

# GOMOS Daily Report 26-SEP-2005

## Level 0 and Level 1 products

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### 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	28SEP2005 05:01:28

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (26SEP2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (27SEP2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	36
Nb of prods with errors	0

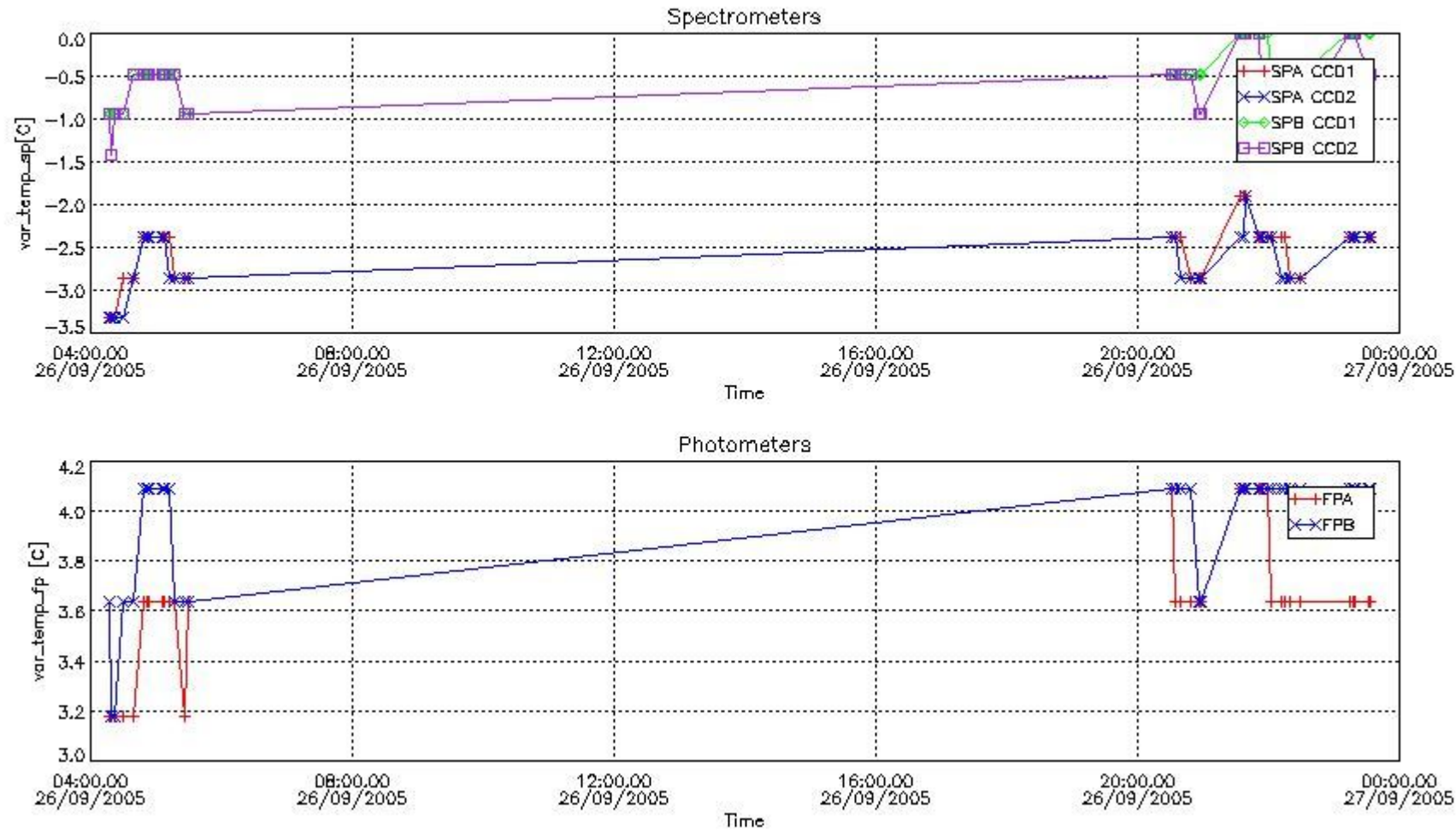
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20050926_041755_000000372041_00090_18681_0000.N1	26-SEP-2005 04:17:55	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	18681	No
2	GOM_TRA_1PNPDE20050926_041924_000000332041_00090_18681_0001.N1	26-SEP-2005 04:19:24	Bright	33.000	82	48Bet UMa	2.3650	10600.	66	18681	No
3	GOM_TRA_1PNPDE20050926_042235_000000522041_00090_18681_0002.N1	26-SEP-2005 04:22:35	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	18681	No
4	GOM_TRA_1PNPDE20050926_042913_000000342041_00090_18681_0003.N1	26-SEP-2005 04:29:13	Bright	34.000	166	17Eps Leo	2.9800	6000.0	68	18681	No
5	GOM_TRA_1PNPDE20050926_043835_000000382041_00090_18681_0004.N1	26-SEP-2005 04:38:35	Twilight	38.000	48	30Alp Hya	1.9770	4100.0	76	18681	No
6	GOM_TRA_1PNPDE20050926_044817_000000442041_00090_18681_0005.N1	26-SEP-2005 04:48:17	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	18681	No
7	GOM_TRA_1PNPDE20050926_045135_000000392041_00090_18681_0006.N1	26-SEP-2005 04:51:35	Dark	39.000	46	Del Vel	1.9540	10600.	78	18681	No
8	GOM_TRA_1PNPDE20050926_045310_000000452041_00090_18681_0007.N1	26-SEP-2005 04:53:10	Dark	45.000	41	Eps Car	1.8600	4100.0	90	18681	No
9	GOM_TRA_1PNPDE20050926_050519_000000402041_00091_18682_0008.N1	26-SEP-2005 05:05:19	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	18682	No
10	GOM_TRA_1PNPDE20050926_050647_000000502041_00091_18682_0009.N1	26-SEP-2005 05:06:47	Dark	49.500	9	Alp Eri	0.45300	24000.	99	18682	No
11	GOM_TRA_1PNPDE20050926_051227_000000522041_00091_18682_0010.N1	26-SEP-2005 05:12:27	Twilight	52.000	63	Bet Gru	2.1500	2800.0	104	18682	No
12	GOM_TRA_1PNPDE20050926_051703_000000442041_00091_18682_0011.N1	26-SEP-2005 05:17:03	Bright	44.000	18	24Alp PsA	1.1660	9700.0	88	18682	No
13	GOM_TRA_1PNPDE20050926_052543_000000372041_00091_18682_0012.N1	26-SEP-2005 05:25:43	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	18682	No
14	GOM_TRA_1PNPDE20050926_052941_000000372041_00091_18682_0013.N1	26-SEP-2005 05:29:41	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	18682	No
15	GOM_TRA_1PNPDE20050926_203108_000000372041_00100_18691_0000.N1	26-SEP-2005 20:31:08	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	18691	No
16	GOM_TRA_1PNPDE20050926_203504_000000372041_00100_18691_0001.N1	26-SEP-2005 20:35:04	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	18691	No
17	GOM_TRA_1PNPDE20050926_203846_000000372041_00100_18691_0002.N1	26-SEP-2005 20:38:46	Bright	36.500	93	53Bet Peg	2.5200	3100.0	73	18691	No
18	GOM_TRA_1PNPDE20050926_204847_000000352041_00100_18691_0003.N1	26-SEP-2005 20:48:47	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	18691	No
19	GOM_TRA_1PNPDE20050926_205607_000000362041_00100_18691_0004.N1	26-SEP-2005 20:56:07	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	18691	No
20	GOM_TRA_1PNPDE20050926_205753_000000372041_00100_18691_0005.N1	26-SEP-2005 20:57:53	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	18691	No
21	GOM_TRA_1PNPDE20050926_213419_000000482041_00100_18691_0000.N1	26-SEP-2005 21:34:19	Dark	48.000	65	Lam Vel	2.2040	4400.0	96	18691	No
22	GOM_TRA_1PNPDE20050926_213738_000000432041_00100_18691_0001.N1	26-SEP-2005 21:37:38	Dark	43.000	46	Del Vel	1.9540	10600.	86	18691	No
23	GOM_TRA_1PNPDE20050926_213913_000000392041_00100_18691_0002.N1	26-SEP-2005 21:39:13	Dark	38.500	41	Eps Car	1.8600	4100.0	77	18691	No
24	GOM_TRA_1PNPDE20050926_215123_000000382041_00101_18692_0003.N1	26-SEP-2005 21:51:23	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	18692	No
25	GOM_TRA_1PNPDE20050926_215250_000000442041_00101_18692_0004.N1	26-SEP-2005 21:52:50	Dark	44.000	9	Alp Eri	0.45300	24000.	88	18692	No
26	GOM_TRA_1PNPDE20050926_215828_000000432041_00101_18692_0005.N1	26-SEP-2005 21:58:28	Twilight	42.500	63	Bet Gru	2.1500	2800.0	85	18692	No
27	GOM_TRA_1PNPDE20050926_220305_000000452041_00101_18692_0006.N1	26-SEP-2005 22:03:05	Bright	44.500	18	24Alp PsA	1.1660	9700.0	89	18692	No
28	GOM_TRA_1PNPDE20050926_221145_000000382041_00101_18692_0007.N1	26-SEP-2005 22:11:45	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	18692	No
29	GOM_TRA_1PNPDE20050926_221540_000000372041_00101_18692_0008.N1	26-SEP-2005 22:15:40	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	18692	No
30	GOM_TRA_1PNPDE20050926_221922_000000392041_00101_18692_0009.N1	26-SEP-2005 22:19:22	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	18692	No
31	GOM_TRA_1PNPDE20050926_222923_000000362041_00101_18692_0010.N1	26-SEP-2005 22:29:23	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	18692	No
32	GOM_TRA_1PNPDE20050926_231455_000000402041_00101_18692_0000.N1	26-SEP-2005 23:14:55	Dark	40.000	65	Lam Vel	2.2040	4400.0	80	18692	No
33	GOM_TRA_1PNPDE20050926_231814_000000392041_00101_18692_0001.N1	26-SEP-2005 23:18:14	Dark	39.000	46	Del Vel	1.9540	10600.	78	18692	No
34	GOM_TRA_1PNPDE20050926_231949_000000422041_00101_18692_0002.N1	26-SEP-2005 23:19:49	Dark	42.000	41	Eps Car	1.8600	4100.0	84	18692	No
35	GOM_TRA_1PNPDE20050926_233159_000000402041_00102_18693_0003.N1	26-SEP-2005 23:31:59	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	18693	No
36	GOM_TRA_1PNPDE20050926_233326_000000442041_00102_18693_0004.N1	26-SEP-2005 23:33:26	Dark	43.500	9	Alp Eri	0.45300	24000.	87	18693	No

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



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

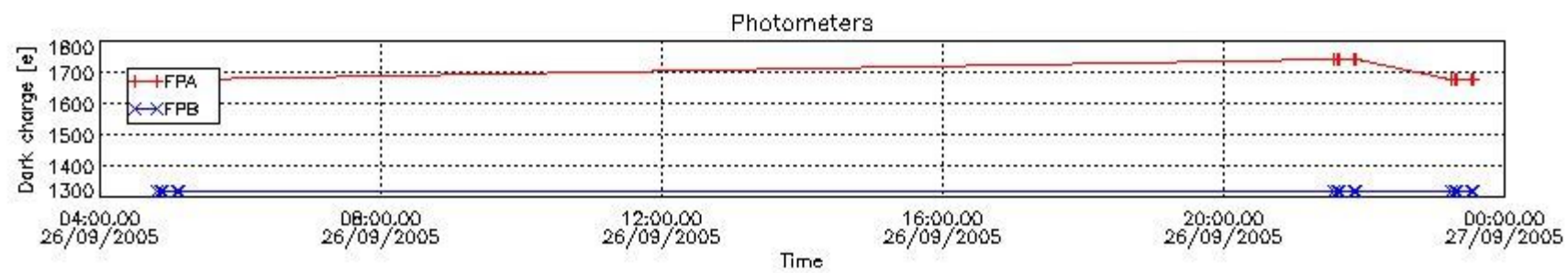
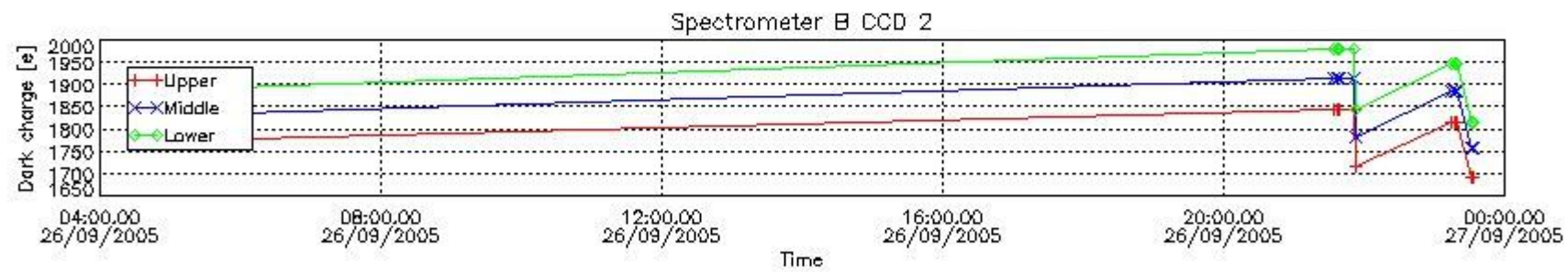
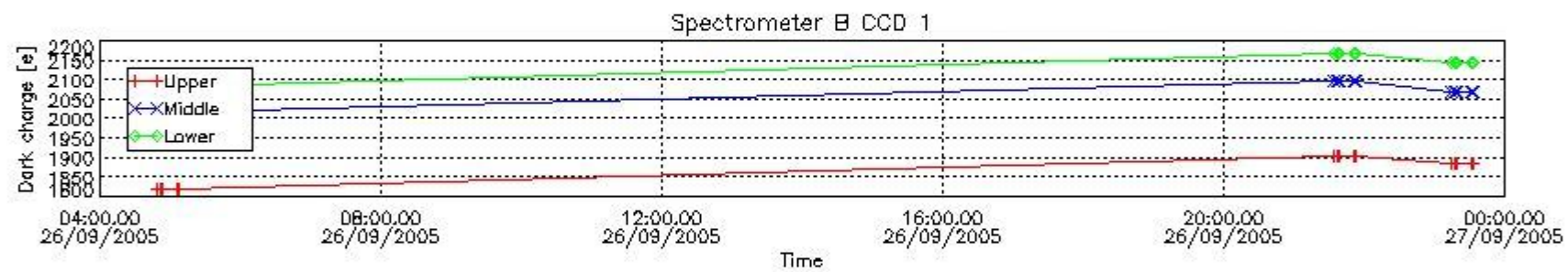
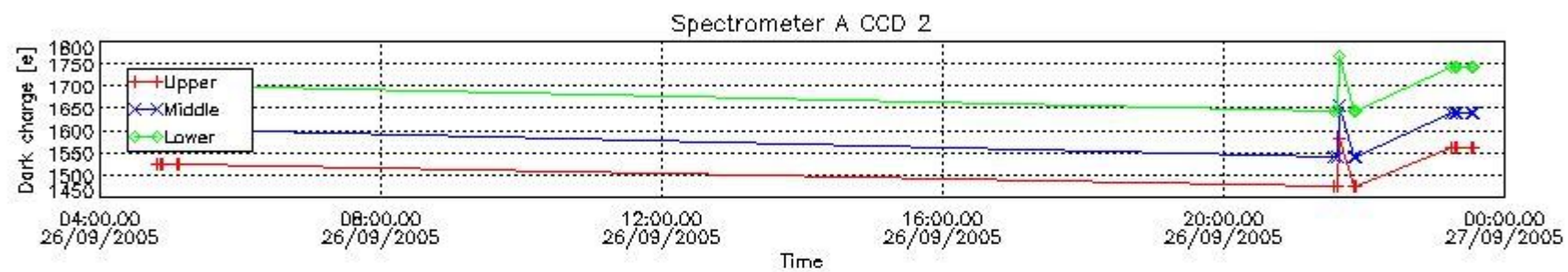
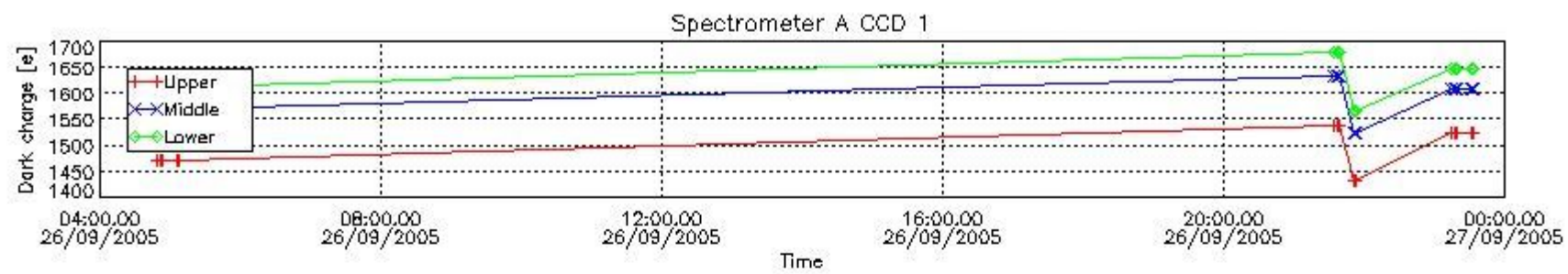
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20050926_203108_000000372041_00100_18691_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20050926_203504_000000372041_00100_18691_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20050926_203846_000000372041_00100_18691_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20050926_204847_000000352041_00100_18691_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20050926_205607_000000362041_00100_18691_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20050926_205753_000000372041_00100_18691_0005.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

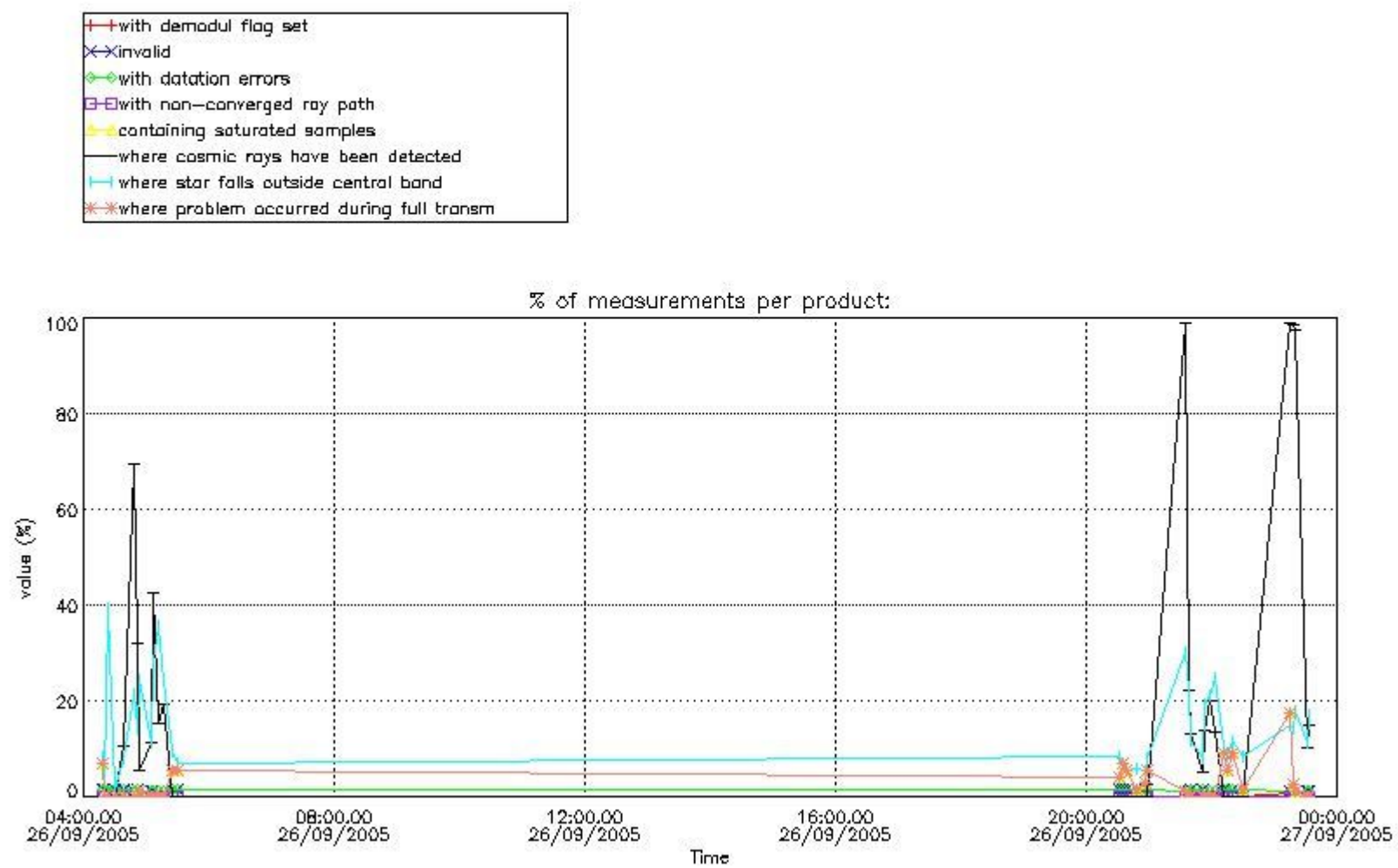
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

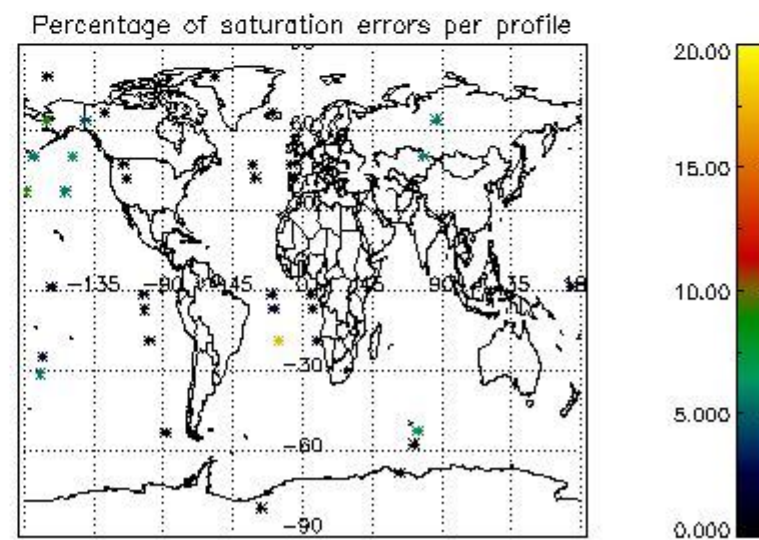
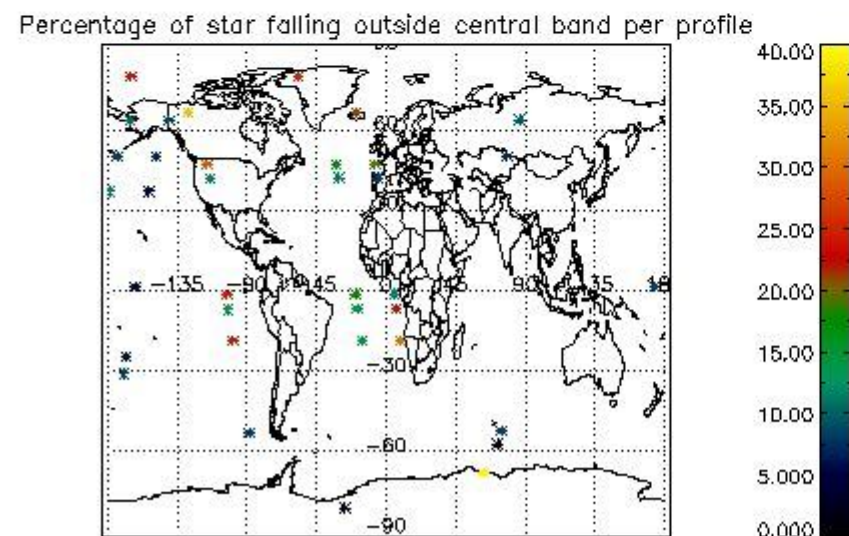
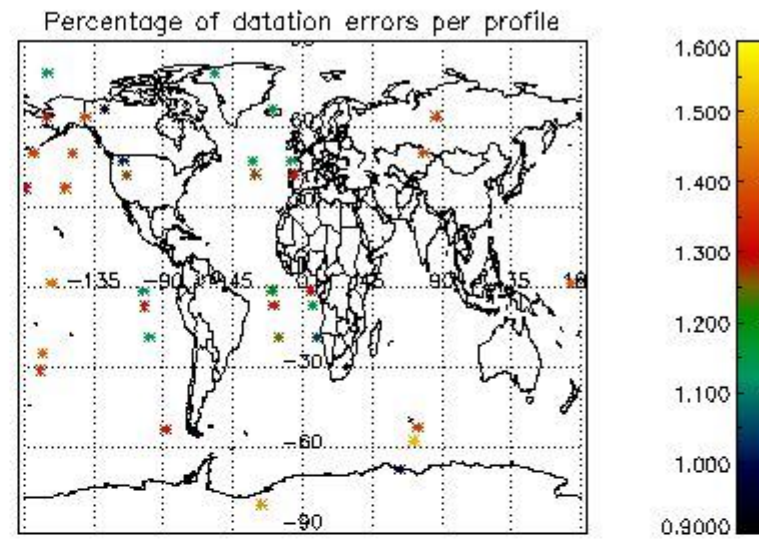
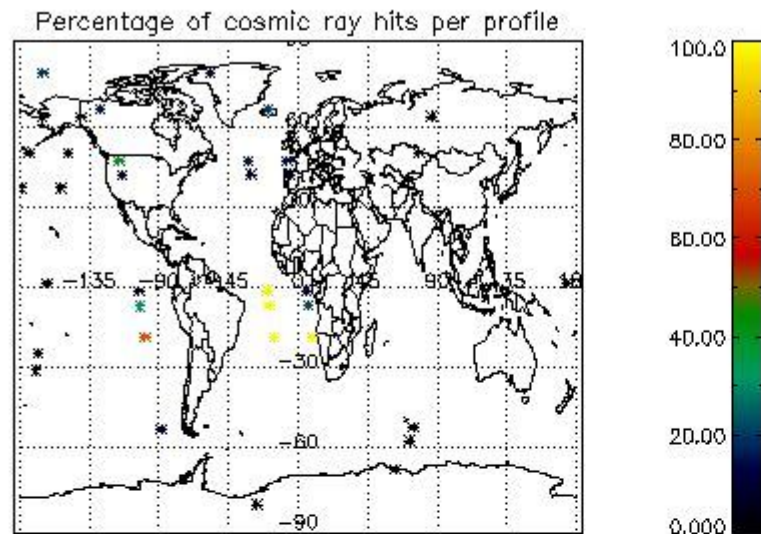


At least one measurement with demodulation flag set:	16.6667 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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



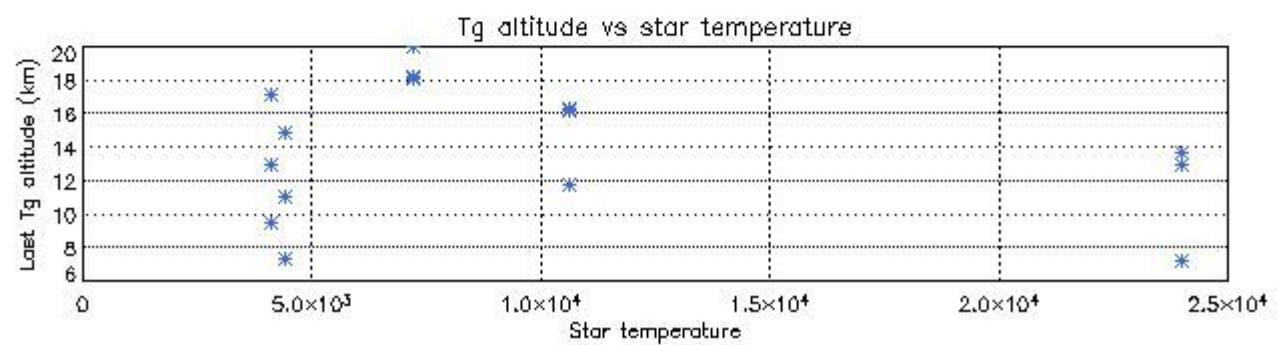
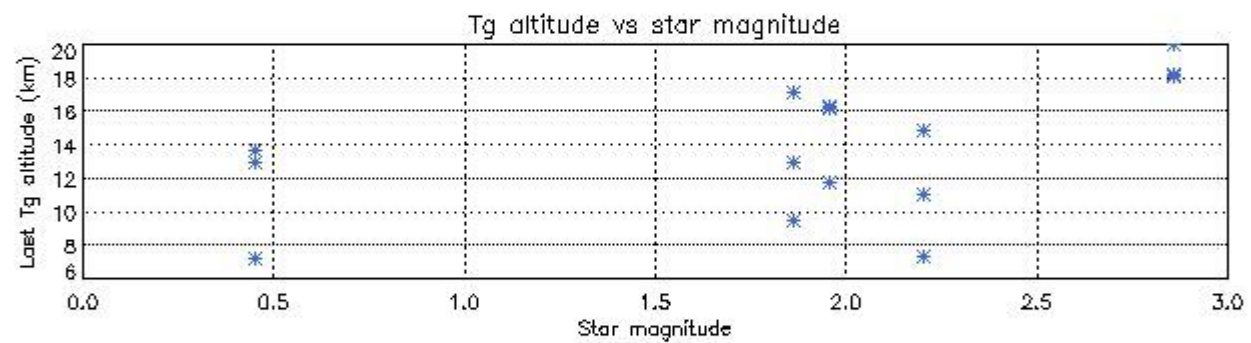
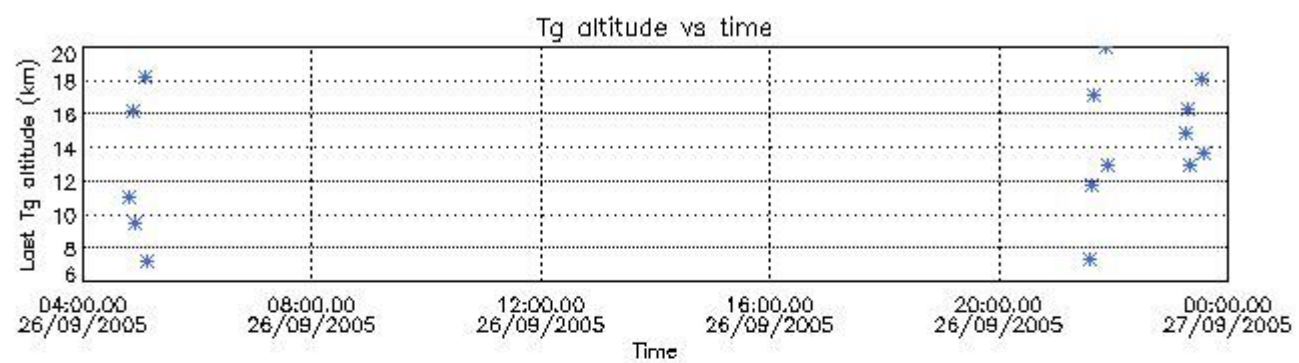
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.794	18.121	10.925
St. deviation:	3.9568	5.4238	7.1185
Maximum:	19.974	26.085	17.527
Minimum:	7.1935	3.7321	3.3830
Number of data:	15.000	18.000	3.0000

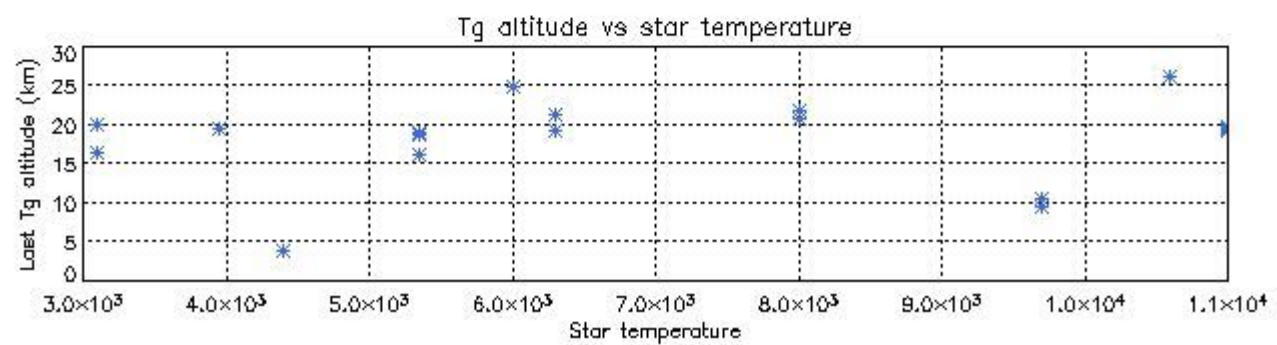
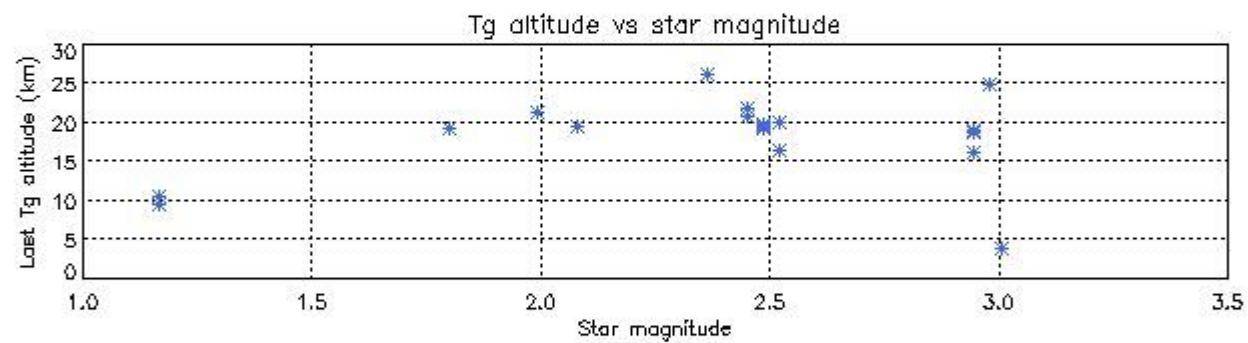
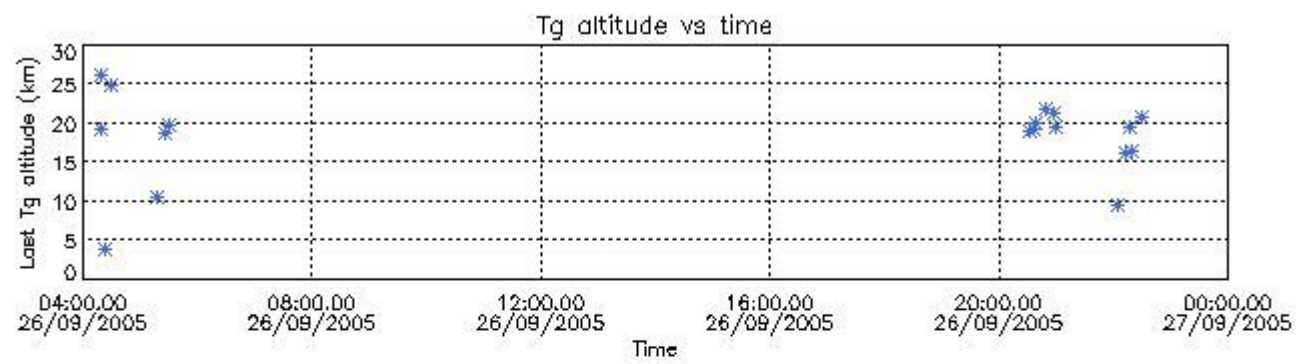
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

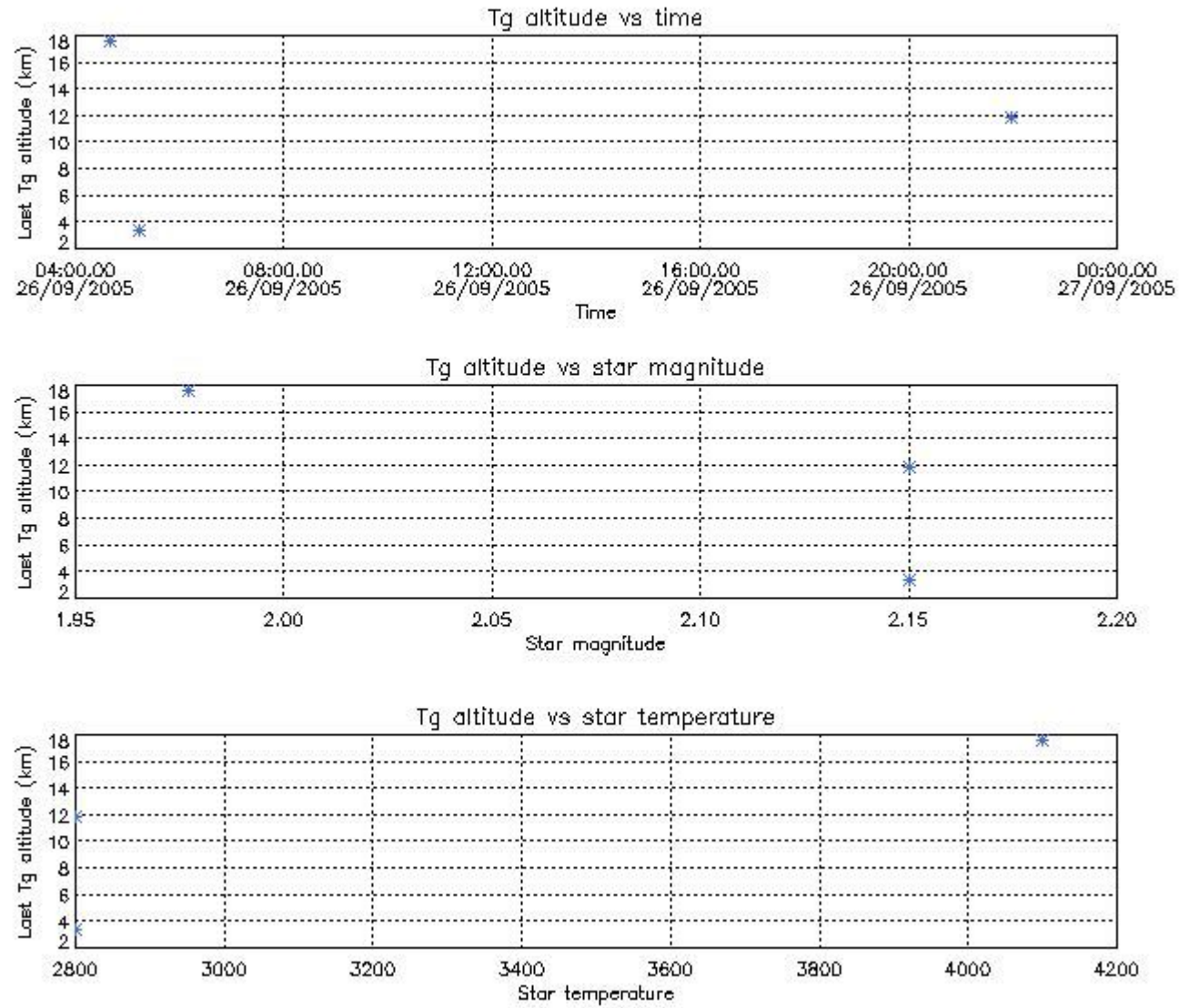
Tangent altitude at which the star is lost



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

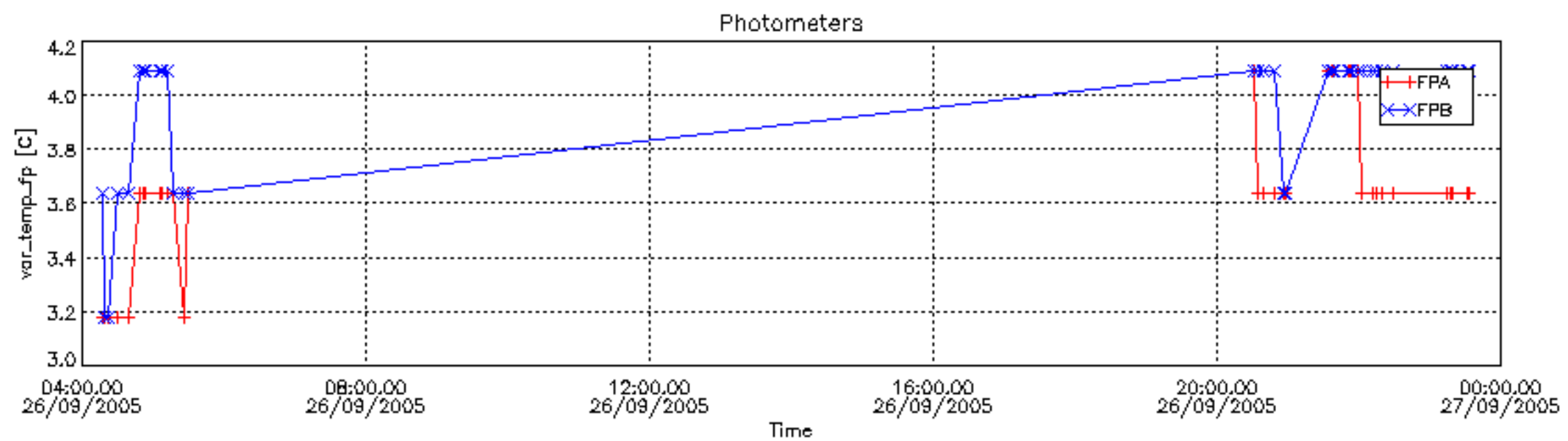
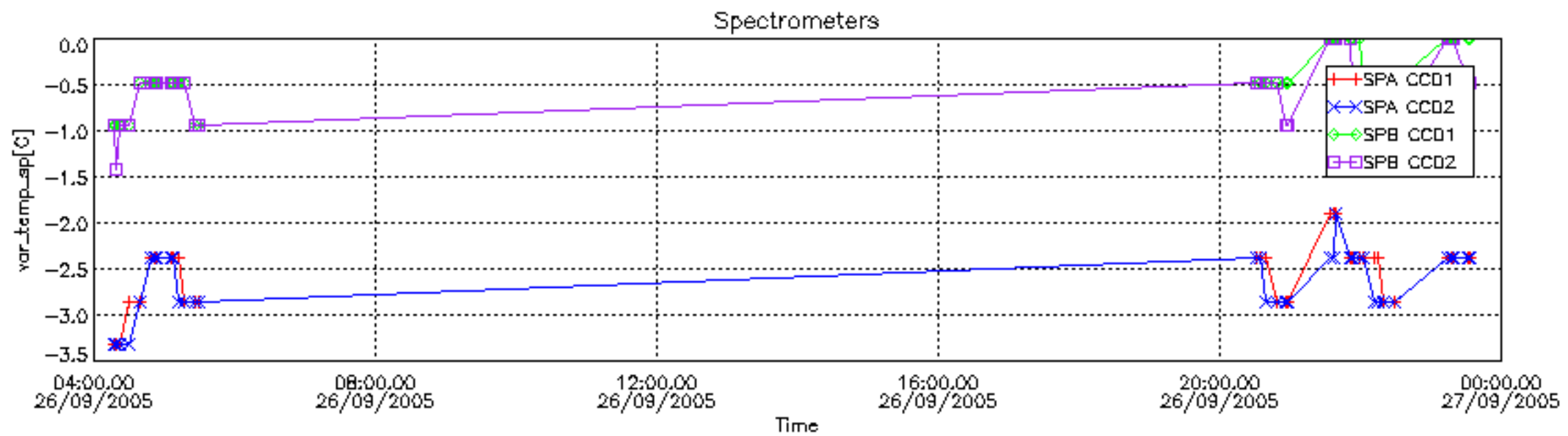
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

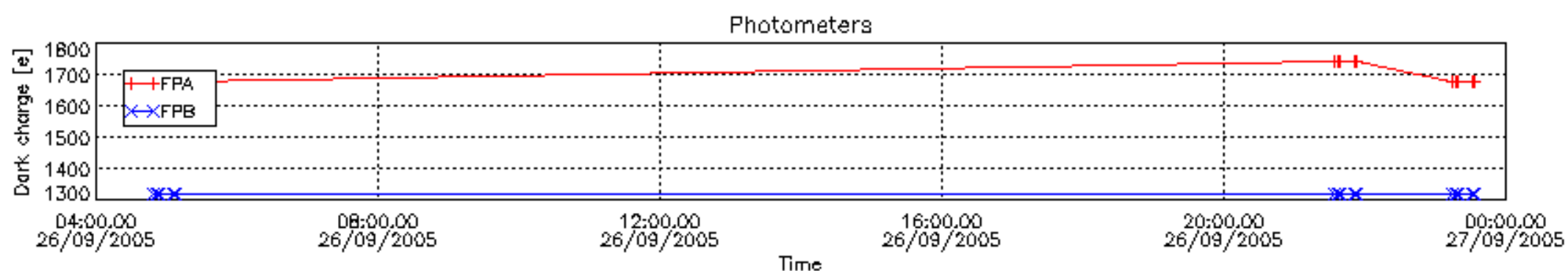
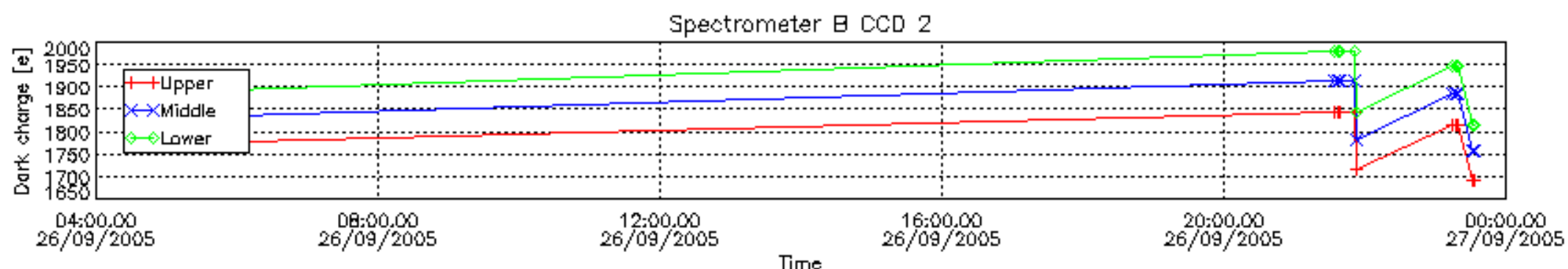
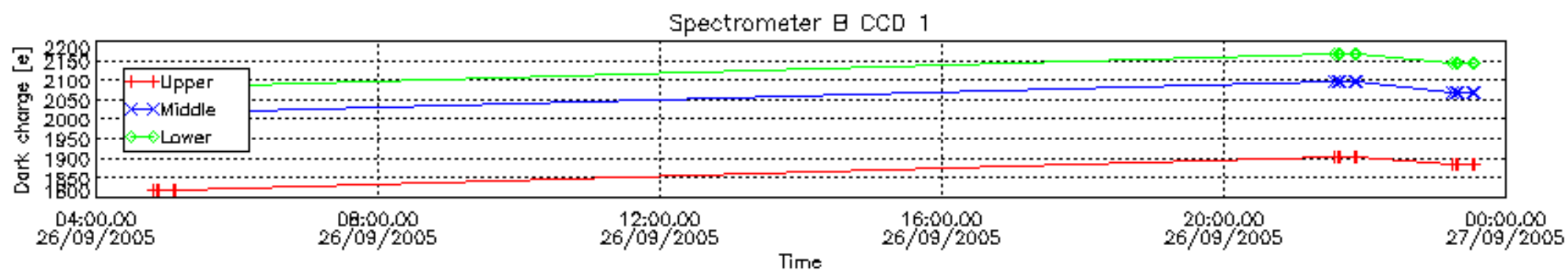
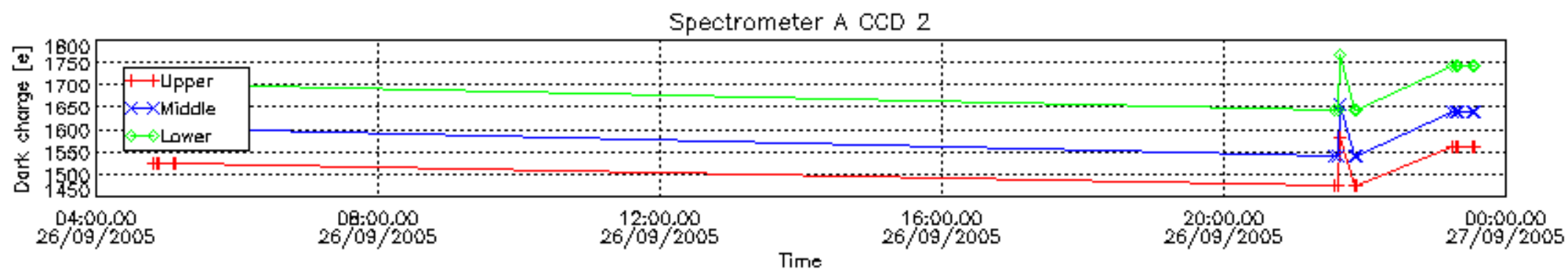
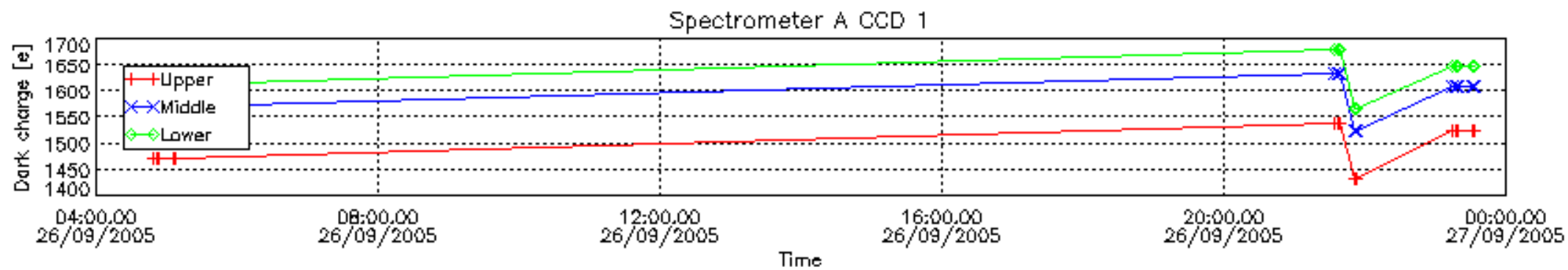
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.0	1446.9	1459.9	1446.5
St. deviation:	4.4372	9.6723	7.0025	12.838
Maximum:	1497.0	1495.0	1497.0	1505.0
Minimum:	1456.0	1428.0	1429.0	1402.0
Number of data:	13050.	13050.	14600.	14600.

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

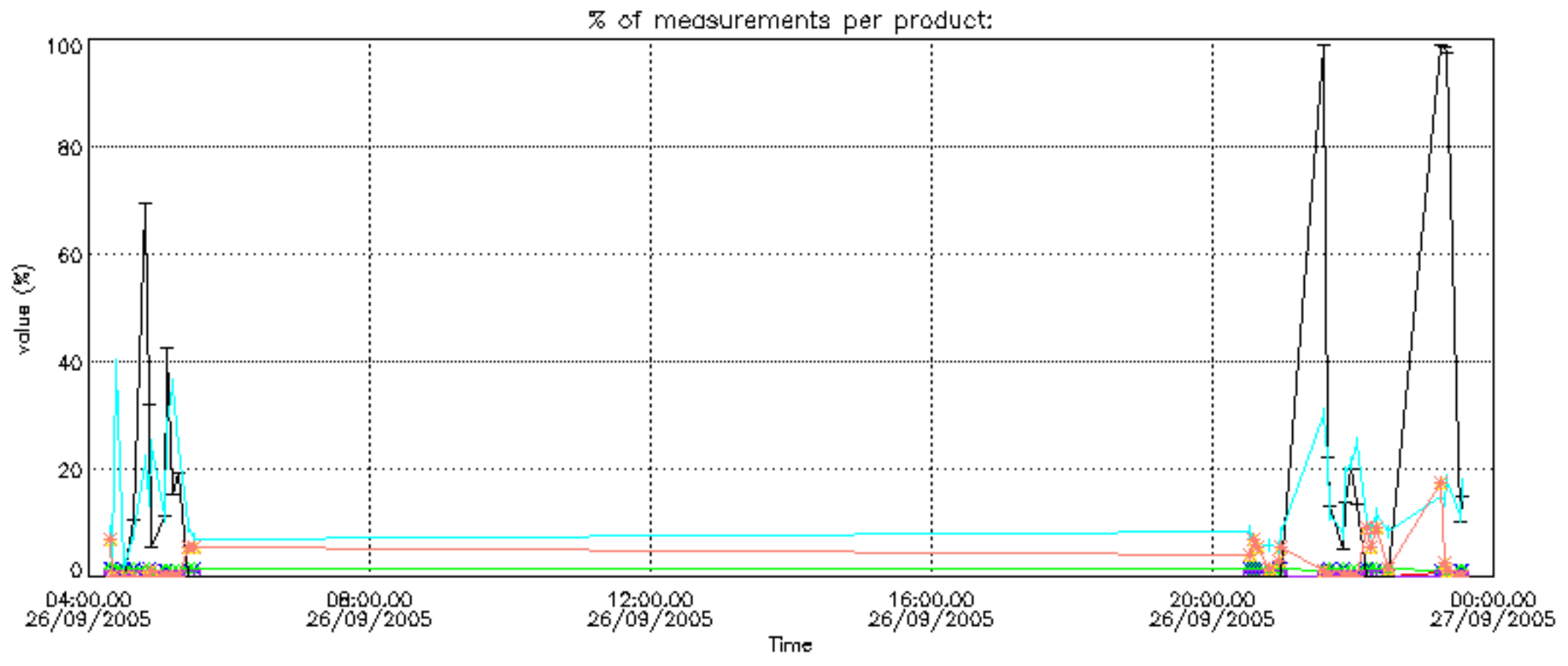
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	26-SEP-2005 04:17:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050919_104724_20050917_000000_20100101_000000	1	26-SEP-2005 04:17:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	26-SEP-2005 04:17:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-SEP-2005 04:17:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	26-SEP-2005 04:17:55
ECMWF_FILE	AUX_ECF_AXNECM20050925_192520_20050926_030000_20050926_150000	1	26-SEP-2005 04:17:55
ECMWF_FILE	AUX_ECF_AXNECM20050926_060527_20050926_150000_20050927_030000	15	26-SEP-2005 20:31:08
ECMWF_FILE	AUX_ECF_AXNECM20050926_060547_20050926_210000_20050927_090000	21	26-SEP-2005 21:34:19
OPTIONAL_ECMWF_FILE	NOT USED	1	26-SEP-2005 04:17:55
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050925_234507_20050925_184959_20051005_201612	1	26-SEP-2005 04:17:55
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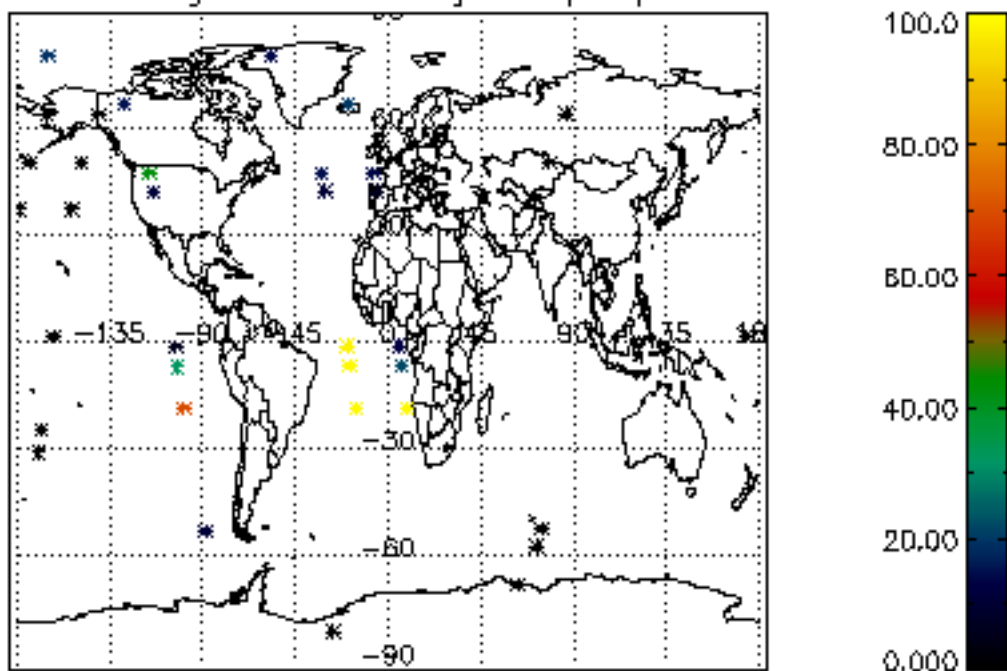




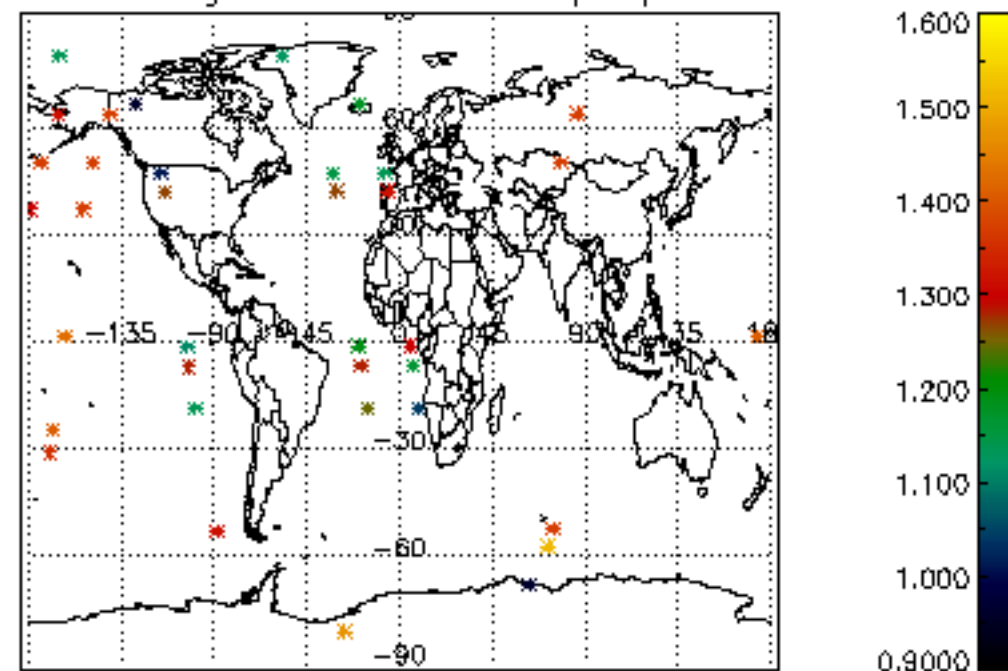




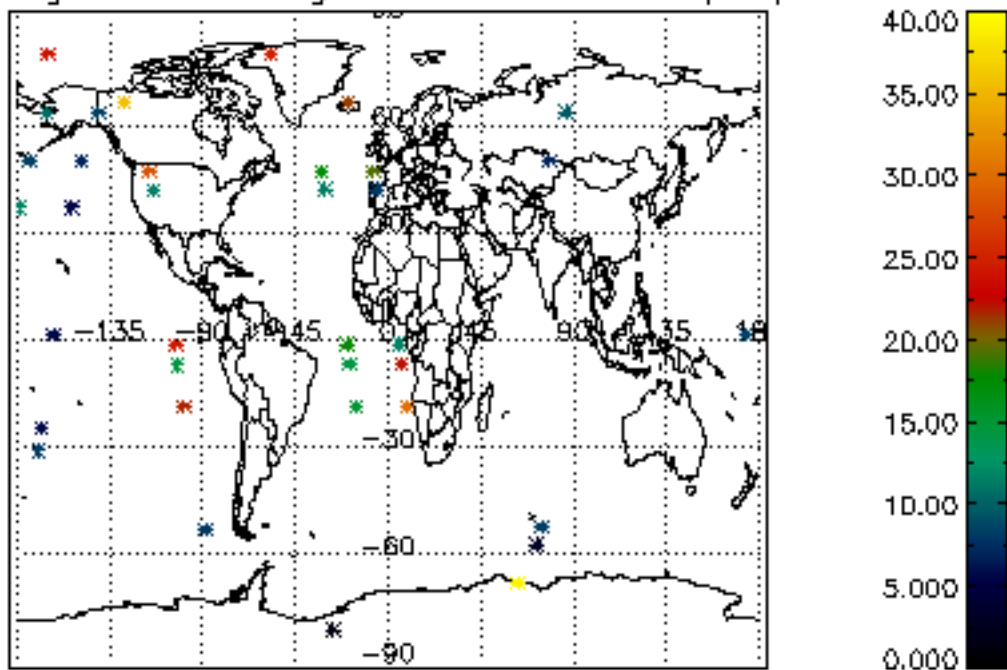
Percentage of cosmic ray hits per profile



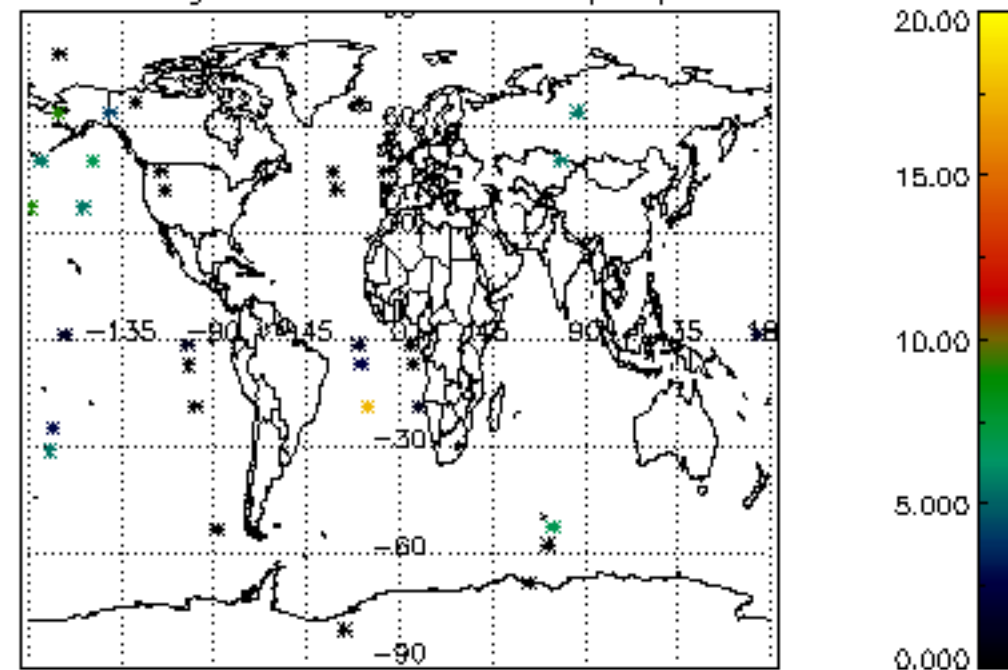
Percentage of datation errors per profile



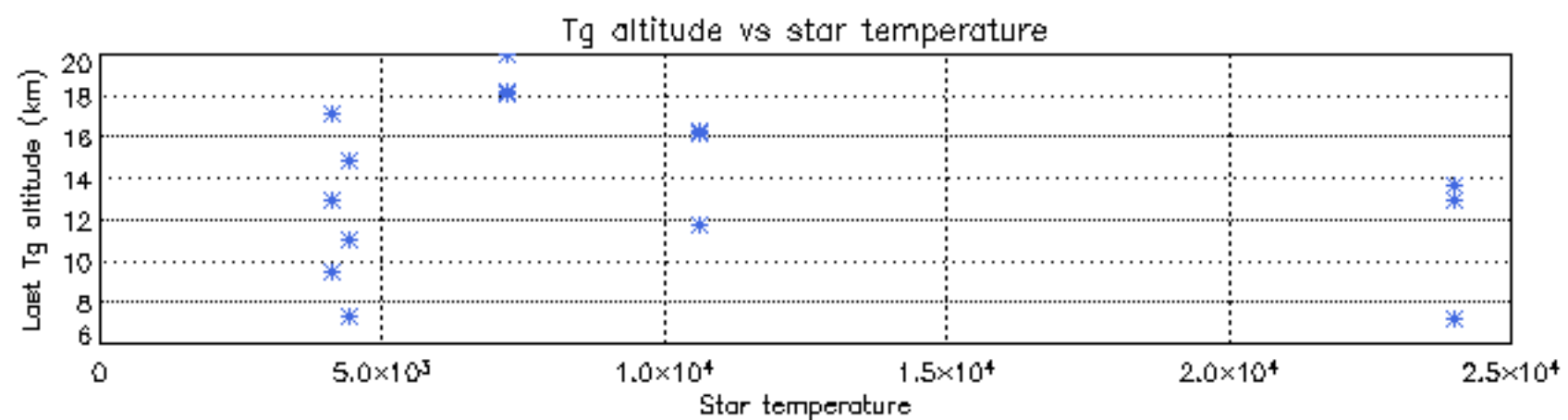
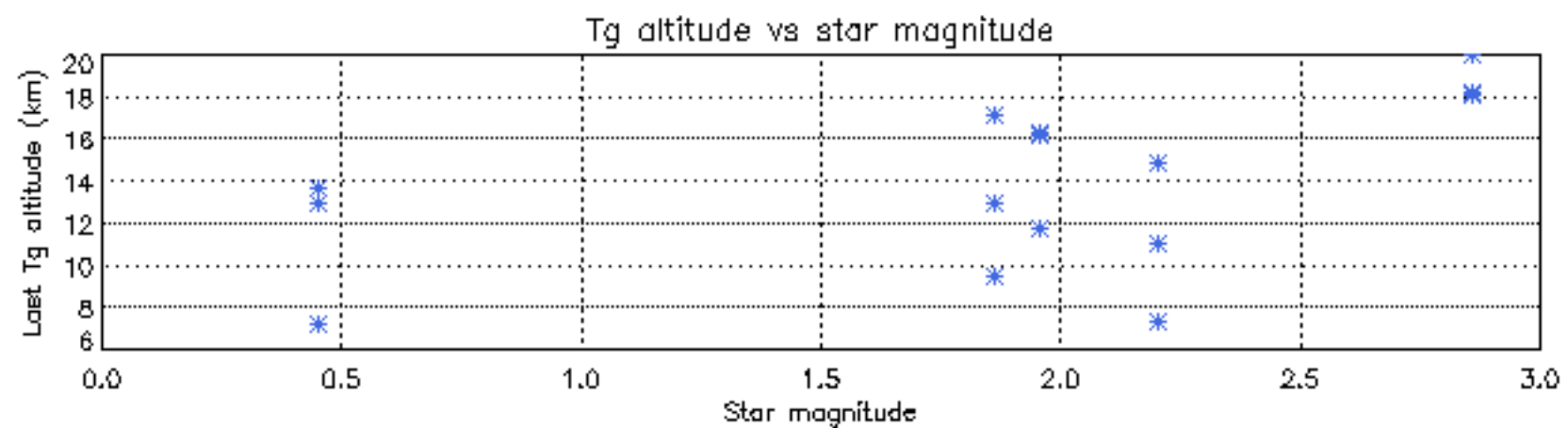
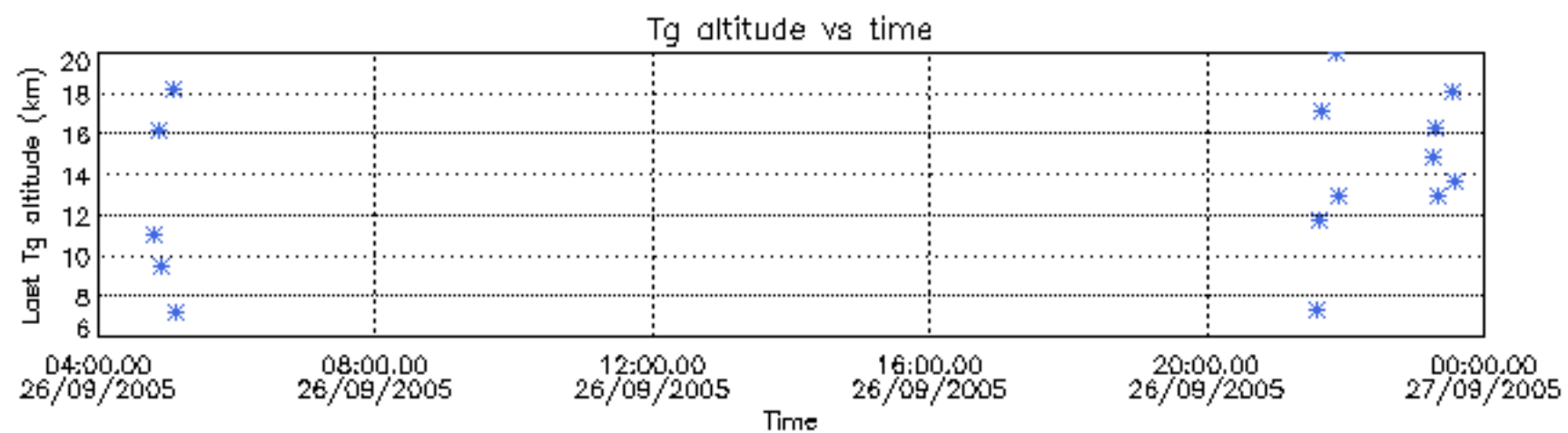
Percentage of star falling outside central band per profile



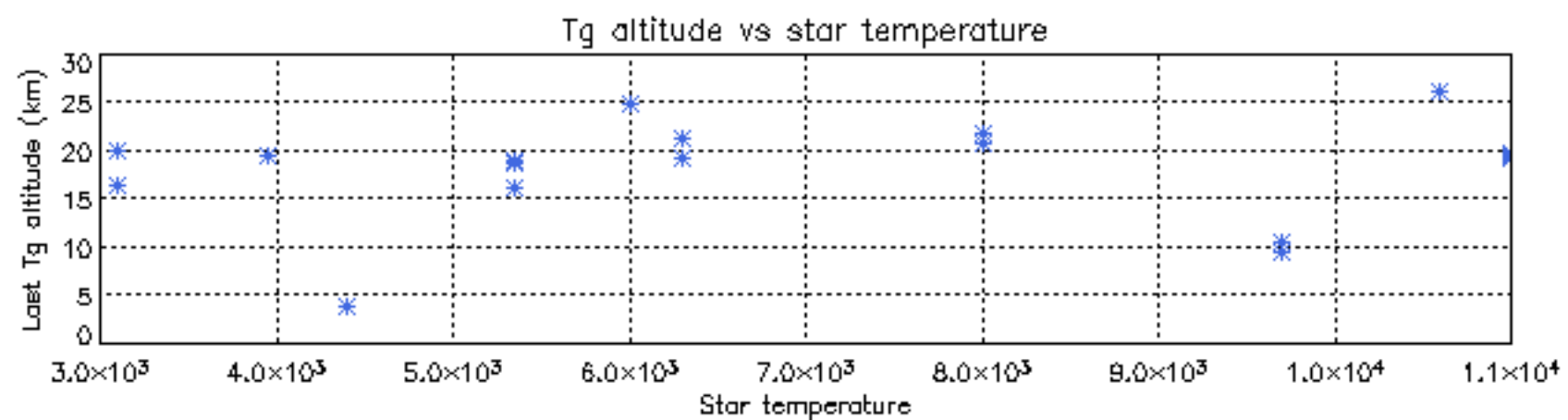
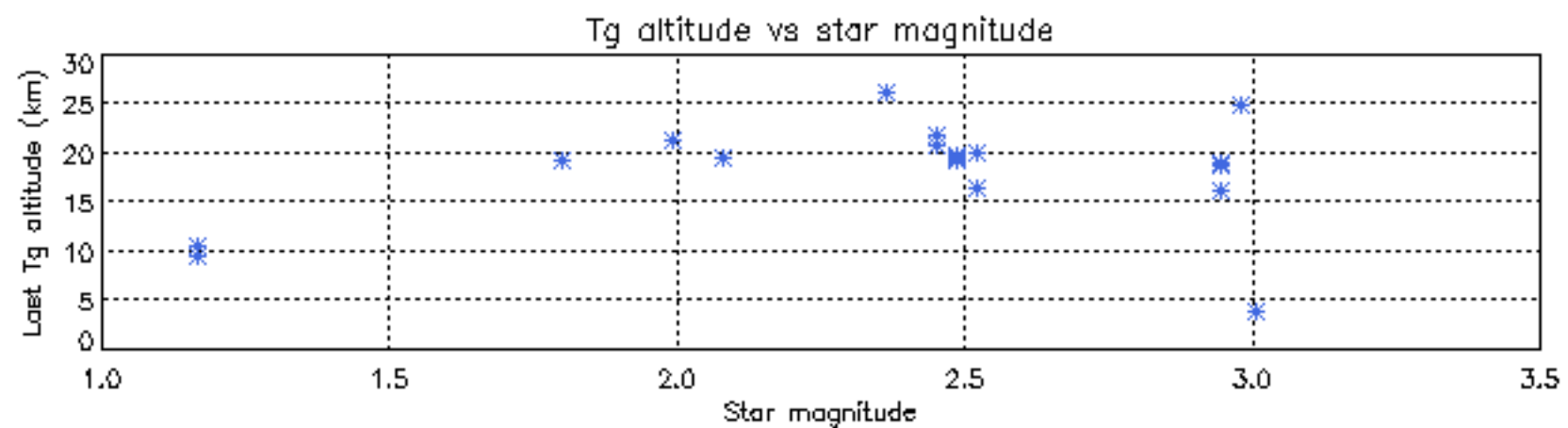
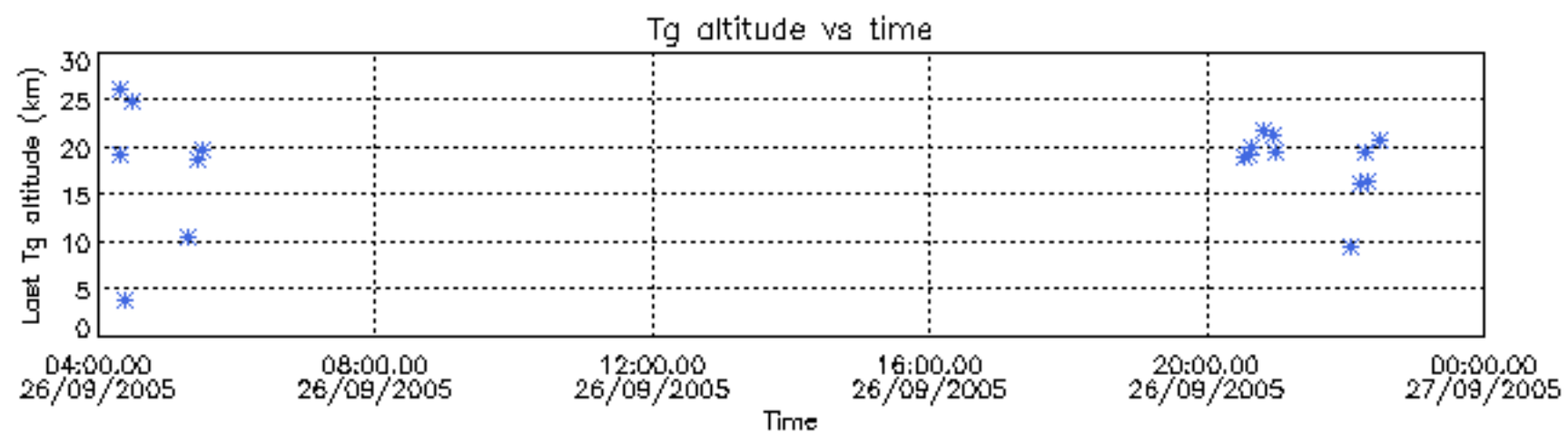
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

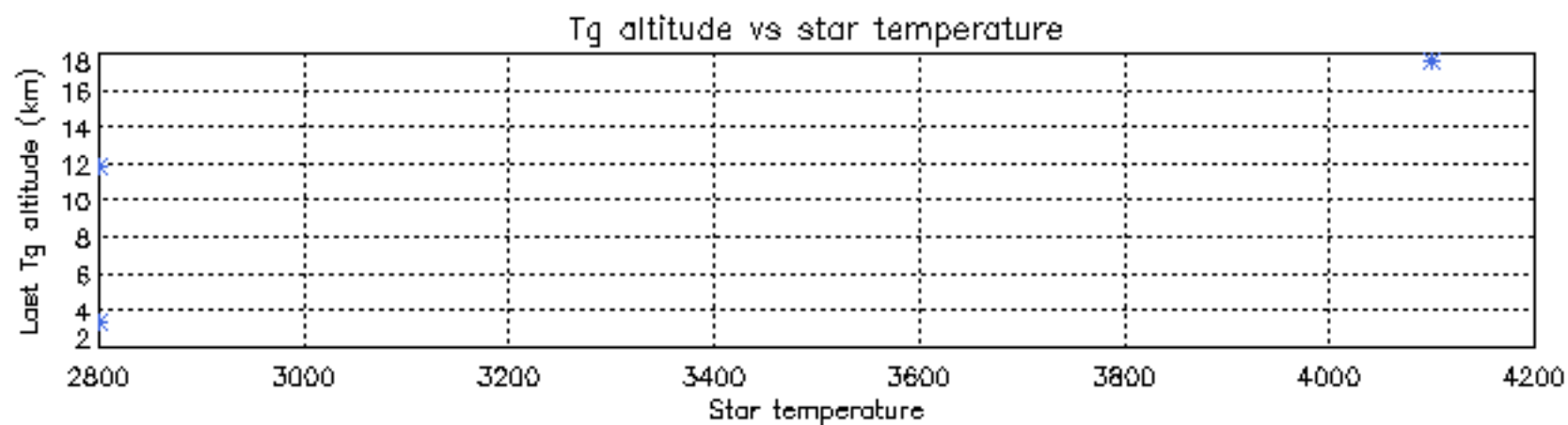
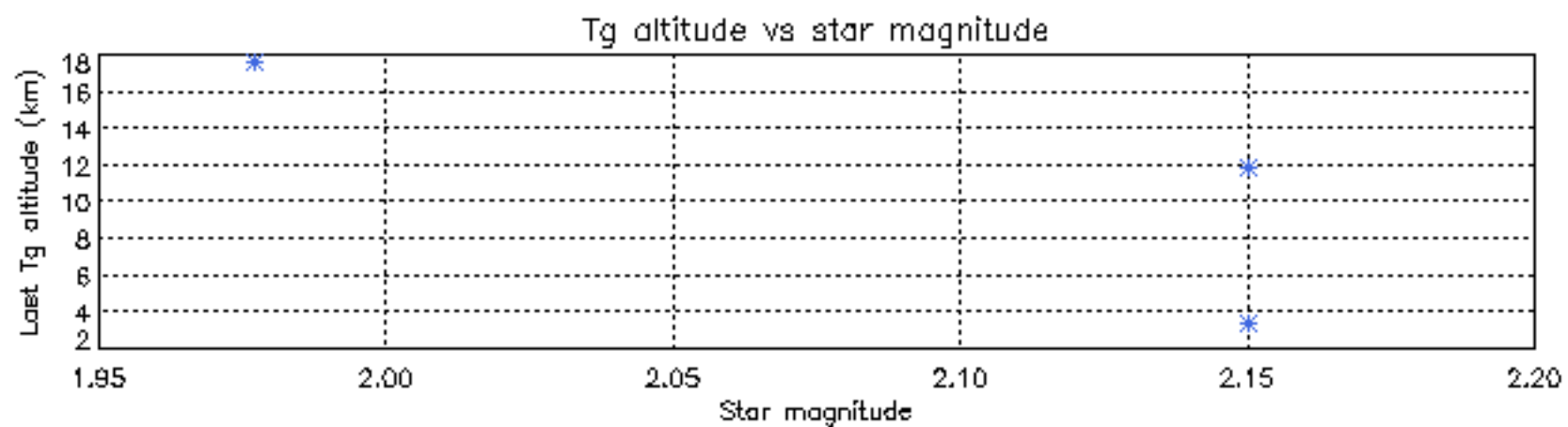
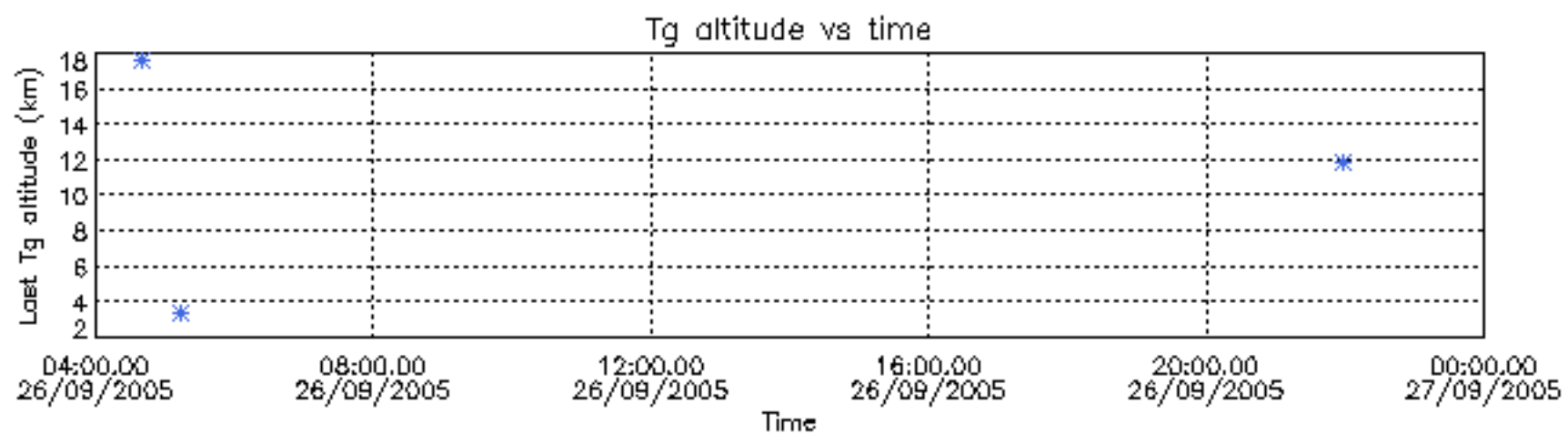


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



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