

# GOMOS Daily Report 20-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	22OCT2004 05:02:35
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (20OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (21OCT2004 00:00:00)

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

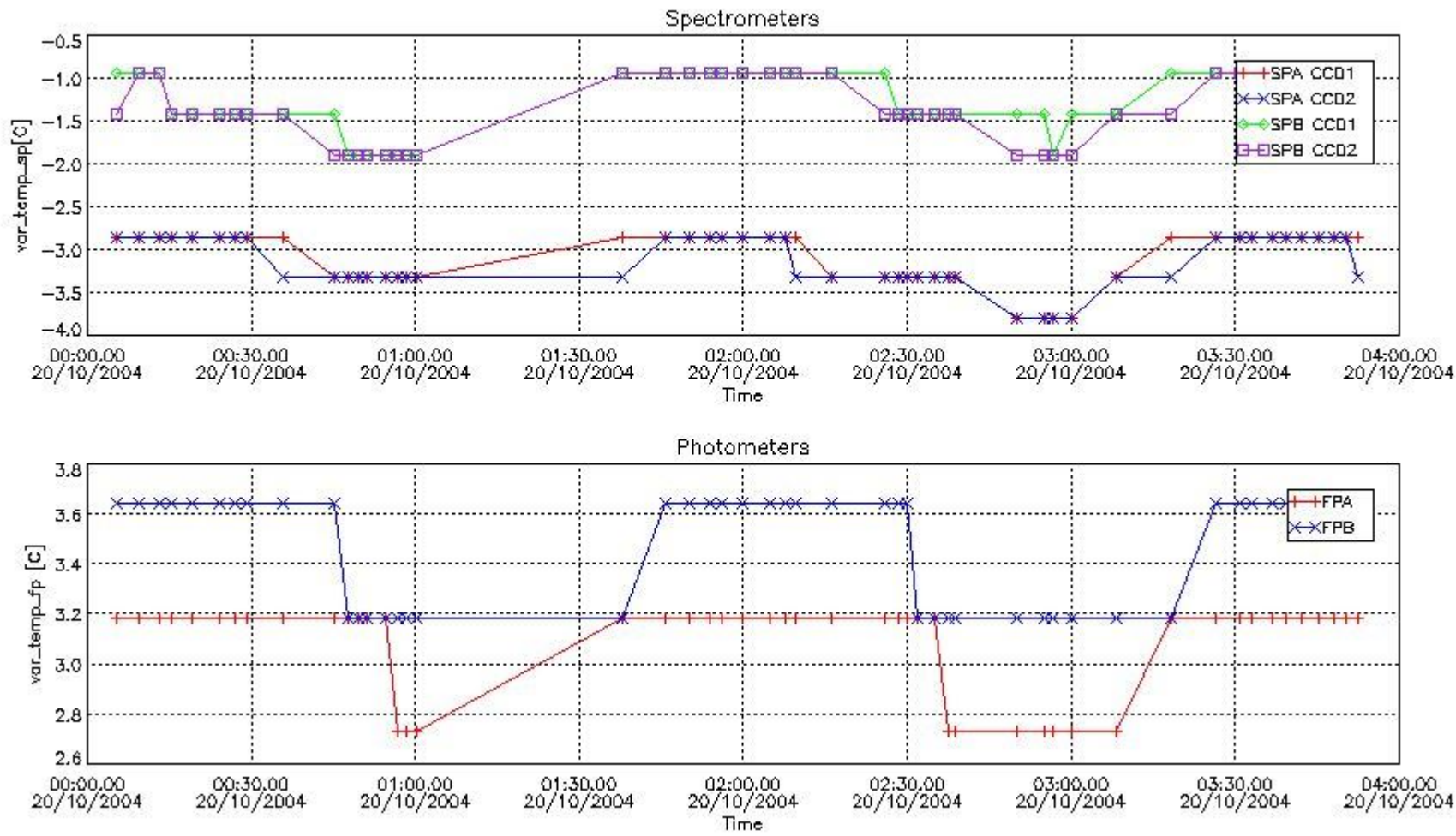
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20041020_000514_000000402031_00216_13797_0001.N1	20-OCT-2004 00:05:14	Dark	39.500	113	Mu Vel	2.6920	5000.0	79	13797	No
GOM_TRA_1PNPDE20041020_000933_000000422031_00217_13798_0002.N1	20-OCT-2004 00:09:33	Dark	42.000	46	Del Vel	1.9540	10600.	84	13798	No
GOM_TRA_1PNPDE20041020_001306_000000842031_00217_13798_0003.N1	20-OCT-2004 00:13:06	Dark	84.000	37	25Del CMa	1.8300	5900.0	168	13798	No
GOM_TRA_1PNPDE20041020_001529_000000552031_00217_13798_0004.N1	20-OCT-2004 00:15:29	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	13798	No
GOM_TRA_1PNPDE20041020_001907_000002212031_00217_13798_0005.N1	20-OCT-2004 00:19:07	Dark	221.00	1	9Alp CMa	-1.4400	11000.	442	13798	No
GOM_TRA_1PNPDE20041020_002410_000000452031_00217_13798_0006.N1	20-OCT-2004 00:24:10	Dark	45.000	9	Alp Eri	0.45300	24000.	90	13798	No
GOM_TRA_1PNPDE20041020_002657_000000502031_00217_13798_0007.N1	20-OCT-2004 00:26:57	Dark	49.500	157	The1Eri	2.9060	9300.0	99	13798	No
GOM_TRA_1PNPDE20041020_002905_000000452031_00217_13798_0008.N1	20-OCT-2004 00:29:05	Dark	45.000	84	Alp Phe	2.3970	4500.0	90	13798	No
GOM_TRA_1PNPDE20041020_003538_000000422031_00217_13798_0009.N1	20-OCT-2004 00:35:38	Bright	41.500	52	16Bet Cet	2.0370	4500.0	83	13798	No
GOM_TRA_1PNPDE20041020_004508_000000392031_00217_13798_0010.N1	20-OCT-2004 00:45:08	Bright	38.500	140	88Gam Peg	2.8340	26000.	77	13798	No
GOM_TRA_1PNPDE20041020_004742_000000462031_00217_13798_0011.N1	20-OCT-2004 00:47:42	Bright	45.500	105	6Bet Ari	2.6450	8900.0	91	13798	No
GOM_TRA_1PNPDE20041020_004929_000000412031_00217_13798_0012.N1	20-OCT-2004 00:49:29	Bright	41.000	93	53Bet Peg	2.5200	3100.0	82	13798	No
GOM_TRA_1PNPDE20041020_005116_000000442031_00217_13798_0013.N1	20-OCT-2004 00:51:16	Bright	43.500	53	43Bet And	2.0480	3300.0	87	13798	No
GOM_TRA_1PNPDE20041020_005430_000000462031_00217_13798_0014.N1	20-OCT-2004 00:54:30	Bright	46.000	73	57Gam1And	2.2600	13100.	92	13798	No
GOM_TRA_1PNPDE20041020_005655_000000382031_00217_13798_0015.N1	20-OCT-2004 00:56:55	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	13798	No
GOM_TRA_1PNPDE20041020_005817_000000392031_00217_13798_0016.N1	20-OCT-2004 00:58:17	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	13798	No
GOM_TRA_1PNPDE20041020_010021_000000372031_00217_13798_0017.N1	20-OCT-2004 01:00:21	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	13798	No
GOM_TRA_1PNPDE20041020_013745_000000662031_00217_13798_0000.N1	20-OCT-2004 01:37:45	Twilight	65.500	48	30Alp Hya	1.9770	4100.0	131	13798	No
GOM_TRA_1PNPDE20041020_014549_000000432031_00217_13798_0001.N1	20-OCT-2004 01:45:49	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	13798	No
GOM_TRA_1PNPDE20041020_015007_000000442031_00218_13799_0002.N1	20-OCT-2004 01:50:07	Dark	44.000	46	Del Vel	1.9540	10600.	88	13799	No
GOM_TRA_1PNPDE20041020_015346_000000822031_00218_13799_0003.N1	20-OCT-2004 01:53:46	Dark	82.000	37	25Del CMa	1.8300	5900.0	164	13799	No
GOM_TRA_1PNPDE20041020_015608_000000532031_00218_13799_0004.N1	20-OCT-2004 01:56:08	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	13799	No
GOM_TRA_1PNPDE20041020_015947_000002212031_00218_13799_0005.N1	20-OCT-2004 01:59:47	Dark	221.00	1	9Alp CMa	-1.4400	11000.	442	13799	No
GOM_TRA_1PNPDE20041020_020446_000000432031_00218_13799_0006.N1	20-OCT-2004 02:04:46	Dark	42.500	9	Alp Eri	0.45300	24000.	85	13799	No
GOM_TRA_1PNPDE20041020_020733_000000472031_00218_13799_0007.N1	20-OCT-2004 02:07:33	Dark	47.000	157	The1Eri	2.9060	9300.0	94	13799	No
GOM_TRA_1PNPDE20041020_020940_000000442031_00218_13799_0008.N1	20-OCT-2004 02:09:40	Dark	44.000	84	Alp Phe	2.3970	4500.0	88	13799	No
GOM_TRA_1PNPDE20041020_021614_000000462031_00218_13799_0009.N1	20-OCT-2004 02:16:14	Bright	45.500	52	16Bet Cet	2.0370	4500.0	91	13799	No
GOM_TRA_1PNPDE20041020_022544_000000402031_00218_13799_0010.N1	20-OCT-2004 02:25:44	Bright	40.000	140	88Gam Peg	2.8340	26000.	80	13799	No
GOM_TRA_1PNPDE20041020_022816_000000472031_00218_13799_0011.N1	20-OCT-2004 02:28:16	Bright	46.500	105	6Bet Ari	2.6450	8900.0	93	13799	No
GOM_TRA_1PNPDE20041020_023005_000000402031_00218_13799_0012.N1	20-OCT-2004 02:30:05	Bright	40.000	93	53Bet Peg	2.5200	3100.0	80	13799	No
GOM_TRA_1PNPDE20041020_023153_000000442031_00218_13799_0013.N1	20-OCT-2004 02:31:53	Bright	44.000	53	43Bet And	2.0480	3300.0	88	13799	No
GOM_TRA_1PNPDE20041020_023504_000000452031_00218_13799_0014.N1	20-OCT-2004 02:35:04	Bright	45.000	73	57Gam1And	2.2600	13100.	90	13799	No
GOM_TRA_1PNPDE20041020_023733_000000412031_00218_13799_0015.N1	20-OCT-2004 02:37:33	Bright	41.000	68	18Alp Cas	2.2250	4500.0	82	13799	No
GOM_TRA_1PNPDE20041020_023853_000000392031_00218_13799_0016.N1	20-OCT-2004 02:38:53	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	13799	No
GOM_TRA_1PNPDE20041020_024958_000000392031_00218_13799_0000.N1	20-OCT-2004 02:49:58	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	13799	No
GOM_TRA_1PNPDE20041020_025458_000000402031_00218_13799_0001.N1	20-OCT-2004 02:54:58	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	13799	No
GOM_TRA_1PNPDE20041020_025632_000000402031_00218_13799_0002.N1	20-OCT-2004 02:56:32	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	13799	No
GOM_TRA_1PNPDE20041020_030000_000000382031_00218_13799_0003.N1	20-OCT-2004 03:00:00	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	13799	No
GOM_TRA_1PNPDE20041020_030822_000001342031_00218_13799_0004.N1	20-OCT-2004 03:08:22	Twilight	134.00	17	78Bet Gem	1.1610	4500.0	268	13799	No
GOM_TRA_1PNPDE20041020_031822_000000612031_00218_13799_0005.N1	20-OCT-2004 03:18:22	Twilight	60.500	48	30Alp Hya	1.9770	4100.0	121	13799	No
GOM_TRA_1PNPDE20041020_032626_000000442031_00218_13799_0006.N1	20-OCT-2004 03:26:26	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	13799	No
GOM_TRA_1PNPDE20041020_033047_000000452031_00219_13800_0007.N1	20-OCT-2004 03:30:47	Dark	44.500	46	Del Vel	1.9540	10600.	89	13800	No
GOM_TRA_1PNPDE20041020_033253_000000422031_00219_13800_0008.N1	20-OCT-2004 03:32:53	Dark	41.500	29	Bet Car	1.6720	10200.	83	13800	No
GOM_TRA_1PNPDE20041020_033645_000000512031_00219_13800_0009.N1	20-OCT-2004 03:36:45	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	13800	No
GOM_TRA_1PNPDE20041020_033923_000000762031_00219_13800_0010.N1	20-OCT-2004 03:39:23	Dark	75.500	177	1Zet CMa	3.0220	26000.	151	13800	No
GOM_TRA_1PNPDE20041020_034207_000000722031_00219_13800_0011.N1	20-OCT-2004 03:42:07	Dark	72.000	108	Alp Col	2.6520	15200.	144	13800	No
GOM_TRA_1PNPDE20041020_034522_000000402031_00219_13800_0012.N1	20-OCT-2004 03:45:22	Dark	40.000	9	Alp Eri	0.45300	24000.	80	13800	No
GOM_TRA_1PNPDE20041020_034810_000000472031_00219_13800_0013.N1	20-OCT-2004 03:48:10	Dark	46.500	157	The1Eri	2.9060	9300.0	93	13800	No
GOM_TRA_1PNPDE20041020_035017_000000452031_00219_13800_0014.N1	20-OCT-2004 03:50:17	Dark	45.000	84	Alp Phe	2.3970	4500.0	90	13800	No

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



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

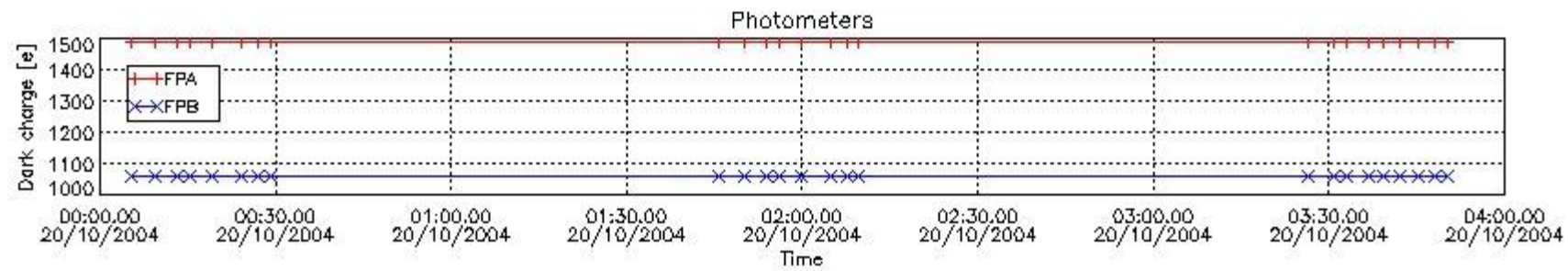
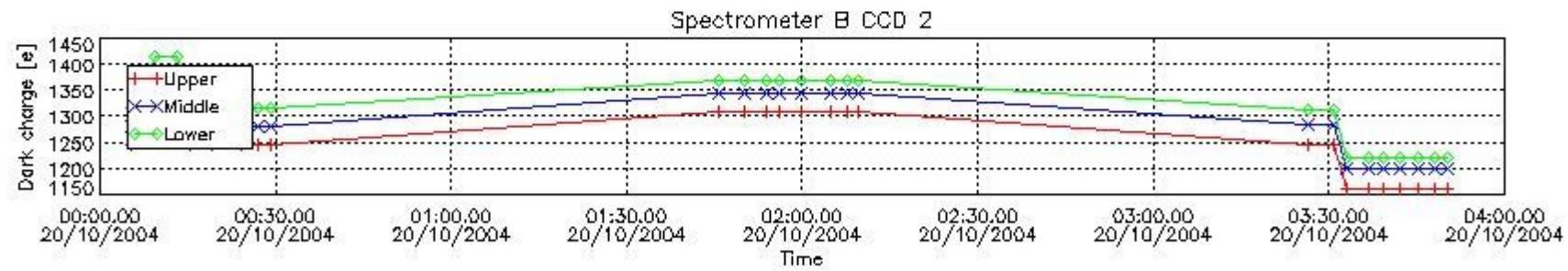
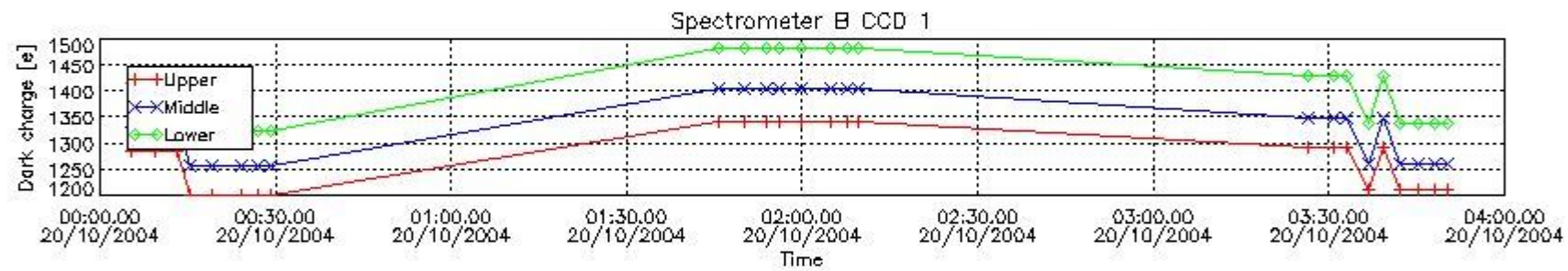
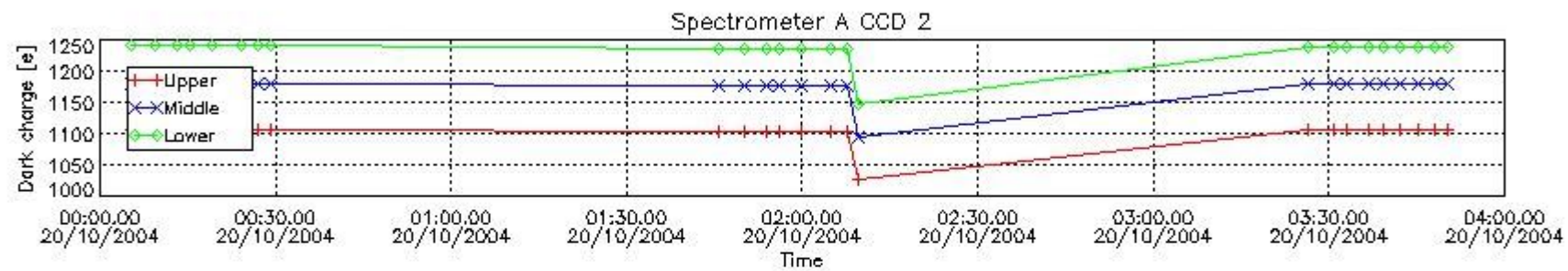
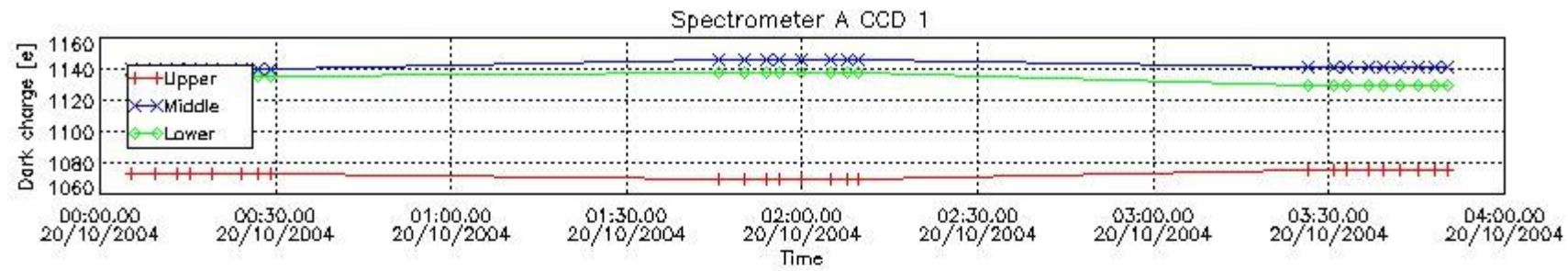
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





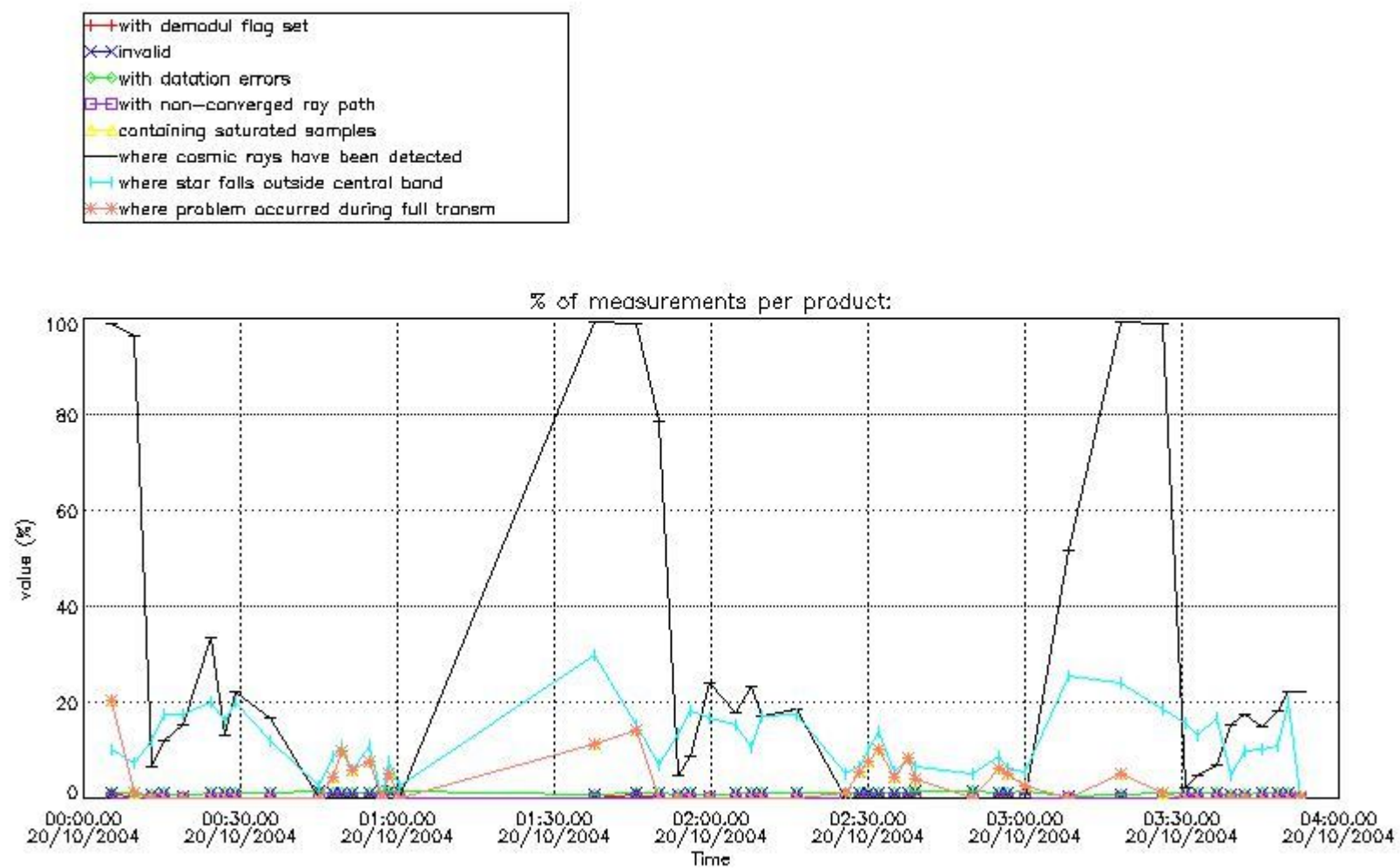
## 5. Demodulation flag and quality information monitoring

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:

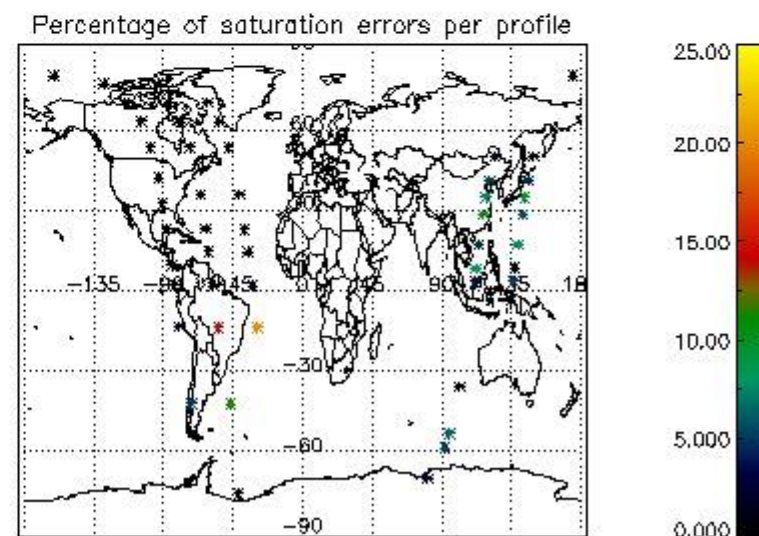
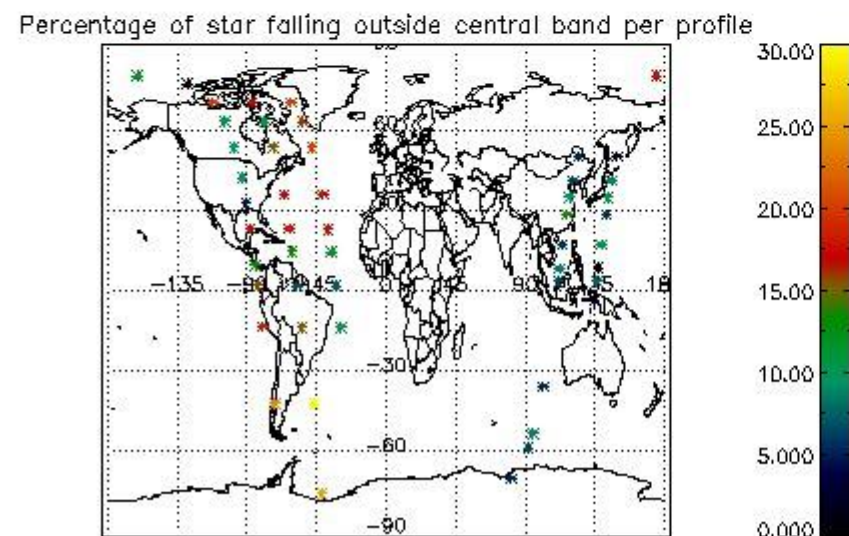
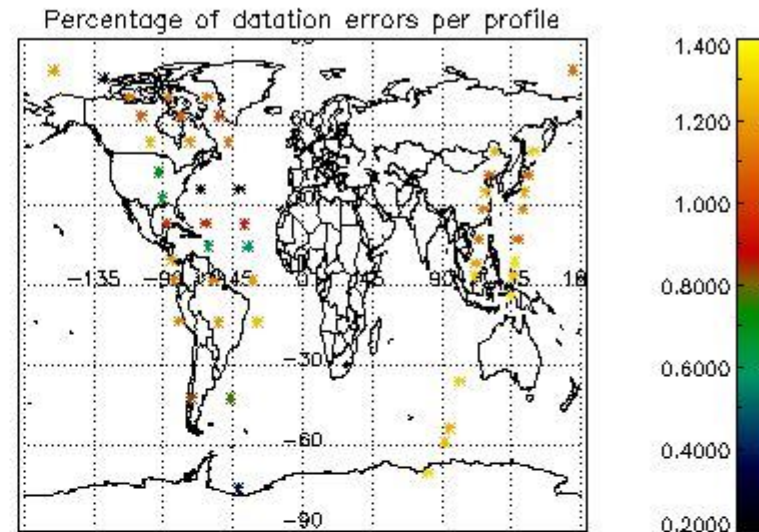
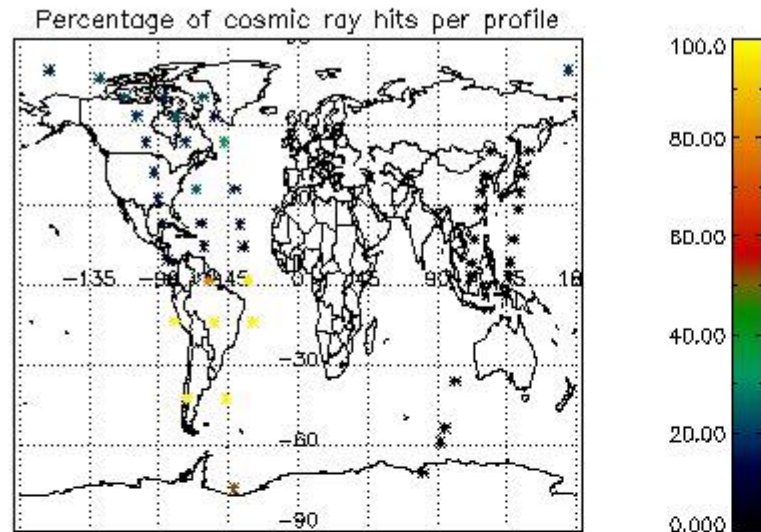
At least one measurement with demodulation flag set:	16.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





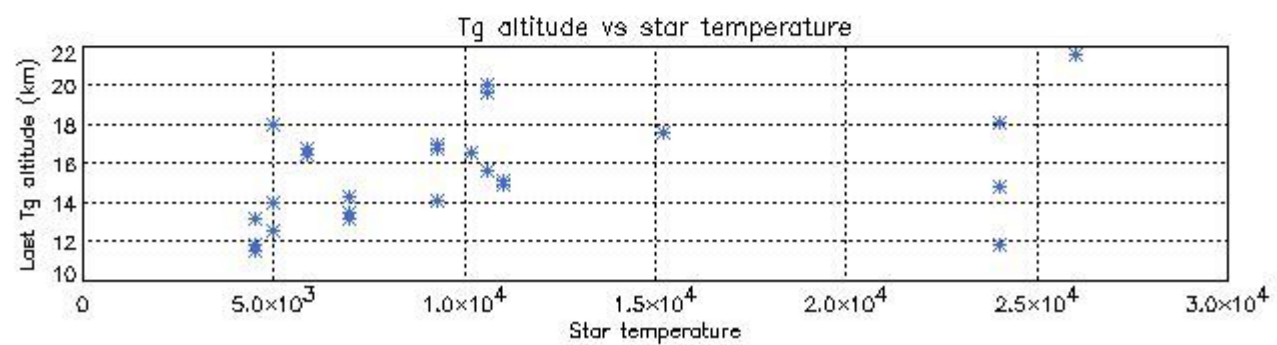
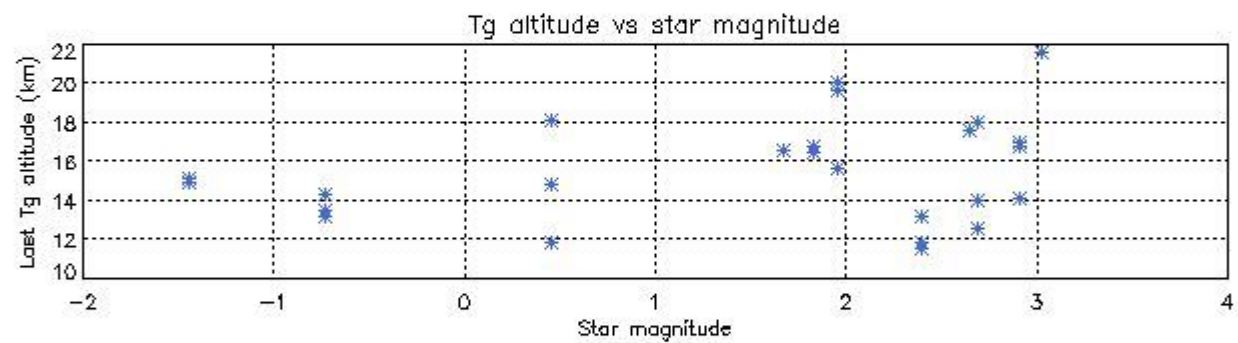
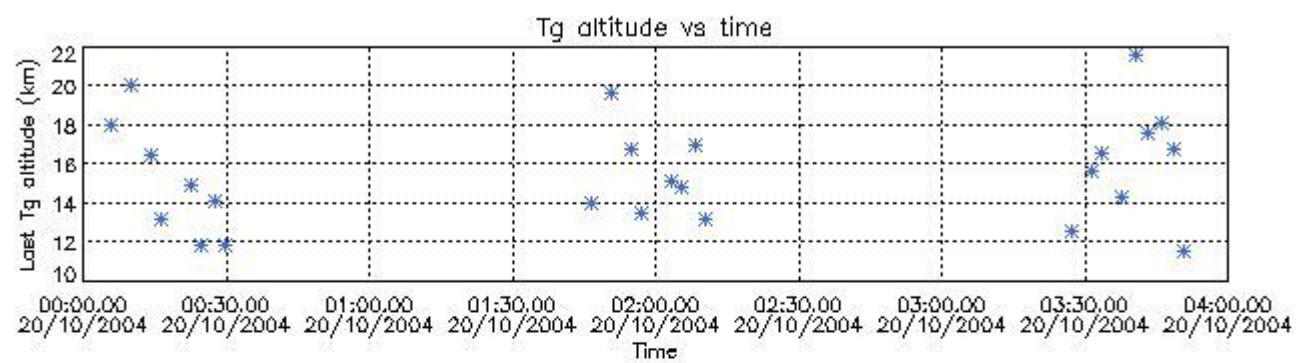
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.562	20.653	8.4947
St. deviation:	2.6757	5.4223	2.3128
Maximum:	21.544	39.077	10.040
Minimum:	11.533	11.720	5.8357
Number of data:	25.000	22.000	3.0000

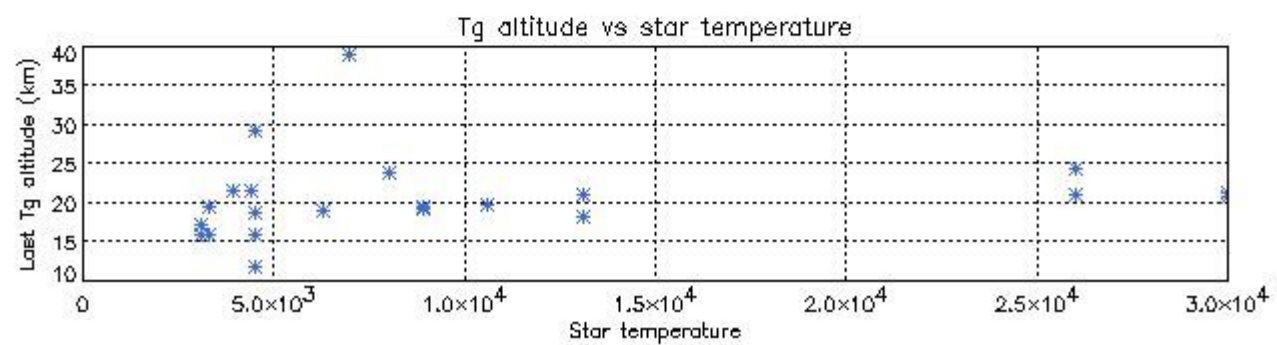
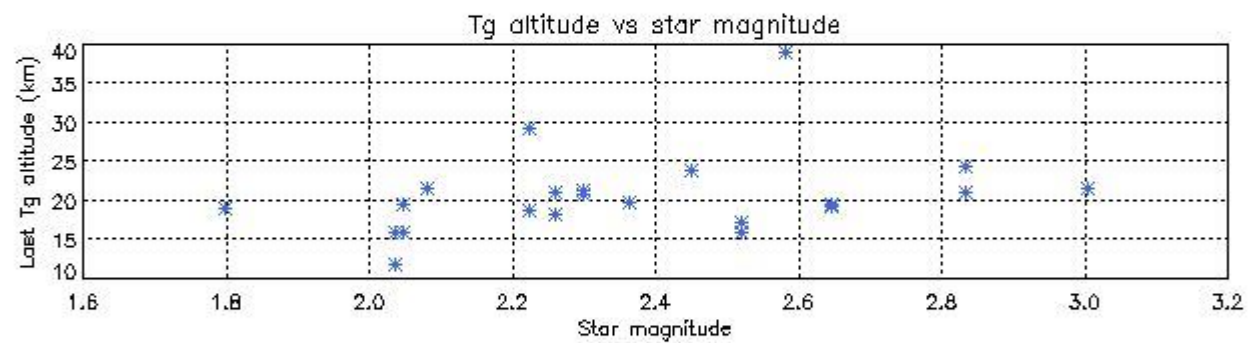
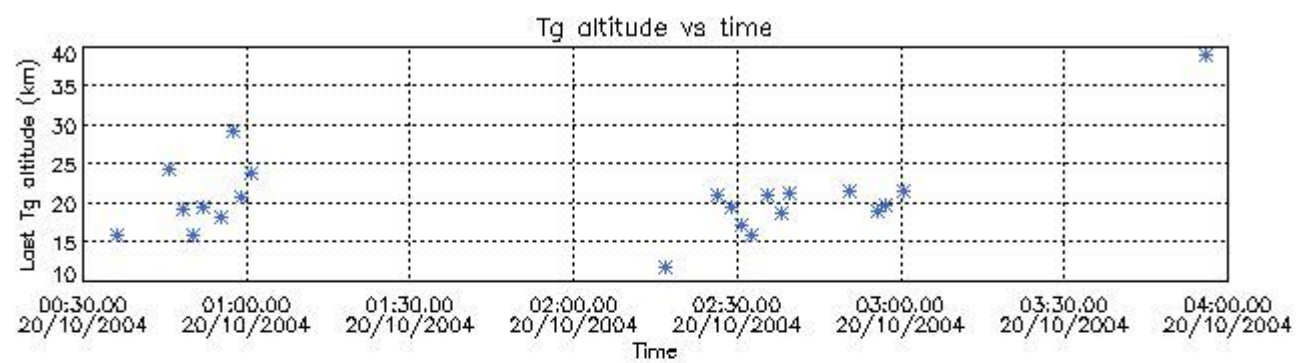
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

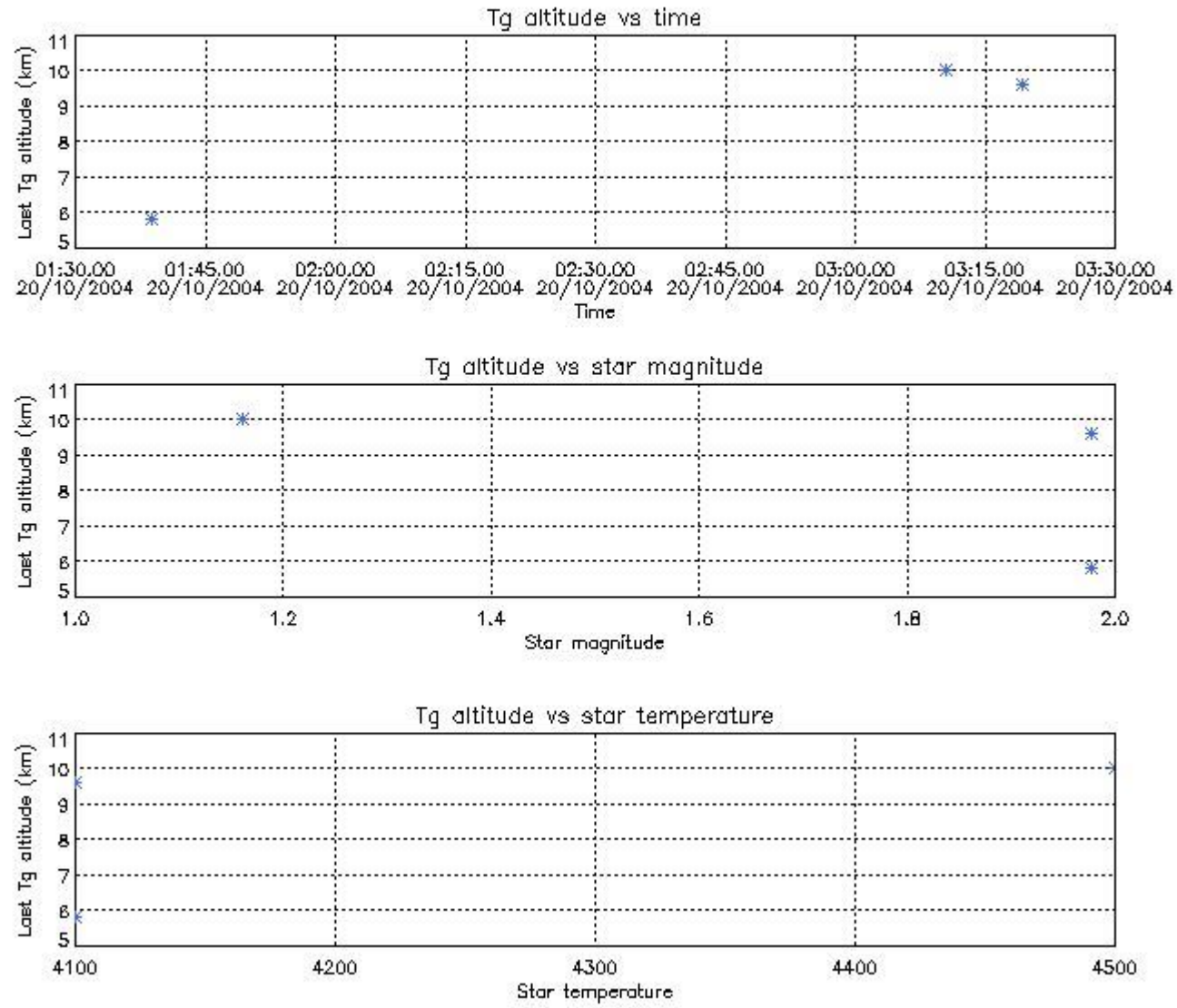
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



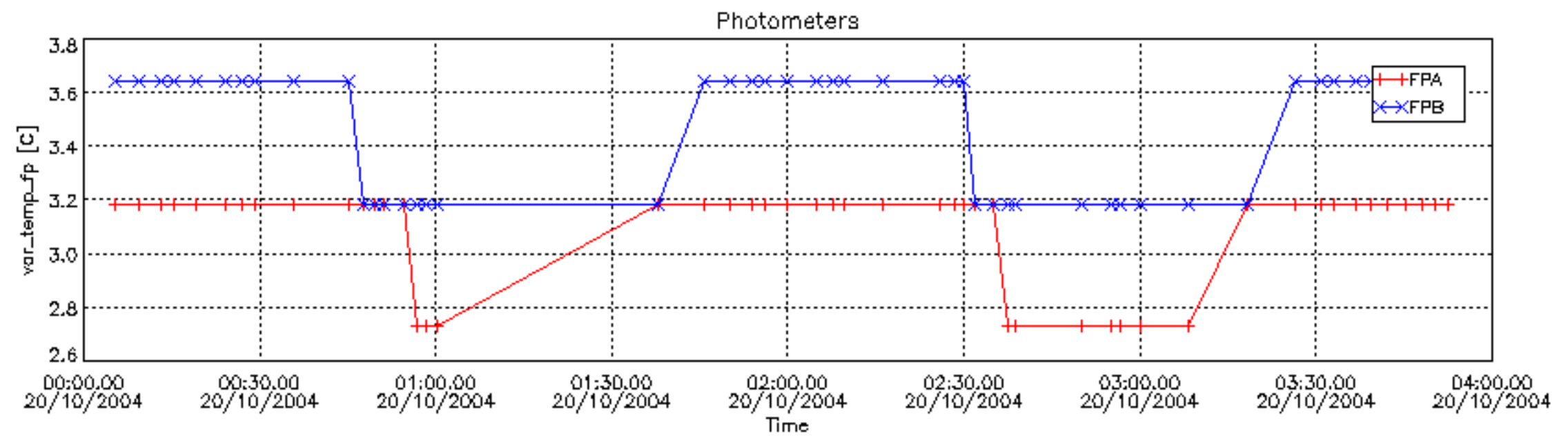
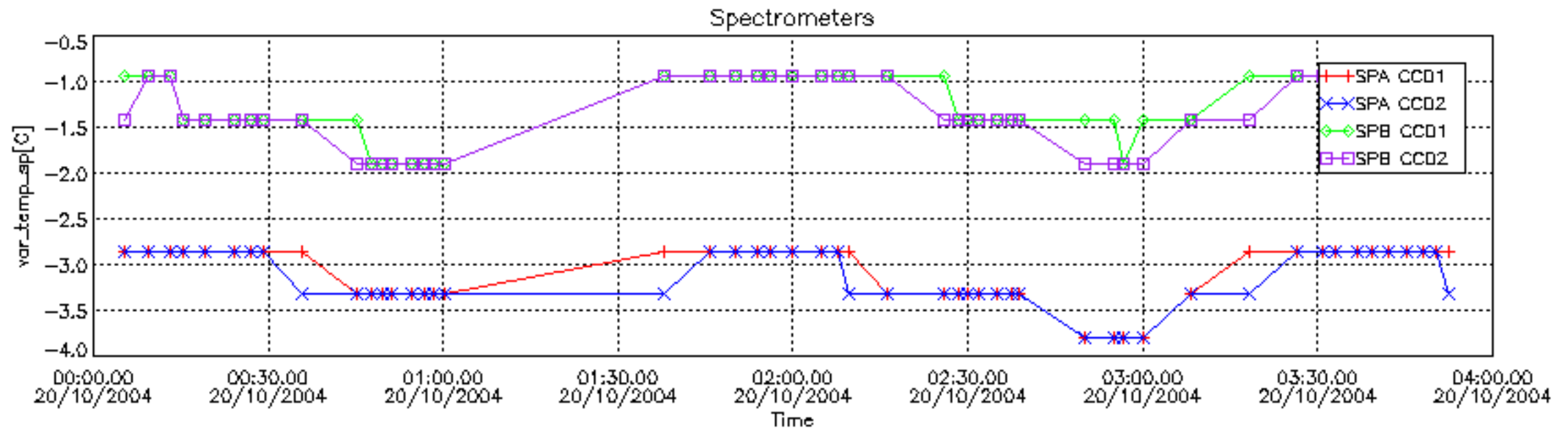
## Tangent altitude at which the star is lost

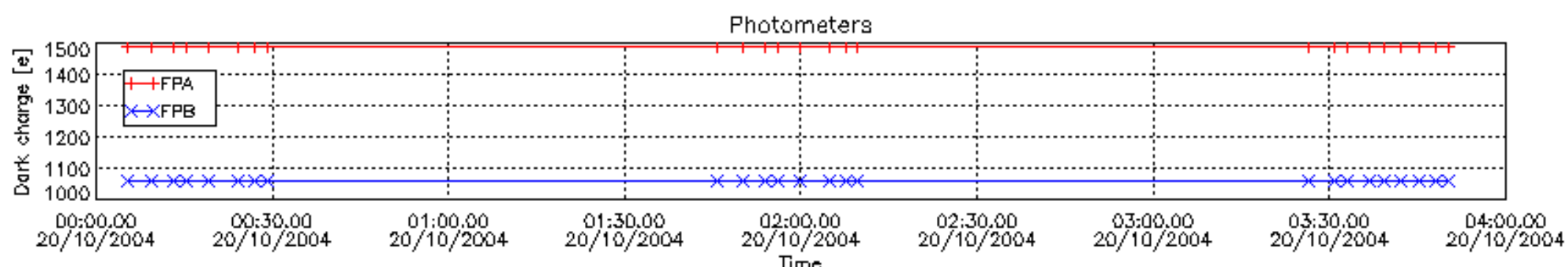
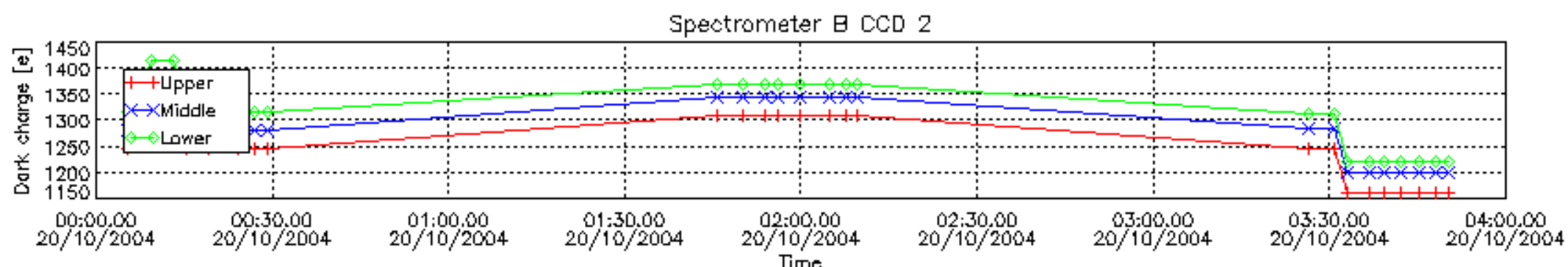
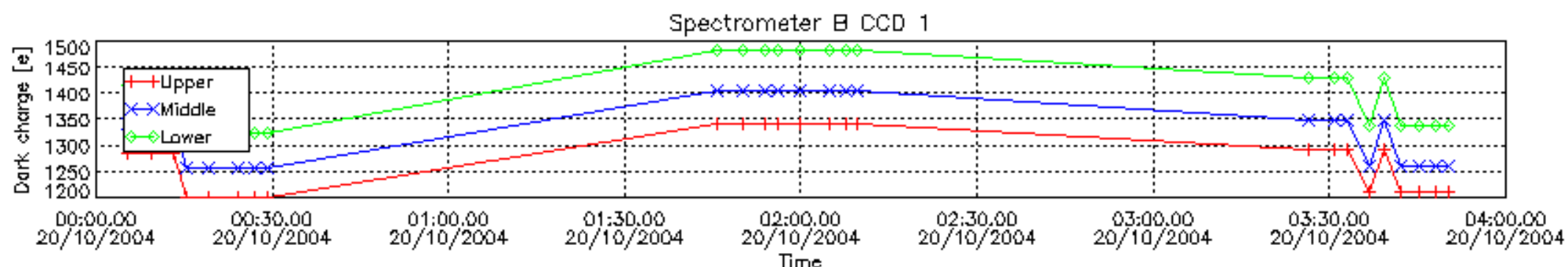
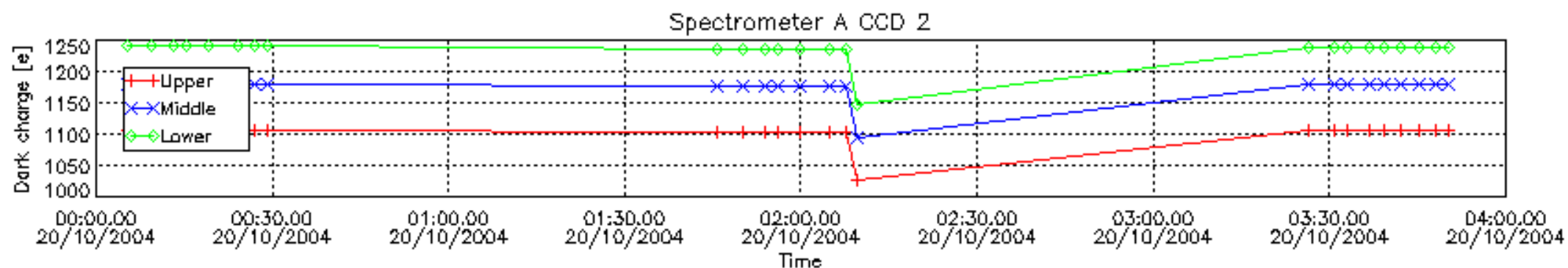
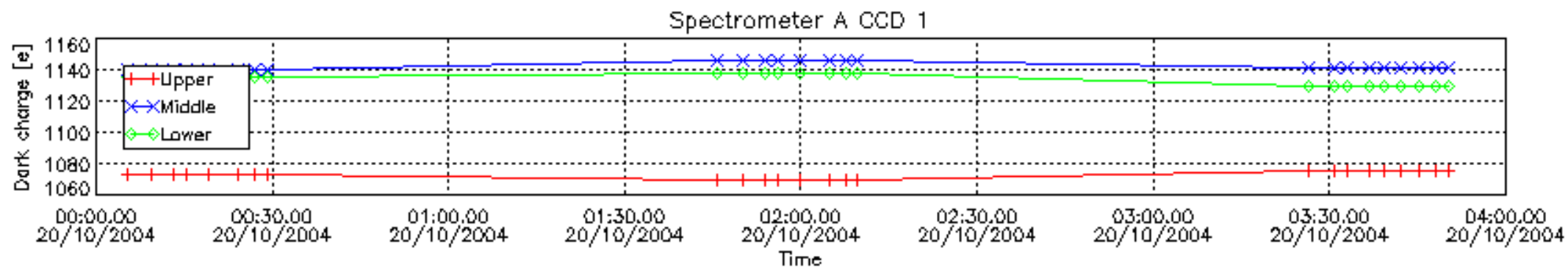


## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1461.8	1448.3	1461.0	1446.8
St. deviation:	4.7290	5.8133	6.2927	7.2461
Maximum:	1574.0	1500.0	1512.0	1498.0
Minimum:	1449.0	1430.0	1442.0	1427.0
Number of data:	40150.	40150.	28900.	28900.

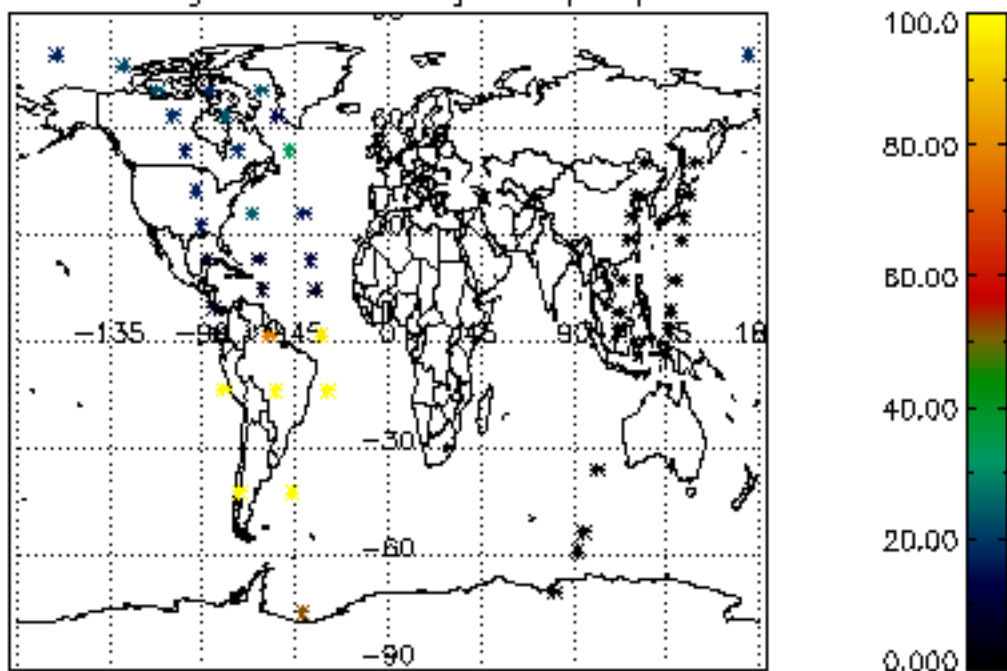




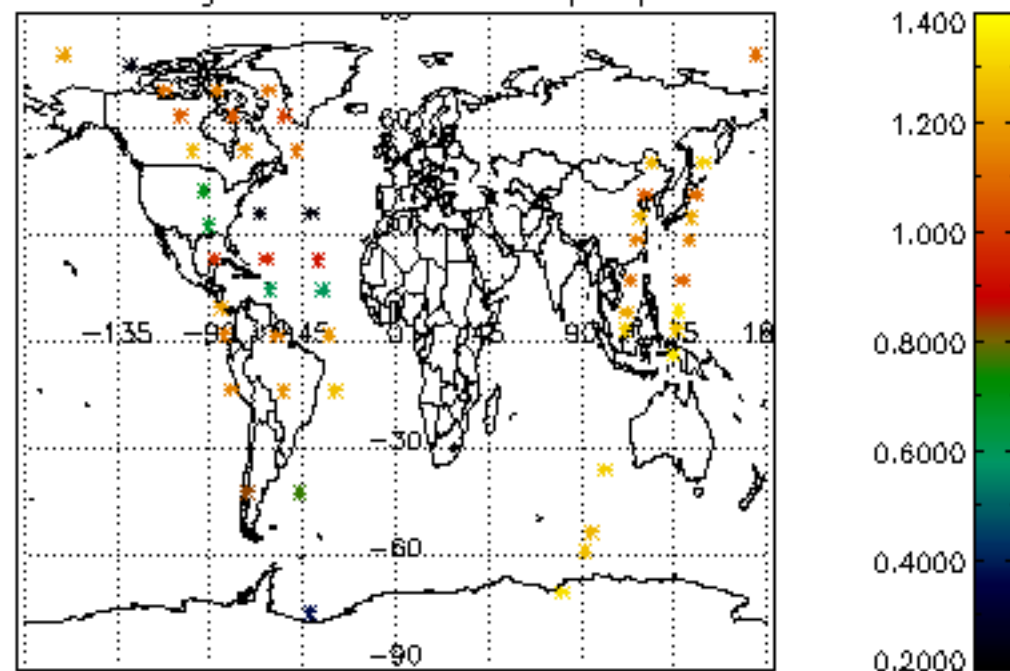




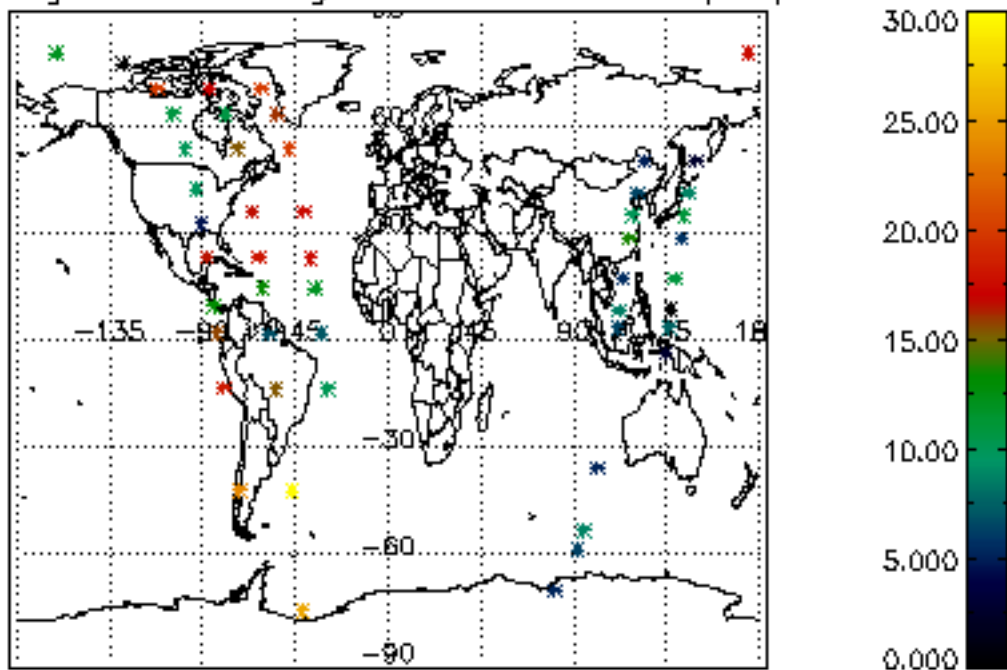
Percentage of cosmic ray hits per profile



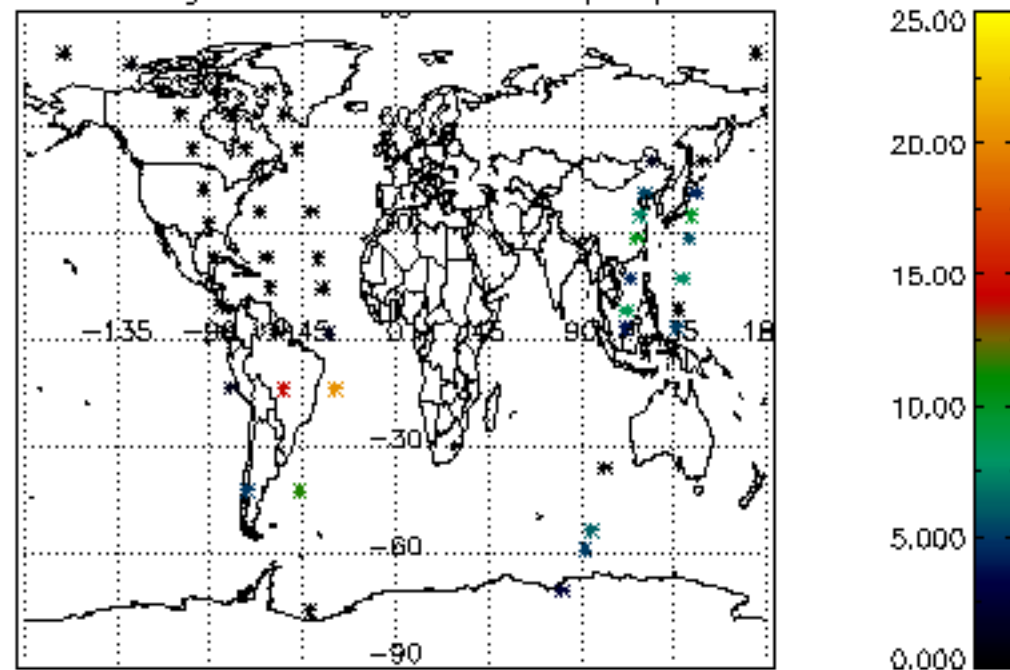
Percentage of datation errors per profile



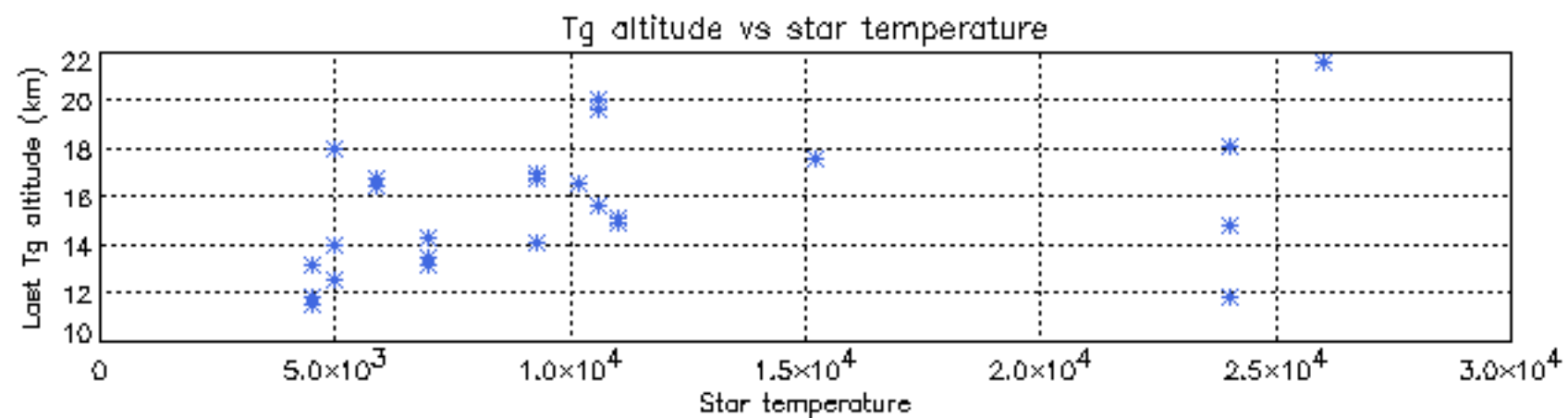
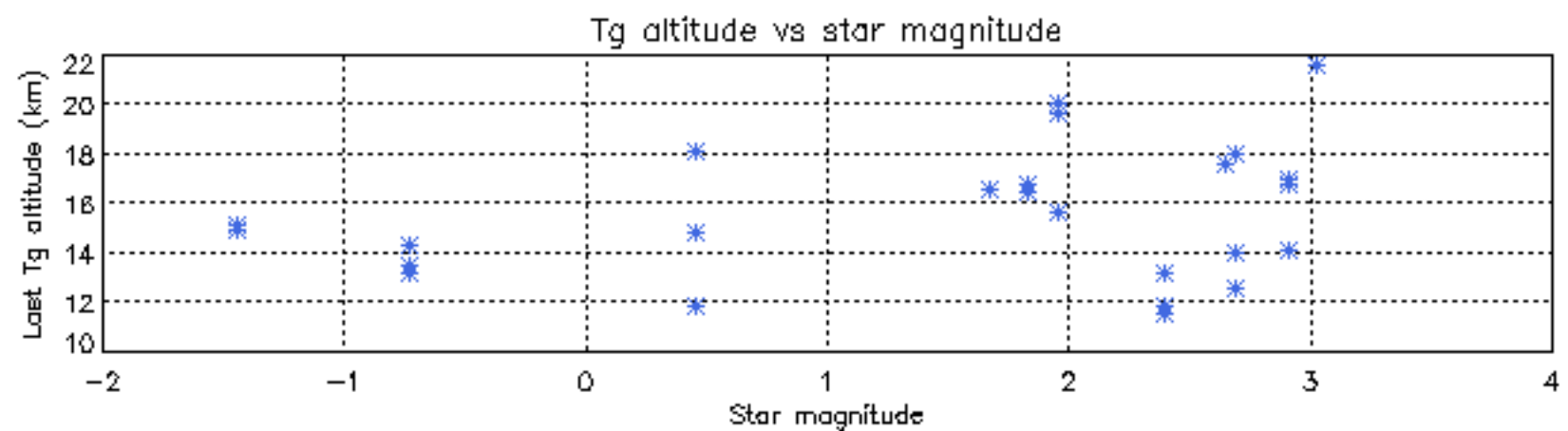
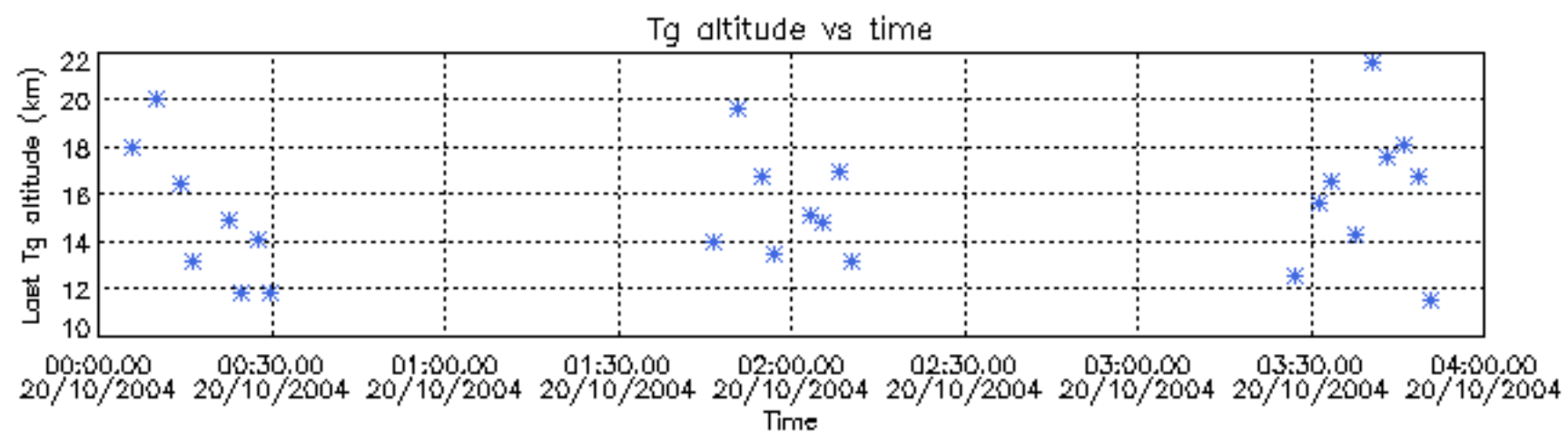
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

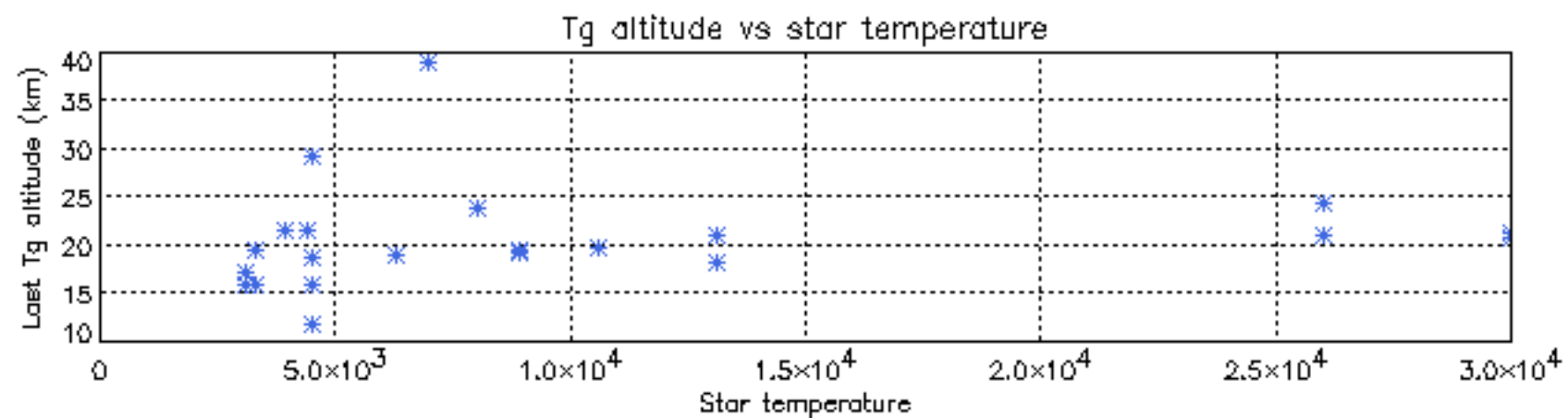
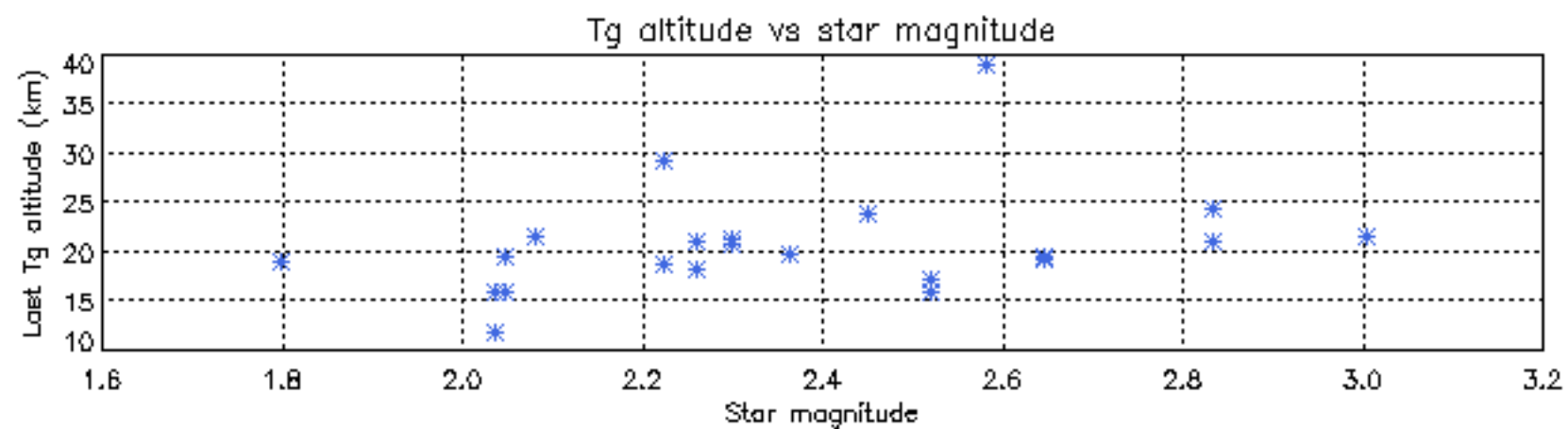
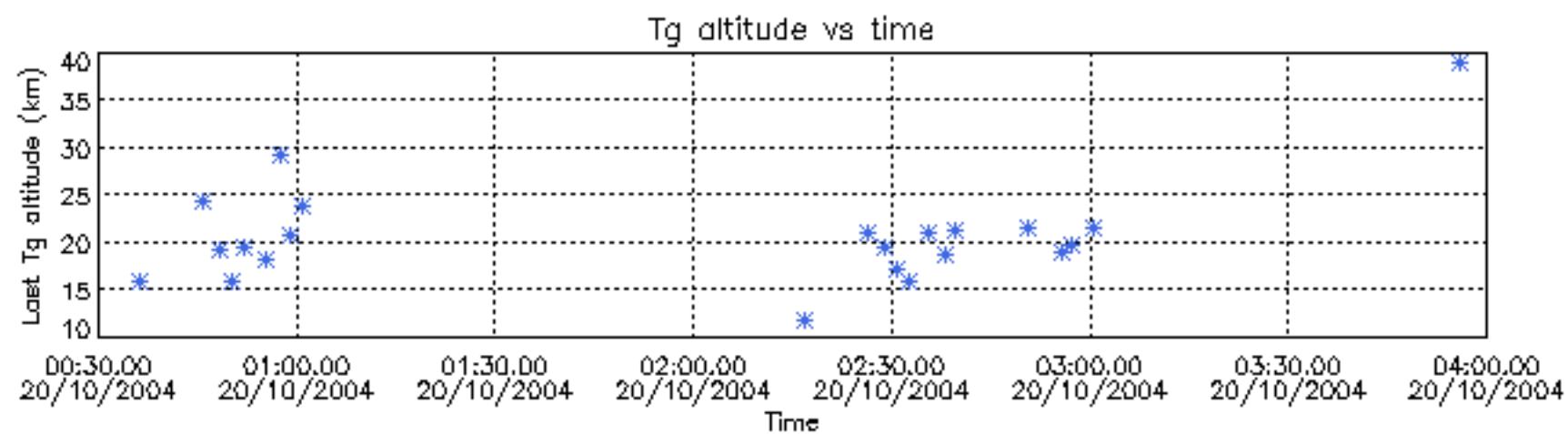


Tangent altitude at which the star is lost

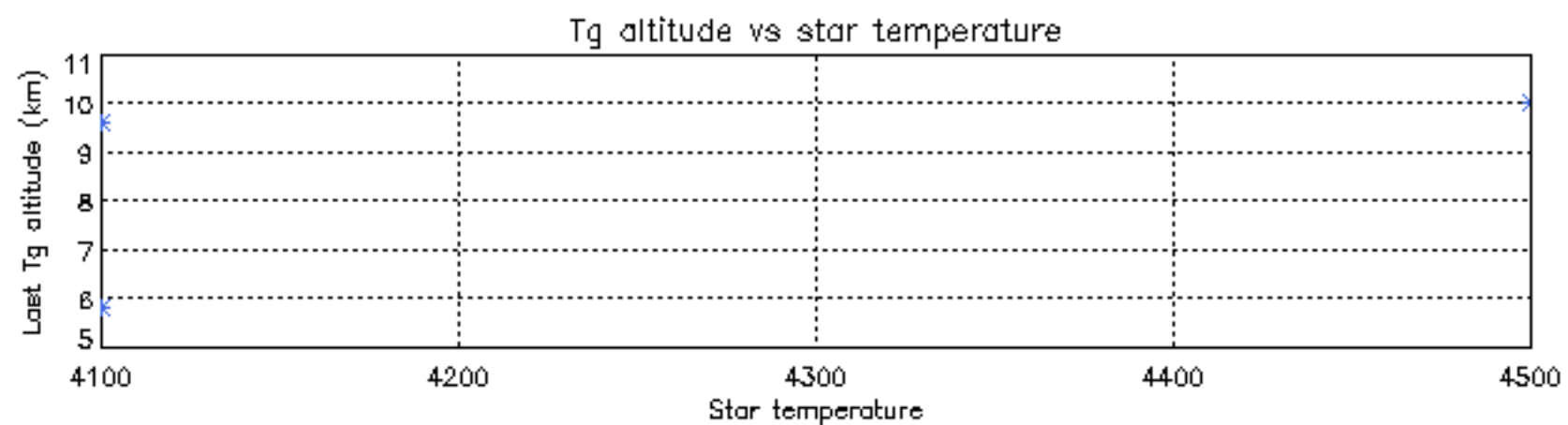
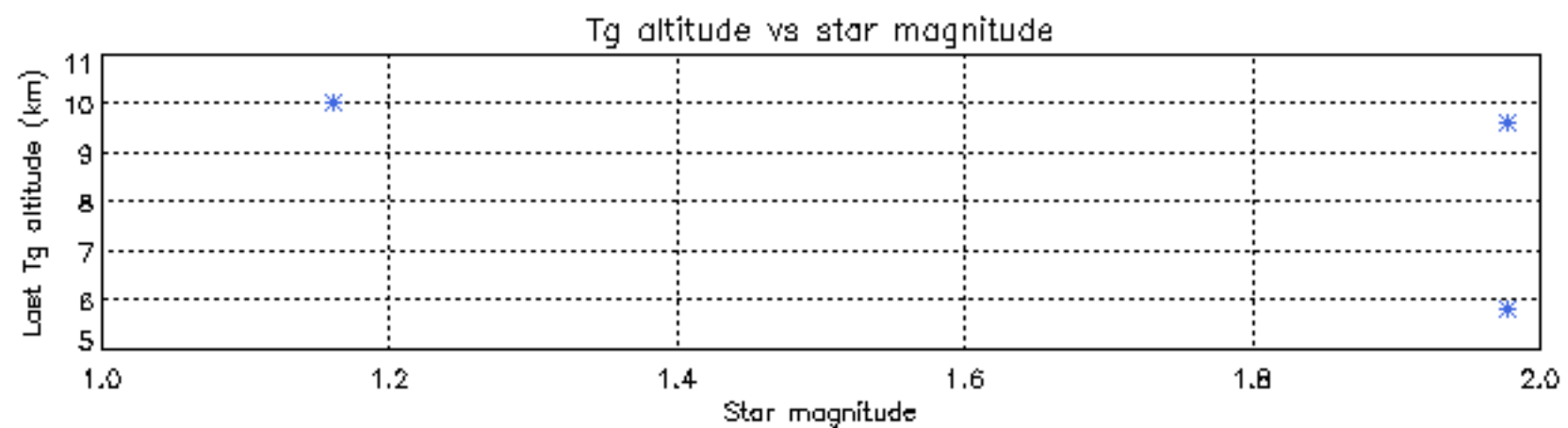
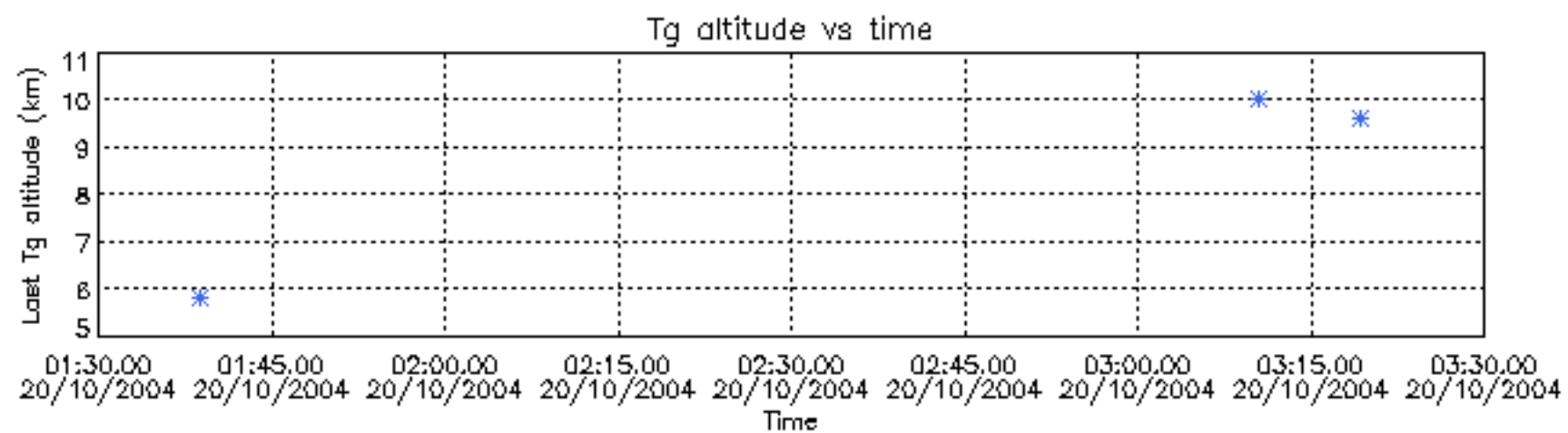




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDE20041001\_013221\_000043242030\_00446\_13526\_0792.N1

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 2; -448.3; 01-OCT-2004 01:39:15; Dark ; 54.0; 132; 15Rho Pup ; 2.80; 6900;occ; 108; 0;13526  
 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  
 5; -37.9; 01-OCT-2004 01:46:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13526  
 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  
 13; 1420.2; 01-OCT-2004 02:10:24; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;13527  
 14; 1556.0; 01-OCT-2004 02:12:40; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;13527  
 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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 3; -2042.4; 01-OCT-2004 02:53:17; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;13527  
 4; -1848.6; 01-OCT-2004 02:56:31; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13527  
 5; -1704.1; 01-OCT-2004 02:58:55; Bright; 94.0; 107; 37The Aur ; 2.65; 11000;occ; 188; 0;13527  
 6; -1523.1; 01-OCT-2004 03:01:56; Bright; 59.5; 24; 66Alp Gem ; 1.58; 10200;occ; 119; 0;13527  
 7; -1234.3; 01-OCT-2004 03:06:45; Dark ; 107.5; 170; 27Eps Gem ; 3.00; 9700;occ; 215; 0;13527  
 8; -867.5; 01-OCT-2004 03:12:52; Dark ; 86.0; 8; 10Alp CMi ; 0.40; 6500;occ; 172; 0;13527  
 9; -447.3; 01-OCT-2004 03:19:52; Dark ; 52.0; 132; 15Rho Pup ; 2.80; 6900;occ; 104; 0;13527  
 10; -293.8; 01-OCT-2004 03:22:26; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 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  
 13; 172.8; 01-OCT-2004 03:30:12; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;13528  
 14; 312.1; 01-OCT-2004 03:32:32; Dark ; 62.5; 108; Alp Col ; 2.65; 15200;occ; 125; 0;13528  
 15; 603.4; 01-OCT-2004 03:37:23; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13528  
 16; 732.7; 01-OCT-2004 03:39:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13528  
 17; 820.0; 01-OCT-2004 03:41:00; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13528  
 18; 918.0; 01-OCT-2004 03:42:37; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;13528  
 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  
 21; 1555.6; 01-OCT-2004 03:53:15; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;13528  
 22; 1944.5; 01-OCT-2004 03:59:44; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;13528  
 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  
 29; 3262.7; 01-OCT-2004 04:21:42; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;13528  
 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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 4; -1705.0; 01-OCT-2004 04:39:31; Bright; 90.5; 107; 37The Aur ; 2.65; 11000;occ; 181; 0;13528  
 5; -1523.7; 01-OCT-2004 04:42:32; Bright; 59.0; 24; 66Alp Gem ; 1.58; 10200;occ; 118; 0;13528  
 6; -1233.6; 01-OCT-2004 04:47:22; Dark ; 109.0; 170; 27Eps Gem ; 3.00; 9700;occ; 218; 0;13528  
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 8; -446.4; 01-OCT-2004 05:00:29; Dark ; 51.0; 132; 15Rho Pup ; 2.80; 6900;occ; 102; 0;13528  
 9; -293.5; 01-OCT-2004 05:03:02; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;13528  
 10; -137.5; 01-OCT-2004 05:05:38; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;13528  
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14; 603.4; 01-OCT-2004 05:17:59; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13529
15; 733.3; 01-OCT-2004 05:20:09; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13529
16; 820.4; 01-OCT-2004 05:21:36; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;13529
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18; 1141.7; 01-OCT-2004 05:26:57; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;13529
19; 1420.1; 01-OCT-2004 05:31:36; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;13529
20; 1556.3; 01-OCT-2004 05:33:52; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;13529
21; 1944.6; 01-OCT-2004 05:40:20; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;13529
22; 2166.4; 01-OCT-2004 05:44:02; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13529
23; 2385.0; 01-OCT-2004 05:47:41; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;13529
24; 2519.0; 01-OCT-2004 05:49:55; Bright; 66.0; 105; 6Bet Ari ; 2.64; 8900;occ; 132; 0;13529
25; 2653.3; 01-OCT-2004 05:52:09; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;13529
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27; 3027.0; 01-OCT-2004 05:58:23; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13529
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29; 3426.7; 01-OCT-2004 06:05:02; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13529
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 3; 1142.5; 01-OCT-2004 20:32:22; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13538
 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
 8; 2385.0; 01-OCT-2004 20:53:04; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;13538
 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
18; 4190.1; 01-OCT-2004 21:23:09; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;13538
19; 4327.2; 01-OCT-2004 21:25:26; Bright; 100.0; 107; 37The Aur ; 2.65; 11000;occ; 200; 0;13538
20; 4512.6; 01-OCT-2004 21:28:32; Bright; 63.0; 24; 66Alp Gem ; 1.58; 10200;occ; 126; 0;13538
21; 4811.6; 01-OCT-2004 21:33:31; Dark ; 106.0; 170; 27Eps Gem ; 3.00; 9700;occ; 212; 0;13538
22; 5177.4; 01-OCT-2004 21:39:37; Dark ; 87.5; 8; 10Alp CMi ; 0.40; 6500;occ; 175; 0;13538
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 7; 100.6; 01-OCT-2004 21:55:36; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;13539
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10; 737.0; 01-OCT-2004 22:06:12; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13539
11; 823.6; 01-OCT-2004 22:07:39; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;13539
12; 925.3; 01-OCT-2004 22:09:20; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;13539
13; 1142.3; 01-OCT-2004 22:12:57; Dark ; 45.0; 63; Bet Gru ; 2.15; 2800;occ; 90; 0;13539
14; 1421.7; 01-OCT-2004 22:17:37; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;13539
15; 1557.1; 01-OCT-2004 22:19:52; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;13539
16; 1947.0; 01-OCT-2004 22:26:22; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;13539
17; 2167.0; 01-OCT-2004 22:30:02; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;13539
18; 2384.6; 01-OCT-2004 22:33:40; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;13539
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20; 2646.9; 01-OCT-2004 22:38:02; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;13539
21; 2945.6; 01-OCT-2004 22:43:01; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;13539
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
24; 3426.7; 01-OCT-2004 22:51:02; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13539
25; 3554.3; 01-OCT-2004 22:53:09; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;13539

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26; 3905.6; 01-OCT-2004 22:59:01; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;13539
27; 3995.6; 01-OCT-2004 23:00:31; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;13539
28; 4189.9; 01-OCT-2004 23:03:45; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;13539
29; 4326.7; 01-OCT-2004 23:06:02; Bright; 93.5; 107; 37The Aur ; 2.65; 11000;occ; 187; 0;13539
30; 4513.9; 01-OCT-2004 23:09:09; Bright; 60.0; 24; 66Alp Gem ; 1.58; 10200;occ; 120; 0;13539
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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 8; 604.5; 01-OCT-2004 23:44:35; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;13540
 9; 737.2; 01-OCT-2004 23:46:48; Dark ; 42.5; 143; Alp Hyi ; 2.86; 7200;occ; 85; 0;13540
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11; 926.1; 01-OCT-2004 23:49:57; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;13540
12; 1144.4; 01-OCT-2004 23:53:35; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;13540
13; 1421.2; 01-OCT-2004 23:58:12; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;13540
14; 1557.3; 02-OCT-2004 00:00:28; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;13540
15; 1947.0; 02-OCT-2004 00:06:58; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;13540
16; 2166.7; 02-OCT-2004 00:10:38; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;13540
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8;	-419.7;	03-OCT-2004	07:18:54;	Dark	;	52.0;	132;	15Rho Pup	;	2.80;	6900;occ;	104;	0;	13558
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21;	4011.6;	21-OCT-2004	00:44:18;	Bright;		37.5;	82;	48Bet UMa	;	2.37;	10600;occ;	75;	0;	13812
22;	4221.2;	21-OCT-2004	00:47:48;	Bright;		37.5;	174;	52Psi UMa	;	3.00;	4400;occ;	75;	0;	13812
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23;	238.7;	23-OCT-2004	15:24:11;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	13850
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25;	634.5;	23-OCT-2004	15:30:47;	Dark	; 76.5;	177;	1Zet CMA	; 3.02;	26000;occ;	153;	0;	13850
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