

# GOMOS Daily Report 27-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	29SEP2005 05:02:49

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (27SEP2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (28SEP2005 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)

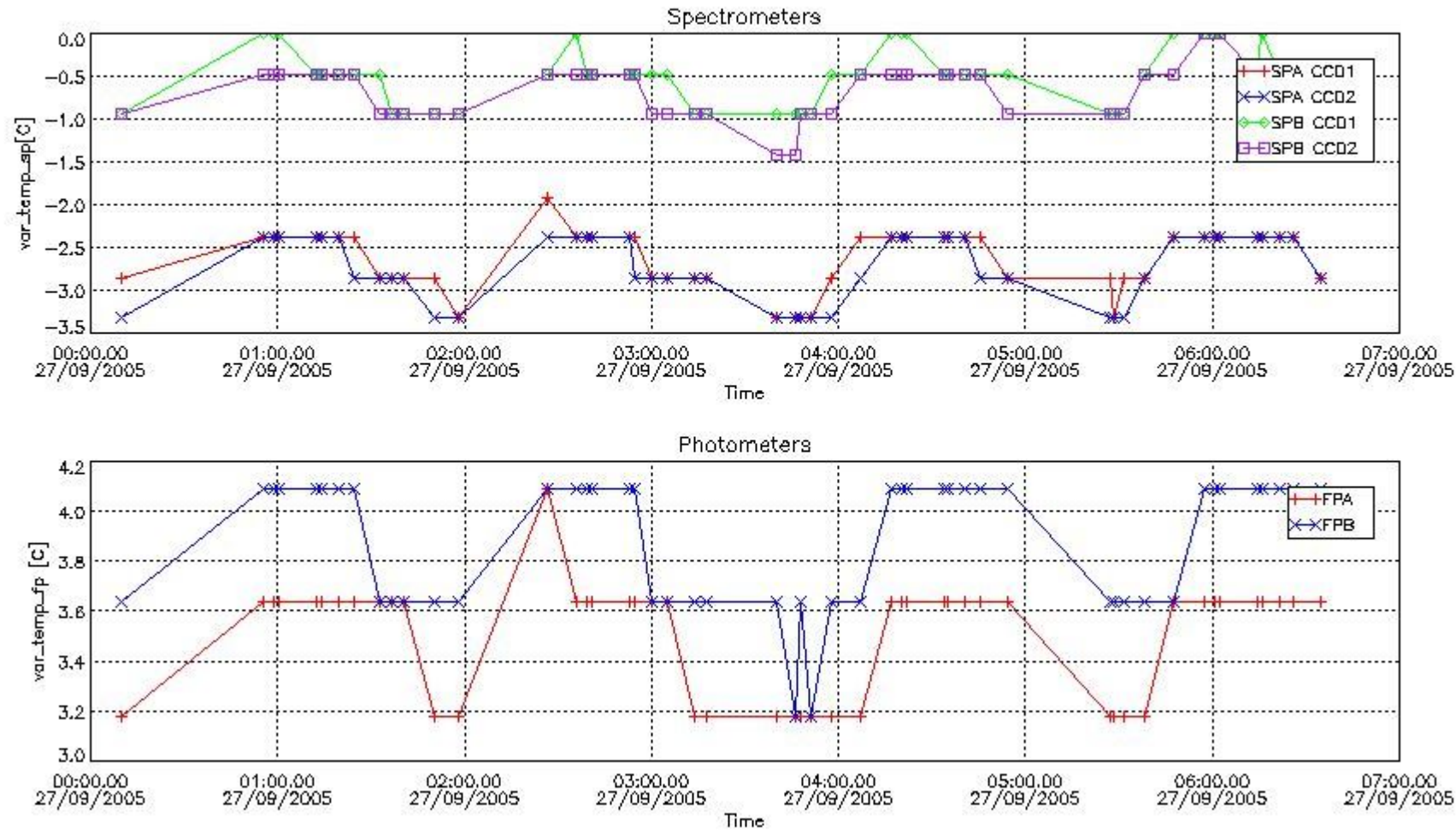
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20050927_000959_000000352041_00102_18693_0010.N1	27-SEP-2005 00:09:59	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	18693	No
2	GOM_TRA_1PNPDE20050927_005532_000000432041_00102_18693_0000.N1	27-SEP-2005 00:55:32	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	18693	No
3	GOM_TRA_1PNPDE20050927_005850_000000392041_00102_18693_0001.N1	27-SEP-2005 00:58:50	Dark	39.000	46	Del Vel	1.9540	10600.	78	18693	No
4	GOM_TRA_1PNPDE20050927_010025_000000442041_00102_18693_0002.N1	27-SEP-2005 01:00:25	Dark	44.000	41	Eps Car	1.8600	4100.0	88	18693	No
5	GOM_TRA_1PNPDE20050927_011235_000000412041_00103_18694_0003.N1	27-SEP-2005 01:12:35	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	18694	No
6	GOM_TRA_1PNPDE20050927_011403_000000512041_00103_18694_0004.N1	27-SEP-2005 01:14:03	Dark	51.000	9	Alp Eri	0.45300	24000.	102	18694	No
7	GOM_TRA_1PNPDE20050927_011930_000000422041_00103_18694_0005.N1	27-SEP-2005 01:19:30	Twilight	41.500	84	Alp Phe	2.3970	4500.0	83	18694	No
8	GOM_TRA_1PNPDE20050927_012417_000000462041_00103_18694_0006.N1	27-SEP-2005 01:24:17	Bright	45.500	18	24Alp PsA	1.1660	9700.0	91	18694	No
9	GOM_TRA_1PNPDE20050927_013257_000000382041_00103_18694_0007.N1	27-SEP-2005 01:32:57	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	18694	No
10	GOM_TRA_1PNPDE20050927_013652_000000372041_00103_18694_0008.N1	27-SEP-2005 01:36:52	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	18694	No
11	GOM_TRA_1PNPDE20050927_014033_000000392041_00103_18694_0009.N1	27-SEP-2005 01:40:33	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	18694	No
12	GOM_TRA_1PNPDE20050927_015035_000000372041_00103_18694_0010.N1	27-SEP-2005 01:50:35	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	18694	No
13	GOM_TRA_1PNPDE20050927_015755_000000362041_00103_18694_0011.N1	27-SEP-2005 01:57:55	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	18694	No
14	GOM_TRA_1PNPDE20050927_022627_000000392041_00103_18694_0000.N1	27-SEP-2005 02:26:27	Twilight	38.500	48	30Alp Hya	1.9770	4100.0	77	18694	No
15	GOM_TRA_1PNPDE20050927_023608_000000492041_00103_18694_0001.N1	27-SEP-2005 02:36:08	Dark	48.500	65	Lam Vel	2.2040	4400.0	97	18694	No
16	GOM_TRA_1PNPDE20050927_023926_000000412041_00103_18694_0002.N1	27-SEP-2005 02:39:26	Dark	40.500	46	Del Vel	1.9540	10600.	81	18694	No
17	GOM_TRA_1PNPDE20050927_024101_000000472041_00103_18694_0003.N1	27-SEP-2005 02:41:01	Dark	46.500	41	Eps Car	1.8600	4100.0	93	18694	No
18	GOM_TRA_1PNPDE20050927_025311_000000392041_00104_18695_0004.N1	27-SEP-2005 02:53:11	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	18695	No
19	GOM_TRA_1PNPDE20050927_025439_000000422041_00104_18695_0005.N1	27-SEP-2005 02:54:39	Dark	42.000	9	Alp Eri	0.45300	24000.	84	18695	No
20	GOM_TRA_1PNPDE20050927_030007_000000462041_00104_18695_0006.N1	27-SEP-2005 03:00:07	Twilight	46.000	84	Alp Phe	2.3970	4500.0	92	18695	No
21	GOM_TRA_1PNPDE20050927_030453_000000442041_00104_18695_0007.N1	27-SEP-2005 03:04:53	Bright	43.500	18	24Alp PsA	1.1660	9700.0	87	18695	No
22	GOM_TRA_1PNPDE20050927_031333_000000382041_00104_18695_0008.N1	27-SEP-2005 03:13:33	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	18695	No
23	GOM_TRA_1PNPDE20050927_031728_000000372041_00104_18695_0009.N1	27-SEP-2005 03:17:28	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	18695	No
24	GOM_TRA_1PNPDE20050927_034018_000000332041_00104_18695_0000.N1	27-SEP-2005 03:40:18	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	18695	No
25	GOM_TRA_1PNPDE20050927_034620_000000372041_00104_18695_0001.N1	27-SEP-2005 03:46:20	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	18695	No
26	GOM_TRA_1PNPDE20050927_034749_000000522041_00104_18695_0002.N1	27-SEP-2005 03:47:49	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	18695	No
27	GOM_TRA_1PNPDE20050927_035100_000000332041_00104_18695_0003.N1	27-SEP-2005 03:51:00	Bright	32.500	174	52Psi UMa	3.0040	4400.0	65	18695	No
28	GOM_TRA_1PNPDE20050927_035739_000000352041_00104_18695_0004.N1	27-SEP-2005 03:57:39	Bright	35.000	166	17Eps Leo	2.9800	6000.0	70	18695	No
29	GOM_TRA_1PNPDE20050927_040703_000000392041_00104_18695_0005.N1	27-SEP-2005 04:07:03	Twilight	39.000	48	30Alp Hya	1.9770	4100.0	78	18695	No
30	GOM_TRA_1PNPDE20050927_041644_000000452041_00104_18695_0006.N1	27-SEP-2005 04:16:44	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	18695	No
31	GOM_TRA_1PNPDE20050927_042002_000000382041_00104_18695_0007.N1	27-SEP-2005 04:20:02	Dark	37.500	46	Del Vel	1.9540	10600.	75	18695	No
32	GOM_TRA_1PNPDE20050927_042137_000000482041_00104_18695_0008.N1	27-SEP-2005 04:21:37	Dark	48.000	41	Eps Car	1.8600	4100.0	96	18695	No
33	GOM_TRA_1PNPDE20050927_043348_000000402041_00105_18696_0009.N1	27-SEP-2005 04:33:48	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	18696	No
34	GOM_TRA_1PNPDE20050927_043515_000000422041_00105_18696_0010.N1	27-SEP-2005 04:35:15	Dark	42.000	9	Alp Eri	0.45300	24000.	84	18696	No
35	GOM_TRA_1PNPDE20050927_044043_000000422041_00105_18696_0011.N1	27-SEP-2005 04:40:43	Twilight	41.500	84	Alp Phe	2.3970	4500.0	83	18696	No
36	GOM_TRA_1PNPDE20050927_044529_000000442041_00105_18696_0012.N1	27-SEP-2005 04:45:29	Bright	43.500	18	24Alp PsA	1.1660	9700.0	87	18696	No
37	GOM_TRA_1PNPDE20050927_045409_000000382041_00105_18696_0013.N1	27-SEP-2005 04:54:09	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	18696	No
38	GOM_TRA_1PNPDE20050927_052656_000000372041_00105_18696_0000.N1	27-SEP-2005 05:26:56	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	18696	No
39	GOM_TRA_1PNPDE20050927_052826_000000522041_00105_18696_0001.N1	27-SEP-2005 05:28:26	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	18696	No
40	GOM_TRA_1PNPDE20050927_053136_000000332041_00105_18696_0002.N1	27-SEP-2005 05:31:36	Bright	32.500	174	52Psi UMa	3.0040	4400.0	65	18696	No
41	GOM_TRA_1PNPDE20050927_053815_000000342041_00105_18696_0003.N1	27-SEP-2005 05:38:15	Bright	34.000	166	17Eps Leo	2.9800	6000.0	68	18696	No
42	GOM_TRA_1PNPDE20050927_054739_000000462041_00105_18696_0004.N1	27-SEP-2005 05:47:39	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	18696	No
43	GOM_TRA_1PNPDE20050927_055720_000000422041_00105_18696_0005.N1	27-SEP-2005 05:57:20	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	18696	No
44	GOM_TRA_1PNPDE20050927_060039_000000412041_00105_18696_0006.N1	27-SEP-2005 06:00:39	Dark	41.000	46	Del Vel	1.9540	10600.	82	18696	No
45	GOM_TRA_1PNPDE20050927_060214_000000422041_00105_18696_0007.N1	27-SEP-2005 06:02:14	Dark	42.000	41	Eps Car	1.8600	4100.0	84	18696	No
46	GOM_TRA_1PNPDE20050927_061424_000000382041_00106_18697_0008.N1	27-SEP-2005 06:14:24	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	18697	No

47	GOM_TRA_1PNPDE20050927_061552_000000412041_00106_18697_0009.N1	27-SEP-2005 06:15:52	Dark	40.500	9	Alp Eri	0.45300	24000.	81	18697	No
48	GOM_TRA_1PNPDE20050927_062119_000000452041_00106_18697_0010.N1	27-SEP-2005 06:21:19	Twilight	44.500	84	Alp Phe	2.3970	4500.0	89	18697	No
49	GOM_TRA_1PNPDE20050927_062605_000000412041_00106_18697_0011.N1	27-SEP-2005 06:26:05	Bright	41.000	18	24Alp PsA	1.1660	9700.0	82	18697	No
50	GOM_TRA_1PNPDE20050927_063445_000000372041_00106_18697_0012.N1	27-SEP-2005 06:34:45	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	18697	No

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



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

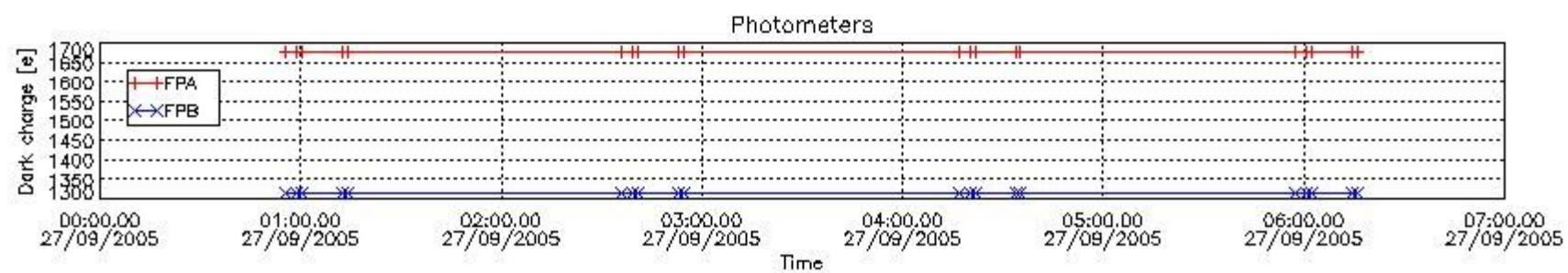
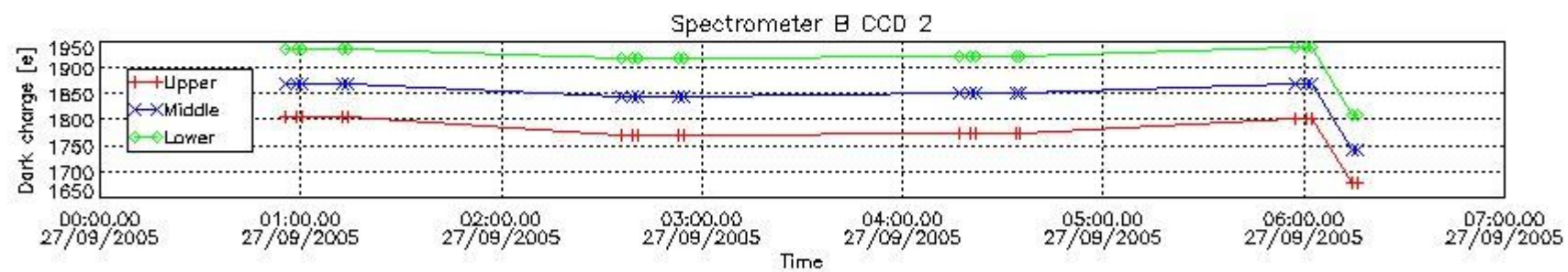
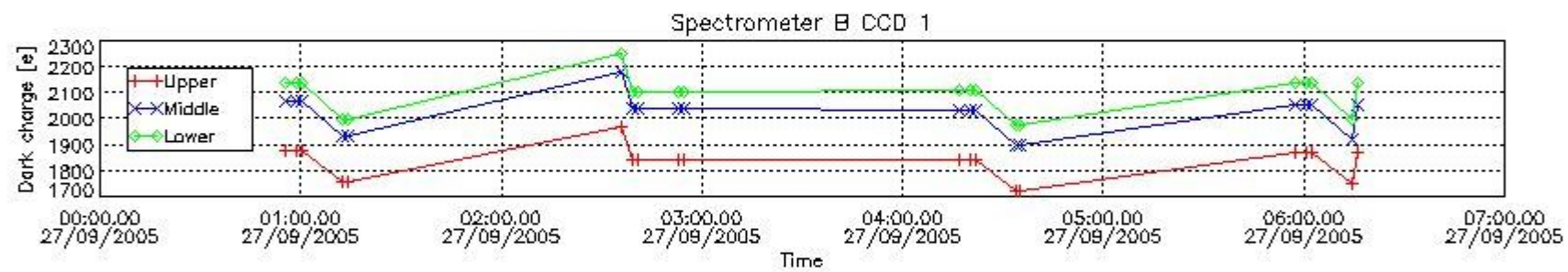
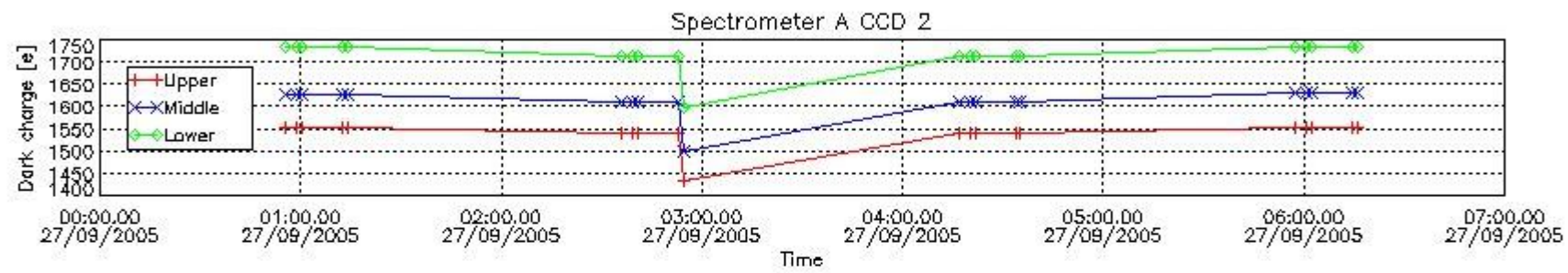
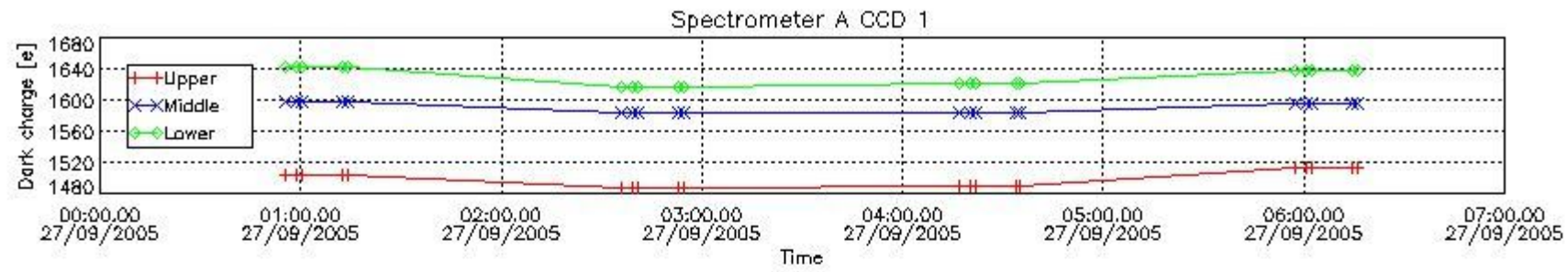
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





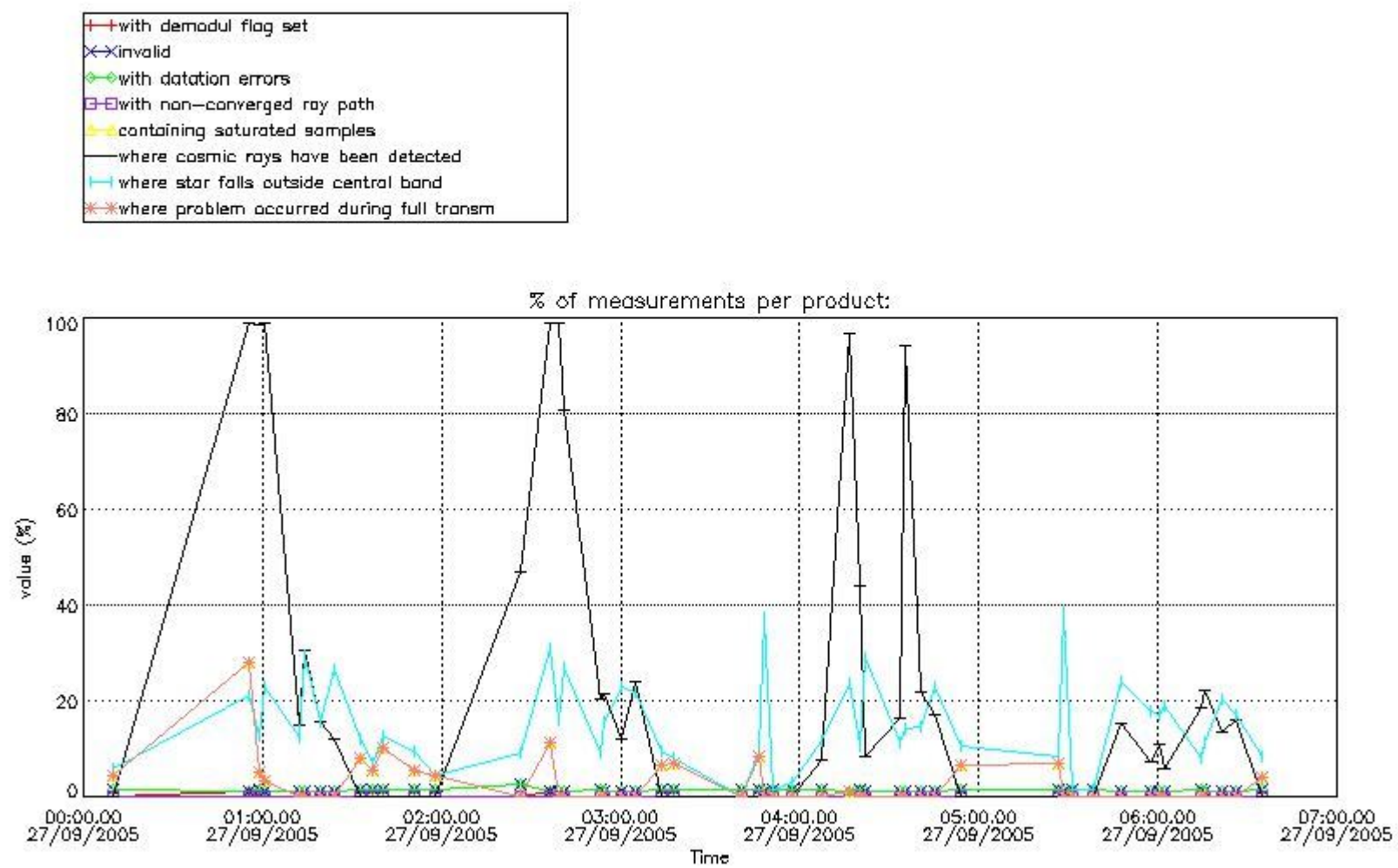
## 5. Demodulation flag and quality information monitoring

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:

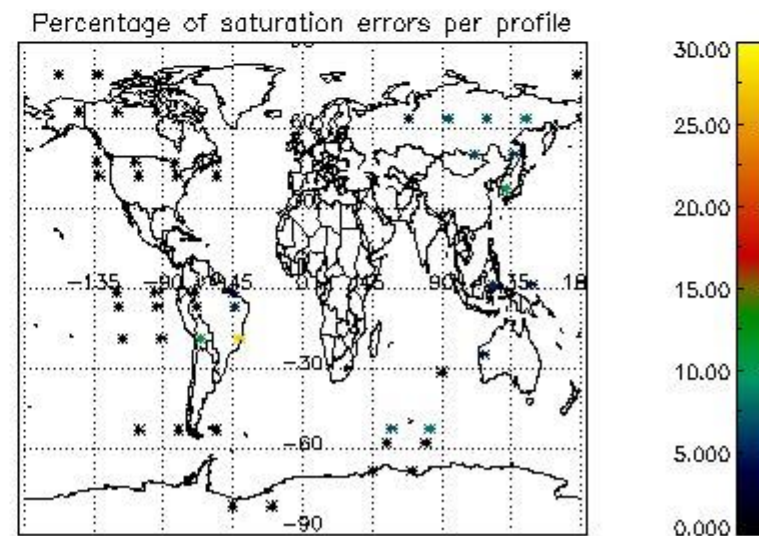
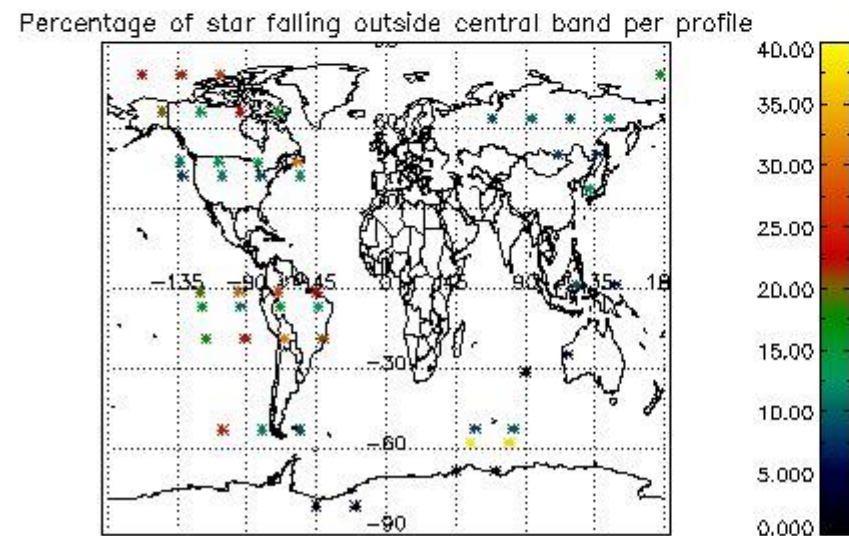
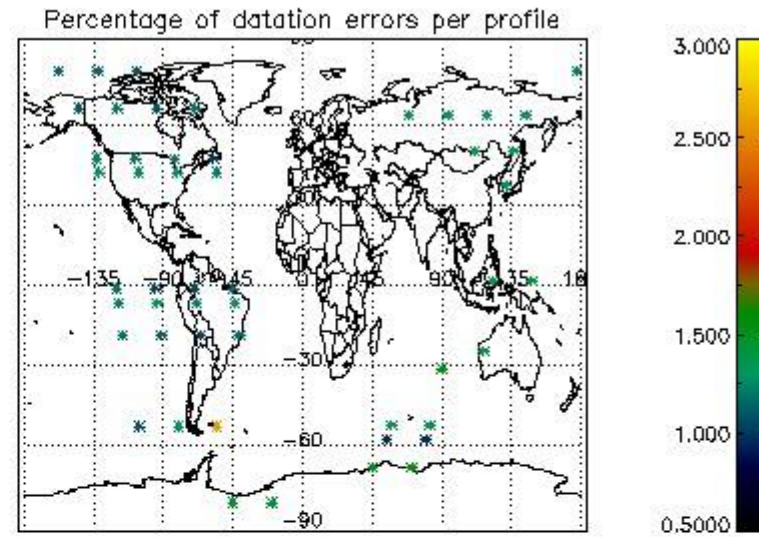
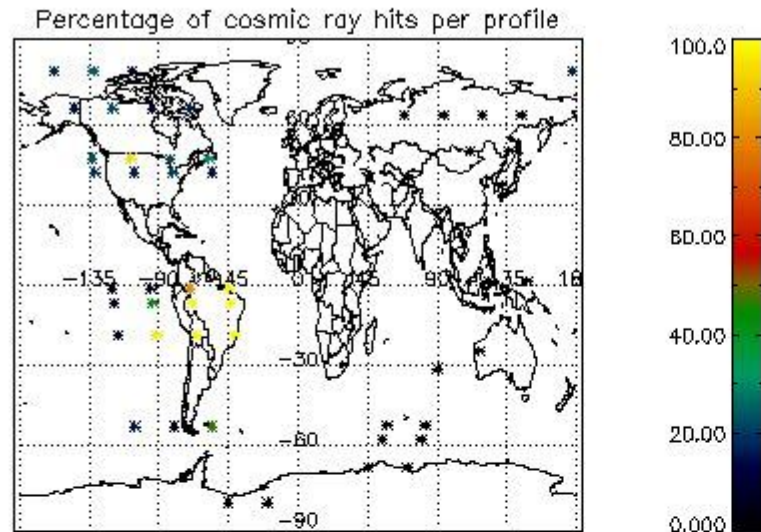
At least one measurement with demodulation flag set:	18.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





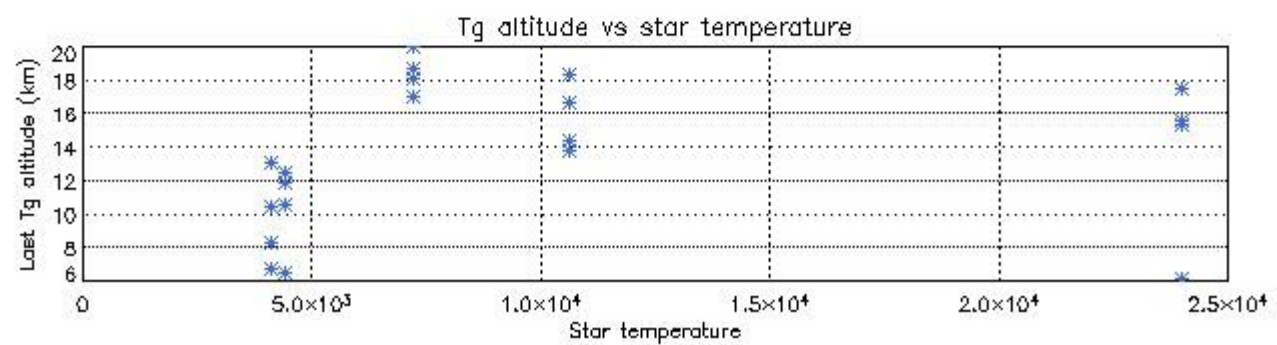
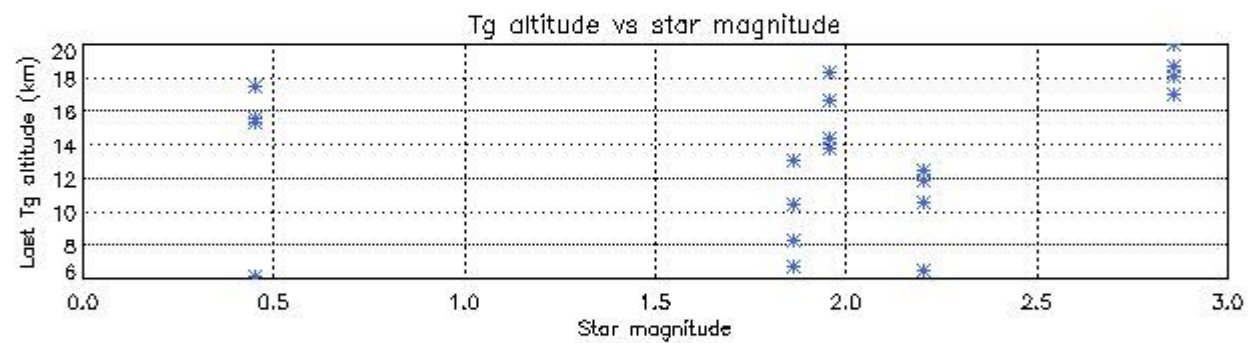
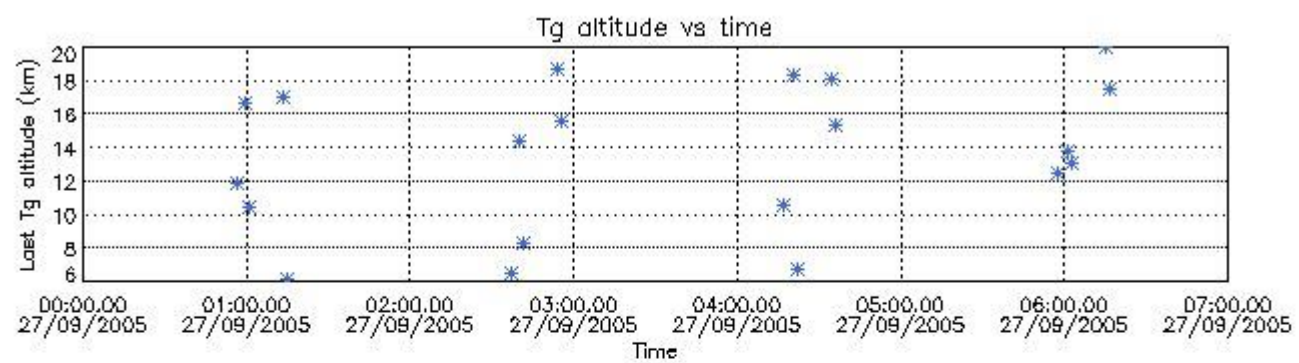
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.545	17.778	13.823
St. deviation:	4.3566	6.9496	2.9864
Maximum:	19.971	29.452	16.901
Minimum:	6.1317	3.2226	9.8376
Number of data:	20.000	23.000	7.0000

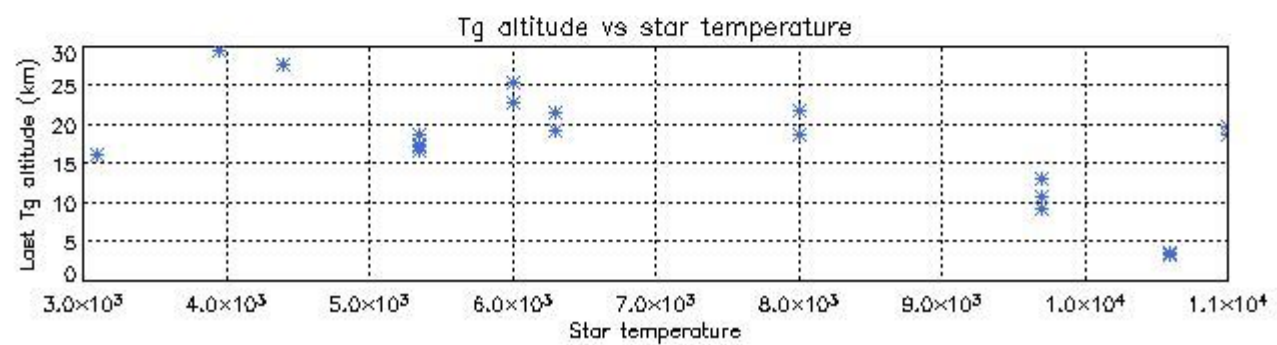
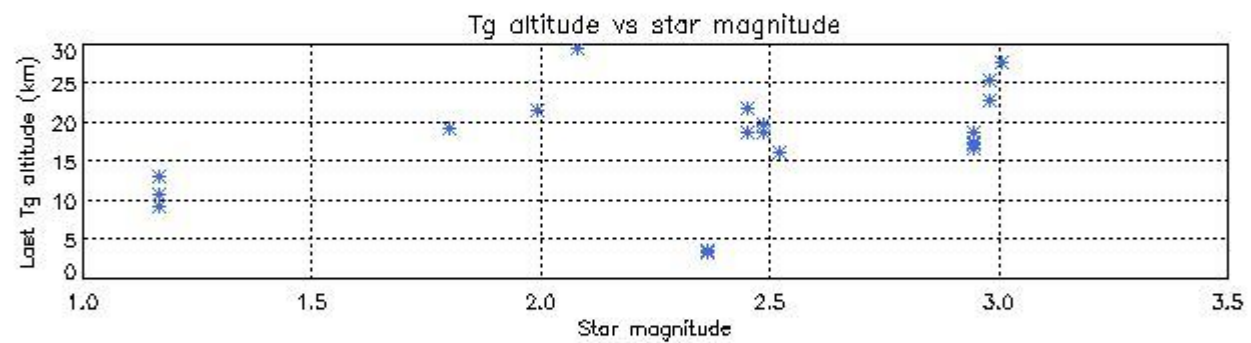
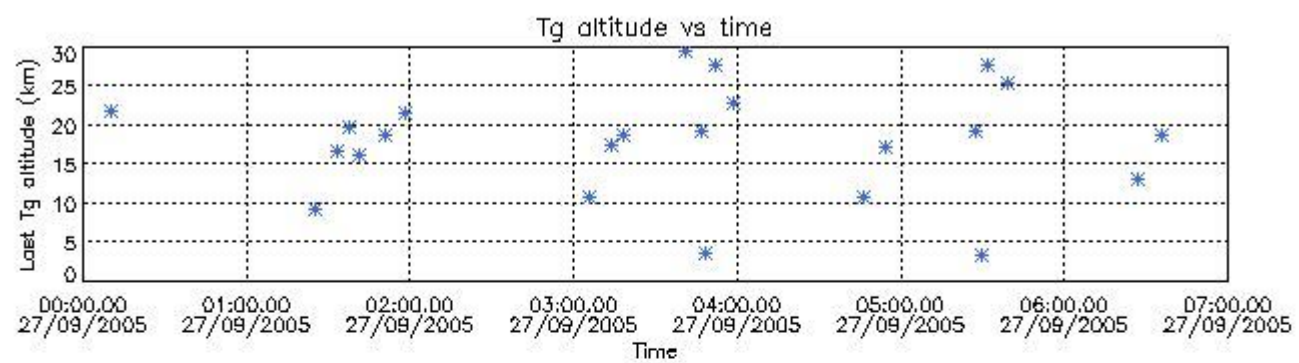
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

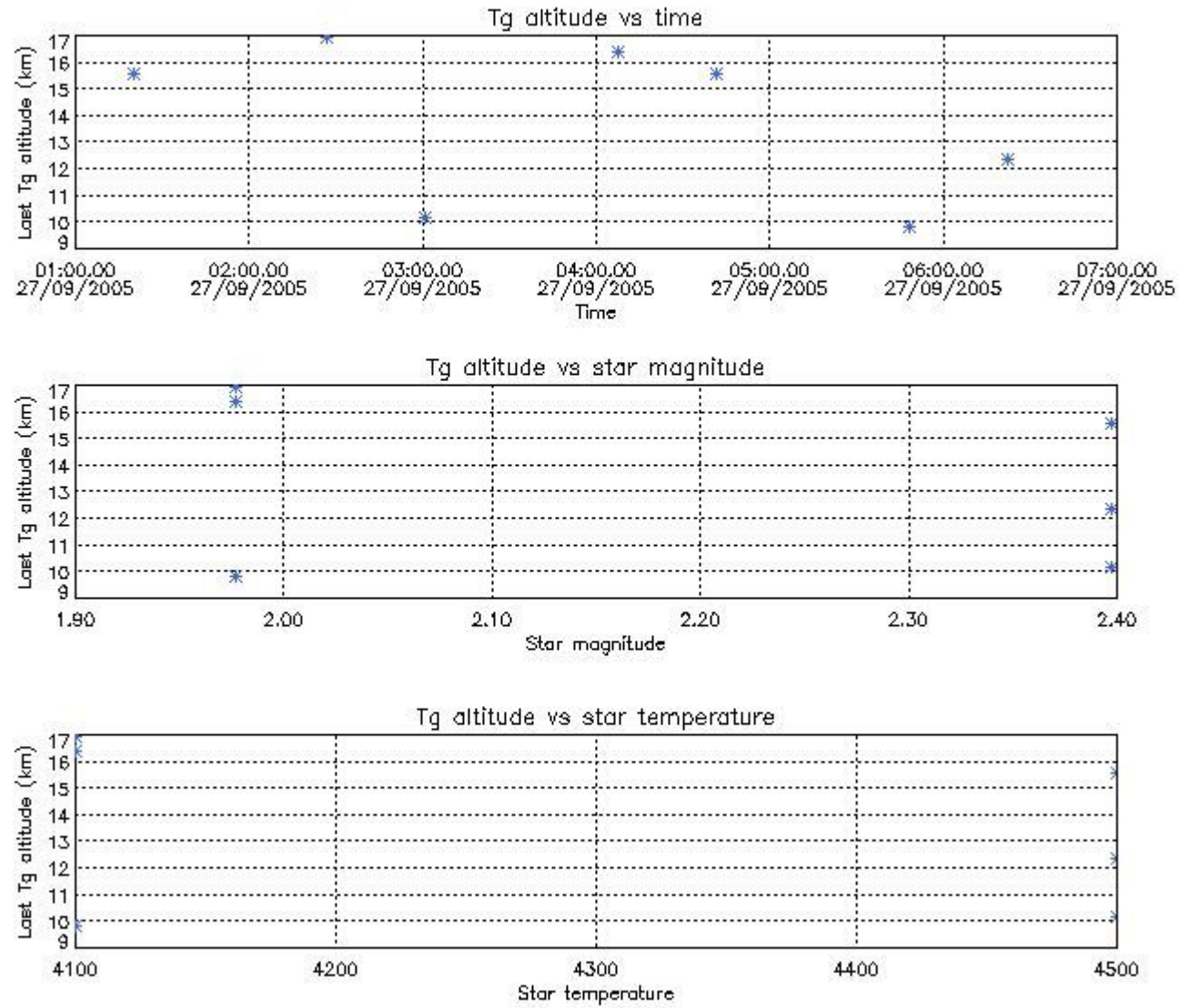
Tangent altitude at which the star is lost



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

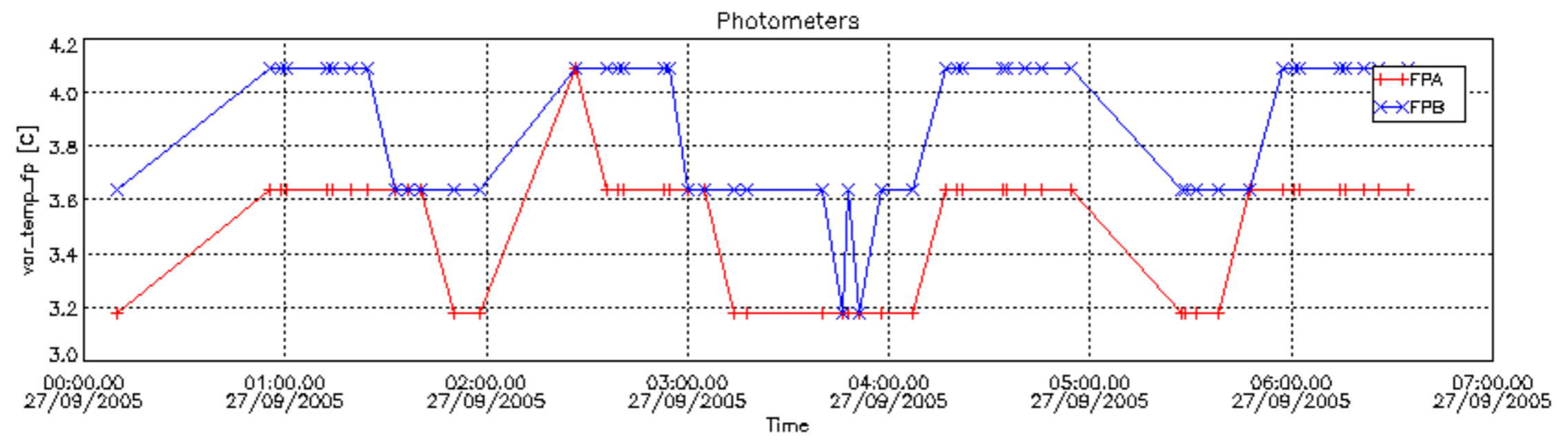
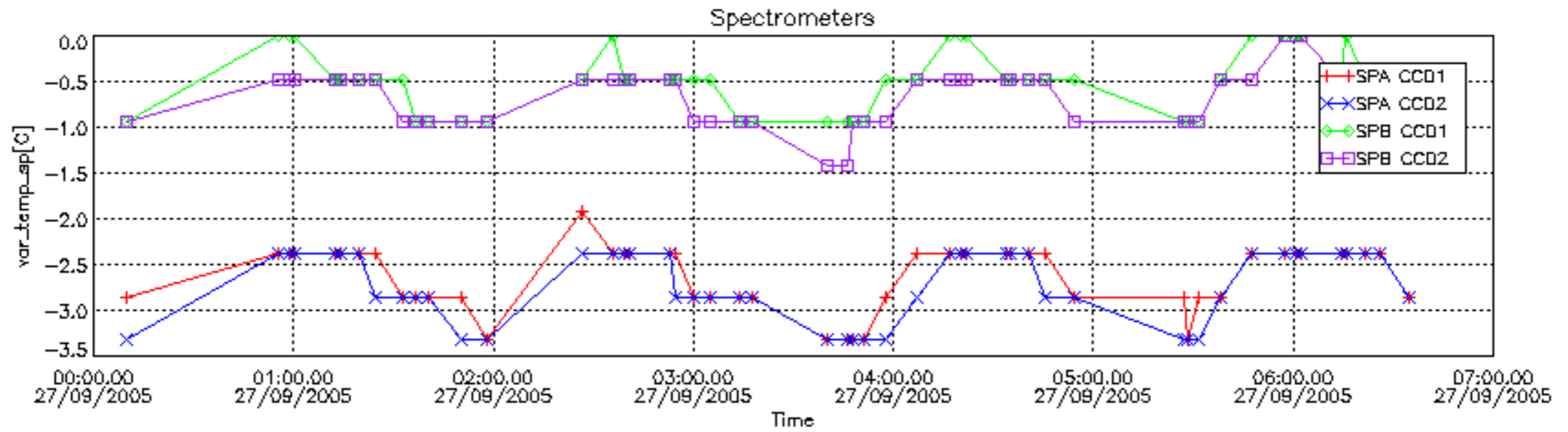
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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	1447.0	1459.3	1446.5
St. deviation:	4.4483	9.7477	7.0084	12.668
Maximum:	1495.0	1495.0	1508.0	1505.0
Minimum:	1454.0	1424.0	1428.0	1409.0
Number of data:	17400.	17400.	18900.	18900.

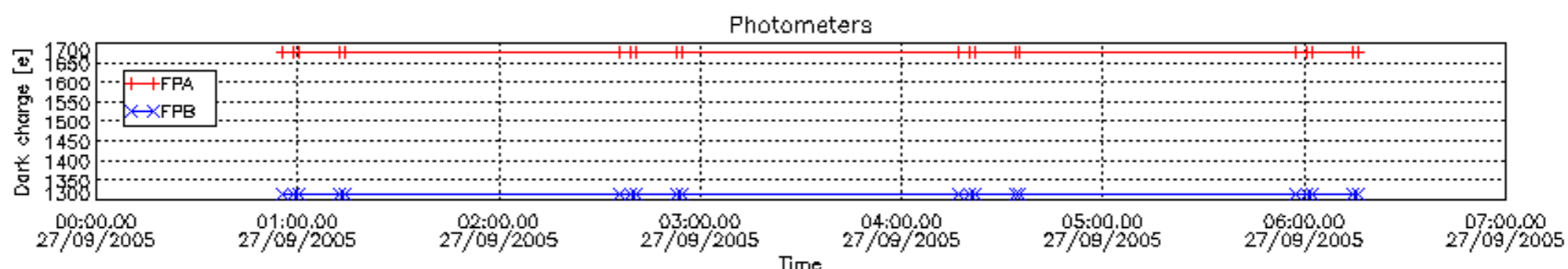
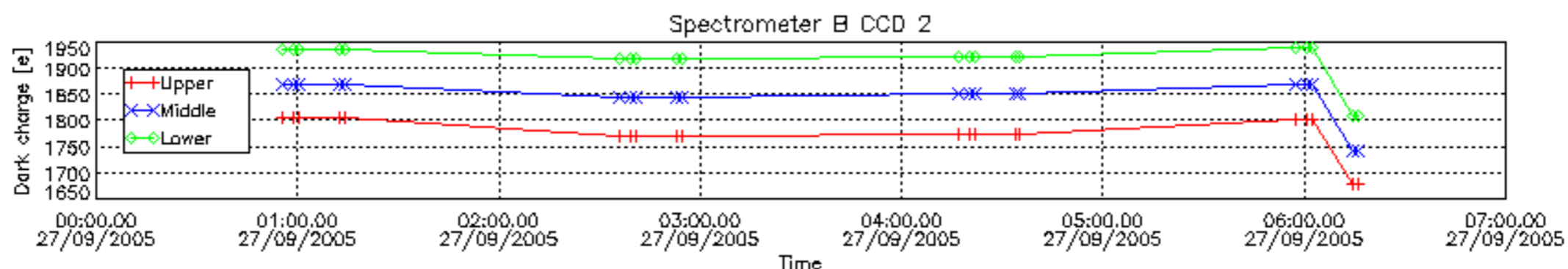
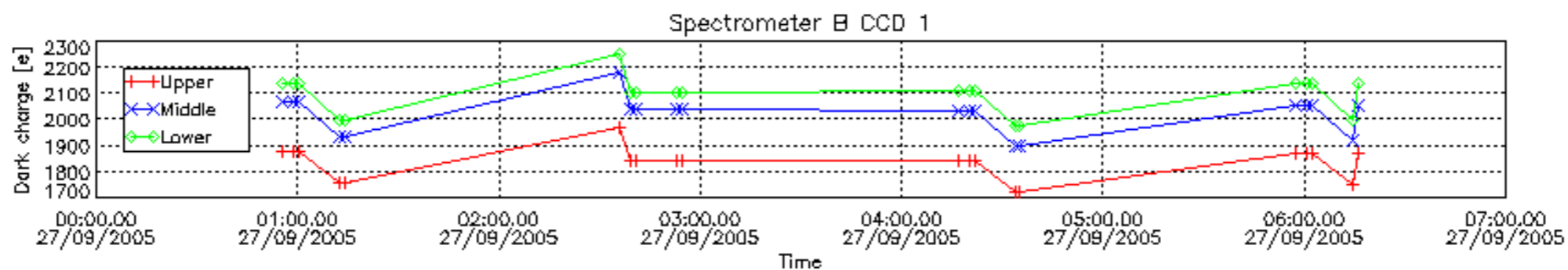
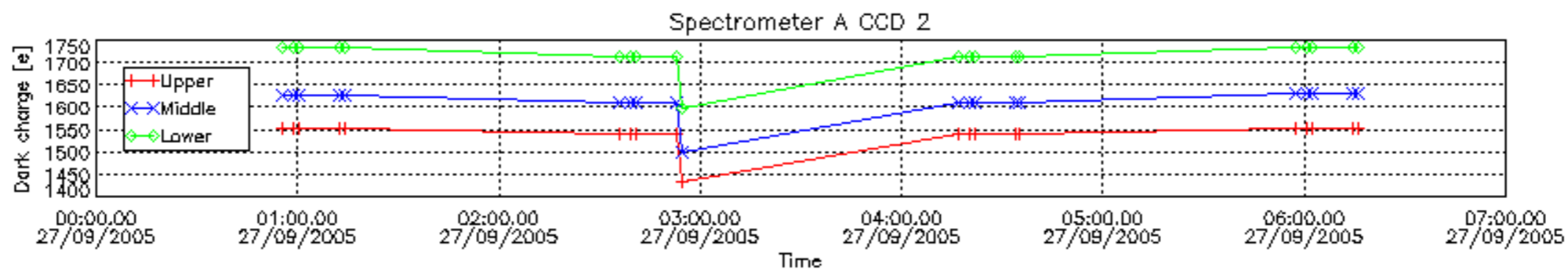
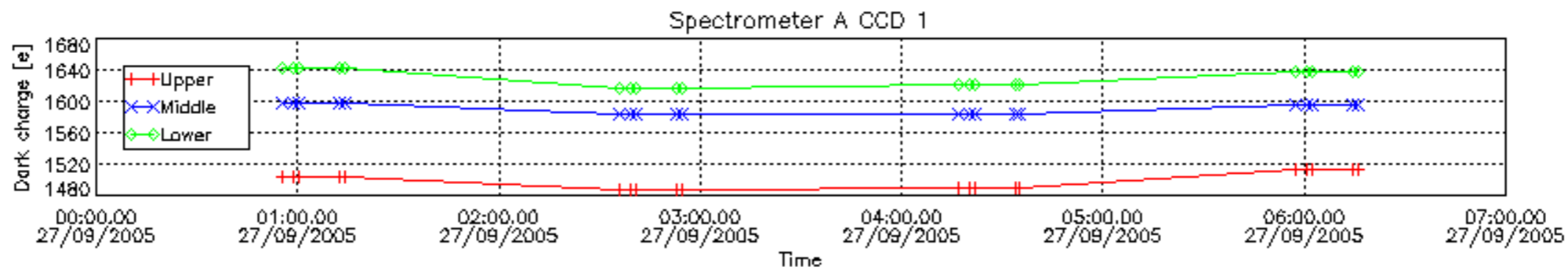
## 8. Auxiliary Data Files used for the production reported in section 2.2

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	27-SEP-2005 00:09:59
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050919_104724_20050917_000000_20100101_000000	1	27-SEP-2005 00:09:59
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	27-SEP-2005 00:09:59
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-SEP-2005 00:09:59
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	27-SEP-2005 00:09:59
ECMWF_FILE	AUX_ECA_AXNECM20050927_070525_20050926_210000_20050927_090000	1	27-SEP-2005 00:09:59
ECMWF_FILE	AUX_ECF_AXNECM20050926_060547_20050926_210000_20050927_090000	2	27-SEP-2005 00:55:32
ECMWF_FILE	AUX_ECF_AXNECM20050926_192517_20050927_030000_20050927_150000	24	27-SEP-2005 03:40:18
OPTIONAL_ECMWF_FILE	NOT USED	1	27-SEP-2005 00:09:59
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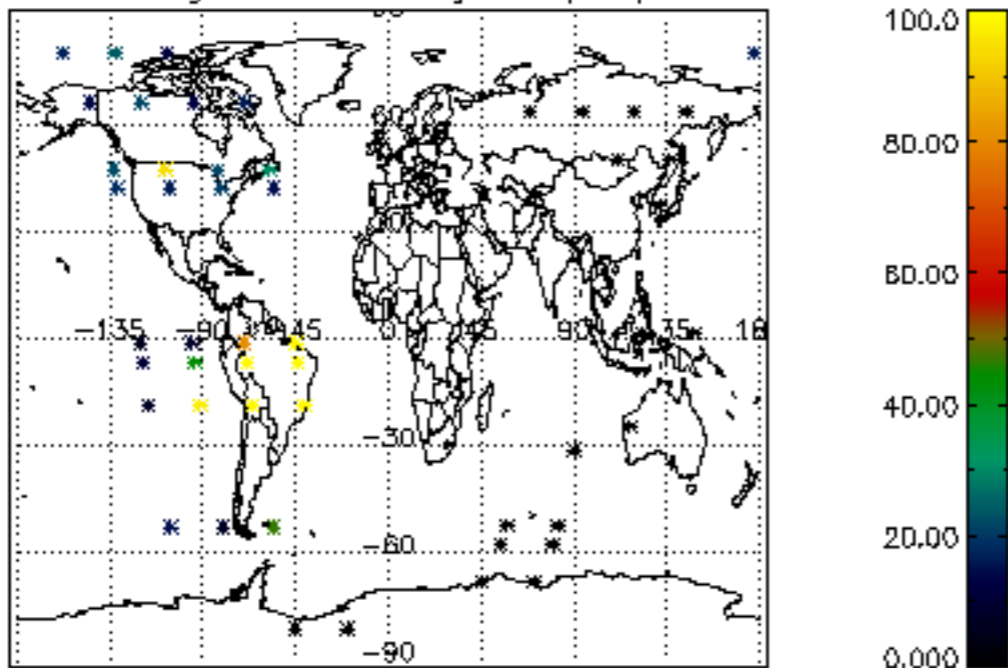




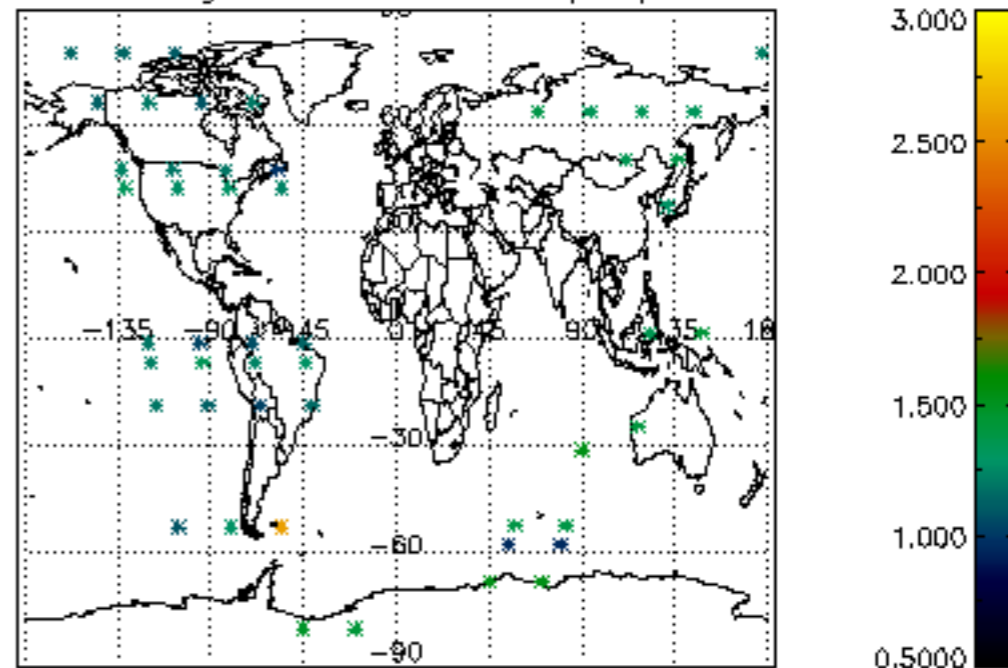




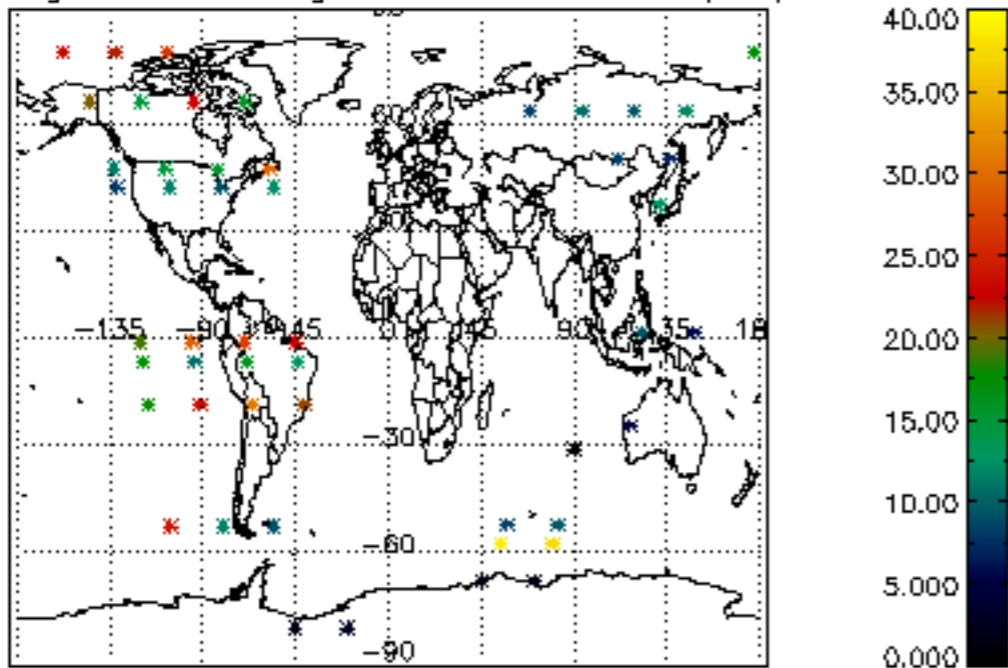
Percentage of cosmic ray hits per profile



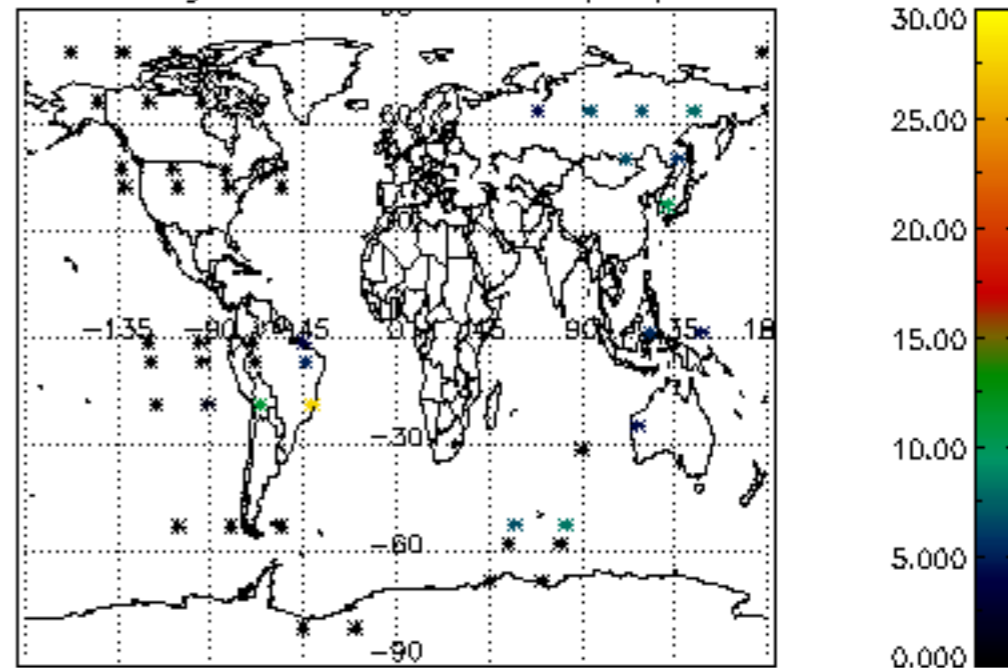
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

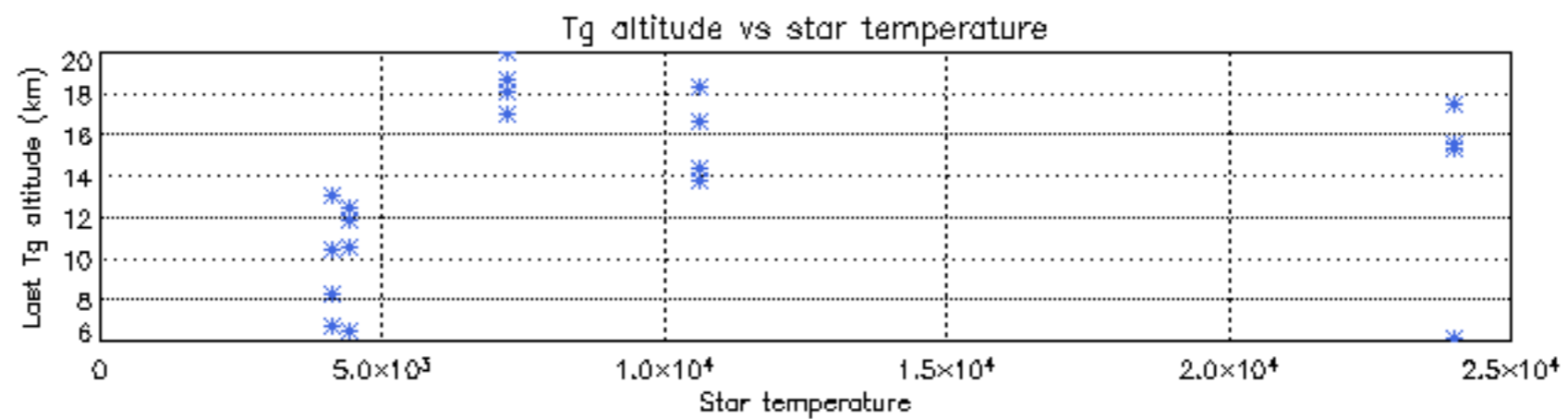
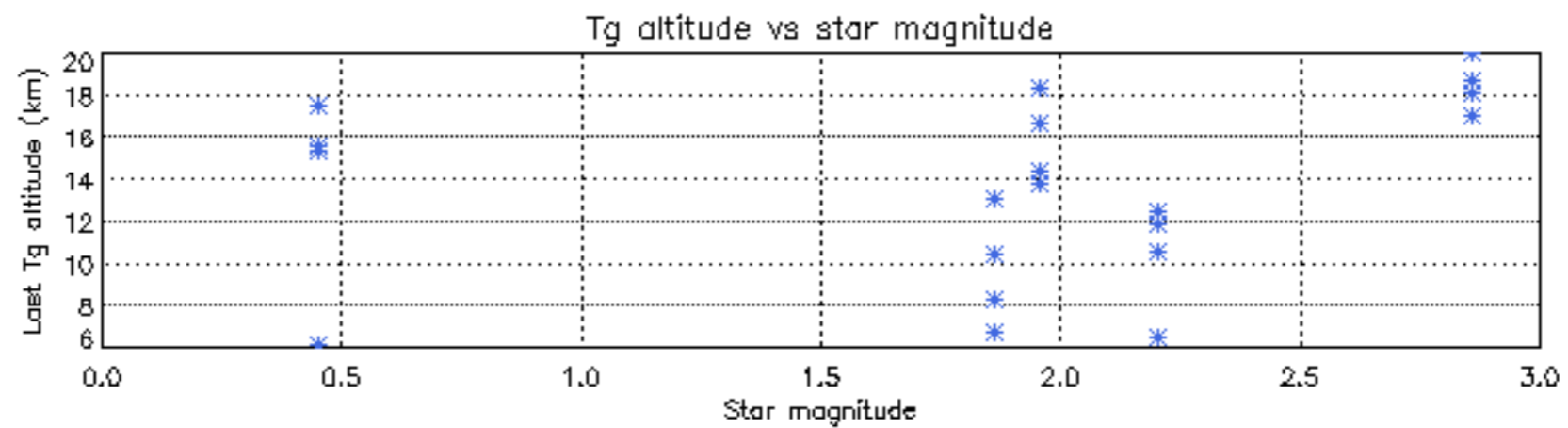
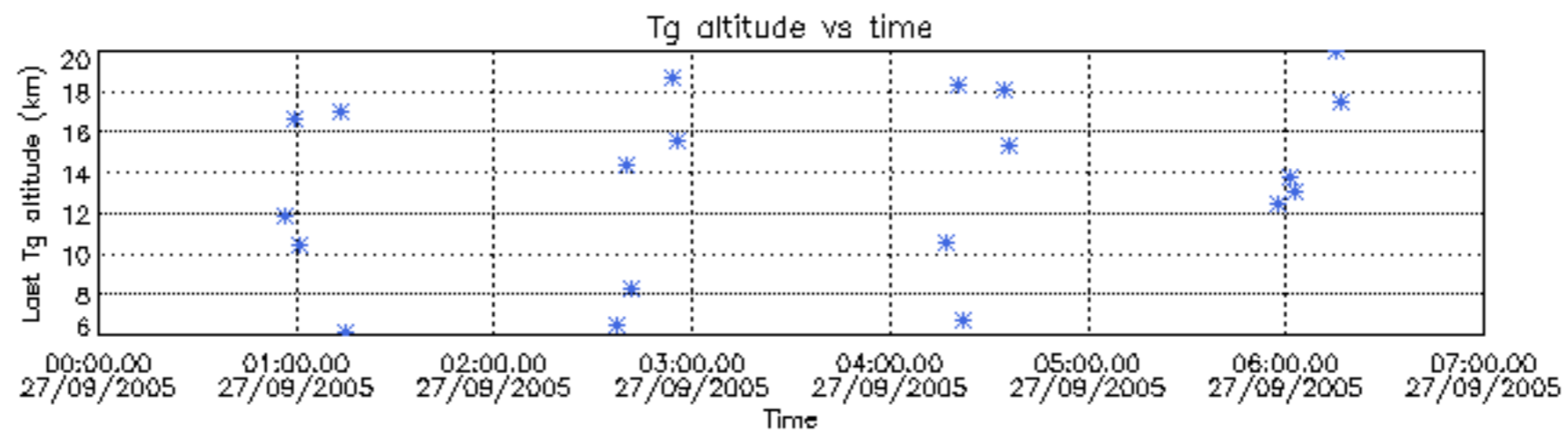


Percentage of saturation errors per profile

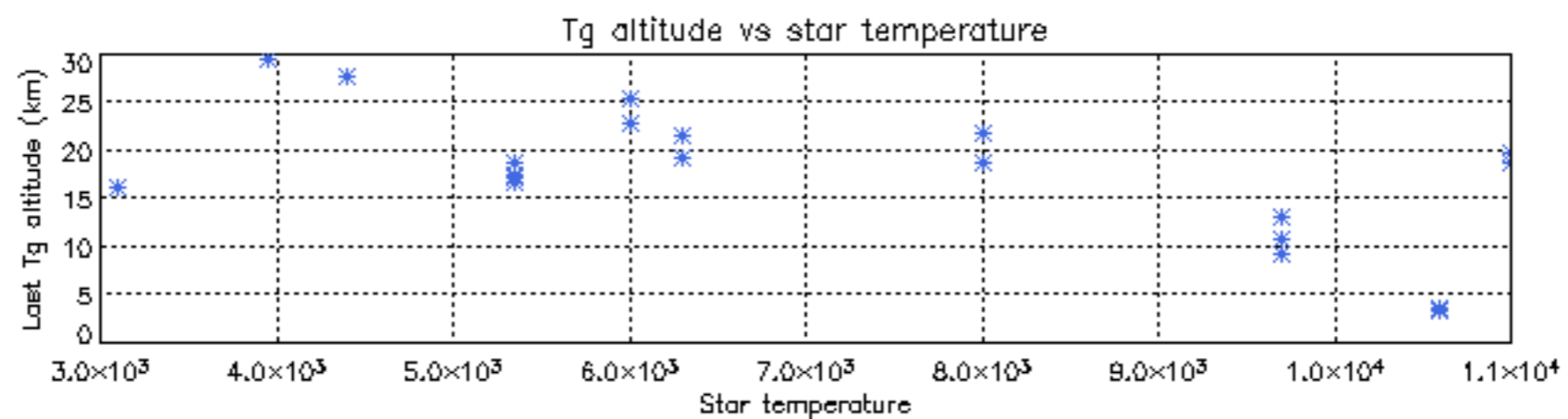
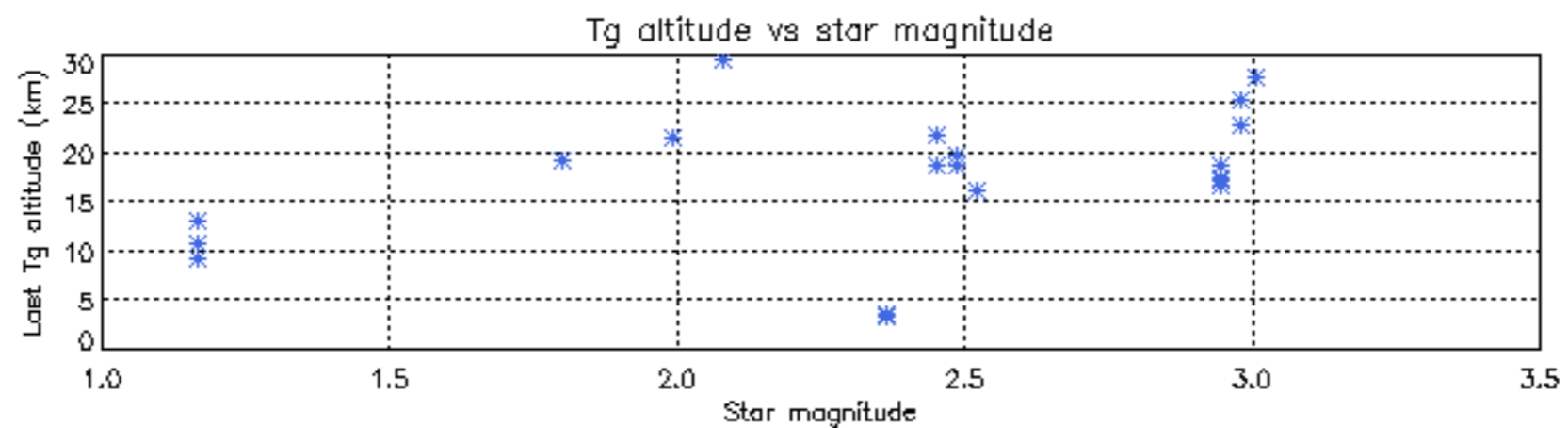
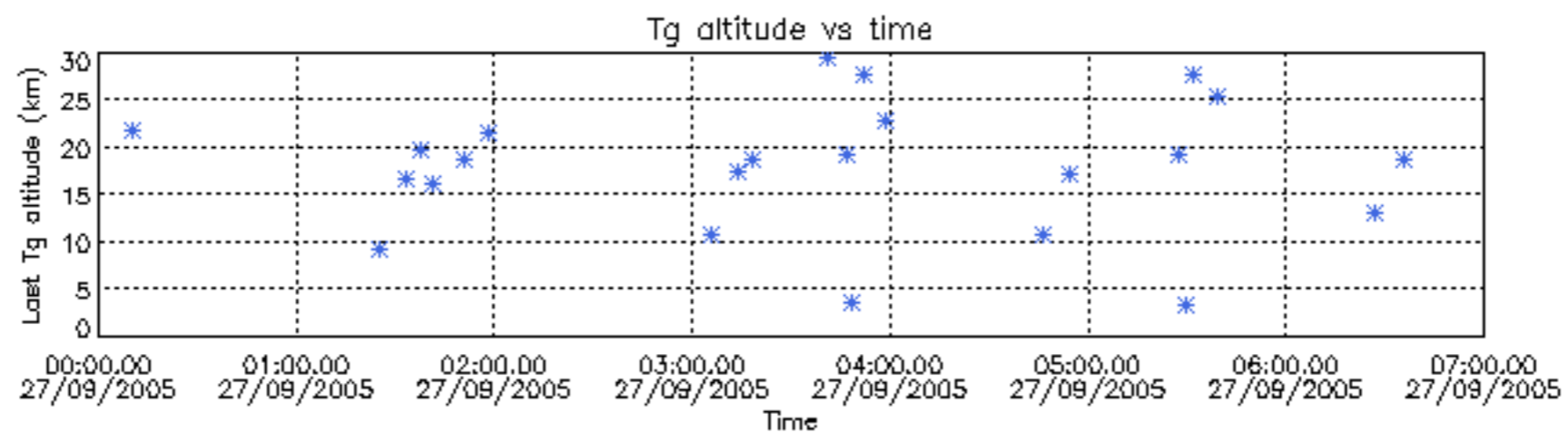




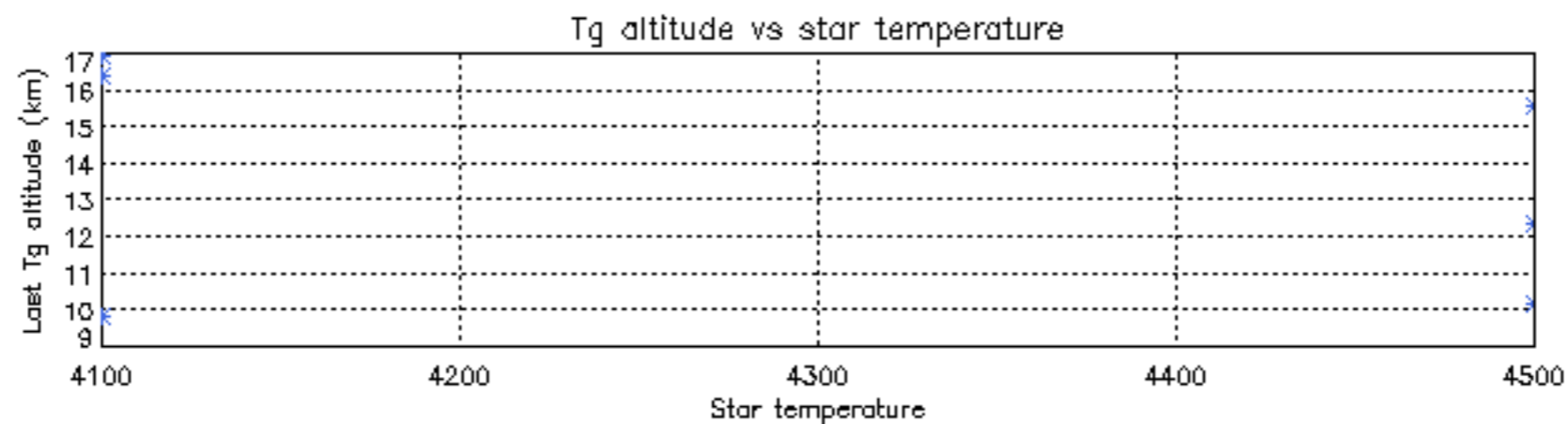
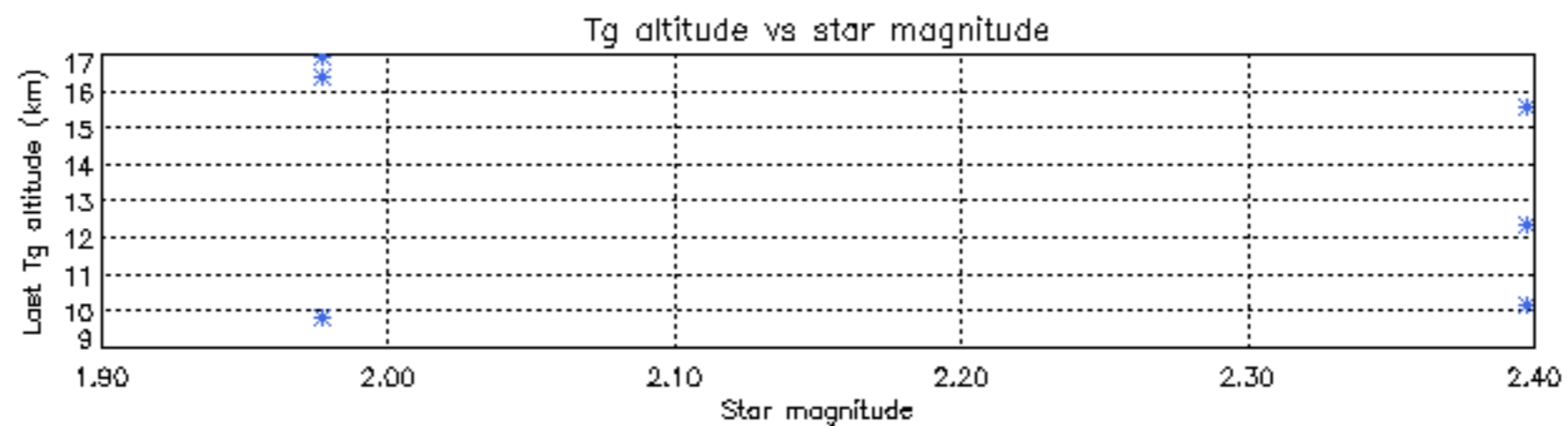
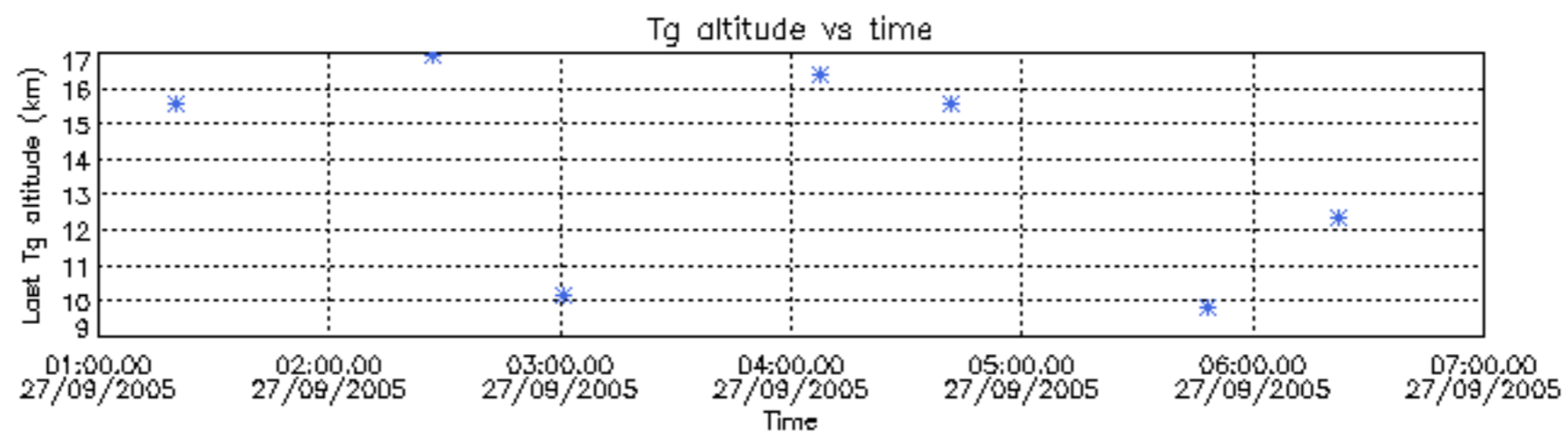
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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