

# GOMOS Daily Report 28-SEP-2005

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

[2.1 Level 0 products arrived in PCF during actual month \(see template here\)](#)

[2.2 Level 1 products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Statistics on SATU Noise Equivalent Angle](#)

#### [8. Auxiliary Data Files used for the production reported in section 2.2](#)

## [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	30SEP2005 05:02:06

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (28SEP2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (29SEP2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

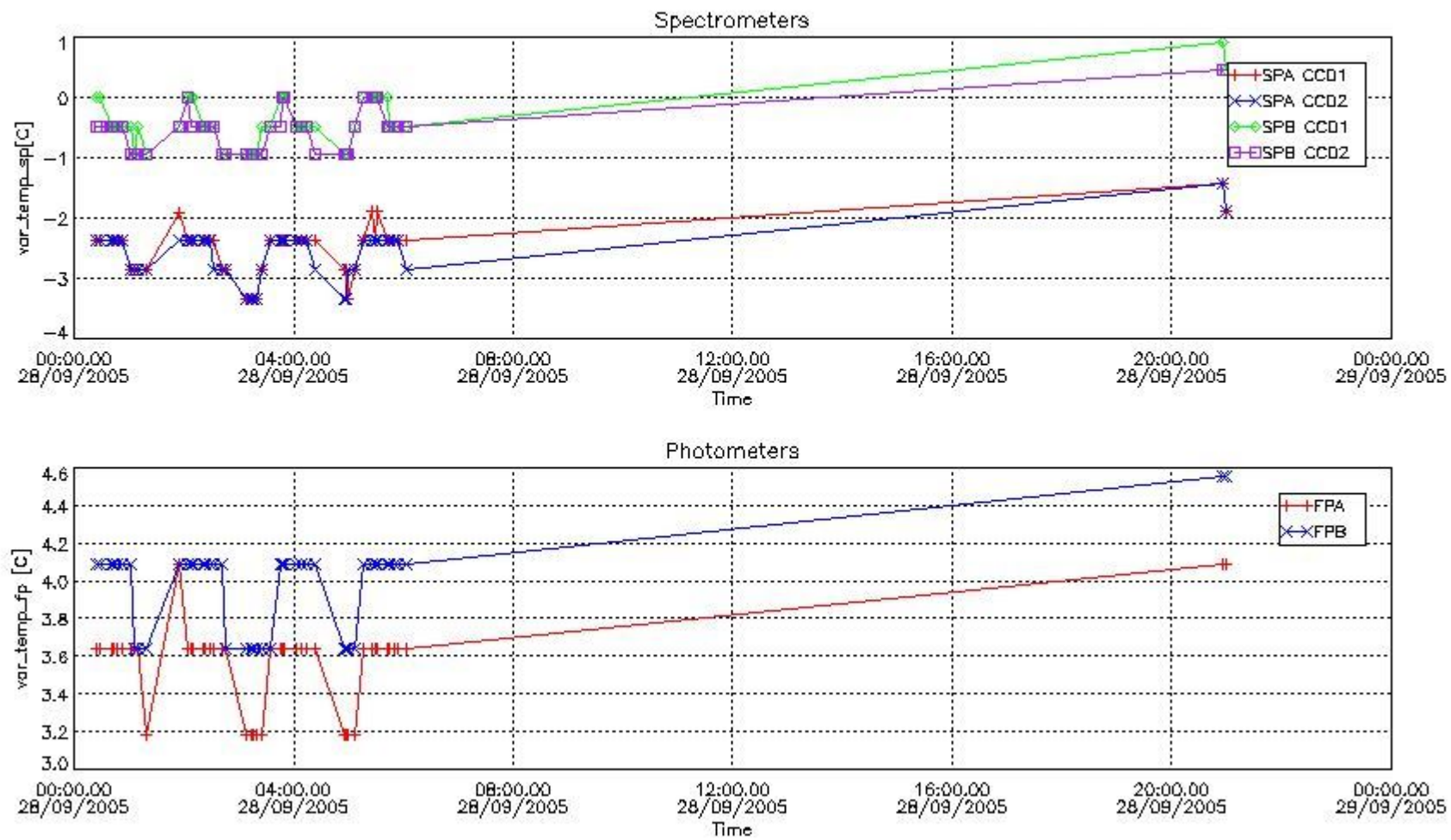
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20050928_002359_000000432041_00116_18707_0000.N1	28-SEP-2005 00:23:59	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	18707	No
2	GOM_TRA_1PNPDE20050928_002717_000000392041_00116_18707_0001.N1	28-SEP-2005 00:27:17	Dark	38.500	46	Del Vel	1.9540	10600.	77	18707	No
3	GOM_TRA_1PNPDE20050928_002852_000000422041_00116_18707_0002.N1	28-SEP-2005 00:28:52	Dark	41.500	41	Eps Car	1.8600	4100.0	83	18707	No
4	GOM_TRA_1PNPDE20050928_004104_000000382041_00117_18708_0003.N1	28-SEP-2005 00:41:04	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	18708	No
5	GOM_TRA_1PNPDE20050928_004231_000000492041_00117_18708_0004.N1	28-SEP-2005 00:42:31	Dark	48.500	9	Alp Eri	0.45300	24000.	97	18708	No
6	GOM_TRA_1PNPDE20050928_004757_000000422041_00117_18708_0005.N1	28-SEP-2005 00:47:57	Twilight	41.500	84	Alp Phe	2.3970	4500.0	83	18708	No
7	GOM_TRA_1PNPDE20050928_005242_000000442041_00117_18708_0006.N1	28-SEP-2005 00:52:42	Bright	43.500	18	24Alp PsA	1.1660	9700.0	87	18708	No
8	GOM_TRA_1PNPDE20050928_010122_000000372041_00117_18708_0007.N1	28-SEP-2005 01:01:22	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	18708	No
9	GOM_TRA_1PNPDE20050928_010515_000000372041_00117_18708_0008.N1	28-SEP-2005 01:05:15	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	18708	No
10	GOM_TRA_1PNPDE20050928_010855_000000402041_00117_18708_0009.N1	28-SEP-2005 01:08:55	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	18708	No
11	GOM_TRA_1PNPDE20050928_011901_000000362041_00117_18708_0010.N1	28-SEP-2005 01:19:01	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	18708	No
12	GOM_TRA_1PNPDE20050928_015454_000000452041_00117_18708_0000.N1	28-SEP-2005 01:54:54	Twilight	45.000	48	30Alp Hya	1.9770	4100.0	90	18708	No
13	GOM_TRA_1PNPDE20050928_020435_000000392041_00117_18708_0001.N1	28-SEP-2005 02:04:35	Dark	39.000	65	Lam Vel	2.2040	4400.0	78	18708	No
14	GOM_TRA_1PNPDE20050928_020753_000000382041_00117_18708_0002.N1	28-SEP-2005 02:07:53	Dark	38.000	46	Del Vel	1.9540	10600.	76	18708	No
15	GOM_TRA_1PNPDE20050928_020929_000000392041_00117_18708_0003.N1	28-SEP-2005 02:09:29	Dark	39.000	41	Eps Car	1.8600	4100.0	78	18708	No
16	GOM_TRA_1PNPDE20050928_022140_000000402041_00118_18709_0004.N1	28-SEP-2005 02:21:40	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	18709	No
17	GOM_TRA_1PNPDE20050928_022308_000000452041_00118_18709_0005.N1	28-SEP-2005 02:23:08	Dark	44.500	9	Alp Eri	0.45300	24000.	89	18709	No
18	GOM_TRA_1PNPDE20050928_022834_000000452041_00118_18709_0006.N1	28-SEP-2005 02:28:34	Twilight	44.500	84	Alp Phe	2.3970	4500.0	89	18709	No
19	GOM_TRA_1PNPDE20050928_023318_000000422041_00118_18709_0007.N1	28-SEP-2005 02:33:18	Bright	42.000	18	24Alp PsA	1.1660	9700.0	84	18709	No
20	GOM_TRA_1PNPDE20050928_024159_000000382041_00118_18709_0008.N1	28-SEP-2005 02:41:59	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	18709	No
21	GOM_TRA_1PNPDE20050928_024551_000000372041_00118_18709_0009.N1	28-SEP-2005 02:45:51	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	18709	No
22	GOM_TRA_1PNPDE20050928_030844_000000332041_00118_18709_0000.N1	28-SEP-2005 03:08:44	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	18709	No
23	GOM_TRA_1PNPDE20050928_031445_000000362041_00118_18709_0001.N1	28-SEP-2005 03:14:45	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	18709	No
24	GOM_TRA_1PNPDE20050928_031614_000000352041_00118_18709_0002.N1	28-SEP-2005 03:16:14	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	18709	No
25	GOM_TRA_1PNPDE20050928_031926_000000342041_00118_18709_0003.N1	28-SEP-2005 03:19:26	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18709	No
26	GOM_TRA_1PNPDE20050928_032604_000000352041_00118_18709_0004.N1	28-SEP-2005 03:26:04	Bright	34.500	166	17Eps Leo	2.9800	6000.0	69	18709	No
27	GOM_TRA_1PNPDE20050928_033531_000000512041_00118_18709_0005.N1	28-SEP-2005 03:35:31	Twilight	50.500	48	30Alp Hya	1.9770	4100.0	101	18709	No
28	GOM_TRA_1PNPDE20050928_034512_000000462041_00118_18709_0006.N1	28-SEP-2005 03:45:12	Dark	46.000	65	Lam Vel	2.2040	4400.0	92	18709	No
29	GOM_TRA_1PNPDE20050928_034830_000000412041_00118_18709_0007.N1	28-SEP-2005 03:48:30	Dark	40.500	46	Del Vel	1.9540	10600.	81	18709	No
30	GOM_TRA_1PNPDE20050928_035005_000000452041_00118_18709_0008.N1	28-SEP-2005 03:50:05	Dark	45.000	41	Eps Car	1.8600	4100.0	90	18709	No
31	GOM_TRA_1PNPDE20050928_040217_000000382041_00119_18710_0009.N1	28-SEP-2005 04:02:17	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	18710	No
32	GOM_TRA_1PNPDE20050928_040344_000000452041_00119_18710_0010.N1	28-SEP-2005 04:03:44	Dark	45.000	9	Alp Eri	0.45300	24000.	90	18710	No
33	GOM_TRA_1PNPDE20050928_040910_000000412041_00119_18710_0011.N1	28-SEP-2005 04:09:10	Twilight	41.000	84	Alp Phe	2.3970	4500.0	82	18710	No
34	GOM_TRA_1PNPDE20050928_041354_000000442041_00119_18710_0012.N1	28-SEP-2005 04:13:54	Bright	43.500	18	24Alp PsA	1.1660	9700.0	87	18710	No
35	GOM_TRA_1PNPDE20050928_042235_000000372041_00119_18710_0013.N1	28-SEP-2005 04:22:35	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	18710	No
36	GOM_TRA_1PNPDE20050928_045521_000000352041_00119_18710_0000.N1	28-SEP-2005 04:55:21	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	18710	No
37	GOM_TRA_1PNPDE20050928_045651_000000332041_00119_18710_0001.N1	28-SEP-2005 04:56:51	Bright	33.000	82	48Bet UMa	2.3650	10600.	66	18710	No
38	GOM_TRA_1PNPDE20050928_050002_000000322041_00119_18710_0002.N1	28-SEP-2005 05:00:02	Bright	32.000	174	52Psi UMa	3.0040	4400.0	64	18710	No
39	GOM_TRA_1PNPDE20050928_050641_000000352041_00119_18710_0003.N1	28-SEP-2005 05:06:41	Bright	35.000	166	17Eps Leo	2.9800	6000.0	70	18710	No
40	GOM_TRA_1PNPDE20050928_051607_000000442041_00119_18710_0004.N1	28-SEP-2005 05:16:07	Twilight	44.000	48	30Alp Hya	1.9770	4100.0	88	18710	No
41	GOM_TRA_1PNPDE20050928_052548_000000422041_00119_18710_0005.N1	28-SEP-2005 05:25:48	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	18710	No
42	GOM_TRA_1PNPDE20050928_052906_000000382041_00119_18710_0006.N1	28-SEP-2005 05:29:06	Dark	37.500	46	Del Vel	1.9540	10600.	75	18710	No
43	GOM_TRA_1PNPDE20050928_053041_000000432041_00119_18710_0007.N1	28-SEP-2005 05:30:41	Dark	42.500	41	Eps Car	1.8600	4100.0	85	18710	No
44	GOM_TRA_1PNPDE20050928_054253_000000392041_00120_18711_0008.N1	28-SEP-2005 05:42:53	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	18711	No
45	GOM_TRA_1PNPDE20050928_054421_000000422041_00120_18711_0009.N1	28-SEP-2005 05:44:21	Dark	41.500	9	Alp Eri	0.45300	24000.	83	18711	No
46	GOM_TRA_1PNPDE20050928_054946_000000432041_00120_18711_0010.N1	28-SEP-2005 05:49:46	Twilight	43.000	84	Alp Phe	2.3970	4500.0	86	18711	No

47	GOM_TRA_1PNPDE20050928_055431_000000402041_00120_18711_0011.N1	28-SEP-2005 05:54:31	Bright	39.500	18	24Alp PsA	1.1660	9700.0	79	18711	No
48	GOM_TRA_1PNPDE20050928_060311_000000382041_00120_18711_0012.N1	28-SEP-2005 06:03:11	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	18711	No
49	GOM_TRA_1PNPDE20050928_205512_000000482041_00129_18720_0000.N1	28-SEP-2005 20:55:12	Twilight	48.000	84	Alp Phe	2.3970	4500.0	96	18720	No
50	GOM_TRA_1PNPDE20050928_205955_000000442041_00129_18720_0001.N1	28-SEP-2005 20:59:55	Bright	43.500	18	24Alp PsA	1.1660	9700.0	87	18720	No

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



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

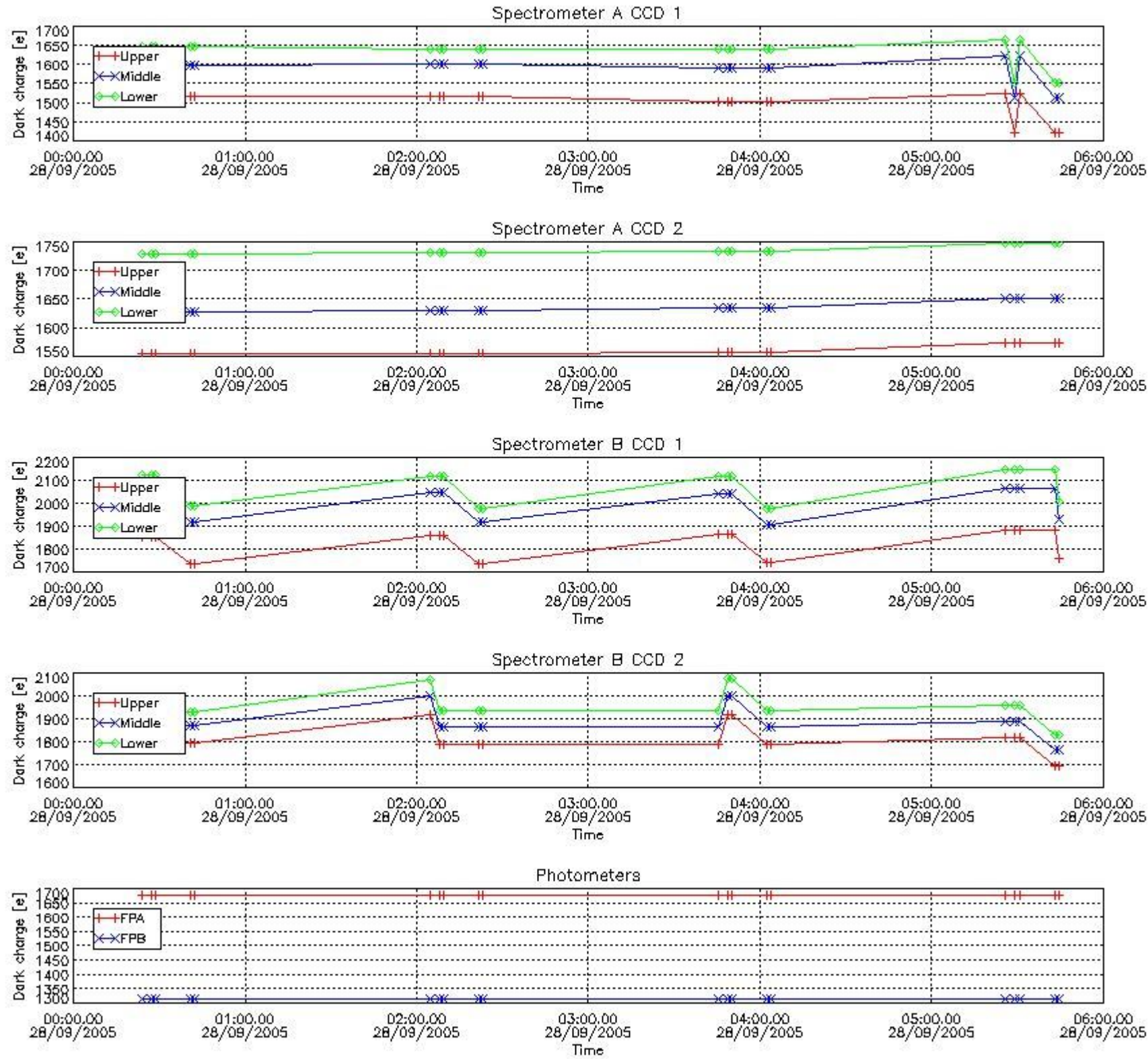
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20050928_205512_000000482041_00129_18720_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20050928_205955_000000442041_00129_18720_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



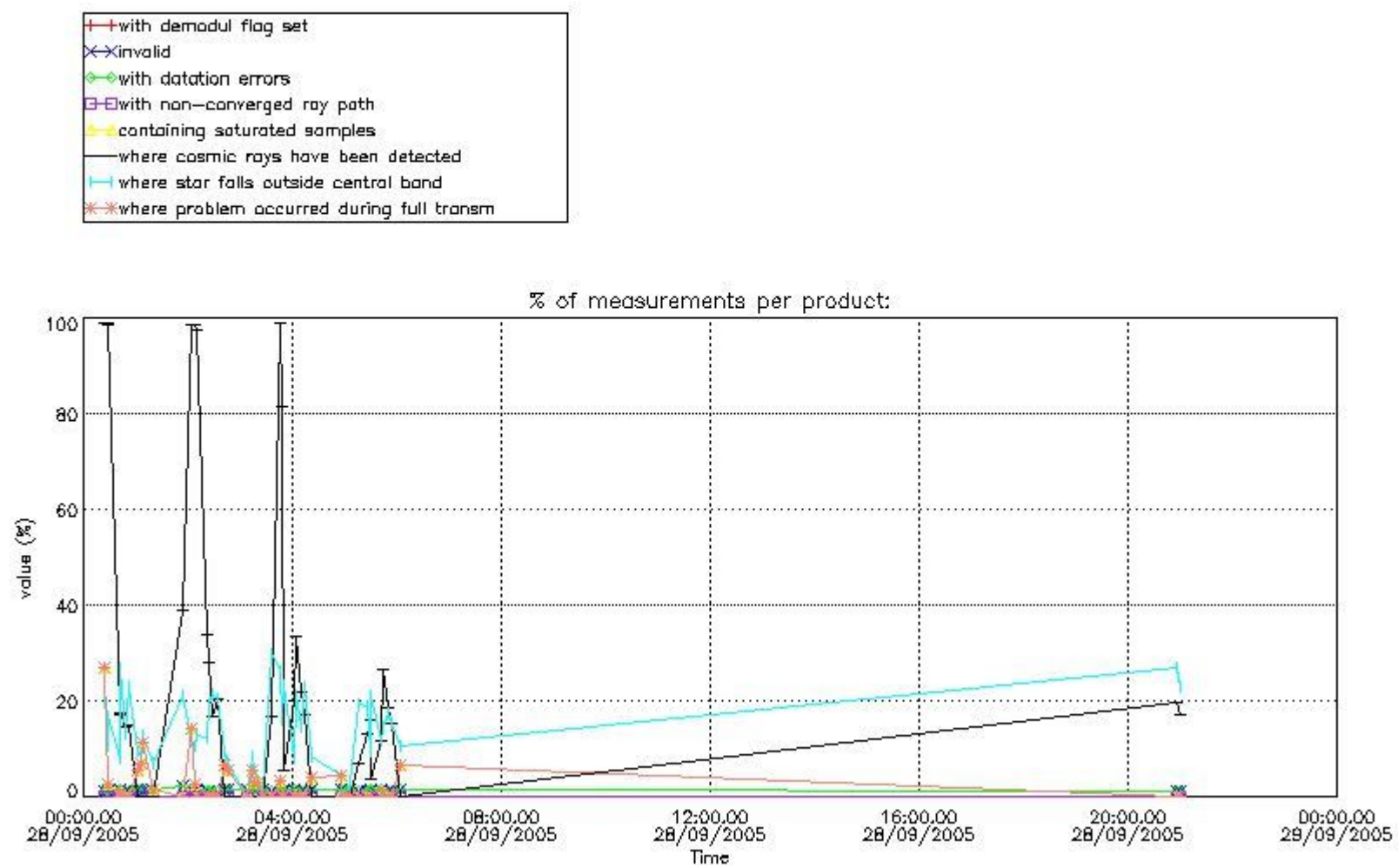
## 5. Demodulation flag and quality information monitoring

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.

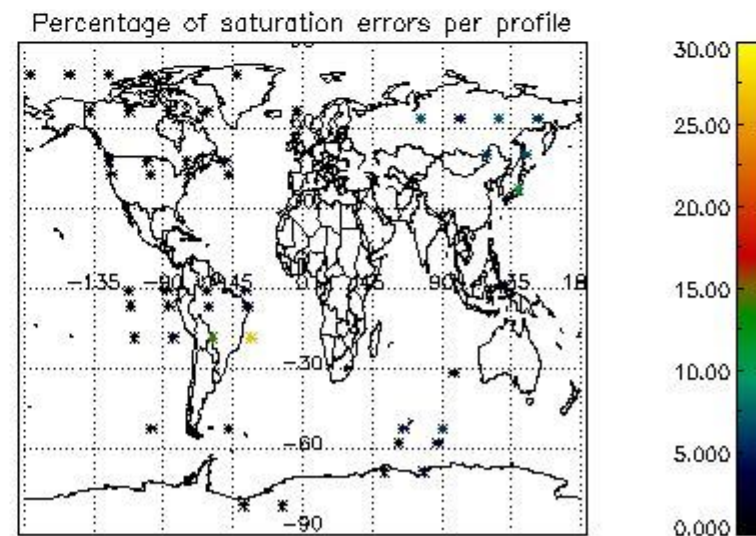
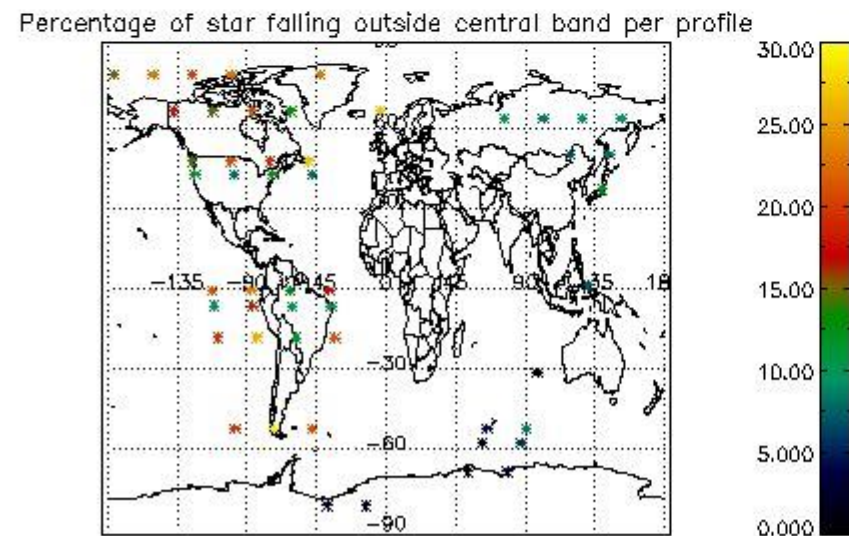
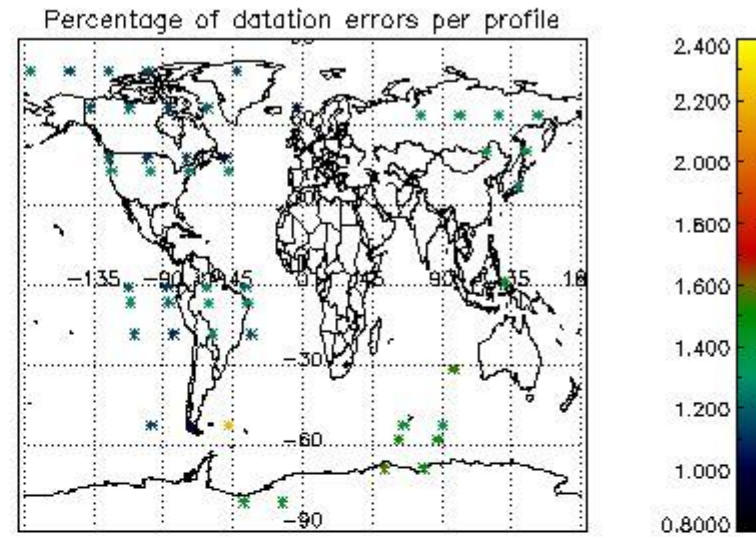
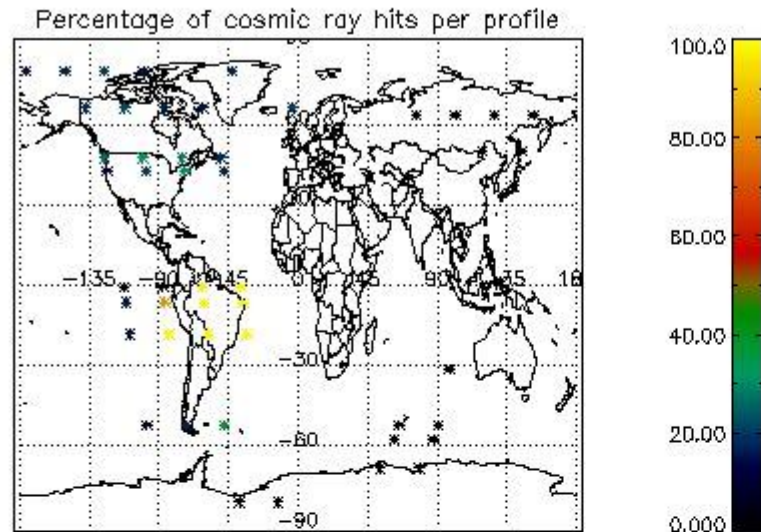
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
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)



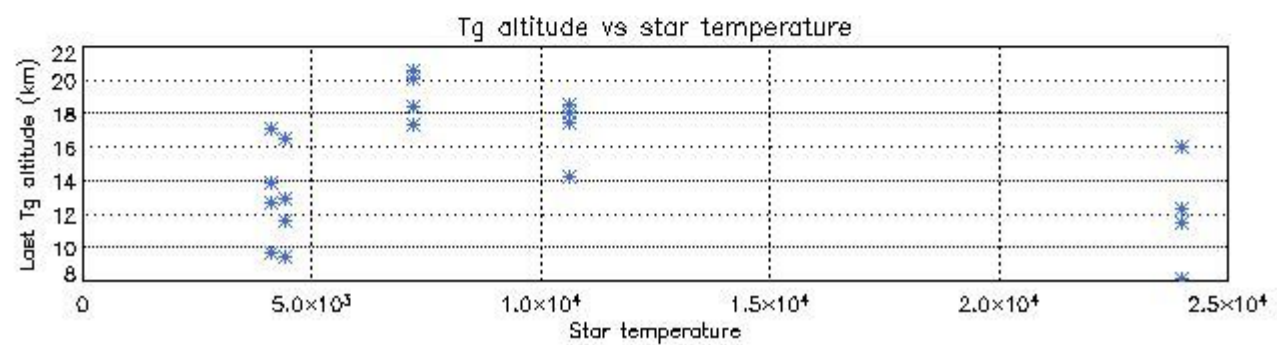
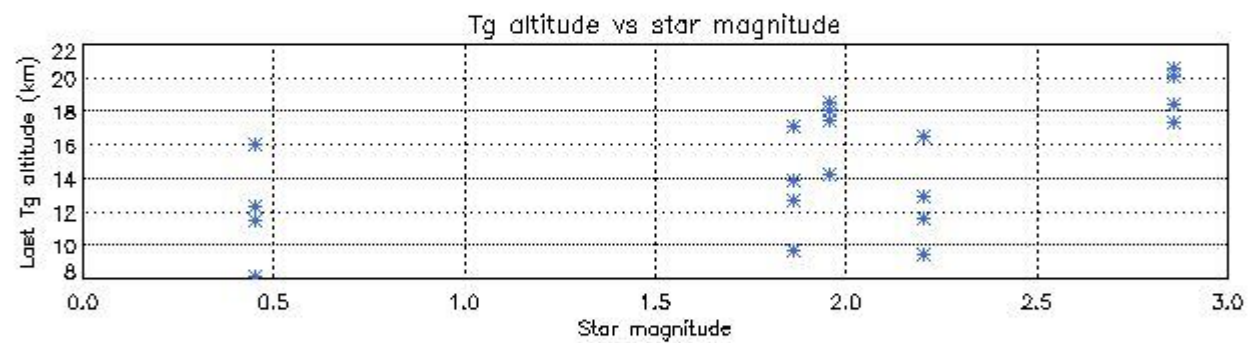
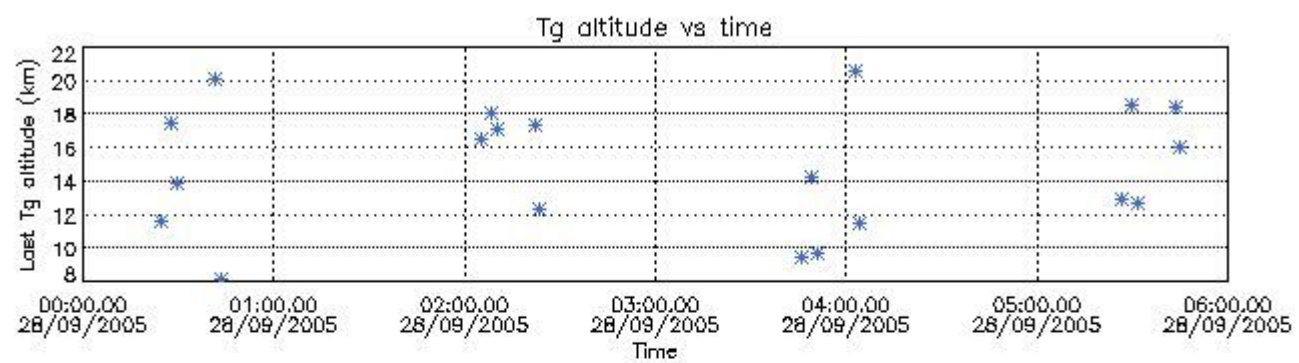
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.808	19.427	11.709
St. deviation:	3.6913	5.5506	3.3438
Maximum:	20.530	29.503	15.718
Minimum:	8.0831	10.674	6.1385
Number of data:	20.000	22.000	8.0000

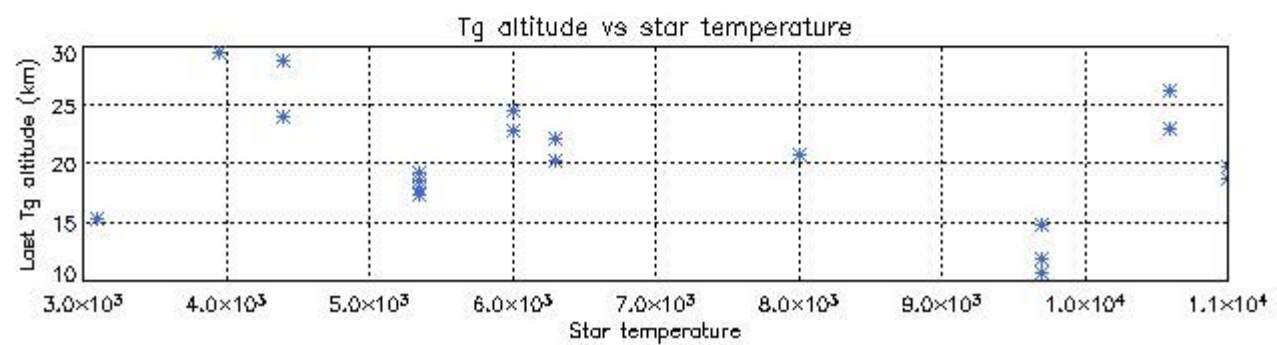
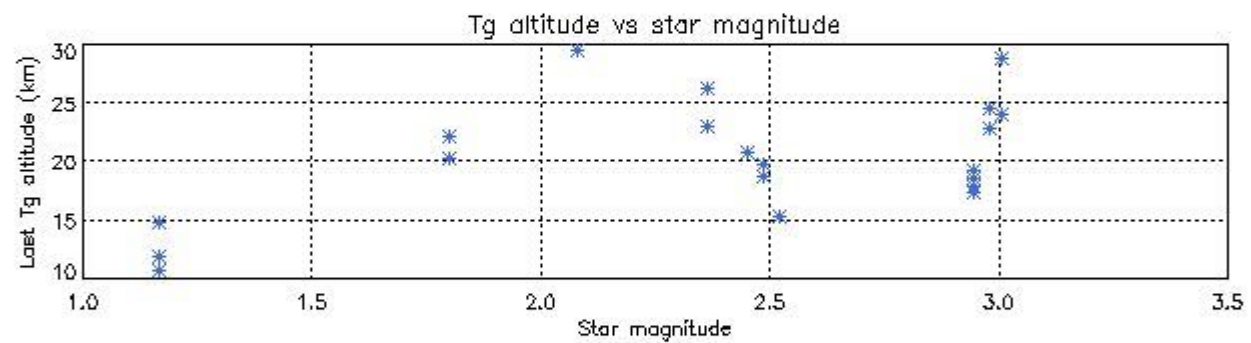
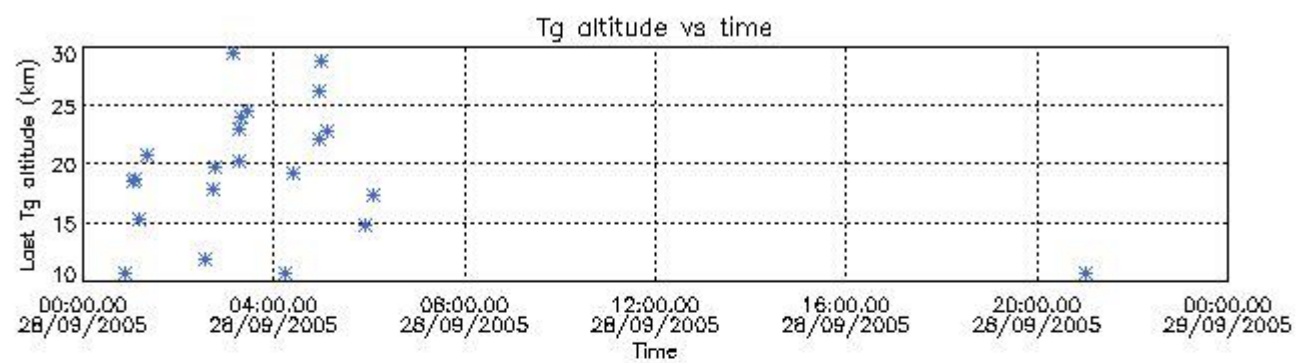
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

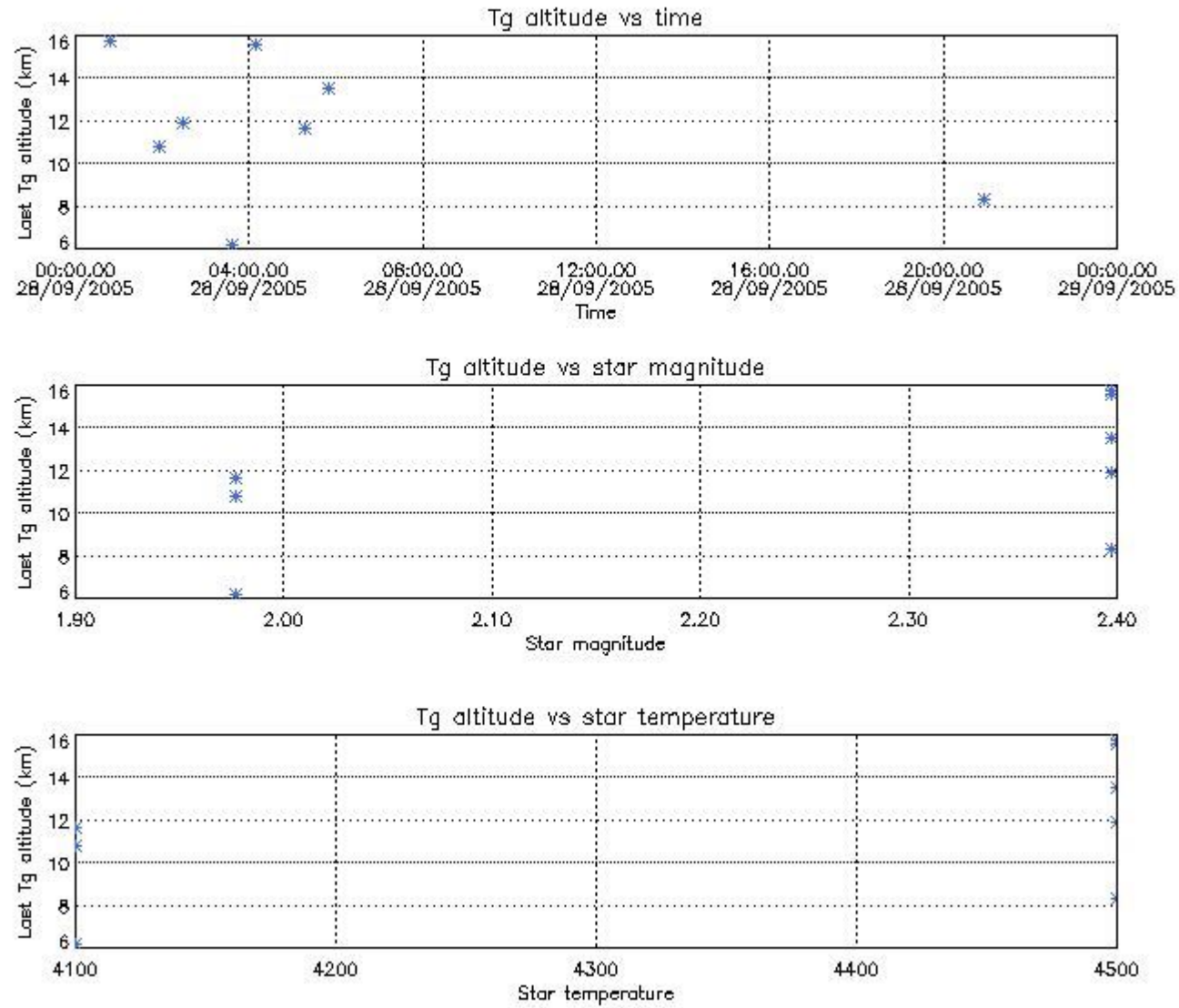
Tangent altitude at which the star is lost



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

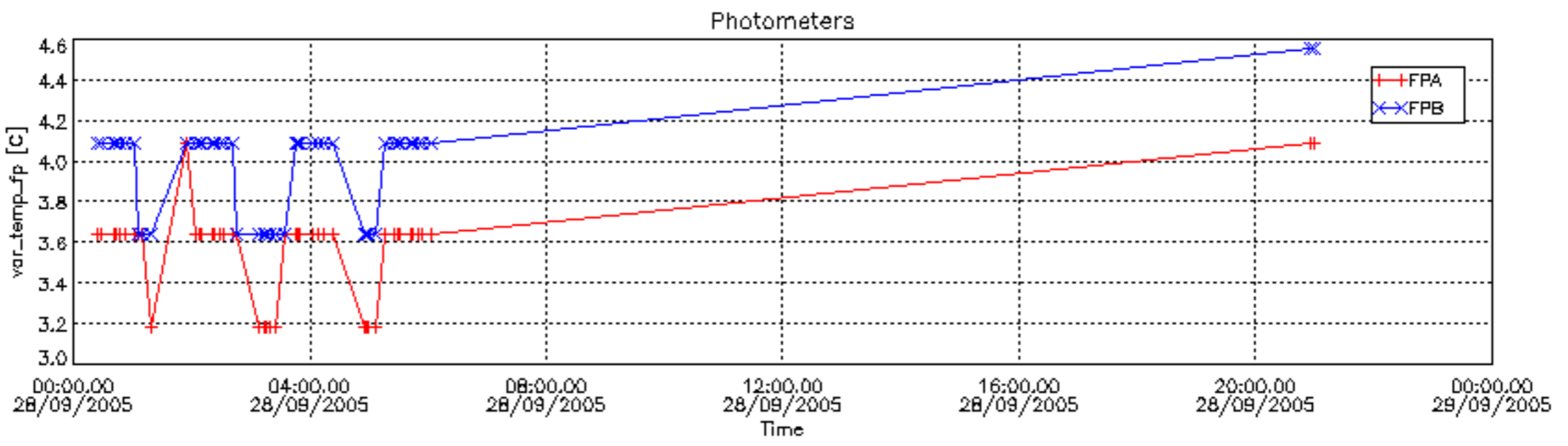
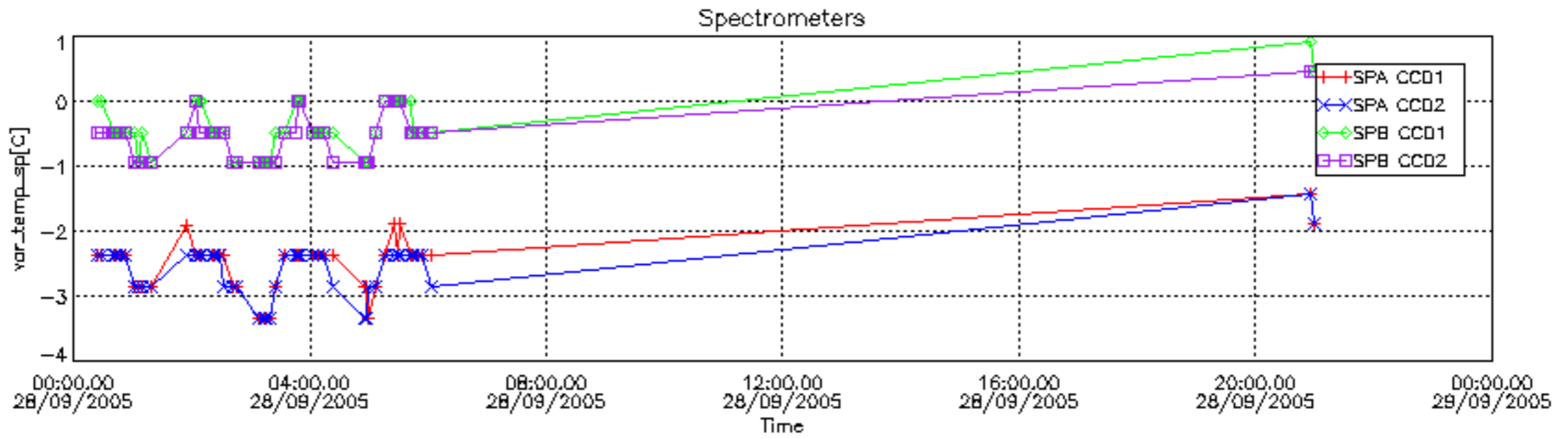
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

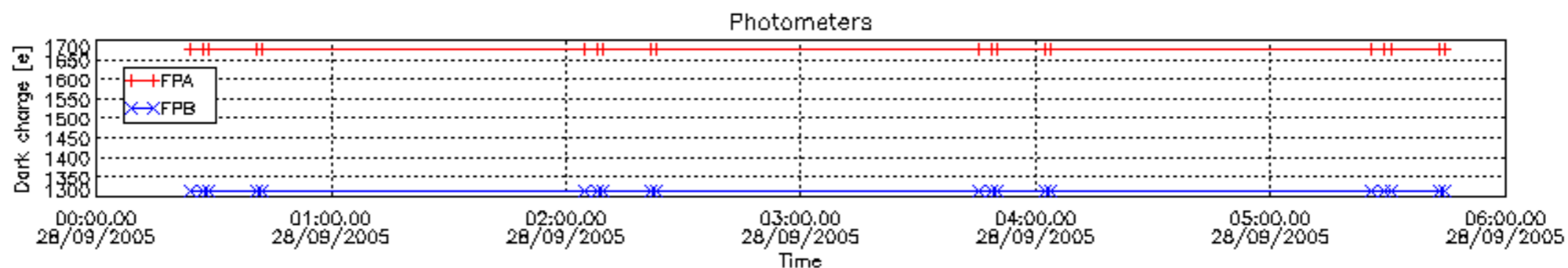
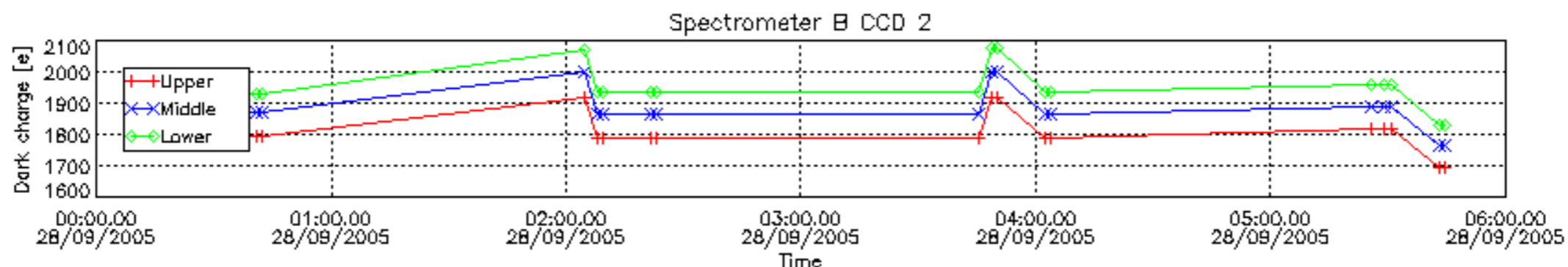
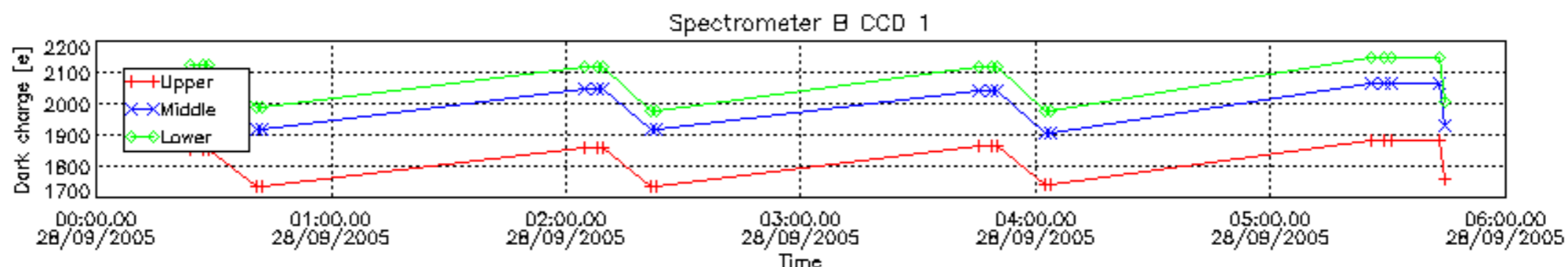
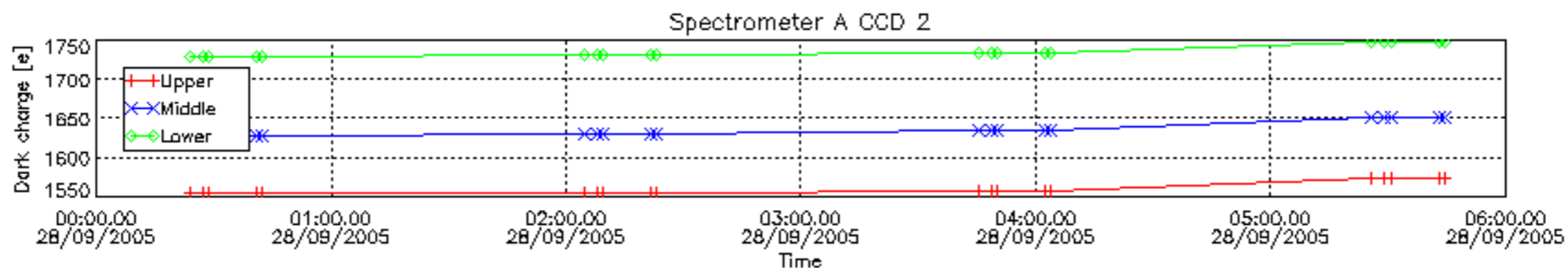
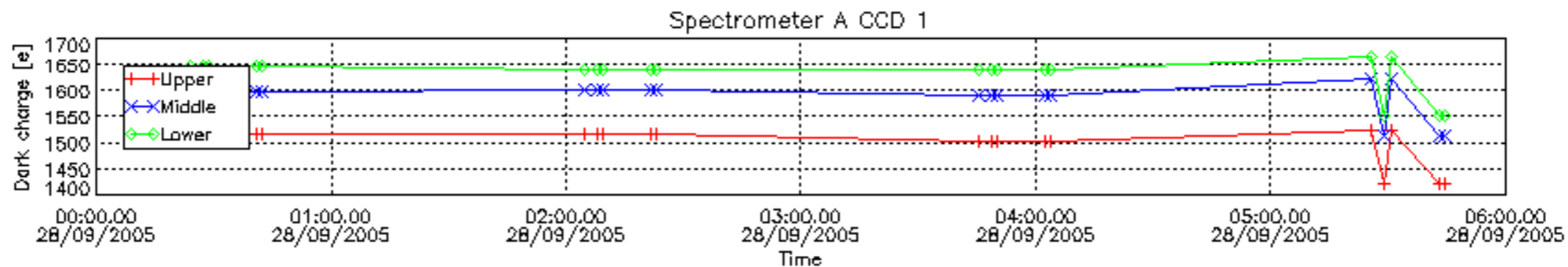
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.4	1446.3	1459.8	1447.1
St. deviation:	4.4875	9.7923	6.7842	12.486
Maximum:	1499.0	1496.0	1508.0	1503.0
Minimum:	1456.0	1431.0	1451.0	1421.0
Number of data:	17500.	17500.	18150.	18150.

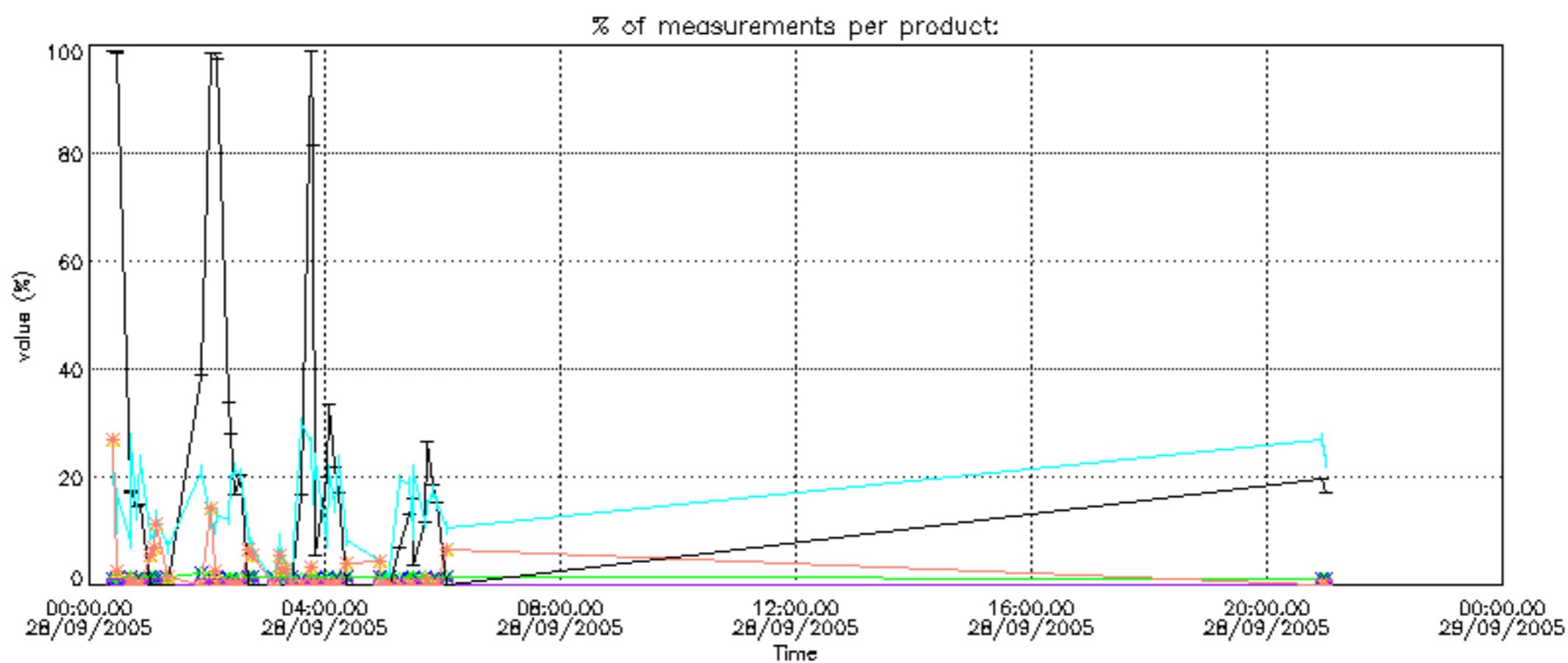
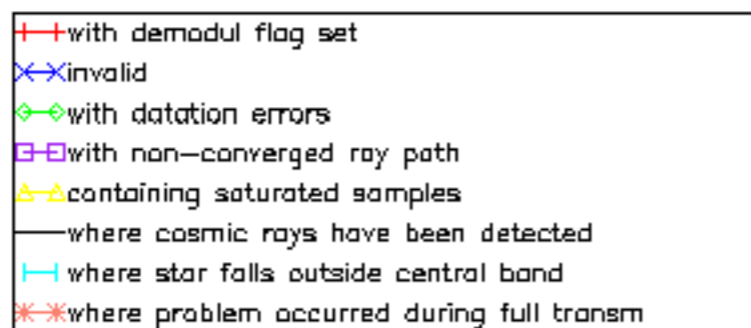
## 8. Auxiliary Data Files used for the production reported in section 2.2

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.

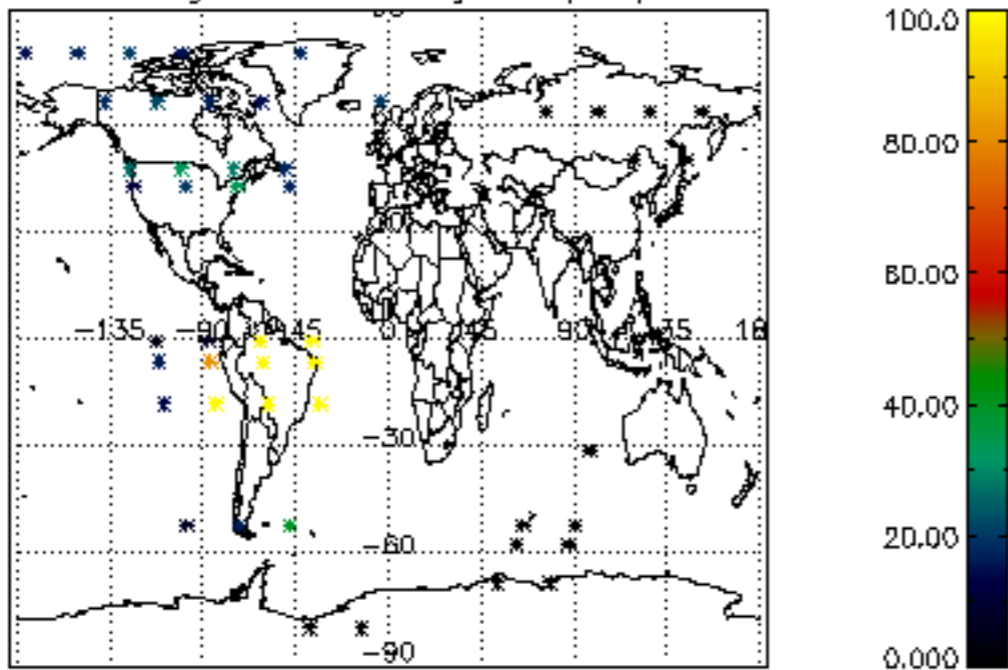
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	28-SEP-2005 00:23:59
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050919_104724_20050917_000000_20100101_000000	1	28-SEP-2005 00:23:59
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	28-SEP-2005 00:23:59
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-SEP-2005 00:23:59
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	28-SEP-2005 00:23:59
ECMWF_FILE	AUX_ECF_AXNECM20050927_060546_20050927_210000_20050928_090000	1	28-SEP-2005 00:23:59
ECMWF_FILE	AUX_ECF_AXNECM20050927_192808_20050928_030000_20050928_150000	22	28-SEP-2005 03:08:44
ECMWF_FILE	AUX_ECF_AXNECM20050928_060643_20050928_150000_20050929_030000	49	28-SEP-2005 20:55:12
OPTIONAL_ECMWF_FILE	NOT USED	1	28-SEP-2005 00:23:59
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050927_223631_20050927_192721_20051007_205334	1	28-SEP-2005 00:23:59



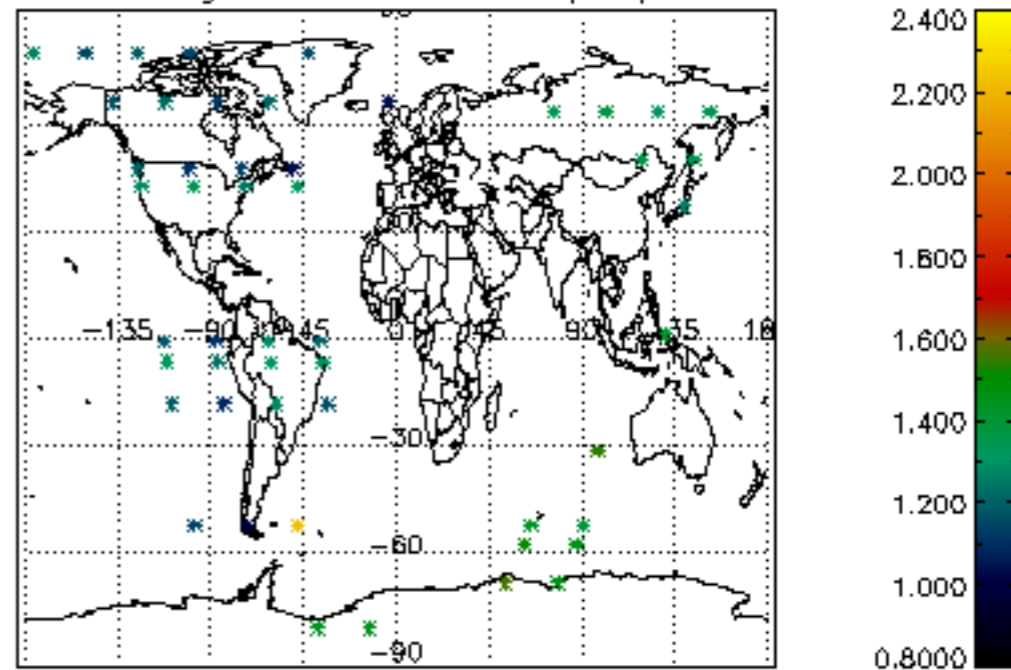




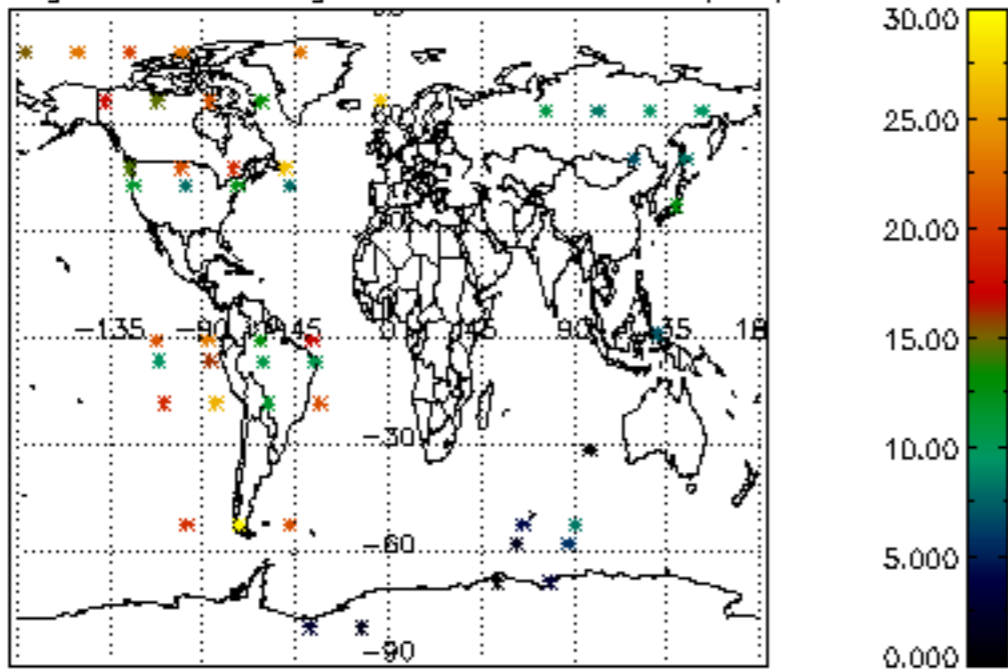
Percentage of cosmic ray hits per profile



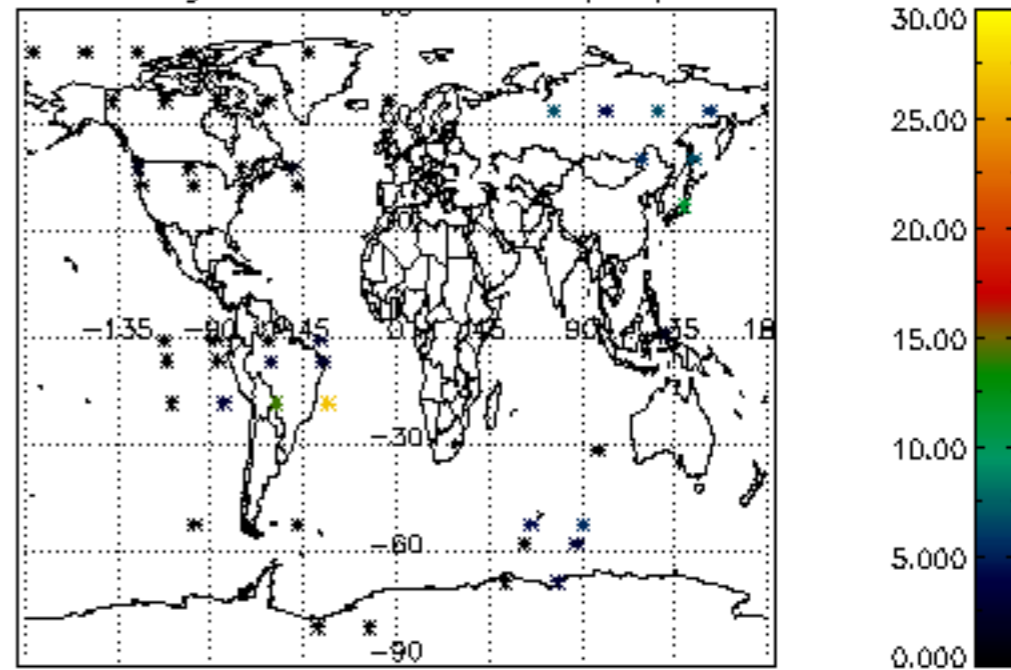
Percentage of datation errors per profile



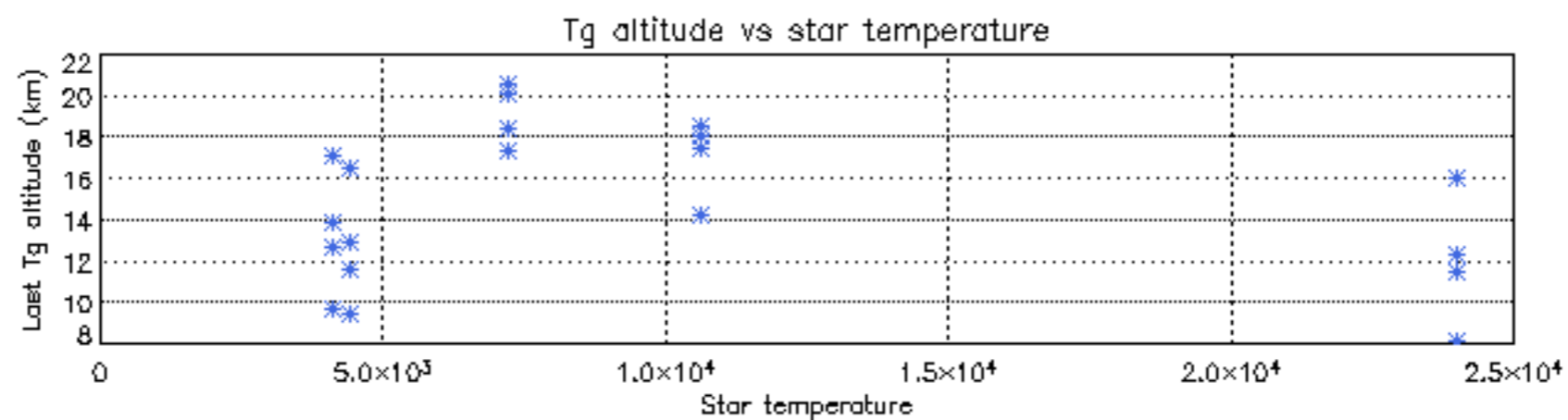
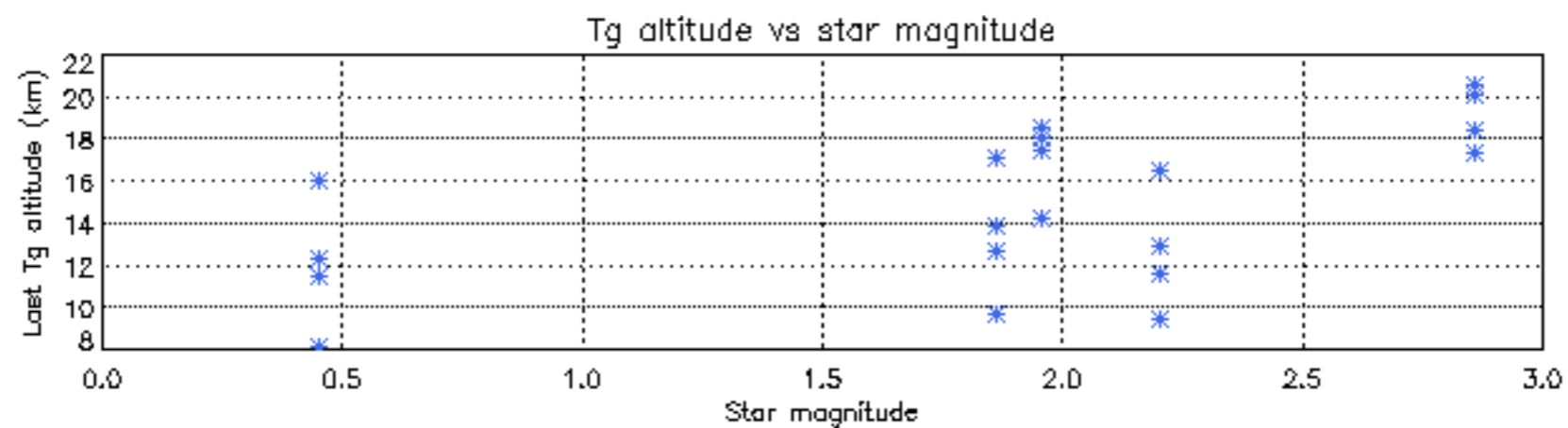
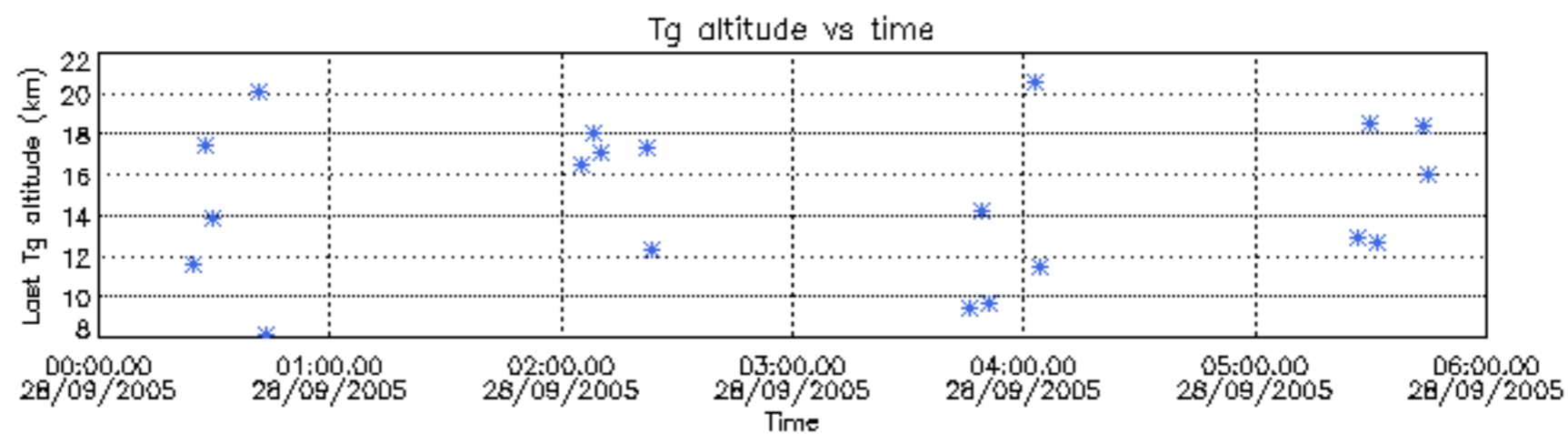
Percentage of star falling outside central band per profile



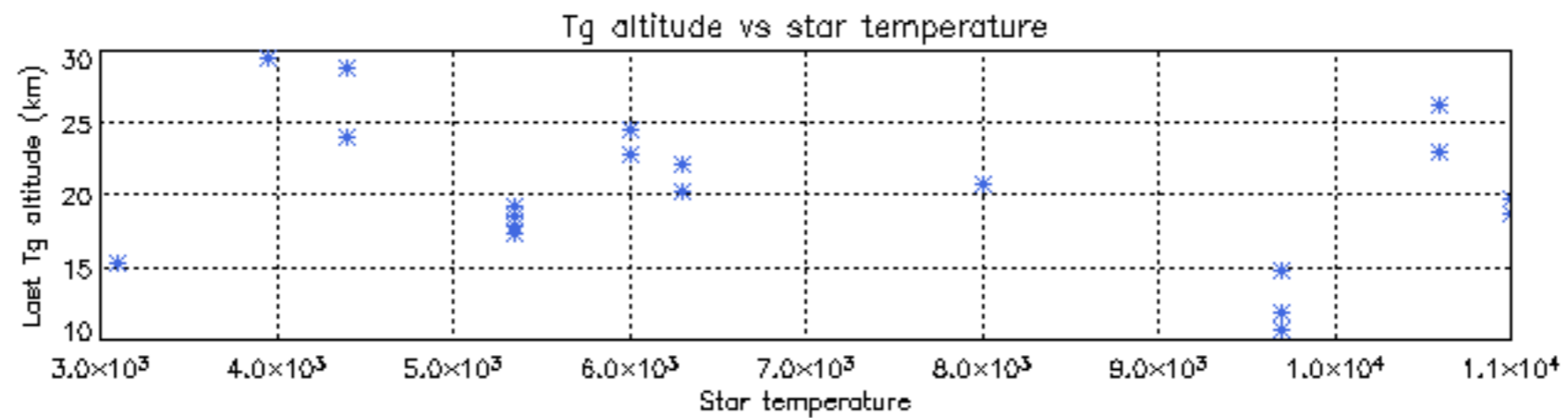
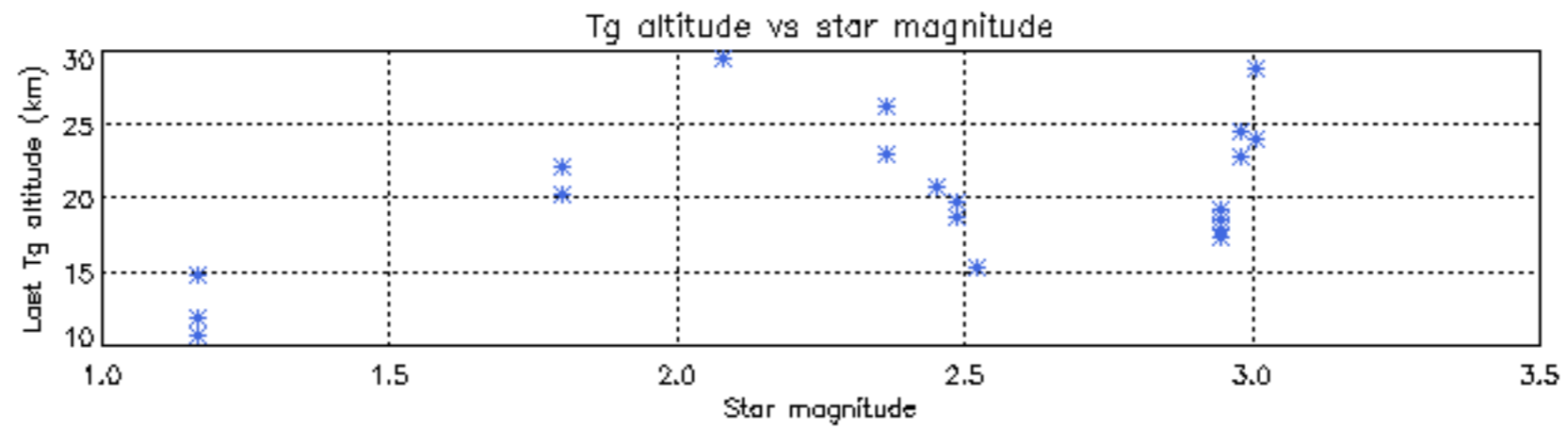
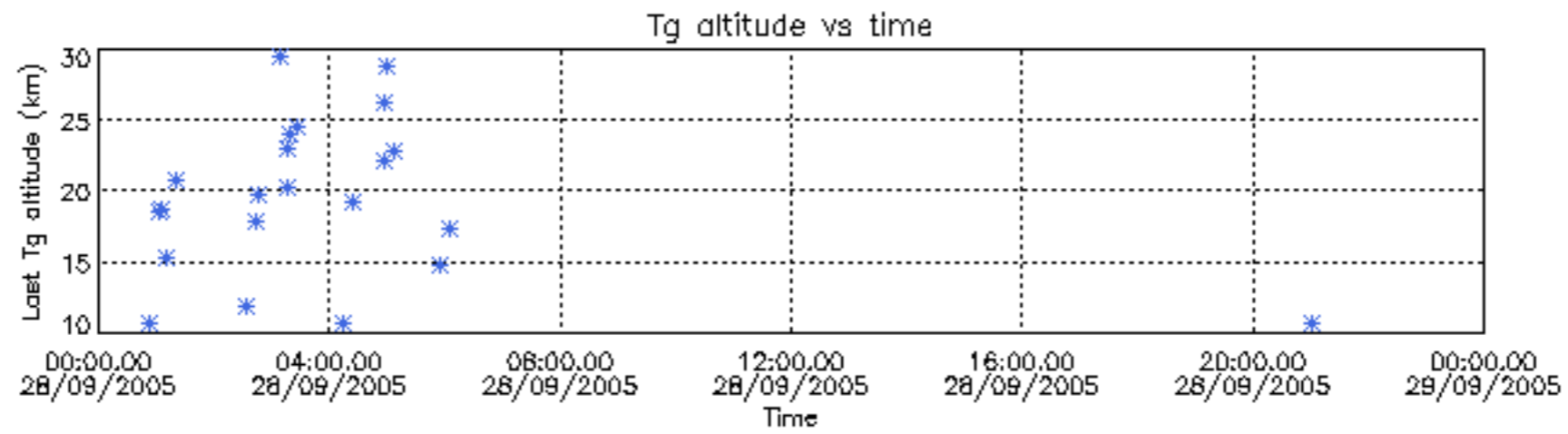
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

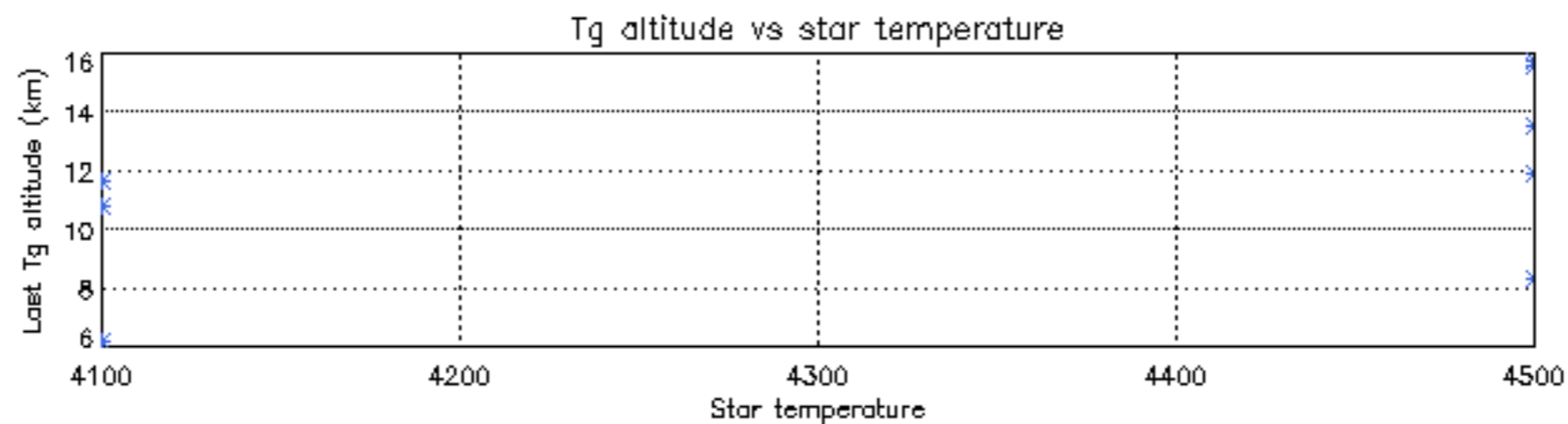
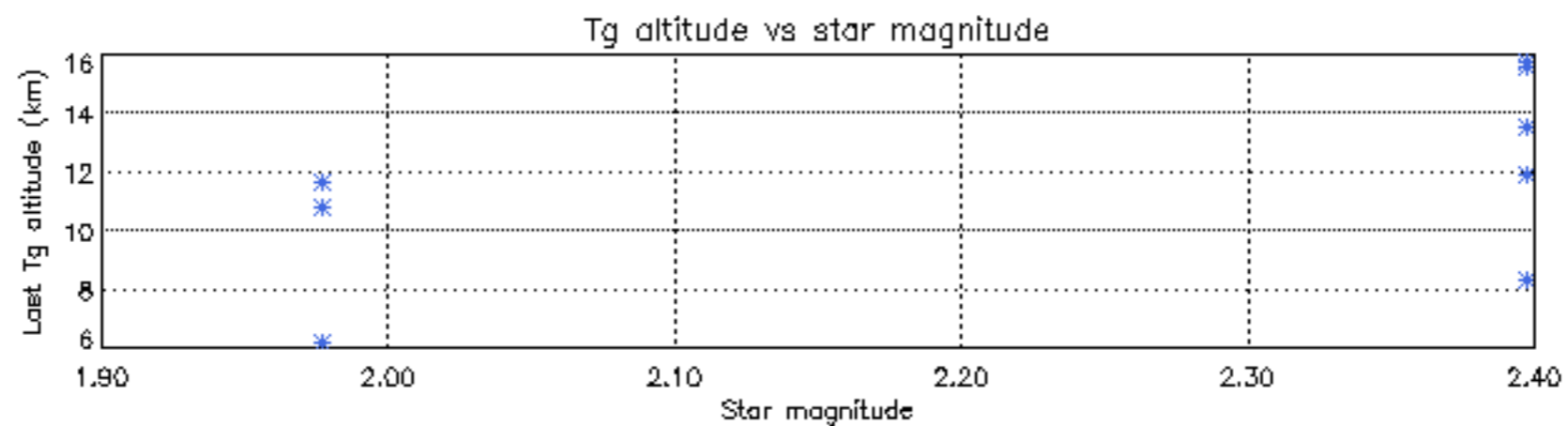
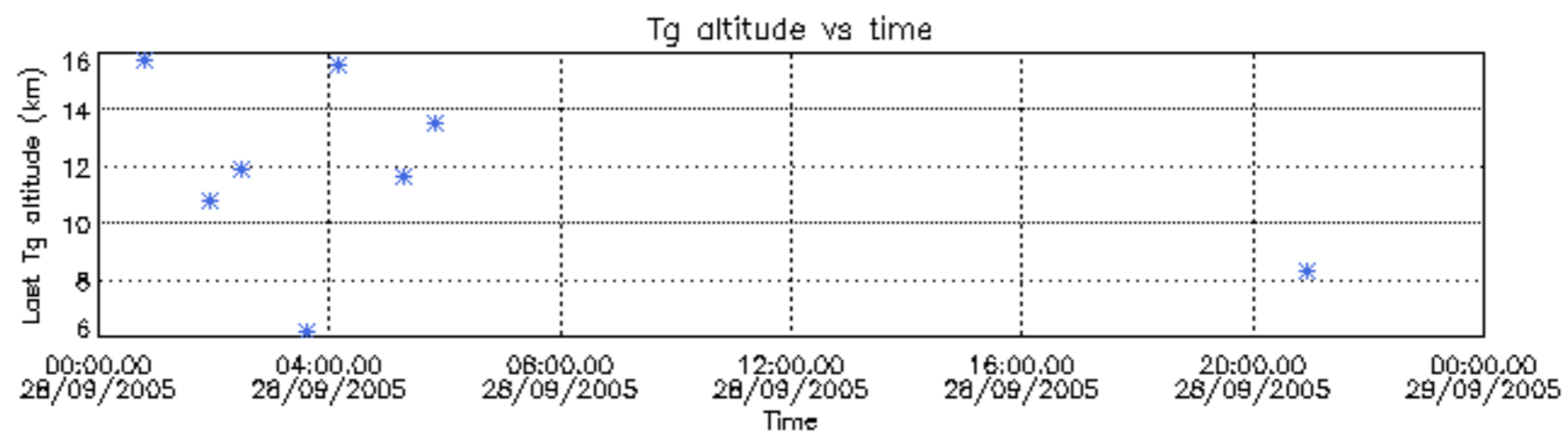


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



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15; 587.2; 22-SEP-2005 10:31:01; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;18628
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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
15; -97.2; 30-SEP-2005 19:31:28; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;18747
16; -1.9; 30-SEP-2005 19:33:04; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;18747
17; 731.3; 30-SEP-2005 19:45:17; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;18748

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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

