

# GOMOS Daily Report 19-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	21OCT2004 05:01:42
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (19OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20OCT2004 00:00:00)

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

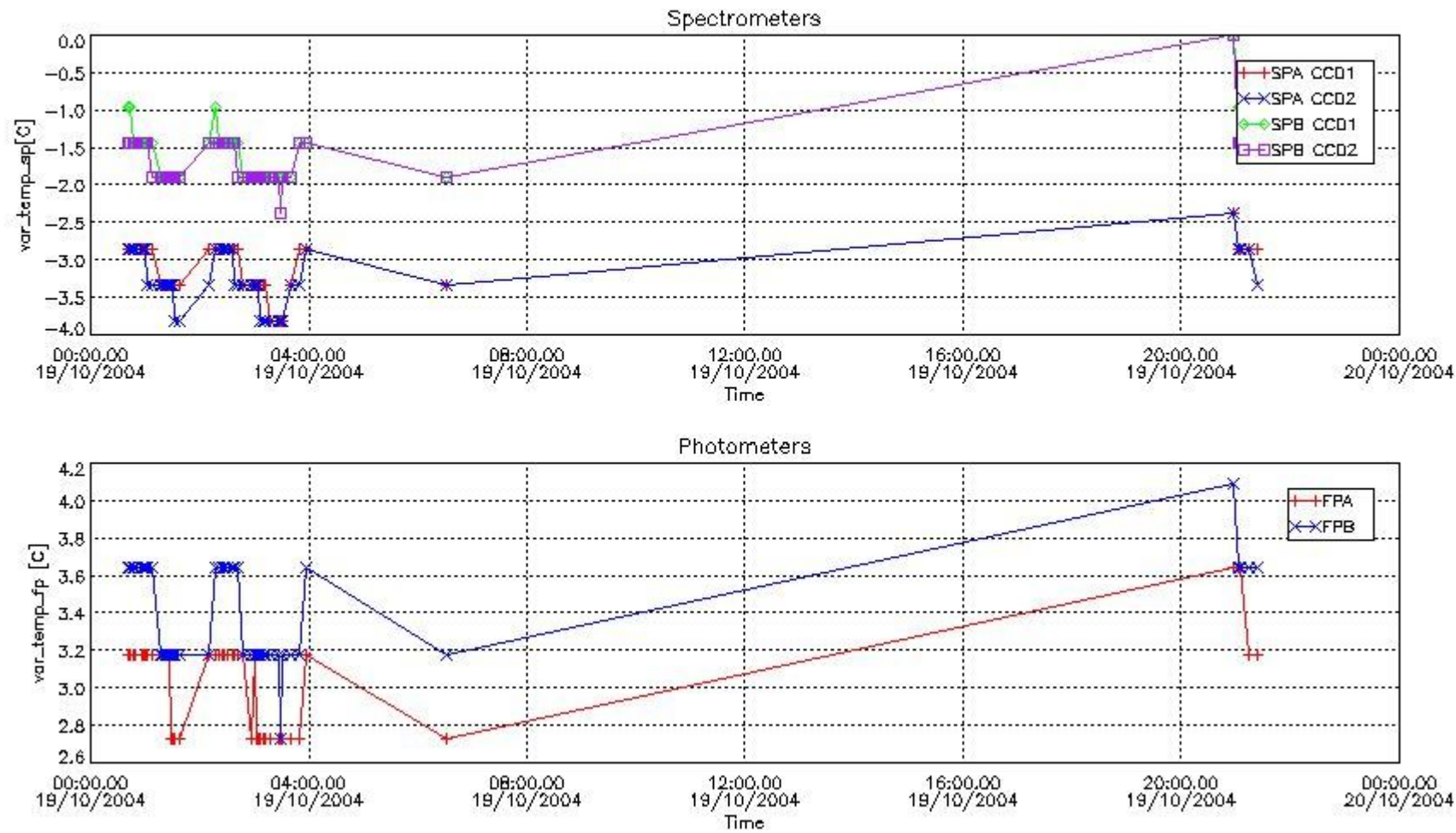
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20041019_004118_000000562031_00203_13784_0002.N1	19-OCT-2004 00:41:18	Dark	56.000	34	Gam2Vel	1.7930	23000.	112	13784	No
GOM_TRA_1PNPDE20041019_004311_000000422031_00203_13784_0003.N1	19-OCT-2004 00:43:11	Dark	41.500	29	Bet Car	1.6720	10200.	83	13784	No
GOM_TRA_1PNPDE20041019_004658_000000522031_00203_13784_0004.N1	19-OCT-2004 00:46:58	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	13784	No
GOM_TRA_1PNPDE20041019_004949_000002182031_00203_13784_0005.N1	19-OCT-2004 00:49:49	Dark	217.50	1	9Alp CMa	-1.4400	11000.	435	13784	No
GOM_TRA_1PNPDE20041019_005542_000000472031_00203_13784_0006.N1	19-OCT-2004 00:55:42	Dark	46.500	9	Alp Eri	0.45300	24000.	93	13784	No
GOM_TRA_1PNPDE20041019_005827_000000482031_00203_13784_0007.N1	19-OCT-2004 00:58:27	Dark	48.000	157	The1Eri	2.9060	9300.0	96	13784	No
GOM_TRA_1PNPDE20041019_010039_000000452031_00203_13784_0008.N1	19-OCT-2004 01:00:39	Dark	45.000	84	Alp Phe	2.3970	4500.0	90	13784	No
GOM_TRA_1PNPDE20041019_010240_000002142031_00203_13784_0009.N1	19-OCT-2004 01:02:40	Bright	214.00	101	11Alp Lep	2.5820	7000.0	428	13784	No
GOM_TRA_1PNPDE20041019_010713_000000452031_00203_13784_0010.N1	19-OCT-2004 01:07:13	Bright	44.500	52	16Bet Cet	2.0370	4500.0	89	13784	No
GOM_TRA_1PNPDE20041019_011646_000000382031_00203_13784_0011.N1	19-OCT-2004 01:16:46	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	13784	No
GOM_TRA_1PNPDE20041019_011925_000000462031_00203_13784_0012.N1	19-OCT-2004 01:19:25	Bright	45.500	105	6Bet Ari	2.6450	8900.0	91	13784	No
GOM_TRA_1PNPDE20041019_012201_000000382031_00203_13784_0013.N1	19-OCT-2004 01:22:01	Bright	37.500	164	44Eta Peg	2.9480	5400.0	75	13784	No
GOM_TRA_1PNPDE20041019_012418_000000472031_00203_13784_0014.N1	19-OCT-2004 01:24:18	Bright	46.500	173	4Bet Tri	3.0040	8900.0	93	13784	No
GOM_TRA_1PNPDE20041019_012614_000000462031_00203_13784_0015.N1	19-OCT-2004 01:26:14	Bright	45.500	73	57Gam1And	2.2600	13100.	91	13784	No
GOM_TRA_1PNPDE20041019_012837_000000372031_00203_13784_0016.N1	19-OCT-2004 01:28:37	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	13784	No
GOM_TRA_1PNPDE20041019_012956_000000372031_00203_13784_0017.N1	19-OCT-2004 01:29:56	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	13784	No
GOM_TRA_1PNPDE20041019_013151_000000402031_00203_13784_0018.N1	19-OCT-2004 01:31:51	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	13784	No
GOM_TRA_1PNPDE20041019_013743_000000382031_00203_13784_0019.N1	19-OCT-2004 01:37:43	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	13784	No
GOM_TRA_1PNPDE20041019_020911_000000602031_00203_13784_0000.N1	19-OCT-2004 02:09:11	Twilight	59.500	48	30Alp Hya	1.9770	4100.0	119	13784	No
GOM_TRA_1PNPDE20041019_021722_000000412031_00203_13784_0001.N1	19-OCT-2004 02:17:22	Dark	40.500	113	Mu Vel	2.6920	5000.0	81	13784	No
GOM_TRA_1PNPDE20041019_022155_000000462031_00204_13785_0002.N1	19-OCT-2004 02:21:55	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	13785	No
GOM_TRA_1PNPDE20041019_022456_000000792031_00204_13785_0003.N1	19-OCT-2004 02:24:56	Dark	79.000	37	25Del CMa	1.8300	5900.0	158	13785	No
GOM_TRA_1PNPDE20041019_022732_000000542031_00204_13785_0004.N1	19-OCT-2004 02:27:32	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	13785	No
GOM_TRA_1PNPDE20041019_023029_000002042031_00204_13785_0005.N1	19-OCT-2004 02:30:29	Dark	203.50	1	9Alp CMa	-1.4400	11000.	407	13785	No
GOM_TRA_1PNPDE20041019_023619_000000452031_00204_13785_0006.N1	19-OCT-2004 02:36:19	Dark	44.500	9	Alp Eri	0.45300	24000.	89	13785	No
GOM_TRA_1PNPDE20041019_023902_000000512031_00204_13785_0007.N1	19-OCT-2004 02:39:02	Dark	50.500	157	The1Eri	2.9060	9300.0	101	13785	No
GOM_TRA_1PNPDE20041019_024115_000000412031_00204_13785_0008.N1	19-OCT-2004 02:41:15	Dark	40.500	84	Alp Phe	2.3970	4500.0	81	13785	No
GOM_TRA_1PNPDE20041019_024749_000000432031_00204_13785_0009.N1	19-OCT-2004 02:47:49	Bright	43.000	52	16Bet Cet	2.0370	4500.0	86	13785	No
GOM_TRA_1PNPDE20041019_025722_000000392031_00204_13785_0010.N1	19-OCT-2004 02:57:22	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	13785	No
GOM_TRA_1PNPDE20041019_030000_000000472031_00204_13785_0011.N1	19-OCT-2004 03:00:00	Bright	46.500	105	6Bet Ari	2.6450	8900.0	93	13785	No
GOM_TRA_1PNPDE20041019_030237_000000392031_00204_13785_0012.N1	19-OCT-2004 03:02:37	Bright	39.000	164	44Eta Peg	2.9480	5400.0	78	13785	No
GOM_TRA_1PNPDE20041019_030453_000000462031_00204_13785_0013.N1	19-OCT-2004 03:04:53	Bright	46.000	173	4Bet Tri	3.0040	8900.0	92	13785	No
GOM_TRA_1PNPDE20041019_030649_000000452031_00204_13785_0014.N1	19-OCT-2004 03:06:49	Bright	45.000	73	57Gam1And	2.2600	13100.	90	13785	No
GOM_TRA_1PNPDE20041019_030912_000000412031_00204_13785_0015.N1	19-OCT-2004 03:09:12	Bright	41.000	68	18Alp Cas	2.2250	4500.0	82	13785	No
GOM_TRA_1PNPDE20041019_031032_000000392031_00204_13785_0016.N1	19-OCT-2004 03:10:32	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	13785	No
GOM_TRA_1PNPDE20041019_031228_000000402031_00204_13785_0017.N1	19-OCT-2004 03:12:28	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	13785	No
GOM_TRA_1PNPDE20041019_031817_000000372031_00204_13785_0018.N1	19-OCT-2004 03:18:17	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	13785	No
GOM_TRA_1PNPDE20041019_032635_000000382031_00204_13785_0001.N1	19-OCT-2004 03:26:35	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	13785	No
GOM_TRA_1PNPDE20041019_032809_000000382031_00204_13785_0002.N1	19-OCT-2004 03:28:09	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	13785	No
GOM_TRA_1PNPDE20041019_033136_000000372031_00204_13785_0003.N1	19-OCT-2004 03:31:36	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	13785	No
GOM_TRA_1PNPDE20041019_033948_000001432031_00204_13785_0004.N1	19-OCT-2004 03:39:48	Twilight	142.50	17	78Bet Gem	1.1610	4500.0	285	13785	No
GOM_TRA_1PNPDE20041019_034947_000000612031_00204_13785_0005.N1	19-OCT-2004 03:49:47	Twilight	61.000	48	30Alp Hya	1.9770	4100.0	122	13785	No
GOM_TRA_1PNPDE20041019_035759_000000422031_00204_13785_0006.N1	19-OCT-2004 03:57:59	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	13785	No
GOM_TRA_1PNPDE20041019_063144_000000402031_00206_13787_0021.N1	19-OCT-2004 06:31:44	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	13787	No
GOM_TRA_1PNPDE20041019_205747_000002212031_00215_13796_0000.N1	19-OCT-2004 20:57:47	Dark	221.00	1	9Alp CMa	-1.4400	11000.	442	13796	Yes
GOM_TRA_1PNPDE20041019_210258_000000452031_00215_13796_0001.N1	19-OCT-2004 21:02:58	Dark	44.500	9	Alp Eri	0.45300	24000.	89	13796	No
GOM_TRA_1PNPDE20041019_210545_000000452031_00215_13796_0002.N1	19-OCT-2004 21:05:45	Dark	44.500	157	The1Eri	2.9060	9300.0	89	13796	No
GOM_TRA_1PNPDE20041019_211426_000000472031_00215_13796_0004.N1	19-OCT-2004 21:14:26	Bright	46.500	52	16Bet Cet	2.0370	4500.0	93	13796	No
GOM_TRA_1PNPDE20041019_212358_000000382031_00215_13796_0005.N1	19-OCT-2004 21:23:58	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	13796	No

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



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

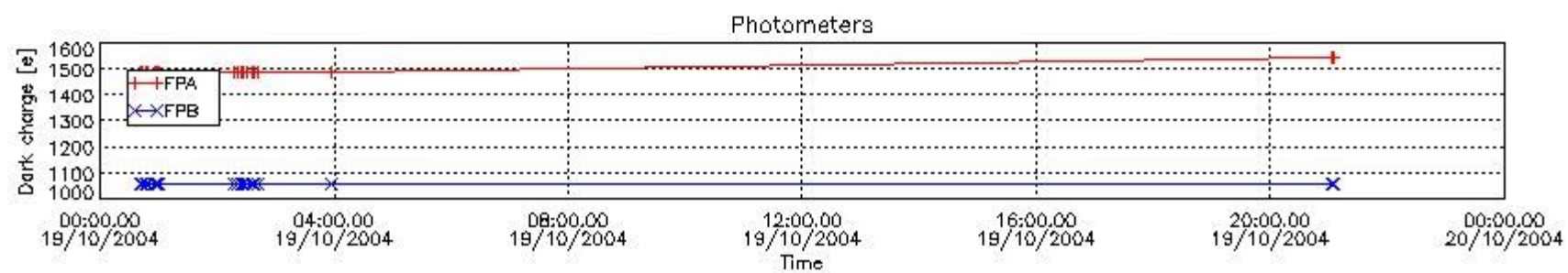
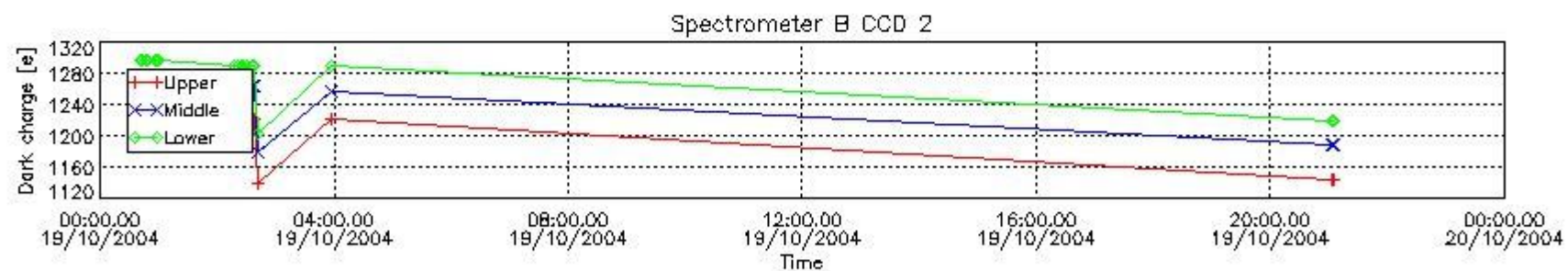
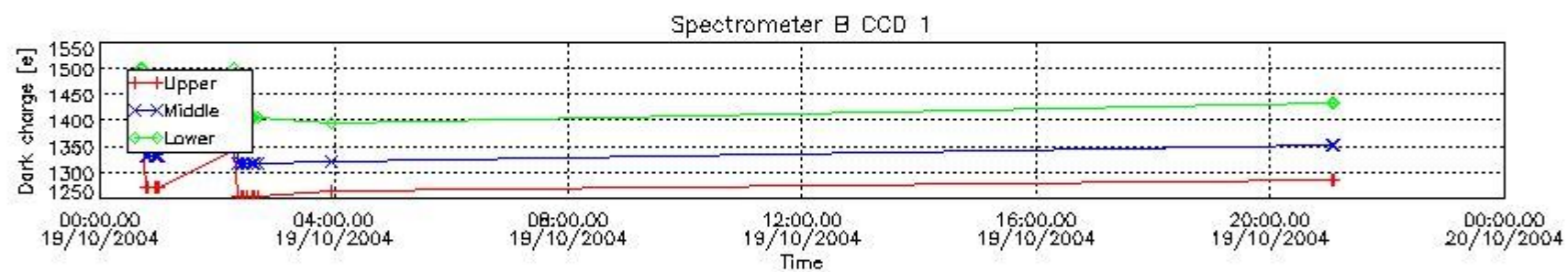
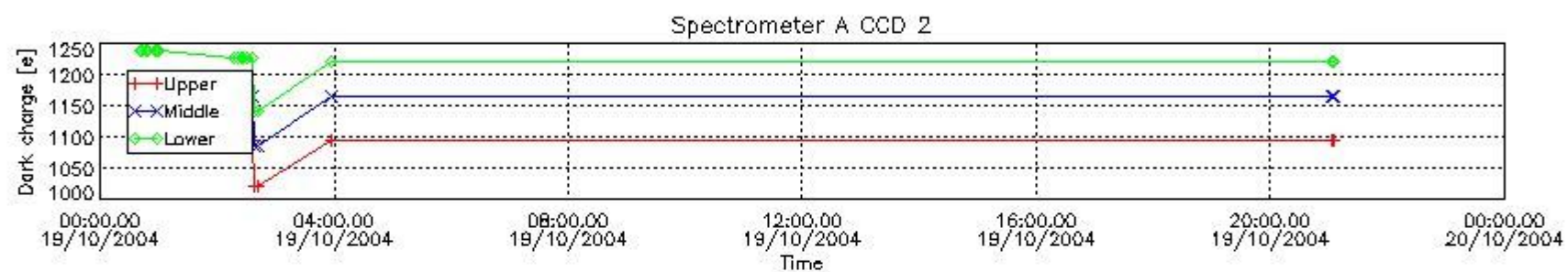
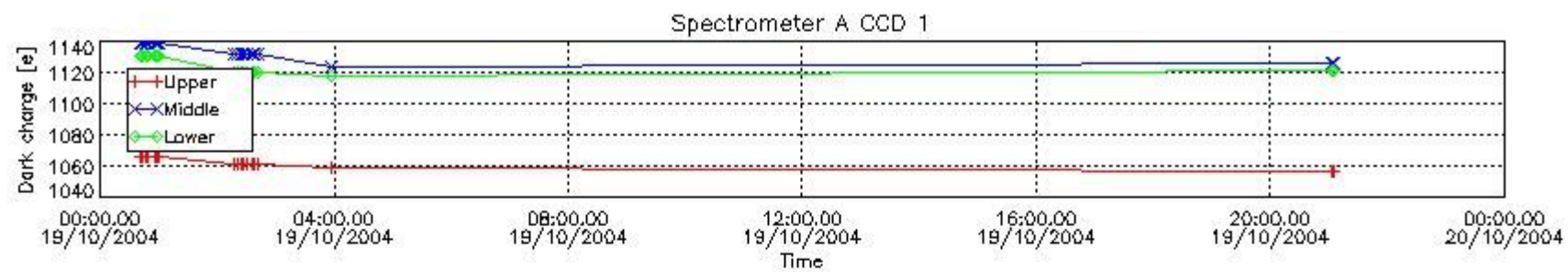
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20041019_205747_000002212031_00215_13796_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20041019_210258_000000452031_00215_13796_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20041019_210545_000000452031_00215_13796_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20041019_211426_000000472031_00215_13796_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20041019_212358_000000382031_00215_13796_0005.N1	DC map used (0)

#### 4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



## 5. Demodulation flag and quality information monitoring

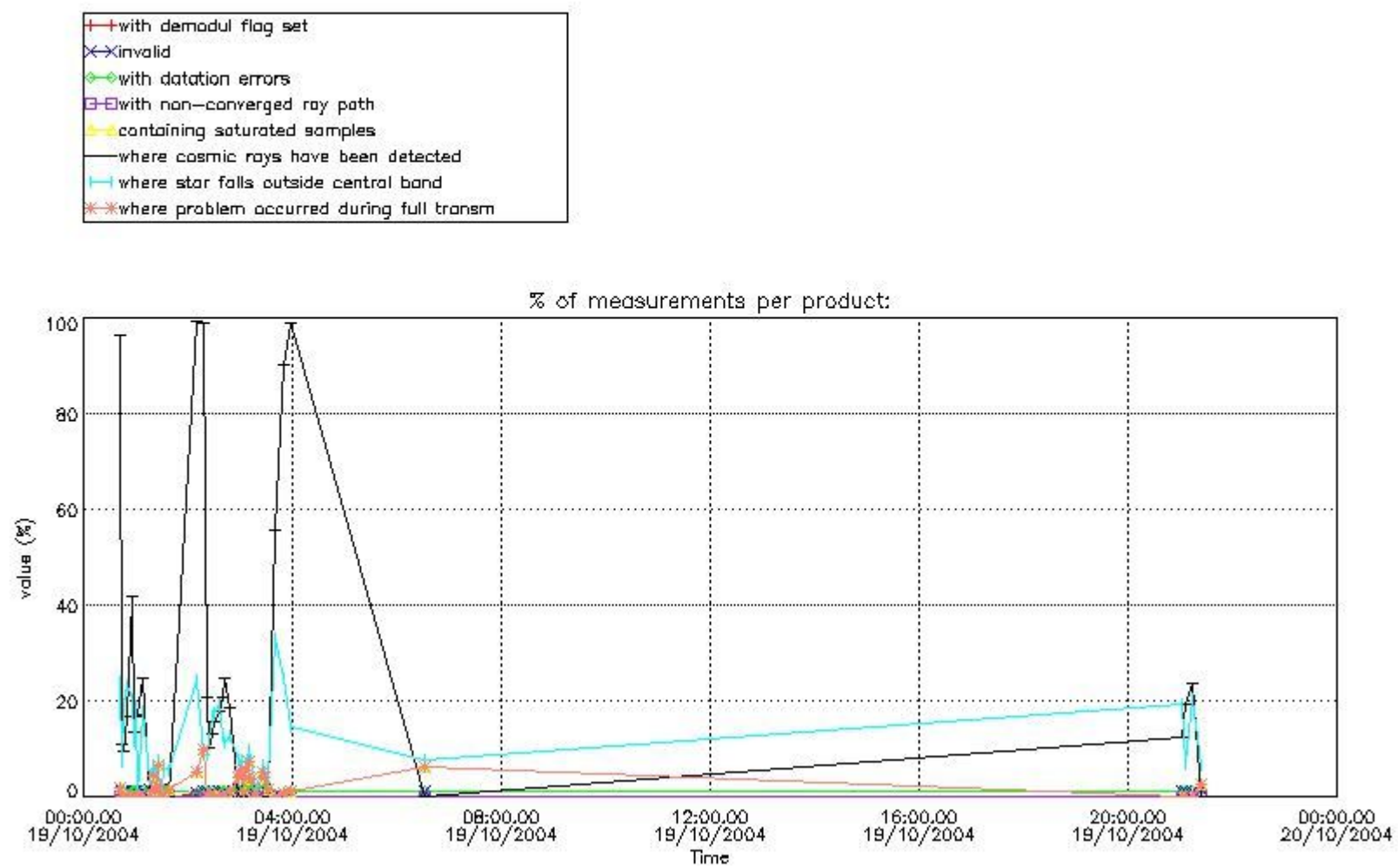
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

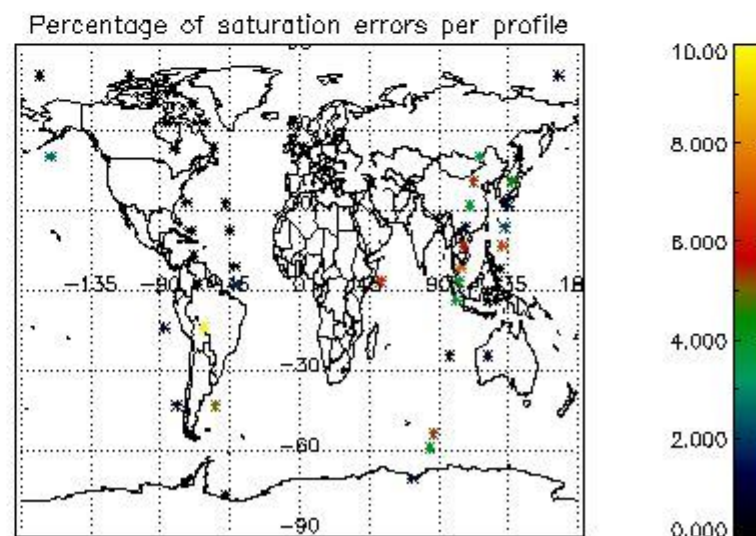
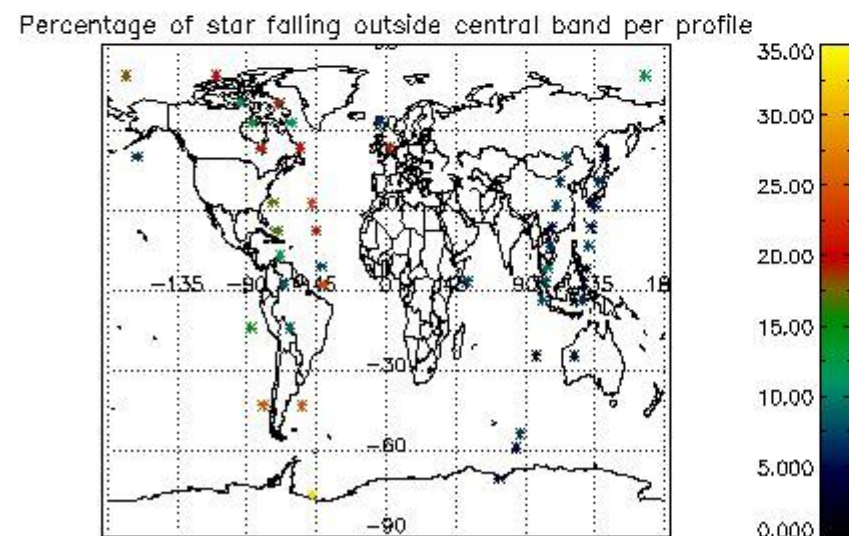
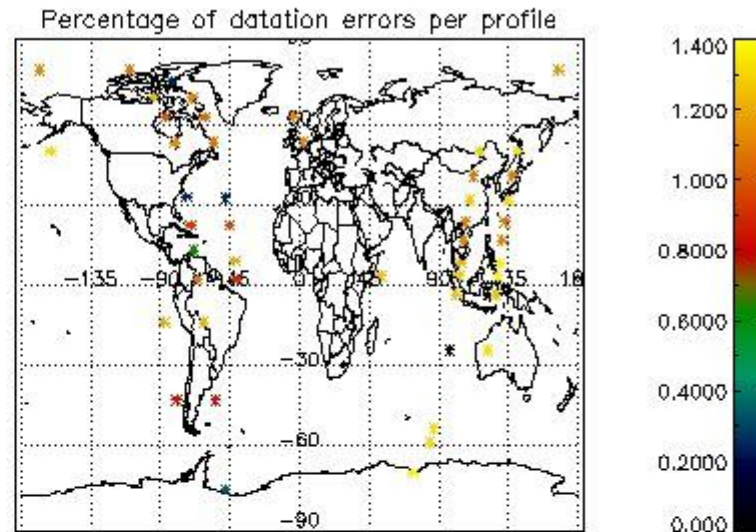
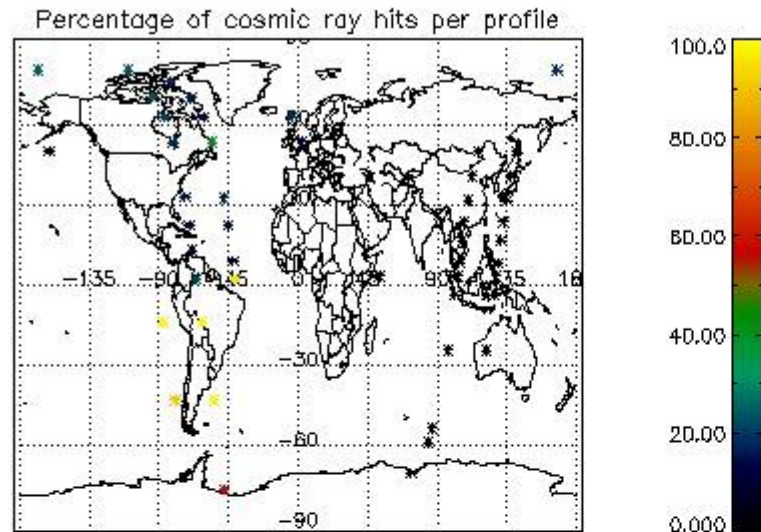


At least one measurement with demodulation flag set:	14.5833 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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



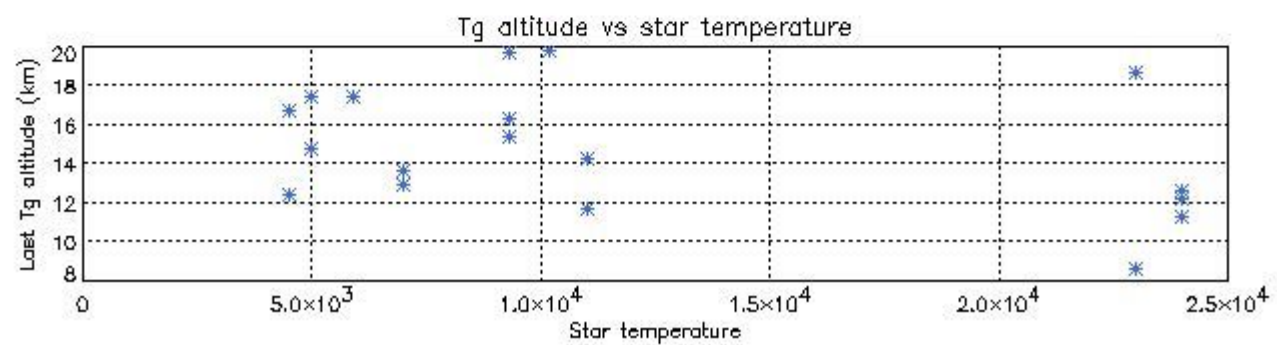
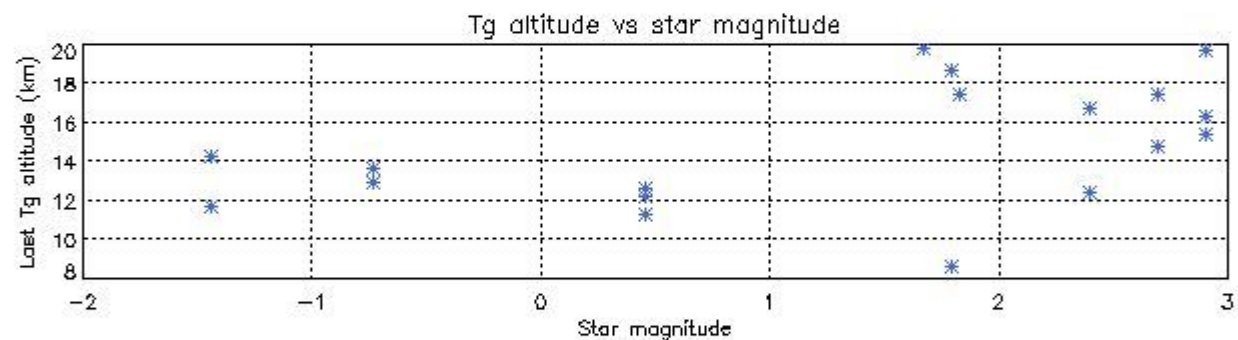
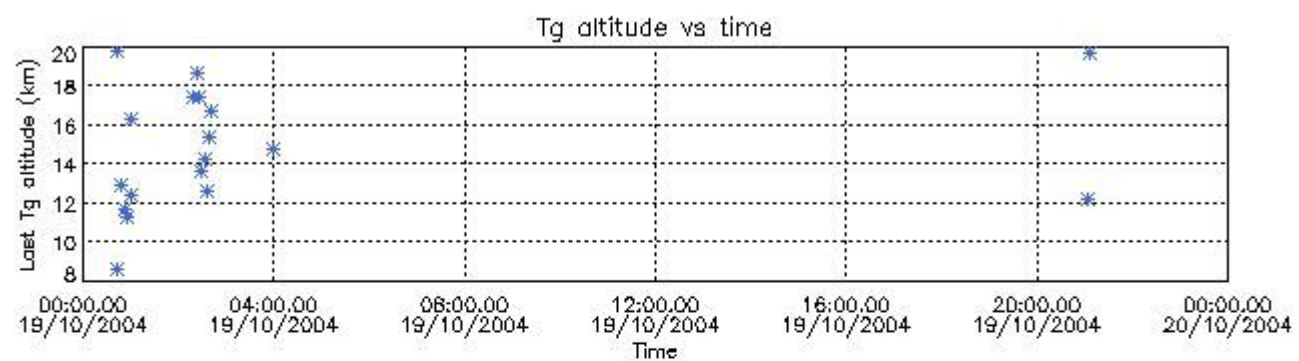
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.784	21.709	7.9887
St. deviation:	3.1345	6.0873	2.4279
Maximum:	19.765	45.571	9.7816
Minimum:	8.5906	11.047	5.2258
Number of data:	18.000	27.000	3.0000

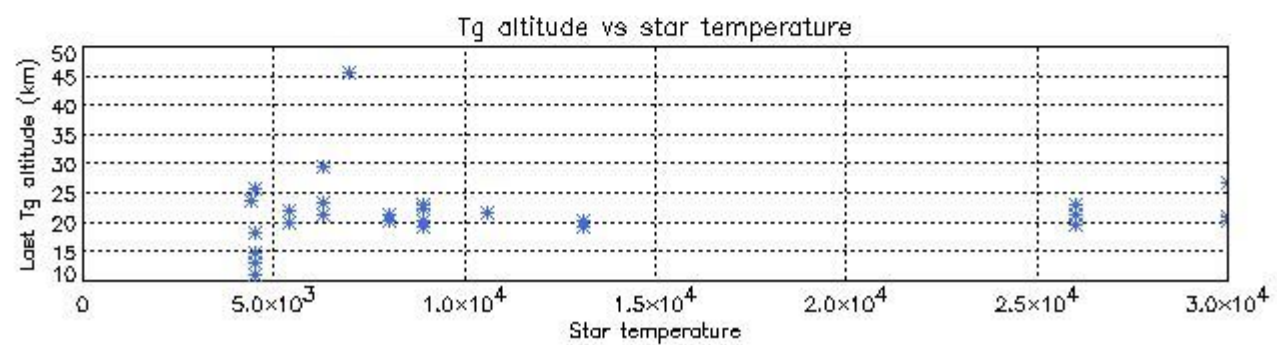
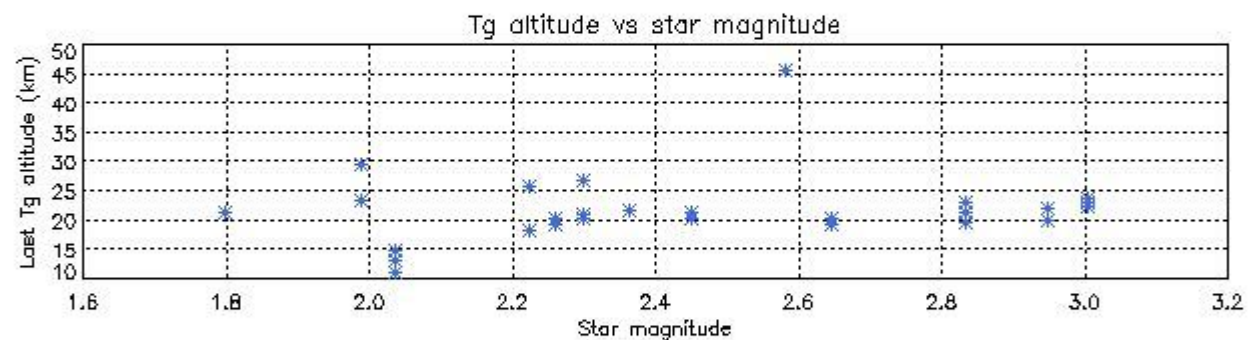
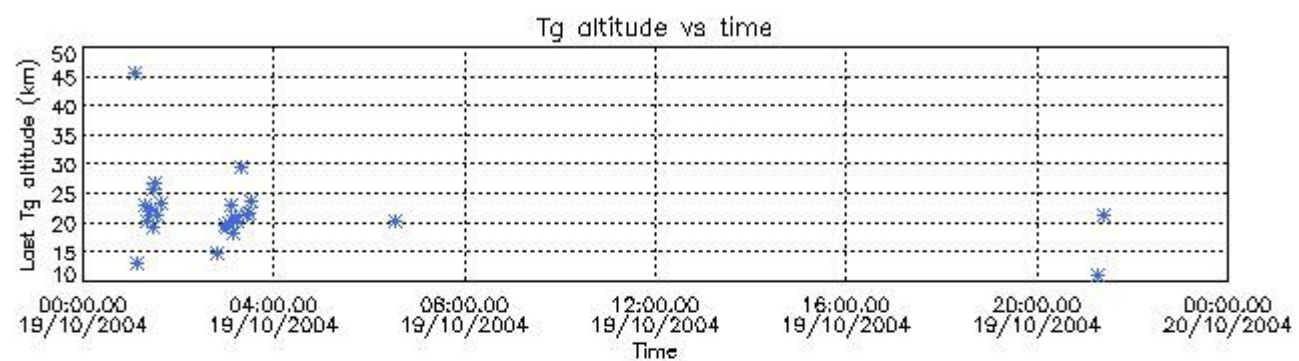
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

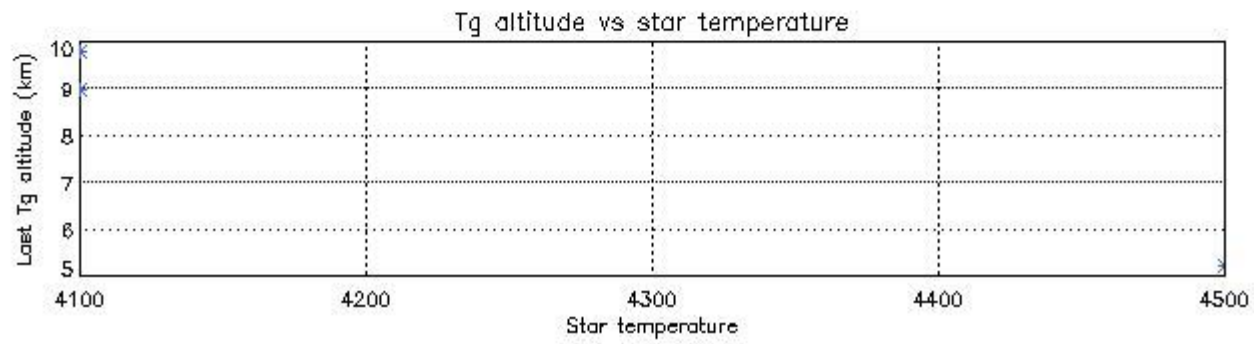
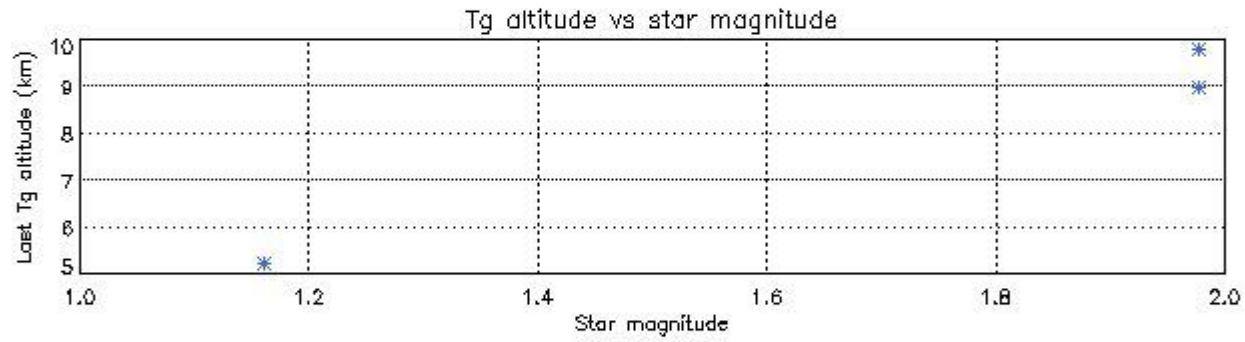
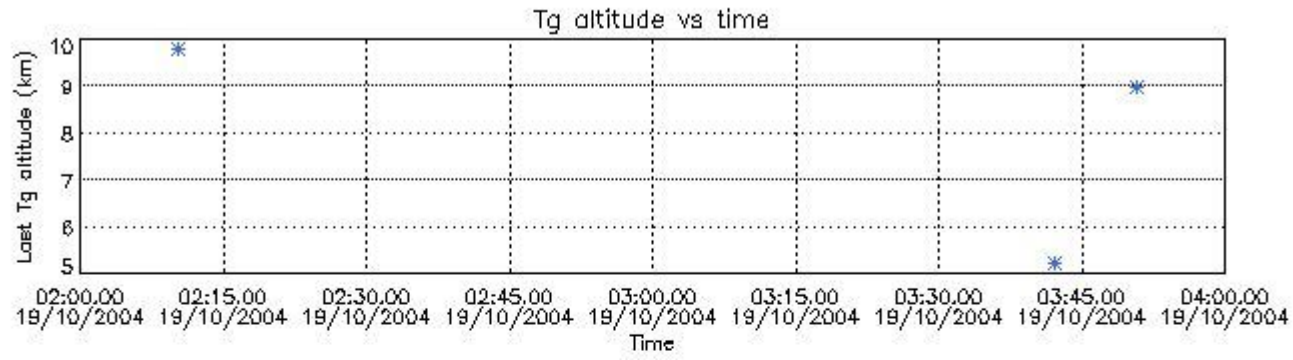
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



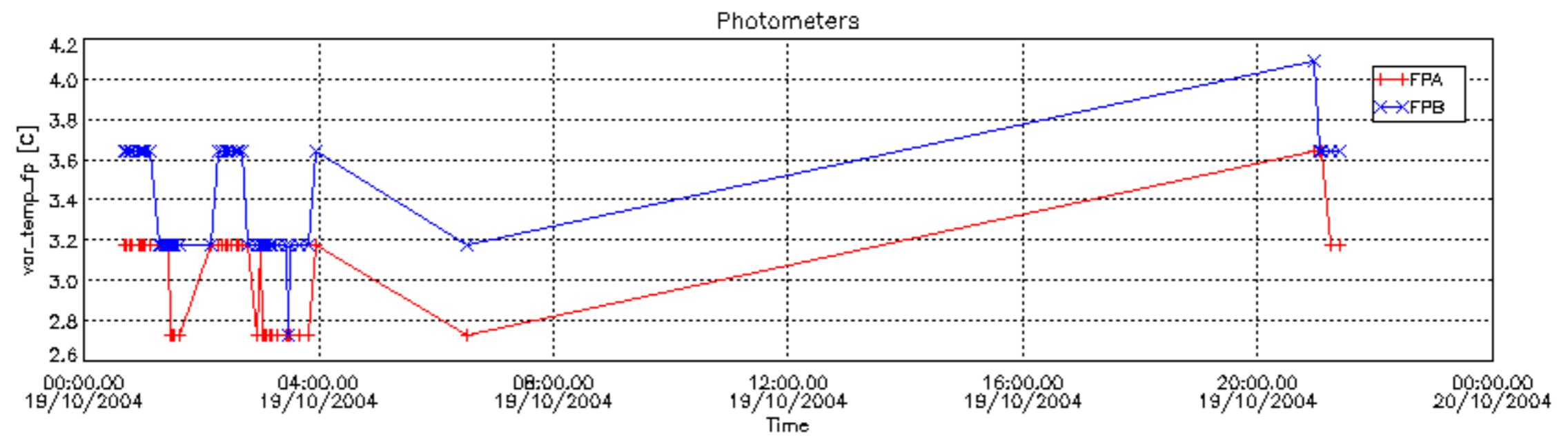
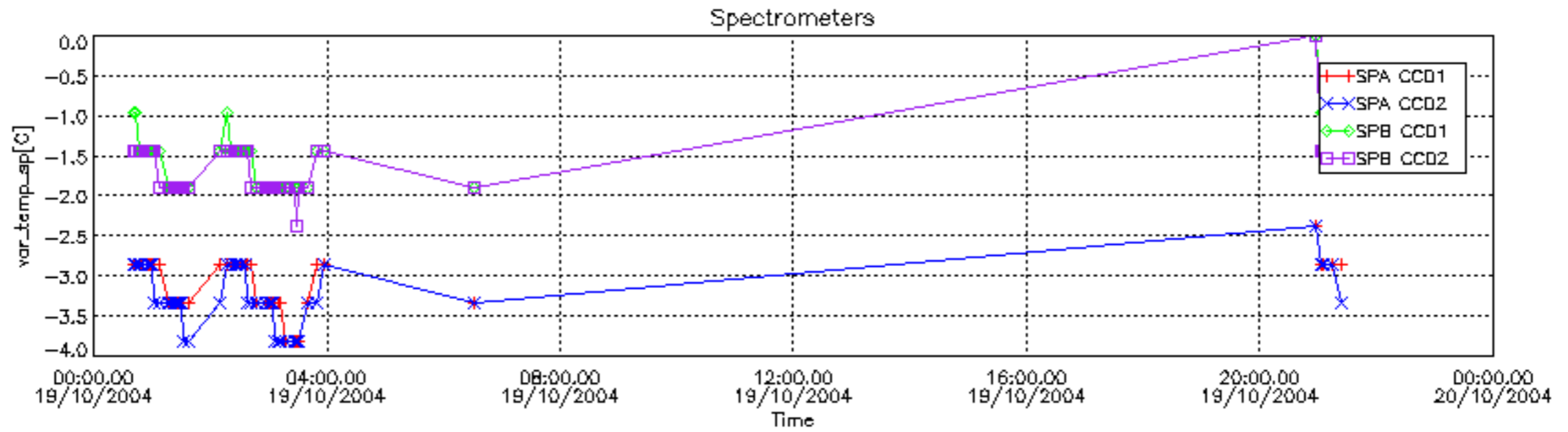
Tangent altitude at which the star is lost

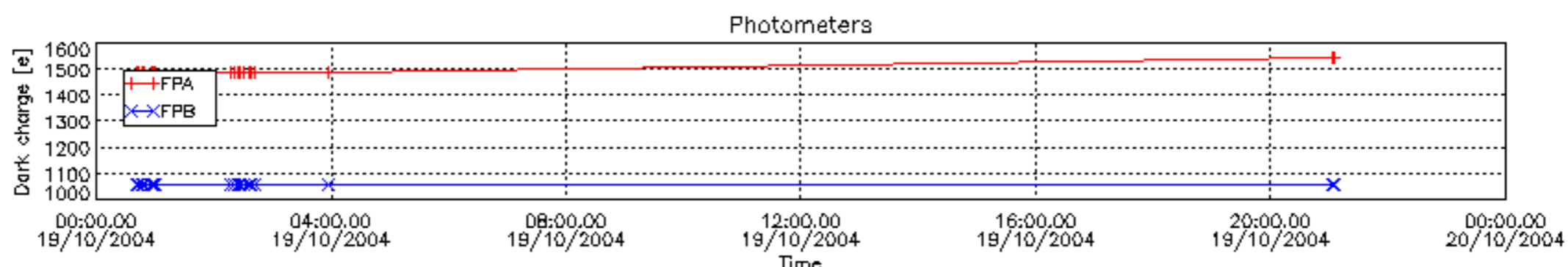
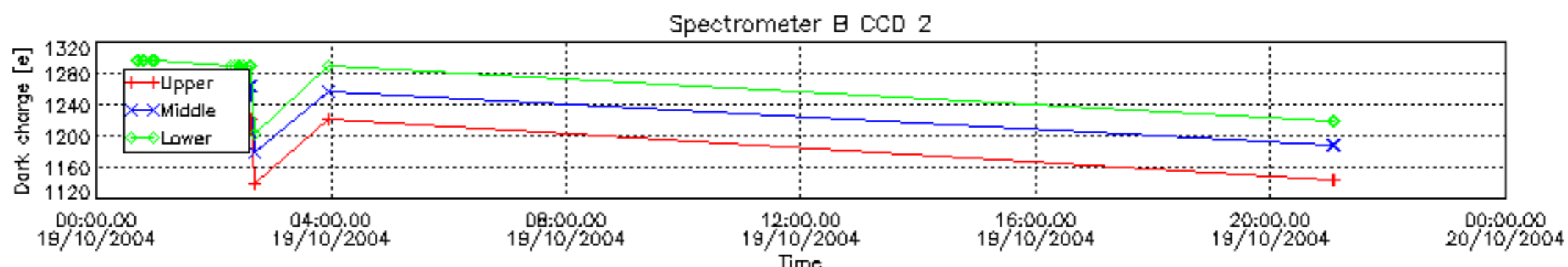
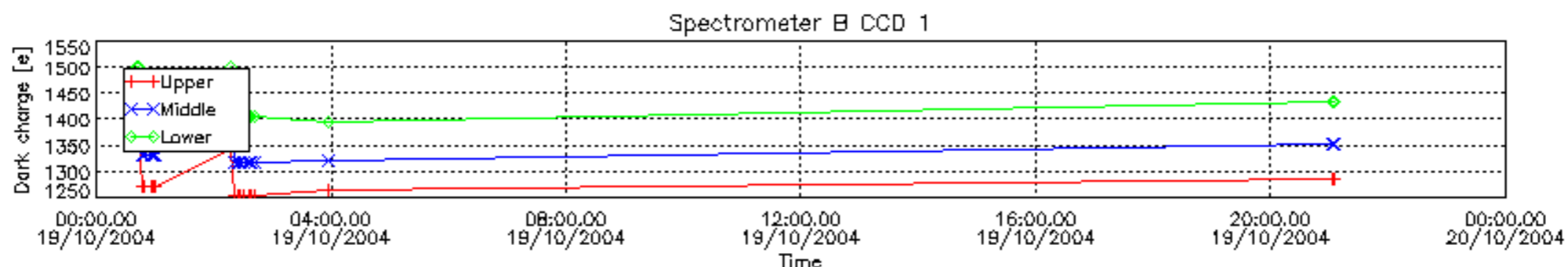
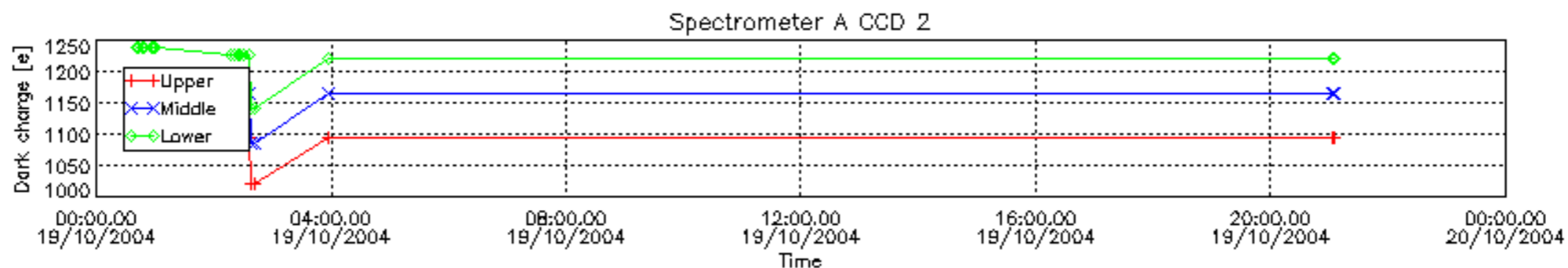
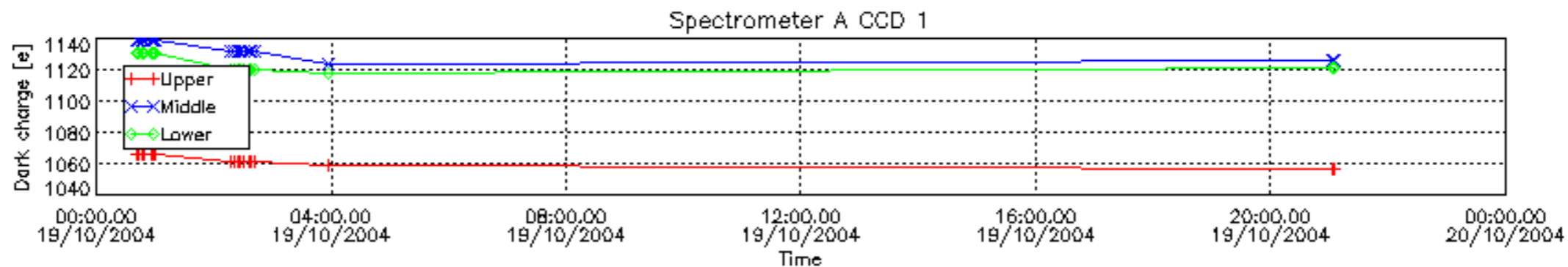


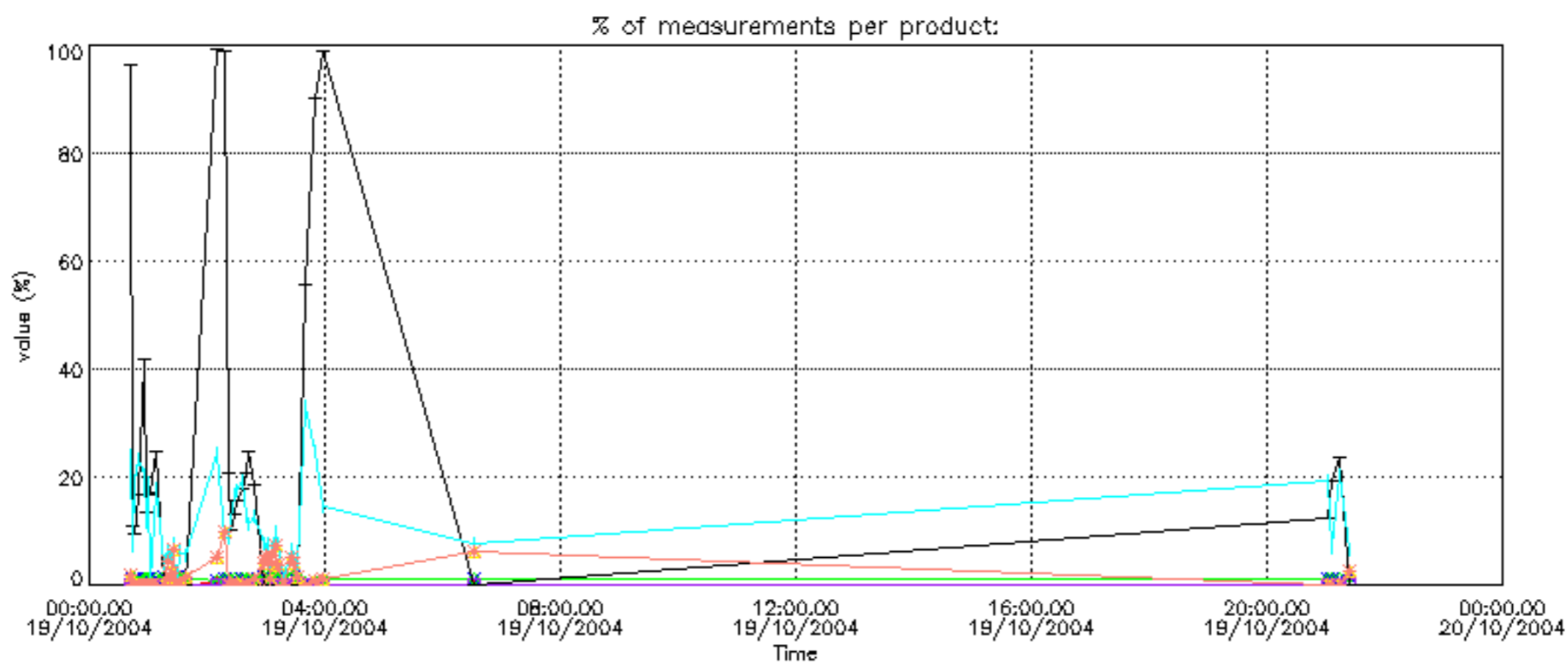
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1461.9	1448.1	1461.4	1447.2
St. deviation:	4.3387	5.3918	8.0190	8.6472
Maximum:	1500.0	1483.0	1517.0	1503.0
Minimum:	1430.0	1407.0	1408.0	1389.0
Number of data:	28950.	28950.	34350.	34350.

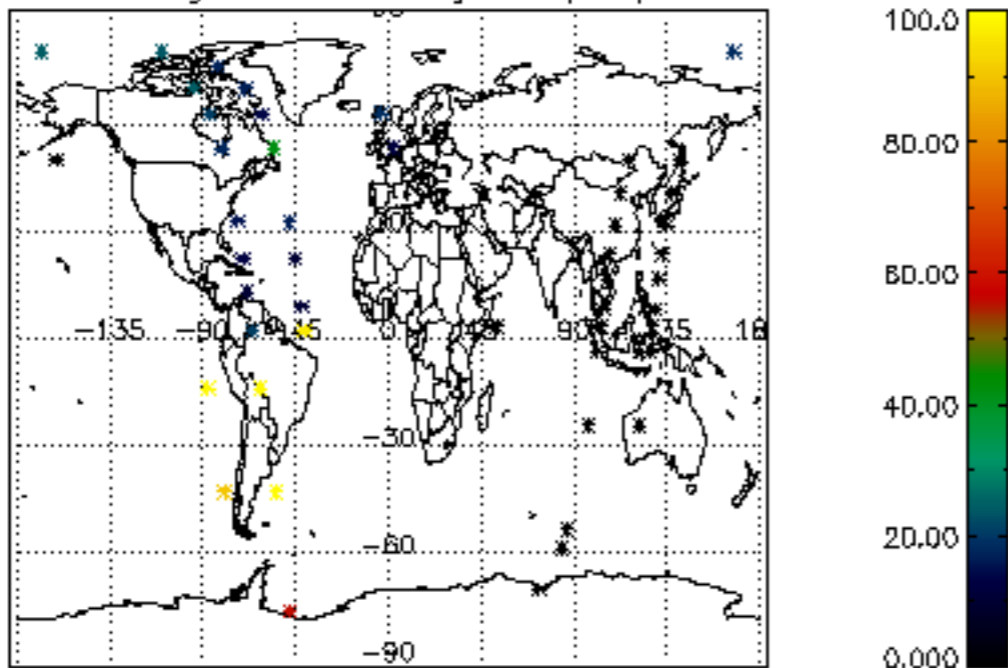




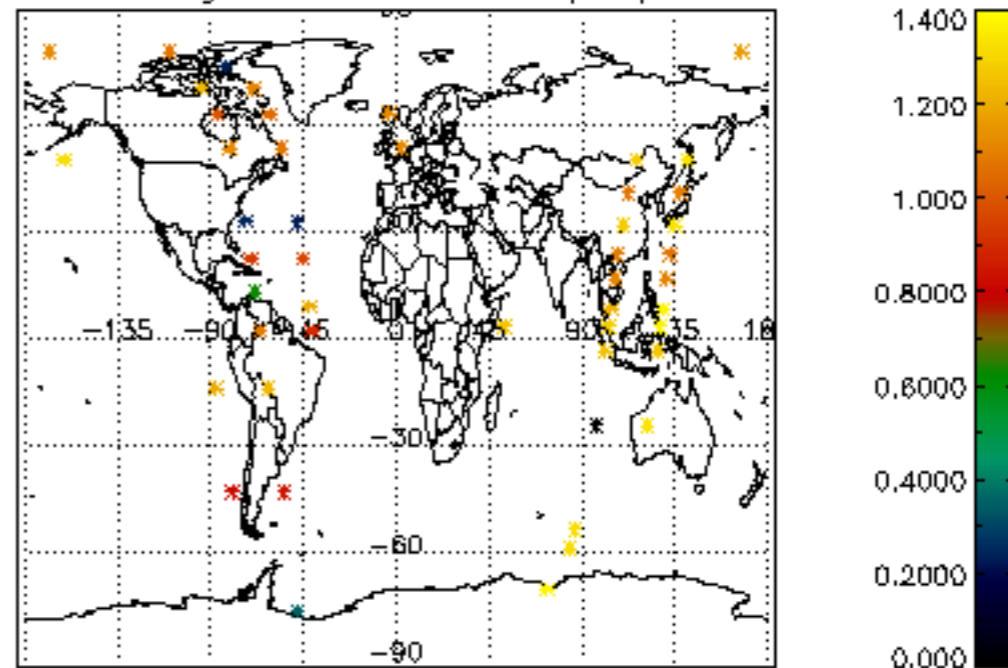




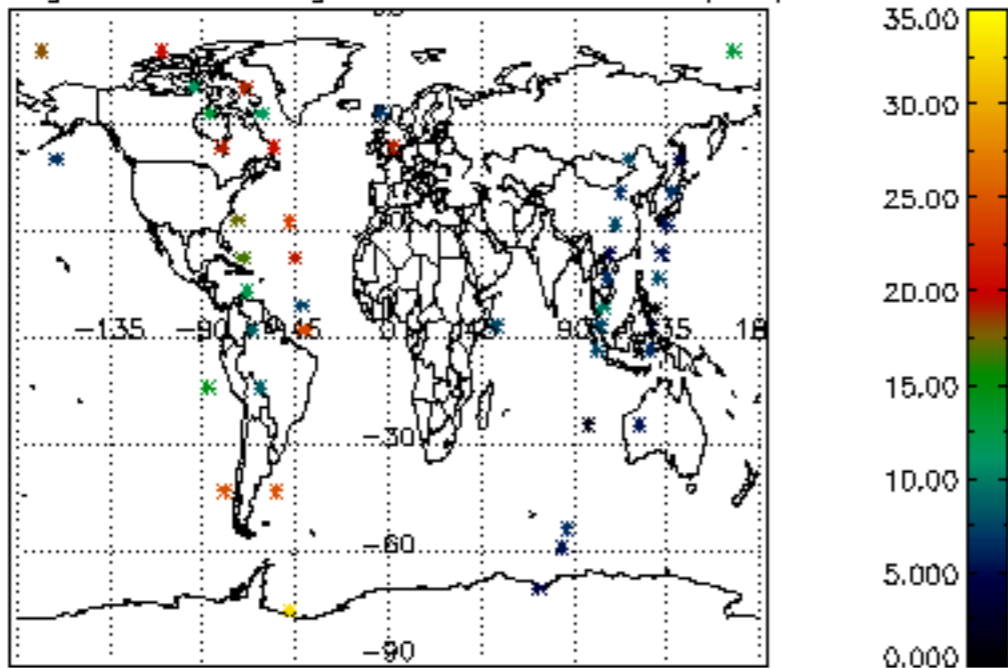
Percentage of cosmic ray hits per profile



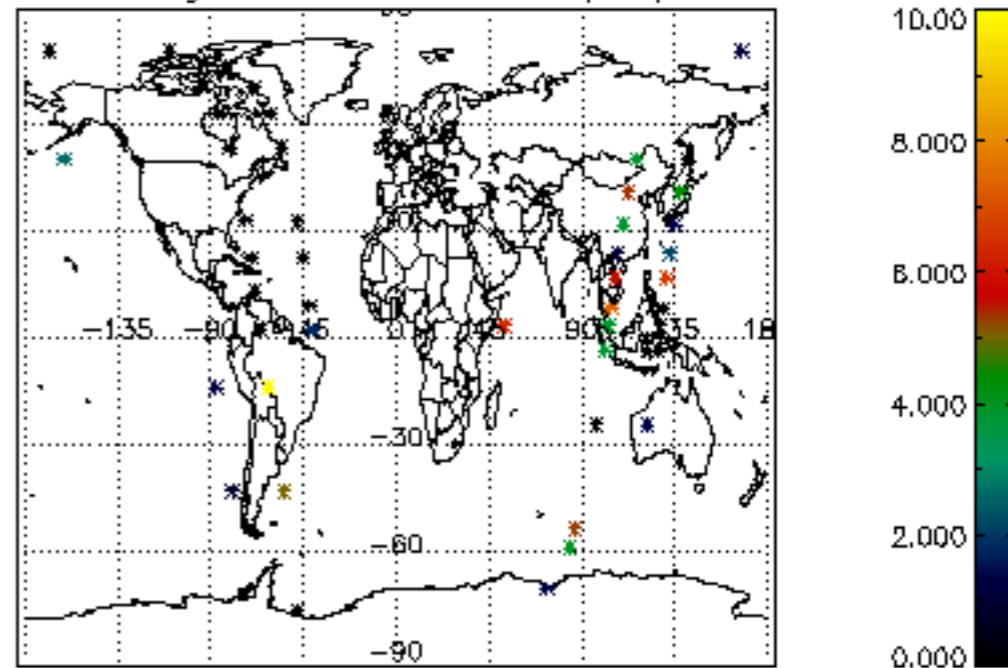
Percentage of datation errors per profile



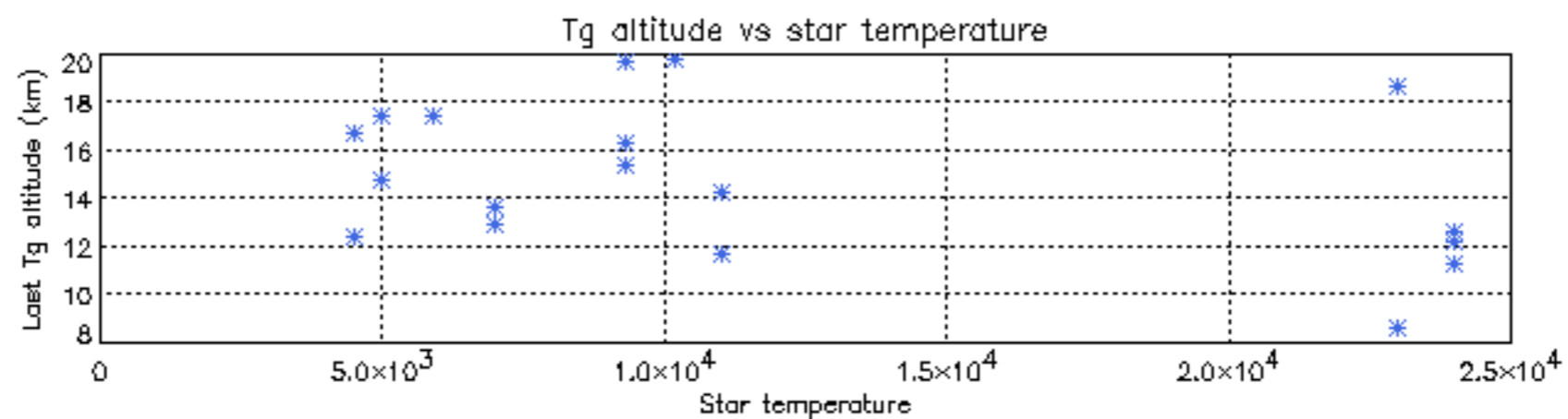
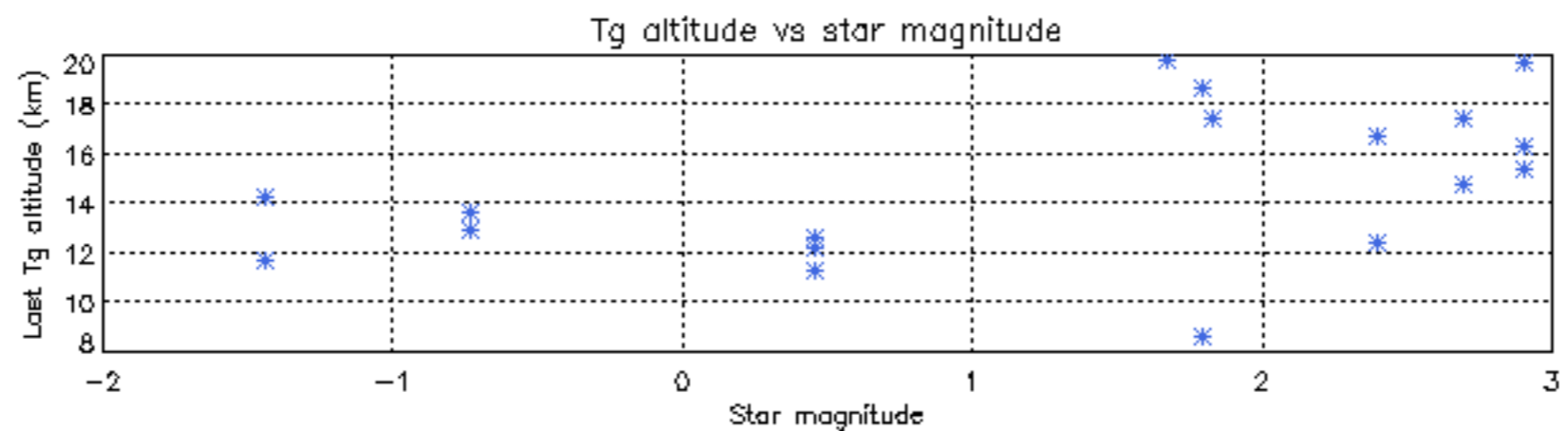
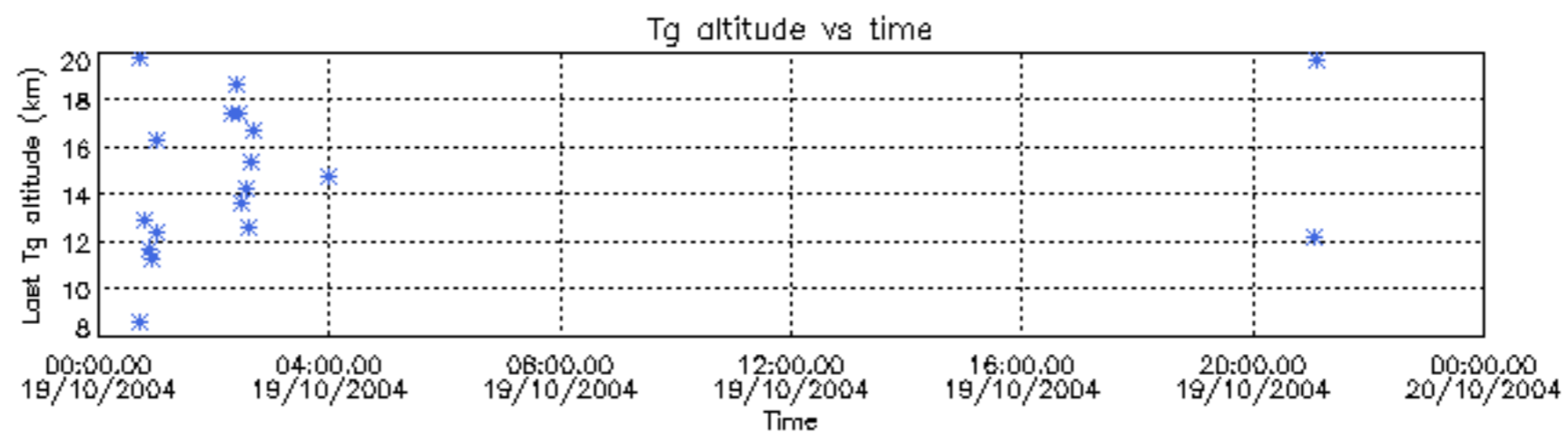
Percentage of star falling outside central band per profile



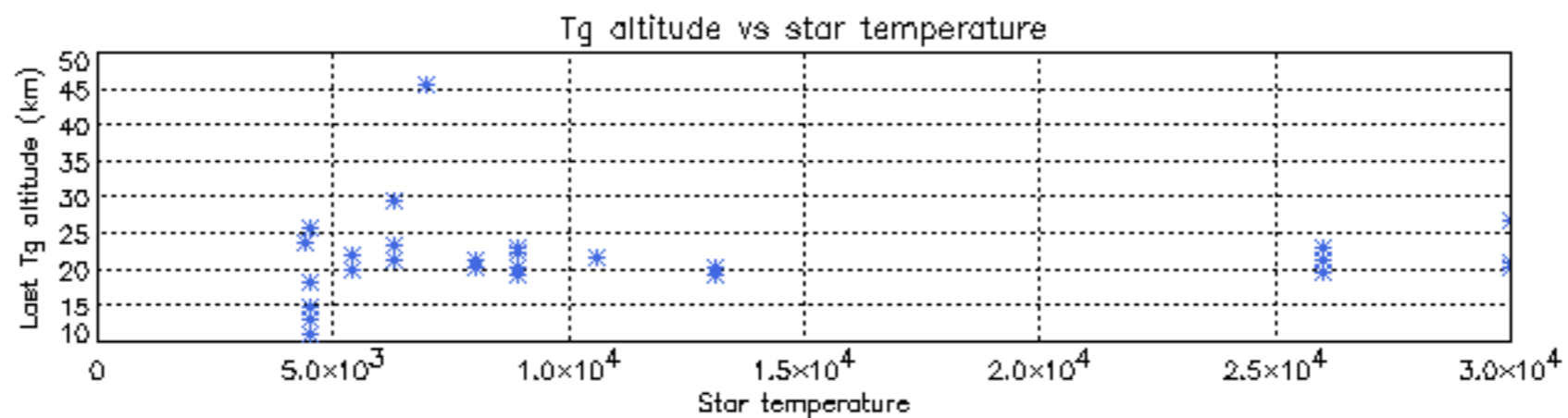
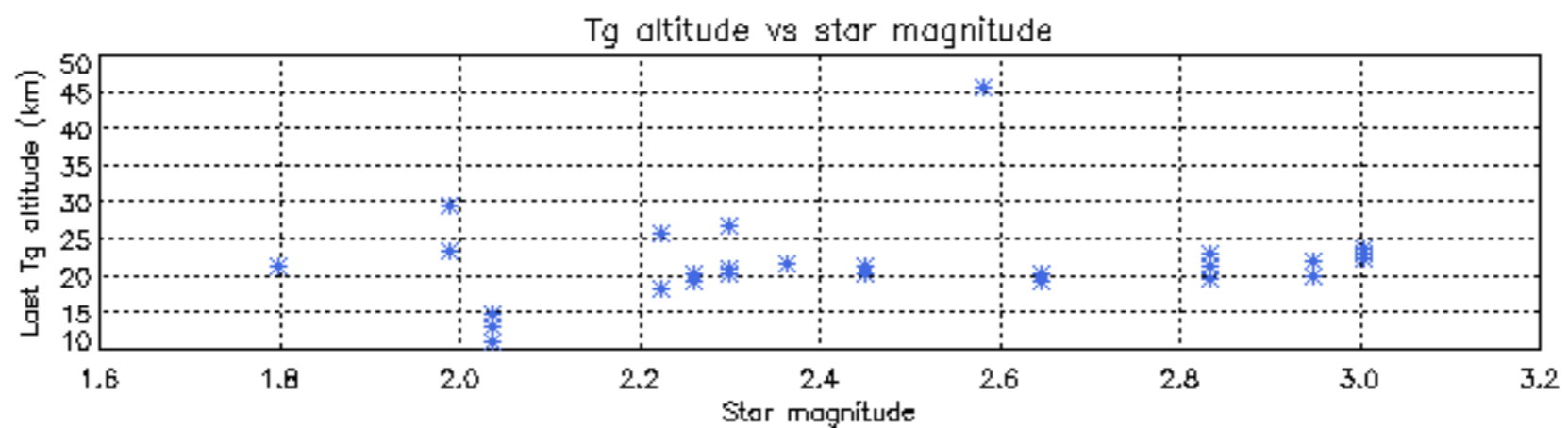
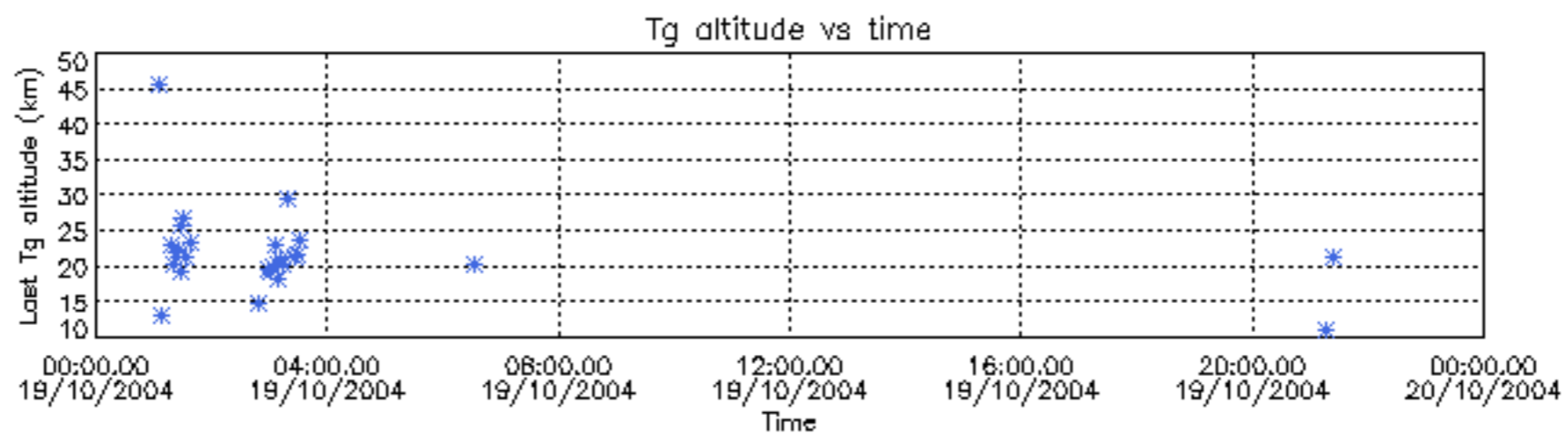
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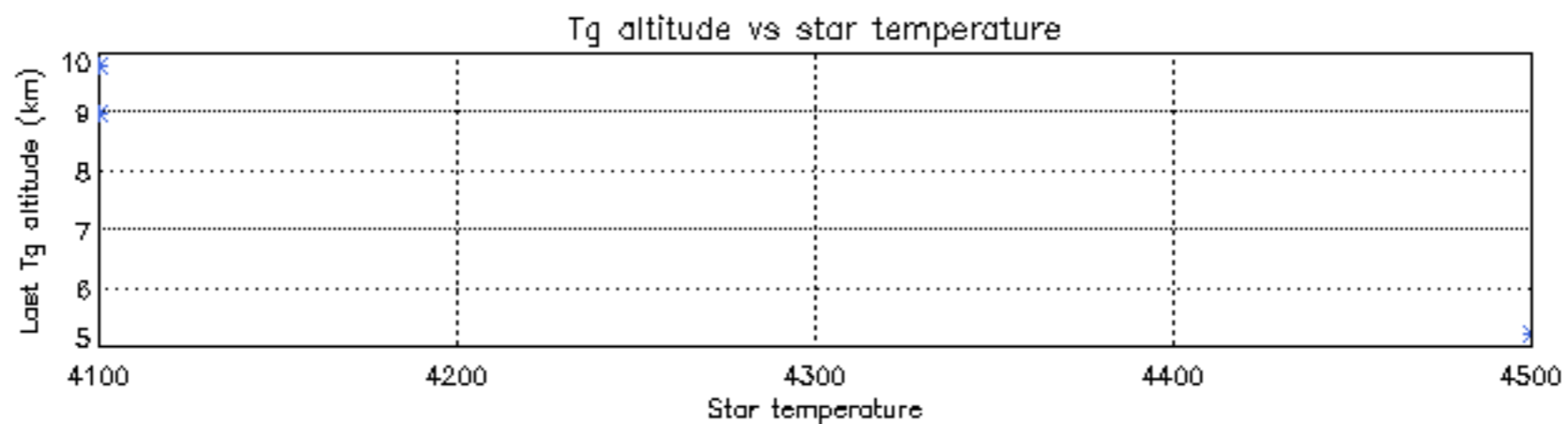
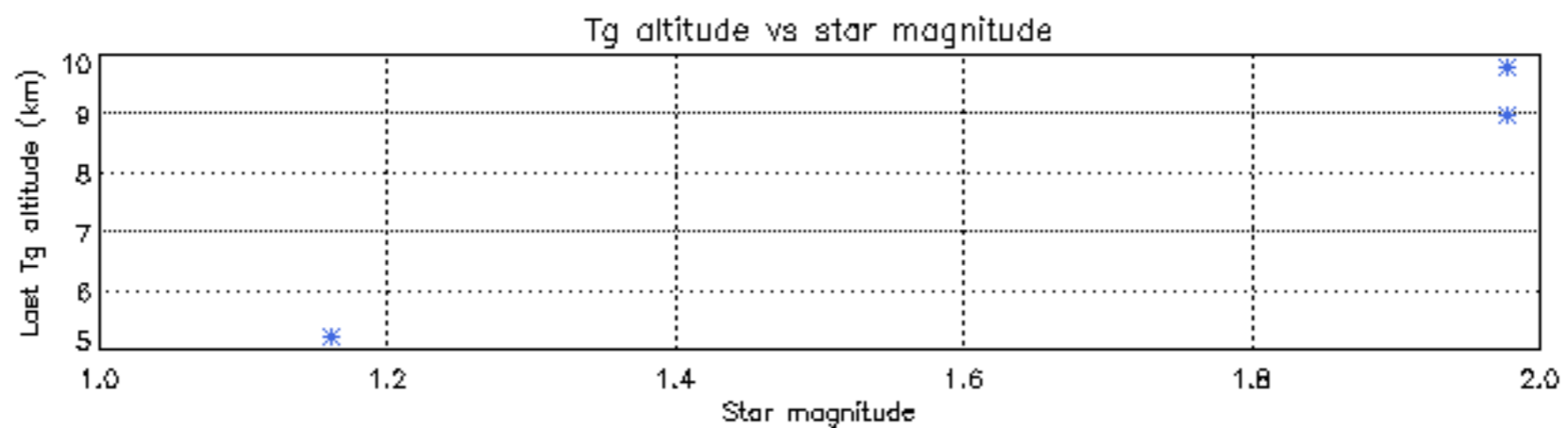
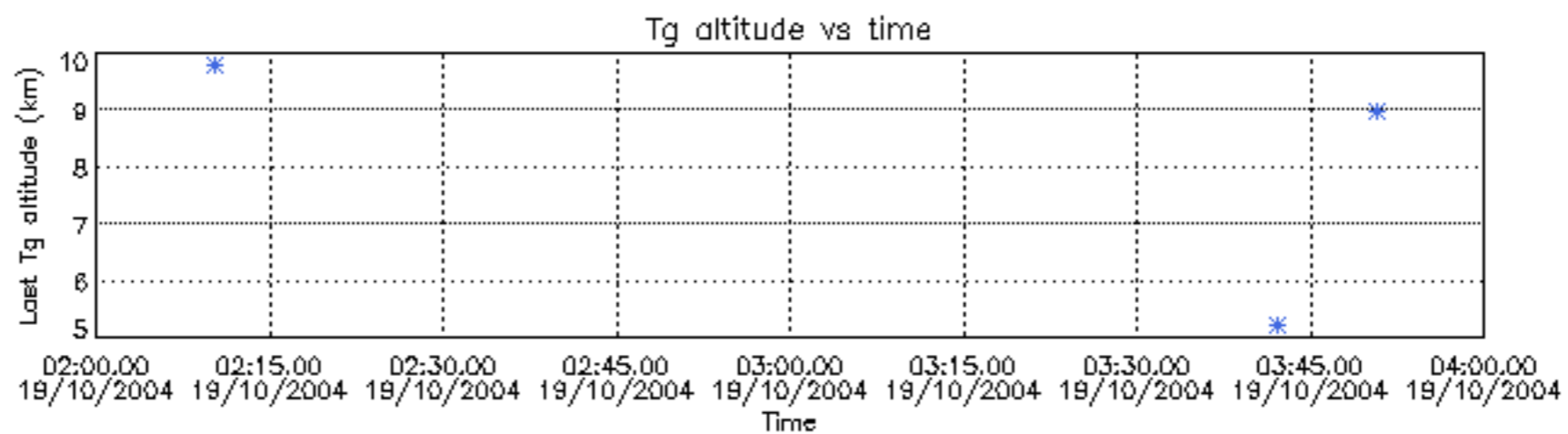
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 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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 7; 308.8; 01-OCT-2004 01:51:52; Dark ; 65.5; 108; Alp Col ; 2.65; 15200;occ; 131; 0;13527  
 8; 602.9; 01-OCT-2004 01:56:46; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;13527  
 9; 732.6; 01-OCT-2004 01:58:56; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13527  
 10; 819.5; 01-OCT-2004 02:00:23; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13527  
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 12; 1141.6; 01-OCT-2004 02:05:45; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;13527  
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 18; 2522.4; 01-OCT-2004 02:28:46; Bright; 65.5; 105; 6Bet Ari ; 2.64; 8900;occ; 131; 0;13527  
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 22; 3263.7; 01-OCT-2004 02:41:07; Bright; 54.5; 160; 23Gam Per ; 2.93; 4700;occ; 109; 0;13527  
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 19; 1141.4; 01-OCT-2004 03:46:21; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13528  
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 25; 2520.9; 01-OCT-2004 04:09:20; Bright; 64.0; 105; 6Bet Ari ; 2.64; 8900;occ; 128; 0;13528  
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11; 2946.2; 01-OCT-2004 21:02:25; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;13538
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29;	5215.9;	03-OCT-2004	23:58:13;	Dark	;	92.5;	8;	10Alp CMI	;	0.40;	6500;occ;	185;	0;	13568

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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
3;	-189.6;	04-OCT-2004	00:08:44;	Dark	;	45.5;	70;	Zet Pup	;	2.25;	39000;occ;	91;	0;	13568
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	
19;	3223.9;	04-OCT-2004	01:05:37;	Bright;	47.5;	160;	23Gam Per	;	2.93;	4700;occ;	95;	0;	13569	
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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3;	-1843.6;	03-OCT-2004	06:55:10;	Bright;	37.0;	174;	52Psi UMa	;	3.00;	4400;occ;	74;	0;	13558	
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5;	-1518.9;	03-OCT-2004	07:00:35;	Bright;	62.0;	24;	66Alp Gem	;	1.58;	10200;occ;	124;	0;	13558	
6;	-1203.4;	03-OCT-2004	07:05:51;	Dark	;	119.0;	170;	27Eps Gem	;	3.00;	9700;occ;	238;	0;	13558
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
20; 1561.3; 03-OCT-2004 07:51:55; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 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
20; -280.3; 03-OCT-2004 09:01:50; Dark ; 50.0; 65; Lam Vel ; 2.20; 4400;occ; 100; 0;13559
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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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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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
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12;	1155.4;	05-OCT-2004	01:40:08;	Dark	;	45.5;	84;	Alp Phe	;	2.40;	4500;occ;	91;	0;	13584
13;	1429.9;	05-OCT-2004	01:44:43;	Dark	;	45.0;	18;	24Alp PsA	;	1.17;	9700;occ;	90;	0;	13584
14;	1563.3;	05-OCT-2004	01:46:56;	Dark	;	47.5;	52;	16Bet Cet	;	2.04;	4500;occ;	95;	0;	13584
15;	1754.2;	05-OCT-2004	01:50:07;	Bright;	216.0;	165;	34Gam Eri	;	2.95;	3200;occ;	432;	0;	13584	
16;	2170.0;	05-OCT-2004	01:57:03;	Bright;	39.5;	90;	54Alp Peg	;	2.49;	11000;occ;	79;	0;	13584	
17;	2383.9;	05-OCT-2004	02:00:36;	Bright;	41.5;	93;	53Bet Peg	;	2.52;	3100;occ;	83;	0;	13584	
18;	2618.7;	05-OCT-2004	02:04:31;	Bright;	49.0;	53;	43Bet And	;	2.05;	3300;occ;	98;	0;	13584	
19;	2786.6;	05-OCT-2004	02:07:19;	Bright;	55.0;	173;	4Bet Tri	;	3.00;	8900;occ;	110;	0;	13584	
20;	3209.3;	05-OCT-2004	02:14:22;	Bright;	52.0;	160;	23Gam Per	;	2.93;	4700;occ;	104;	0;	13584	
21;	3425.5;	05-OCT-2004	02:17:58;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	13584	

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2;	-2034.6;	05-OCT-2004	07:29:22;	Bright;	35.5;	82;	48Bet UMA	;	2.37;	10600;occ;	71;	0;	13587	
3;	-1839.3;	05-OCT-2004	07:32:37;	Bright;	52.0;	174;	52Psi UMA	;	3.00;	4400;occ;	104;	0;	13587	
4;	-1730.1;	05-OCT-2004	07:34:26;	Bright;	106.0;	107;	37The Aur	;	2.65;	11000;occ;	212;	0;	13587	
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6;	-1166.7;	05-OCT-2004	07:43:50;	Dark	;	133.5;	170;	27Eps Gem	;	3.00;	9700;occ;	267;	0;	13587
7;	-796.3;	05-OCT-2004	07:50:00;	Dark	;	84.5;	8;	10Alp CMI	;	0.40;	6500;occ;	169;	0;	13587
8;	-393.0;	05-OCT-2004	07:56:44;	Dark	;	51.5;	132;	15Rho Pup	;	2.80;	6900;occ;	103;	0;	13587
9;	-268.0;	05-OCT-2004	07:58:49;	Dark	;	46.0;	65;	Lam Vel	;	2.20;	4400;occ;	92;	0;	13587
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12;	220.3;	05-OCT-2004	08:06:57;	Dark	;	47.5;	2;	Alp Car	;	-0.74;	7000;occ;	95;	0;	13588
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16;	842.7;	05-OCT-2004	08:17:19;	Dark	;	46.5;	9;	Alp Eri	;	0.45;	24000;occ;	93;	0;	13588
17;	958.9;	05-OCT-2004	08:19:15;	Dark	;	52.0;	157;	The1Eri	;	2.91;	9300;occ;	104;	0;	13588
18;	1157.8;	05-OCT-2004	08:22:34;	Dark	;	44.0;	84;	Alp Phe	;	2.40;	4500;occ;	88;	0;	13588
19;	1430.3;	05-OCT-2004	08:27:07;	Dark	;	44.5;	18;	24Alp PsA	;	1.17;	9700;occ;	89;	0;	13588
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2;	-4288.3;	05-OCT-2004	08:32:24;	Bright;	216.0;	165;	34Gam Eri	;	2.95;	3200;occ;	432;	0;	13588	
3;	-3864.0;	05-OCT-2004	08:39:28;	Bright;	36.5;	90;	54Alp Peg	;	2.49;	11000;occ;	73;	0;	13588	
4;	-3648.7;	05-OCT-2004	08:43:04;	Bright;	36.5;	93;	53Bet Peg	;	2.52;	3100;occ;	73;	0;	13588	
5;	-3419.1;	05-OCT-2004	08:46:53;	Bright;	48.5;	53;	43Bet And	;	2.05;	3300;occ;	97;	0;	13588	
6;	-3254.1;	05-OCT-2004	08:49:38;	Bright;	55.5;	173;	4Bet Tri	;	3.00;	8900;occ;	111;	0;	13588	
7;	-3114.5;	05-OCT-2004	08:51:58;	Bright;	40.5;	68;	18Alp Cas	;	2.22;	4500;occ;	81;	0;	13588	
8;	-3023.2;	05-OCT-2004	08:53:29;	Bright;	38.0;	89;	5Alp Cep	;	2.45;	8000;occ;	76;	0;	13588	
9;	-2830.8;	05-OCT-2004	08:56:42;	Bright;	49.5;	160;	23Gam Per	;	2.93;	4700;occ;	99;	0;	13588	
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11;	-2468.3;	05-OCT-2004	09:02:44;	Bright;	37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	13588	
12;	-2125.6;	05-OCT-2004	09:08:27;	Bright;	37.0;	36;	50Alp UMA	;	1.80;	6300;occ;	74;	0;	13588	
13;	-2034.8;	05-OCT-2004	09:09:58;	Bright;	36.5;	82;	48Bet UMA	;	2.37;	10600;occ;	73;	0;	13588	
14;	-1838.8;	05-OCT-2004	09:13:14;	Bright;	36.5;	174;	52Psi UMA	;	3.00;	4400;occ;	73;	0;	13588	
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21;	-174.0;	05-OCT-2004	09:40:58;	Dark	;	44.5;	70;	Zet Pup	;	2.25;	39000;occ;	89;	0;	13588
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27; 843.0; 05-OCT-2004 09:57:55; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;13589
28; 958.9; 05-OCT-2004 09:59:51; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13589
29; 1157.9; 05-OCT-2004 10:03:10; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;13589
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6; 2428.7; 20-OCT-2004 20:56:44; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;13810
7; 2531.1; 20-OCT-2004 20:58:26; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;13810
8; 2719.7; 20-OCT-2004 21:01:35; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;13810
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4;	209.3;	20-OCT-2004	22:00:20;	Dark	;	65.5;	117;	Pi Pup	;	2.71;	3800;occ;	131;	0;	13811
5;	398.7;	20-OCT-2004	22:03:30;	Dark	;	50.5;	2;	Alp Car	;	-0.74;	7000;occ;	101;	0;	13811
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8;	1203.7;	20-OCT-2004	22:16:55;	Dark	;	42.0;	84;	Alp Phe	;	2.40;	4500;occ;	84;	0;	13811
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
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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17;	3081.5;	20-OCT-2004	22:48:13;	Bright;	;	38.5;	89;	5Alp Cep	;	2.45;	8000;occ;	77;	0;	13811
18;	3422.2;	20-OCT-2004	22:53:53;	Bright;	;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	13811
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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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16;	2951.3;	21-OCT-2004	00:26:38;	Bright;	;	38.5;	76;	27Gam Cas	;	2.30;	30000;occ;	77;	0;	13812
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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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