

# GOMOS Daily Report 20-AUG-2004

## Level 0 and Level 1 products

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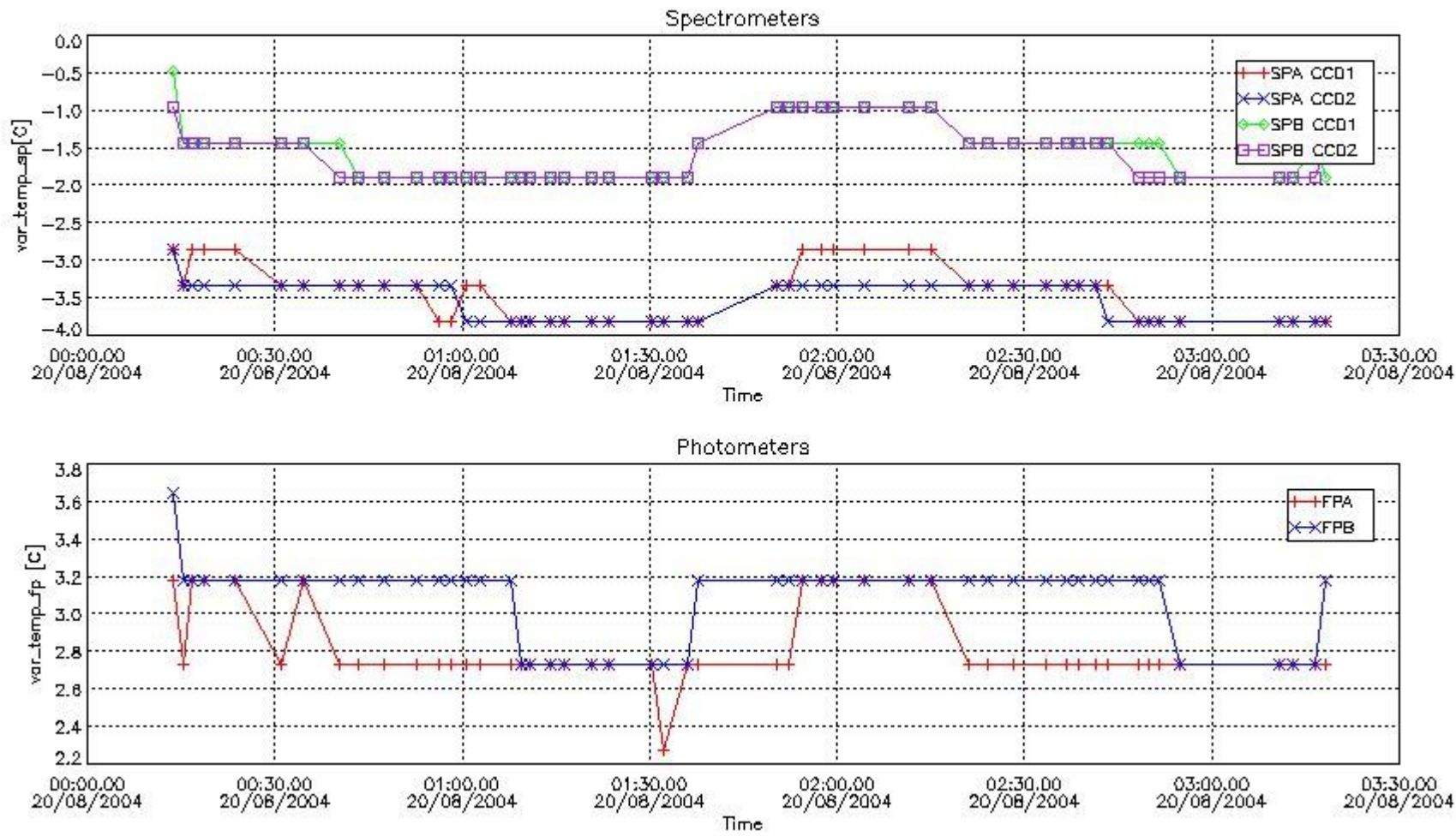
### 1. General Info

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	22AUG2004 05:01:40
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (20AUG2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (21AUG2004 00:00:00)



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



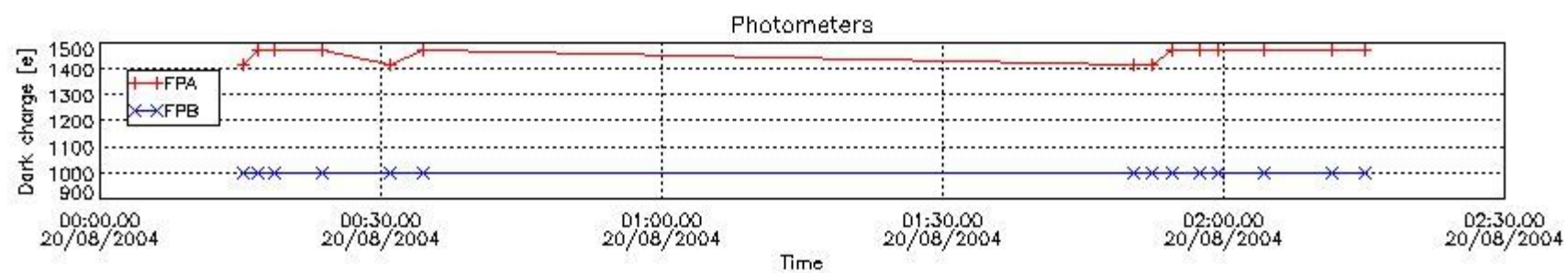
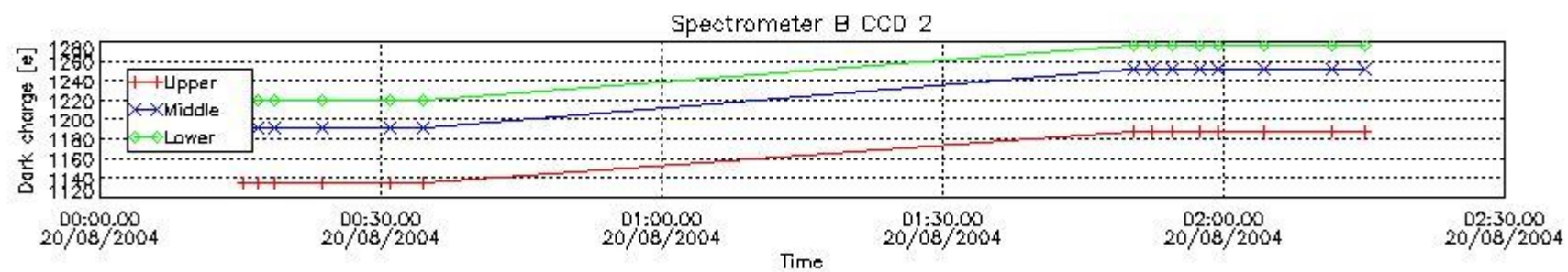
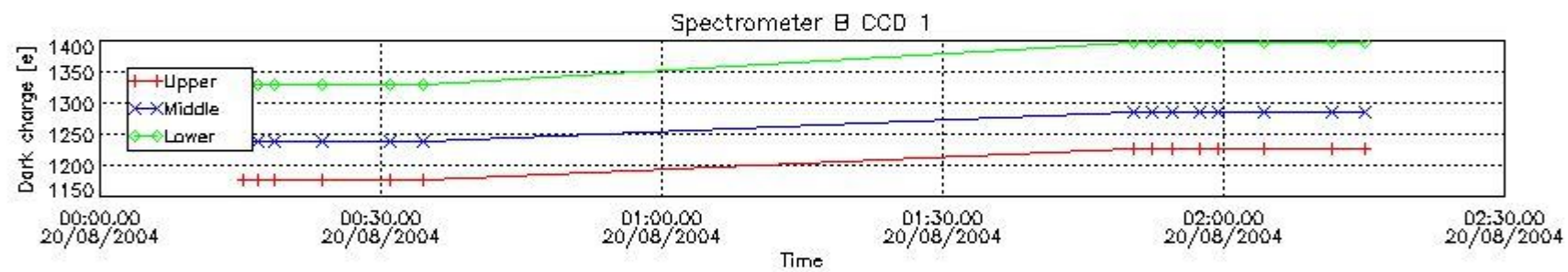
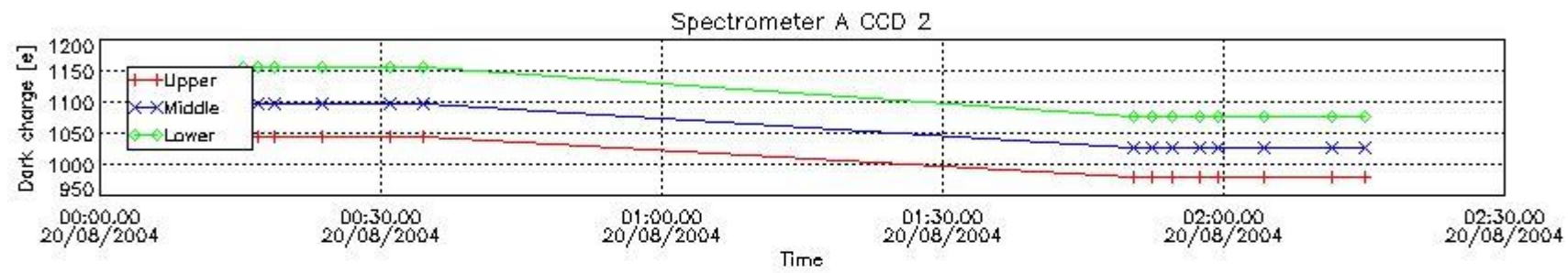
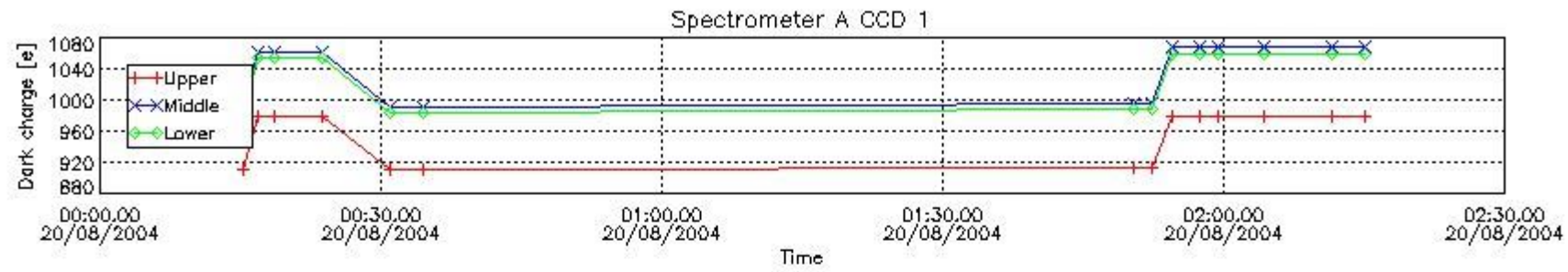
### 4. Overview of dark signal processing per product

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



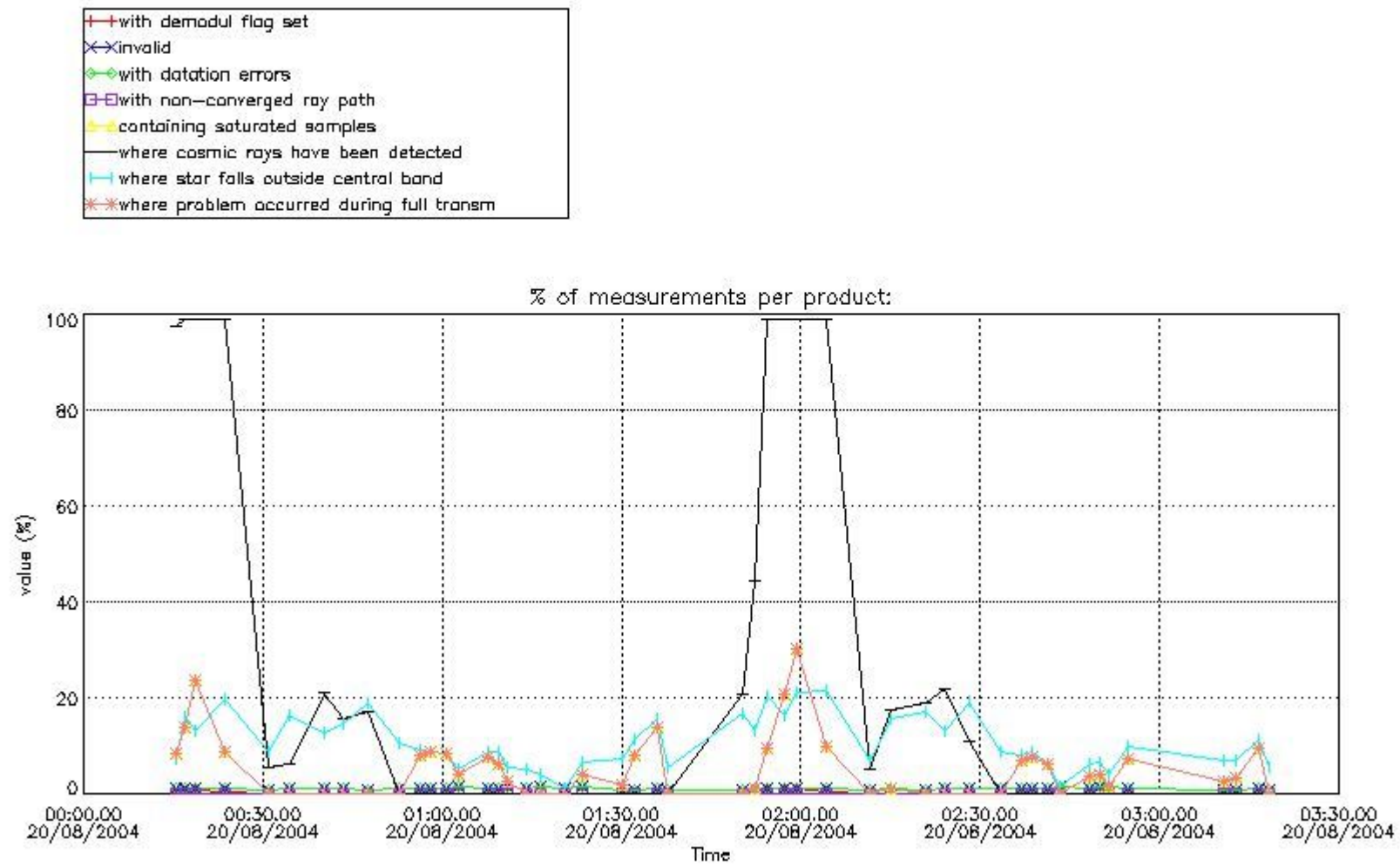
## 5. Demodulation flag and quality information monitoring

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.

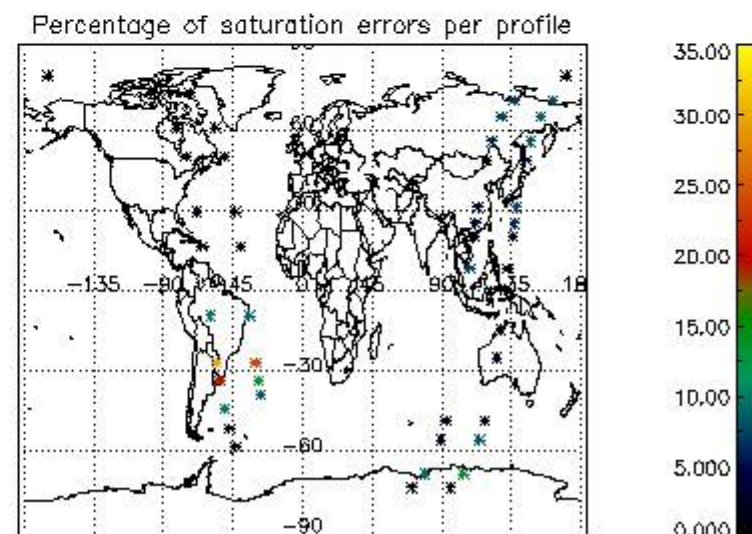
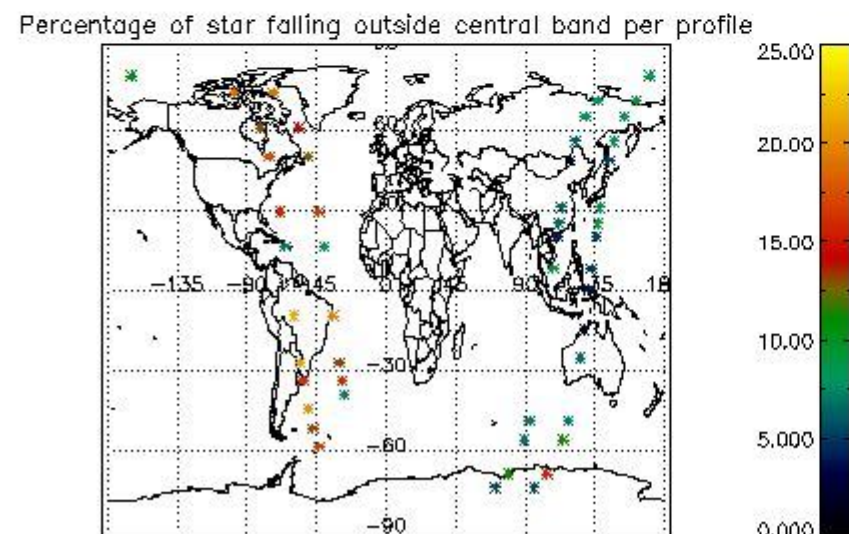
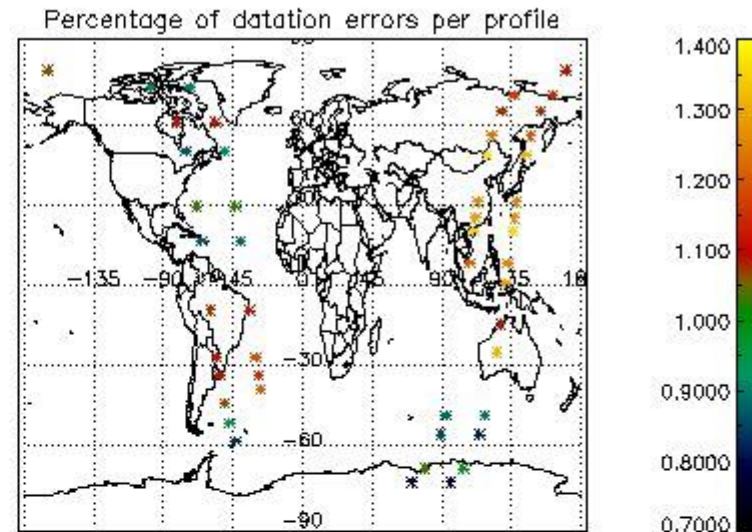
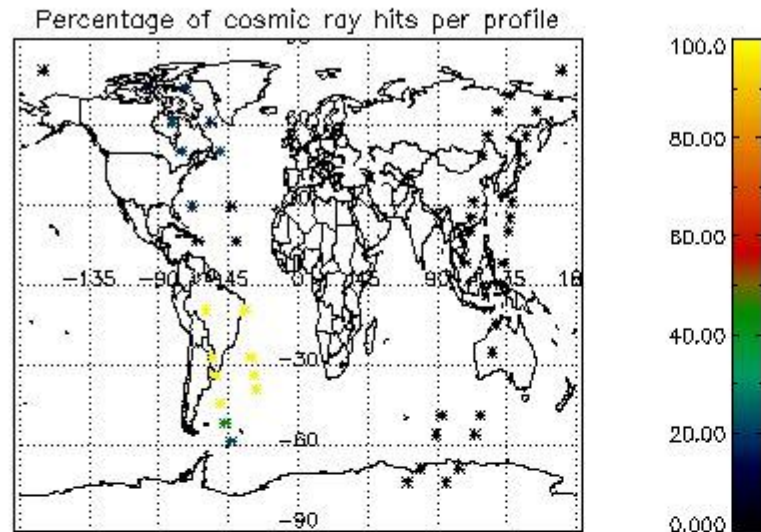
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.3673 %
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)



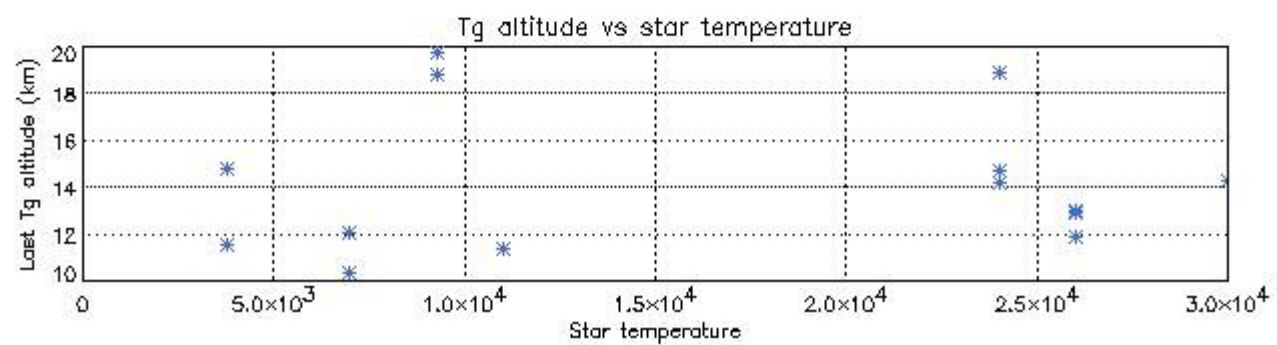
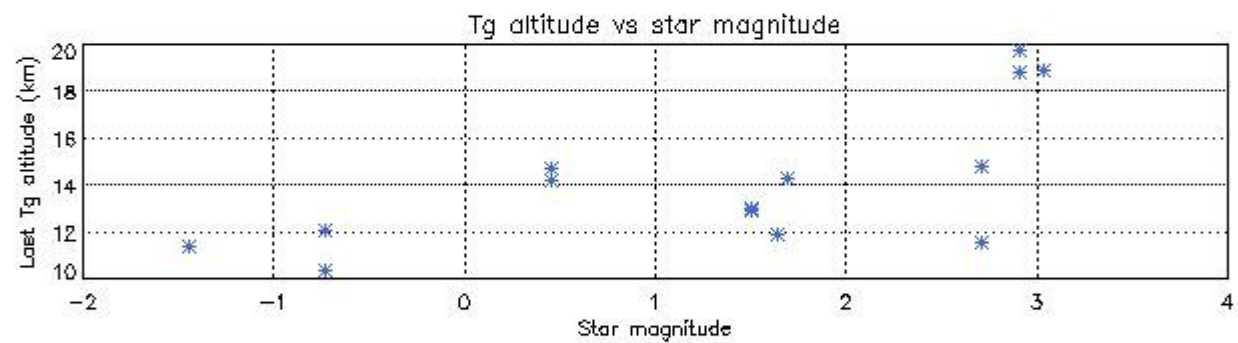
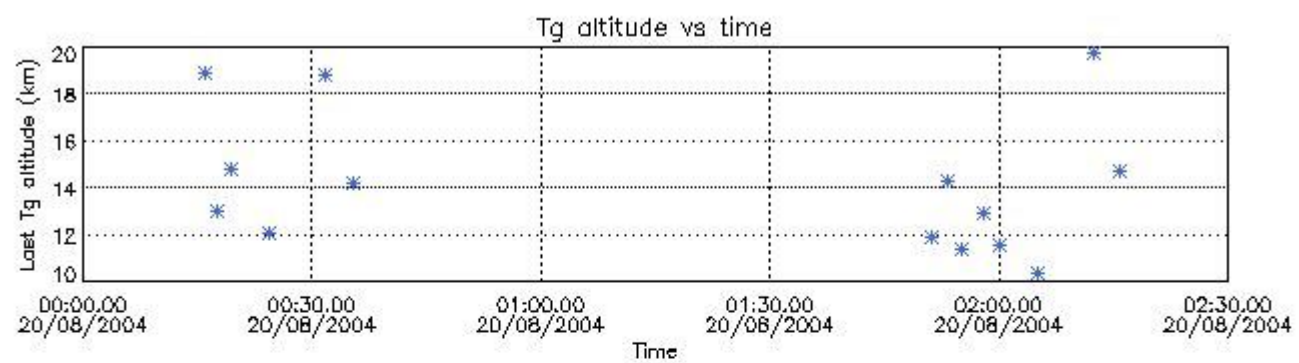
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.182	19.068	14.179
St. deviation:	2.9951	3.0950	2.0339
Maximum:	19.743	24.690	15.617
Minimum:	10.384	12.154	12.741
Number of data:	14.000	33.000	2.0000

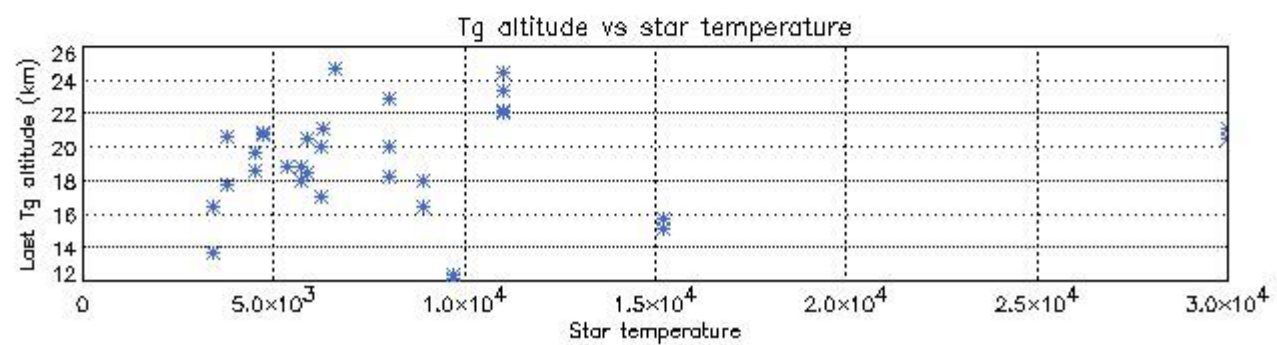
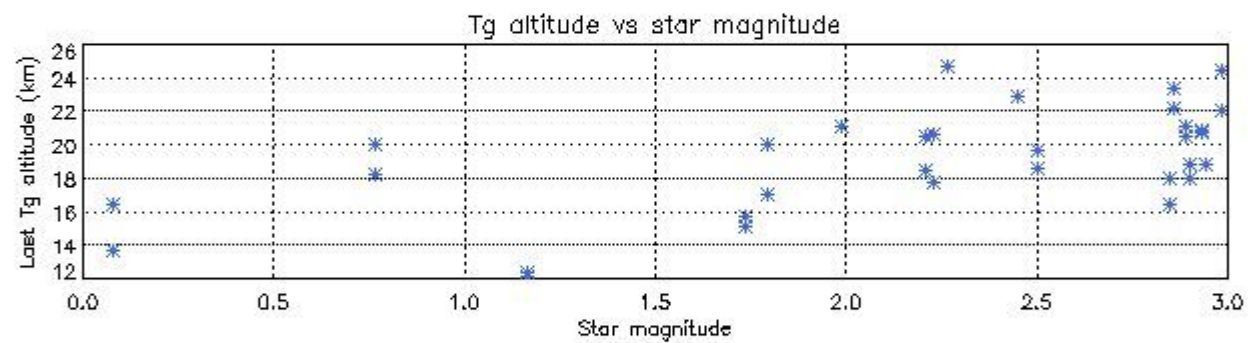
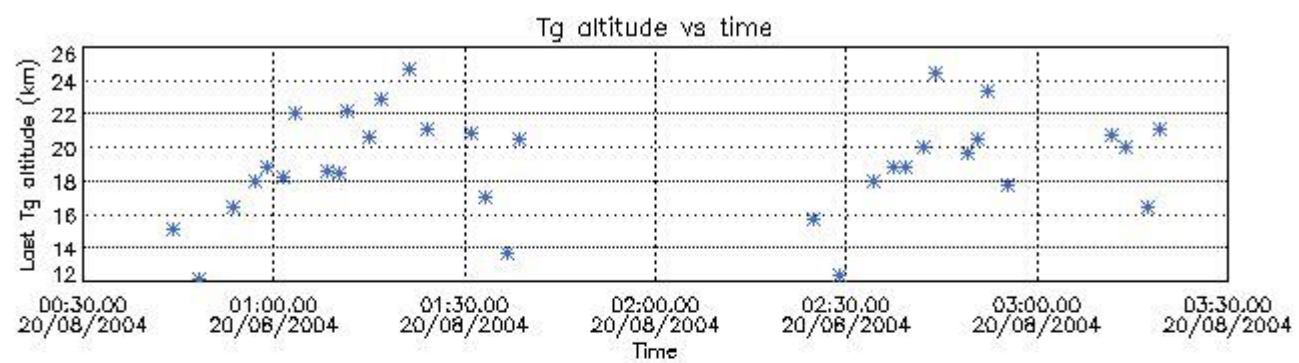
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

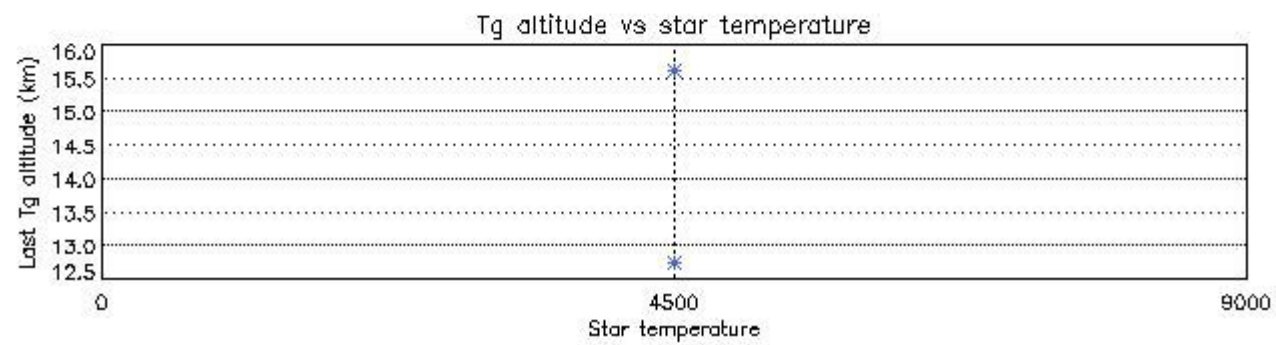
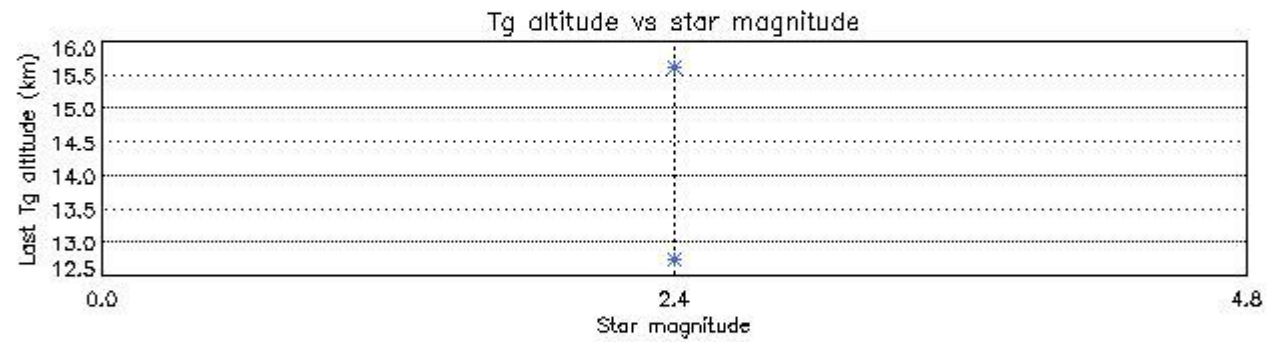
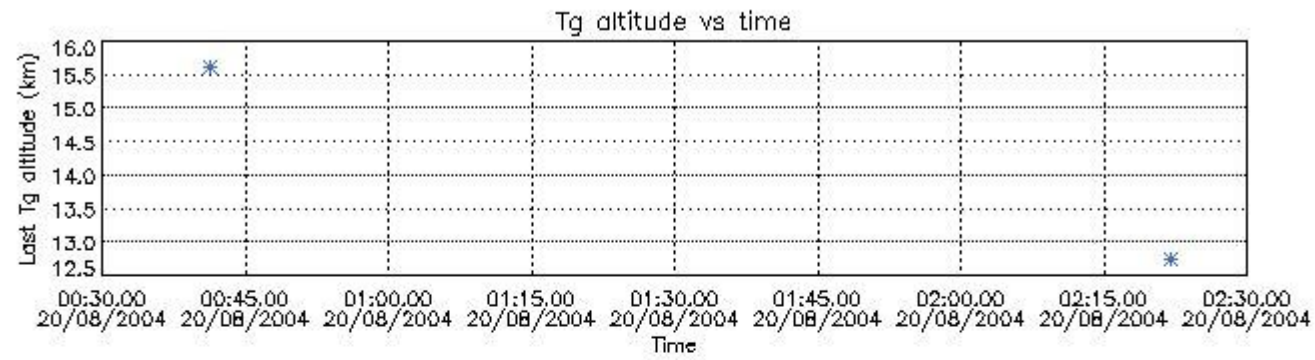
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



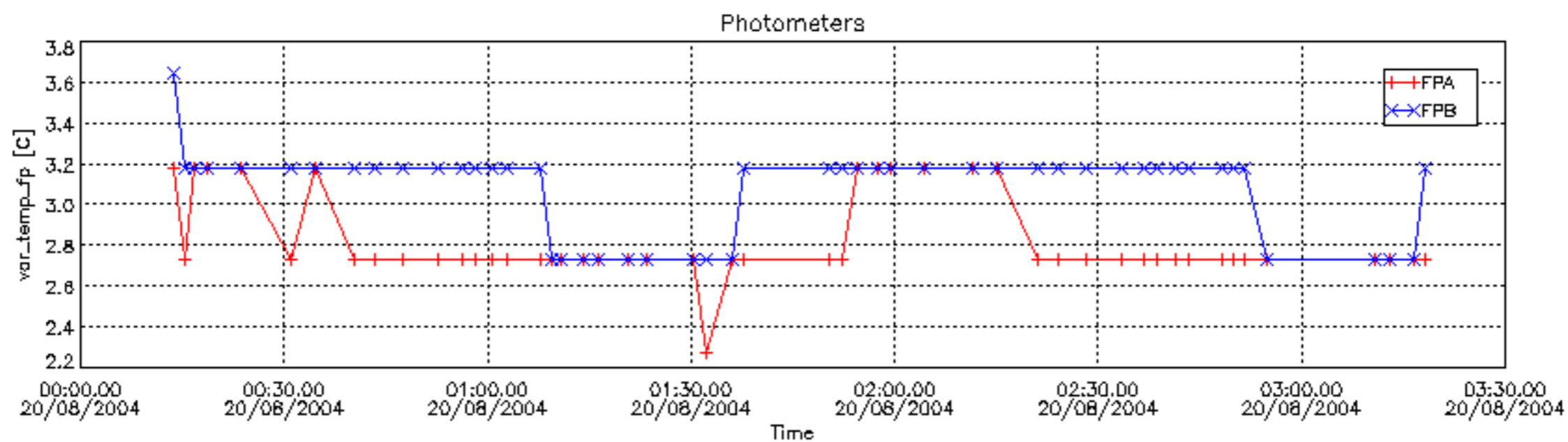
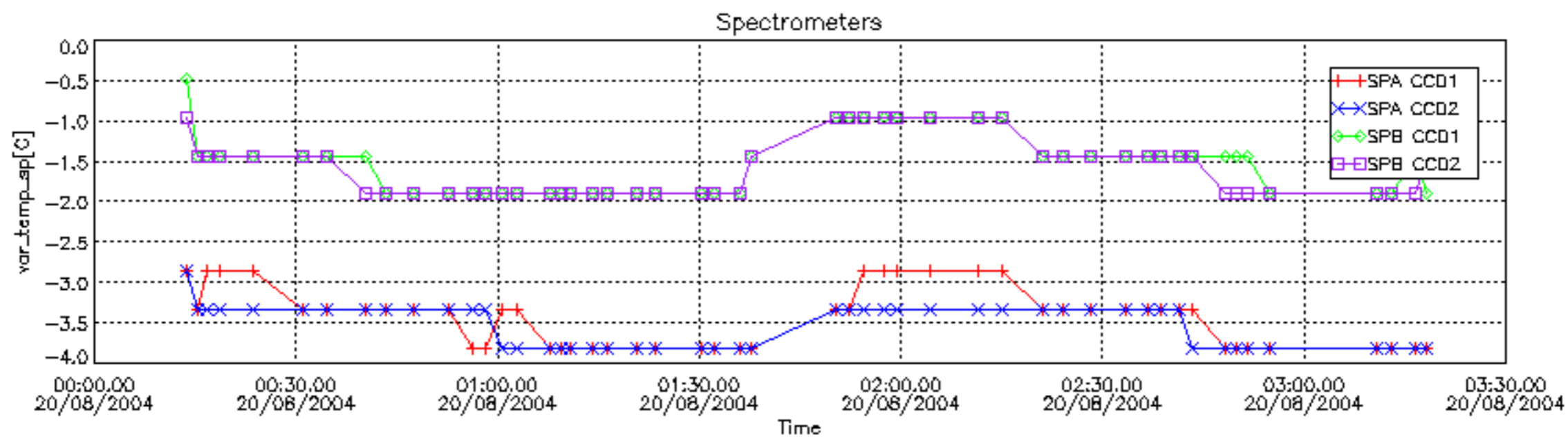
## Tangent altitude at which the star is lost

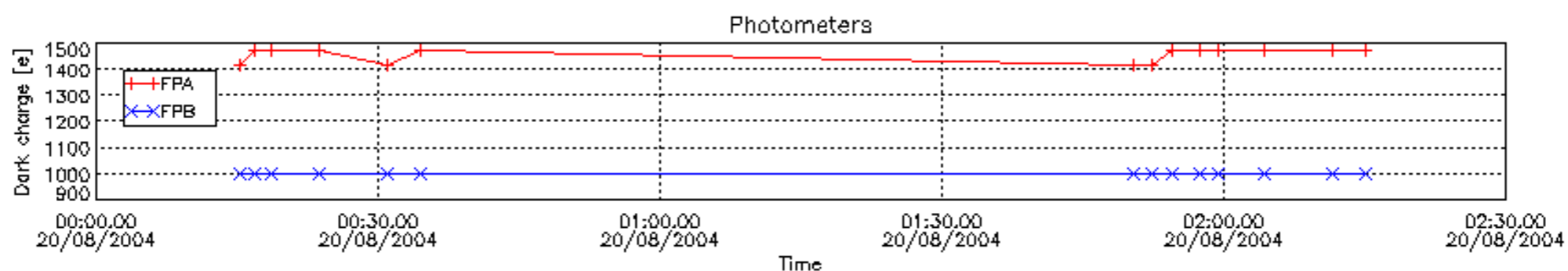
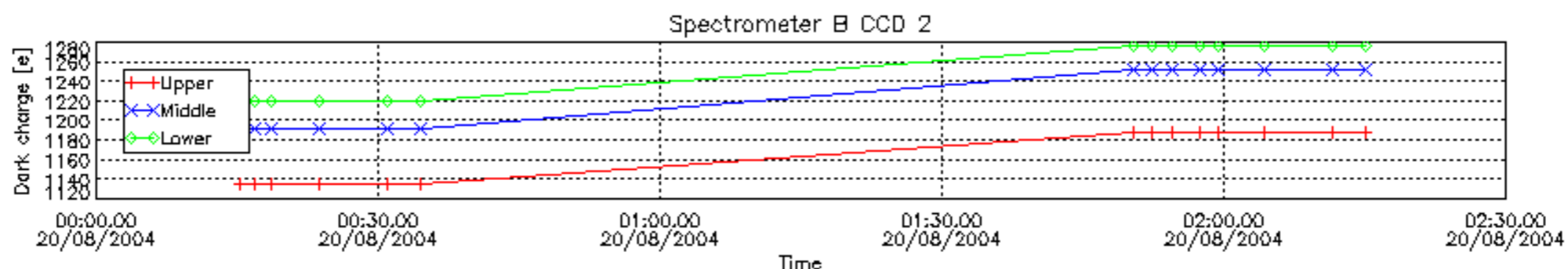
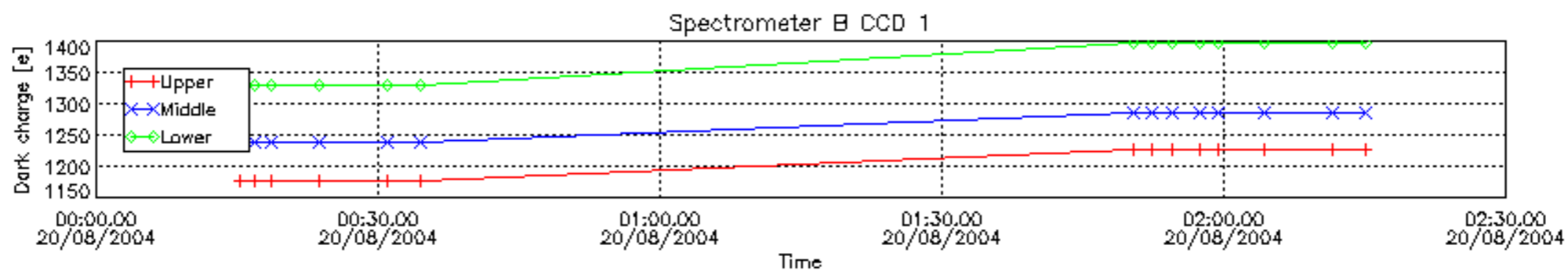
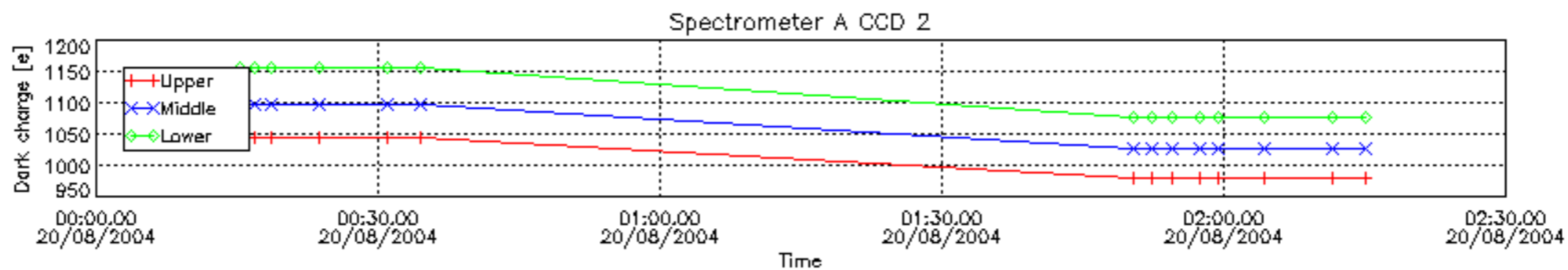
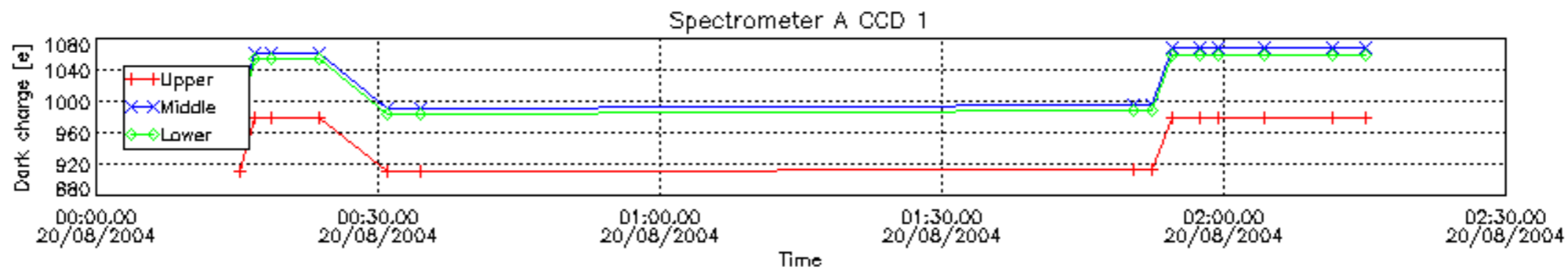


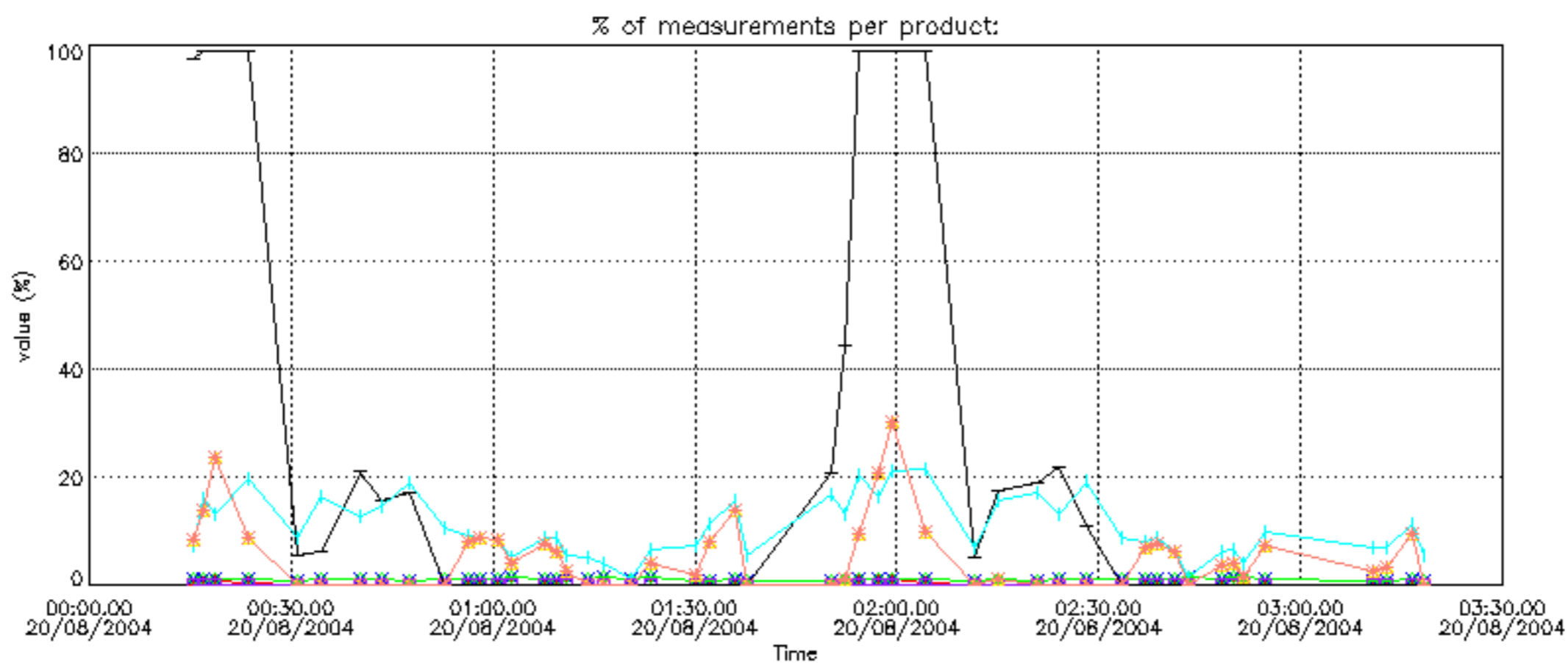
## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

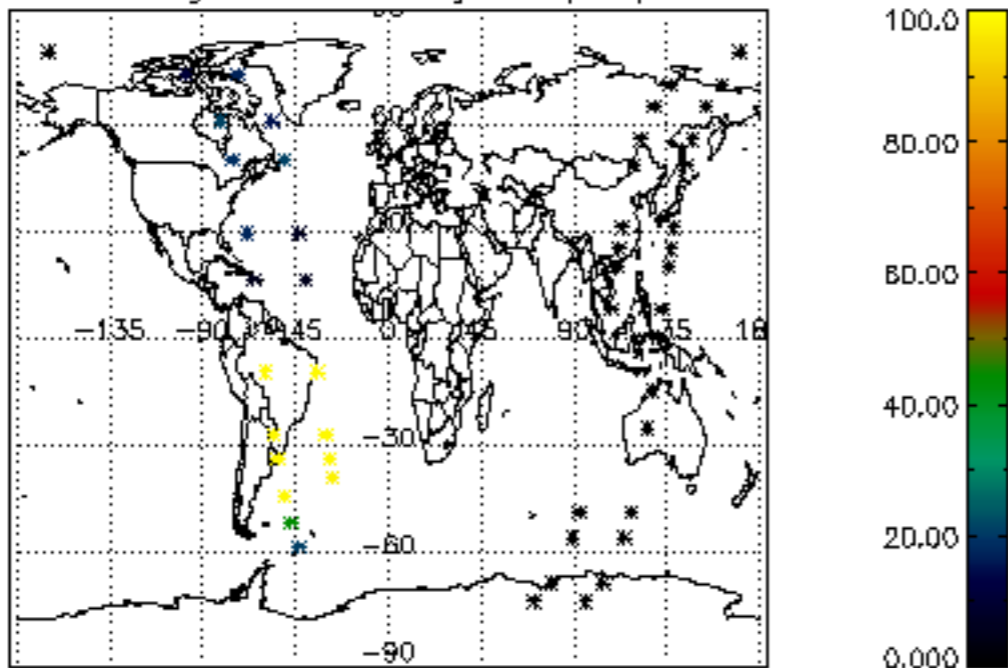
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.2	1446.8	1461.8	1447.5
St. deviation:	4.5712	5.6960	7.2776	8.0214
Maximum:	1515.0	1496.0	1523.0	1504.0
Minimum:	1447.0	1437.0	1419.0	1397.0
Number of data:	18300.	18300.	39950.	39950.



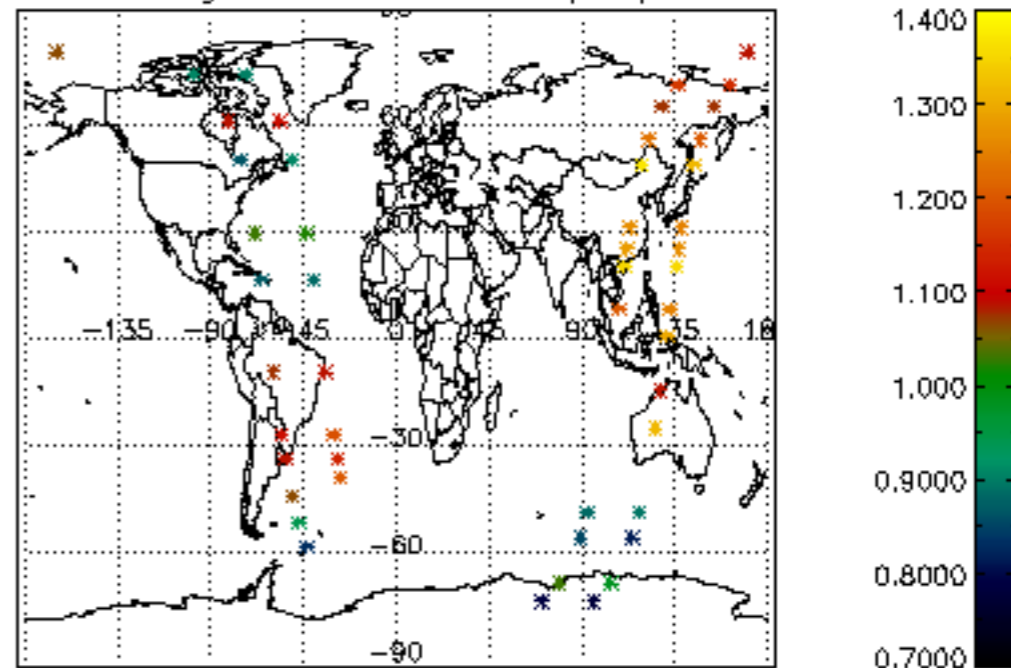




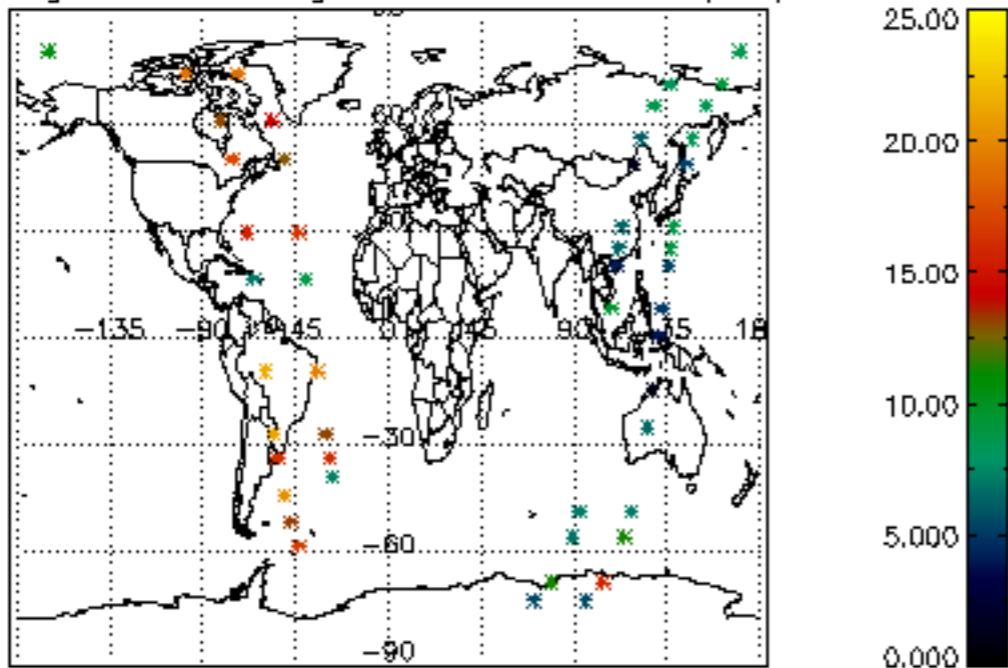
Percentage of cosmic ray hits per profile



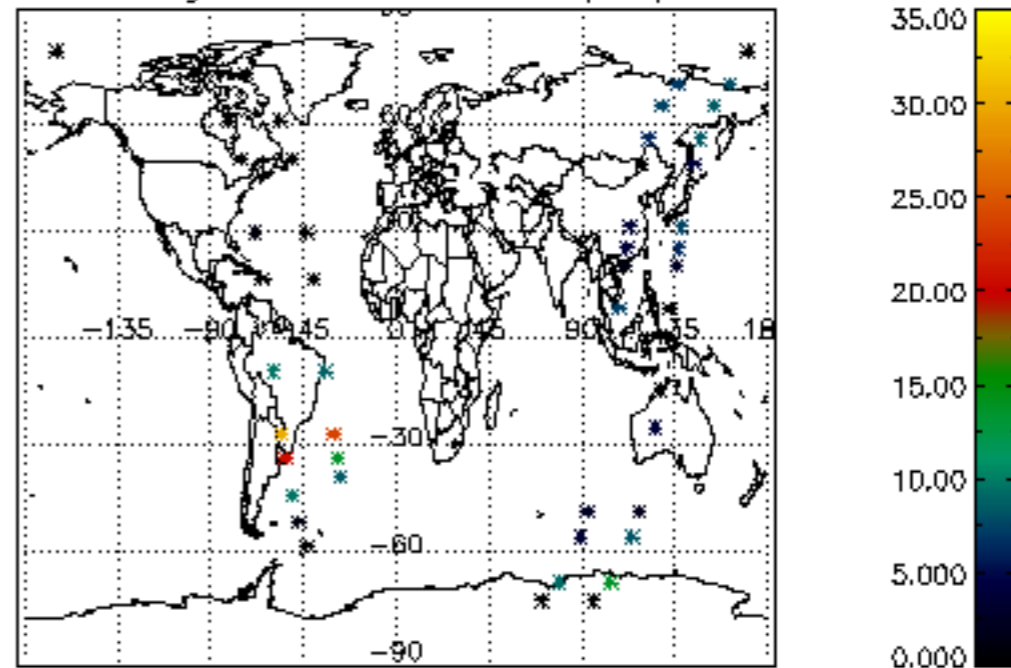
Percentage of datation errors per profile



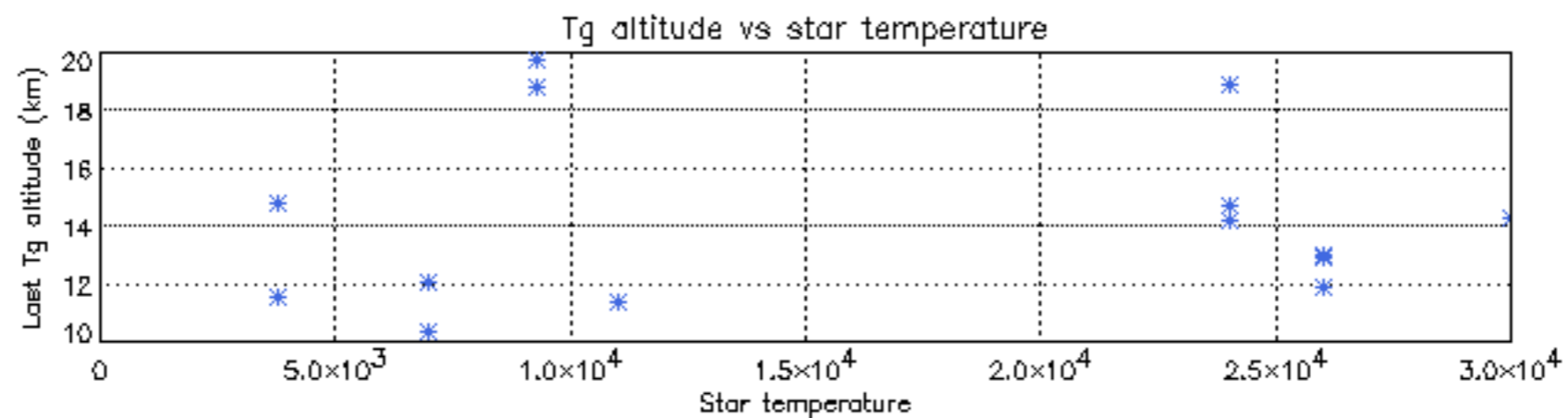
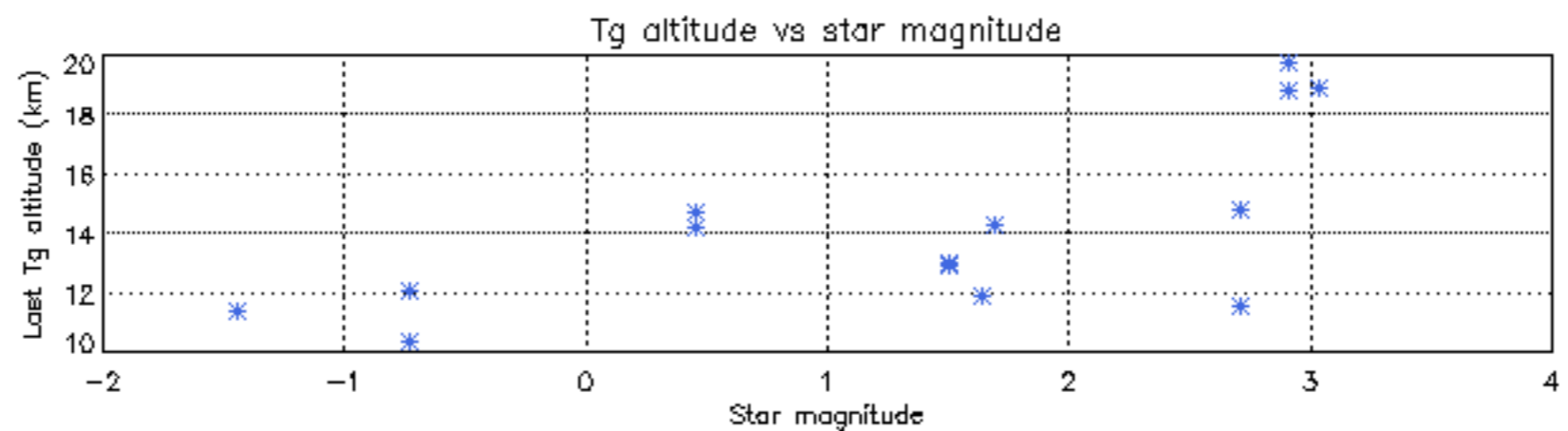
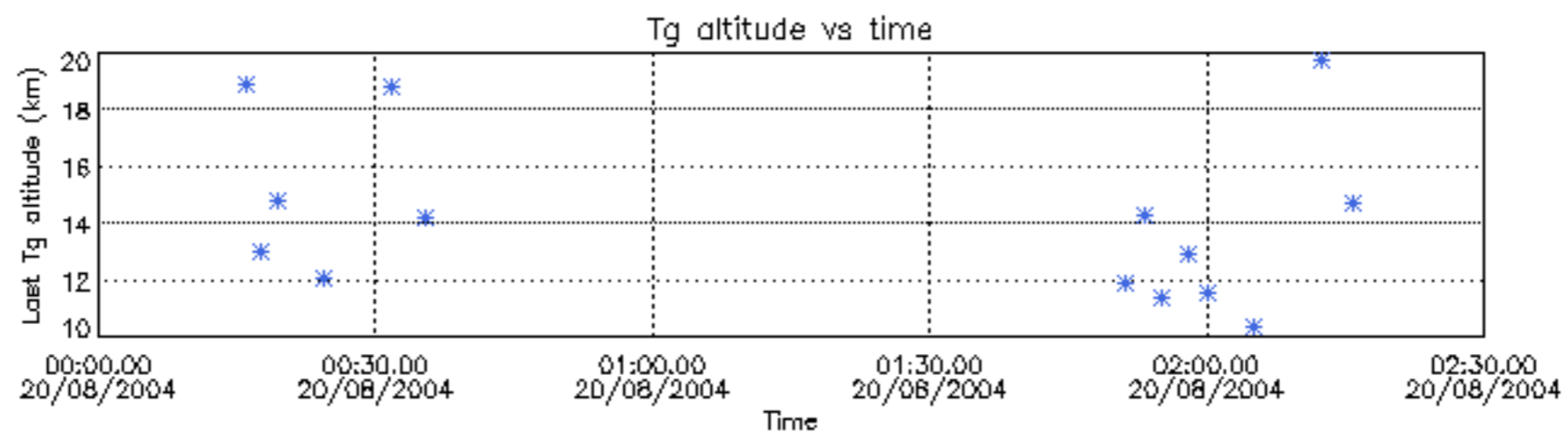
Percentage of star falling outside central band per profile



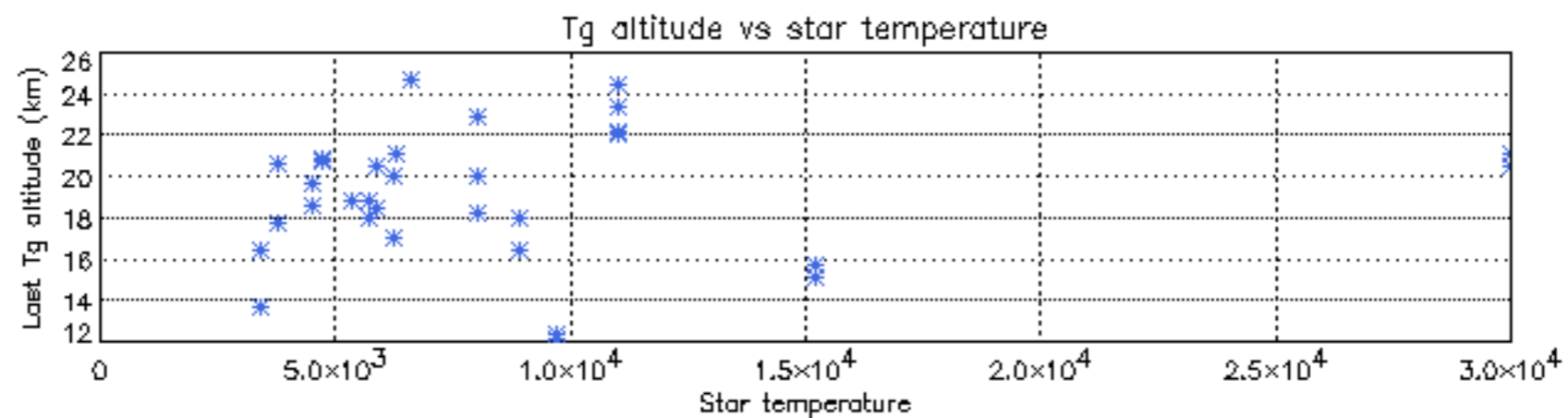
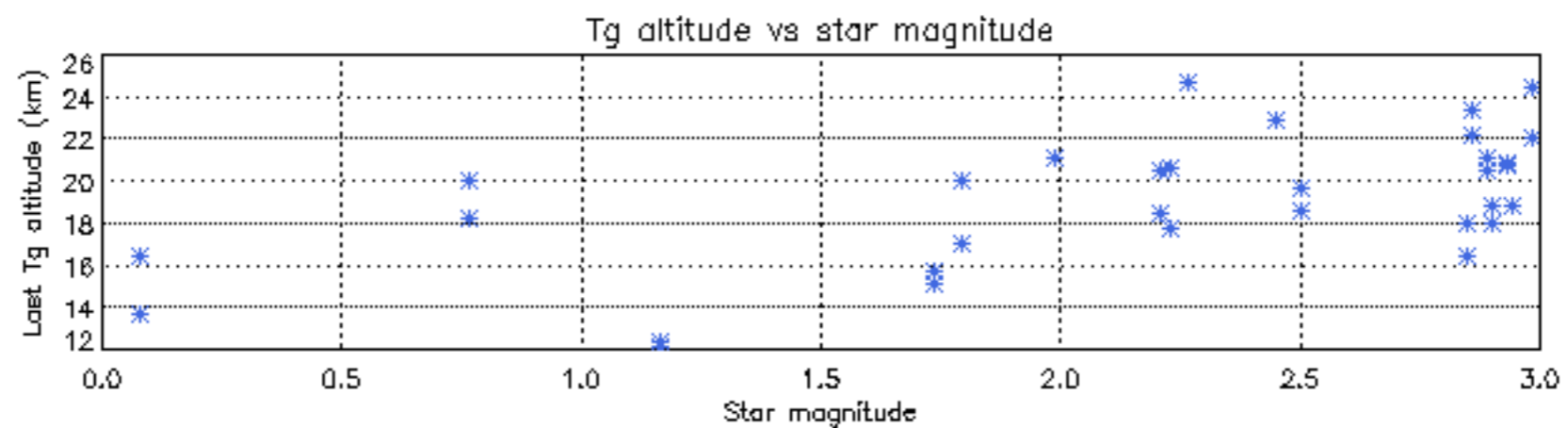
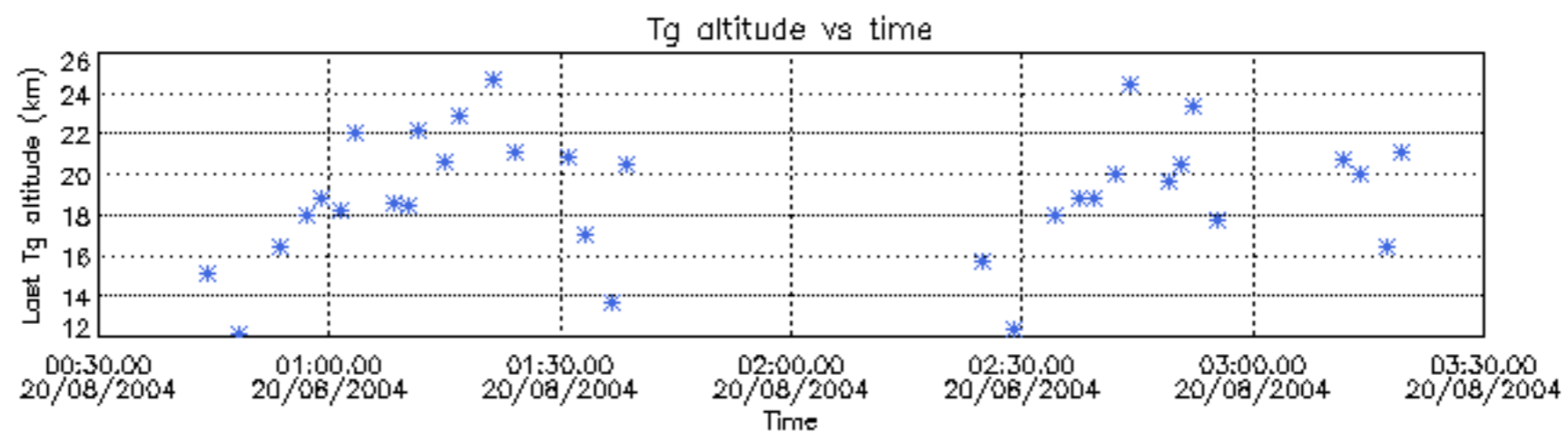
Percentage of saturation errors per profile



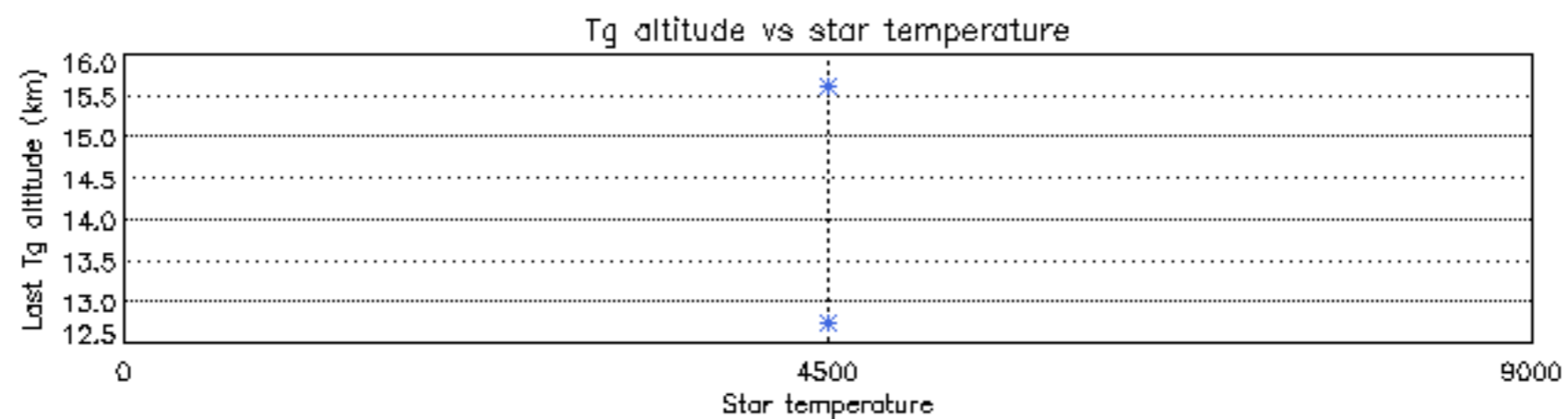
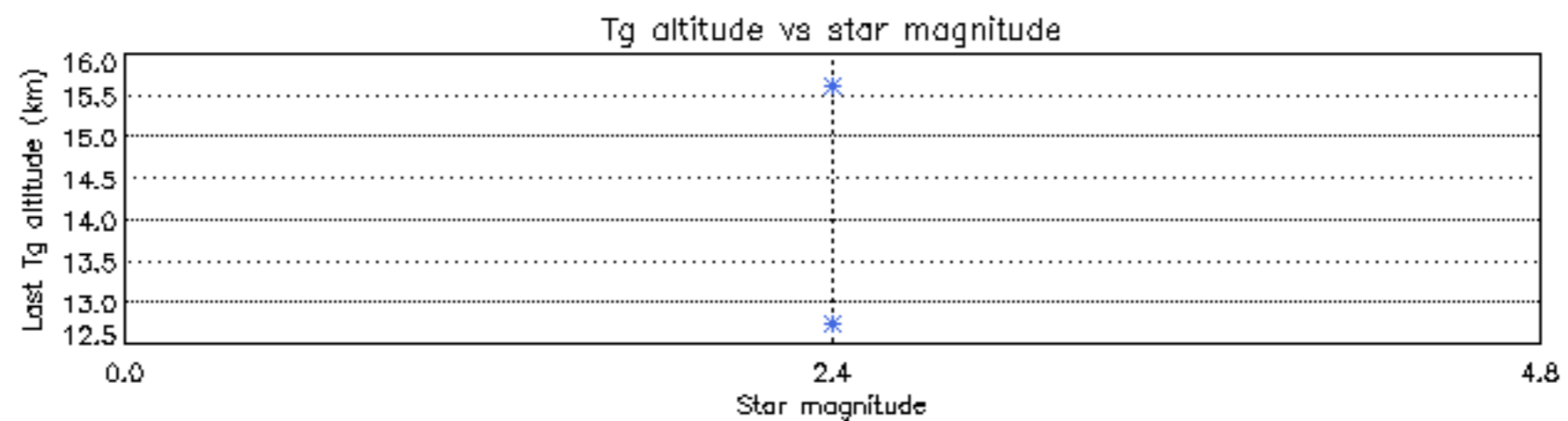
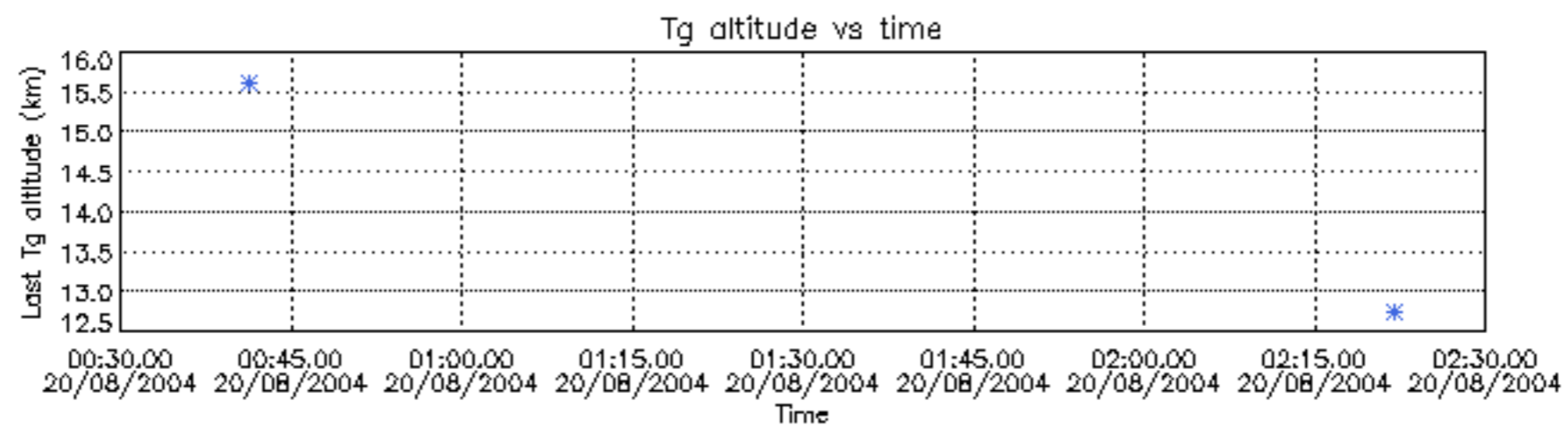
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 7; 592.4; 01-AUG-2004 00:33:19; Dark ; 60.5; 84; Alp Phe ; 2.40; 4500;occ; 121; 0;12653
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 6; 308.2; 01-AUG-2004 02:09:10; Dark ; 55.5; 9; Alp Eri ; 0.45; 24000;occ; 111; 0;12654
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 19; -811.7; 02-AUG-2004 13:03:05; Dark ; 39.0; 1; 9Alp CMA ; -1.44; 11000;occ; 78; 0;12674  
 20; -723.8; 02-AUG-2004 13:04:33; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;12674  
 21; -565.1; 02-AUG-2004 13:07:11; Dark ; 58.0; 165; 34Gam Eri ; 2.95; 3200;occ; 116; 0;12674  
 22; -283.9; 02-AUG-2004 13:11:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12674  
 23; -0.3; 02-AUG-2004 13:16:36; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;12674  
 24; 323.4; 02-AUG-2004 13:22:00; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;12675  
 25; 430.4; 02-AUG-2004 13:23:47; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12675  
 26; 617.4; 02-AUG-2004 13:26:54; Dark ; 60.0; 84; Alp Phe ; 2.40; 4500;occ; 120; 0;12675  
 27; 727.7; 02-AUG-2004 13:28:44; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;12675  
 28; 931.1; 02-AUG-2004 13:32:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;12675  
 29; 1147.7; 02-AUG-2004 13:35:44; Dark ; 72.0; 18; 24Alp PsA ; 1.17; 9700;occ; 144; 0;12675  
 30; 1416.2; 02-AUG-2004 13:40:13; Dark ; 50.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 101; 0;12675  
 31; 1570.0; 02-AUG-2004 13:42:46; Bright; 1.5; 142; 49Del Cap ; 2.85; 8900;occ; 3; 0;12675

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Problem occurred when reading packet number 991!

Problem occurred when reading packet number 3241!

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 4;-3891.0; 02-AUG-2004 13:52:21; Bright; 36.5; 168; 17Zet Aql ; 2.99; 11000;occ; 73; 0;12675  
 5;-3465.1; 02-AUG-2004 13:59:27; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;12675  
 6;-3347.6; 02-AUG-2004 14:01:25; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;12675  
 7;-3235.4; 02-AUG-2004 14:03:17; Bright; 41.0; 69; 33Gam Dra ; 2.23; 3800;occ; 82; 0;12675  
 8;-2991.4; 02-AUG-2004 14:07:21; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12675  
 9;-2743.8; 02-AUG-2004 14:11:28; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;12675  
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 12;-2067.8; 02-AUG-2004 14:22:45; Bright; 316.0; 160; 23Gam Per ; 2.93; 4700;occ; 632; 547;12675  
 13;-144771048.8; 01-JAN-2000 00:46:23; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 90;12675  
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 15;-144770764.8; 01-JAN-2000 00:51:07; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12675  
 16;-144770416.9; 01-JAN-2000 00:56:55; Dark ; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;12675  
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 18;-144770143.1; 01-JAN-2000 01:01:29; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;12675  
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 20;-144769948.4; 01-JAN-2000 01:04:44; Dark ; 39.0; 125; 44Iot Ori ; 2.77; 30000;occ; 78; 0;12675  
 21;-144769836.0; 01-JAN-2000 01:06:36; Dark ; 45.0; 1; 9Alp CMA ; -1.44; 11000;occ; 90; 0;12675  
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 24;-144769502.4; 01-JAN-2000 01:12:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12675  
 25;-144769231.6; 01-JAN-2000 01:16:41; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;12675  
 26;-144769024.4; 01-JAN-2000 01:20:08; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;12675  
 27;-144768701.3; 01-JAN-2000 01:25:31; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;12675  
 28;-144768594.9; 01-JAN-2000 01:27:17; Dark ; 41.0; 135; Bet Hyi ; 2.82; 5800;occ; 82; 0;12675  
 29;-144768406.0; 01-JAN-2000 01:30:26; Dark ; 65.0; 84; Alp Phe ; 2.40; 4500;occ; 130; 0;12675  
 30;-144768297.3; 01-JAN-2000 01:32:15; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;12675  
 31;-144768092.7; 01-JAN-2000 01:35:40; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 15;12675  
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 33;-144767609.7; 01-JAN-2000 01:43:43; Dark ; 10.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 20; 0;12675

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 9;-2991.6; 02-AUG-2004 15:47:57; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;12676

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16;-1391.8; 02-AUG-2004 16:14:36; Dark ; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;12676
17;-1237.1; 02-AUG-2004 16:17:11; Dark ; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;12676
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19;-1003.1; 02-AUG-2004 16:21:05; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;12676
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22; -723.0; 02-AUG-2004 16:25:45; Dark ; 44.0; 101; 11Alp Lep ; 2.58; 7000;occ; 88; 0;12676
23; -576.1; 02-AUG-2004 16:28:12; Dark ; 40.0; 177; 1Zet CMA ; 3.02; 26000;occ; 80; 0;12676
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25; -206.6; 02-AUG-2004 16:34:22; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;12676
26; 2.1; 02-AUG-2004 16:37:50; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;12677
27; 324.7; 02-AUG-2004 16:43:13; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;12677
28; 430.4; 02-AUG-2004 16:44:59; Dark ; 41.5; 135; Bet Hyi ; 2.82; 5800;occ; 83; 0;12677
29; 620.5; 02-AUG-2004 16:48:09; Dark ; 57.0; 84; Alp Phe ; 2.40; 4500;occ; 114; 0;12677
30; 728.2; 02-AUG-2004 16:49:56; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;12677
31; 931.9; 02-AUG-2004 16:53:20; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;12677
32; 1149.6; 02-AUG-2004 16:56:58; Dark ; 22.0; 18; 24Alp PsA ; 1.17; 9700;occ; 44; 0;12677
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4; 932.9; 02-AUG-2004 21:55:09; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;12680
5; 1151.1; 02-AUG-2004 21:58:47; Dark ; 68.5; 18; 24Alp PsA ; 1.17; 9700;occ; 137; 0;12680
6; 1416.6; 02-AUG-2004 22:03:13; Dark ; 48.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 96; 0;12680
7; 1569.9; 02-AUG-2004 22:05:46; Bright; 52.5; 142; 49Del Cap ; 2.85; 8900;occ; 105; 0;12680
8; 1815.4; 02-AUG-2004 22:09:52; Bright; 53.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 107; 0;12680
9; 2055.6; 02-AUG-2004 22:13:52; Bright; 39.0; 11; 53Alp Aql ; 0.76; 8000;occ; 78; 0;12680
10; 2144.9; 02-AUG-2004 22:15:21; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;12680
11; 2570.4; 02-AUG-2004 22:22:26; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;12680
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13; 2800.5; 02-AUG-2004 22:26:17; Bright; 35.0; 69; 33Gam Dra ; 2.23; 3800;occ; 70; 0;12680
14; 3046.0; 02-AUG-2004 22:30:22; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;12680
15; 3293.1; 02-AUG-2004 22:34:29; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;12680
16; 3439.1; 02-AUG-2004 22:36:55; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;12680
17; 3574.0; 02-AUG-2004 22:39:10; Bright; 50.0; 76; 27Gam Cas ; 2.30; 30000;occ; 100; 0;12680
18; 3965.8; 02-AUG-2004 22:45:42; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;12680
19; 4135.6; 02-AUG-2004 22:48:32; Bright; 85.5; 73; 57Gam1And ; 2.26; 13100;occ; 171; 0;12680
20; 4290.4; 02-AUG-2004 22:51:07; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12680
21; 4644.9; 02-AUG-2004 22:57:01; Dark ; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;12680
22; 4800.5; 02-AUG-2004 22:59:37; Dark ; 62.5; 13; 87Alp Tau ; 0.87; 3800;occ; 125; 0;12680
23; 4919.3; 02-AUG-2004 23:01:35; Dark ; 45.0; 27; 24Gam Ori ; 1.64; 26000;occ; 90; 0;12680
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13; 1815.6; 02-AUG-2004 23:50:28; Bright; 51.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 103; 0;12681
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15; 2144.4; 02-AUG-2004 23:55:56; Bright; 38.5; 168; 17Zet Aql ; 2.99; 11000;occ; 77; 0;12681
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25; 4289.4; 03-AUG-2004 00:31:41; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12681
26; 4644.9; 03-AUG-2004 00:37:37; Dark ; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;12681
27; 4801.3; 03-AUG-2004 00:40:13; Dark ; 64.5; 13; 87Alp Tau ; 0.87; 3800;occ; 129; 0;12681
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3; -4465.4; 02-AUG-2004 17:03:59; Bright; 53.5; 142; 49Del Cap ; 2.85; 8900;occ; 107; 0;12677
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9; -3236.5; 02-AUG-2004 17:24:28; Bright; 43.0; 69; 33Gam Dra ; 2.23; 3800;occ; 86; 0;12677
10; -2990.9; 02-AUG-2004 17:28:33; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;12677
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