

# GOMOS Daily Report 03-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	05OCT2004 05:01:38
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (03OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (04OCT2004 00:00:00)

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

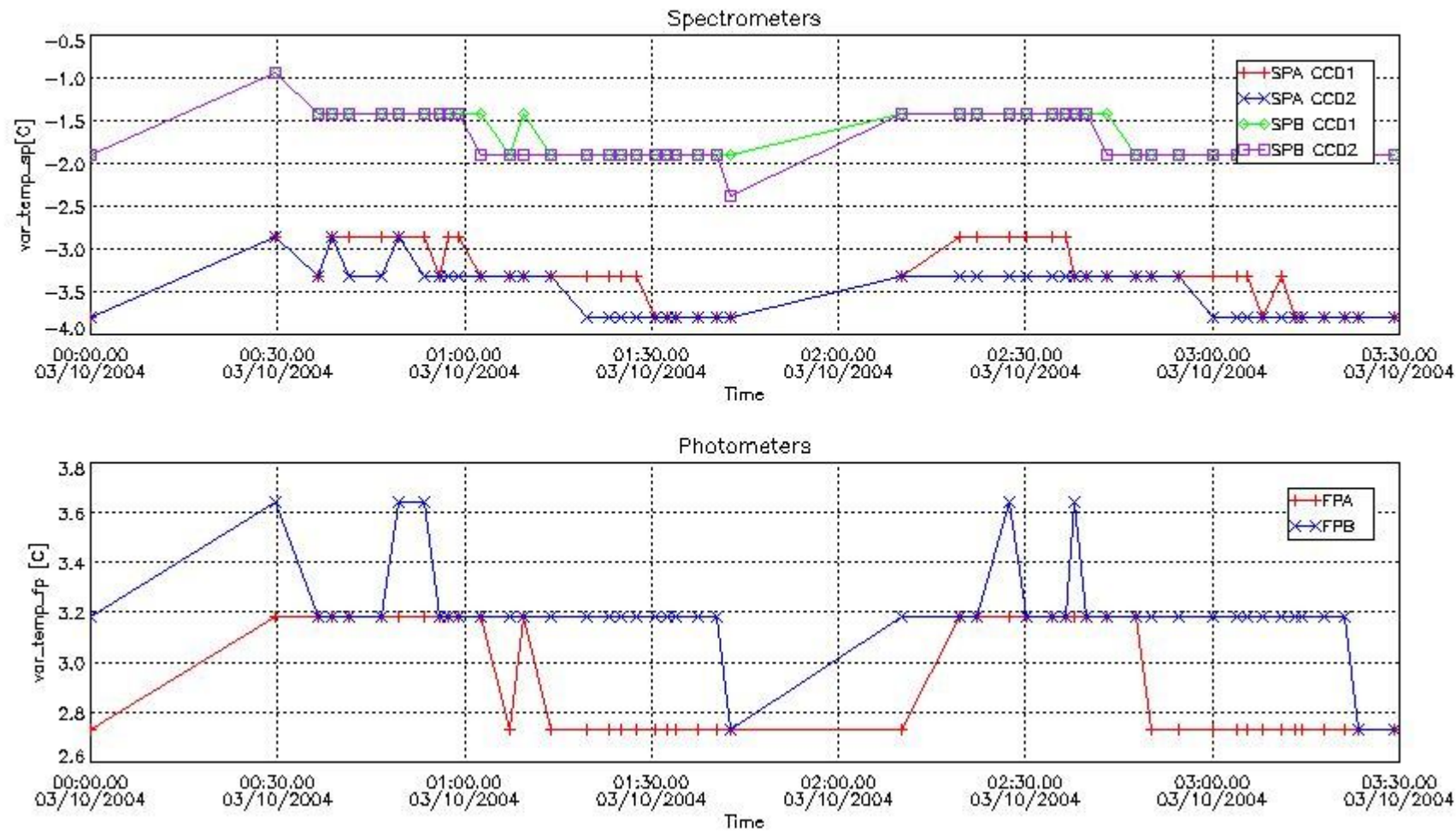
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20041003_000001_000000352030_00474_13554_0021.N1	03-OCT-2004 00:00:01	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	13554	No
GOM_TRA_1PNPDE20041003_002933_000000832030_00474_13554_0000.N1	03-OCT-2004 00:29:33	Dark	82.500	8	10Alp CMi	0.40000	6500.0	165	13554	Yes
GOM_TRA_1PNPDE20041003_003626_000000472030_00474_13554_0001.N1	03-OCT-2004 00:36:26	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	13554	No
GOM_TRA_1PNPDE20041003_003846_000000492030_00474_13554_0002.N1	03-OCT-2004 00:38:46	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	13554	No
GOM_TRA_1PNPDE20041003_004128_000000482030_00474_13554_0003.N1	03-OCT-2004 00:41:28	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	13554	No
GOM_TRA_1PNPDE20041003_004643_000000572030_00475_13555_0004.N1	03-OCT-2004 00:46:43	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	13555	No
GOM_TRA_1PNPDE20041003_004923_000000642030_00475_13555_0005.N1	03-OCT-2004 00:49:23	Dark	63.500	108	Alp Col	2.6520	15200.	127	13555	No
GOM_TRA_1PNPDE20041003_005336_000000402030_00475_13555_0006.N1	03-OCT-2004 00:53:36	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	13555	No
GOM_TRA_1PNPDE20041003_005553_000000432030_00475_13555_0007.N1	03-OCT-2004 00:55:53	Dark	42.500	143	Alp Hyi	2.8570	7200.0	85	13555	No
GOM_TRA_1PNPDE20041003_005720_000000542030_00475_13555_0008.N1	03-OCT-2004 00:57:20	Dark	54.000	9	Alp Eri	0.45300	24000.	108	13555	No
GOM_TRA_1PNPDE20041003_005906_000000532030_00475_13555_0009.N1	03-OCT-2004 00:59:06	Dark	53.000	157	The1Eri	2.9060	9300.0	106	13555	No
GOM_TRA_1PNPDE20041003_010235_000000522030_00475_13555_0010.N1	03-OCT-2004 01:02:35	Twilight	52.000	63	Bet Gru	2.1500	2800.0	104	13555	No
GOM_TRA_1PNPDE20041003_010715_000000452030_00475_13555_0011.N1	03-OCT-2004 01:07:15	Bright	45.000	18	24Alp PsA	1.1660	9700.0	90	13555	No
GOM_TRA_1PNPDE20041003_010928_000000492030_00475_13555_0012.N1	03-OCT-2004 01:09:28	Bright	49.000	52	16Bet Cet	2.0370	4500.0	98	13555	No
GOM_TRA_1PNPDE20041003_011357_000001242030_00475_13555_0013.N1	03-OCT-2004 01:13:57	Twilight	124.00	165	34Gam Eri	2.9500	3200.0	248	13555	No
GOM_TRA_1PNPDE20041003_011935_000000422030_00475_13555_0014.N1	03-OCT-2004 01:19:35	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	13555	No
GOM_TRA_1PNPDE20041003_012315_000000392030_00475_13555_0015.N1	03-OCT-2004 01:23:15	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	13555	No
GOM_TRA_1PNPDE20041003_012500_000000612030_00475_13555_0016.N1	03-OCT-2004 01:25:00	Bright	61.000	105	6Bet Ari	2.6450	8900.0	122	13555	No
GOM_TRA_1PNPDE20041003_012726_000000522030_00475_13555_0017.N1	03-OCT-2004 01:27:26	Bright	51.500	53	43Bet And	2.0480	3300.0	103	13555	No
GOM_TRA_1PNPDE20041003_013031_000000572030_00475_13555_0018.N1	03-OCT-2004 01:30:31	Bright	56.500	173	4Bet Tri	3.0040	8900.0	113	13555	No
GOM_TRA_1PNPDE20041003_013231_000000412030_00475_13555_0019.N1	03-OCT-2004 01:32:31	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	13555	No
GOM_TRA_1PNPDE20041003_013347_000000412030_00475_13555_0020.N1	03-OCT-2004 01:33:47	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	13555	No
GOM_TRA_1PNPDE20041003_013727_000000492030_00475_13555_0021.N1	03-OCT-2004 01:37:27	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	13555	No
GOM_TRA_1PNPDE20041003_014035_000000382030_00475_13555_0022.N1	03-OCT-2004 01:40:35	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	13555	No
GOM_TRA_1PNPDE20041003_014246_000000442030_00475_13555_0023.N1	03-OCT-2004 01:42:46	Bright	43.500	60	7Bet UMi	2.0810	3950.0	87	13555	No
GOM_TRA_1PNPDE20041003_021010_000000922030_00475_13555_0000.N1	03-OCT-2004 02:10:10	Dark	92.000	8	10Alp CMi	0.40000	6500.0	184	13555	No
GOM_TRA_1PNPDE20041003_021923_000000512030_00475_13555_0001.N1	03-OCT-2004 02:19:23	Dark	50.500	65	Lam Vel	2.2040	4400.0	101	13555	No
GOM_TRA_1PNPDE20041003_022205_000000442030_00475_13555_0002.N1	03-OCT-2004 02:22:05	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	13555	No
GOM_TRA_1PNPDE20041003_022718_000000512030_00476_13556_0003.N1	03-OCT-2004 02:27:18	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	13556	No
GOM_TRA_1PNPDE20041003_023001_000000672030_00476_13556_0004.N1	03-OCT-2004 02:30:01	Dark	67.000	108	Alp Col	2.6520	15200.	134	13556	No
GOM_TRA_1PNPDE20041003_023412_000000402030_00476_13556_0005.N1	03-OCT-2004 02:34:12	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	13556	No
GOM_TRA_1PNPDE20041003_023629_000000412030_00476_13556_0006.N1	03-OCT-2004 02:36:29	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	13556	No
GOM_TRA_1PNPDE20041003_023756_000000432030_00476_13556_0007.N1	03-OCT-2004 02:37:56	Dark	43.000	9	Alp Eri	0.45300	24000.	86	13556	No
GOM_TRA_1PNPDE20041003_023943_000000522030_00476_13556_0008.N1	03-OCT-2004 02:39:43	Dark	51.500	157	The1Eri	2.9060	9300.0	103	13556	No
GOM_TRA_1PNPDE20041003_024311_000000522030_00476_13556_0009.N1	03-OCT-2004 02:43:11	Twilight	52.000	63	Bet Gru	2.1500	2800.0	104	13556	No
GOM_TRA_1PNPDE20041003_024751_000000422030_00476_13556_0010.N1	03-OCT-2004 02:47:51	Bright	41.500	18	24Alp PsA	1.1660	9700.0	83	13556	No
GOM_TRA_1PNPDE20041003_025004_000000542030_00476_13556_0011.N1	03-OCT-2004 02:50:04	Bright	53.500	52	16Bet Cet	2.0370	4500.0	107	13556	No
GOM_TRA_1PNPDE20041003_025429_000001242030_00476_13556_0012.N1	03-OCT-2004 02:54:29	Twilight	124.00	165	34Gam Eri	2.9500	3200.0	248	13556	No
GOM_TRA_1PNPDE20041003_030012_000000412030_00476_13556_0013.N1	03-OCT-2004 03:00:12	Bright	41.000	90	54Alp Peg	2.4870	11000.	82	13556	No
GOM_TRA_1PNPDE20041003_030351_000000382030_00476_13556_0014.N1	03-OCT-2004 03:03:51	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	13556	No
GOM_TRA_1PNPDE20041003_030535_000000602030_00476_13556_0015.N1	03-OCT-2004 03:05:35	Bright	59.500	105	6Bet Ari	2.6450	8900.0	119	13556	No
GOM_TRA_1PNPDE20041003_030802_000000462030_00476_13556_0016.N1	03-OCT-2004 03:08:02	Bright	46.000	53	43Bet And	2.0480	3300.0	92	13556	No
GOM_TRA_1PNPDE20041003_031105_000000582030_00476_13556_0017.N1	03-OCT-2004 03:11:05	Bright	57.500	173	4Bet Tri	3.0040	8900.0	115	13556	No
GOM_TRA_1PNPDE20041003_031307_000000372030_00476_13556_0018.N1	03-OCT-2004 03:13:07	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	13556	No
GOM_TRA_1PNPDE20041003_031422_000000422030_00476_13556_0019.N1	03-OCT-2004 03:14:22	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	13556	No
GOM_TRA_1PNPDE20041003_031802_000000532030_00476_13556_0020.N1	03-OCT-2004 03:18:02	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	13556	No
GOM_TRA_1PNPDE20041003_032109_000000402030_00476_13556_0021.N1	03-OCT-2004 03:21:09	Bright	40.000	49	1Alp UMi	1.9900	6300.0	80	13556	No
GOM_TRA_1PNPDE20041003_032324_000000392030_00476_13556_0000.N1	03-OCT-2004 03:23:24	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	13556	No
GOM_TRA_1PNPDE20041003_032913_000000392030_00476_13556_0001.N1	03-OCT-2004 03:29:13	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	13556	No

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



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

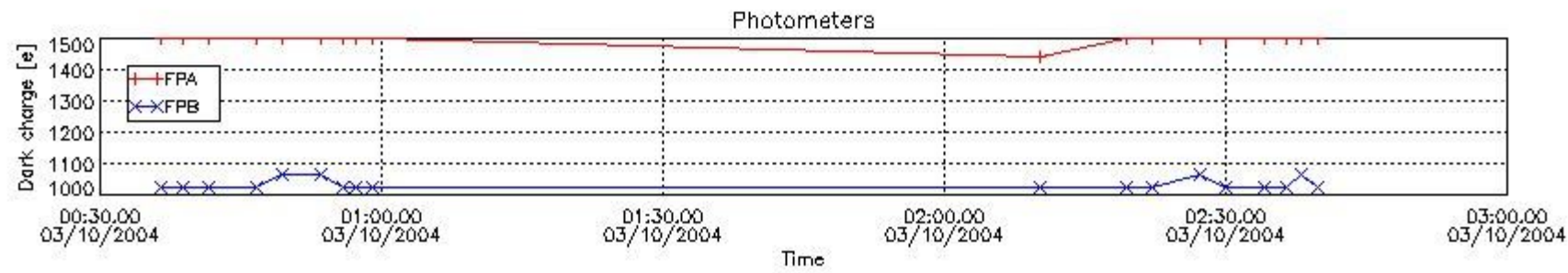
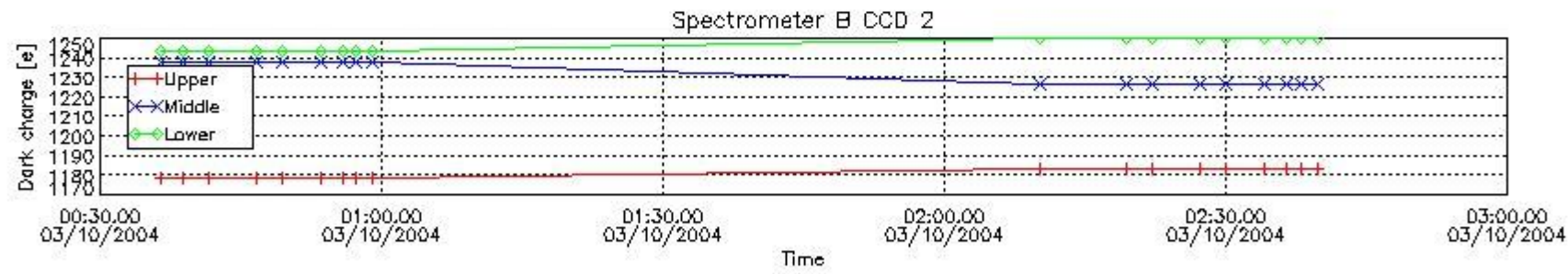
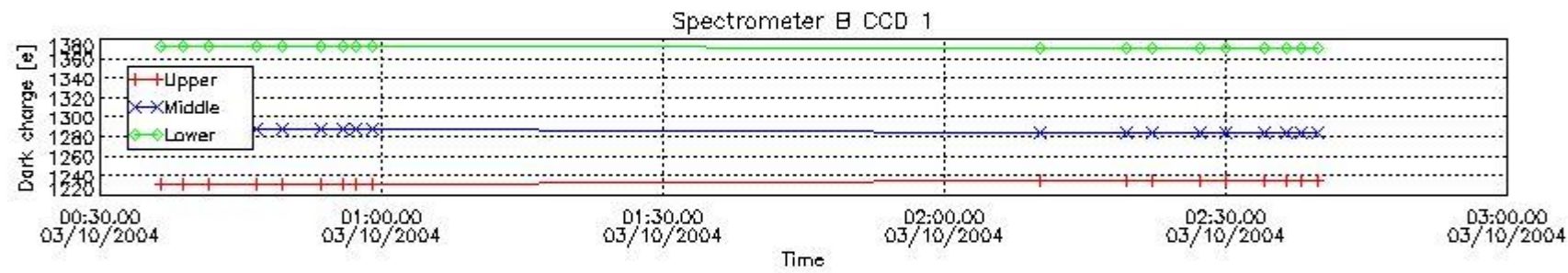
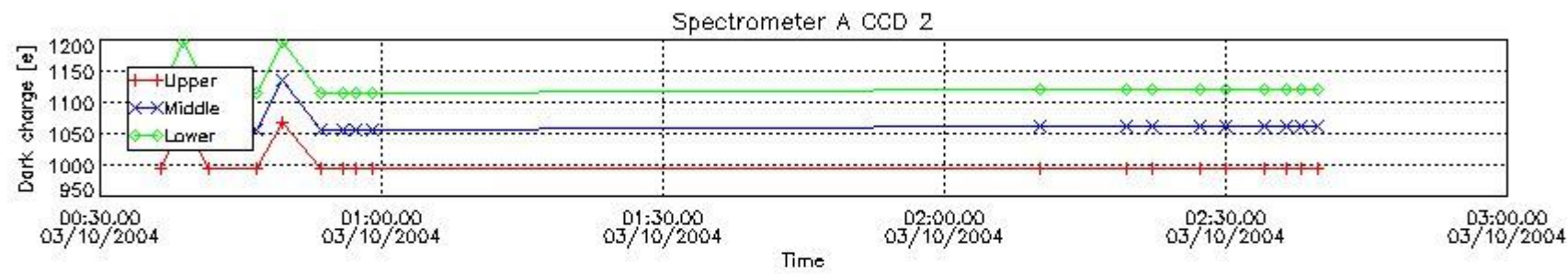
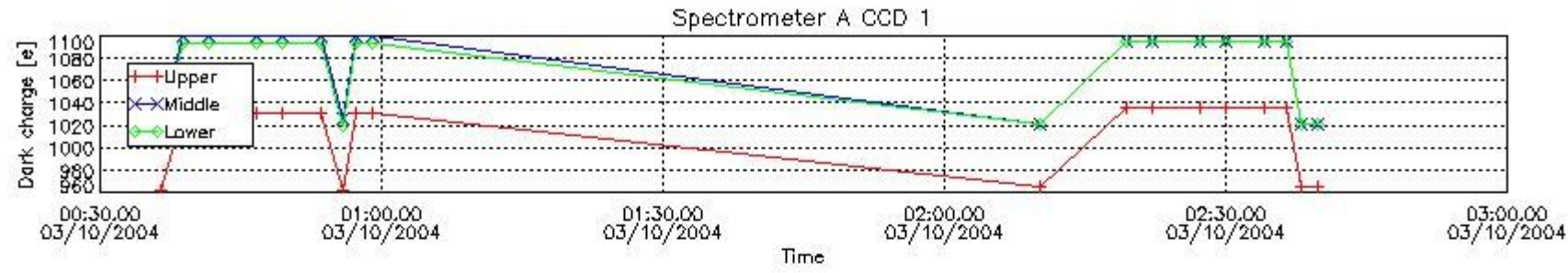
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





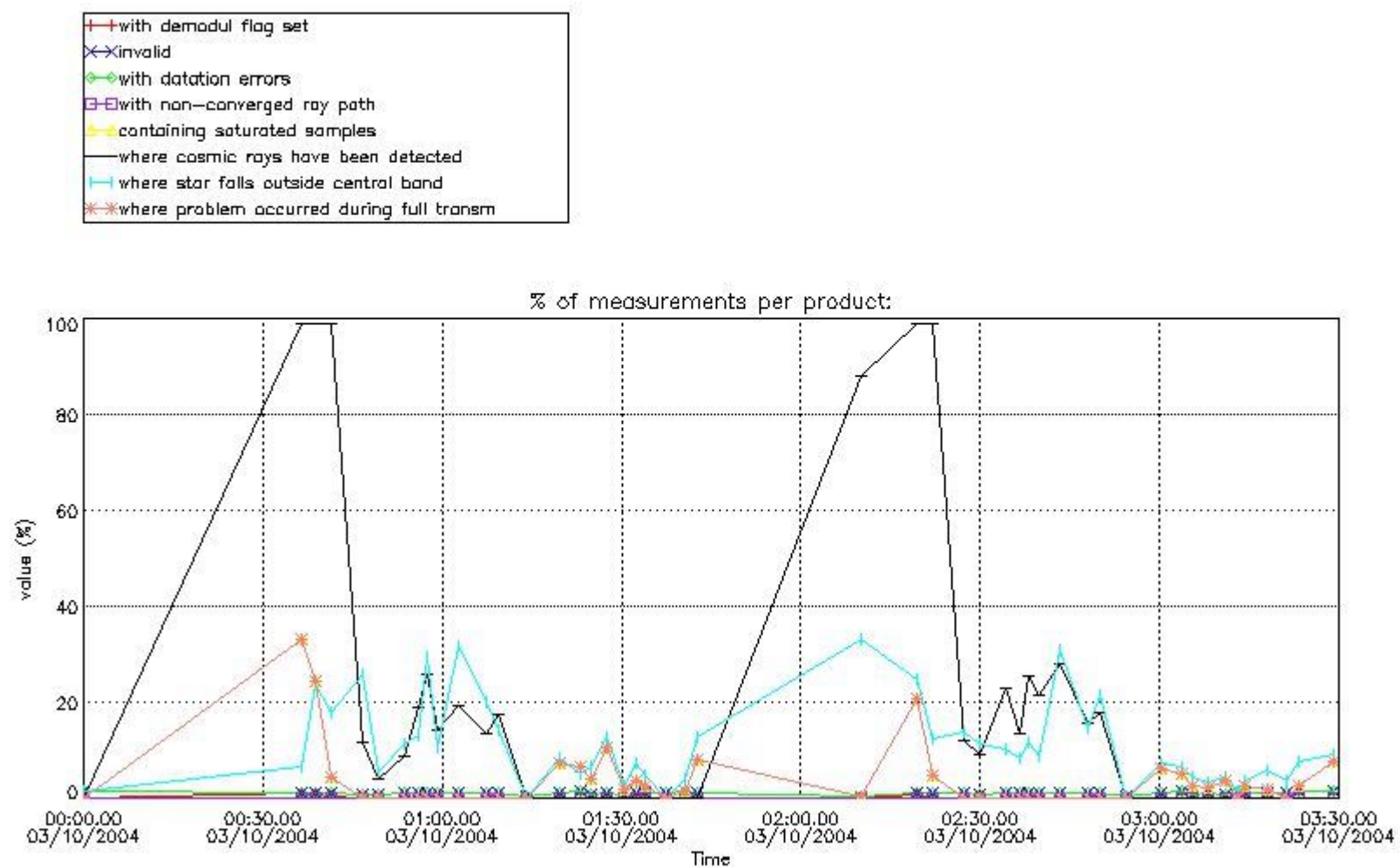
## 5. Demodulation flag and quality information monitoring

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:

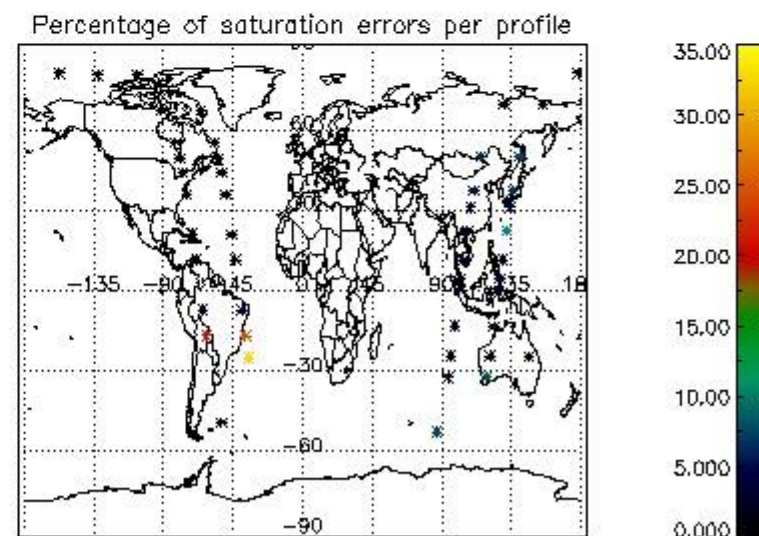
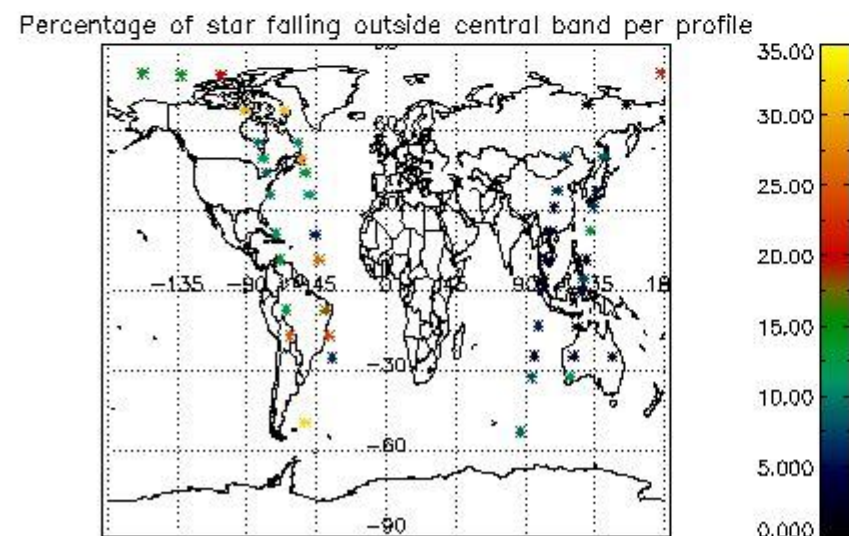
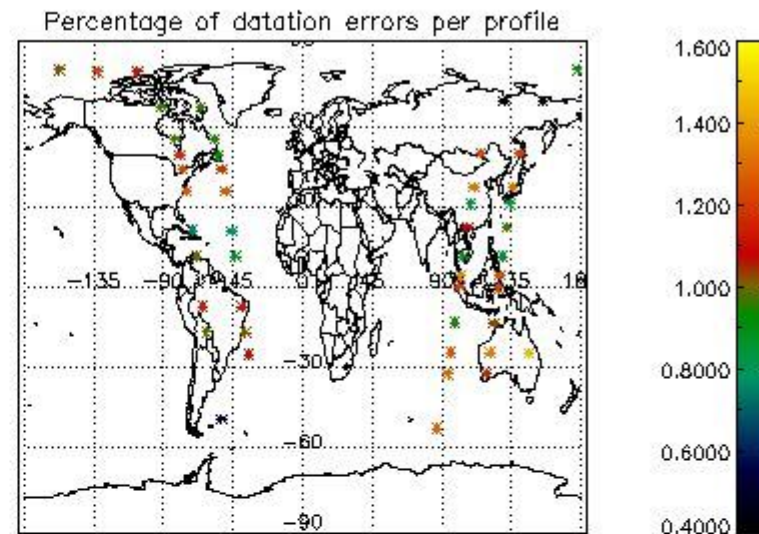
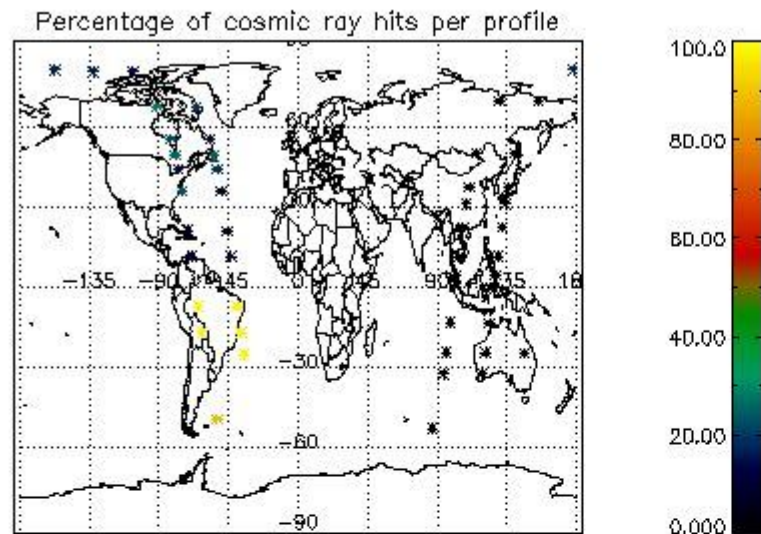
At least one measurement with demodulation flag set:	12.5000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





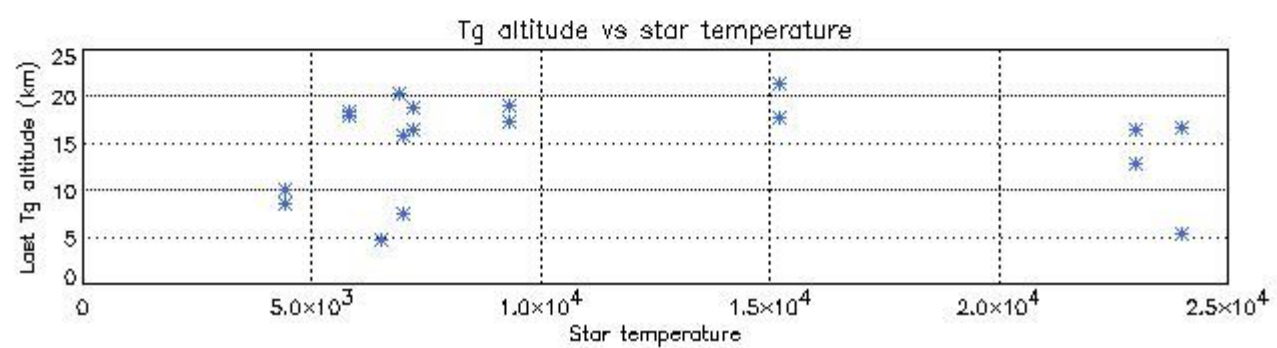
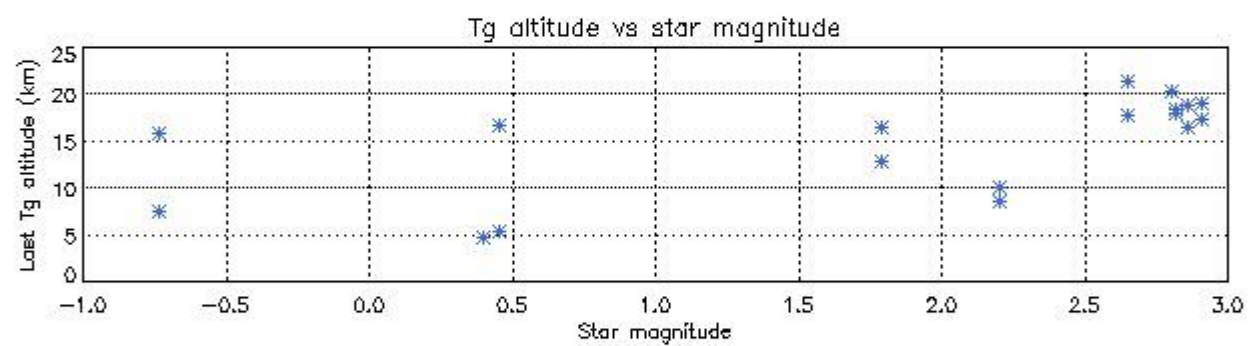
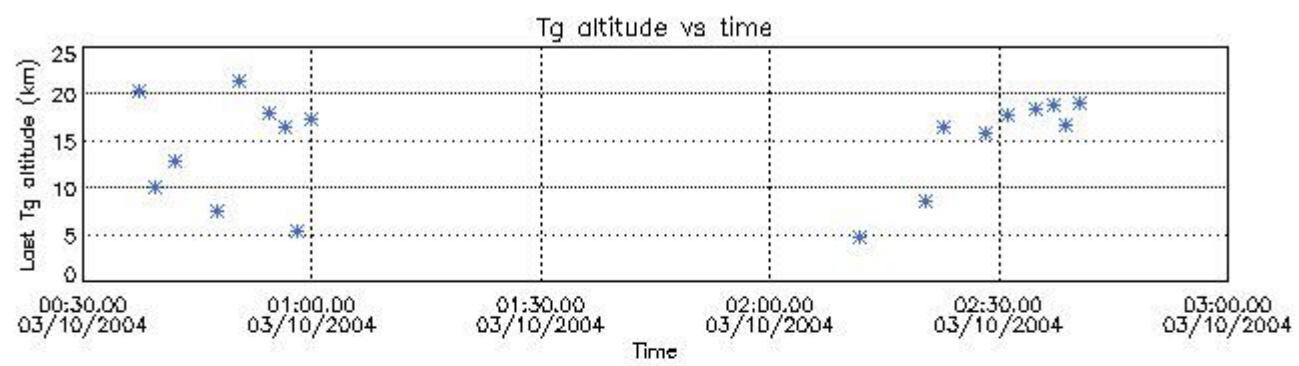
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.746	20.251	55.846
St. deviation:	5.2375	4.4349	58.795
Maximum:	21.357	28.143	107.33
Minimum:	4.7380	10.539	4.7851
Number of data:	18.000	26.000	4.0000

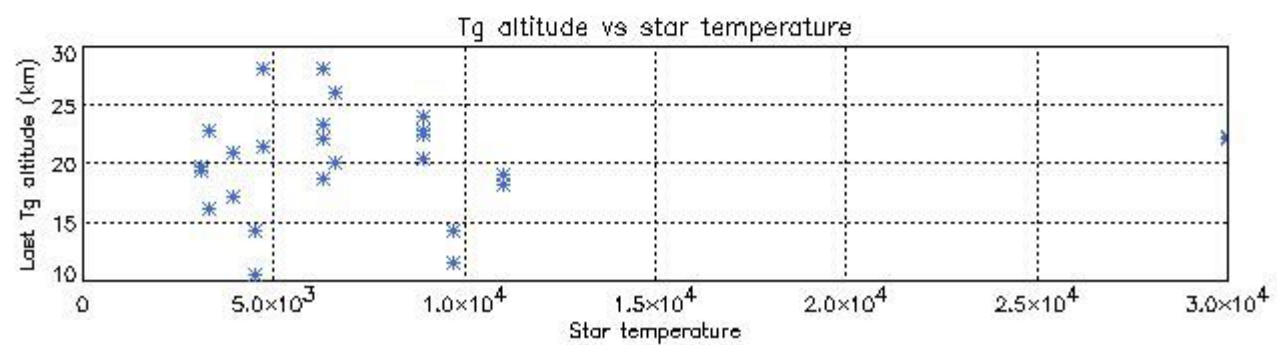
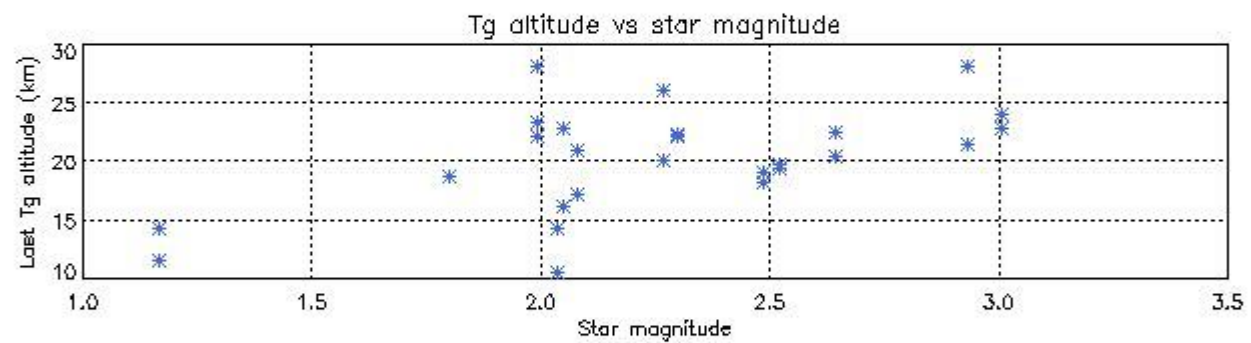
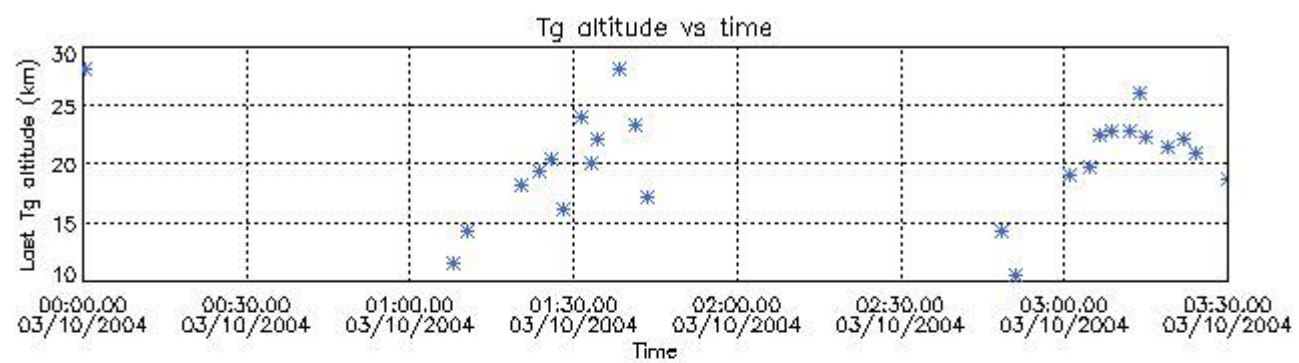
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

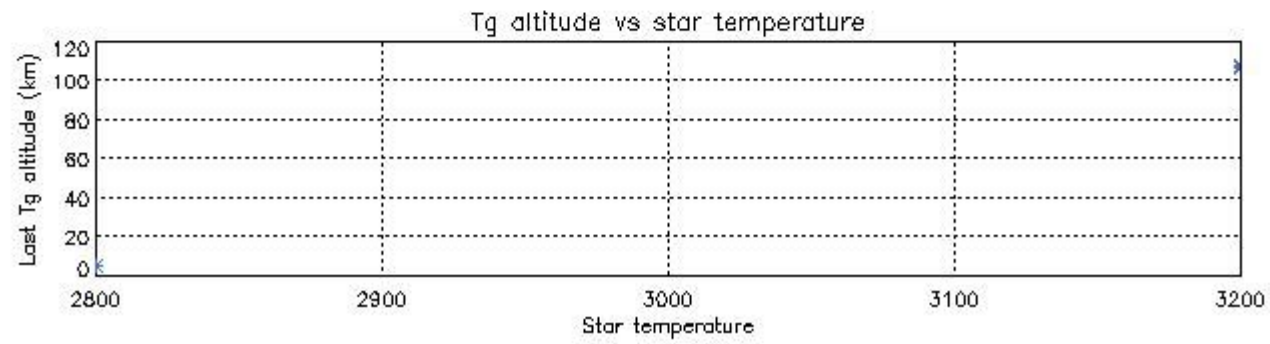
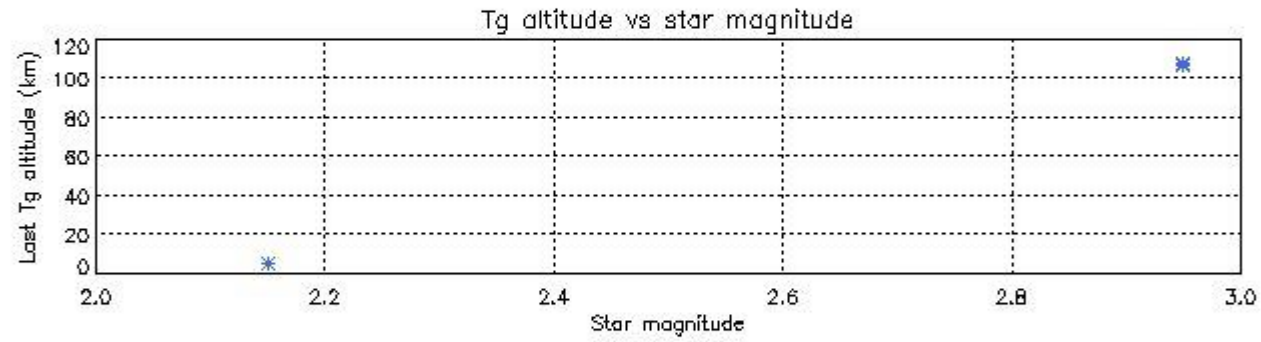
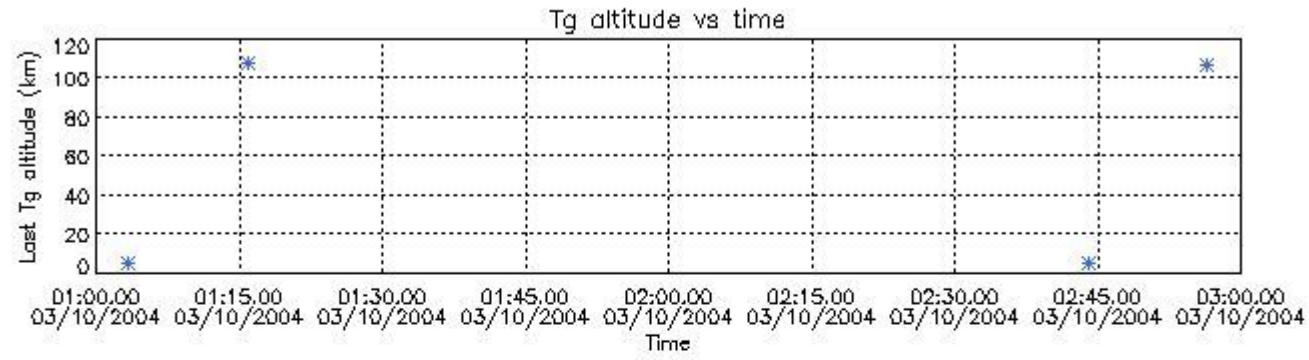
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



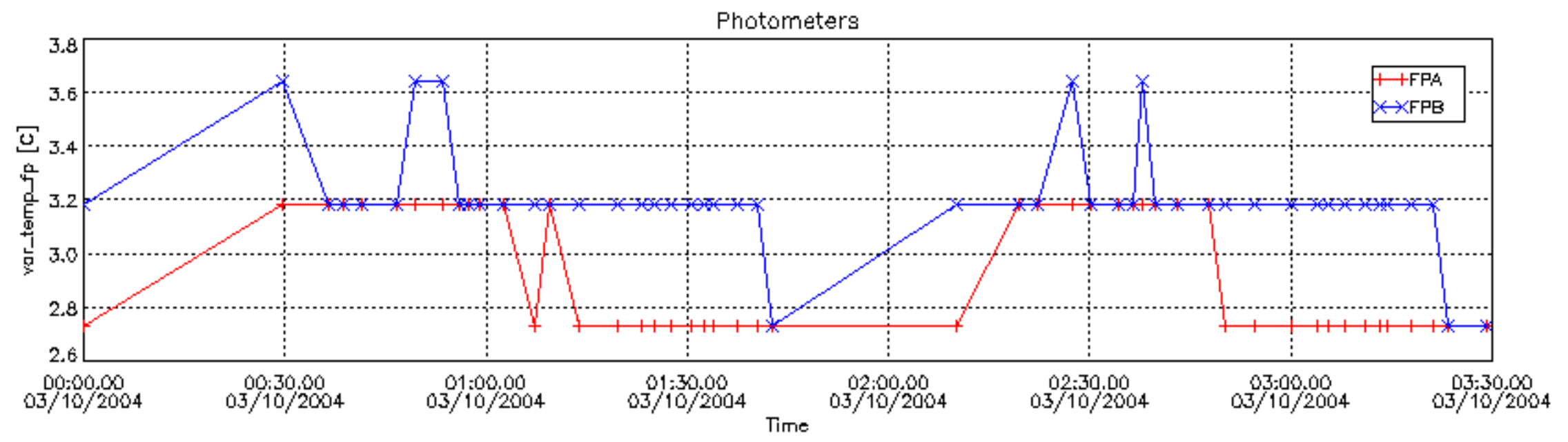
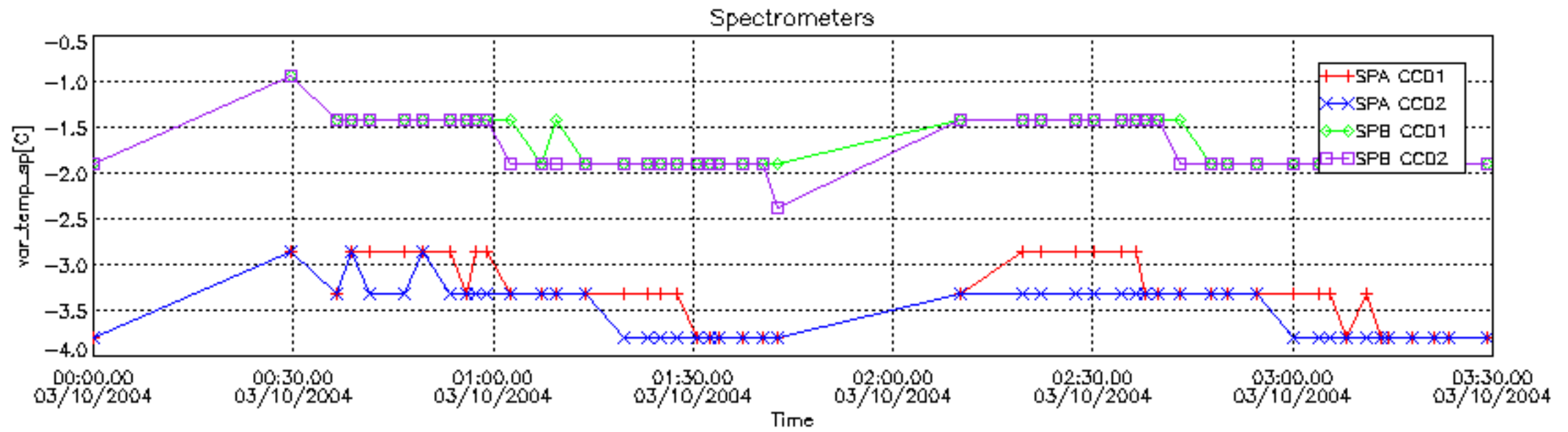
## Tangent altitude at which the star is lost

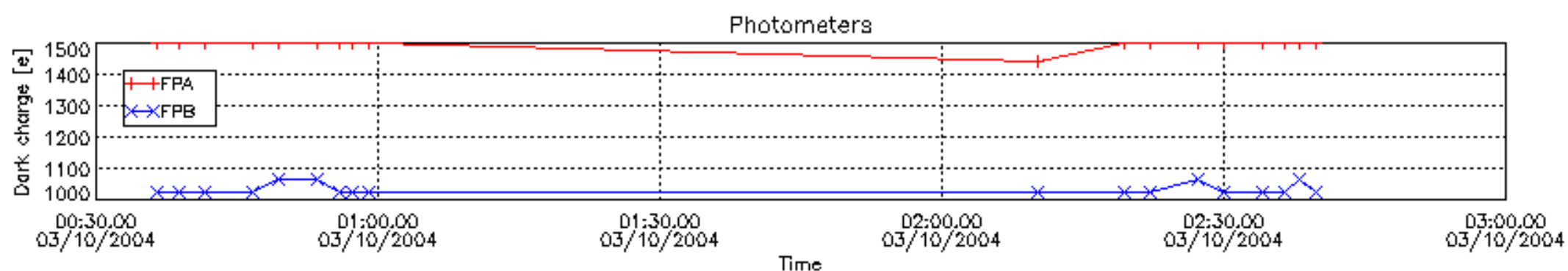
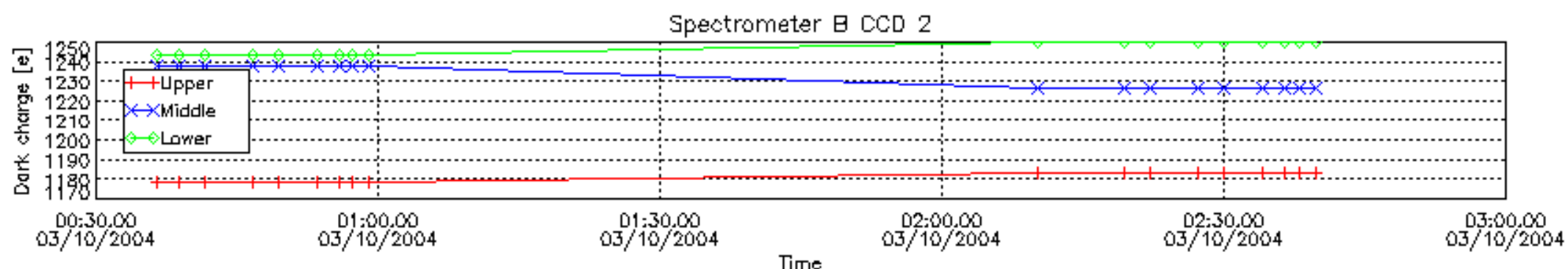
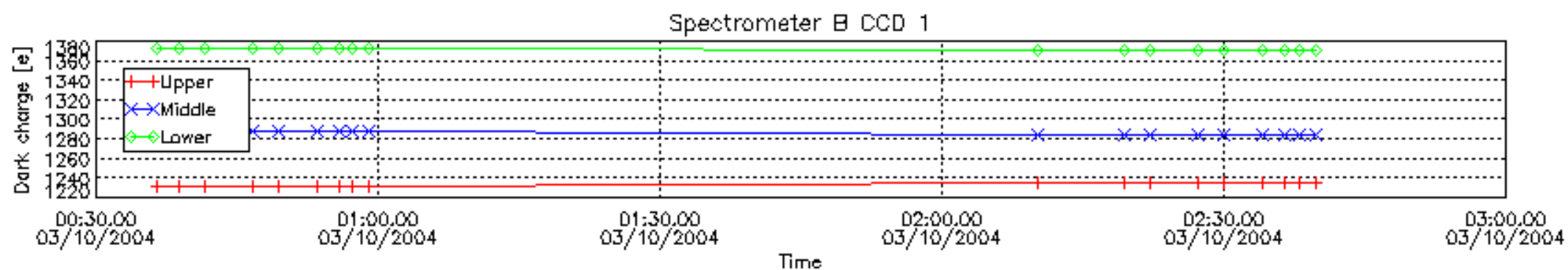
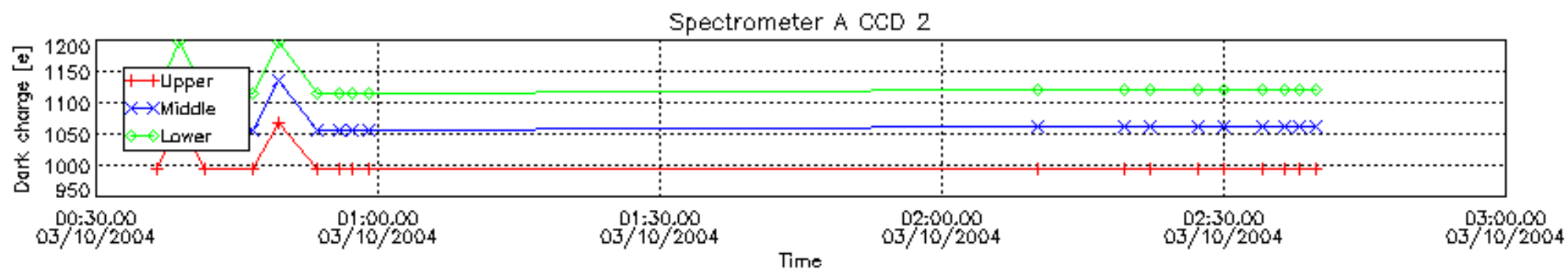
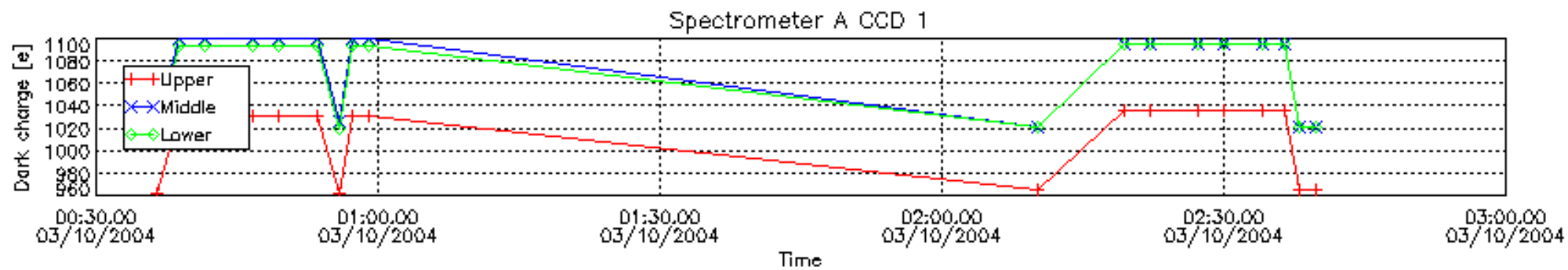


## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1461.8	1447.5	1461.7	1447.7
St. deviation:	5.4604	6.4111	6.3635	7.0761
Maximum:	1552.0	1484.0	1513.0	1511.0
Minimum:	1432.0	1412.0	1444.0	1437.0
Number of data:	23950.	23950.	32150.	32150.

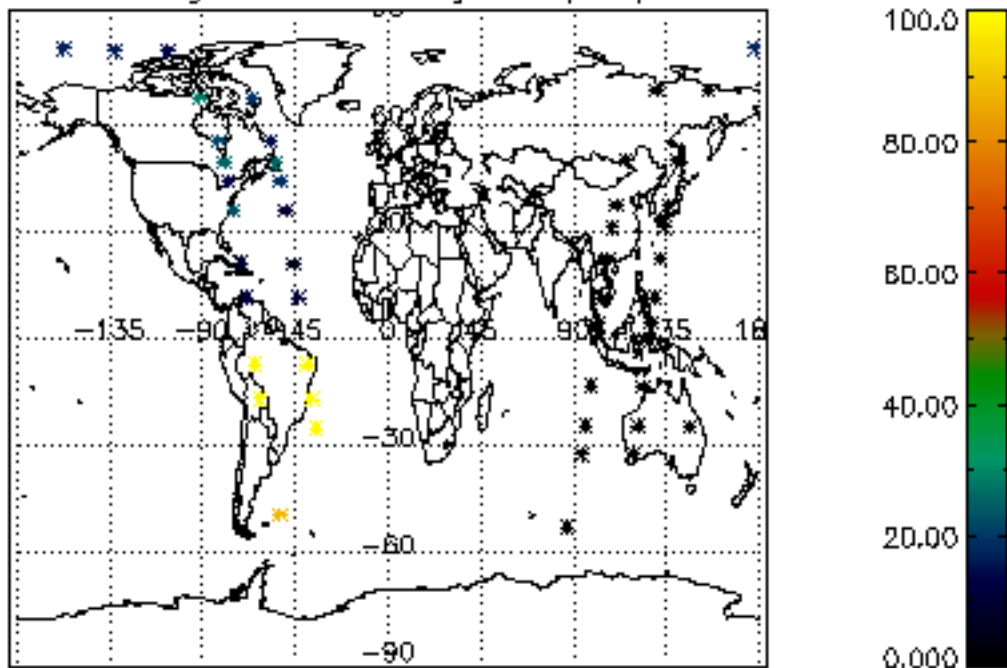




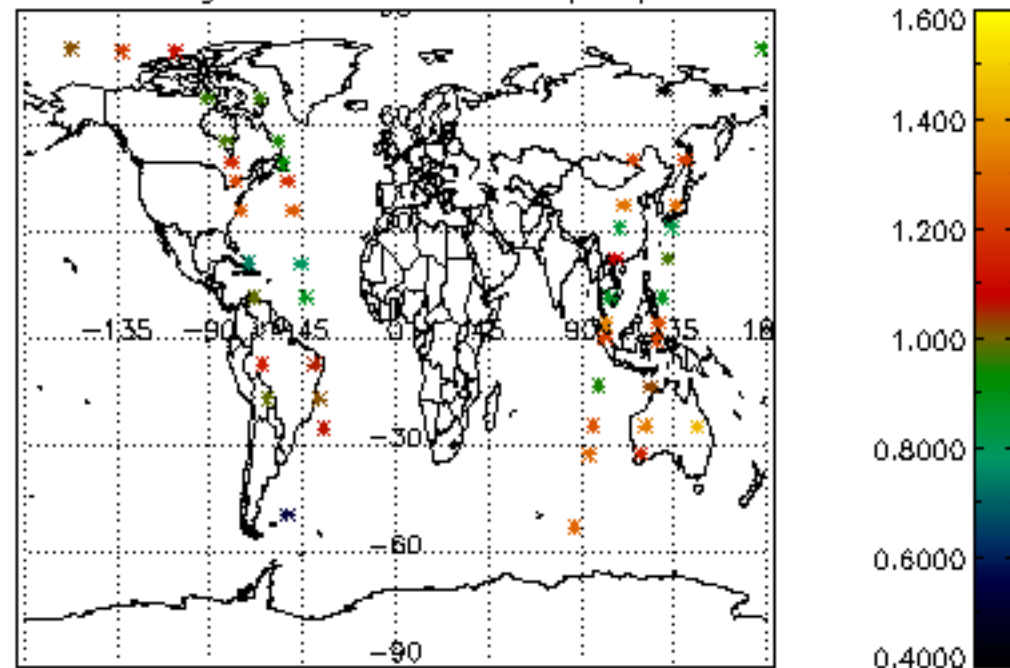




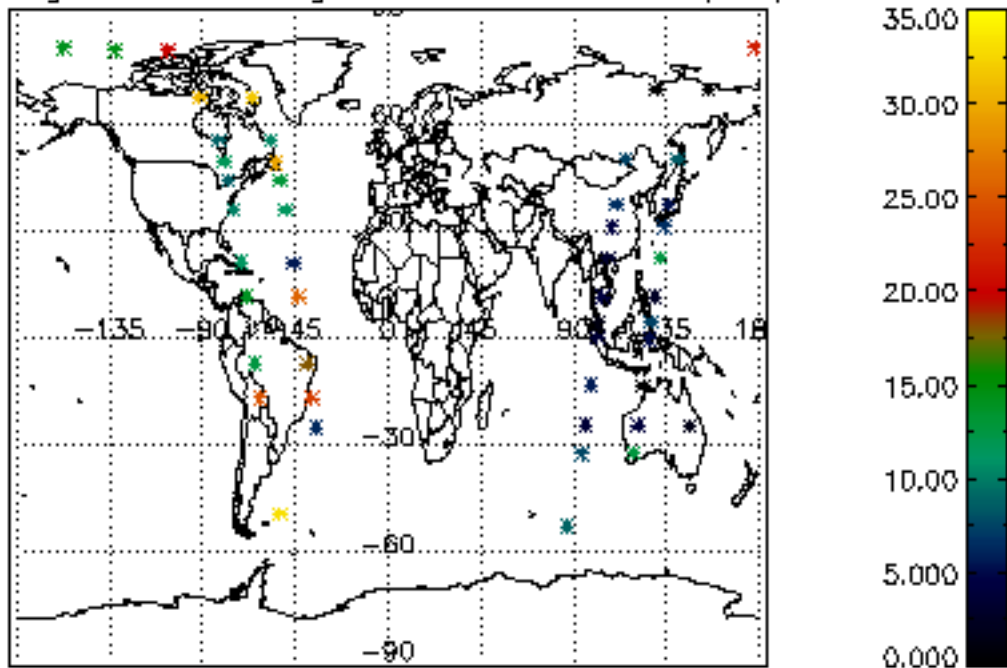
Percentage of cosmic ray hits per profile



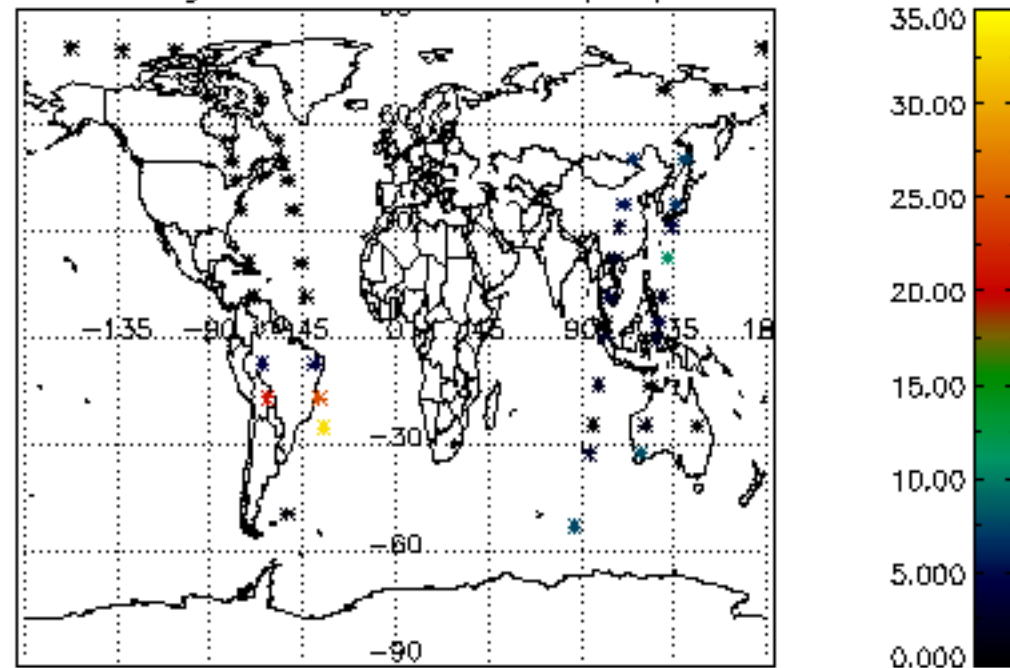
Percentage of datation errors per profile



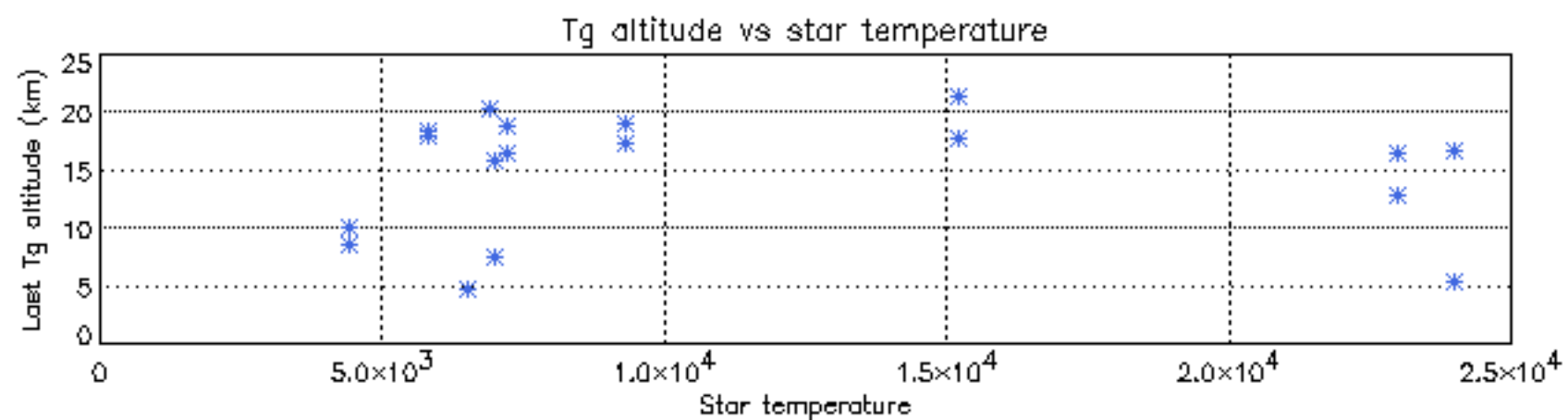
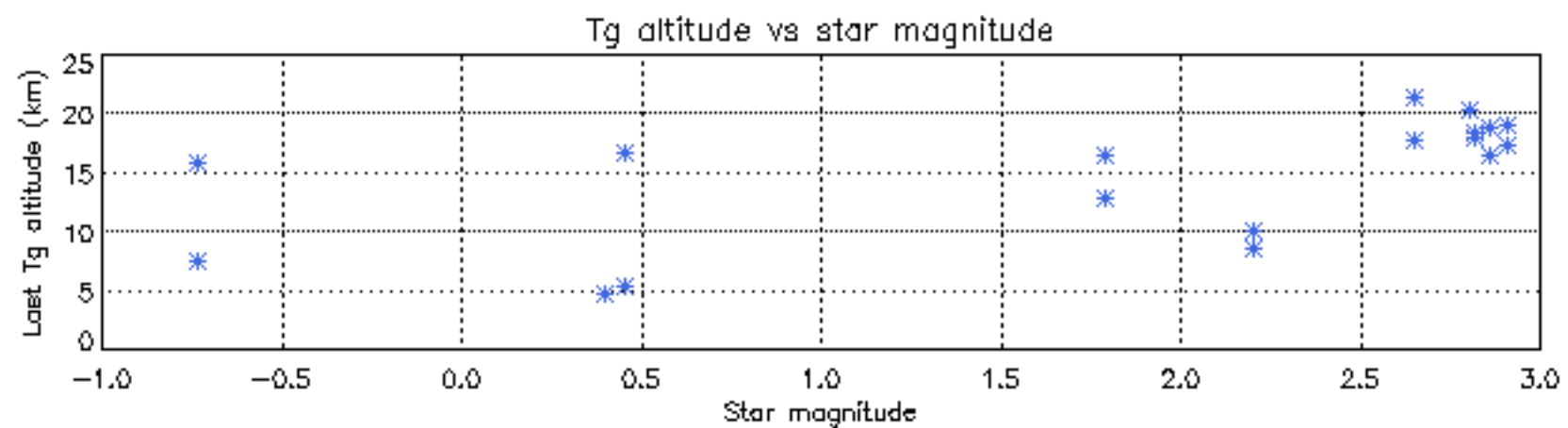
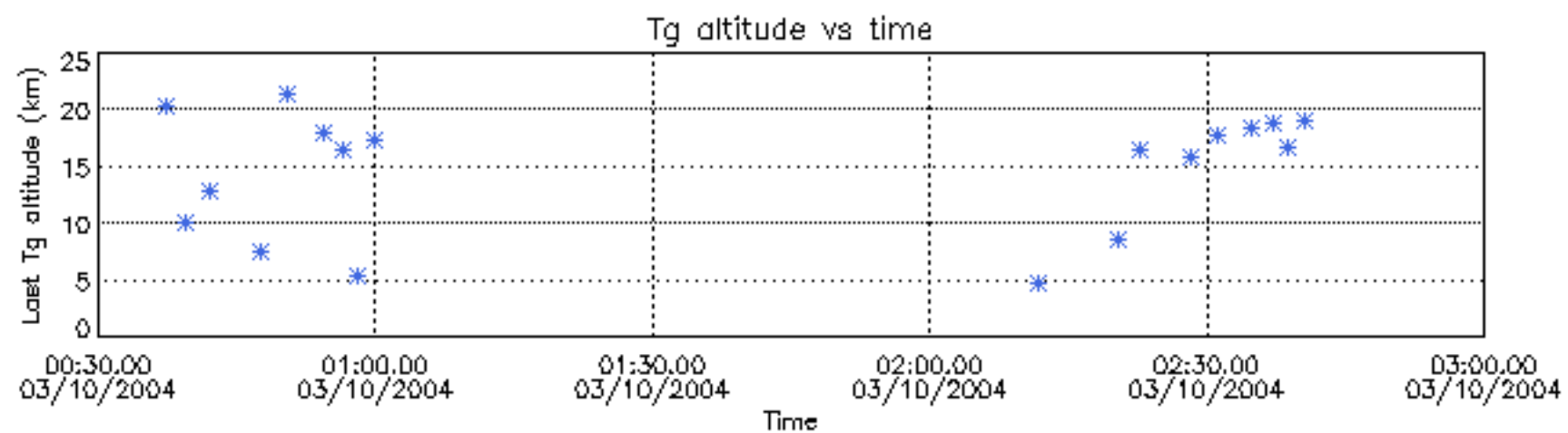
Percentage of star falling outside central band per profile



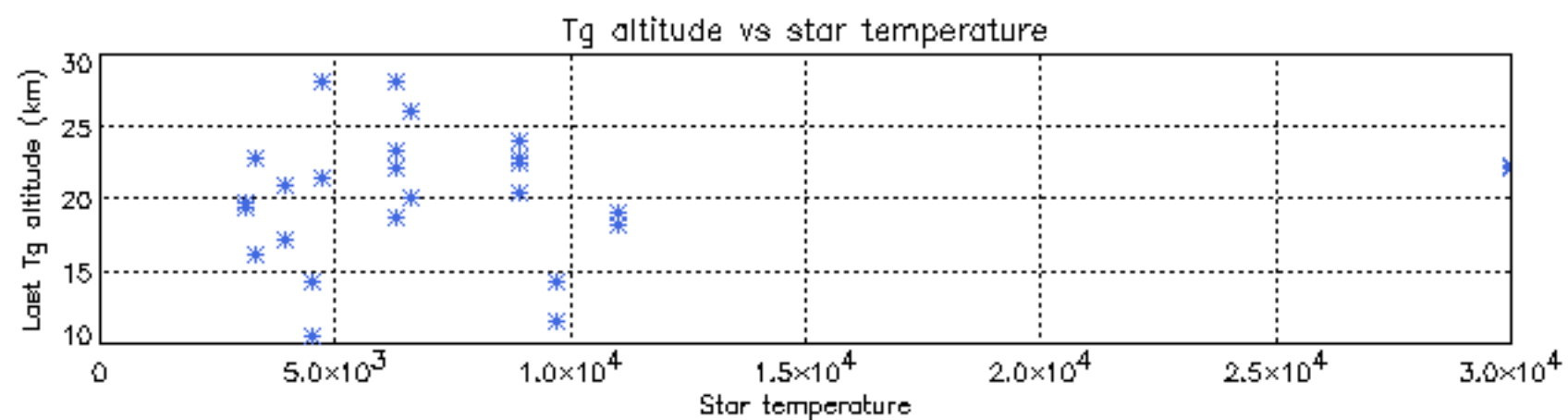
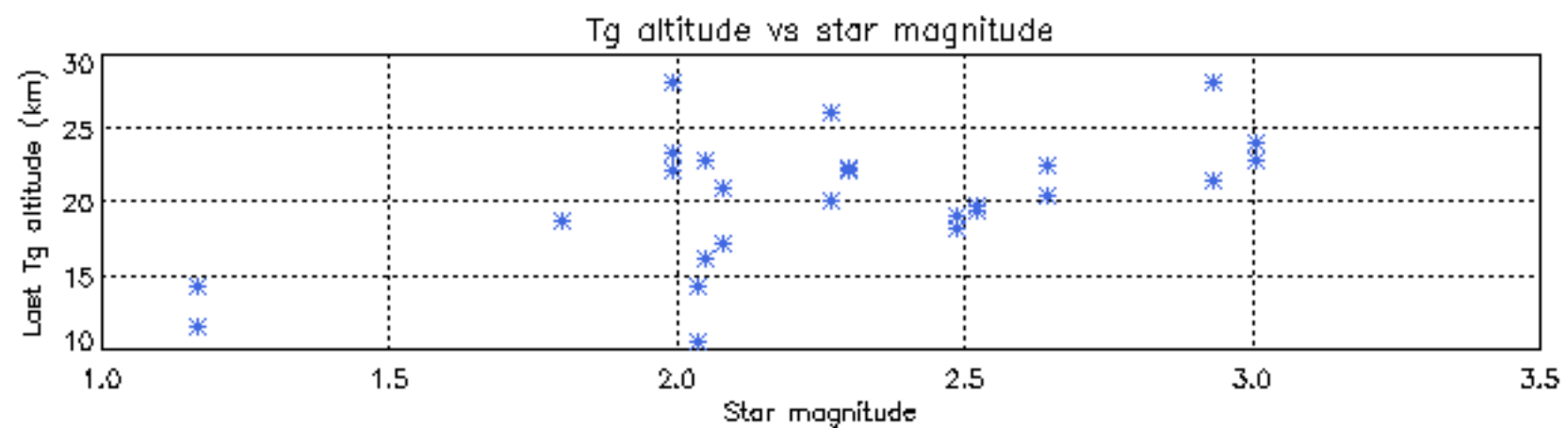
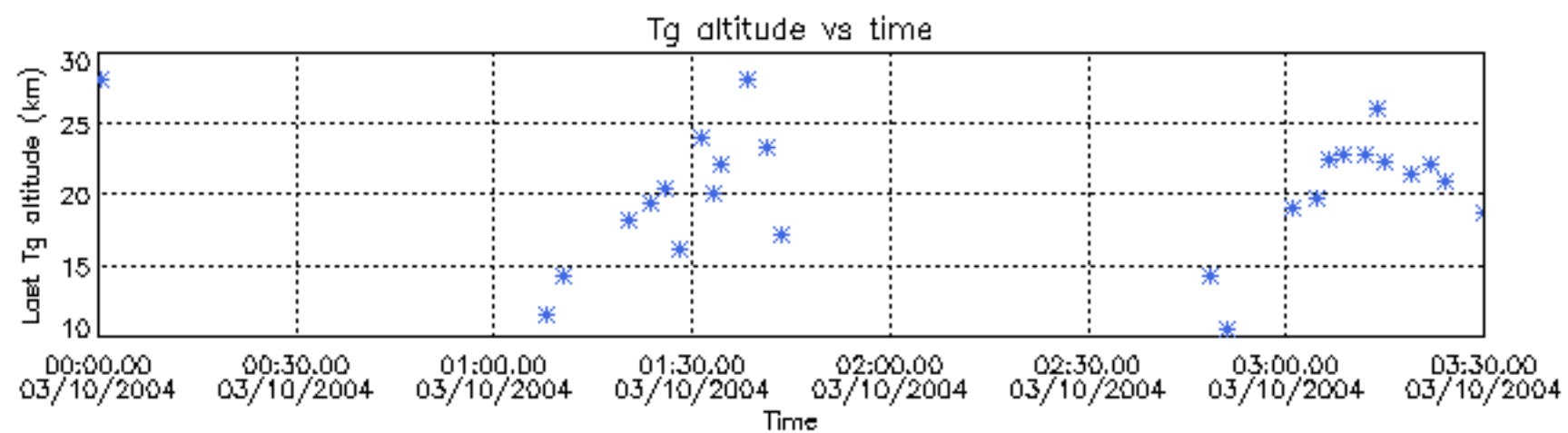
Percentage of saturation errors per profile



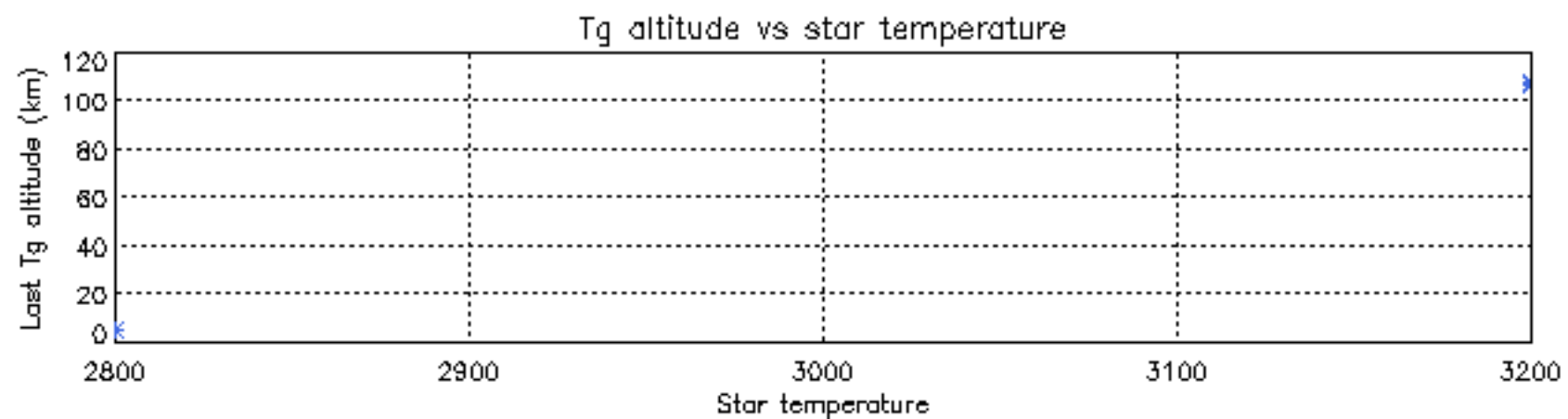
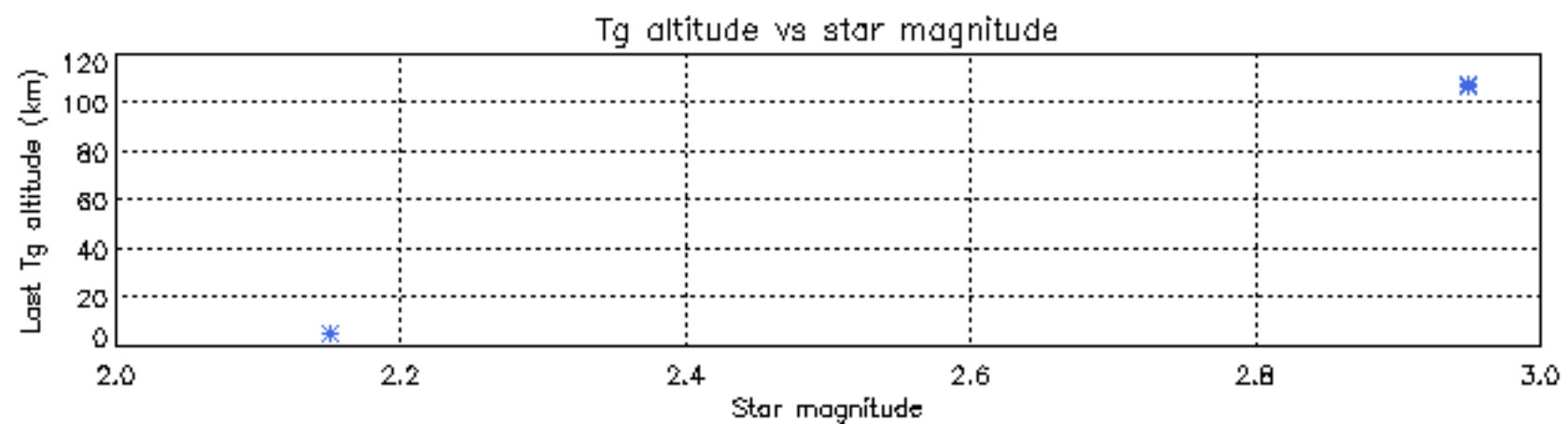
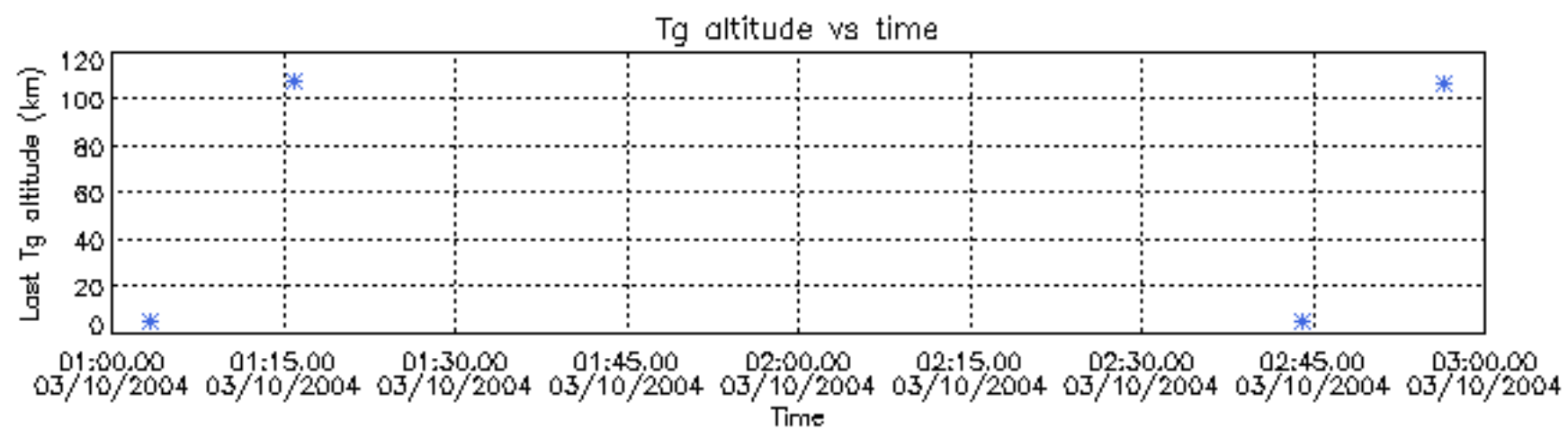
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 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  
 20; 2947.1; 01-OCT-2004 02:35:51; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;13527  
 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  
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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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 3; -1848.5; 01-OCT-2004 04:37:07; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13528  
 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  
 11; -36.4; 01-OCT-2004 05:07:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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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
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24; 2519.0; 01-OCT-2004 05:49:55; Bright; 66.0; 105; 6Bet Ari ; 2.64; 8900;occ; 132; 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
28; 3261.7; 01-OCT-2004 06:02:17; Bright; 53.5; 160; 23Gam Per ; 2.93; 4700;occ; 107; 0;13529
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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 2; 925.3; 01-OCT-2004 20:28:45; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;13538
 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
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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
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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10; 737.0; 01-OCT-2004 22:06:12; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13539
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17; 2167.0; 01-OCT-2004 22:30:02; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 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
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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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 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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12; 1144.4; 01-OCT-2004 23:53:35; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;13540
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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  
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 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  
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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  
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 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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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
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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
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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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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
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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
5; 4.3; 04-OCT-2004 21:59:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13582
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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18;	2618.7;	05-OCT-2004	02:04:31;	Bright;	49.0;	53;	43Bet And	;	2.05;	3300;occ;	98;	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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3;-4983.6; 16-OCT-2004 19:19:03; Dark ; 48.0; 157; The1Eri ; 2.91; 9300;occ; 96; 0;13752
4;-4842.7; 16-OCT-2004 19:21:24; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;13752
5;-4447.5; 16-OCT-2004 19:27:59; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;13752
6;-3870.6; 16-OCT-2004 19:37:36; Bright; 36.5; 140; 88Gam Peg ; 2.83; 26000;occ; 73; 0;13752
7;-3634.0; 16-OCT-2004 19:41:33; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;13752
8;-3488.6; 16-OCT-2004 19:43:58; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;13752
9;-3397.4; 16-OCT-2004 19:45:29; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;13752
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12;-3073.6; 16-OCT-2004 19:50:53; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;13752
13;-2611.7; 16-OCT-2004 19:58:35; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13752
14;-2427.2; 16-OCT-2004 20:01:40; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13752
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17;-1819.0; 16-OCT-2004 20:11:48; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;13752
18;-1345.6; 16-OCT-2004 20:19:41; Dark ; 118.5; 17; 78Bet Gem ; 1.16; 4500;occ; 237; 0;13752
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21; -90.3; 16-OCT-2004 20:40:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13752
22; 144.8; 16-OCT-2004 20:44:32; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;13753
23; 352.3; 16-OCT-2004 20:47:59; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;13753
24; 464.8; 16-OCT-2004 20:49:52; Dark ; 75.0; 177; 1Zet CMA ; 3.02; 26000;occ; 150; 0;13753
25; 646.8; 16-OCT-2004 20:52:54; Dark ; 69.5; 108; Alp Col ; 2.65; 15200;occ; 139; 0;13753
26; 806.9; 16-OCT-2004 20:55:34; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13753
27; 894.0; 16-OCT-2004 20:57:01; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;13753
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3; -88.4; 17-OCT-2004 01:42:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13755
4; 15.5; 17-OCT-2004 01:44:10; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;13756
5; 145.2; 17-OCT-2004 01:46:20; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;13756
6; 273.5; 17-OCT-2004 01:48:28; Dark ; 48.0; 161; Tau Pup ; 2.93; 4500;occ; 96; 0;13756
7; 445.0; 17-OCT-2004 01:51:19; Dark ; 183.0; 1; 9Alp CMA ; -1.44; 11000;occ; 366; 0;13756
8; 808.2; 17-OCT-2004 01:57:23; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13756
9; 894.5; 17-OCT-2004 01:58:49; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;13756
10; 1053.4; 17-OCT-2004 02:01:28; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;13756
11; 1192.9; 17-OCT-2004 02:03:47; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;13756
12; 1587.8; 17-OCT-2004 02:10:22; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;13756
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12; 448.4; 17-OCT-2004 03:31:59; Dark ; 170.0; 1; 9Alp CMa ; -1.44; 11000;occ; 340; 0;13757
13; 808.0; 17-OCT-2004 03:37:58; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13757
14; 894.7; 17-OCT-2004 03:39:25; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;13757
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19; 2401.6; 17-OCT-2004 05:45:08; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13758
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21; 2634.1; 17-OCT-2004 05:49:01; Bright; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;13758
22; 2748.0; 17-OCT-2004 05:50:54; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;13758
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 3; -2023.8; 17-OCT-2004 06:11:59; Bright; 53.0; 82; 48Bet UMa ; 2.37; 10600;occ; 106; 0;13758
 4; -1819.9; 17-OCT-2004 06:15:23; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;13758
 5; -1342.1; 17-OCT-2004 06:23:20; Dark ; 112.5; 17; 78Bet Gem ; 1.16; 4500;occ; 225; 0;13758

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7; -239.7; 17-OCT-2004 06:41:43; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;13758  
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9; 18.4; 17-OCT-2004 06:46:01; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;13759  
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14;-1819.7; 17-OCT-2004 07:55:59; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;13759  
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2;	-227.6;	20-OCT-2004	21:53:03;	Dark	;	44.0;	113;	Mu Vel	;	2.69;	5000;occ;	88;	0;	13810
3;	-58.7;	20-OCT-2004	21:55:52;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13810
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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7;	1078.9;	20-OCT-2004	22:14:50;	Dark	;	45.5;	157;	The1Eri	;	2.91;	9300;occ;	91;	0;	13811
8;	1203.7;	20-OCT-2004	22:16:55;	Dark	;	42.0;	84;	Alp Phe	;	2.40;	4500;occ;	84;	0;	13811
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12;	2428.4;	20-OCT-2004	22:37:19;	Bright;		41.5;	93;	53Bet Peg	;	2.52;	3100;occ;	83;	0;	13811
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14;	2719.1;	20-OCT-2004	22:42:10;	Bright;		42.0;	73;	57Gam1And	;	2.26;	13100;occ;	84;	0;	13811
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19;	3618.8;	20-OCT-2004	22:57:10;	Bright;		41.0;	60;	7Bet UMi	;	2.08;	3950;occ;	82;	0;	13811
20;	3918.1;	20-OCT-2004	23:02:09;	Bright;		37.0;	36;	50Alp UMa	;	1.80;	6300;occ;	74;	0;	13811
21;	4012.2;	20-OCT-2004	23:03:43;	Bright;		37.0;	82;	48Bet UMa	;	2.37;	10600;occ;	74;	0;	13811
22;	4221.1;	20-OCT-2004	23:07:12;	Bright;		38.0;	174;	52Psi UMa	;	3.00;	4400;occ;	76;	0;	13811
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13;	2530.6;	21-OCT-2004	00:19:37;	Bright;		42.5;	53;	43Bet And	;	2.05;	3300;occ;	85;	0;	13812
14;	2718.6;	21-OCT-2004	00:22:45;	Bright;		45.5;	73;	57Gam1And	;	2.26;	13100;occ;	91;	0;	13812
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16;	2951.3;	21-OCT-2004	00:26:38;	Bright;		38.5;	76;	27Gam Cas	;	2.30;	30000;occ;	77;	0;	13812
17;	3082.3;	21-OCT-2004	00:28:49;	Bright;		39.0;	89;	5Alp Cep	;	2.45;	8000;occ;	78;	0;	13812
18;	3420.4;	21-OCT-2004	00:34:27;	Bright;		38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	13812
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20;	3918.1;	21-OCT-2004	00:42:45;	Bright;		36.5;	36;	50Alp UMa	;	1.80;	6300;occ;	73;	0;	13812
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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