

# GOMOS Daily Report 02-OCT-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	04OCT2004 05:01:21
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (02OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (03OCT2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

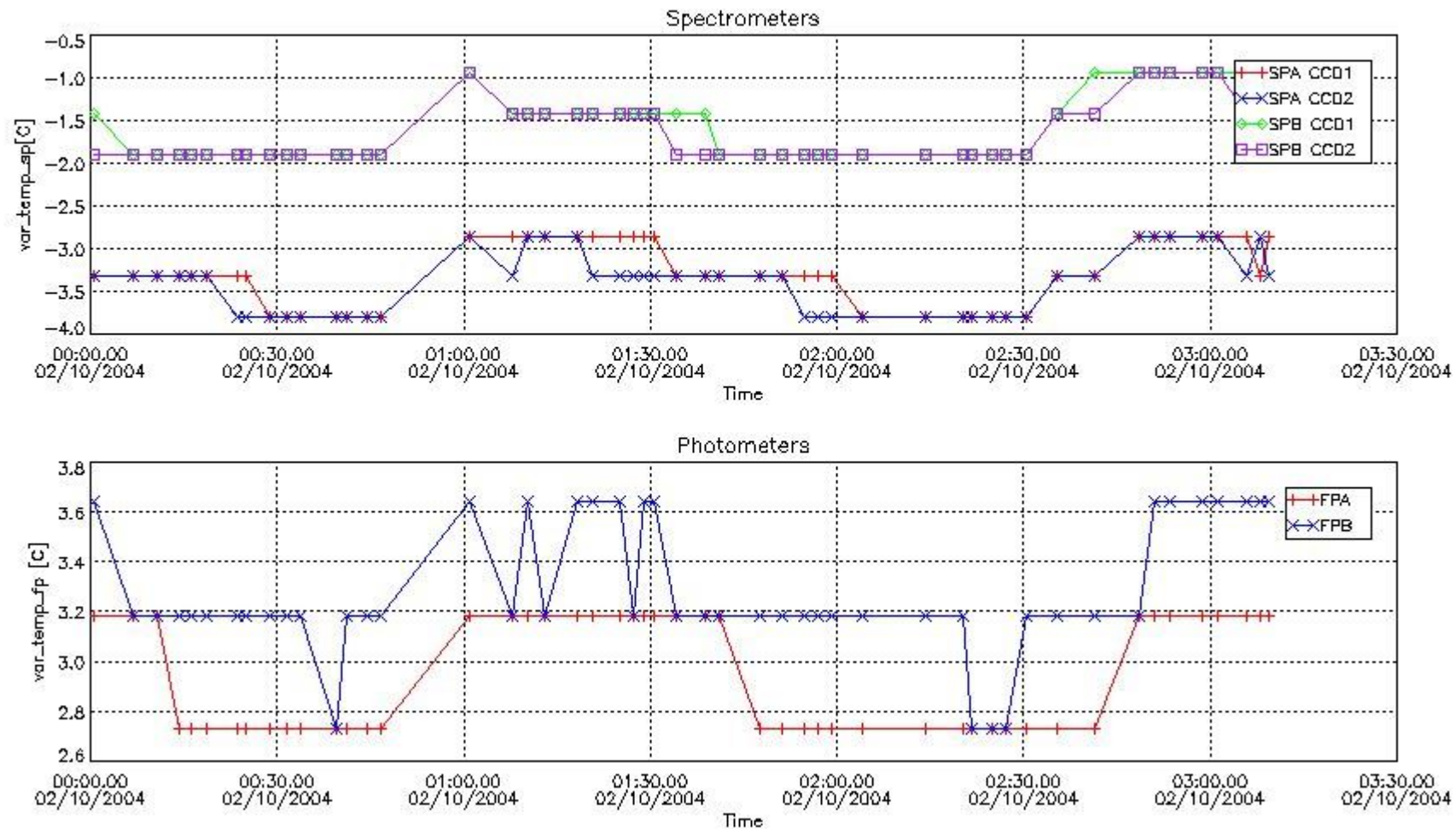
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20041002_000028_000000512030_00460_13540_0012.N1	02-OCT-2004 00:00:28	Bright	51.000	52	16Bet Cet	2.0370	4500.0	102	13540	No
GOM_TRA_1PNPDE20041002_000658_000000412030_00460_13540_0013.N1	02-OCT-2004 00:06:58	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	13540	No
GOM_TRA_1PNPDE20041002_001038_000000392030_00460_13540_0014.N1	02-OCT-2004 00:10:38	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	13540	No
GOM_TRA_1PNPDE20041002_001416_000000382030_00460_13540_0015.N1	02-OCT-2004 00:14:16	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	13540	No
GOM_TRA_1PNPDE20041002_001617_000000622030_00460_13540_0016.N1	02-OCT-2004 00:16:17	Bright	61.500	105	6Bet Ari	2.6450	8900.0	123	13540	No
GOM_TRA_1PNPDE20041002_001837_000000482030_00460_13540_0017.N1	02-OCT-2004 00:18:37	Bright	48.000	53	43Bet And	2.0480	3300.0	96	13540	No
GOM_TRA_1PNPDE20041002_002336_000000392030_00460_13540_0018.N1	02-OCT-2004 00:23:36	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	13540	No
GOM_TRA_1PNPDE20041002_002454_000000412030_00460_13540_0019.N1	02-OCT-2004 00:24:54	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	13540	No
GOM_TRA_1PNPDE20041002_002843_000000522030_00460_13540_0020.N1	02-OCT-2004 00:28:43	Bright	52.000	160	23Gam Per	2.9300	4700.0	104	13540	No
GOM_TRA_1PNPDE20041002_003138_000000342030_00460_13540_0021.N1	02-OCT-2004 00:31:38	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	13540	No
GOM_TRA_1PNPDE20041002_003346_000000402030_00460_13540_0022.N1	02-OCT-2004 00:33:46	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	13540	No
GOM_TRA_1PNPDE20041002_003937_000000382030_00460_13540_0023.N1	02-OCT-2004 00:39:37	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	13540	No
GOM_TRA_1PNPDE20041002_004107_000000522030_00460_13540_0024.N1	02-OCT-2004 00:41:07	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	13540	No
GOM_TRA_1PNPDE20041002_004421_000000402030_00460_13540_0025.N1	02-OCT-2004 00:44:21	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	13540	No
GOM_TRA_1PNPDE20041002_004637_000000972030_00460_13540_0026.N1	02-OCT-2004 00:46:37	Bright	96.500	107	37The Aur	2.6490	11000.	193	13540	No
GOM_TRA_1PNPDE20041002_010053_000000802030_00460_13540_0000.N1	02-OCT-2004 01:00:53	Twilight	79.500	8	10Alp CMi	0.40000	6500.0	159	13540	No
GOM_TRA_1PNPDE20041002_010752_000000532030_00460_13540_0001.N1	02-OCT-2004 01:07:52	Dark	53.000	132	15Rho Pup	2.8030	6900.0	106	13540	No
GOM_TRA_1PNPDE20041002_011018_000000492030_00460_13540_0002.N1	02-OCT-2004 01:10:18	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	13540	No
GOM_TRA_1PNPDE20041002_011257_000000422030_00460_13540_0003.N1	02-OCT-2004 01:12:57	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	13540	No
GOM_TRA_1PNPDE20041002_011809_000000572030_00461_13541_0004.N1	02-OCT-2004 01:18:09	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	13541	No
GOM_TRA_1PNPDE20041002_012039_000000612030_00461_13541_0005.N1	02-OCT-2004 01:20:39	Dark	61.000	108	Alp Col	2.6520	15200.	122	13541	No
GOM_TRA_1PNPDE20041002_012512_000000392030_00461_13541_0006.N1	02-OCT-2004 01:25:12	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13541	No
GOM_TRA_1PNPDE20041002_012724_000000402030_00461_13541_0007.N1	02-OCT-2004 01:27:24	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	13541	No
GOM_TRA_1PNPDE20041002_012849_000000542030_00461_13541_0008.N1	02-OCT-2004 01:28:49	Dark	54.000	9	Alp Eri	0.45300	24000.	108	13541	No
GOM_TRA_1PNPDE20041002_013034_000000512030_00461_13541_0009.N1	02-OCT-2004 01:30:34	Dark	51.000	157	The1Eri	2.9060	9300.0	102	13541	No
GOM_TRA_1PNPDE20041002_013411_000000512030_00461_13541_0010.N1	02-OCT-2004 01:34:11	Twilight	51.000	84	Alp Phe	2.3970	4500.0	102	13541	No
GOM_TRA_1PNPDE20041002_013848_000000442030_00461_13541_0011.N1	02-OCT-2004 01:38:48	Bright	44.000	18	24Alp PsA	1.1660	9700.0	88	13541	No
GOM_TRA_1PNPDE20041002_014102_000000532030_00461_13541_0012.N1	02-OCT-2004 01:41:02	Bright	53.000	52	16Bet Cet	2.0370	4500.0	106	13541	No
GOM_TRA_1PNPDE20041002_014734_000000402030_00461_13541_0013.N1	02-OCT-2004 01:47:34	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	13541	No
GOM_TRA_1PNPDE20041002_015114_000000392030_00461_13541_0014.N1	02-OCT-2004 01:51:14	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	13541	No
GOM_TRA_1PNPDE20041002_015451_000000402030_00461_13541_0015.N1	02-OCT-2004 01:54:51	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	13541	No
GOM_TRA_1PNPDE20041002_015652_000000622030_00461_13541_0016.N1	02-OCT-2004 01:56:52	Bright	62.000	105	6Bet Ari	2.6450	8900.0	124	13541	No
GOM_TRA_1PNPDE20041002_015913_000000492030_00461_13541_0017.N1	02-OCT-2004 01:59:13	Bright	49.000	53	43Bet And	2.0480	3300.0	98	13541	No
GOM_TRA_1PNPDE20041002_020412_000000402030_00461_13541_0018.N1	02-OCT-2004 02:04:12	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	13541	No
GOM_TRA_1PNPDE20041002_021422_000000412030_00461_13541_0000.N1	02-OCT-2004 02:14:22	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	13541	No
GOM_TRA_1PNPDE20041002_022012_000000402030_00461_13541_0001.N1	02-OCT-2004 02:20:12	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13541	No
GOM_TRA_1PNPDE20041002_022142_000000382030_00461_13541_0002.N1	02-OCT-2004 02:21:42	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	13541	No
GOM_TRA_1PNPDE20041002_022456_000000512030_00461_13541_0003.N1	02-OCT-2004 02:24:56	Bright	51.000	174	52Psi UMa	3.0040	4400.0	102	13541	No
GOM_TRA_1PNPDE20041002_022713_000000932030_00461_13541_0004.N1	02-OCT-2004 02:27:13	Bright	92.500	107	37The Aur	2.6490	11000.	185	13541	No
GOM_TRA_1PNPDE20041002_023021_000000612030_00461_13541_0005.N1	02-OCT-2004 02:30:21	Bright	61.000	24	66Alp Gem	1.5800	10200.	122	13541	No
GOM_TRA_1PNPDE20041002_023522_000001182030_00461_13541_0006.N1	02-OCT-2004 02:35:22	Twilight	117.50	170	27Eps Gem	3.0000	9700.0	235	13541	No
GOM_TRA_1PNPDE20041002_024130_000000892030_00461_13541_0007.N1	02-OCT-2004 02:41:30	Twilight	89.000	8	10Alp CMi	0.40000	6500.0	178	13541	No
GOM_TRA_1PNPDE20041002_024828_000000522030_00461_13541_0008.N1	02-OCT-2004 02:48:28	Dark	51.500	132	15Rho Pup	2.8030	6900.0	103	13541	No
GOM_TRA_1PNPDE20041002_025054_000000462030_00461_13541_0009.N1	02-OCT-2004 02:50:54	Dark	46.000	65	Lam Vel	2.2040	4400.0	92	13541	No
GOM_TRA_1PNPDE20041002_025333_000000482030_00461_13541_0010.N1	02-OCT-2004 02:53:33	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	13541	No
GOM_TRA_1PNPDE20041002_025846_000000492030_00462_13542_0011.N1	02-OCT-2004 02:58:46	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	13542	No
GOM_TRA_1PNPDE20041002_030114_000000672030_00462_13542_0012.N1	02-OCT-2004 03:01:14	Dark	66.500	108	Alp Col	2.6520	15200.	133	13542	No
GOM_TRA_1PNPDE20041002_030548_000000392030_00462_13542_0013.N1	02-OCT-2004 03:05:48	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13542	No
GOM_TRA_1PNPDE20041002_030800_000000422030_00462_13542_0014.N1	02-OCT-2004 03:08:00	Dark	41.500	143	Alp Hyi	2.8570	7200.0	83	13542	No

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



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

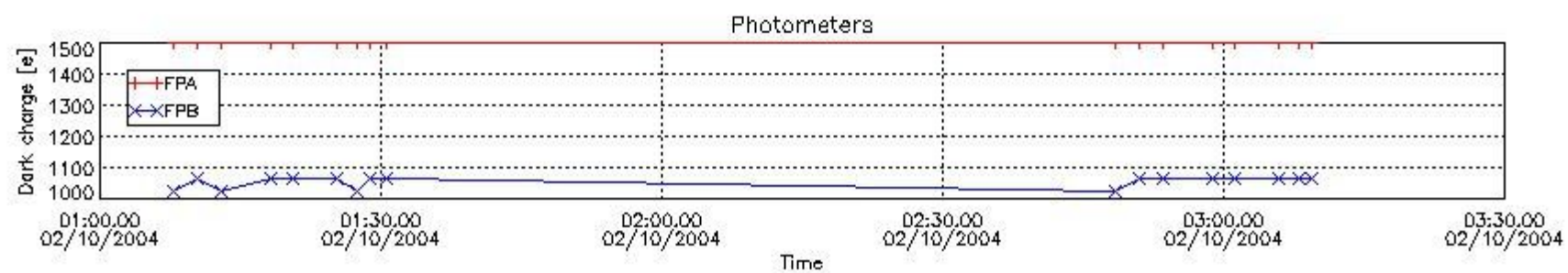
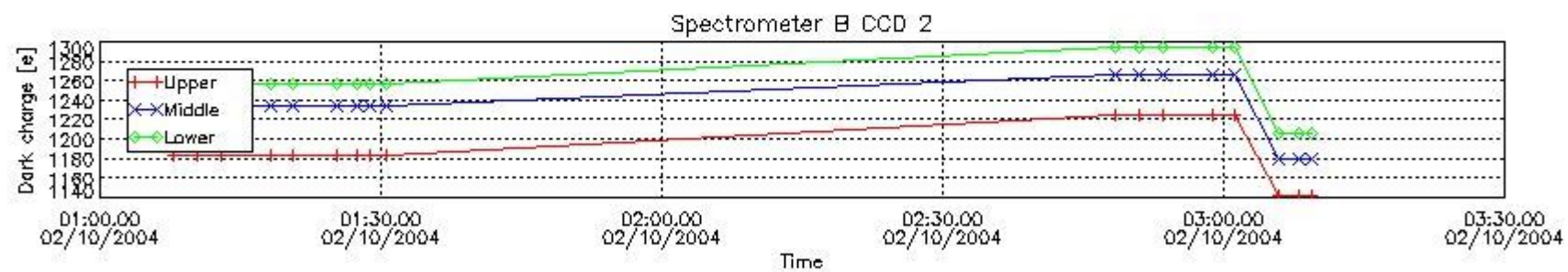
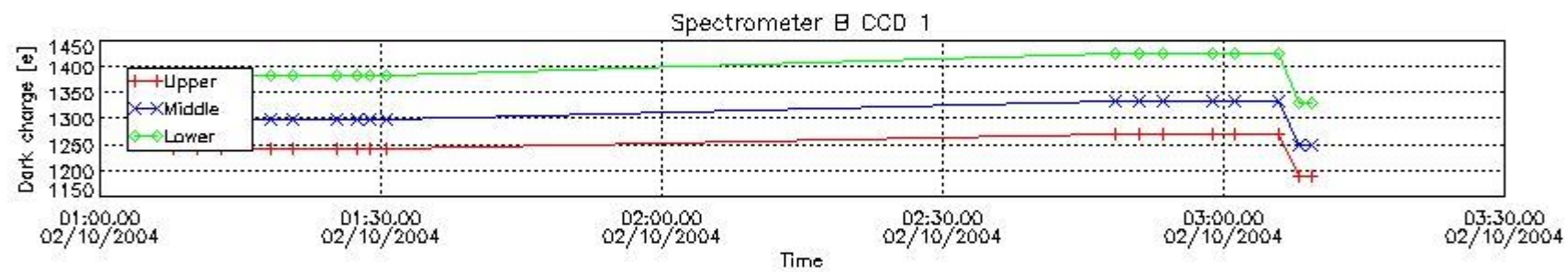
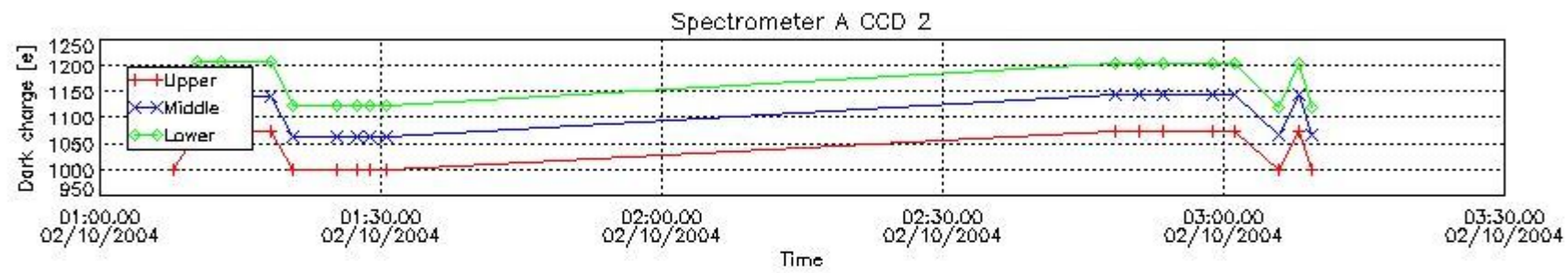
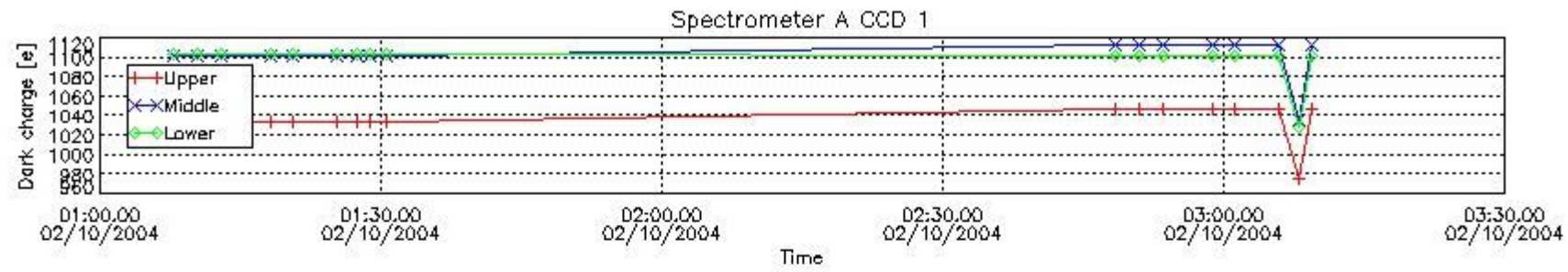
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





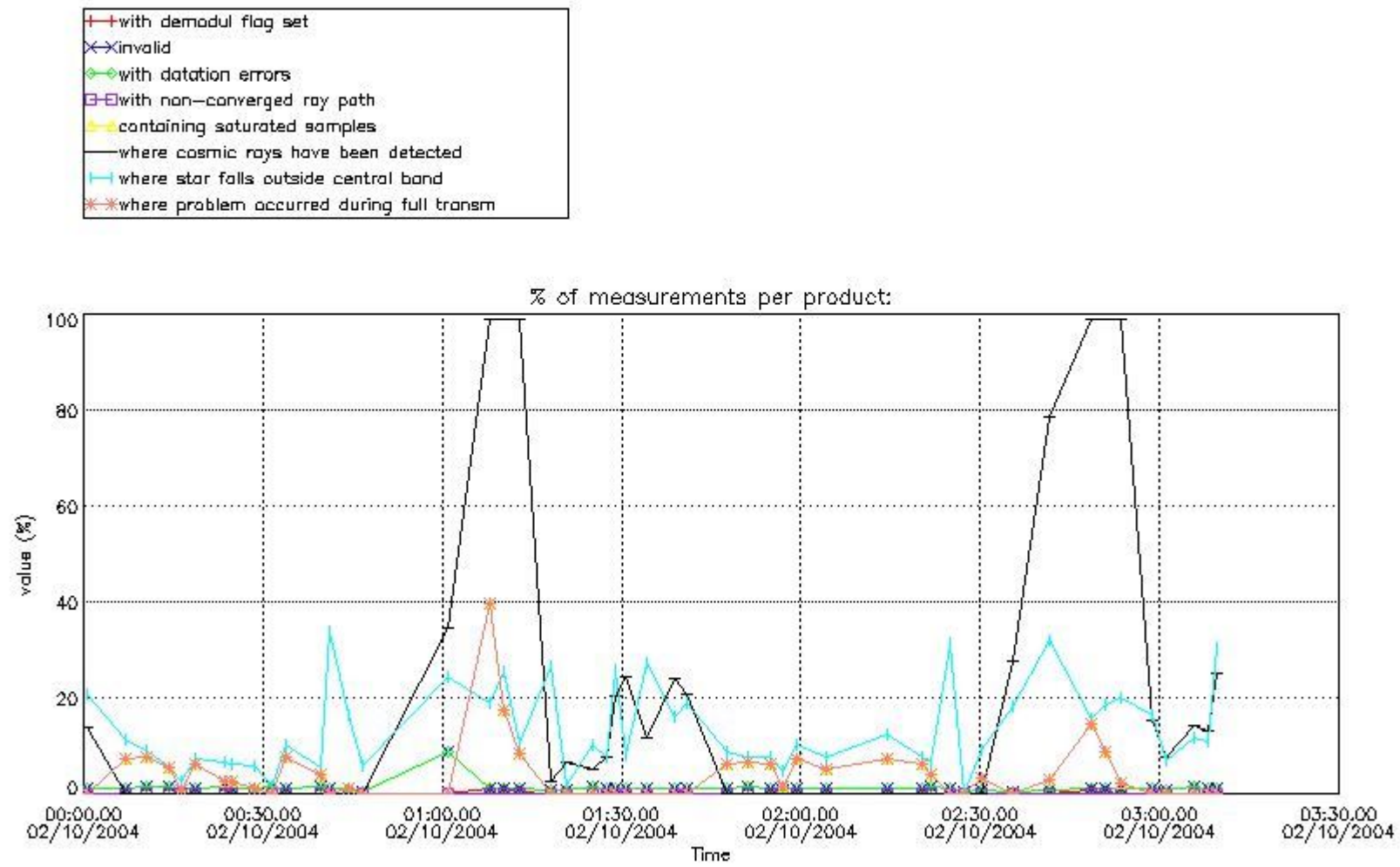
## 5. Demodulation flag and quality information monitoring

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:

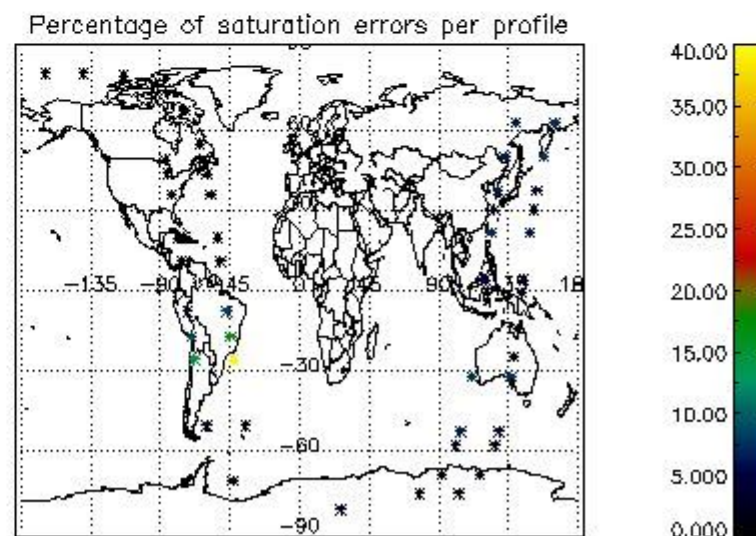
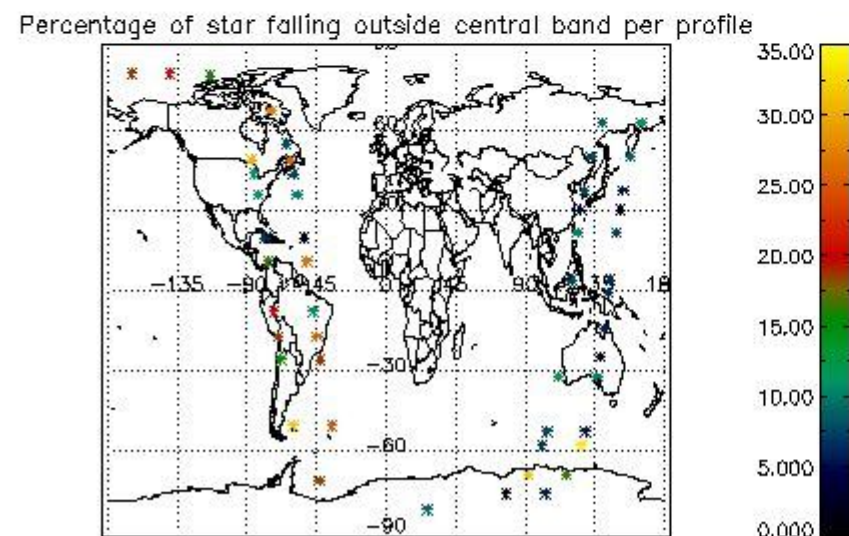
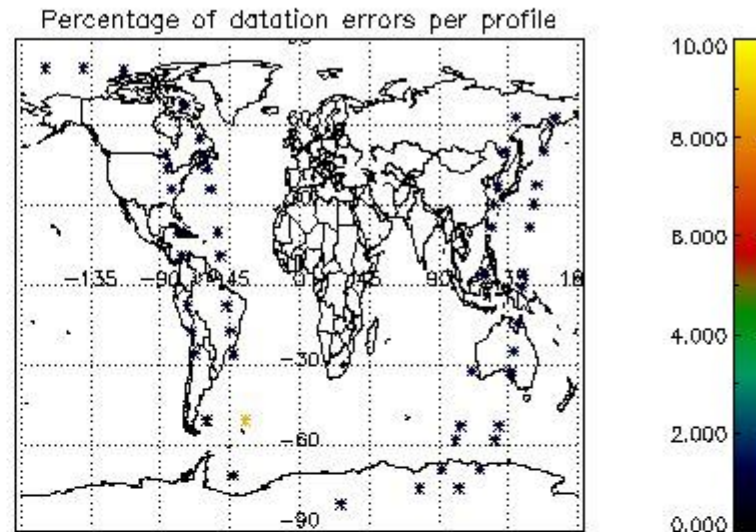
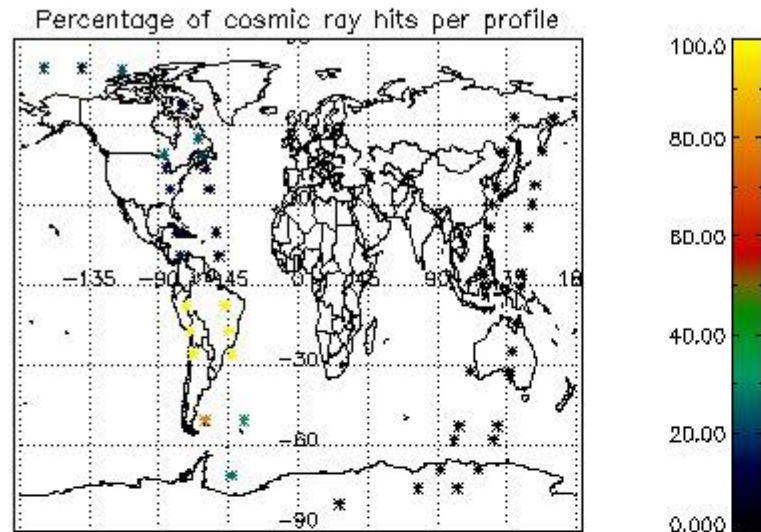
At least one measurement with demodulation flag set:	18.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





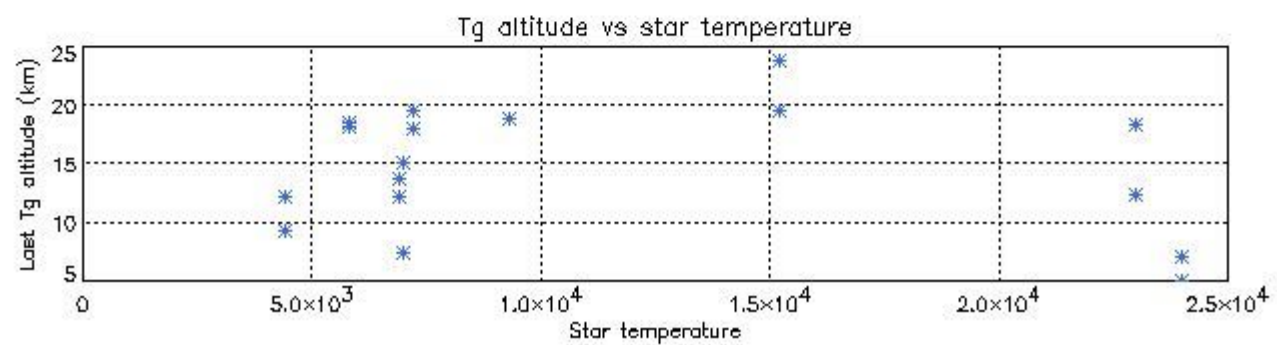
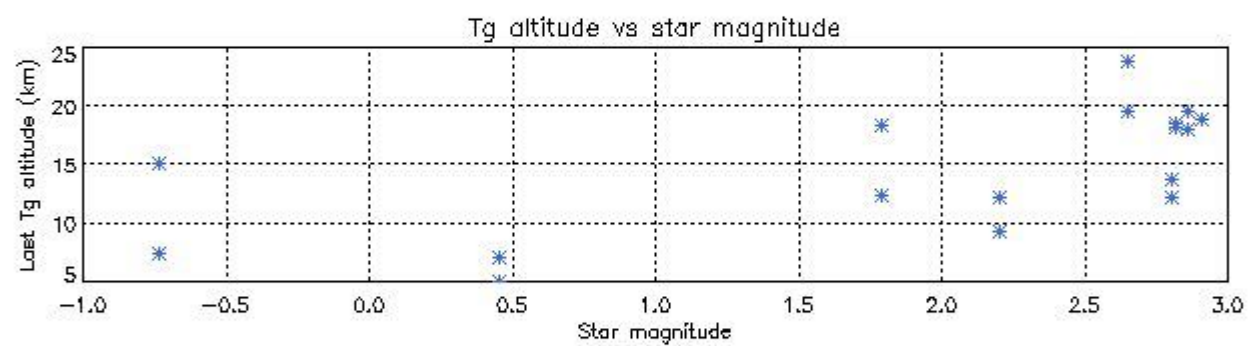
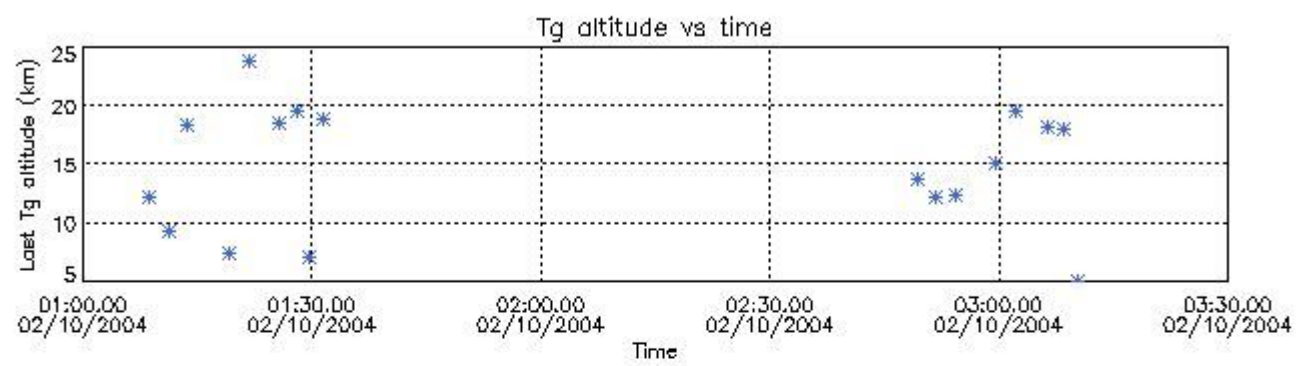
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.650	18.246	8.2974
St. deviation:	5.3250	5.0788	3.1242
Maximum:	23.855	28.823	12.343
Minimum:	5.0702	4.9534	4.9317
Number of data:	17.000	29.000	4.0000

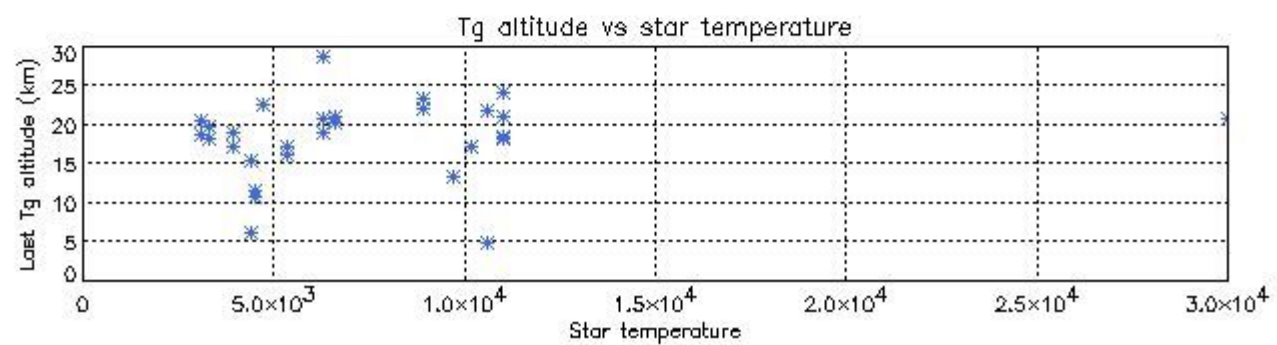
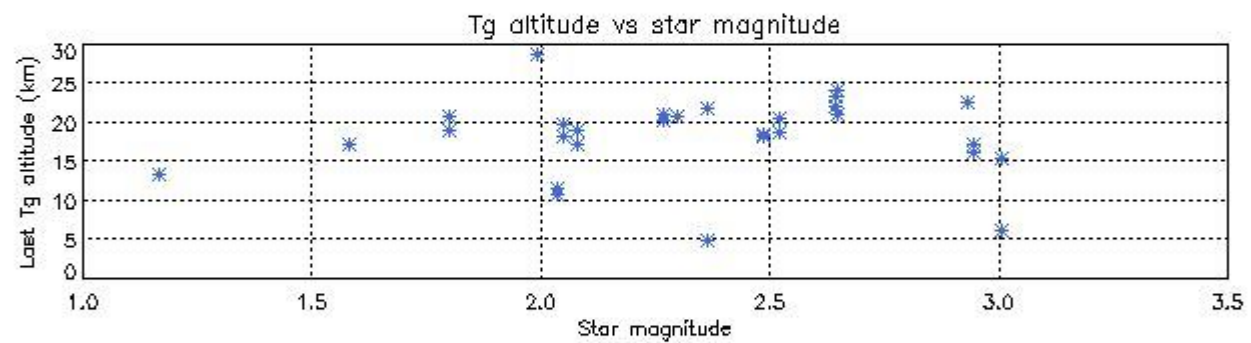
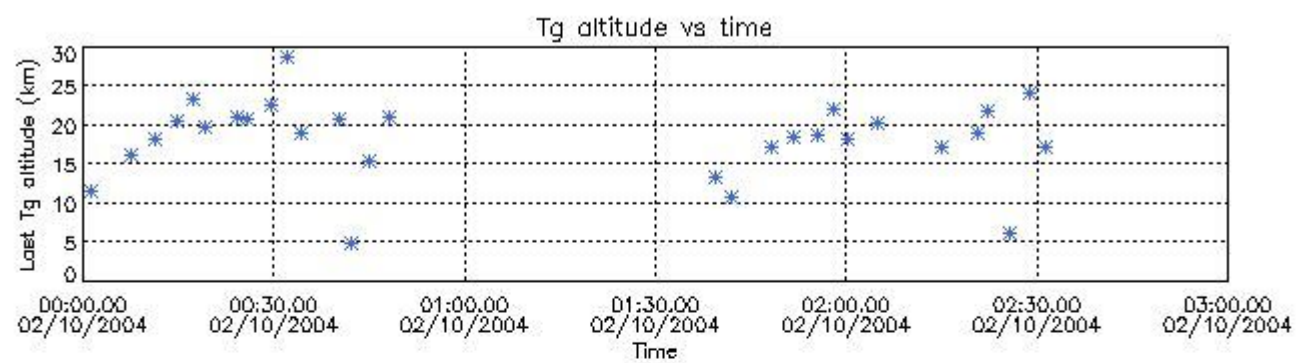
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

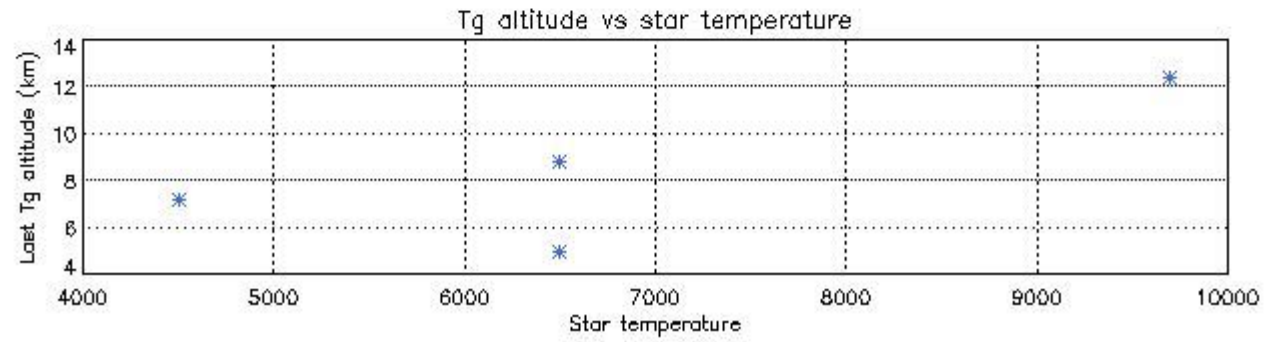
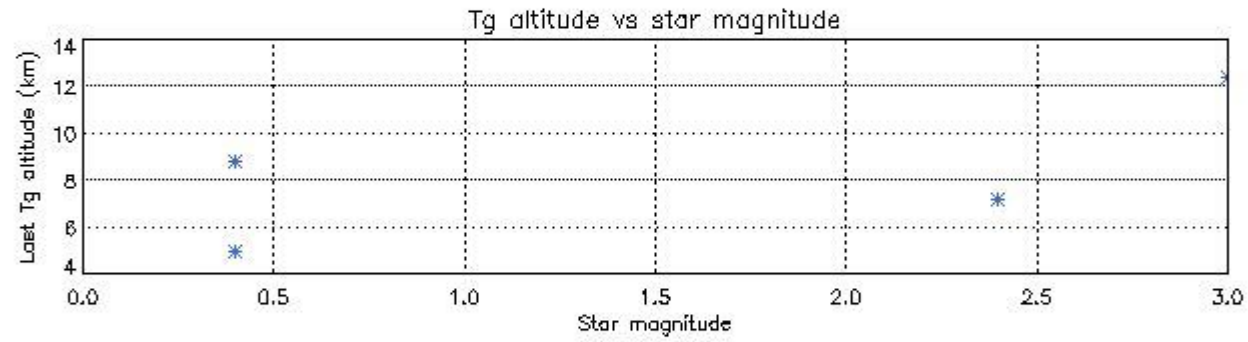
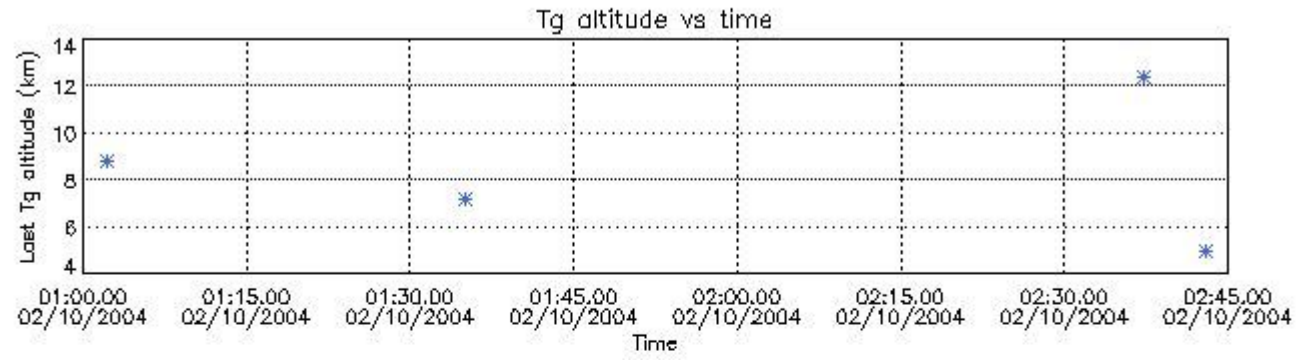
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



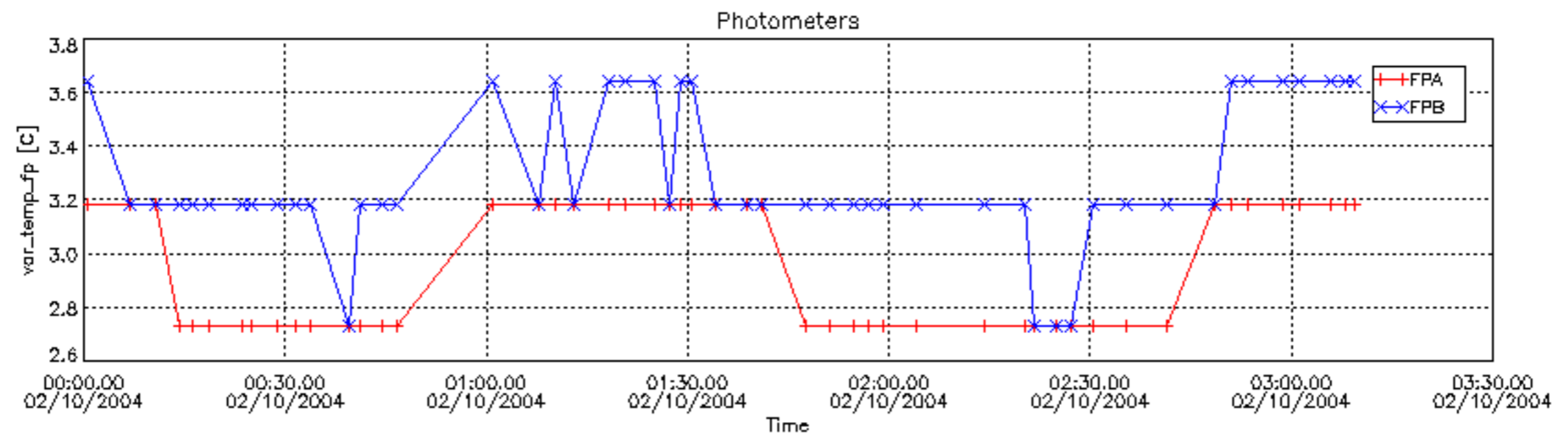
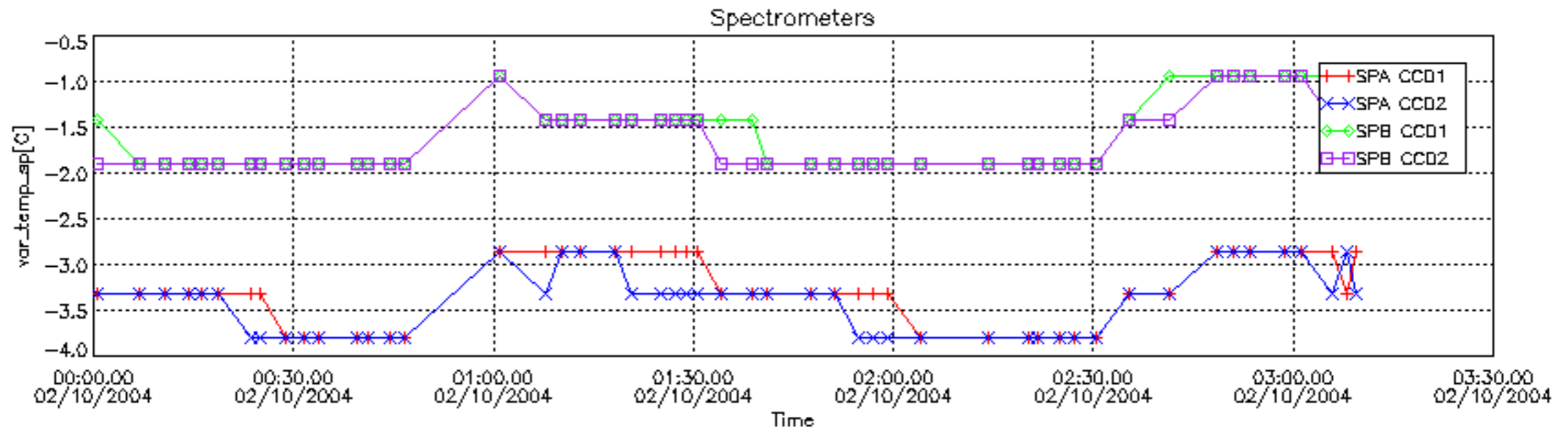
Tangent altitude at which the star is lost

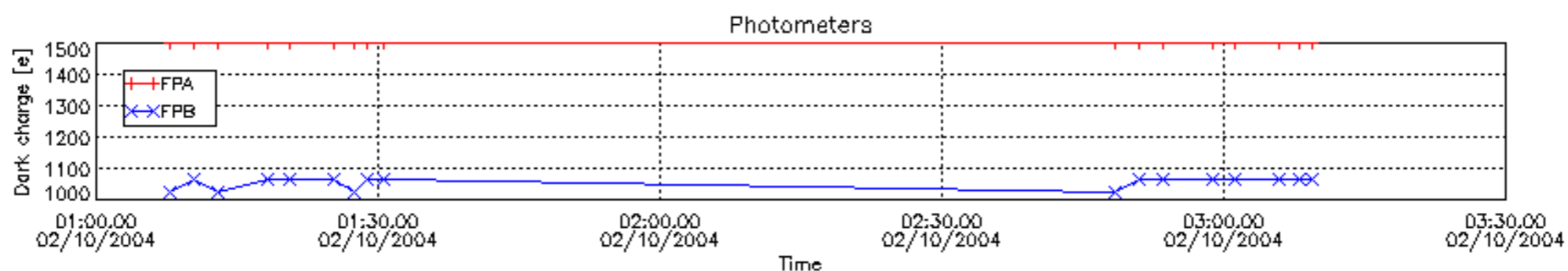
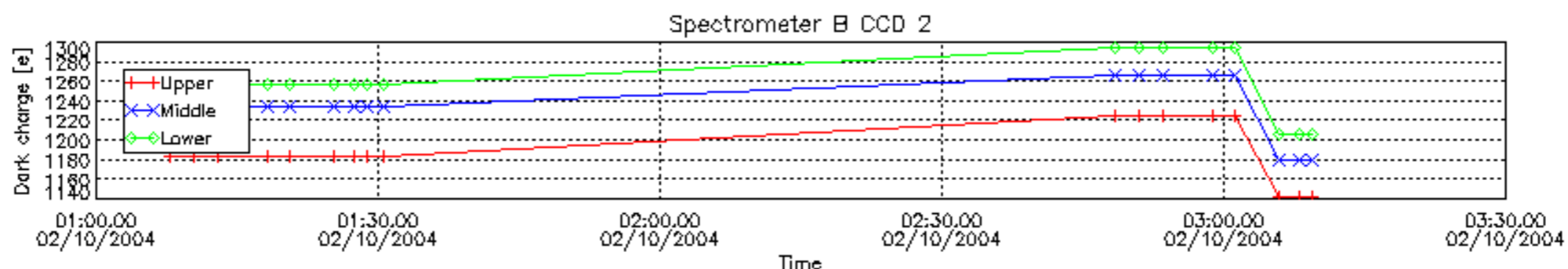
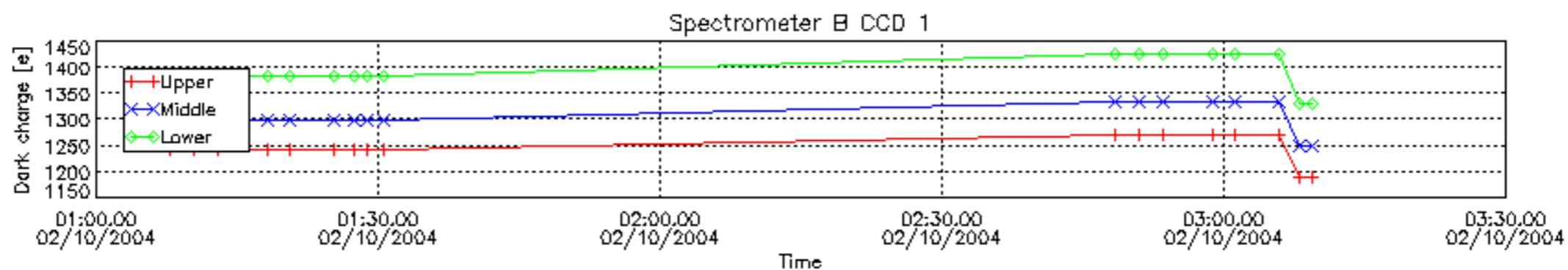
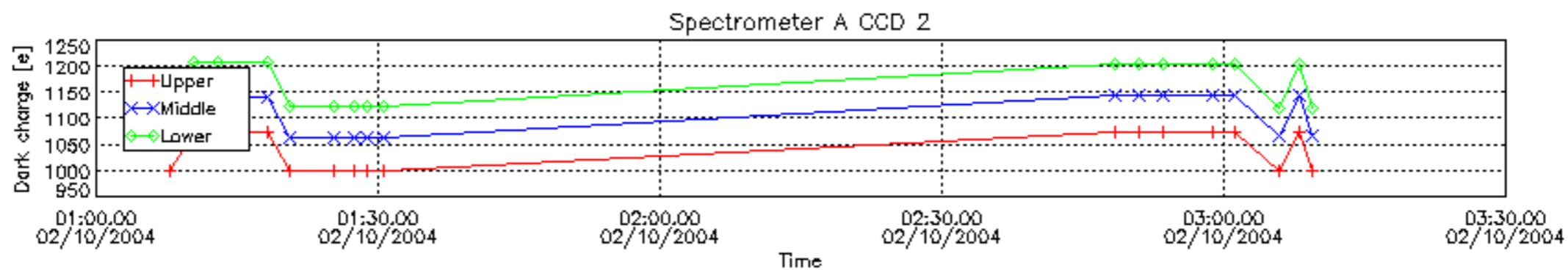
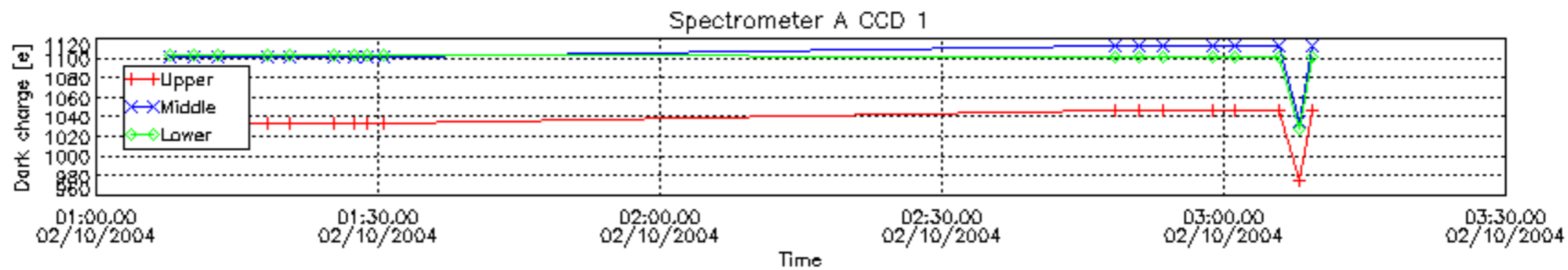


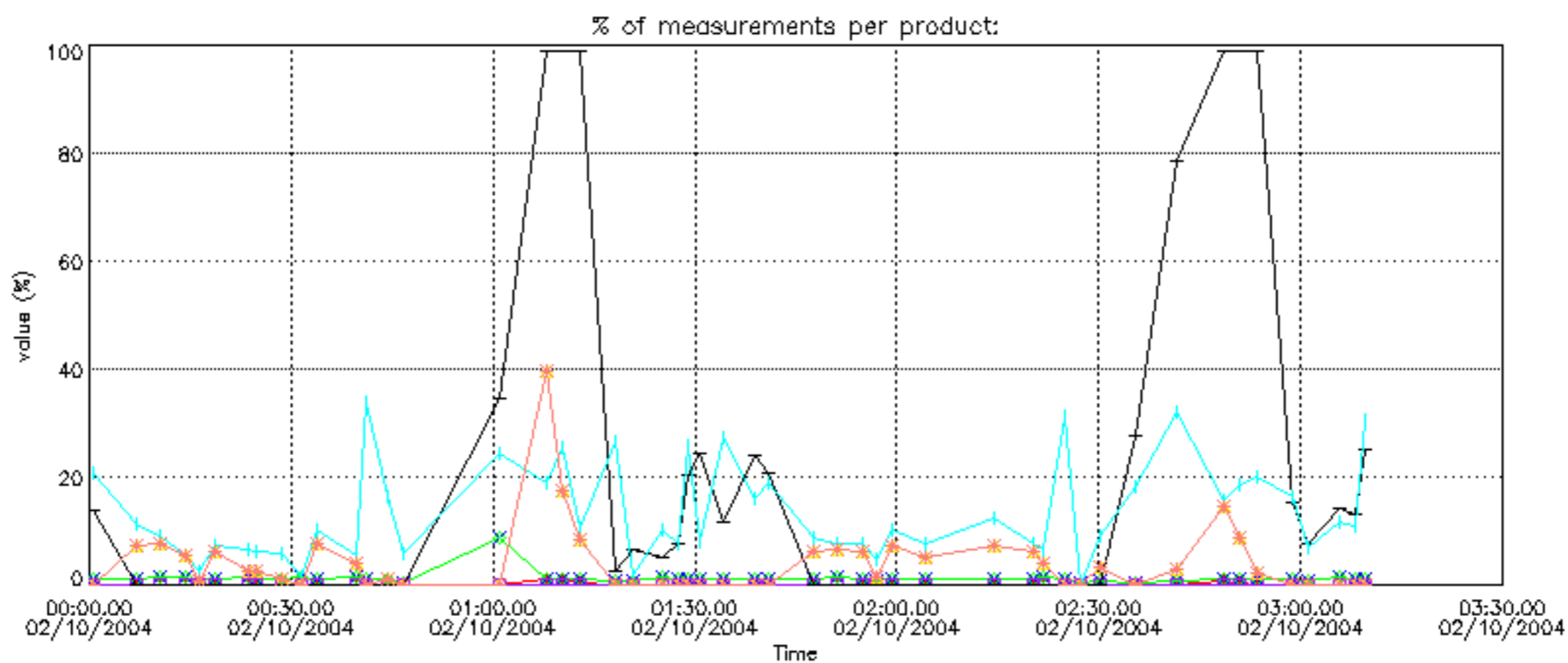
### 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1461.4	1446.7	1461.4	1447.9
St. deviation:	5.7435	6.9255	6.4597	7.2925
Maximum:	1544.0	1558.0	1504.0	1496.0
Minimum:	1455.0	1437.0	1436.0	1426.0
Number of data:	21700.	21700.	35500.	35500.

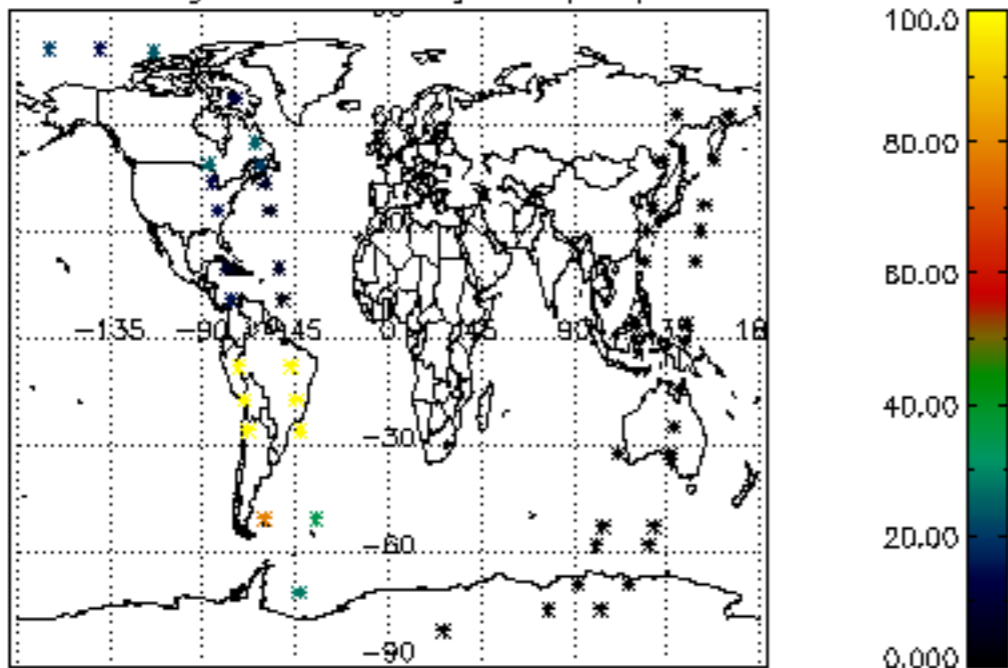




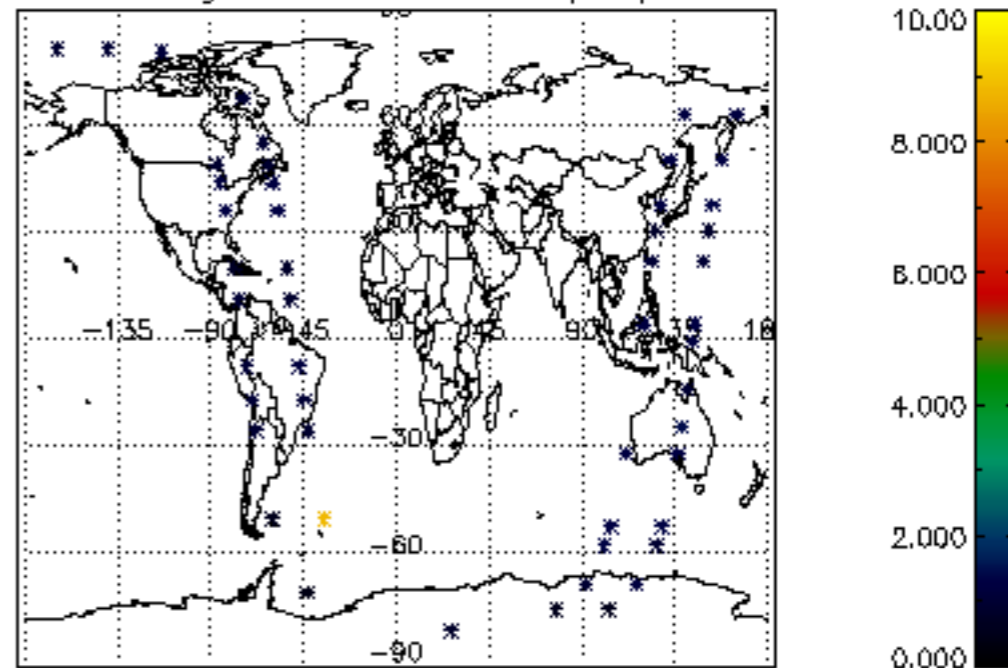




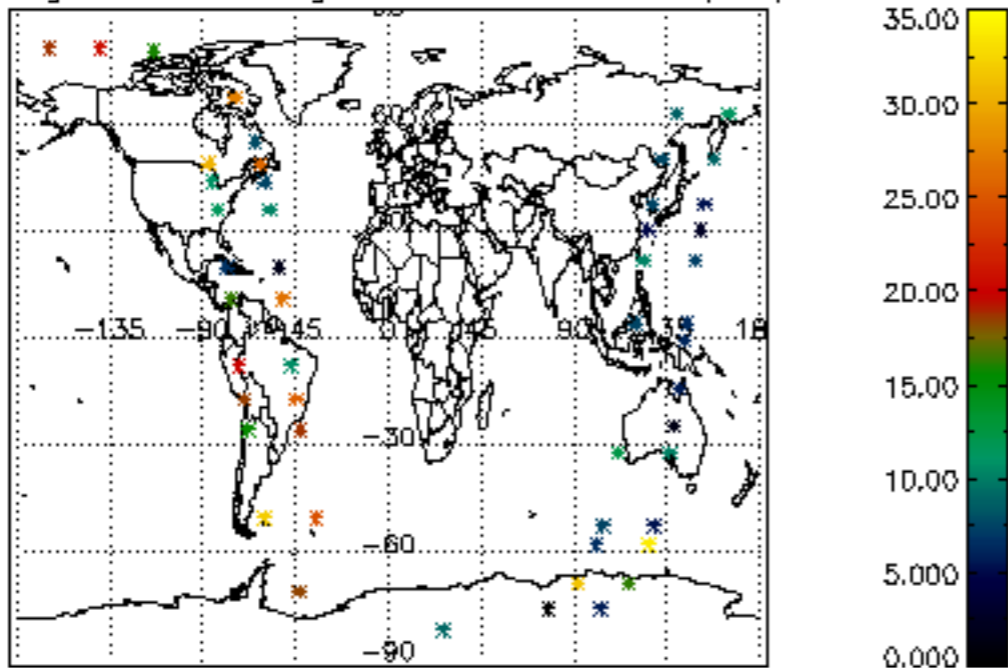
Percentage of cosmic ray hits per profile



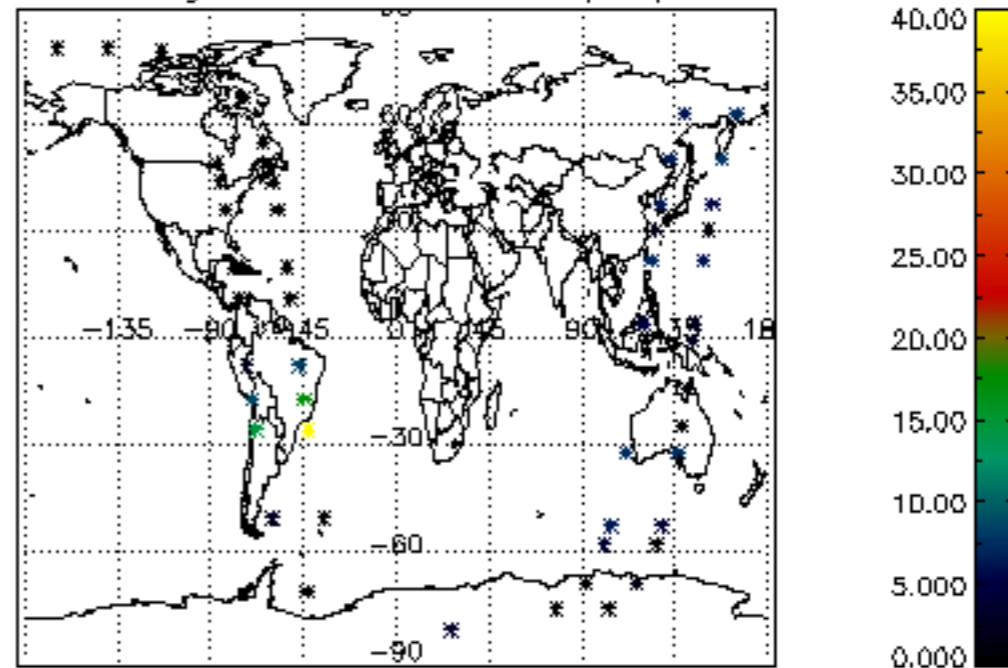
Percentage of datation errors per profile



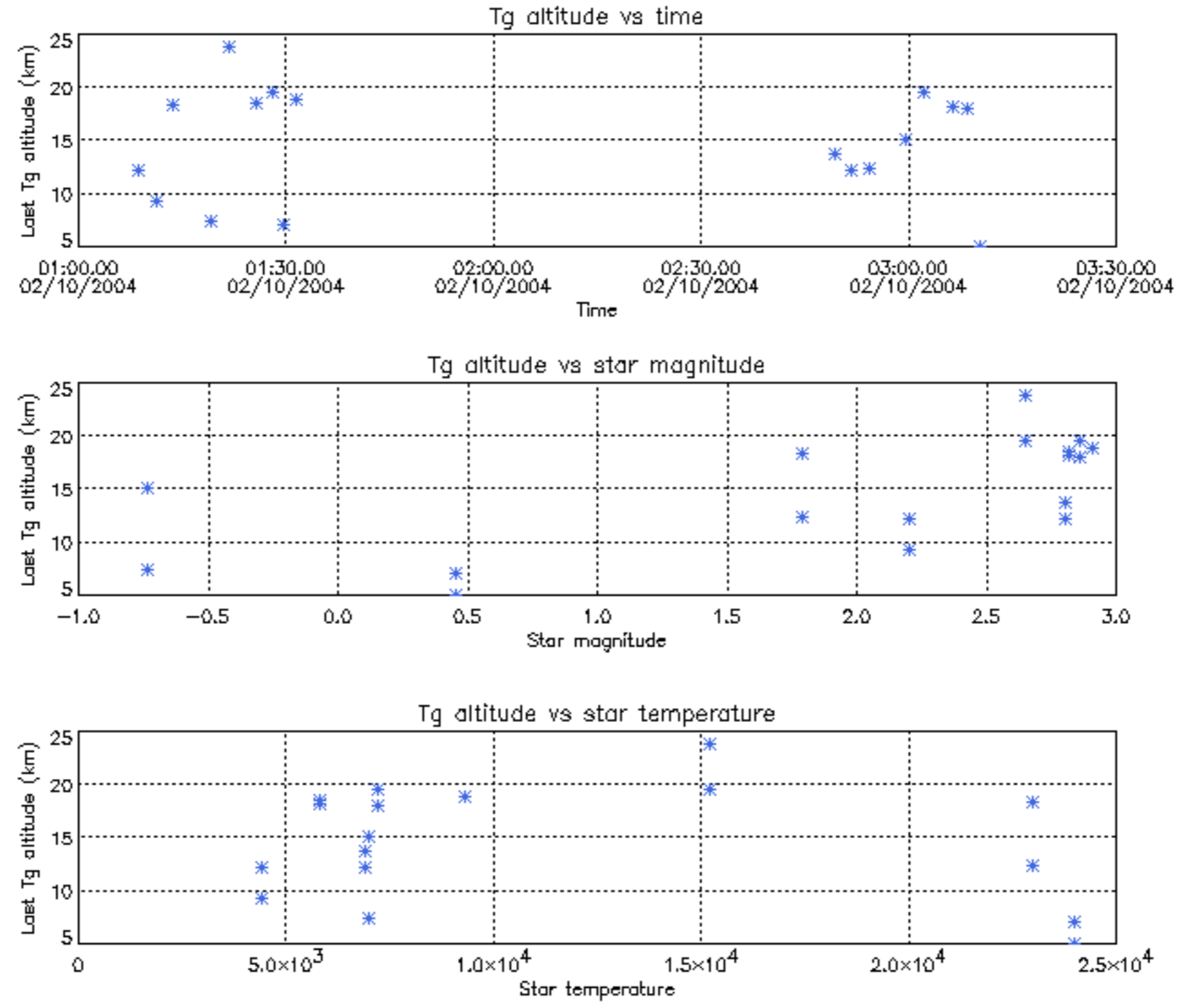
Percentage of star falling outside central band per profile



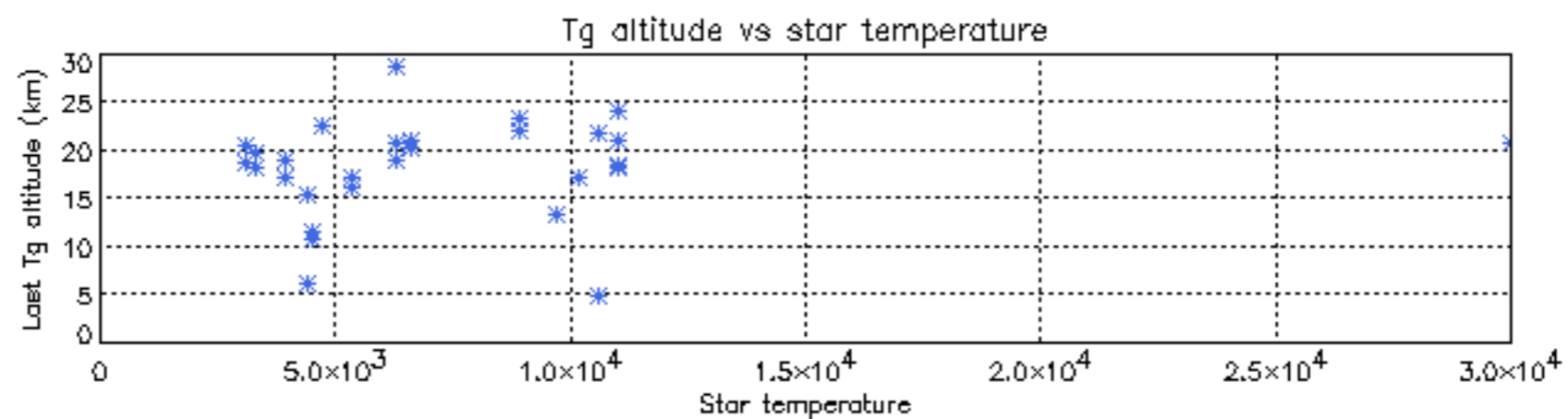
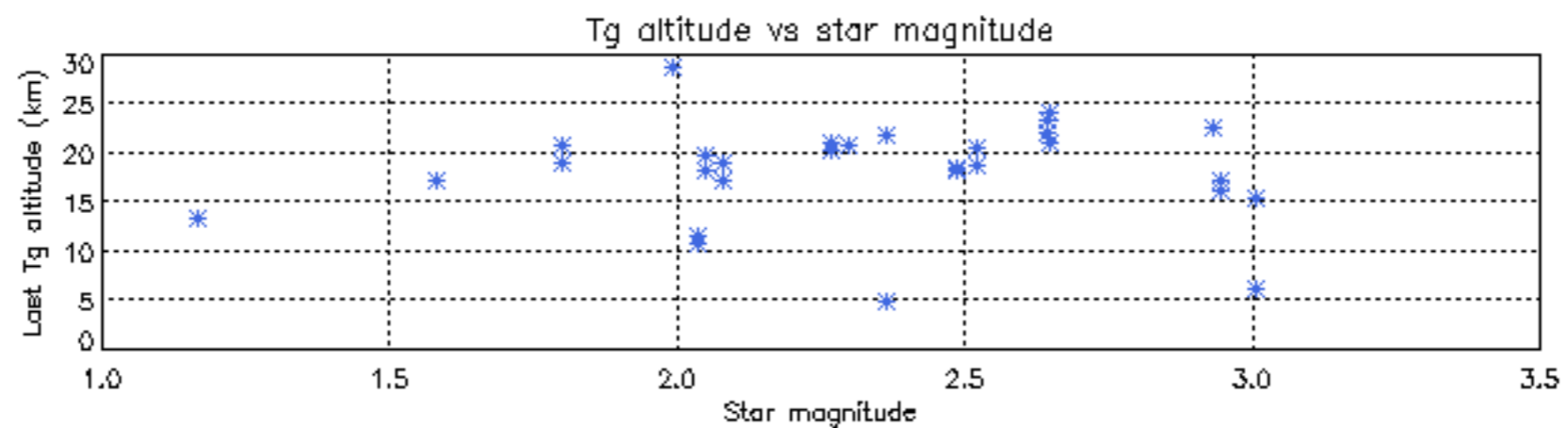
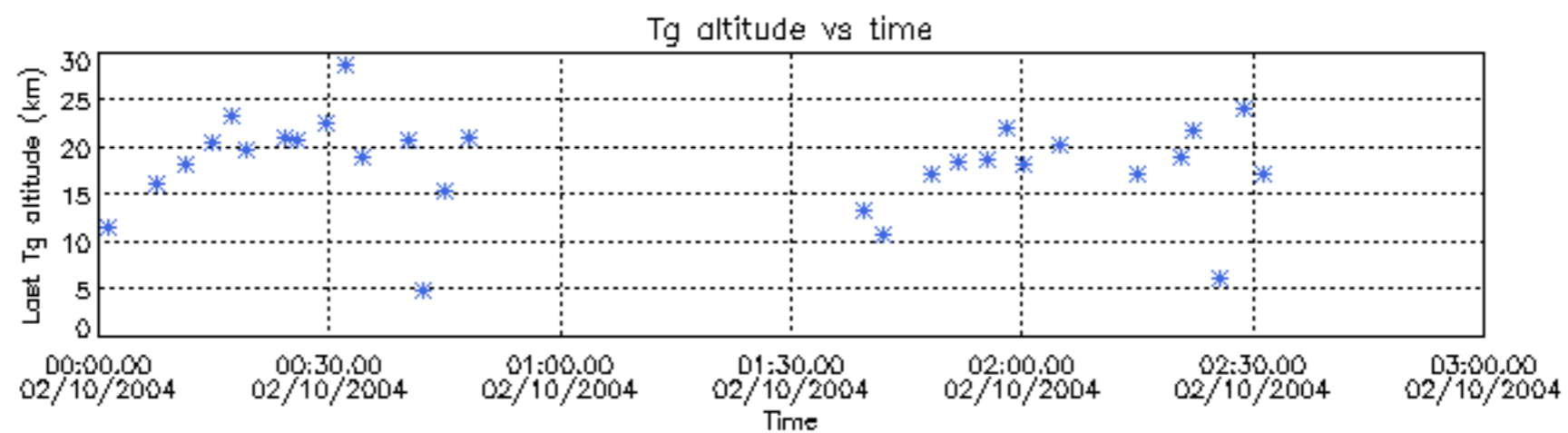
Percentage of saturation errors per profile



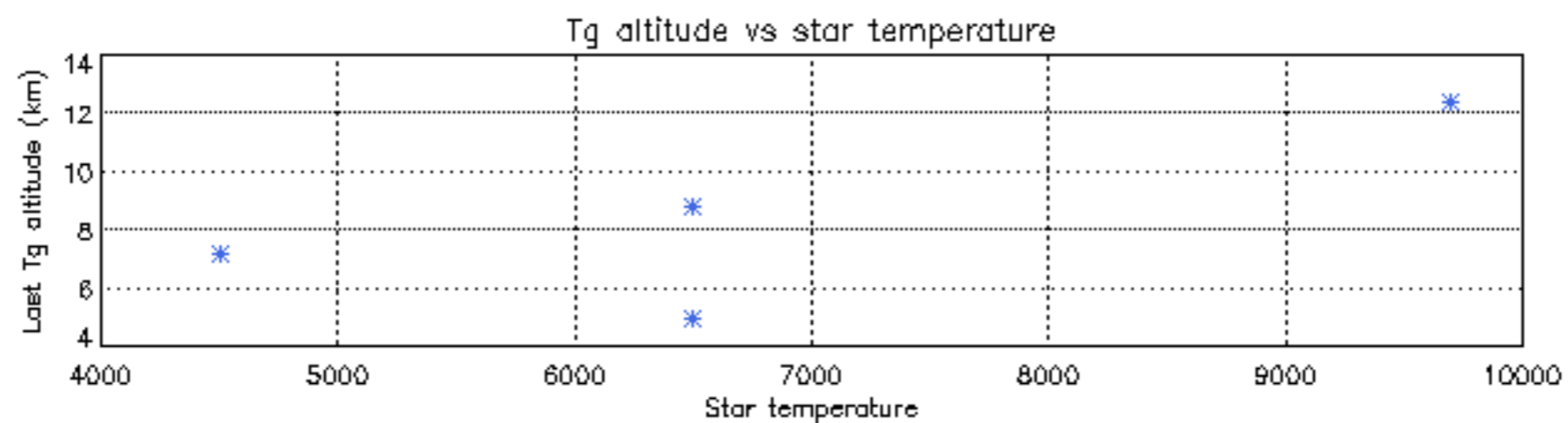
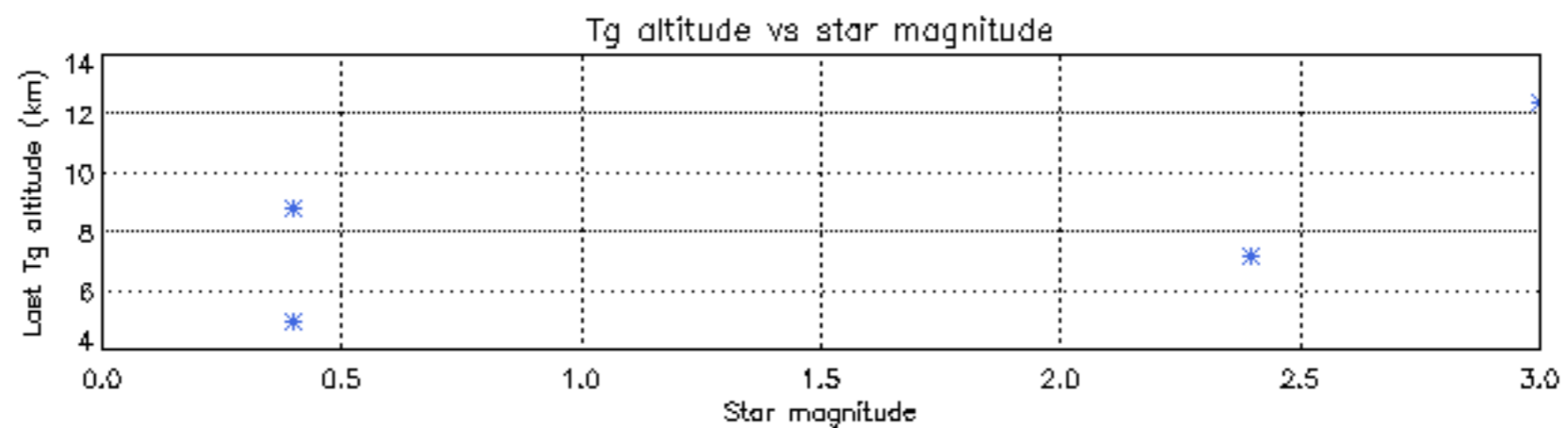
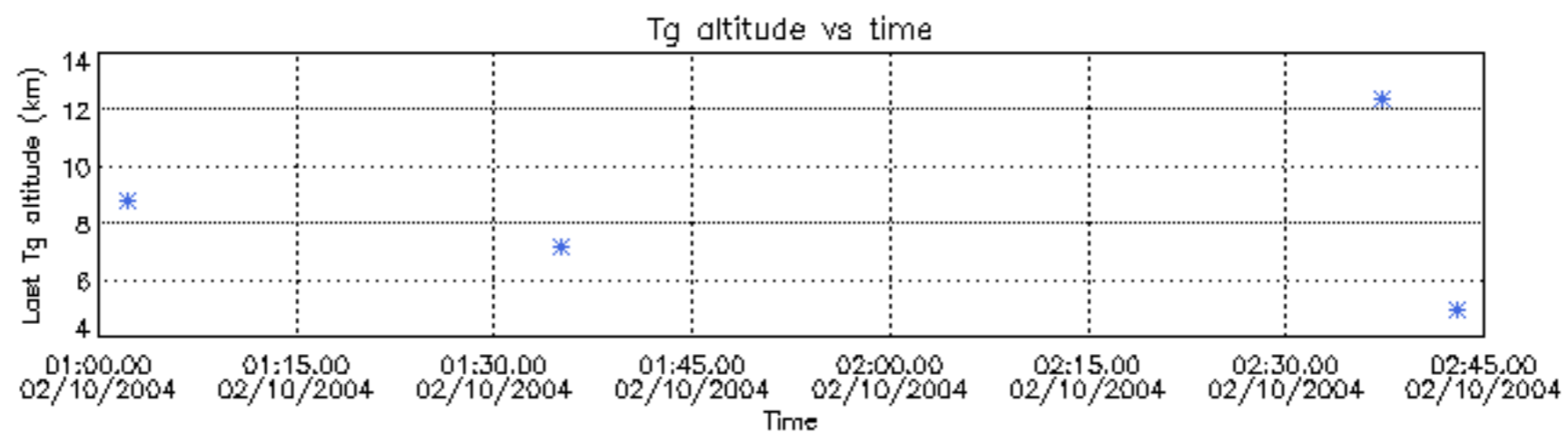
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 7; 308.8; 01-OCT-2004 01:51:52; Dark ; 65.5; 108; Alp Col ; 2.65; 15200;occ; 131; 0;13527  
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 9; 732.6; 01-OCT-2004 01:58:56; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13527  
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 25; 2520.9; 01-OCT-2004 04:09:20; Bright; 64.0; 105; 6Bet Ari ; 2.64; 8900;occ; 128; 0;13528  
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22; 3023.5; 01-OCT-2004 22:44:19; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13539
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24;	4193.9;	04-OCT-2004	01:21:47;	Bright;	52.0;	174;	52Psi UMa	;	3.00;	4400;occ;	104;	0;	13569	
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17; 938.8; 03-OCT-2004 07:41:33; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13559
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19; 1425.6; 03-OCT-2004 07:49:40; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;13559
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 26; 608.9; 04-OCT-2004 15:27:26; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13578  
 27; 750.8; 04-OCT-2004 15:29:48; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13578  
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3;	-271.3;	05-OCT-2004	01:16:21;	Dark	;	47.0;	65;	Lam Vel	;	2.20;	4400;occ;	94;	0;	13583
4;	-180.9;	05-OCT-2004	01:17:52;	Dark	;	48.0;	70;	Zet Pup	;	2.25;	39000;occ;	96;	0;	13583
5;	5.9;	05-OCT-2004	01:20:58;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13584
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8;	609.3;	05-OCT-2004	01:31:02;	Dark	;	41.0;	135;	Bet Hyi	;	2.82;	5800;occ;	82;	0;	13584
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13;	1429.9;	05-OCT-2004	01:44:43;	Dark	;	45.0;	18;	24Alp PsA	;	1.17;	9700;occ;	90;	0;	13584
14;	1563.3;	05-OCT-2004	01:46:56;	Dark	;	47.5;	52;	16Bet Cet	;	2.04;	4500;occ;	95;	0;	13584
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16;	2170.0;	05-OCT-2004	01:57:03;	Bright;	39.5;	90;	54Alp Peg	;	2.49;	11000;occ;	79;	0;	13584	
17;	2383.9;	05-OCT-2004	02:00:36;	Bright;	41.5;	93;	53Bet Peg	;	2.52;	3100;occ;	83;	0;	13584	
18;	2618.7;	05-OCT-2004	02:04:31;	Bright;	49.0;	53;	43Bet And	;	2.05;	3300;occ;	98;	0;	13584	
19;	2786.6;	05-OCT-2004	02:07:19;	Bright;	55.0;	173;	4Bet Tri	;	3.00;	8900;occ;	110;	0;	13584	
20;	3209.3;	05-OCT-2004	02:14:22;	Bright;	52.0;	160;	23Gam Per	;	2.93;	4700;occ;	104;	0;	13584	
21;	3425.5;	05-OCT-2004	02:17:58;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	13584	

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2;	-2034.6;	05-OCT-2004	07:29:22;	Bright;	35.5;	82;	48Bet UMA	;	2.37;	10600;occ;	71;	0;	13587	
3;	-1839.3;	05-OCT-2004	07:32:37;	Bright;	52.0;	174;	52Psi UMA	;	3.00;	4400;occ;	104;	0;	13587	
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7;	-796.3;	05-OCT-2004	07:50:00;	Dark	;	84.5;	8;	10Alp CMI	;	0.40;	6500;occ;	169;	0;	13587
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9;	-268.0;	05-OCT-2004	07:58:49;	Dark	;	46.0;	65;	Lam Vel	;	2.20;	4400;occ;	92;	0;	13587
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12;	220.3;	05-OCT-2004	08:06:57;	Dark	;	47.5;	2;	Alp Car	;	-0.74;	7000;occ;	95;	0;	13588
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16;	842.7;	05-OCT-2004	08:17:19;	Dark	;	46.5;	9;	Alp Eri	;	0.45;	24000;occ;	93;	0;	13588
17;	958.9;	05-OCT-2004	08:19:15;	Dark	;	52.0;	157;	The1Eri	;	2.91;	9300;occ;	104;	0;	13588
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19;	1430.3;	05-OCT-2004	08:27:07;	Dark	;	44.5;	18;	24Alp PsA	;	1.17;	9700;occ;	89;	0;	13588
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3;	-3864.0;	05-OCT-2004	08:39:28;	Bright;	36.5;	90;	54Alp Peg	;	2.49;	11000;occ;	73;	0;	13588	
4;	-3648.7;	05-OCT-2004	08:43:04;	Bright;	36.5;	93;	53Bet Peg	;	2.52;	3100;occ;	73;	0;	13588	
5;	-3419.1;	05-OCT-2004	08:46:53;	Bright;	48.5;	53;	43Bet And	;	2.05;	3300;occ;	97;	0;	13588	
6;	-3254.1;	05-OCT-2004	08:49:38;	Bright;	55.5;	173;	4Bet Tri	;	3.00;	8900;occ;	111;	0;	13588	
7;	-3114.5;	05-OCT-2004	08:51:58;	Bright;	40.5;	68;	18Alp Cas	;	2.22;	4500;occ;	81;	0;	13588	
8;	-3023.2;	05-OCT-2004	08:53:29;	Bright;	38.0;	89;	5Alp Cep	;	2.45;	8000;occ;	76;	0;	13588	
9;	-2830.8;	05-OCT-2004	08:56:42;	Bright;	49.5;	160;	23Gam Per	;	2.93;	4700;occ;	99;	0;	13588	
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12;	-2125.6;	05-OCT-2004	09:08:27;	Bright;	37.0;	36;	50Alp UMA	;	1.80;	6300;occ;	74;	0;	13588	
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14;	-1838.8;	05-OCT-2004	09:13:14;	Bright;	36.5;	174;	52Psi UMA	;	3.00;	4400;occ;	73;	0;	13588	
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28; 958.9; 05-OCT-2004 09:59:51; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13589
29; 1157.9; 05-OCT-2004 10:03:10; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;13589
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6; 2428.7; 20-OCT-2004 20:56:44; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;13810
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4;	209.3;	20-OCT-2004	22:00:20;	Dark	;	65.5;	117;	Pi Pup	;	2.71;	3800;occ;	131;	0;	13811
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