

# GOMOS Daily Report 08-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	09MAY2004 03:42:05
Data source version	GOMOS/4.02
Start time of products	08-MAY-2004 (08MAY2004 00:00:00)
Stop time of products	09-MAY-2004 (09MAY2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	2

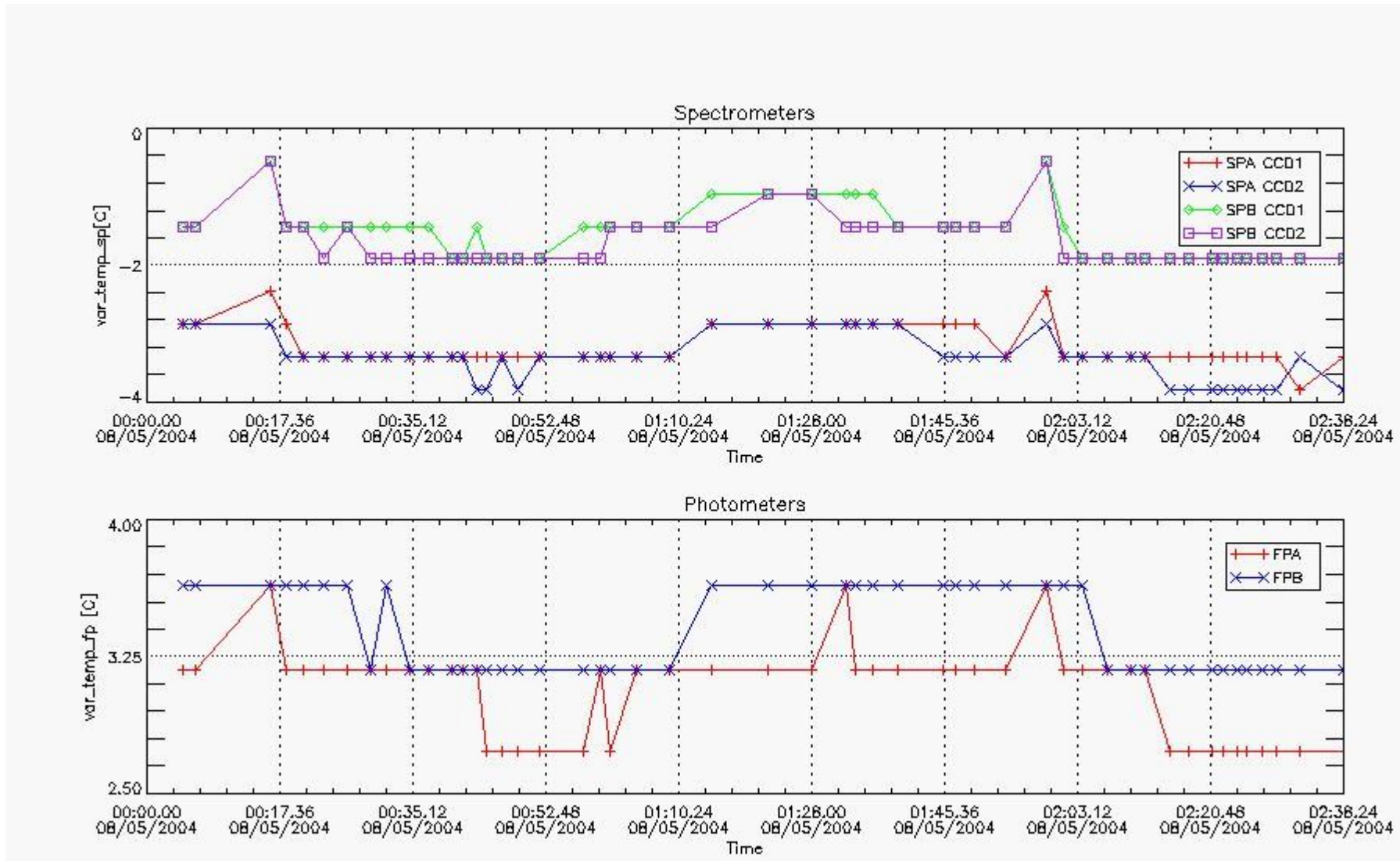
## 2. Summary of products arrived in PCF

### 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_1PNPDE20040508_000446_000000452026_00360_11436_0029.N1	08-MAY-2004 00:04:46	Dark	45.000	43	Alp TrA	1.9100	4250.0	90	11436	No
GOM_TRA_1PNPDE20040508_000621_000000402026_00360_11436_0030.N1	08-MAY-2004 00:06:21	Dark	40.000	145	Gam TrA	2.8720	10600.	80	11436	No
GOM_TRA_1PNPDE20040508_001625_000000662026_00360_11436_0000.N1	08-MAY-2004 00:16:25	Bright	65.500	16	21Alp Sco	1.0200	3000.0	131	11436	Yes
GOM_TRA_1PNPDE20040508_001822_000000572026_00360_11436_0001.N1	08-MAY-2004 00:18:22	Bright	57.000	80	7Del Sco	2.3160	30000.	114	11436	No
GOM_TRA_1PNPDE20040508_002039_000000782026_00360_11436_0002.N1	08-MAY-2004 00:20:39	Bright	78.000	86	35Eta Oph	2.4300	10200.	156	11436	No
GOM_TRA_1PNPDE20040508_002319_000000452026_00360_11436_0003.N1	08-MAY-2004 00:23:19	Bright	45.000	104	27Bet Lib	2.6140	13100.	90	11436	No
GOM_TRA_1PNPDE20040508_002629_000000392026_00360_11436_0004.N1	08-MAY-2004 00:26:29	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	11436	No
GOM_TRA_1PNPDE20040508_002939_000000382026_00360_11436_0005.N1	08-MAY-2004 00:29:39	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	11436	No
GOM_TRA_1PNPDE20040508_003135_000000382026_00360_11436_0006.N1	08-MAY-2004 00:31:35	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	11436	No
GOM_TRA_1PNPDE20040508_003444_000000442026_00360_11436_0007.N1	08-MAY-2004 00:34:44	Bright	44.000	83		2.3780	11000.	88	11436	No
GOM_TRA_1PNPDE20040508_003715_000000392026_00360_11436_0008.N1	08-MAY-2004 00:37:15	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	11436	No
GOM_TRA_1PNPDE20040508_004025_000000392026_00360_11436_0009.N1	08-MAY-2004 00:40:25	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	11436	No
GOM_TRA_1PNPDE20040508_004154_000000362026_00360_11436_0010.N1	08-MAY-2004 00:41:54	Bright	36.000	55	79Zet UMa	2.0600	10200.	72	11436	No
GOM_TRA_1PNPDE20040508_004344_000000382026_00360_11436_0011.N1	08-MAY-2004 00:43:44	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	11436	No
GOM_TRA_1PNPDE20040508_004457_000000402026_00360_11436_0012.N1	08-MAY-2004 00:44:57	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	11436	No
GOM_TRA_1PNPDE20040508_004702_000000452026_00360_11436_0013.N1	08-MAY-2004 00:47:02	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	11436	No
GOM_TRA_1PNPDE20040508_004900_000000532026_00360_11436_0014.N1	08-MAY-2004 00:49:00	Bright	52.500	130	23Bet Dra	2.7990	5800.0	105	11436	No
GOM_TRA_1PNPDE20040508_005158_000000372026_00360_11436_0015.N1	08-MAY-2004 00:51:58	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	11436	No
GOM_TRA_1PNPDE20040508_005747_000000452026_00360_11436_0016.N1	08-MAY-2004 00:57:47	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	11436	No
GOM_TRA_1PNPDE20040508_010006_000000382026_00360_11436_0017.N1	08-MAY-2004 01:00:06	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	11436	No
GOM_TRA_1PNPDE20040508_010120_000000382026_00360_11436_0018.N1	08-MAY-2004 01:01:20	Bright	38.000	68	18Alp Cas	2.2250	4500.0	76	11436	No
GOM_TRA_1PNPDE20040508_010445_000000912026_00360_11436_0019.N1	08-MAY-2004 01:04:45	Twilight	91.000	66	37Gam Cyg	2.2080	5900.0	182	11436	No
GOM_TRA_1PNPDE20040508_010914_000001032026_00360_11436_0020.N1	08-MAY-2004 01:09:14	Twilight	103.00	92	53Eps Cyg	2.5000	4500.0	206	11436	No
GOM_TRA_1PNPDE20040508_011445_000000532026_00360_11436_0021.N1	08-MAY-2004 01:14:45	Twilight	52.500	90	54Alp Peg	2.4870	11000.	105	11436	No
GOM_TRA_1PNPDE20040508_012210_000000452026_00360_11436_0022.N1	08-MAY-2004 01:22:10	Dark	45.000	52	16Bet Cet	2.0370	4500.0	90	11436	No
GOM_TRA_1PNPDE20040508_012754_000000482026_00360_11436_0023.N1	08-MAY-2004 01:27:54	Dark	47.500	18	24Alp PsA	1.1660	9700.0	95	11436	No
GOM_TRA_1PNPDE20040508_013227_000000462026_00360_11436_0024.N1	08-MAY-2004 01:32:27	Dark	45.500	63	Bet Gru	2.1500	2800.0	91	11436	No
GOM_TRA_1PNPDE20040508_013346_000000462026_00360_11436_0025.N1	08-MAY-2004 01:33:46	Dark	45.500	31	Alp Gru	1.7340	15200.	91	11436	No
GOM_TRA_1PNPDE20040508_013559_000000442026_00361_11437_0026.N1	08-MAY-2004 01:35:59	Dark	44.000	148	Alp Tuc	2.8780	4100.0	88	11437	No
GOM_TRA_1PNPDE20040508_013920_000000452026_00361_11437_0027.N1	08-MAY-2004 01:39:20	Dark	45.000	45	Alp Pav	1.9400	26000.	90	11437	No
GOM_TRA_1PNPDE20040508_014522_000000442026_00361_11437_0028.N1	08-MAY-2004 01:45:22	Dark	44.000	43	Alp TrA	1.9100	4250.0	88	11437	No
GOM_TRA_1PNPDE20040508_014658_000000402026_00361_11437_0029.N1	08-MAY-2004 01:46:58	Twilight	40.000	145	Gam TrA	2.8720	10600.	80	11437	No
GOM_TRA_1PNPDE20040508_014927_000000462026_00361_11437_0030.N1	08-MAY-2004 01:49:27	Twilight	45.500	4	Alp1Cen	-0.010000	5800.0	91	11437	No
GOM_TRA_1PNPDE20040508_015337_000000582026_00361_11437_0031.N1	08-MAY-2004 01:53:37	Bright	58.000	75	26Eps Sco	2.2910	4250.0	116	11437	No
GOM_TRA_1PNPDE20040508_015857_000000592026_00361_11437_0000.N1	08-MAY-2004 01:58:57	Bright	59.000	80	7Del Sco	2.3160	30000.	118	11437	Yes
GOM_TRA_1PNPDE20040508_020115_000000772026_00361_11437_0001.N1	08-MAY-2004 02:01:15	Bright	77.000	86	35Eta Oph	2.4300	10200.	154	11437	No
GOM_TRA_1PNPDE20040508_020355_000000442026_00361_11437_0002.N1	08-MAY-2004 02:03:55	Bright	44.000	104	27Bet Lib	2.6140	13100.	88	11437	No
GOM_TRA_1PNPDE20040508_020706_000000382026_00361_11437_0003.N1	08-MAY-2004 02:07:06	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	11437	No
GOM_TRA_1PNPDE20040508_021016_000000372026_00361_11437_0004.N1	08-MAY-2004 02:10:16	Bright	36.500	138	47Eps Vir	2.8280	4700.0	73	11437	No
GOM_TRA_1PNPDE20040508_021211_000000392026_00361_11437_0005.N1	08-MAY-2004 02:12:11	Bright	38.500	111	8Eta Boo	2.6800	6000.0	77	11437	No
GOM_TRA_1PNPDE20040508_021519_000000422026_00361_11437_0006.N1	08-MAY-2004 02:15:19	Bright	42.000	83		2.3780	11000.	84	11437	No
GOM_TRA_1PNPDE20040508_021751_000000402026_00361_11437_0007.N1	08-MAY-2004 02:17:51	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	11437	No
GOM_TRA_1PNPDE20040508_022101_000000402026_00361_11437_0008.N1	08-MAY-2004 02:21:01	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	11437	No
GOM_TRA_1PNPDE20040508_022227_000000402026_00361_11437_0009.N1	08-MAY-2004 02:22:27	Bright	40.000	55	79Zet UMa	2.0600	10200.	80	11437	No
GOM_TRA_1PNPDE20040508_022420_000000372026_00361_11437_0010.N1	08-MAY-2004 02:24:20	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	11437	No
GOM_TRA_1PNPDE20040508_022533_000000392026_00361_11437_0011.N1	08-MAY-2004 02:25:33	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	11437	No
GOM_TRA_1PNPDE20040508_022737_000000422026_00361_11437_0012.N1	08-MAY-2004 02:27:37	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	11437	No
GOM_TRA_1PNPDE20040508_022935_000000562026_00361_11437_0013.N1	08-MAY-2004 02:29:35	Bright	55.500	130	23Bet Dra	2.7990	5800.0	111	11437	No
GOM_TRA_1PNPDE20040508_023234_000000382026_00361_11437_0014.N1	08-MAY-2004 02:32:34	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	11437	No

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



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

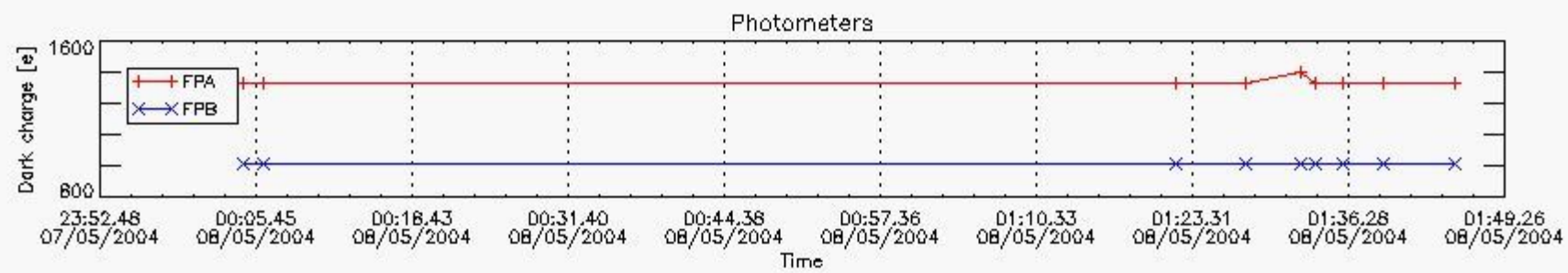
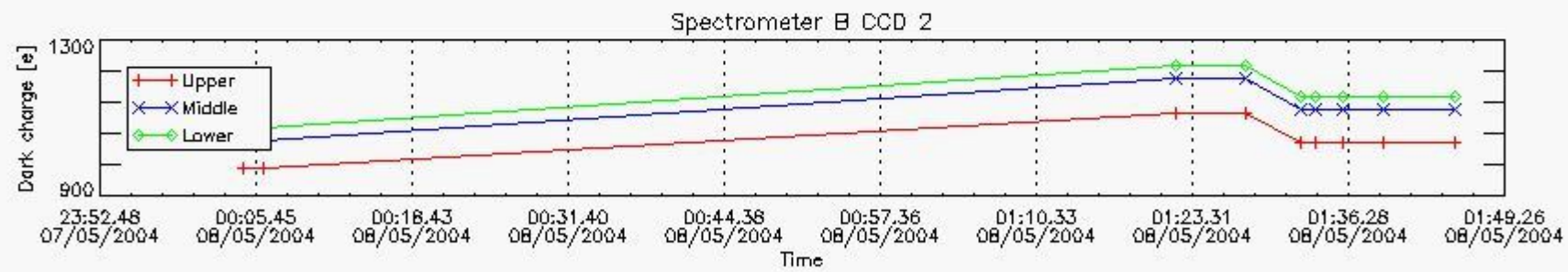
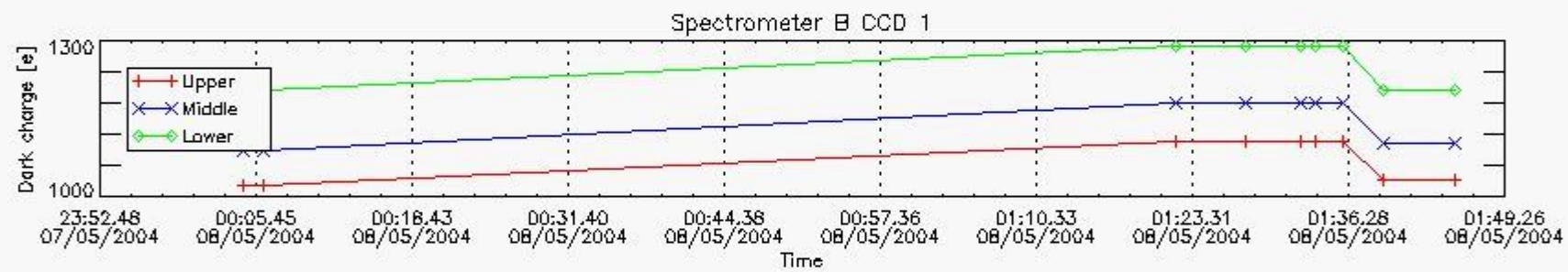
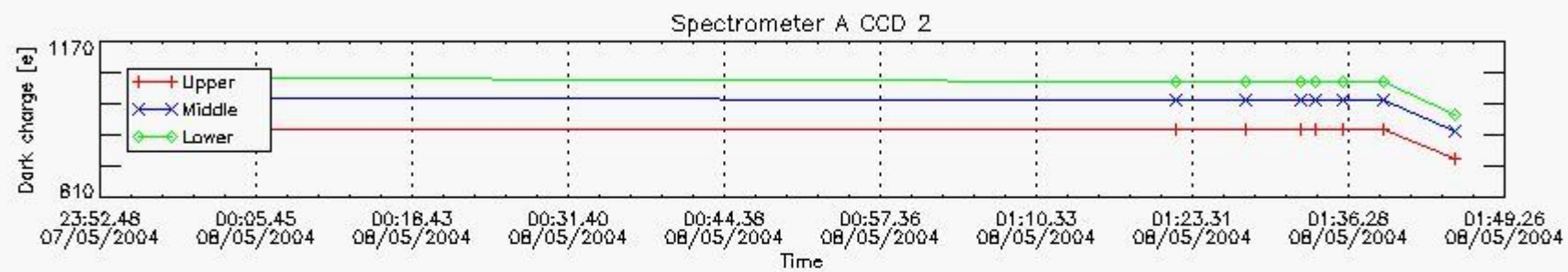
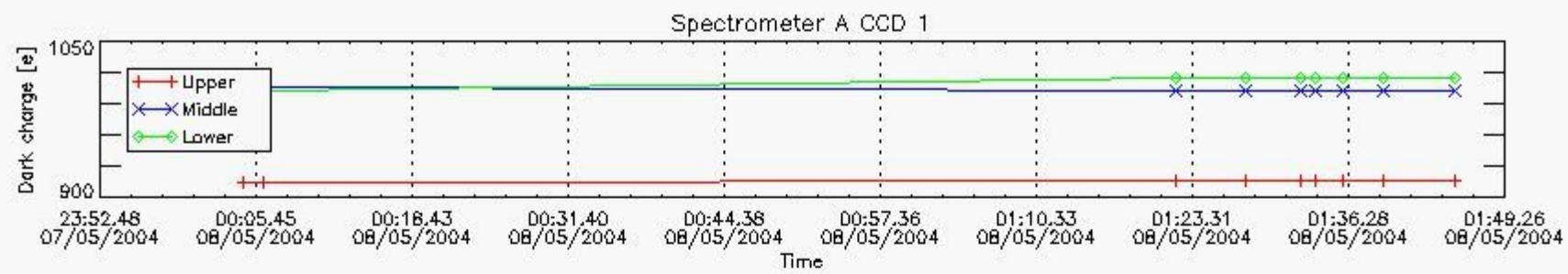
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





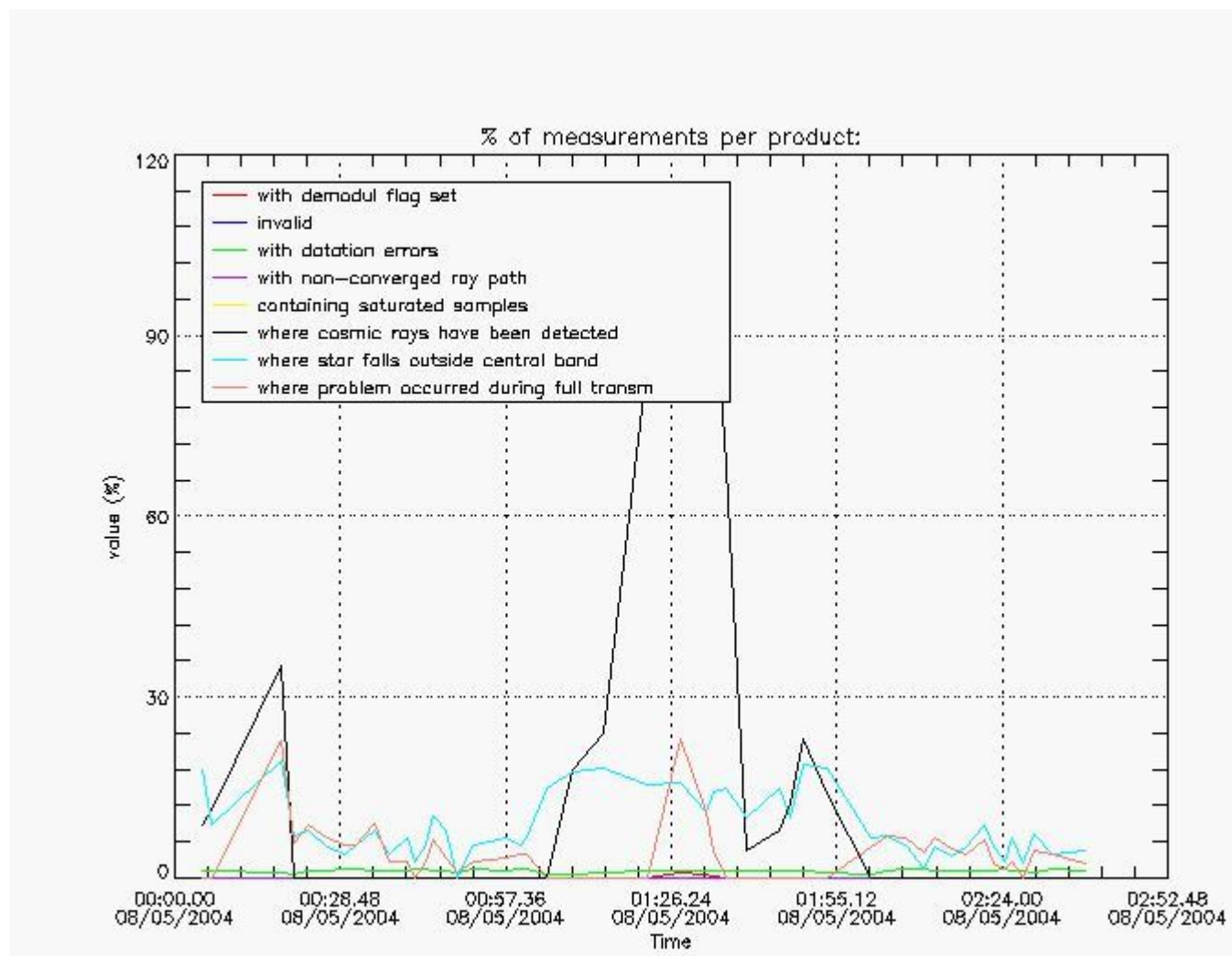
## 5. Demodulation flag and quality information monitoring

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.

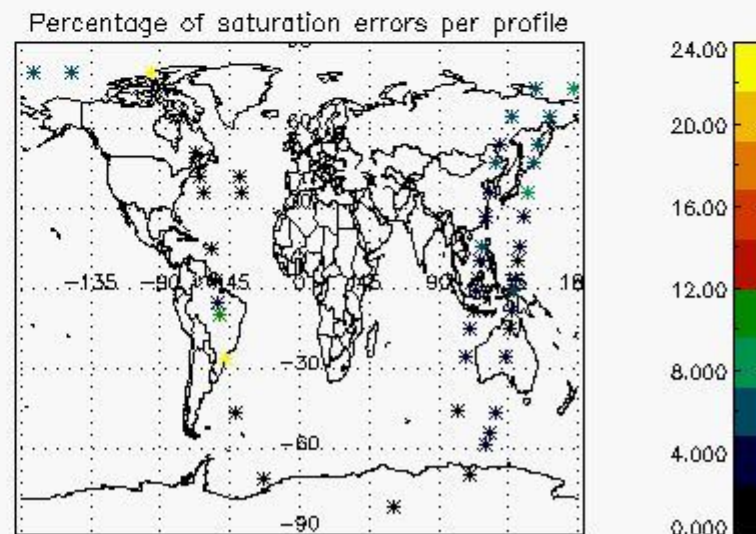
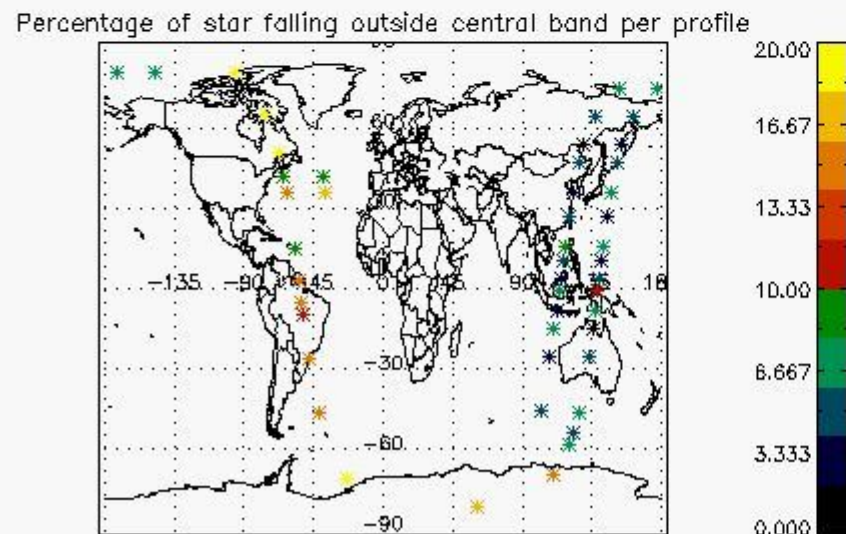
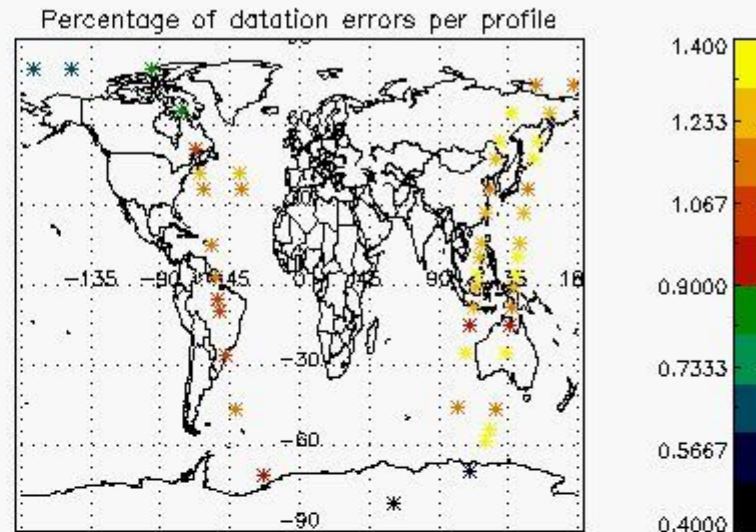
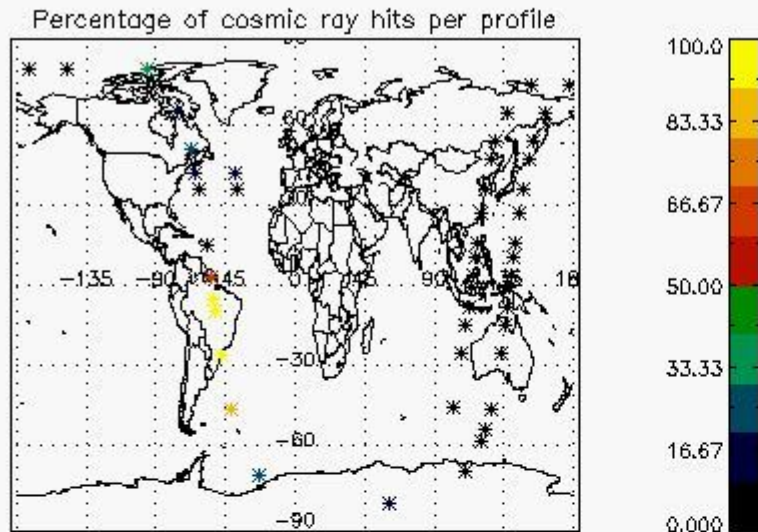
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.5000 %
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)

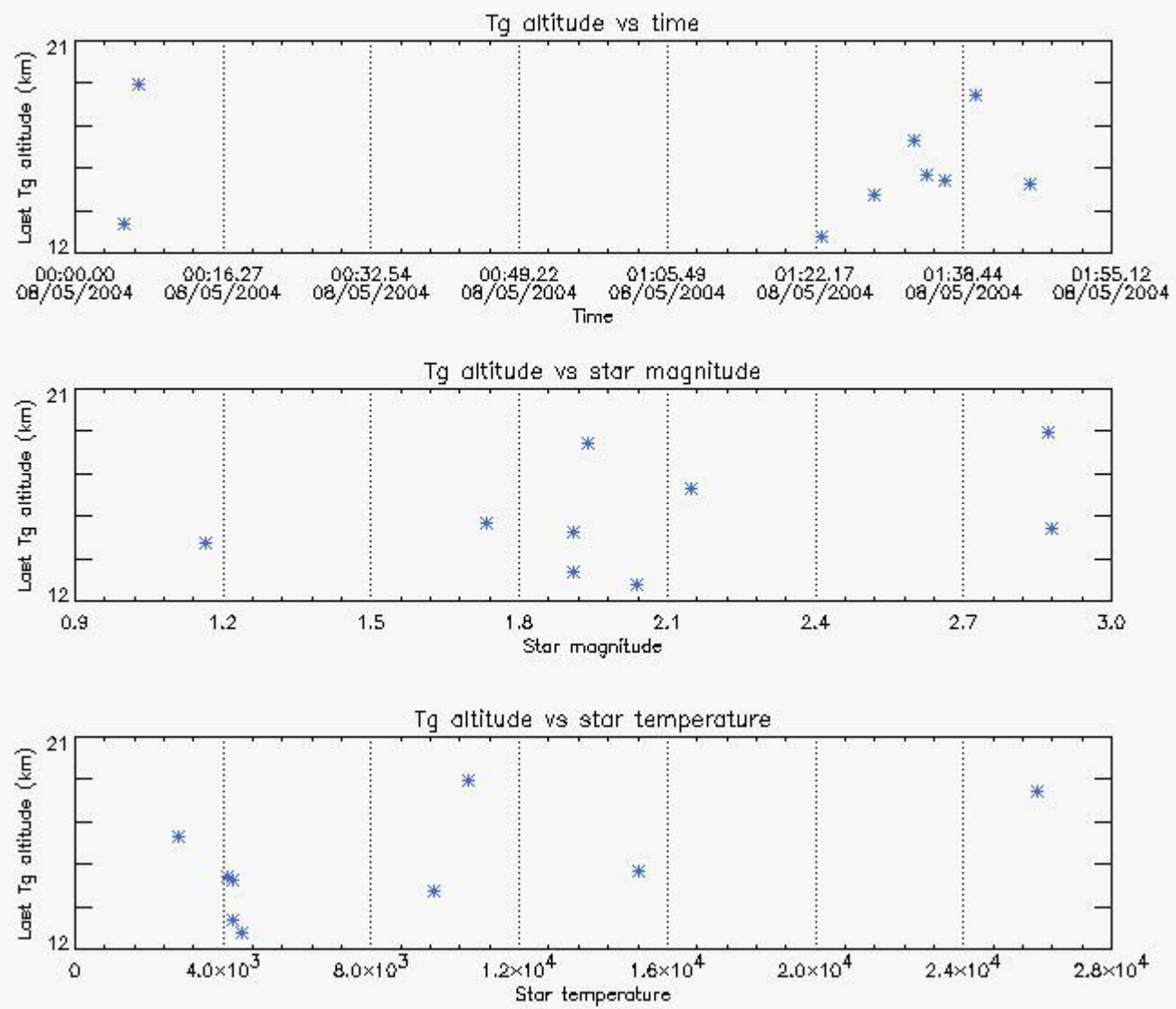
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.596	21.091	13.971
St. deviation:	2.2356	2.8074	2.6822
Maximum:	19.184	25.277	18.304
Minimum:	12.674	12.067	11.825
Number of data:	9.0000	34.000	5.0000

### 6.2 Plot for DARK limb products

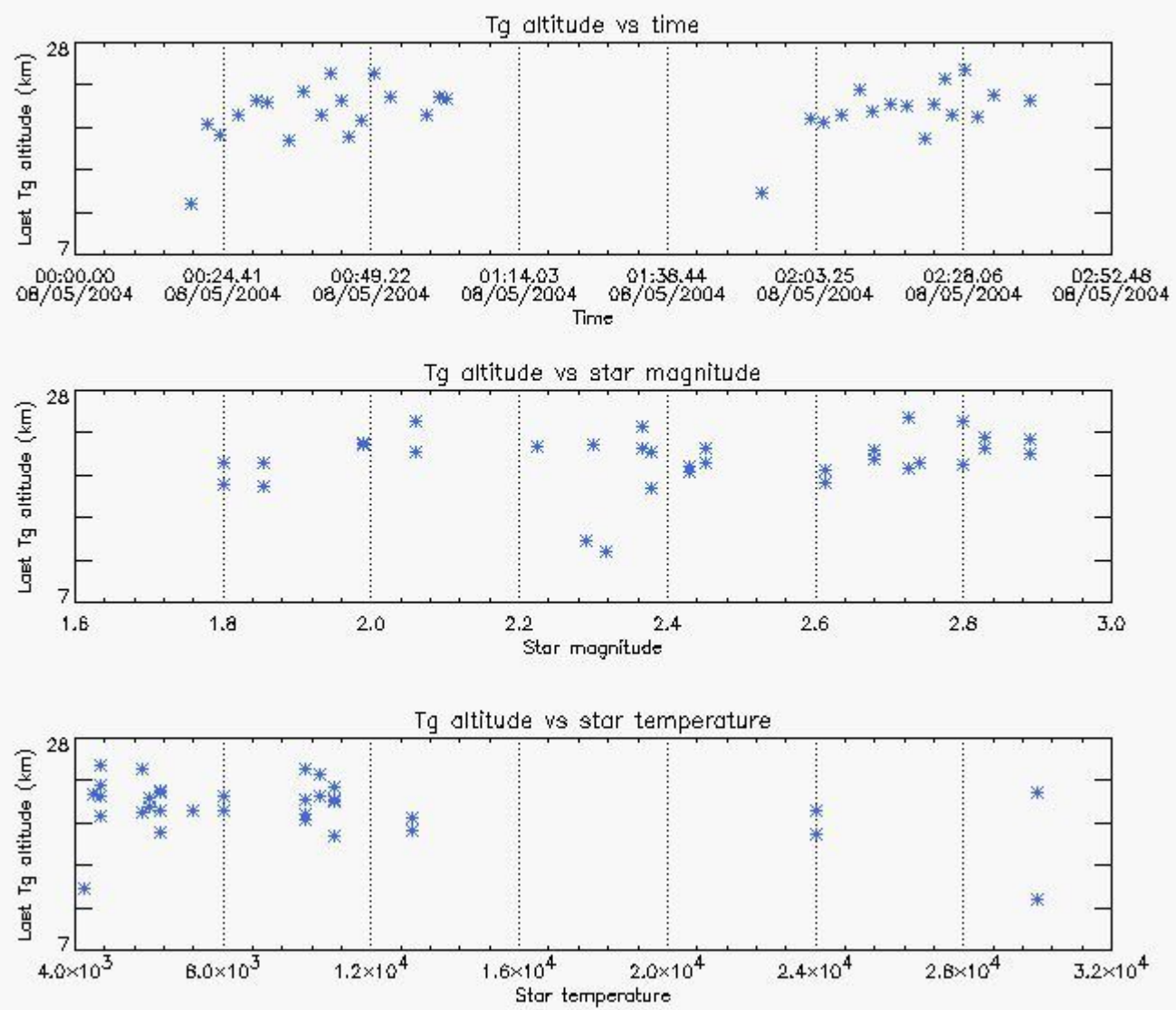


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

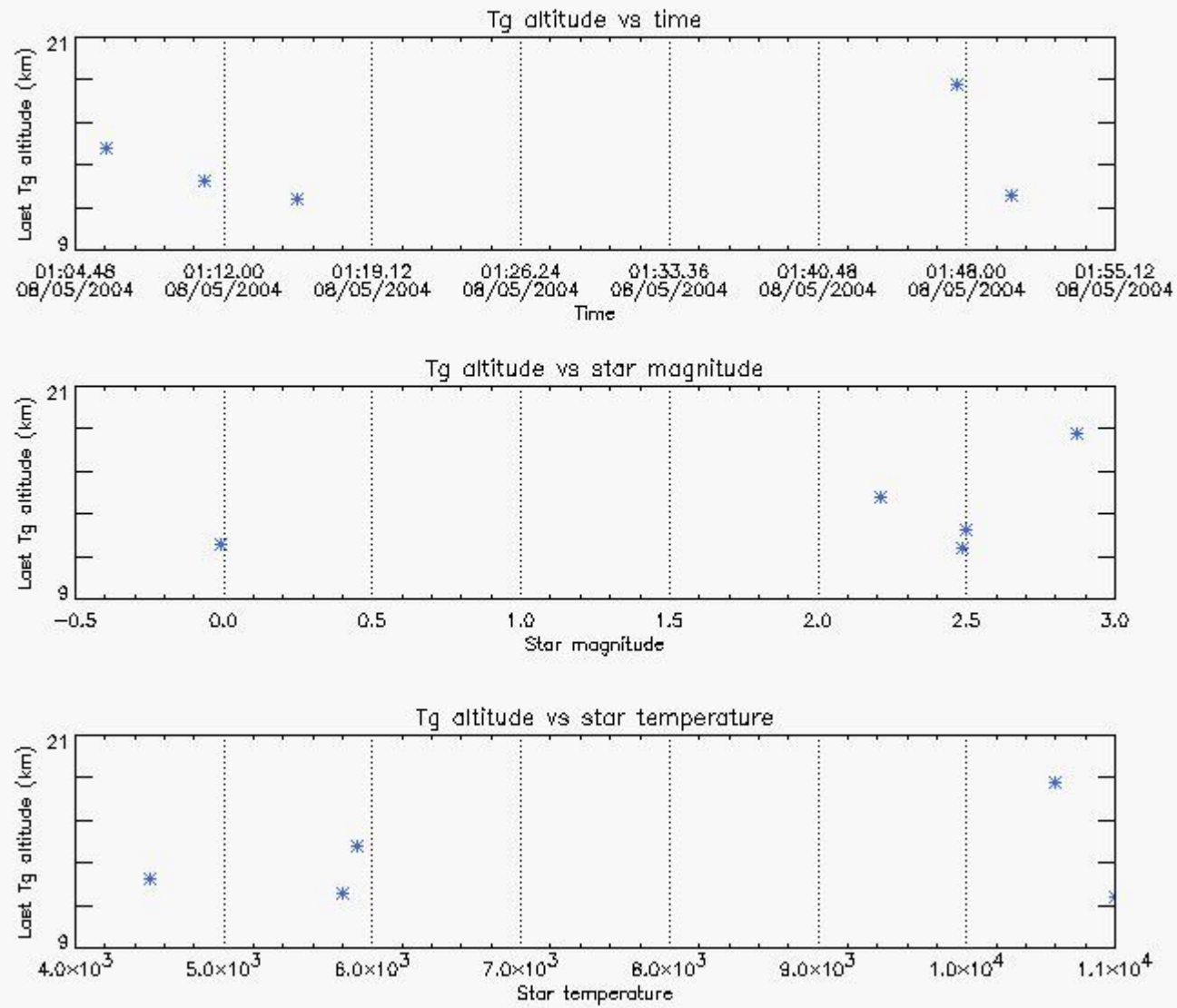
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



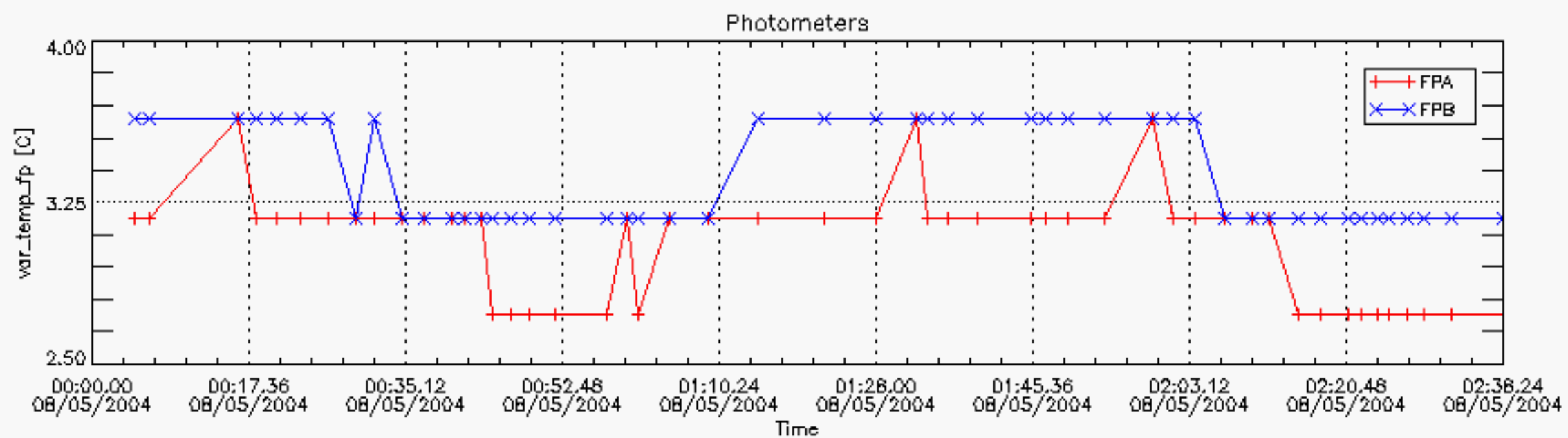
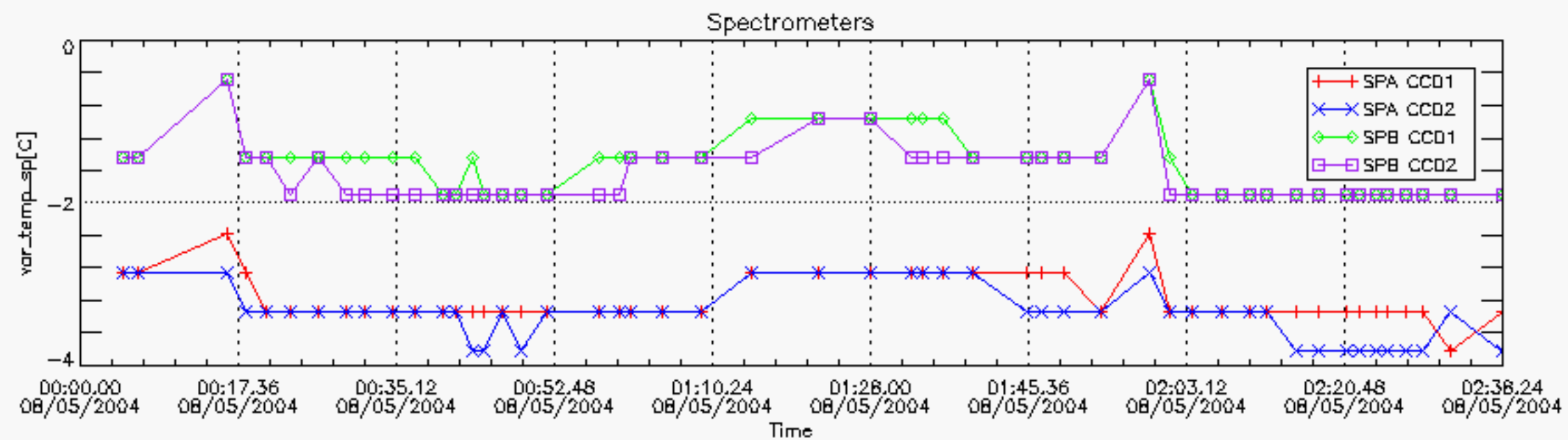
### Tangent altitude at which the star is lost

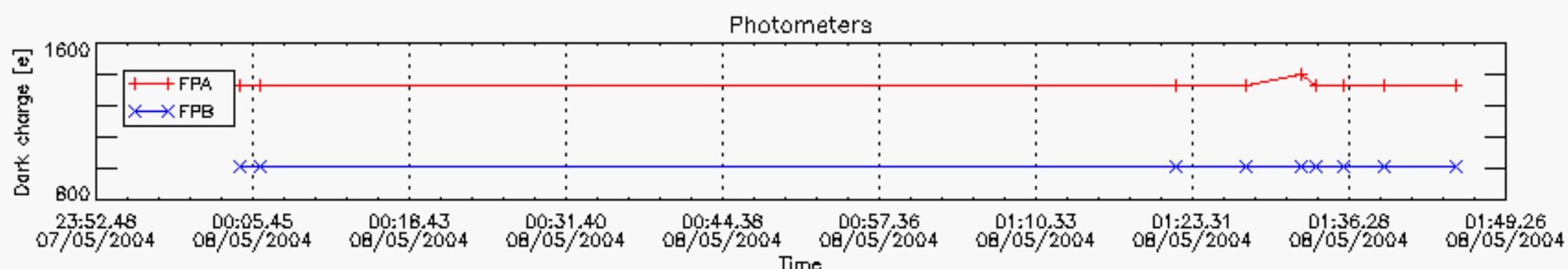
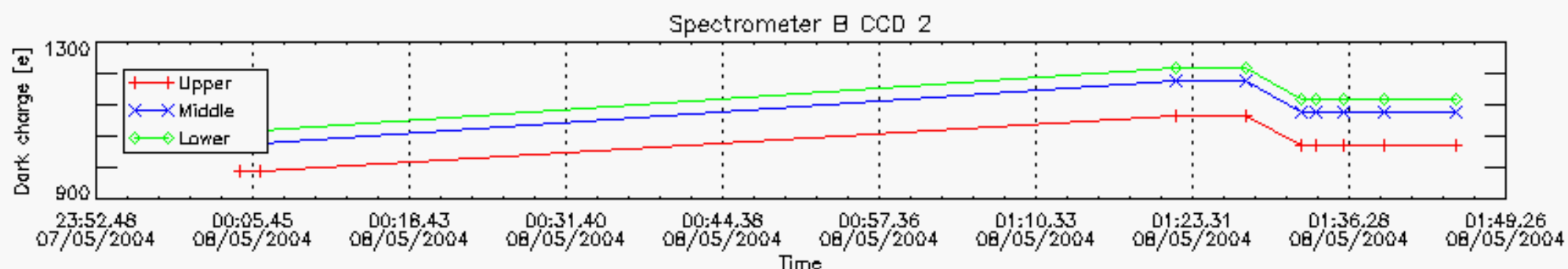
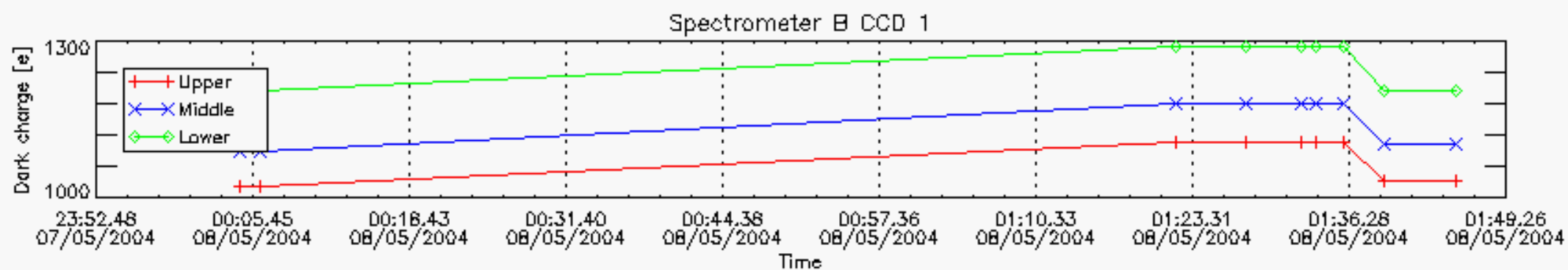
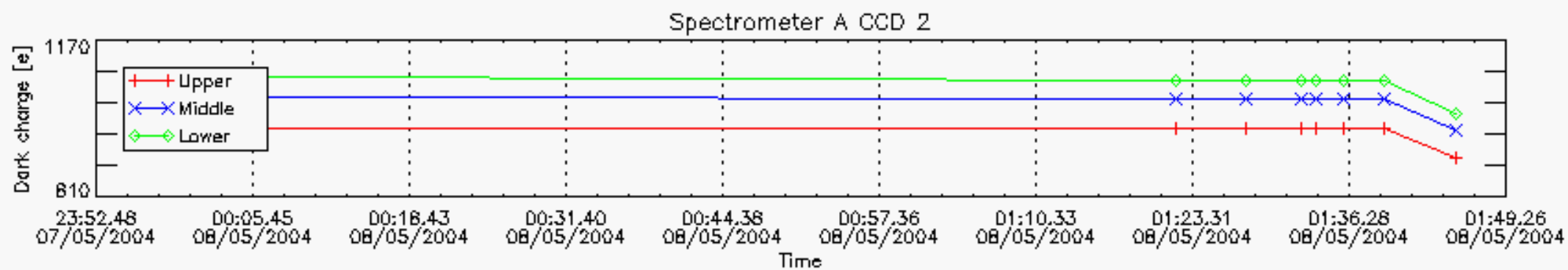
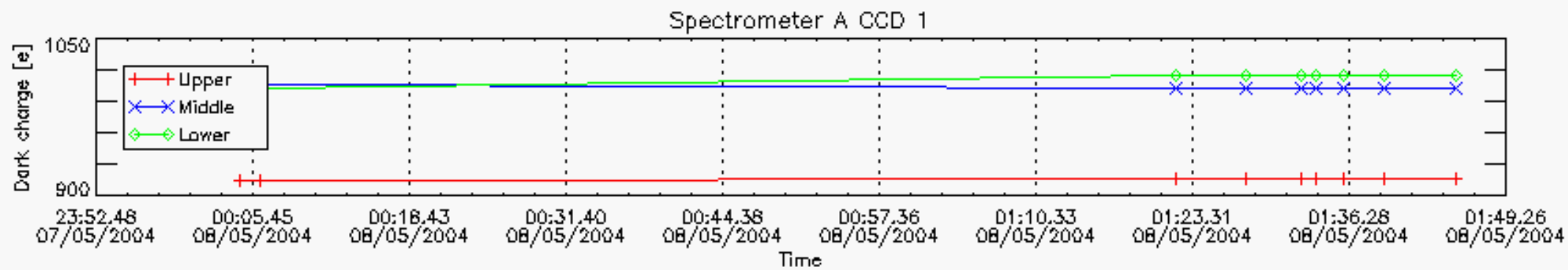


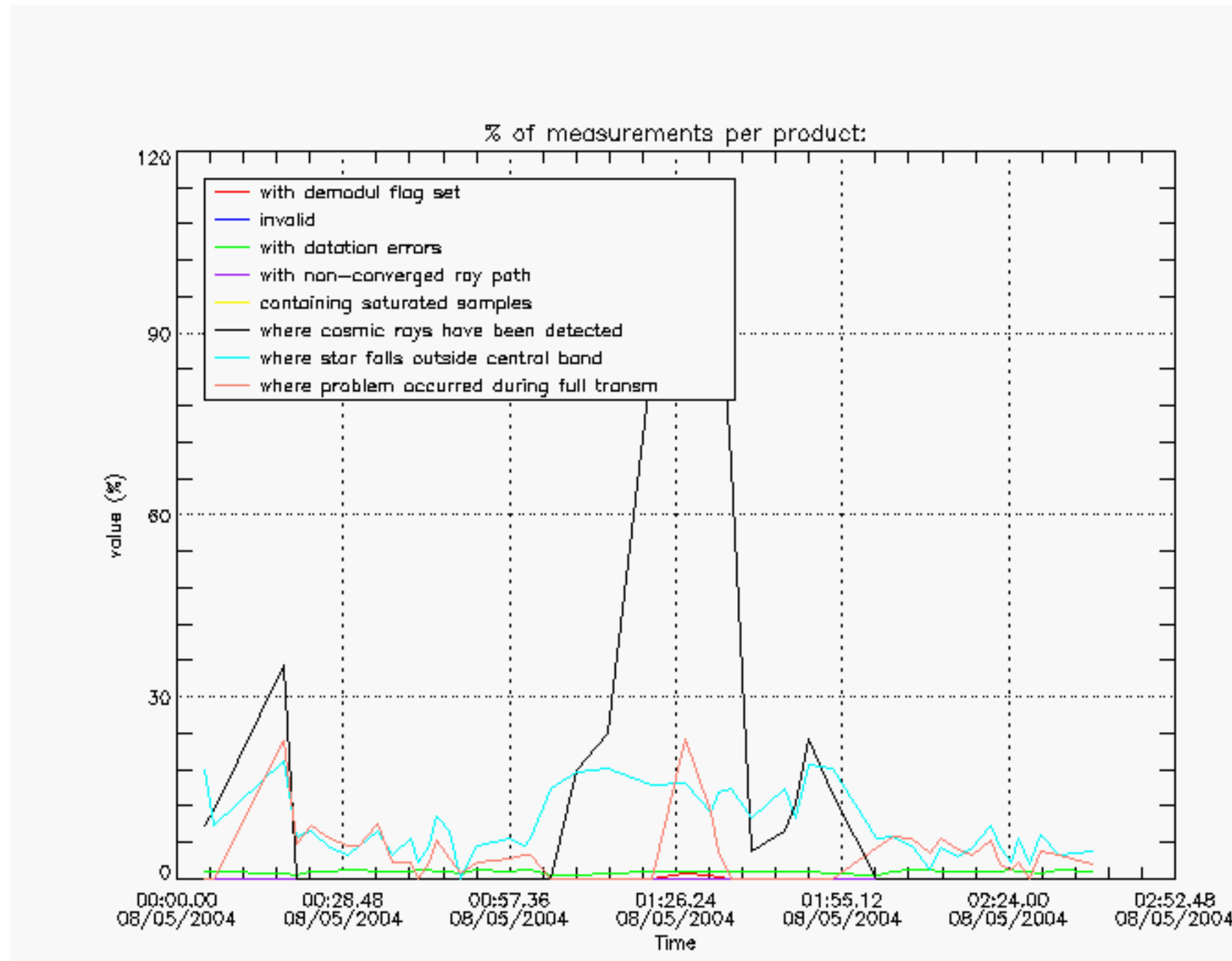
### 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1460.3	1446.4	1461.6	1447.2
St. deviation:	4.2344	5.6531	7.8651	8.7899
Maximum:	1500.0	1503.0	1510.0	1505.0
Minimum:	1453.0	1435.0	1433.0	1424.0
Number of data:	11000.	11000.	39950.	39950.

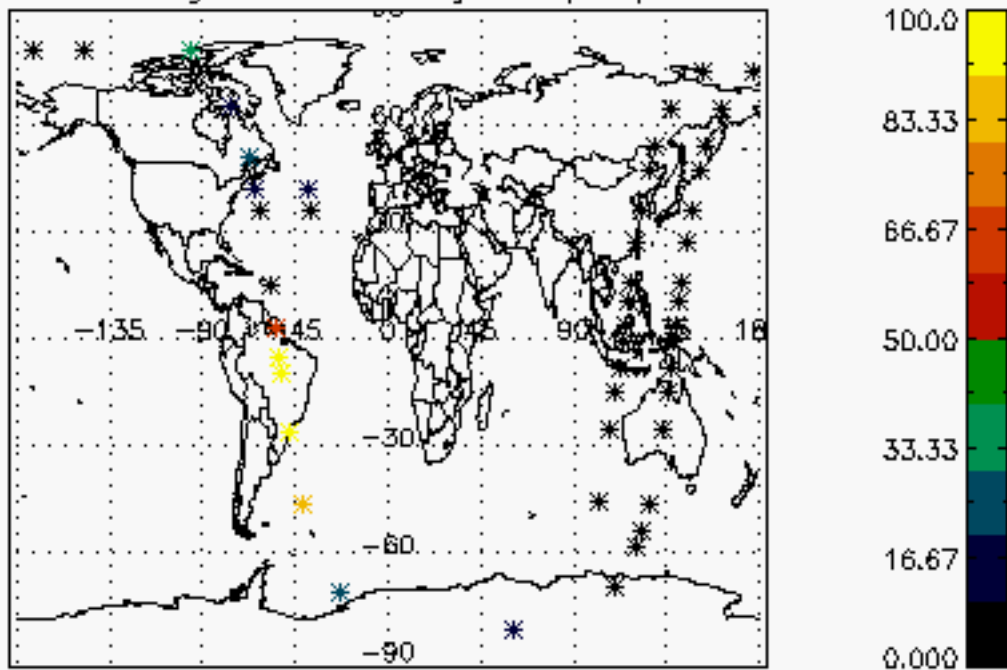




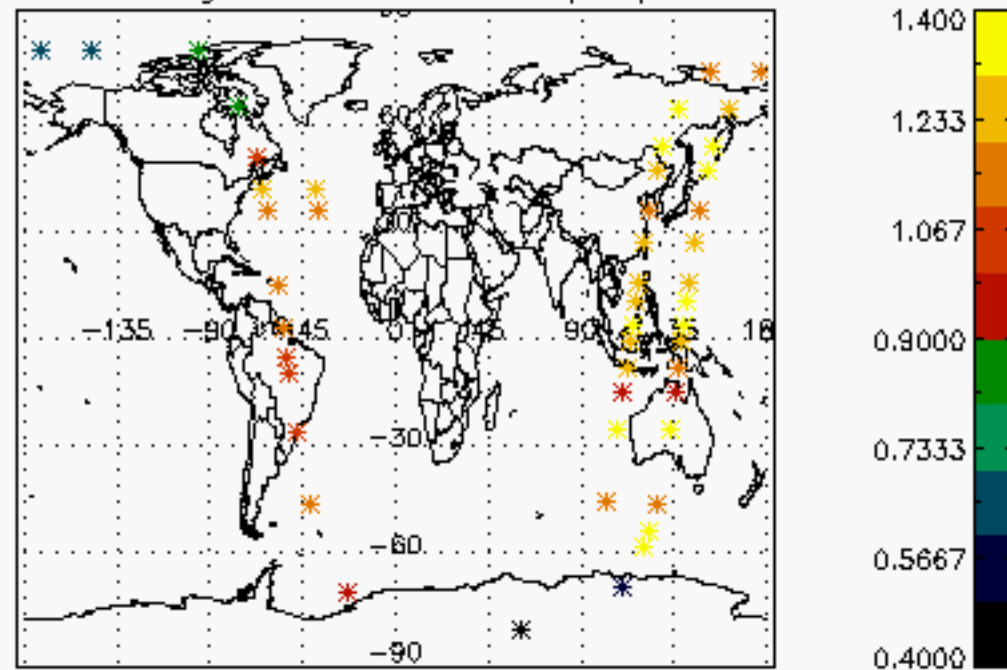




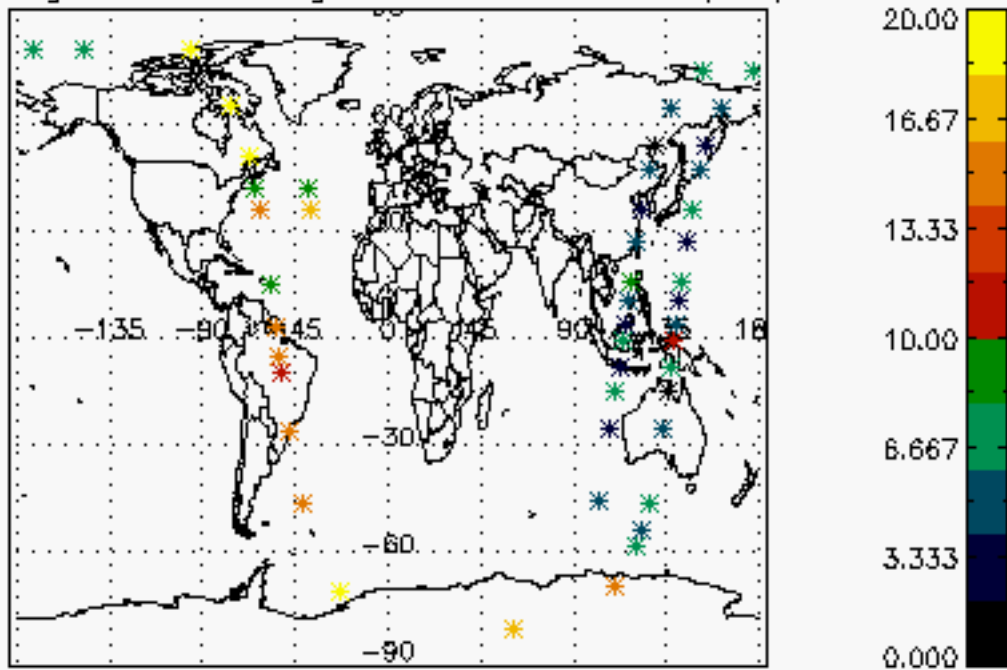
Percentage of cosmic ray hits per profile



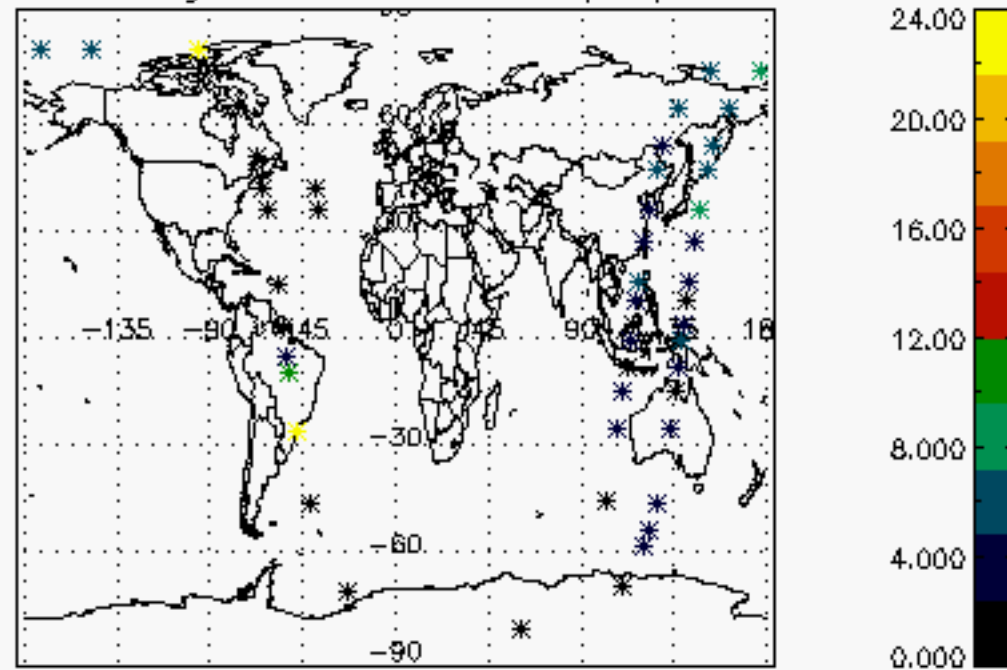
Percentage of datation errors per profile



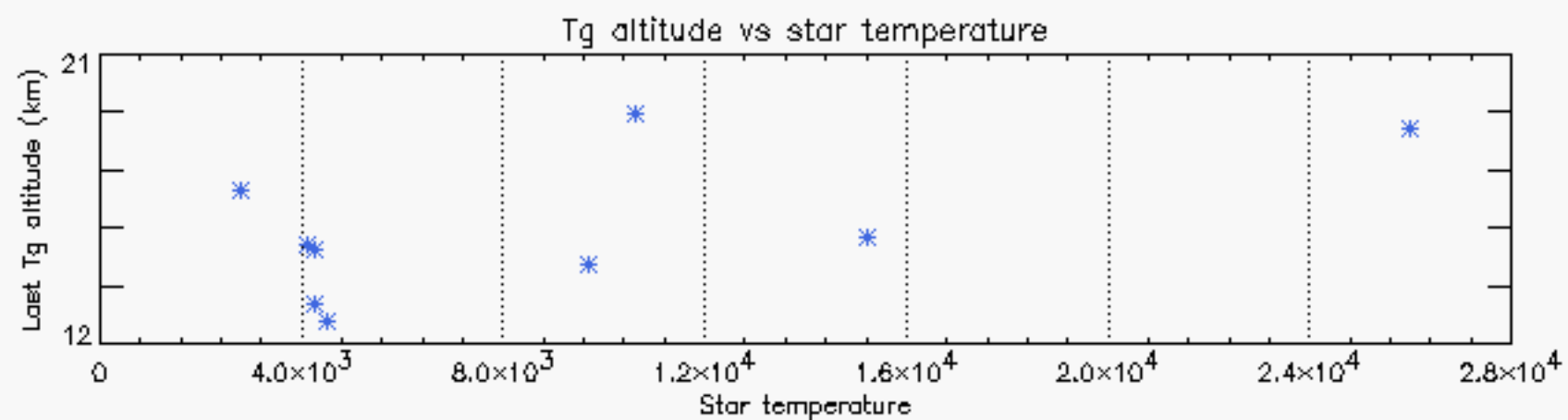
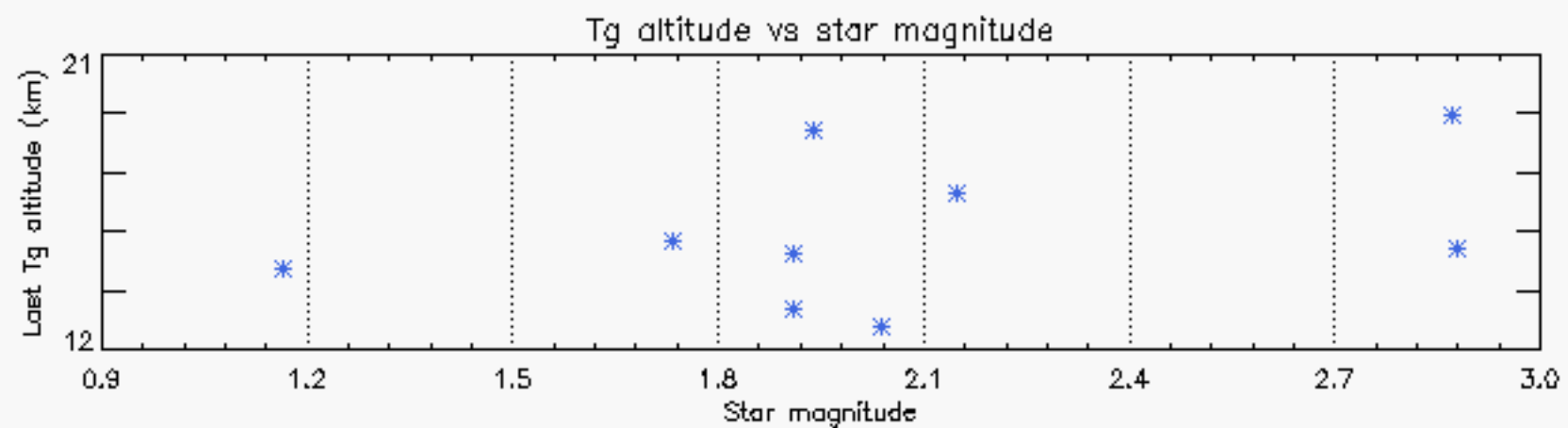
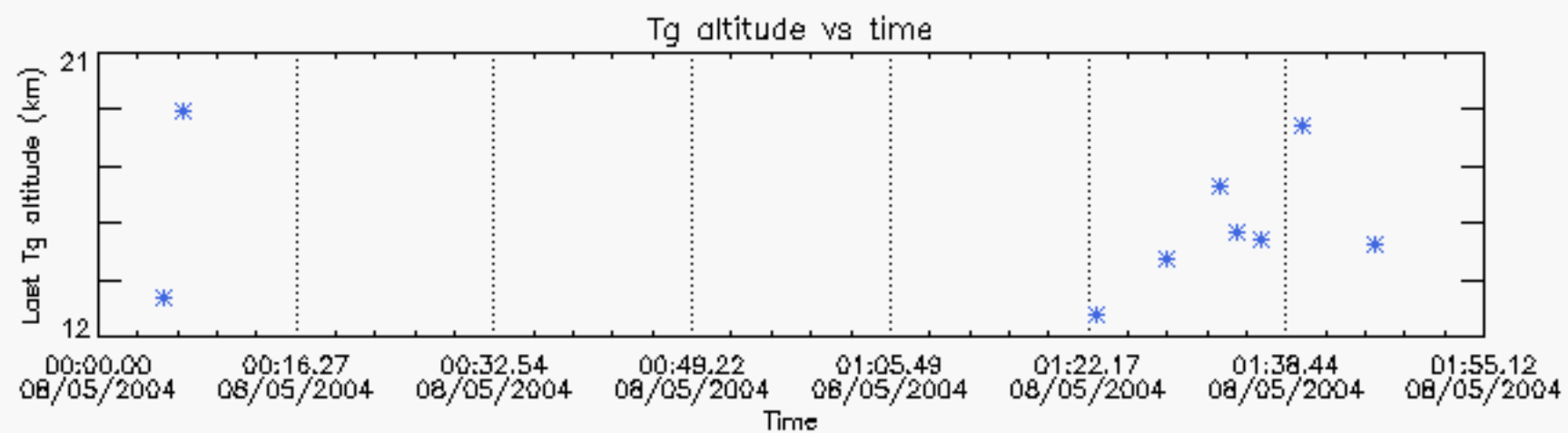
Percentage of star falling outside central band per profile



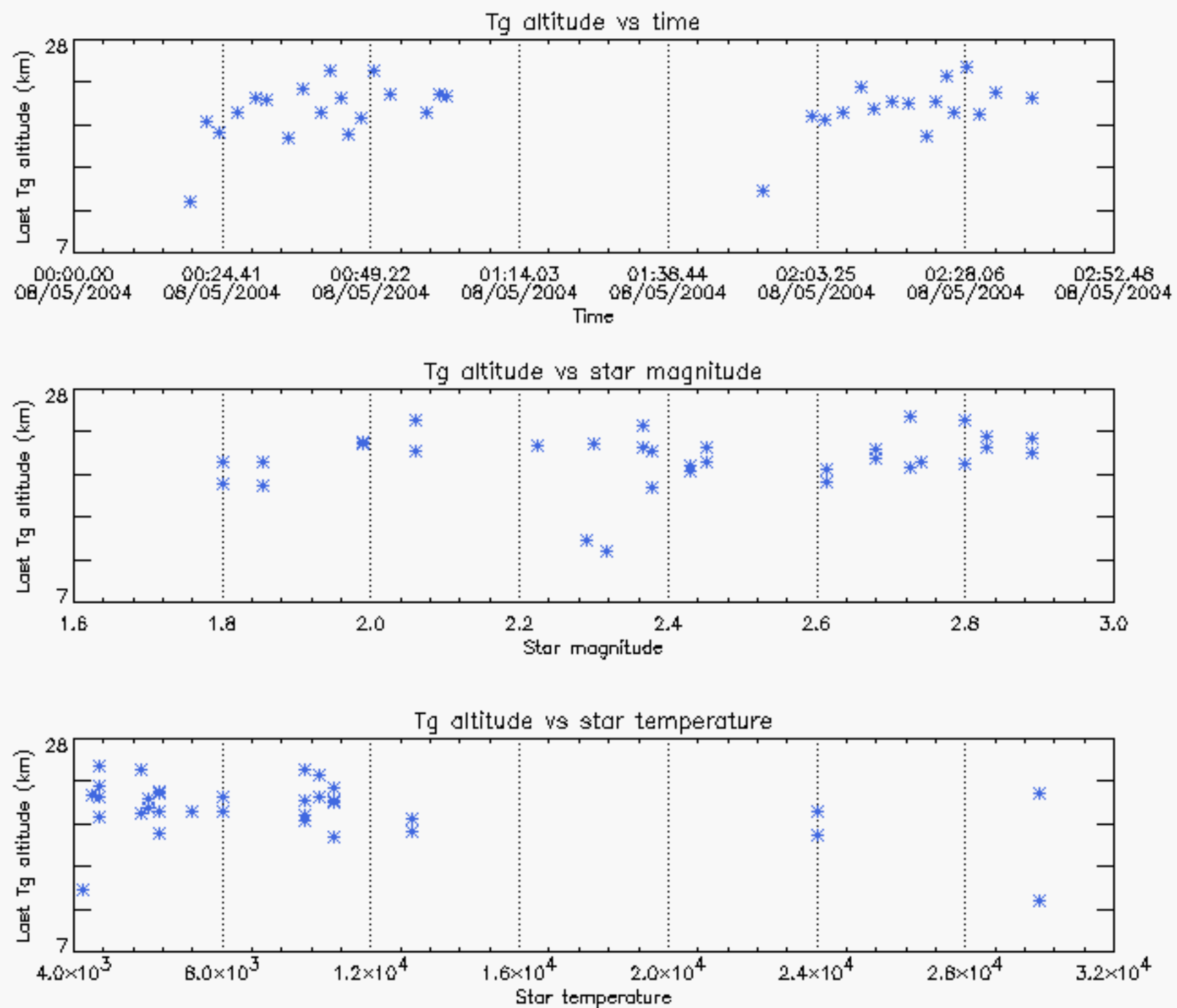
Percentage of saturation errors per profile



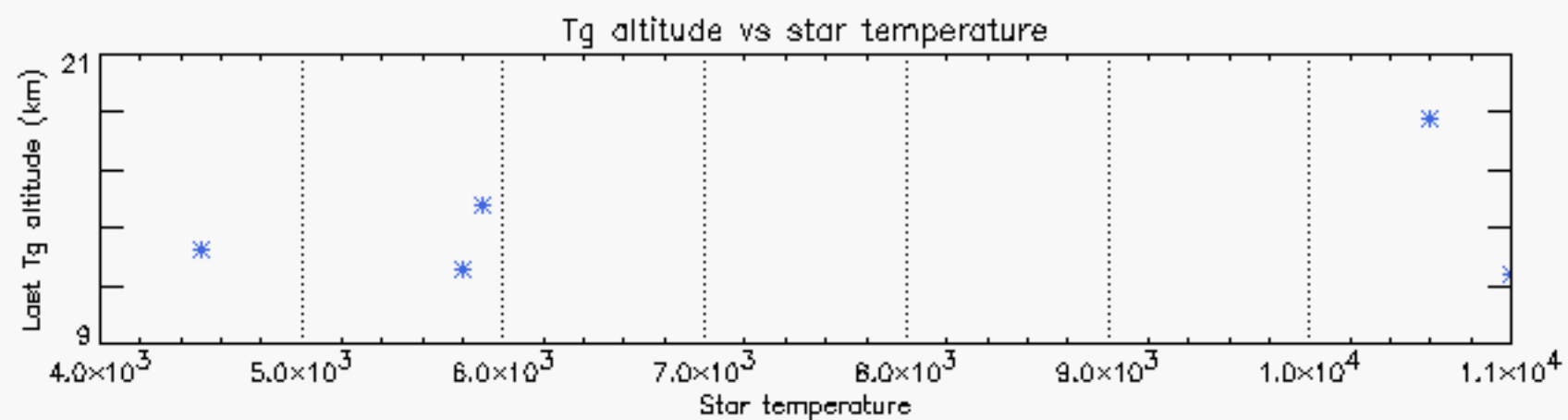
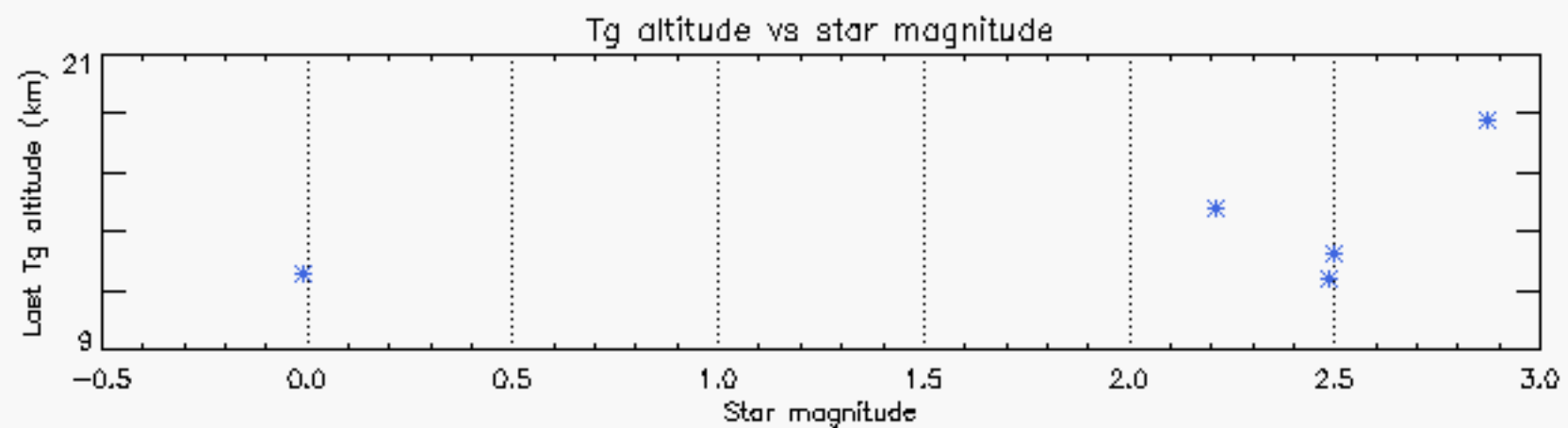
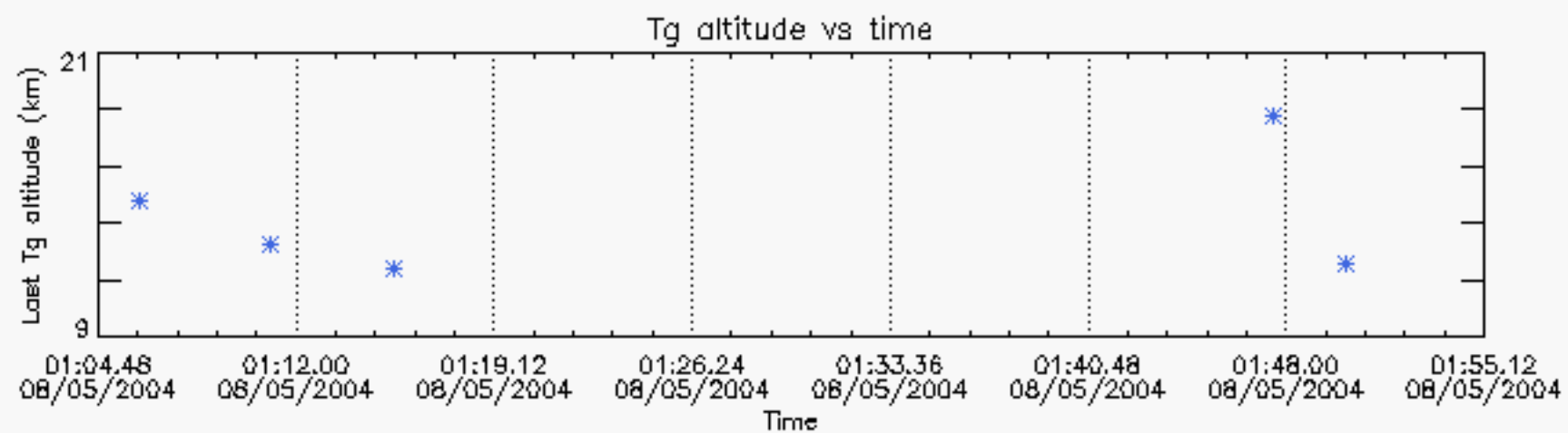
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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1;	-4310.1;	01-MAY-2004	05:45:16;	Bright;	48.5;	104;	27Bet Lib	;	2.61;	13100;occ;	97;	0;	11339
2;	-4139.5;	01-MAY-2004	05:48:07;	Bright;	36.5;	121;	29Gam Vir	;	2.74;	7200;occ;	73;	0;	11339
3;	-3940.9;	01-MAY-2004	05:51:25;	Bright;	37.0;	138;	47Eps Vir	;	2.83;	4700;occ;	74;	0;	11339
4;	-3804.9;	01-MAY-2004	05:53:41;	Bright;	39.0;	111;	8Eta Boo	;	2.68;	6000;occ;	78;	0;	11339
5;	-3585.7;	01-MAY-2004	05:57:21;	Bright;	43.0;	83;		;	2.38;	11000;occ;	86;	0;	11339
6;	-3477.6;	01-MAY-2004	05:59:09;	Bright;	37.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	75;	0;	11339
7;	-3306.6;	01-MAY-2004	06:02:00;	Bright;	36.0;	174;	52Psi UMa	;	3.00;	4400;occ;	72;	0;	11339
8;	-3203.1;	01-MAY-2004	06:03:43;	Bright;	37.0;	87;	64Gam UMa	;	2.43;	11000;occ;	74;	0;	11339
9;	-3118.2;	01-MAY-2004	06:05:08;	Bright;	38.0;	82;	48Bet UMa	;	2.37;	10600;occ;	76;	0;	11339
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21;	-792.7;	01-MAY-2004	06:43:53;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	90;	0;	11339
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24;	-361.7;	01-MAY-2004	06:51:05;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	11339
25;	-233.8;	01-MAY-2004	06:53:12;	Dark	;	172;	Gam Gru	;	3.00;	13100;occ;	87;	0;	11339
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27;	11.1;	01-MAY-2004	06:57:17;	Dark	;	148;	Alp Tuc	;	2.88;	4100;occ;	102;	0;	11340
28;	185.4;	01-MAY-2004	07:00:12;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	85;	0;	11340
29;	579.0;	01-MAY-2004	07:06:45;	Dark	;	43;	Alp TrA	;	1.91;	4250;occ;	86;	0;	11340
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17;	-2035.2;	02-MAY-2004	00:49:46;	Bright;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	11350	
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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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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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3;-4456.0; 24-MAY-2004 15:23:30; Bright; 53.0; 86; 35Eta Oph ; 2.43; 10200;occ; 106; 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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21;-1229.6; 24-MAY-2004 16:17:17; Dark ; 48.0; 140; 88Gam Peg ; 2.83; 26000;occ; 96; 0;11674
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
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25;-238.7; 24-MAY-2004 16:33:48; Dark ; 59.5; 18; 24Alp PsA ; 1.17; 9700;occ; 119; 0;11674
26;-127.9; 24-MAY-2004 16:35:38; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;11674
27;-5.8; 24-MAY-2004 16:37:41; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;11674
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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
35; 1215.4; 24-MAY-2004 16:58:02; Dark ; 54.0; 75; 26Eps Sco ; 2.29; 4250;occ; 108; 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
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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
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11;	-3668.2;	24-MAY-2004	18:57:50;	Bright	;	40.0;	83;			;	2.38;	11000;	occ;	80;	0;	11676
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