

# GOMOS Daily Report 05-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	07OCT2004 05:01:45
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (05OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (06OCT2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

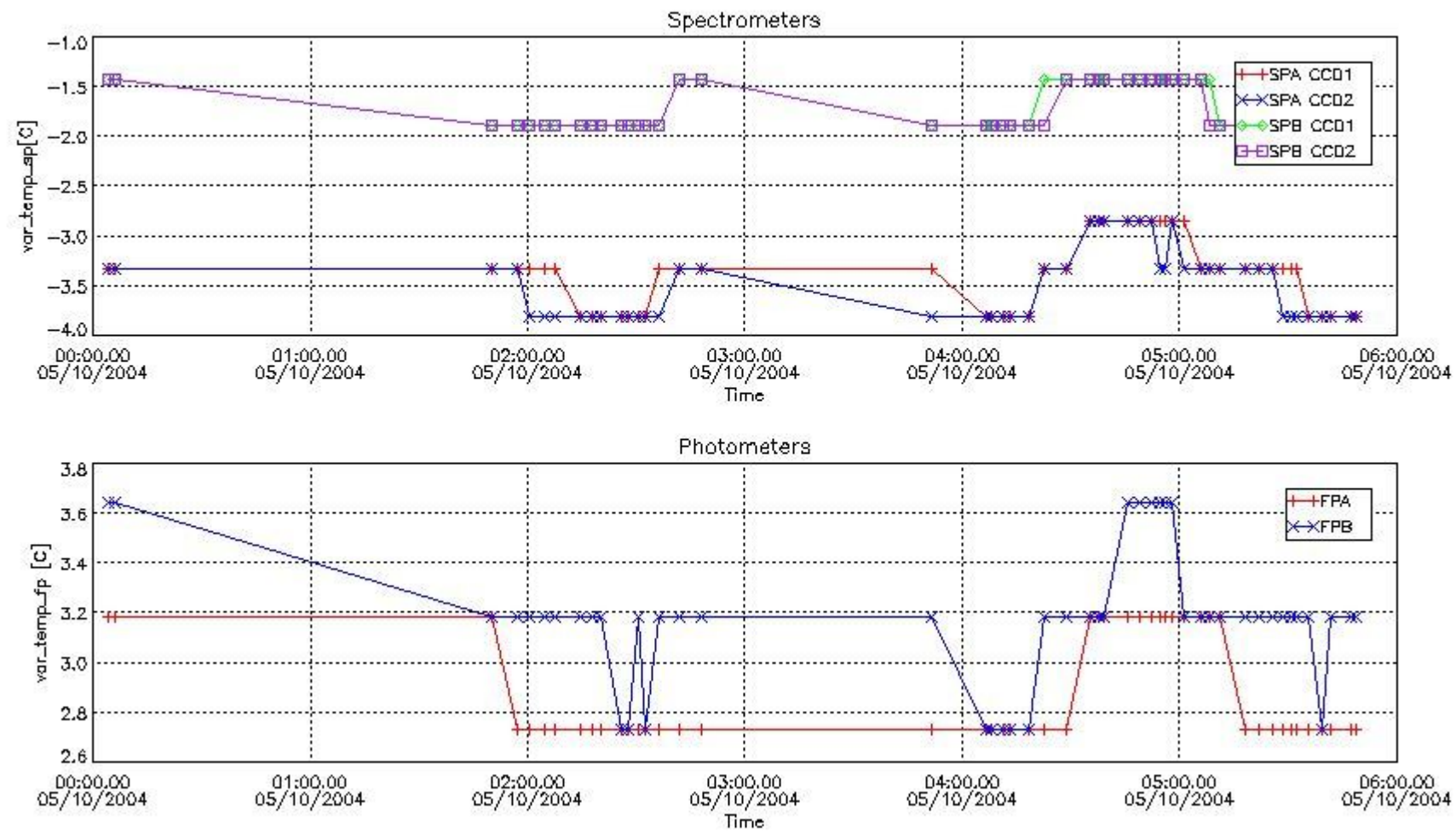
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20041005_000407_000000422031_00002_13583_0011.N1	05-OCT-2004 00:04:07	Bright	42.000	18	24Alp PsA	1.1660	9700.0	84	13583	No
GOM_TRA_1PNPDE20041005_000620_000000492031_00002_13583_0012.N1	05-OCT-2004 00:06:20	Bright	49.000	52	16Bet Cet	2.0370	4500.0	98	13583	No
GOM_TRA_1PNPDE20041005_015007_000002162031_00003_13584_0013.N1	05-OCT-2004 01:50:07	Twilight	216.00	165	34Gam Eri	2.9500	3200.0	432	13584	No
GOM_TRA_1PNPDE20041005_015703_000000402031_00003_13584_0014.N1	05-OCT-2004 01:57:03	Bright	39.500	90	54Alp Peg	2.4870	11000.	79	13584	No
GOM_TRA_1PNPDE20041005_020036_000000422031_00003_13584_0015.N1	05-OCT-2004 02:00:36	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	13584	No
GOM_TRA_1PNPDE20041005_020431_000000492031_00003_13584_0016.N1	05-OCT-2004 02:04:31	Bright	49.000	53	43Bet And	2.0480	3300.0	98	13584	No
GOM_TRA_1PNPDE20041005_020719_000000552031_00003_13584_0017.N1	05-OCT-2004 02:07:19	Bright	55.000	173	4Bet Tri	3.0040	8900.0	110	13584	No
GOM_TRA_1PNPDE20041005_021422_000000522031_00003_13584_0018.N1	05-OCT-2004 02:14:22	Bright	52.000	160	23Gam Per	2.9300	4700.0	104	13584	No
GOM_TRA_1PNPDE20041005_021758_000000392031_00003_13584_0019.N1	05-OCT-2004 02:17:58	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13584	No
GOM_TRA_1PNPDE20041005_022017_000000422031_00003_13584_0000.N1	05-OCT-2004 02:20:17	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	13584	No
GOM_TRA_1PNPDE20041005_022602_000000392031_00003_13584_0001.N1	05-OCT-2004 02:26:02	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	13584	No
GOM_TRA_1PNPDE20041005_022734_000000522031_00003_13584_0002.N1	05-OCT-2004 02:27:34	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	13584	No
GOM_TRA_1PNPDE20041005_023048_000000382031_00003_13584_0003.N1	05-OCT-2004 02:30:48	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	13584	No
GOM_TRA_1PNPDE20041005_023240_000001032031_00003_13584_0004.N1	05-OCT-2004 02:32:40	Bright	103.00	107	37The Aur	2.6490	11000.	206	13584	No
GOM_TRA_1PNPDE20041005_023615_000000652031_00003_13584_0005.N1	05-OCT-2004 02:36:15	Bright	65.000	24	66Alp Gem	1.5800	10200.	130	13584	No
GOM_TRA_1PNPDE20041005_024158_000001452031_00003_13584_0006.N1	05-OCT-2004 02:41:58	Twilight	145.00	170	27Eps Gem	3.0000	9700.0	290	13584	No
GOM_TRA_1PNPDE20041005_024809_000000802031_00003_13584_0007.N1	05-OCT-2004 02:48:09	Dark	79.500	8	10Alp CMi	0.40000	6500.0	159	13584	No
GOM_TRA_1PNPDE20041005_035140_000000382031_00004_13585_0025.N1	05-OCT-2004 03:51:40	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	13585	No
GOM_TRA_1PNPDE20041005_040638_000000392031_00004_13585_0000.N1	05-OCT-2004 04:06:38	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	13585	No
GOM_TRA_1PNPDE20041005_040810_000000382031_00004_13585_0001.N1	05-OCT-2004 04:08:10	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	13585	No
GOM_TRA_1PNPDE20041005_041125_000000362031_00004_13585_0002.N1	05-OCT-2004 04:11:25	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	13585	No
GOM_TRA_1PNPDE20041005_041316_000001032031_00004_13585_0003.N1	05-OCT-2004 04:13:16	Bright	102.50	107	37The Aur	2.6490	11000.	205	13585	No
GOM_TRA_1PNPDE20041005_041828_000000742031_00004_13585_0004.N1	05-OCT-2004 04:18:28	Bright	73.500	17	78Bet Gem	1.1610	4500.0	147	13585	No
GOM_TRA_1PNPDE20041005_042235_000001442031_00004_13585_0005.N1	05-OCT-2004 04:22:35	Twilight	144.00	170	27Eps Gem	3.0000	9700.0	288	13585	No
GOM_TRA_1PNPDE20041005_042846_000000832031_00004_13585_0006.N1	05-OCT-2004 04:28:46	Dark	83.000	8	10Alp CMi	0.40000	6500.0	166	13585	No
GOM_TRA_1PNPDE20041005_043529_000000512031_00004_13585_0007.N1	05-OCT-2004 04:35:29	Dark	50.500	132	15Rho Pup	2.8030	6900.0	101	13585	No
GOM_TRA_1PNPDE20041005_043735_000000462031_00004_13585_0008.N1	05-OCT-2004 04:37:35	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	13585	No
GOM_TRA_1PNPDE20041005_043908_000000472031_00004_13585_0009.N1	05-OCT-2004 04:39:08	Dark	47.000	70	Zet Pup	2.2460	39000.	94	13585	No
GOM_TRA_1PNPDE20041005_044543_000000602031_00005_13586_0010.N1	05-OCT-2004 04:45:43	Dark	59.500	2	Alp Car	-0.73600	7000.0	119	13586	No
GOM_TRA_1PNPDE20041005_044846_000000652031_00005_13586_0011.N1	05-OCT-2004 04:48:46	Dark	65.000	108	Alp Col	2.6520	15200.	130	13586	No
GOM_TRA_1PNPDE20041005_045214_000000392031_00005_13586_0012.N1	05-OCT-2004 04:52:14	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13586	No
GOM_TRA_1PNPDE20041005_045439_000000412031_00005_13586_0013.N1	05-OCT-2004 04:54:39	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	13586	No
GOM_TRA_1PNPDE20041005_045607_000000422031_00005_13586_0014.N1	05-OCT-2004 04:56:07	Dark	42.000	9	Alp Eri	0.45300	24000.	84	13586	No
GOM_TRA_1PNPDE20041005_045802_000000532031_00005_13586_0015.N1	05-OCT-2004 04:58:02	Dark	52.500	157	The1Eri	2.9060	9300.0	105	13586	No
GOM_TRA_1PNPDE20041005_050122_000000512031_00005_13586_0016.N1	05-OCT-2004 05:01:22	Twilight	50.500	84	Alp Phe	2.3970	4500.0	101	13586	No
GOM_TRA_1PNPDE20041005_050555_000000442031_00005_13586_0017.N1	05-OCT-2004 05:05:55	Bright	43.500	18	24Alp PsA	1.1660	9700.0	87	13586	No
GOM_TRA_1PNPDE20041005_050809_000000482031_00005_13586_0018.N1	05-OCT-2004 05:08:09	Bright	48.000	52	16Bet Cet	2.0370	4500.0	96	13586	No
GOM_TRA_1PNPDE20041005_051115_000002162031_00005_13586_0019.N1	05-OCT-2004 05:11:15	Twilight	216.00	165	34Gam Eri	2.9500	3200.0	432	13586	No
GOM_TRA_1PNPDE20041005_051816_000000372031_00005_13586_0020.N1	05-OCT-2004 05:18:16	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	13586	No
GOM_TRA_1PNPDE20041005_052151_000000382031_00005_13586_0021.N1	05-OCT-2004 05:21:51	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	13586	No
GOM_TRA_1PNPDE20041005_052543_000000442031_00005_13586_0022.N1	05-OCT-2004 05:25:43	Bright	44.000	53	43Bet And	2.0480	3300.0	88	13586	No
GOM_TRA_1PNPDE20041005_052829_000000552031_00005_13586_0023.N1	05-OCT-2004 05:28:29	Bright	54.500	173	4Bet Tri	3.0040	8900.0	109	13586	No
GOM_TRA_1PNPDE20041005_053047_000000422031_00005_13586_0024.N1	05-OCT-2004 05:30:47	Bright	42.000	68	18Alp Cas	2.2250	4500.0	84	13586	No
GOM_TRA_1PNPDE20041005_053217_000000382031_00005_13586_0025.N1	05-OCT-2004 05:32:17	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	13586	No
GOM_TRA_1PNPDE20041005_053532_000000512031_00005_13586_0026.N1	05-OCT-2004 05:35:32	Bright	50.500	160	23Gam Per	2.9300	4700.0	101	13586	No
GOM_TRA_1PNPDE20041005_053911_000000392031_00005_13586_0027.N1	05-OCT-2004 05:39:11	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13586	No
GOM_TRA_1PNPDE20041005_054132_000000392031_00005_13586_0028.N1	05-OCT-2004 05:41:32	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	13586	No
GOM_TRA_1PNPDE20041005_054715_000000402031_00005_13586_0000.N1	05-OCT-2004 05:47:15	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13586	No
GOM_TRA_1PNPDE20041005_054846_000000392031_00005_13586_0001.N1	05-OCT-2004 05:48:46	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	13586	No

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



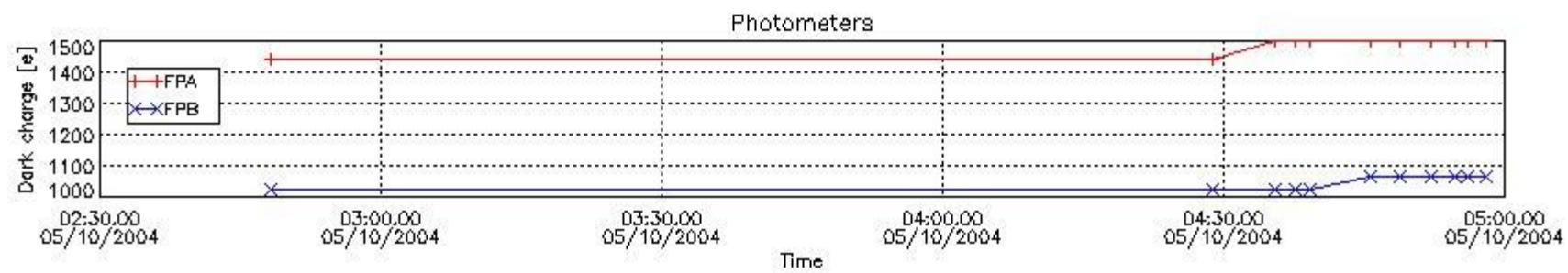
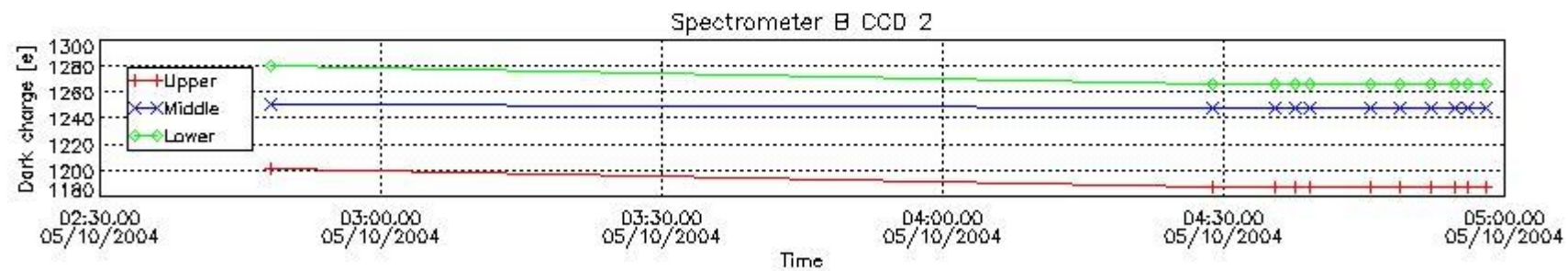
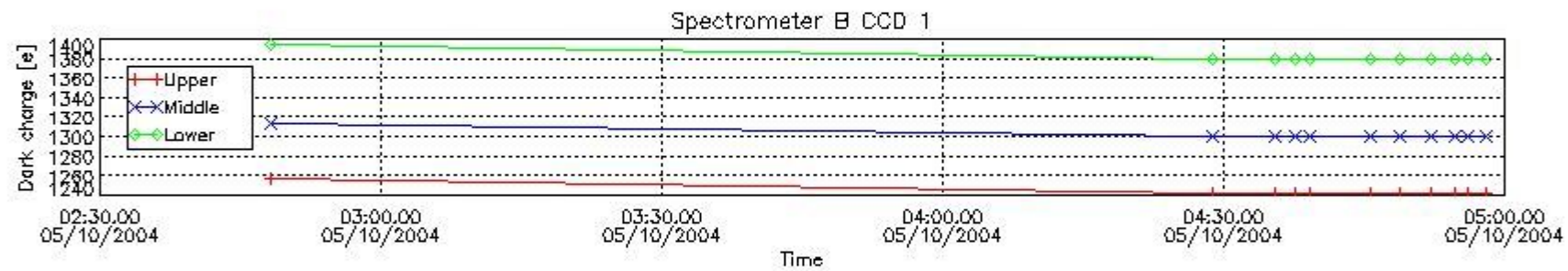
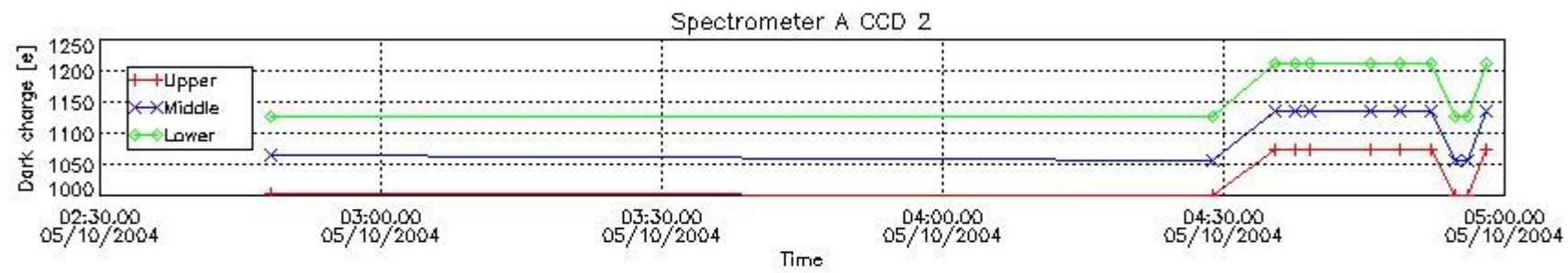
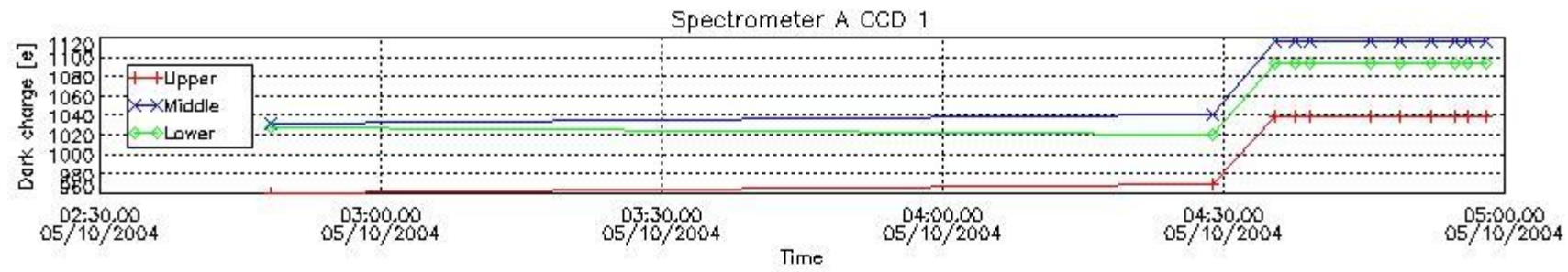
### 4. Overview of dark signal processing per product

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

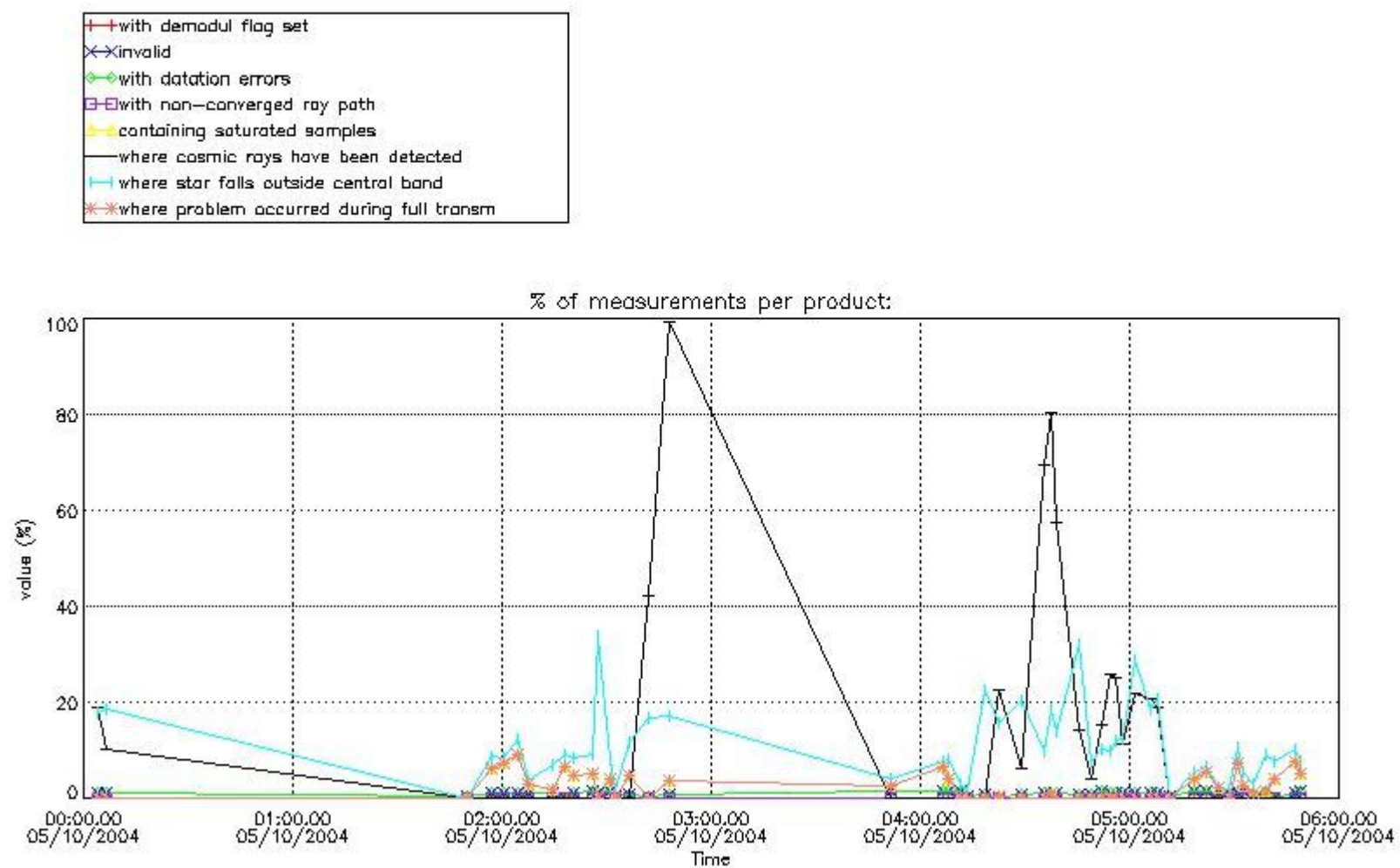
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

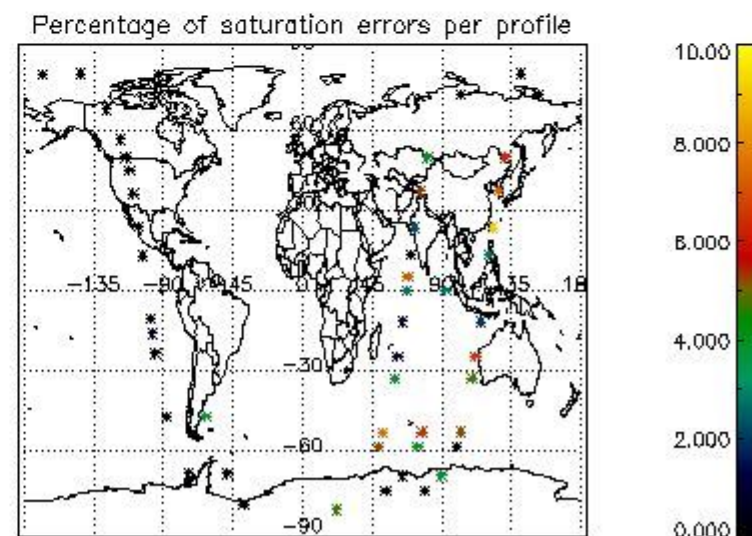
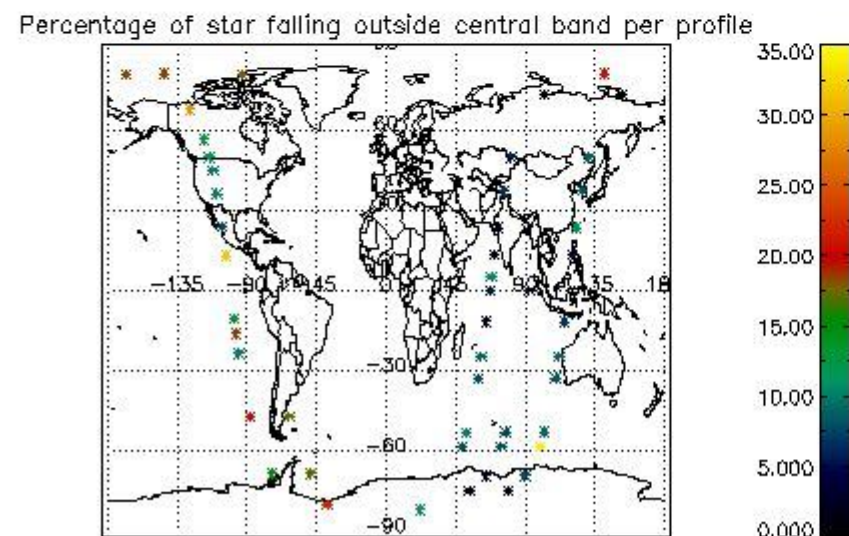
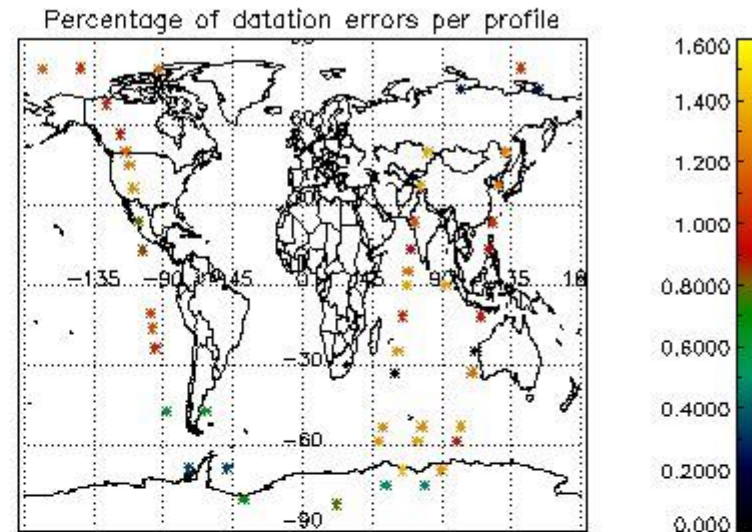
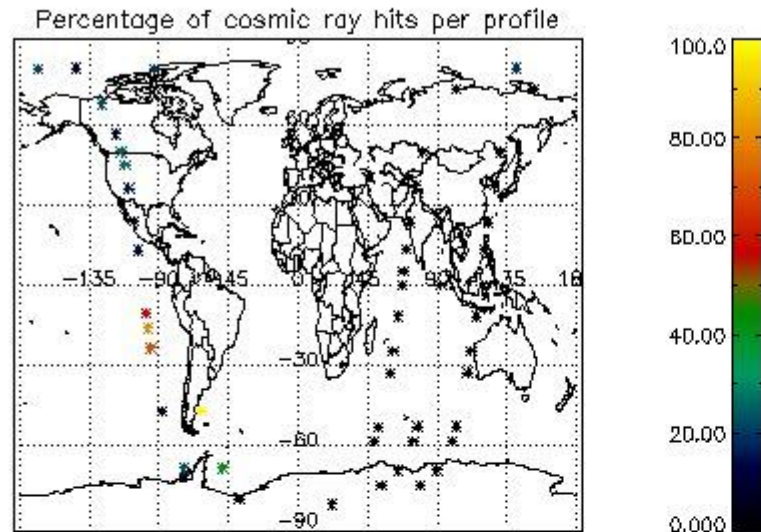


At least one measurement with demodulation flag set:	8.16327 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



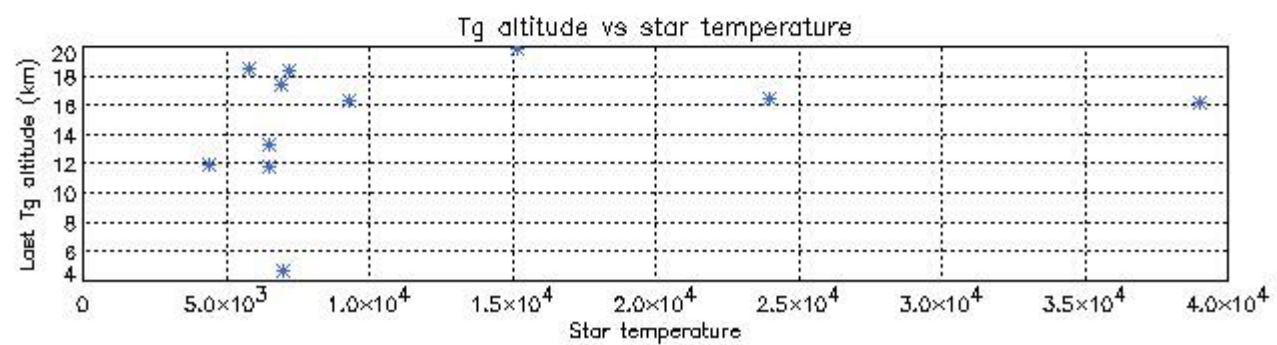
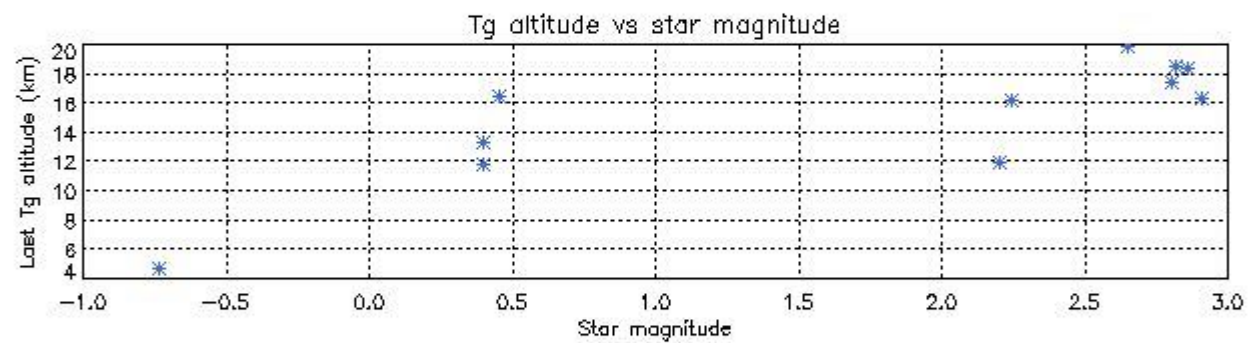
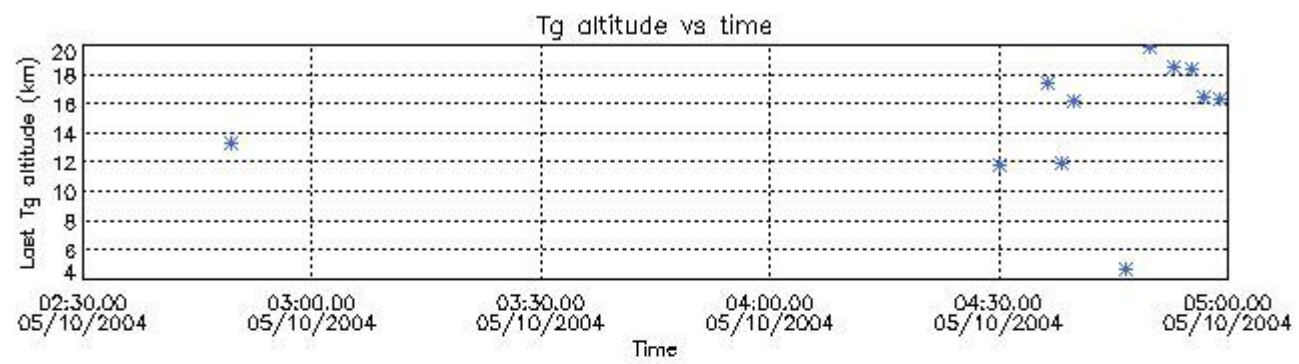
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.979	19.077	29.018
St. deviation:	4.3152	4.7098	24.242
Maximum:	19.904	25.689	56.691
Minimum:	4.7252	4.7918	6.5597
Number of data:	11.000	33.000	5.0000

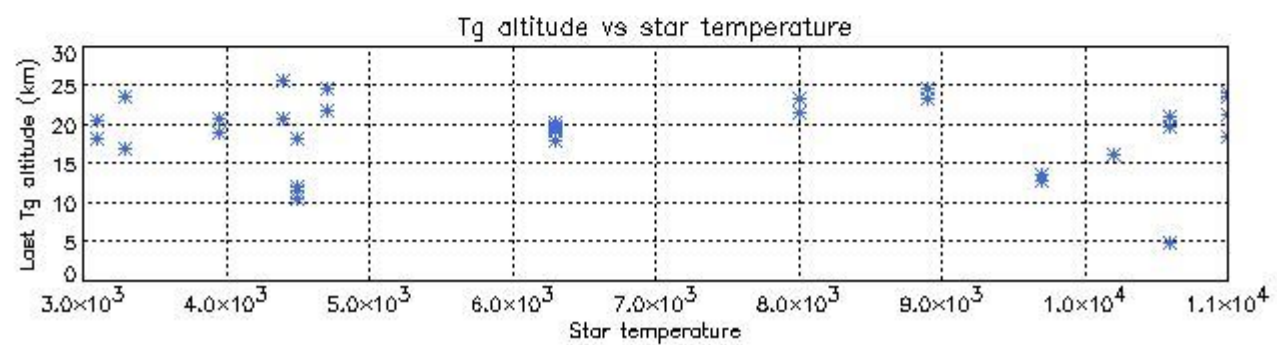
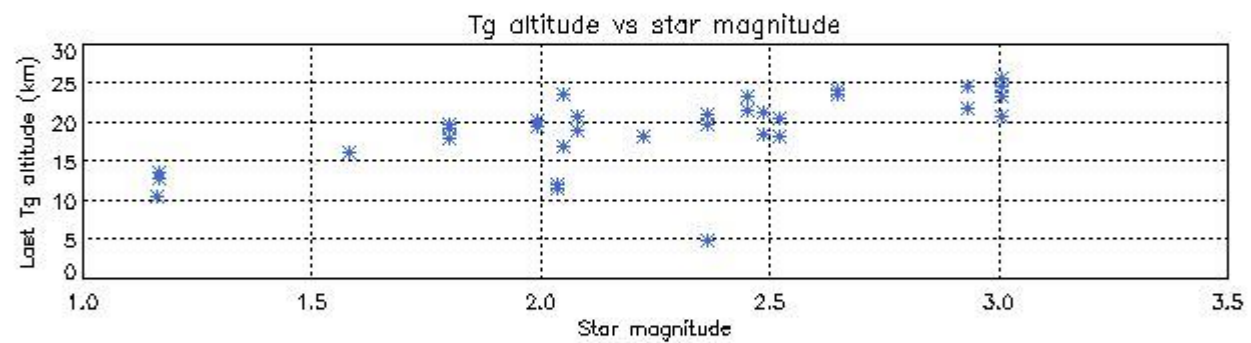
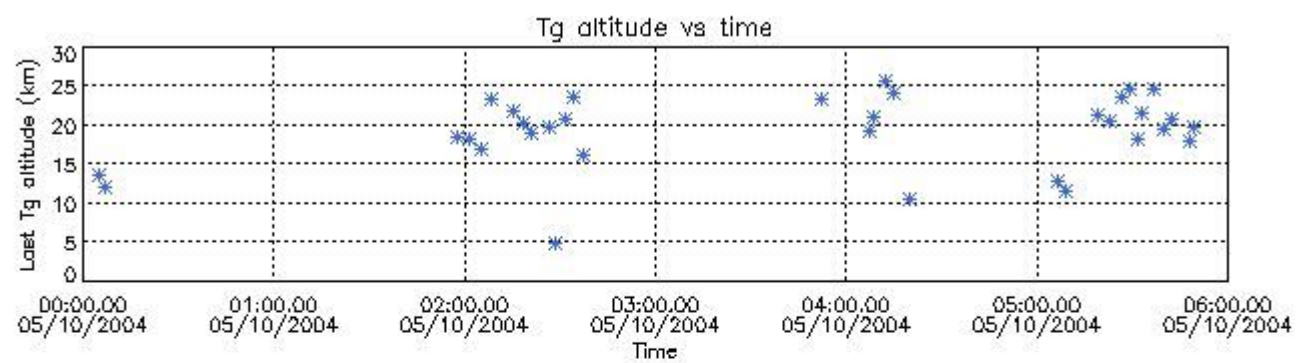
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

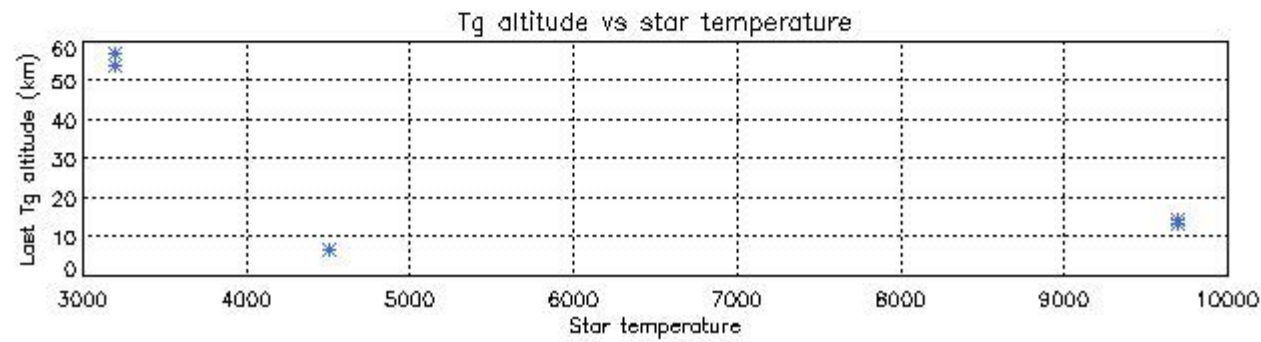
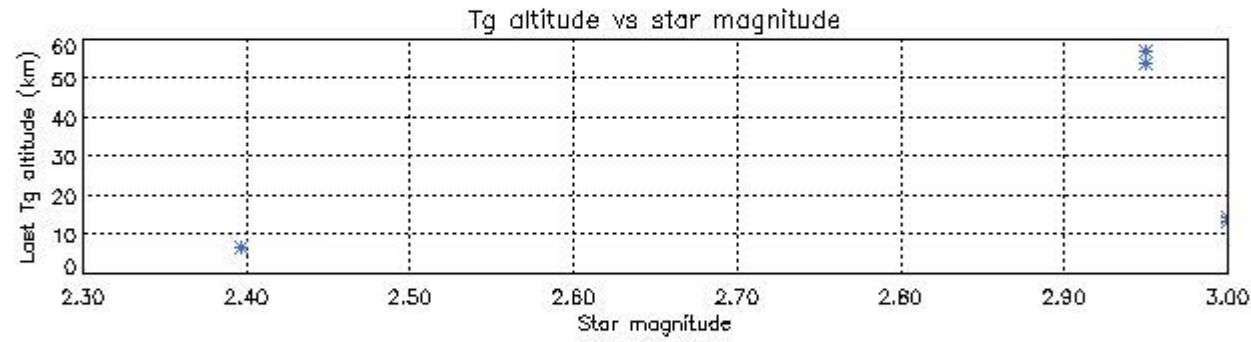
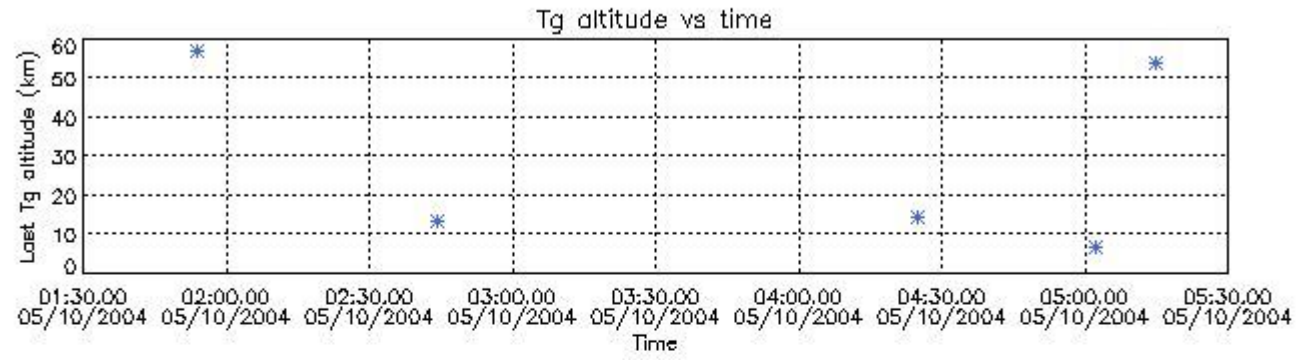
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



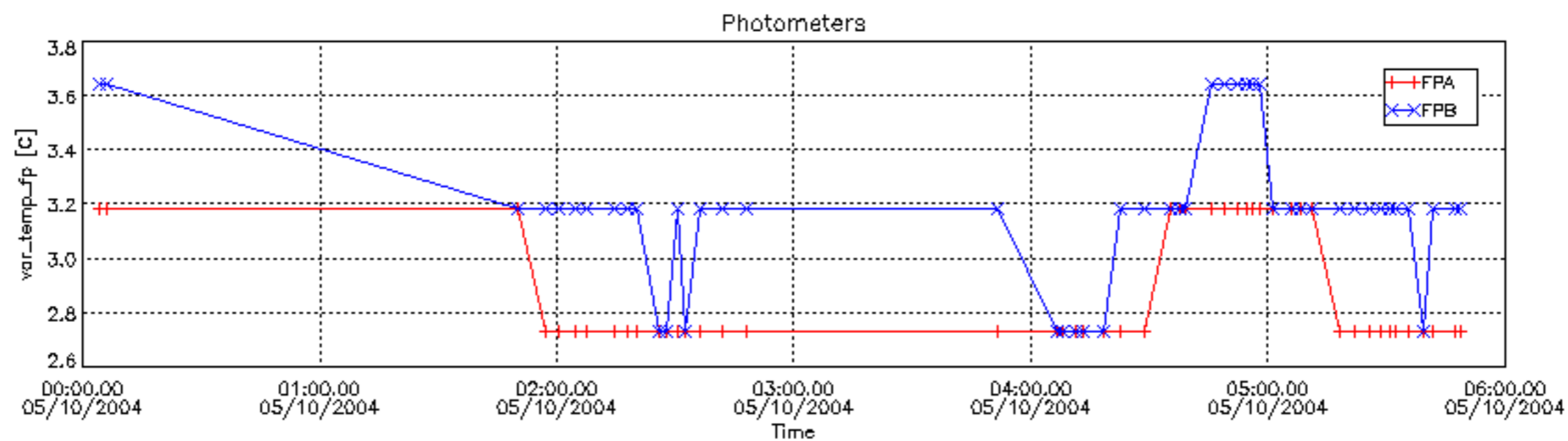
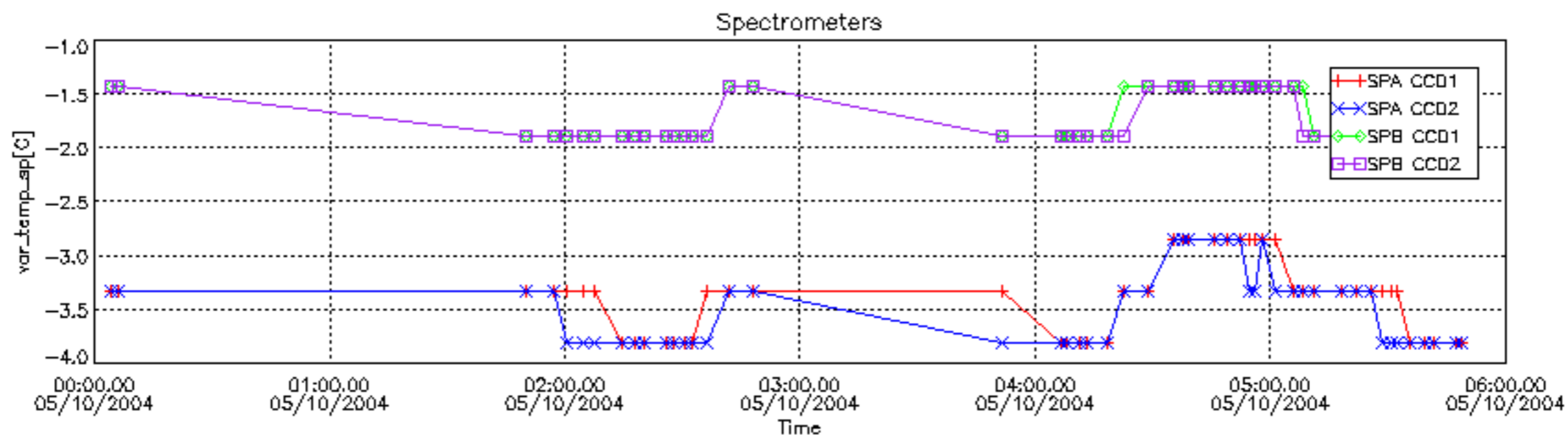
## Tangent altitude at which the star is lost

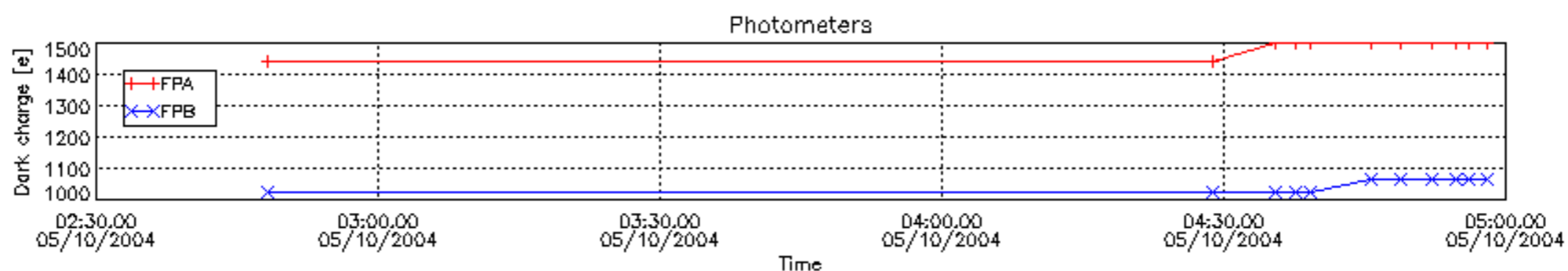
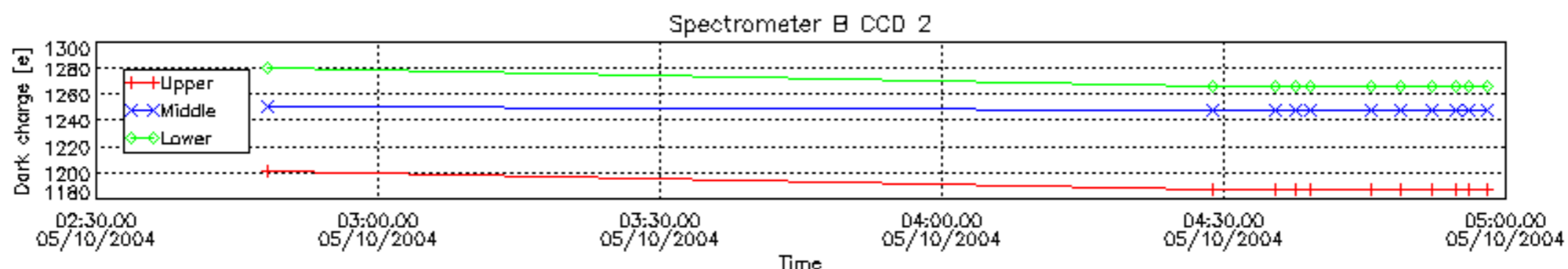
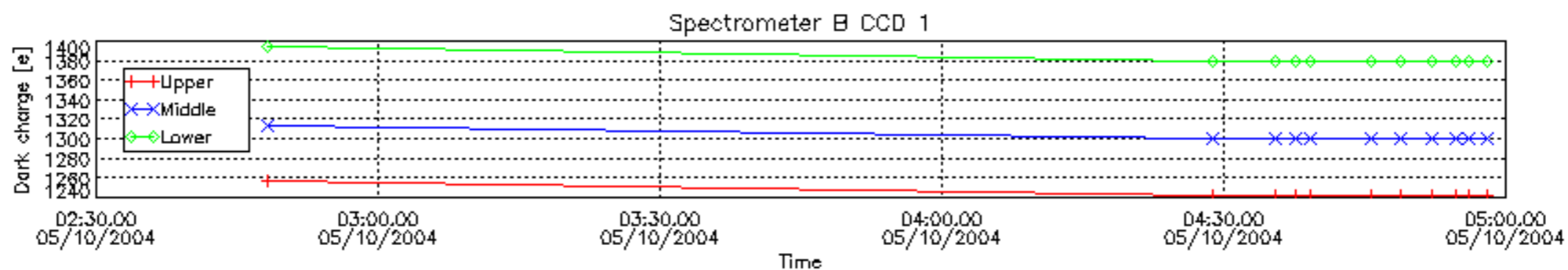
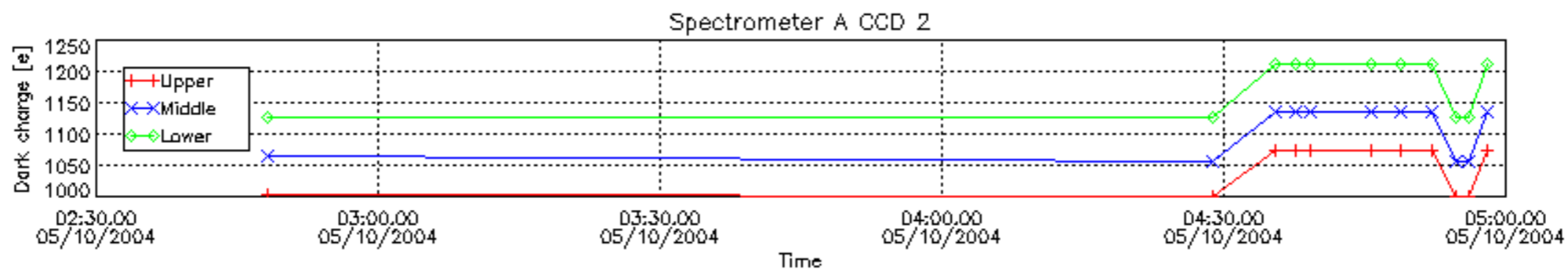
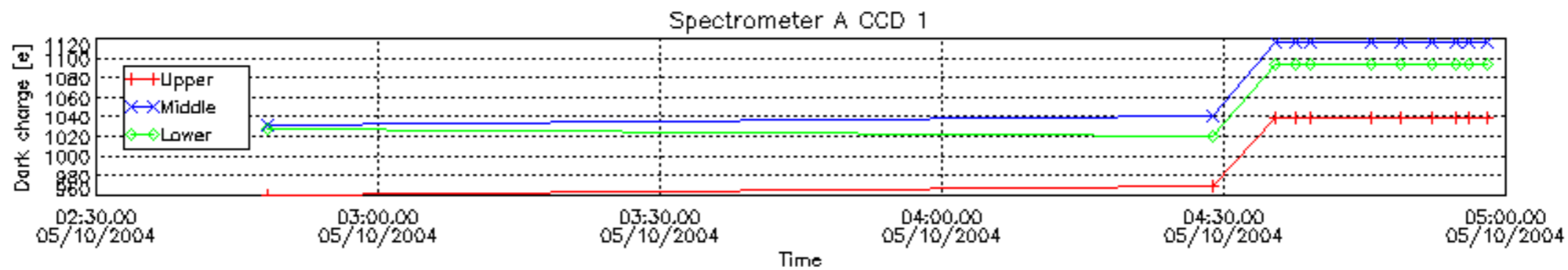


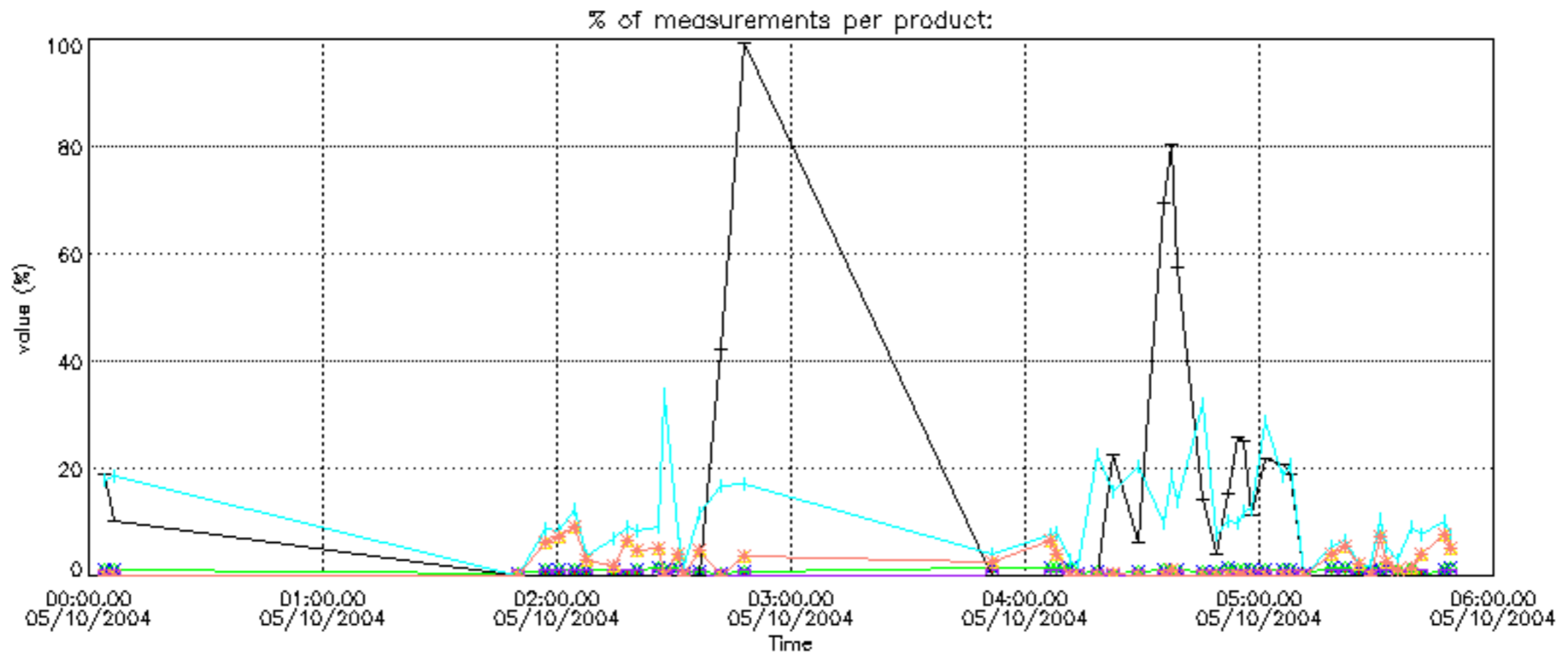
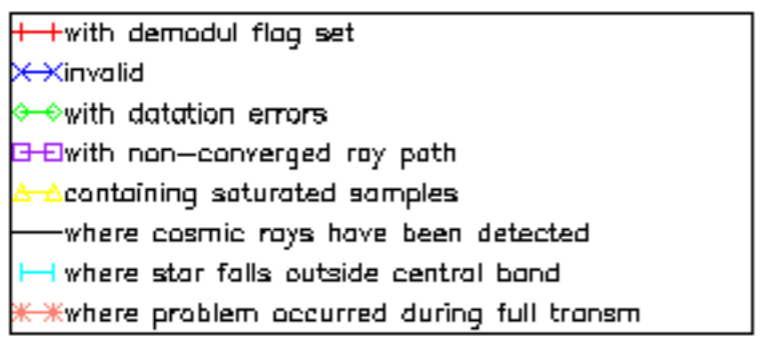
## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1462.2	1447.3	1460.9	1447.9
St. deviation:	5.1182	6.1540	6.3456	7.4241
Maximum:	1496.0	1491.0	1522.0	1505.0
Minimum:	1435.0	1412.0	1428.0	1414.0
Number of data:	14950.	14950.	40450.	40450.

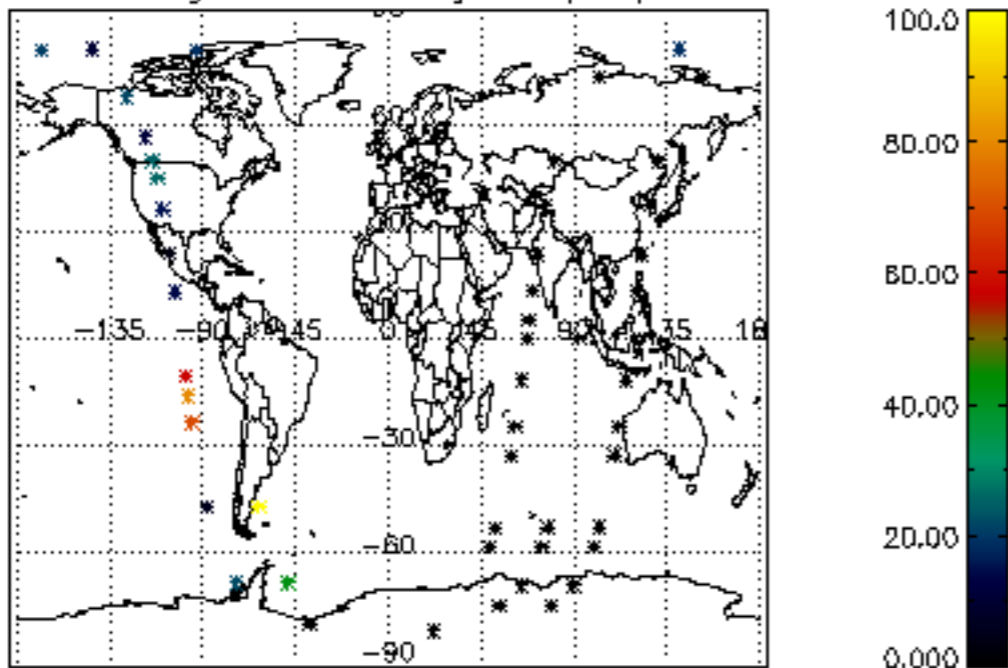




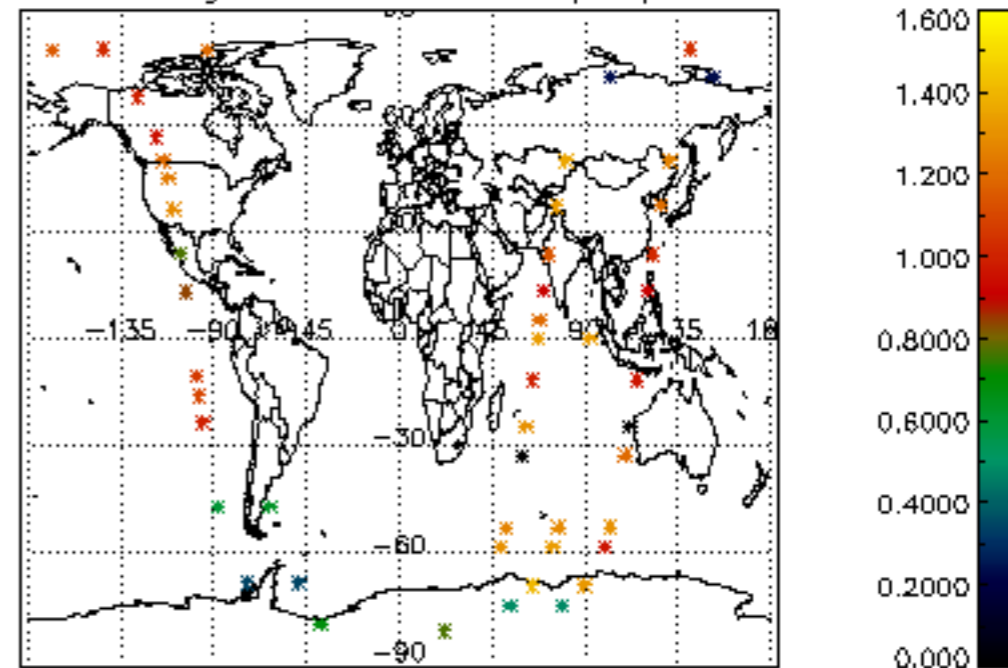




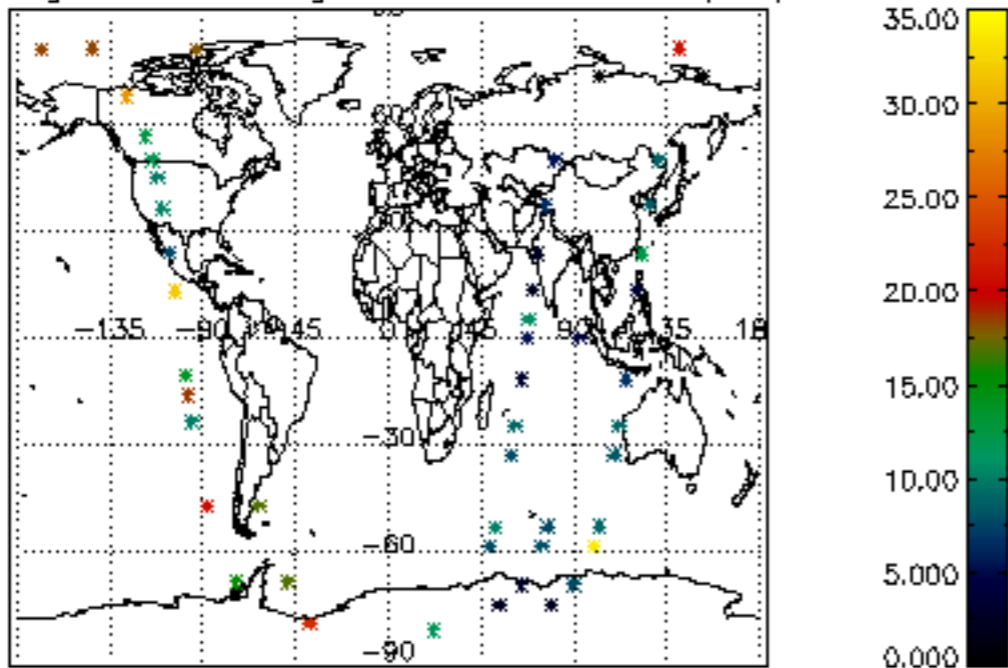
Percentage of cosmic ray hits per profile



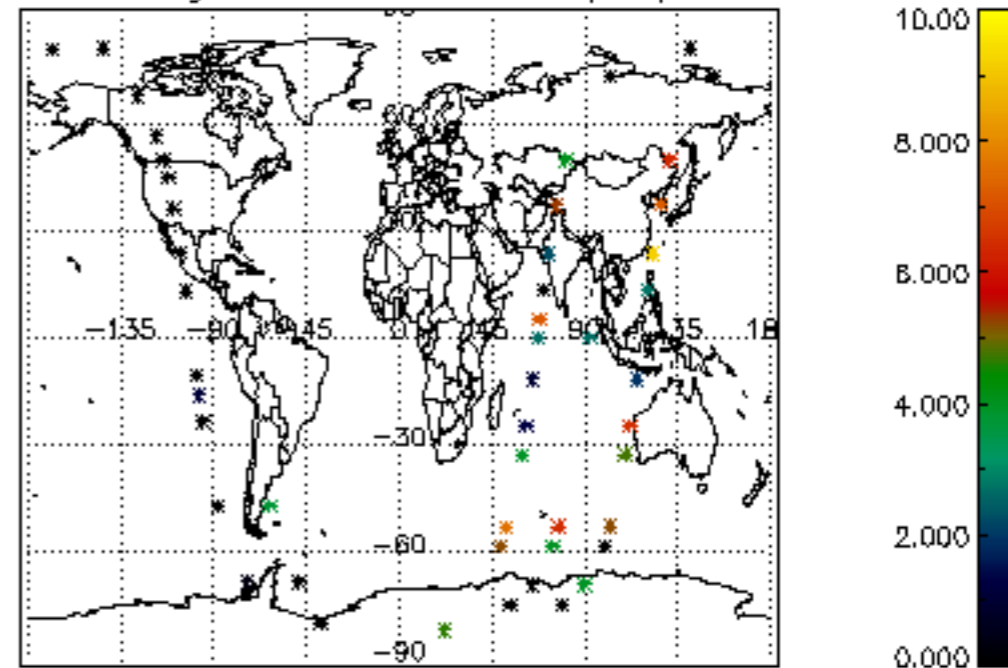
Percentage of datation errors per profile



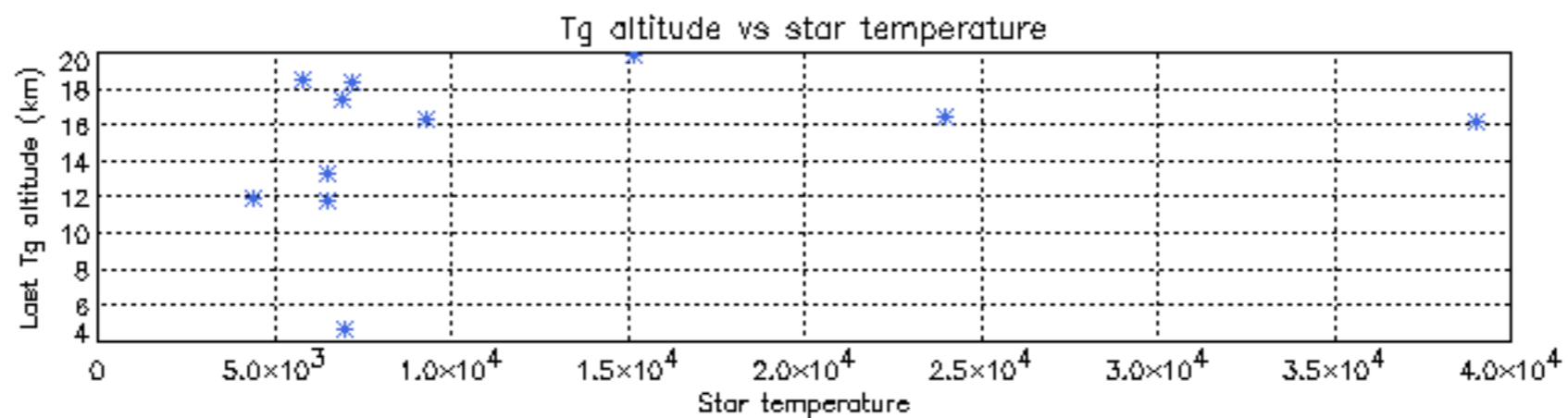
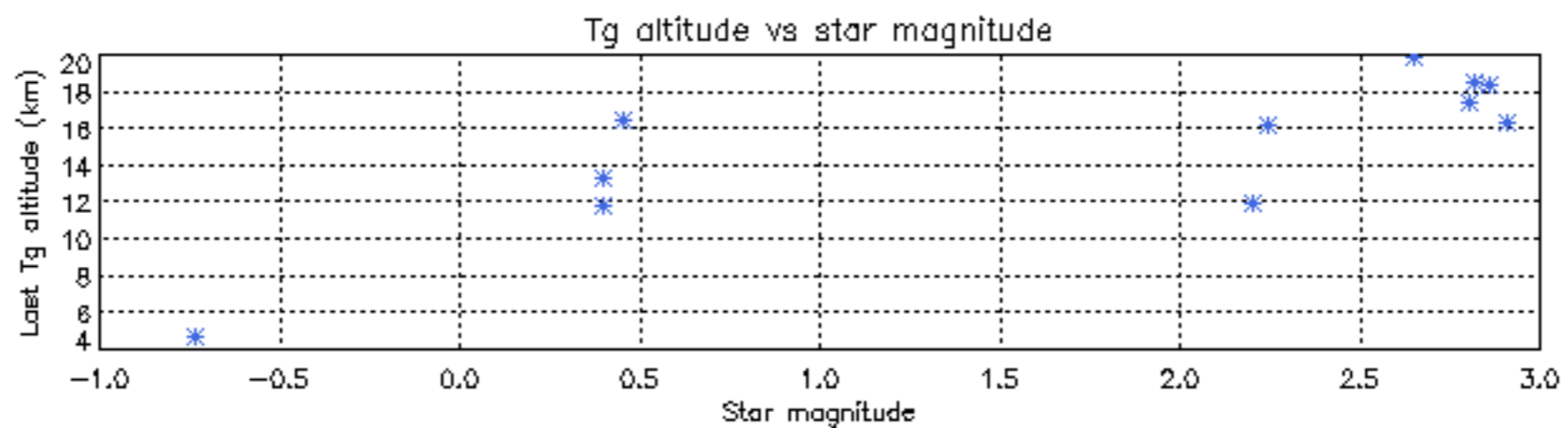
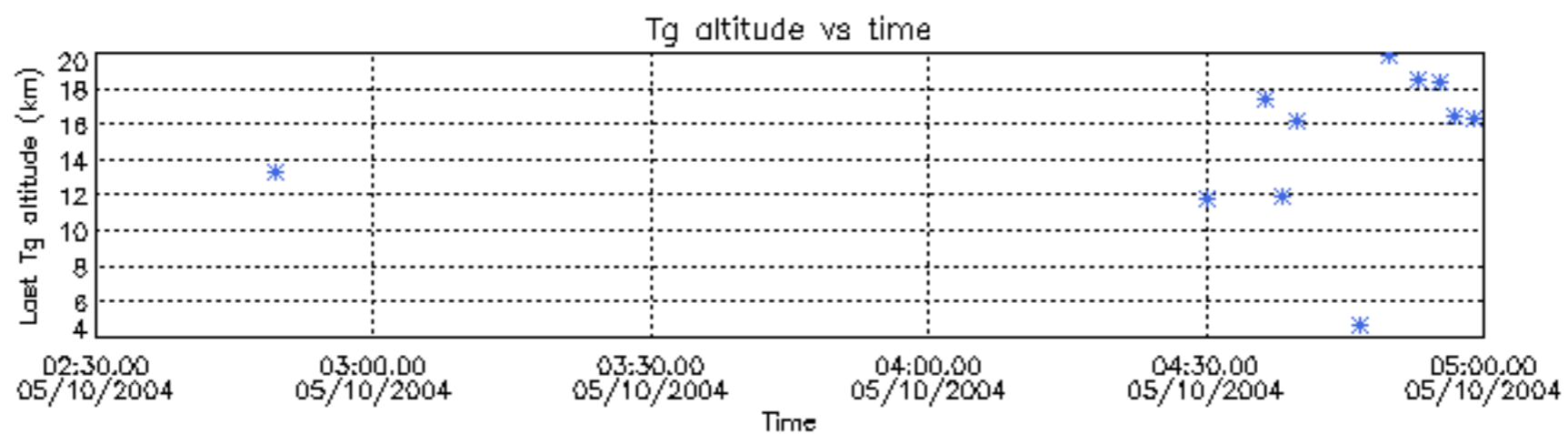
Percentage of star falling outside central band per profile



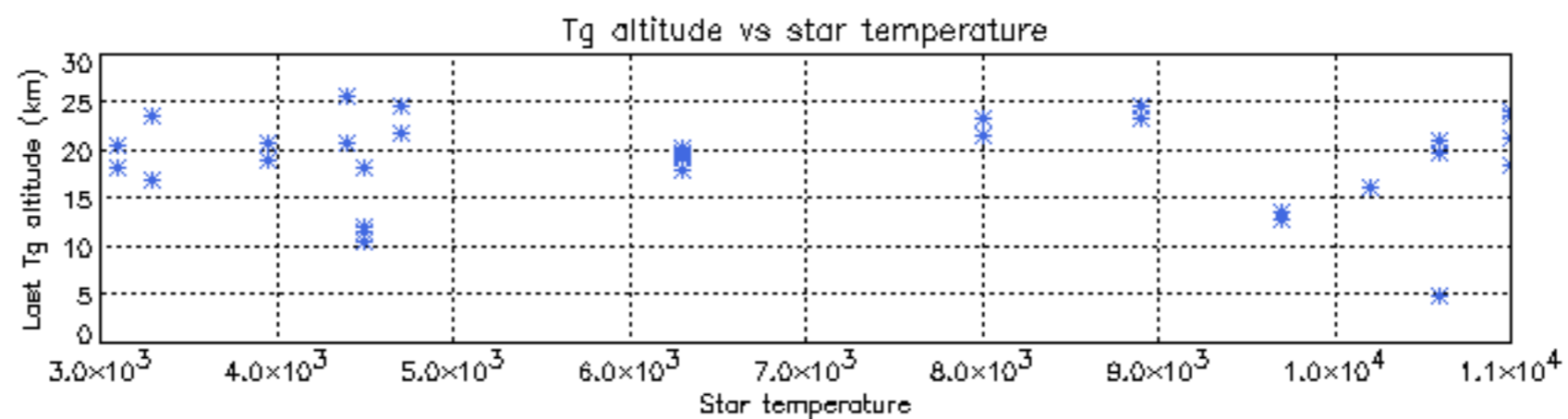
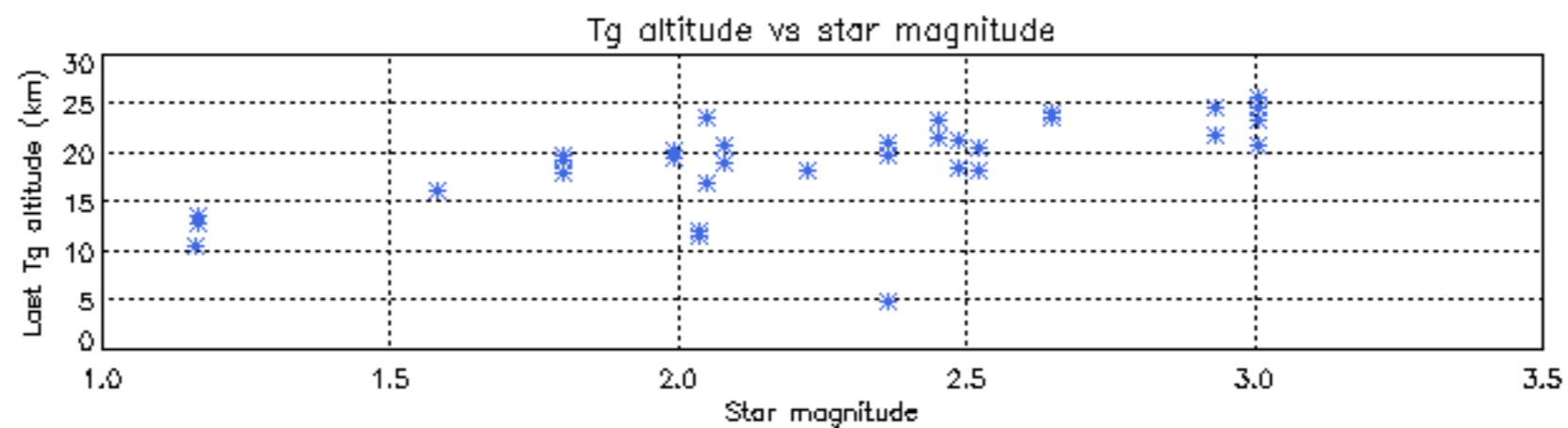
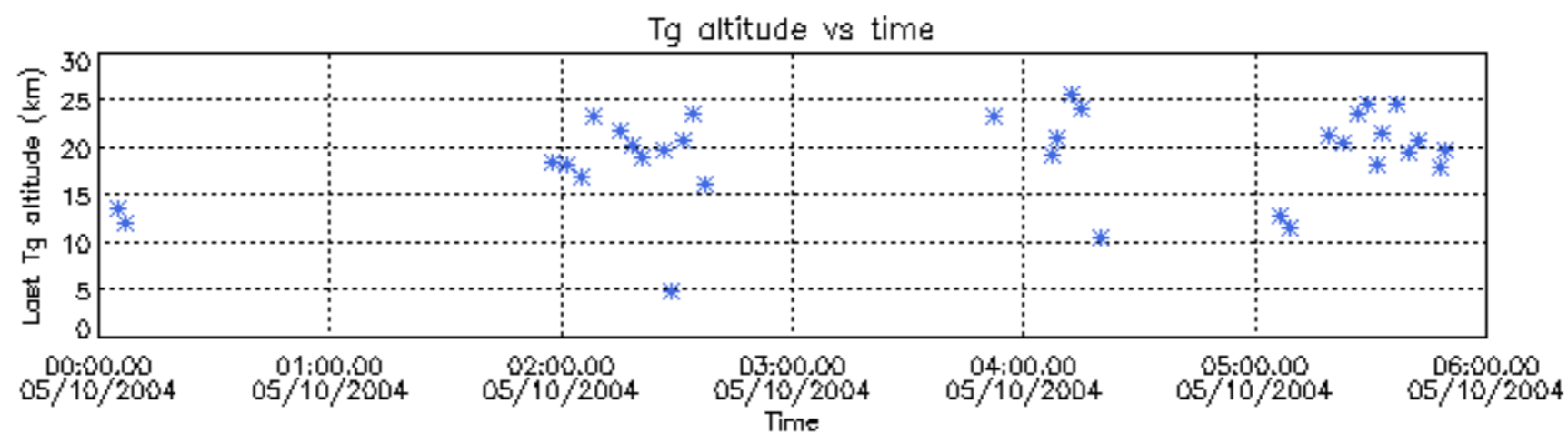
Percentage of saturation errors per profile



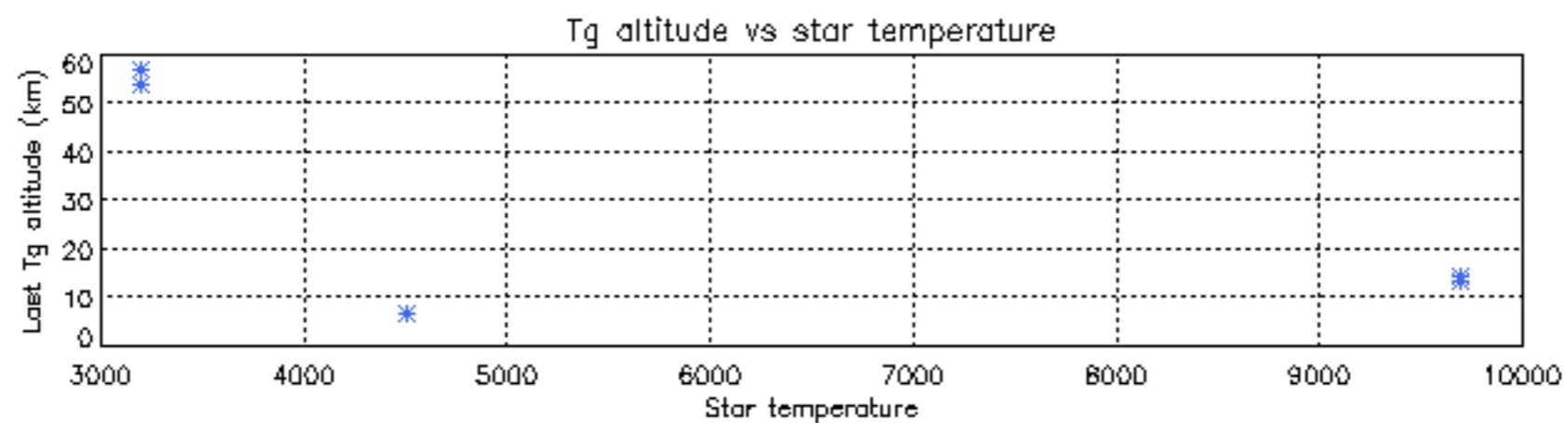
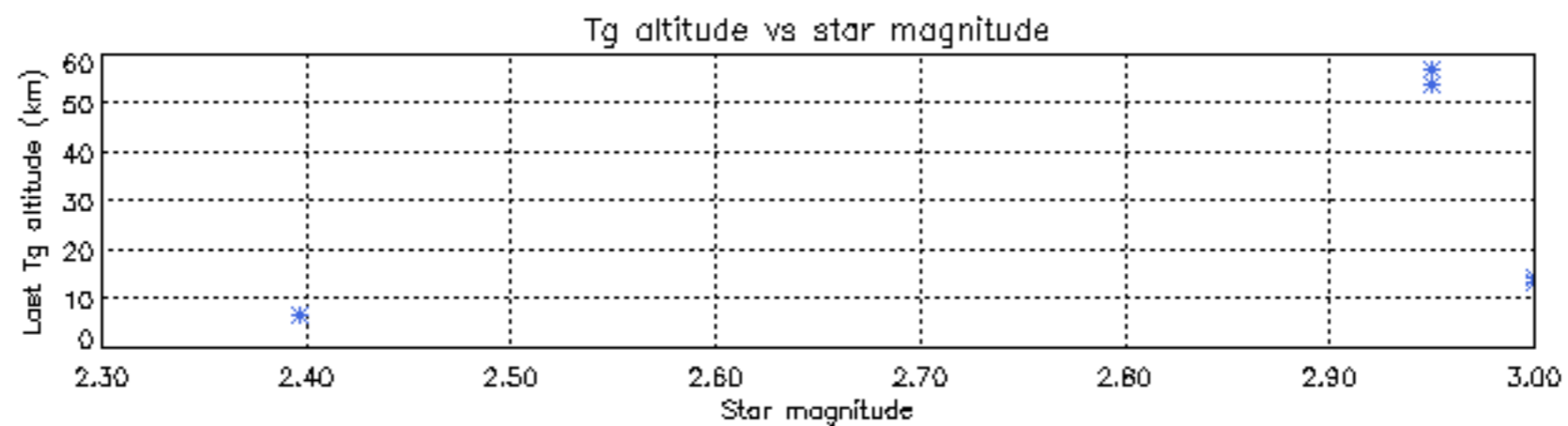
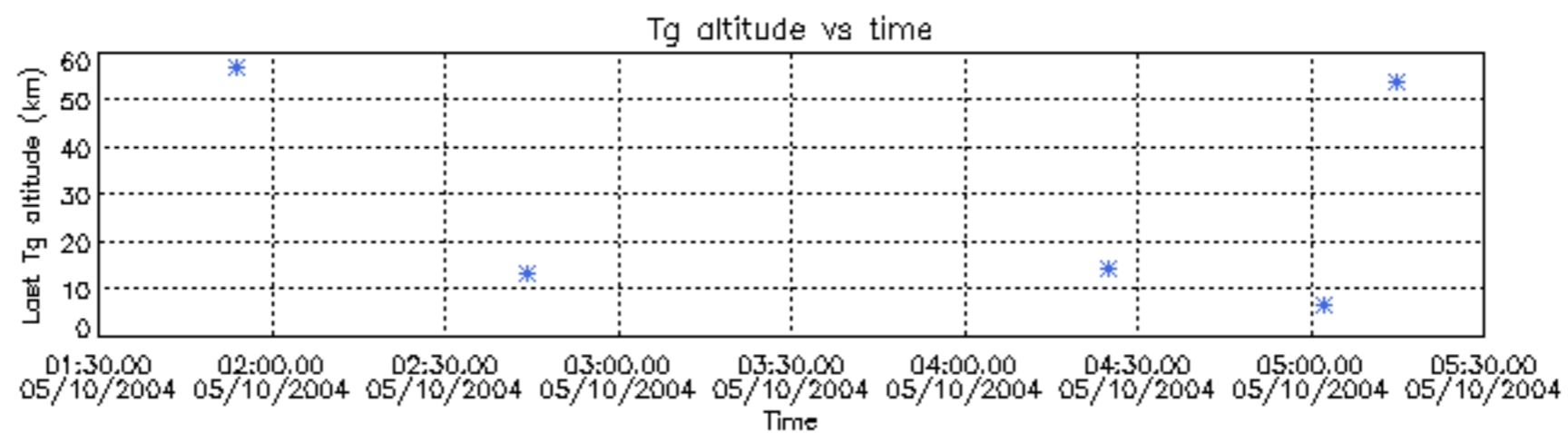
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 3; -295.0; 01-OCT-2004 01:41:49; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;13526  
 4; -140.4; 01-OCT-2004 01:44:23; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;13526  
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 6; 171.9; 01-OCT-2004 01:49:35; Dark ; 56.5; 2; Alp Car ;-0.74; 7000;occ; 113; 0;13527  
 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  
 11; 917.2; 01-OCT-2004 02:02:01; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;13527  
 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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 15; 1944.2; 01-OCT-2004 02:19:08; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;13527  
 16; 2166.5; 01-OCT-2004 02:22:50; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13527  
 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  
 19; 2655.0; 01-OCT-2004 02:30:59; Bright; 50.0; 53; 43Bet And ; 2.05; 3300;occ; 100; 0;13527  
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 21; 3027.7; 01-OCT-2004 02:37:11; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;13527  
 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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 4; -1848.6; 01-OCT-2004 02:56:31; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13527  
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 9; -447.3; 01-OCT-2004 03:19:52; Dark ; 52.0; 132; 15Rho Pup ; 2.80; 6900;occ; 104; 0;13527  
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 12; -37.1; 01-OCT-2004 03:26:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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  
 20; 1419.9; 01-OCT-2004 03:50:59; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;13528  
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 23; 2166.4; 01-OCT-2004 04:03:26; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;13528  
 24; 2384.5; 01-OCT-2004 04:07:04; Bright; 36.5; 93; 53Bet Peg ; 2.52; 3100;occ; 73; 0;13528  
 25; 2520.9; 01-OCT-2004 04:09:20; Bright; 64.0; 105; 6Bet Ari ; 2.64; 8900;occ; 128; 0;13528  
 26; 2653.9; 01-OCT-2004 04:11:33; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;13528  
 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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 30; 3425.7; 01-OCT-2004 04:24:25; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13528  
 31; 3552.0; 01-OCT-2004 04:26:32; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;13528

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13; 314.2; 01-OCT-2004 05:13:10; Dark ; 64.5; 108; Alp Col ; 2.65; 15200;occ; 129; 0;13529
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15; 733.3; 01-OCT-2004 05:20:09; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13529
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22; 2166.4; 01-OCT-2004 05:44:02; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13529
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 4; 1422.0; 01-OCT-2004 20:37:01; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;13538
 5; 1558.2; 01-OCT-2004 20:39:17; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;13538
 6; 1946.6; 01-OCT-2004 20:45:46; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;13538
 7; 2167.5; 01-OCT-2004 20:49:27; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;13538
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 9; 2508.1; 01-OCT-2004 20:55:07; Bright; 62.0; 105; 6Bet Ari ; 2.64; 8900;occ; 124; 0;13538
10; 2647.8; 01-OCT-2004 20:57:27; Bright; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;13538
11; 2946.2; 01-OCT-2004 21:02:25; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;13538
12; 3024.3; 01-OCT-2004 21:03:43; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;13538
13; 3253.1; 01-OCT-2004 21:07:32; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;13538
14; 3427.1; 01-OCT-2004 21:10:26; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13538
15; 3554.7; 01-OCT-2004 21:12:34; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13538
16; 3905.9; 01-OCT-2004 21:18:25; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;13538
17; 3996.3; 01-OCT-2004 21:19:55; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;13538
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19; 4327.2; 01-OCT-2004 21:25:26; Bright; 100.0; 107; 37The Aur ; 2.65; 11000;occ; 200; 0;13538
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 9; 604.4; 01-OCT-2004 22:03:59; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;13539
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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
23; 3252.2; 01-OCT-2004 22:48:07; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;13539
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29; 4326.7; 01-OCT-2004 23:06:02; Bright; 93.5; 107; 37The Aur ; 2.65; 11000;occ; 187; 0;13539
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31; 4812.7; 01-OCT-2004 23:14:08; Dark ; 107.0; 170; 27Eps Gem ; 3.00; 9700;occ; 214; 0;13539
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2;	-277.1;	04-OCT-2004	00:07:16;	Dark	;	51.5;	65;	Lam Vel	;	2.20;	4400;occ;	103;	0;	13568
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4;	-5.9;	04-OCT-2004	00:11:48;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13568
5;	204.6;	04-OCT-2004	00:15:18;	Dark	;	60.0;	2;	Alp Car	;	-0.74;	7000;occ;	120;	0;	13569
6;	375.0;	04-OCT-2004	00:18:08;	Dark	;	67.0;	108;	Alp Col	;	2.65;	15200;occ;	134;	0;	13569
7;	607.8;	04-OCT-2004	00:22:01;	Dark	;	39.0;	135;	Bet Hyi	;	2.82;	5800;occ;	78;	0;	13569
8;	747.6;	04-OCT-2004	00:24:21;	Dark	;	41.0;	143;	Alp Hyi	;	2.86;	7200;occ;	82;	0;	13569
9;	834.6;	04-OCT-2004	00:25:48;	Dark	;	48.0;	9;	Alp Eri	;	0.45;	24000;occ;	96;	0;	13569
10;	945.5;	04-OCT-2004	00:27:39;	Dark	;	52.5;	157;	The1Eri	;	2.91;	9300;occ;	105;	0;	13569
11;	1152.1;	04-OCT-2004	00:31:06;	Dark	;	44.0;	84;	Alp Phe	;	2.40;	4500;occ;	88;	0;	13569
12;	1427.1;	04-OCT-2004	00:35:41;	Dark	;	43.0;	18;	24Alp PsA	;	1.17;	9700;occ;	86;	0;	13569
13;	1559.4;	04-OCT-2004	00:37:53;	Dark	;	53.5;	52;	16Bet Cet	;	2.04;	4500;occ;	107;	0;	13569
14;	1783.5;	04-OCT-2004	00:41:37;	Bright;	177.0;	165;	34Gam Eri	;	2.95;	3200;occ;	354;	0;	13569	
15;	2168.4;	04-OCT-2004	00:48:02;	Bright;	38.5;	90;	54Alp Peg	;	2.49;	11000;occ;	77;	0;	13569	
16;	2384.7;	04-OCT-2004	00:51:38;	Bright;	39.5;	93;	53Bet Peg	;	2.52;	3100;occ;	79;	0;	13569	
17;	2627.5;	04-OCT-2004	00:55:41;	Bright;	50.5;	53;	43Bet And	;	2.05;	3300;occ;	101;	0;	13569	
18;	2803.6;	04-OCT-2004	00:58:37;	Bright;	57.0;	173;	4Bet Tri	;	3.00;	8900;occ;	114;	0;	13569	
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20;	3426.0;	04-OCT-2004	01:08:59;	Bright;	37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	13569	
21;	3561.8;	04-OCT-2004	01:11:15;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;	13569	
22;	3908.2;	04-OCT-2004	01:17:02;	Bright;	39.5;	36;	50Alp UMa	;	1.80;	6300;occ;	79;	0;	13569	
23;	3998.4;	04-OCT-2004	01:18:32;	Bright;	38.5;	82;	48Bet UMa	;	2.37;	10600;occ;	77;	0;	13569	
24;	4193.9;	04-OCT-2004	01:21:47;	Bright;	52.0;	174;	52Psi UMa	;	3.00;	4400;occ;	104;	0;	13569	
25;	4314.4;	04-OCT-2004	01:23:48;	Bright;	105.0;	107;	37The Aur	;	2.65;	11000;occ;	210;	0;	13569	
26;	4519.6;	04-OCT-2004	01:27:13;	Bright;	67.0;	24;	66Alp Gem	;	1.58;	10200;occ;	134;	0;	13569	
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7;	-832.4;	03-OCT-2004	07:12:02;	Dark	;	90.5;	8;	10Alp CMI	;	0.40;	6500;occ;	181;	0;	13558
8;	-419.7;	03-OCT-2004	07:18:54;	Dark	;	52.0;	132;	15Rho Pup	;	2.80;	6900;occ;	104;	0;	13558
9;	-280.5;	03-OCT-2004	07:21:14;	Dark	;	47.0;	65;	Lam Vel	;	2.20;	4400;occ;	94;	0;	13558



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12; 197.8; 03-OCT-2004 07:29:12; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;13559
13; 357.3; 03-OCT-2004 07:31:51; Dark ; 66.0; 108; Alp Col ; 2.65; 15200;occ; 132; 0;13559
14; 606.7; 03-OCT-2004 07:36:01; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;13559
15; 744.3; 03-OCT-2004 07:38:18; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13559
16; 832.2; 03-OCT-2004 07:39:46; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;13559
17; 938.8; 03-OCT-2004 07:41:33; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13559
18; 1145.5; 03-OCT-2004 07:45:00; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;13559
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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2;-3867.4; 03-OCT-2004 08:02:03; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13559
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5;-3402.2; 03-OCT-2004 08:09:48; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;13559
6;-3220.7; 03-OCT-2004 08:12:49; Bright; 57.5; 173; 4Bet Tri ; 3.00; 8900;occ; 115; 0;13559
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12;-2128.3; 03-OCT-2004 08:31:02; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;13559
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14;-1845.8; 03-OCT-2004 08:35:44; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;13559
15;-1716.9; 03-OCT-2004 08:37:53; Bright; 102.0; 107; 37The Aur ; 2.65; 11000;occ; 204; 0;13559
16;-1518.2; 03-OCT-2004 08:41:12; Bright; 63.0; 24; 66Alp Gem ; 1.58; 10200;occ; 126; 0;13559
17;-1202.4; 03-OCT-2004 08:46:28; Dark ; 123.0; 170; 27Eps Gem ; 3.00; 9700;occ; 246; 0;13559
18; -830.7; 03-OCT-2004 08:52:39; Dark ; 77.0; 8; 10Alp CMi ; 0.40; 6500;occ; 154; 0;13559
19; -419.0; 03-OCT-2004 08:59:31; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;13559
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21; -118.9; 03-OCT-2004 09:04:31; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;13559
22; -12.9; 03-OCT-2004 09:06:17; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;13559
23; 198.3; 03-OCT-2004 09:09:48; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;13560
24; 361.3; 03-OCT-2004 09:12:31; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;13560
25; 606.8; 03-OCT-2004 09:16:37; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;13560
26; 744.7; 03-OCT-2004 09:18:55; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;13560
27; 832.4; 03-OCT-2004 09:20:22; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13560
28; 940.7; 03-OCT-2004 09:22:11; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;13560
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13;-2040.3; 03-OCT-2004 10:13:06; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;13560
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16;-1518.2; 03-OCT-2004 10:21:48; Bright; 65.0; 24; 66Alp Gem ; 1.58; 10200;occ; 130; 0;13560
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23; 198.8; 03-OCT-2004 10:50:25; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;13561
24; 362.3; 03-OCT-2004 10:53:08; Dark ; 62.5; 108; Alp Col ; 2.65; 15200;occ; 125; 0;13561

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12;-2477.9; 03-OCT-2004 11:46:24; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;13561
13;-2127.8; 03-OCT-2004 11:52:14; Bright; 34.0; 36; 50Alp UMa ; 1.80; 6300;occ; 68; 0;13561
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15;-1843.2; 03-OCT-2004 11:56:59; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;13561
16;-1717.6; 03-OCT-2004 11:59:04; Bright; 99.0; 107; 37The Aur ; 2.65; 11000;occ; 198; 0;13561
17;-1517.6; 03-OCT-2004 12:02:24; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;13561
18;-1199.6; 03-OCT-2004 12:07:42; Dark ; 124.0; 170; 27Eps Gem ; 3.00; 9700;occ; 248; 0;13561
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23; -11.3; 03-OCT-2004 12:27:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13561
24; 199.3; 03-OCT-2004 12:31:01; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;13562
25; 363.7; 03-OCT-2004 12:33:45; Dark ; 65.5; 108; Alp Col ; 2.65; 15200;occ; 131; 0;13562
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27; 745.5; 03-OCT-2004 12:40:07; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13562
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9;	1594.3;	20-OCT-2004	22:23:25;	Dark	;	47.5;	52;	16Bet Cet	;	2.04;	4500;occ;	95;	0;	13811
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13;	2531.0;	20-OCT-2004	22:39:02;	Bright;	;	40.5;	53;	43Bet And	;	2.05;	3300;occ;	81;	0;	13811
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