

# GOMOS Daily Report 14-SEP-2004

## 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](#)

## [Level 2 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	17SEP2004 09:43:22
Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-3D (14SEP2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-3D (15SEP2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	1

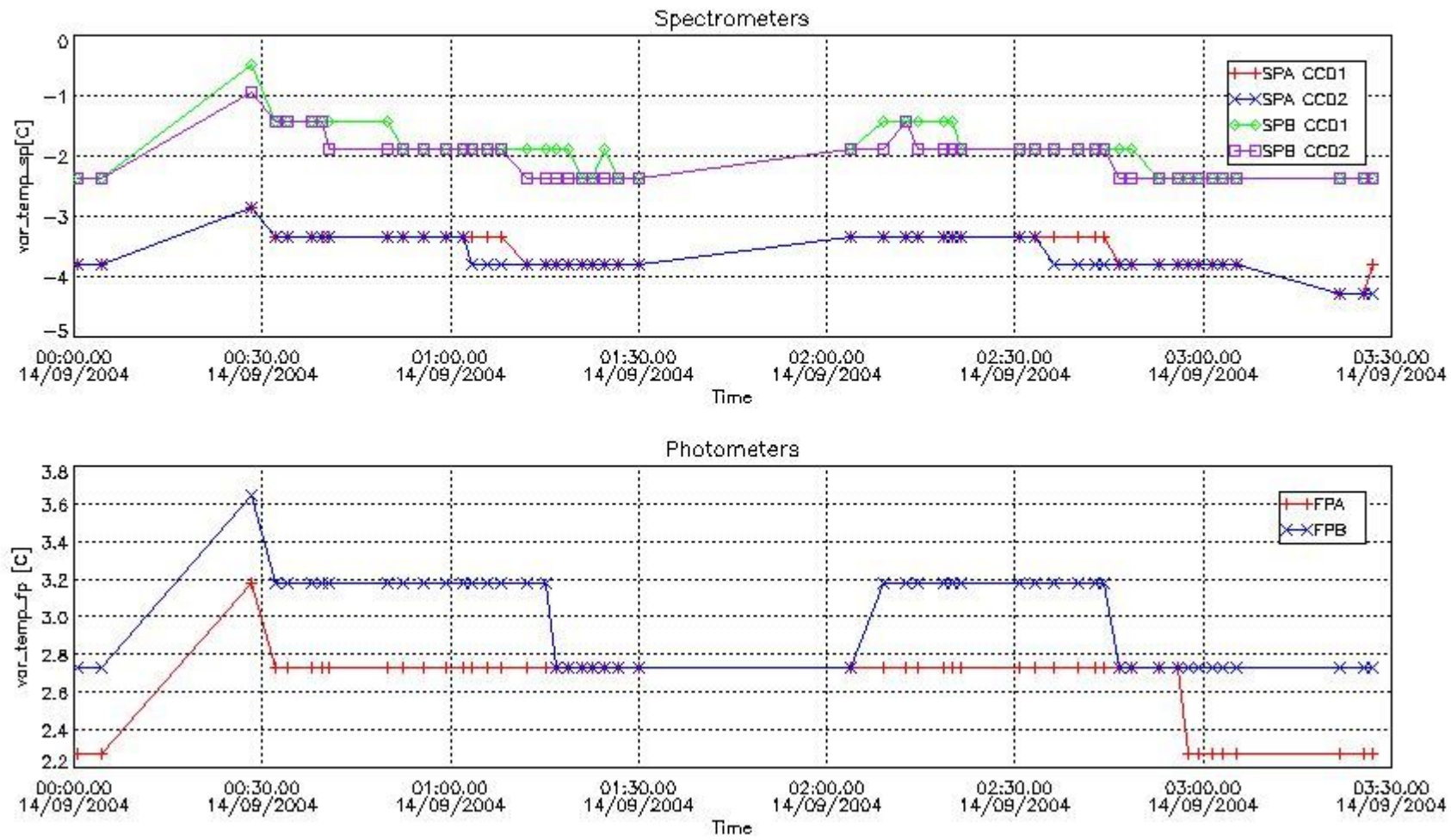
## 2. Summary of products arrived in PCF (Product Control Facility)

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

### 2.2 Summary of processed GOM\_TRA\_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040914_000039_000000682030_00202_13282_0027.N1	14-SEP-2004 00:00:39	Bright	68.000	35	33Alp Per	1.7950	6250.0	136	13282	No
GOM_TRA_1PNPDE20040914_000425_000000402030_00202_13282_0028.N1	14-SEP-2004 00:04:25	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	13282	No
GOM_TRA_1PNPDE20040914_002822_000001282030_00202_13282_0000.N1	14-SEP-2004 00:28:22	Dark	127.50	14	58Alp Ori	0.87000	3000.0	255	13282	Yes
GOM_TRA_1PNPDE20040914_003205_000000602030_00202_13282_0001.N1	14-SEP-2004 00:32:05	Dark	60.000	1	9Alp CMa	-1.4400	11000.	120	13282	No
GOM_TRA_1PNPDE20040914_003354_000000602030_00202_13282_0002.N1	14-SEP-2004 00:33:54	Dark	59.500	47	2Bet CMa	1.9760	28000.	119	13282	No
GOM_TRA_1PNPDE20040914_003756_000000412030_00202_13282_0003.N1	14-SEP-2004 00:37:56	Dark	41.000	46	Del Vel	1.9540	10600.	82	13282	No
GOM_TRA_1PNPDE20040914_003925_000000512030_00202_13282_0004.N1	14-SEP-2004 00:39:25	Dark	50.500	161	Tau Pup	2.9310	4500.0	101	13282	No
GOM_TRA_1PNPDE20040914_004041_000000562030_00203_13283_0005.N1	14-SEP-2004 00:40:41	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	13283	No
GOM_TRA_1PNPDE20040914_005004_000000392030_00203_13283_0006.N1	14-SEP-2004 00:50:04	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	13283	No
GOM_TRA_1PNPDE20040914_005226_000000482030_00203_13283_0007.N1	14-SEP-2004 00:52:26	Dark	48.000	9	Alp Eri	0.45300	24000.	96	13283	No
GOM_TRA_1PNPDE20040914_005537_000000412030_00203_13283_0008.N1	14-SEP-2004 00:55:37	Dark	41.000	148	Alp Tuc	2.8780	4100.0	82	13283	No
GOM_TRA_1PNPDE20040914_005920_000000422030_00203_13283_0009.N1	14-SEP-2004 00:59:20	Twilight	42.000	31	Alp Gru	1.7340	15200.	84	13283	No
GOM_TRA_1PNPDE20040914_010207_000000402030_00203_13283_0010.N1	14-SEP-2004 01:02:07	Bright	40.000	172	Gam Gru	3.0030	13100.	80	13283	No
GOM_TRA_1PNPDE20040914_010331_000000492030_00203_13283_0011.N1	14-SEP-2004 01:03:31	Bright	48.500	18	24Alp PsA	1.1660	9700.0	97	13283	No
GOM_TRA_1PNPDE20040914_010600_000000642030_00203_13283_0012.N1	14-SEP-2004 01:06:00	Bright	63.500	52	16Bet Cet	2.0370	4500.0	127	13283	No
GOM_TRA_1PNPDE20040914_010803_000000392030_00203_13283_0013.N1	14-SEP-2004 01:08:03	Bright	39.000	142	49Del Cap	2.8500	8900.0	78	13283	No
GOM_TRA_1PNPDE20040914_011218_000000402030_00203_13283_0014.N1	14-SEP-2004 01:12:18	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	13283	No
GOM_TRA_1PNPDE20040914_011518_000000392030_00203_13283_0015.N1	14-SEP-2004 01:15:18	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	13283	No
GOM_TRA_1PNPDE20040914_011658_000000442030_00203_13283_0016.N1	14-SEP-2004 01:16:58	Bright	43.500	90	54Alp Peg	2.4870	11000.	87	13283	No
GOM_TRA_1PNPDE20040914_011840_000000522030_00203_13283_0017.N1	14-SEP-2004 01:18:40	Bright	51.500	140	88Gam Peg	2.8340	26000.	103	13283	No
GOM_TRA_1PNPDE20040914_012053_000000462030_00203_13283_0018.N1	14-SEP-2004 01:20:53	Bright	46.000	93	53Bet Peg	2.5200	3100.0	92	13283	No
GOM_TRA_1PNPDE20040914_012232_000000402030_00203_13283_0019.N1	14-SEP-2004 01:22:32	Bright	39.500	92	53Eps Cyg	2.5000	4500.0	79	13283	No
GOM_TRA_1PNPDE20040914_012439_000000372030_00203_13283_0020.N1	14-SEP-2004 01:24:39	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	13283	No
GOM_TRA_1PNPDE20040914_012646_000000382030_00203_13283_0021.N1	14-SEP-2004 01:26:46	Bright	38.000	144	18Del Cyg	2.8600	11000.	76	13283	No
GOM_TRA_1PNPDE20040914_013005_000000392030_00203_13283_0022.N1	14-SEP-2004 01:30:05	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	13283	No
GOM_TRA_1PNPDE20040914_020347_000000612030_00203_13283_0000.N1	14-SEP-2004 02:03:47	Twilight	61.000	8	10Alp CMi	0.40000	6500.0	122	13283	No
GOM_TRA_1PNPDE20040914_020900_000001232030_00203_13283_0001.N1	14-SEP-2004 02:09:00	Dark	123.00	14	58Alp Ori	0.87000	3000.0	246	13283	No
GOM_TRA_1PNPDE20040914_021242_000000582030_00203_13283_0002.N1	14-SEP-2004 02:12:42	Dark	58.000	1	9Alp CMa	-1.4400	11000.	116	13283	No
GOM_TRA_1PNPDE20040914_021430_000000602030_00203_13283_0003.N1	14-SEP-2004 02:14:30	Dark	60.000	47	2Bet CMa	1.9760	28000.	120	13283	No
GOM_TRA_1PNPDE20040914_021832_000000382030_00203_13283_0004.N1	14-SEP-2004 02:18:32	Dark	38.000	46	Del Vel	1.9540	10600.	76	13283	No
GOM_TRA_1PNPDE20040914_022000_000000442030_00203_13283_0005.N1	14-SEP-2004 02:20:00	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	13283	No
GOM_TRA_1PNPDE20040914_022120_000000562030_00204_13284_0006.N1	14-SEP-2004 02:21:20	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	13284	No
GOM_TRA_1PNPDE20040914_023040_000000392030_00204_13284_0007.N1	14-SEP-2004 02:30:40	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13284	No
GOM_TRA_1PNPDE20040914_023303_000000472030_00204_13284_0008.N1	14-SEP-2004 02:33:03	Dark	46.500	9	Alp Eri	0.45300	24000.	93	13284	No
GOM_TRA_1PNPDE20040914_023613_000000392030_00204_13284_0009.N1	14-SEP-2004 02:36:13	Dark	38.500	148	Alp Tuc	2.8780	4100.0	77	13284	No
GOM_TRA_1PNPDE20040914_023956_000000432030_00204_13284_0010.N1	14-SEP-2004 02:39:56	Twilight	42.500	31	Alp Gru	1.7340	15200.	85	13284	No
GOM_TRA_1PNPDE20040914_024243_000000402030_00204_13284_0011.N1	14-SEP-2004 02:42:43	Bright	39.500	172	Gam Gru	3.0030	13100.	79	13284	No
GOM_TRA_1PNPDE20040914_024407_000000462030_00204_13284_0012.N1	14-SEP-2004 02:44:07	Bright	46.000	18	24Alp PsA	1.1660	9700.0	92	13284	No
GOM_TRA_1PNPDE20040914_024636_000000642030_00204_13284_0013.N1	14-SEP-2004 02:46:36	Bright	63.500	52	16Bet Cet	2.0370	4500.0	127	13284	No
GOM_TRA_1PNPDE20040914_024837_000000462030_00204_13284_0014.N1	14-SEP-2004 02:48:37	Bright	45.500	142	49Del Cap	2.8500	8900.0	91	13284	No
GOM_TRA_1PNPDE20040914_025254_000000402030_00204_13284_0015.N1	14-SEP-2004 02:52:54	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13284	No
GOM_TRA_1PNPDE20040914_025554_000000392030_00204_13284_0016.N1	14-SEP-2004 02:55:54	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	13284	No
GOM_TRA_1PNPDE20040914_025734_000000442030_00204_13284_0017.N1	14-SEP-2004 02:57:34	Bright	43.500	90	54Alp Peg	2.4870	11000.	87	13284	No
GOM_TRA_1PNPDE20040914_025915_000000532030_00204_13284_0018.N1	14-SEP-2004 02:59:15	Bright	52.500	140	88Gam Peg	2.8340	26000.	105	13284	No
GOM_TRA_1PNPDE20040914_030127_000000452030_00204_13284_0019.N1	14-SEP-2004 03:01:27	Bright	44.500	93	53Bet Peg	2.5200	3100.0	89	13284	No
GOM_TRA_1PNPDE20040914_030309_000000412030_00204_13284_0020.N1	14-SEP-2004 03:03:09	Bright	41.000	92	53Eps Cyg	2.5000	4500.0	82	13284	No
GOM_TRA_1PNPDE20040914_030514_000000372030_00204_13284_0021.N1	14-SEP-2004 03:05:14	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	13284	No
GOM_TRA_1PNPDE20040914_032148_000000702030_00204_13284_0000.N1	14-SEP-2004 03:21:48	Bright	69.500	35	33Alp Per	1.7950	6250.0	139	13284	No
GOM_TRA_1PNPDE20040914_032536_000000412030_00204_13284_0001.N1	14-SEP-2004 03:25:36	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	13284	No

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



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

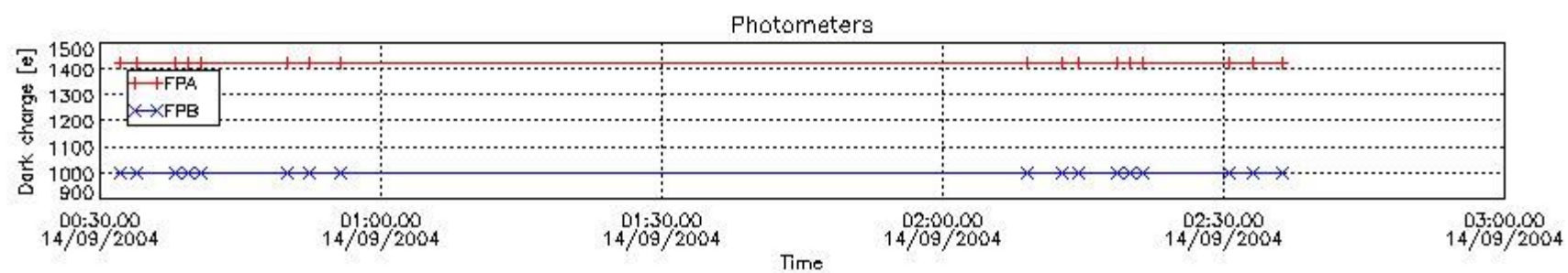
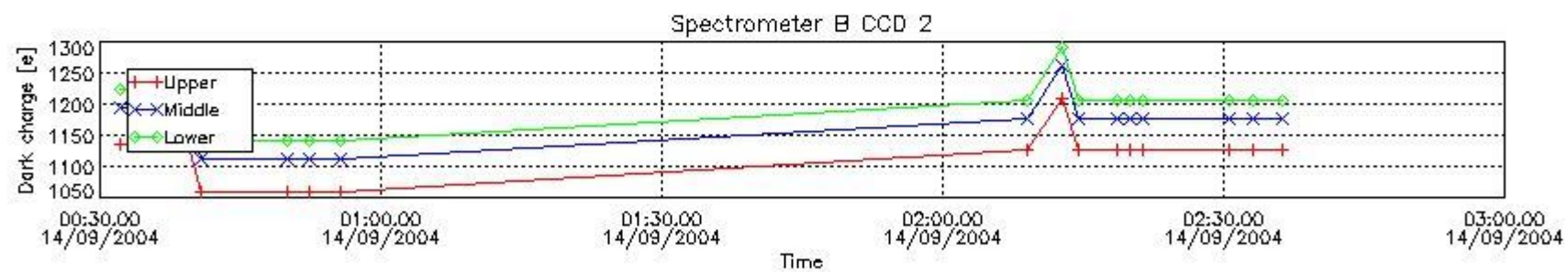
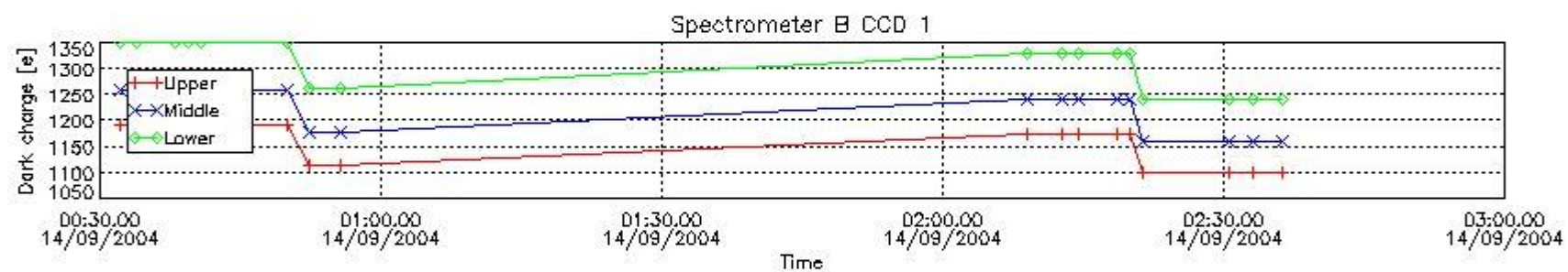
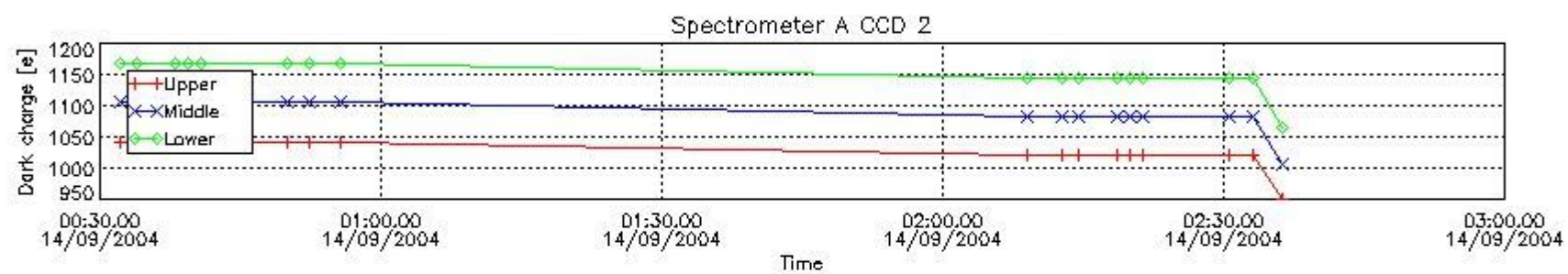
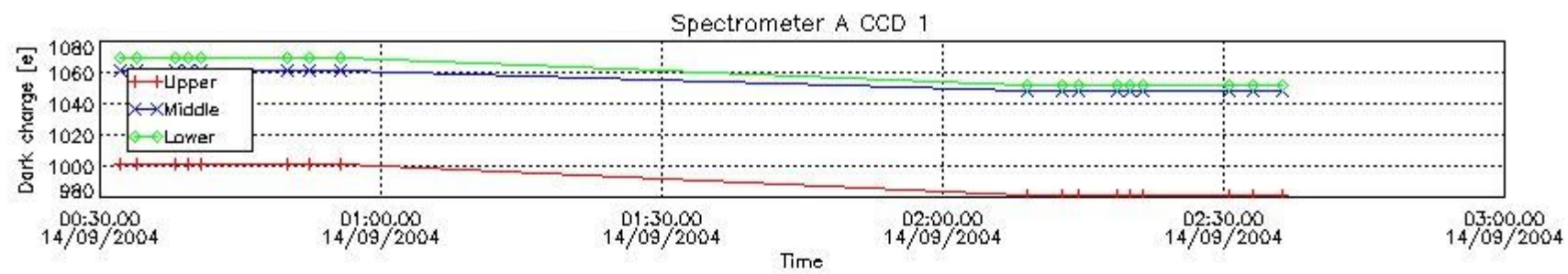
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





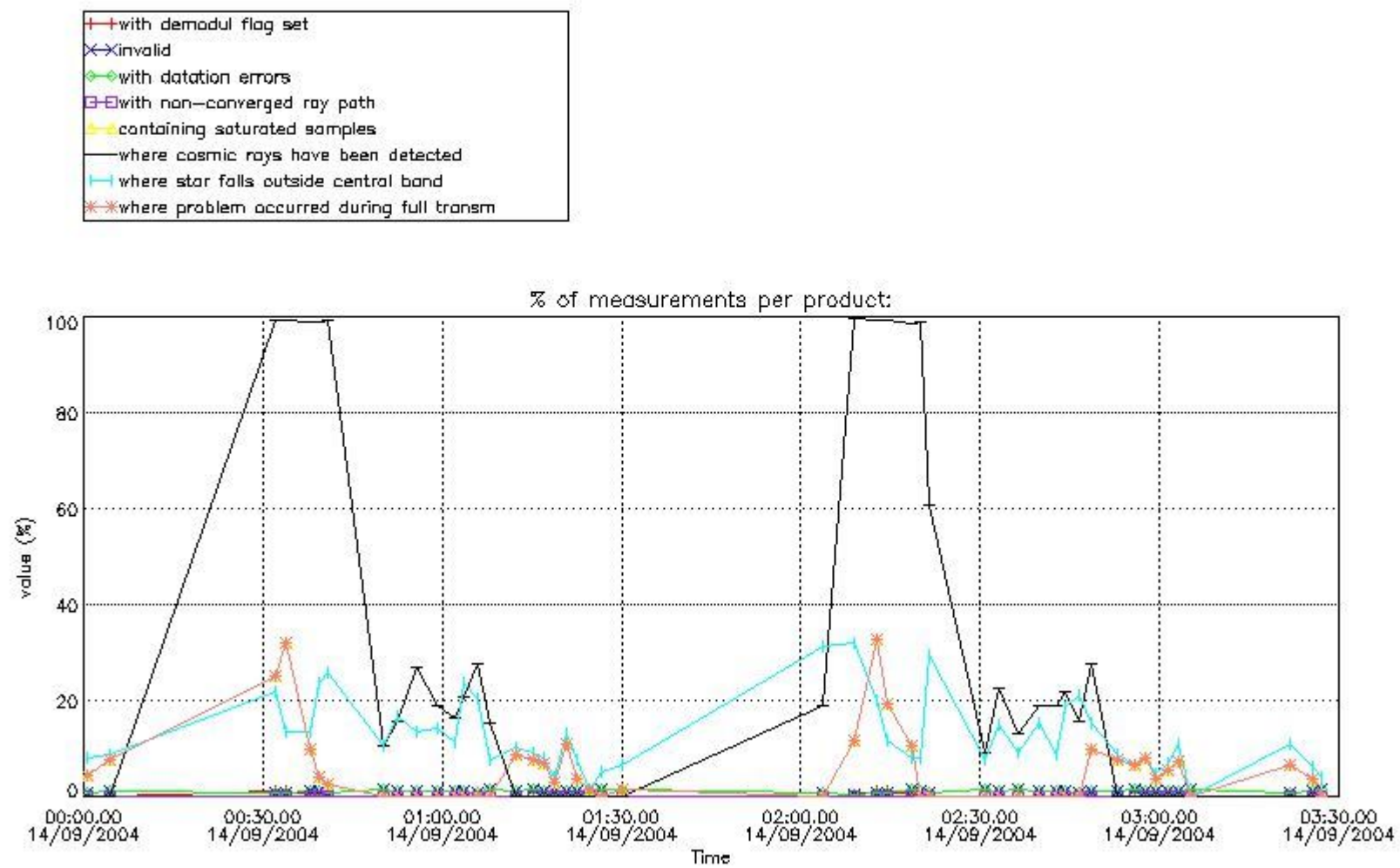
## 5. Demodulation flag and quality information monitoring

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.

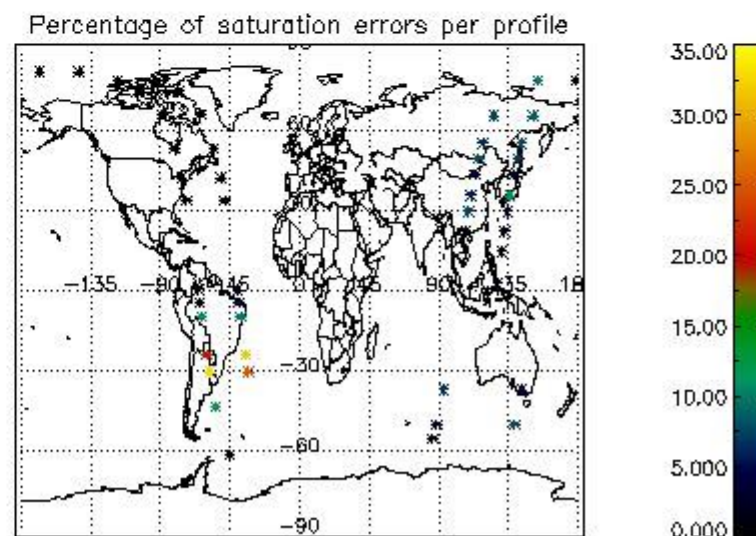
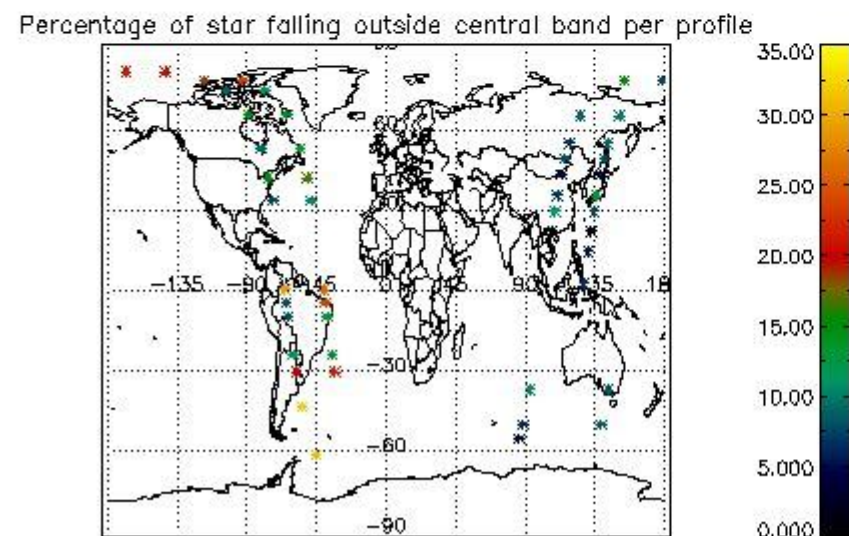
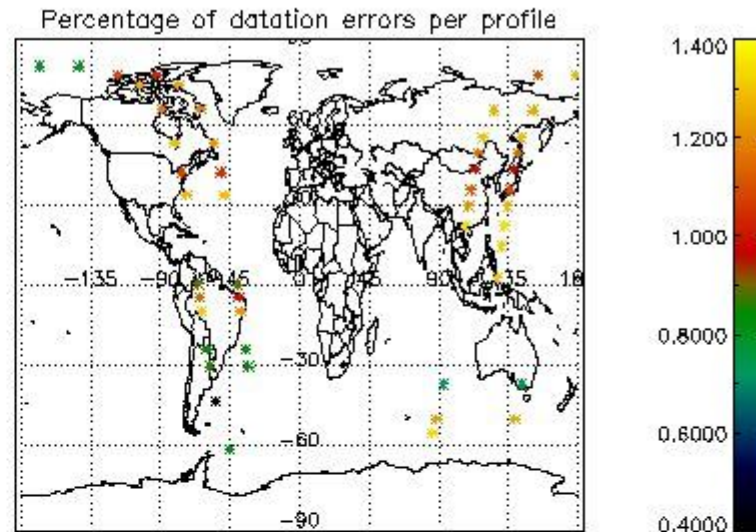
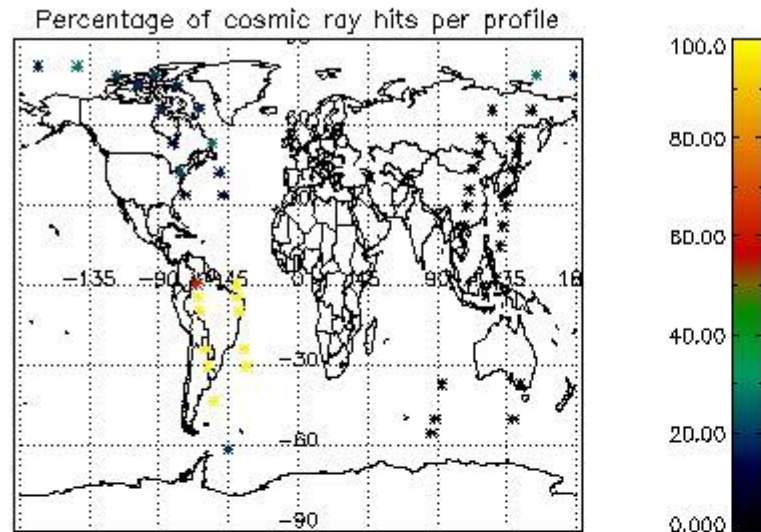
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.4490 %
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)

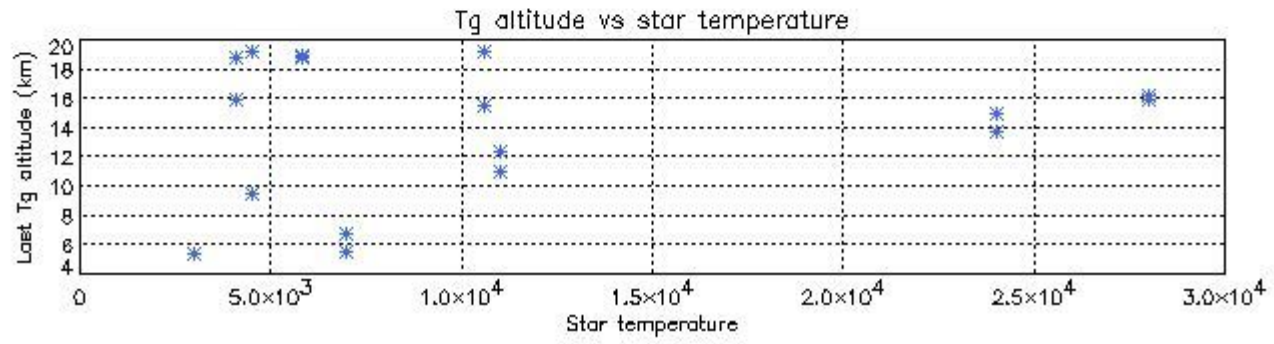
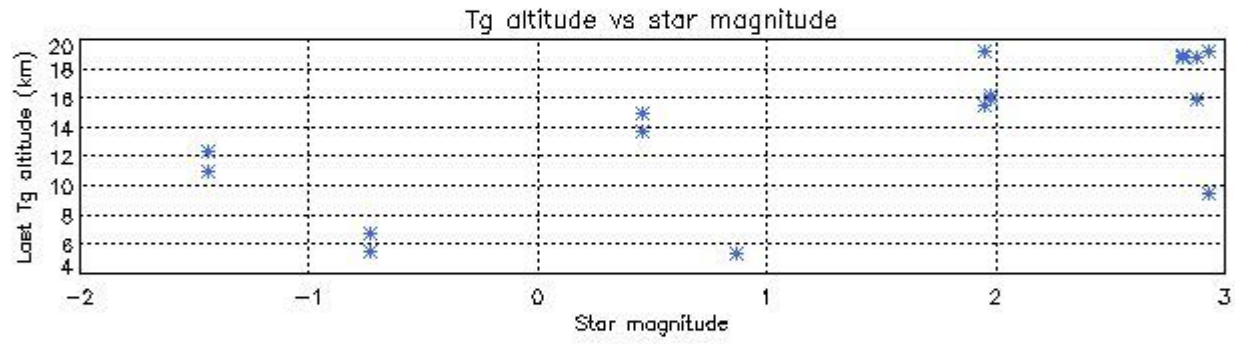
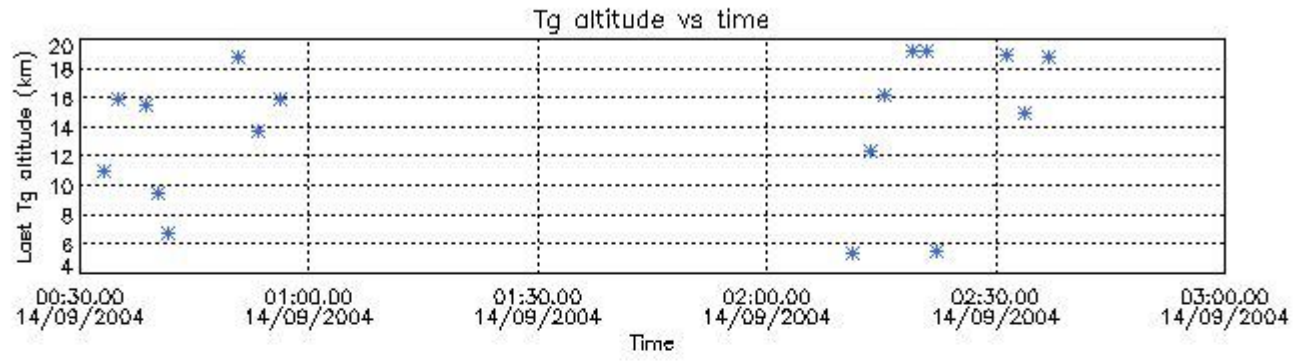
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.973	18.349	11.827
St. deviation:	4.8282	3.8550	5.3830
Maximum:	19.219	25.674	15.129
Minimum:	5.4146	9.9645	5.6152
Number of data:	17.000	29.000	3.0000

### 6.2 Plot for DARK limb products

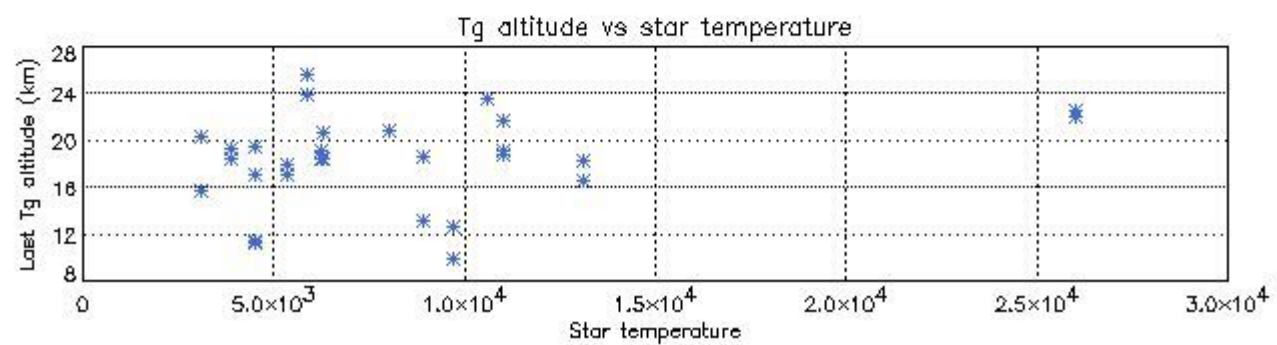
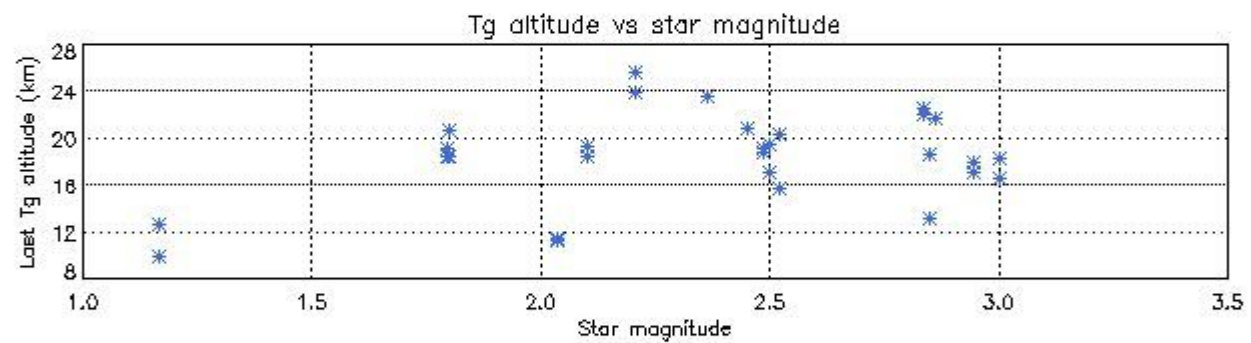
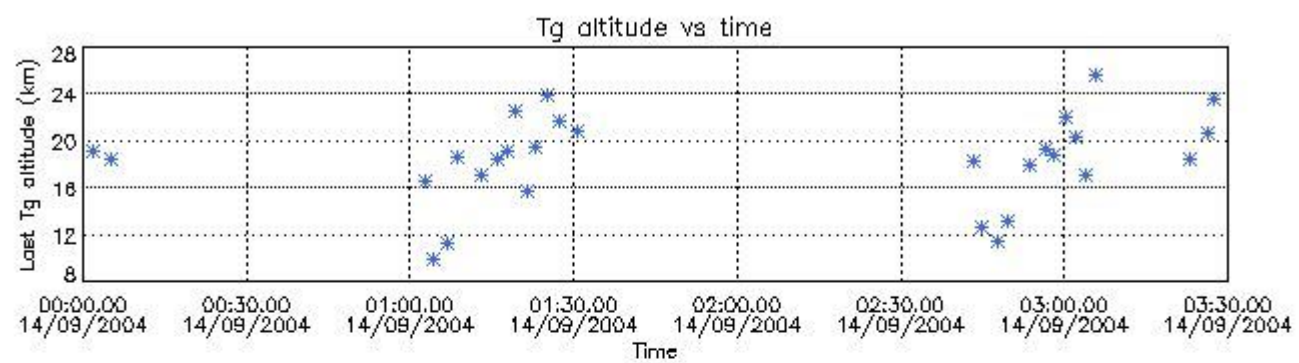


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

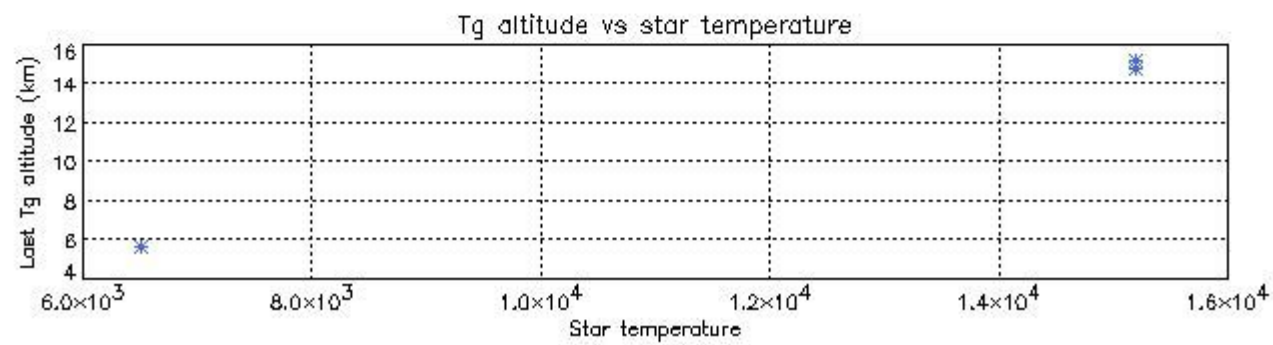
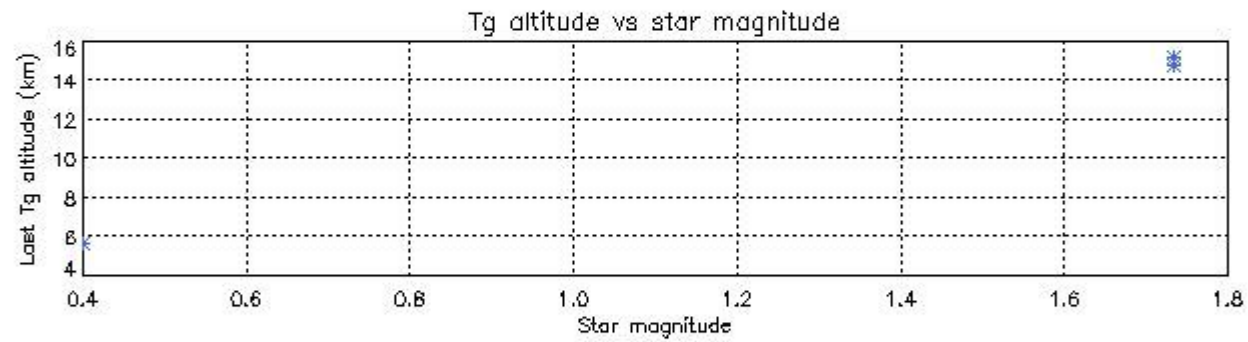
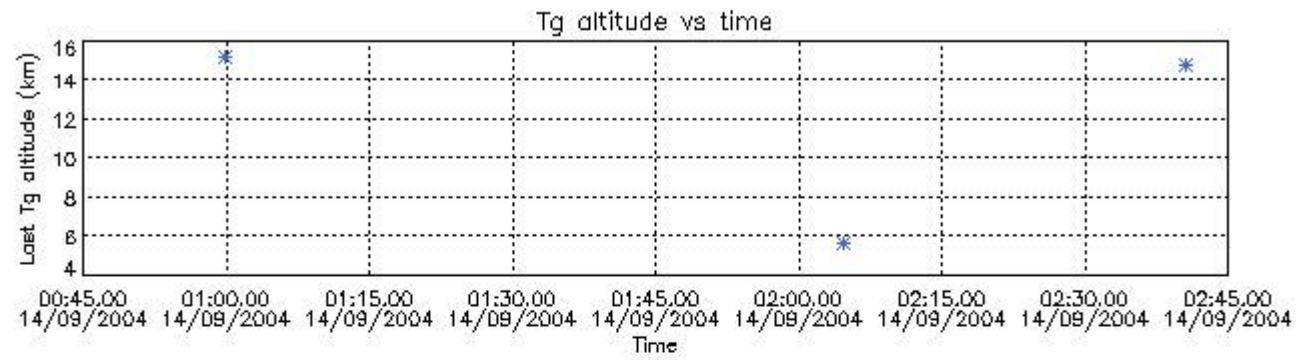
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



Tangent altitude at which the star is lost

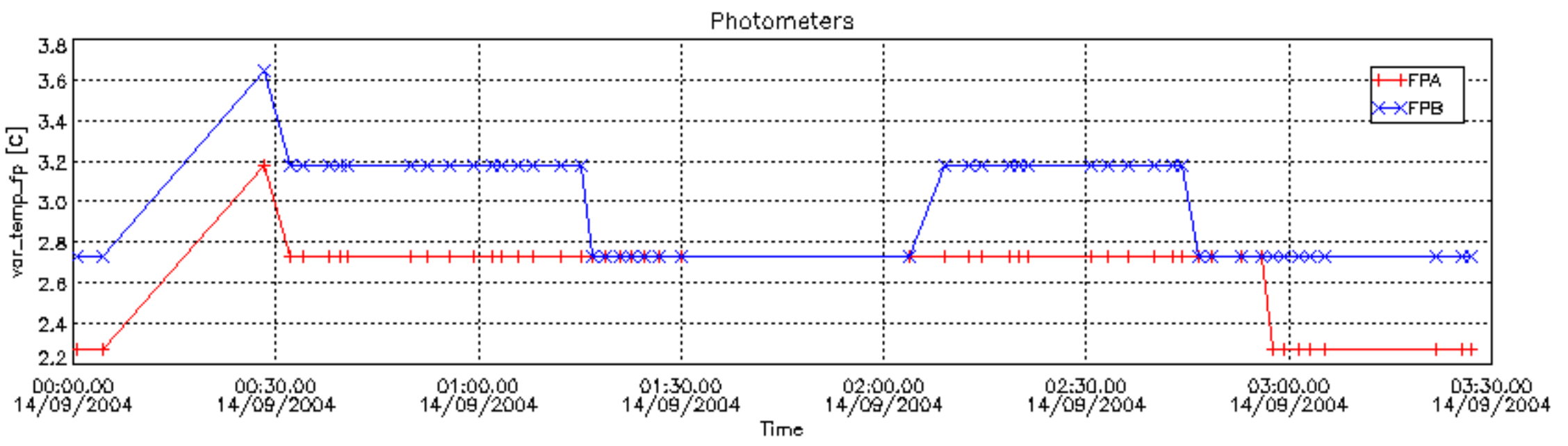
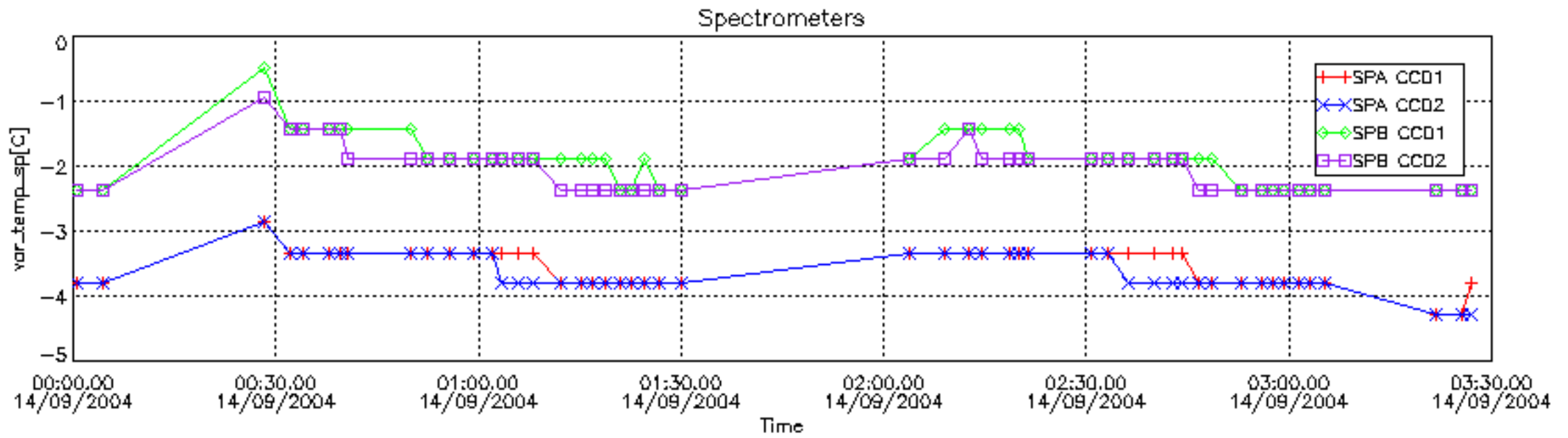


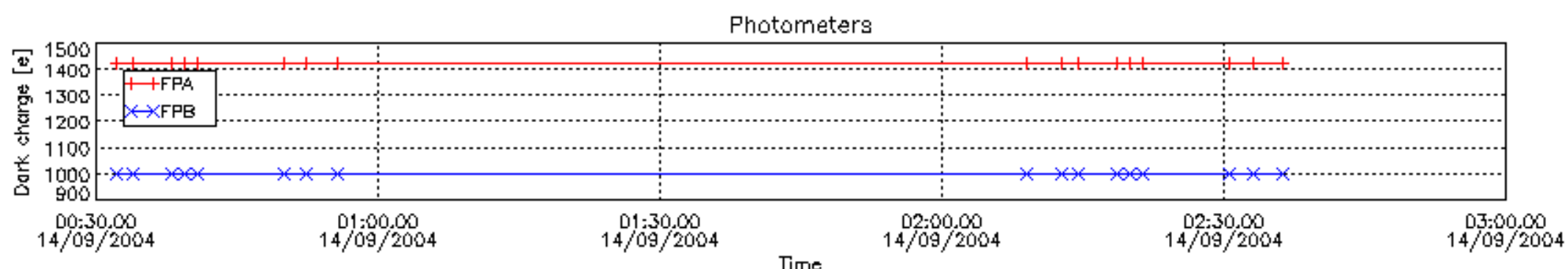
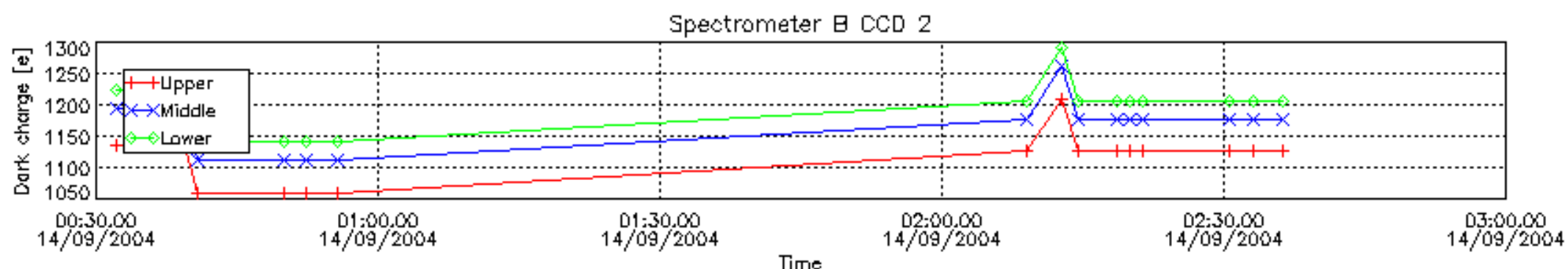
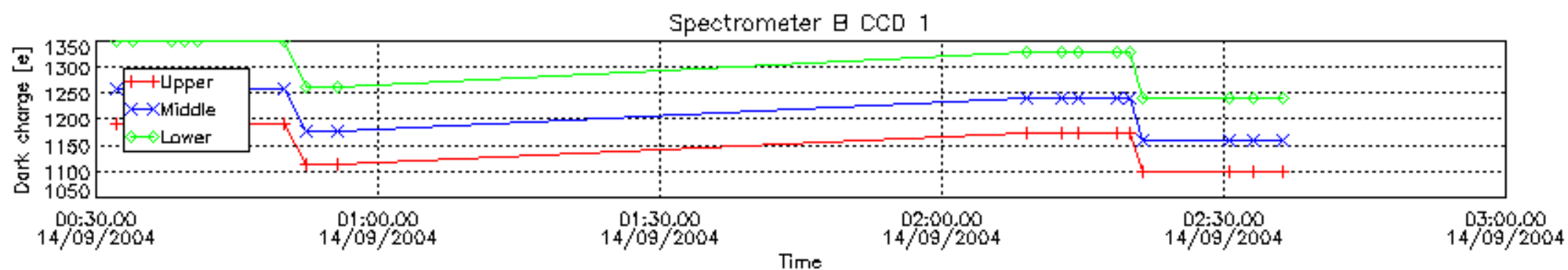
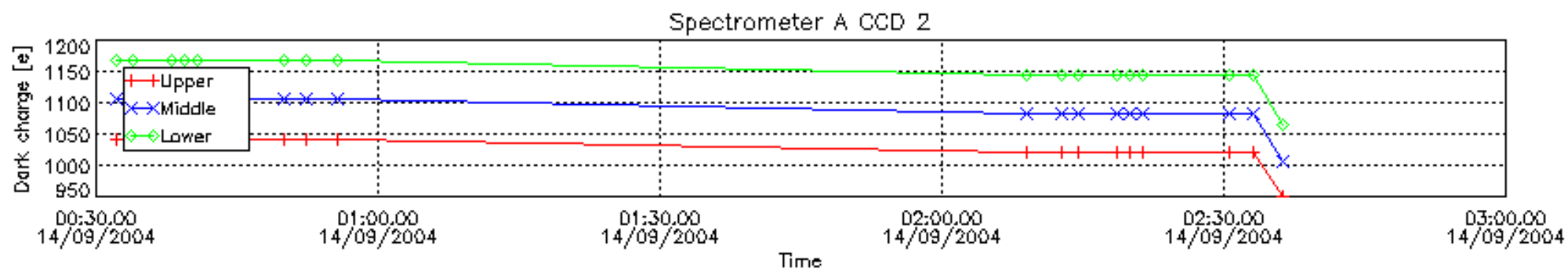
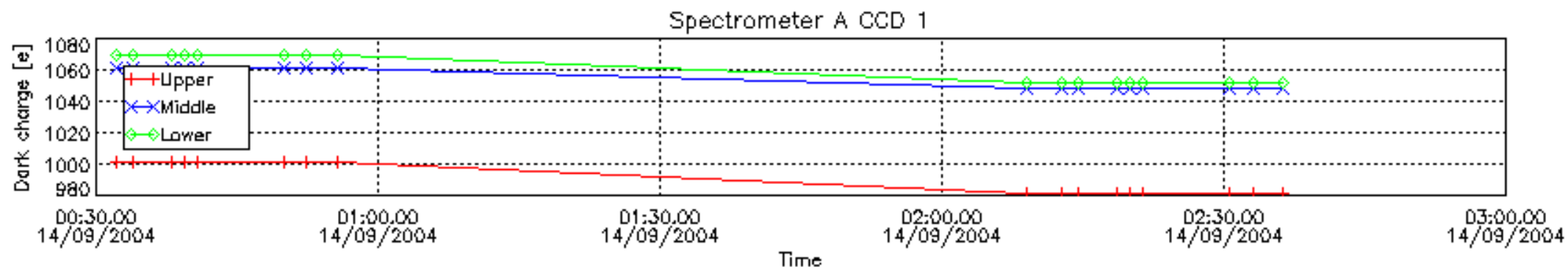
## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

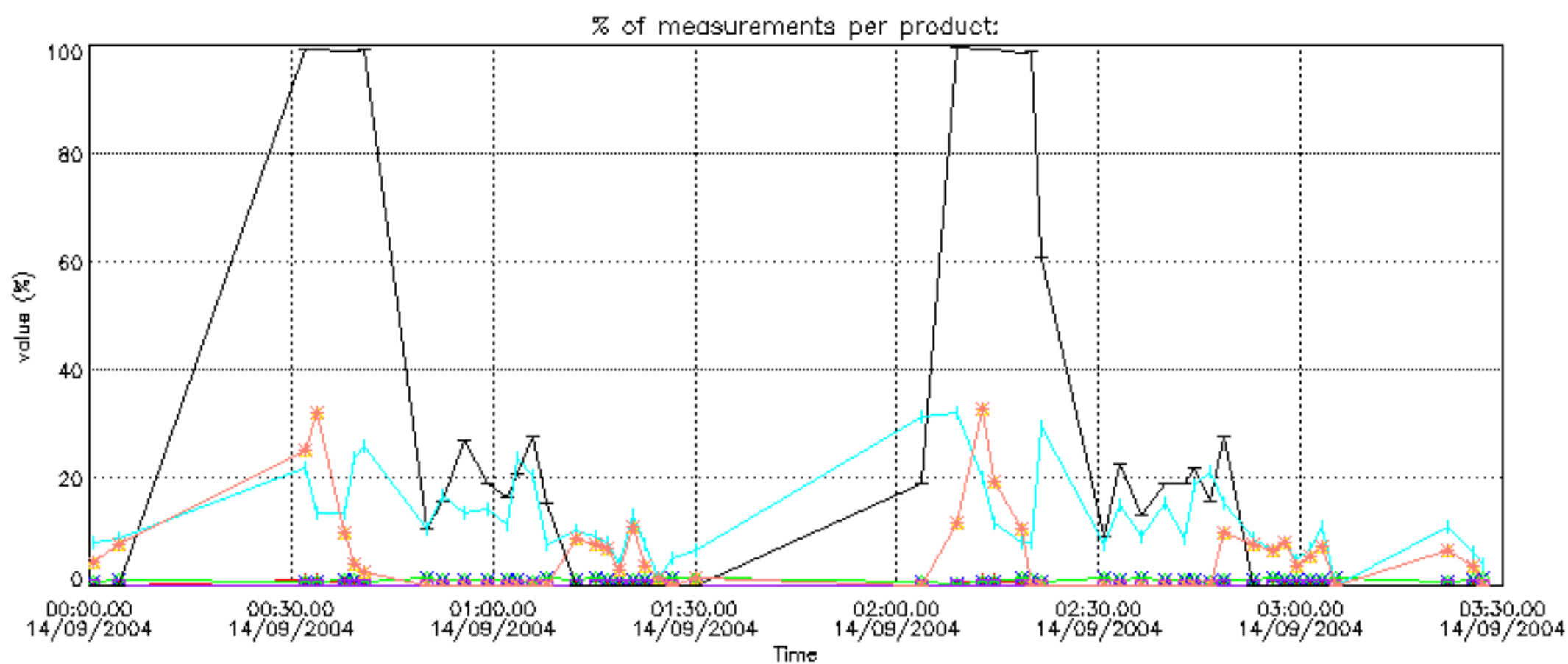
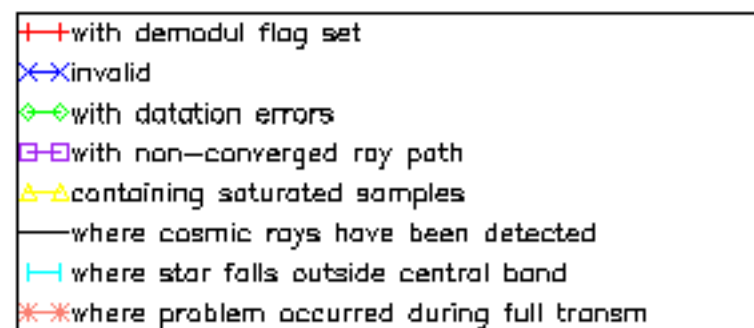
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

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:	1461.2	1447.2	1460.6	1447.2
St. deviation:	4.6605	5.8714	7.1234	8.1203
Maximum:	1724.0	1597.0	1513.0	1507.0
Minimum:	1445.0	1428.0	1424.0	1416.0
Number of data:	22200.	22200.	34800.	34800.

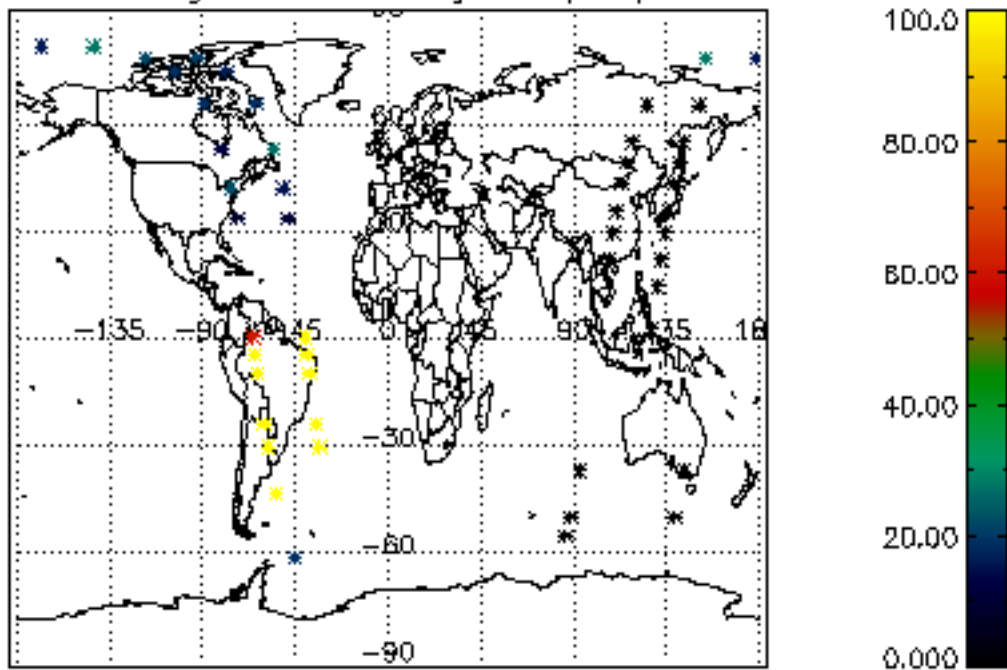




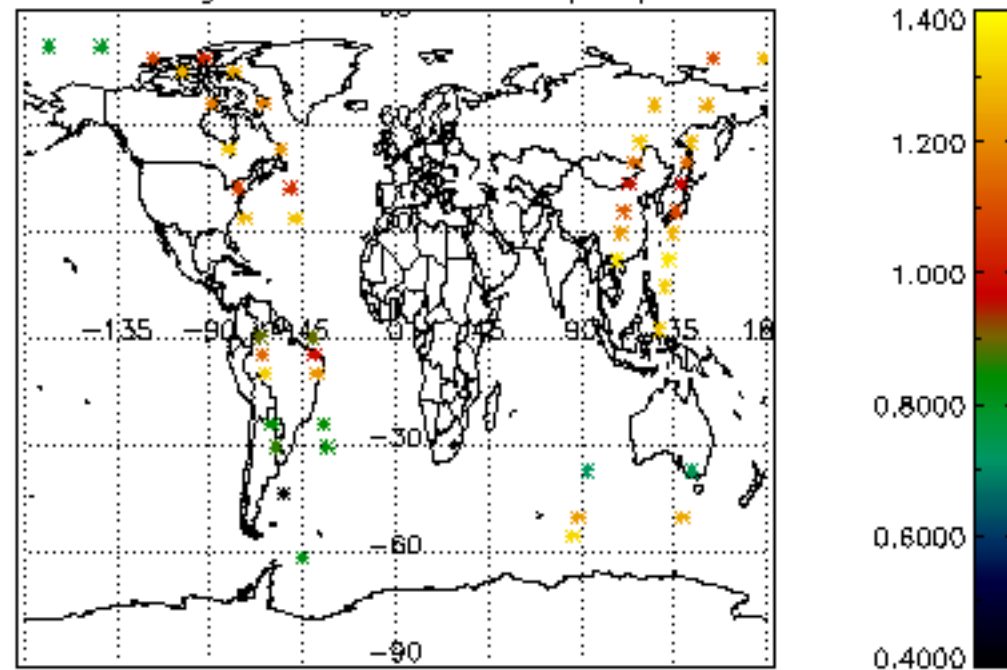




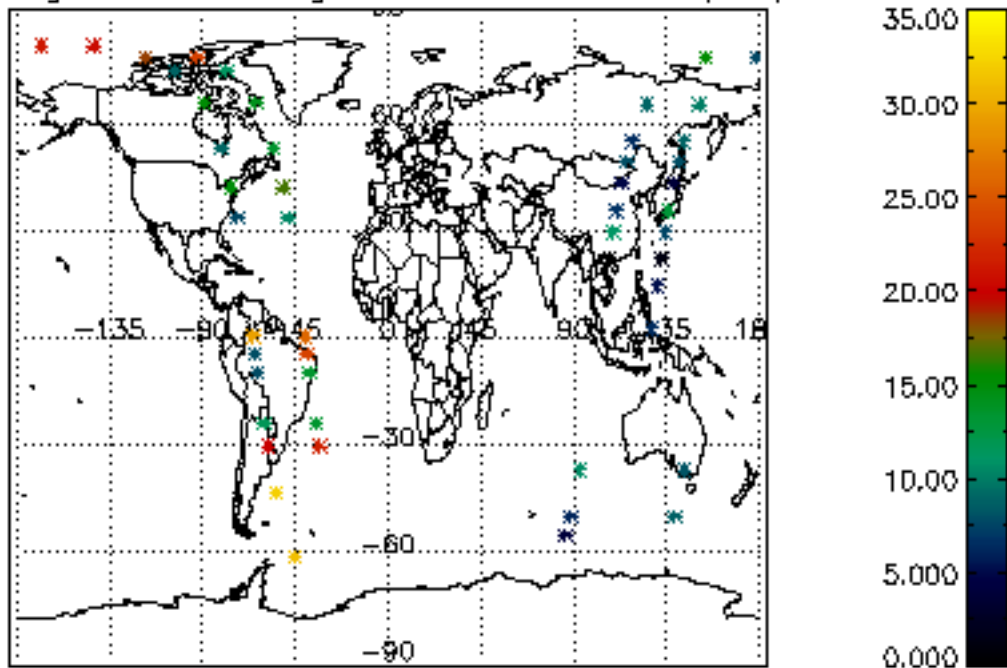
Percentage of cosmic ray hits per profile



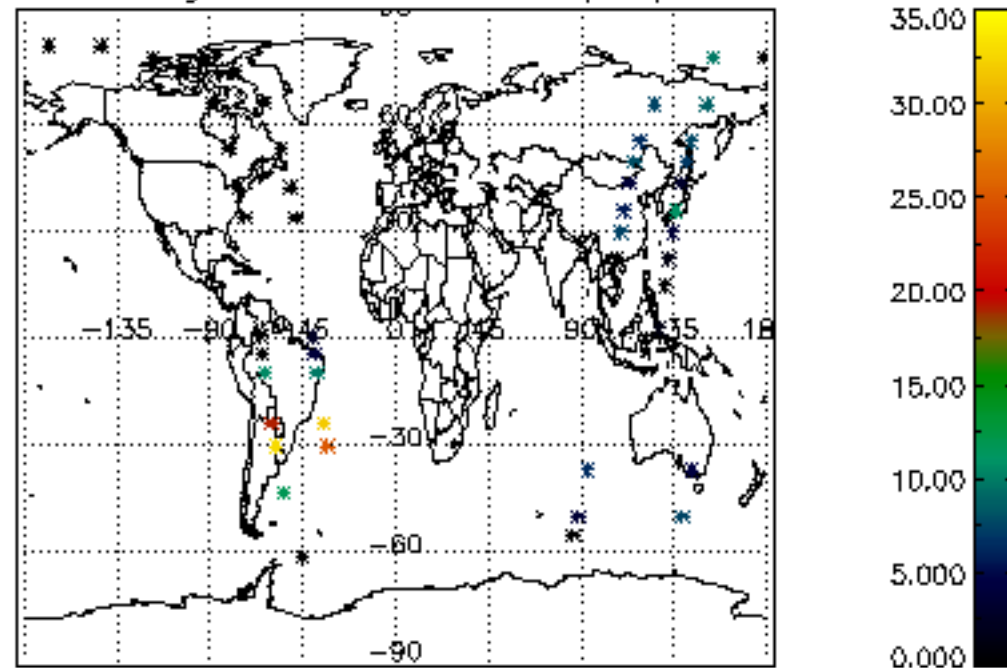
Percentage of datation errors per profile



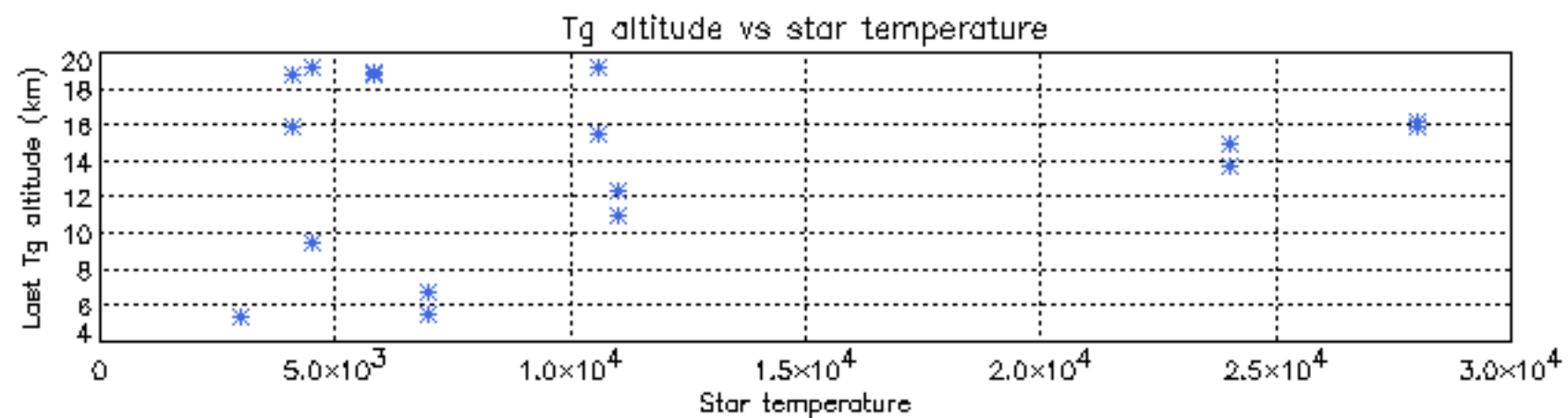
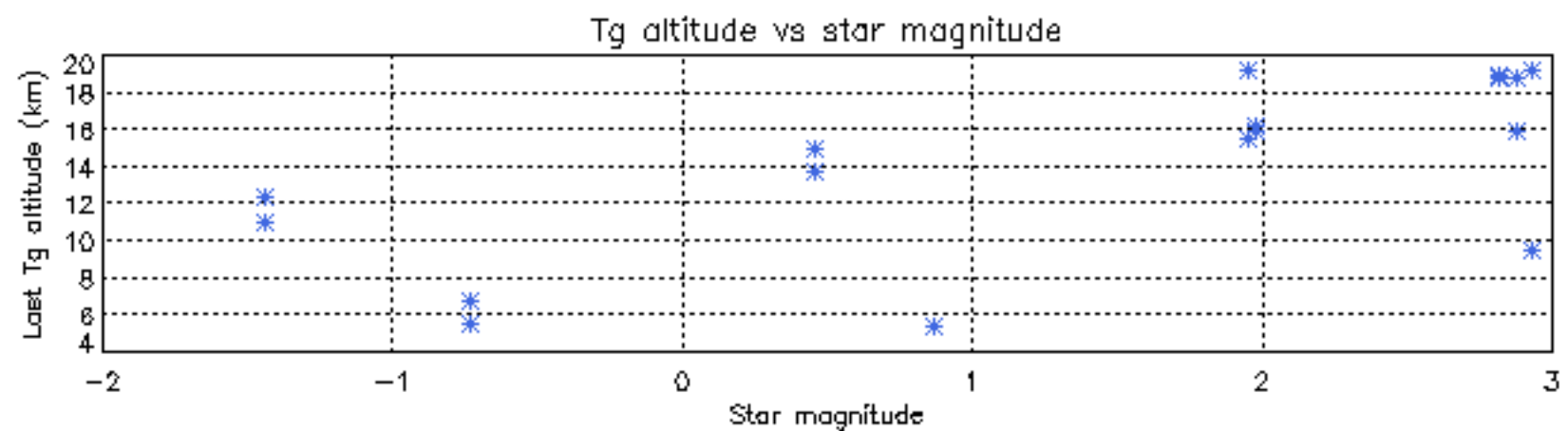
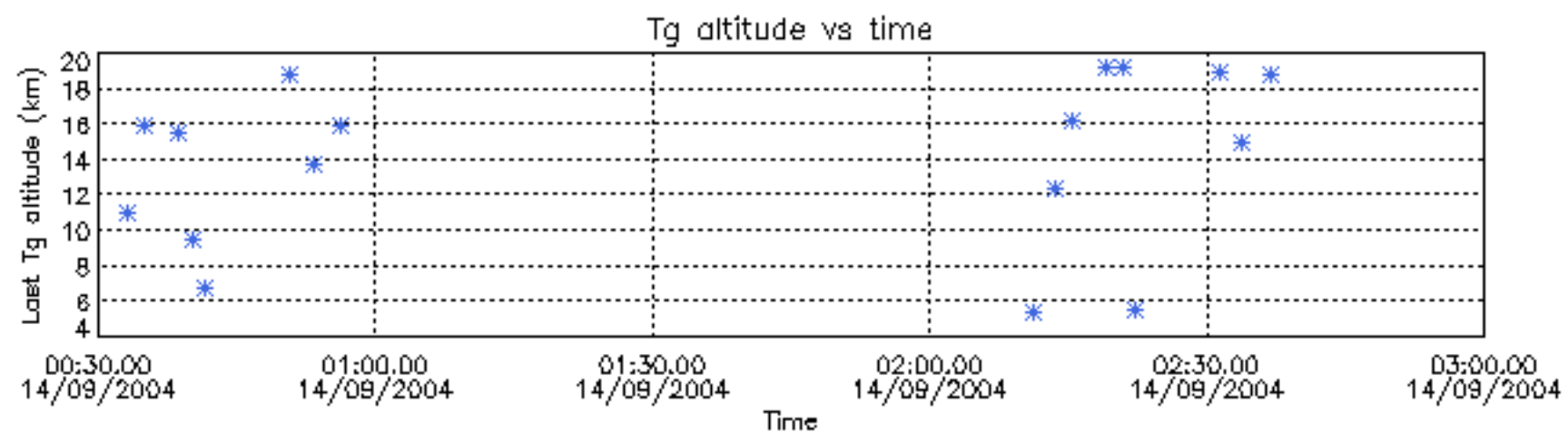
Percentage of star falling outside central band per profile



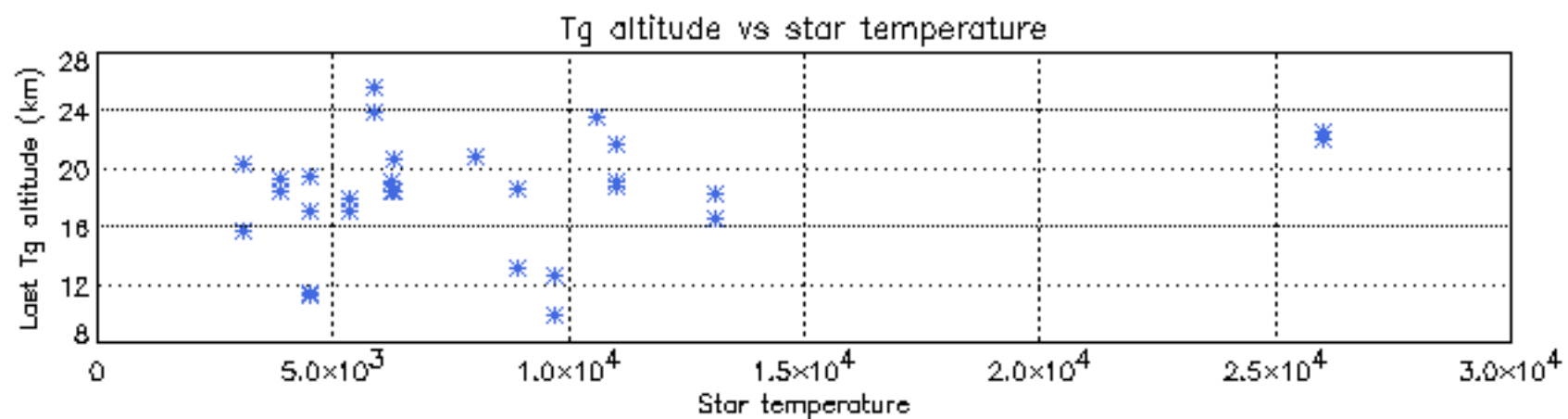
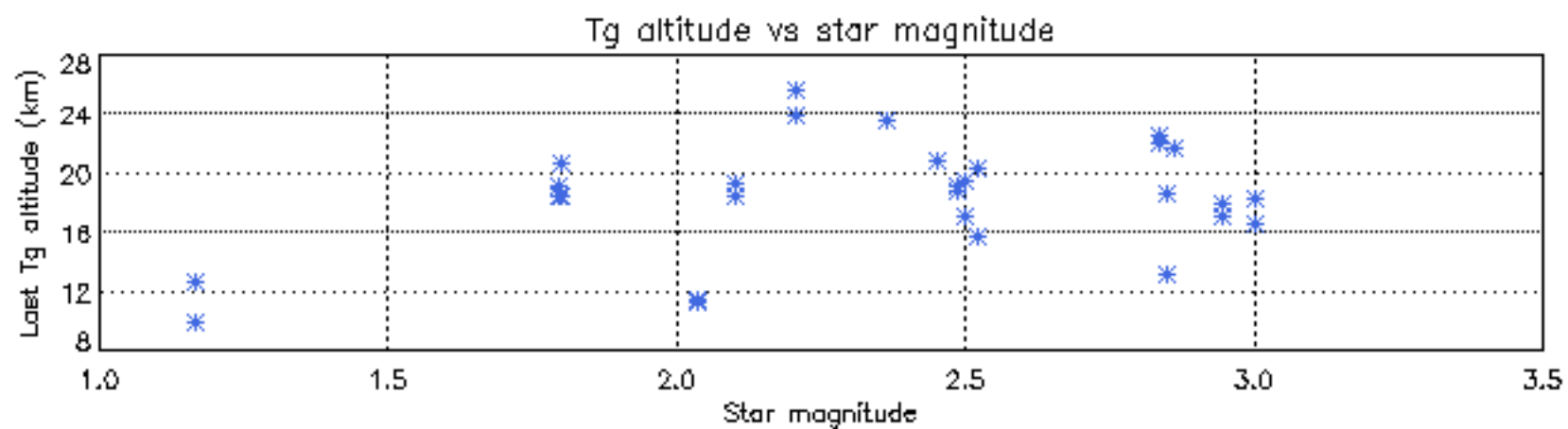
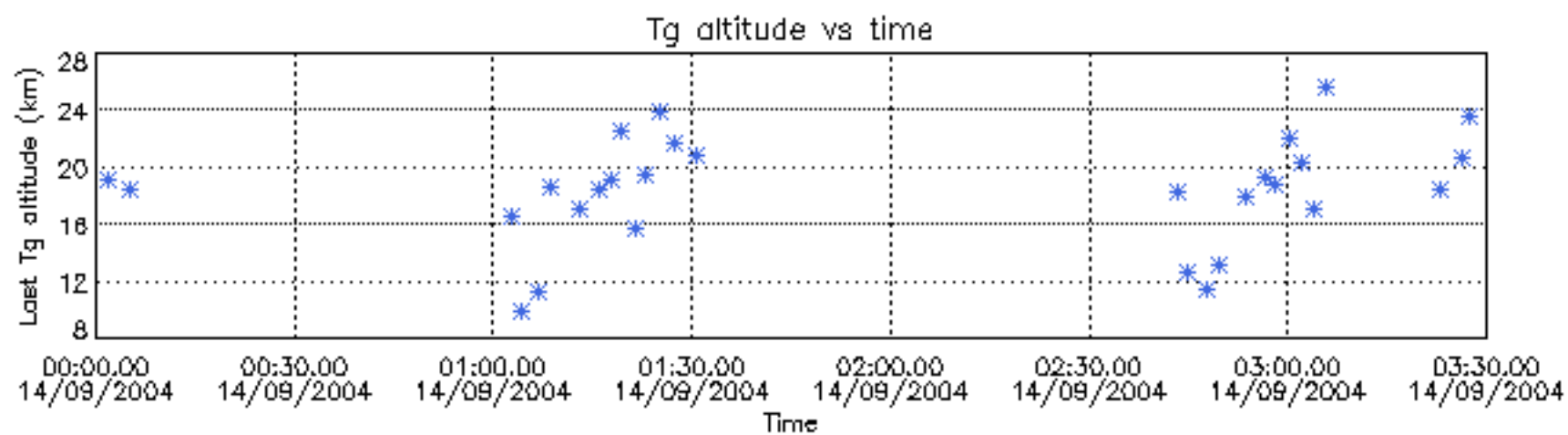
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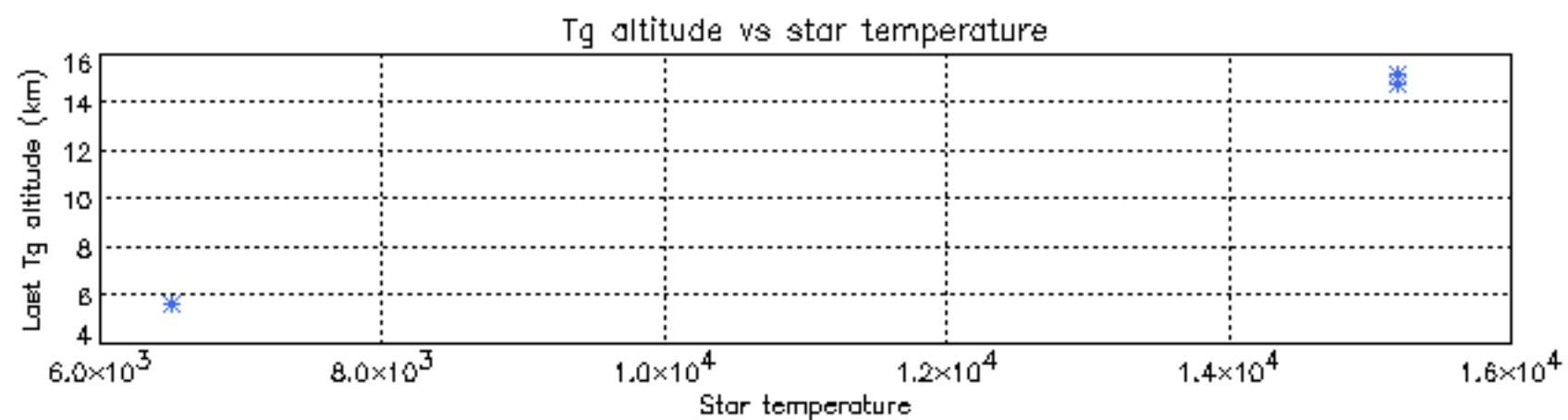
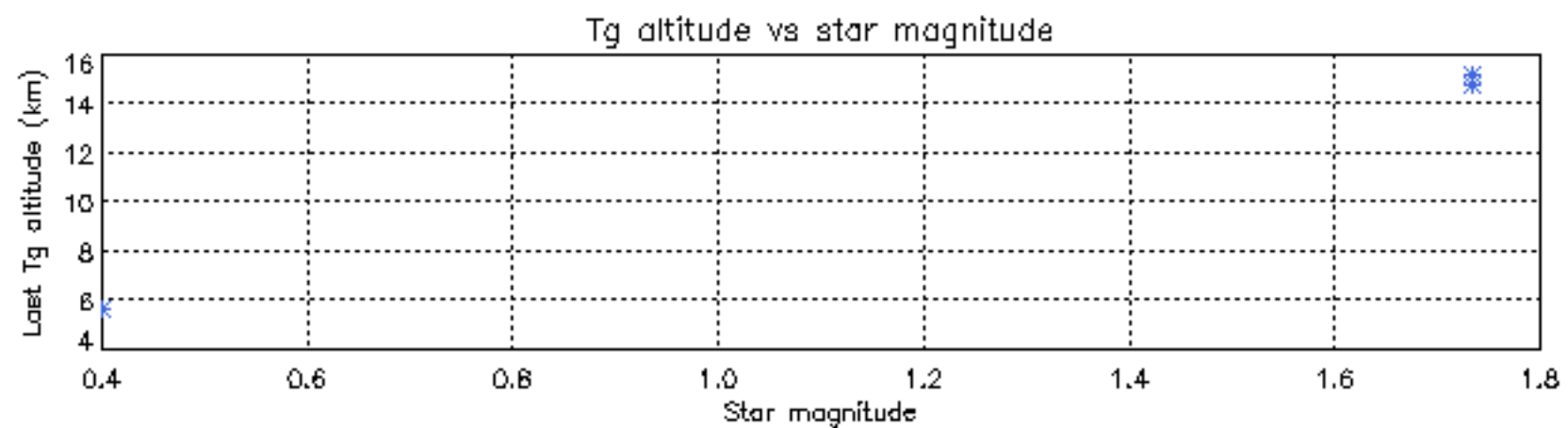
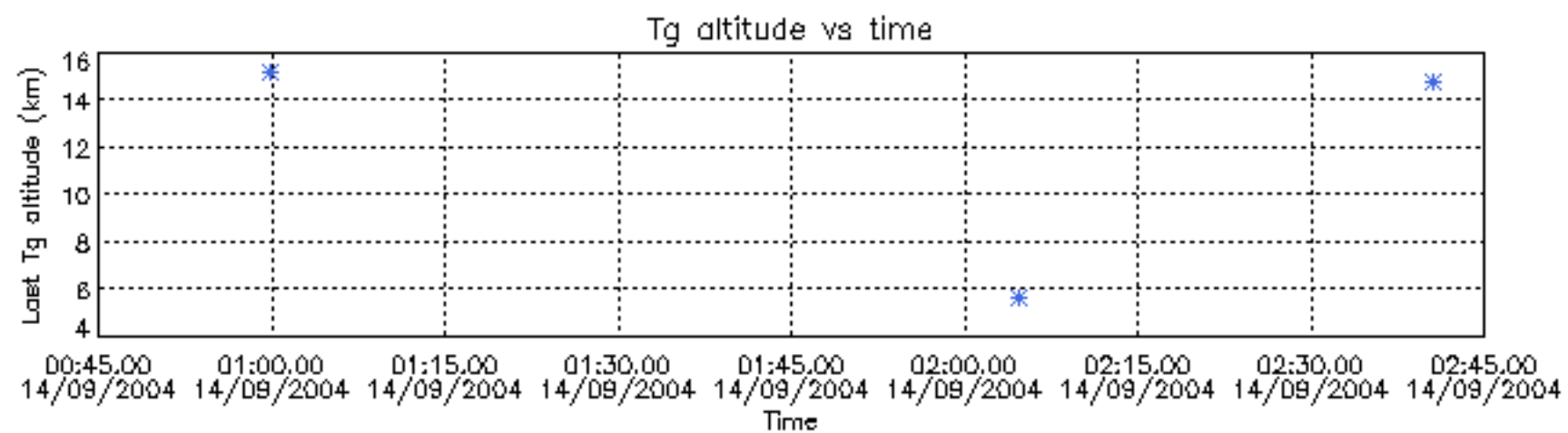
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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7; 547.2; 06-SEP-2004 23:29:17; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;13182
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```

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/data4\_2/GOMOS/from\_DDS/GOM\_NL\_0PNPDE20040910\_052922\_000059672030\_00148\_13228\_0646.N1

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```



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```

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6; 15.4; 15-SEP-2004 01:49:52; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;13298
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32; 4731.3; 17-SEP-2004 23:53:00; Dark ; 134.5; 28; 12Bet Tau ; 1.65; 15200;occ; 269; 0;13339
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31; 1117.6; 20-SEP-2004 11:14:19; Dark ; 42.0; 63; Bet Gru ; 2.15; 2800;occ; 84; 0;13375
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32; 629.9; 03-SEP-2004 18:23:08; Dark ; 55.5; 9; Alp Eri ; 0.45; 24000;occ; 111; 0;13136
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32; 540.2; 03-SEP-2004 20:02:14; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;13137
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14; 228.3; 27-SEP-2004 03:56:59; Dark ; 61.5; 108; Alp Col ; 2.65; 15200;occ; 123; 0;13471
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