

# GOMOS Daily Report 04-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	06OCT2004 05:01:34
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (04OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (05OCT2004 00:00:00)

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

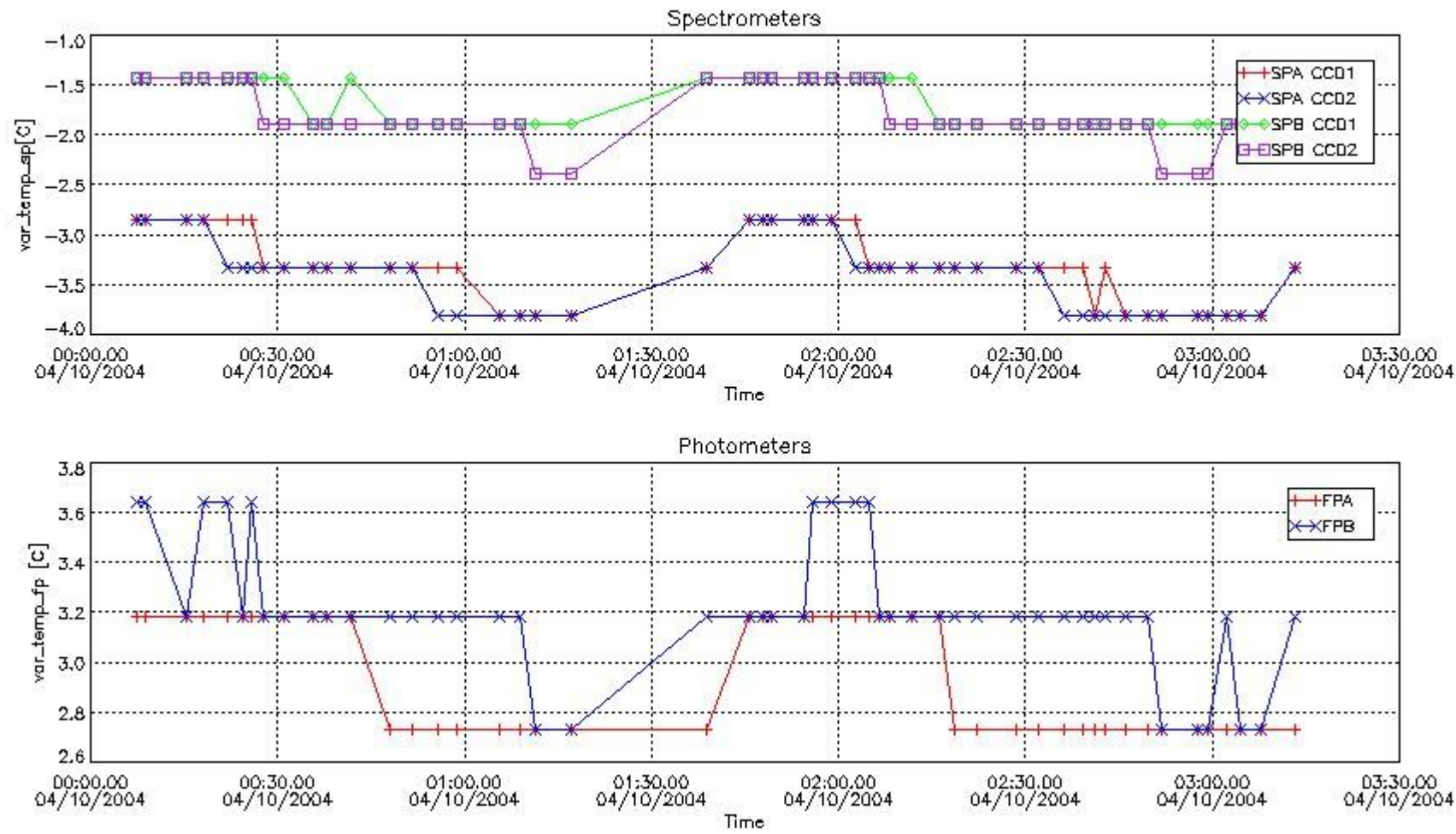
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20041004_000716_000000522030_00488_13568_0001.N1	04-OCT-2004 00:07:16	Dark	51.500	65	Lam Vel	2.2040	4400.0	103	13568	No
GOM_TRA_1PNPDE20041004_000844_000000462030_00488_13568_0002.N1	04-OCT-2004 00:08:44	Dark	45.500	70	Zet Pup	2.2460	39000.	91	13568	No
GOM_TRA_1PNPDE20041004_001518_000000602030_00489_13569_0003.N1	04-OCT-2004 00:15:18	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	13569	No
GOM_TRA_1PNPDE20041004_001808_000000672030_00489_13569_0004.N1	04-OCT-2004 00:18:08	Dark	67.000	108	Alp Col	2.6520	15200.	134	13569	No
GOM_TRA_1PNPDE20041004_002201_000000392030_00489_13569_0005.N1	04-OCT-2004 00:22:01	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13569	No
GOM_TRA_1PNPDE20041004_002421_000000412030_00489_13569_0006.N1	04-OCT-2004 00:24:21	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	13569	No
GOM_TRA_1PNPDE20041004_002548_000000482030_00489_13569_0007.N1	04-OCT-2004 00:25:48	Dark	48.000	9	Alp Eri	0.45300	24000.	96	13569	No
GOM_TRA_1PNPDE20041004_002739_000000532030_00489_13569_0008.N1	04-OCT-2004 00:27:39	Dark	52.500	157	The1Eri	2.9060	9300.0	105	13569	No
GOM_TRA_1PNPDE20041004_003106_000000442030_00489_13569_0009.N1	04-OCT-2004 00:31:06	Twilight	44.000	84	Alp Phe	2.3970	4500.0	88	13569	No
GOM_TRA_1PNPDE20041004_003541_000000432030_00489_13569_0010.N1	04-OCT-2004 00:35:41	Bright	43.000	18	24Alp PsA	1.1660	9700.0	86	13569	No
GOM_TRA_1PNPDE20041004_003753_000000542030_00489_13569_0011.N1	04-OCT-2004 00:37:53	Bright	53.500	52	16Bet Cet	2.0370	4500.0	107	13569	No
GOM_TRA_1PNPDE20041004_004137_000001772030_00489_13569_0012.N1	04-OCT-2004 00:41:37	Twilight	177.00	165	34Gam Eri	2.9500	3200.0	354	13569	No
GOM_TRA_1PNPDE20041004_004802_000000392030_00489_13569_0013.N1	04-OCT-2004 00:48:02	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	13569	No
GOM_TRA_1PNPDE20041004_005138_000000402030_00489_13569_0014.N1	04-OCT-2004 00:51:38	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	13569	No
GOM_TRA_1PNPDE20041004_005541_000000512030_00489_13569_0015.N1	04-OCT-2004 00:55:41	Bright	50.500	53	43Bet And	2.0480	3300.0	101	13569	No
GOM_TRA_1PNPDE20041004_005837_000000572030_00489_13569_0016.N1	04-OCT-2004 00:58:37	Bright	57.000	173	4Bet Tri	3.0040	8900.0	114	13569	No
GOM_TRA_1PNPDE20041004_010537_000000482030_00489_13569_0017.N1	04-OCT-2004 01:05:37	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	13569	No
GOM_TRA_1PNPDE20041004_010859_000000382030_00489_13569_0018.N1	04-OCT-2004 01:08:59	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	13569	No
GOM_TRA_1PNPDE20041004_011115_000000392030_00489_13569_0019.N1	04-OCT-2004 01:11:15	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	13569	No
GOM_TRA_1PNPDE20041004_011702_000000402030_00489_13569_0020.N1	04-OCT-2004 01:17:02	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13569	No
GOM_TRA_1PNPDE20041004_013850_000000802030_00489_13569_0000.N1	04-OCT-2004 01:38:50	Dark	79.500	8	10Alp CMi	0.40000	6500.0	159	13569	No
GOM_TRA_1PNPDE20041004_014539_000000512030_00489_13569_0001.N1	04-OCT-2004 01:45:39	Dark	51.000	132	15Rho Pup	2.8030	6900.0	102	13569	No
GOM_TRA_1PNPDE20041004_014753_000000452030_00489_13569_0002.N1	04-OCT-2004 01:47:53	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	13569	No
GOM_TRA_1PNPDE20041004_014921_000000452030_00489_13569_0003.N1	04-OCT-2004 01:49:21	Dark	45.000	70	Zet Pup	2.2460	39000.	90	13569	No
GOM_TRA_1PNPDE20041004_015428_000000482030_00490_13570_0004.N1	04-OCT-2004 01:54:28	Dark	47.500	161	Tau Pup	2.9310	4500.0	95	13570	No
GOM_TRA_1PNPDE20041004_015554_000000502030_00490_13570_0005.N1	04-OCT-2004 01:55:54	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	13570	No
GOM_TRA_1PNPDE20041004_015846_000000642030_00490_13570_0006.N1	04-OCT-2004 01:58:46	Dark	64.000	108	Alp Col	2.6520	15200.	128	13570	No
GOM_TRA_1PNPDE20041004_020238_000000392030_00490_13570_0007.N1	04-OCT-2004 02:02:38	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13570	No
GOM_TRA_1PNPDE20041004_020458_000000402030_00490_13570_0008.N1	04-OCT-2004 02:04:58	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	13570	No
GOM_TRA_1PNPDE20041004_020625_000000492030_00490_13570_0009.N1	04-OCT-2004 02:06:25	Dark	48.500	9	Alp Eri	0.45300	24000.	97	13570	No
GOM_TRA_1PNPDE20041004_020816_000000542030_00490_13570_0010.N1	04-OCT-2004 02:08:16	Dark	53.500	157	The1Eri	2.9060	9300.0	107	13570	No
GOM_TRA_1PNPDE20041004_021142_000000462030_00490_13570_0011.N1	04-OCT-2004 02:11:42	Twilight	45.500	84	Alp Phe	2.3970	4500.0	91	13570	No
GOM_TRA_1PNPDE20041004_021617_000000472030_00490_13570_0012.N1	04-OCT-2004 02:16:17	Bright	47.000	18	24Alp PsA	1.1660	9700.0	94	13570	No
GOM_TRA_1PNPDE20041004_021829_000000512030_00490_13570_0013.N1	04-OCT-2004 02:18:29	Bright	50.500	52	16Bet Cet	2.0370	4500.0	101	13570	No
GOM_TRA_1PNPDE20041004_022211_000002002030_00490_13570_0014.N1	04-OCT-2004 02:22:11	Twilight	200.00	165	34Gam Eri	2.9500	3200.0	400	13570	No
GOM_TRA_1PNPDE20041004_022838_000000392030_00490_13570_0015.N1	04-OCT-2004 02:28:38	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	13570	No
GOM_TRA_1PNPDE20041004_023212_000000432030_00490_13570_0016.N1	04-OCT-2004 02:32:12	Bright	42.500	93	53Bet Peg	2.5200	3100.0	85	13570	No
GOM_TRA_1PNPDE20041004_023616_000000492030_00490_13570_0017.N1	04-OCT-2004 02:36:16	Bright	49.000	53	43Bet And	2.0480	3300.0	98	13570	No
GOM_TRA_1PNPDE20041004_023912_000000562030_00490_13570_0018.N1	04-OCT-2004 02:39:12	Bright	55.500	173	4Bet Tri	3.0040	8900.0	111	13570	No
GOM_TRA_1PNPDE20041004_024116_000000392030_00490_13570_0019.N1	04-OCT-2004 02:41:16	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	13570	No
GOM_TRA_1PNPDE20041004_024241_000000402030_00490_13570_0020.N1	04-OCT-2004 02:42:41	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	13570	No
GOM_TRA_1PNPDE20041004_024612_000000522030_00490_13570_0021.N1	04-OCT-2004 02:46:12	Bright	51.500	160	23Gam Per	2.9300	4700.0	103	13570	No
GOM_TRA_1PNPDE20041004_024935_000000372030_00490_13570_0022.N1	04-OCT-2004 02:49:35	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	13570	No
GOM_TRA_1PNPDE20041004_025150_000000432030_00490_13570_0000.N1	04-OCT-2004 02:51:50	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	13570	No
GOM_TRA_1PNPDE20041004_025738_000000382030_00490_13570_0001.N1	04-OCT-2004 02:57:38	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	13570	No
GOM_TRA_1PNPDE20041004_025908_000000392030_00490_13570_0002.N1	04-OCT-2004 02:59:08	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	13570	No
GOM_TRA_1PNPDE20041004_030223_000000382030_00490_13570_0003.N1	04-OCT-2004 03:02:23	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	13570	No
GOM_TRA_1PNPDE20041004_030423_000001032030_00490_13570_0004.N1	04-OCT-2004 03:04:23	Bright	103.00	107	37The Aur	2.6490	11000.	206	13570	No
GOM_TRA_1PNPDE20041004_030749_000000602030_00490_13570_0005.N1	04-OCT-2004 03:07:49	Bright	60.000	24	66Alp Gem	1.5800	10200.	120	13570	No

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



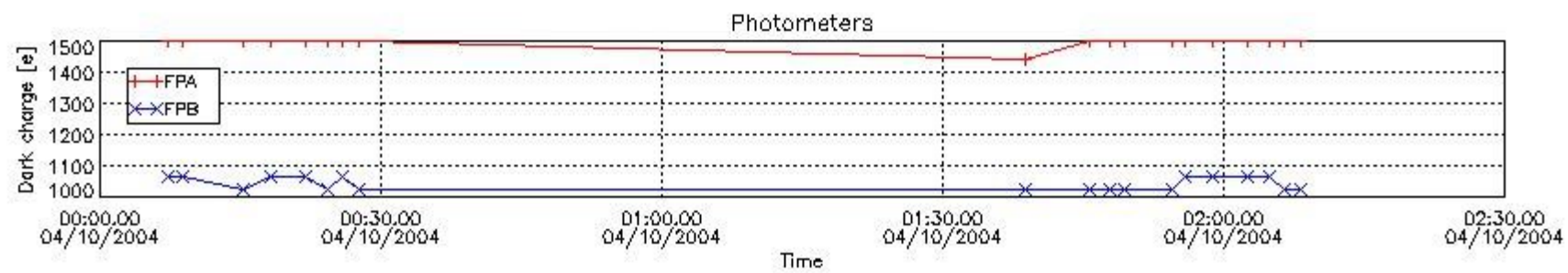
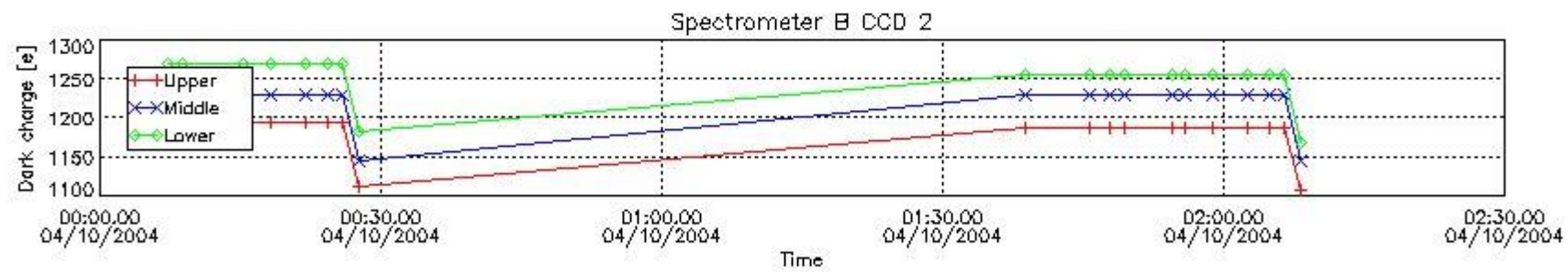
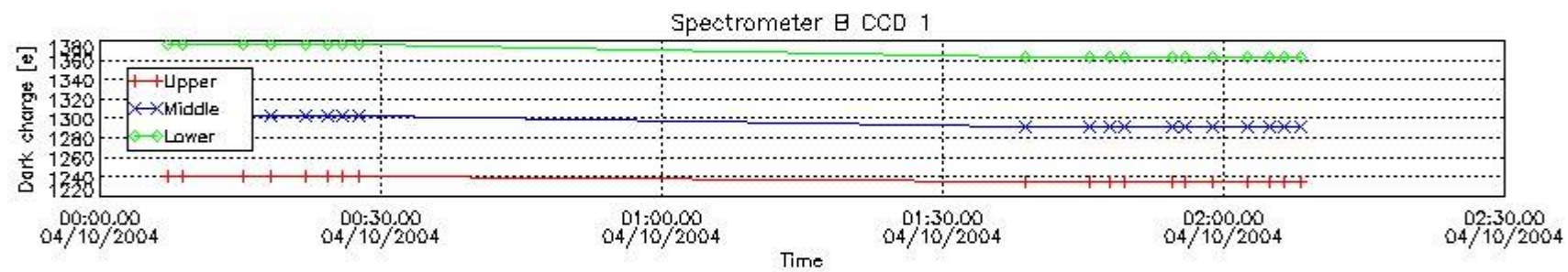
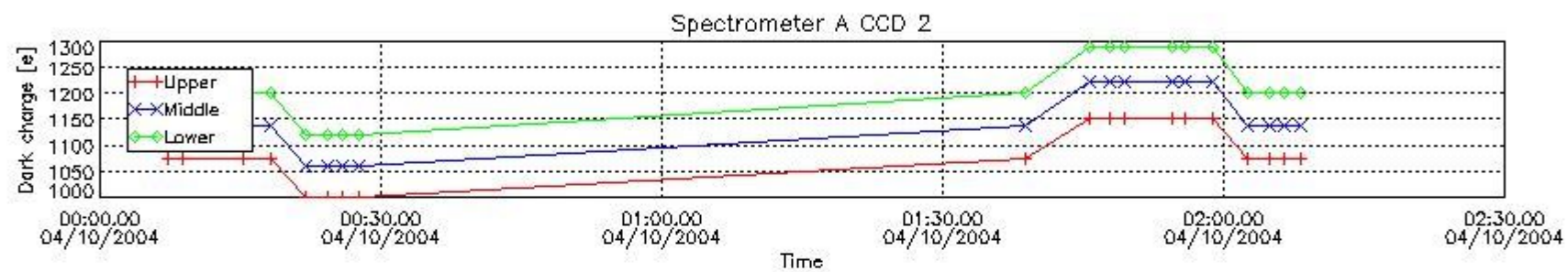
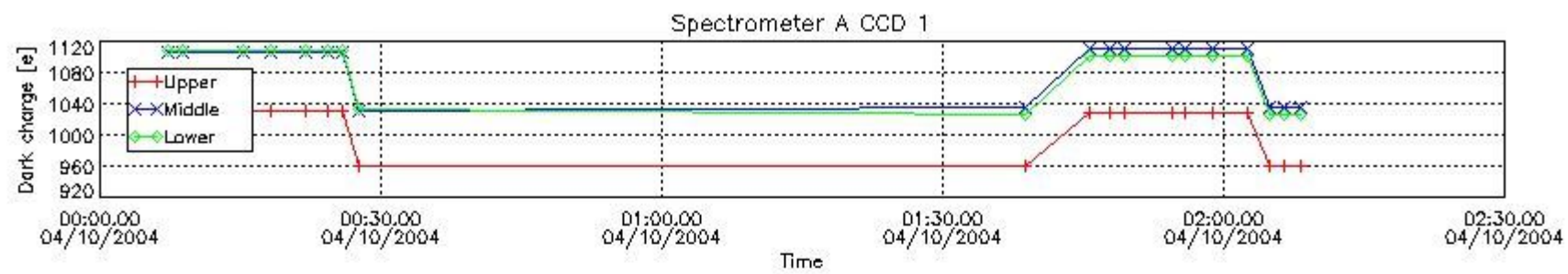
### 4. Overview of dark signal processing per product

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





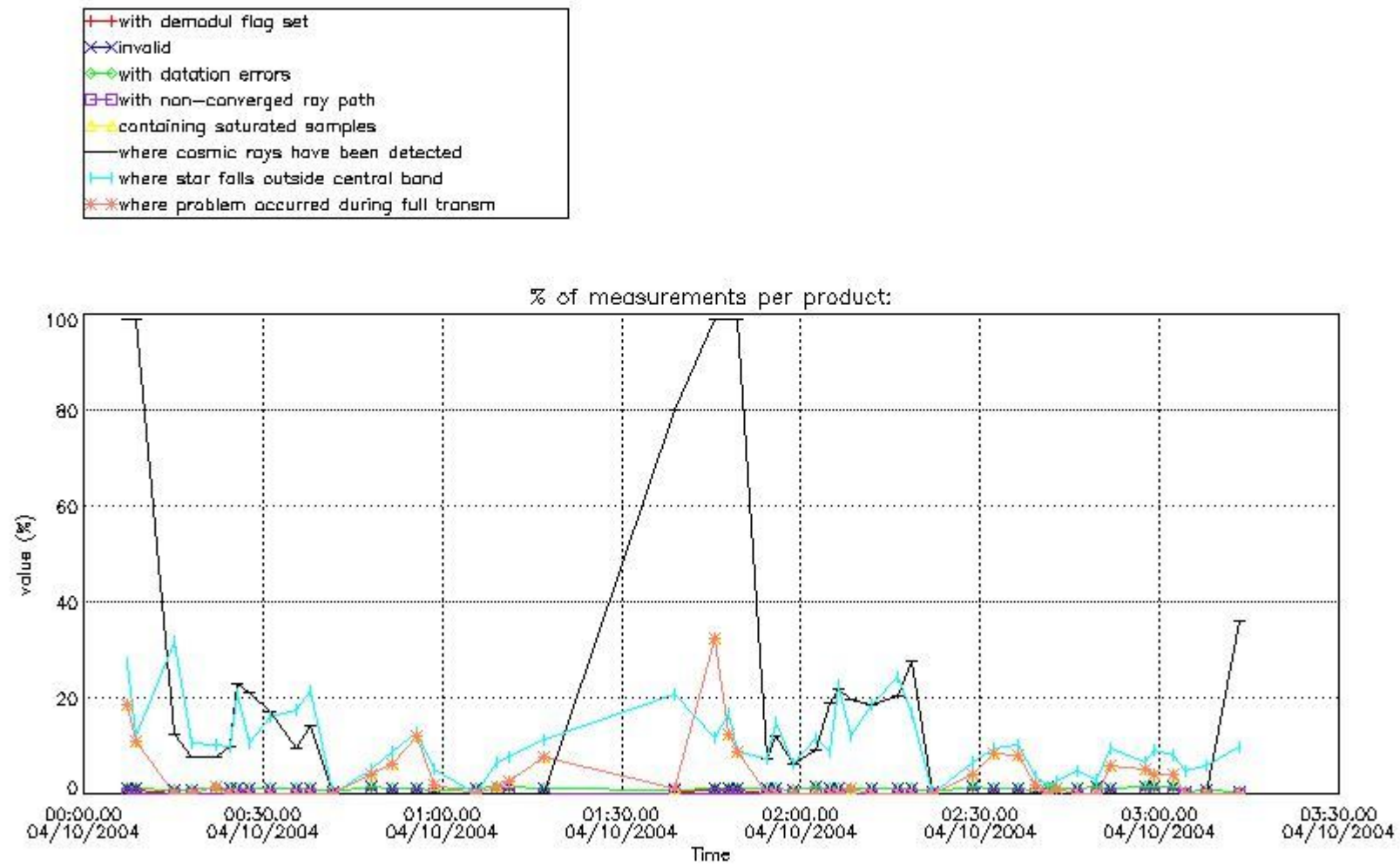
## 5. Demodulation flag and quality information monitoring

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.

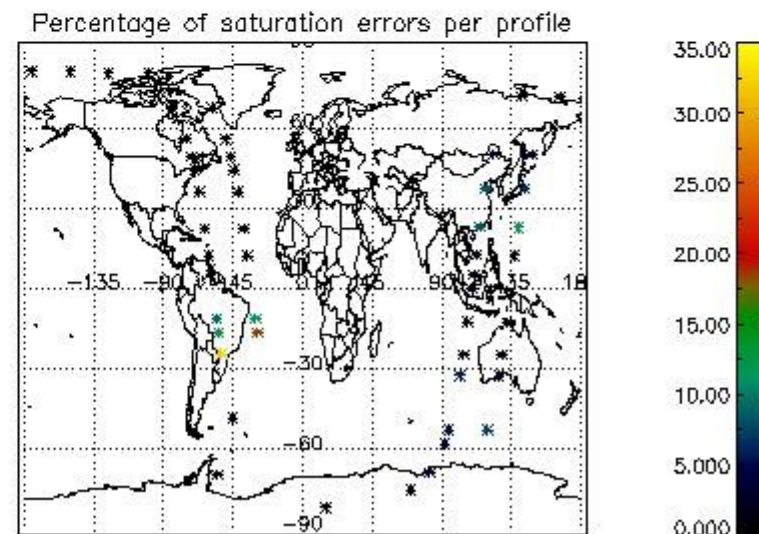
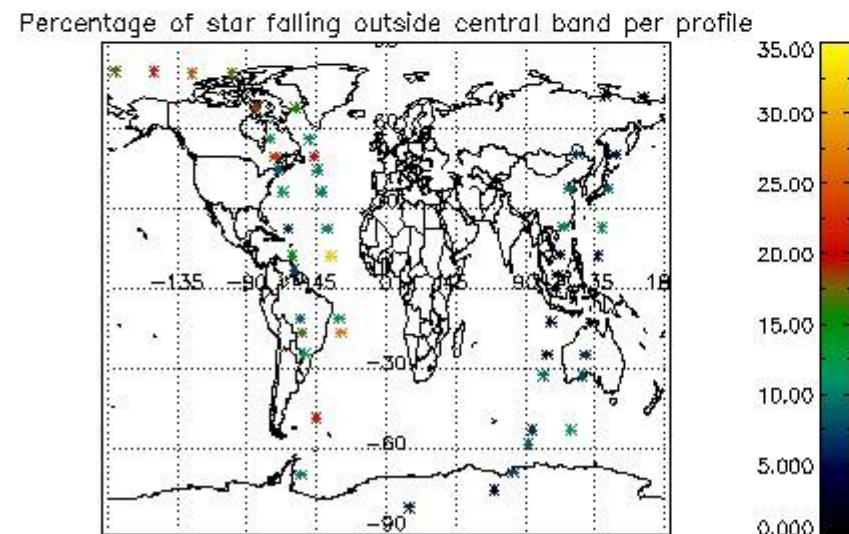
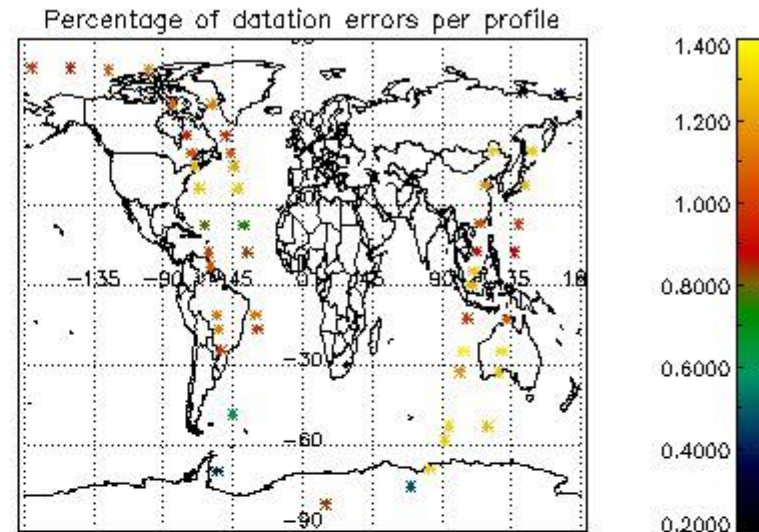
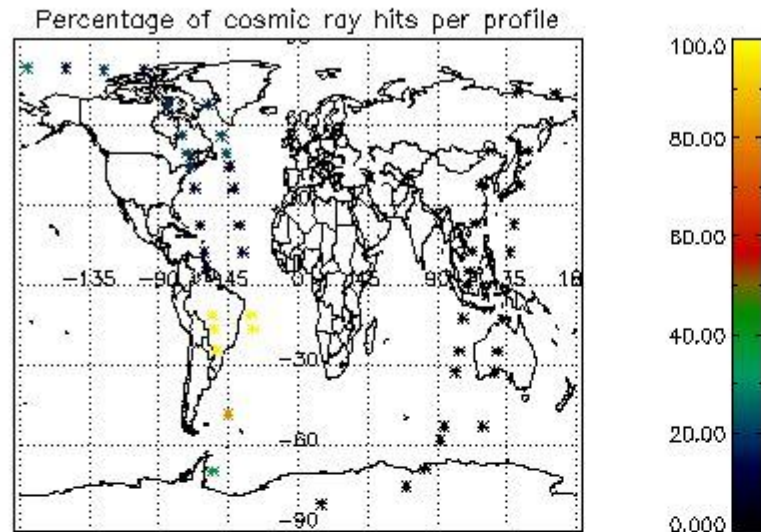
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)

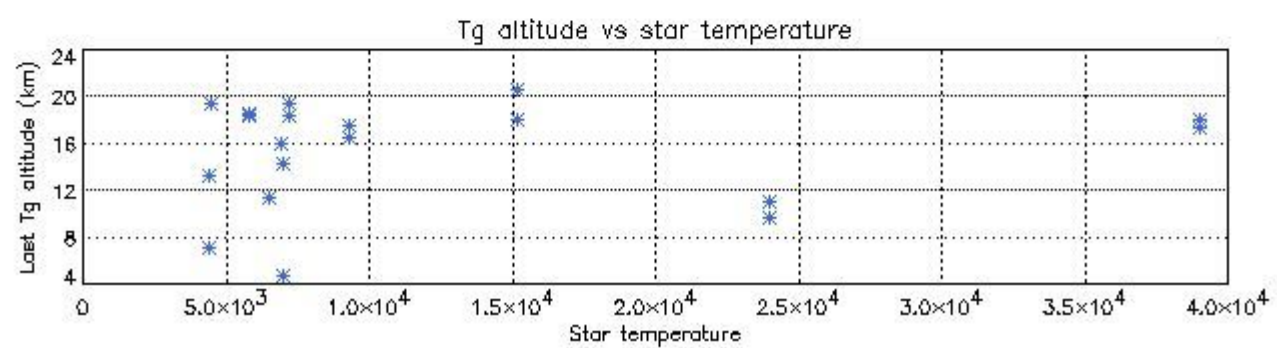
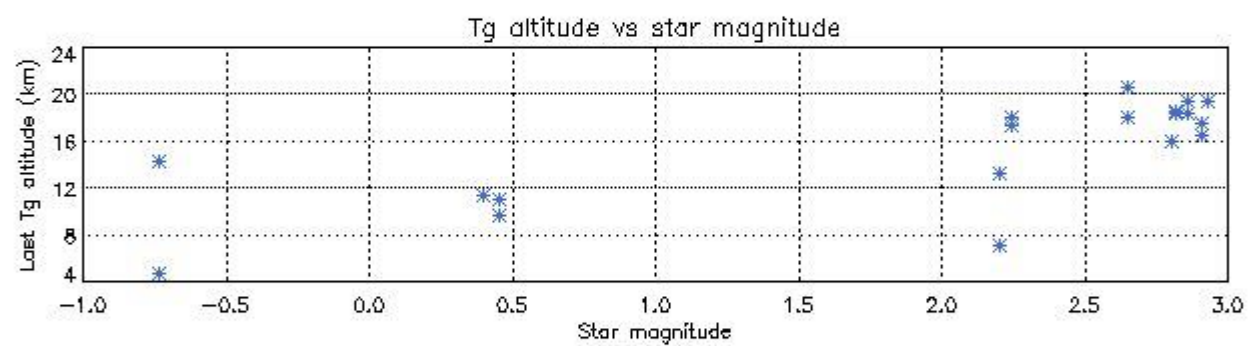
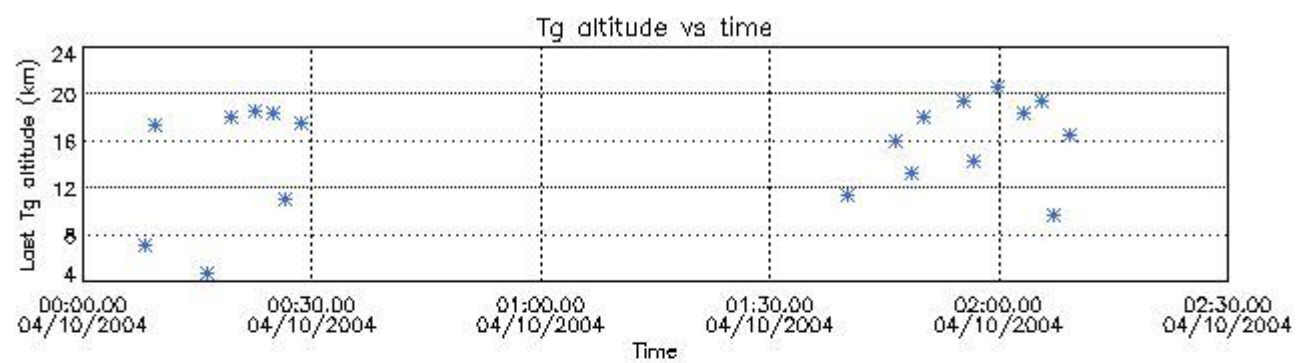
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.201	19.623	41.211
St. deviation:	4.5131	4.6538	36.622
Maximum:	20.555	28.889	83.256
Minimum:	4.6444	9.1824	12.451
Number of data:	19.000	26.000	5.0000

### 6.2 Plot for DARK limb products

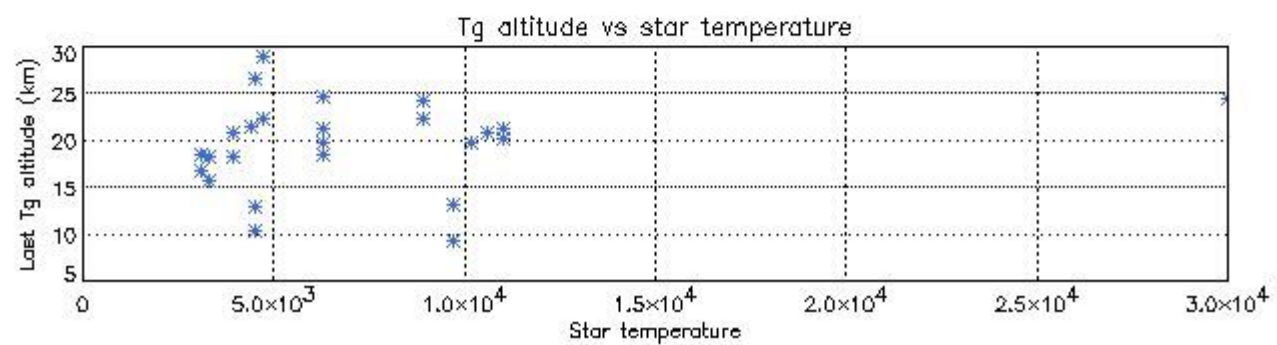
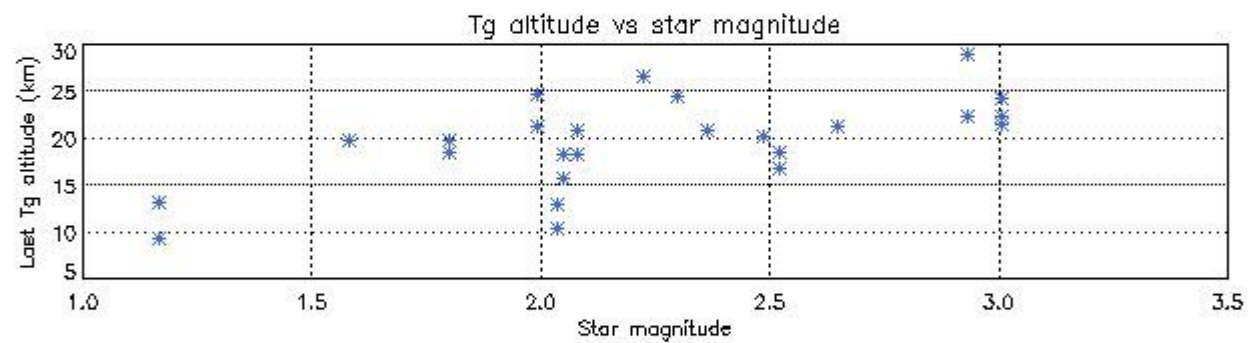
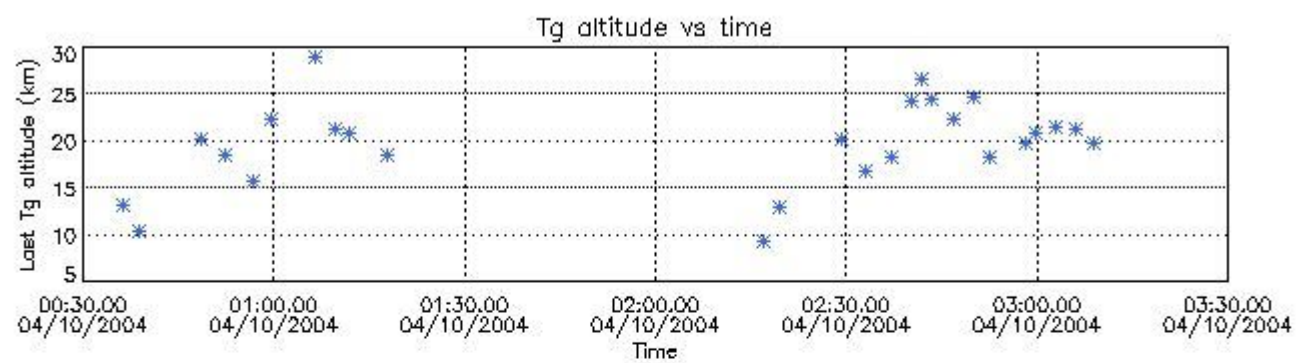


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

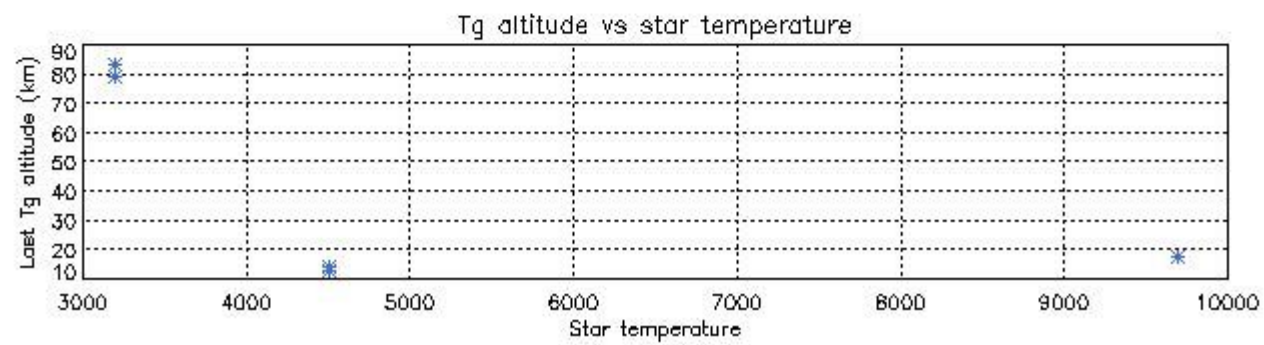
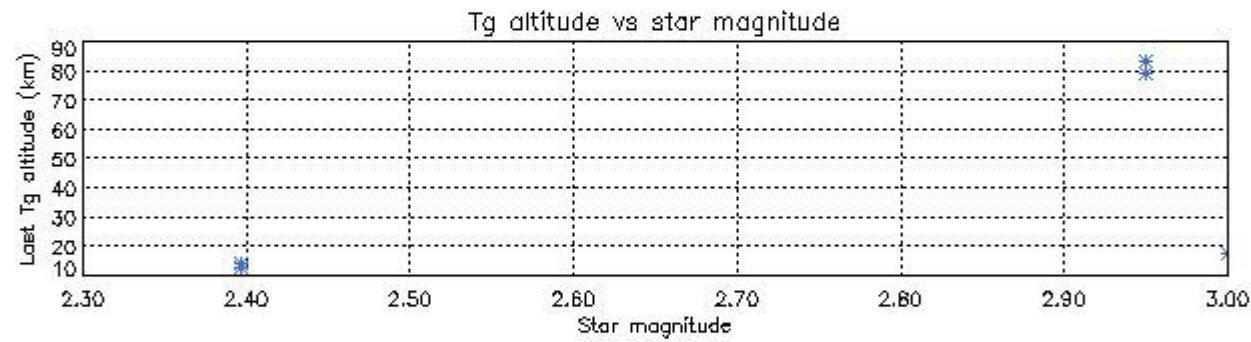
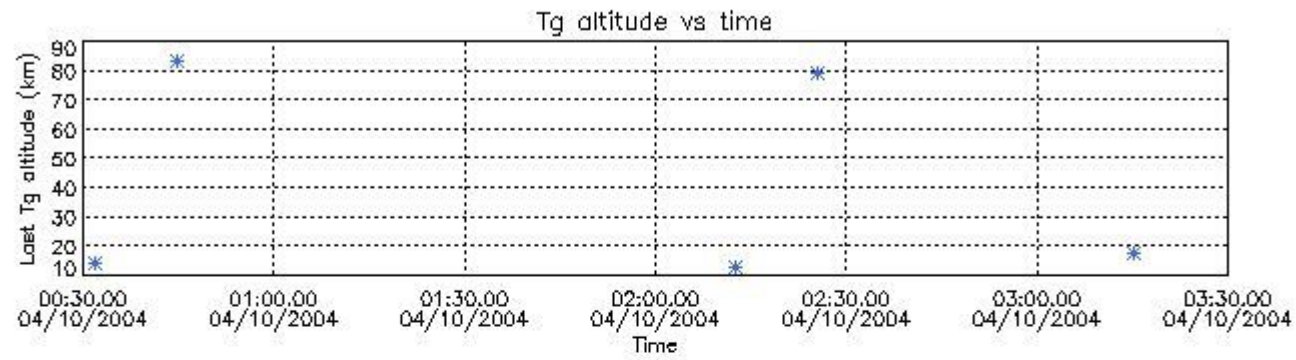
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



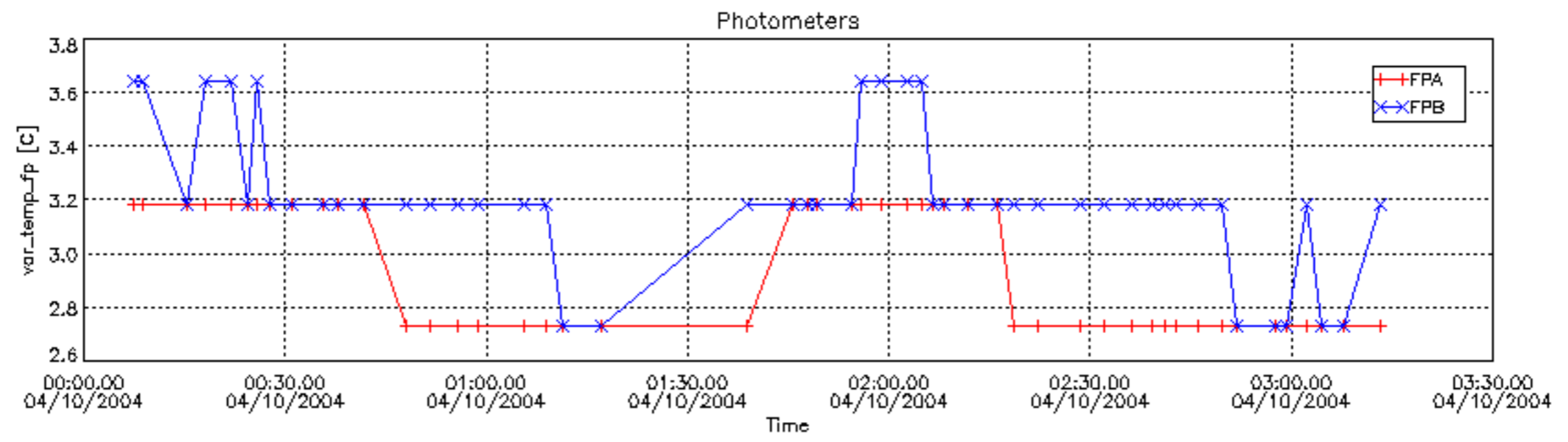
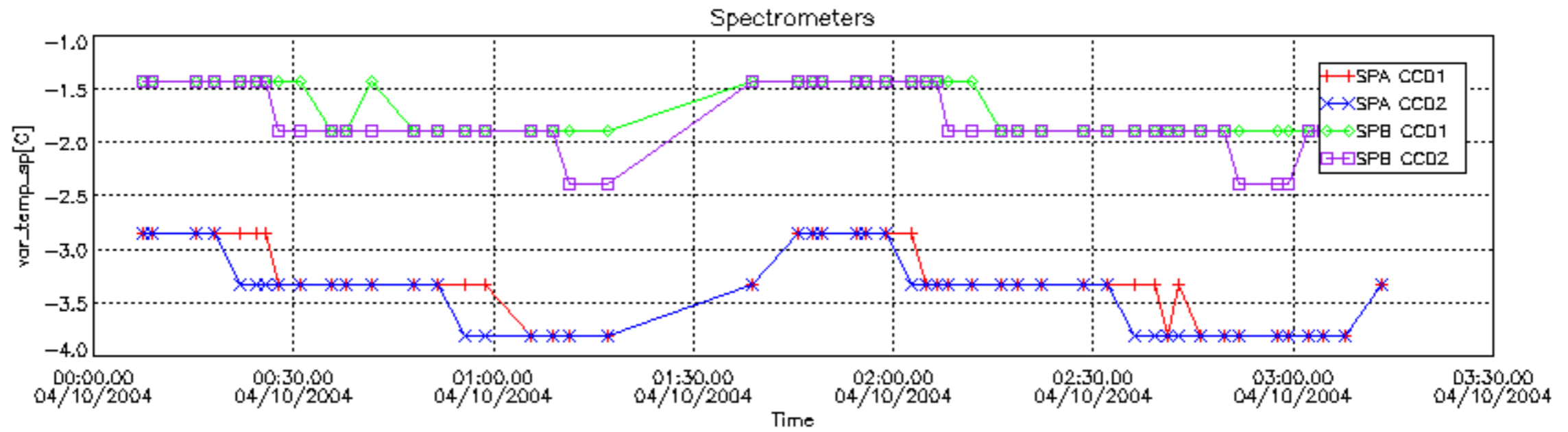
Tangent altitude at which the star is lost

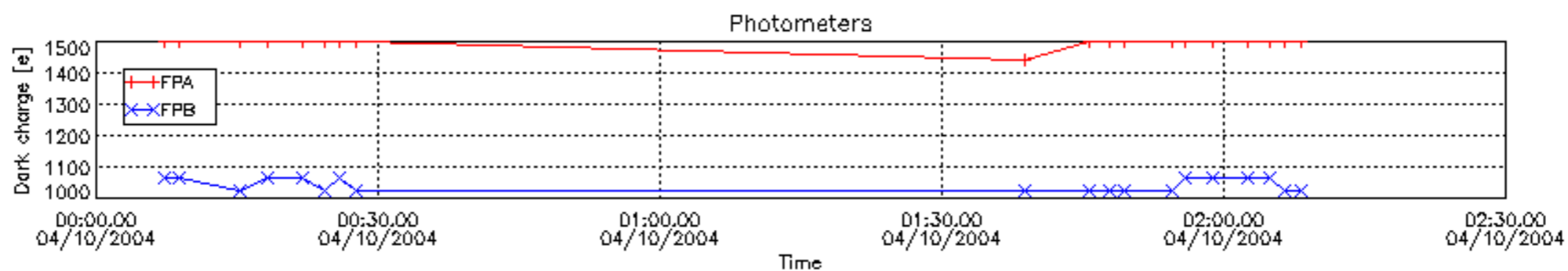
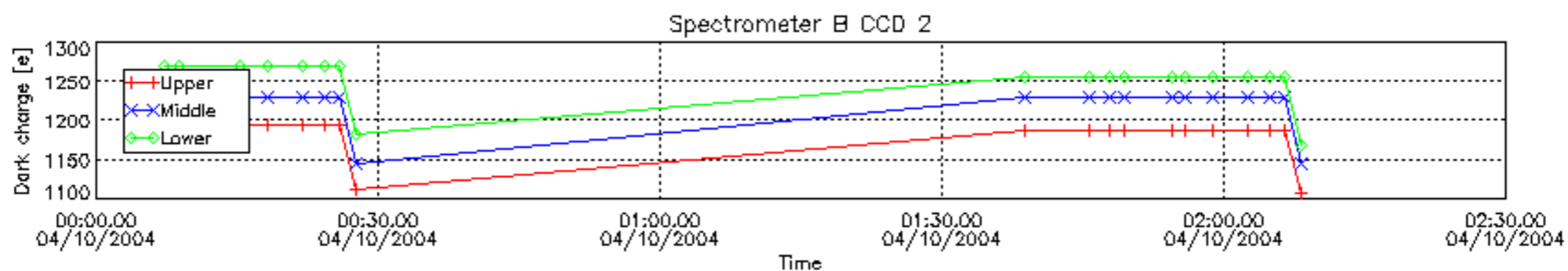
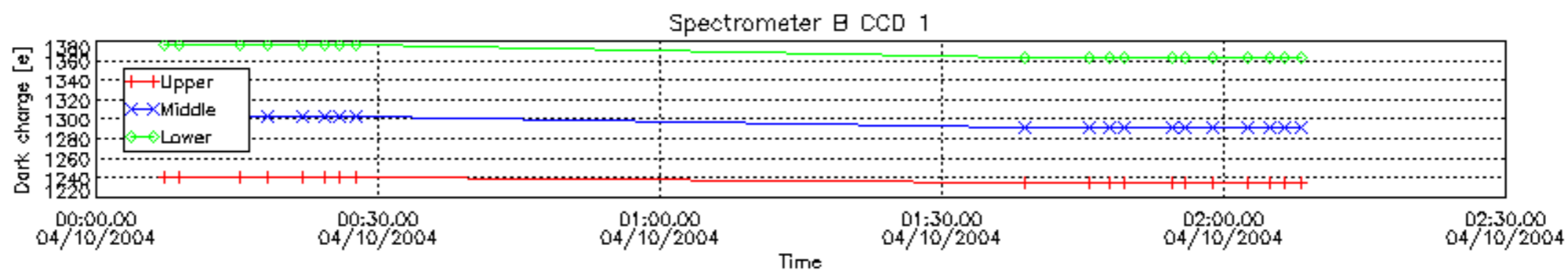
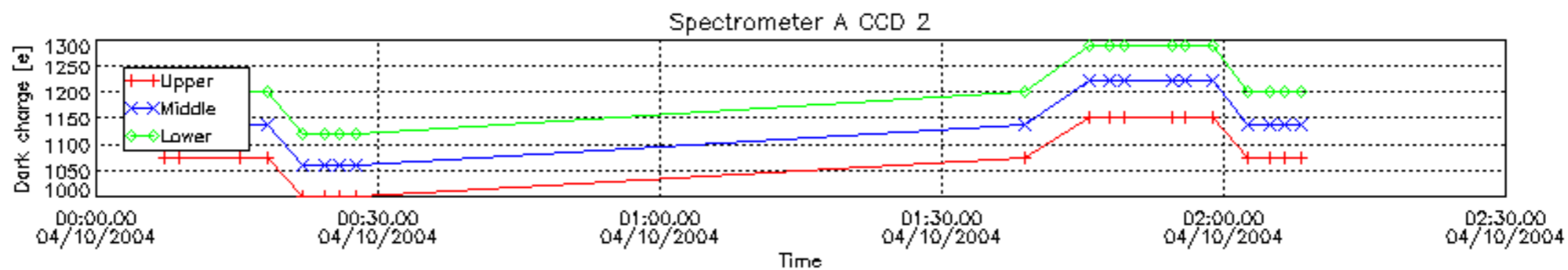
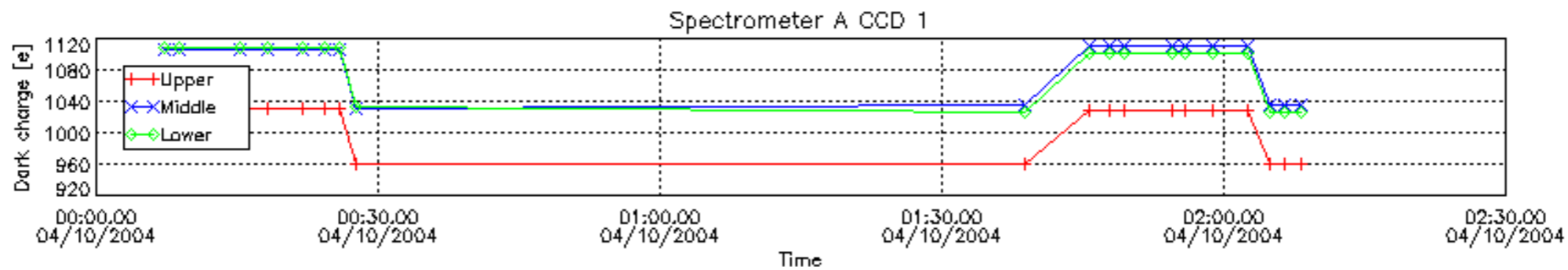


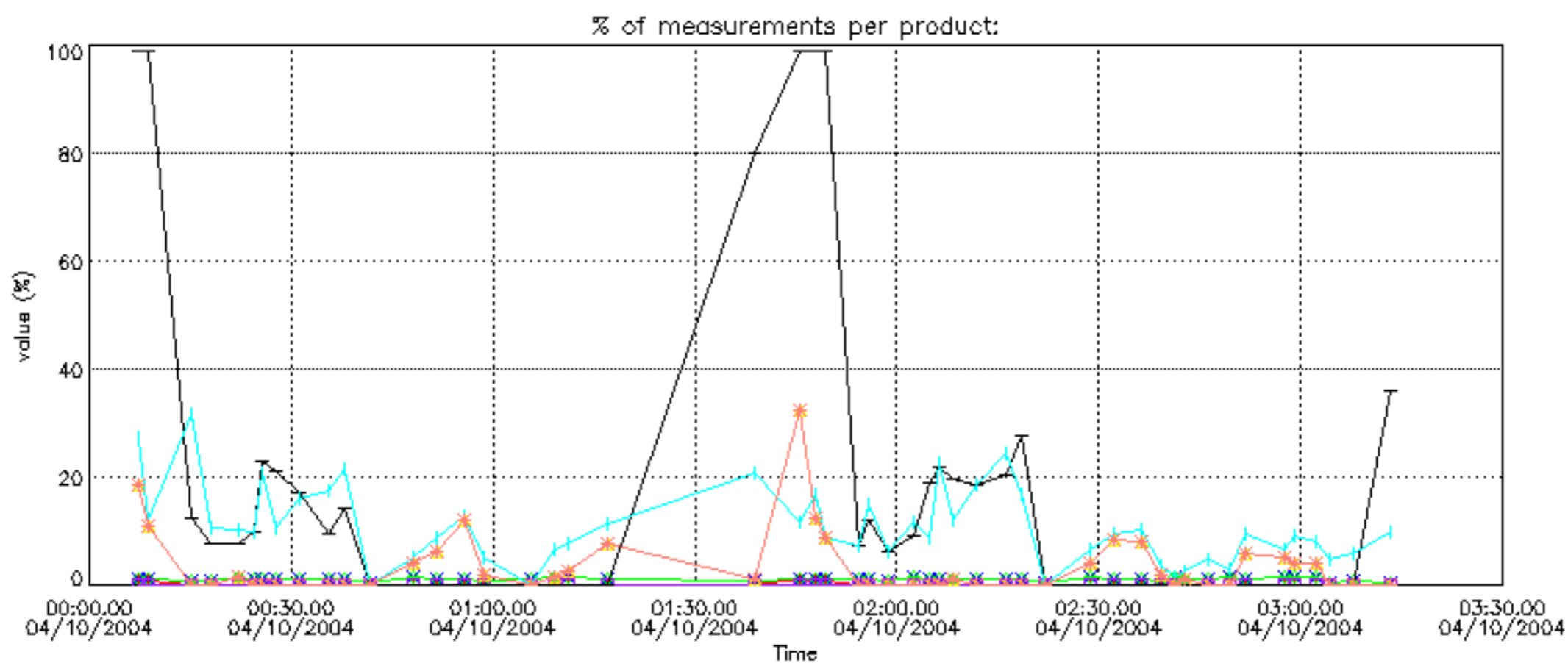
## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1461.7	1446.9	1461.4	1448.0
St. deviation:	6.0654	6.7135	6.0086	6.9234
Maximum:	1643.0	1561.0	1507.0	1507.0
Minimum:	1435.0	1415.0	1434.0	1426.0
Number of data:	24950.	24950.	32300.	32300.

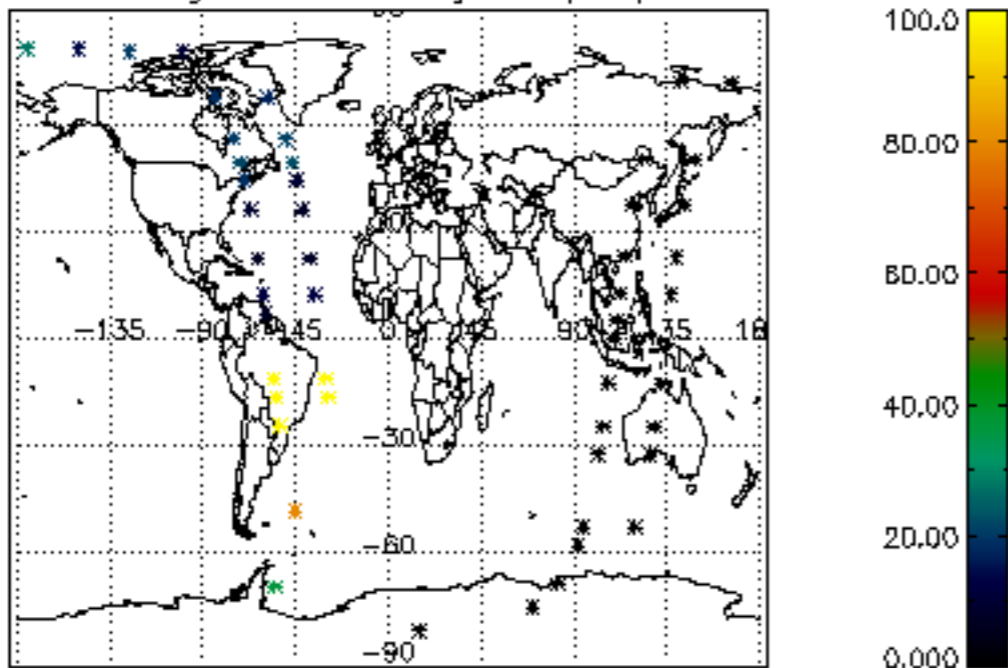




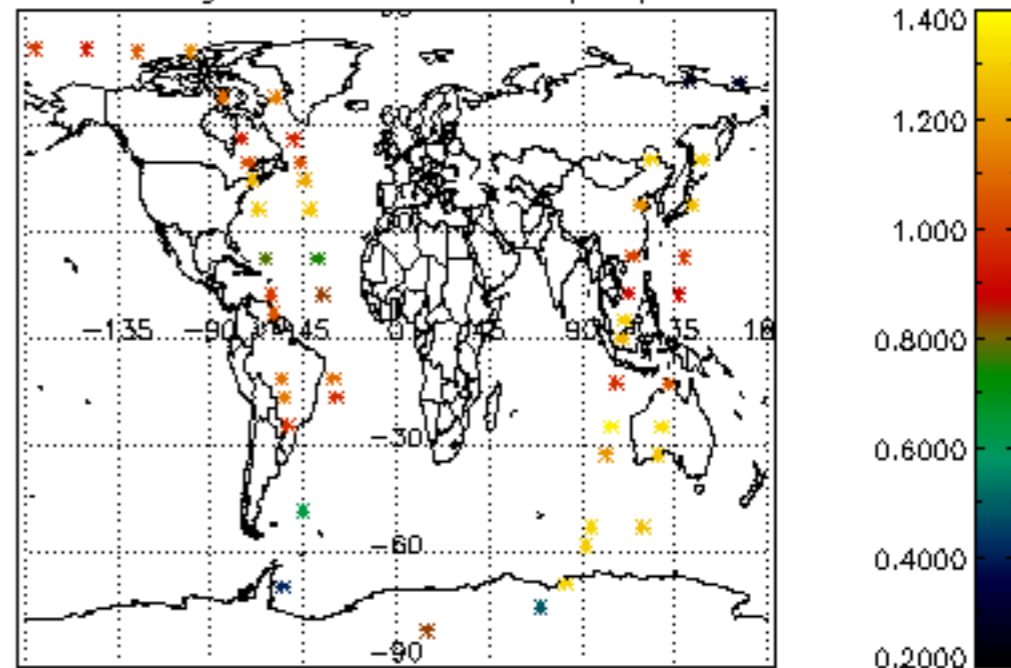




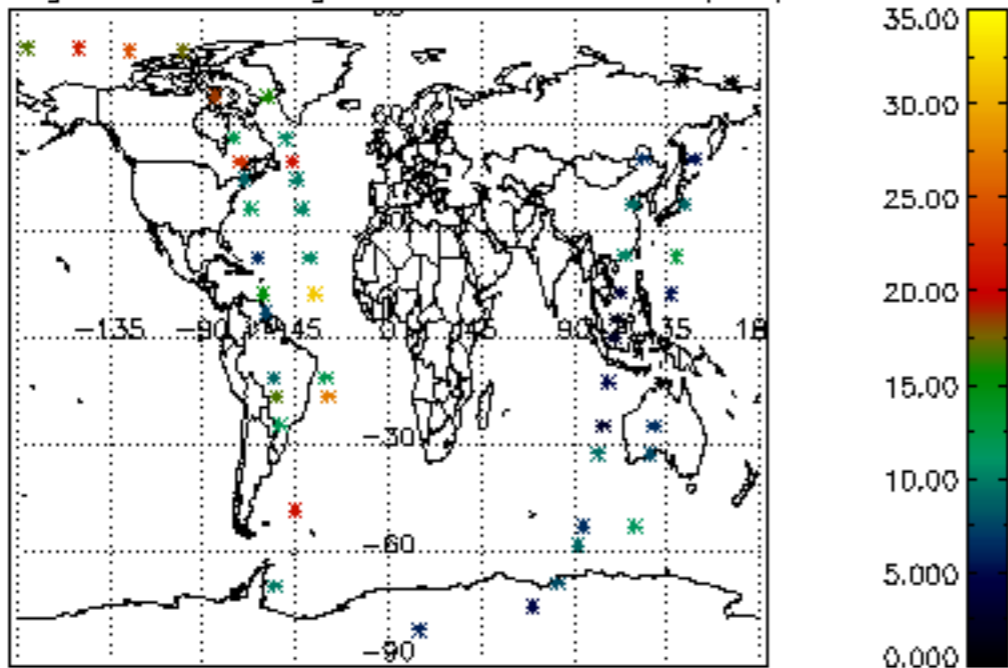
Percentage of cosmic ray hits per profile



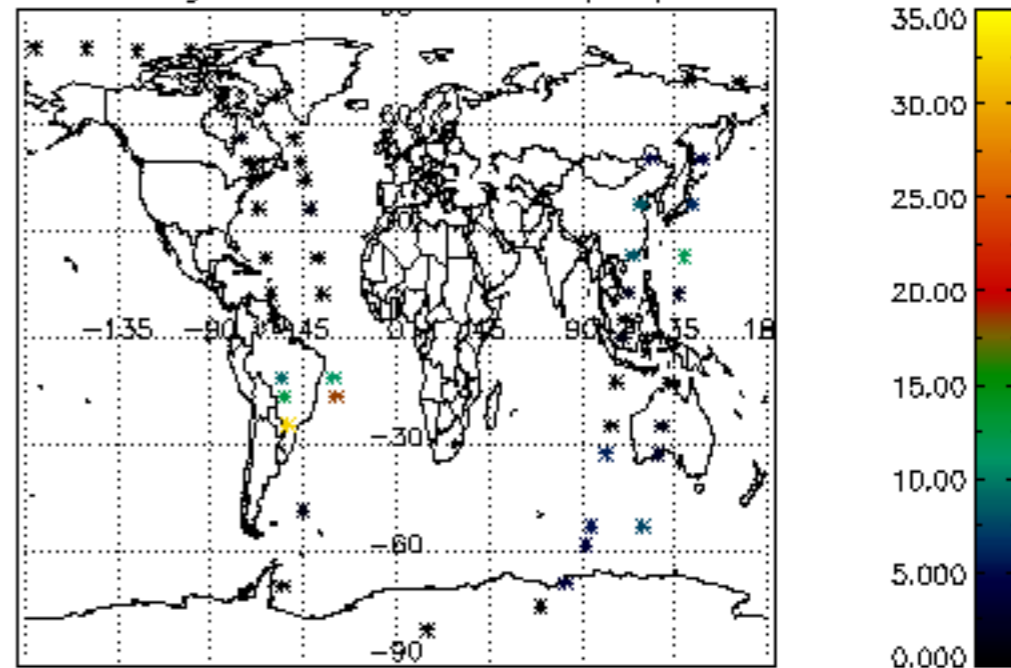
Percentage of datation errors per profile



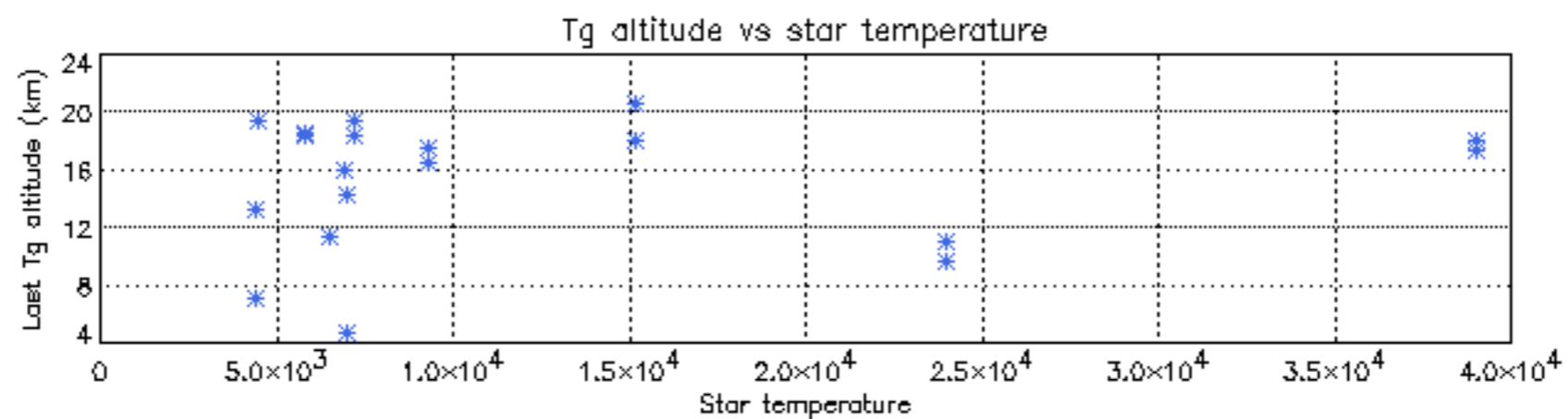
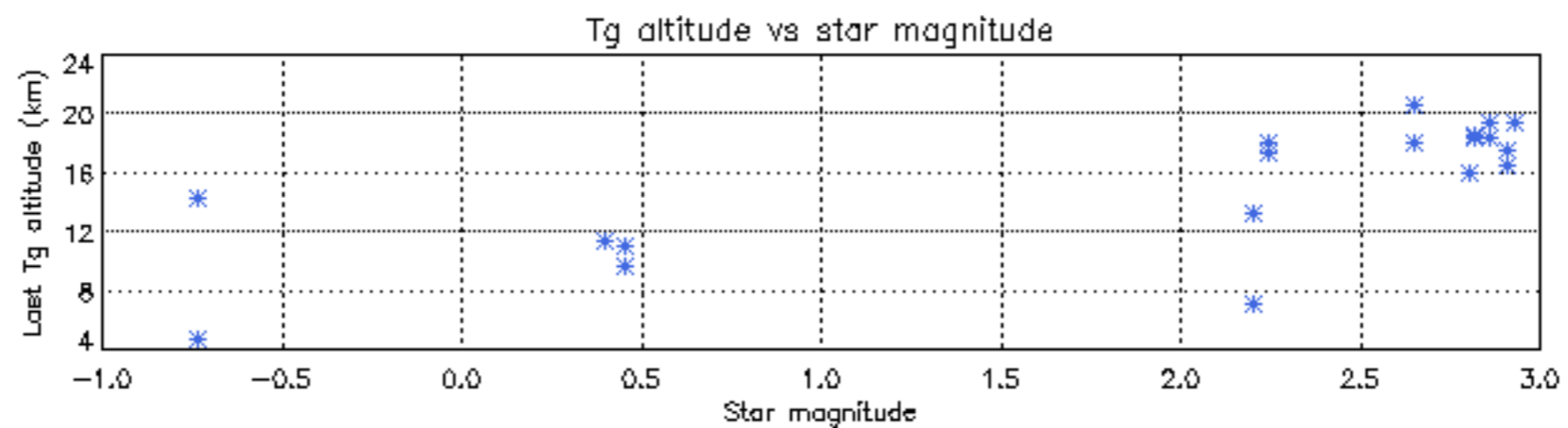
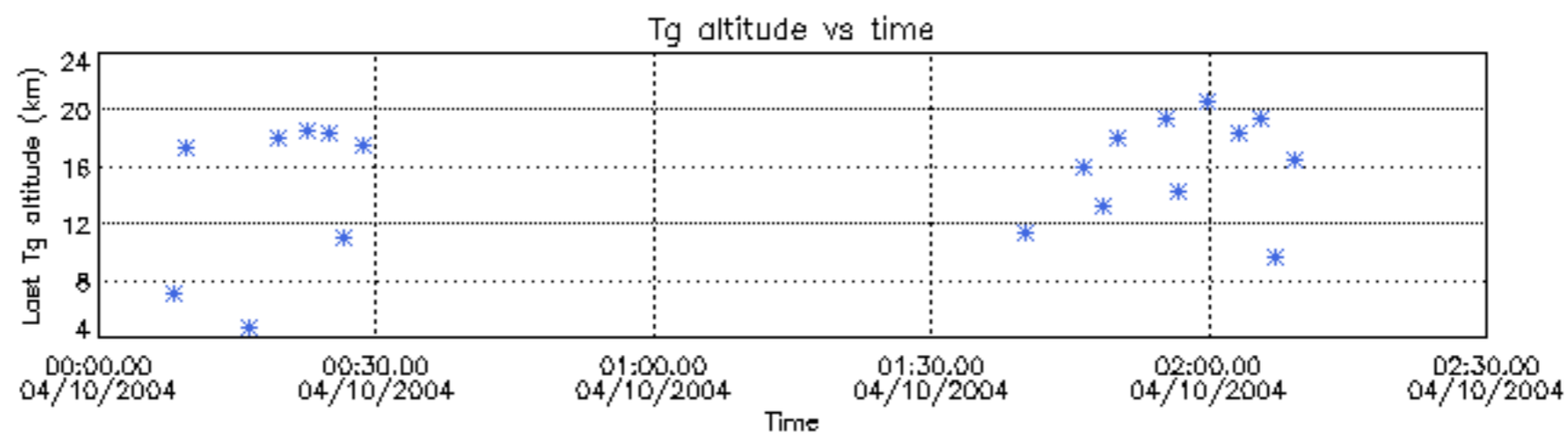
Percentage of star falling outside central band per profile



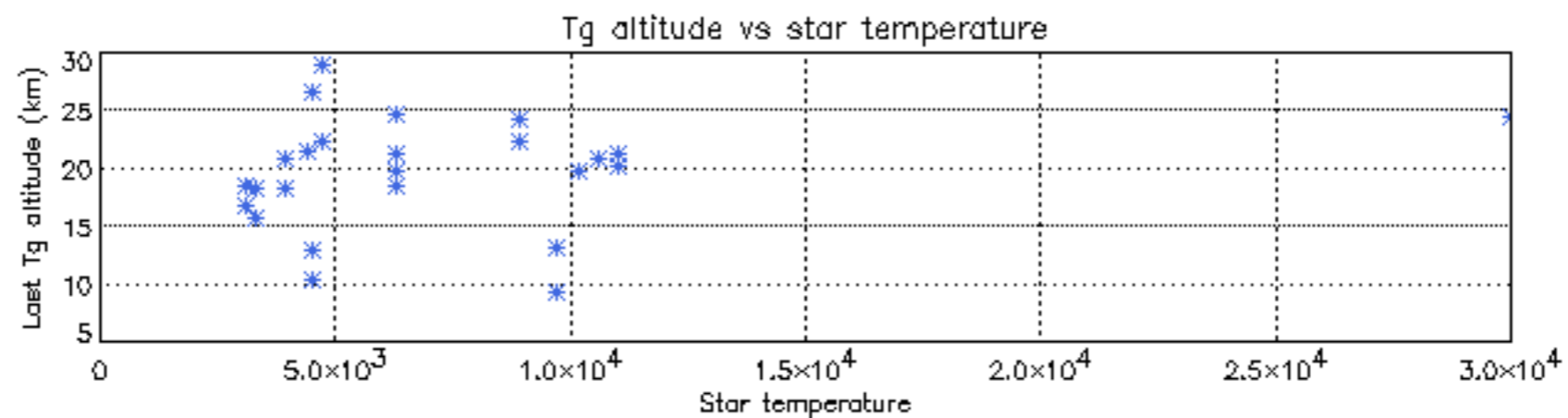
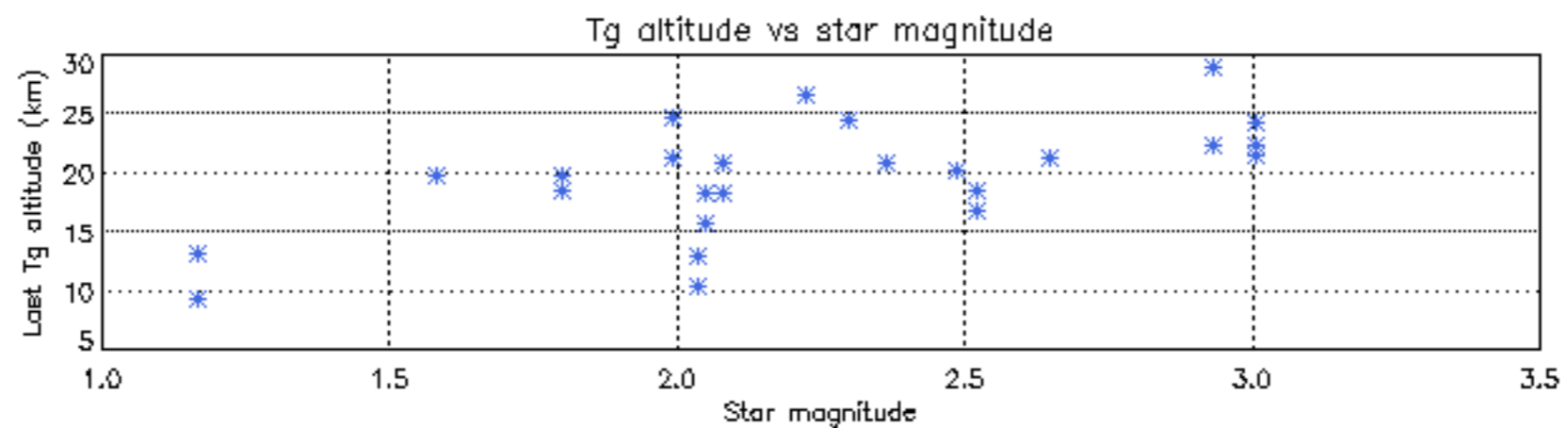
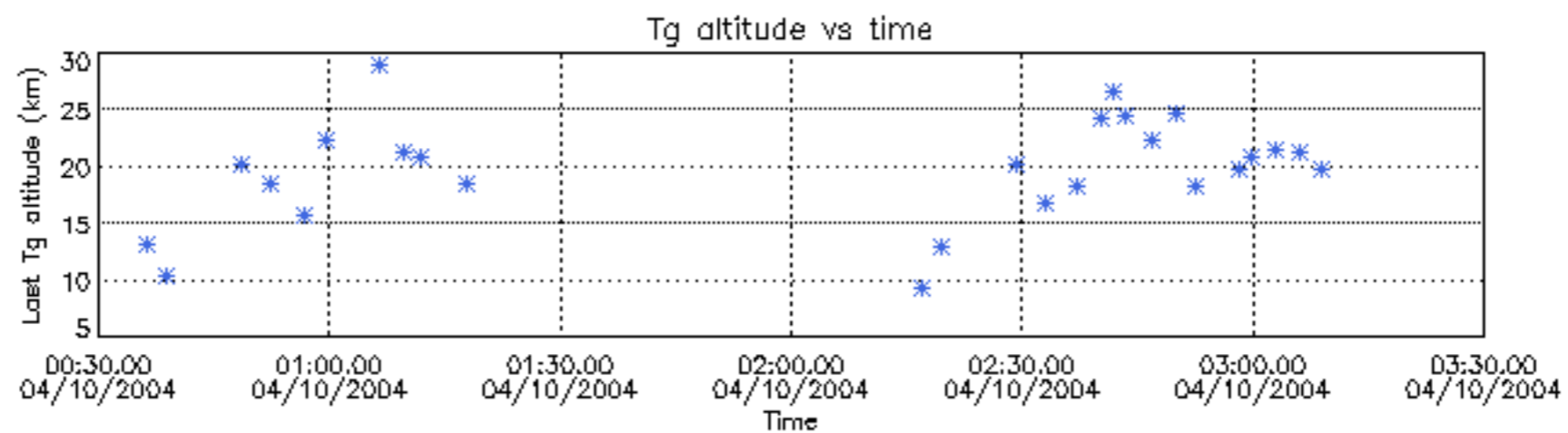
Percentage of saturation errors per profile



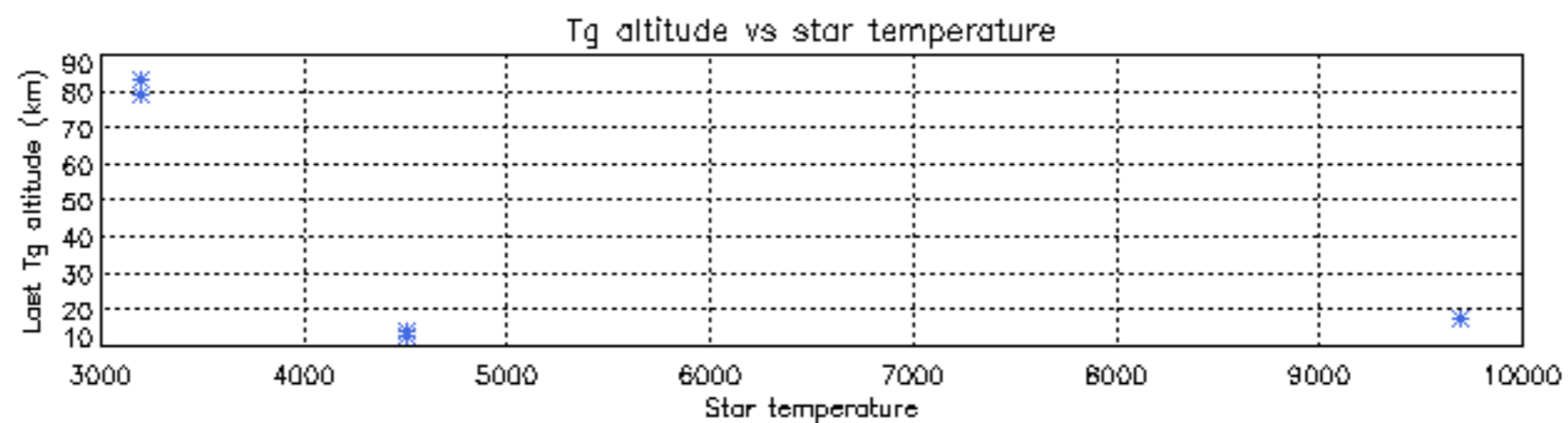
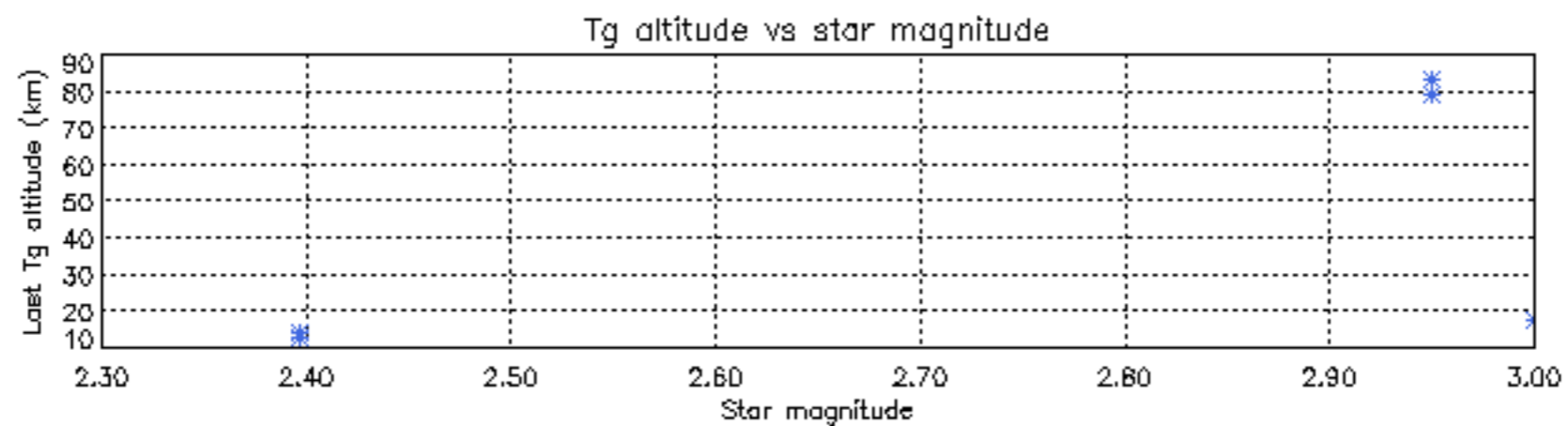
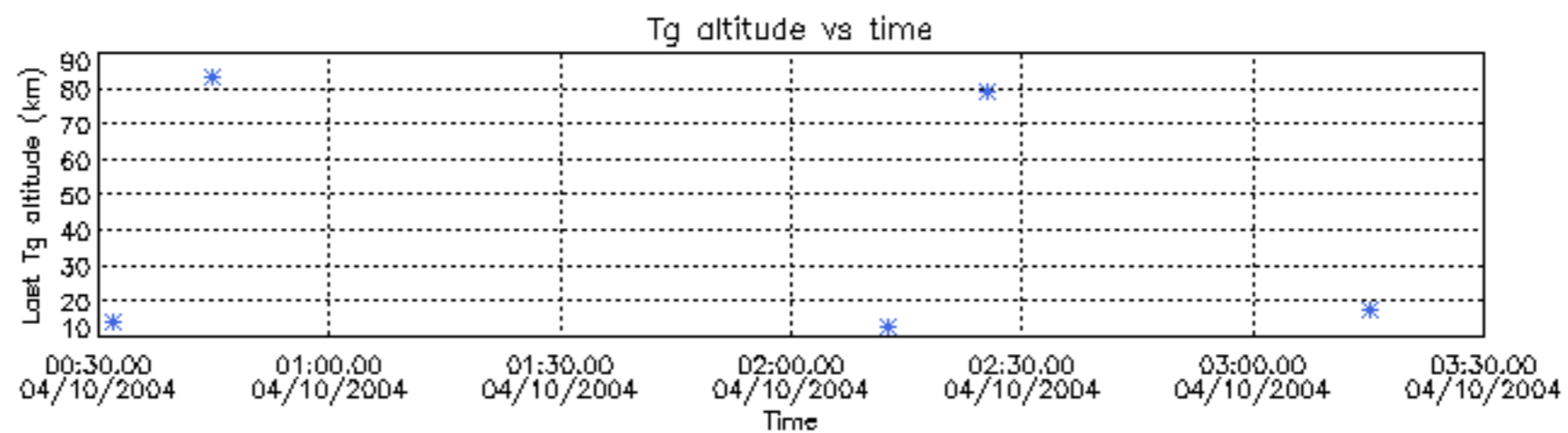
Tangent altitude at which the star is lost



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  
 8; 602.9; 01-OCT-2004 01:56:46; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;13527  
 9; 732.6; 01-OCT-2004 01:58:56; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13527  
 10; 819.5; 01-OCT-2004 02:00:23; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13527  
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 12; 1141.6; 01-OCT-2004 02:05:45; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;13527  
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 17; 2383.4; 01-OCT-2004 02:26:27; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;13527  
 18; 2522.4; 01-OCT-2004 02:28:46; Bright; 65.5; 105; 6Bet Ari ; 2.64; 8900;occ; 131; 0;13527  
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 22; 3263.7; 01-OCT-2004 02:41:07; Bright; 54.5; 160; 23Gam Per ; 2.93; 4700;occ; 109; 0;13527  
 23; 3423.8; 01-OCT-2004 02:43:47; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13527

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 19; 1141.4; 01-OCT-2004 03:46:21; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13528  
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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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 27; 2947.6; 01-OCT-2004 04:16:27; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;13528  
 28; 3026.9; 01-OCT-2004 04:17:46; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13528  
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12; 3024.3; 01-OCT-2004 21:03:43; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;13538
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14; 3427.1; 01-OCT-2004 21:10:26; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13538
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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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 16; 608.4; 04-OCT-2004 05:23:50; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13572  
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 19; 948.2; 04-OCT-2004 05:29:30; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;13572  
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 26; 2626.5; 04-OCT-2004 05:57:28; Bright; 44.5; 53; 43Bet And ; 2.05; 3300;occ; 89; 0;13572  
 27; 2799.0; 04-OCT-2004 06:00:20; Bright; 58.0; 173; 4Bet Tri ; 3.00; 8900;occ; 116; 0;13572  
 28; 2926.3; 04-OCT-2004 06:02:28; Bright; 42.0; 68; 18Alp Cas ; 2.22; 4500;occ; 84; 0;13572  
 29; 3011.8; 04-OCT-2004 06:03:53; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;13572  
 30; 3220.5; 04-OCT-2004 06:07:22; Bright; 52.5; 160; 23Gam Per ; 2.93; 4700;occ; 105; 0;13572  
 31; 3426.5; 04-OCT-2004 06:10:48; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13572  
 32; 3563.7; 04-OCT-2004 06:13:05; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13572

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 15;-1724.7; 04-OCT-2004 14:48:32; Bright; 108.5; 107; 37The Aur ; 2.65; 11000;occ; 217; 0;13577  
 16;-1515.0; 04-OCT-2004 14:52:02; Bright; 66.0; 24; 66Alp Gem ; 1.58; 10200;occ; 132; 0;13577  
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 23; 127.3; 04-OCT-2004 15:19:24; Dark ; 48.0; 161; Tau Pup ; 2.93; 4500;occ; 96; 0;13578  
 24; 211.9; 04-OCT-2004 15:20:49; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;13578  
 25; 389.2; 04-OCT-2004 15:23:46; Dark ; 65.0; 108; Alp Col ; 2.65; 15200;occ; 130; 0;13578  
 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  
 28; 838.9; 04-OCT-2004 15:31:16; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;13578  
 29; 949.8; 04-OCT-2004 15:33:07; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;13578  
 30; 1154.5; 04-OCT-2004 15:36:31; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;13578

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7;-3242.6; 04-OCT-2004 16:03:50; Bright; 57.5; 173; 4Bet Tri ; 3.00; 8900;occ; 115; 0;13578
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13;-2126.6; 04-OCT-2004 16:22:26; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;13578
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15;-1841.1; 04-OCT-2004 16:27:12; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;13578
16;-1725.4; 04-OCT-2004 16:29:08; Bright; 99.0; 107; 37The Aur ; 2.65; 11000;occ; 198; 0;13578
17;-1514.8; 04-OCT-2004 16:32:38; Bright; 64.0; 24; 66Alp Gem ; 1.58; 10200;occ; 128; 0;13578
18;-1178.8; 04-OCT-2004 16:38:14; Dark ; 138.5; 170; 27Eps Gem ; 3.00; 9700;occ; 277; 0;13578
19; -807.8; 04-OCT-2004 16:44:25; Dark ; 79.5; 8; 10Alp CMi ; 0.40; 6500;occ; 159; 0;13578
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21; -272.8; 04-OCT-2004 16:53:20; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;13578
22; -180.3; 04-OCT-2004 16:54:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13578
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3; 391.9; 04-OCT-2004 18:45:01; Dark ; 66.5; 108; Alp Col ; 2.65; 15200;occ; 133; 0;13580
4; 608.4; 04-OCT-2004 18:48:37; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13580
5; 751.1; 04-OCT-2004 18:51:00; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;13580
6; 839.2; 04-OCT-2004 18:52:28; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;13580
7; 953.0; 04-OCT-2004 18:54:22; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13580
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4;-4275.1; 04-OCT-2004 19:07:50; Bright; 216.0; 165; 34Gam Eri ; 2.95; 3200;occ; 432; 0;13580
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7;-3415.6; 04-OCT-2004 19:22:09; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;13580
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9;-2823.4; 04-OCT-2004 19:32:02; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;13580
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16;-1514.6; 04-OCT-2004 19:53:50; Bright; 64.0; 24; 66Alp Gem ; 1.58; 10200;occ; 128; 0;13580
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22; 3.4; 04-OCT-2004 20:19:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13581
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26; 752.0; 04-OCT-2004 20:31:37; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13581
27; 840.2; 04-OCT-2004 20:33:05; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;13581
28; 953.6; 04-OCT-2004 20:34:59; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;13581
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3; -271.4; 04-OCT-2004 21:55:09; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;13581
4; -179.3; 04-OCT-2004 21:56:42; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;13581
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6; 215.3; 04-OCT-2004 22:03:16; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;13582
7; 395.0; 04-OCT-2004 22:06:16; Dark ; 63.0; 108; Alp Col ; 2.65; 15200;occ; 126; 0;13582
8; 609.3; 04-OCT-2004 22:09:50; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;13582
9; 752.4; 04-OCT-2004 22:12:13; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13582
10; 840.6; 04-OCT-2004 22:13:41; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;13582

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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
6;	216.6;	05-OCT-2004	01:24:29;	Dark	;	61.0;	2;	Alp Car	;	-0.74;	7000;occ;	122;	0;	13584
7;	398.3;	05-OCT-2004	01:27:31;	Dark	;	65.5;	108;	Alp Col	;	2.65;	15200;occ;	131;	0;	13584
8;	609.3;	05-OCT-2004	01:31:02;	Dark	;	41.0;	135;	Bet Hyi	;	2.82;	5800;occ;	82;	0;	13584
9;	752.5;	05-OCT-2004	01:33:25;	Dark	;	41.0;	143;	Alp Hyi	;	2.86;	7200;occ;	82;	0;	13584
10;	841.3;	05-OCT-2004	01:34:54;	Dark	;	44.5;	9;	Alp Eri	;	0.45;	24000;occ;	89;	0;	13584
11;	955.7;	05-OCT-2004	01:36:48;	Dark	;	53.0;	157;	The1Eri	;	2.91;	9300;occ;	106;	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
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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	
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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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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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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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17;-1512.6; 05-OCT-2004 14:20:28; Bright; 66.5; 24; 66Alp Gem ; 1.58; 10200;occ; 133; 0;13591
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13;	-2118.6;	23-OCT-2004	14:44:54;	Bright;	54.0;	36;	50Alp UMa	; 1.80;	6300;occ;	108;	0;	13849
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16;	-1391.5;	23-OCT-2004	14:57:01;	Bright;	37.5;	96;	68Del Leo	; 2.56;	9300;occ;	75;	0;	13849
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22;	66.6;	23-OCT-2004	15:21:19;	Dark	; 50.0;	70;	Zet Pup	; 2.25;	39000;occ;	100;	0;	13850
23;	238.7;	23-OCT-2004	15:24:11;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	13850
24;	430.4;	23-OCT-2004	15:27:22;	Dark	; 50.0;	2;	Alp Car	; -0.74;	7000;occ;	100;	0;	13850
25;	634.5;	23-OCT-2004	15:30:47;	Dark	; 76.5;	177;	1Zet CMA	; 3.02;	26000;occ;	153;	0;	13850
26;	833.3;	23-OCT-2004	15:34:05;	Dark	; 39.5;	143;	Alp Hyi	; 2.86;	7200;occ;	79;	0;	13850
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13;	2946.1;	23-OCT-2004	21:11:06;	Bright;	38.0;	76;	27Gam Cas	; 2.30;	30000;occ;	76;	0;	13853
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