

# GOMOS Daily Report 04-AUG-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	06AUG2004 05:01:28
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (04AUG2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (05AUG2004 00:00:00)

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

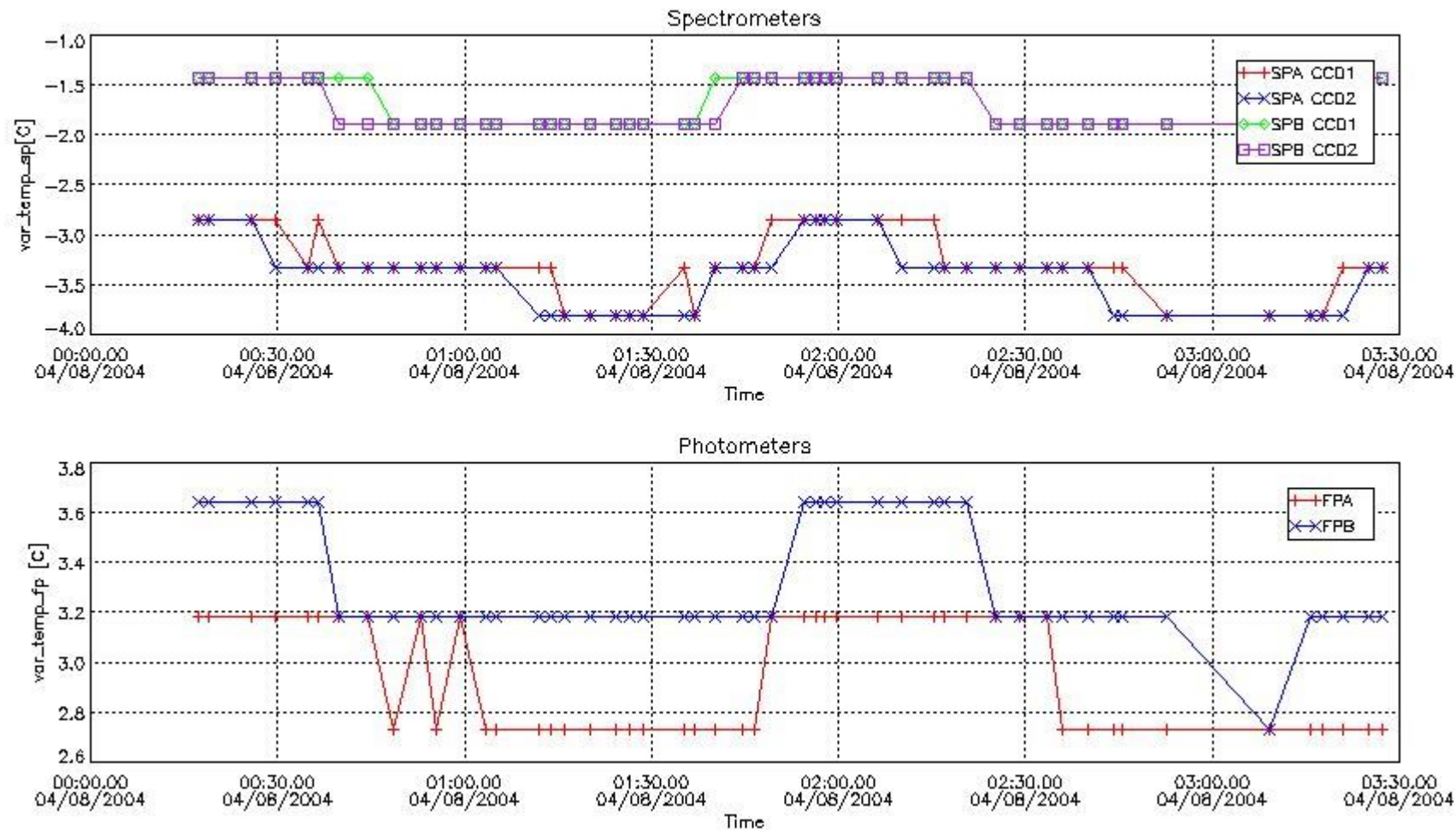
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20040804_001715_000000412029_00116_12695_0000.N1	04-AUG-2004 00:17:15	Dark	41.000	101	11Alp Lep	2.5820	7000.0	82	12695	No
GOM_TRA_1PNPDE20040804_001900_000000412029_00116_12695_0001.N1	04-AUG-2004 00:19:00	Dark	41.000	23	21Eps CMa	1.5020	26000.	82	12695	No
GOM_TRA_1PNPDE20040804_002546_000000512029_00116_12695_0002.N1	04-AUG-2004 00:25:46	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	12695	No
GOM_TRA_1PNPDE20040804_002931_000000512029_00117_12696_0003.N1	04-AUG-2004 00:29:31	Dark	51.000	157	The1Eri	2.9060	9300.0	102	12696	No
GOM_TRA_1PNPDE20040804_003447_000000572029_00117_12696_0004.N1	04-AUG-2004 00:34:47	Dark	56.500	9	Alp Eri	0.45300	24000.	113	12696	No
GOM_TRA_1PNPDE20040804_003626_000000402029_00117_12696_0005.N1	04-AUG-2004 00:36:26	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	12696	No
GOM_TRA_1PNPDE20040804_003950_000000592029_00117_12696_0006.N1	04-AUG-2004 00:39:50	Dark	58.500	84	Alp Phe	2.3970	4500.0	117	12696	No
GOM_TRA_1PNPDE20040804_004431_000000452029_00117_12696_0007.N1	04-AUG-2004 00:44:31	Twilight	45.000	45	Alp Pav	1.9400	26000.	90	12696	No
GOM_TRA_1PNPDE20040804_004832_000000762029_00117_12696_0008.N1	04-AUG-2004 00:48:32	Bright	75.500	18	24Alp PsA	1.1660	9700.0	151	12696	No
GOM_TRA_1PNPDE20040804_005250_000000452029_00117_12696_0009.N1	04-AUG-2004 00:52:50	Bright	44.500	103	38Zet Sgr	2.6000	9700.0	89	12696	No
GOM_TRA_1PNPDE20040804_005523_000000522029_00117_12696_0010.N1	04-AUG-2004 00:55:23	Bright	51.500	142	49Del Cap	2.8500	8900.0	103	12696	No
GOM_TRA_1PNPDE20040804_005923_000000522029_00117_12696_0011.N1	04-AUG-2004 00:59:23	Bright	51.500	154	22Bet Aqr	2.8990	5700.0	103	12696	No
GOM_TRA_1PNPDE20040804_010325_000000402029_00117_12696_0012.N1	04-AUG-2004 01:03:25	Bright	39.500	11	53Alp Aql	0.76500	8000.0	79	12696	No
GOM_TRA_1PNPDE20040804_010455_000000392029_00117_12696_0013.N1	04-AUG-2004 01:04:55	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	12696	No
GOM_TRA_1PNPDE20040804_011202_000000362029_00117_12696_0014.N1	04-AUG-2004 01:12:02	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	12696	No
GOM_TRA_1PNPDE20040804_011355_000000372029_00117_12696_0015.N1	04-AUG-2004 01:13:55	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	12696	No
GOM_TRA_1PNPDE20040804_011554_000000392029_00117_12696_0016.N1	04-AUG-2004 01:15:54	Bright	39.000	69	33Gam Dra	2.2310	3800.0	78	12696	No
GOM_TRA_1PNPDE20040804_012001_000000402029_00117_12696_0017.N1	04-AUG-2004 01:20:01	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	12696	No
GOM_TRA_1PNPDE20040804_012408_000000362029_00117_12696_0018.N1	04-AUG-2004 01:24:08	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	12696	No
GOM_TRA_1PNPDE20040804_012628_000000372029_00117_12696_0019.N1	04-AUG-2004 01:26:28	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	12696	No
GOM_TRA_1PNPDE20040804_012833_000000512029_00117_12696_0020.N1	04-AUG-2004 01:28:33	Bright	51.000	76	27Gam Cas	2.3000	30000.	102	12696	No
GOM_TRA_1PNPDE20040804_013511_000000492029_00117_12696_0021.N1	04-AUG-2004 01:35:11	Bright	49.000	160	23Gam Per	2.9300	4700.0	98	12696	No
GOM_TRA_1PNPDE20040804_013655_000000522029_00117_12696_0022.N1	04-AUG-2004 01:36:55	Bright	52.000	35	33Alp Per	1.7950	6250.0	104	12696	No
GOM_TRA_1PNPDE20040804_014016_000000622029_00117_12696_0023.N1	04-AUG-2004 01:40:16	Twilight	61.500	79	26Bet Per	2.3100	13100.	123	12696	No
GOM_TRA_1PNPDE20040804_014431_000000482029_00117_12696_0024.N1	04-AUG-2004 01:44:31	Twilight	48.000	28	12Bet Tau	1.6500	15200.	96	12696	No
GOM_TRA_1PNPDE20040804_014636_000000472029_00117_12696_0025.N1	04-AUG-2004 01:46:36	Twilight	46.500	176	23Zet Tau	3.0200	22000.	93	12696	No
GOM_TRA_1PNPDE20040804_014919_000000672029_00117_12696_0026.N1	04-AUG-2004 01:49:19	Twilight	67.000	13	87Alp Tau	0.86700	3800.0	134	12696	No
GOM_TRA_1PNPDE20040804_015429_000000432029_00117_12696_0000.N1	04-AUG-2004 01:54:29	Dark	42.500	125	44Iot Ori	2.7700	30000.	85	12696	Yes
GOM_TRA_1PNPDE20040804_015619_000000372029_00117_12696_0001.N1	04-AUG-2004 01:56:19	Dark	36.500	1	9Alp CMa	-1.4400	11000.	73	12696	No
GOM_TRA_1PNPDE20040804_015751_000000442029_00117_12696_0002.N1	04-AUG-2004 01:57:51	Dark	44.000	101	11Alp Lep	2.5820	7000.0	88	12696	No
GOM_TRA_1PNPDE20040804_015937_000000442029_00117_12696_0003.N1	04-AUG-2004 01:59:37	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	12696	No
GOM_TRA_1PNPDE20040804_020622_000000442029_00117_12696_0004.N1	04-AUG-2004 02:06:22	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	12696	No
GOM_TRA_1PNPDE20040804_021007_000000502029_00118_12697_0005.N1	04-AUG-2004 02:10:07	Dark	50.000	157	The1Eri	2.9060	9300.0	100	12697	No
GOM_TRA_1PNPDE20040804_021522_000000532029_00118_12697_0006.N1	04-AUG-2004 02:15:22	Dark	52.500	9	Alp Eri	0.45300	24000.	105	12697	No
GOM_TRA_1PNPDE20040804_021703_000000402029_00118_12697_0007.N1	04-AUG-2004 02:17:03	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	12697	No
GOM_TRA_1PNPDE20040804_022027_000000592029_00118_12697_0008.N1	04-AUG-2004 02:20:27	Dark	58.500	84	Alp Phe	2.3970	4500.0	117	12697	No
GOM_TRA_1PNPDE20040804_022508_000000422029_00118_12697_0009.N1	04-AUG-2004 02:25:08	Twilight	41.500	45	Alp Pav	1.9400	26000.	83	12697	No
GOM_TRA_1PNPDE20040804_022909_000000682029_00118_12697_0010.N1	04-AUG-2004 02:29:09	Bright	68.000	18	24Alp PsA	1.1660	9700.0	136	12697	No
GOM_TRA_1PNPDE20040804_023326_000000522029_00118_12697_0011.N1	04-AUG-2004 02:33:26	Bright	51.500	103	38Zet Sgr	2.6000	9700.0	103	12697	No
GOM_TRA_1PNPDE20040804_023559_000000532029_00118_12697_0012.N1	04-AUG-2004 02:35:59	Bright	52.500	142	49Del Cap	2.8500	8900.0	105	12697	No
GOM_TRA_1PNPDE20040804_023959_000000512029_00118_12697_0013.N1	04-AUG-2004 02:39:59	Bright	51.000	154	22Bet Aqr	2.8990	5700.0	102	12697	No
GOM_TRA_1PNPDE20040804_024401_000000402029_00118_12697_0014.N1	04-AUG-2004 02:44:01	Bright	39.500	11	53Alp Aql	0.76500	8000.0	79	12697	No
GOM_TRA_1PNPDE20040804_024532_000000392029_00118_12697_0015.N1	04-AUG-2004 02:45:32	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	12697	No
GOM_TRA_1PNPDE20040804_025236_000000382029_00118_12697_0016.N1	04-AUG-2004 02:52:36	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	12697	No
GOM_TRA_1PNPDE20040804_030909_000000502029_00118_12697_0000.N1	04-AUG-2004 03:09:09	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	12697	No
GOM_TRA_1PNPDE20040804_031546_000000502029_00118_12697_0001.N1	04-AUG-2004 03:15:46	Bright	50.000	160	23Gam Per	2.9300	4700.0	100	12697	No
GOM_TRA_1PNPDE20040804_031730_000000522029_00118_12697_0002.N1	04-AUG-2004 03:17:30	Bright	51.500	35	33Alp Per	1.7950	6250.0	103	12697	No
GOM_TRA_1PNPDE20040804_032052_000000672029_00118_12697_0003.N1	04-AUG-2004 03:20:52	Twilight	66.500	79	26Bet Per	2.3100	13100.	133	12697	No
GOM_TRA_1PNPDE20040804_032507_000000482029_00118_12697_0004.N1	04-AUG-2004 03:25:07	Twilight	48.000	28	12Bet Tau	1.6500	15200.	96	12697	No

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



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

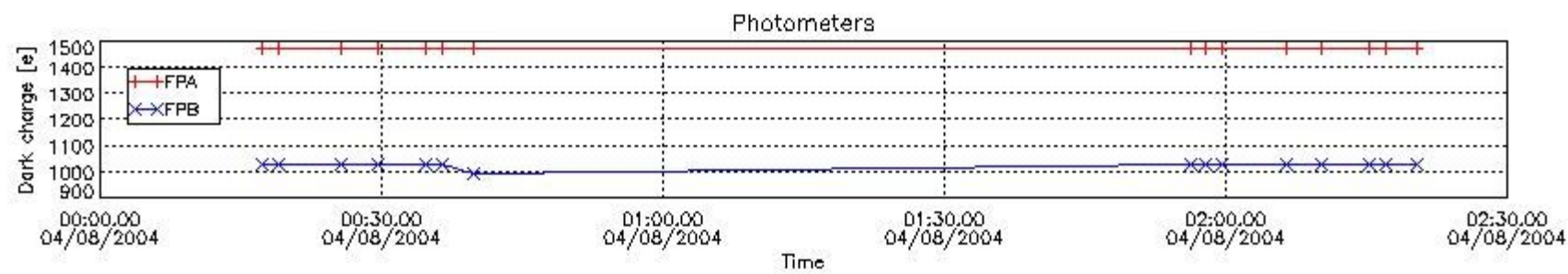
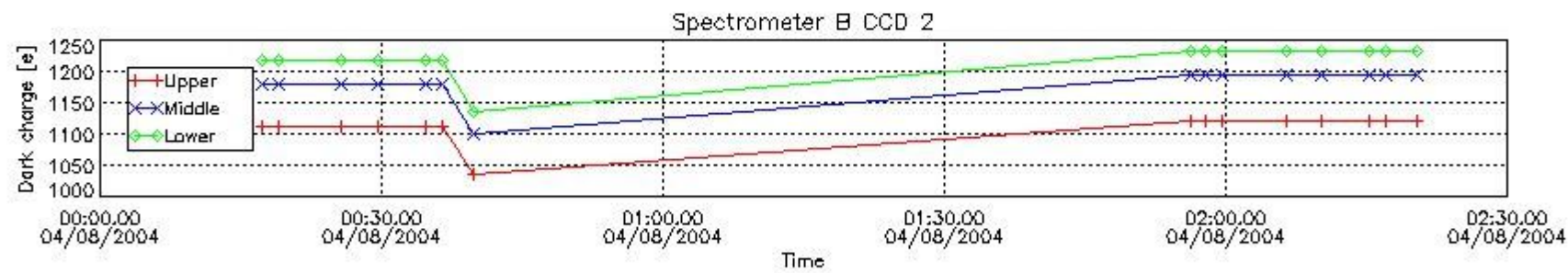
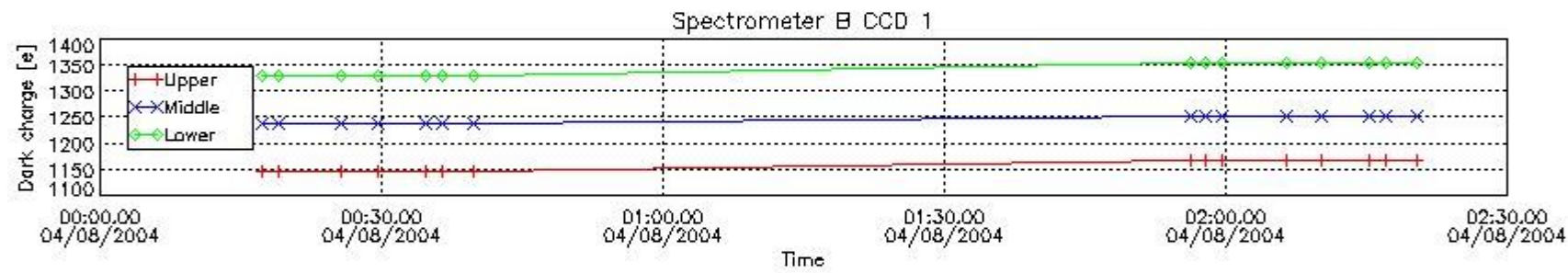
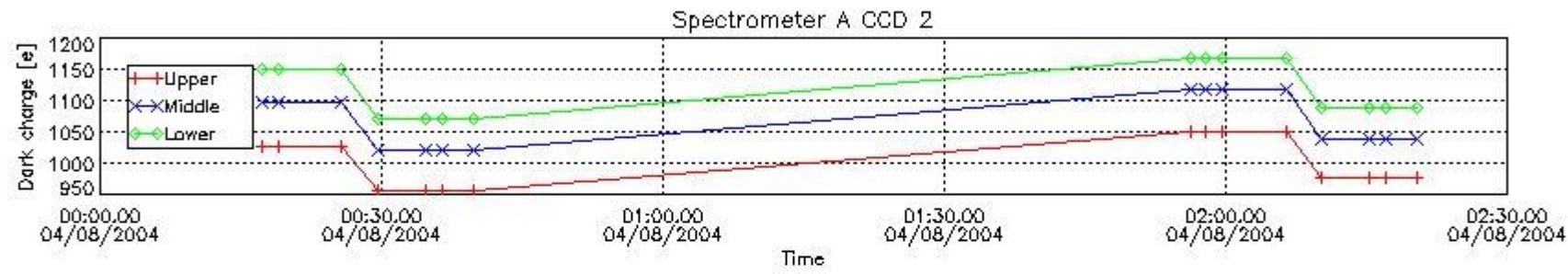
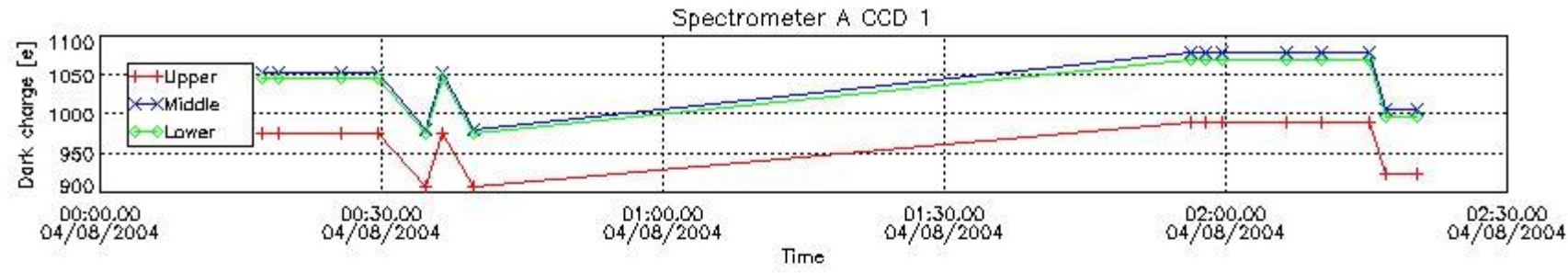
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





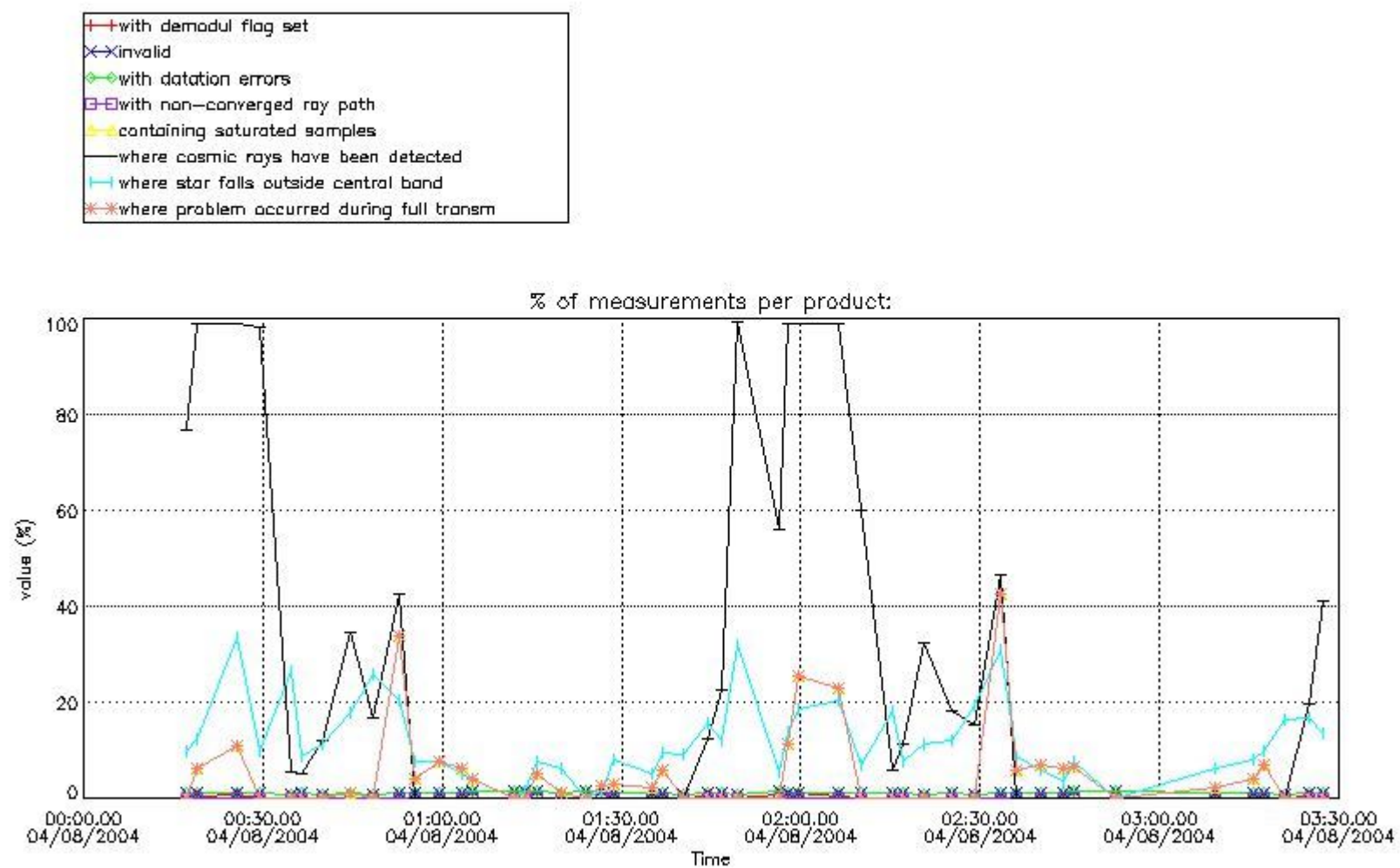
## 5. Demodulation flag and quality information monitoring

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:

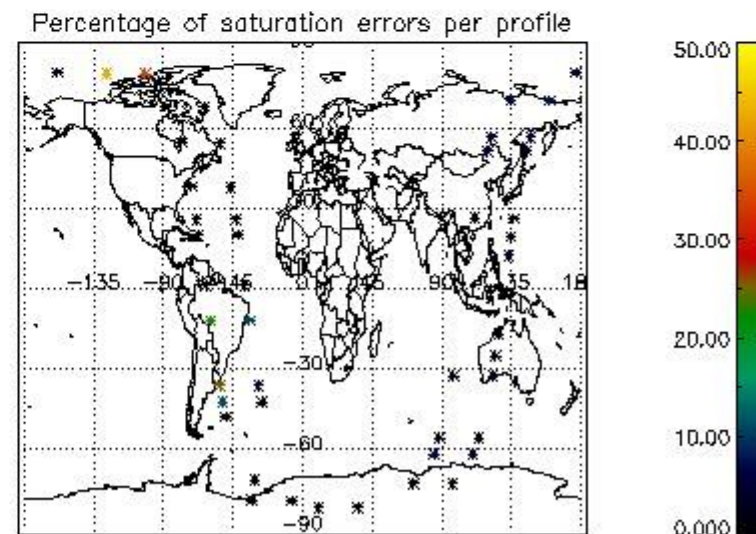
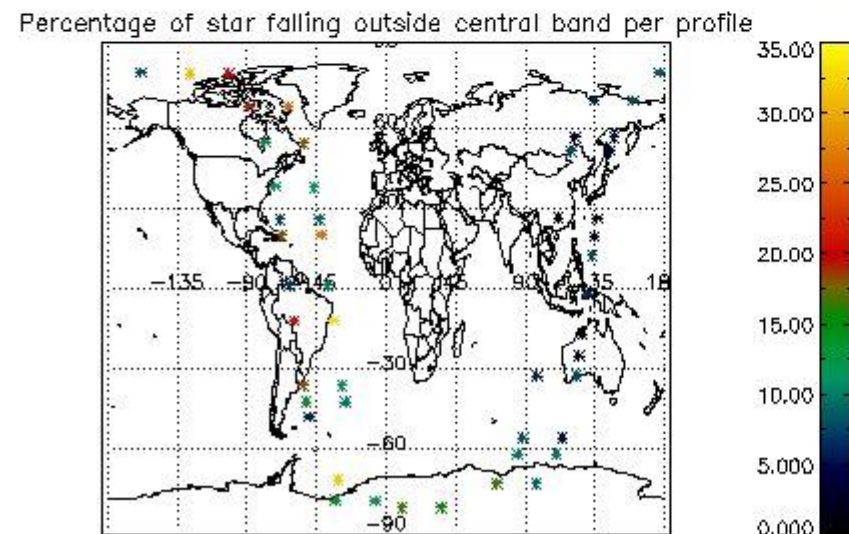
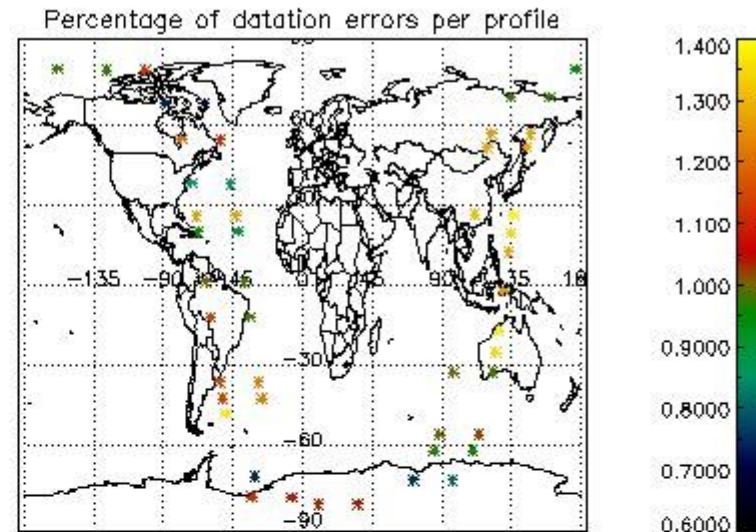
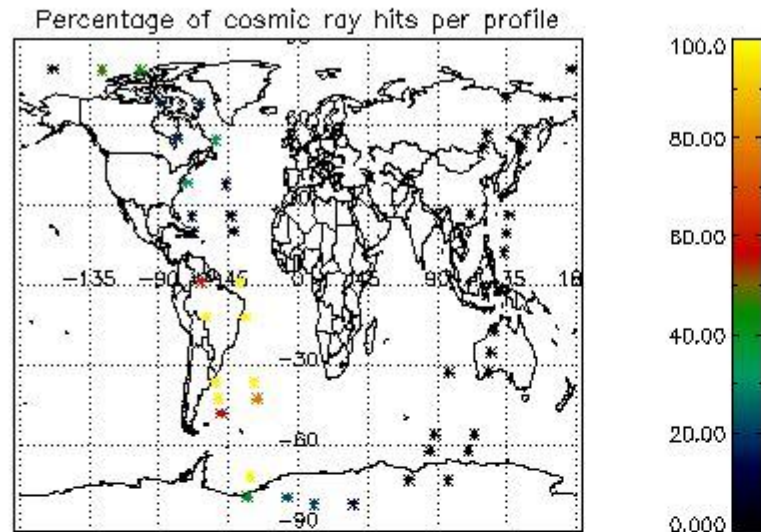
At least one measurement with demodulation flag set:	28.5714 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





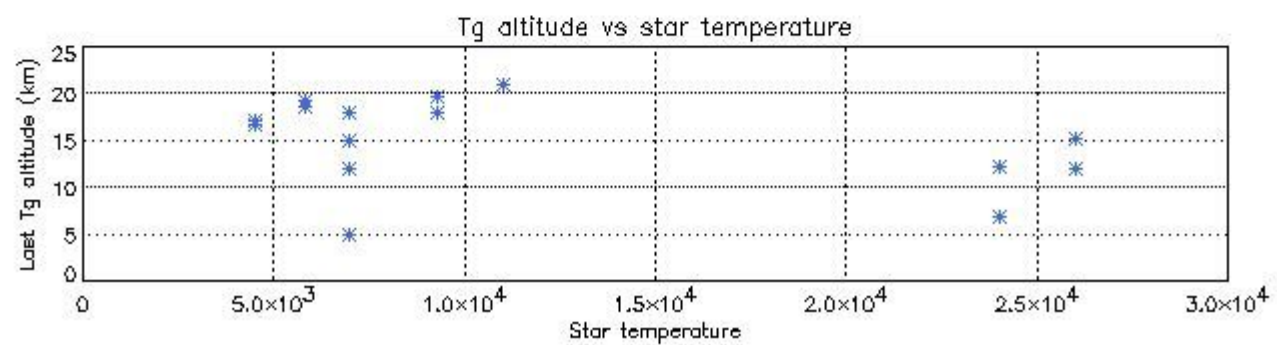
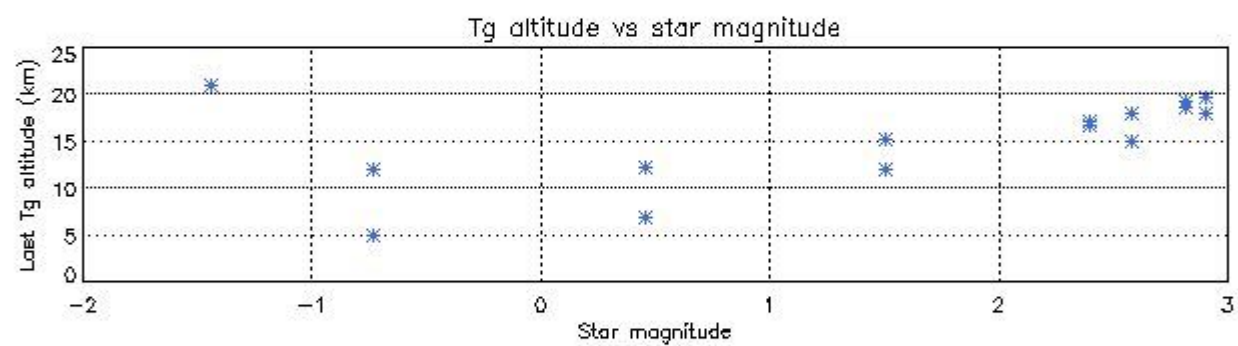
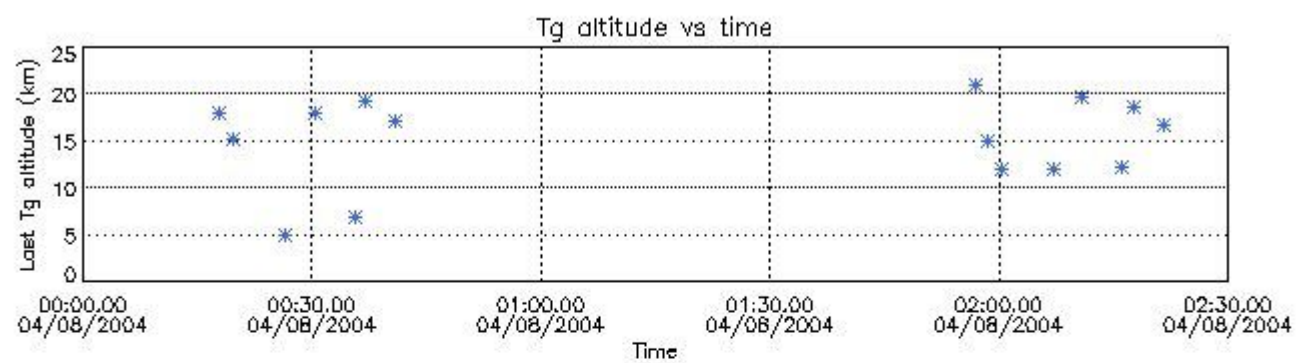
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.095	19.424	13.377
St. deviation:	4.6871	5.2763	3.5420
Maximum:	21.004	26.118	18.092
Minimum:	4.9383	5.2638	5.4982
Number of data:	15.000	25.000	9.0000

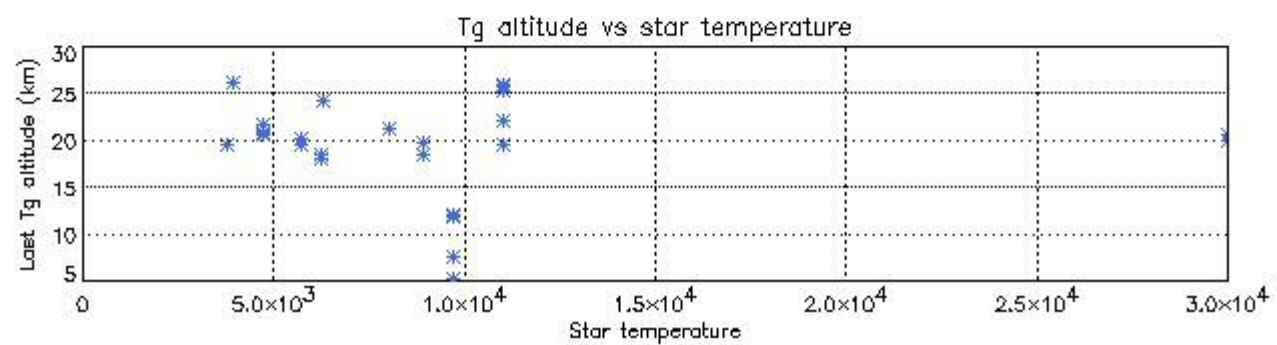
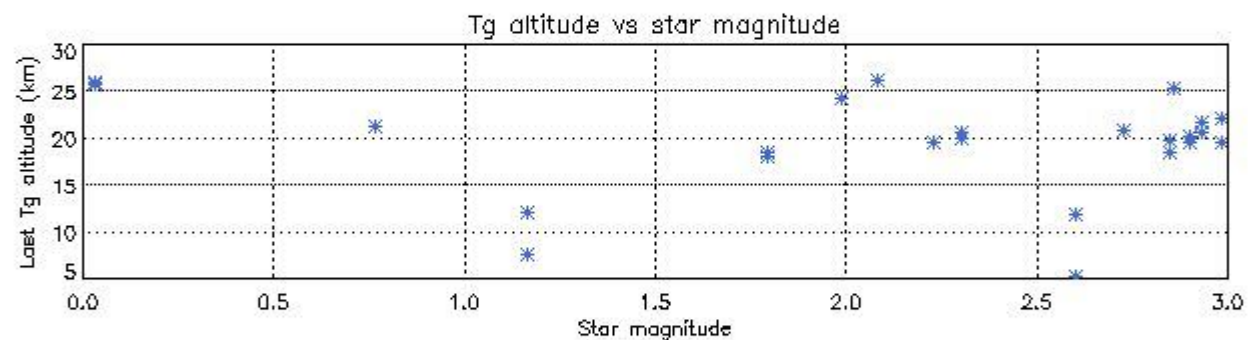
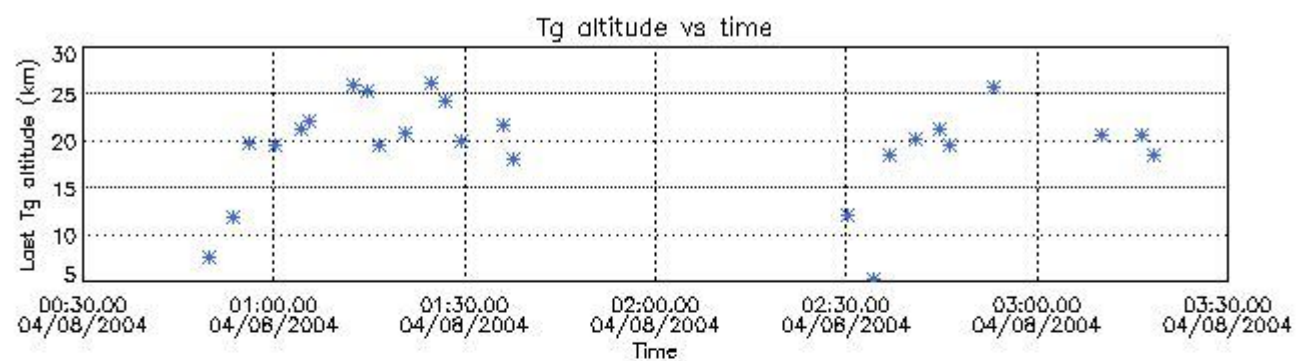
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

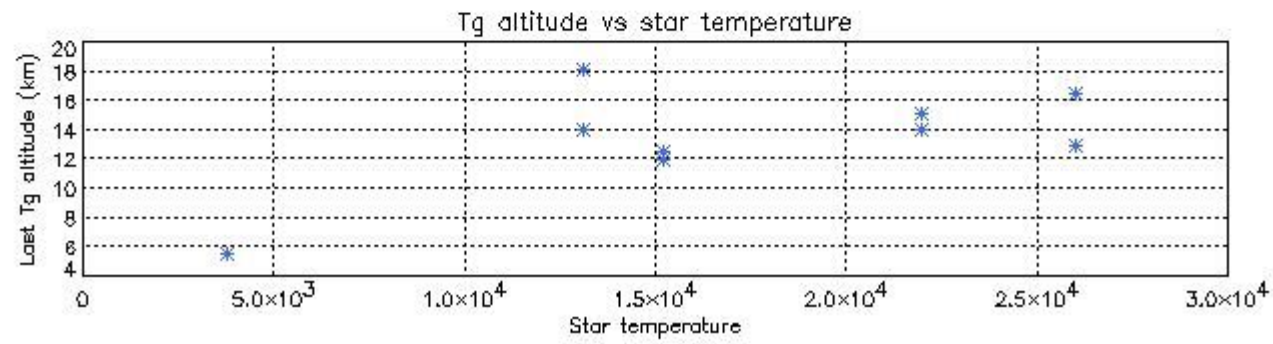
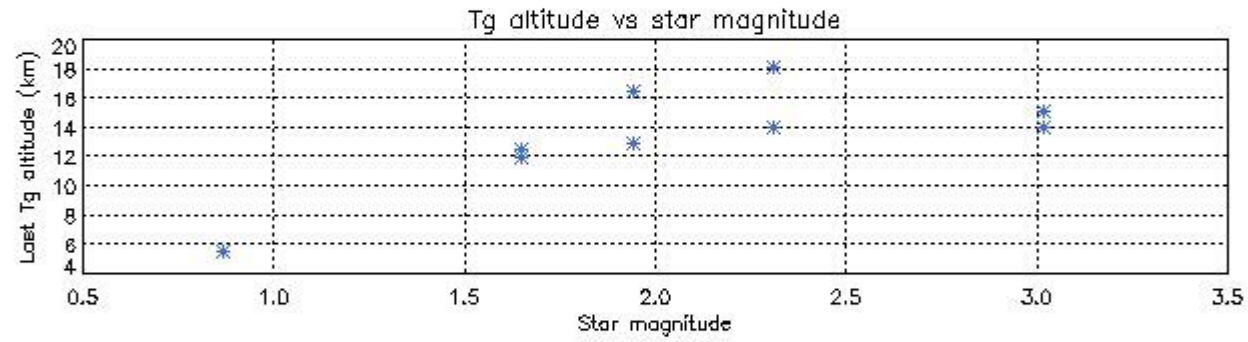
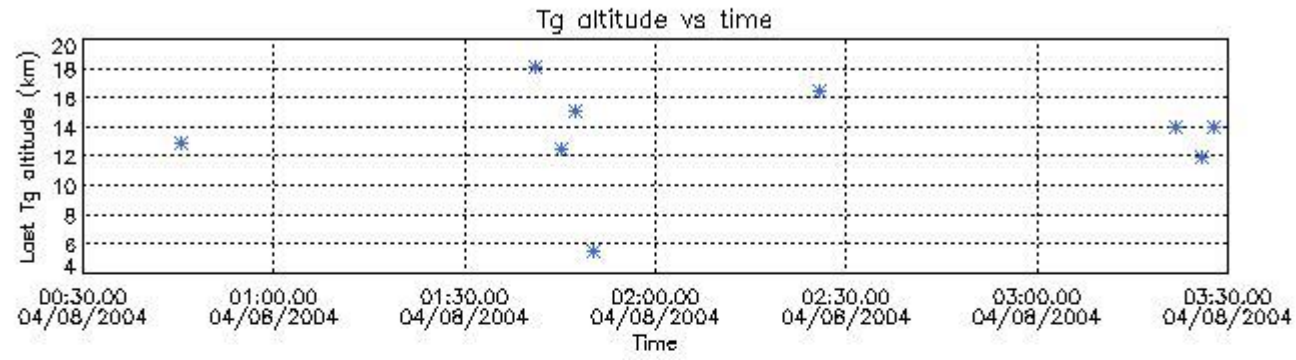
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



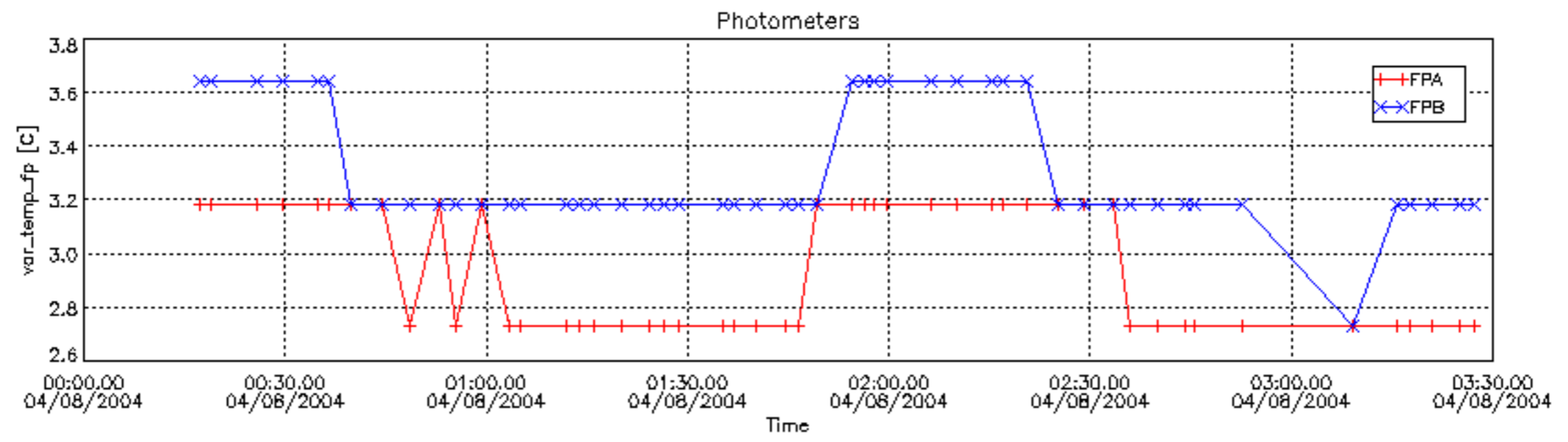
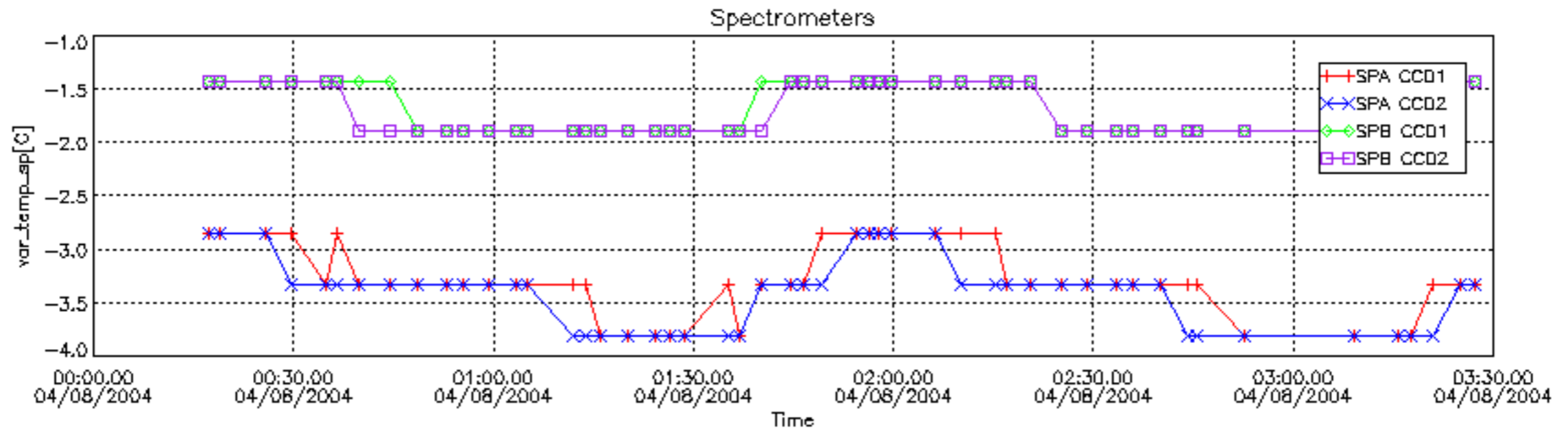
## Tangent altitude at which the star is lost

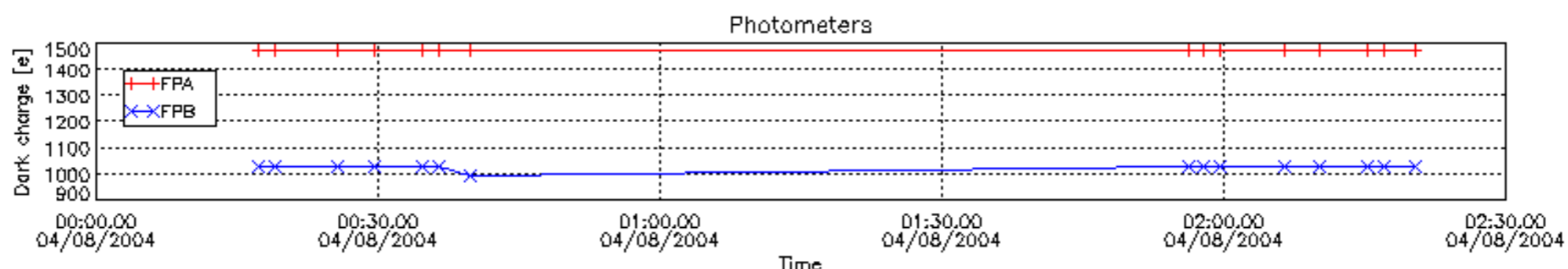
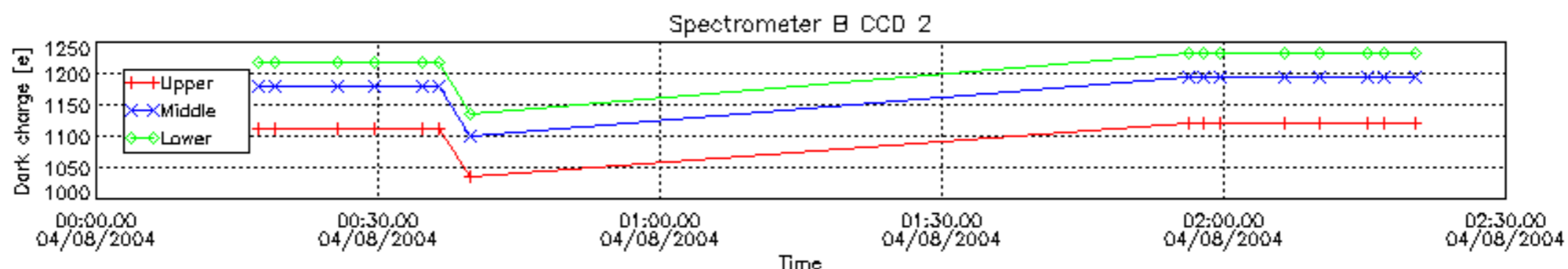
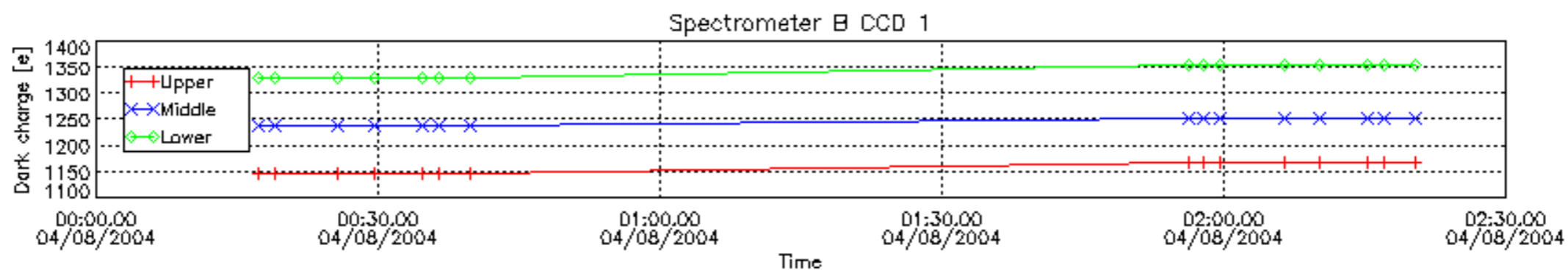
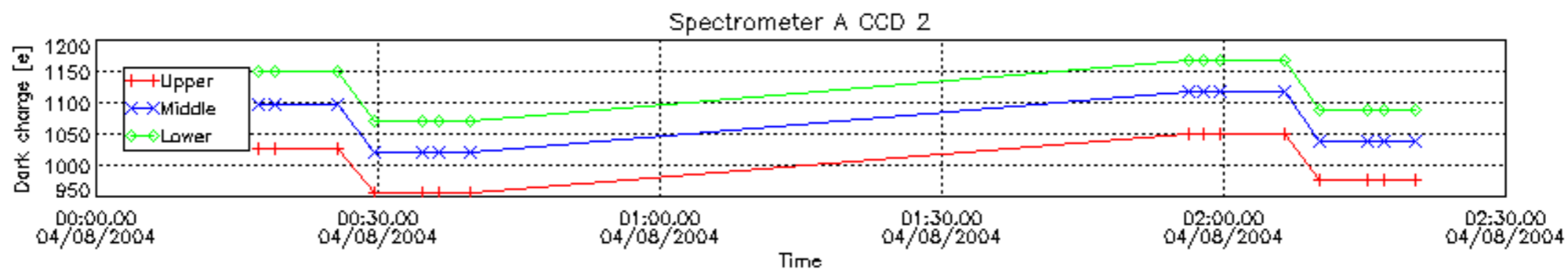
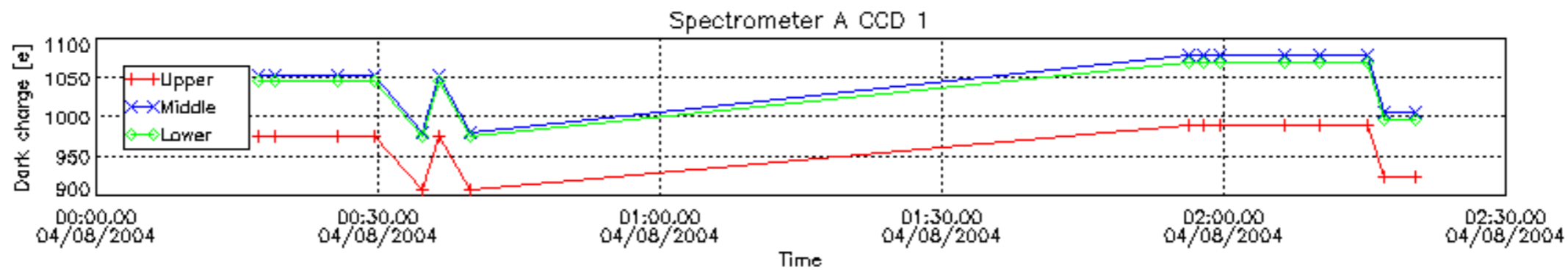


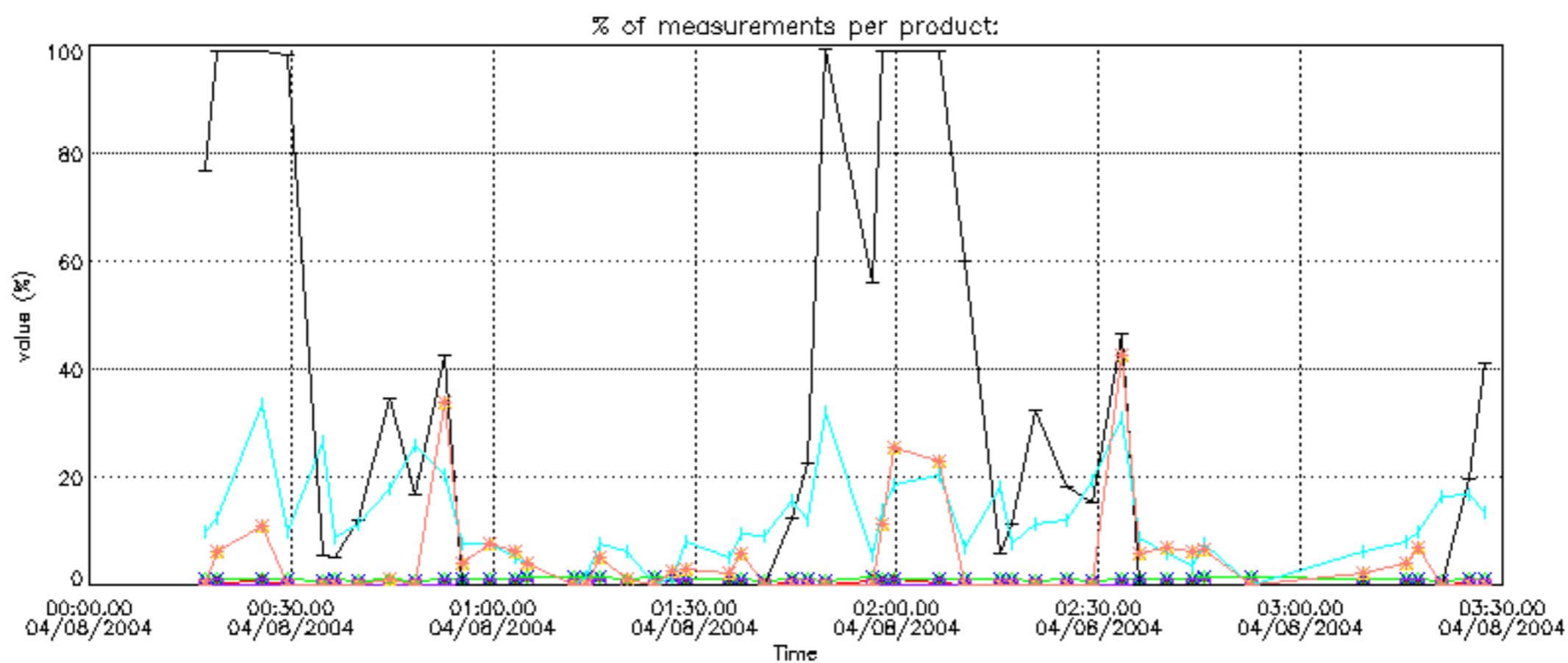
## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1460.2	1446.8	1461.8	1447.7
St. deviation:	4.6501	5.6433	6.7354	7.5497
Maximum:	1491.0	1487.0	1513.0	1500.0
Minimum:	1446.0	1437.0	1444.0	1435.0
Number of data:	18400.	18400.	30550.	30550.

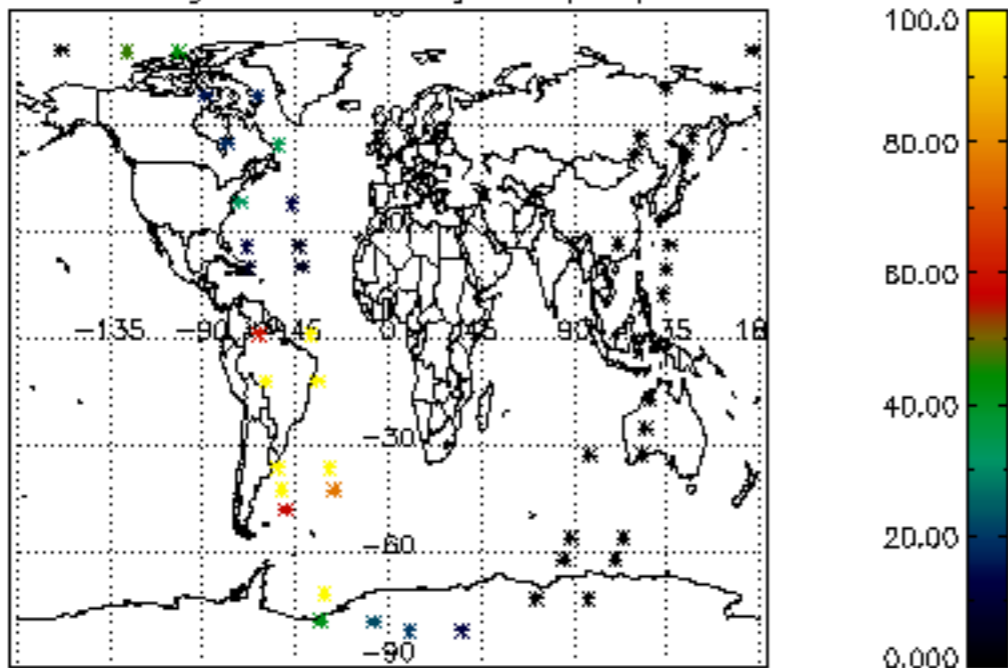




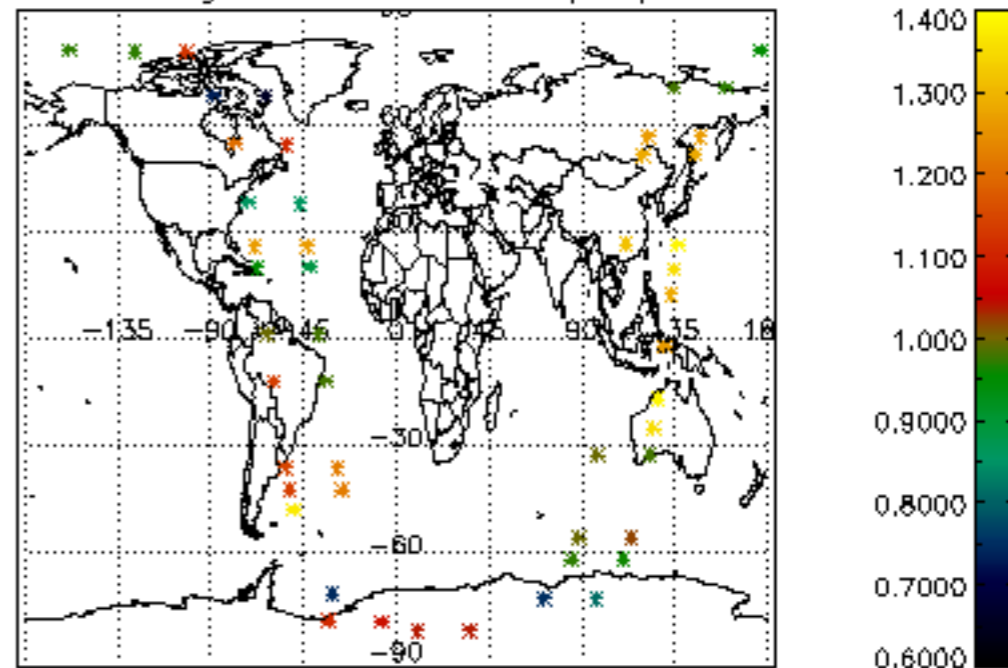




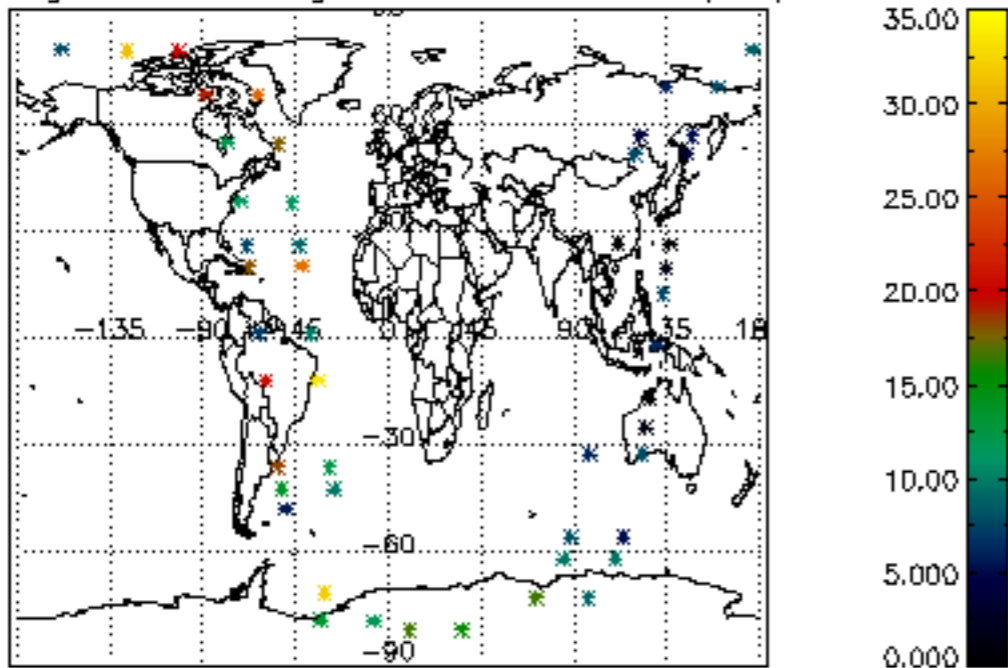
Percentage of cosmic ray hits per profile



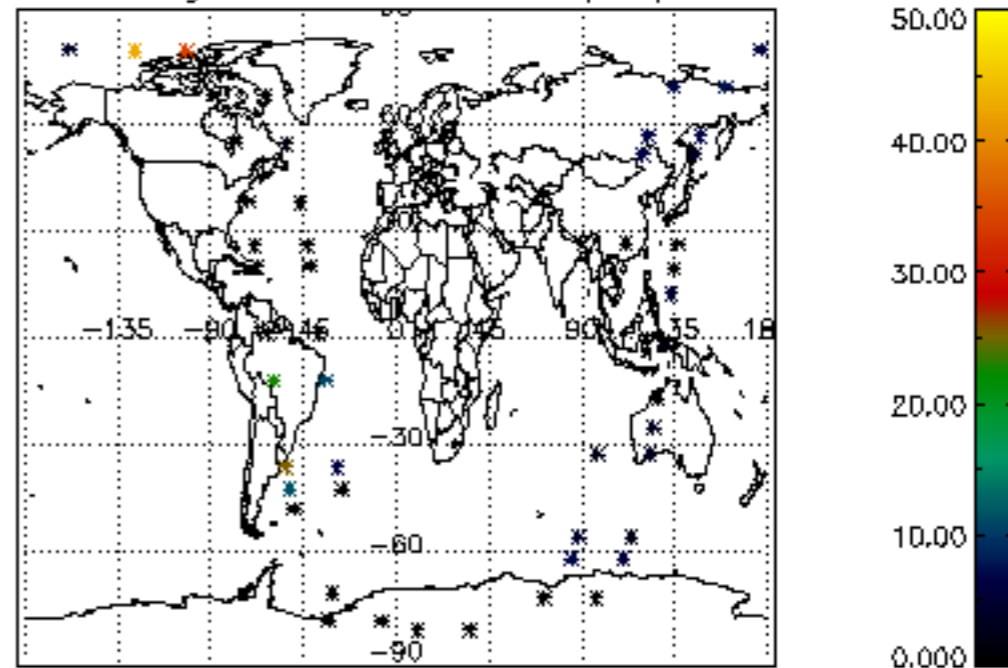
Percentage of datation errors per profile



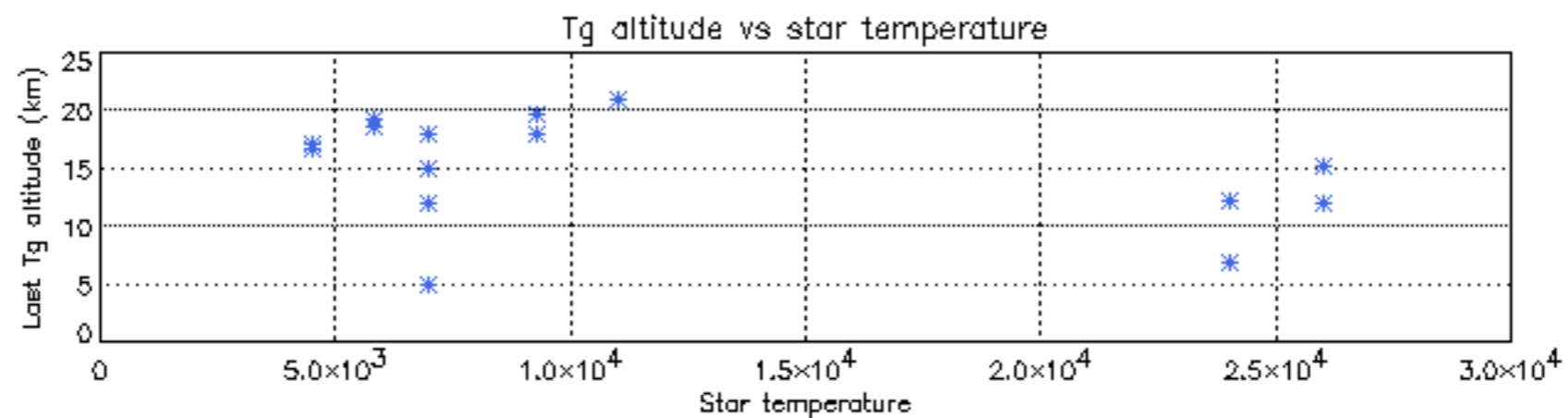
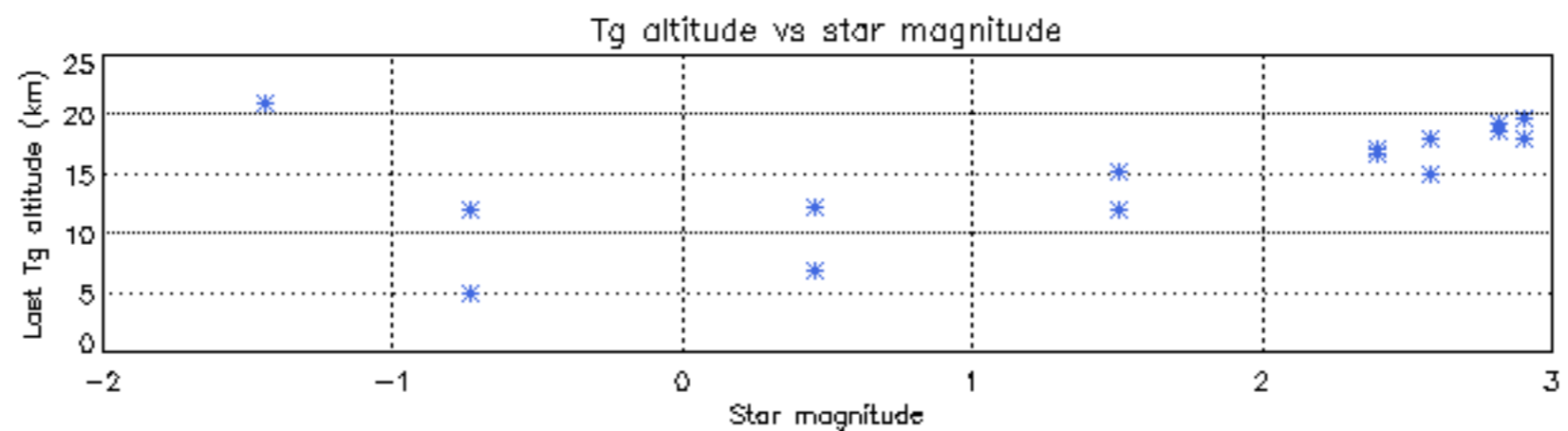
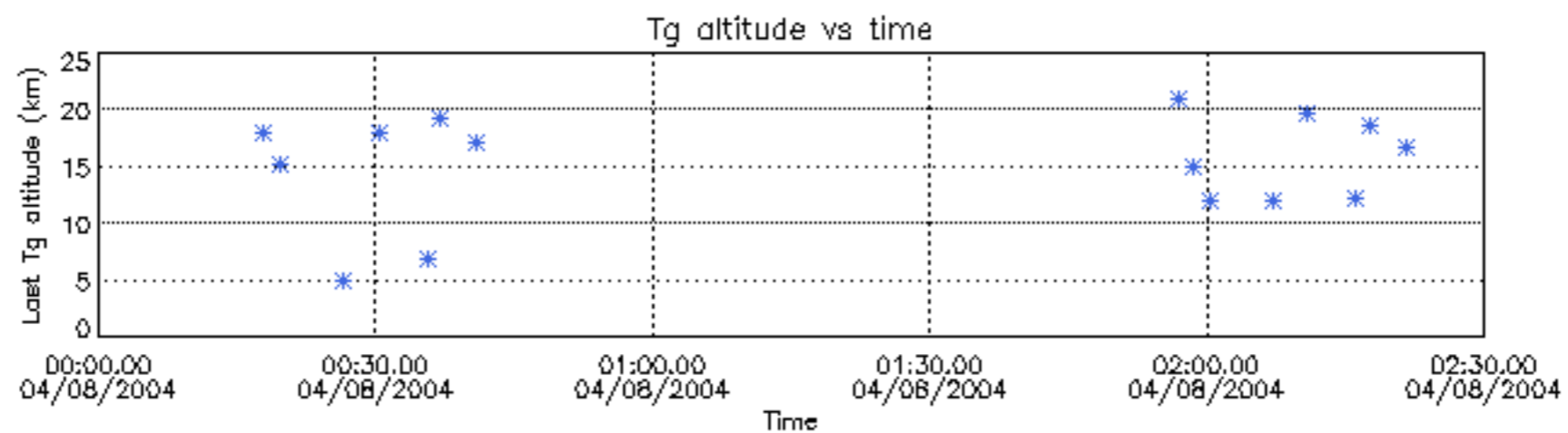
Percentage of star falling outside central band per profile



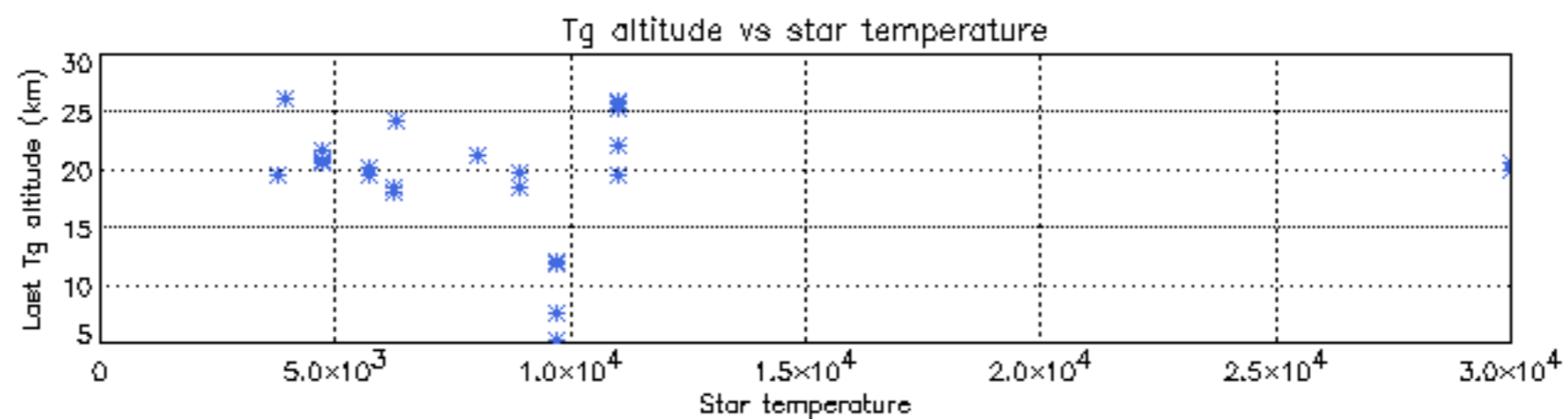
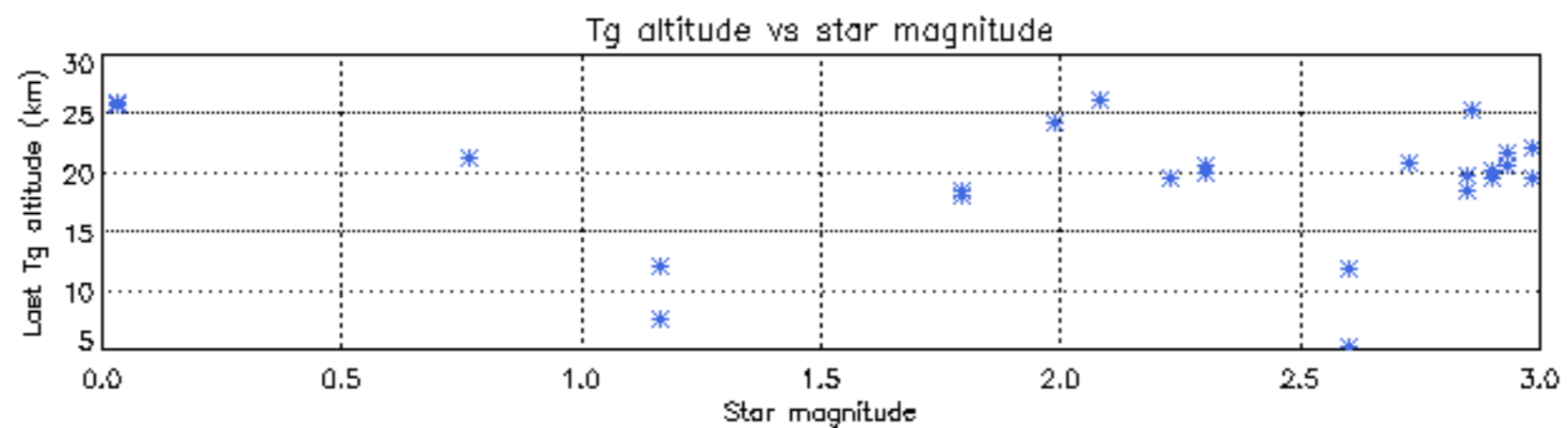
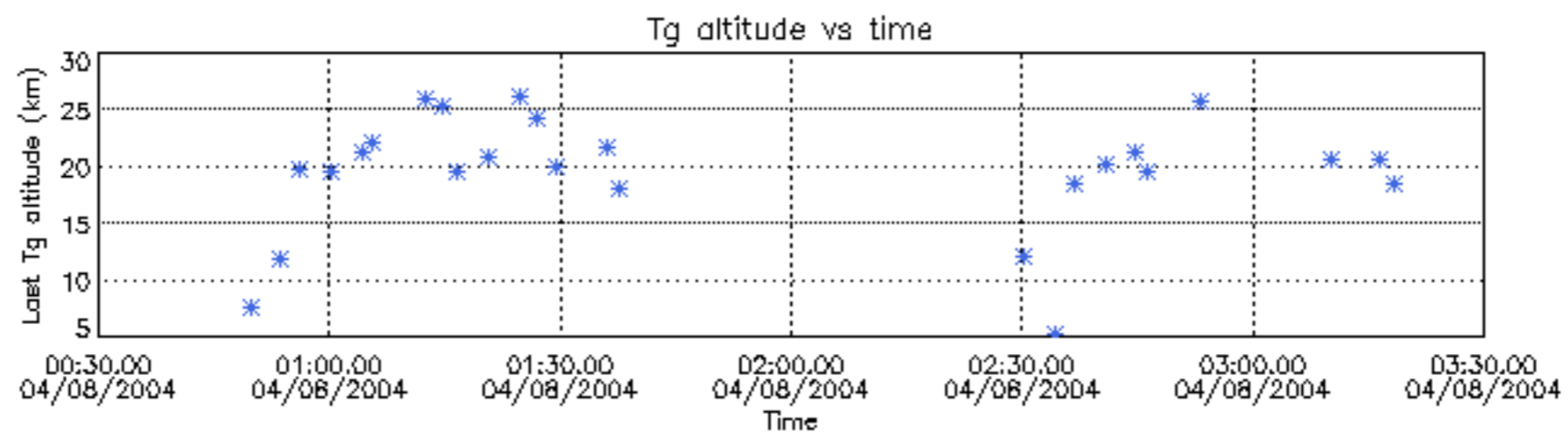
Percentage of saturation errors per profile



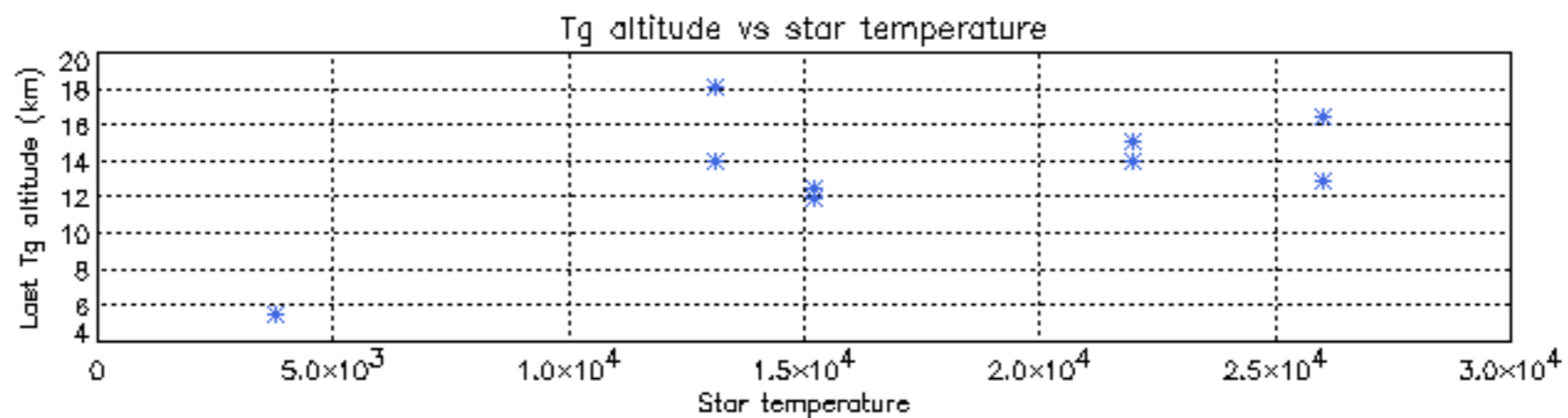
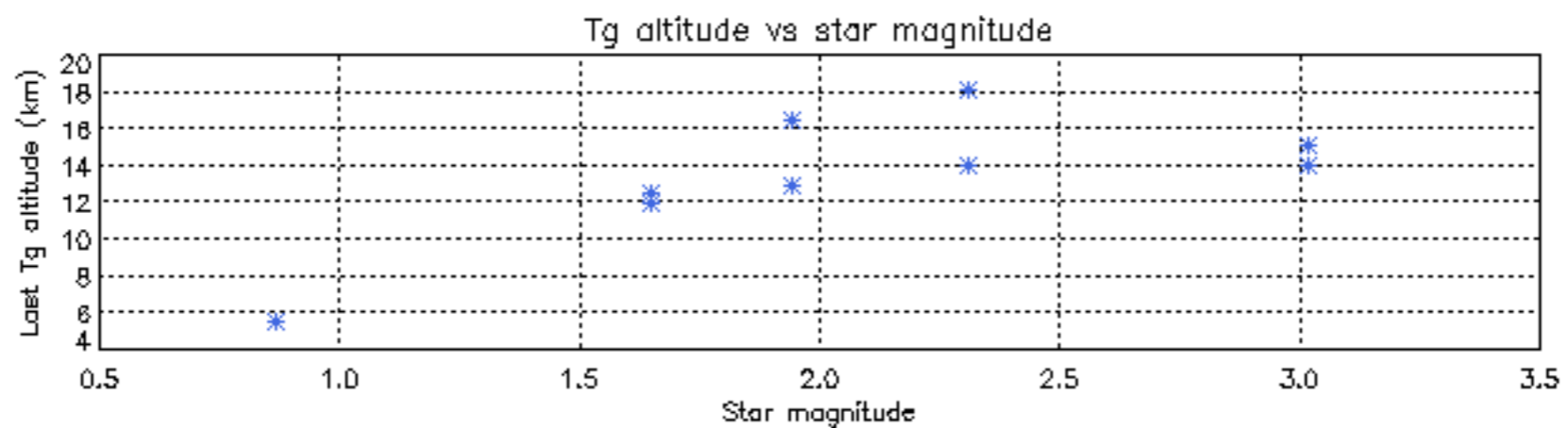
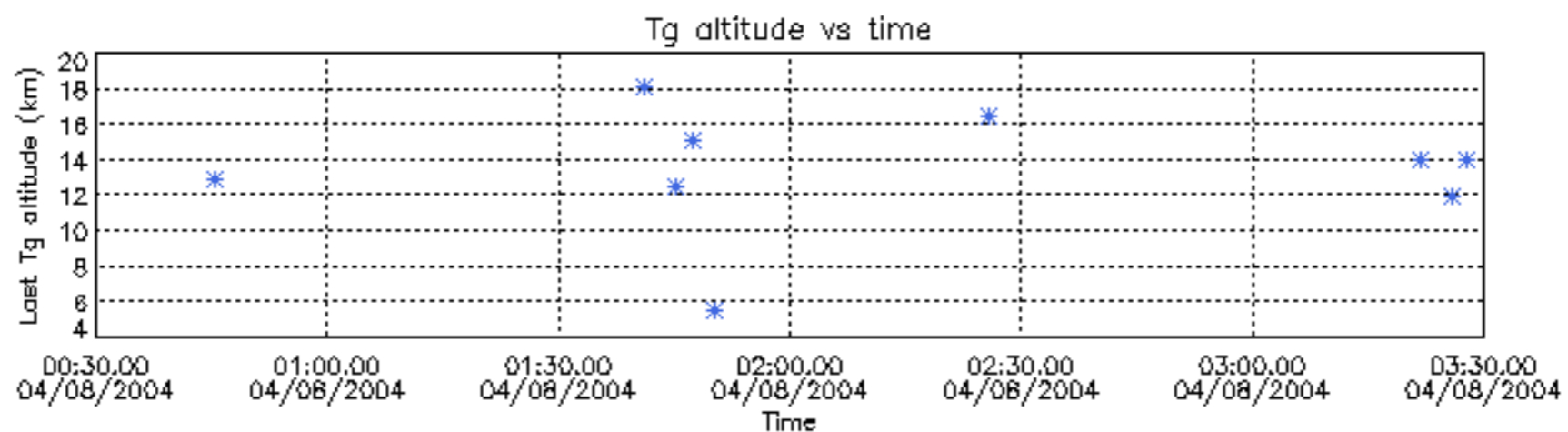
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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5; -3346.8; 02-AUG-2004 08:59:38; Bright; 39.5; 144; 18Del Cyg ; 2.86; 11000;occ; 79; 0;12672

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6;-3235.8; 02-AUG-2004 09:01:29; Bright; 39.0; 69; 33Gam Dra ; 2.23; 3800;occ; 78; 0;12672
7;-2992.1; 02-AUG-2004 09:05:33; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12672
8;-2744.5; 02-AUG-2004 09:09:40; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;12672
9;-2596.5; 02-AUG-2004 09:12:08; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;12672
10;-2456.3; 02-AUG-2004 09:14:28; Bright; 49.5; 76; 27Gam Cas ; 2.30; 30000;occ; 99; 0;12672
11;-2067.5; 02-AUG-2004 09:20:57; Bright; 50.5; 160; 23Gam Per ; 2.93; 4700;occ; 101; 0;12672
12;-1895.3; 02-AUG-2004 09:23:49; Bright; 85.0; 73; 57Gam1And ; 2.26; 13100;occ; 170; 0;12672
13;-1736.6; 02-AUG-2004 09:26:28; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12672
14;-1392.8; 02-AUG-2004 09:32:12; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;12672
15;-1238.0; 02-AUG-2004 09:34:47; Dark ; 59.5; 13; 87Alp Tau ; 0.87; 3800;occ; 119; 0;12672
16;-1119.8; 02-AUG-2004 09:36:45; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;12672
17;-1004.4; 02-AUG-2004 09:38:40; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;12672
18; -924.0; 02-AUG-2004 09:40:01; Dark ; 41.0; 125; 44Iot Ori ; 2.77; 30000;occ; 82; 0;12672
19; -811.7; 02-AUG-2004 09:41:53; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;12672
20; -724.4; 02-AUG-2004 09:43:20; Dark ; 43.0; 101; 11Alp Lep ; 2.58; 7000;occ; 86; 0;12672
21; -566.9; 02-AUG-2004 09:45:58; Dark ; 59.5; 165; 34Gam Eri ; 2.95; 3200;occ; 119; 0;12672
22; -285.4; 02-AUG-2004 09:50:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12672
23; -2.0; 02-AUG-2004 09:55:23; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;12672
24; 322.3; 02-AUG-2004 10:00:47; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;12673
25; 430.5; 02-AUG-2004 10:02:35; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;12673
26; 616.8; 02-AUG-2004 10:05:41; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;12673
27; 727.0; 02-AUG-2004 10:07:32; Dark ; 44.5; 148; Alp Tuc ; 2.88; 4100;occ; 89; 0;12673
28; 862.1; 02-AUG-2004 10:09:47; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;12673
29; 1147.4; 02-AUG-2004 10:14:32; Dark ; 67.5; 18; 24Alp PsA ; 1.17; 9700;occ; 135; 0;12673
30; 1416.3; 02-AUG-2004 10:19:01; Dark ; 52.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 104; 0;12673
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3;-3890.5; 02-AUG-2004 10:31:10; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;12673
4;-3465.1; 02-AUG-2004 10:38:15; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;12673
5;-3347.4; 02-AUG-2004 10:40:13; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;12673
6;-3235.8; 02-AUG-2004 10:42:05; Bright; 41.0; 69; 33Gam Dra ; 2.23; 3800;occ; 82; 0;12673
7;-2991.8; 02-AUG-2004 10:46:09; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;12673
8;-2745.6; 02-AUG-2004 10:50:15; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;12673
9;-2596.7; 02-AUG-2004 10:52:44; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;12673
10;-2456.9; 02-AUG-2004 10:55:04; Bright; 48.5; 76; 27Gam Cas ; 2.30; 30000;occ; 97; 0;12673
11;-2068.0; 02-AUG-2004 11:01:32; Bright; 51.5; 160; 23Gam Per ; 2.93; 4700;occ; 103; 0;12673
12;-1895.9; 02-AUG-2004 11:04:25; Bright; 88.5; 73; 57Gam1And ; 2.26; 13100;occ; 177; 0;12673
13;-1737.4; 02-AUG-2004 11:07:03; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12673
14;-1392.7; 02-AUG-2004 11:12:48; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;12673
15;-1237.9; 02-AUG-2004 11:15:23; Dark ; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;12673
16;-1119.6; 02-AUG-2004 11:17:21; Dark ; 47.5; 27; 24Gam Ori ; 1.64; 26000;occ; 95; 0;12673
17;-1003.9; 02-AUG-2004 11:19:17; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;12673
18; -924.0; 02-AUG-2004 11:20:36; Dark ; 42.0; 125; 44Iot Ori ; 2.77; 30000;occ; 84; 0;12673
19; -811.9; 02-AUG-2004 11:22:29; Dark ; 44.0; 1; 9Alp CMA ; -1.44; 11000;occ; 88; 0;12673
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21; -566.1; 02-AUG-2004 11:26:34; Dark ; 60.0; 165; 34Gam Eri ; 2.95; 3200;occ; 120; 0;12673
22; -284.7; 02-AUG-2004 11:31:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12673
23; -1.3; 02-AUG-2004 11:35:59; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;12673
24; 322.7; 02-AUG-2004 11:41:23; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;12674
25; 430.2; 02-AUG-2004 11:43:11; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12674
26; 617.6; 02-AUG-2004 11:46:18; Dark ; 59.5; 84; Alp Phe ; 2.40; 4500;occ; 119; 0;12674
27; 727.3; 02-AUG-2004 11:48:08; Dark ; 48.0; 148; Alp Tuc ; 2.88; 4100;occ; 96; 0;12674
28; 862.6; 02-AUG-2004 11:50:23; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;12674
29; 1147.7; 02-AUG-2004 11:55:08; Dark ; 69.5; 18; 24Alp PsA ; 1.17; 9700;occ; 139; 0;12674
30; 1416.0; 02-AUG-2004 11:59:36; Dark ; 44.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 88; 0;12674
31; 1570.4; 02-AUG-2004 12:02:11; Bright; 51.0; 142; 49Del Cap ; 2.85; 8900;occ; 102; 0;12674
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2;-3979.7; 02-AUG-2004 12:10:17; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;12674
3;-3890.5; 02-AUG-2004 12:11:46; Bright; 37.0; 168; 17Zet Aql ; 2.99; 11000;occ; 74; 0;12674
4;-3465.4; 02-AUG-2004 12:18:51; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;12674
5;-3347.7; 02-AUG-2004 12:20:49; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;12674
6;-3235.8; 02-AUG-2004 12:22:41; Bright; 40.0; 69; 33Gam Dra ; 2.23; 3800;occ; 80; 0;12674
7;-2991.9; 02-AUG-2004 12:26:44; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;12674
8;-2744.7; 02-AUG-2004 12:30:52; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;12674
9;-2596.9; 02-AUG-2004 12:33:19; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;12674

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10;-2457.8; 02-AUG-2004 12:35:39; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;12674  
 11;-2068.3; 02-AUG-2004 12:42:08; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 0;12674  
 12;-1896.2; 02-AUG-2004 12:45:00; Bright; 89.5; 73; 57Gam1And ; 2.26; 13100;occ; 179; 0;12674  
 13;-1738.5; 02-AUG-2004 12:47:38; Dark ; 255.0; 53; 43Bet And ; 2.05; 3300;occ; 510; 0;12674  
 14;-1392.8; 02-AUG-2004 12:53:24; Dark ; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;12674  
 15;-1237.6; 02-AUG-2004 12:55:59; Dark ; 65.0; 13; 87Alp Tau ; 0.87; 3800;occ; 130; 0;12674  
 16;-1119.8; 02-AUG-2004 12:57:57; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;12674  
 17;-1003.7; 02-AUG-2004 12:59:53; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;12674  
 18; -923.7; 02-AUG-2004 13:01:13; Dark ; 42.0; 125; 44Iot Ori ; 2.77; 30000;occ; 84; 0;12674  
 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!

1;-4465.9; 02-AUG-2004 13:42:46; Bright; 52.5; 142; 49Del Cap ; 2.85; 8900;occ; 105; 0;12675  
 2;-4219.5; 02-AUG-2004 13:46:53; Bright; 51.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 103; 0;12675  
 3;-3979.8; 02-AUG-2004 13:50:52; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;12675  
 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  
 10;-2596.7; 02-AUG-2004 14:13:56; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;12675  
 11;-2458.3; 02-AUG-2004 14:16:14; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;12675  
 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  
 14;-144770922.2; 01-JAN-2000 00:48:30; Bright; 87.0; 73; 57Gam1And ; 2.26; 13100;occ; 174; 0;12675  
 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  
 17;-144770262.1; 01-JAN-2000 00:59:30; Dark ; 65.0; 13; 87Alp Tau ; 0.87; 3800;occ; 130; 0;12675  
 18;-144770143.1; 01-JAN-2000 01:01:29; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;12675  
 19;-144770028.3; 01-JAN-2000 01:03:24; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;12675  
 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  
 22;-144769748.2; 01-JAN-2000 01:08:04; Dark ; 44.0; 101; 11Alp Lep ; 2.58; 7000;occ; 88; 0;12675  
 23;-144769601.1; 01-JAN-2000 01:10:31; Dark ; 39.5; 177; 1Zet CMA ; 3.02; 26000;occ; 79; 0;12675  
 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  
 32;-144767876.1; 01-JAN-2000 01:39:16; Dark ; 68.0; 18; 24Alp PsA ; 1.17; 9700;occ; 136; 36;12675  
 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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1;-4620.6; 02-AUG-2004 15:20:48; Dark ; 46.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 92; 0;12676  
 2;-4465.4; 02-AUG-2004 15:23:23; Bright; 53.5; 142; 49Del Cap ; 2.85; 8900;occ; 107; 0;12676  
 3;-4219.2; 02-AUG-2004 15:27:29; Bright; 53.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 106; 0;12676  
 4;-3980.2; 02-AUG-2004 15:31:28; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;12676  
 5;-3892.0; 02-AUG-2004 15:32:56; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;12676  
 6;-3465.5; 02-AUG-2004 15:40:03; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;12676  
 7;-3348.0; 02-AUG-2004 15:42:00; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;12676  
 8;-3235.7; 02-AUG-2004 15:43:53; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 0;12676  
 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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10;-2744.2; 02-AUG-2004 15:52:04; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 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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16; 2150.2; 05-AUG-2004 22:21:11; Bright; 35.5; 168; 17Zet Aql ; 2.99; 11000;occ; 71; 0;12723
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24; 3948.7; 05-AUG-2004 22:51:09; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;12723
25; 4055.1; 05-AUG-2004 22:52:56; Bright; 51.0; 35; 33Alp Per ; 1.79; 6250;occ; 102; 0;12723
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3; -4226.9; 05-AUG-2004 15:33:06; Bright; 51.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 102; 0;12719
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14; -1979.4; 05-AUG-2004 16:10:33; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;12719
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4; -201.0; 06-AUG-2004 01:03:11; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;12724
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6; 356.7; 06-AUG-2004 01:12:29; Dark ; 56.5; 9; Alp Eri ; 0.45; 24000;occ; 113; 0;12725
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4;-3949.8; 23-AUG-2004 12:50:59; Bright; 41.0; 61; 8Eps Peg ; 2.10; 3900;occ; 82; 0;12975
5;-3707.3; 23-AUG-2004 12:55:01; Bright; 56.5; 90; 54Alp Peg ; 2.49; 11000;occ; 113; 0;12975
6;-3549.5; 23-AUG-2004 12:57:39; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;12975
7;-3445.2; 23-AUG-2004 12:59:23; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;12975
8;-3357.4; 23-AUG-2004 13:00:51; Bright; 41.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 82; 0;12975
9;-3046.3; 23-AUG-2004 13:06:02; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;12975
10;-2814.4; 23-AUG-2004 13:09:54; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;12975
11;-2654.0; 23-AUG-2004 13:12:35; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;12975
12;-2257.9; 23-AUG-2004 13:19:11; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;12975
13;-2107.6; 23-AUG-2004 13:21:41; Bright; 62.5; 35; 33Alp Per ; 1.79; 6250;occ; 125; 0;12975
14;-1809.6; 23-AUG-2004 13:26:39; Dark ; 255.0; 173; 4Bet Tri ; 3.00; 8900;occ; 510; 0;12975
15;-1460.4; 23-AUG-2004 13:32:28; Dark ; 59.0; 28; 12Bet Tau ; 1.65; 15200;occ; 118; 0;12975

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16;	-1286.0;	23-AUG-2004	13:35:23;	Dark	;	42.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	84;	0;	12975
17;	-1194.6;	23-AUG-2004	13:36:54;	Dark	;	38.5;	153;	3Bet	CMi	;	2.89;	13100;	occ;	77;	0;	12975
18;	-1049.9;	23-AUG-2004	13:39:19;	Dark	;	60.5;	14;	58Alp	Ori	;	0.87;	3000;	occ;	121;	0;	12975
19;	-953.0;	23-AUG-2004	13:40:56;	Dark	;	63.5;	27;	24Gam	Ori	;	1.64;	26000;	occ;	127;	0;	12975
20;	-836.6;	23-AUG-2004	13:42:52;	Dark	;	56.5;	30;	46Eps	Ori	;	1.69;	30000;	occ;	113;	0;	12975
21;	-725.2;	23-AUG-2004	13:44:43;	Dark	;	51.0;	1;	9Alp	CMa	;	-1.44;	11000;	occ;	102;	0;	12975
22;	-631.1;	23-AUG-2004	13:46:18;	Dark	;	63.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	126;	0;	12975
23;	-422.9;	23-AUG-2004	13:49:46;	Dark	;	42.0;	70;	Zet	Pup	;	2.25;	39000;	occ;	84;	0;	12975
24;	-312.8;	23-AUG-2004	13:51:36;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	12975
25;	-139.5;	23-AUG-2004	13:54:29;	Dark	;	53.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	106;	0;	12975
26;	341.8;	23-AUG-2004	14:02:30;	Dark	;	55.5;	157;	The1Eri		;	2.91;	9300;	occ;	111;	0;	12976
27;	528.5;	23-AUG-2004	14:05:37;	Dark	;	48.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	96;	0;	12976
28;	832.7;	23-AUG-2004	14:10:41;	Dark	;	41.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	83;	0;	12976
29;	971.1;	23-AUG-2004	14:13:00;	Dark	;	43.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	87;	0;	12976
30;	1050.8;	23-AUG-2004	14:14:19;	Dark	;	42.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	85;	0;	12976
31;	1292.1;	23-AUG-2004	14:18:21;	Dark	;	53.0;	18;	24Alp	PsA	;	1.17;	9700;	occ;	106;	0;	12976