

# GOMOS Daily Report 18-MAY-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	19MAY2004 03:42:02
Data source version	GOMOS/4.02
Start time of products	18-MAY-2004 (18MAY2004 00:00:00)
Stop time of products	19-MAY-2004 (19MAY2004 00:00:00)

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

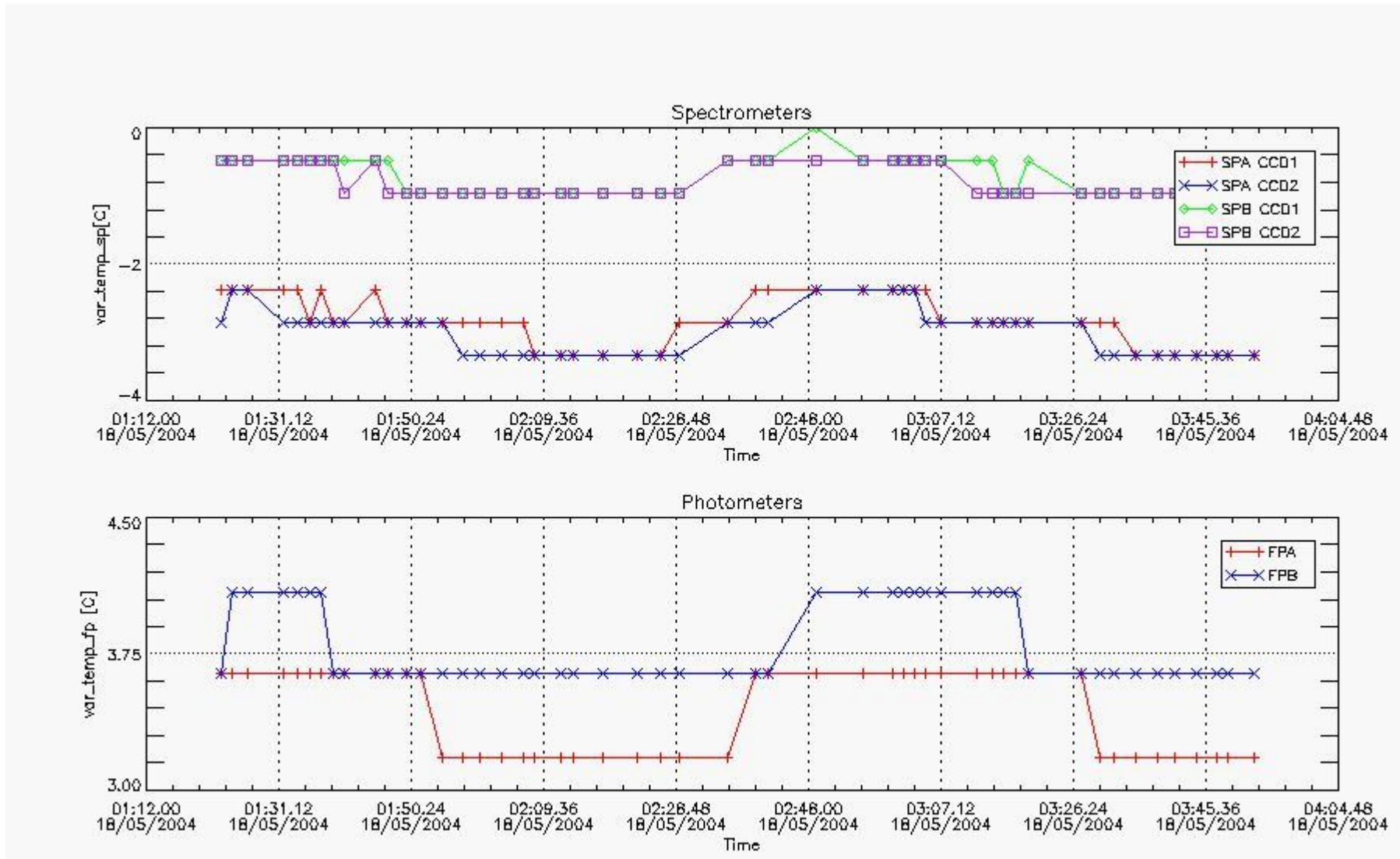
## 2. Summary of products arrived in PCF

### 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_1PNPDE20040518_012246_000000432027_00003_11580_0000.N1	18-MAY-2004 01:22:46	Dark	42.500	148	Alp Tuc	2.8780	4100.0	85	11580	No
GOM_TRA_1PNPDE20040518_012424_000000392027_00003_11580_0001.N1	18-MAY-2004 01:24:24	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	11580	No
GOM_TRA_1PNPDE20040518_012641_000000452027_00003_11580_0002.N1	18-MAY-2004 01:26:41	Dark	44.500	45	Alp Pav	1.9400	26000.	89	11580	No
GOM_TRA_1PNPDE20040518_013147_000000422027_00003_11580_0003.N1	18-MAY-2004 01:31:47	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	11580	No
GOM_TRA_1PNPDE20040518_013357_000000422027_00003_11580_0004.N1	18-MAY-2004 01:33:57	Twilight	42.000	134	Bet TrA	2.8100	6600.0	84	11580	No
GOM_TRA_1PNPDE20040518_013536_000000462027_00003_11580_0005.N1	18-MAY-2004 01:35:36	Twilight	46.000	4	Alp1Cen	-0.010000	5800.0	92	11580	No
GOM_TRA_1PNPDE20040518_013720_000000532027_00003_11580_0006.N1	18-MAY-2004 01:37:20	Bright	53.000	85	Kap Sco	2.4070	28000.	106	11580	No
GOM_TRA_1PNPDE20040518_013911_000000412027_00003_11580_0007.N1	18-MAY-2004 01:39:11	Bright	41.000	78	Alp Lup	2.3040	28000.	82	11580	No
GOM_TRA_1PNPDE20040518_014041_000000422027_00003_11580_0008.N1	18-MAY-2004 01:40:41	Bright	42.000	81	Eta Cen	2.3560	28000.	84	11580	No
GOM_TRA_1PNPDE20040518_014511_000000472027_00003_11580_0000.N1	18-MAY-2004 01:45:11	Bright	47.000	80	7Del Sco	2.3160	30000.	94	11580	Yes
GOM_TRA_1PNPDE20040518_014703_000000612027_00003_11580_0001.N1	18-MAY-2004 01:47:03	Bright	61.000	86	35Eta Oph	2.4300	10200.	122	11580	No
GOM_TRA_1PNPDE20040518_014939_000000412027_00003_11580_0002.N1	18-MAY-2004 01:49:39	Bright	40.500	104	27Bet Lib	2.6140	13100.	81	11580	No
GOM_TRA_1PNPDE20040518_015140_000000502027_00003_11580_0003.N1	18-MAY-2004 01:51:40	Bright	50.000	120	1Del Oph	2.7340	3200.0	100	11580	No
GOM_TRA_1PNPDE20040518_015448_000000442027_00003_11580_0004.N1	18-MAY-2004 01:54:48	Bright	44.000	102	24Alp Ser	2.6000	4250.0	88	11580	No
GOM_TRA_1PNPDE20040518_015755_000000382027_00003_11580_0005.N1	18-MAY-2004 01:57:55	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	11580	No
GOM_TRA_1PNPDE20040518_020026_000000402027_00003_11580_0006.N1	18-MAY-2004 02:00:26	Bright	40.000	83		2.3780	11000.	80	11580	No
GOM_TRA_1PNPDE20040518_020336_000000372027_00003_11580_0007.N1	18-MAY-2004 02:03:36	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11580	No
GOM_TRA_1PNPDE20040518_020636_000000382027_00003_11580_0008.N1	18-MAY-2004 02:06:36	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	11580	No
GOM_TRA_1PNPDE20040518_020814_000000382027_00003_11580_0009.N1	18-MAY-2004 02:08:14	Bright	37.500	55	79Zet UMa	2.0600	10200.	75	11580	No
GOM_TRA_1PNPDE20040518_021203_000000352027_00003_11580_0010.N1	18-MAY-2004 02:12:03	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	11580	No
GOM_TRA_1PNPDE20040518_021349_000000392027_00003_11580_0011.N1	18-MAY-2004 02:13:49	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	11580	No
GOM_TRA_1PNPDE20040518_021816_000000382027_00003_11580_0012.N1	18-MAY-2004 02:18:16	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	11580	No
GOM_TRA_1PNPDE20040518_022302_000000472027_00003_11580_0013.N1	18-MAY-2004 02:23:02	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	11580	No
GOM_TRA_1PNPDE20040518_022628_000000372027_00003_11580_0014.N1	18-MAY-2004 02:26:28	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	11580	No
GOM_TRA_1PNPDE20040518_022909_000001092027_00003_11580_0015.N1	18-MAY-2004 02:29:09	Bright	109.00	66	37Gam Cyg	2.2080	5900.0	218	11580	No
GOM_TRA_1PNPDE20040518_023611_000000482027_00003_11580_0016.N1	18-MAY-2004 02:36:11	Twilight	47.500	58	21Alp And	2.0730	11000.	95	11580	No
GOM_TRA_1PNPDE20040518_024025_000000452027_00003_11580_0017.N1	18-MAY-2004 02:40:25	Twilight	44.500	140	88Gam Peg	2.8340	26000.	89	11580	No
GOM_TRA_1PNPDE20040518_024212_000000602027_00003_11580_0018.N1	18-MAY-2004 02:42:12	Dark	60.000	90	54Alp Peg	2.4870	11000.	120	11580	No
GOM_TRA_1PNPDE20040518_024910_000000502027_00003_11580_0019.N1	18-MAY-2004 02:49:10	Dark	49.500	52	16Bet Cet	2.0370	4500.0	99	11580	No
GOM_TRA_1PNPDE20040518_025559_000000542027_00003_11580_0020.N1	18-MAY-2004 02:55:59	Dark	53.500	18	24Alp PsA	1.1660	9700.0	107	11580	No
GOM_TRA_1PNPDE20040518_030014_000000502027_00003_11580_0021.N1	18-MAY-2004 03:00:14	Dark	50.000	63	Bet Gru	2.1500	2800.0	100	11580	No
GOM_TRA_1PNPDE20040518_030147_000000442027_00004_11581_0022.N1	18-MAY-2004 03:01:47	Dark	44.000	31	Alp Gru	1.7340	15200.	88	11581	No
GOM_TRA_1PNPDE20040518_030322_000000432027_00004_11581_0023.N1	18-MAY-2004 03:03:22	Dark	42.500	148	Alp Tuc	2.8780	4100.0	85	11581	No
GOM_TRA_1PNPDE20040518_030500_000000392027_00004_11581_0024.N1	18-MAY-2004 03:05:00	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	11581	No
GOM_TRA_1PNPDE20040518_030718_000000442027_00004_11581_0025.N1	18-MAY-2004 03:07:18	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11581	No
GOM_TRA_1PNPDE20040518_031224_000000432027_00004_11581_0026.N1	18-MAY-2004 03:12:24	Dark	42.500	43	Alp TrA	1.9100	4250.0	85	11581	No
GOM_TRA_1PNPDE20040518_031433_000000412027_00004_11581_0027.N1	18-MAY-2004 03:14:33	Twilight	41.000	134	Bet TrA	2.8100	6600.0	82	11581	No
GOM_TRA_1PNPDE20040518_031612_000000442027_00004_11581_0028.N1	18-MAY-2004 03:16:12	Twilight	43.500	4	Alp1Cen	-0.010000	5800.0	87	11581	No
GOM_TRA_1PNPDE20040518_031756_000000522027_00004_11581_0029.N1	18-MAY-2004 03:17:56	Bright	52.000	85	Kap Sco	2.4070	28000.	104	11581	No
GOM_TRA_1PNPDE20040518_031948_000000422027_00004_11581_0030.N1	18-MAY-2004 03:19:48	Bright	41.500	78	Alp Lup	2.3040	28000.	83	11581	No
GOM_TRA_1PNPDE20040518_032737_000000642027_00004_11581_0000.N1	18-MAY-2004 03:27:37	Bright	63.500	86	35Eta Oph	2.4300	10200.	127	11581	No
GOM_TRA_1PNPDE20040518_033015_000000412027_00004_11581_0001.N1	18-MAY-2004 03:30:15	Bright	40.500	104	27Bet Lib	2.6140	13100.	81	11581	No
GOM_TRA_1PNPDE20040518_033216_000000502027_00004_11581_0002.N1	18-MAY-2004 03:32:16	Bright	49.500	120	1Del Oph	2.7340	3200.0	99	11581	No
GOM_TRA_1PNPDE20040518_033524_000000452027_00004_11581_0003.N1	18-MAY-2004 03:35:24	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	11581	No
GOM_TRA_1PNPDE20040518_033831_000000372027_00004_11581_0004.N1	18-MAY-2004 03:38:31	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	11581	No
GOM_TRA_1PNPDE20040518_034103_000000402027_00004_11581_0005.N1	18-MAY-2004 03:41:03	Bright	40.000	83		2.3780	11000.	80	11581	No
GOM_TRA_1PNPDE20040518_034412_000000392027_00004_11581_0006.N1	18-MAY-2004 03:44:12	Bright	39.000	180	27Gam Boo	3.0400	8000.0	78	11581	No
GOM_TRA_1PNPDE20040518_034712_000000382027_00004_11581_0007.N1	18-MAY-2004 03:47:12	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	11581	No
GOM_TRA_1PNPDE20040518_034850_000000382027_00004_11581_0008.N1	18-MAY-2004 03:48:50	Bright	37.500	55	79Zet UMa	2.0600	10200.	75	11581	No

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



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

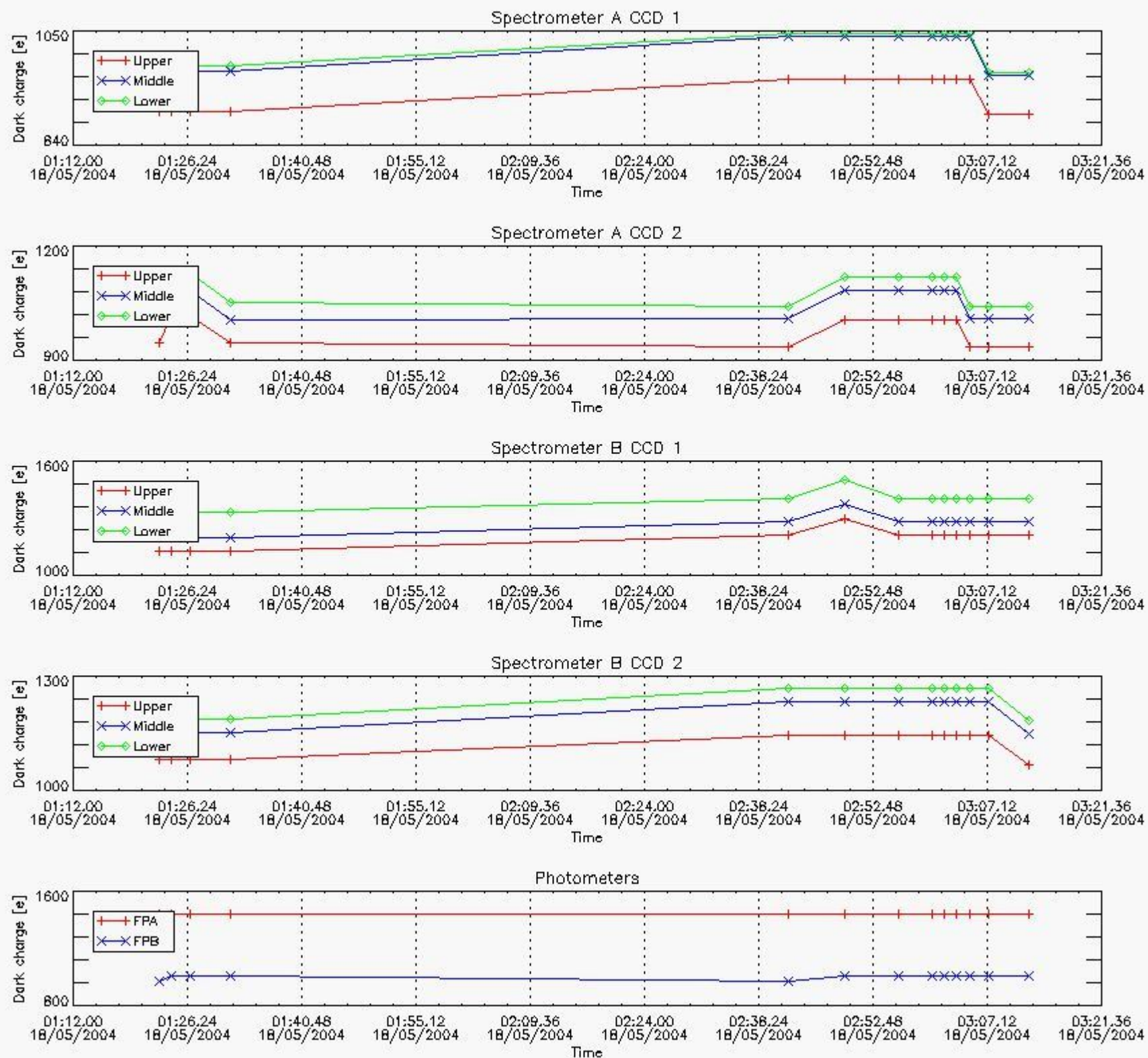
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20040518_012246_000000432027_00003_11580_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040518_012424_000000392027_00003_11580_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040518_012641_000000452027_00003_11580_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040518_013147_000000422027_00003_11580_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040518_013357_000000422027_00003_11580_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040518_013536_000000462027_00003_11580_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040518_013720_000000532027_00003_11580_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040518_013911_000000412027_00003_11580_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20040518_014041_000000422027_00003_11580_0008.N1	DC map used (0)

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



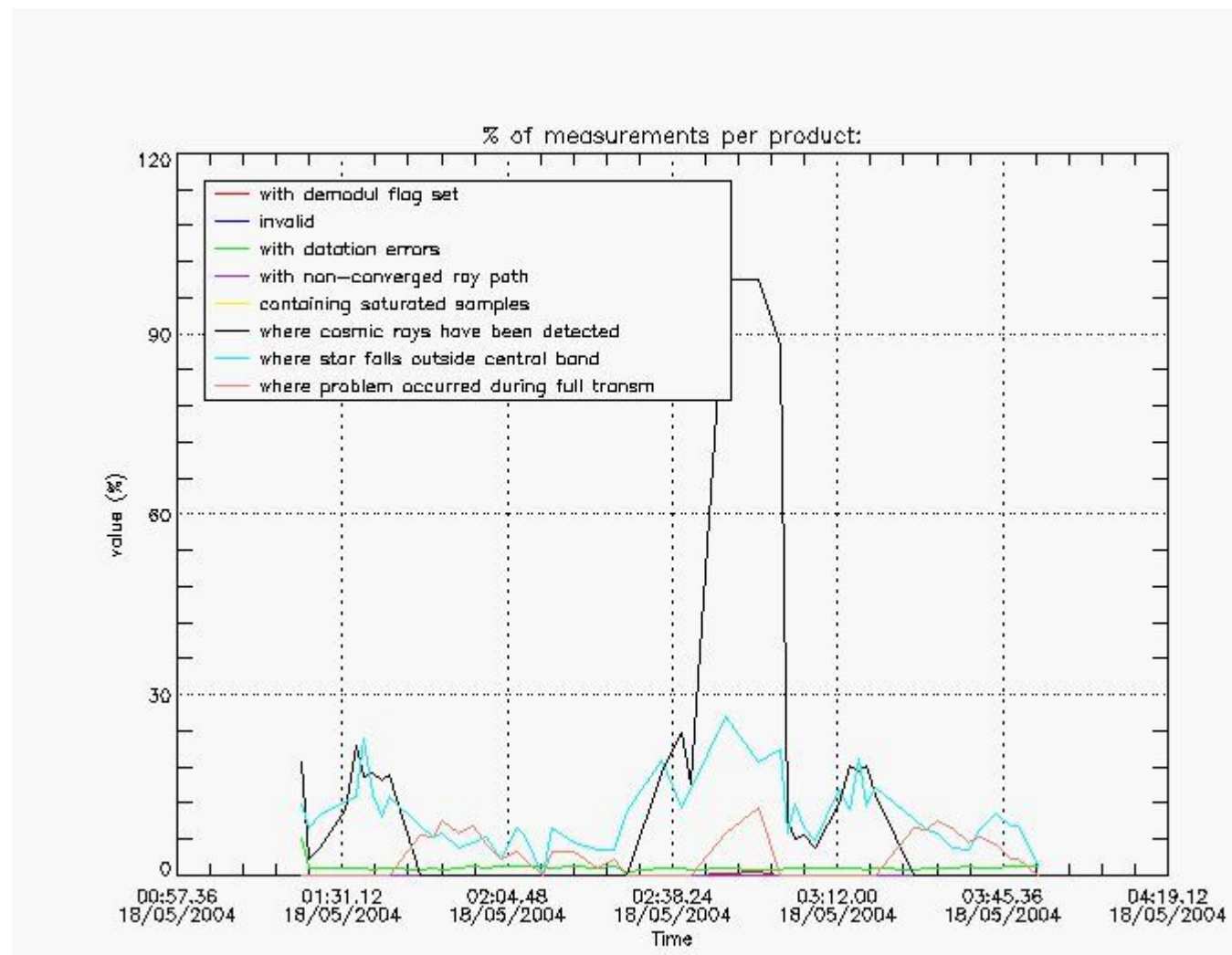
5. Demodulation flag and quality information monitoring

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

5.1 Percentage of products during reporting period with:

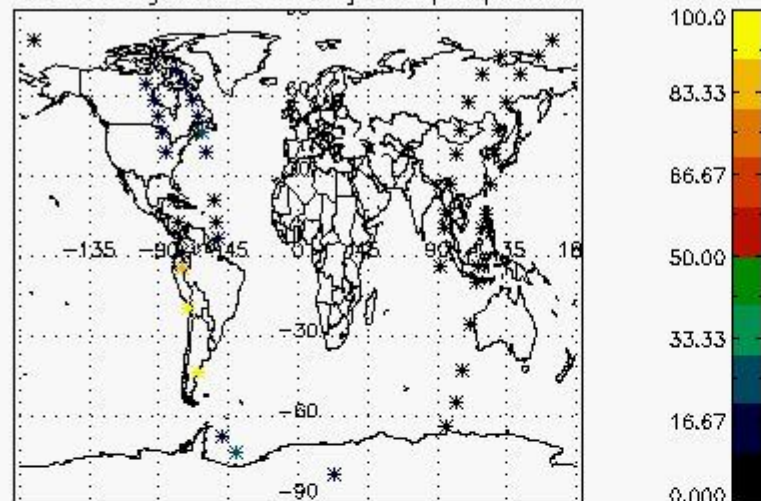
At least one measurement with demodulation flag set:	8.16327 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

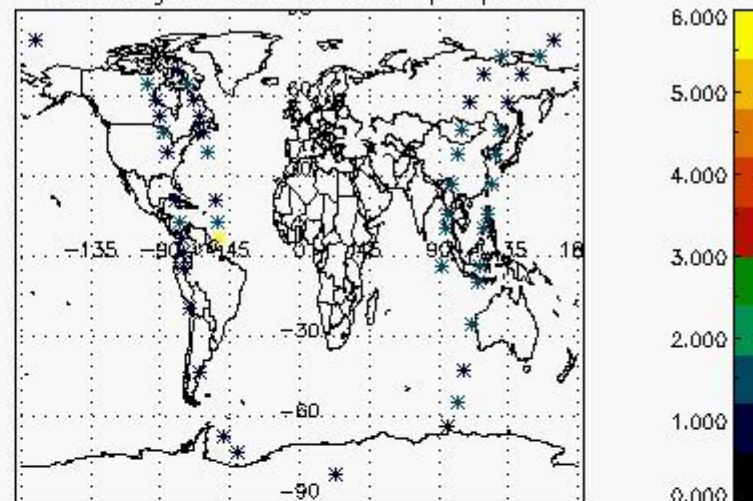


5.3 Plot quality information per product (world map)

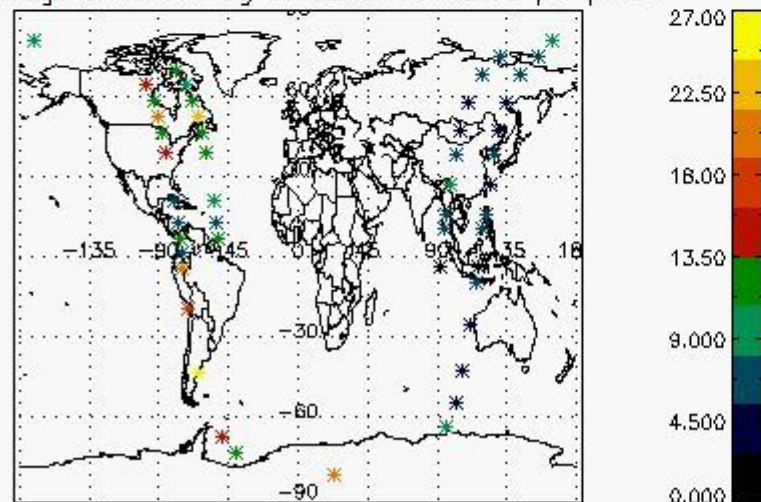
Percentage of cosmic ray hits per profile



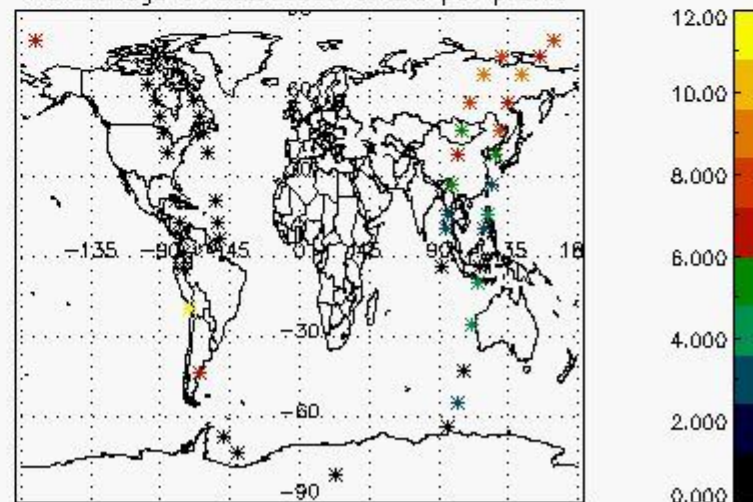
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



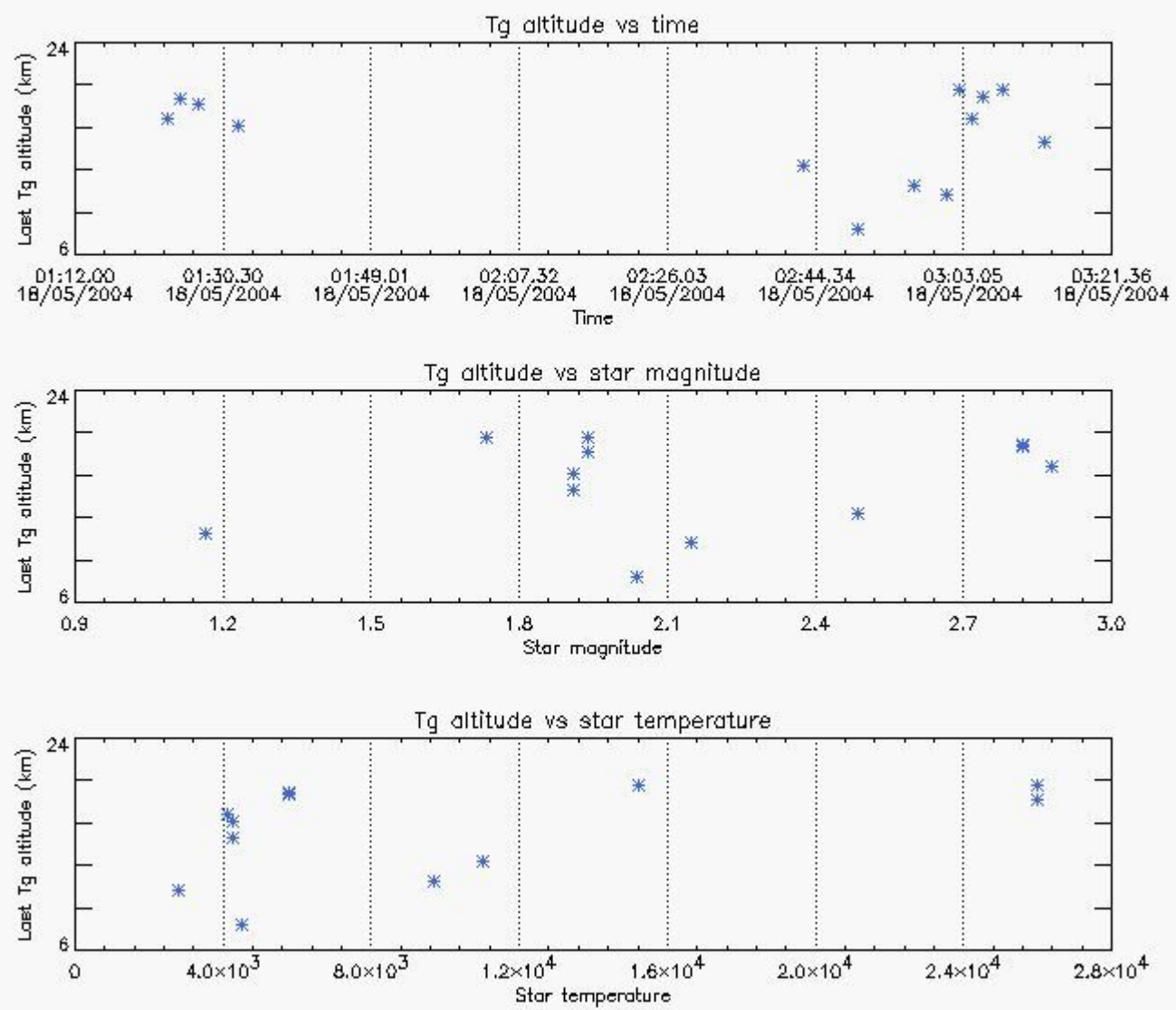
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.125	20.264	14.053
St. deviation:	3.8435	3.1393	2.8025
Maximum:	20.058	30.434	17.812
Minimum:	8.1128	15.283	10.020
Number of data:	13.000	30.000	6.0000

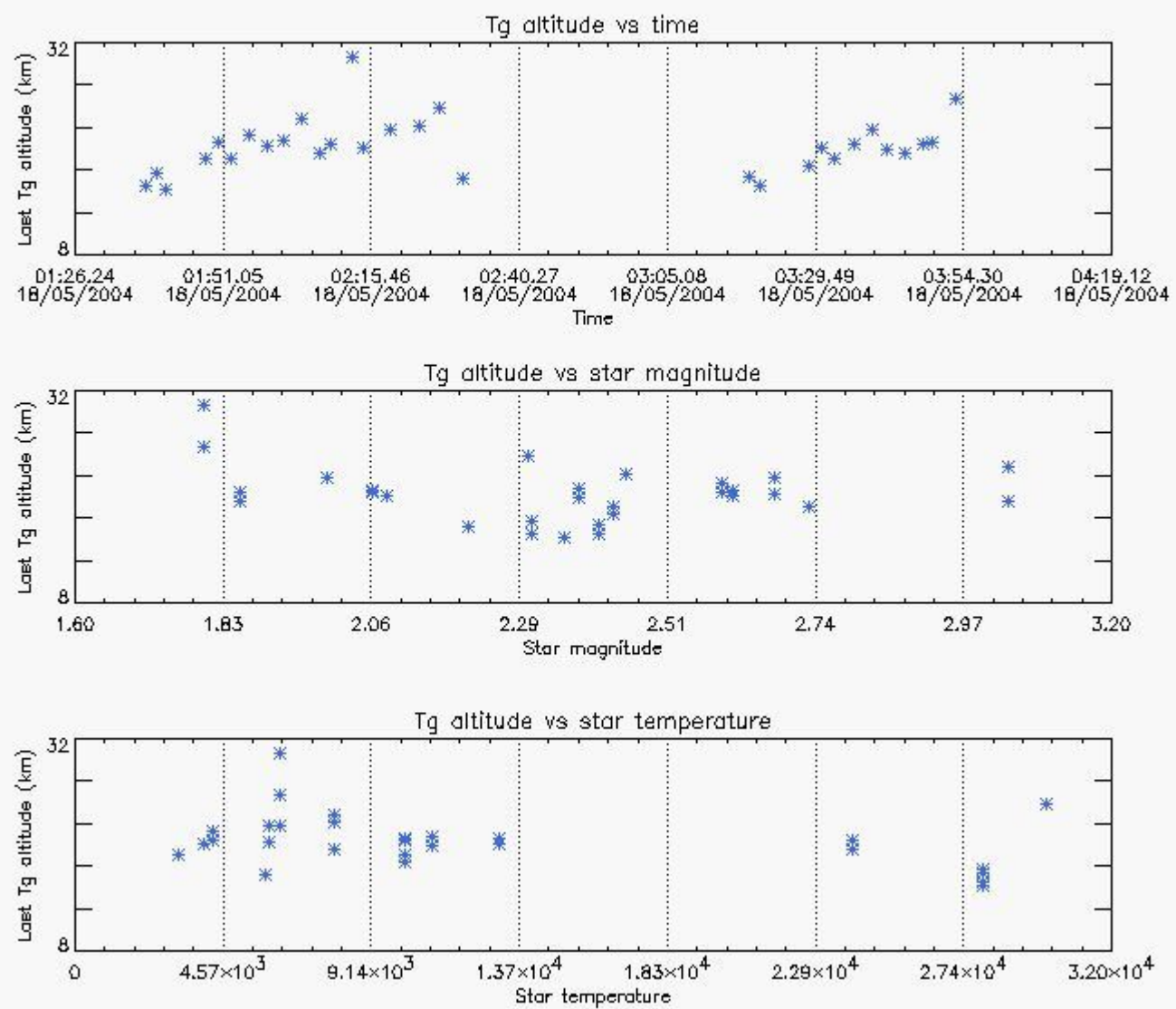
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

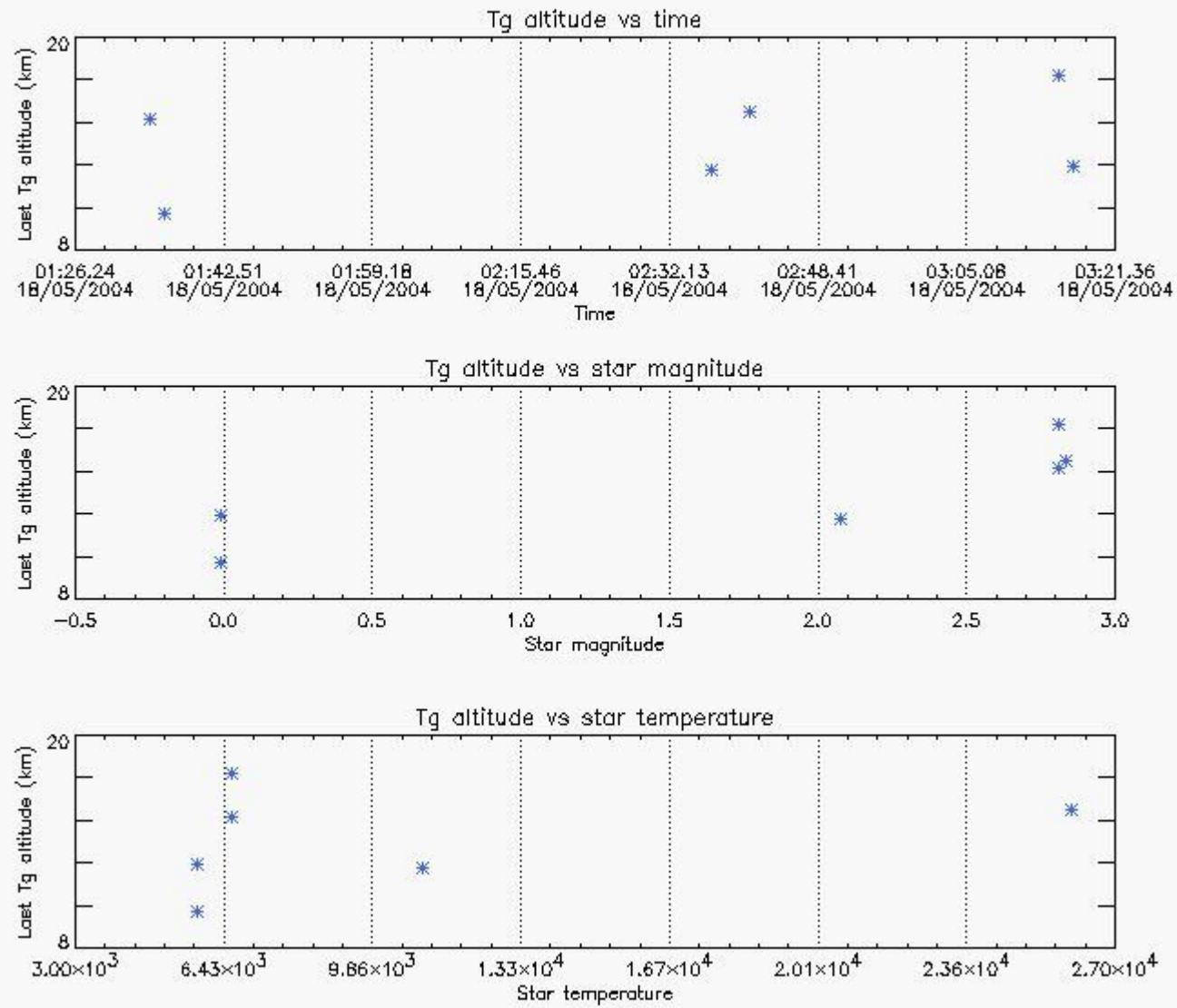
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



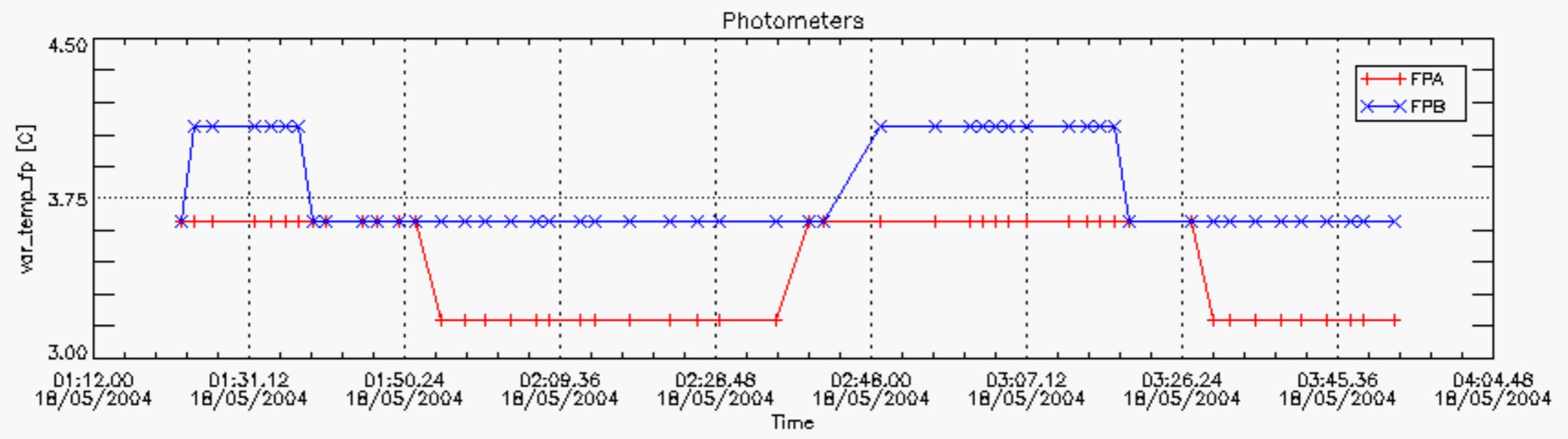
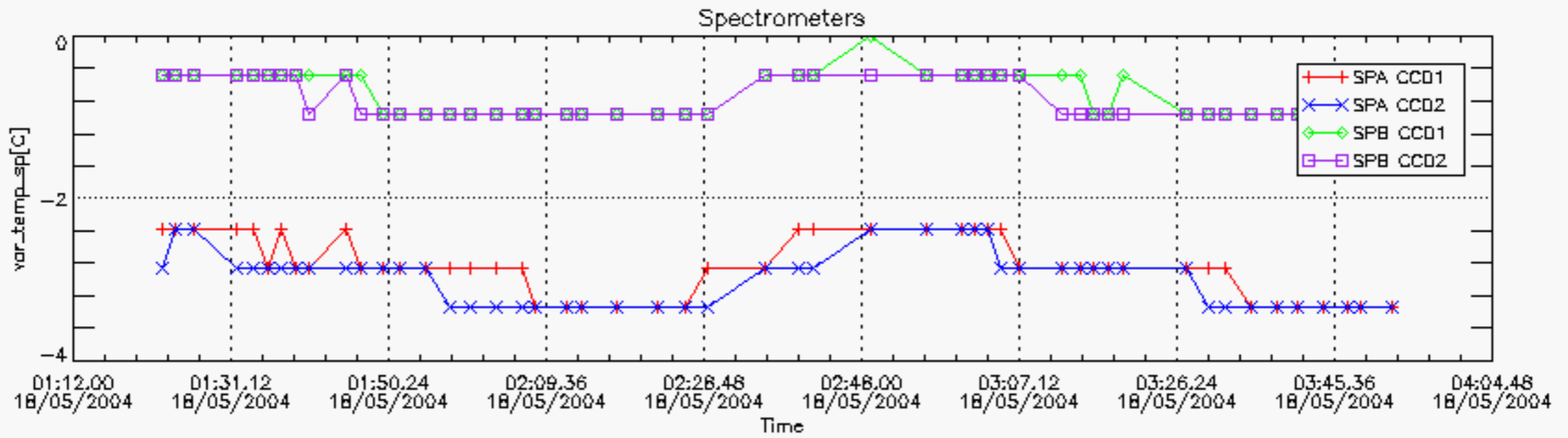
### Tangent altitude at which the star is lost

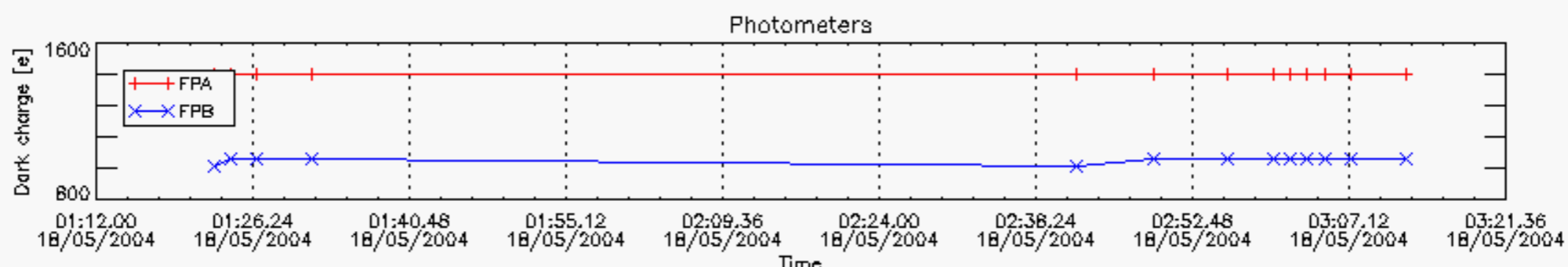
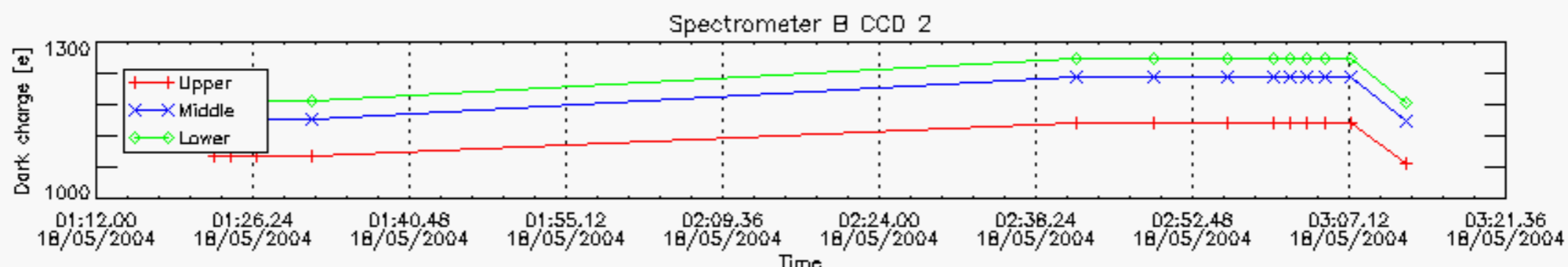
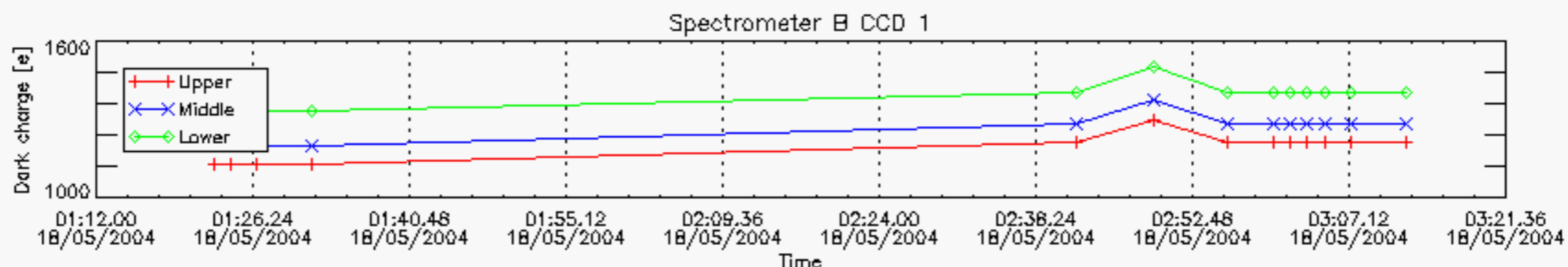
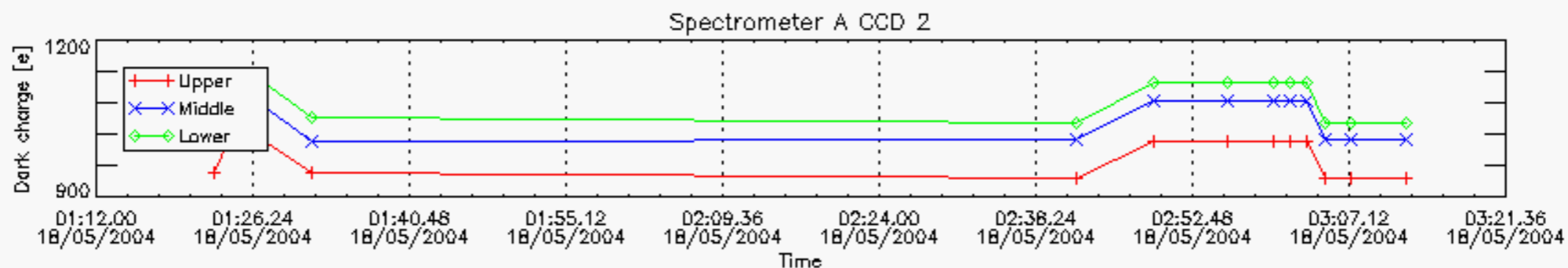
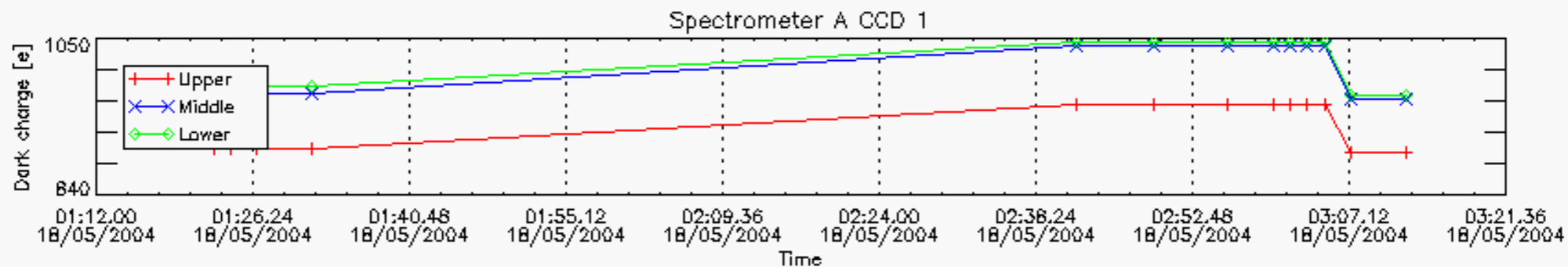


### 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

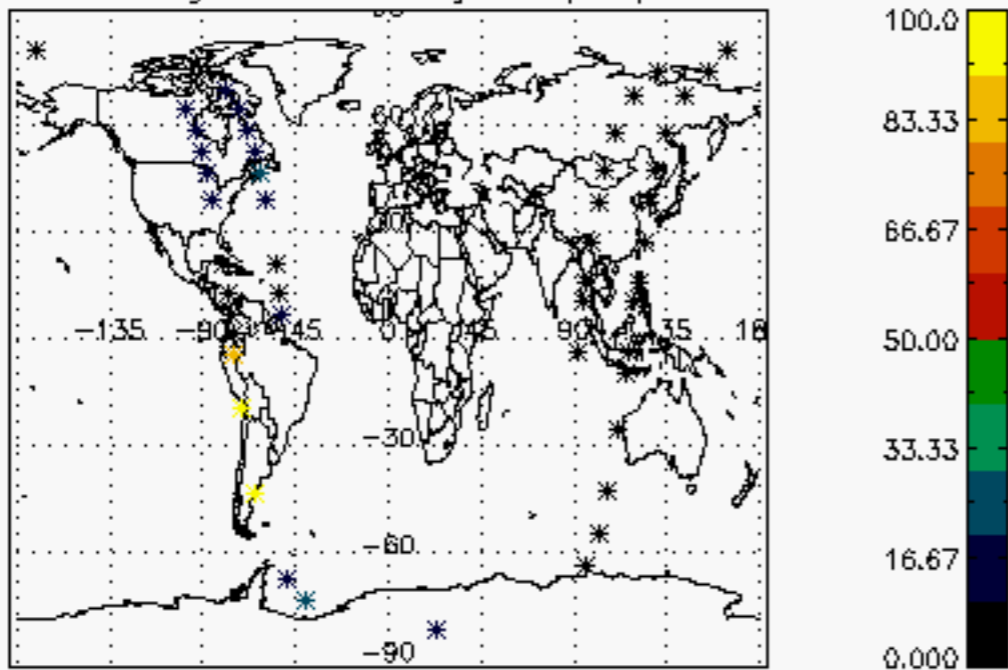
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.2	1446.4	1461.7	1447.3
St. deviation:	4.3022	6.0062	7.5307	8.5843
Maximum:	1492.0	1489.0	1507.0	1494.0
Minimum:	1454.0	1427.0	1446.0	1434.0
Number of data:	15100.	15100.	35250.	35250.



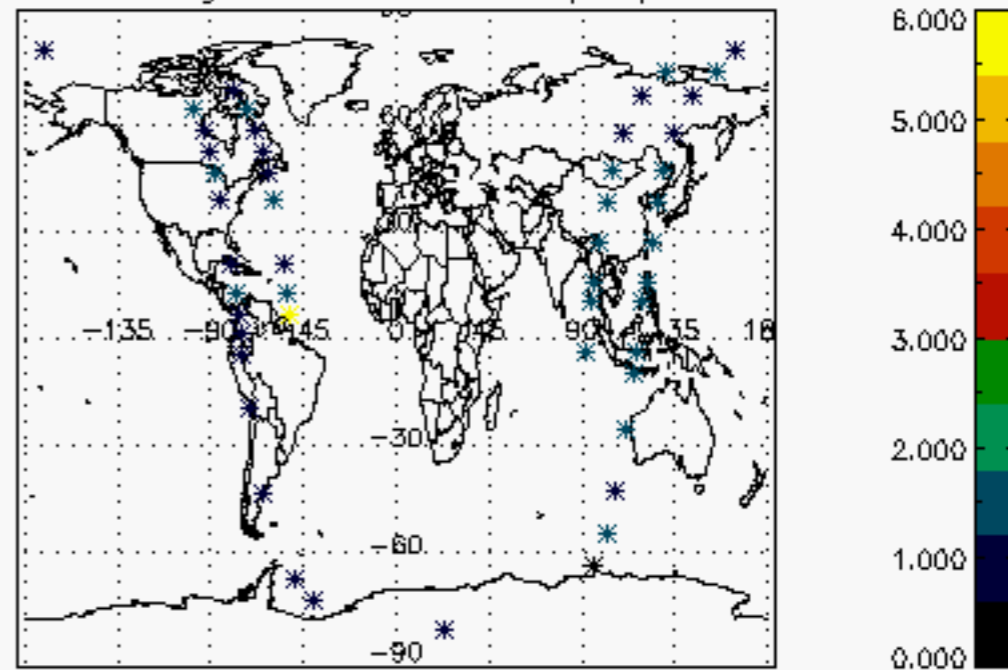




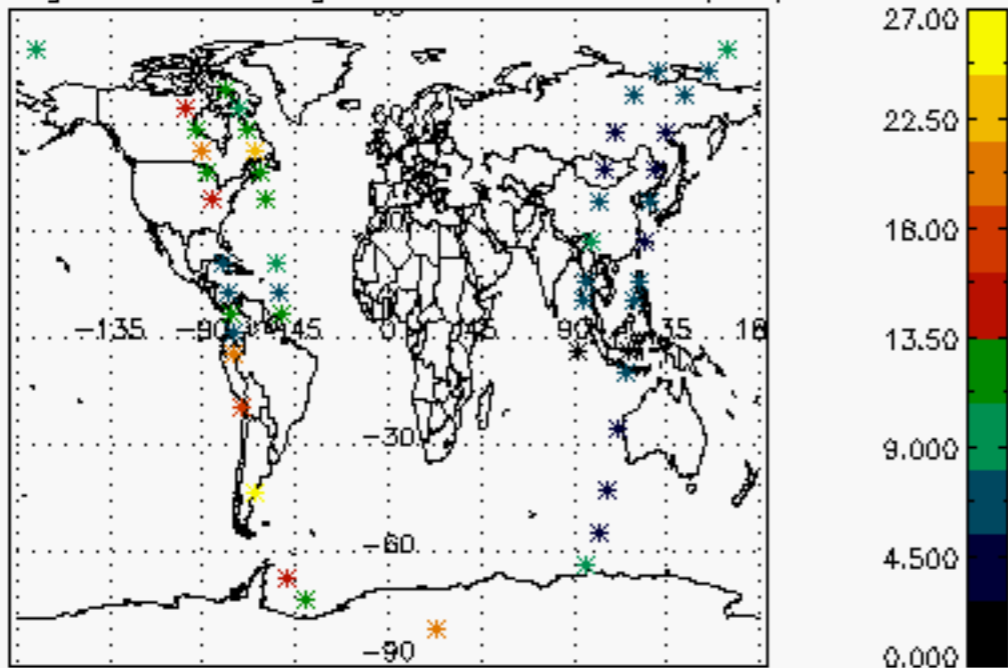
Percentage of cosmic ray hits per profile



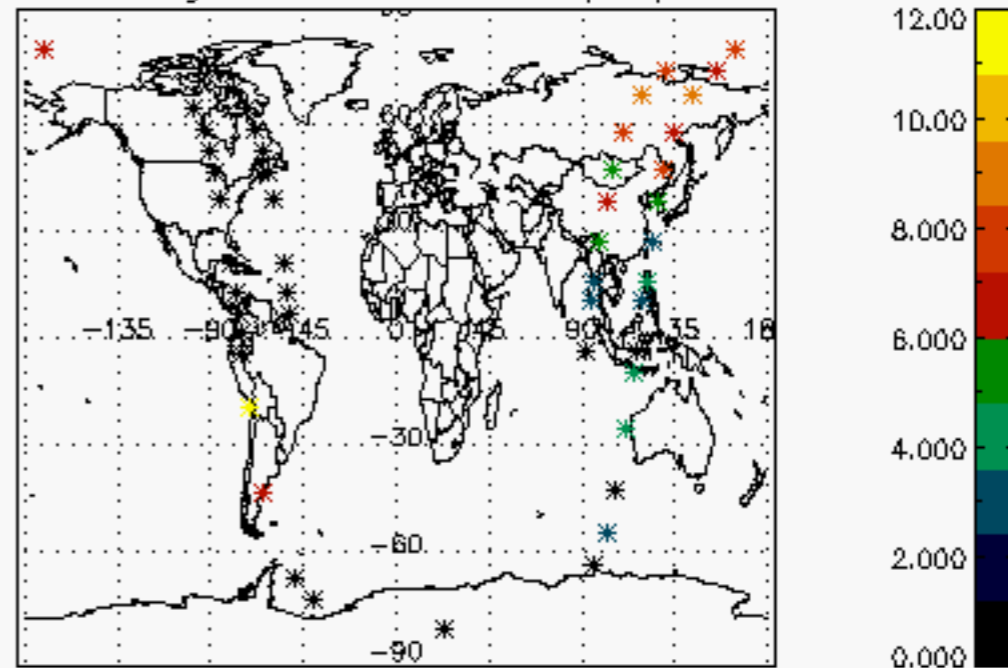
Percentage of datation errors per profile



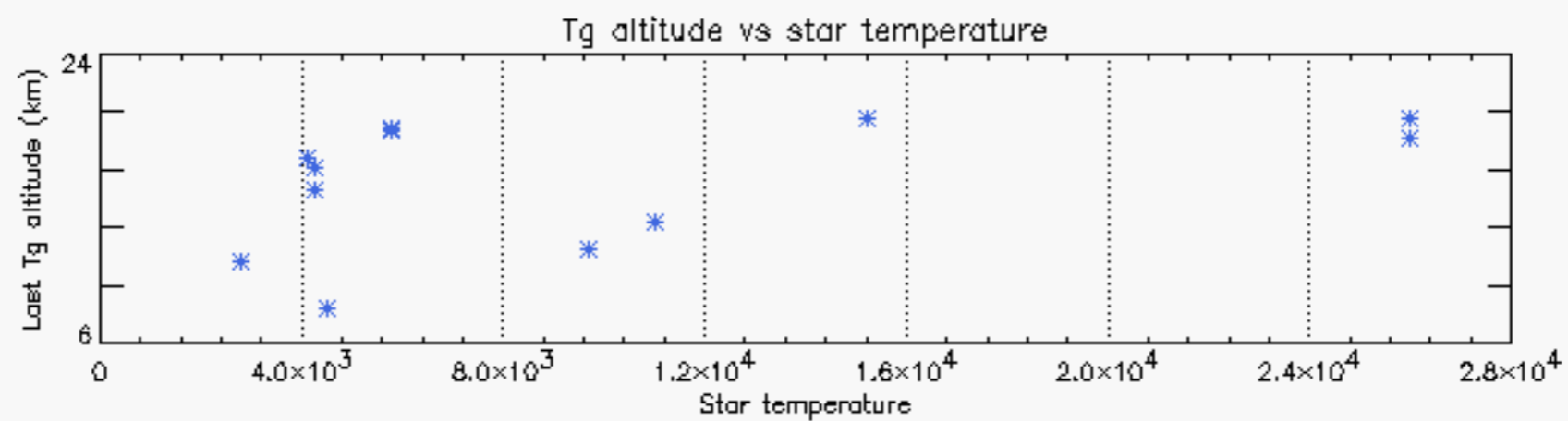
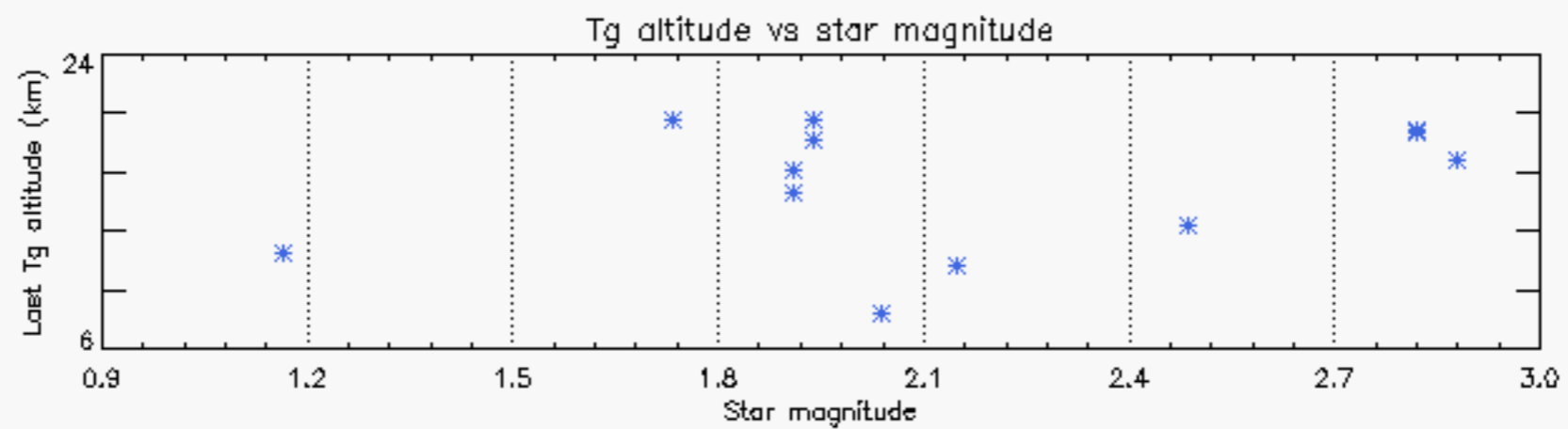
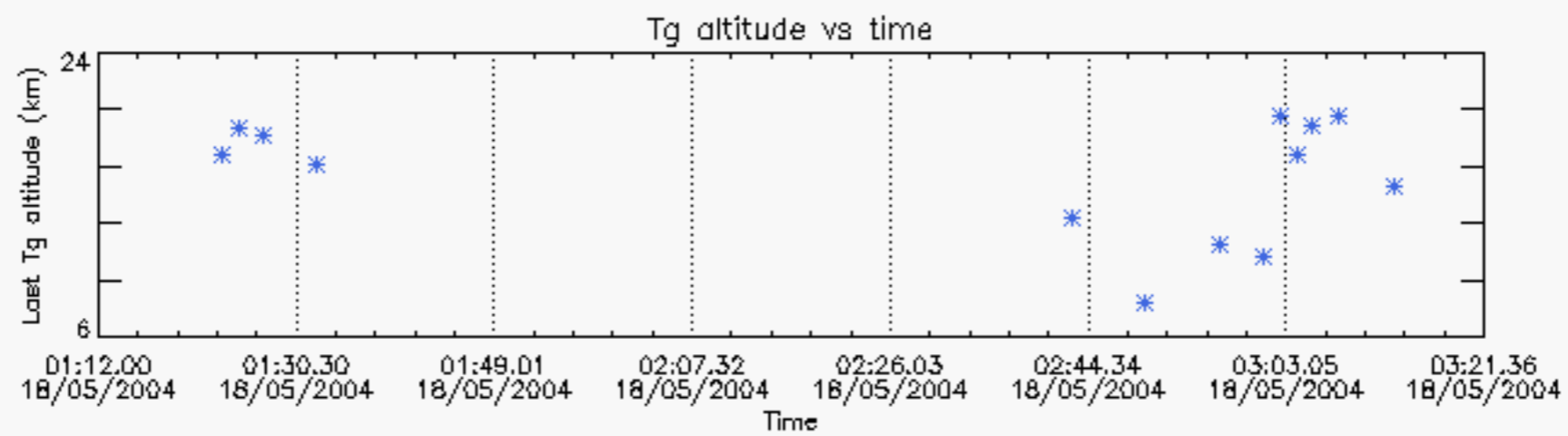
Percentage of star falling outside central band per profile



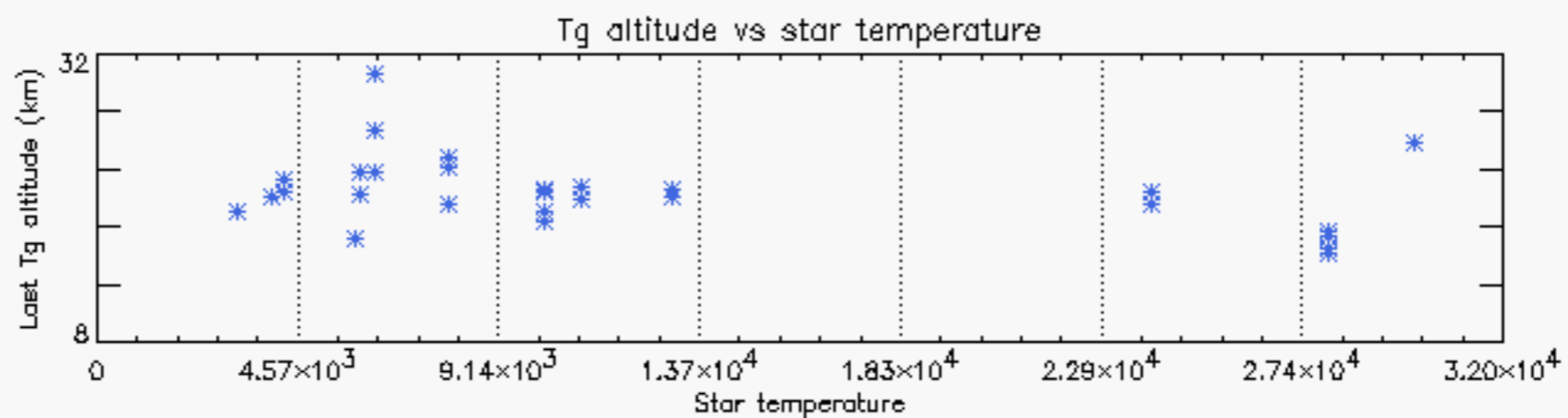
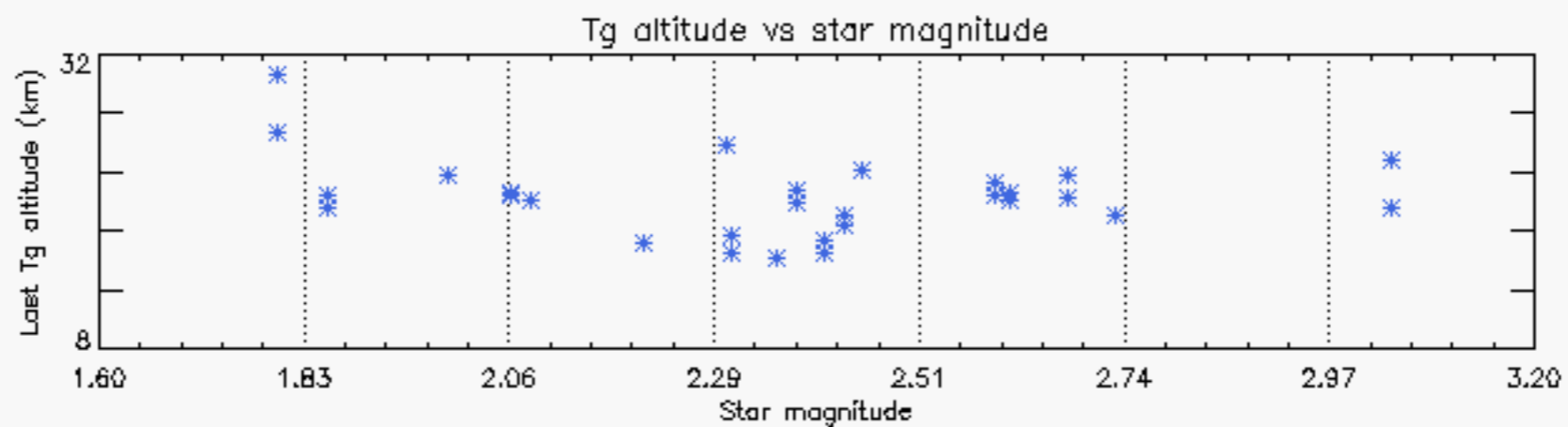
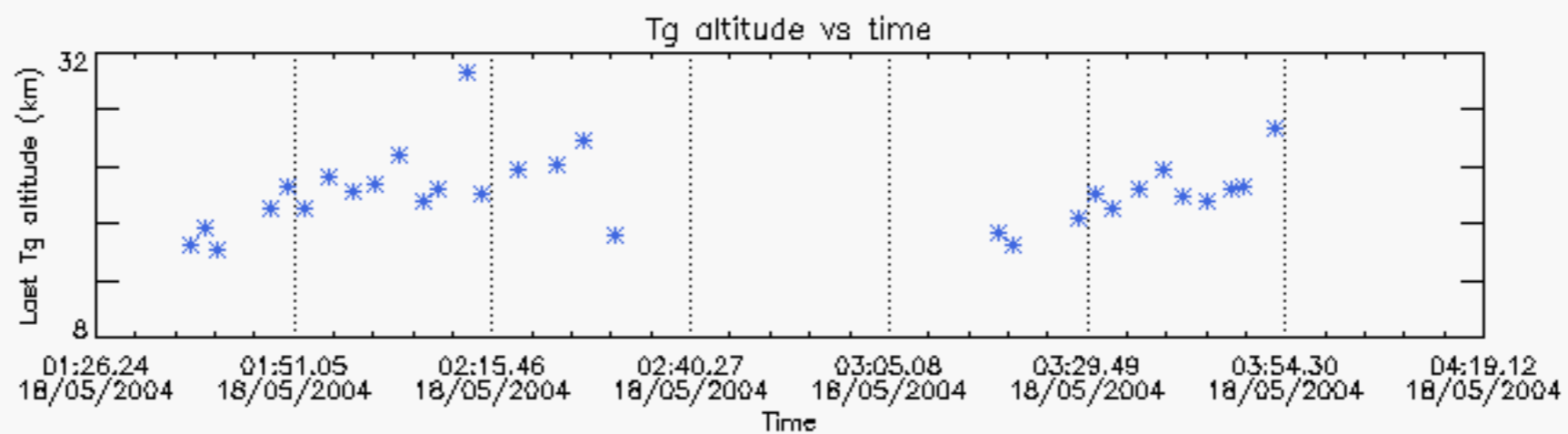
Percentage of saturation errors per profile



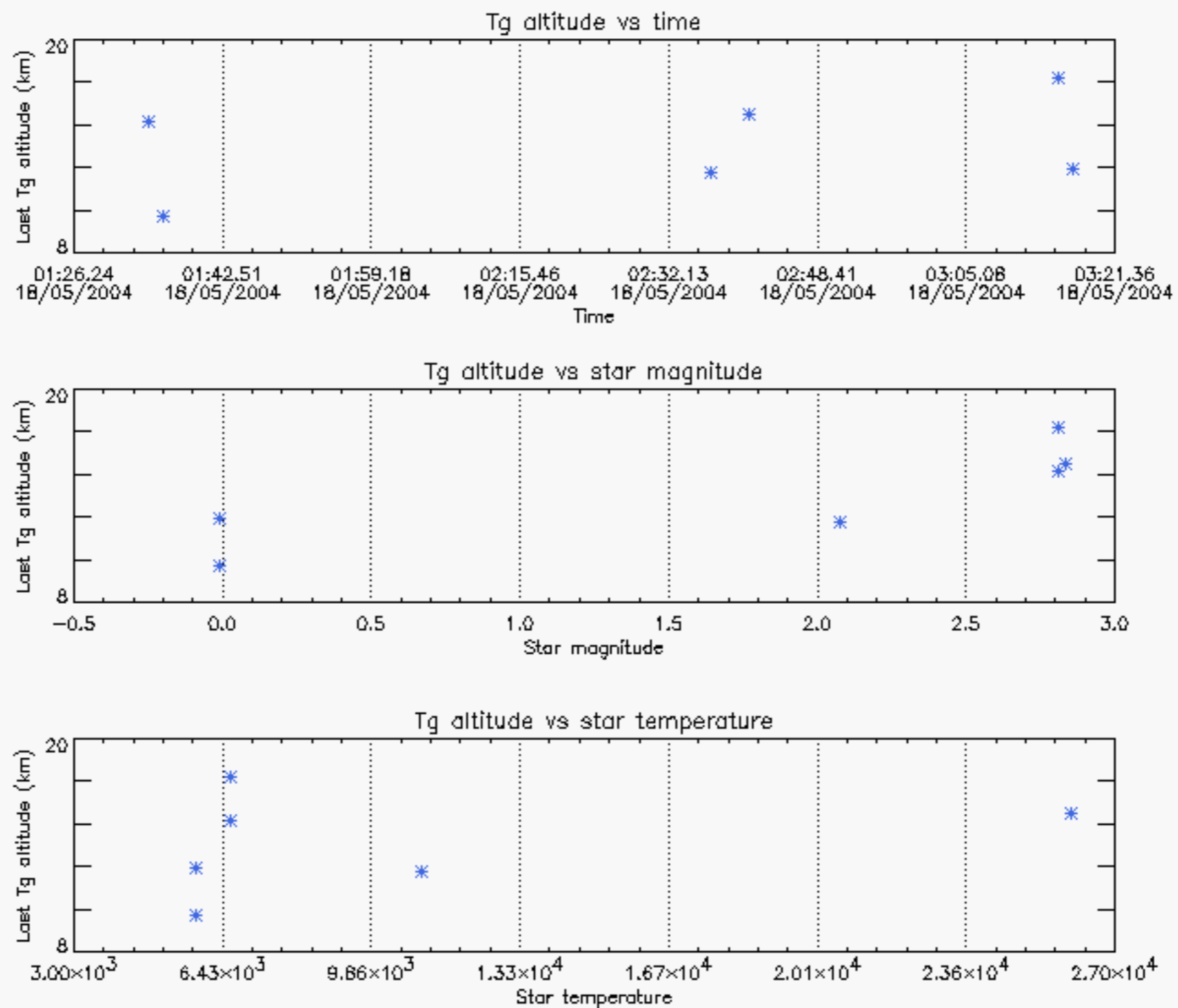
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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31; -105.2; 05-MAY-2004 21:34:52; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;11405
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33; 228.4; 05-MAY-2004 21:40:25; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;11406
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24; -369.7; 06-MAY-2004 14:16:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11415
25; -98.6; 06-MAY-2004 14:20:57; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;11415
26; 40.3; 06-MAY-2004 14:23:16; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;11416
27; 235.1; 06-MAY-2004 14:26:31; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;11416
28; 602.3; 06-MAY-2004 14:32:38; Dark ; 45.0; 43; Alp TrA ; 1.91; 4250;occ; 90; 0;11416
29; 700.1; 06-MAY-2004 14:34:16; Dark ; 42.5; 145; Gam TrA ; 2.87; 10600;occ; 85; 0;11416
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26; 242.8; 07-MAY-2004 07:12:38; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;11426

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13;-2591.9; 07-MAY-2004 11:27:11; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;11428
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19;-1229.5; 07-MAY-2004 11:49:54; Dark ; 49.0; 90; 54Alp Peg ; 2.49; 11000;occ; 98; 0;11428
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23; -164.9; 07-MAY-2004 12:07:38; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;11428
24; -90.2; 07-MAY-2004 12:08:53; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;11428

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25; 244.6; 07-MAY-2004 12:14:28; Dark ; 45.5; 45; Alp Pav ; 1.94; 26000;occ; 91; 0;11429
26; 609.0; 07-MAY-2004 12:20:32; Dark ; 44.0; 43; Alp TrA ; 1.91; 4250;occ; 88; 0;11429
27; 694.0; 07-MAY-2004 12:21:57; Dark ; 49.5; 141; Bet Ara ; 2.84; 4600;occ; 99; 0;11429
28; 855.1; 07-MAY-2004 12:24:38; Dark ; 48.5; 4; Alp1Cen ;-0.01; 5800;occ; 97; 0;11429
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23; -439.5; 07-MAY-2004 15:24:16; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;11430
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```

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27; 46.8; 07-MAY-2004 15:32:22; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;11431
28; 245.3; 07-MAY-2004 15:35:40; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;11431
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4; -4727.0; 07-MAY-2004 19:14:36; Dark ; 61.5; 16; 21Alp Sco ; 1.02; 3000;occ; 123; 0;11433
5; -4609.2; 07-MAY-2004 19:16:34; Dark ; 68.0; 80; 7Del Sco ; 2.32; 30000;occ; 136; 0;11433
6; -4473.2; 07-MAY-2004 19:18:50; Bright; 81.5; 86; 35Eta Oph ; 2.43; 10200;occ; 163; 0;11433
7; -4312.4; 07-MAY-2004 19:21:31; Bright; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;11433
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9; -3930.8; 07-MAY-2004 19:27:52; Bright; 37.0; 138; 47Eps Vir ; 2.83; 4700;occ; 74; 0;11433
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11; -3625.2; 07-MAY-2004 19:32:58; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;11433
12; -3473.5; 07-MAY-2004 19:35:30; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;11433
13; -3284.3; 07-MAY-2004 19:38:39; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;11433
14; -3195.9; 07-MAY-2004 19:40:07; Bright; 36.5; 55; 79Zet UMa ; 2.06; 10200;occ; 73; 0;11433
15; -3087.4; 07-MAY-2004 19:41:56; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;11433
16; -3014.1; 07-MAY-2004 19:43:09; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;11433
17; -2887.2; 07-MAY-2004 19:45:16; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;11433
18; -2767.5; 07-MAY-2004 19:47:16; Bright; 54.5; 130; 23Bet Dra ; 2.80; 5800;occ; 109; 0;11433
19; -2591.5; 07-MAY-2004 19:50:12; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;11433
20; -2243.1; 07-MAY-2004 19:56:00; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;11433
21; -2103.8; 07-MAY-2004 19:58:19; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;11433
22; -2029.0; 07-MAY-2004 19:59:34; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;11433
23; -1824.6; 07-MAY-2004 20:02:58; Bright; 92.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 185; 0;11433
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26; -778.4; 07-MAY-2004 20:20:25; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;11433
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28; -343.6; 07-MAY-2004 20:27:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11433
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31; 48.2; 07-MAY-2004 20:34:11; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;11434
32; 248.0; 07-MAY-2004 20:37:31; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;11434
33; 610.1; 07-MAY-2004 20:43:33; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;11434
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6; -4472.1; 07-MAY-2004 20:59:27; Bright; 81.0; 86; 35Eta Oph ; 2.43; 10200;occ; 162; 0;11434
7; -4312.3; 07-MAY-2004 21:02:07; Bright; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;11434
8; -4122.0; 07-MAY-2004 21:05:17; Bright; 37.5; 121; 29Gam Vir ; 2.74; 7200;occ; 75; 0;11434
9; -3931.6; 07-MAY-2004 21:08:27; Bright; 37.5; 138; 47Eps Vir ; 2.83; 4700;occ; 75; 0;11434
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11; -3626.0; 07-MAY-2004 21:13:33; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;11434
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13; -3284.8; 07-MAY-2004 21:19:14; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;11434
14; -3196.2; 07-MAY-2004 21:20:43; Bright; 37.5; 55; 79Zet UMa ; 2.06; 10200;occ; 75; 0;11434
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16; -3014.3; 07-MAY-2004 21:23:45; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;11434
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19; -2591.8; 07-MAY-2004 21:30:47; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;11434
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21; -2104.2; 07-MAY-2004 21:38:55; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;11434

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22;-2029.3; 07-MAY-2004 21:40:10; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;11434
23;-1824.9; 07-MAY-2004 21:43:34; Bright; 88.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 177; 0;11434
24;-1557.7; 07-MAY-2004 21:48:01; Dark ; 93.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 187; 0;11434
25;-1227.6; 07-MAY-2004 21:53:31; Dark ; 52.0; 90; 54Alp Peg ; 2.49; 11000;occ; 104; 0;11434
26; -779.1; 07-MAY-2004 22:01:00; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;11434
27; -437.2; 07-MAY-2004 22:06:42; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;11434
28; -342.1; 07-MAY-2004 22:08:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11434
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30; -86.3; 07-MAY-2004 22:12:33; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;11434
31; 48.2; 07-MAY-2004 22:14:47; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;11435
32; 248.8; 07-MAY-2004 22:18:08; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;11435
33; 608.6; 07-MAY-2004 22:24:08; Dark ; 43.5; 43; Alp TrA ; 1.91; 4250;occ; 87; 0;11435
34; 704.8; 07-MAY-2004 22:25:44; Dark ; 40.0; 145; Gam TrA ; 2.87; 10600;occ; 80; 0;11435
35; 855.5; 07-MAY-2004 22:28:14; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;11435
36; 1104.7; 07-MAY-2004 22:32:24; Dark ; 62.0; 75; 26Eps Sco ; 2.29; 4250;occ; 124; 0;11435
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3;-4120.4; 08-MAY-2004 05:28:18; Bright; 37.5; 121; 29Gam Vir ; 2.74; 7200;occ; 75; 0;11439
4;-3929.6; 08-MAY-2004 05:31:29; Bright; 36.5; 138; 47Eps Vir ; 2.83; 4700;occ; 73; 0;11439
5;-3815.2; 08-MAY-2004 05:33:24; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;11439
6;-3627.1; 08-MAY-2004 05:36:32; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;11439
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8;-3285.0; 08-MAY-2004 05:42:14; Bright; 37.5; 39; 85Eta UMa ; 1.85; 24000;occ; 75; 0;11439
9;-3196.8; 08-MAY-2004 05:43:42; Bright; 39.0; 55; 79Zet UMa ; 2.06; 10200;occ; 78; 0;11439
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11;-3012.5; 08-MAY-2004 05:46:46; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;11439
12;-2890.8; 08-MAY-2004 05:48:48; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;11439
13;-2773.7; 08-MAY-2004 05:50:45; Bright; 55.0; 130; 23Bet Dra ; 2.80; 5800;occ; 110; 0;11439
14;-2591.8; 08-MAY-2004 05:53:47; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;11439
15;-2245.2; 08-MAY-2004 05:59:34; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;11439
16;-2104.4; 08-MAY-2004 06:01:54; Bright; 46.5; 76; 27Gam Cas ; 2.30; 30000;occ; 93; 0;11439
17;-2029.4; 08-MAY-2004 06:03:09; Bright; 41.5; 68; 18Alp Cas ; 2.22; 4500;occ; 83; 0;11439
18;-1827.9; 08-MAY-2004 06:06:31; Bright; 86.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 172; 0;11439
19;-1557.1; 08-MAY-2004 06:11:02; Dark ; 100.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 200; 0;11439
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21; -778.0; 08-MAY-2004 06:24:01; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;11439
22; -433.9; 08-MAY-2004 06:29:45; Dark ; 51.5; 18; 24Alp PsA ; 1.17; 9700;occ; 103; 0;11439
23; -334.5; 08-MAY-2004 06:31:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11439
24; -159.3; 08-MAY-2004 06:34:20; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;11439
25; -83.3; 08-MAY-2004 06:35:35; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;11439
26; 49.9; 08-MAY-2004 06:37:49; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;11440
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3;-4472.0; 08-MAY-2004 00:20:39; Bright; 78.0; 86; 35Eta Oph ; 2.43; 10200;occ; 156; 0;11436
4;-4312.1; 08-MAY-2004 00:23:19; Bright; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;11436
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6;-3931.4; 08-MAY-2004 00:29:39; Bright; 37.5; 138; 47Eps Vir ; 2.83; 4700;occ; 75; 0;11436
7;-3815.4; 08-MAY-2004 00:31:35; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;11436
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9;-3476.0; 08-MAY-2004 00:37:15; Bright; 38.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 77; 0;11436
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12;-3086.6; 08-MAY-2004 00:43:44; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;11436
13;-3013.4; 08-MAY-2004 00:44:57; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;11436
14;-2888.9; 08-MAY-2004 00:47:02; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;11436
15;-2770.5; 08-MAY-2004 00:49:00; Bright; 52.5; 130; 23Bet Dra ; 2.80; 5800;occ; 105; 0;11436
16;-2592.4; 08-MAY-2004 00:51:58; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;11436
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22;-1225.9; 08-MAY-2004 01:14:45; Dark ; 52.5; 90; 54Alp Peg ; 2.49; 11000;occ; 105; 0;11436
23; -780.5; 08-MAY-2004 01:22:10; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;11436
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25; -339.0; 08-MAY-2004 01:29:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11436

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26; -163.7; 08-MAY-2004 01:32:27; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;11436
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19;-1826.2; 08-MAY-2004 02:45:20; Bright; 87.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 174; 0;11437
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27; 46.7; 08-MAY-2004 03:16:33; Dark ; 53.5; 148; Alp Tuc ; 2.88; 4100;occ; 107; 0;11438
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35; 1445.3; 13-MAY-2004 06:03:37; Dark ; 55.5; 80; 7Del Sco ; 2.32; 30000;occ; 111; 0;11511
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33; 207.8; 13-MAY-2004 20:48:23; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;11520
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28; 208.3; 14-MAY-2004 06:51:59; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;11526
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34; 1154.0; 14-MAY-2004 07:07:45; Dark ; 57.0; 75; 26Eps Sco ; 2.29; 4250;occ; 114; 0;11526
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27; 312.4; 14-MAY-2004 08:34:19; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;11527
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33; 1155.1; 14-MAY-2004 12:09:33; Dark ; 56.5; 75; 26Eps Sco ; 2.29; 4250;occ; 113; 0;11529
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19;-2026.1; 16-MAY-2004 18:36:19; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;11561
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23;-1166.6; 16-MAY-2004 18:50:38; Dark ; 57.5; 90; 54Alp Peg ; 2.49; 11000;occ; 115; 0;11561
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31; 1026.9; 16-MAY-2004 02:41:12; Dark ; 54.5; 25; 35Lam Sco ; 1.62; 28000;occ; 109; 0;11552
32; 1184.6; 16-MAY-2004 02:43:50; Dark ; 40.5; 81; Eta Cen ; 2.36; 28000;occ; 81; 0;11552
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