

GOMOS Daily Report 04-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](#)

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	07SEP2004 05:06:23
Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-3D (04SEP2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-3D (05SEP2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	44
Nb of prods with errors	1

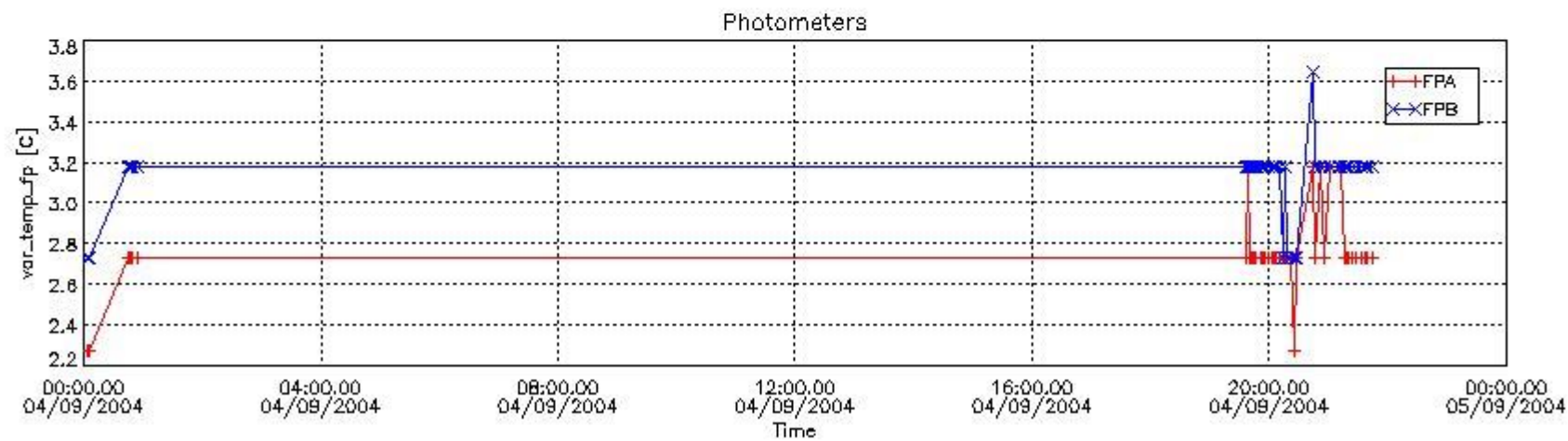
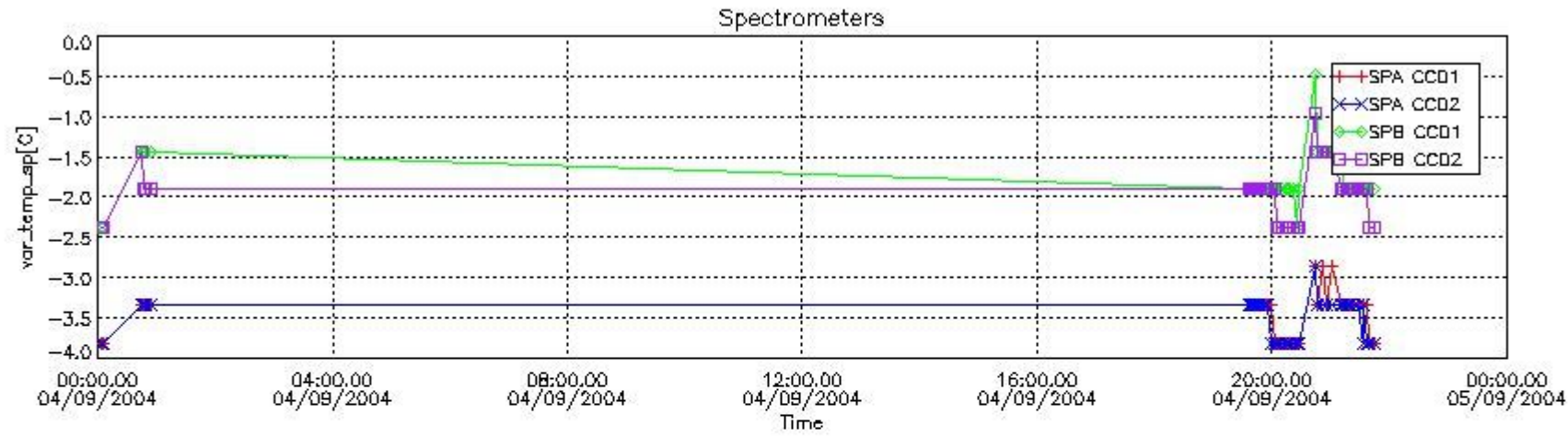
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040904_000358_000000362030_00059_13139_0018.N1	04-SEP-2004 00:03:58	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	13139	No
GOM_TRA_1PNPDE20040904_000621_000000402030_00059_13139_0019.N1	04-SEP-2004 00:06:21	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	13139	No
GOM_TRA_1PNPDE20040904_004431_000000552030_00059_13139_0000.N1	04-SEP-2004 00:44:31	Dark	54.500	1	9Alp CMa	-1.4400	11000.	109	13139	No
GOM_TRA_1PNPDE20040904_004612_000000452030_00059_13139_0001.N1	04-SEP-2004 00:46:12	Dark	44.500	37	25Del CMa	1.8300	5900.0	89	13139	No
GOM_TRA_1PNPDE20040904_004829_000001042030_00059_13139_0002.N1	04-SEP-2004 00:48:29	Dark	103.50	7	19Bet Ori	0.10000	14000.	207	13139	No
GOM_TRA_1PNPDE20040904_005353_000000452030_00059_13139_0003.N1	04-SEP-2004 00:53:53	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	13139	No
GOM_TRA_1PNPDE20040904_193613_000000462030_00071_13151_0000.N1	04-SEP-2004 19:36:13	Twilight	46.000	148	Alp Tuc	2.8780	4100.0	92	13151	No
GOM_TRA_1PNPDE20040904_193809_000000482030_00071_13151_0001.N1	04-SEP-2004 19:38:09	Twilight	47.500	84	Alp Phe	2.3970	4500.0	95	13151	No
GOM_TRA_1PNPDE20040904_193953_000000452030_00071_13151_0002.N1	04-SEP-2004 19:39:53	Twilight	44.500	31	Alp Gru	1.7340	15200.	89	13151	No
GOM_TRA_1PNPDE20040904_194242_000000422030_00071_13151_0003.N1	04-SEP-2004 19:42:42	Bright	41.500	172	Gam Gru	3.0030	13100.	83	13151	No
GOM_TRA_1PNPDE20040904_194400_000000492030_00071_13151_0004.N1	04-SEP-2004 19:44:00	Bright	49.000	18	24Alp PsA	1.1660	9700.0	98	13151	No
GOM_TRA_1PNPDE20040904_194636_000000782030_00071_13151_0005.N1	04-SEP-2004 19:46:36	Bright	78.000	52	16Bet Cet	2.0370	4500.0	156	13151	No
GOM_TRA_1PNPDE20040904_195149_000000402030_00071_13151_0006.N1	04-SEP-2004 19:51:49	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	13151	No
GOM_TRA_1PNPDE20040904_195310_000000412030_00071_13151_0007.N1	04-SEP-2004 19:53:10	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	13151	No
GOM_TRA_1PNPDE20040904_195610_000000392030_00071_13151_0008.N1	04-SEP-2004 19:56:10	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	13151	No
GOM_TRA_1PNPDE20040904_195837_000000472030_00071_13151_0009.N1	04-SEP-2004 19:58:37	Bright	47.000	90	54Alp Peg	2.4870	11000.	94	13151	No
GOM_TRA_1PNPDE20040904_200308_000000392030_00071_13151_0010.N1	04-SEP-2004 20:03:08	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	13151	No
GOM_TRA_1PNPDE20040904_200504_000000402030_00071_13151_0011.N1	04-SEP-2004 20:05:04	Bright	40.000	66	37Gam Cyg	2.2080	5900.0	80	13151	No
GOM_TRA_1PNPDE20040904_200618_000000402030_00071_13151_0012.N1	04-SEP-2004 20:06:18	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	13151	No
GOM_TRA_1PNPDE20040904_201107_000000382030_00071_13151_0013.N1	04-SEP-2004 20:11:07	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	13151	No
GOM_TRA_1PNPDE20040904_201323_000000462030_00071_13151_0014.N1	04-SEP-2004 20:13:23	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	13151	No
GOM_TRA_1PNPDE20040904_201526_000000442030_00071_13151_0015.N1	04-SEP-2004 20:15:26	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	13151	No
GOM_TRA_1PNPDE20040904_201849_000000392030_00071_13151_0016.N1	04-SEP-2004 20:18:49	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13151	No
GOM_TRA_1PNPDE20040904_202227_000000582030_00071_13151_0017.N1	04-SEP-2004 20:22:27	Bright	58.000	160	23Gam Per	2.9300	4700.0	116	13151	No
GOM_TRA_1PNPDE20040904_202529_000000372030_00071_13151_0018.N1	04-SEP-2004 20:25:29	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	13151	No
GOM_TRA_1PNPDE20040904_202650_000000392030_00071_13151_0019.N1	04-SEP-2004 20:26:50	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	13151	No
GOM_TRA_1PNPDE20040904_204350_000000562030_00071_13151_0000.N1	04-SEP-2004 20:43:50	Twilight	56.000	8	10Alp CMi	0.40000	6500.0	112	13151	Yes
GOM_TRA_1PNPDE20040904_204658_000000782030_00071_13151_0001.N1	04-SEP-2004 20:46:58	Dark	77.500	14	58Alp Ori	0.87000	3000.0	155	13151	No
GOM_TRA_1PNPDE20040904_205149_000000572030_00071_13151_0002.N1	04-SEP-2004 20:51:49	Dark	56.500	1	9Alp CMa	-1.4400	11000.	113	13151	No
GOM_TRA_1PNPDE20040904_205601_000000842030_00071_13151_0003.N1	04-SEP-2004 20:56:01	Dark	84.000	7	19Bet Ori	0.10000	14000.	168	13151	No
GOM_TRA_1PNPDE20040904_210108_000000552030_00071_13151_0004.N1	04-SEP-2004 21:01:08	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	13151	No
GOM_TRA_1PNPDE20040904_211114_000000392030_00072_13152_0005.N1	04-SEP-2004 21:11:14	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13152	No
GOM_TRA_1PNPDE20040904_211250_000000472030_00072_13152_0006.N1	04-SEP-2004 21:12:50	Dark	47.000	9	Alp Eri	0.45300	24000.	94	13152	No
GOM_TRA_1PNPDE20040904_211649_000000452030_00072_13152_0007.N1	04-SEP-2004 21:16:49	Twilight	44.500	148	Alp Tuc	2.8780	4100.0	89	13152	No
GOM_TRA_1PNPDE20040904_211845_000000522030_00072_13152_0008.N1	04-SEP-2004 21:18:45	Twilight	52.000	84	Alp Phe	2.3970	4500.0	104	13152	No
GOM_TRA_1PNPDE20040904_212030_000000412030_00072_13152_0009.N1	04-SEP-2004 21:20:30	Twilight	40.500	31	Alp Gru	1.7340	15200.	81	13152	No
GOM_TRA_1PNPDE20040904_212318_000000412030_00072_13152_0010.N1	04-SEP-2004 21:23:18	Bright	41.000	172	Gam Gru	3.0030	13100.	82	13152	No
GOM_TRA_1PNPDE20040904_212436_000000482030_00072_13152_0011.N1	04-SEP-2004 21:24:36	Bright	48.000	18	24Alp PsA	1.1660	9700.0	96	13152	No
GOM_TRA_1PNPDE20040904_212712_000000752030_00072_13152_0012.N1	04-SEP-2004 21:27:12	Bright	75.000	52	16Bet Cet	2.0370	4500.0	150	13152	No
GOM_TRA_1PNPDE20040904_213225_000000392030_00072_13152_0013.N1	04-SEP-2004 21:32:25	Bright	39.000	154	22Bet Aqr	2.8990	5700.0	78	13152	No
GOM_TRA_1PNPDE20040904_213346_000000412030_00072_13152_0014.N1	04-SEP-2004 21:33:46	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	13152	No
GOM_TRA_1PNPDE20040904_213644_000000412030_00072_13152_0015.N1	04-SEP-2004 21:36:44	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	13152	No
GOM_TRA_1PNPDE20040904_213913_000000462030_00072_13152_0016.N1	04-SEP-2004 21:39:13	Bright	46.000	90	54Alp Peg	2.4870	11000.	92	13152	No
GOM_TRA_1PNPDE20040904_214344_000000382030_00072_13152_0017.N1	04-SEP-2004 21:43:44	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	13152	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).

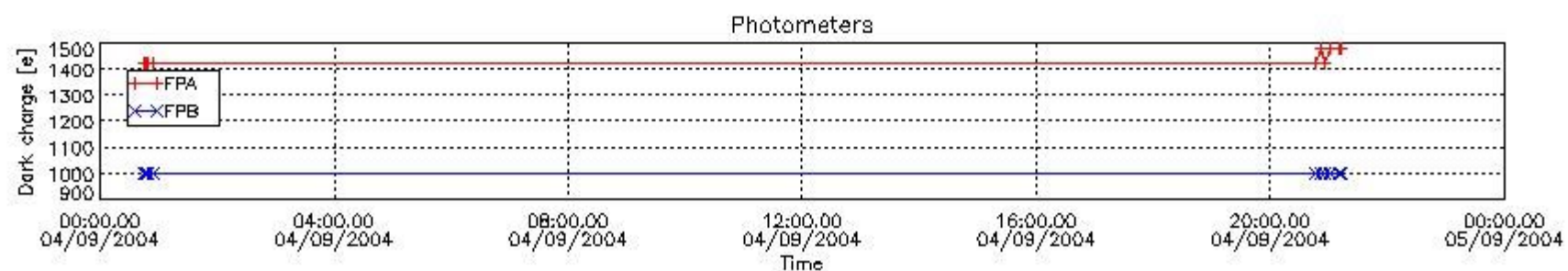
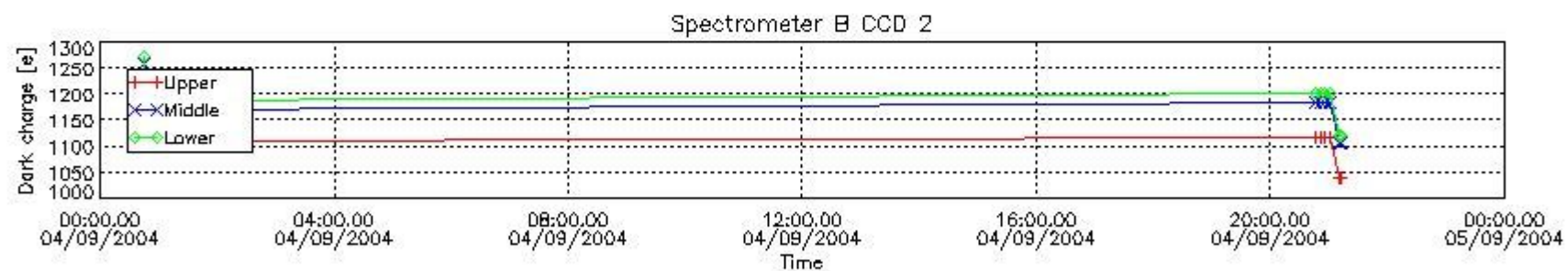
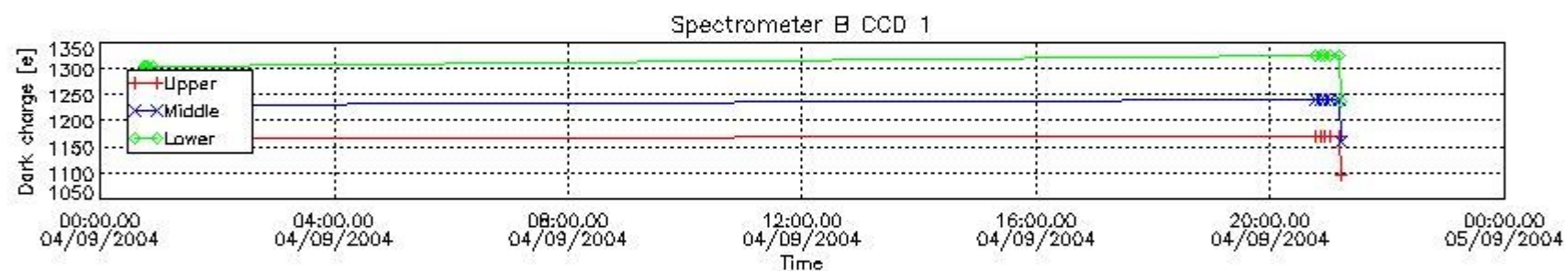
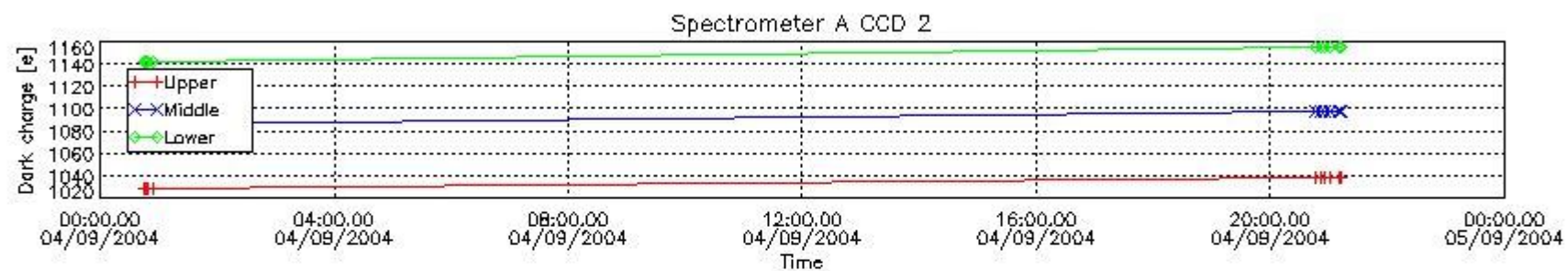
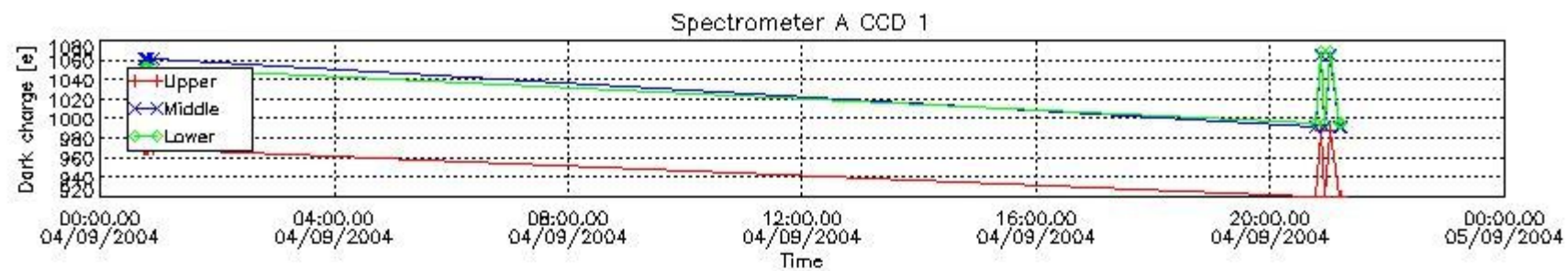
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20040904_193613_000000462030_00071_13151_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_193809_000000482030_00071_13151_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_193953_000000452030_00071_13151_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_194242_000000422030_00071_13151_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_194400_000000492030_00071_13151_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_194636_000000782030_00071_13151_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_195149_000000402030_00071_13151_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_195310_000000412030_00071_13151_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_195610_000000392030_00071_13151_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_195837_000000472030_00071_13151_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_200308_000000392030_00071_13151_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_200504_000000402030_00071_13151_0011.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_200618_000000402030_00071_13151_0012.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_201107_000000382030_00071_13151_0013.N1	DC map used (0)

GOM_TRA_1PNPDE20040904_201323_000000462030_00071_13151_0014.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_201526_000000442030_00071_13151_0015.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_201849_000000392030_00071_13151_0016.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_202227_000000582030_00071_13151_0017.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_202529_000000372030_00071_13151_0018.N1	DC map used (0)
GOM_TRA_1PNPDE20040904_202650_000000392030_00071_13151_0019.N1	DC map used (0)

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



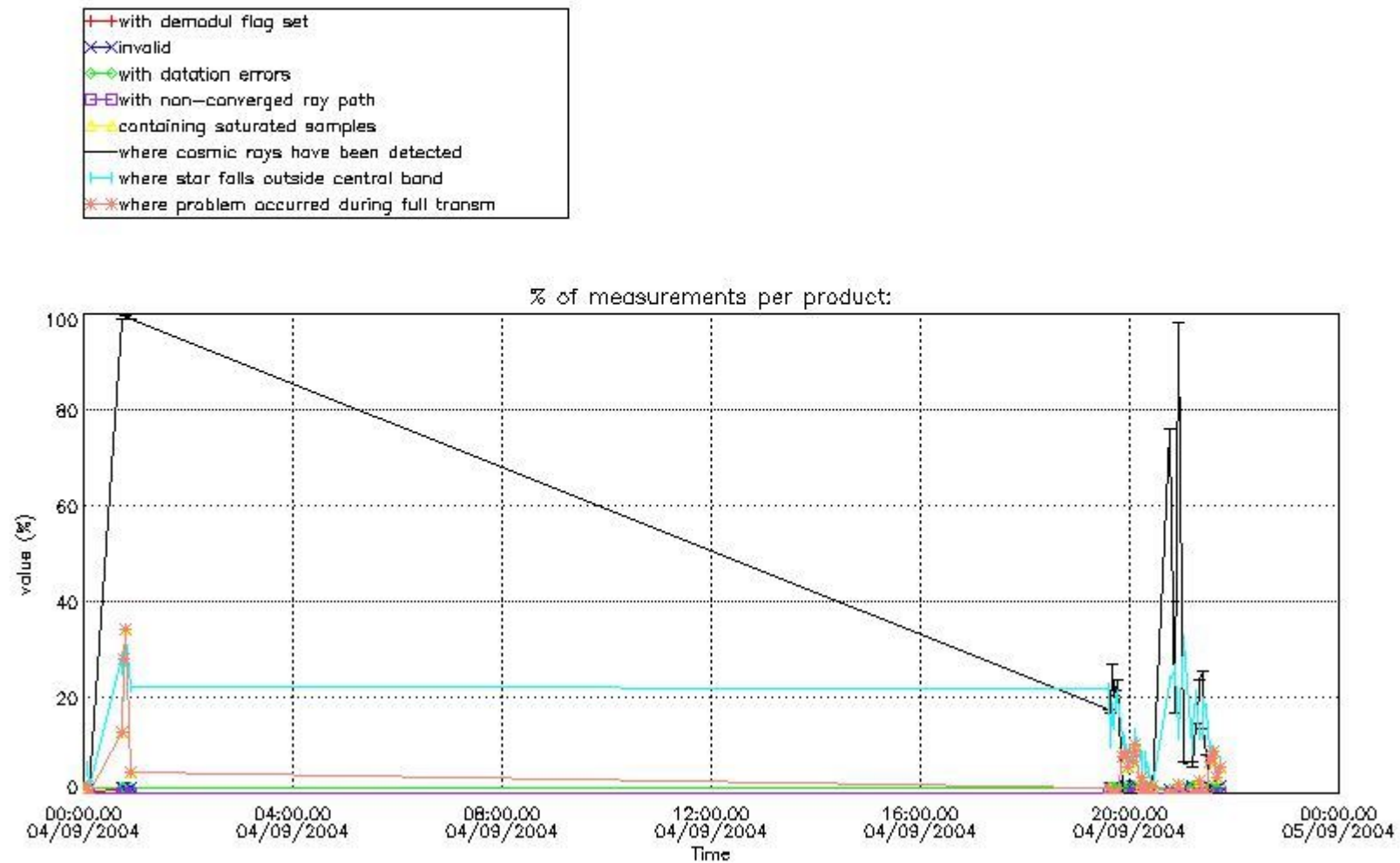
5. Demodulation flag and quality information monitoring

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.

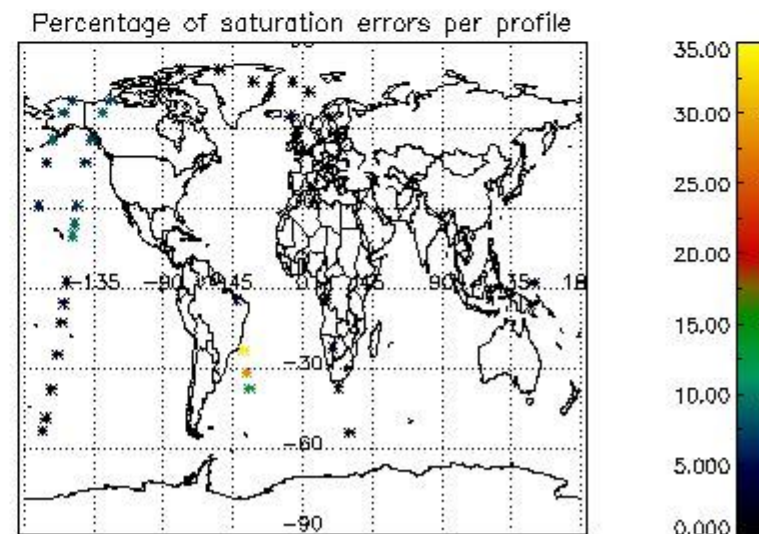
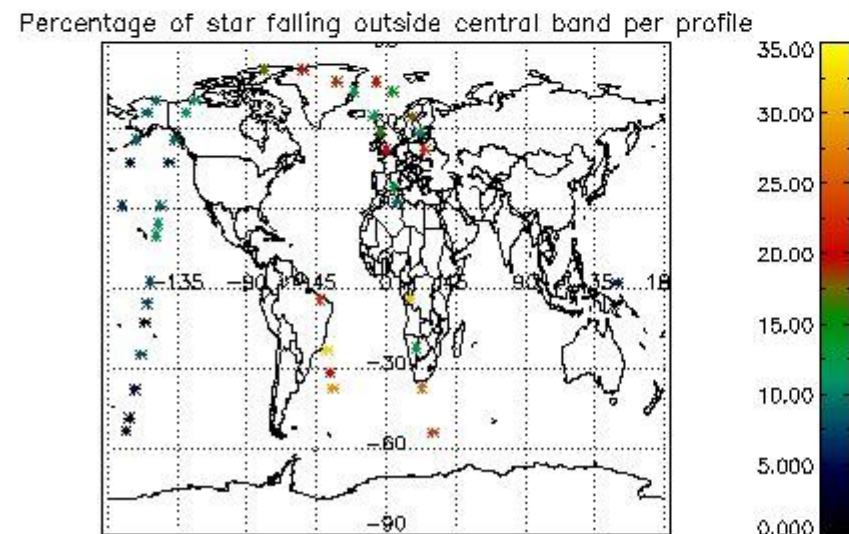
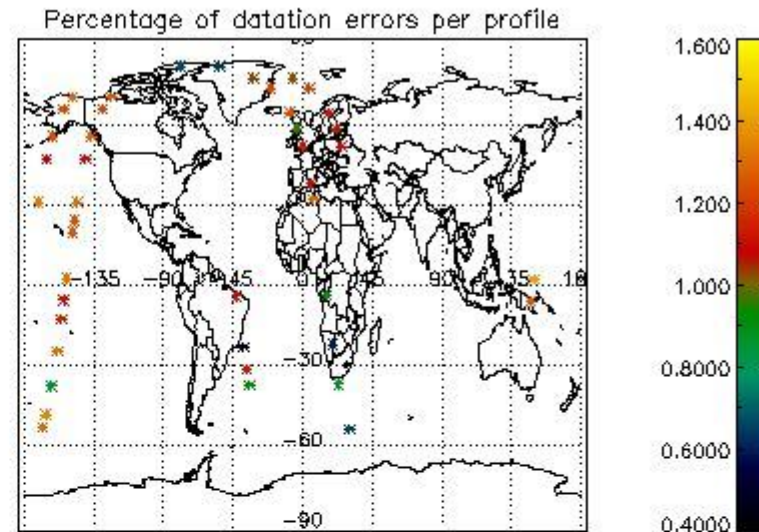
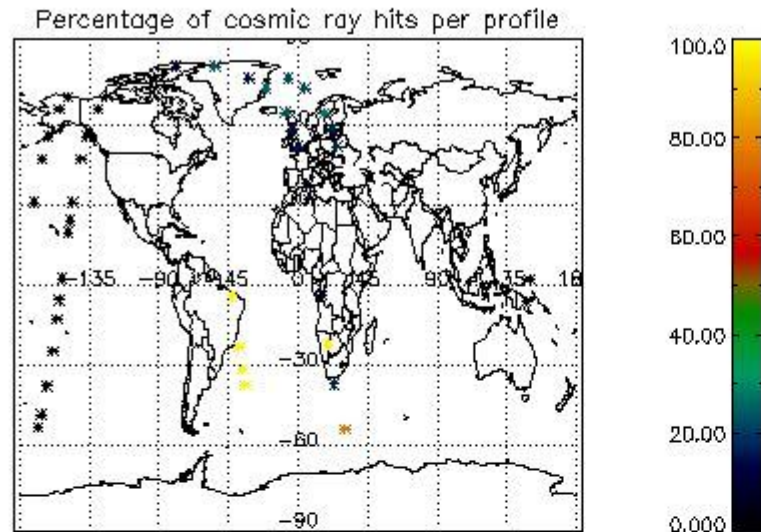
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	13.9535 %
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)



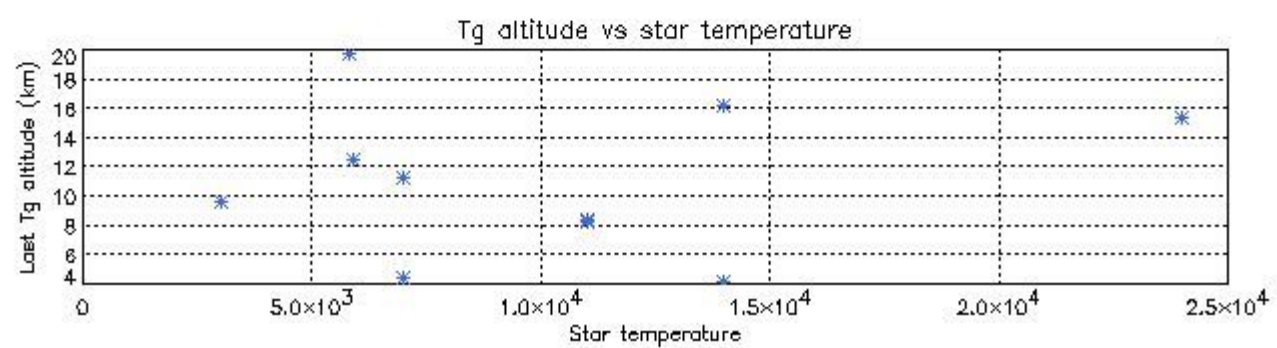
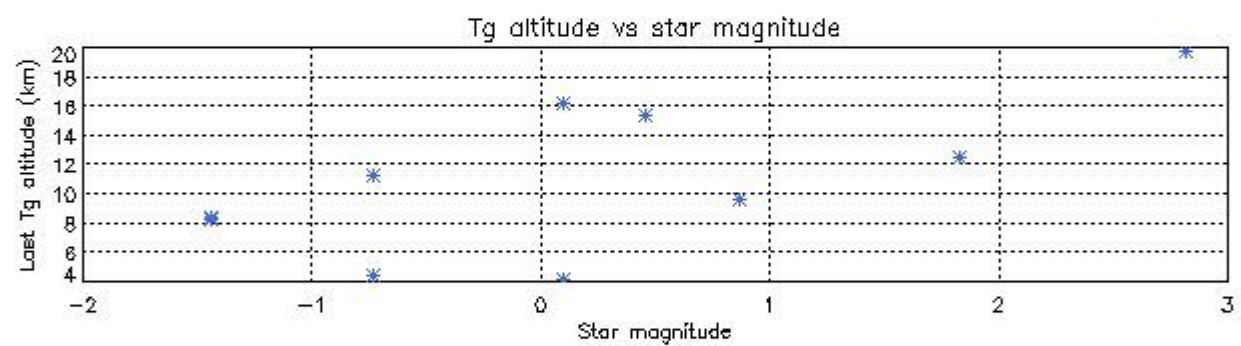
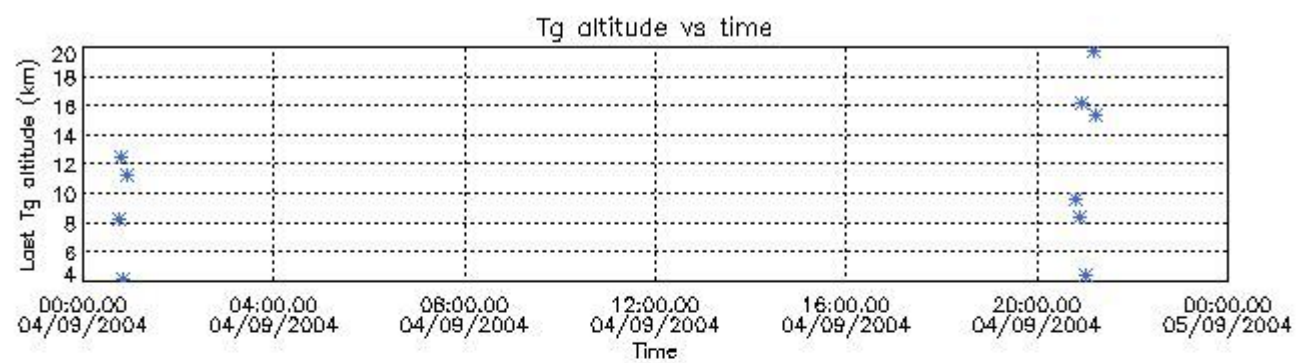
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	10.973	18.971	13.622
St. deviation:	5.0384	4.0577	3.0640
Maximum:	19.662	26.157	17.917
Minimum:	4.1804	11.587	9.8579
Number of data:	10.000	27.000	6.0000

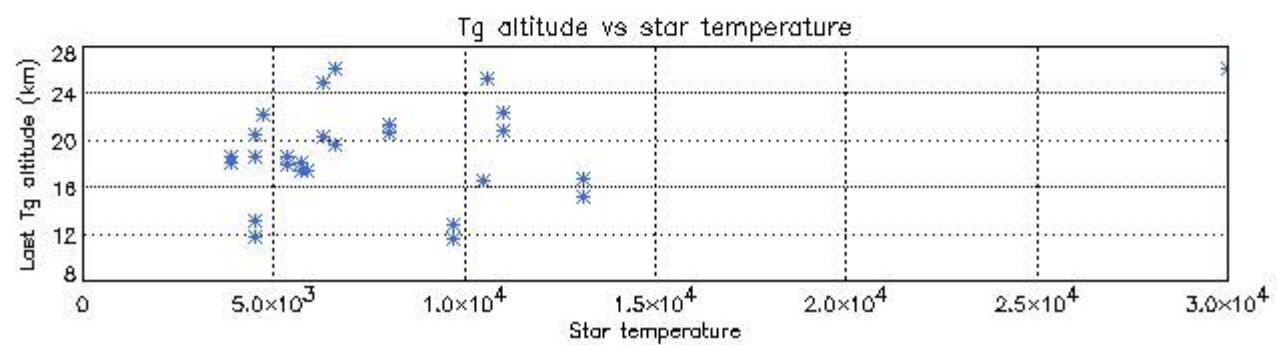
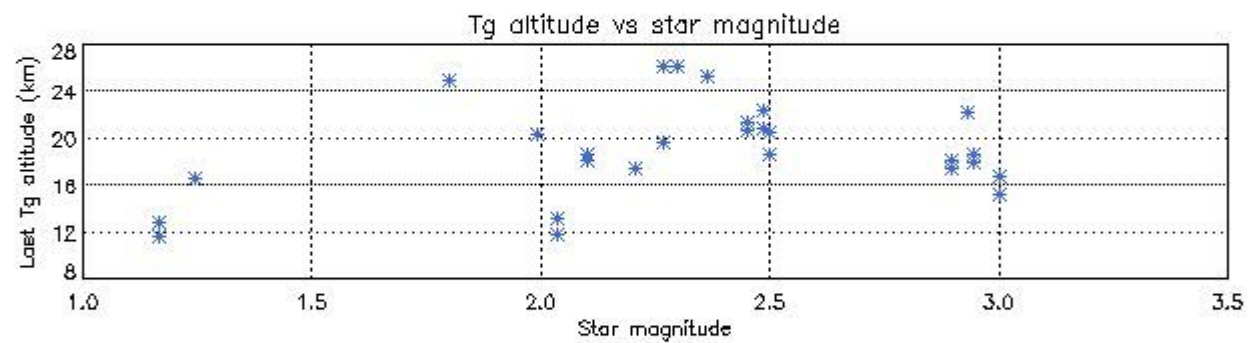
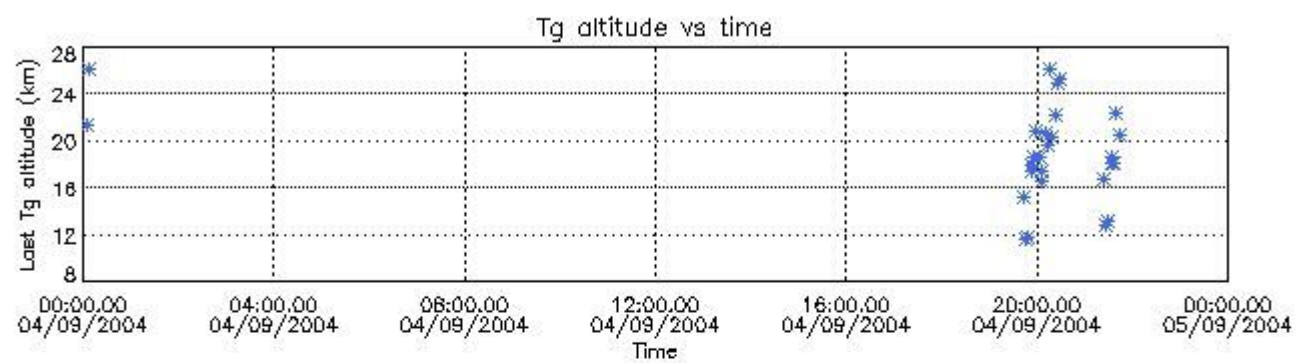
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



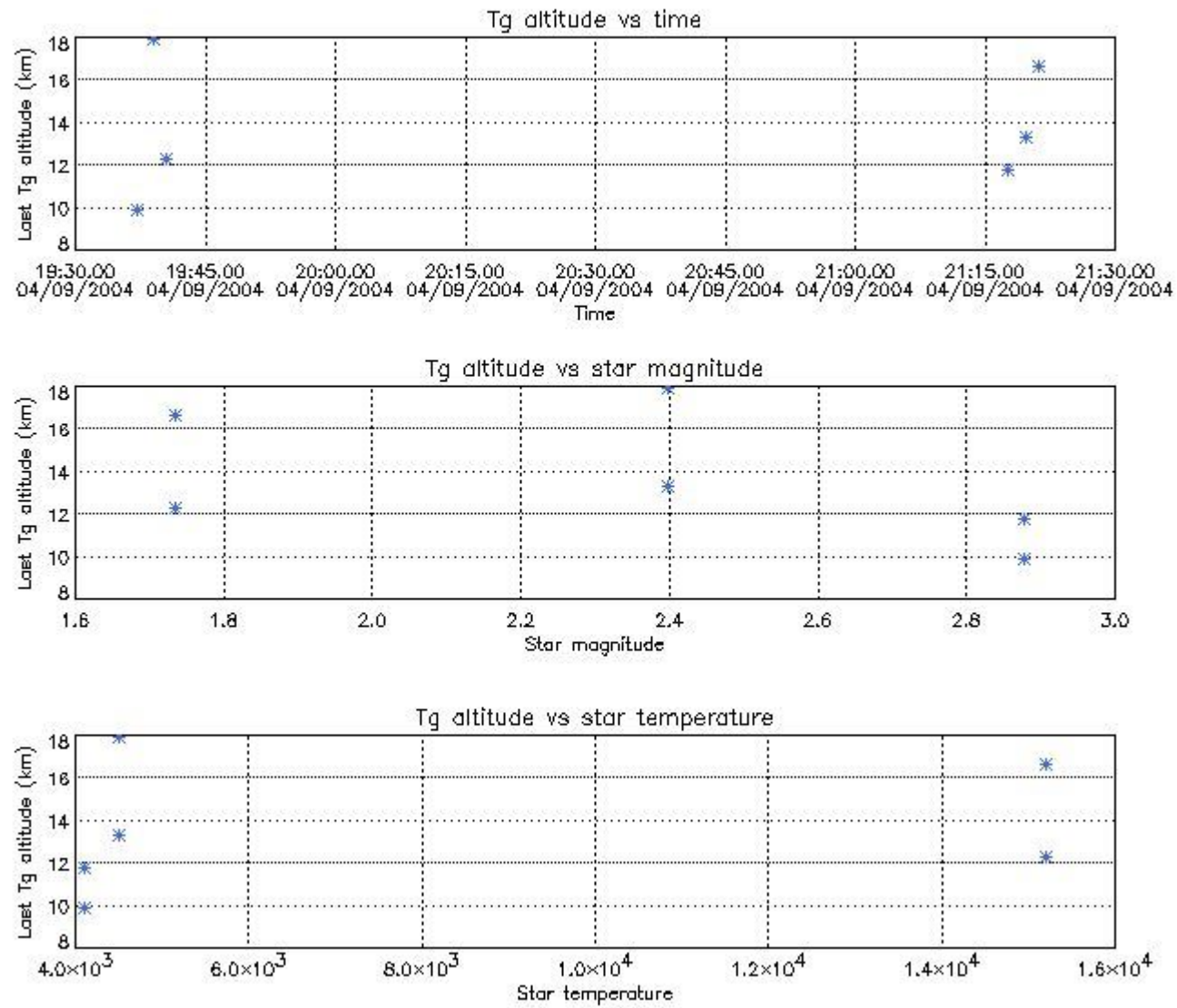
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

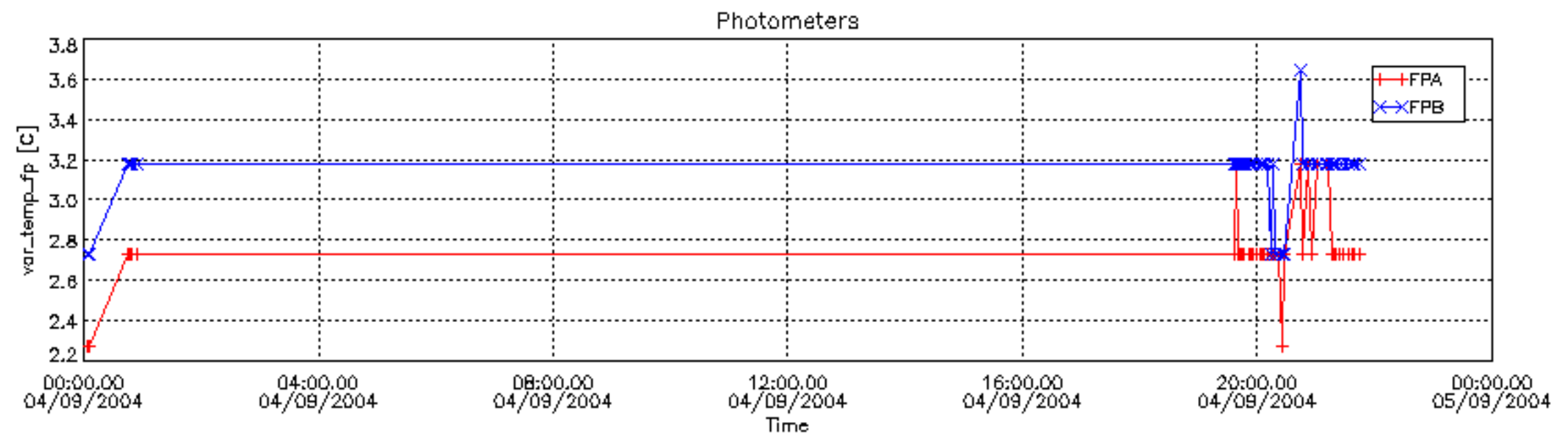
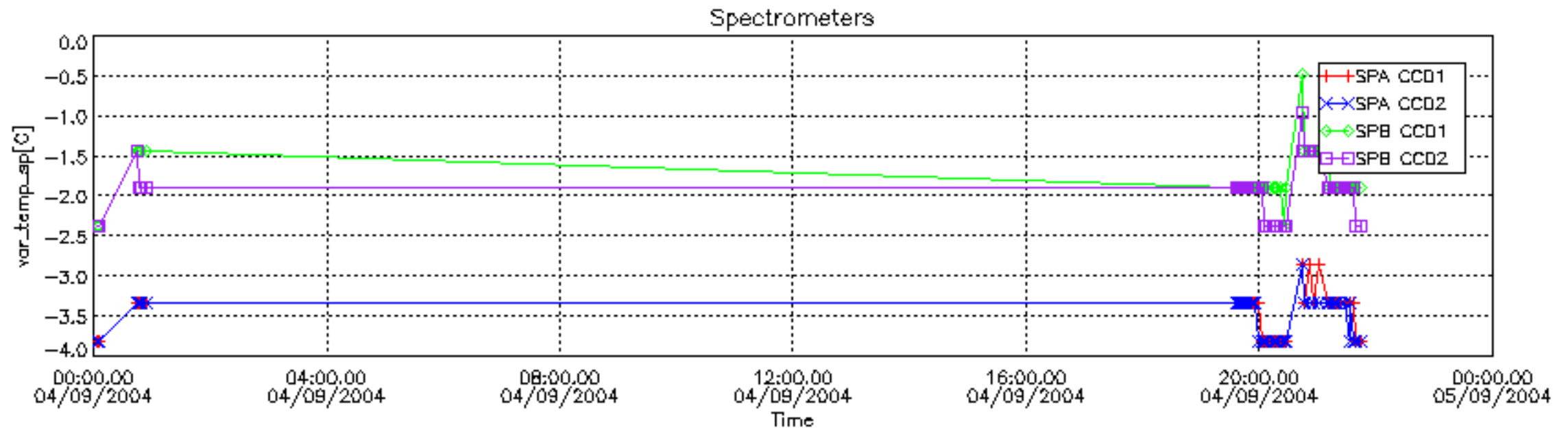
Tangent altitude at which the star is lost

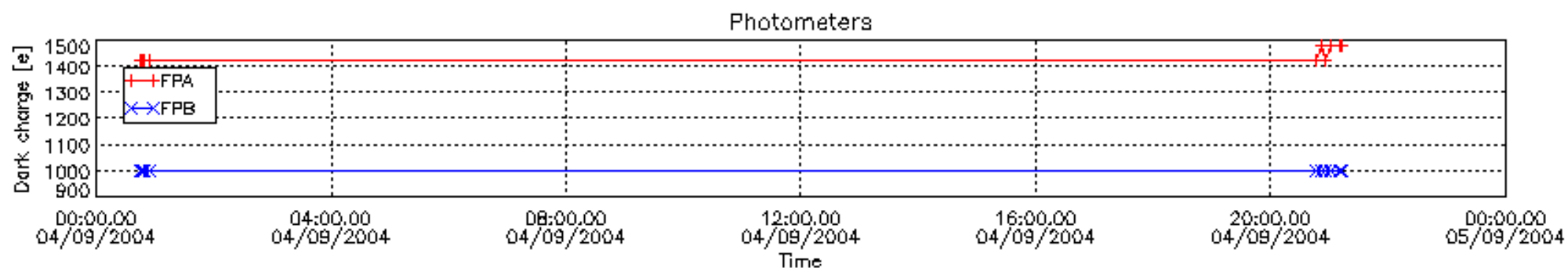
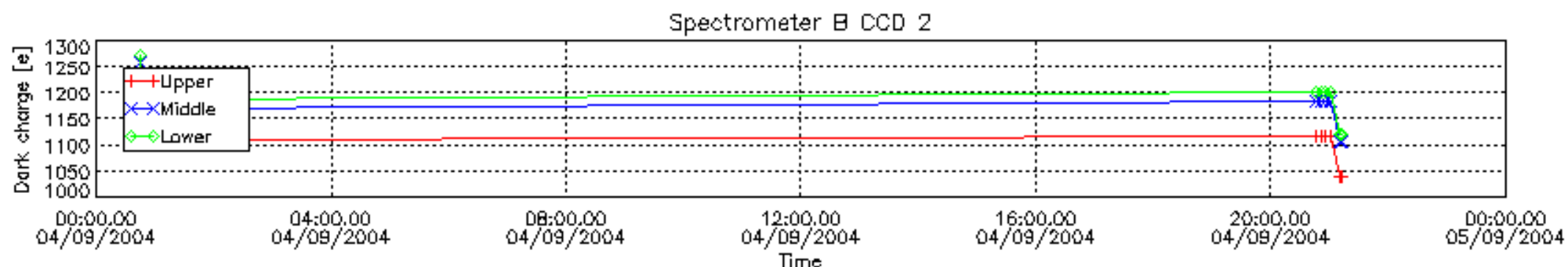
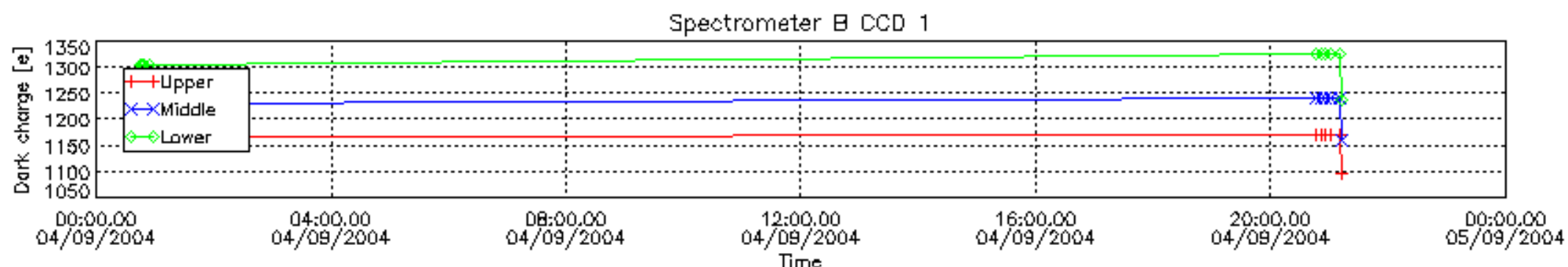
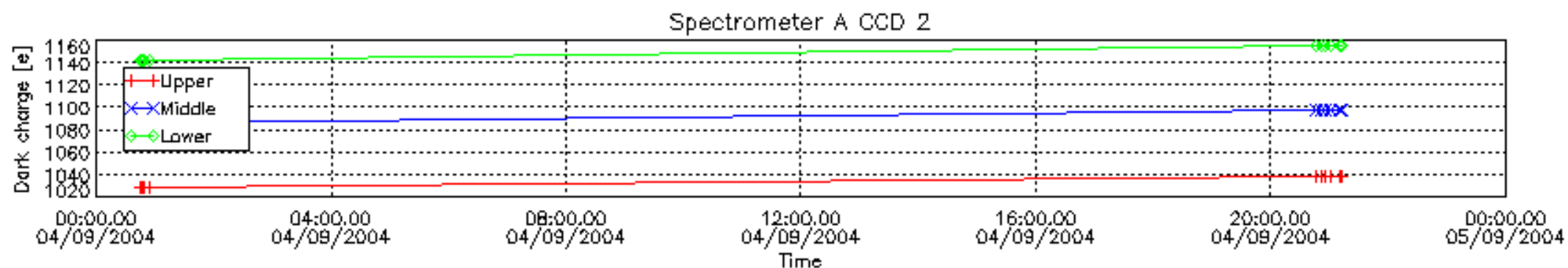
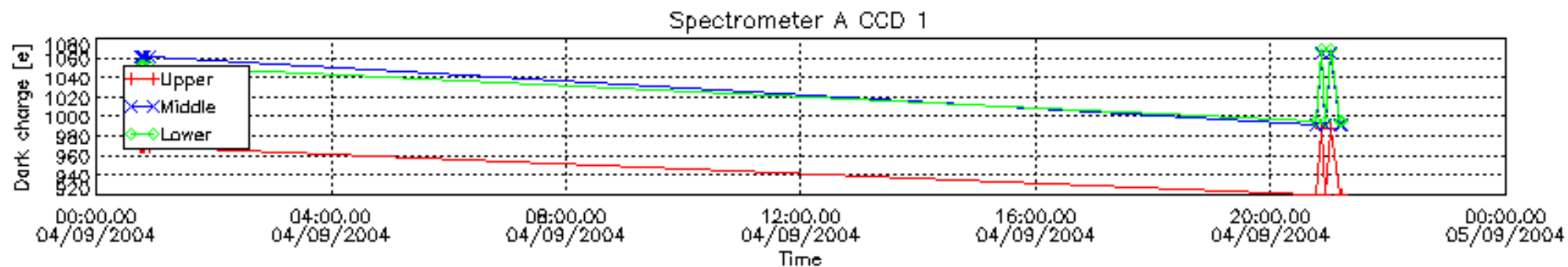


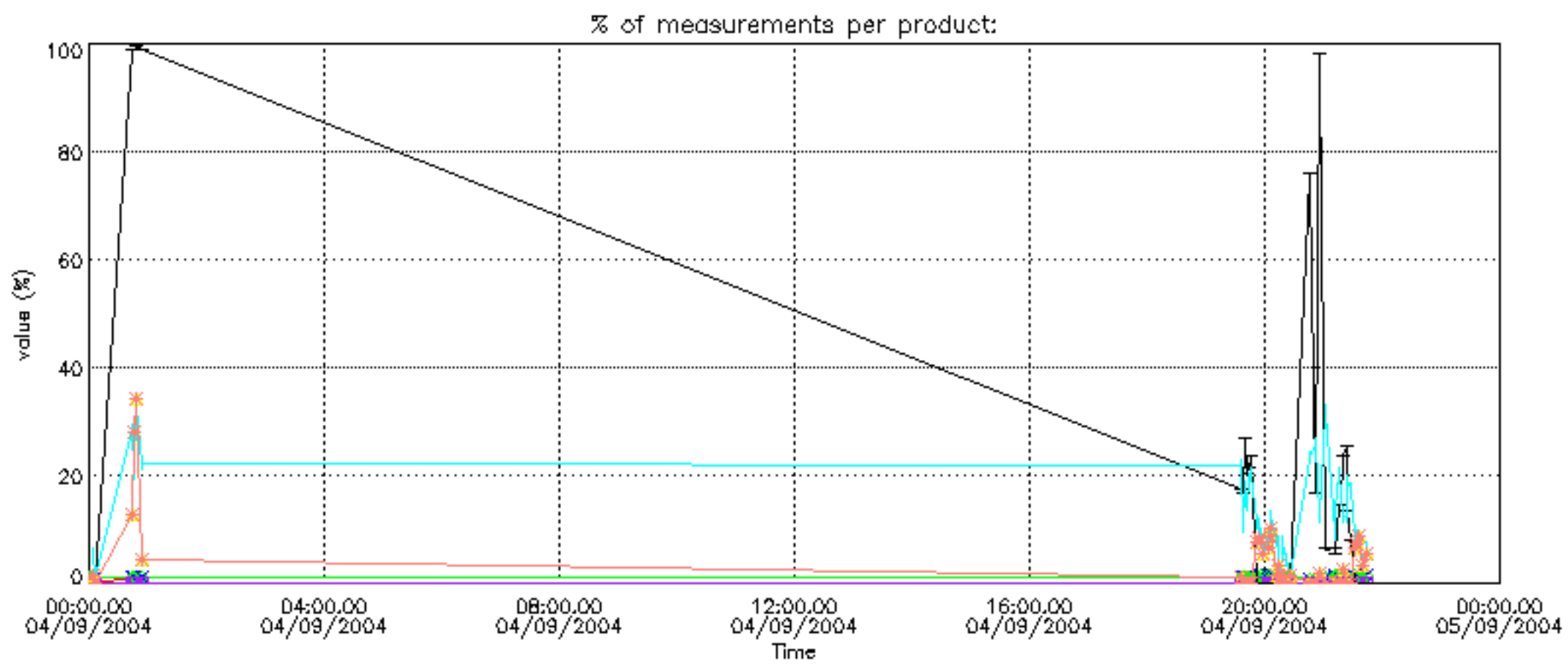
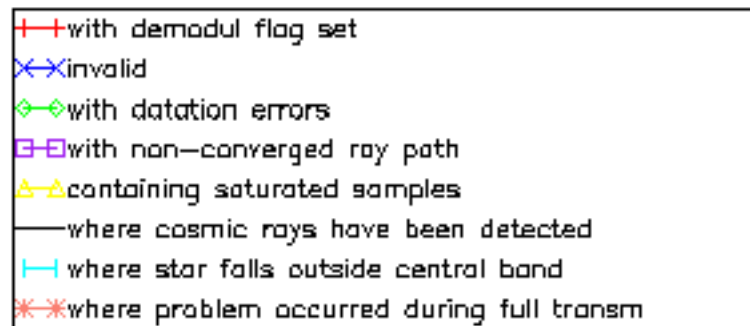
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

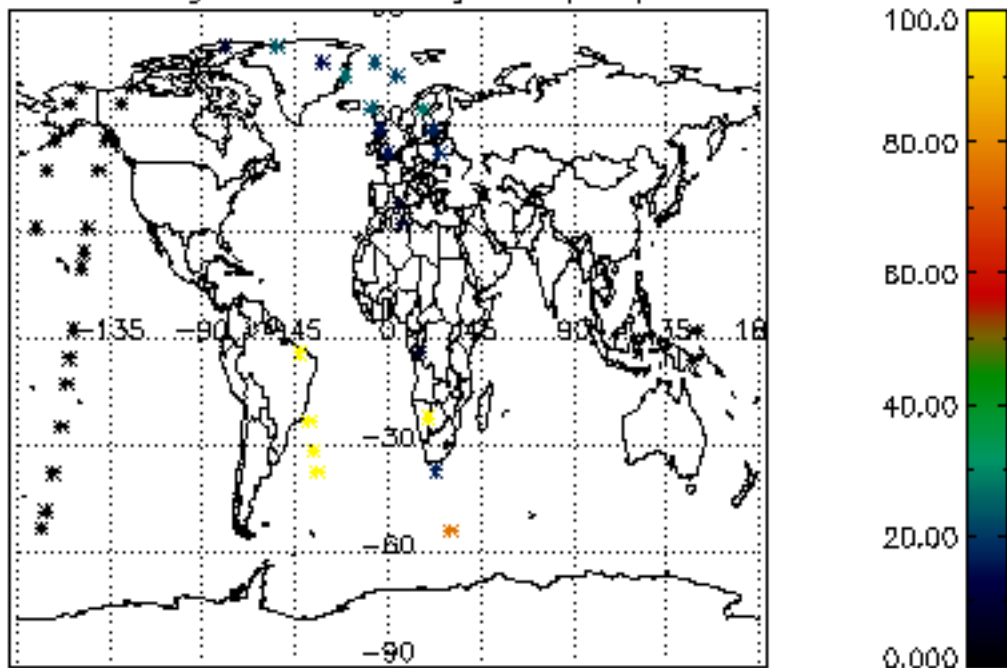
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1448.1	1461.5	1446.9
St. deviation:	2.3970	4.3155	6.7676	7.8913
Maximum:	1494.0	1509.0	1512.0	1498.0
Minimum:	1457.0	1433.0	1444.0	1418.0
Number of data:	13300.	13300.	30750.	30750.



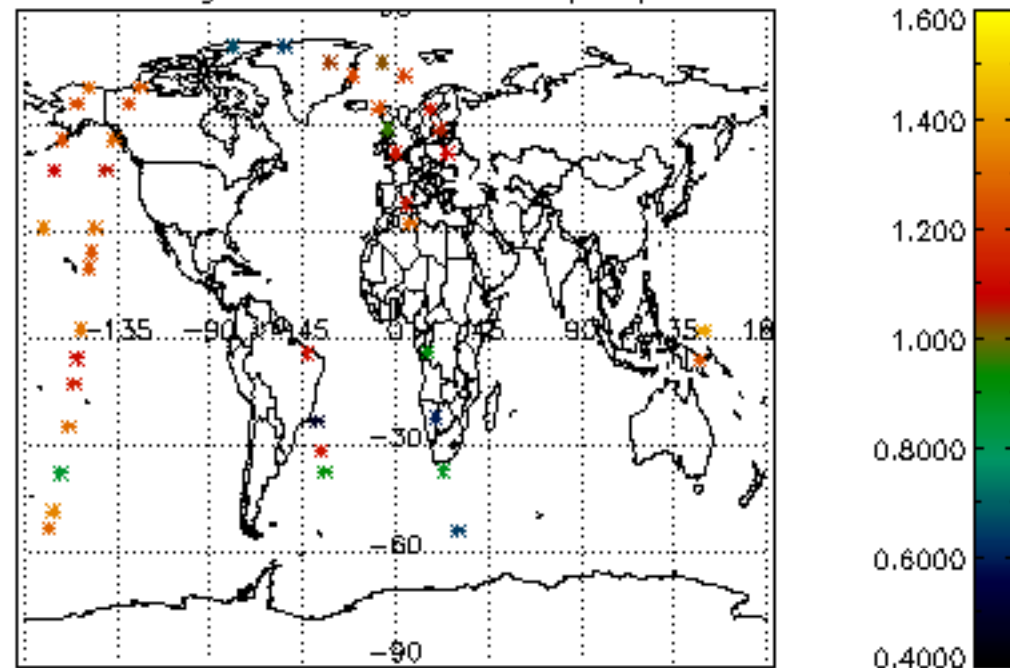




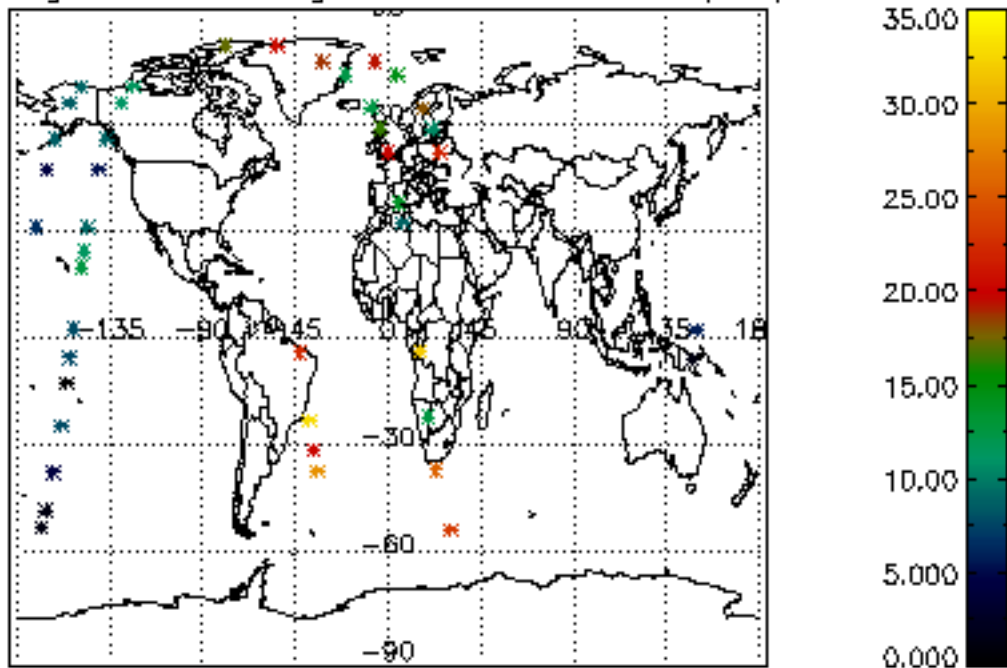
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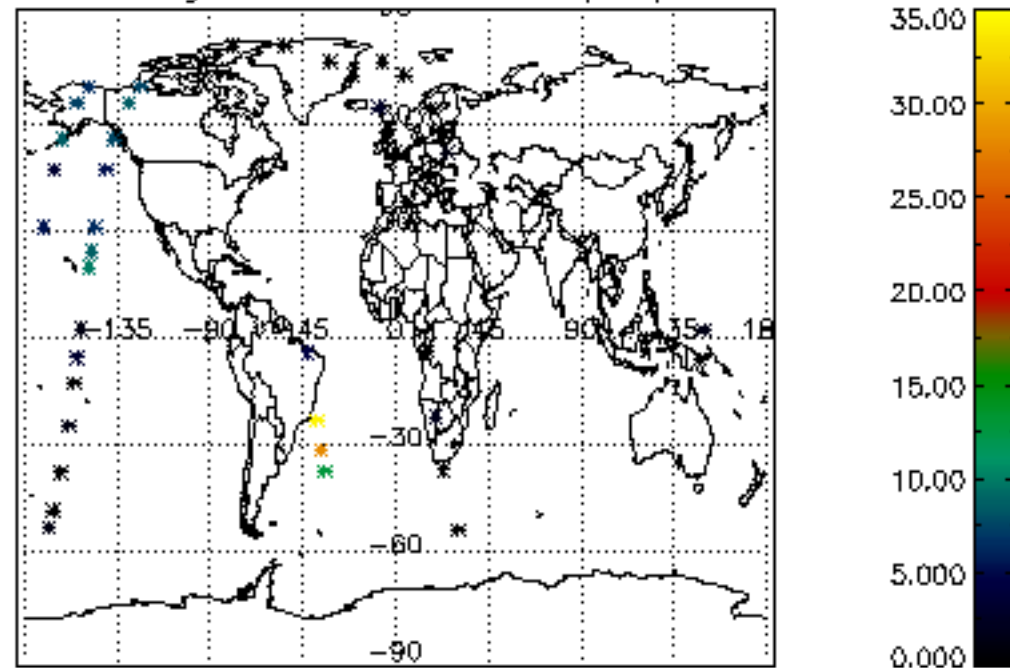
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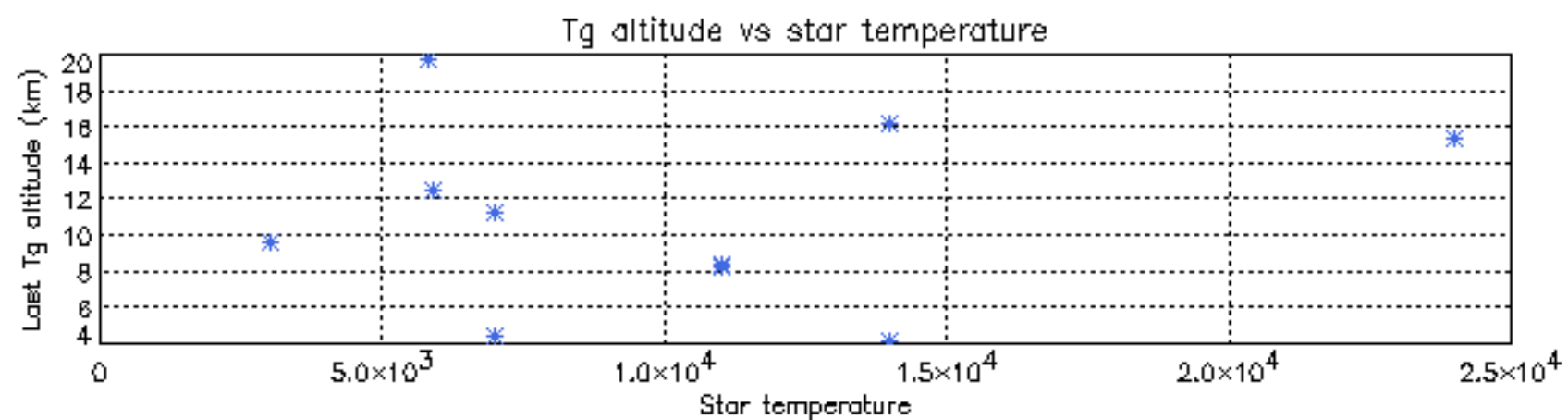
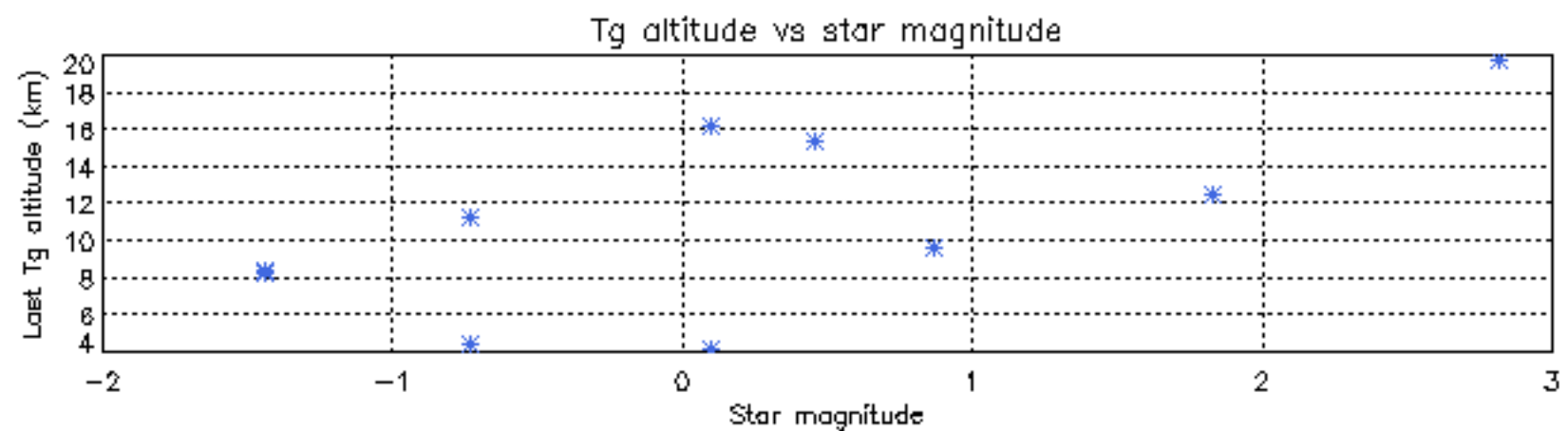
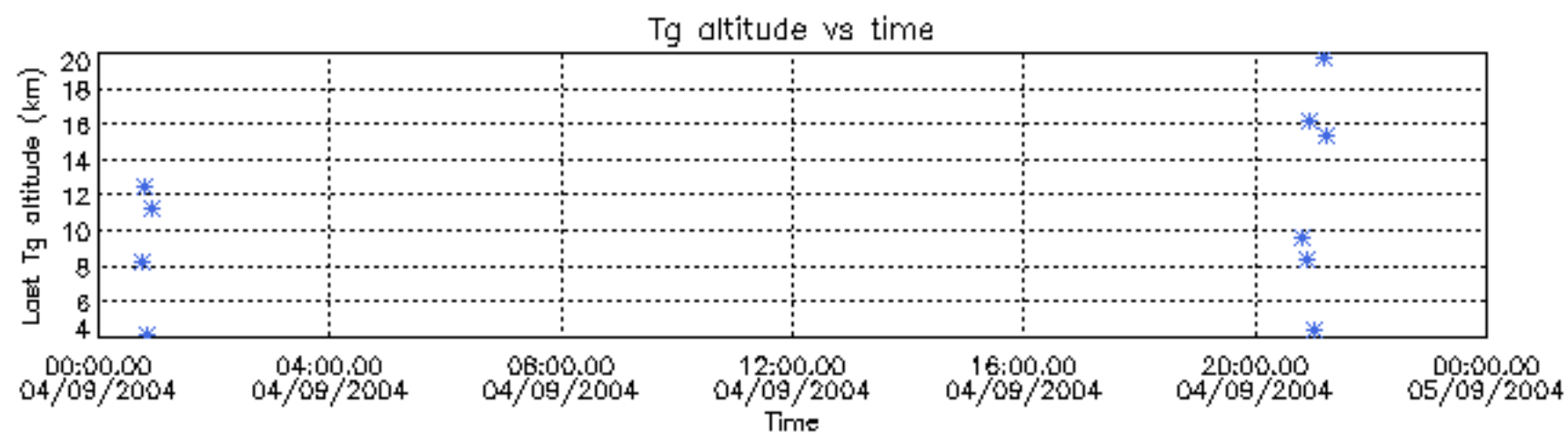
Percentage of star falling outside central band per profile



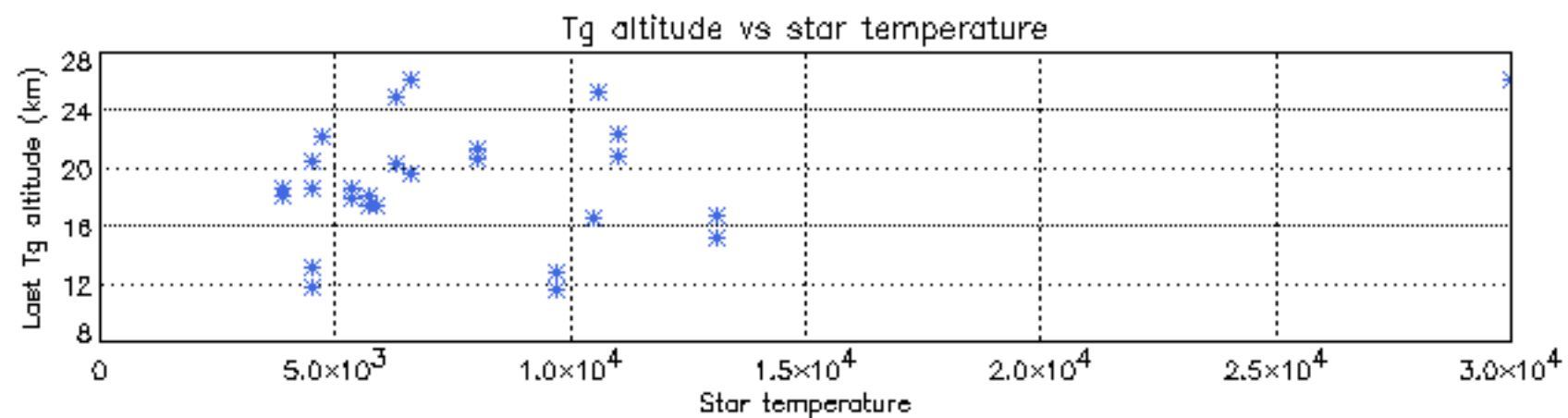
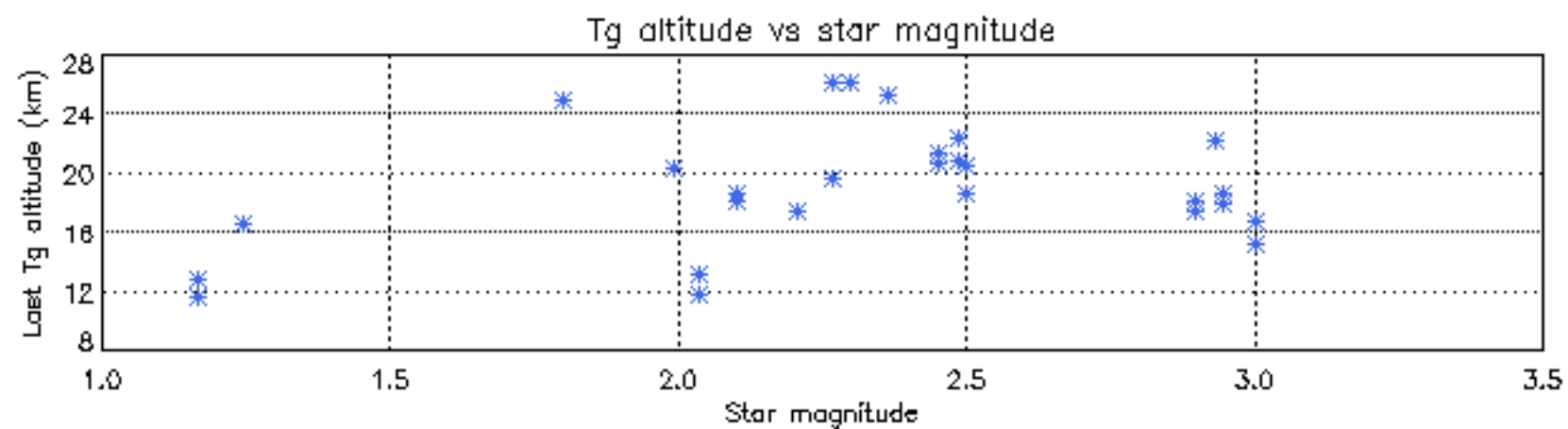
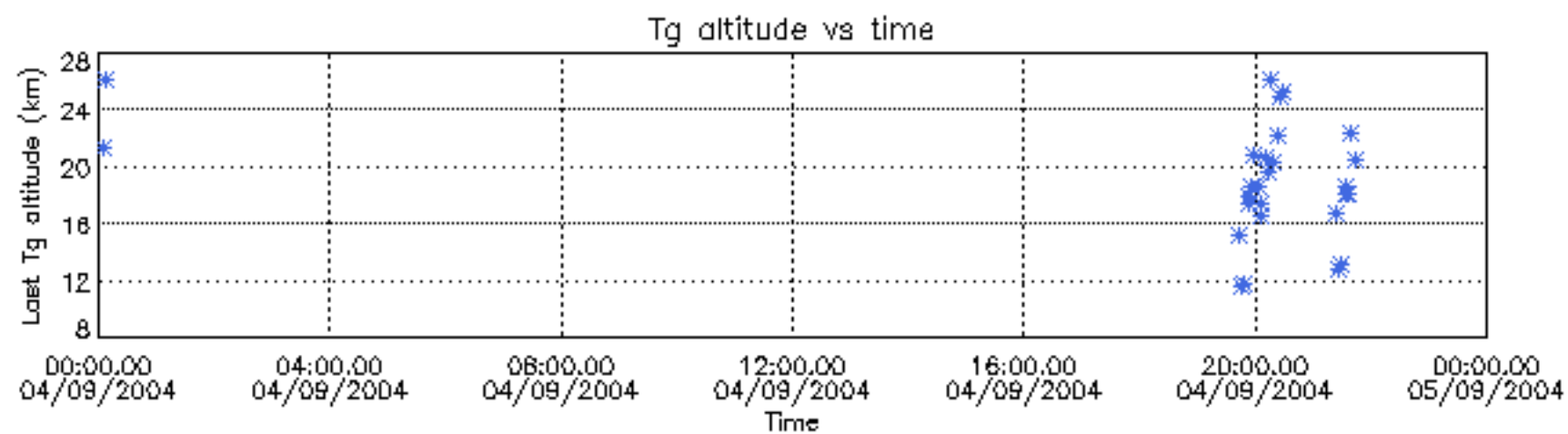
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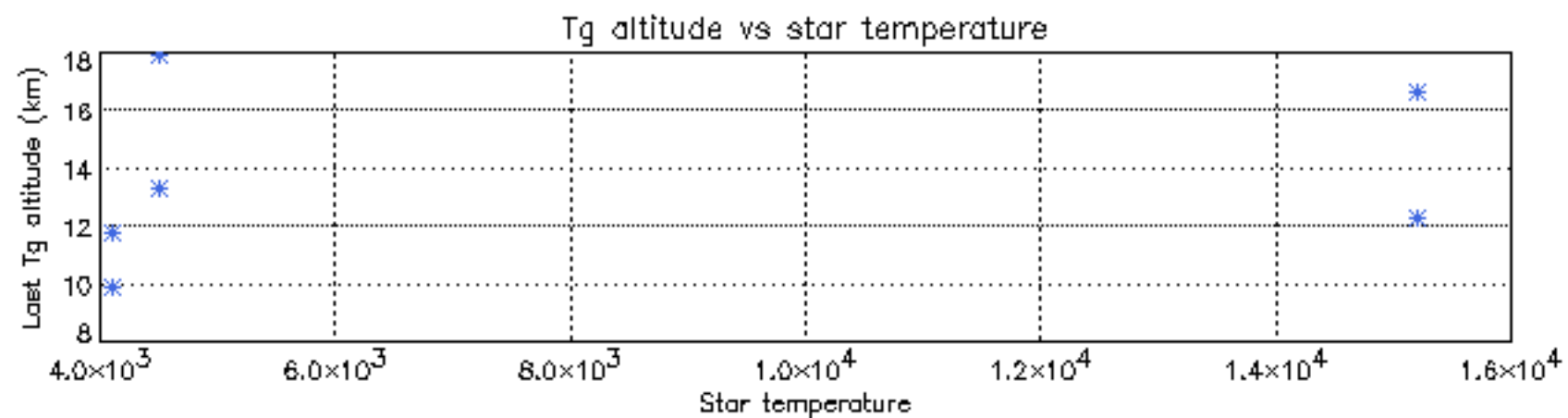
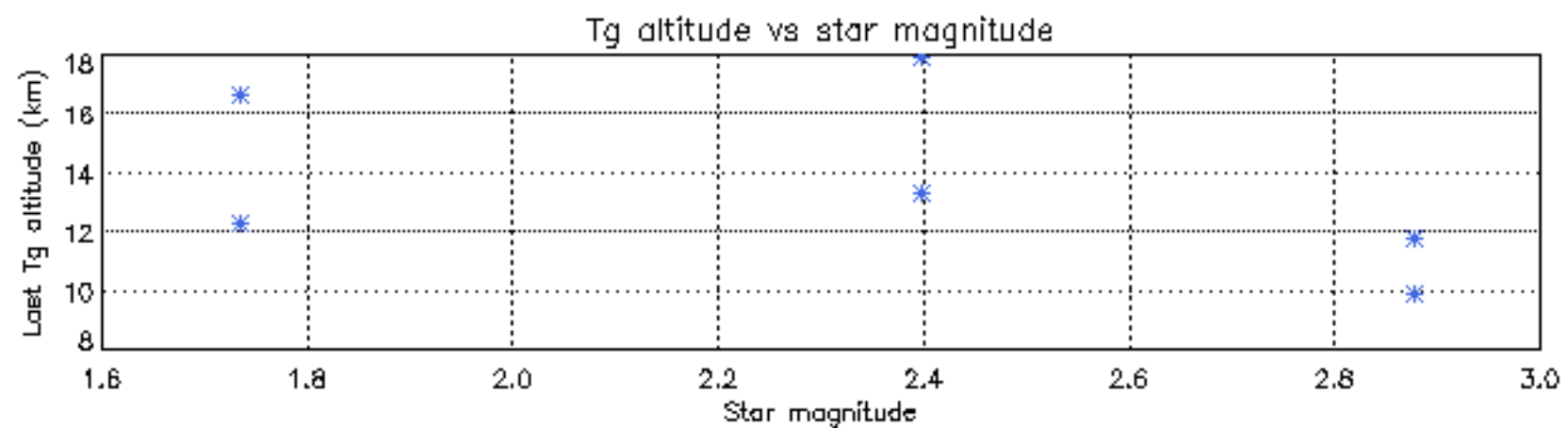
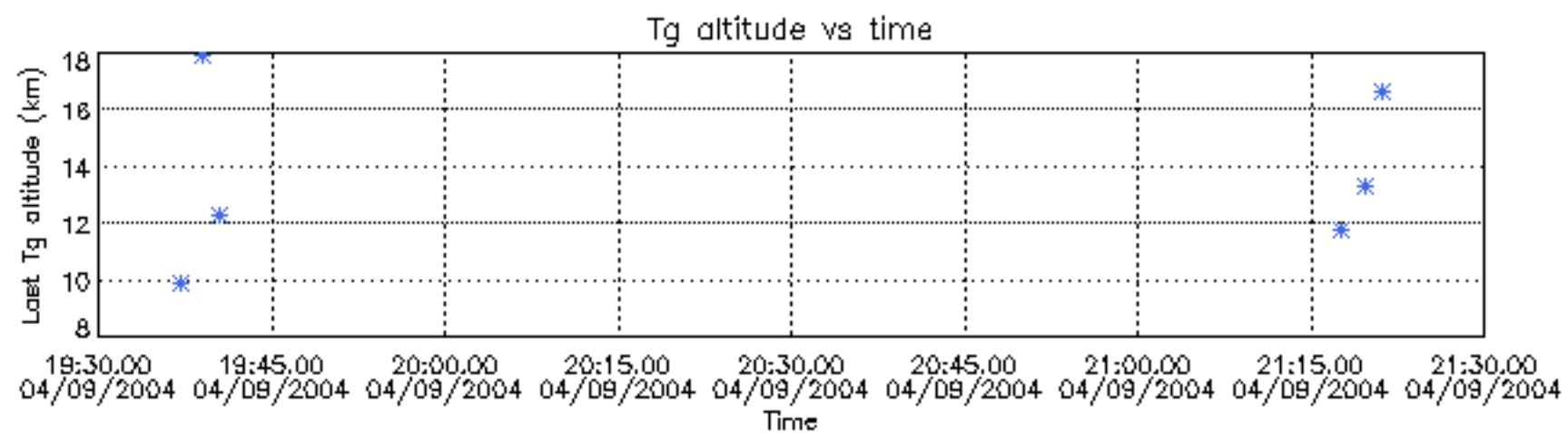
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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32; 541.1; 05-SEP-2004 17:18:25; Dark ; 44.0; 135; Bet Hyi ; 2.82; 5800;occ; 88; 0;13164
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26; 3430.6; 06-SEP-2004 22:36:45; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;13181
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31; 4377.6; 06-SEP-2004 22:52:32; Bright; 49.0; 107; 37The Aur ; 2.65; 11000;occ; 98; 0;13181
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6; -50.9; 06-SEP-2004 23:19:19; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;13181
7; 547.2; 06-SEP-2004 23:29:17; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;13182
8; 652.5; 06-SEP-2004 23:31:03; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;13182

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12; 1271.5; 06-SEP-2004 23:41:22; Dark ; 40.5; 172; Gam Gru ; 3.00; 13100;occ; 81; 0;13182
13; 1348.2; 06-SEP-2004 23:42:38; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;13182
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16; 1891.7; 06-SEP-2004 23:51:42; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;13182
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```

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 28; 668.3; 08-SEP-2004 14:05:04; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;13205
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7; -35.4; 08-SEP-2004 22:16:21; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;13209
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22; 2738.5; 08-SEP-2004 23:02:34; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;13210
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 33; 4844.0; 08-SEP-2004 23:37:40; Dark ; 62.0; 44; 24Gam Gem ; 1.93; 11000;occ; 124; 0;13210
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 23; 3190.5; 09-SEP-2004 00:50:42; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;13211
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```


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 31; 681.5; 10-SEP-2004 09:40:52; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;13231
 32; 891.6; 10-SEP-2004 09:44:22; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;13231
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 36; 1513.0; 10-SEP-2004 09:54:43; Dark ; 72.5; 52; 16Bet Cet ; 2.04; 4500;occ; 145; 0;13231
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```

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29; 713.1; 14-SEP-2004 09:15:30; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;13288
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31; 1124.0; 14-SEP-2004 09:22:21; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;13288
32; 1291.1; 14-SEP-2004 09:25:08; Dark ; 38.5; 172; Gam Gru ; 3.00; 13100;occ; 77; 0;13288
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28; 713.2; 14-SEP-2004 10:56:06; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;13289
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3; -4651.0; 17-SEP-2004 17:55:26; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;13336

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22;-1478.7; 17-SEP-2004 18:48:18; Bright; 50.0; 17; 78Bet Gem ; 1.16; 4500;occ; 100; 0;13336
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31; 575.7; 17-SEP-2004 19:22:33; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;13337
32; 737.4; 17-SEP-2004 19:25:14; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;13337
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25; 45.7; 18-SEP-2004 08:38:30; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;13345

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23; 2793.4; 20-SEP-2004 03:19:15; Bright; 58.5; 53; 43Bet And ; 2.05; 3300;occ; 117; 0;13370
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32; 540.2; 03-SEP-2004 20:02:14; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;13137
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23; 1534.6; 20-SEP-2004 06:19:28; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;13372
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