

# GOMOS Daily Report 20-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	22SEP2004 05:01:32
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (20SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (21SEP2004 00:00:00)

Store outputs flag	0
Nb of level 1b prods	50
Nb of prods with errors	1

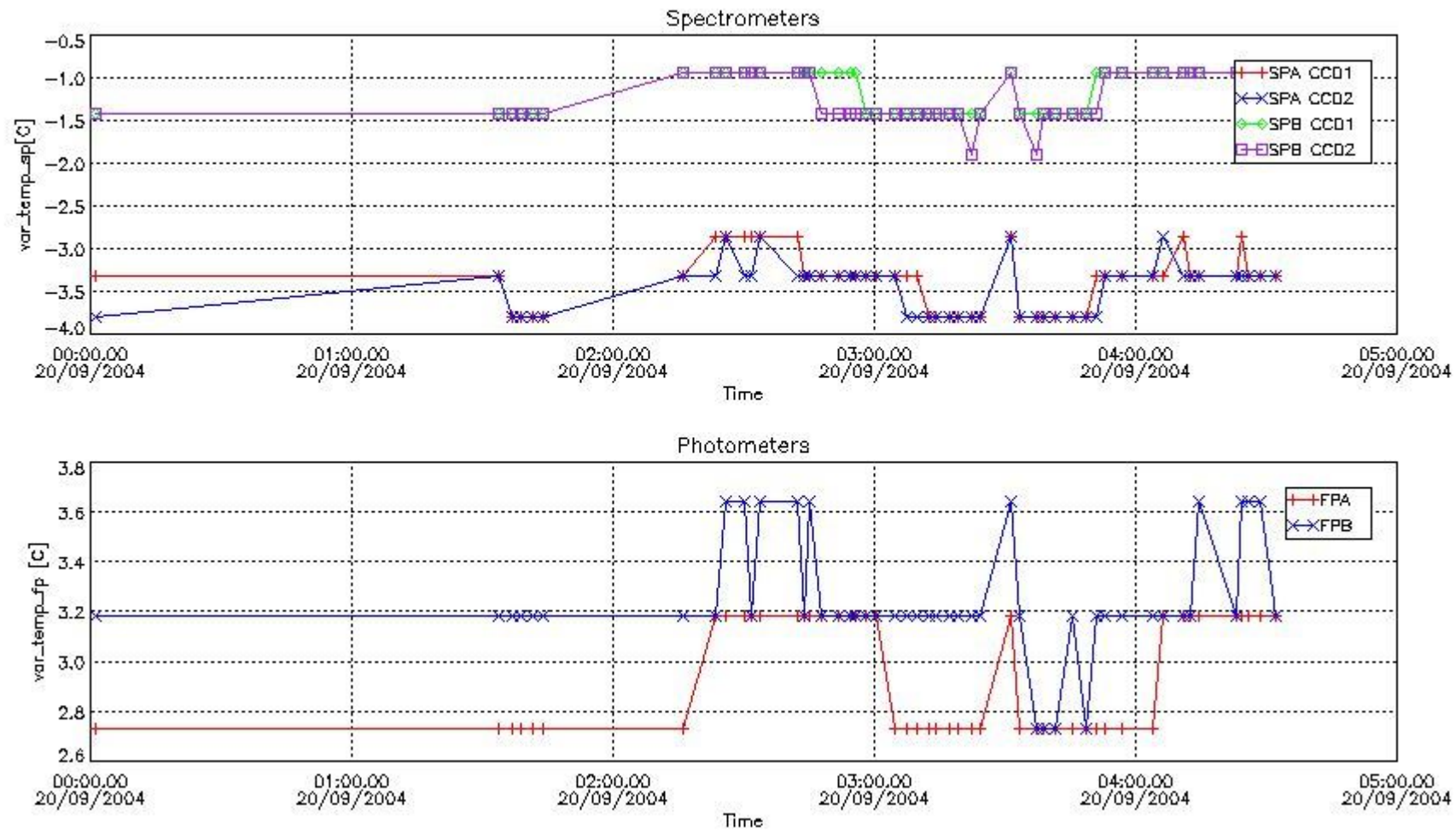
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040920_000104_000000392030_00288_13368_0021.N1	20-SEP-2004 00:01:04	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	13368	No
GOM_TRA_1PNPDE20040920_013341_000000482030_00289_13369_0018.N1	20-SEP-2004 01:33:41	Bright	47.500	58	21Alp And	2.0730	11000.	95	13369	No
GOM_TRA_1PNPDE20040920_013640_000000382030_00289_13369_0019.N1	20-SEP-2004 01:36:40	Bright	37.500	66	37Gam Cyg	2.2080	5900.0	75	13369	No
GOM_TRA_1PNPDE20040920_013840_000000542030_00289_13369_0020.N1	20-SEP-2004 01:38:40	Bright	53.500	53	43Bet And	2.0480	3300.0	107	13369	No
GOM_TRA_1PNPDE20040920_014140_000000392030_00289_13369_0021.N1	20-SEP-2004 01:41:40	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	13369	No
GOM_TRA_1PNPDE20040920_014345_000000442030_00289_13369_0022.N1	20-SEP-2004 01:43:45	Bright	43.500	76	27Gam Cas	2.3000	30000.	87	13369	No
GOM_TRA_1PNPDE20040920_021604_000000602030_00289_13369_0000.N1	20-SEP-2004 02:16:04	Twilight	60.000	8	10Alp CMi	0.40000	6500.0	120	13369	No
GOM_TRA_1PNPDE20040920_022326_000000422030_00289_13369_0001.N1	20-SEP-2004 02:23:26	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	13369	No
GOM_TRA_1PNPDE20040920_022544_000000682030_00289_13369_0002.N1	20-SEP-2004 02:25:44	Dark	67.500	1	9Alp CMa	-1.4400	11000.	135	13369	No
GOM_TRA_1PNPDE20040920_023018_000000392030_00289_13369_0003.N1	20-SEP-2004 02:30:18	Dark	38.500	46	Del Vel	1.9540	10600.	77	13369	No
GOM_TRA_1PNPDE20040920_023151_000000452030_00289_13369_0004.N1	20-SEP-2004 02:31:51	Dark	45.000	41	Eps Car	1.8600	4100.0	90	13369	No
GOM_TRA_1PNPDE20040920_023351_000000892030_00290_13370_0005.N1	20-SEP-2004 02:33:51	Dark	88.500	101	11Alp Lep	2.5820	7000.0	177	13370	No
GOM_TRA_1PNPDE20040920_024222_000000392030_00290_13370_0006.N1	20-SEP-2004 02:42:22	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	13370	No
GOM_TRA_1PNPDE20040920_024347_000000432030_00290_13370_0007.N1	20-SEP-2004 02:43:47	Dark	43.000	143	Alp Hyi	2.8570	7200.0	86	13370	No
GOM_TRA_1PNPDE20040920_024513_000000462030_00290_13370_0008.N1	20-SEP-2004 02:45:13	Dark	45.500	9	Alp Eri	0.45300	24000.	91	13370	No
GOM_TRA_1PNPDE20040920_024753_000000442030_00290_13370_0009.N1	20-SEP-2004 02:47:53	Dark	43.500	148	Alp Tuc	2.8780	4100.0	87	13370	No
GOM_TRA_1PNPDE20040920_025138_000000412030_00290_13370_0010.N1	20-SEP-2004 02:51:38	Twilight	40.500	31	Alp Gru	1.7340	15200.	81	13370	No
GOM_TRA_1PNPDE20040920_025425_000000392030_00290_13370_0011.N1	20-SEP-2004 02:54:25	Bright	38.500	172	Gam Gru	3.0030	13100.	77	13370	No
GOM_TRA_1PNPDE20040920_025550_000000472030_00290_13370_0012.N1	20-SEP-2004 02:55:50	Bright	47.000	18	24Alp PsA	1.1660	9700.0	94	13370	No
GOM_TRA_1PNPDE20040920_025813_000000622030_00290_13370_0013.N1	20-SEP-2004 02:58:13	Bright	61.500	52	16Bet Cet	2.0370	4500.0	123	13370	No
GOM_TRA_1PNPDE20040920_030023_000000432030_00290_13370_0014.N1	20-SEP-2004 03:00:23	Bright	42.500	142	49Del Cap	2.8500	8900.0	85	13370	No
GOM_TRA_1PNPDE20040920_030434_000000402030_00290_13370_0015.N1	20-SEP-2004 03:04:34	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	13370	No
GOM_TRA_1PNPDE20040920_030735_000000412030_00290_13370_0016.N1	20-SEP-2004 03:07:35	Bright	41.000	61	8Eps Peg	2.1000	3900.0	82	13370	No
GOM_TRA_1PNPDE20040920_030955_000000472030_00290_13370_0017.N1	20-SEP-2004 03:09:55	Bright	46.500	140	88Gam Peg	2.8340	26000.	93	13370	No
GOM_TRA_1PNPDE20040920_031238_000000422030_00290_13370_0018.N1	20-SEP-2004 03:12:38	Bright	42.000	93	53Bet Peg	2.5200	3100.0	84	13370	No
GOM_TRA_1PNPDE20040920_031417_000000472030_00290_13370_0019.N1	20-SEP-2004 03:14:17	Bright	47.000	58	21Alp And	2.0730	11000.	94	13370	No
GOM_TRA_1PNPDE20040920_031716_000000392030_00290_13370_0020.N1	20-SEP-2004 03:17:16	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	13370	No
GOM_TRA_1PNPDE20040920_031915_000000592030_00290_13370_0021.N1	20-SEP-2004 03:19:15	Bright	58.500	53	43Bet And	2.0480	3300.0	117	13370	No
GOM_TRA_1PNPDE20040920_032216_000000372030_00290_13370_0022.N1	20-SEP-2004 03:22:16	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	13370	No
GOM_TRA_1PNPDE20040920_032421_000000432030_00290_13370_0023.N1	20-SEP-2004 03:24:21	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	13370	No
GOM_TRA_1PNPDE20040920_033132_000000682030_00290_13370_0000.N1	20-SEP-2004 03:31:32	Bright	68.000	35	33Alp Per	1.7950	6250.0	136	13370	Yes
GOM_TRA_1PNPDE20040920_033324_000000712030_00290_13370_0001.N1	20-SEP-2004 03:33:24	Bright	70.500	175	39Del Per	3.0100	19400.	141	13370	No
GOM_TRA_1PNPDE20040920_033723_000000392030_00290_13370_0002.N1	20-SEP-2004 03:37:23	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	13370	No
GOM_TRA_1PNPDE20040920_033850_000000382030_00290_13370_0003.N1	20-SEP-2004 03:38:50	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	13370	No
GOM_TRA_1PNPDE20040920_034144_000000602030_00290_13370_0004.N1	20-SEP-2004 03:41:44	Bright	59.500	42	34Bet Aur	1.9000	10200.	119	13370	No
GOM_TRA_1PNPDE20040920_034528_000000672030_00290_13370_0005.N1	20-SEP-2004 03:45:28	Bright	67.000	107	37The Aur	2.6490	11000.	134	13370	No
GOM_TRA_1PNPDE20040920_034846_000000502030_00290_13370_0006.N1	20-SEP-2004 03:48:46	Twilight	50.000	17	78Bet Gem	1.1610	4500.0	100	13370	No
GOM_TRA_1PNPDE20040920_035102_000000742030_00290_13370_0007.N1	20-SEP-2004 03:51:02	Twilight	73.500	170	27Eps Gem	3.0000	9700.0	147	13370	No
GOM_TRA_1PNPDE20040920_035307_000000852030_00290_13370_0008.N1	20-SEP-2004 03:53:07	Twilight	84.500	151	13Mu Gem	2.8900	3000.0	169	13370	No
GOM_TRA_1PNPDE20040920_035640_000000642030_00290_13370_0009.N1	20-SEP-2004 03:56:40	Twilight	63.500	8	10Alp CMi	0.40000	6500.0	127	13370	No
GOM_TRA_1PNPDE20040920_040402_000000452030_00290_13370_0010.N1	20-SEP-2004 04:04:02	Dark	45.000	132	15Rho Pup	2.8030	6900.0	90	13370	No
GOM_TRA_1PNPDE20040920_040621_000000702030_00290_13370_0011.N1	20-SEP-2004 04:06:21	Dark	69.500	1	9Alp CMa	-1.4400	11000.	139	13370	No
GOM_TRA_1PNPDE20040920_041053_000000452030_00290_13370_0012.N1	20-SEP-2004 04:10:53	Dark	44.500	46	Del Vel	1.9540	10600.	89	13370	No
GOM_TRA_1PNPDE20040920_041227_000000512030_00290_13370_0013.N1	20-SEP-2004 04:12:27	Dark	51.000	41	Eps Car	1.8600	4100.0	102	13370	No
GOM_TRA_1PNPDE20040920_041430_000000902030_00291_13371_0014.N1	20-SEP-2004 04:14:30	Dark	89.500	101	11Alp Lep	2.5820	7000.0	179	13371	No
GOM_TRA_1PNPDE20040920_042258_000000402030_00291_13371_0015.N1	20-SEP-2004 04:22:58	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	13371	No
GOM_TRA_1PNPDE20040920_042424_000000402030_00291_13371_0016.N1	20-SEP-2004 04:24:24	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	13371	No
GOM_TRA_1PNPDE20040920_042550_000000492030_00291_13371_0017.N1	20-SEP-2004 04:25:50	Dark	48.500	9	Alp Eri	0.45300	24000.	97	13371	No
GOM_TRA_1PNPDE20040920_042828_000000402030_00291_13371_0018.N1	20-SEP-2004 04:28:28	Dark	39.500	148	Alp Tuc	2.8780	4100.0	79	13371	No

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



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

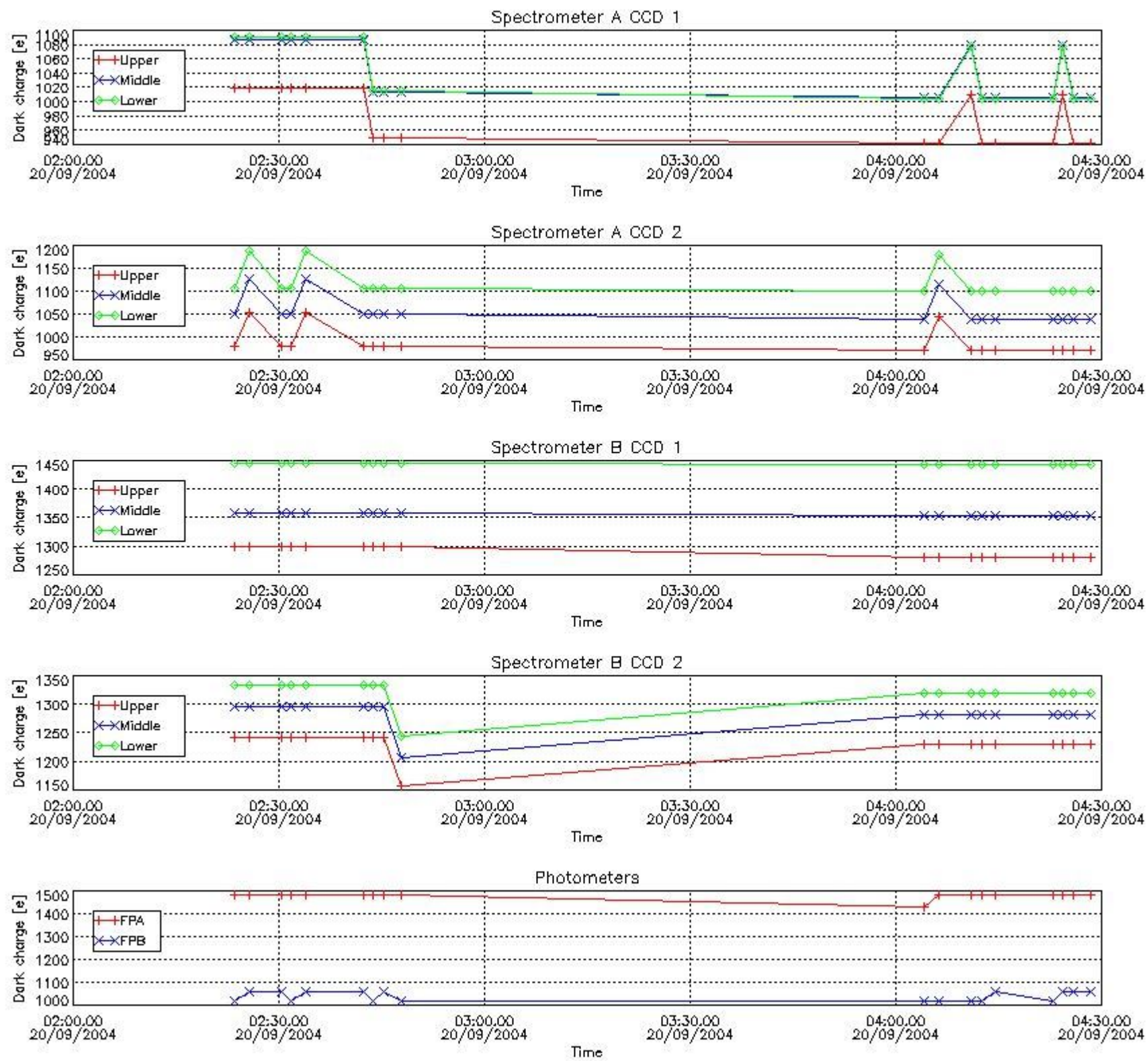
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





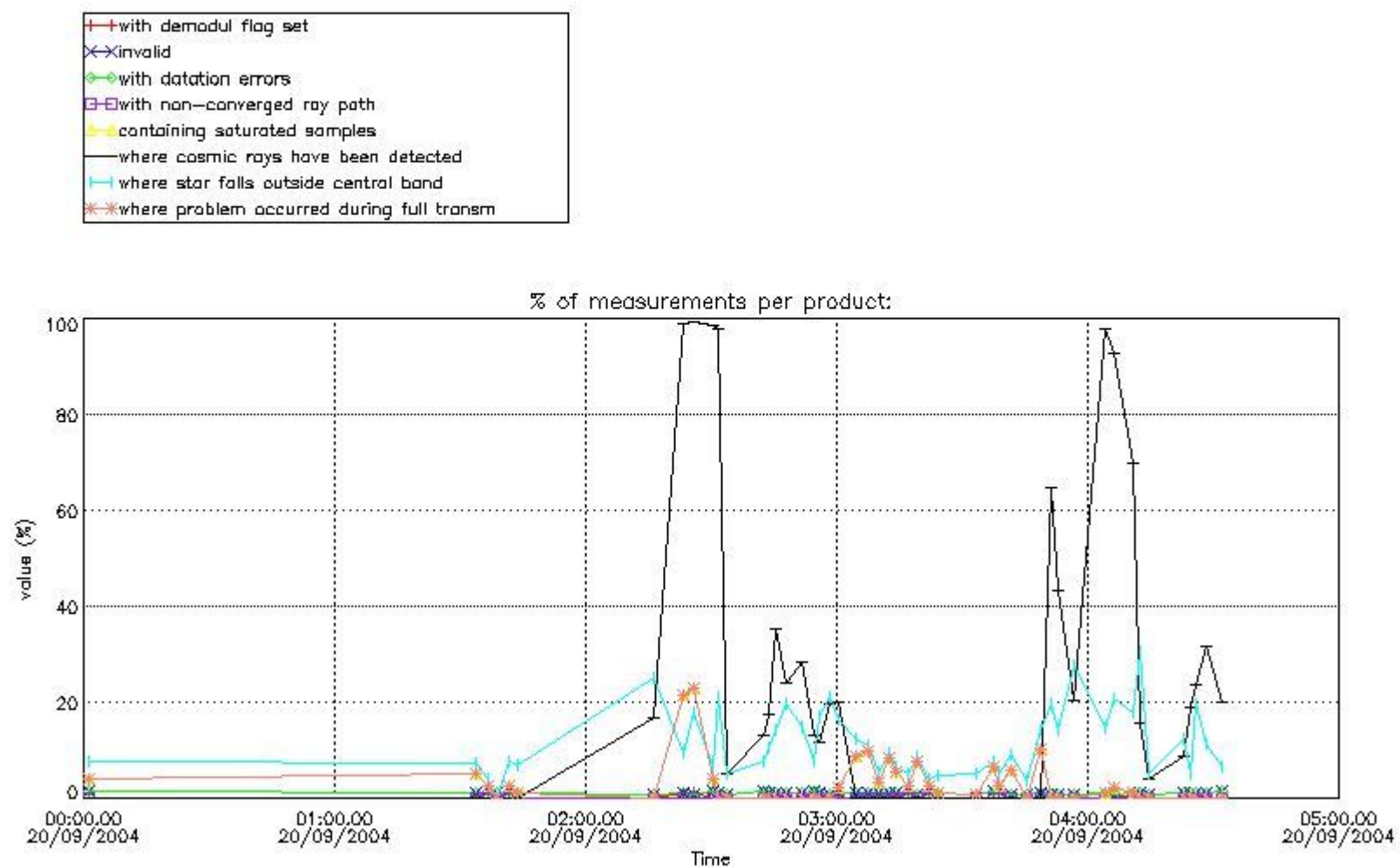
## 5. Demodulation flag and quality information monitoring

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.

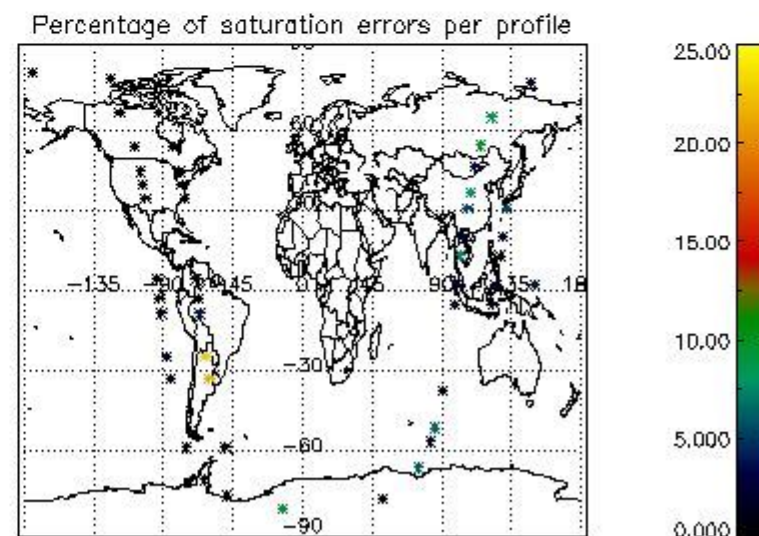
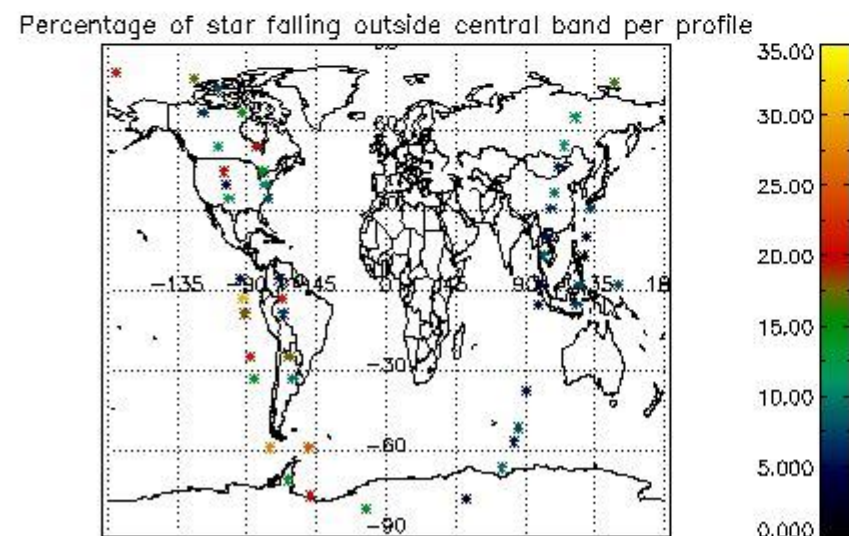
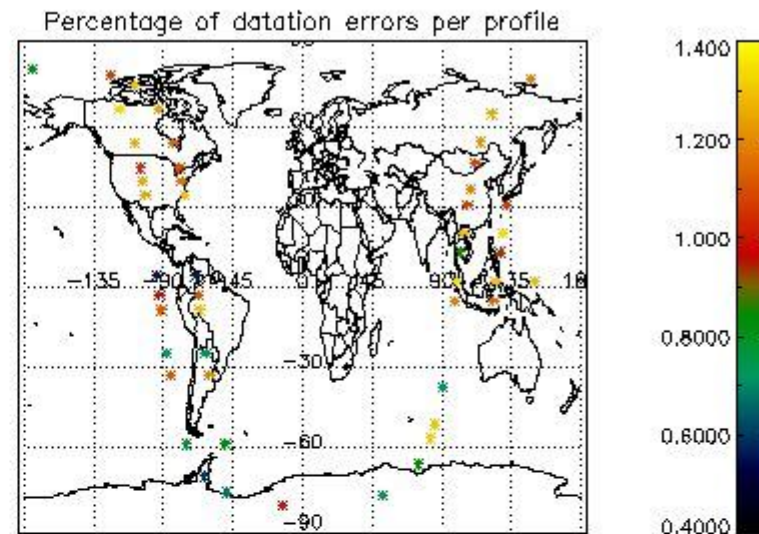
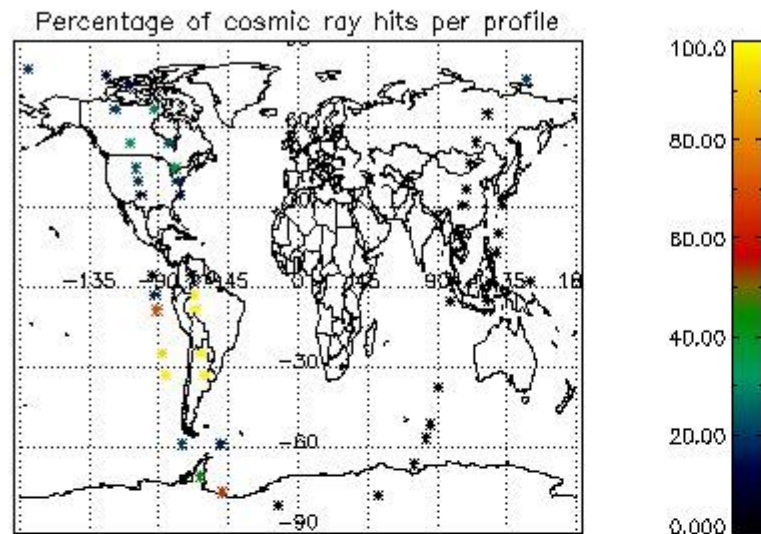
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.4082 %
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)

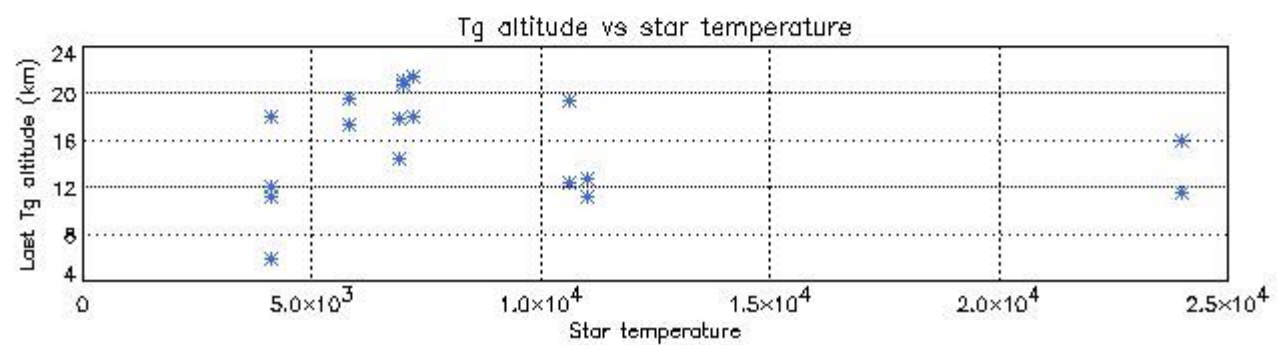
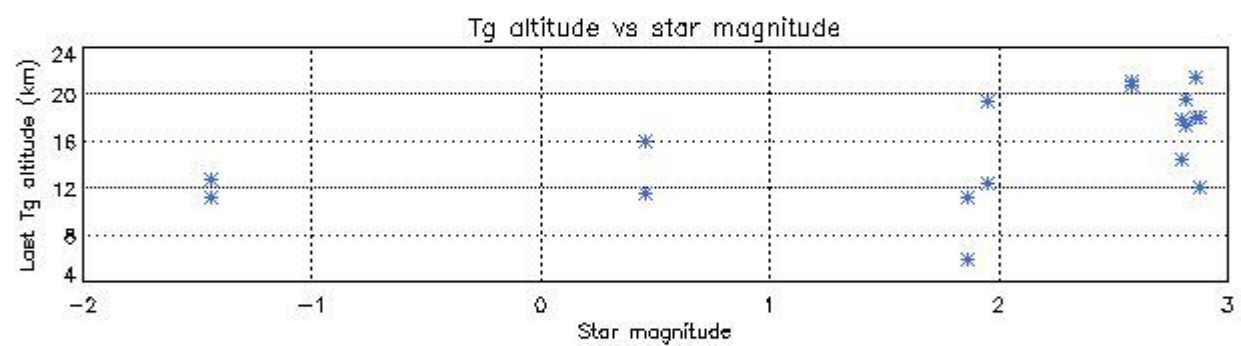
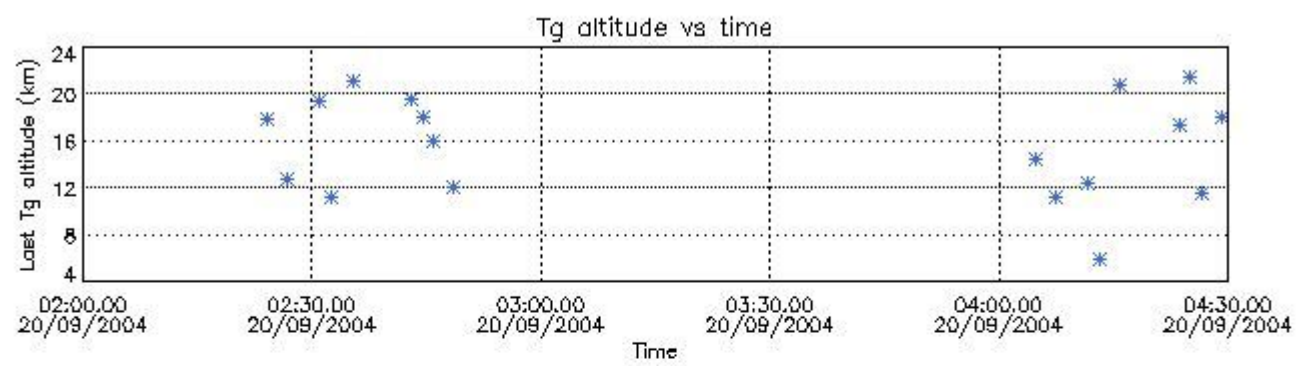
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.591	19.373	13.410
St. deviation:	4.3606	3.6346	4.2711
Maximum:	21.380	25.696	20.189
Minimum:	5.9040	10.418	7.4901
Number of data:	18.000	24.000	7.0000

### 6.2 Plot for DARK limb products

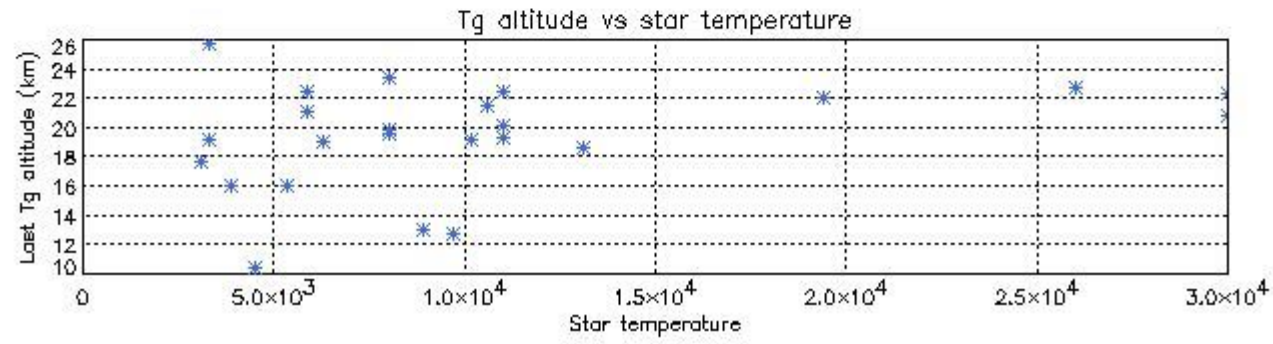
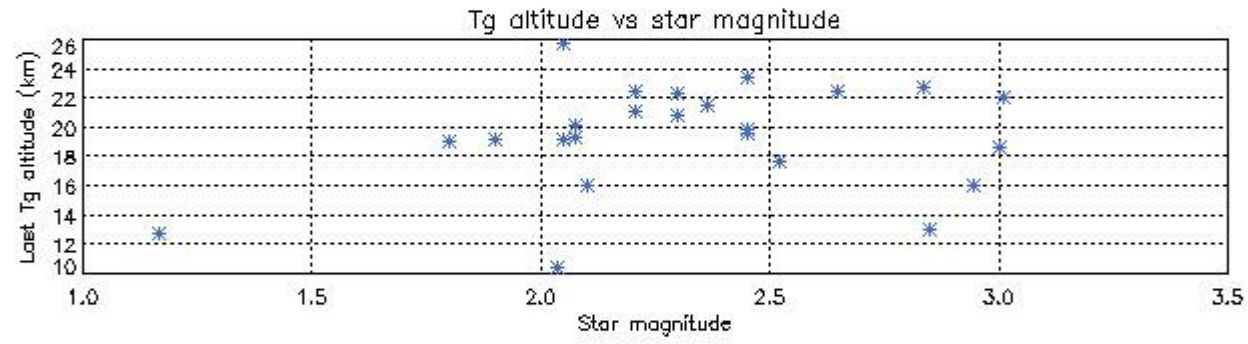
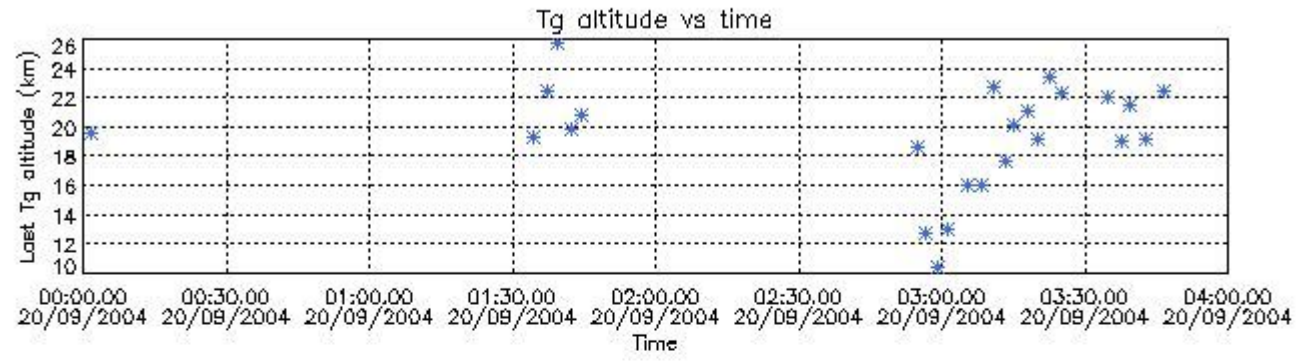


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

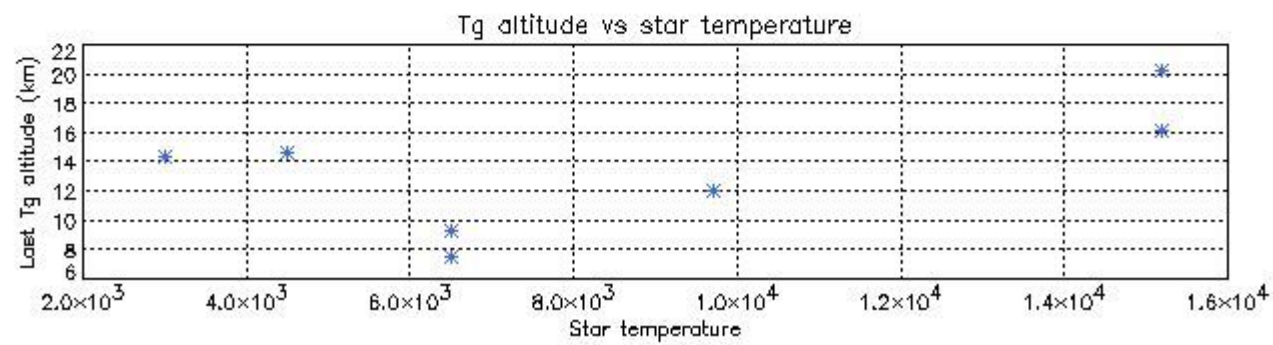
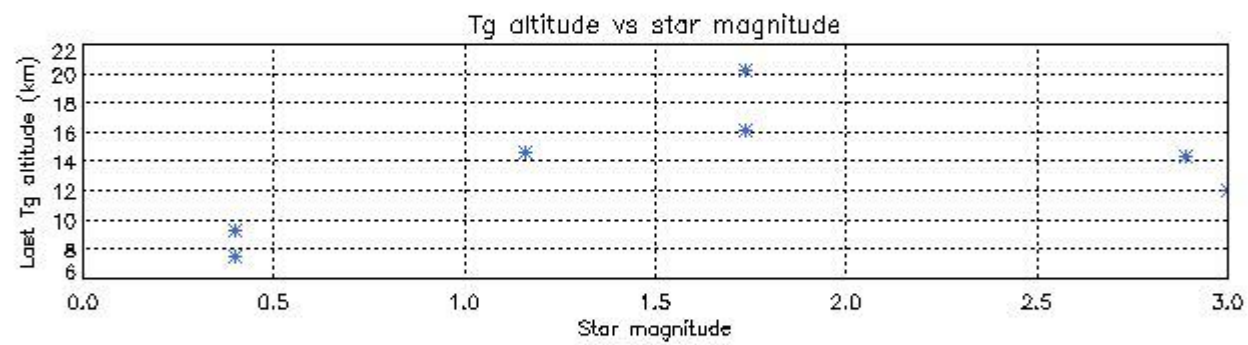
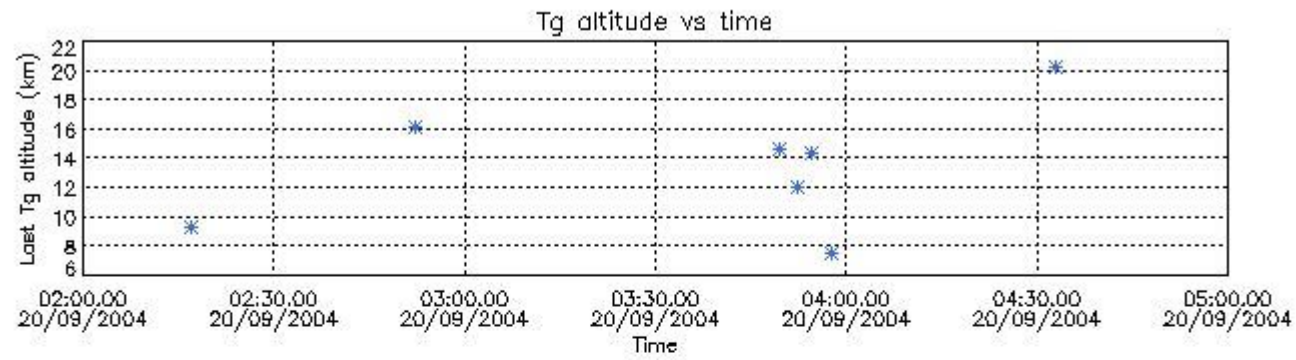
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



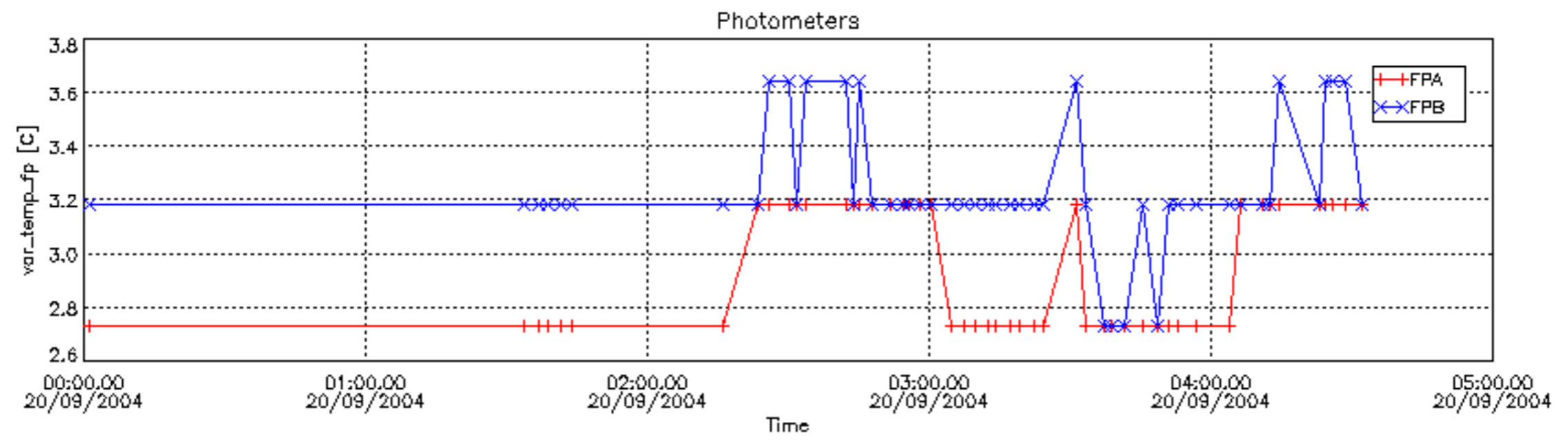
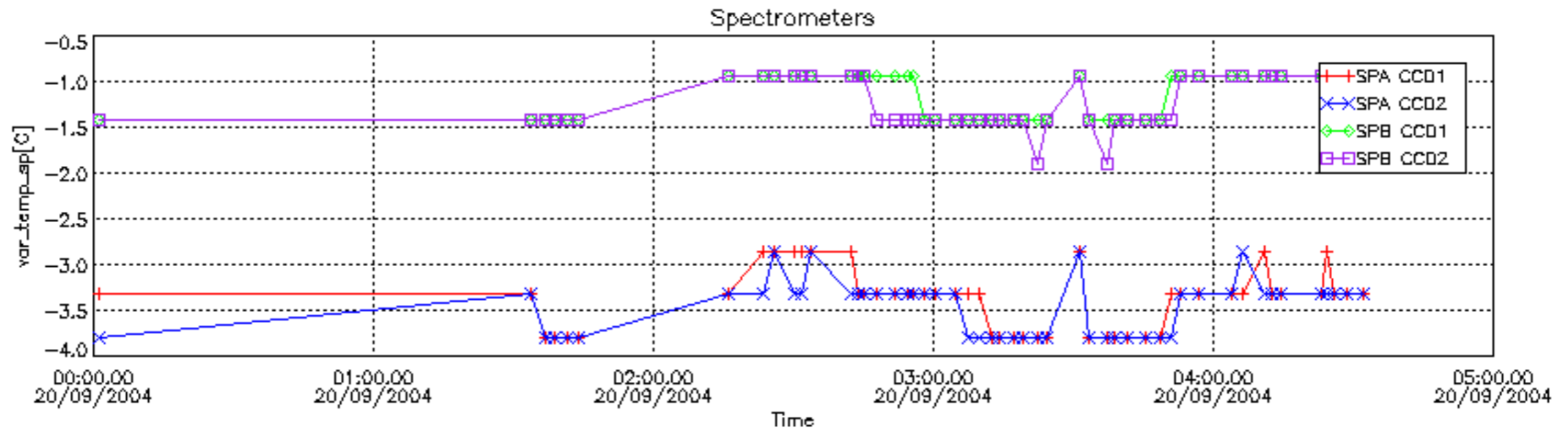
Tangent altitude at which the star is lost

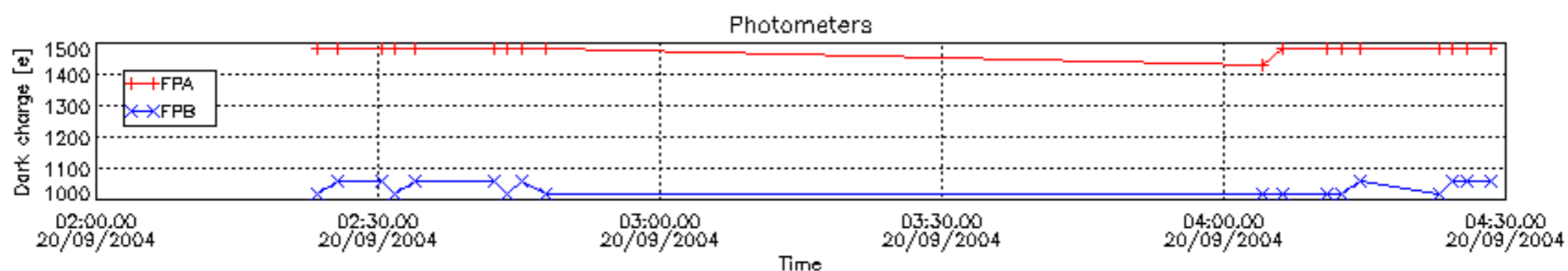
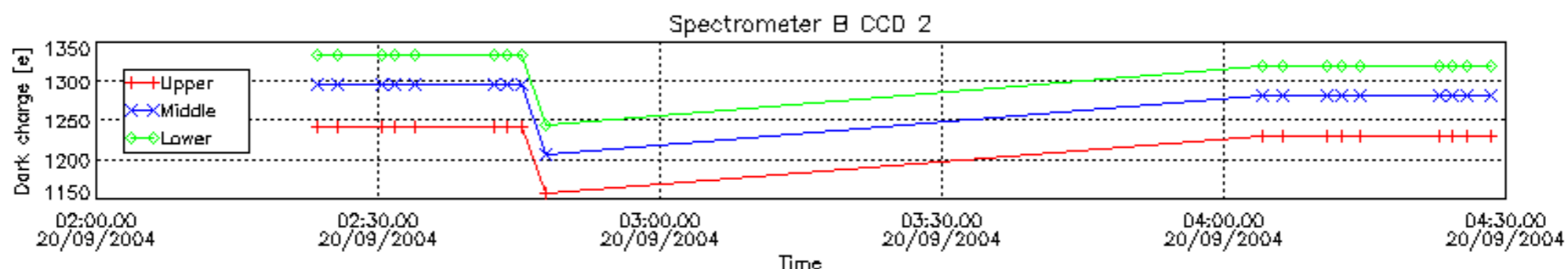
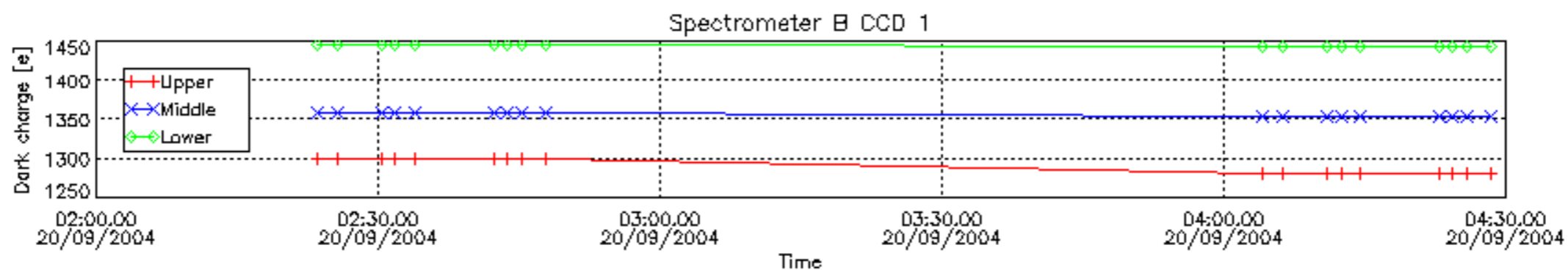
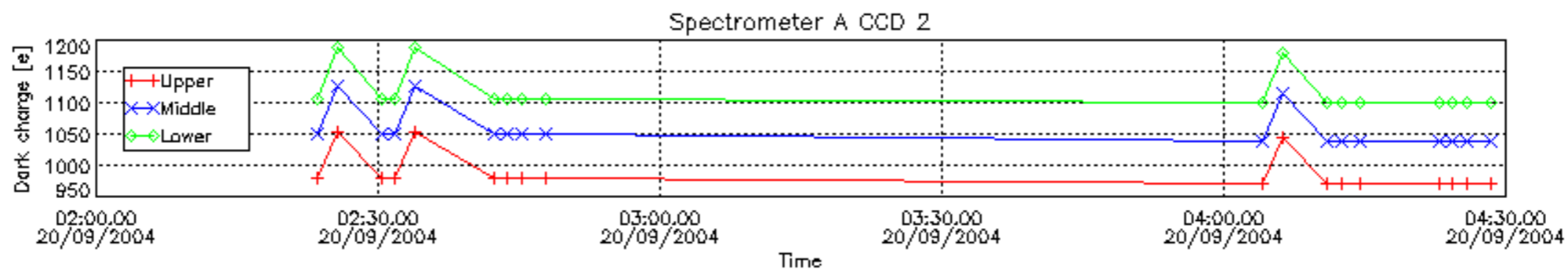
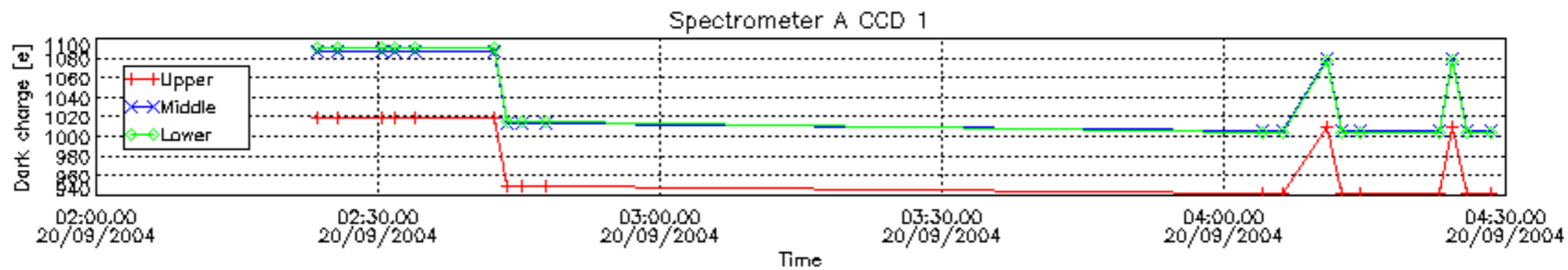


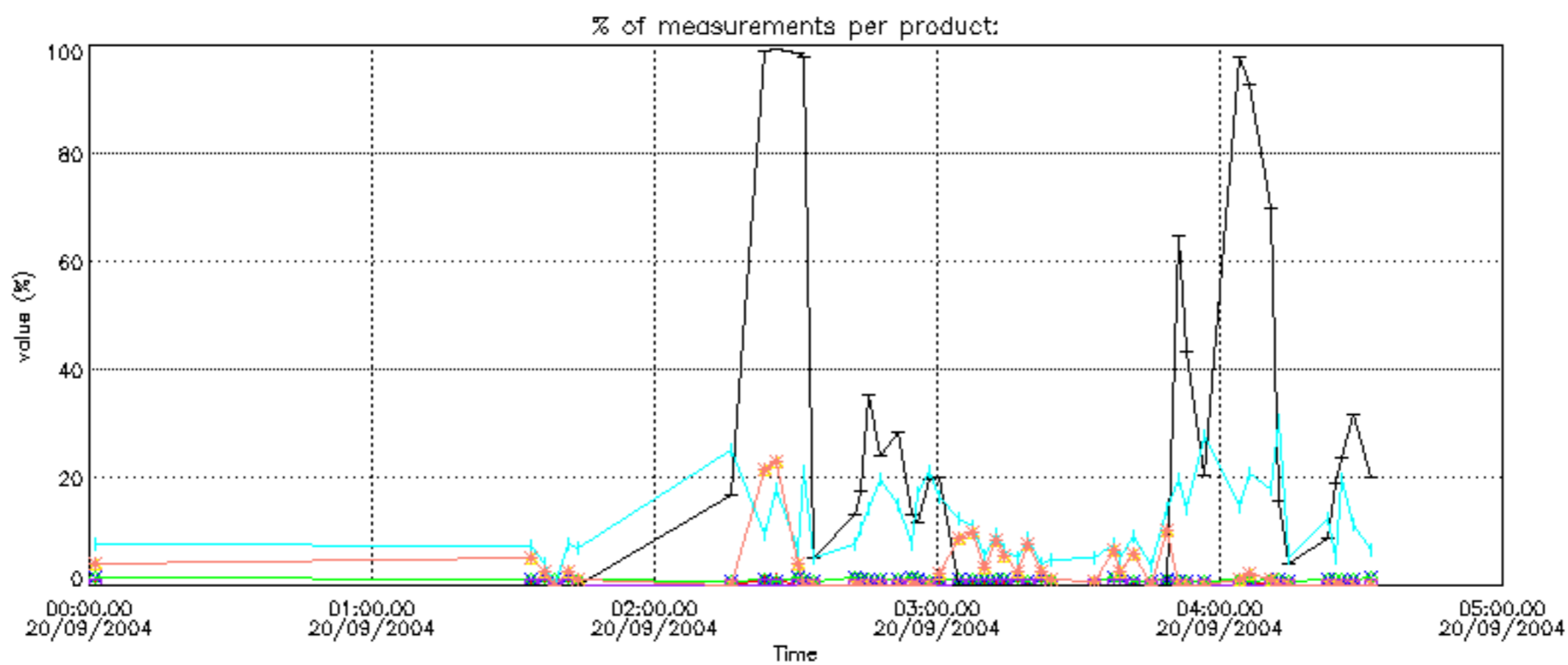
### 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1461.2	1446.9	1461.4	1447.9
St. deviation:	5.4130	6.2990	7.3553	8.4165
Maximum:	1560.0	1573.0	1535.0	1506.0
Minimum:	1442.0	1430.0	1428.0	1412.0
Number of data:	23750.	23750.	29150.	29150.

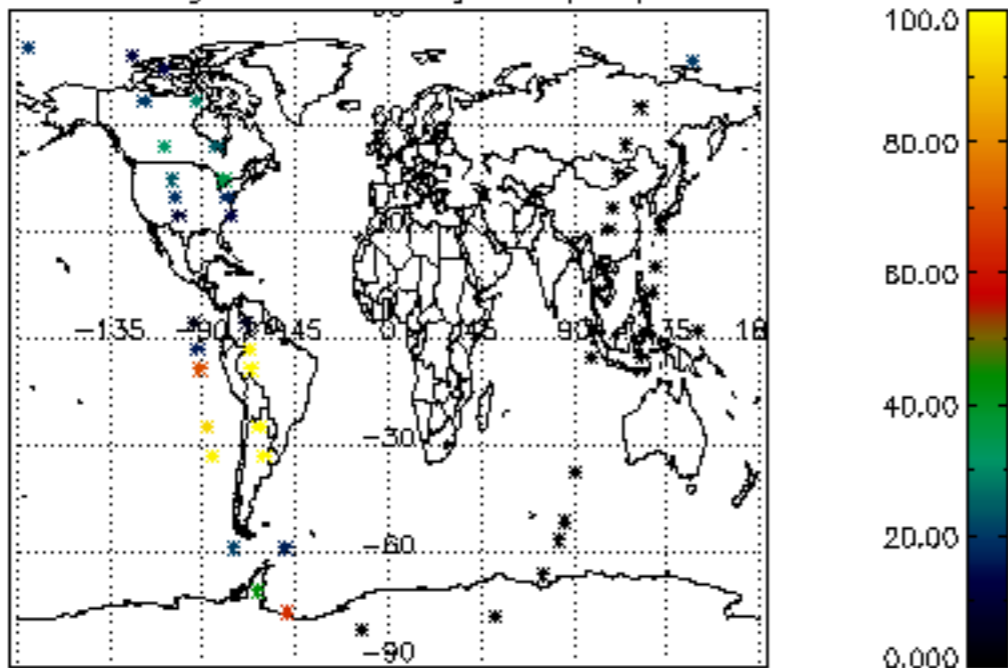




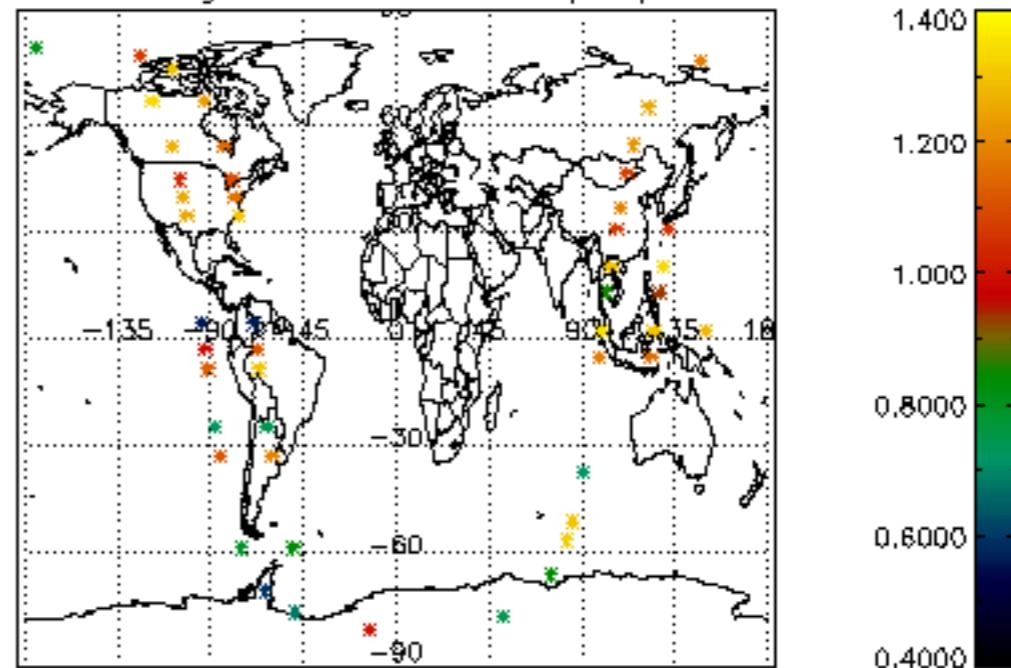




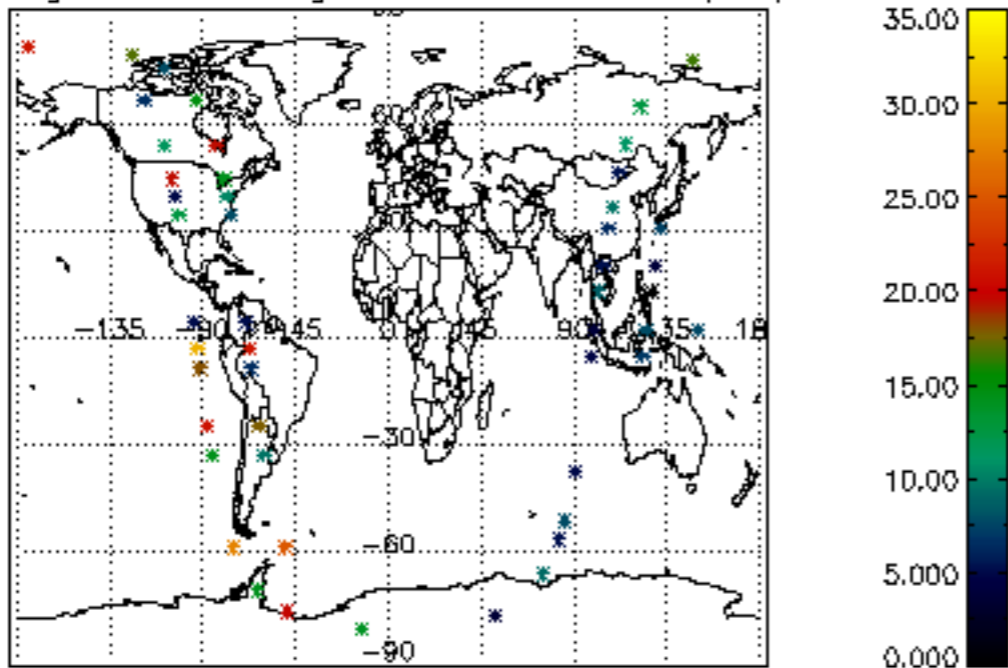
Percentage of cosmic ray hits per profile



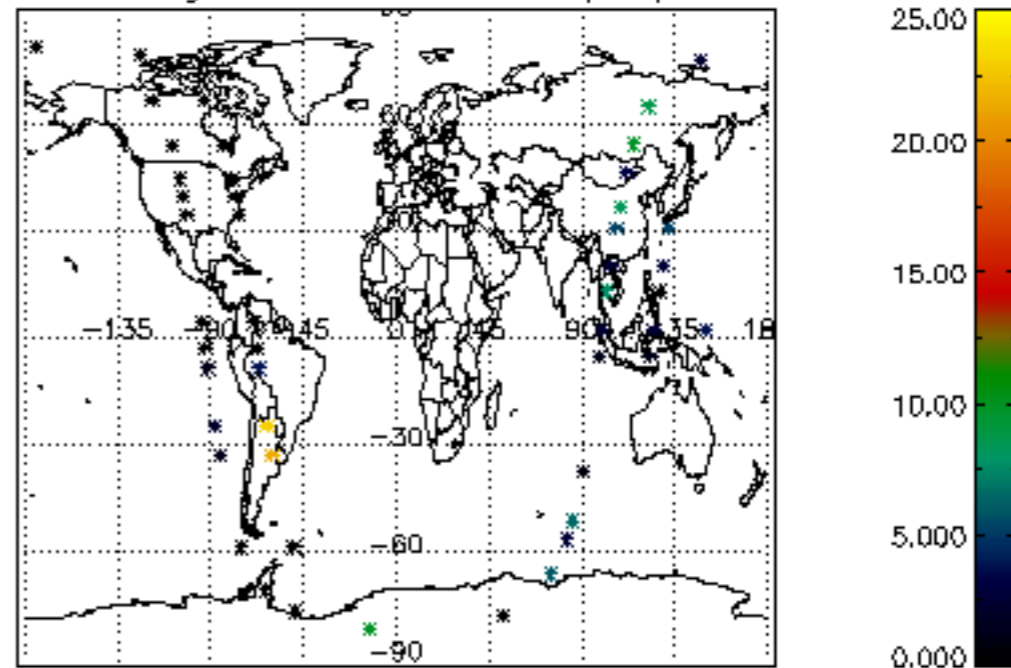
Percentage of datation errors per profile



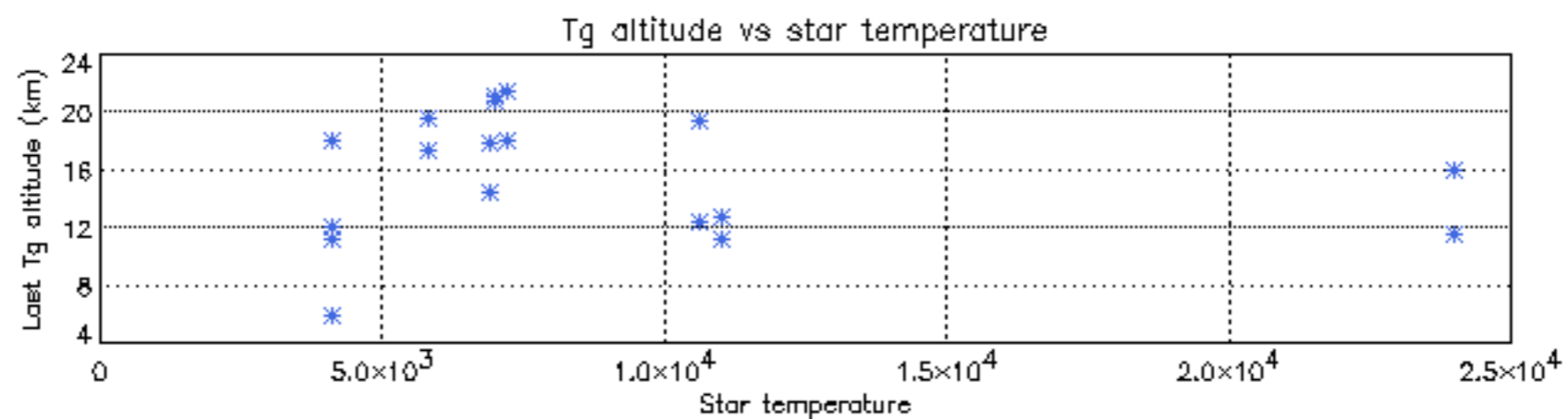
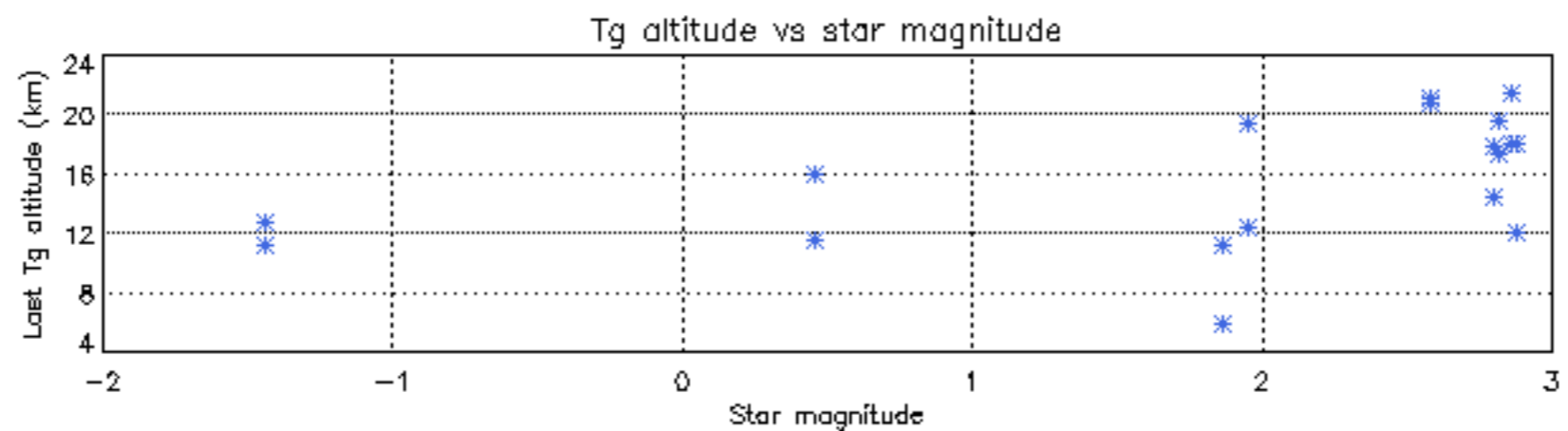
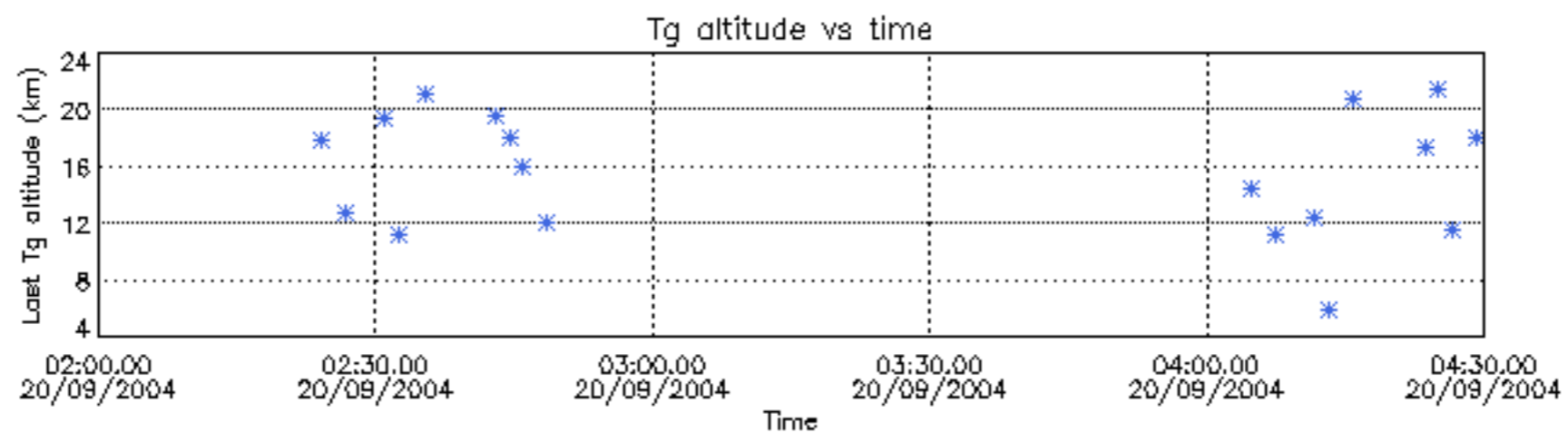
Percentage of star falling outside central band per profile



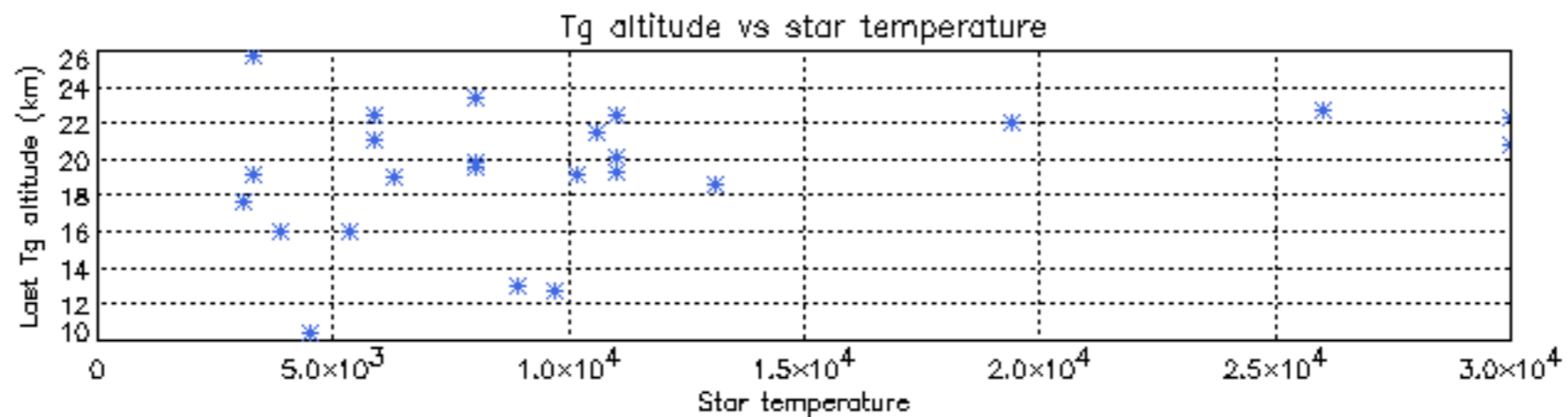
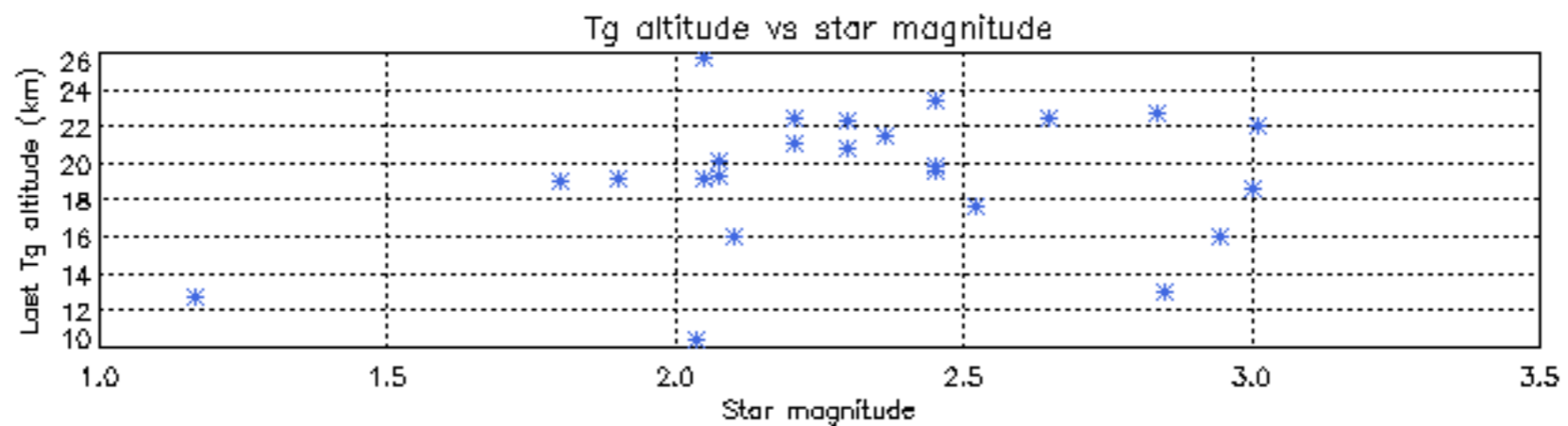
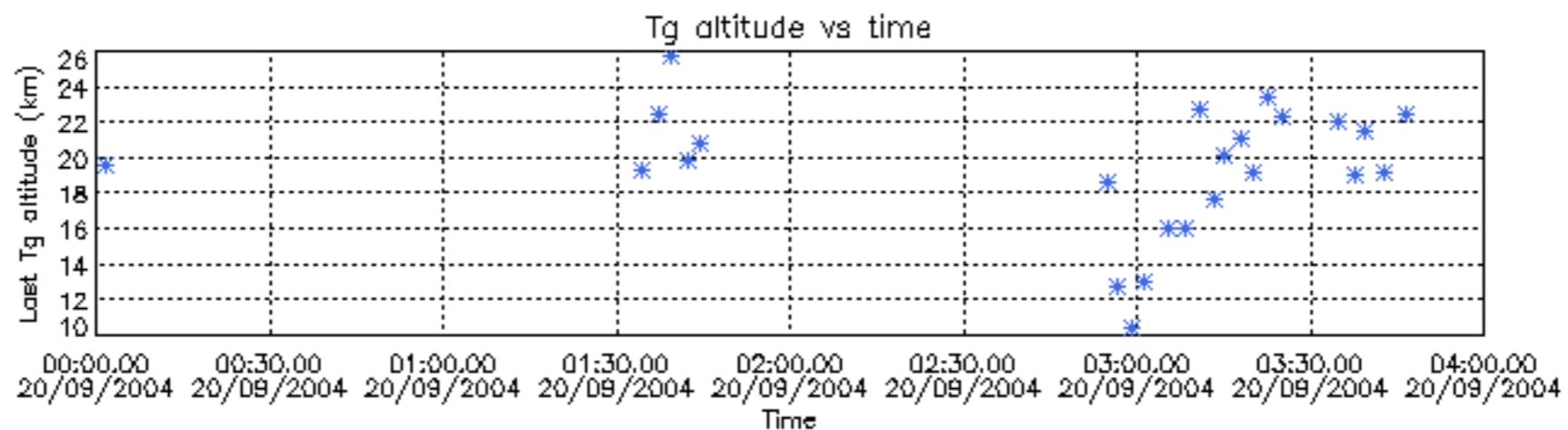
Percentage of saturation errors per profile



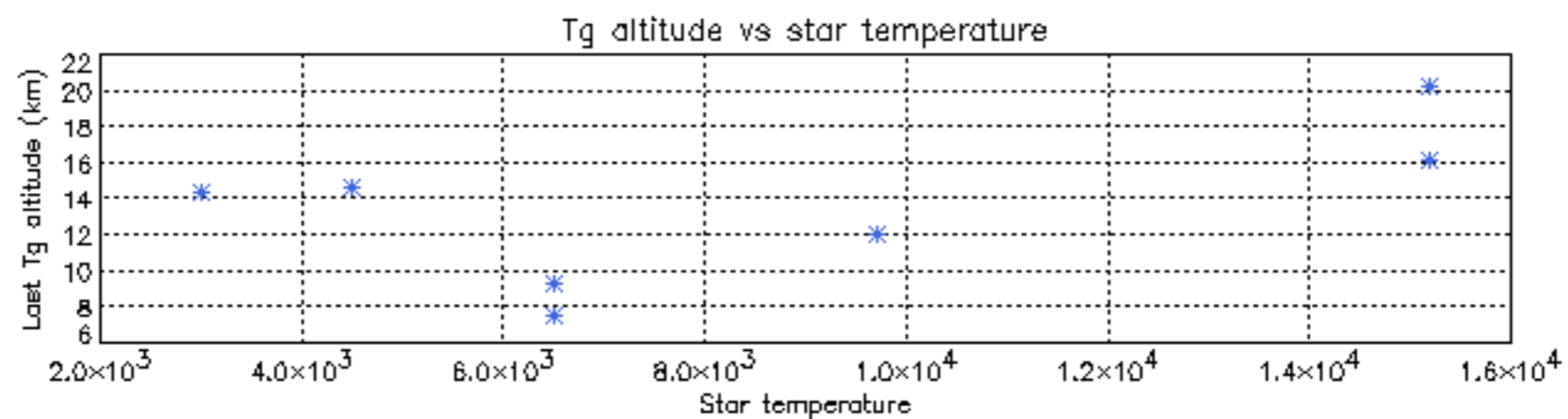
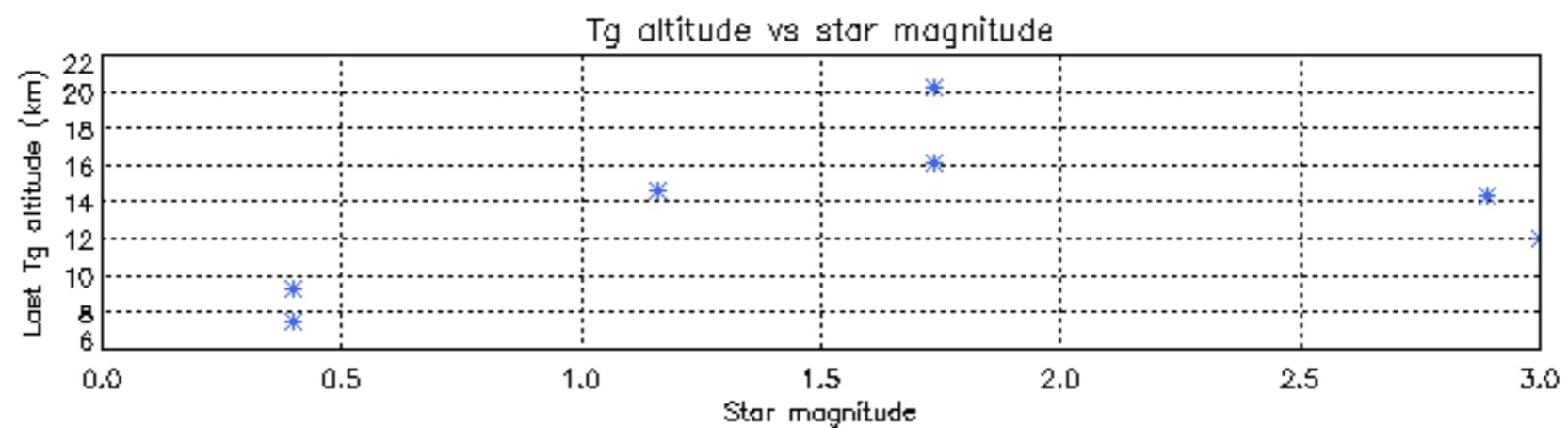
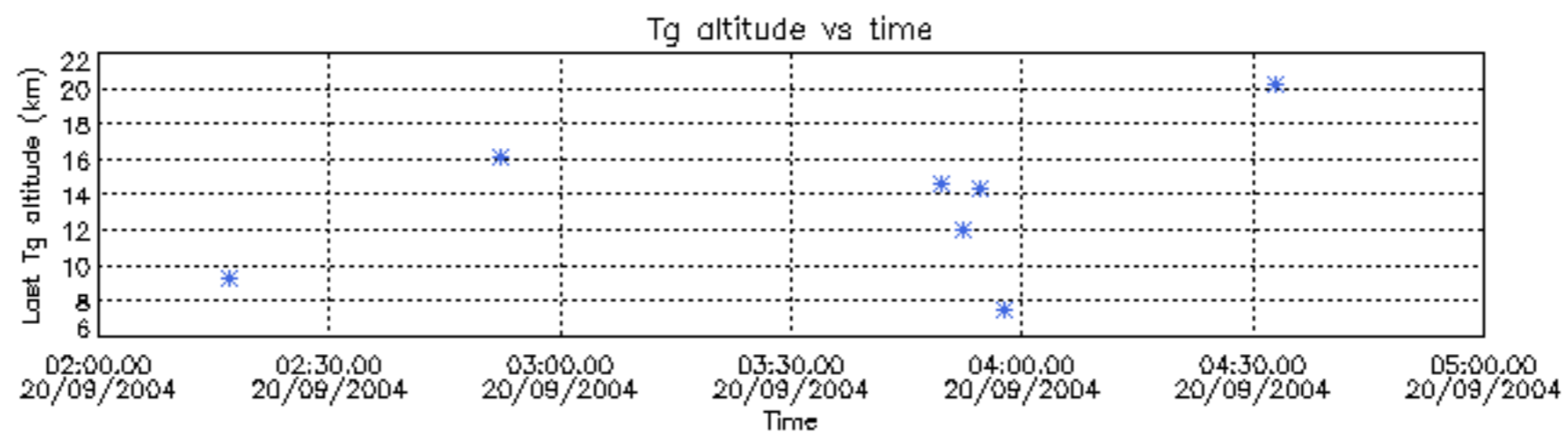
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Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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28;	4377.9;	05-SEP-2004	23:24:09;	Bright;		53.5;	107;	37The Aur	;	2.65;	11000;occ;	107;	0;	13167
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21;	3096.6;	06-SEP-2004	00:43:24;	Bright;		40.5;	74;	11Bet Cas	;	2.27;	6600;occ;	81;	0;	13168
22;	3217.8;	06-SEP-2004	00:45:25;	Bright;		46.0;	76;	27Gam Cas	;	2.30;	30000;occ;	92;	0;	13168
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25;	3836.8;	06-SEP-2004	00:55:44;	Bright;		39.0;	36;	50Alp UMa	;	1.80;	6300;occ;	78;	0;	13168
26;	3920.2;	06-SEP-2004	00:57:08;	Bright;		53.0;	82;	48Bet UMa	;	2.37;	10600;occ;	106;	0;	13168
27;	4132.3;	06-SEP-2004	01:00:40;	Bright;		63.0;	6;	13Alp Aur	;	0.08;	3400;occ;	126;	0;	13168
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12; 1363.4; 10-SEP-2004 23:17:01; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;13239
13; 1514.8; 10-SEP-2004 23:19:32; Dark ; 70.5; 52; 16Bet Cet ; 2.04; 4500;occ; 141; 0;13239
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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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13; 1529.2; 17-SEP-2004 22:59:38; Dark ; 61.5; 52; 16Bet Cet ; 2.04; 4500;occ; 123; 0;13339
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7;	-3366.2;	19-SEP-2004	08:50:36;	Bright;	;	41.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	82;	0;	13359
8;	-3230.9;	19-SEP-2004	08:52:52;	Bright;	;	56.0;	53;	43Bet	And	;	2.05;	3300;	occ;	112;	0;	13359
9;	-3061.5;	19-SEP-2004	08:55:41;	Bright;	;	37.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	75;	0;	13359
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11;	-2606.9;	19-SEP-2004	09:03:16;	Bright;	;	35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	13359
12;	-2491.8;	19-SEP-2004	09:05:11;	Bright;	;	68.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	136;	0;	13359
13;	-2378.8;	19-SEP-2004	09:07:04;	Bright;	;	71.0;	175;	39Del	Per	;	3.01;	19400;	occ;	142;	0;	13359
14;	-2156.3;	19-SEP-2004	09:10:46;	Bright;	;	37.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	74;	0;	13359
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16;	-1882.6;	19-SEP-2004	09:15:20;	Bright;	;	36.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	72;	0;	13359
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19;	-1284.7;	19-SEP-2004	09:25:18;	Dark	;	156.5;	28;	12Bet	Tau	;	1.65;	15200;	occ;	313;	0;	13359
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28;	661.8;	19-SEP-2004	09:57:44;	Dark	;	41.0;	143;	Alp	Hyi	;	2.86;	7200;	occ;	82;	0;	13360
29;	747.9;	19-SEP-2004	09:59:10;	Dark	;	55.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	111;	0;	13360
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31;	1114.8;	19-SEP-2004	10:05:17;	Dark	;	46.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	93;	0;	13360
32;	1302.2;	19-SEP-2004	10:08:25;	Dark	;	40.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	80;	0;	13360
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34;	1532.2;	19-SEP-2004	10:12:15;	Dark	;	60.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	120;	0;	13360
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2;	-4125.1;	19-SEP-2004	11:59:09;	Bright;	;	39.0;	162;	34Alp	Aqr	;	2.94;	5350;	occ;	78;	0;	13361
3;	-3943.6;	19-SEP-2004	12:02:11;	Bright;	;	39.5;	61;	8Eps	Peg	;	2.10;	3900;	occ;	79;	0;	13361
4;	-3798.5;	19-SEP-2004	12:04:36;	Bright;	;	48.5;	140;	88Gam	Peg	;	2.83;	26000;	occ;	97;	0;	13361
5;	-3638.0;	19-SEP-2004	12:07:16;	Bright;	;	39.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	79;	0;	13361
6;	-3496.0;	19-SEP-2004	12:09:38;	Bright;	;	37.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	75;	0;	13361
7;	-3368.1;	19-SEP-2004	12:11:46;	Bright;	;	42.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	84;	0;	13361
8;	-3232.5;	19-SEP-2004	12:14:02;	Bright;	;	60.0;	53;	43Bet	And	;	2.05;	3300;	occ;	120;	0;	13361
9;	-3062.6;	19-SEP-2004	12:16:52;	Bright;	;	38.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	77;	0;	13361
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11;	-2493.9;	19-SEP-2004	12:26:20;	Bright;	;	72.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	144;	0;	13361
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13;	-2155.8;	19-SEP-2004	12:31:58;	Bright;	;	37.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	74;	0;	13361
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16;	-1668.5;	19-SEP-2004	12:40:06;	Bright;	;	68.5;	107;	37The	Aur	;	2.65;	11000;	occ;	137;	0;	13361
17;	-1473.4;	19-SEP-2004	12:43:21;	Bright;	;	64.0;	17;	78Bet	Gem	;	1.16;	4500;	occ;	128;	0;	13361
18;	-1282.2;	19-SEP-2004	12:46:32;	Dark	;	170.0;	28;	12Bet	Tau	;	1.65;	15200;	occ;	340;	0;	13361
19;	-1002.5;	19-SEP-2004	12:51:12;	Dark	;	58.0;	8;	10Alp	CMi	;	0.40;	6500;	occ;	116;	0;	13361
20;	-560.2;	19-SEP-2004	12:58:34;	Dark	;	44.5;	132;	15Rho	Pup	;	2.80;	6900;	occ;	89;	0;	13361
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22;	-256.7;	19-SEP-2004	13:03:38;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13361
23;	-146.7;	19-SEP-2004	13:05:28;	Dark	;	42.0;	46;	Del	Vel	;	1.95;	10600;	occ;	84;	0;	13361
24;	-52.5;	19-SEP-2004	13:07:02;	Dark	;	50.0;	41;	Eps	Car	;	1.86;	4100;	occ;	100;	0;	13361
25;	50.5;	19-SEP-2004	13:08:45;	Dark	;	89.5;	101;	11Alp	Lep	;	2.58;	7000;	occ;	179;	0;	13362
26;	366.7;	19-SEP-2004	13:14:01;	Dark	;	230.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	460;	0;	13362
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25;-142.9; 20-SEP-2004 09:12:42; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;13373
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28; 668.2; 20-SEP-2004 11:06:49; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;13375
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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
32; 1304.2; 20-SEP-2004 11:17:25; Dark ; 37.5; 172; Gam Gru ; 3.00; 13100;occ; 75; 0;13375
33; 1392.2; 20-SEP-2004 11:18:53; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;13375
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13; 1555.2; 01-OCT-2004 00:32:03; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;13526
14; 1943.5; 01-OCT-2004 00:38:31; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;13526
15; 2165.1; 01-OCT-2004 00:42:13; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;13526

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16; 2383.4; 01-OCT-2004 00:45:51; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;13526
17; 2523.9; 01-OCT-2004 00:48:12; Bright; 63.5; 105; 6Bet Ari ; 2.64; 8900;occ; 127; 0;13526
18; 2655.6; 01-OCT-2004 00:50:23; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;13526
19; 2948.3; 01-OCT-2004 00:55:16; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;13526
20; 3027.3; 01-OCT-2004 00:56:35; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;13526
21; 3264.7; 01-OCT-2004 01:00:32; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;13526
22; 3423.8; 01-OCT-2004 01:03:11; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13526
23; 3551.4; 01-OCT-2004 01:05:19; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13526
24; 3903.1; 01-OCT-2004 01:11:11; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;13526
25; 3993.4; 01-OCT-2004 01:12:41; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;13526
26; 4187.2; 01-OCT-2004 01:15:55; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13526
27; 4331.9; 01-OCT-2004 01:18:20; Bright; 90.5; 107; 37The Aur ; 2.65; 11000;occ; 181; 0;13526
28; 4512.4; 01-OCT-2004 01:21:20; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;13526
29; 4800.5; 01-OCT-2004 01:26:08; Dark ; 106.0; 170; 27Eps Gem ; 3.00; 9700;occ; 212; 0;13526
30; 5167.5; 01-OCT-2004 01:32:15; Dark ; 72.0; 8; 10Alp CMi ; 0.40; 6500;occ; 144; 0;13526
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20040930_192019_000060422030_00443_13523_0949.N1
1;-5076.6; 30-SEP-2004 19:20:19; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 90;13523
2;-4895.3; 30-SEP-2004 19:23:21; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;13523
3;-4617.0; 30-SEP-2004 19:27:59; Dark ; 40.5; 18; 24Alp PsA ; 1.17; 9700;occ; 81; 0;13523
4;-4480.5; 30-SEP-2004 19:30:15; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;13523
5;-4093.1; 30-SEP-2004 19:36:43; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;13523
6;-3869.7; 30-SEP-2004 19:40:26; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;13523
7;-3651.3; 30-SEP-2004 19:44:05; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;13523
8;-3509.5; 30-SEP-2004 19:46:26; Bright; 65.5; 105; 6Bet Ari ; 2.64; 8900;occ; 131; 0;13523
9;-3378.6; 30-SEP-2004 19:48:37; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;13523
10;-3086.4; 30-SEP-2004 19:53:30; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;13523
11;-3006.3; 30-SEP-2004 19:54:50; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13523
12;-2769.1; 30-SEP-2004 19:58:47; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;13523
13;-2608.8; 30-SEP-2004 20:01:27; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13523
14;-2485.4; 30-SEP-2004 20:03:31; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;13523
15;-2131.6; 30-SEP-2004 20:09:24; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;13523
16;-2041.6; 30-SEP-2004 20:10:54; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;13523
17;-1848.9; 30-SEP-2004 20:14:07; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;13523
18;-1703.2; 30-SEP-2004 20:16:33; Bright; 90.0; 107; 37The Aur ; 2.65; 11000;occ; 180; 0;13523
19;-1524.7; 30-SEP-2004 20:19:31; Bright; 54.5; 24; 66Alp Gem ; 1.58; 10200;occ; 109; 0;13523
20;-1238.7; 30-SEP-2004 20:24:17; Dark ; 100.0; 170; 27Eps Gem ; 3.00; 9700;occ; 200; 0;13523
21;-872.0; 30-SEP-2004 20:30:24; Dark ; 85.0; 8; 10Alp CMi ; 0.40; 6500;occ; 170; 0;13523
22;-449.5; 30-SEP-2004 20:37:26; Dark ; 50.5; 132; 15Rho Pup ; 2.80; 6900;occ; 101; 0;13523
23;-295.1; 30-SEP-2004 20:40:01; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;13523
24;-203.5; 30-SEP-2004 20:41:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13523
25;-97.4; 30-SEP-2004 20:43:19; Dark ; 42.0; 46; De1 Vel ; 1.95; 10600;occ; 84; 0;13523
26; 306.1; 30-SEP-2004 20:50:02; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;13524
27; 602.6; 30-SEP-2004 20:54:58; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13524
28; 731.1; 30-SEP-2004 20:57:07; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13524
29; 816.0; 30-SEP-2004 20:58:32; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;13524
30; 913.9; 30-SEP-2004 21:00:10; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13524

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