

# GOMOS Daily Report 07-MAY-2004

## Level 0 and Level 1 products

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### 1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	08MAY2004 03:41:30
Data source version	GOMOS/4.02
Start time of products	07-MAY-2004 (07MAY2004 00:00:00)
Stop time of products	08-MAY-2004 (08MAY2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	1

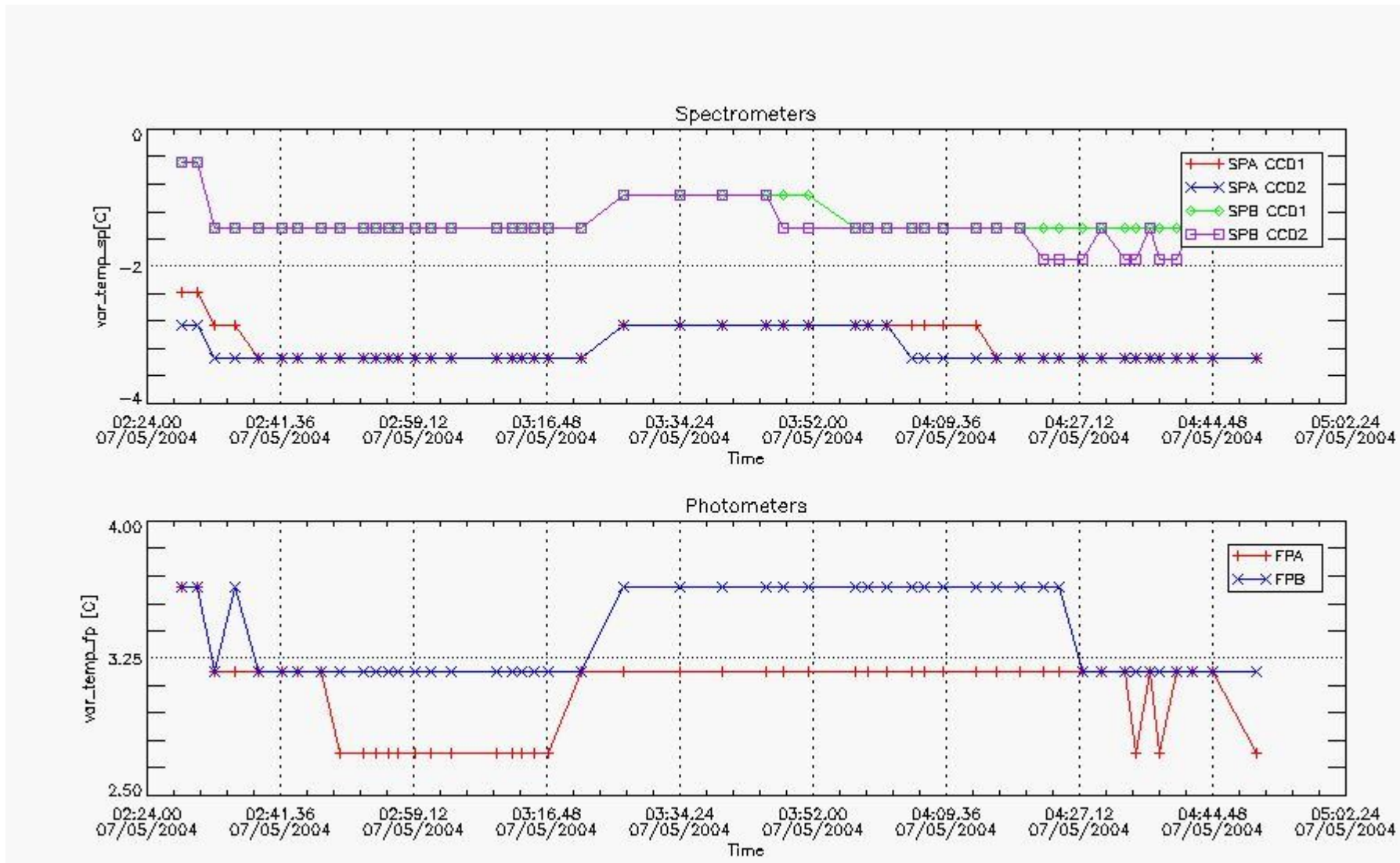
## 2. Summary of products arrived in PCF

### 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_1PNPDE20040507_022832_000000682026_00347_11423_0000.N1	07-MAY-2004 02:28:32	Bright	68.000	16	21Alp Sco	1.0200	3000.0	136	11423	No
GOM_TRA_1PNPDE20040507_023031_000000582026_00347_11423_0000.N1	07-MAY-2004 02:30:31	Bright	57.500	80	7Del Sco	2.3160	30000.	115	11423	Yes
GOM_TRA_1PNPDE20040507_023251_000000802026_00347_11423_0001.N1	07-MAY-2004 02:32:51	Bright	80.000	86	35Eta Oph	2.4300	10200.	160	11423	No
GOM_TRA_1PNPDE20040507_023531_000000442026_00347_11423_0002.N1	07-MAY-2004 02:35:31	Bright	44.000	104	27Bet Lib	2.6140	13100.	88	11423	No
GOM_TRA_1PNPDE20040507_023839_000000382026_00347_11423_0003.N1	07-MAY-2004 02:38:39	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	11423	No
GOM_TRA_1PNPDE20040507_024151_000000372026_00347_11423_0004.N1	07-MAY-2004 02:41:51	Bright	36.500	138	47Eps Vir	2.8280	4700.0	73	11423	No
GOM_TRA_1PNPDE20040507_024349_000000382026_00347_11423_0005.N1	07-MAY-2004 02:43:49	Bright	38.000	111	8Eta Boo	2.6800	6000.0	76	11423	No
GOM_TRA_1PNPDE20040507_024701_000000432026_00347_11423_0006.N1	07-MAY-2004 02:47:01	Bright	42.500	83		2.3780	11000.	85	11423	No
GOM_TRA_1PNPDE20040507_024929_000000372026_00347_11423_0007.N1	07-MAY-2004 02:49:29	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	11423	No
GOM_TRA_1PNPDE20040507_025240_000000392026_00347_11423_0008.N1	07-MAY-2004 02:52:40	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	11423	No
GOM_TRA_1PNPDE20040507_025408_000000372026_00347_11423_0009.N1	07-MAY-2004 02:54:08	Bright	37.000	55	79Zet UMa	2.0600	10200.	74	11423	No
GOM_TRA_1PNPDE20040507_025552_000000362026_00347_11423_0010.N1	07-MAY-2004 02:55:52	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	11423	No
GOM_TRA_1PNPDE20040507_025706_000000352026_00347_11423_0011.N1	07-MAY-2004 02:57:06	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	11423	No
GOM_TRA_1PNPDE20040507_025921_000000442026_00347_11423_0012.N1	07-MAY-2004 02:59:21	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	11423	No
GOM_TRA_1PNPDE20040507_030127_000000512026_00347_11423_0013.N1	07-MAY-2004 03:01:27	Bright	50.500	130	23Bet Dra	2.7990	5800.0	101	11423	No
GOM_TRA_1PNPDE20040507_030411_000000362026_00347_11423_0014.N1	07-MAY-2004 03:04:11	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	11423	No
GOM_TRA_1PNPDE20040507_031004_000000462026_00347_11423_0015.N1	07-MAY-2004 03:10:04	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	11423	No
GOM_TRA_1PNPDE20040507_031218_000000372026_00347_11423_0016.N1	07-MAY-2004 03:12:18	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	11423	No
GOM_TRA_1PNPDE20040507_031333_000000382026_00347_11423_0017.N1	07-MAY-2004 03:13:33	Bright	38.000	68	18Alp Cas	2.2250	4500.0	76	11423	No
GOM_TRA_1PNPDE20040507_031506_000000642026_00347_11423_0018.N1	07-MAY-2004 03:15:06	Bright	64.000	19	50Alp Cyg	1.2460	10500.	128	11423	No
GOM_TRA_1PNPDE20040507_031705_000000842026_00347_11423_0019.N1	07-MAY-2004 03:17:05	Twilight	83.500	66	37Gam Cyg	2.2080	5900.0	167	11423	No
GOM_TRA_1PNPDE20040507_032126_000001002026_00347_11423_0020.N1	07-MAY-2004 03:21:26	Twilight	99.500	92	53Eps Cyg	2.5000	4500.0	199	11423	No
GOM_TRA_1PNPDE20040507_032652_000000502026_00347_11423_0021.N1	07-MAY-2004 03:26:52	Twilight	50.000	90	54Alp Peg	2.4870	11000.	100	11423	No
GOM_TRA_1PNPDE20040507_033423_000000462026_00347_11423_0022.N1	07-MAY-2004 03:34:23	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	11423	No
GOM_TRA_1PNPDE20040507_034000_000000482026_00347_11423_0023.N1	07-MAY-2004 03:40:00	Dark	47.500	18	24Alp PsA	1.1660	9700.0	95	11423	No
GOM_TRA_1PNPDE20040507_034550_000000462026_00347_11423_0024.N1	07-MAY-2004 03:45:50	Dark	46.000	31	Alp Gru	1.7340	15200.	92	11423	No
GOM_TRA_1PNPDE20040507_034807_000000402026_00348_11424_0025.N1	07-MAY-2004 03:48:07	Dark	39.500	148	Alp Tuc	2.8780	4100.0	79	11424	No
GOM_TRA_1PNPDE20040507_035124_000000432026_00348_11424_0026.N1	07-MAY-2004 03:51:24	Dark	42.500	45	Alp Pav	1.9400	26000.	85	11424	No
GOM_TRA_1PNPDE20040507_035731_000000422026_00348_11424_0027.N1	07-MAY-2004 03:57:31	Dark	42.000	43	Alp TrA	1.9100	4250.0	84	11424	No
GOM_TRA_1PNPDE20040507_035908_000000392026_00348_11424_0028.N1	07-MAY-2004 03:59:08	Dark	38.500	145	Gam TrA	2.8720	10600.	77	11424	No
GOM_TRA_1PNPDE20040507_040137_000000462026_00348_11424_0029.N1	07-MAY-2004 04:01:37	Twilight	45.500	4	Alp1Cen	-0.010000	5800.0	91	11424	No
GOM_TRA_1PNPDE20040507_040507_000000392026_00348_11424_0030.N1	07-MAY-2004 04:05:07	Bright	39.000	78	Alp Lup	2.3040	28000.	78	11424	No
GOM_TRA_1PNPDE20040507_040638_000000402026_00348_11424_0031.N1	07-MAY-2004 04:06:38	Bright	39.500	81	Eta Cen	2.3560	28000.	79	11424	No
GOM_TRA_1PNPDE20040507_040909_000000652026_00348_11424_0032.N1	07-MAY-2004 04:09:09	Bright	65.000	16	21Alp Sco	1.0200	3000.0	130	11424	No
GOM_TRA_1PNPDE20040507_041327_000000812026_00348_11424_0000.N1	07-MAY-2004 04:13:27	Bright	81.000	86	35Eta Oph	2.4300	10200.	162	11424	No
GOM_TRA_1PNPDE20040507_041607_000000442026_00348_11424_0001.N1	07-MAY-2004 04:16:07	Bright	44.000	104	27Bet Lib	2.6140	13100.	88	11424	No
GOM_TRA_1PNPDE20040507_041916_000000372026_00348_11424_0002.N1	07-MAY-2004 04:19:16	Bright	37.000	121	29Gam Vir	2.7400	7200.0	74	11424	No
GOM_TRA_1PNPDE20040507_042228_000000372026_00348_11424_0003.N1	07-MAY-2004 04:22:28	Bright	36.500	138	47Eps Vir	2.8280	4700.0	73	11424	No
GOM_TRA_1PNPDE20040507_042425_000000382026_00348_11424_0004.N1	07-MAY-2004 04:24:25	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	11424	No
GOM_TRA_1PNPDE20040507_042737_000000442026_00348_11424_0005.N1	07-MAY-2004 04:27:37	Bright	44.000	83		2.3780	11000.	88	11424	No
GOM_TRA_1PNPDE20040507_043005_000000362026_00348_11424_0006.N1	07-MAY-2004 04:30:05	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	11424	No
GOM_TRA_1PNPDE20040507_043316_000000382026_00348_11424_0007.N1	07-MAY-2004 04:33:16	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	11424	No
GOM_TRA_1PNPDE20040507_043444_000000382026_00348_11424_0008.N1	07-MAY-2004 04:34:44	Bright	38.000	55	79Zet UMa	2.0600	10200.	76	11424	No
GOM_TRA_1PNPDE20040507_043628_000000392026_00348_11424_0009.N1	07-MAY-2004 04:36:28	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	11424	No
GOM_TRA_1PNPDE20040507_043742_000000392026_00348_11424_0010.N1	07-MAY-2004 04:37:42	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	11424	No
GOM_TRA_1PNPDE20040507_043957_000000412026_00348_11424_0011.N1	07-MAY-2004 04:39:57	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	11424	No
GOM_TRA_1PNPDE20040507_044202_000000552026_00348_11424_0012.N1	07-MAY-2004 04:42:02	Bright	55.000	130	23Bet Dra	2.7990	5800.0	110	11424	No
GOM_TRA_1PNPDE20040507_044447_000000382026_00348_11424_0013.N1	07-MAY-2004 04:44:47	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	11424	No
GOM_TRA_1PNPDE20040507_045040_000000442026_00348_11424_0014.N1	07-MAY-2004 04:50:40	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	11424	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).

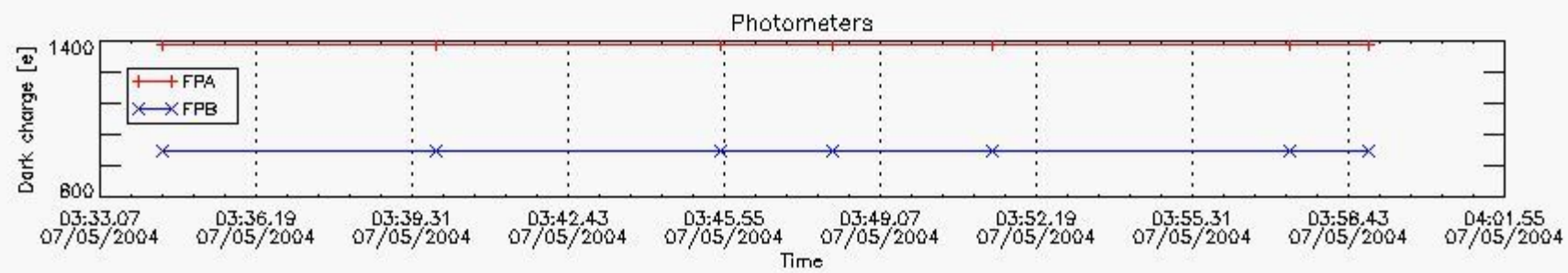
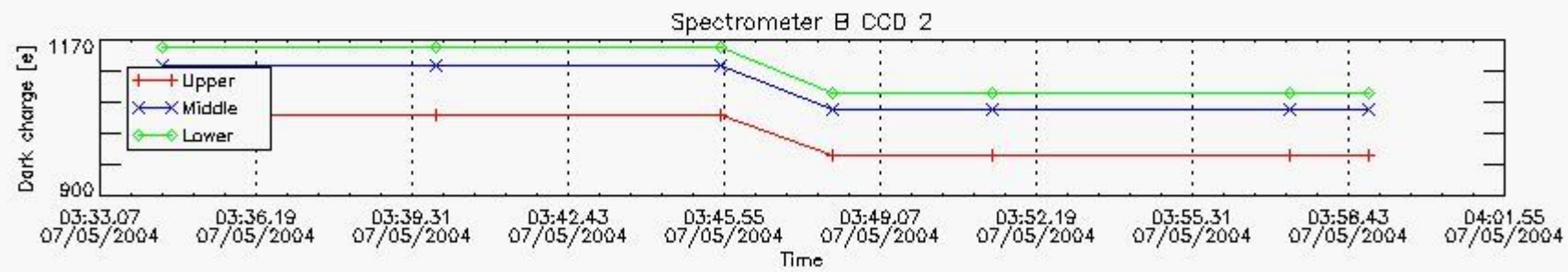
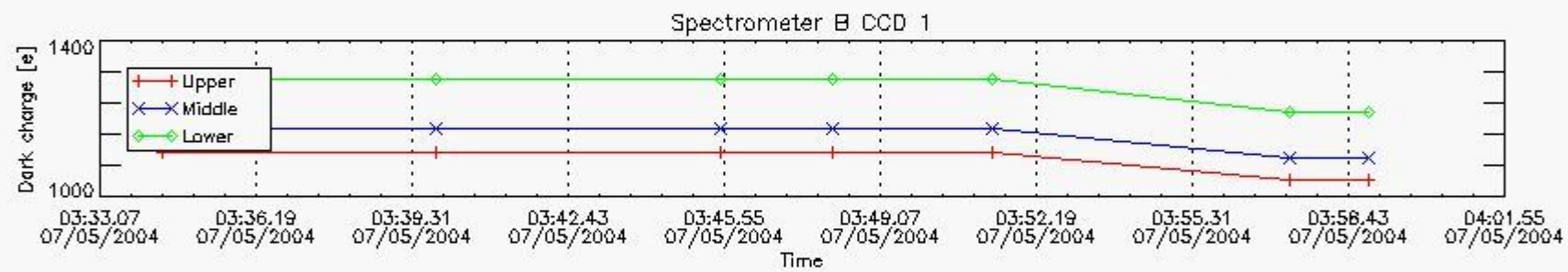
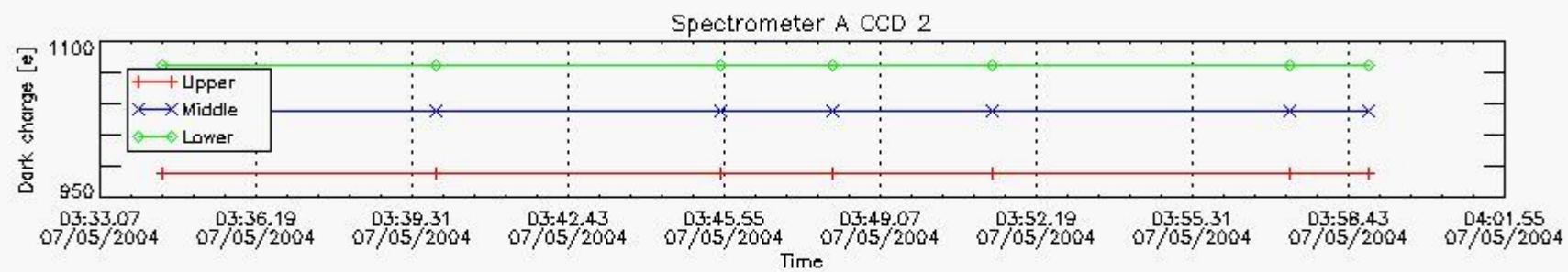
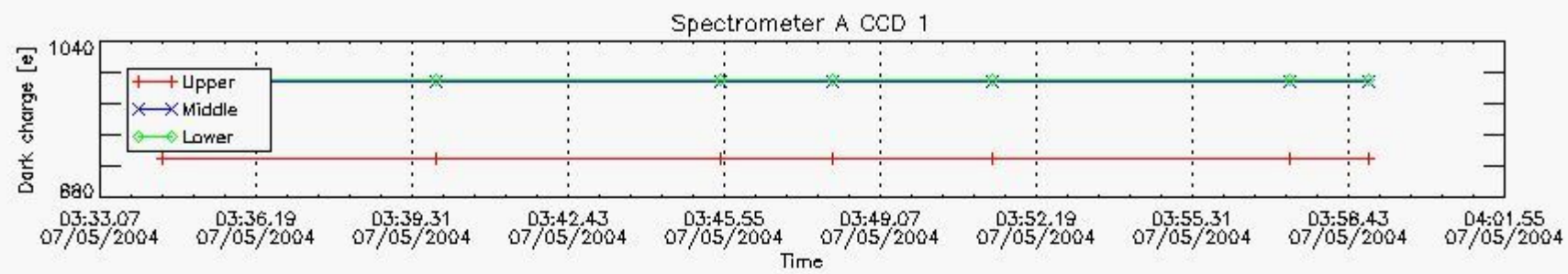
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20040507_022832_000000682026_00347_11423_0000.N1	DC map with no T dep. (12)

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





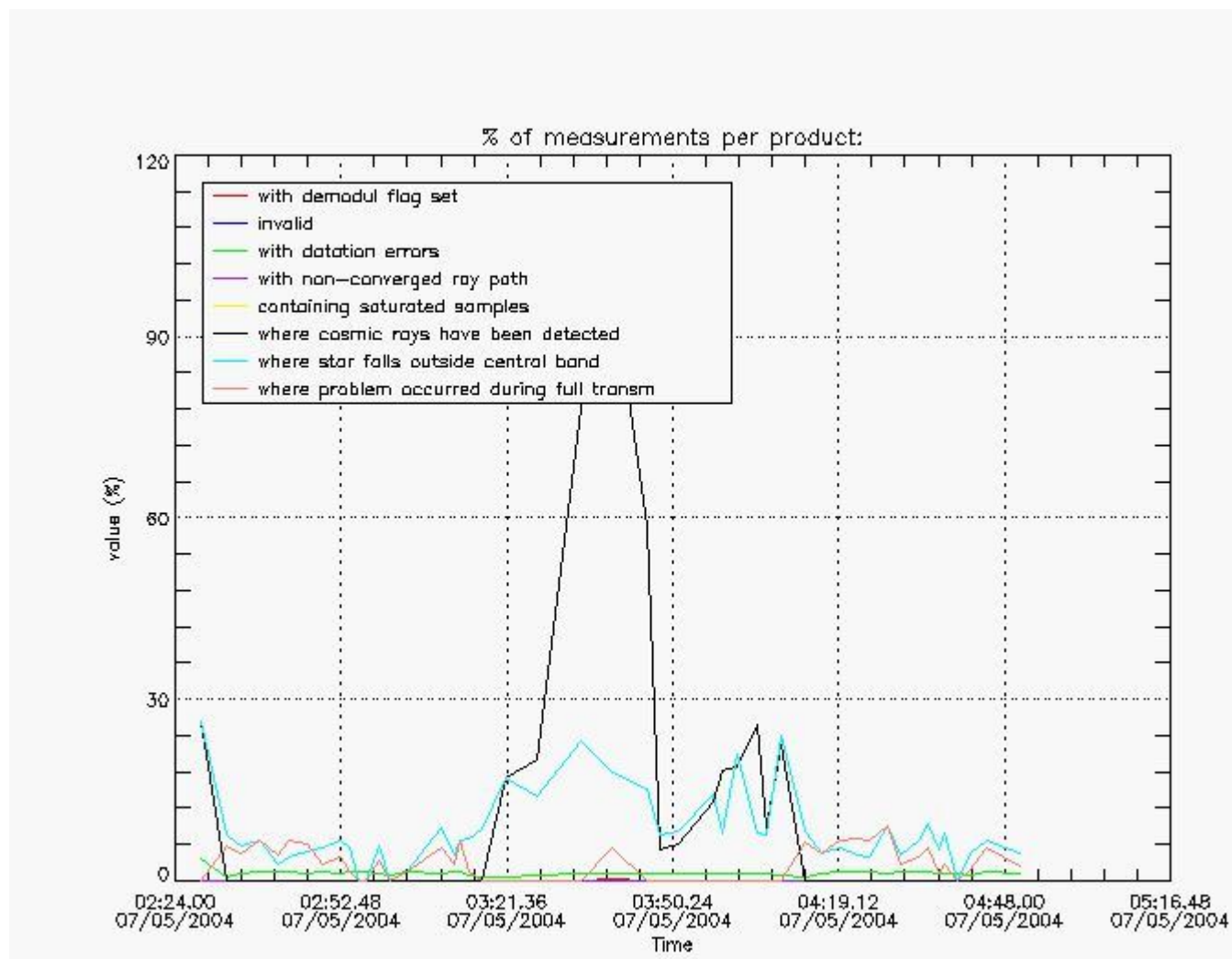
## 5. Demodulation flag and quality information monitoring

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.

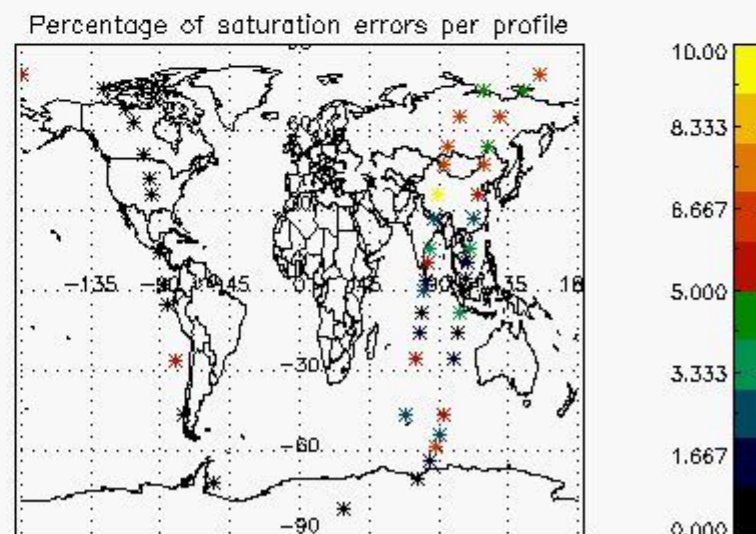
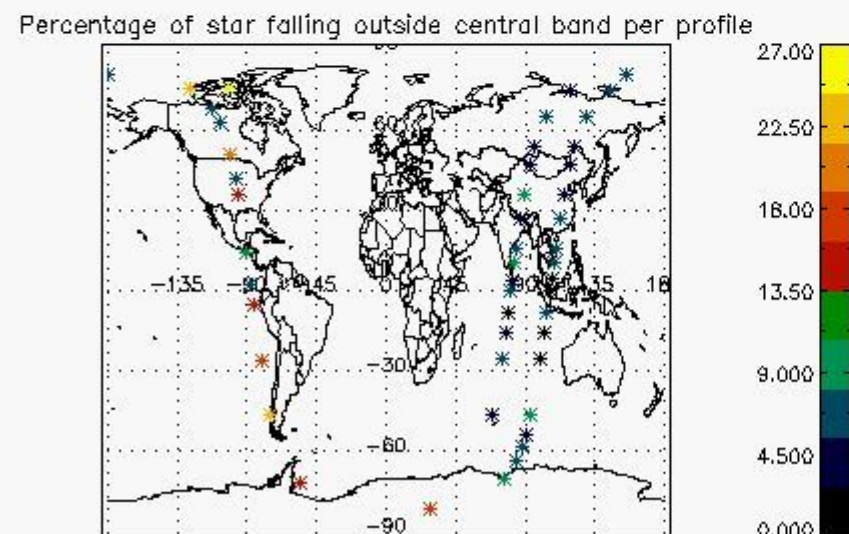
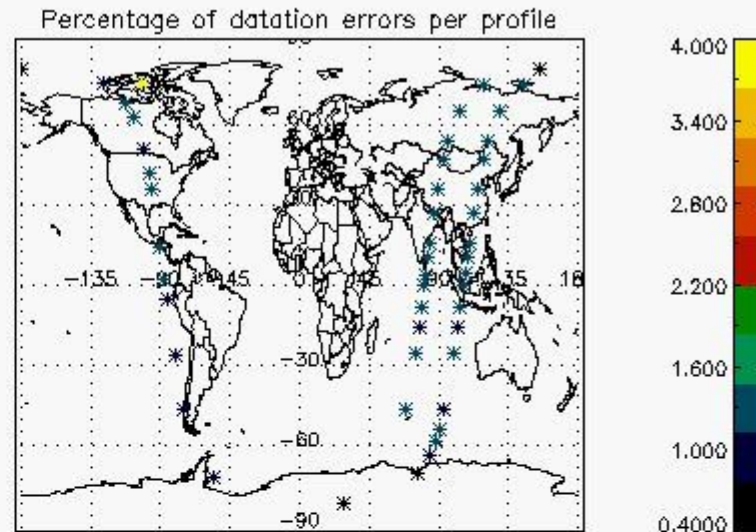
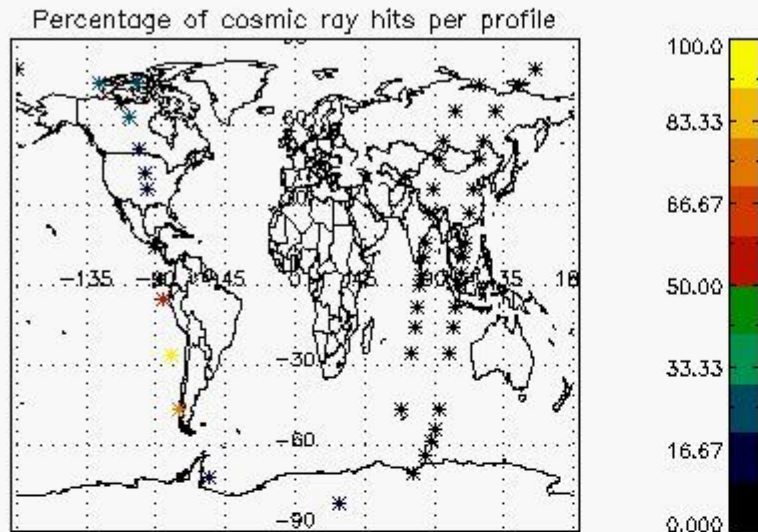
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	6.25000 %
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)

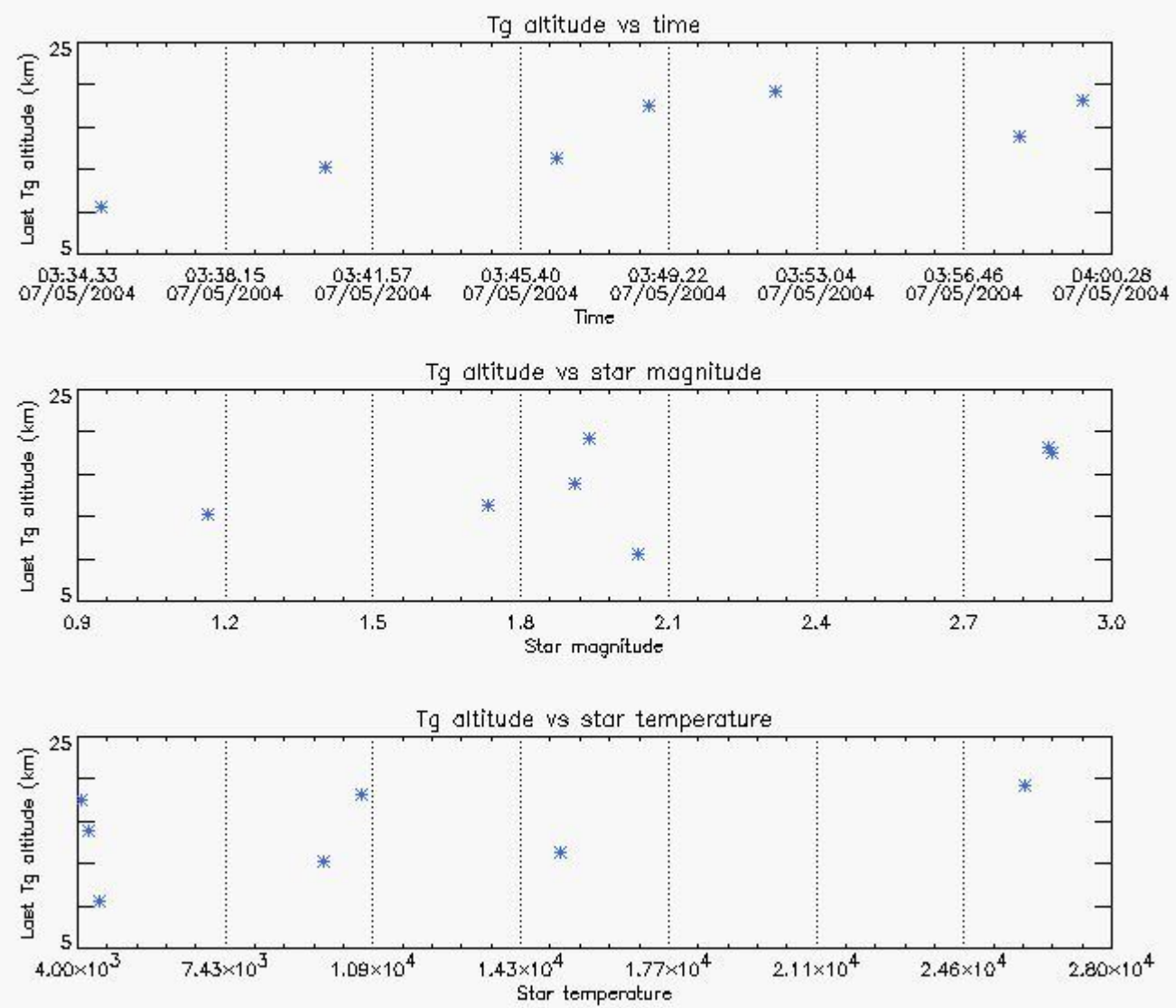
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.964	21.222	13.958
St. deviation:	4.0008	3.9449	3.2122
Maximum:	20.383	28.759	18.414
Minimum:	9.4517	7.9779	10.812
Number of data:	7.0000	37.000	4.0000

### 6.2 Plot for DARK limb products

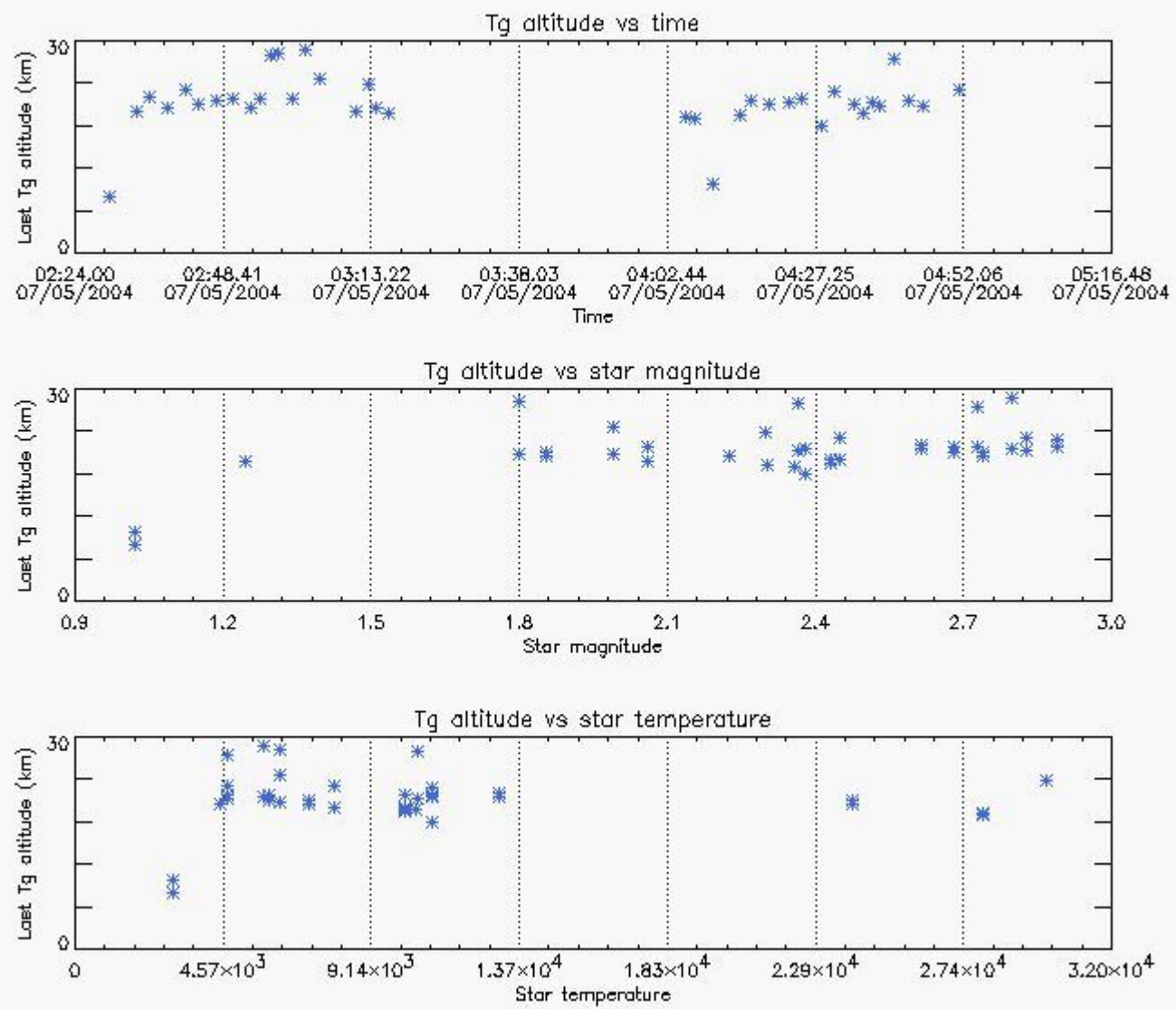


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

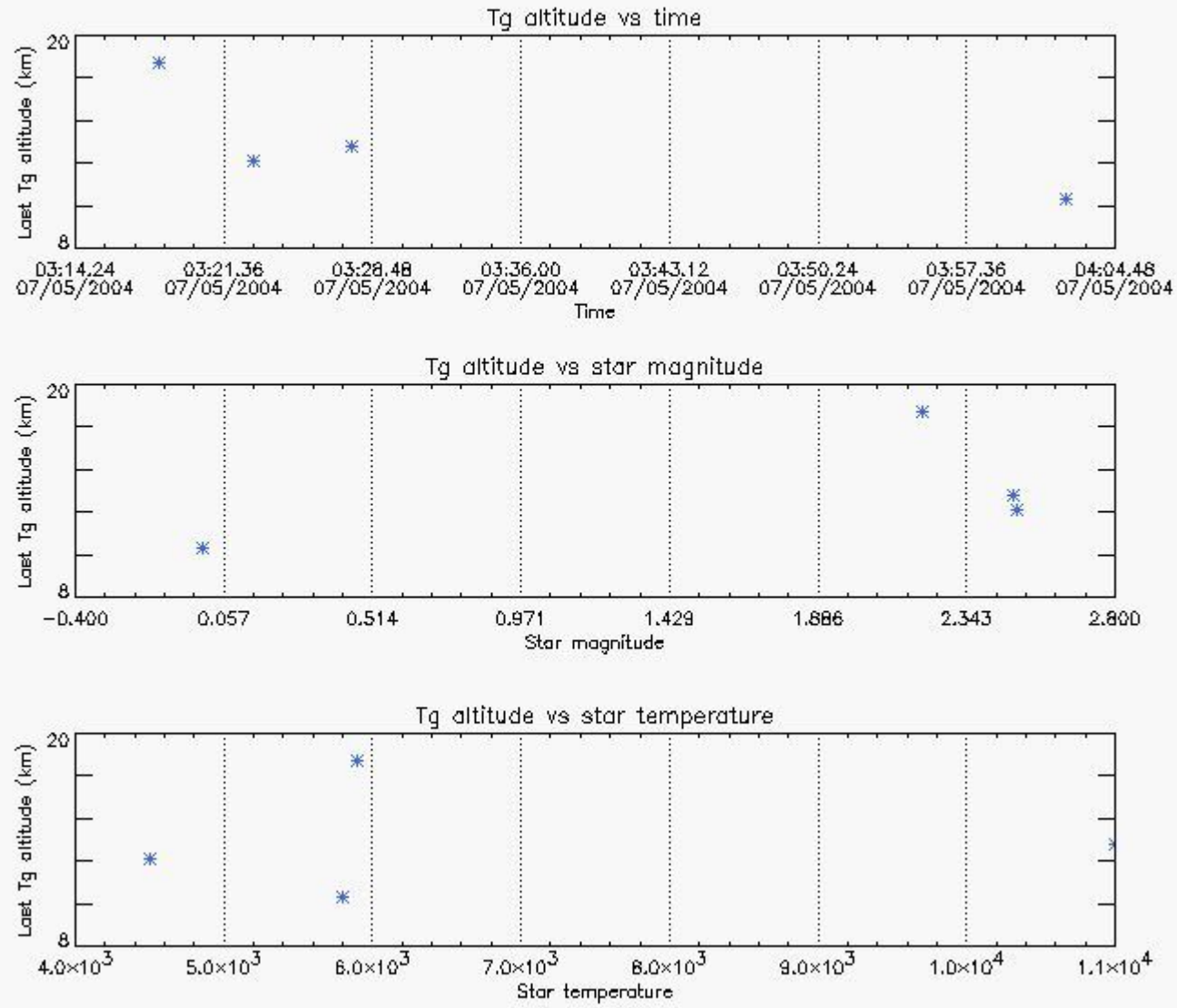
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



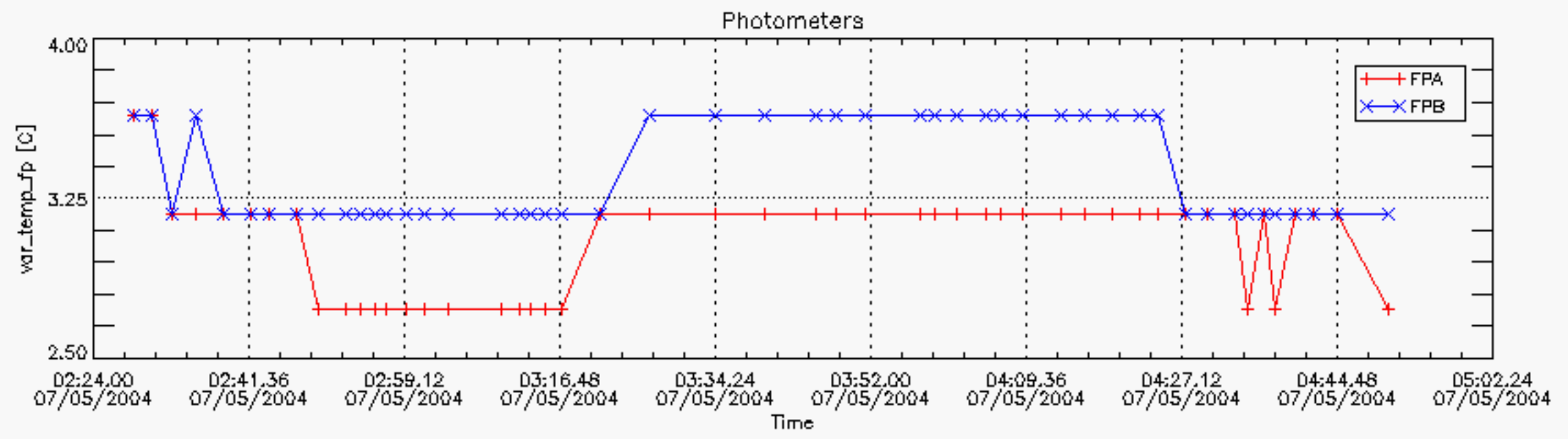
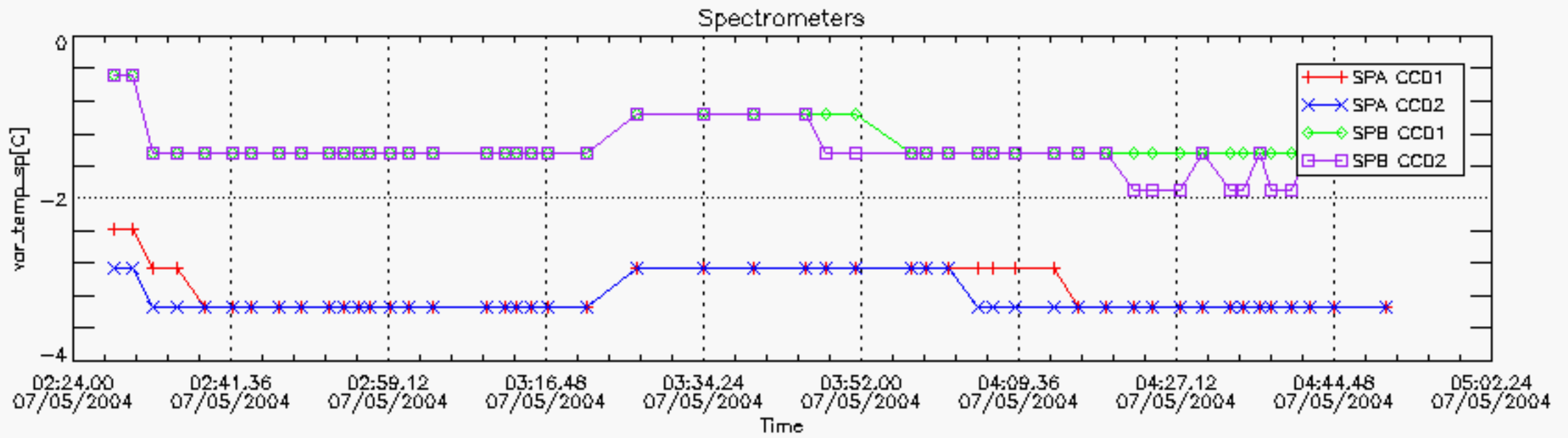
Tangent altitude at which the star is lost

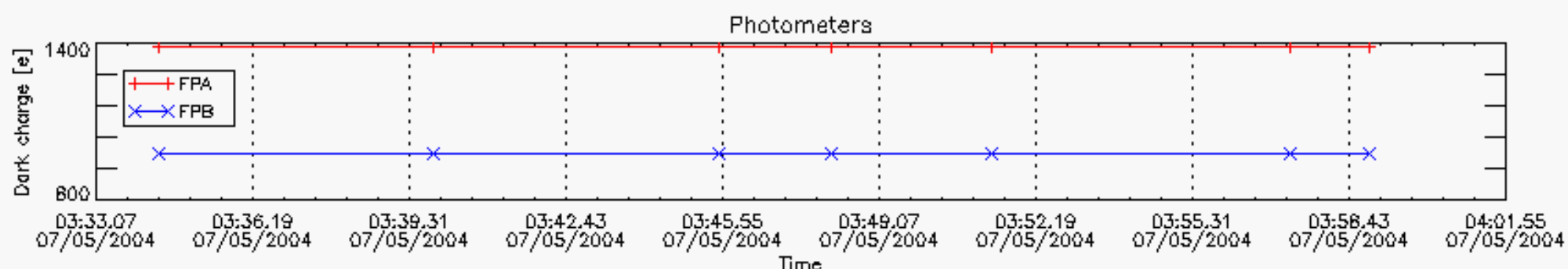
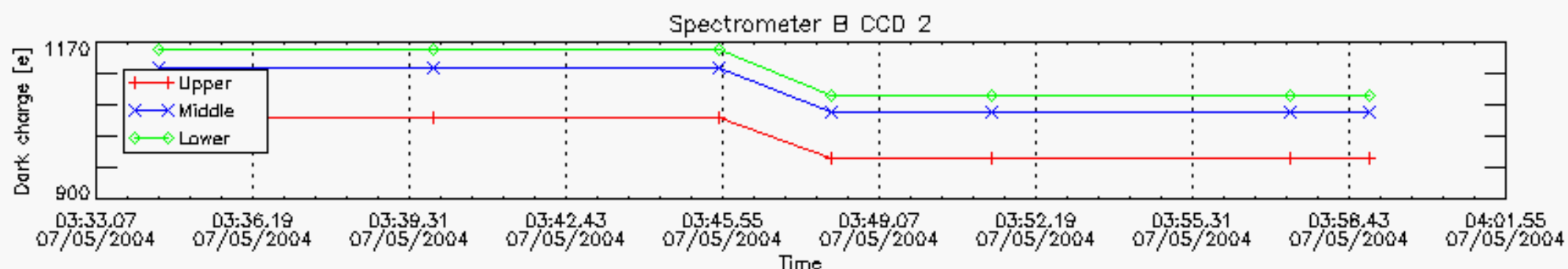
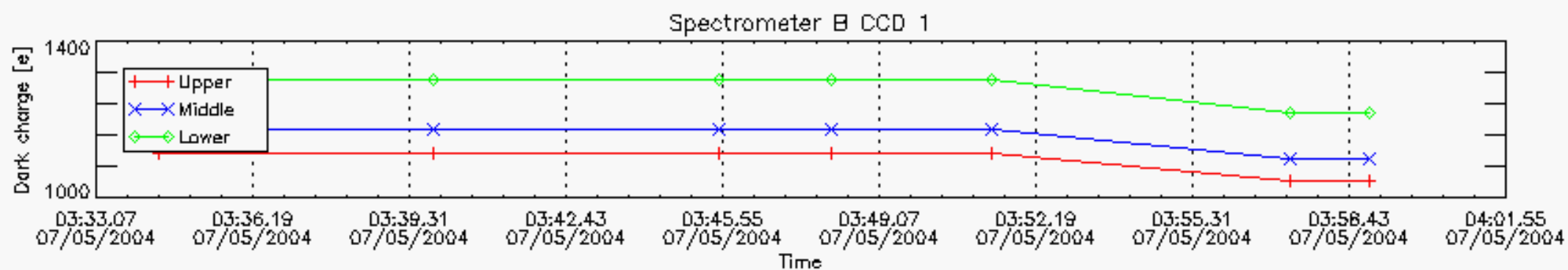
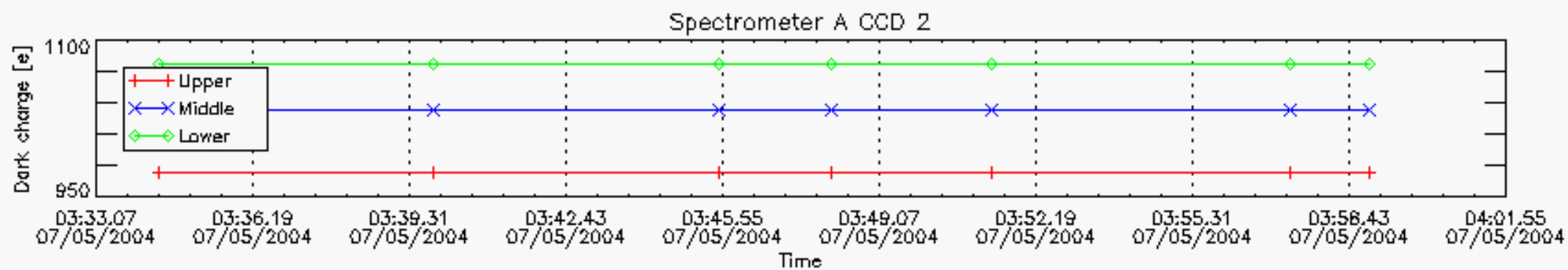
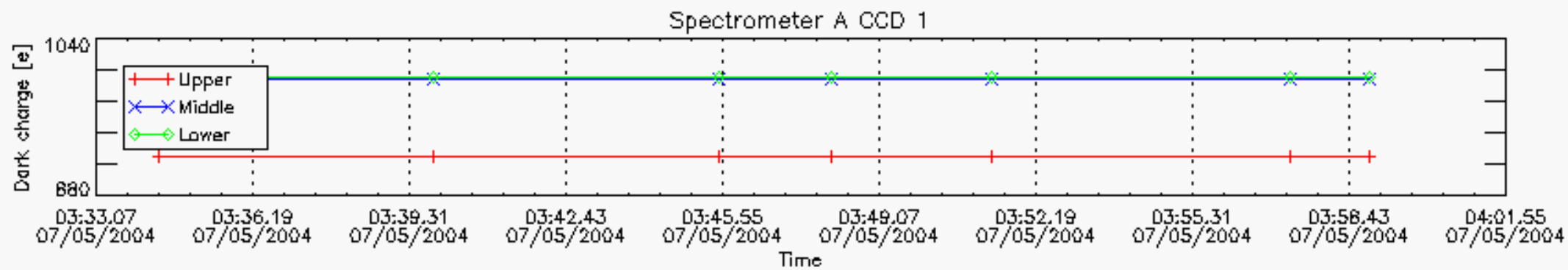


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1460.6	1446.3	1461.6	1447.2
St. deviation:	4.7542	6.3346	7.6722	8.8170
Maximum:	1498.0	1478.0	1510.0	1505.0
Minimum:	1431.0	1409.0	1429.0	1421.0
Number of data:	7500.0	7500.0	42050.	42050.

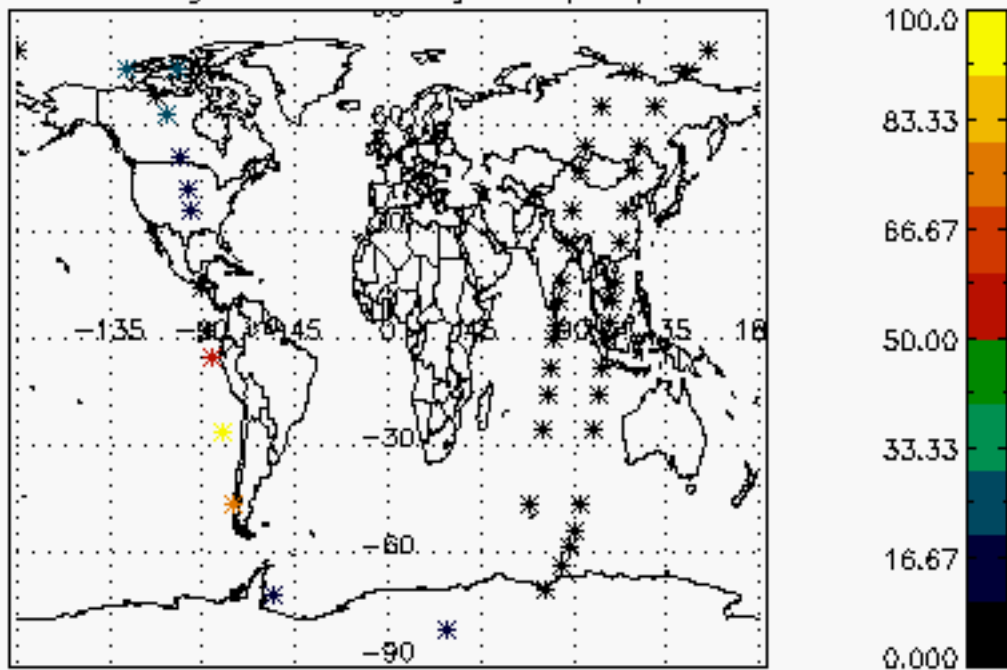




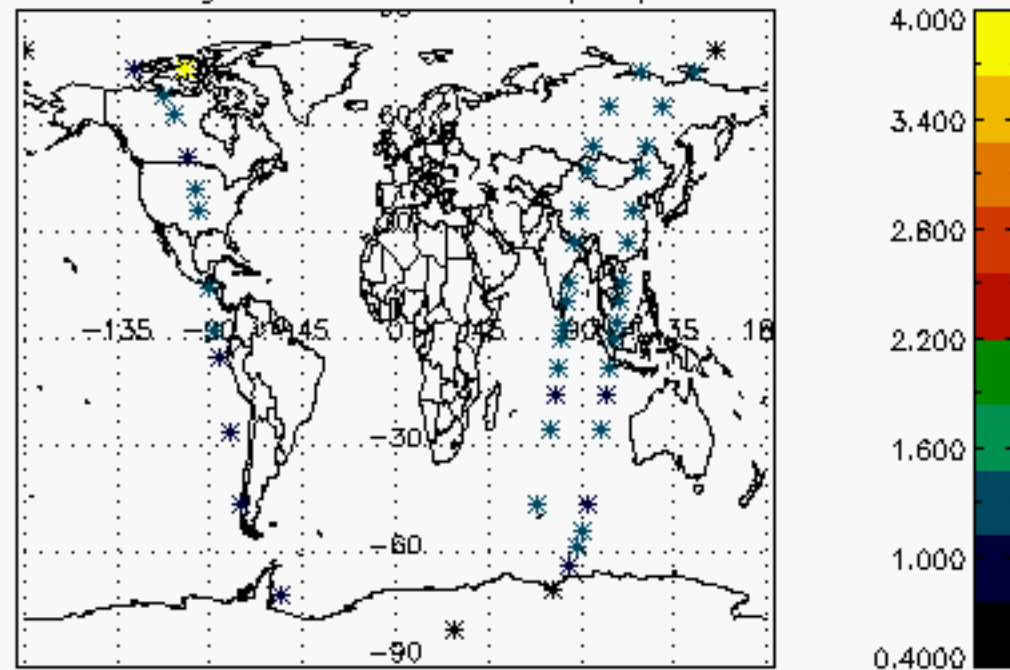




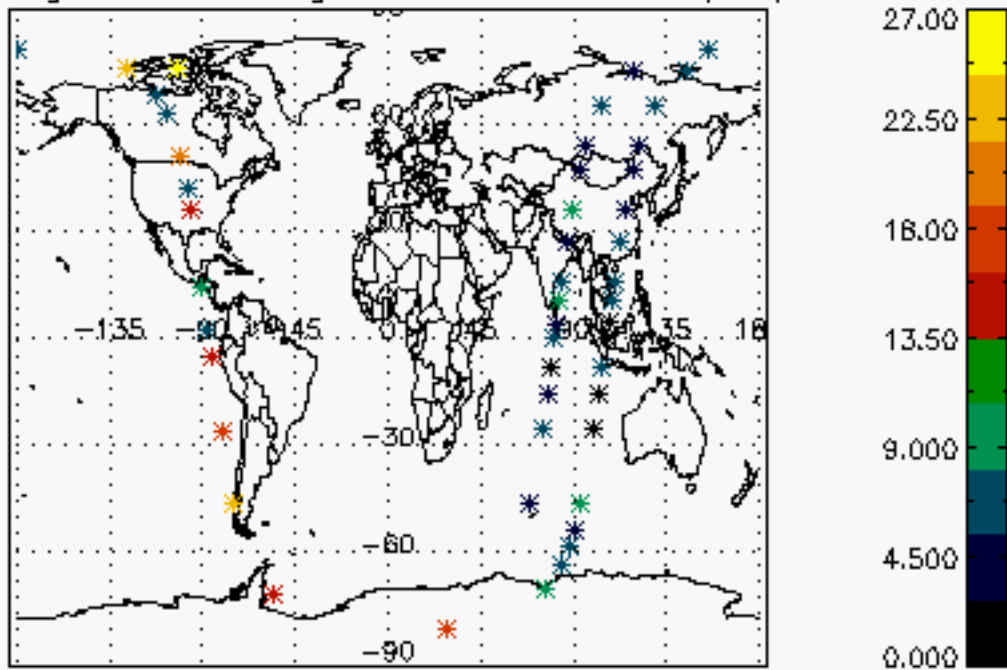
Percentage of cosmic ray hits per profile



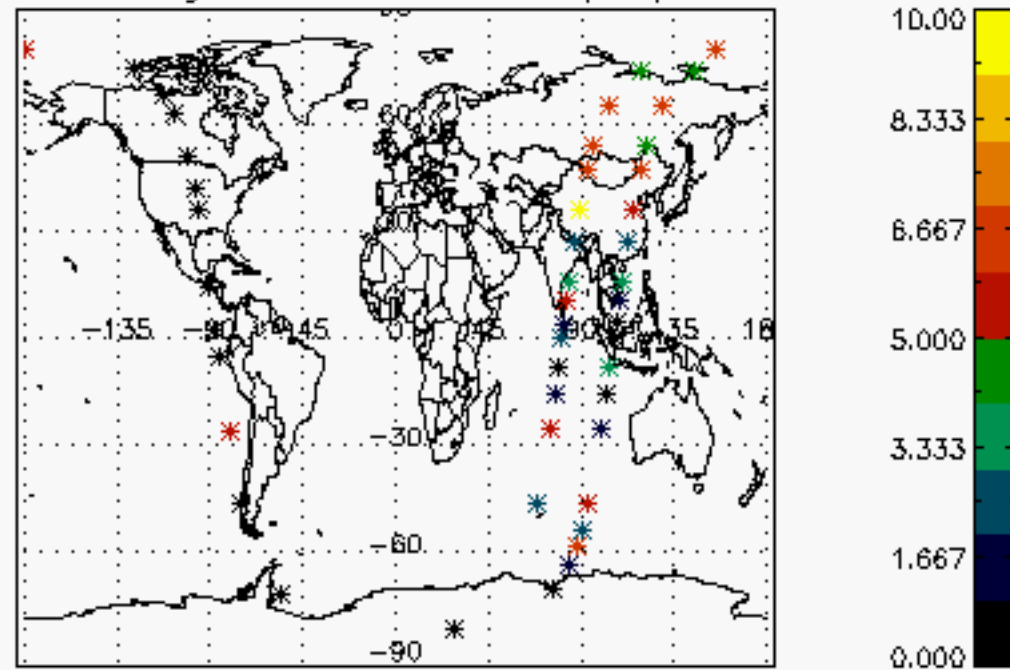
Percentage of datation errors per profile



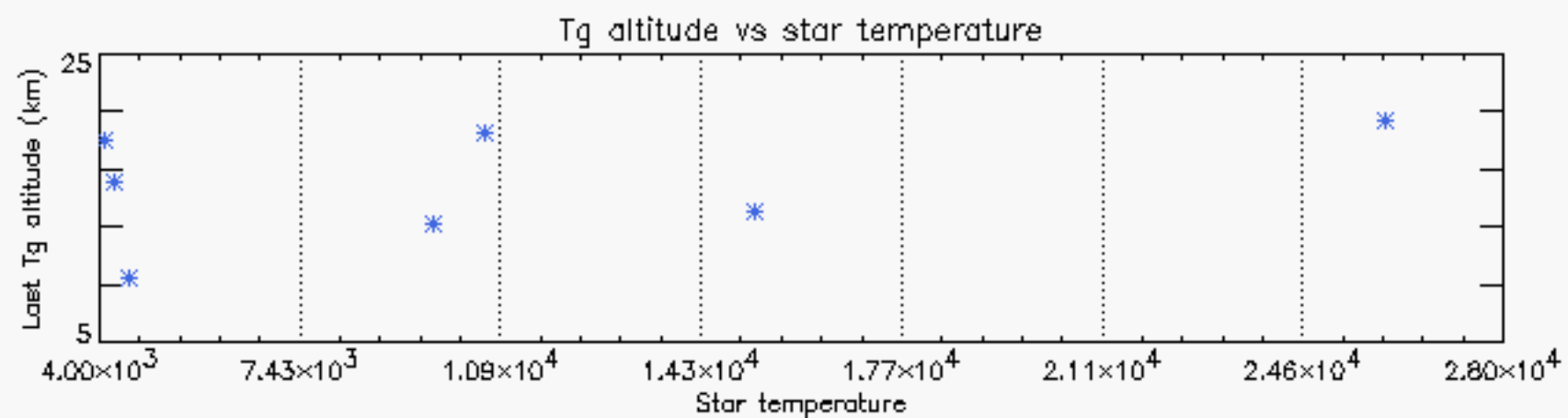
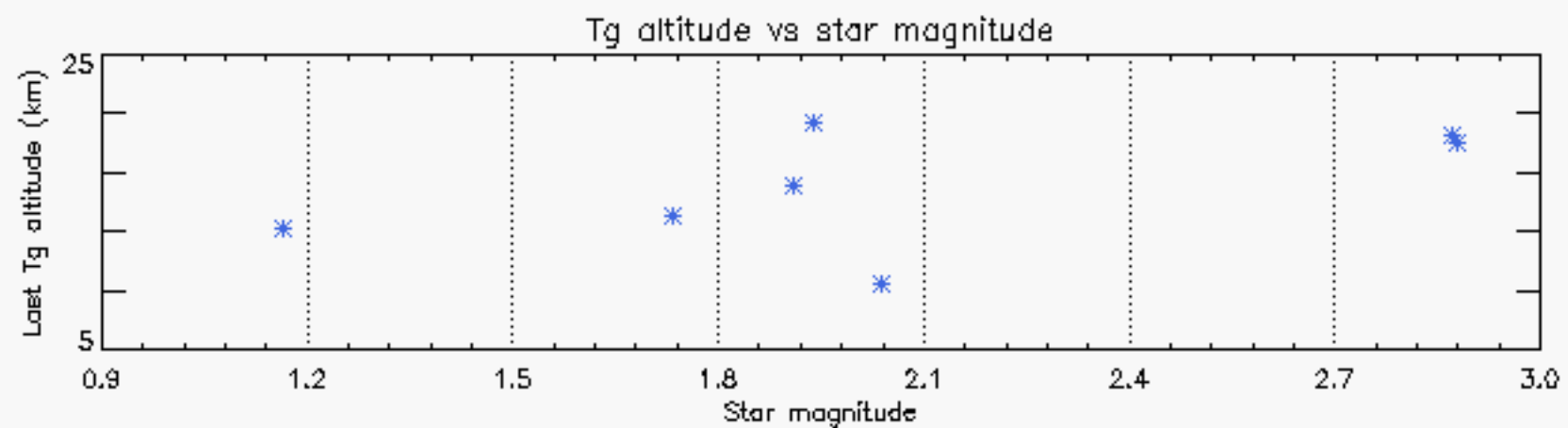
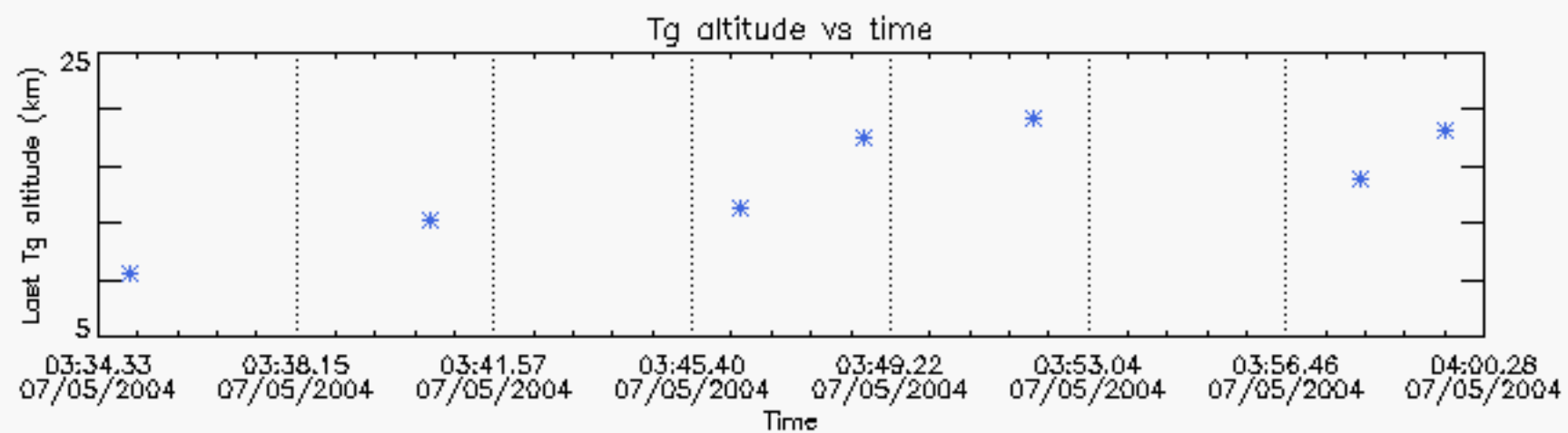
Percentage of star falling outside central band per profile



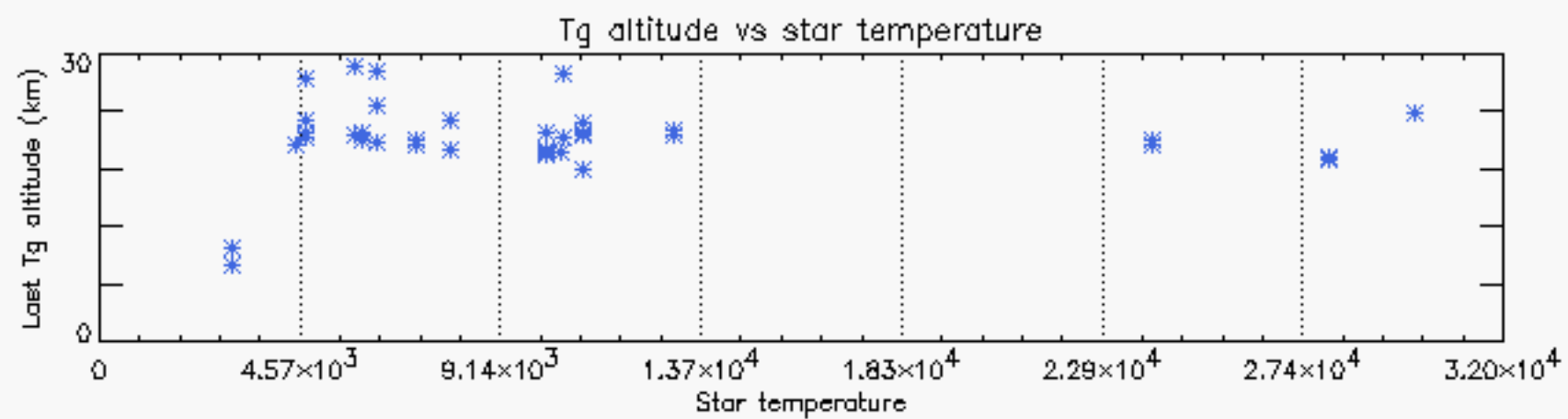
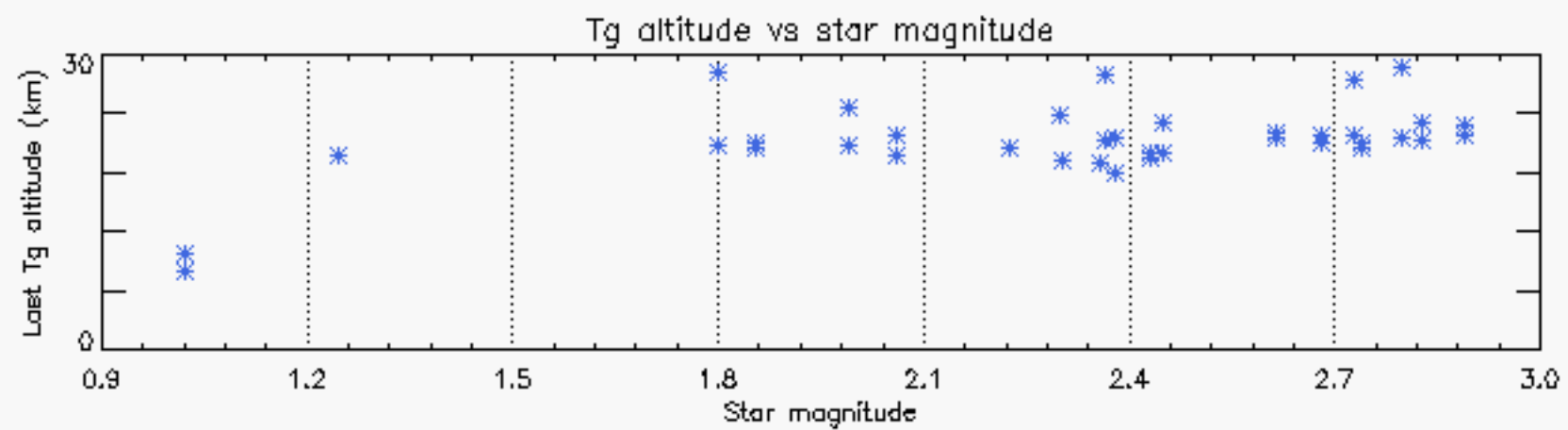
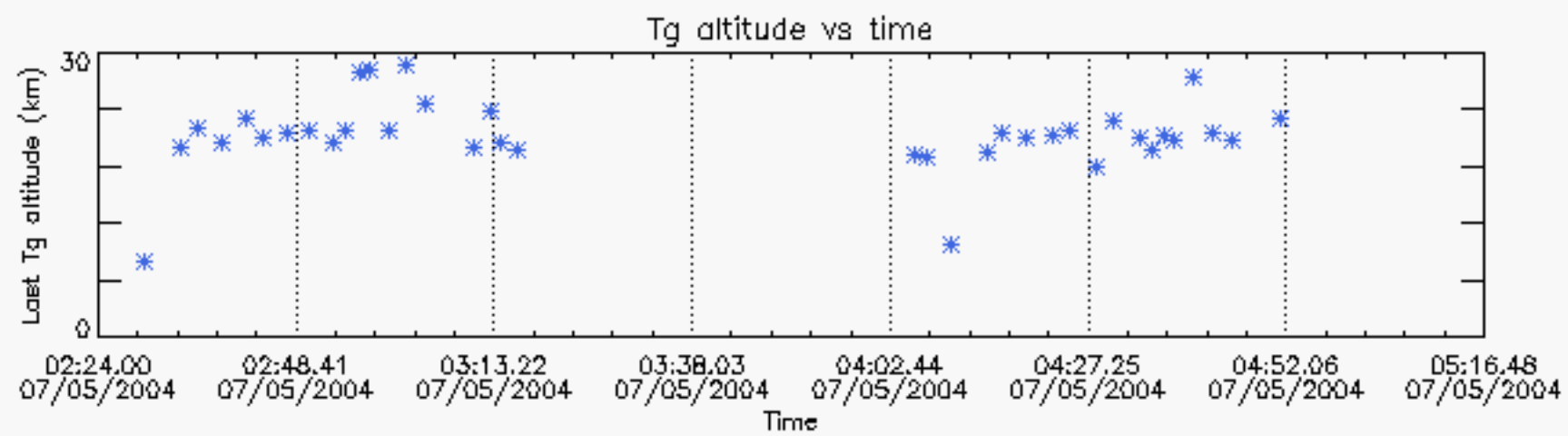
Percentage of saturation errors per profile



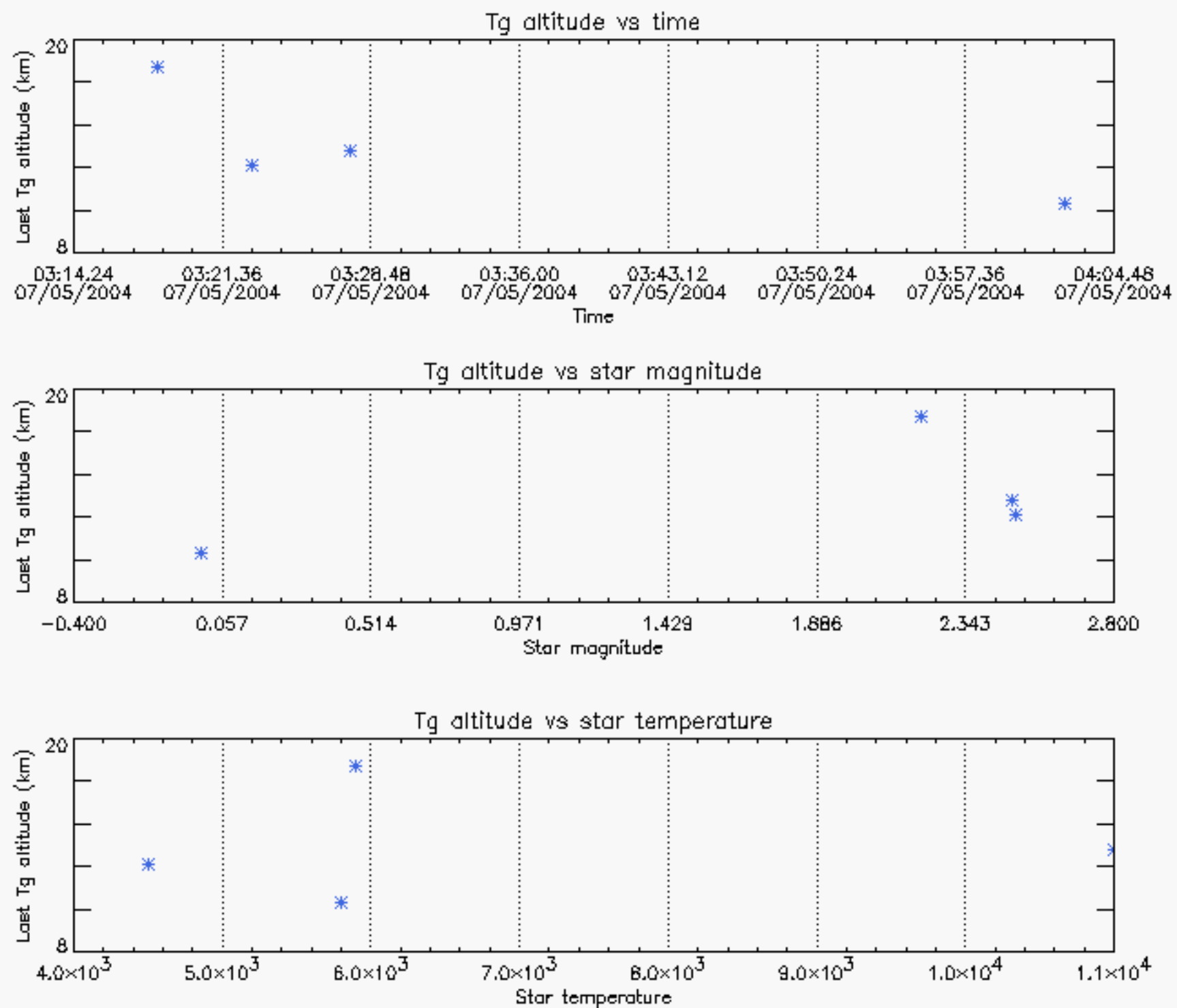
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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26; 220.8; 24-MAY-2004 04:57:16; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;11668
27; 410.6; 24-MAY-2004 05:00:25; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;11668
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33; 1212.8; 24-MAY-2004 05:13:48; Dark ; 53.5; 75; 26Eps Sco ; 2.29; 4250;occ; 107; 0;11668
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22;-699.6; 24-MAY-2004 14:45:31; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;11673
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27; 221.4; 24-MAY-2004 15:00:52; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;11674
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33; 1215.0; 24-MAY-2004 15:17:25; Dark ; 54.0; 75; 26Eps Sco ; 2.29; 4250;occ; 108; 0;11674
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6;-4015.6; 24-MAY-2004 15:30:51; Bright; 40.5; 102; 24Alp Ser ; 2.60; 4250;occ; 81; 0;11674
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8;-3668.3; 24-MAY-2004 15:36:38; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;11674
9;-3478.1; 24-MAY-2004 15:39:48; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;11674
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19;-1653.9; 24-MAY-2004 16:10:12; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;11674
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22;-1089.7; 24-MAY-2004 16:19:37; Dark ; 69.5; 90; 54Alp Peg ; 2.49; 11000;occ; 139; 0;11674
23;-699.2; 24-MAY-2004 16:26:07; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;11674
24;-424.0; 24-MAY-2004 16:30:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11674
25;-238.7; 24-MAY-2004 16:33:48; Dark ; 59.5; 18; 24Alp PsA ; 1.17; 9700;occ; 119; 0;11674
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27;-5.8; 24-MAY-2004 16:37:41; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;11674
28; 221.3; 24-MAY-2004 16:41:28; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;11675
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31; 808.8; 24-MAY-2004 16:51:15; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;11675
32; 898.0; 24-MAY-2004 16:52:44; Dark ; 50.5; 4; Alp1Cen ;-0.01; 5800;occ; 101; 0;11675
33; 986.1; 24-MAY-2004 16:54:12; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;11675
34; 1096.3; 24-MAY-2004 16:56:03; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;11675
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4;	-4456.0;	24-MAY-2004	17:04:06;	Bright	;	51.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	103;	0;	11675
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6;	-4199.1;	24-MAY-2004	17:08:23;	Bright	;	44.0;	120;	1Del	Oph	;	2.73;	3200;	occ;	88;	0;	11675
7;	-4016.1;	24-MAY-2004	17:11:26;	Bright	;	41.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	82;	0;	11675
8;	-3797.8;	24-MAY-2004	17:15:05;	Bright	;	37.0;	3;	16Alp	Boo	;	-0.05;	4250;	occ;	74;	0;	11675
9;	-3668.5;	24-MAY-2004	17:17:14;	Bright	;	37.5;	83;			;	2.38;	11000;	occ;	75;	0;	11675
10;	-3478.4;	24-MAY-2004	17:20:24;	Bright	;	37.5;	180;	27Gam	Boo	;	3.04;	8000;	occ;	75;	0;	11675
11;	-3285.7;	24-MAY-2004	17:23:37;	Bright	;	38.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	76;	0;	11675
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13;	-3103.3;	24-MAY-2004	17:26:39;	Bright	;	39.0;	87;	64Gam	UMa	;	2.43;	11000;	occ;	78;	0;	11675
14;	-3000.8;	24-MAY-2004	17:28:22;	Bright	;	41.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	82;	0;	11675
15;	-2867.3;	24-MAY-2004	17:30:35;	Bright	;	38.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	77;	0;	11675
16;	-2591.9;	24-MAY-2004	17:35:10;	Bright	;	39.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	78;	0;	11675
17;	-2352.5;	24-MAY-2004	17:39:10;	Bright	;	48.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	97;	0;	11675
18;	-2101.9;	24-MAY-2004	17:43:20;	Bright	;	37.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	74;	0;	11675
19;	-2030.6;	24-MAY-2004	17:44:32;	Bright	;	45.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	90;	0;	11675
20;	-1654.0;	24-MAY-2004	17:50:48;	Bright	;	40.5;	53;	43Bet	And	;	2.05;	3300;	occ;	81;	0;	11675
21;	-1500.3;	24-MAY-2004	17:53:22;	Dark	;	50.5;	58;	21Alp	And	;	2.07;	11000;	occ;	101;	0;	11675
22;	-1229.7;	24-MAY-2004	17:57:53;	Dark	;	47.0;	140;	88Gam	Peg	;	2.83;	26000;	occ;	94;	0;	11675
23;	-1088.8;	24-MAY-2004	18:00:14;	Dark	;	70.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	141;	0;	11675
24;	-698.7;	24-MAY-2004	18:06:44;	Dark	;	49.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	98;	0;	11675
25;	-423.7;	24-MAY-2004	18:11:19;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	11675
26;	-127.8;	24-MAY-2004	18:16:15;	Dark	;	43.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	86;	0;	11675
27;	-5.0;	24-MAY-2004	18:18:17;	Dark	;	48.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	96;	0;	11675
28;	221.6;	24-MAY-2004	18:22:04;	Dark	;	39.0;	135;	Bet	Hyi	;	2.82;	5800;	occ;	78;	0;	11676
29;	417.9;	24-MAY-2004	18:25:20;	Dark	;	43.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	87;	0;	11676
30;	682.5;	24-MAY-2004	18:29:45;	Dark	;	39.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	78;	0;	11676
31;	809.5;	24-MAY-2004	18:31:52;	Dark	;	38.0;	134;	Bet	TrA	;	2.81;	6600;	occ;	76;	0;	11676
32;	898.3;	24-MAY-2004	18:33:21;	Dark	;	50.0;	4;	Alp1Cen		;	-0.01;	5800;	occ;	100;	0;	11676
33;	986.8;	24-MAY-2004	18:34:49;	Dark	;	51.0;	40;	The	Sco	;	1.86;	7100;	occ;	102;	0;	11676

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2;	-4938.9;	24-MAY-2004	18:36:39;	Dark	;	51.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	103;	0;	11676
3;	-4819.9;	24-MAY-2004	18:38:38;	Dark	;	56.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	112;	0;	11676
4;	-4650.6;	24-MAY-2004	18:41:28;	Dark	;	59.0;	16;	21Alp	Sco	;	1.02;	3000;	occ;	118;	0;	11676
5;	-4557.5;	24-MAY-2004	18:43:01;	Bright	;	42.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	85;	0;	11676
6;	-4456.2;	24-MAY-2004	18:44:42;	Bright	;	53.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	106;	0;	11676
7;	-4301.0;	24-MAY-2004	18:47:17;	Bright	;	39.0;	104;	27Bet	Lib	;	2.61;	13100;	occ;	78;	0;	11676
8;	-4199.1;	24-MAY-2004	18:48:59;	Bright	;	44.0;	120;	1Del	Oph	;	2.73;	3200;	occ;	88;	0;	11676
9;	-4015.4;	24-MAY-2004	18:52:03;	Bright	;	40.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	80;	0;	11676
10;	-3797.0;	24-MAY-2004	18:55:41;	Bright	;	36.5;	3;	16Alp	Boo	;	-0.05;	4250;	occ;	73;	0;	11676
11;	-3668.2;	24-MAY-2004	18:57:50;	Bright	;	40.0;	83;			;	2.38;	11000;	occ;	80;	0;	11676
12;	-3477.5;	24-MAY-2004	19:01:01;	Bright	;	35.0;	180;	27Gam	Boo	;	3.04;	8000;	occ;	70;	0;	11676
13;	-3284.9;	24-MAY-2004	19:04:13;	Bright	;	36.5;	39;	85Eta	UMa	;	1.85;	24000;	occ;	73;	0;	11676
14;	-3181.8;	24-MAY-2004	19:05:57;	Bright	;	37.0;	55;	79Zet	UMa	;	2.06;	10200;	occ;	74;	0;	11676
15;	-3102.9;	24-MAY-2004	19:07:15;	Bright	;	39.0;	87;	64Gam	UMa	;	2.43;	11000;	occ;	78;	0;	11676
16;	-3000.2;	24-MAY-2004	19:08:58;	Bright	;	41.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	83;	0;	11676
17;	-2866.6;	24-MAY-2004	19:11:12;	Bright	;	38.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	76;	0;	11676
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