

# GOMOS Daily Report 04-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	05MAY2004 03:41:53
Data source version	GOMOS/4.02
Start time of products	04-MAY-2004 (04MAY2004 00:00:00)
Stop time of products	05-MAY-2004 (05MAY2004 00:00:00)

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

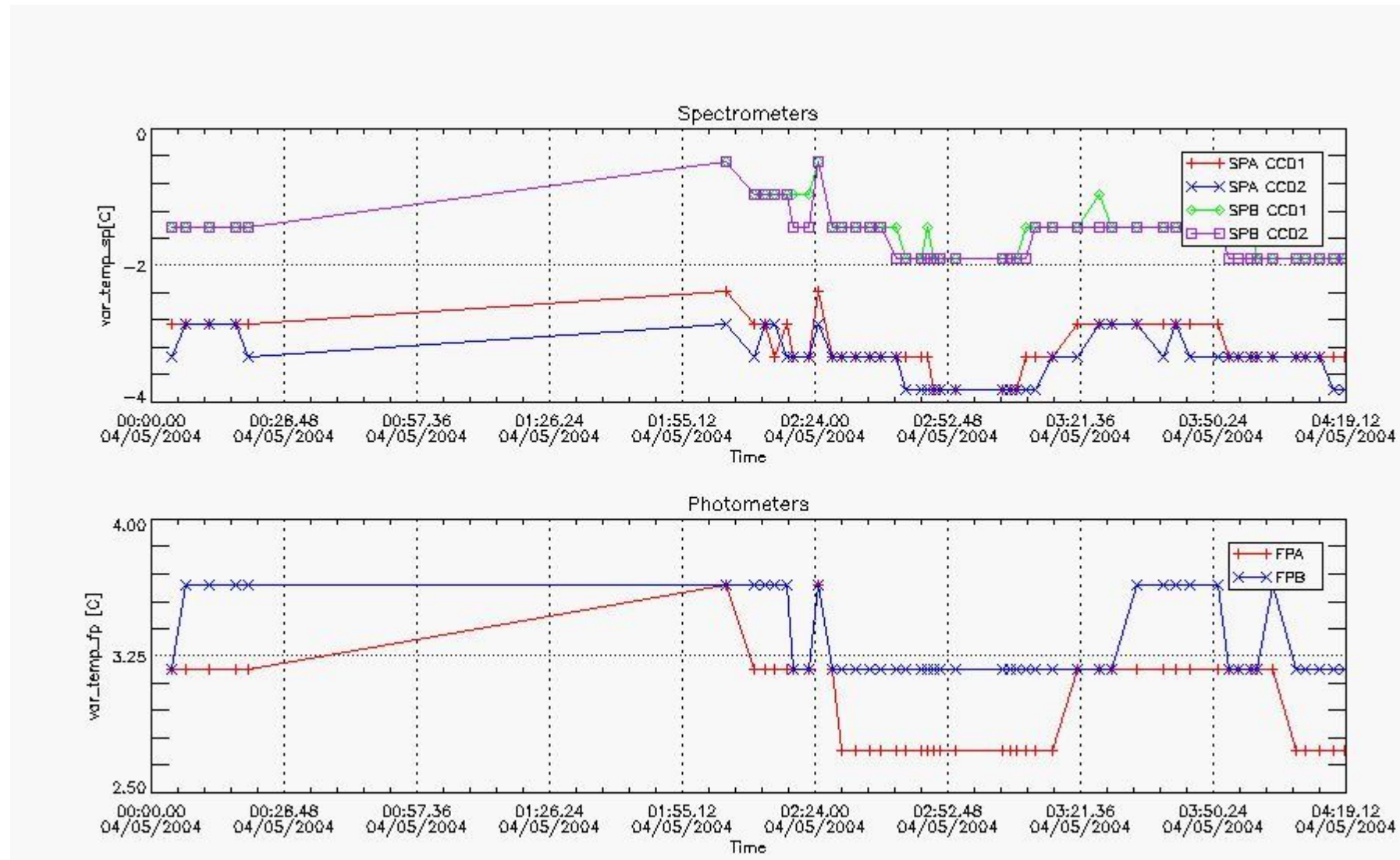
## 2. Summary of products arrived in PCF

### 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_1PNPDE20040504_000425_000000752026_00302_11378_0021.N1	04-MAY-2004 00:04:25	Dark	74.500	61	8Eps Peg	2.1000	3900.0	149	11378	No
GOM_TRA_1PNPDE20040504_000719_000000462026_00302_11378_0022.N1	04-MAY-2004 00:07:19	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	11378	No
GOM_TRA_1PNPDE20040504_001236_000000472026_00302_11378_0023.N1	04-MAY-2004 00:12:36	Dark	46.500	18	24Alp PsA	1.1660	9700.0	93	11378	No
GOM_TRA_1PNPDE20040504_001824_000000432026_00302_11378_0024.N1	04-MAY-2004 00:18:24	Dark	43.000	31	Alp Gru	1.7340	15200.	86	11378	No
GOM_TRA_1PNPDE20040504_002050_000000502026_00303_11379_0025.N1	04-MAY-2004 00:20:50	Dark	49.500	148	Alp Tuc	2.8780	4100.0	99	11379	No
GOM_TRA_1PNPDE20040504_020434_000000442026_00304_11380_0000.N1	04-MAY-2004 02:04:34	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11380	No
GOM_TRA_1PNPDE20040504_021055_000000402026_00304_11380_0001.N1	04-MAY-2004 02:10:55	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	11380	No
GOM_TRA_1PNPDE20040504_021307_000000412026_00304_11380_0002.N1	04-MAY-2004 02:13:07	Twilight	40.500	134	Bet TrA	2.8100	6600.0	81	11380	No
GOM_TRA_1PNPDE20040504_021505_000000452026_00304_11380_0003.N1	04-MAY-2004 02:15:05	Twilight	44.500	4	Alp1Cen	-0.010000	5800.0	89	11380	No
GOM_TRA_1PNPDE20040504_021746_000000432026_00304_11380_0004.N1	04-MAY-2004 02:17:46	Bright	42.500	77	Eps Cen	2.3030	28000.	85	11380	No
GOM_TRA_1PNPDE20040504_021916_000000422026_00304_11380_0005.N1	04-MAY-2004 02:19:16	Bright	41.500	95	Zet Cen	2.5450	26000.	83	11380	No
GOM_TRA_1PNPDE20040504_022230_000000662026_00304_11380_0006.N1	04-MAY-2004 02:22:30	Bright	65.500	16	21Alp Sco	1.0200	3000.0	131	11380	No
GOM_TRA_1PNPDE20040504_022435_000000642026_00304_11380_0000.N1	04-MAY-2004 02:24:35	Bright	63.500	80	7Del Sco	2.3160	30000.	127	11380	Yes
GOM_TRA_1PNPDE20040504_022734_000000452026_00304_11380_0001.N1	04-MAY-2004 02:27:34	Bright	44.500	122	9Alp2Lib	2.7470	9700.0	89	11380	No
GOM_TRA_1PNPDE20040504_022947_000000472026_00304_11380_0002.N1	04-MAY-2004 02:29:47	Bright	47.000	104	27Bet Lib	2.6140	13100.	94	11380	No
GOM_TRA_1PNPDE20040504_023244_000000412026_00304_11380_0003.N1	04-MAY-2004 02:32:44	Bright	41.000	121	29Gam Vir	2.7400	7200.0	82	11380	No
GOM_TRA_1PNPDE20040504_023558_000000402026_00304_11380_0004.N1	04-MAY-2004 02:35:58	Bright	40.000	138	47Eps Vir	2.8280	4700.0	80	11380	No
GOM_TRA_1PNPDE20040504_023807_000000402026_00304_11380_0005.N1	04-MAY-2004 02:38:07	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	11380	No
GOM_TRA_1PNPDE20040504_024134_000000422026_00304_11380_0006.N1	04-MAY-2004 02:41:34	Bright	42.000	83		2.3780	11000.	84	11380	No
GOM_TRA_1PNPDE20040504_024341_000000372026_00304_11380_0007.N1	04-MAY-2004 02:43:41	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	11380	No
GOM_TRA_1PNPDE20040504_024702_000000392026_00304_11380_0008.N1	04-MAY-2004 02:47:02	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	11380	No
GOM_TRA_1PNPDE20040504_024826_000000382026_00304_11380_0009.N1	04-MAY-2004 02:48:26	Bright	37.500	55	79Zet UMa	2.0600	10200.	75	11380	No
GOM_TRA_1PNPDE20040504_024953_000000372026_00304_11380_0010.N1	04-MAY-2004 02:49:53	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	11380	No
GOM_TRA_1PNPDE20040504_025109_000000382026_00304_11380_0011.N1	04-MAY-2004 02:51:09	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	11380	No
GOM_TRA_1PNPDE20040504_025430_000000362026_00304_11380_0012.N1	04-MAY-2004 02:54:30	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	11380	No
GOM_TRA_1PNPDE20040504_030435_000000432026_00304_11380_0013.N1	04-MAY-2004 03:04:35	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	11380	No
GOM_TRA_1PNPDE20040504_030627_000000352026_00304_11380_0014.N1	04-MAY-2004 03:06:27	Bright	34.500	110	37Del Cas	2.6780	8900.0	69	11380	No
GOM_TRA_1PNPDE20040504_030745_000000522026_00304_11380_0015.N1	04-MAY-2004 03:07:45	Bright	51.500	68	18Alp Cas	2.2250	4500.0	103	11380	No
GOM_TRA_1PNPDE20040504_030941_000000672026_00304_11380_0016.N1	04-MAY-2004 03:09:41	Bright	66.500	19	50Alp Cyg	1.2460	10500.	133	11380	No
GOM_TRA_1PNPDE20040504_031140_000000822026_00304_11380_0017.N1	04-MAY-2004 03:11:40	Twilight	81.500	66	37Gam Cyg	2.2080	5900.0	163	11380	No
GOM_TRA_1PNPDE20040504_031538_000000932026_00304_11380_0018.N1	04-MAY-2004 03:15:38	Twilight	92.500	92	53Eps Cyg	2.5000	4500.0	185	11380	No
GOM_TRA_1PNPDE20040504_032049_000000522026_00304_11380_0019.N1	04-MAY-2004 03:20:49	Twilight	52.000	90	54Alp Peg	2.4870	11000.	104	11380	No
GOM_TRA_1PNPDE20040504_032539_000000762026_00304_11380_0020.N1	04-MAY-2004 03:25:39	Dark	75.500	61	8Eps Peg	2.1000	3900.0	151	11380	No
GOM_TRA_1PNPDE20040504_032830_000000462026_00304_11380_0021.N1	04-MAY-2004 03:28:30	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	11380	No
GOM_TRA_1PNPDE20040504_033349_000000472026_00304_11380_0022.N1	04-MAY-2004 03:33:49	Dark	47.000	18	24Alp PsA	1.1660	9700.0	94	11380	No
GOM_TRA_1PNPDE20040504_033938_000000482026_00304_11380_0023.N1	04-MAY-2004 03:39:38	Dark	47.500	31	Alp Gru	1.7340	15200.	95	11380	No
GOM_TRA_1PNPDE20040504_034206_000000472026_00305_11381_0024.N1	04-MAY-2004 03:42:06	Dark	46.500	148	Alp Tuc	2.8780	4100.0	93	11381	No
GOM_TRA_1PNPDE20040504_034511_000000422026_00305_11381_0025.N1	04-MAY-2004 03:45:11	Dark	42.000	45	Alp Pav	1.9400	26000.	84	11381	No
GOM_TRA_1PNPDE20040504_035132_000000432026_00305_11381_0026.N1	04-MAY-2004 03:51:32	Dark	42.500	43	Alp TrA	1.9100	4250.0	85	11381	No
GOM_TRA_1PNPDE20040504_035344_000000402026_00305_11381_0027.N1	04-MAY-2004 03:53:44	Twilight	40.000	134	Bet TrA	2.8100	6600.0	80	11381	No
GOM_TRA_1PNPDE20040504_035543_000000492026_00305_11381_0028.N1	04-MAY-2004 03:55:43	Twilight	48.500	4	Alp1Cen	-0.010000	5800.0	97	11381	No
GOM_TRA_1PNPDE20040504_035825_000000392026_00305_11381_0029.N1	04-MAY-2004 03:58:25	Bright	39.000	77	Eps Cen	2.3030	28000.	78	11381	No
GOM_TRA_1PNPDE20040504_035955_000000392026_00305_11381_0030.N1	04-MAY-2004 03:59:55	Bright	38.500	95	Zet Cen	2.5450	26000.	77	11381	No
GOM_TRA_1PNPDE20040504_040307_000000702026_00305_11381_0031.N1	04-MAY-2004 04:03:07	Bright	69.500	16	21Alp Sco	1.0200	3000.0	139	11381	No
GOM_TRA_1PNPDE20040504_040813_000000432026_00305_11381_0000.N1	04-MAY-2004 04:08:13	Bright	42.500	122	9Alp2Lib	2.7470	9700.0	85	11381	No
GOM_TRA_1PNPDE20040504_041023_000000462026_00305_11381_0001.N1	04-MAY-2004 04:10:23	Bright	45.500	104	27Bet Lib	2.6140	13100.	91	11381	No
GOM_TRA_1PNPDE20040504_041321_000000392026_00305_11381_0002.N1	04-MAY-2004 04:13:21	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	11381	No
GOM_TRA_1PNPDE20040504_041637_000000372026_00305_11381_0003.N1	04-MAY-2004 04:16:37	Bright	36.500	138	47Eps Vir	2.8280	4700.0	73	11381	No
GOM_TRA_1PNPDE20040504_041844_000000382026_00305_11381_0004.N1	04-MAY-2004 04:18:44	Bright	38.000	111	8Eta Boo	2.6800	6000.0	76	11381	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).

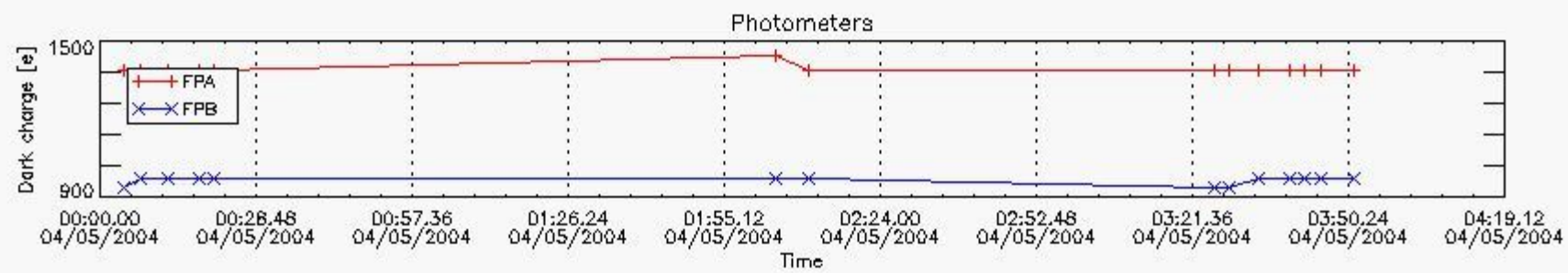
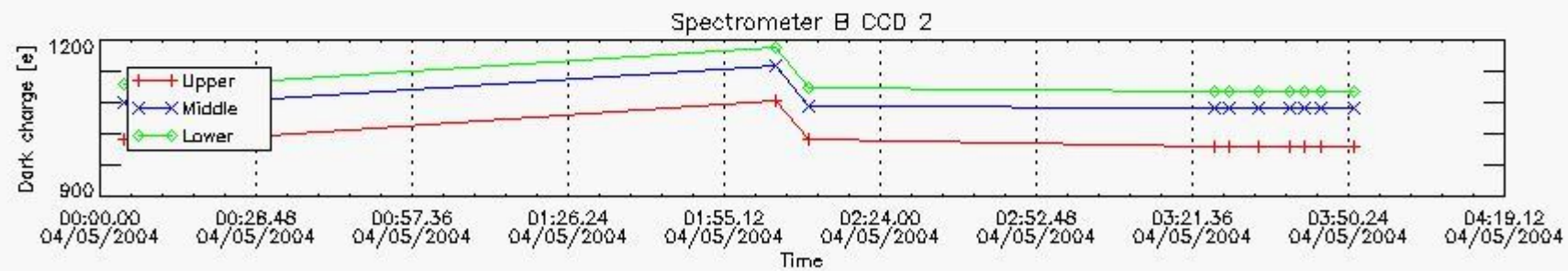
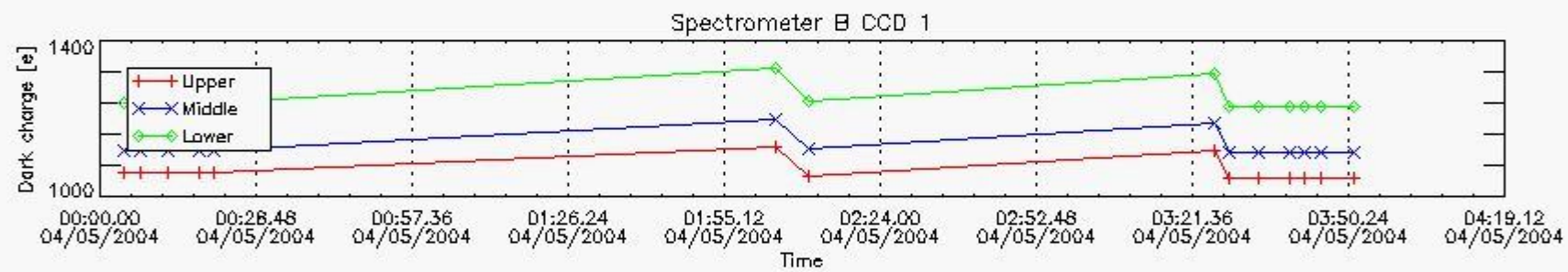
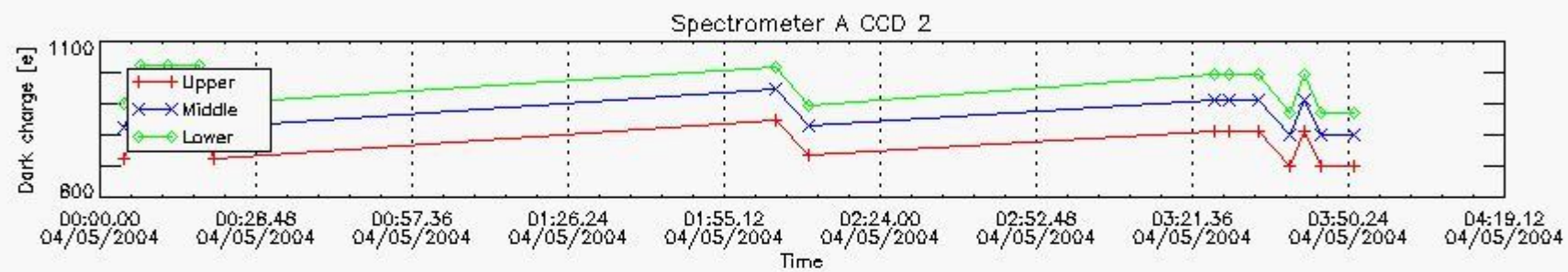
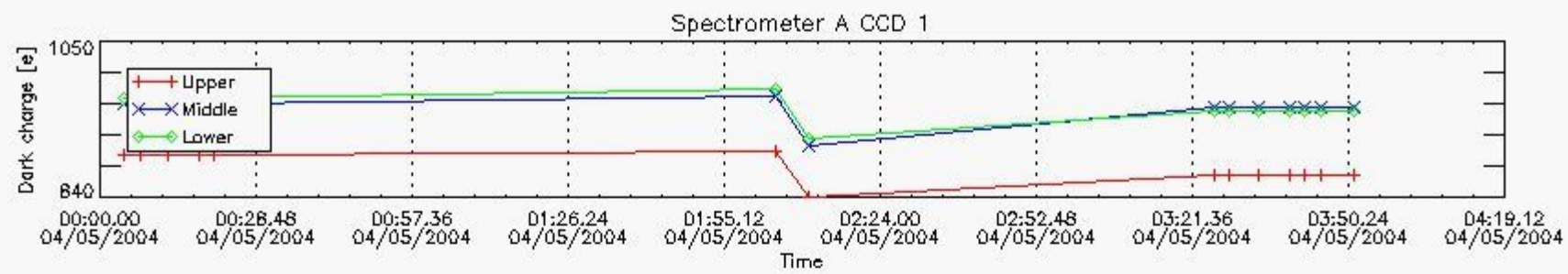
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20040504_020434_000000442026_00304_11380_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040504_021055_000000402026_00304_11380_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040504_021307_000000412026_00304_11380_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040504_021505_000000452026_00304_11380_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040504_021746_000000432026_00304_11380_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040504_021916_000000422026_00304_11380_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040504_022230_000000662026_00304_11380_0006.N1	DC map used (0)

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





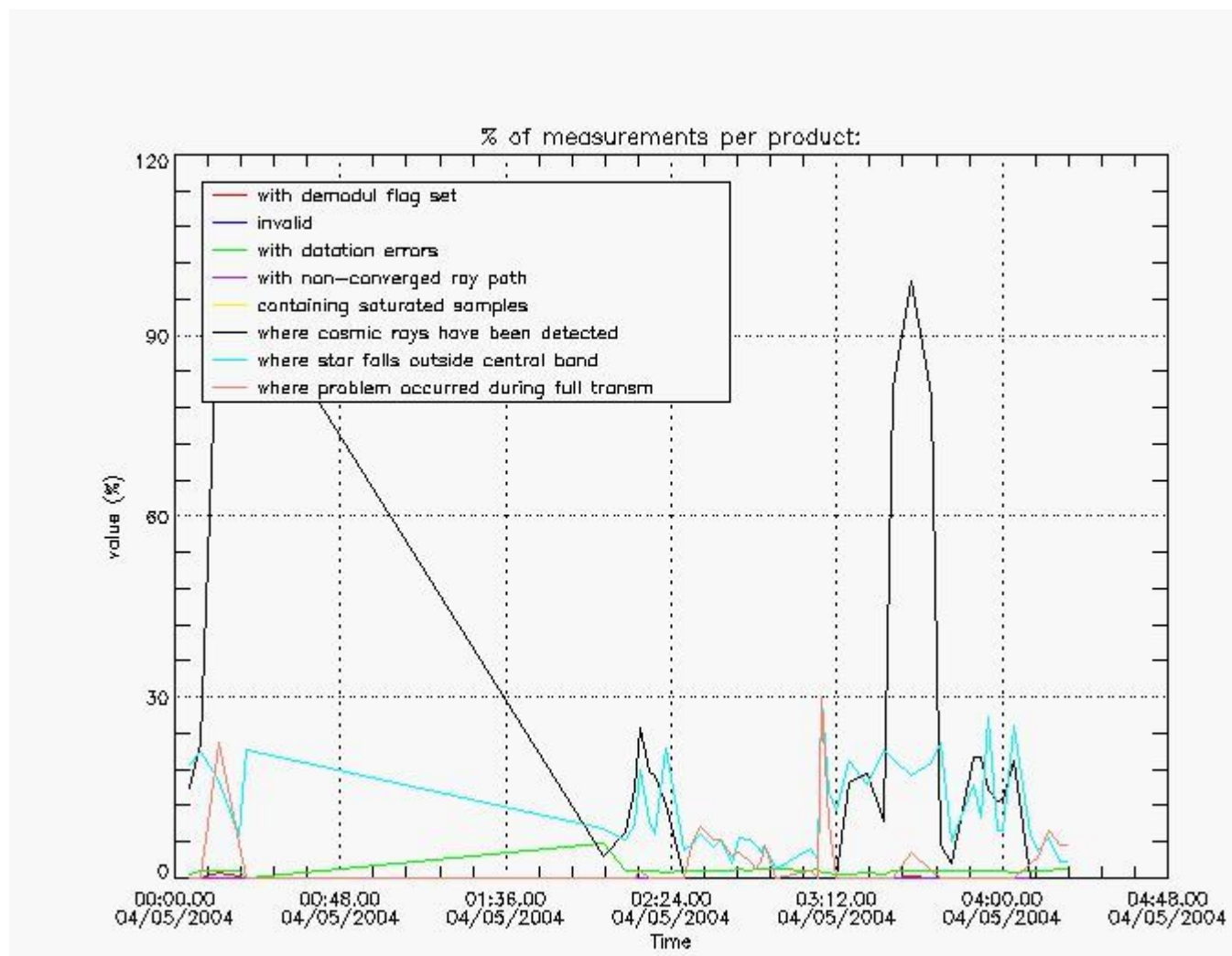
## 5. Demodulation flag and quality information monitoring

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:

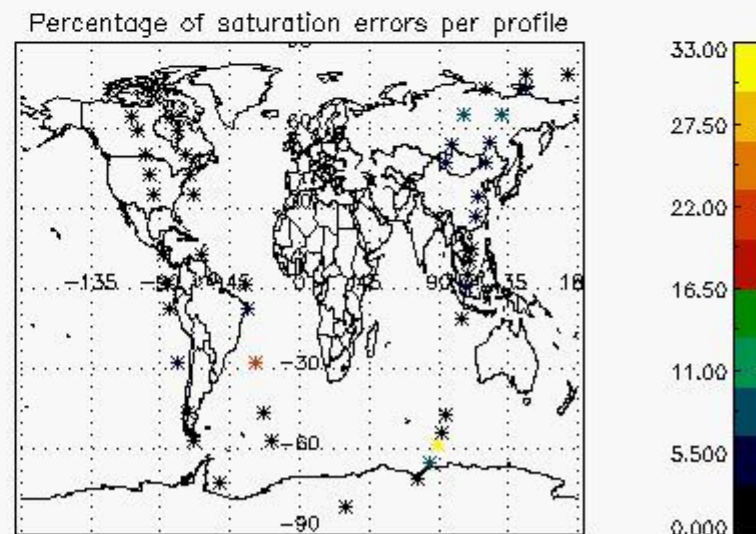
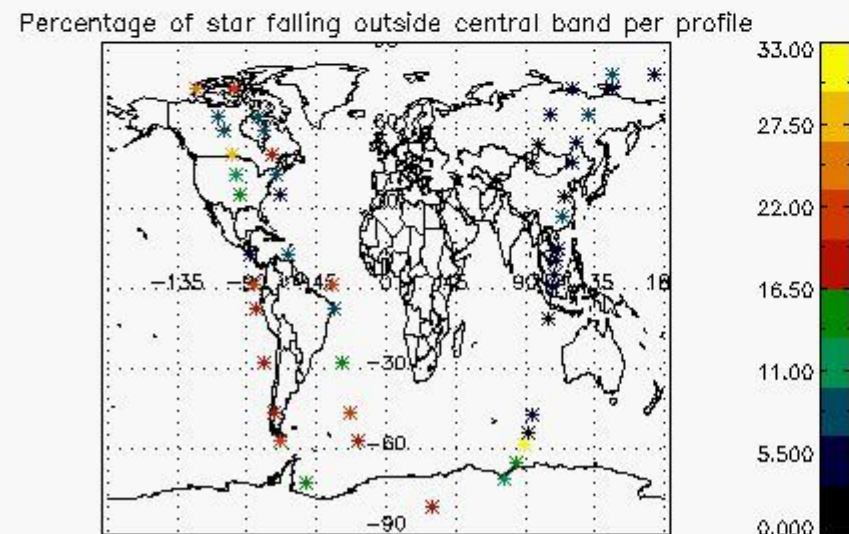
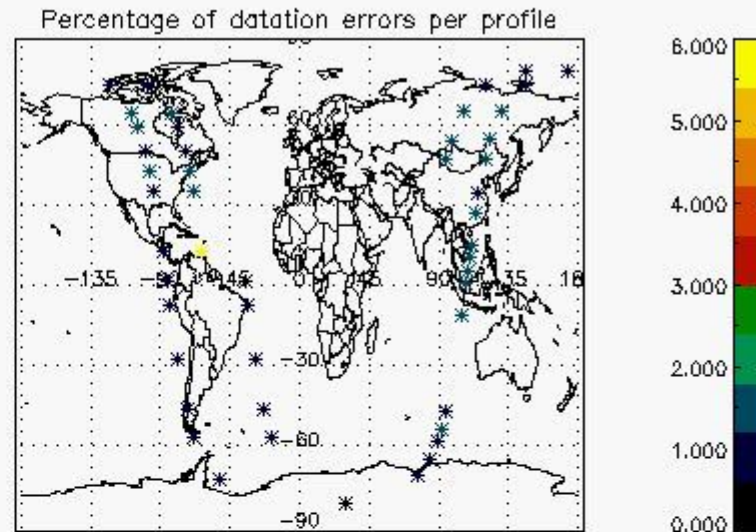
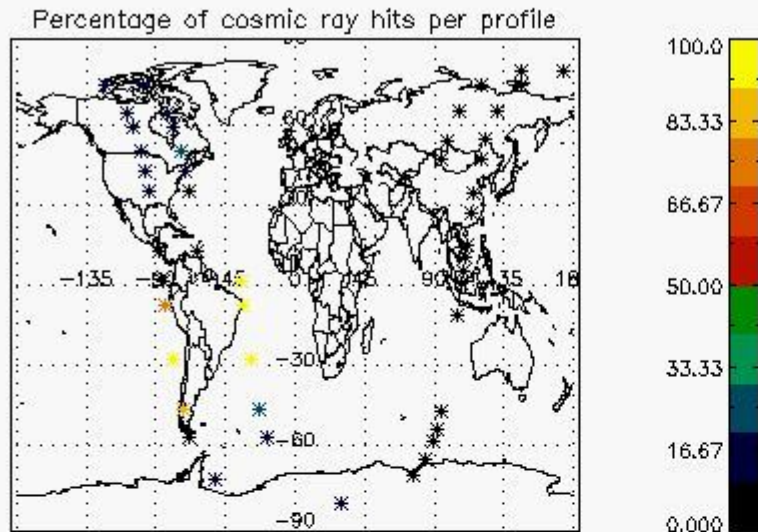
At least one measurement with demodulation flag set:	20.8333 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





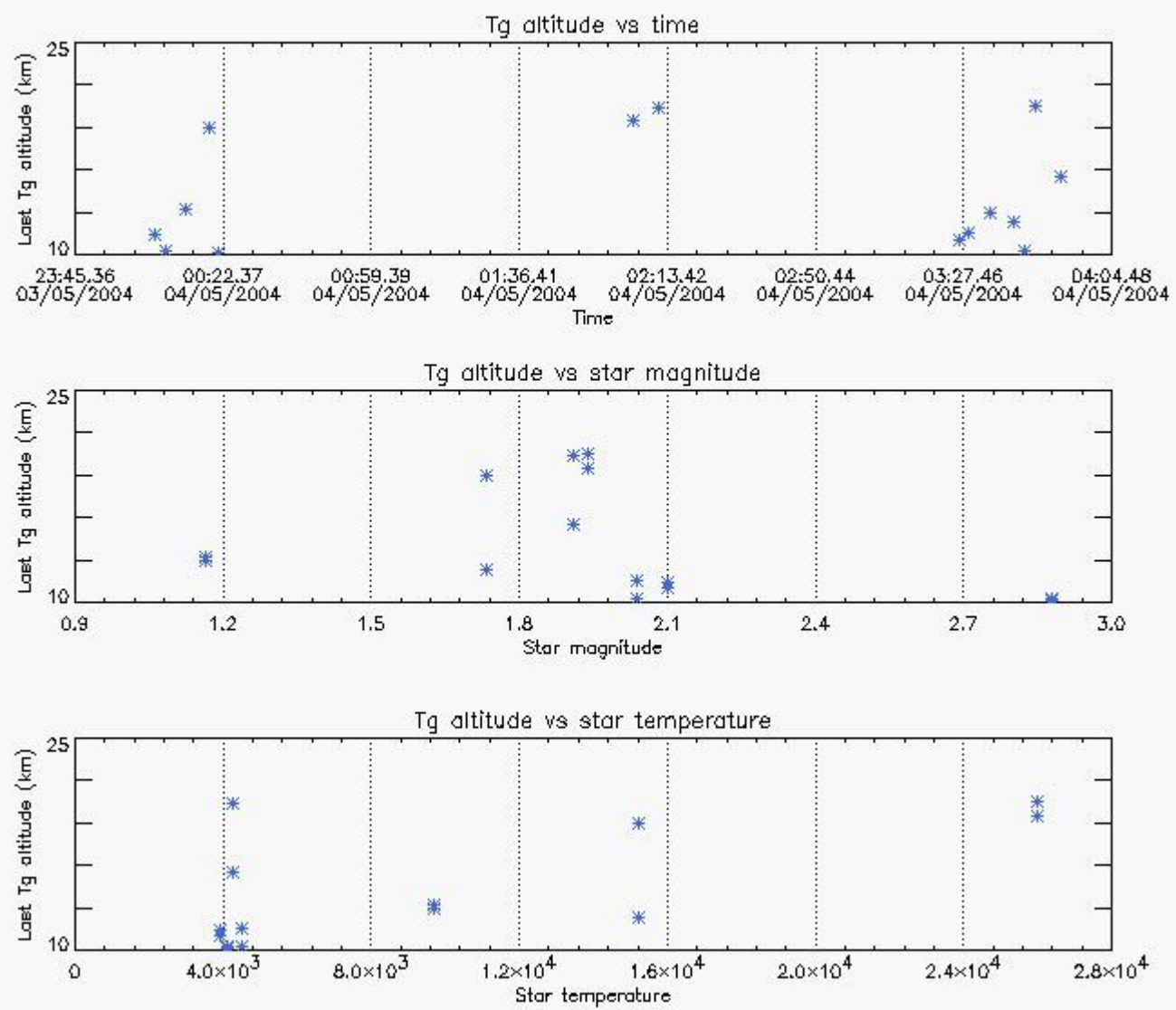
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.142	20.012	14.125
St. deviation:	4.0144	5.0152	3.8781
Maximum:	20.561	29.957	18.639
Minimum:	10.173	6.2415	7.9747
Number of data:	14.000	27.000	7.0000

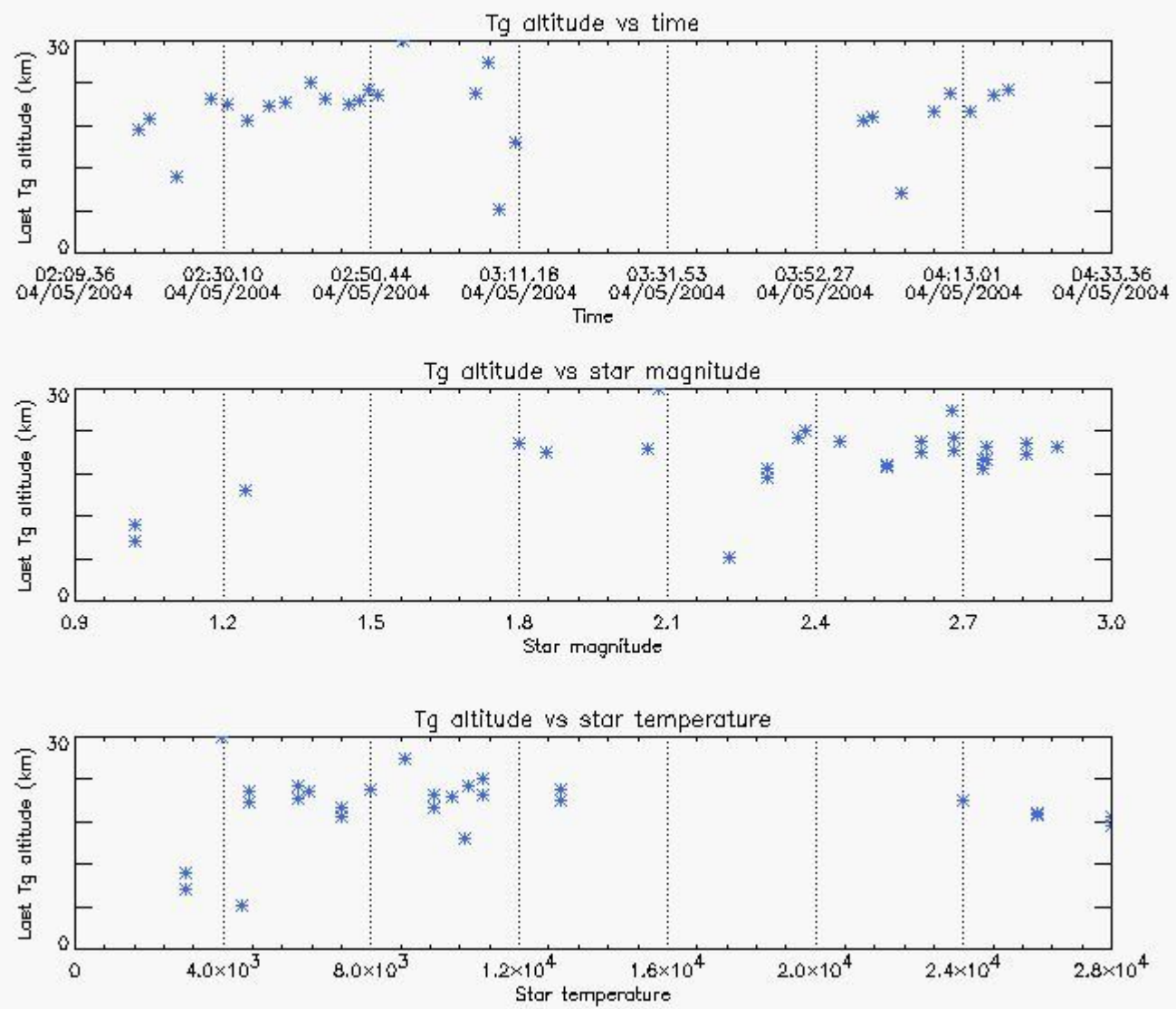
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



*6.3 Plot for BRIGHT limb products*

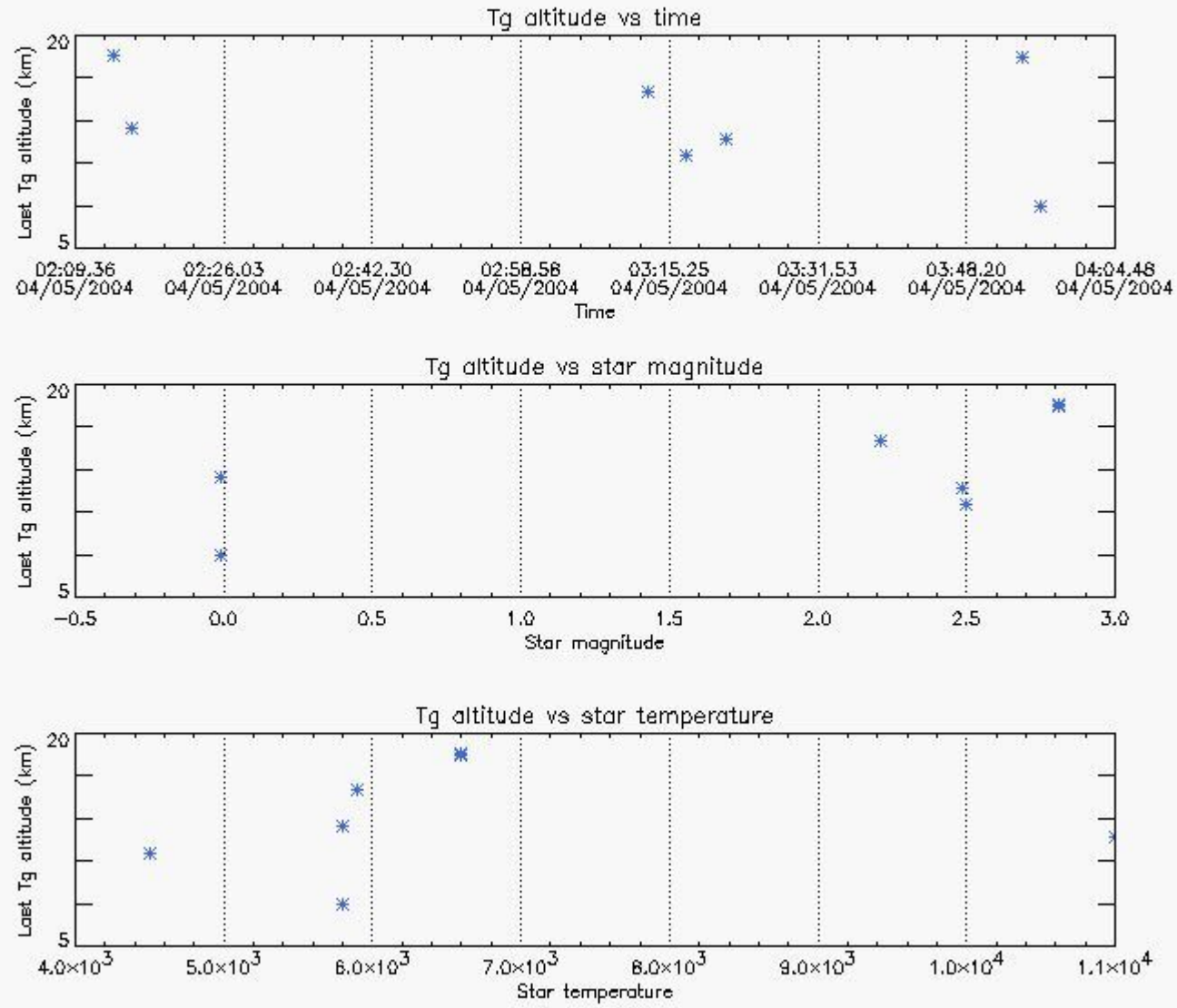
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



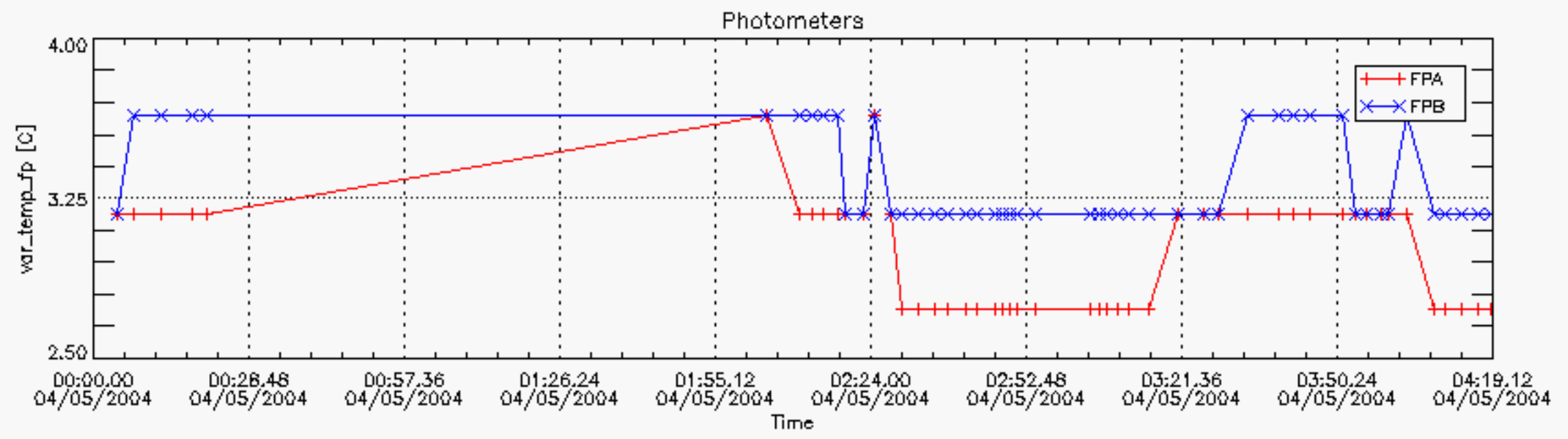
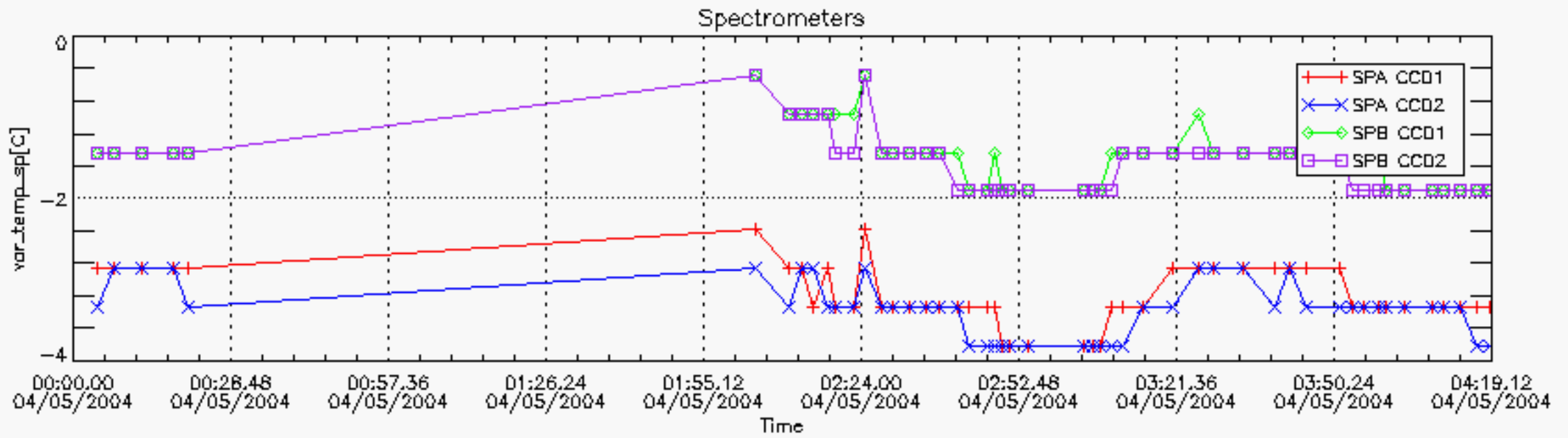
Tangent altitude at which the star is lost

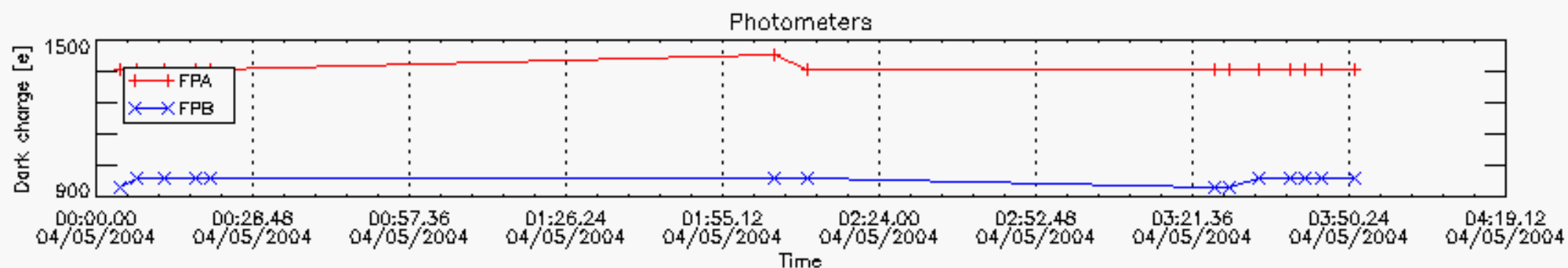
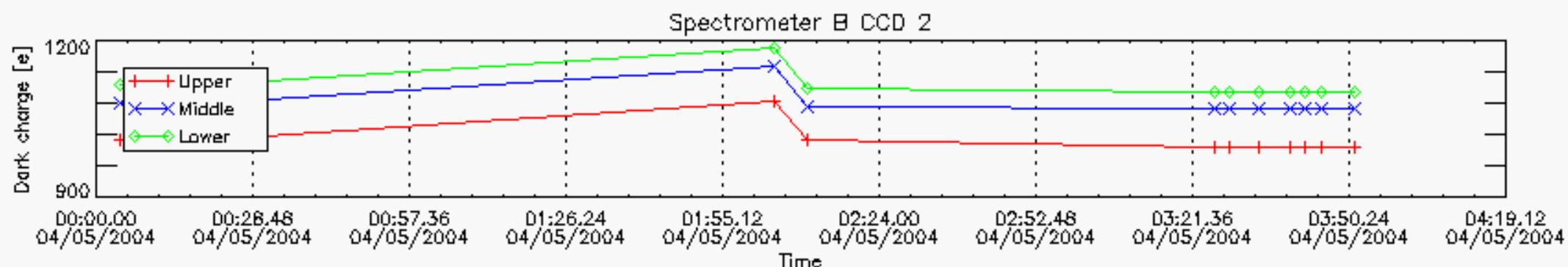
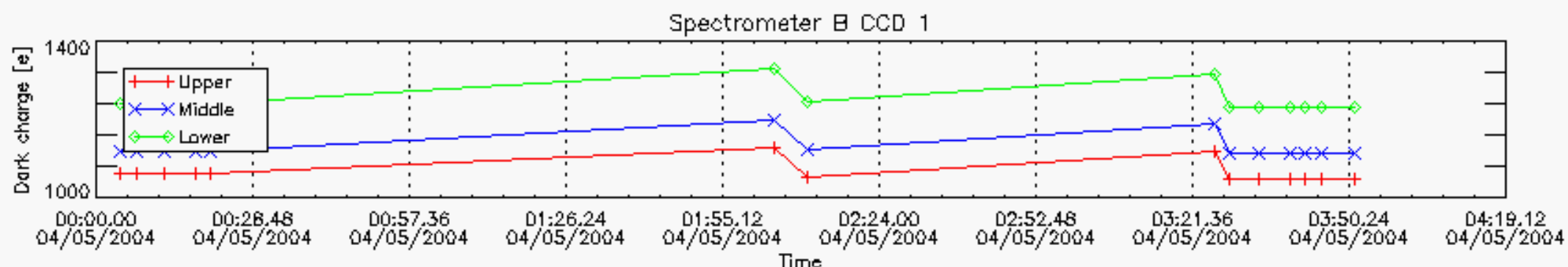
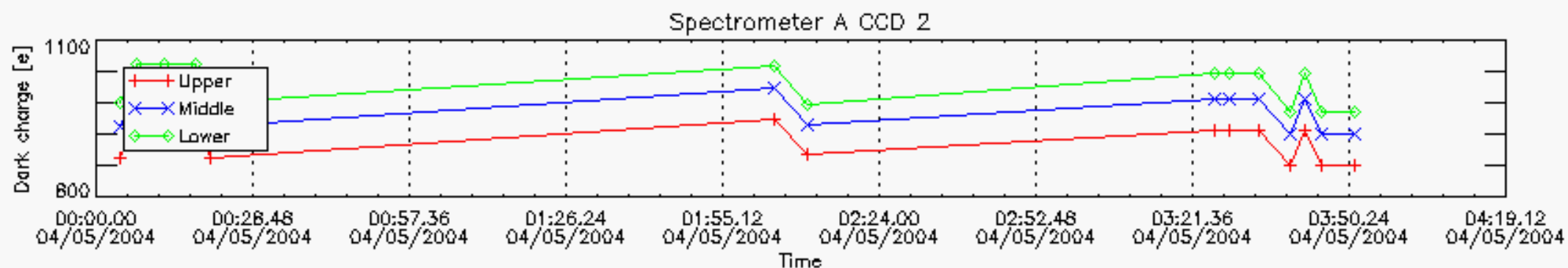
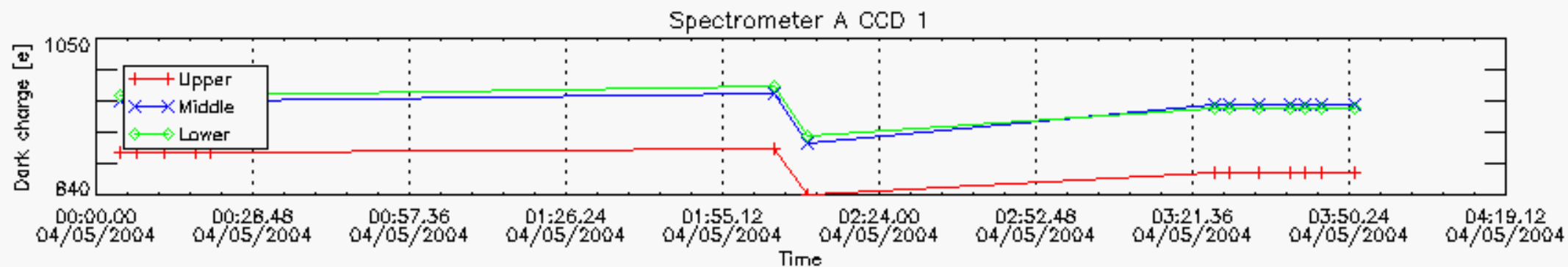


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

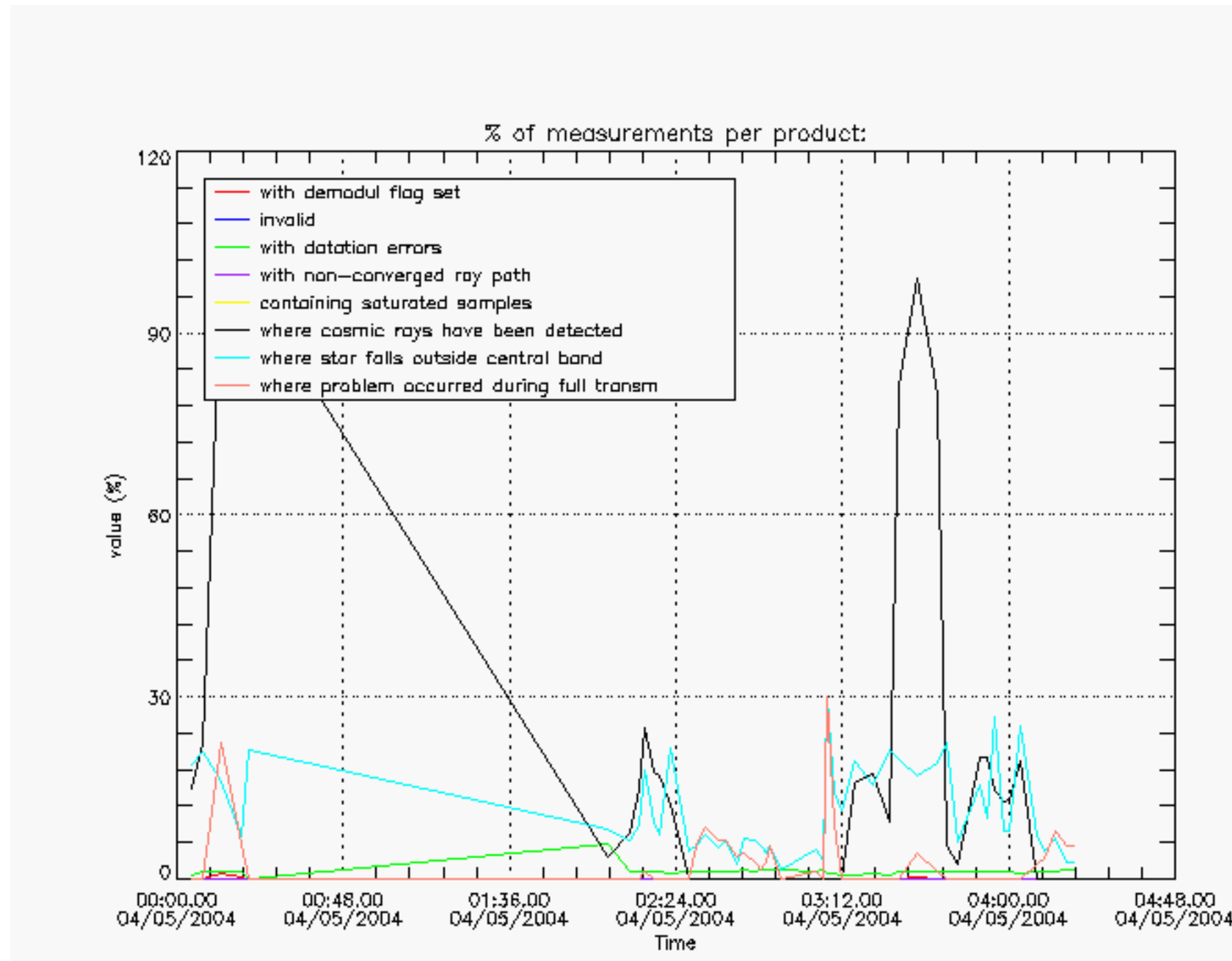
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1460.8	1447.1	1461.5	1447.4
St. deviation:	3.5548	4.6871	8.0253	8.5461
Maximum:	1484.0	1463.0	1551.0	1495.0
Minimum:	1454.0	1427.0	1435.0	1422.0
Number of data:	17300.	17300.	31350.	31350.

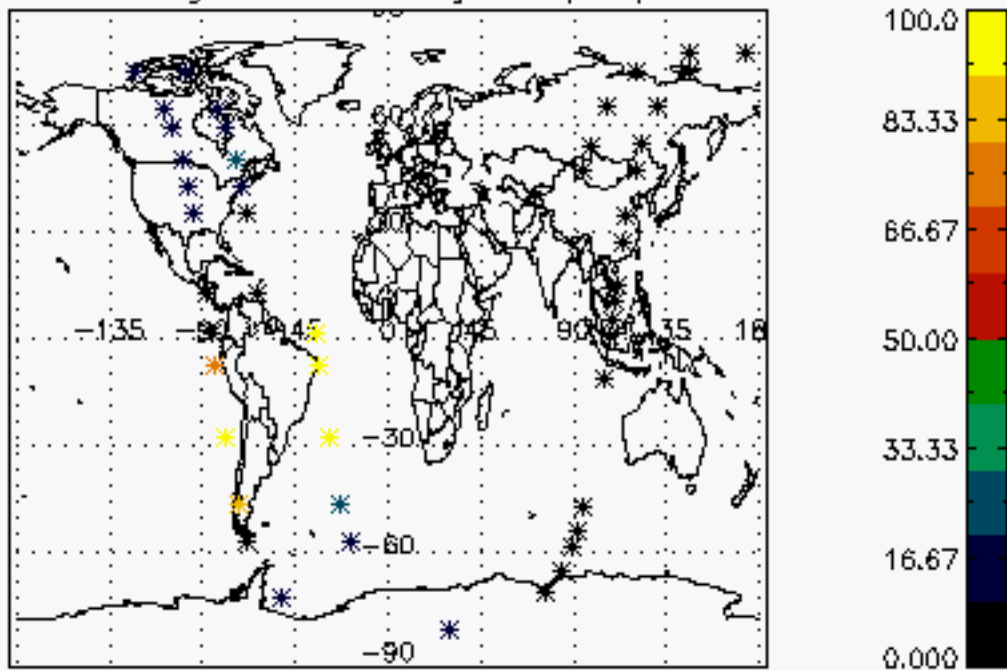




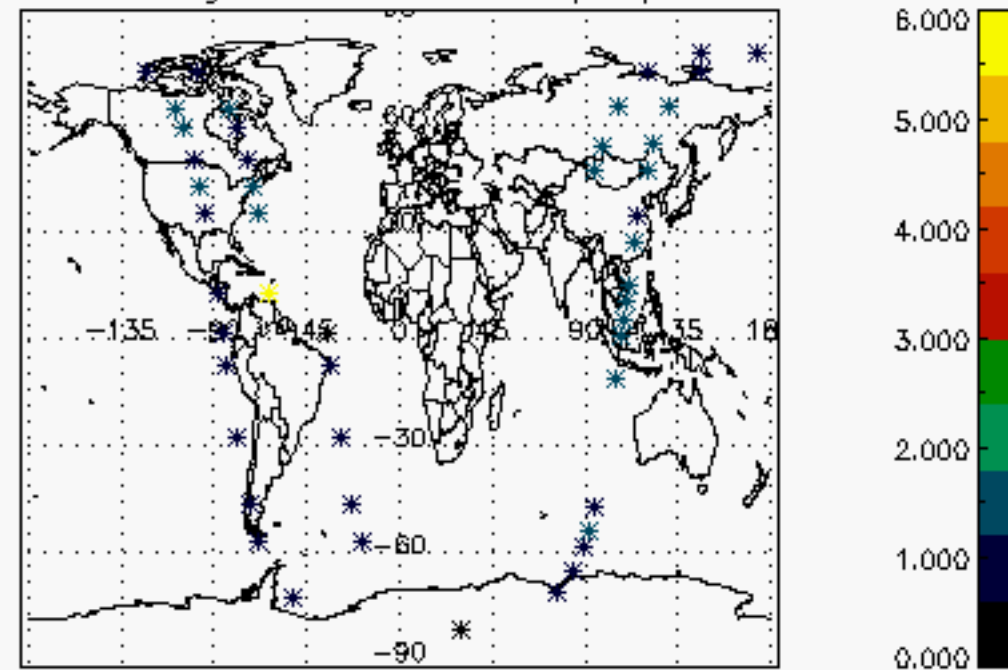




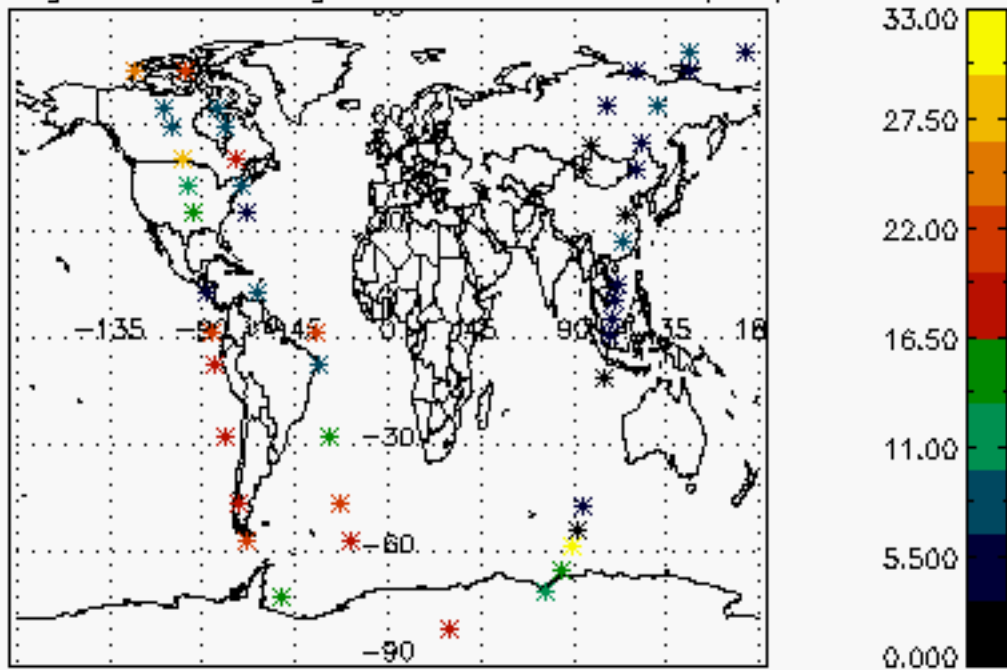
Percentage of cosmic ray hits per profile



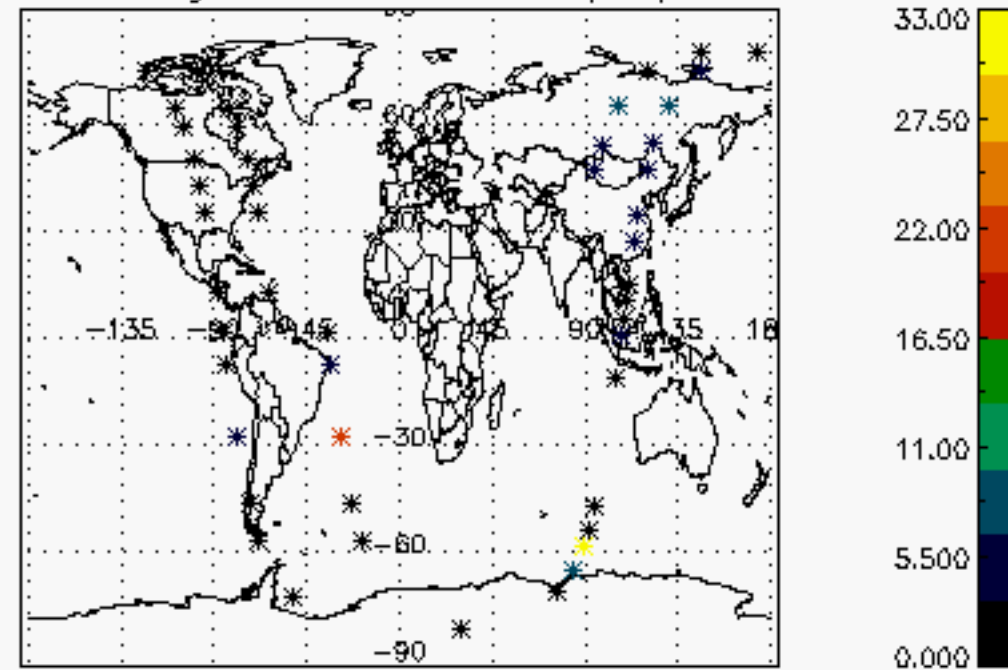
Percentage of datation errors per profile



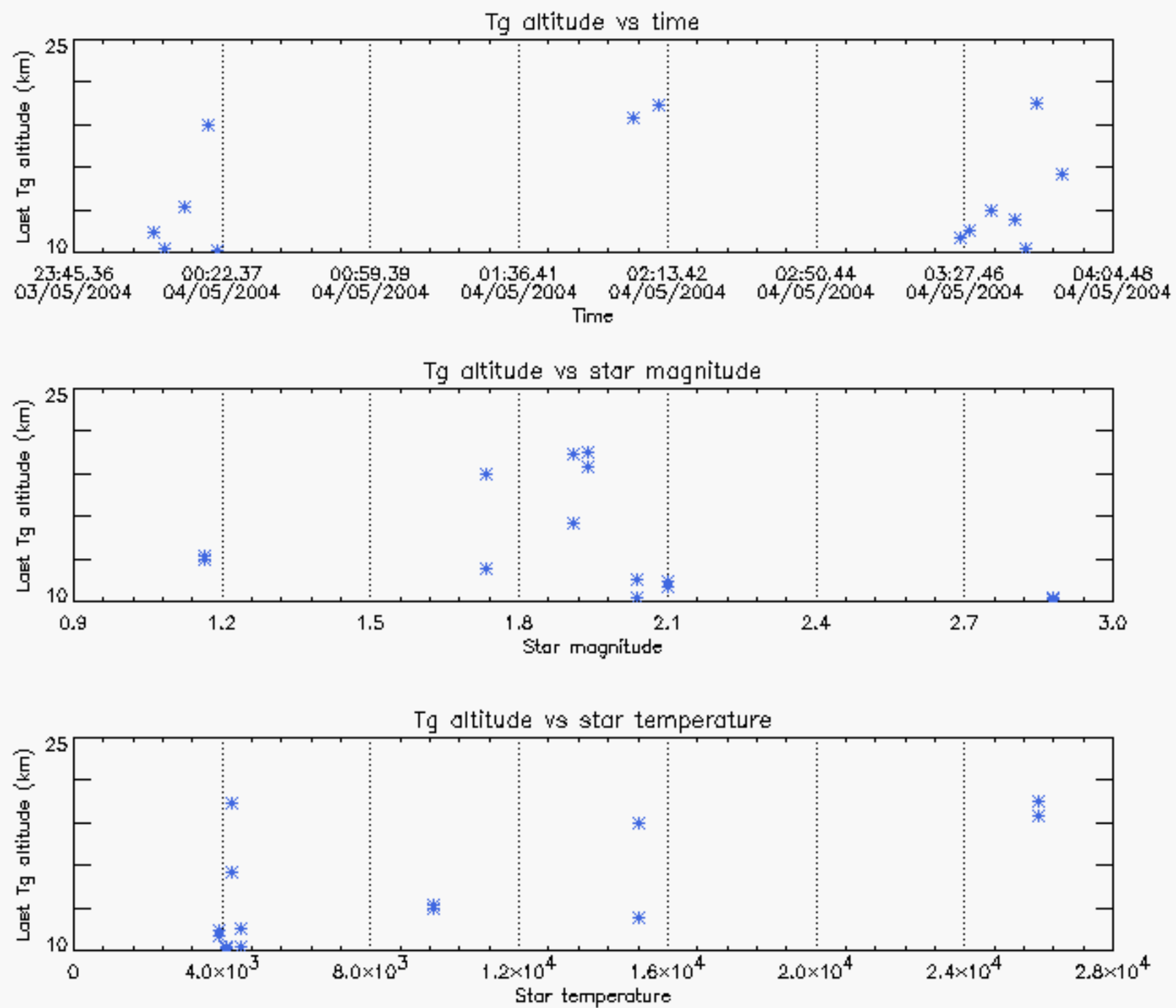
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

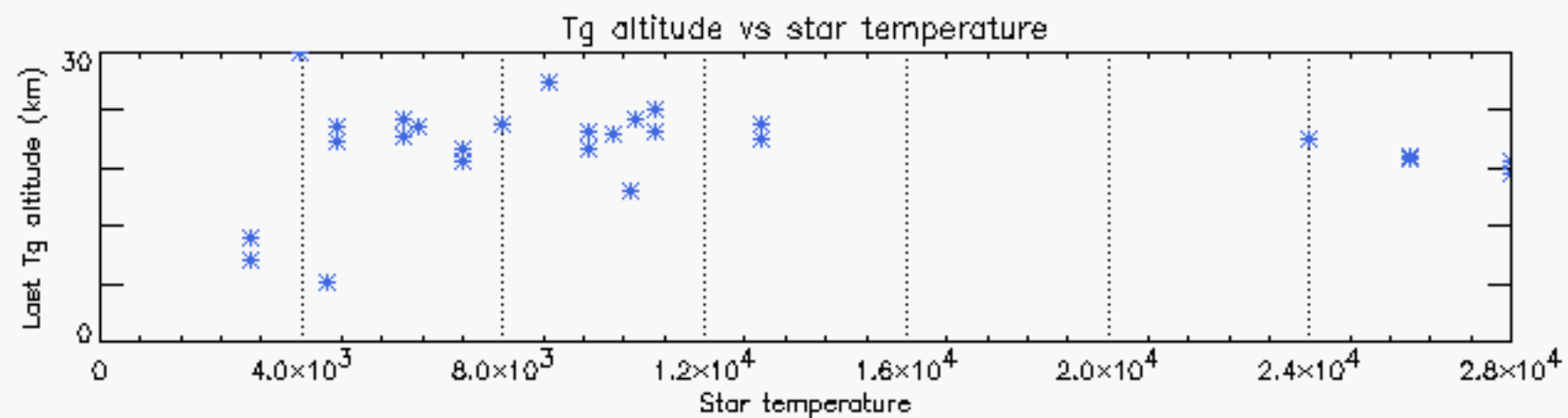
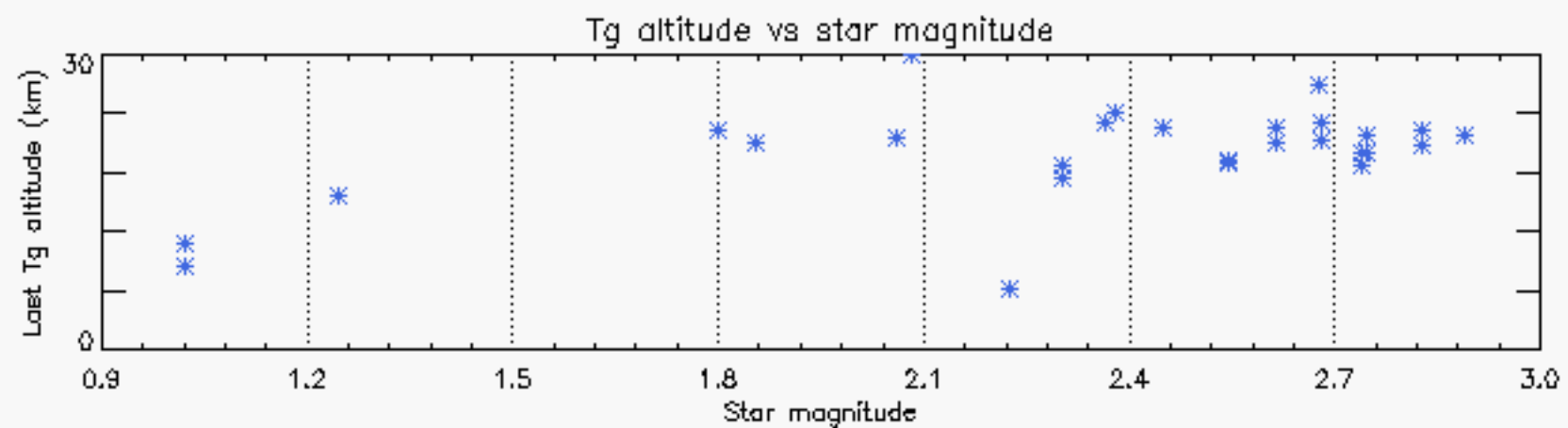
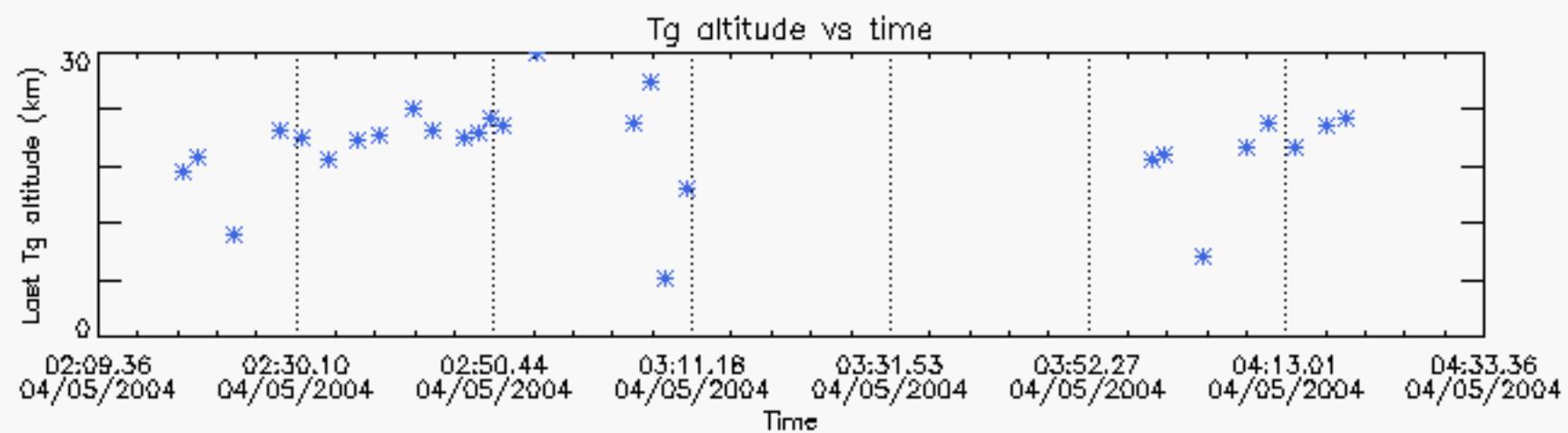


Tangent altitude at which the star is lost

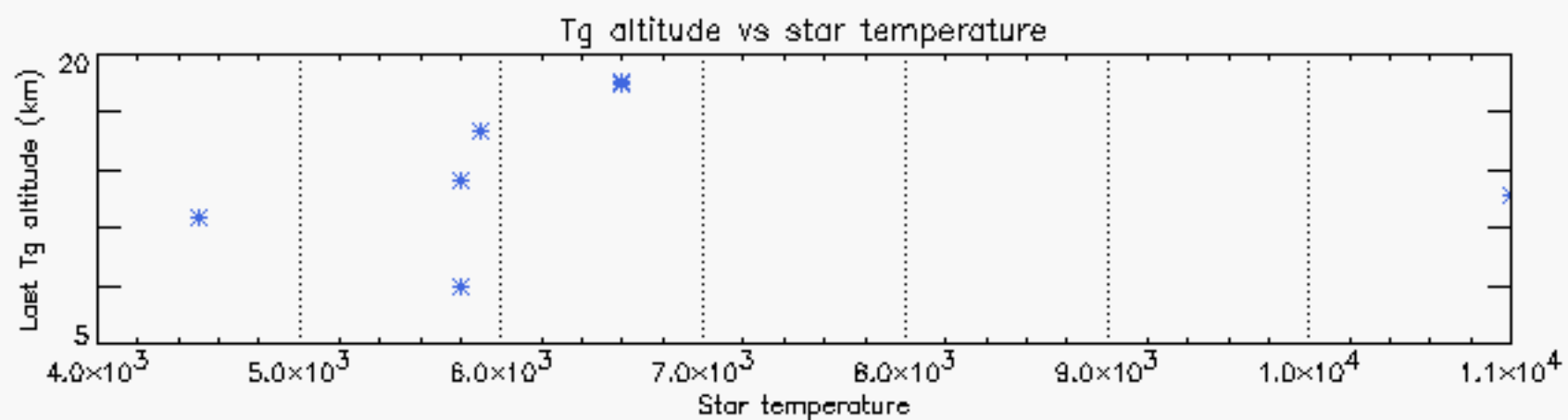
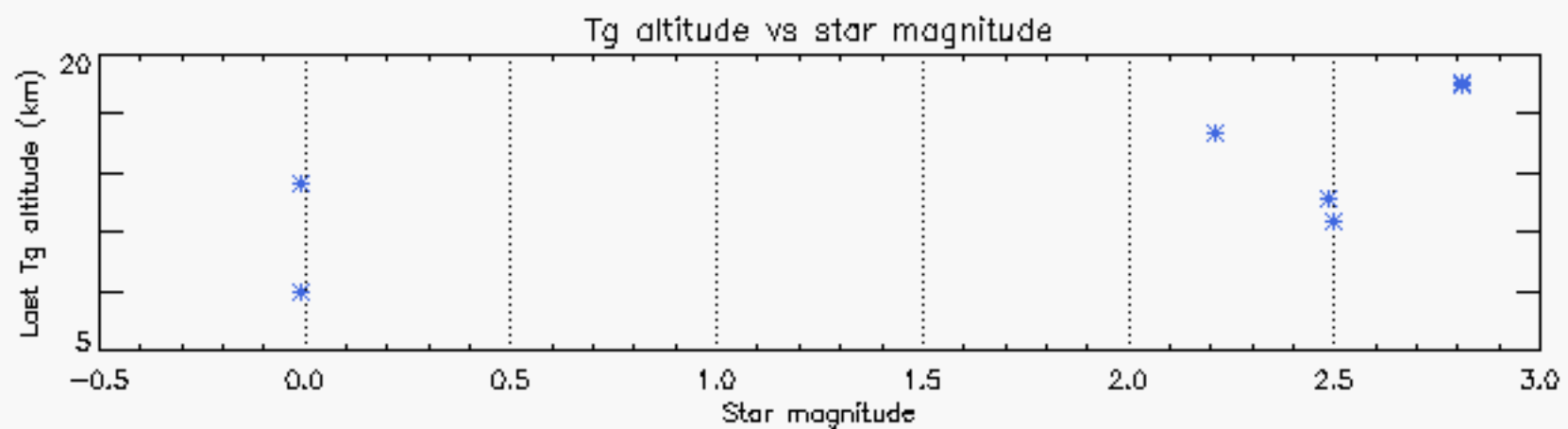
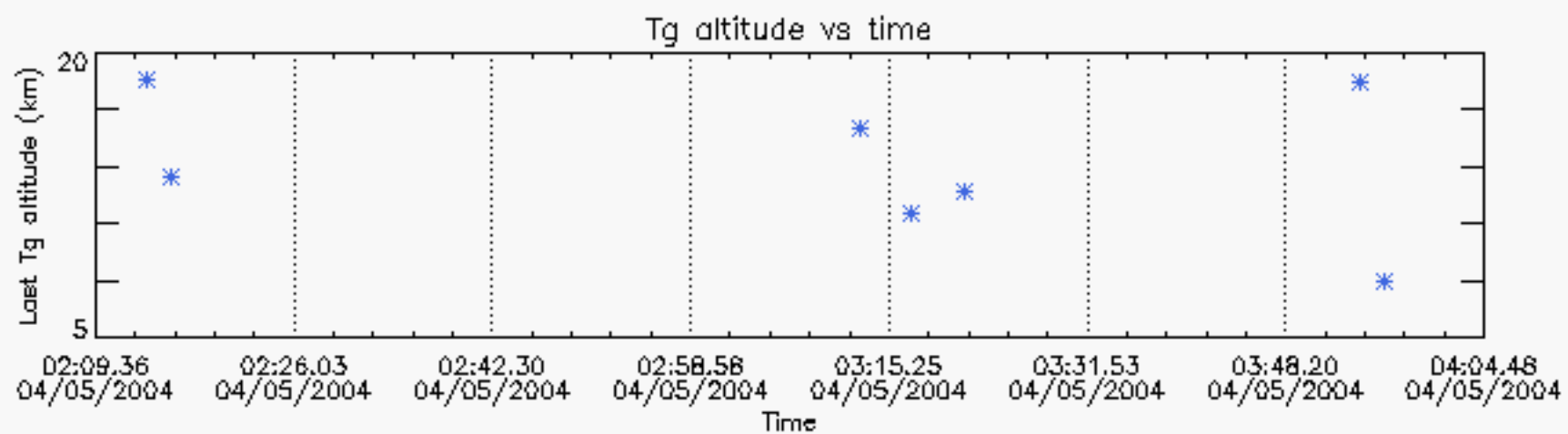




Tangent altitude at which the star is lost



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
10;	-3040.1;	01-MAY-2004	06:06:26;	Bright;	40.0;	36;	50Alp UMa	;	1.80;	6300;occ;	80;	0;	11339
11;	-2819.8;	01-MAY-2004	06:10:06;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;	11339
12;	-2592.8;	01-MAY-2004	06:13:53;	Bright;	37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	11339
13;	-2211.3;	01-MAY-2004	06:20:15;	Bright;	43.0;	89;	5Alp Cep	;	2.45;	8000;occ;	86;	0;	11339
14;	-2113.5;	01-MAY-2004	06:21:53;	Bright;	38.5;	76;	27Gam Cas	;	2.30;	30000;occ;	77;	0;	11339
15;	-2036.9;	01-MAY-2004	06:23:09;	Bright;	38.5;	68;	18Alp Cas	;	2.22;	4500;occ;	77;	0;	11339
16;	-1900.0;	01-MAY-2004	06:25:26;	Bright;	61.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	122;	0;	11339
17;	-1782.6;	01-MAY-2004	06:27:24;	Bright;	77.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	155;	0;	11339
18;	-1563.0;	01-MAY-2004	06:31:03;	Dark	;	92;	53Eps Cyg	;	2.50;	4500;occ;	152;	0;	11339
19;	-1261.8;	01-MAY-2004	06:36:04;	Dark	;	90;	54Alp Peg	;	2.49;	11000;occ;	101;	0;	11339
20;	-998.9;	01-MAY-2004	06:40:27;	Dark	;	61;	8Eps Peg	;	2.10;	3900;occ;	146;	0;	11339
21;	-792.7;	01-MAY-2004	06:43:53;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	90;	0;	11339
22;	-628.3;	01-MAY-2004	06:46:38;	Dark	;	154;	22Bet Aqr	;	2.90;	5700;occ;	140;	0;	11339
23;	-490.7;	01-MAY-2004	06:48:56;	Dark	;	18;	24Alp PsA	;	1.17;	9700;occ;	93;	0;	11339
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
26;	-144.2;	01-MAY-2004	06:54:42;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	92;	0;	11339
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
30;	698.6;	01-MAY-2004	07:08:45;	Dark	;	38;	20Eps Sgr	;	1.84;	11000;occ;	145;	0;	11340
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33;	1106.1;	01-MAY-2004	07:15:32;	Dark	;	64;	Gam Cen	;	2.20;	10600;occ;	83;	0;	11340
34;	1267.9;	01-MAY-2004	07:18:14;	Dark	;	16;	21Alp Sco	;	1.02;	3000;occ;	140;	0;	11340
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36;	1590.3;	01-MAY-2004	07:23:37;	Bright;	46.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	92;	0;	11340
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2;	-4445.5;	02-MAY-2004	00:09:36;	Bright;	46.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	93;	0;	11350	
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4;	-4137.9;	02-MAY-2004	00:14:43;	Bright;	37.5;	121;	29Gam Vir	;	2.74;	7200;occ;	75;	0;	11350	
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7;	-3591.2;	02-MAY-2004	00:23:50;	Bright;	46.5;	83;		;	2.38;	11000;occ;	93;	0;	11350	
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9;	-3303.3;	02-MAY-2004	00:28:38;	Bright;	53.0;	174;	52Psi UMa	;	3.00;	4400;occ;	106;	0;	11350	
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13;	-2822.5;	02-MAY-2004	00:36:39;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;	11350	
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16;	-2116.1;	02-MAY-2004	00:48:25;	Bright;	46.0;	110;	37Del Cas	;	2.68;	8900;occ;	92;	0;	11350	
17;	-2035.2;	02-MAY-2004	00:49:46;	Bright;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	11350	
18;	-1904.4;	02-MAY-2004	00:51:57;	Bright;	62.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	125;	0;	11350	
19;	-1786.9;	02-MAY-2004	00:53:54;	Bright;	78.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	156;	0;	11350	
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21;	-1256.9;	02-MAY-2004	01:02:44;	Dark	;	47.0;	90;	54Alp Peg	;	2.49;	11000;occ;	94;	0;	11350
22;	-988.7;	02-MAY-2004	01:07:13;	Dark	;	68.5;	61;	8Eps Peg	;	2.10;	3900;occ;	137;	0;	11350
23;	-791.9;	02-MAY-2004	01:10:29;	Dark	;	43.5;	52;	16Bet Cet	;	2.04;	4500;occ;	87;	0;	11350
24;	-612.5;	02-MAY-2004	01:13:29;	Dark	;	66.0;	154;	22Bet Aqr	;	2.90;	5700;occ;	132;	0;	11350
25;	-485.1;	02-MAY-2004	01:15:36;	Dark	;	44.0;	18;	24Alp PsA	;	1.17;	9700;occ;	88;	0;	11350
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27;	-138.3;	02-MAY-2004	01:21:23;	Dark	;	45.0;	31;	Alp Gru	;	1.73;	15200;occ;	90;	0;	11350
28;	191.8;	02-MAY-2004	01:26:53;	Dark	;	43.0;	45;	Alp Pav	;	1.94;	26000;occ;	86;	0;	11351
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 9;-3302.8; 02-MAY-2004 02:09:14; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;11351
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18;-1787.3; 02-MAY-2004 04:15:06; Bright; 82.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 164; 0;11352
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21; -986.8; 02-MAY-2004 04:28:26; Dark ; 71.5; 61; 8Eps Peg ; 2.10; 3900;occ; 143; 0;11352
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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
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9;	-3668.5;	24-MAY-2004	17:17:14;	Bright	;	37.5;	83;			;	2.38;	11000;	occ;	75;	0;	11675
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12;	-3183.1;	24-MAY-2004	17:25:19;	Bright	;	38.5;	55;	79Zet	UMa	;	2.06;	10200;	occ;	77;	0;	11675
13;	-3103.3;	24-MAY-2004	17:26:39;	Bright	;	39.0;	87;	64Gam	UMa	;	2.43;	11000;	occ;	78;	0;	11675
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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
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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
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27;	-5.0;	24-MAY-2004	18:18:17;	Dark	;	48.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	96;	0;	11675
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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
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
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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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28;	-127.5;	24-MAY-2004	19:56:51;	Dark	;	43.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	87;	0;	11676
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