492_18582_0017.N1	19-SEP-2005 06:12:04	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18582	No
40	GOM_TRA_1PNPDE20050919_222253_00000022041_00001_18592_0001.N1	19-SEP-2005 22:22:53	Twilight	2.0000	18	24Alp PsA	1.1660	9700.0	4	18592	Yes

## 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).

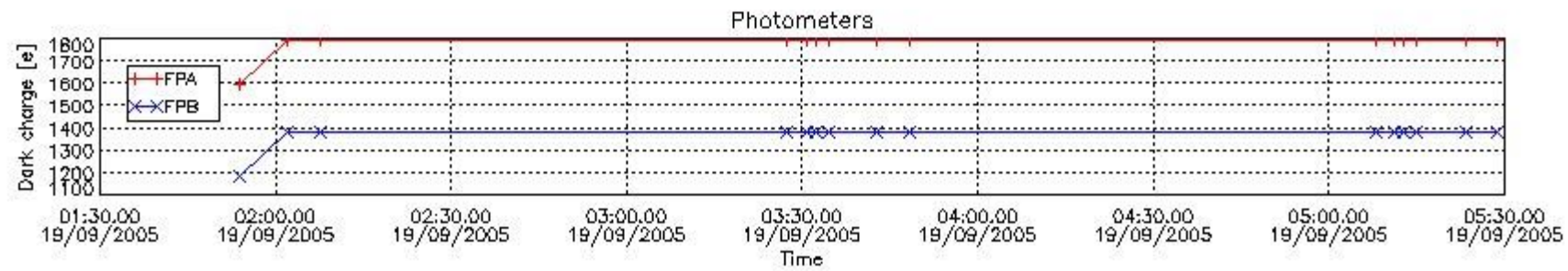
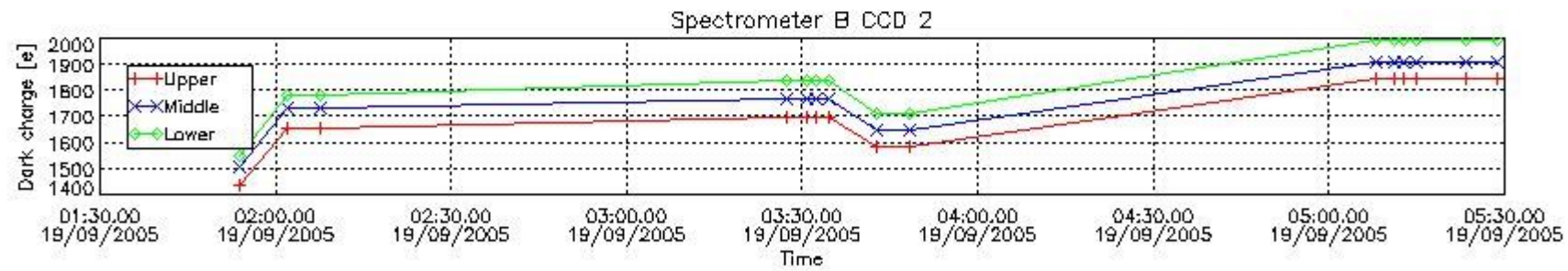
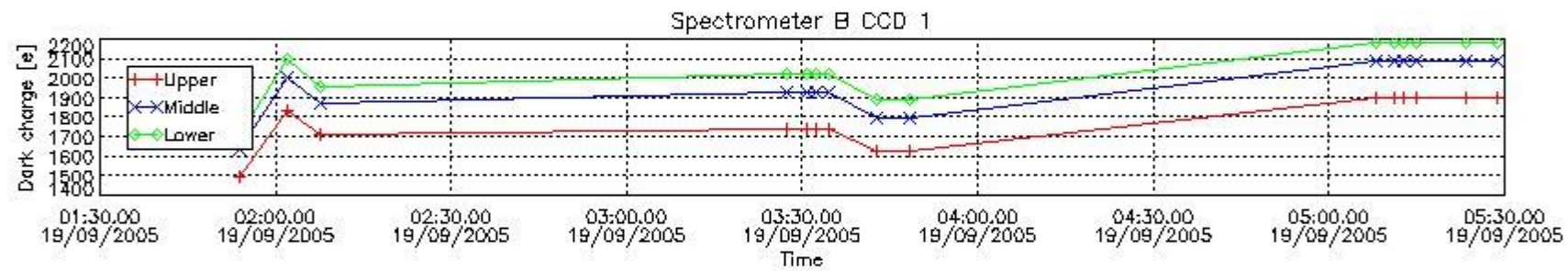
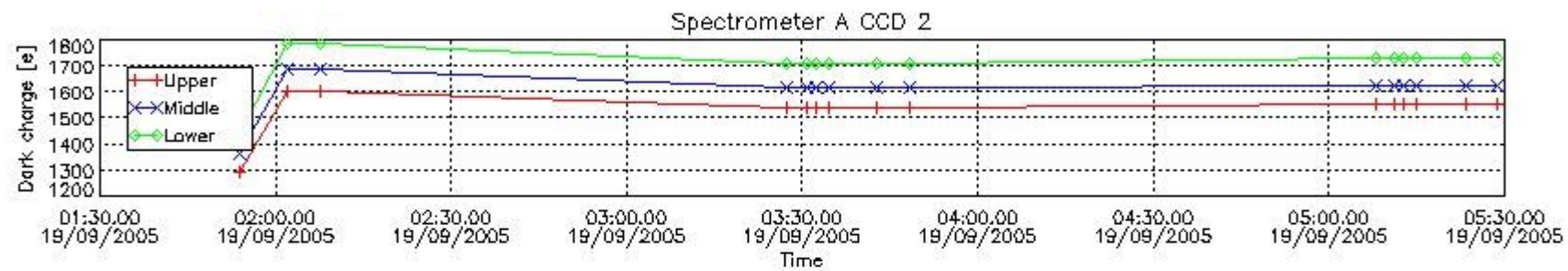
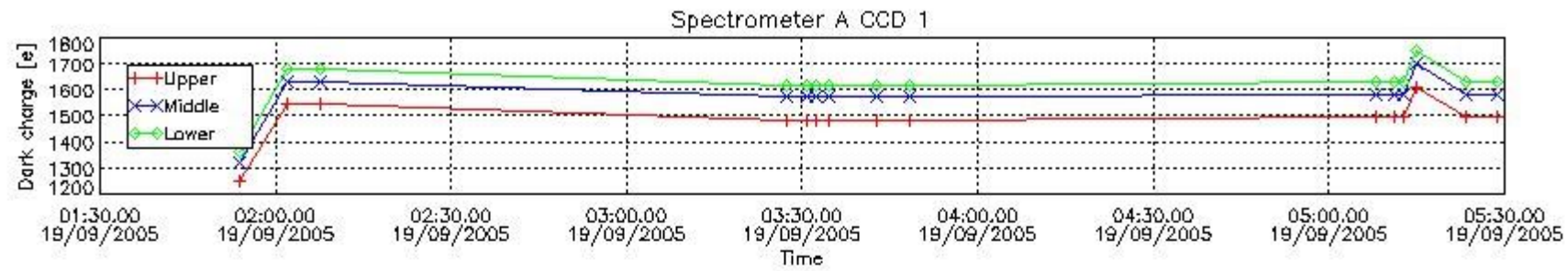
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20050919_015350_000000382040_00490_18580_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20050919_020209_000000382040_00490_18580_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20050919_020739_000000452040_00490_18580_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20050919_021124_000000432040_00490_18580_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20050919_021412_000000372040_00490_18580_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20050919_022209_000000412040_00490_18580_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20050919_022421_000000372040_00490_18580_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20050919_222253_000000022041_00001_18592_0001.N1	DC map used (0)

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





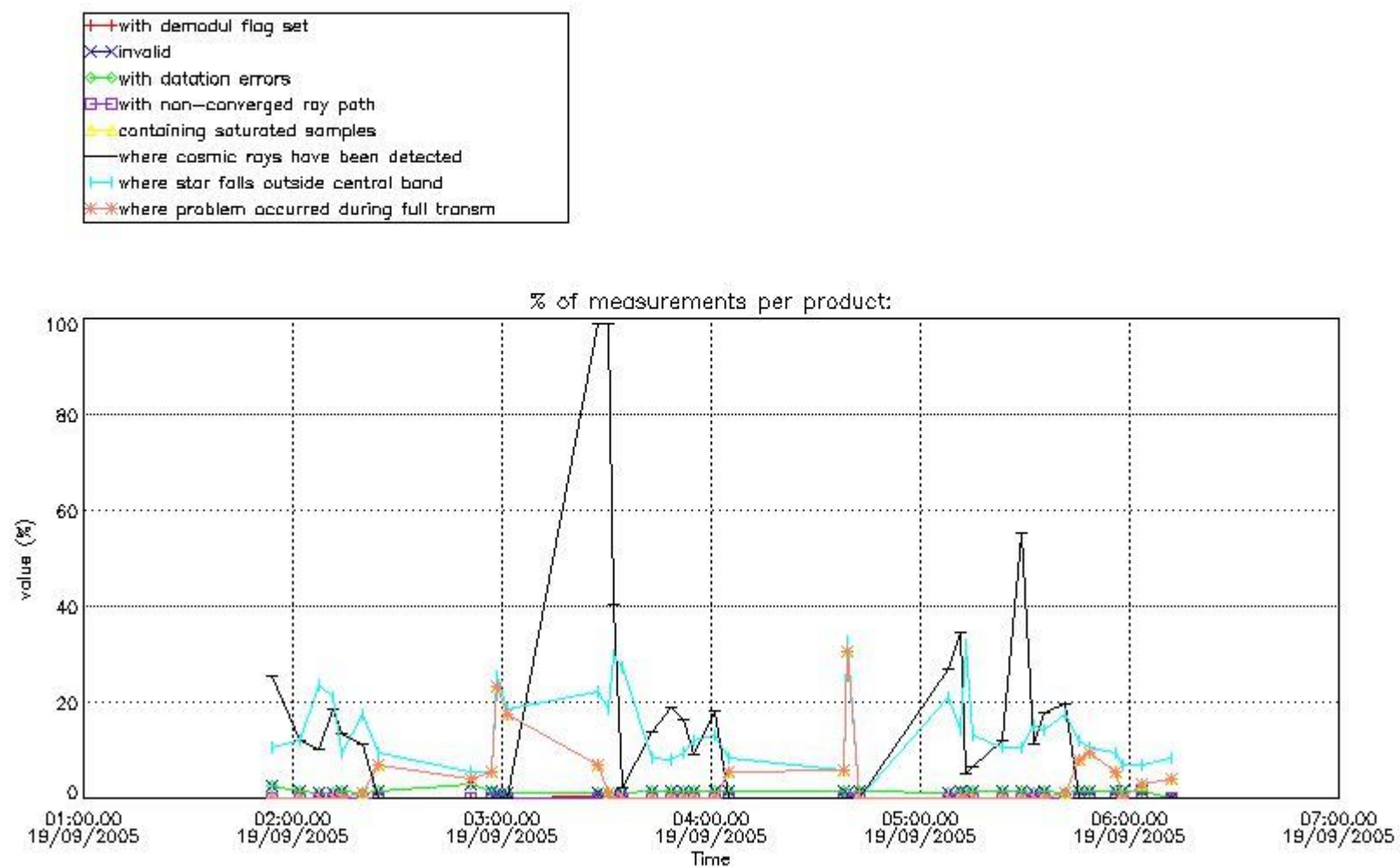
## 5. Demodulation flag and quality information monitoring

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:

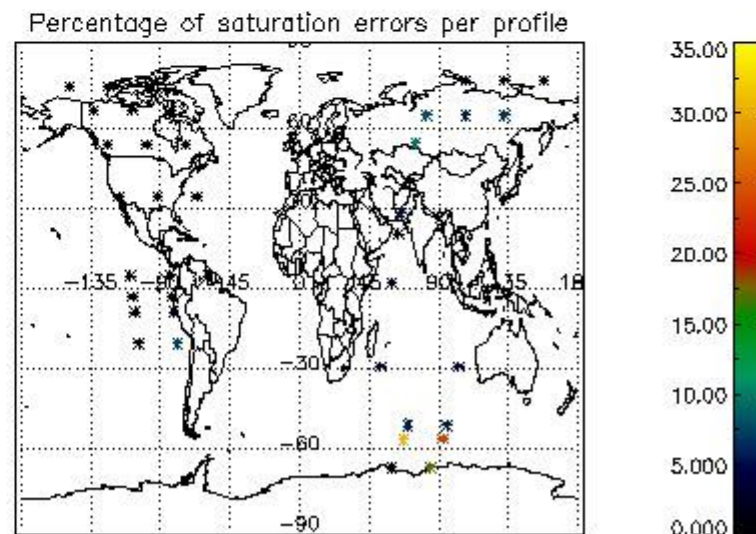
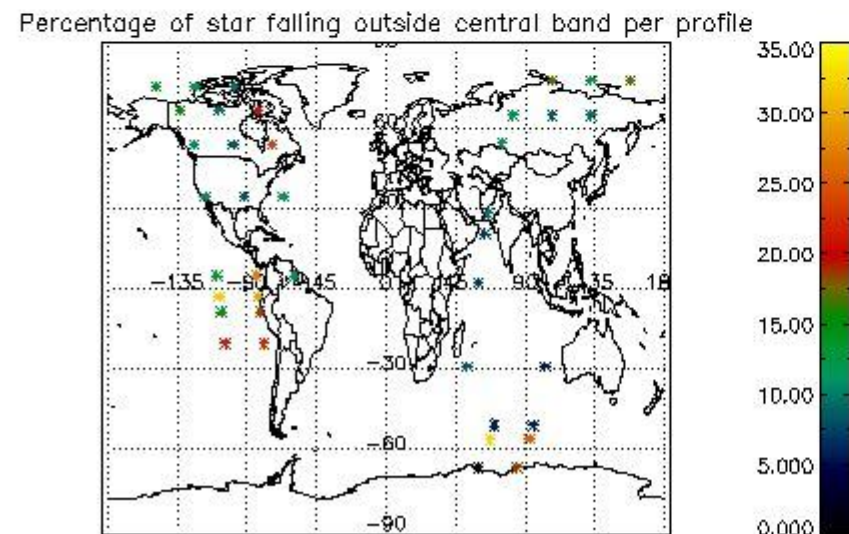
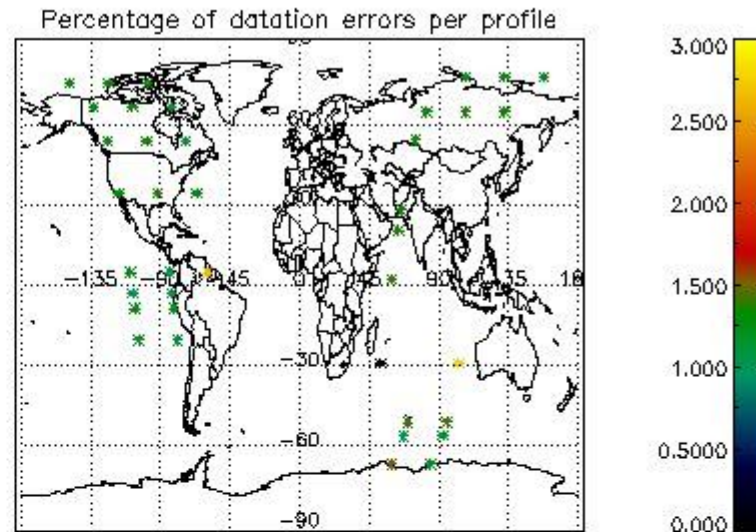
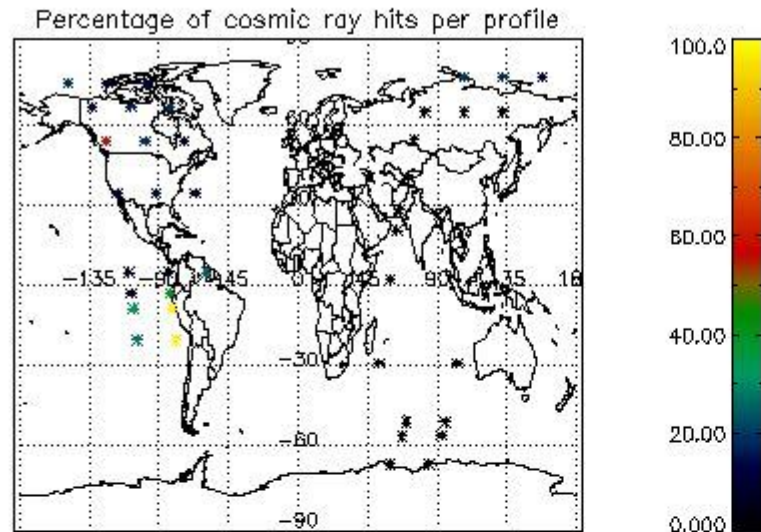
At least one measurement with demodulation flag set:	15.3846 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





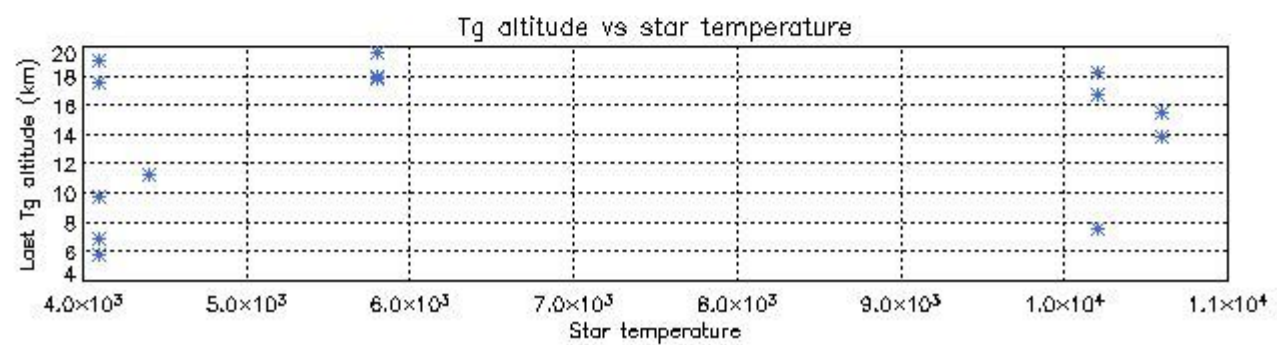
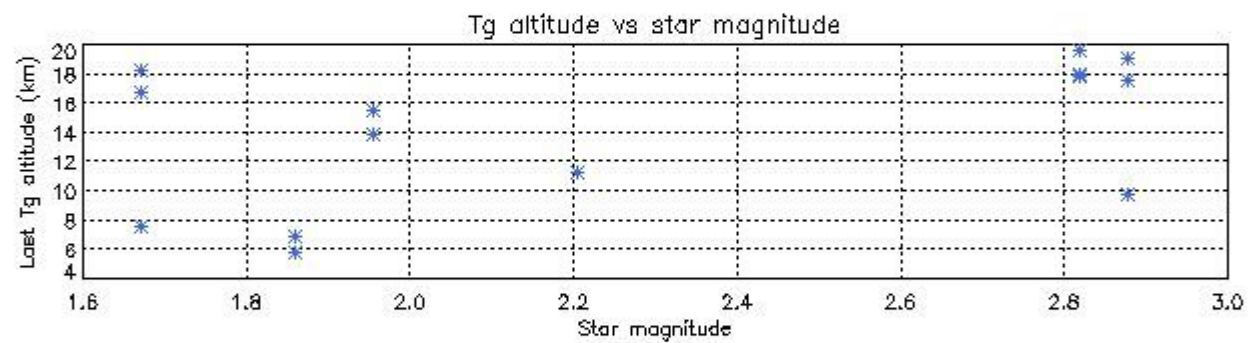
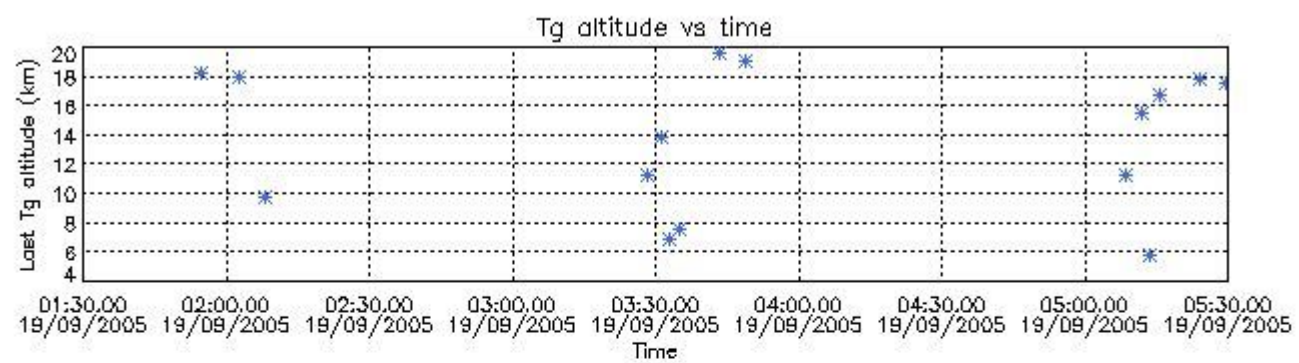
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.905	17.489	15.280
St. deviation:	4.7746	4.6031	3.5502
Maximum:	19.584	27.641	18.737
Minimum:	5.7253	6.6044	11.643
Number of data:	15.000	21.000	3.0000

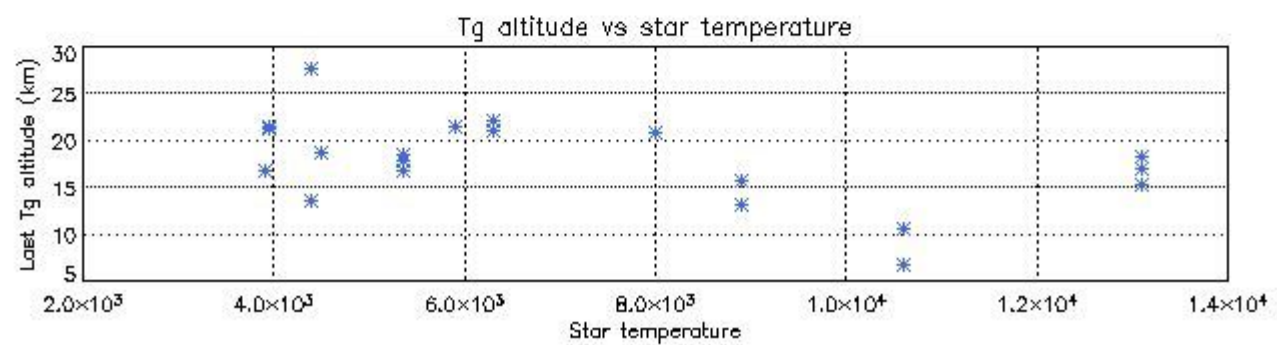
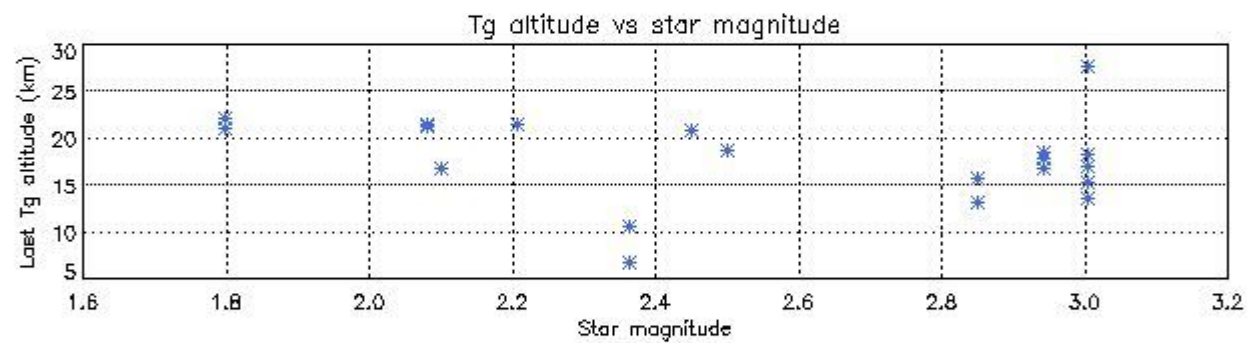
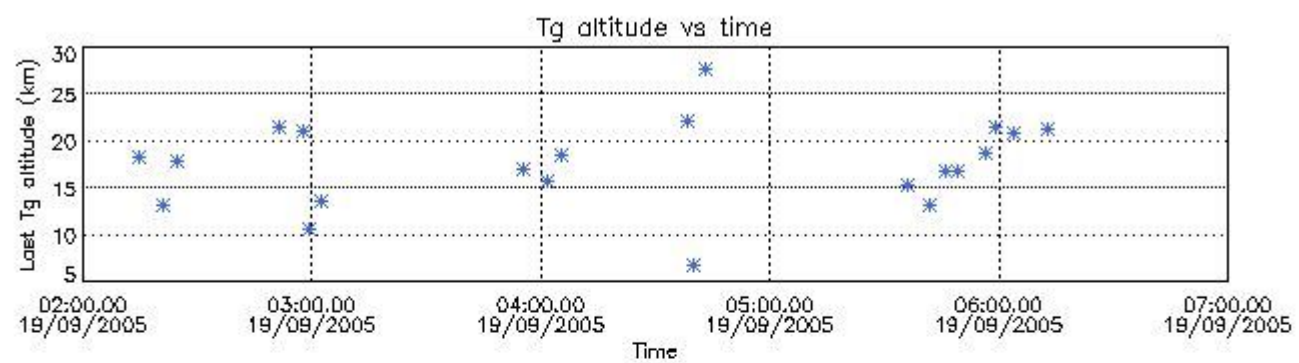
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

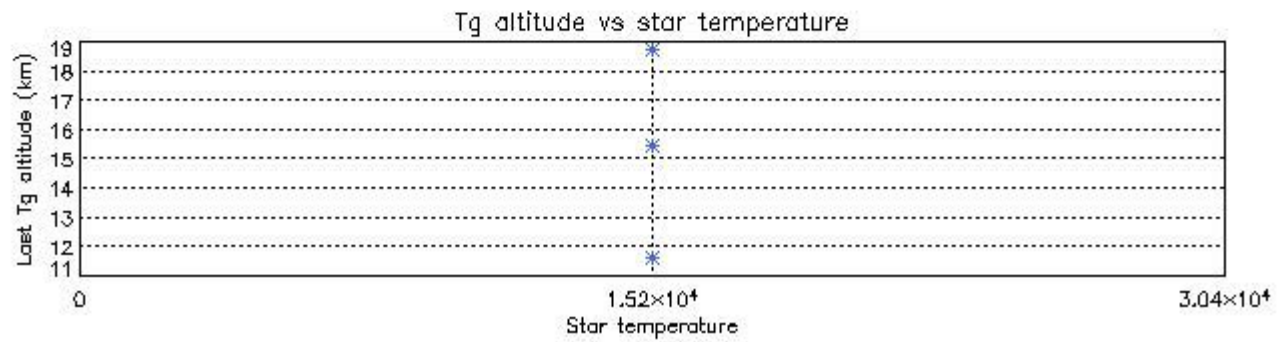
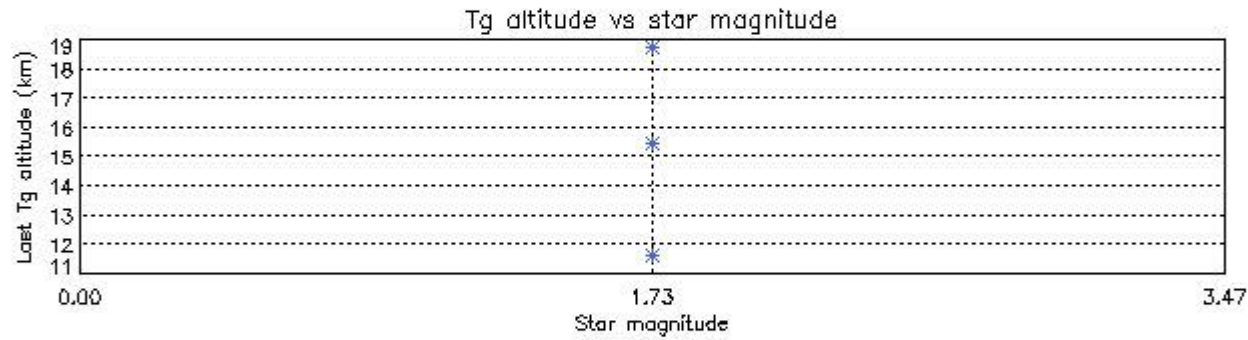
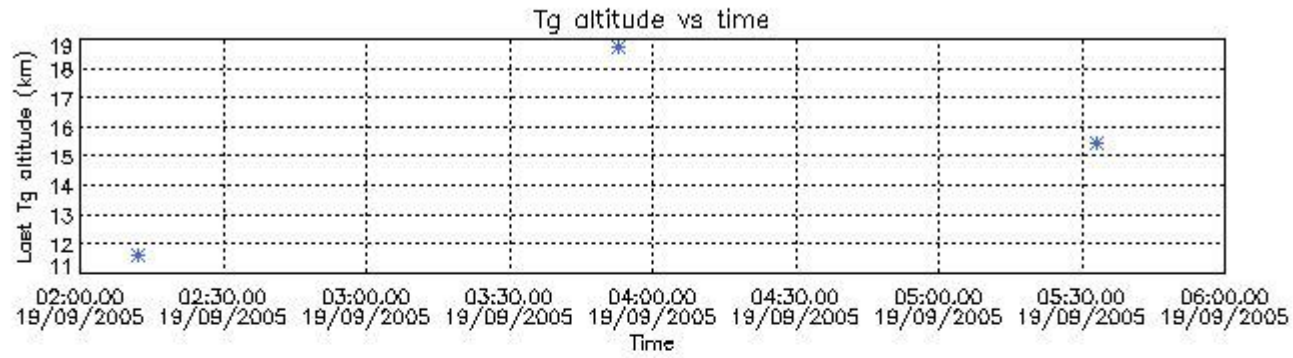
Tangent altitude at which the star is lost



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

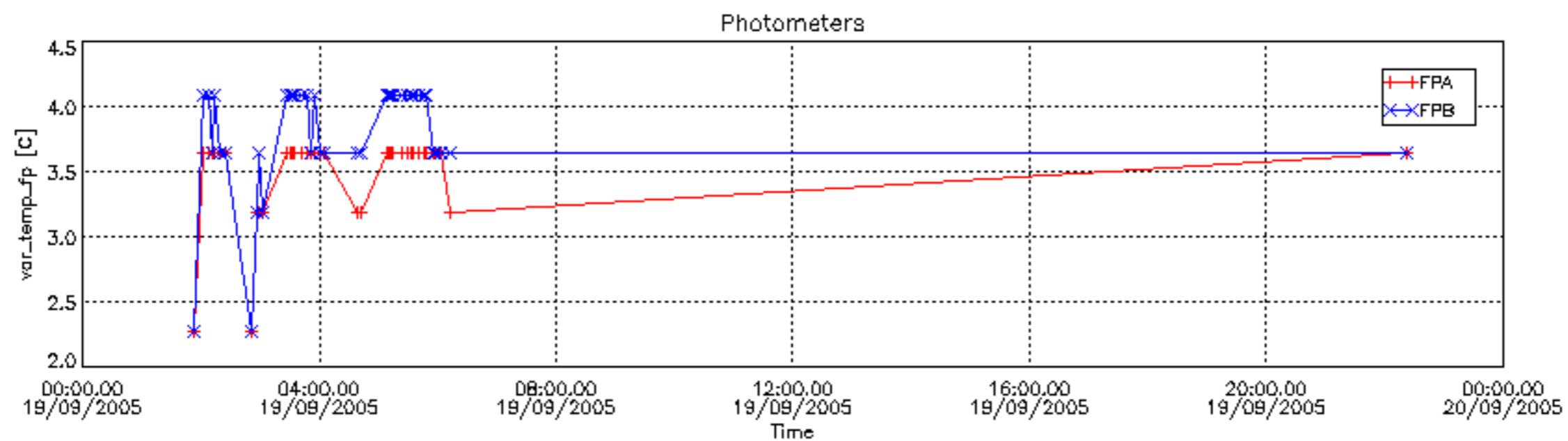
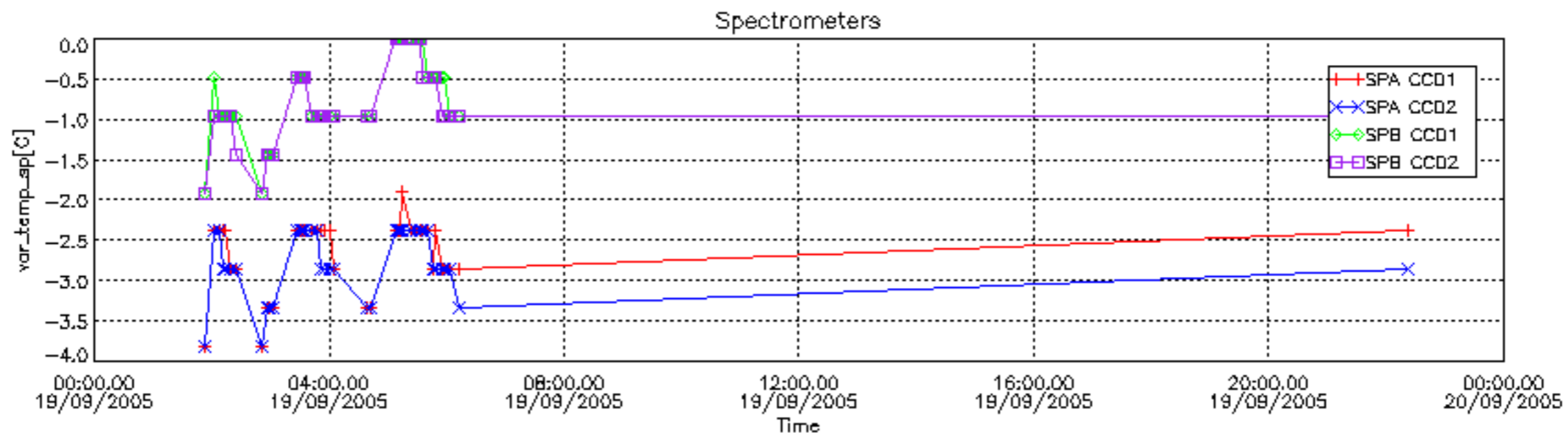
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

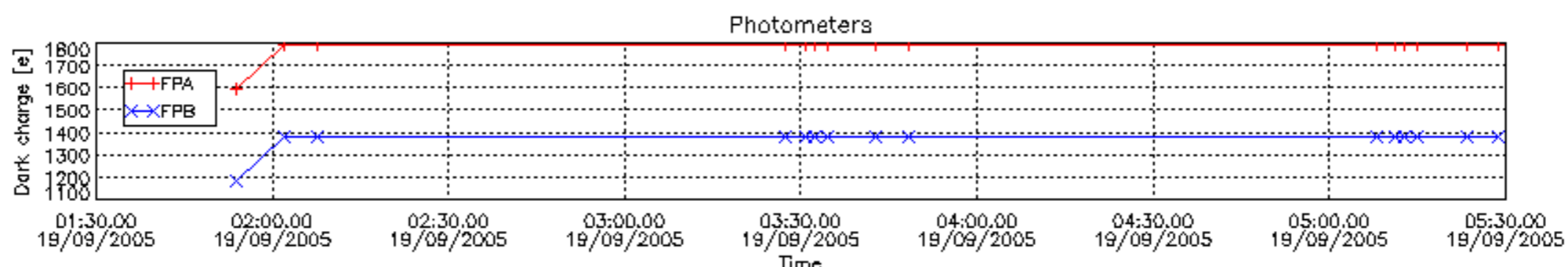
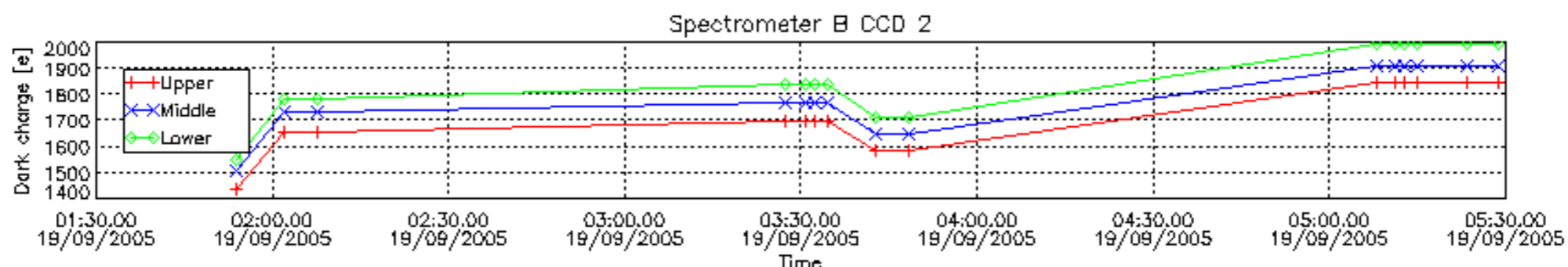
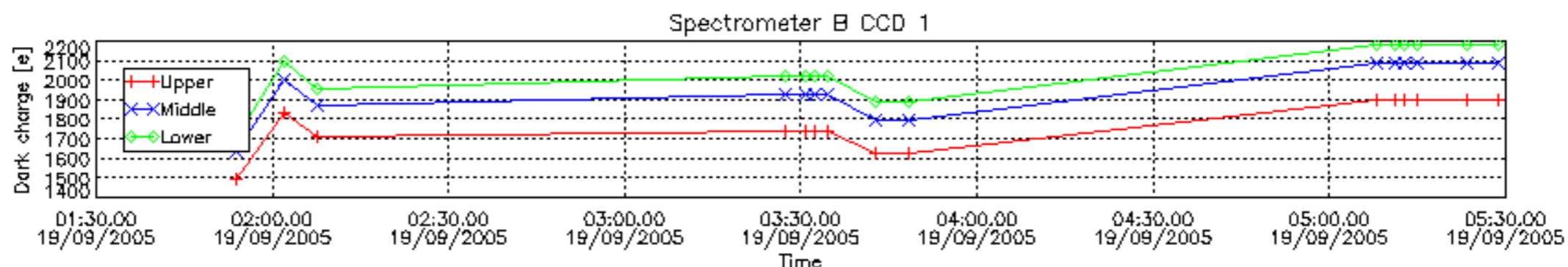
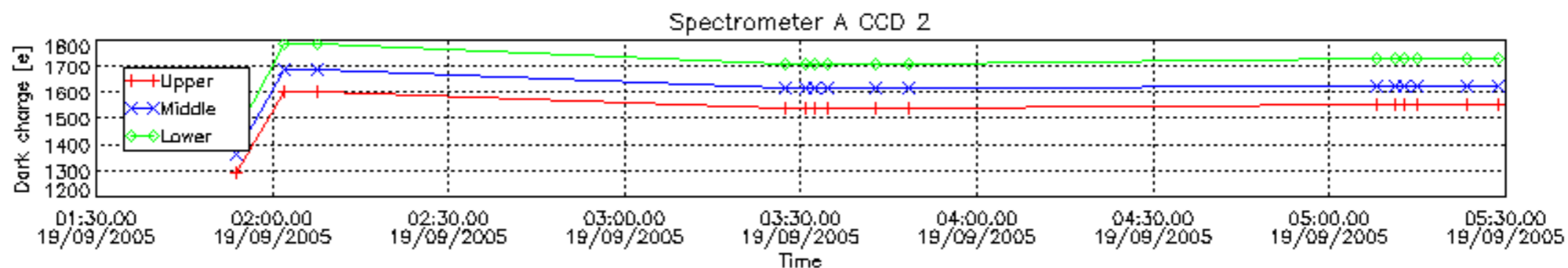
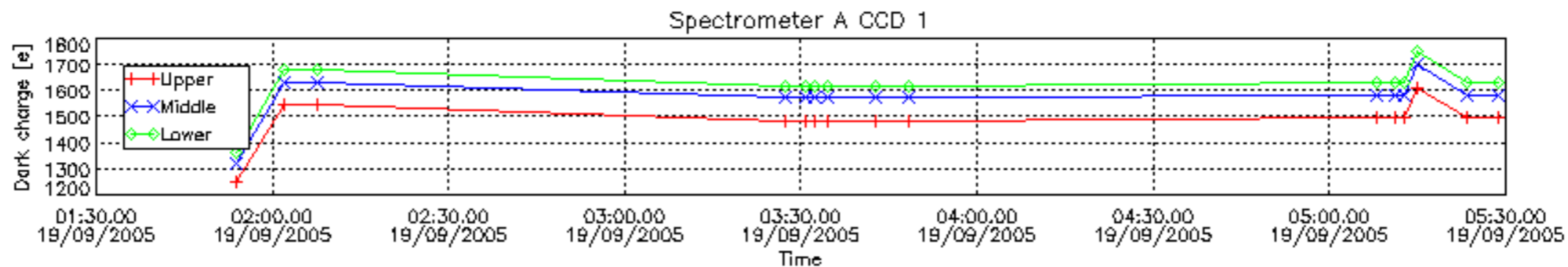
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1459.4	1445.5	1458.5	1446.2
St. deviation:	4.6190	10.298	8.3916	15.652
Maximum:	1486.0	1486.0	1509.0	1523.0
Minimum:	1444.0	1418.0	1448.0	1429.0
Number of data:	12400.	12400.	17300.	17300.

## 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	19-SEP-2005 01:53:50
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050908_122716_20050907_000000_20100101_000000	1	19-SEP-2005 01:53:50
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	19-SEP-2005 01:53:50
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-SEP-2005 01:53:50
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	19-SEP-2005 01:53:50
ECMWF_FILE	AUX_ECF_AXNECM20050918_061129_20050918_210000_20050919_090000	1	19-SEP-2005 01:53:50
ECMWF_FILE	AUX_ECF_AXNECM20050918_193135_20050919_030000_20050919_150000	22	19-SEP-2005 04:37:46
ECMWF_FILE	AUX_ECA_AXNECM20050919_070145_20050918_210000_20050919_090000	35	19-SEP-2005 05:48:35
ECMWF_FILE	AUX_ECF_AXNECM20050919_061133_20050919_210000_20050920_090000	40	19-SEP-2005 22:22:53
OPTIONAL_ECMWF_FILE	NOT USED	1	19-SEP-2005 01:53:50
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050916_000140_20050915_190420_20050925_203035	1	19-SEP-2005 01:53:50
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050919_124645_20050918_191006_20050928_203620	35	19-SEP-2005 05:48:35
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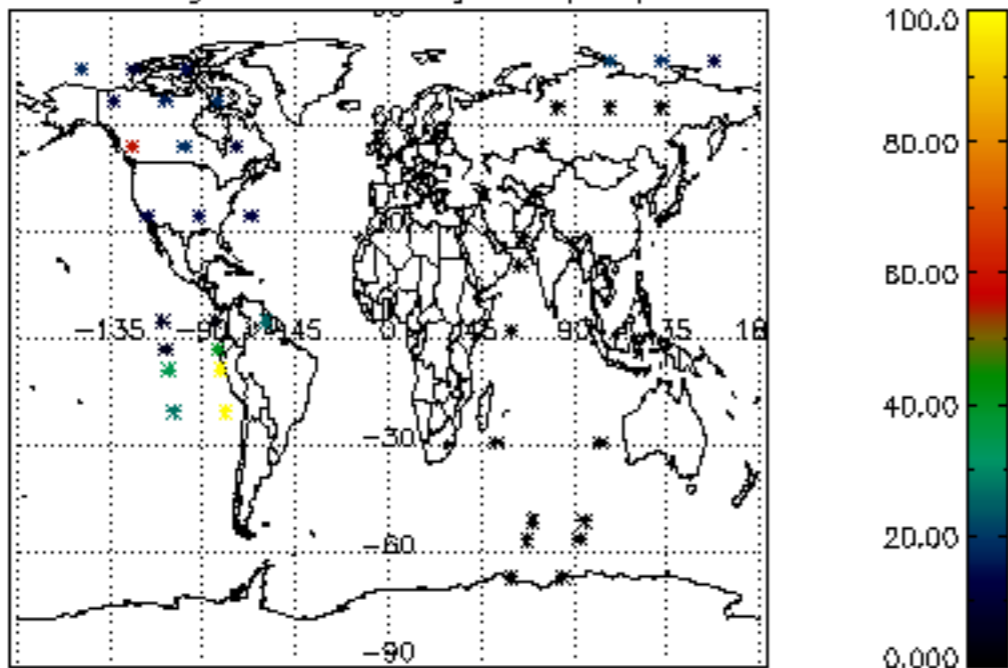




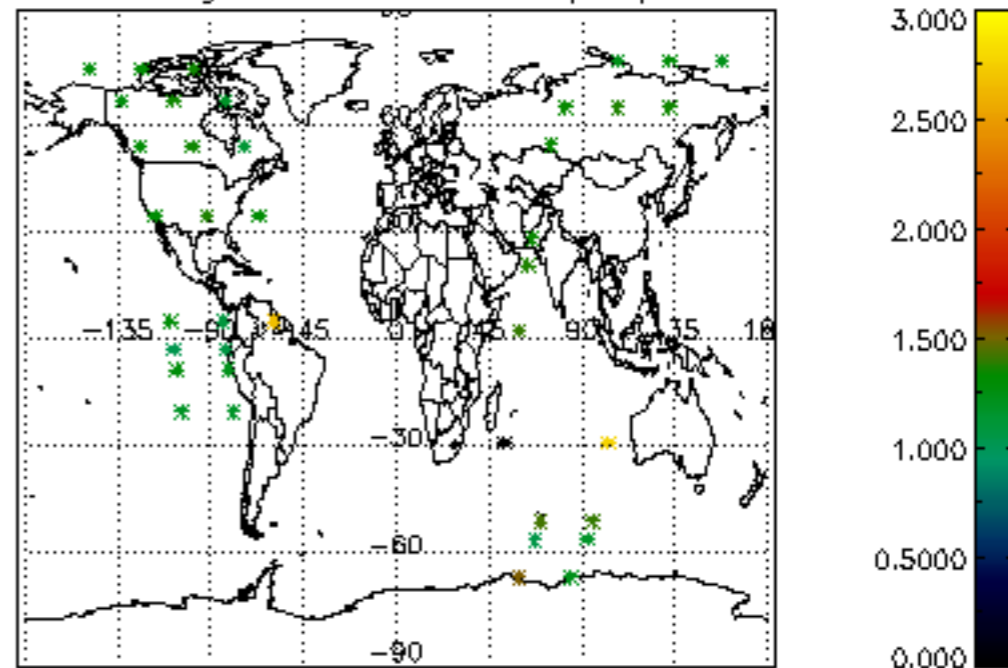




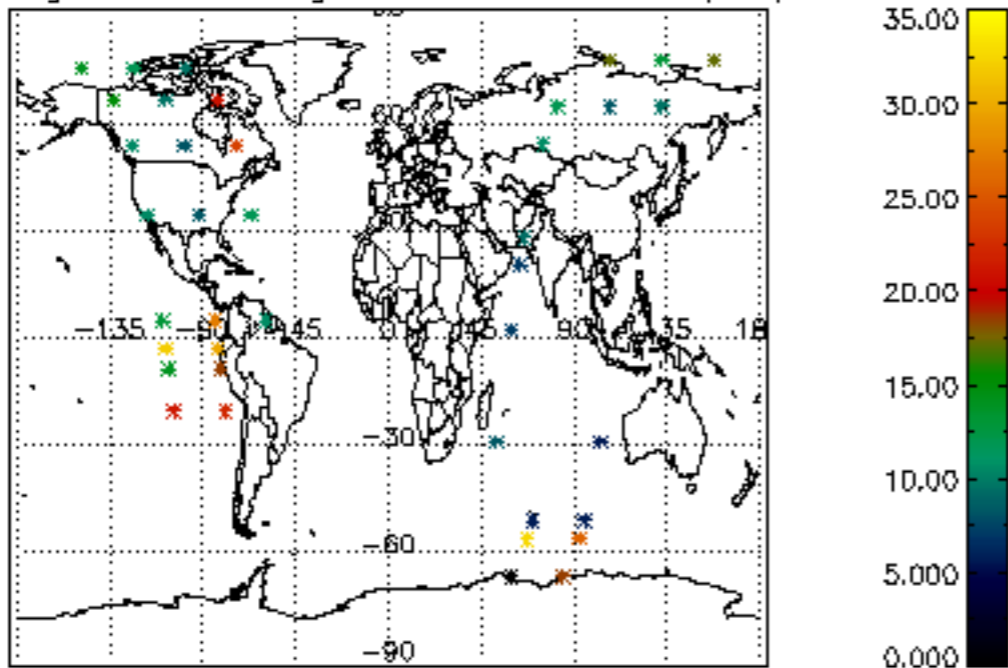
Percentage of cosmic ray hits per profile



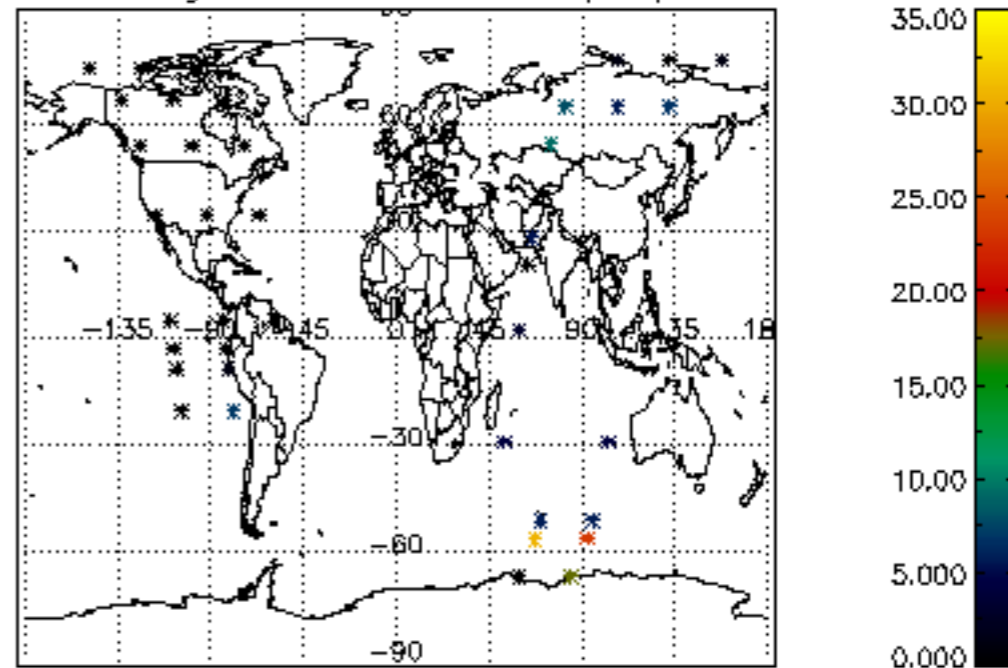
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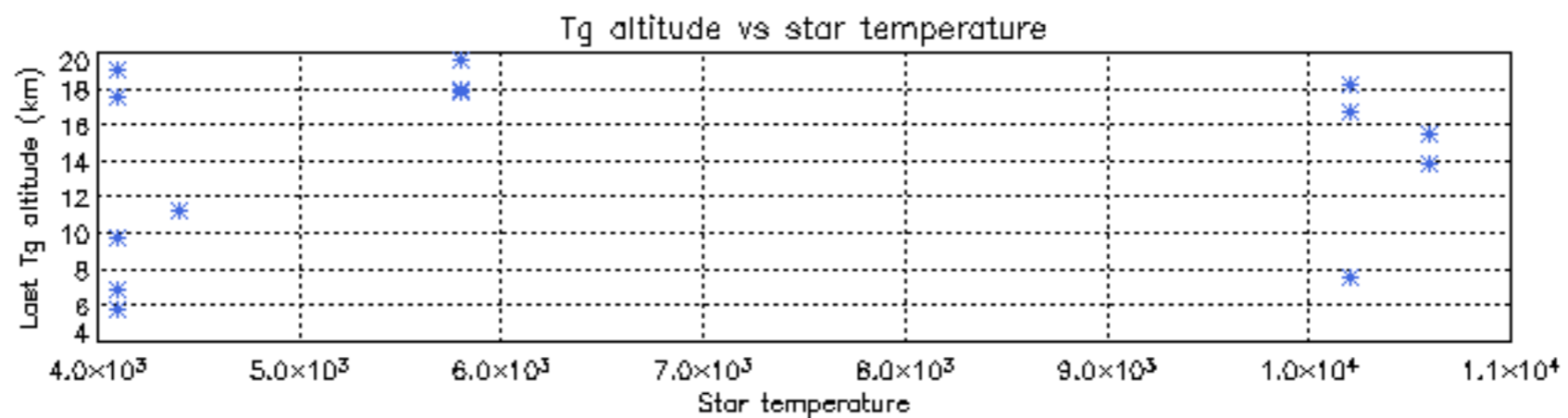
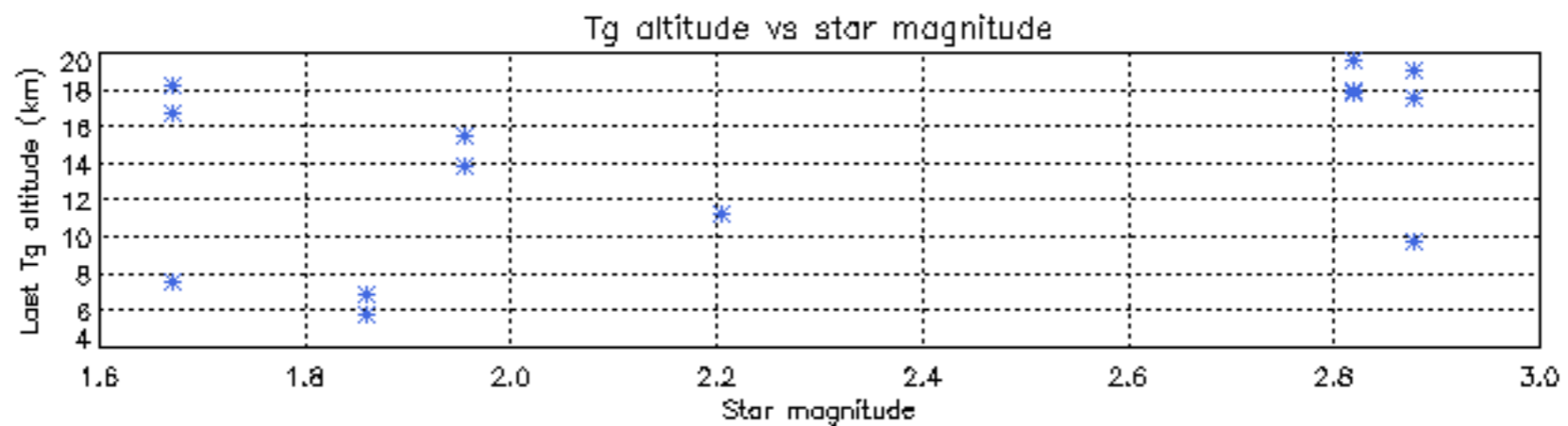
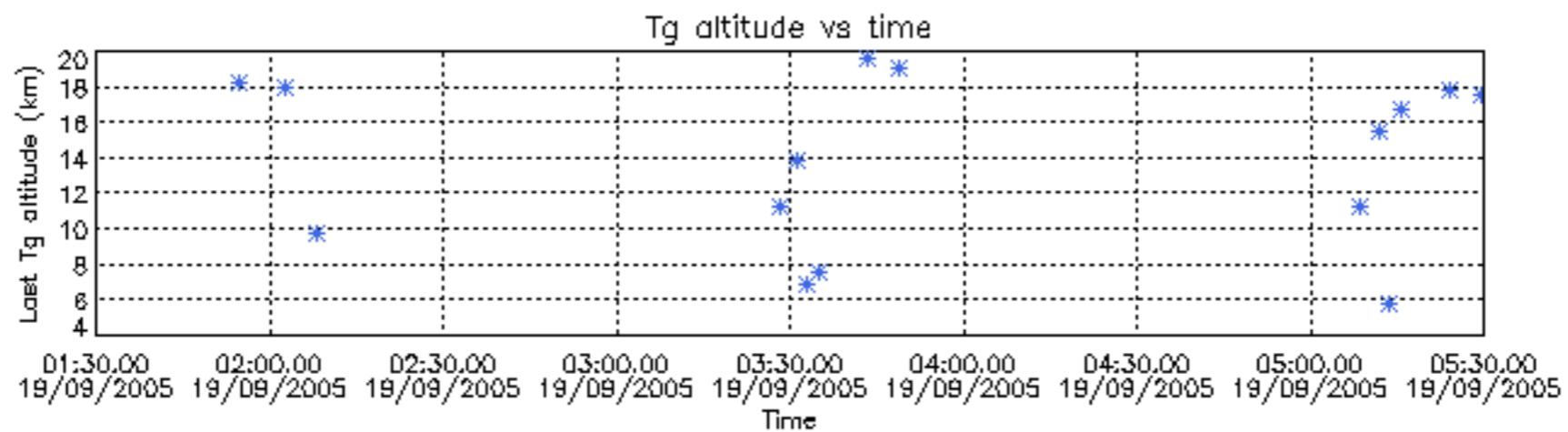
Percentage of star falling outside central band per profile



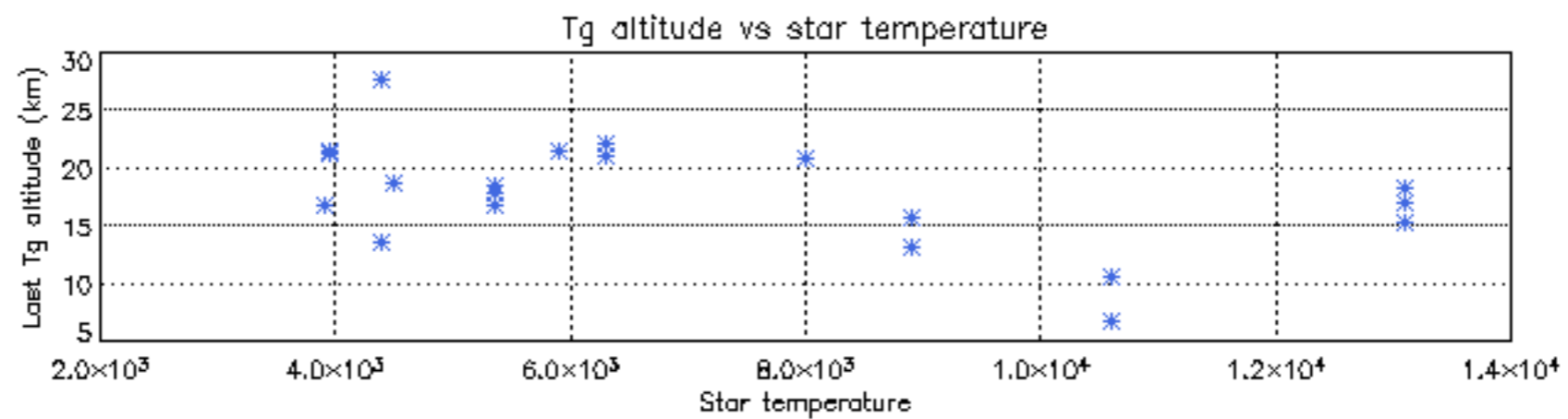
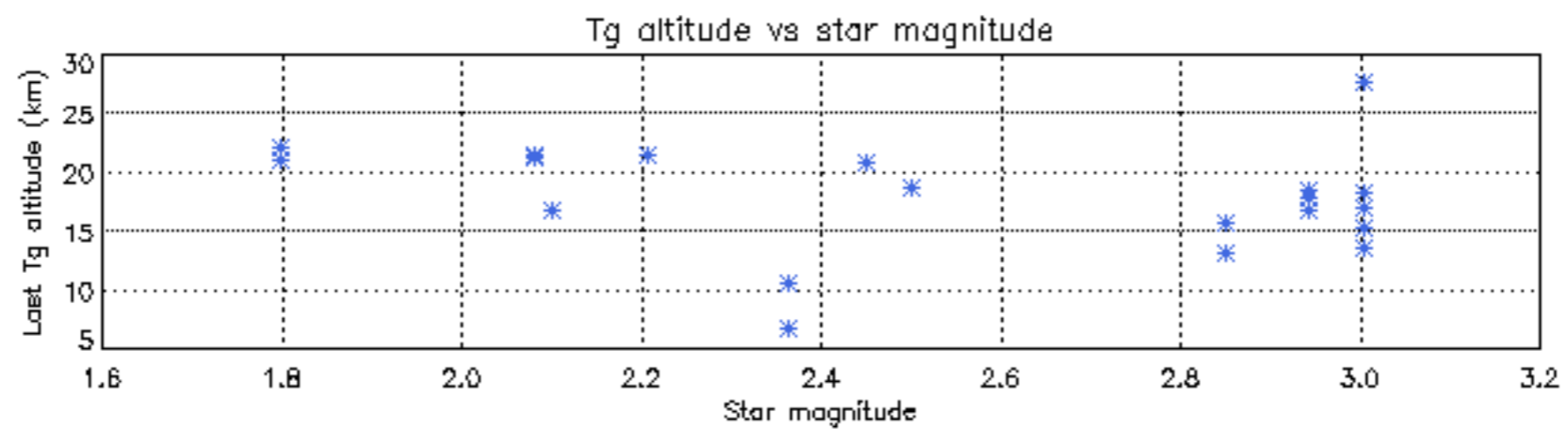
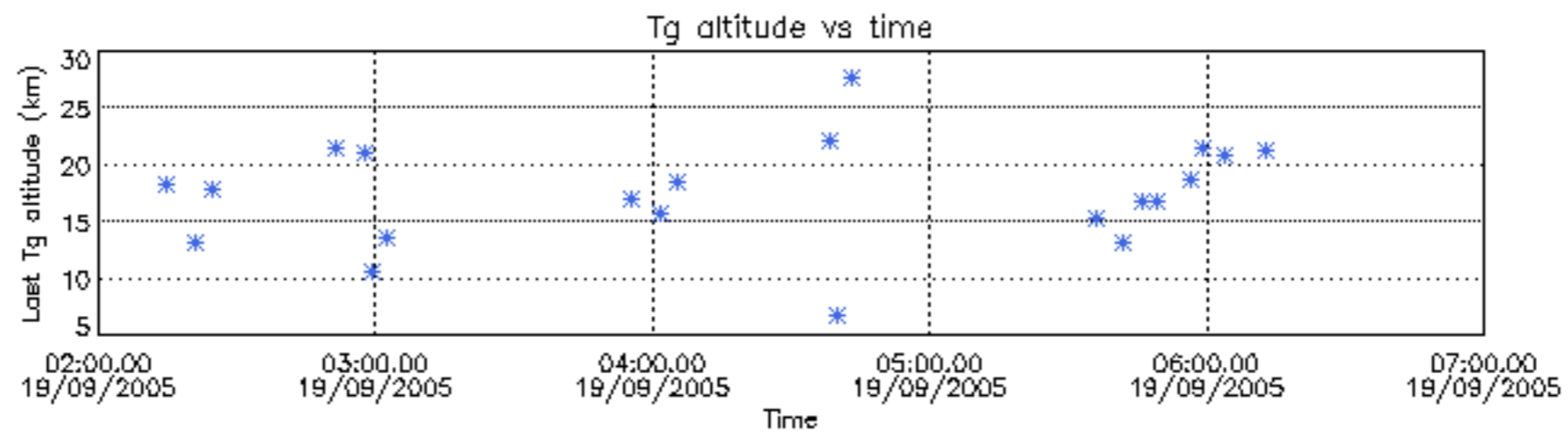
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

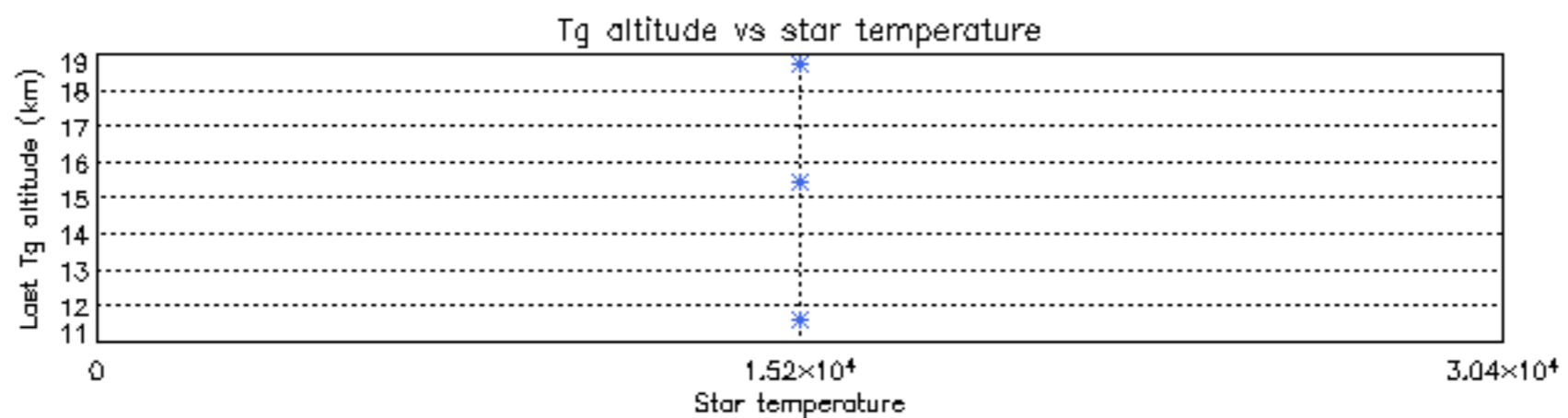
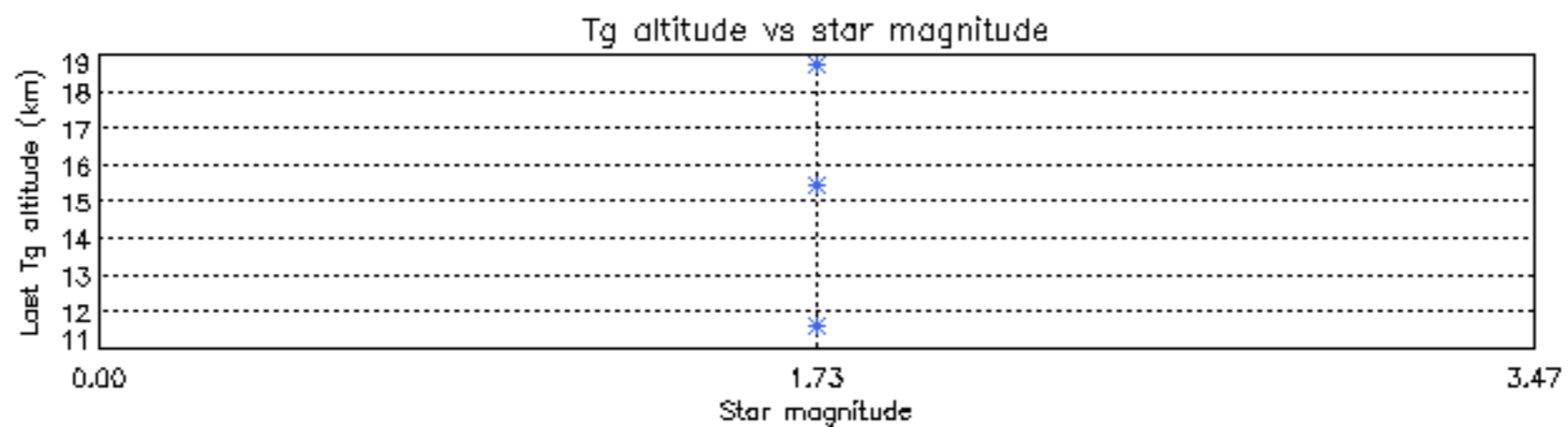
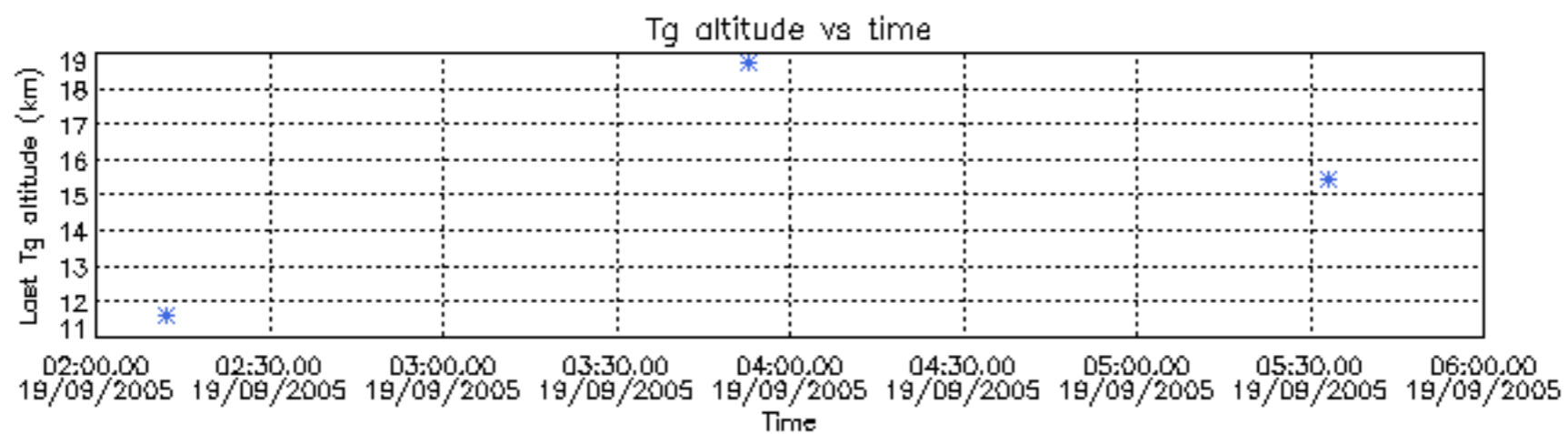


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



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10;-1847.7; 30-SEP-2005 19:02:18; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;18747
11;-1448.6; 30-SEP-2005 19:08:57; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;18747
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

