

# GOMOS Daily Report 14-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	15OCT2004 05:03:24
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (14OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (15OCT2004 00:00:00)

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

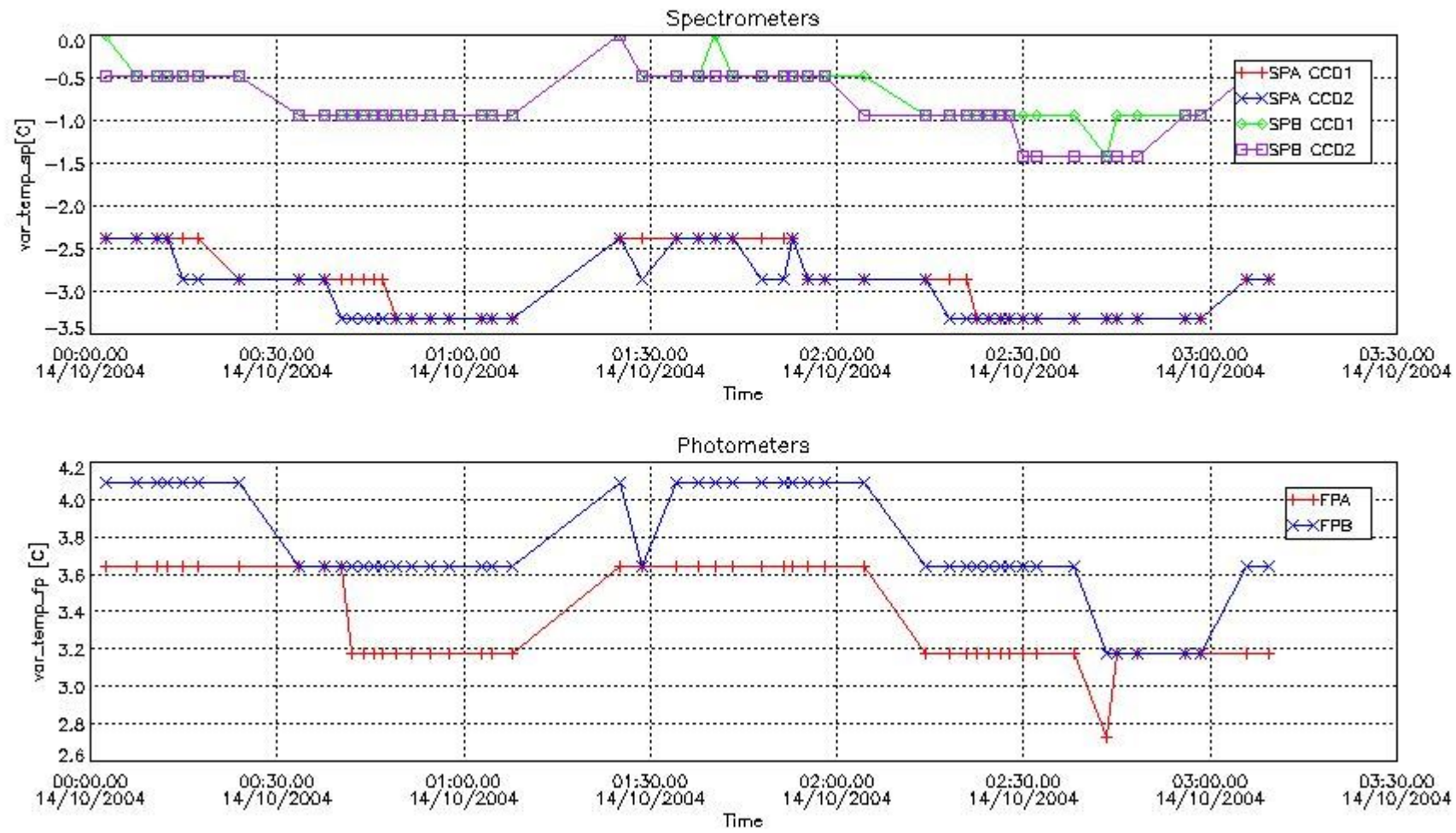
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20041014_000229_000001332031_00131_13712_0005.N1	14-OCT-2004 00:02:29	Dark	133.00	1	9Alp CMa	-1.4400	11000.	266	13712	No
GOM_TRA_1PNPDE20041014_000722_000000712031_00131_13712_0006.N1	14-OCT-2004 00:07:22	Dark	70.500	108	Alp Col	2.6520	15200.	141	13712	No
GOM_TRA_1PNPDE20041014_001049_000000432031_00131_13712_0007.N1	14-OCT-2004 00:10:49	Dark	43.000	143	Alp Hyi	2.8570	7200.0	86	13712	No
GOM_TRA_1PNPDE20041014_001216_000000412031_00131_13712_0008.N1	14-OCT-2004 00:12:16	Dark	40.500	9	Alp Eri	0.45300	24000.	81	13712	No
GOM_TRA_1PNPDE20041014_001444_000000472031_00131_13712_0009.N1	14-OCT-2004 00:14:44	Dark	46.500	157	The1Eri	2.9060	9300.0	93	13712	No
GOM_TRA_1PNPDE20041014_001718_000000482031_00131_13712_0010.N1	14-OCT-2004 00:17:18	Twilight	48.000	84	Alp Phe	2.3970	4500.0	96	13712	No
GOM_TRA_1PNPDE20041014_002353_000000512031_00131_13712_0011.N1	14-OCT-2004 00:23:53	Bright	50.500	52	16Bet Cet	2.0370	4500.0	101	13712	No
GOM_TRA_1PNPDE20041014_003336_000000402031_00131_13712_0012.N1	14-OCT-2004 00:33:36	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	13712	No
GOM_TRA_1PNPDE20041014_003736_000000402031_00131_13712_0013.N1	14-OCT-2004 00:37:36	Bright	40.000	58	21Alp And	2.0730	11000.	80	13712	No
GOM_TRA_1PNPDE20041014_004013_000000452031_00131_13712_0014.N1	14-OCT-2004 00:40:13	Bright	45.000	53	43Bet And	2.0480	3300.0	90	13712	No
GOM_TRA_1PNPDE20041014_004201_000000492031_00131_13712_0015.N1	14-OCT-2004 00:42:01	Bright	48.500	173	4Bet Tri	3.0040	8900.0	97	13712	No
GOM_TRA_1PNPDE20041014_004350_000000472031_00131_13712_0016.N1	14-OCT-2004 00:43:50	Bright	46.500	73	57Gam1And	2.2600	13100.	93	13712	No
GOM_TRA_1PNPDE20041014_004541_000000402031_00131_13712_0017.N1	14-OCT-2004 00:45:41	Bright	40.000	68	18Alp Cas	2.2250	4500.0	80	13712	No
GOM_TRA_1PNPDE20041014_004704_000000402031_00131_13712_0018.N1	14-OCT-2004 00:47:04	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	13712	No
GOM_TRA_1PNPDE20041014_004912_000000482031_00131_13712_0019.N1	14-OCT-2004 00:49:12	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	13712	No
GOM_TRA_1PNPDE20041014_005128_000000732031_00131_13712_0020.N1	14-OCT-2004 00:51:28	Bright	72.500	149	45Eps Per	2.8880	30000.	145	13712	No
GOM_TRA_1PNPDE20041014_005436_000000392031_00131_13712_0021.N1	14-OCT-2004 00:54:36	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13712	No
GOM_TRA_1PNPDE20041014_005732_000000402031_00131_13712_0022.N1	14-OCT-2004 00:57:32	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	13712	No
GOM_TRA_1PNPDE20041014_010250_000000412031_00131_13712_0023.N1	14-OCT-2004 01:02:50	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	13712	No
GOM_TRA_1PNPDE20041014_010423_000000392031_00131_13712_0024.N1	14-OCT-2004 01:04:23	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	13712	No
GOM_TRA_1PNPDE20041014_010745_000000372031_00131_13712_0025.N1	14-OCT-2004 01:07:45	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	13712	No
GOM_TRA_1PNPDE20041014_012511_000000522031_00131_13712_0000.N1	14-OCT-2004 01:25:11	Twilight	52.000	48	30Alp Hya	1.9770	4100.0	104	13712	No
GOM_TRA_1PNPDE20041014_012847_000001302031_00131_13712_0001.N1	14-OCT-2004 01:28:47	Dark	129.50	8	10Alp CMi	0.40000	6500.0	259	13712	No
GOM_TRA_1PNPDE20041014_013401_000000392031_00131_13712_0002.N1	14-OCT-2004 01:34:01	Dark	39.000	113	Mu Vel	2.6920	5000.0	78	13712	No
GOM_TRA_1PNPDE20041014_013750_000000472031_00131_13712_0003.N1	14-OCT-2004 01:37:50	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	13712	No
GOM_TRA_1PNPDE20041014_014024_000000422031_00132_13713_0004.N1	14-OCT-2004 01:40:24	Dark	42.000	29	Bet Car	1.6720	10200.	84	13713	No
GOM_TRA_1PNPDE20041014_014308_000001432031_00132_13713_0005.N1	14-OCT-2004 01:43:08	Dark	143.00	1	9Alp CMa	-1.4400	11000.	286	13713	No
GOM_TRA_1PNPDE20041014_014801_000000682031_00132_13713_0006.N1	14-OCT-2004 01:48:01	Dark	67.500	108	Alp Col	2.6520	15200.	135	13713	No
GOM_TRA_1PNPDE20041014_015125_000000392031_00132_13713_0007.N1	14-OCT-2004 01:51:25	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	13713	No
GOM_TRA_1PNPDE20041014_015252_000000472031_00132_13713_0008.N1	14-OCT-2004 01:52:52	Dark	46.500	9	Alp Eri	0.45300	24000.	93	13713	No
GOM_TRA_1PNPDE20041014_015519_000000502031_00132_13713_0009.N1	14-OCT-2004 01:55:19	Dark	50.000	157	The1Eri	2.9060	9300.0	100	13713	No
GOM_TRA_1PNPDE20041014_015755_000000432031_00132_13713_0010.N1	14-OCT-2004 01:57:55	Twilight	42.500	84	Alp Phe	2.3970	4500.0	85	13713	No
GOM_TRA_1PNPDE20041014_020429_000000472031_00132_13713_0011.N1	14-OCT-2004 02:04:29	Bright	46.500	52	16Bet Cet	2.0370	4500.0	93	13713	No
GOM_TRA_1PNPDE20041014_021411_000000412031_00132_13713_0012.N1	14-OCT-2004 02:14:11	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	13713	No
GOM_TRA_1PNPDE20041014_021811_000000392031_00132_13713_0013.N1	14-OCT-2004 02:18:11	Bright	39.000	58	21Alp And	2.0730	11000.	78	13713	No
GOM_TRA_1PNPDE20041014_022049_000000462031_00132_13713_0014.N1	14-OCT-2004 02:20:49	Bright	46.000	53	43Bet And	2.0480	3300.0	92	13713	No
GOM_TRA_1PNPDE20041014_022236_000000472031_00132_13713_0015.N1	14-OCT-2004 02:22:36	Bright	47.000	173	4Bet Tri	3.0040	8900.0	94	13713	No
GOM_TRA_1PNPDE20041014_022425_000000482031_00132_13713_0016.N1	14-OCT-2004 02:24:25	Bright	47.500	73	57Gam1And	2.2600	13100.	95	13713	No
GOM_TRA_1PNPDE20041014_022615_000000412031_00132_13713_0017.N1	14-OCT-2004 02:26:15	Bright	40.500	68	18Alp Cas	2.2250	4500.0	81	13713	No
GOM_TRA_1PNPDE20041014_022739_000000382031_00132_13713_0018.N1	14-OCT-2004 02:27:39	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	13713	No
GOM_TRA_1PNPDE20041014_022947_000000452031_00132_13713_0019.N1	14-OCT-2004 02:29:47	Bright	45.000	160	23Gam Per	2.9300	4700.0	90	13713	No
GOM_TRA_1PNPDE20041014_023203_000000712031_00132_13713_0020.N1	14-OCT-2004 02:32:03	Bright	70.500	149	45Eps Per	2.8880	30000.	141	13713	No
GOM_TRA_1PNPDE20041014_023808_000000402031_00132_13713_0000.N1	14-OCT-2004 02:38:08	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	13713	No
GOM_TRA_1PNPDE20041014_024324_000000422031_00132_13713_0001.N1	14-OCT-2004 02:43:24	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	13713	No
GOM_TRA_1PNPDE20041014_024459_000000372031_00132_13713_0002.N1	14-OCT-2004 02:44:59	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	13713	No
GOM_TRA_1PNPDE20041014_024821_000000422031_00132_13713_0003.N1	14-OCT-2004 02:48:21	Bright	42.000	174	52Psi UMa	3.0040	4400.0	84	13713	No
GOM_TRA_1PNPDE20041014_025559_000000852031_00132_13713_0004.N1	14-OCT-2004 02:55:59	Bright	84.500	17	78Bet Gem	1.1610	4500.0	169	13713	No
GOM_TRA_1PNPDE20041014_025831_000000432031_00132_13713_0005.N1	14-OCT-2004 02:58:31	Twilight	43.000	22	32Alp Leo	1.3600	15200.	86	13713	No
GOM_TRA_1PNPDE20041014_030547_000000562031_00132_13713_0006.N1	14-OCT-2004 03:05:47	Twilight	56.000	48	30Alp Hya	1.9770	4100.0	112	13713	No

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



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

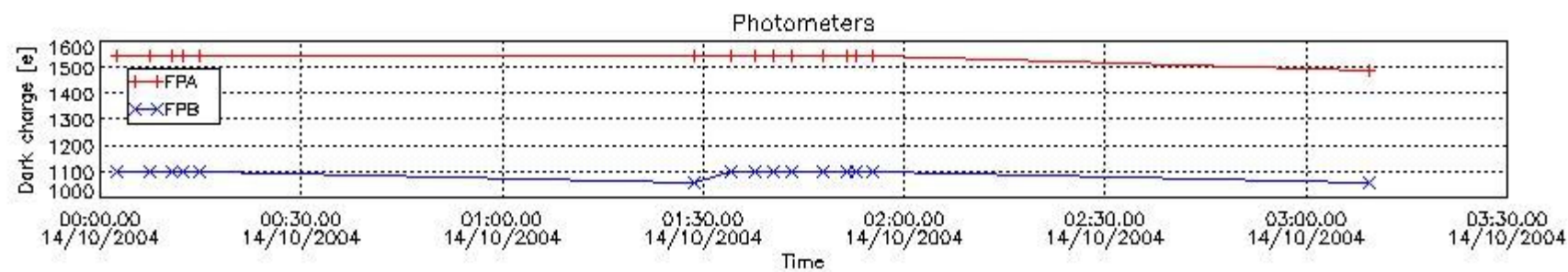
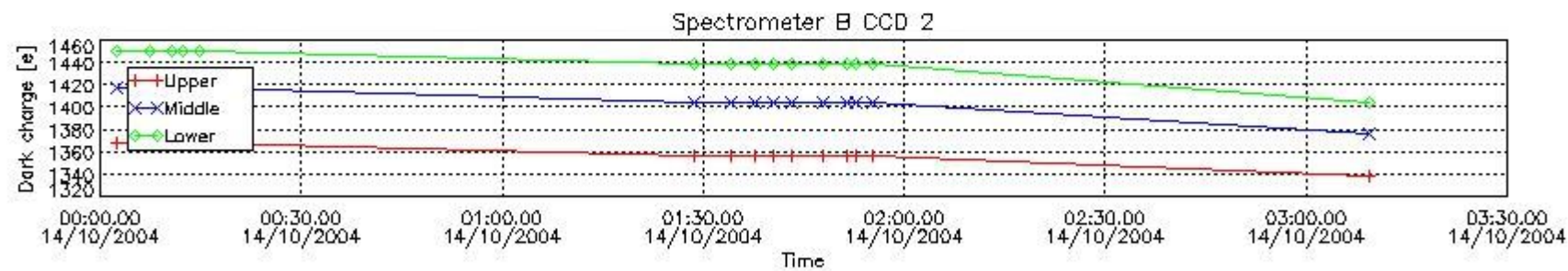
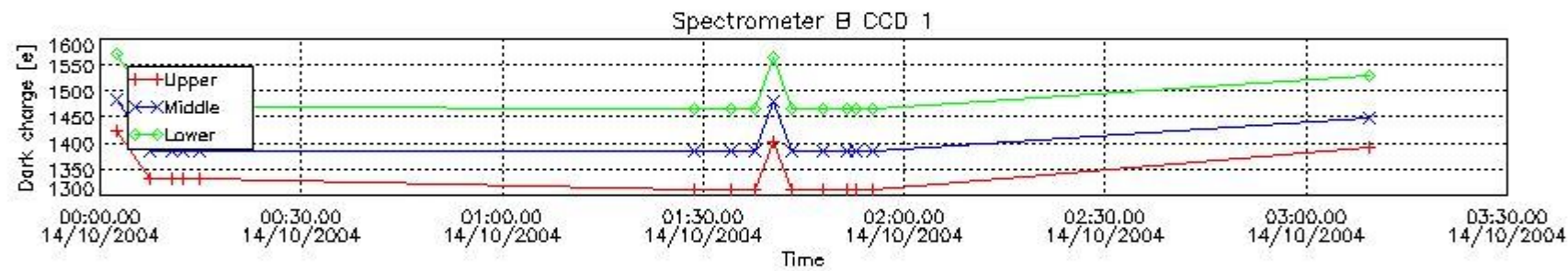
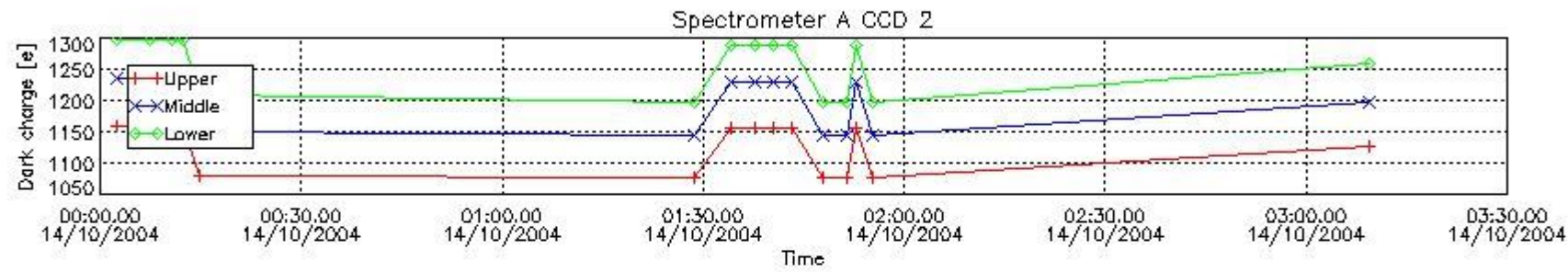
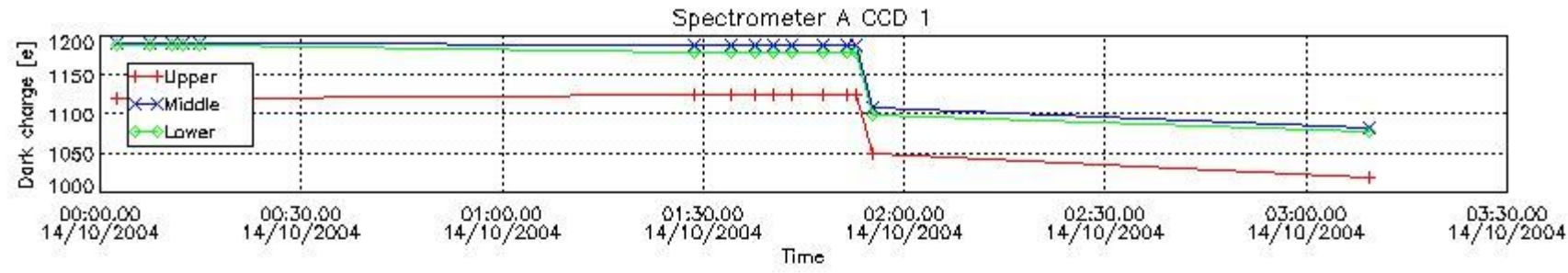
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





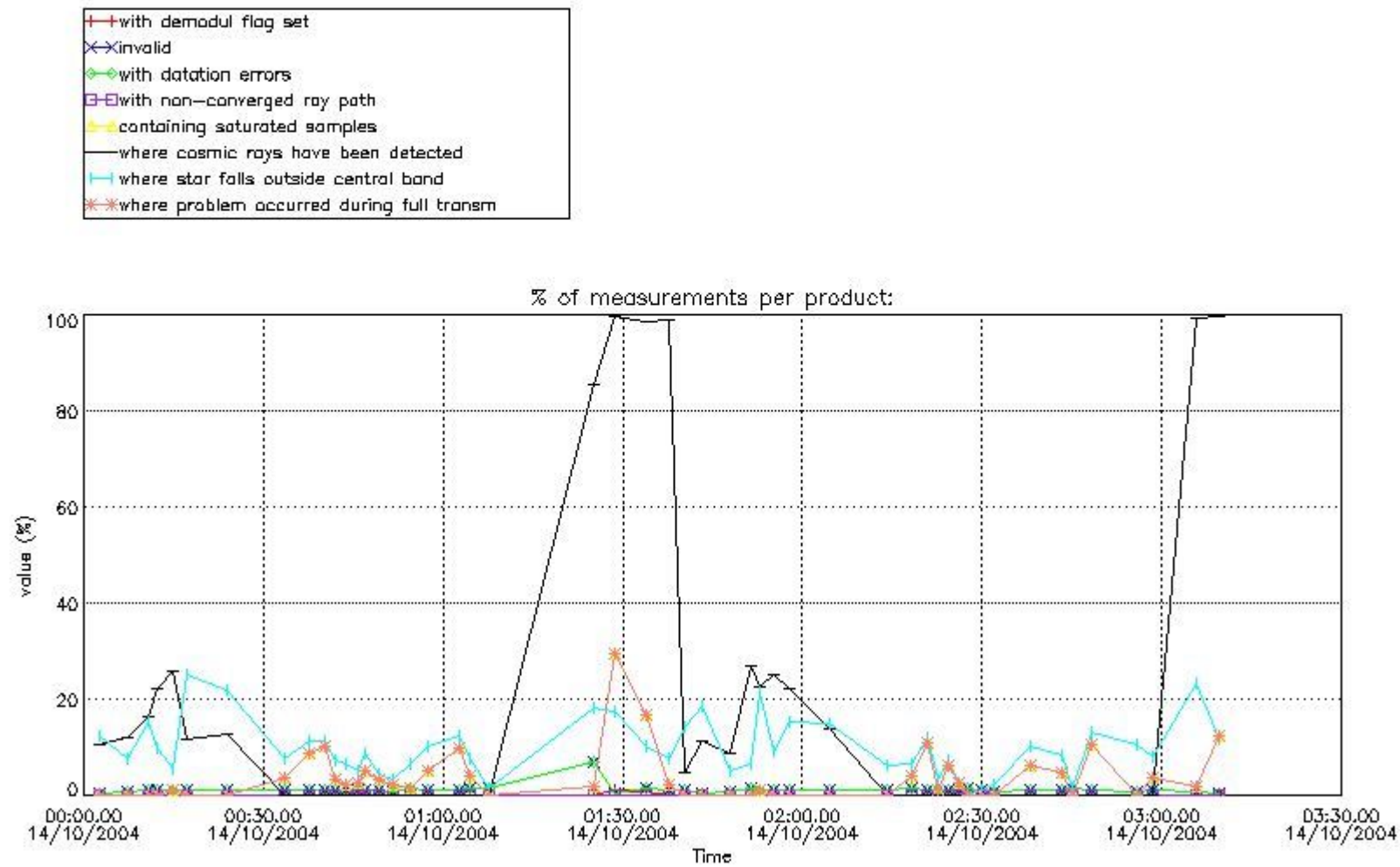
## 5. Demodulation flag and quality information monitoring

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:

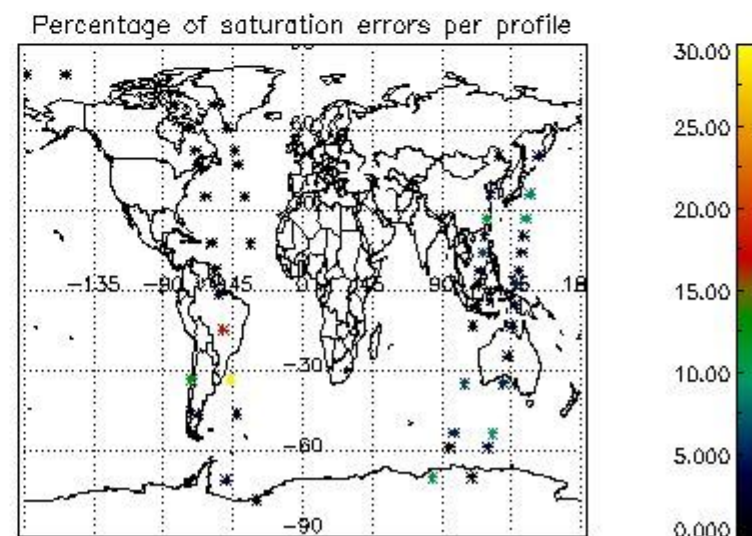
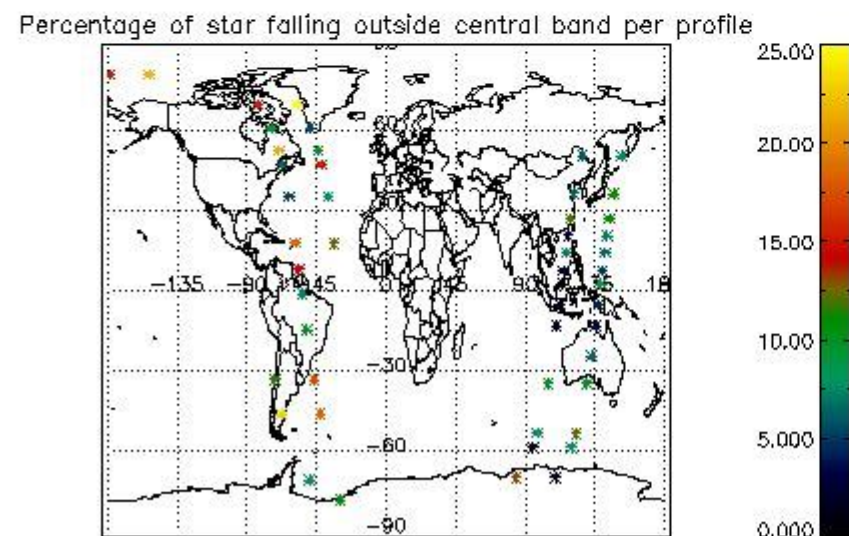
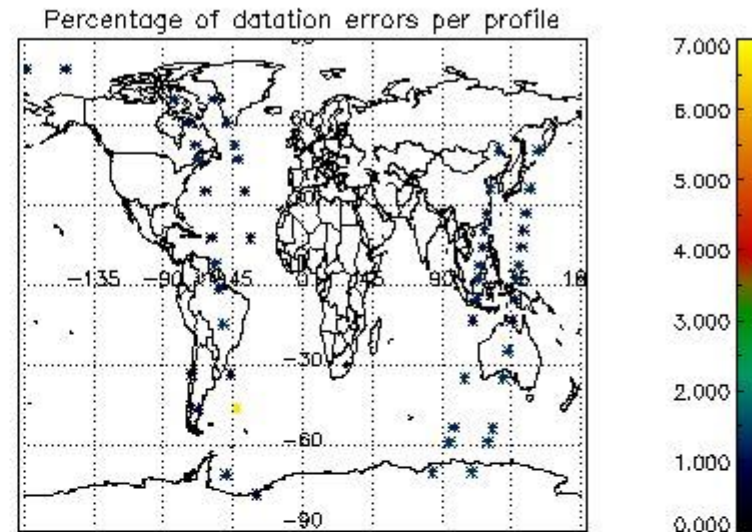
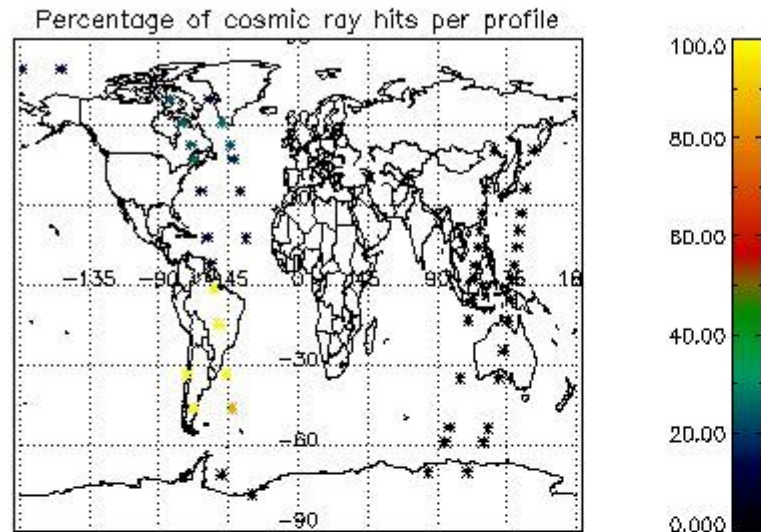
At least one measurement with demodulation flag set:	16.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





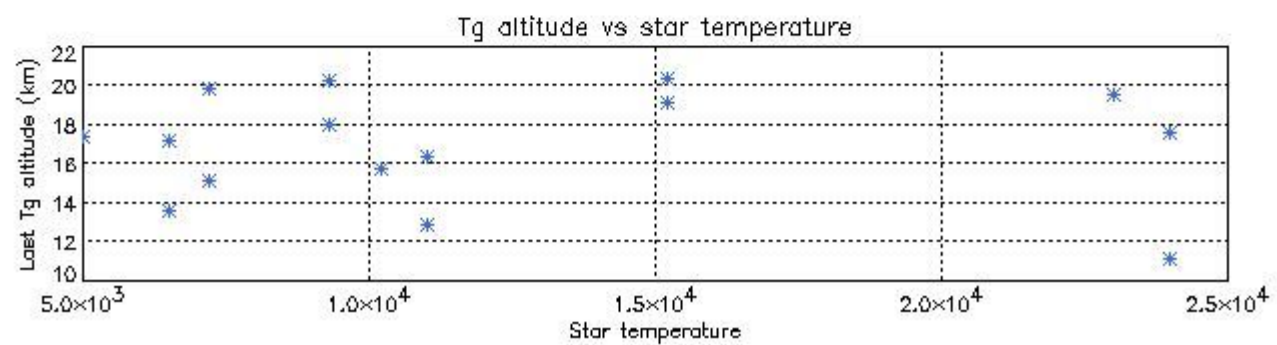
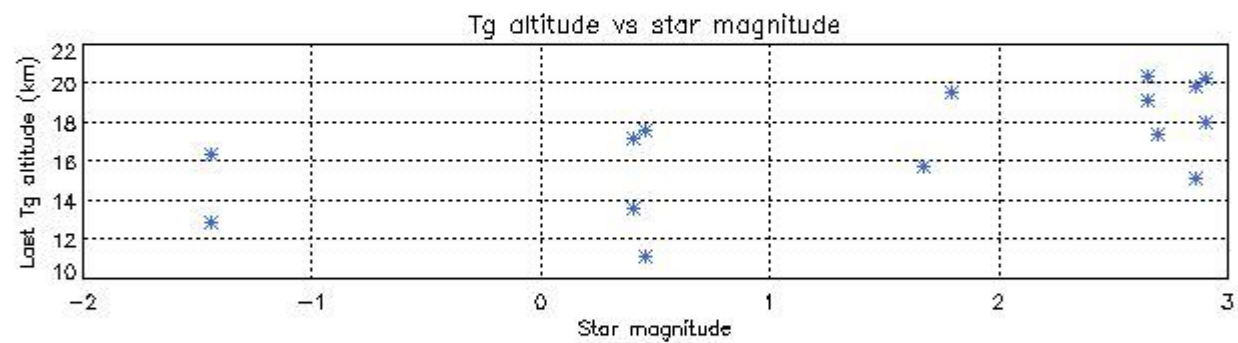
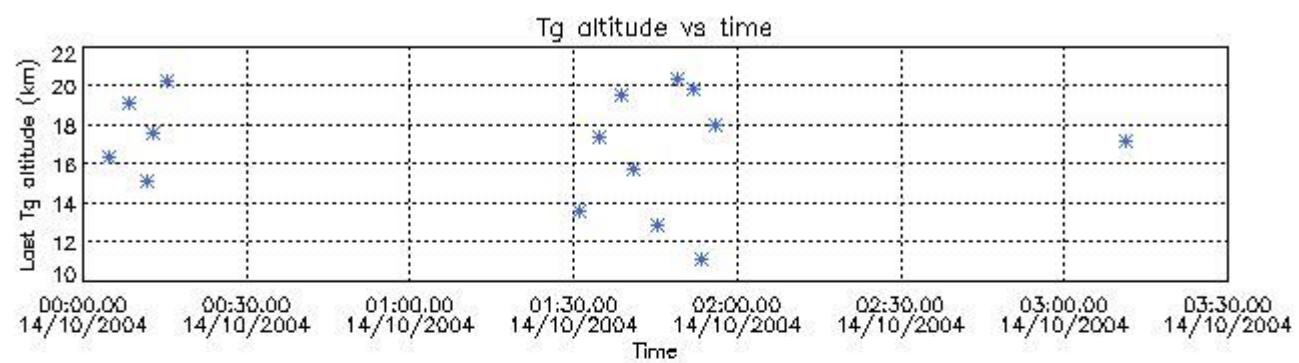
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.955	20.275	12.388
St. deviation:	2.8260	4.1121	3.5878
Maximum:	20.396	27.484	17.519
Minimum:	11.102	10.012	8.4483
Number of data:	15.000	30.000	5.0000

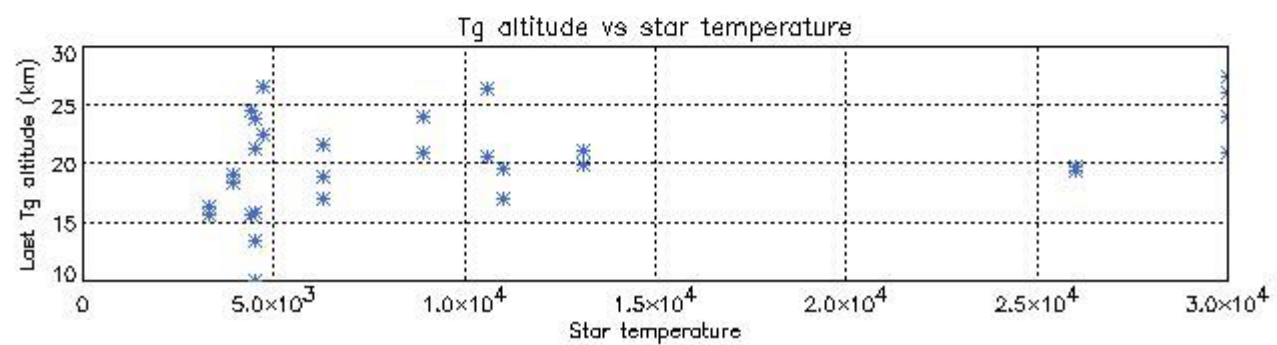
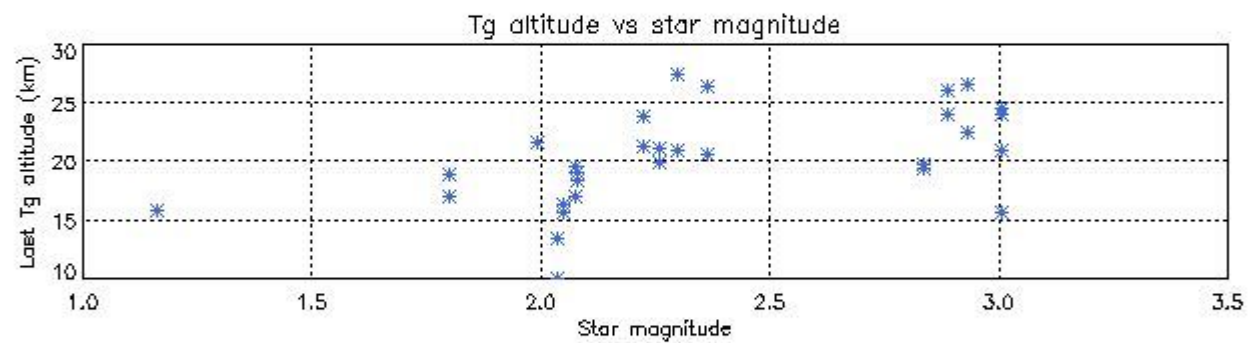
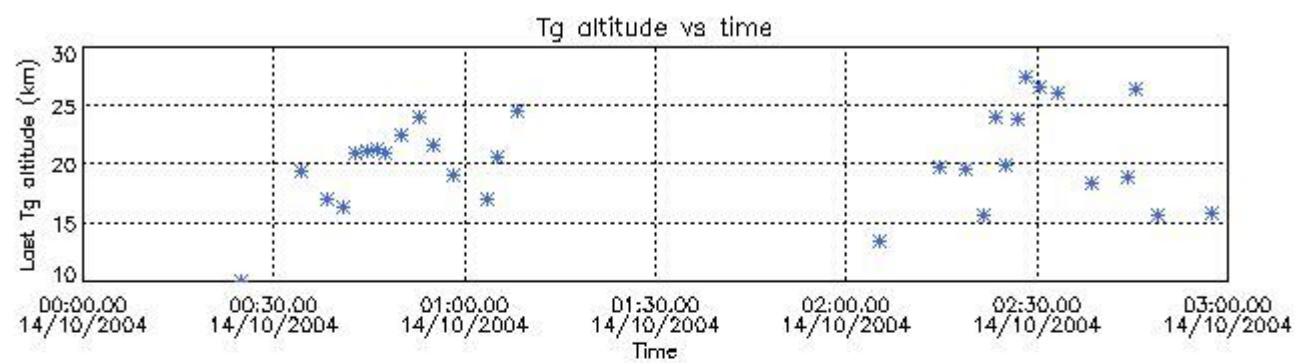
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

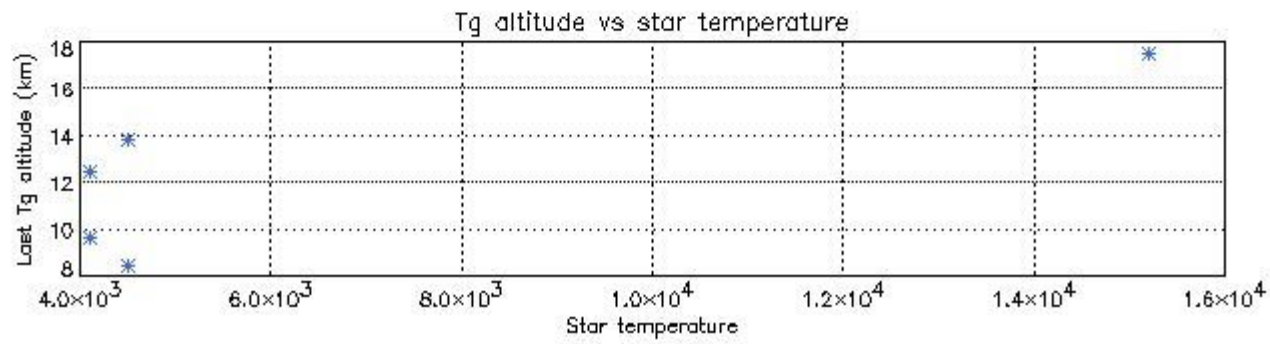
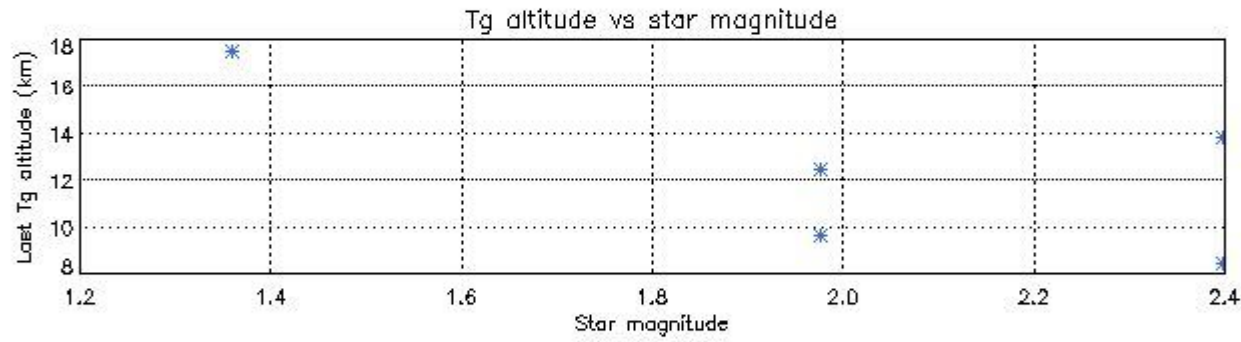
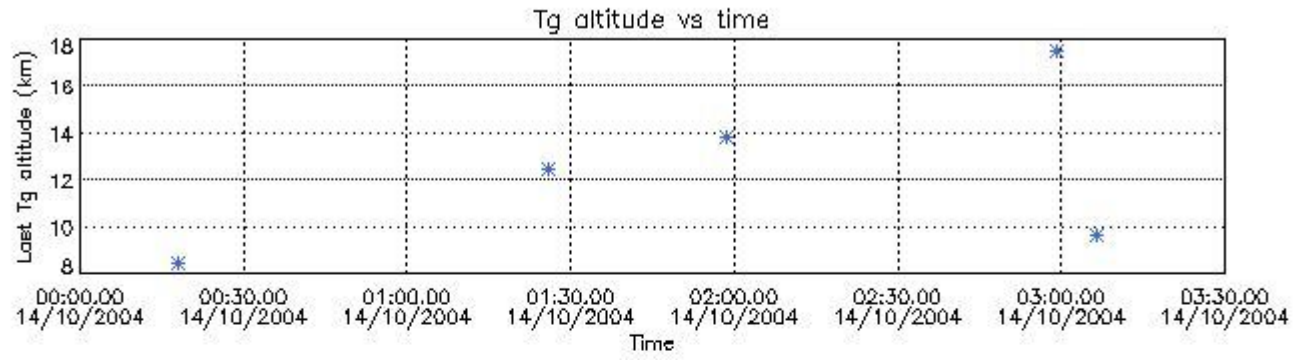
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



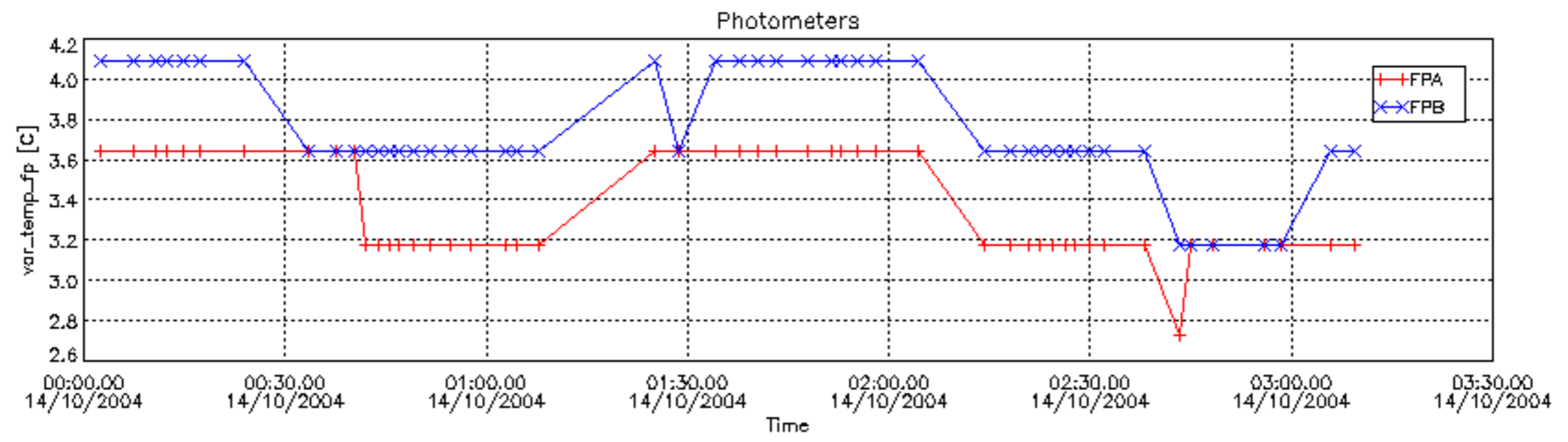
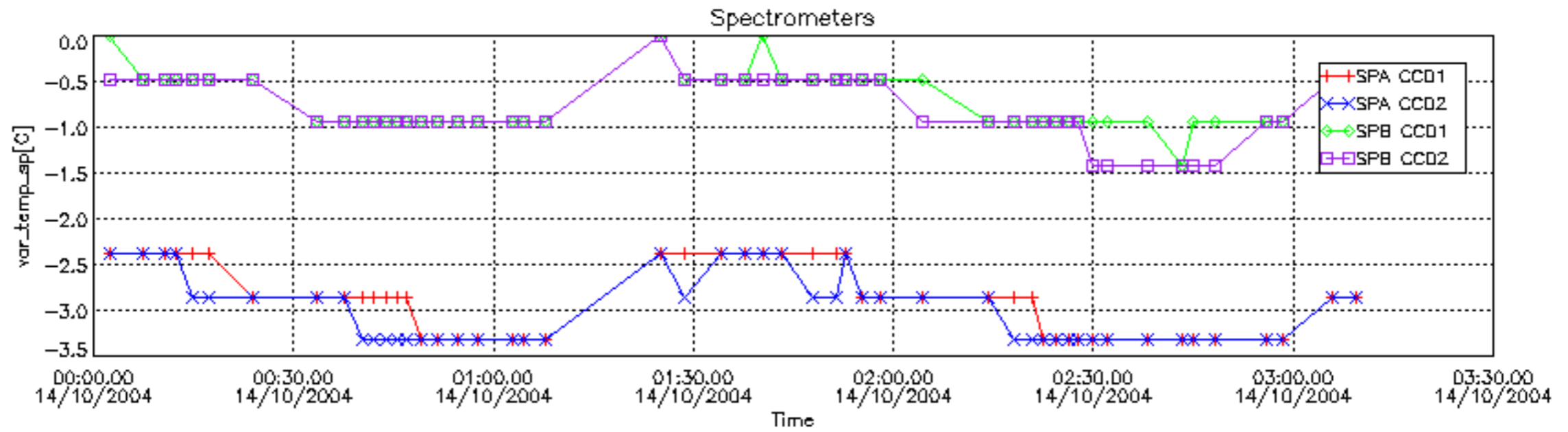
Tangent altitude at which the star is lost

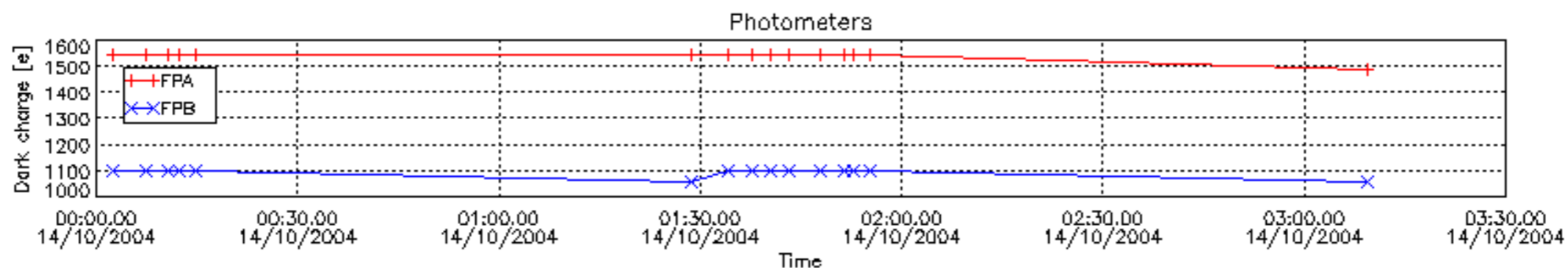
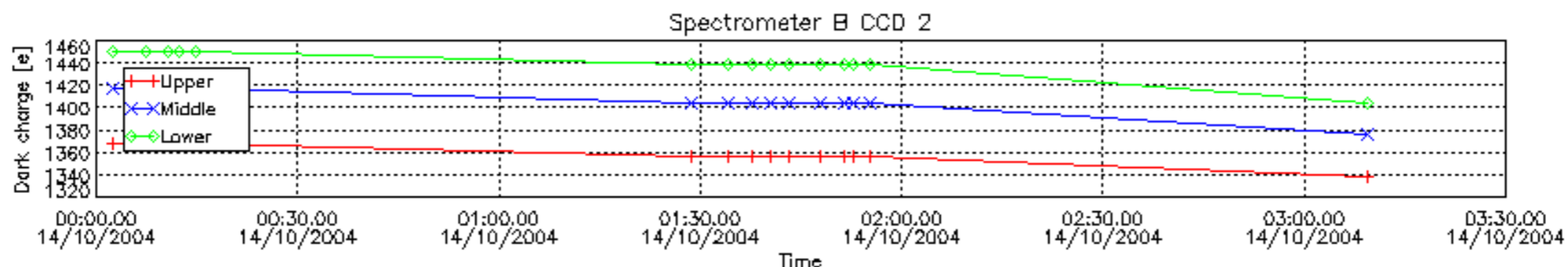
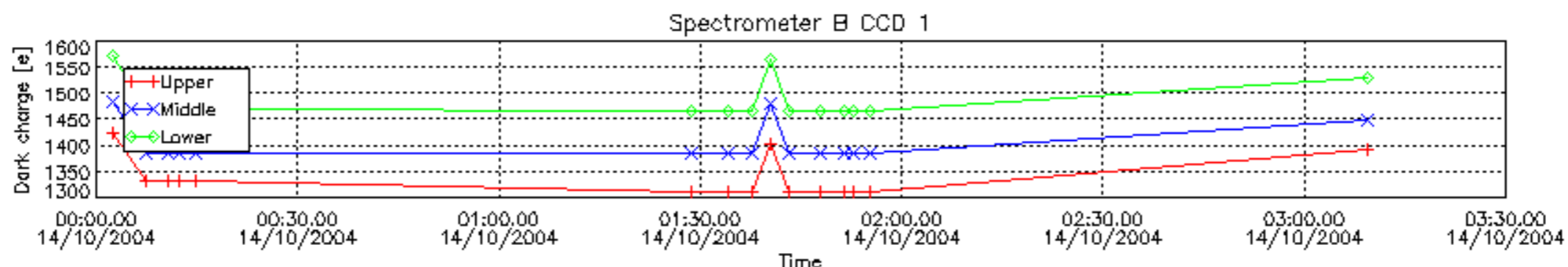
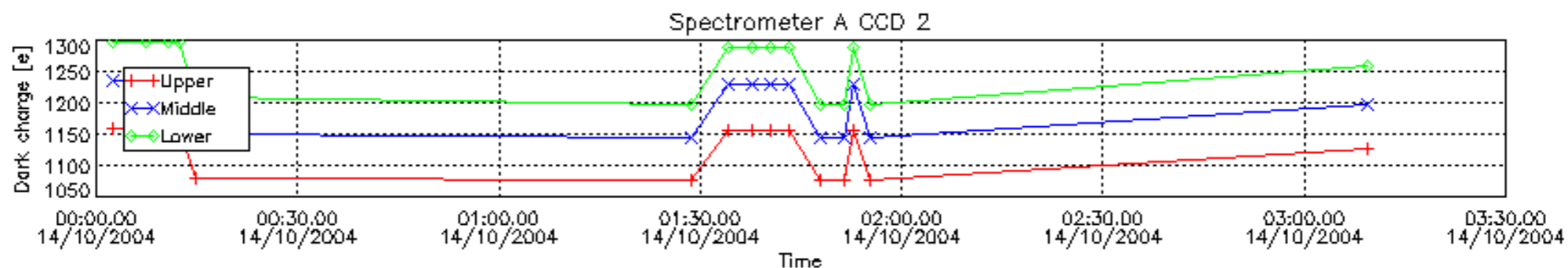
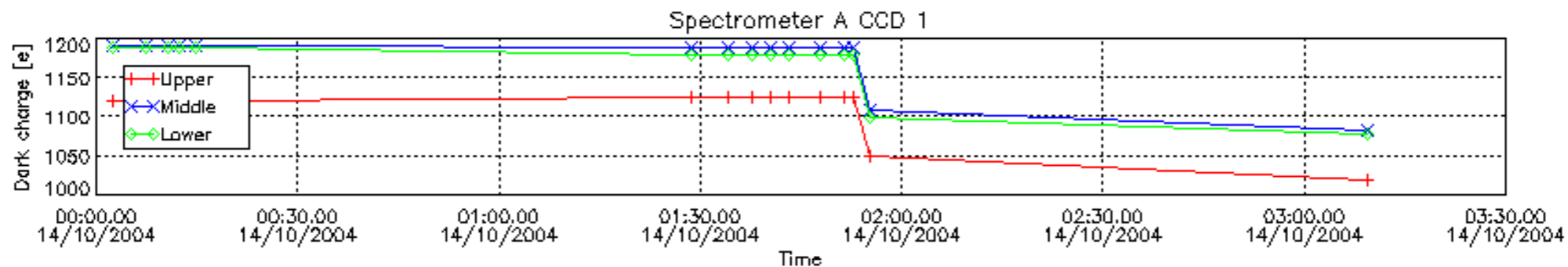


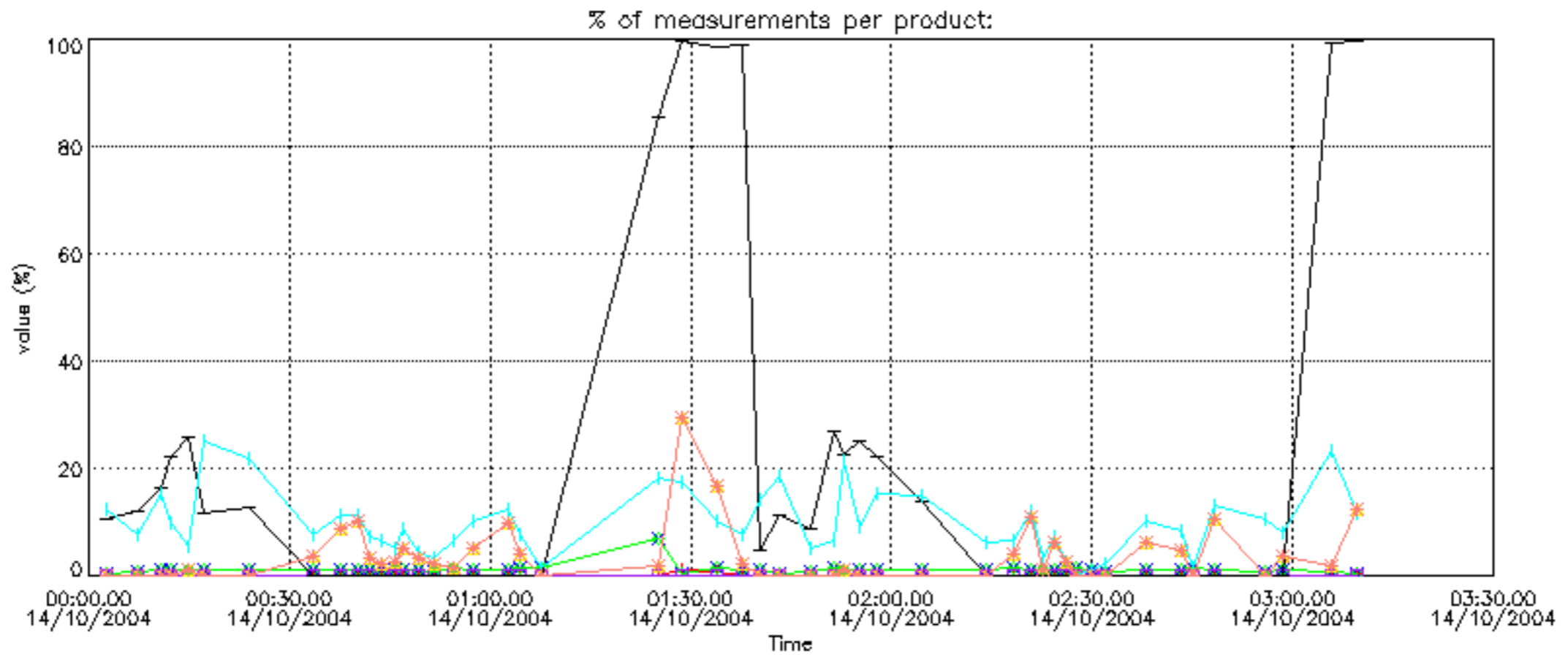
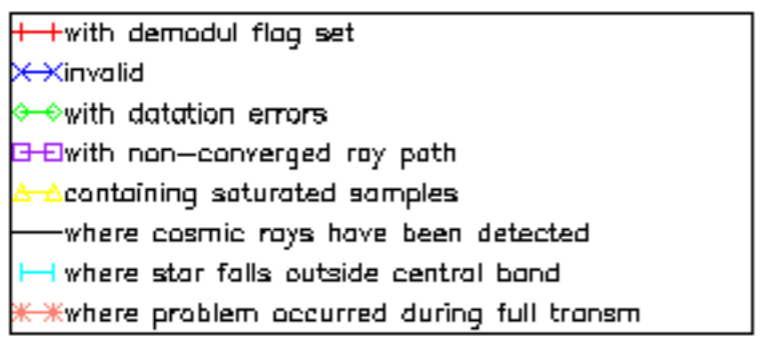
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.0	1448.9	1461.5	1447.4
St. deviation:	5.4121	6.5117	7.4181	8.2603
Maximum:	1509.0	1579.0	1531.0	1503.0
Minimum:	1403.0	1424.0	1450.0	1428.0
Number of data:	26950.	26950.	36700.	36700.

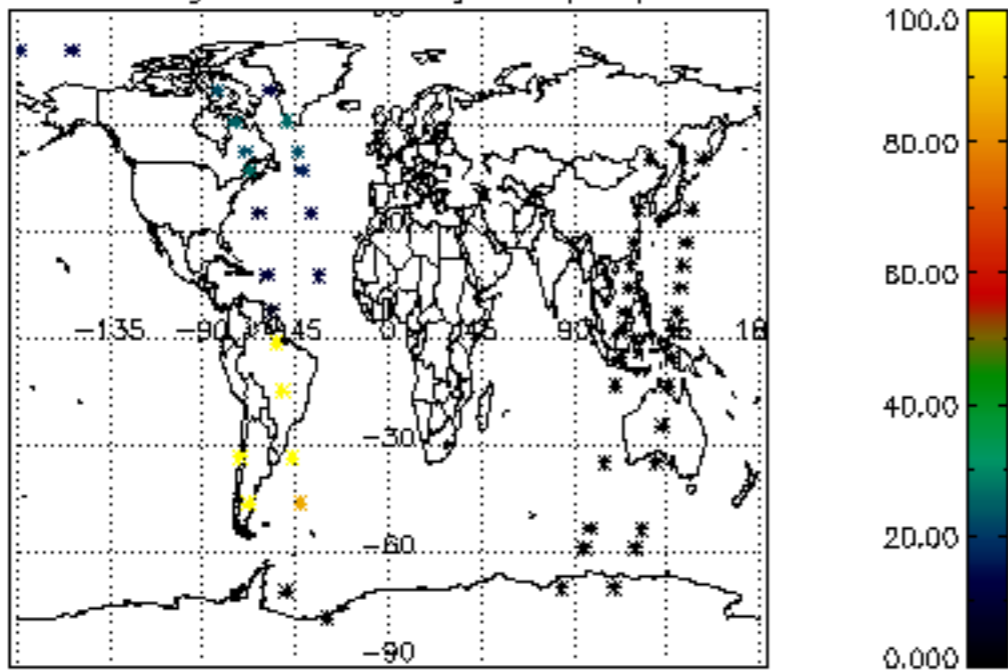




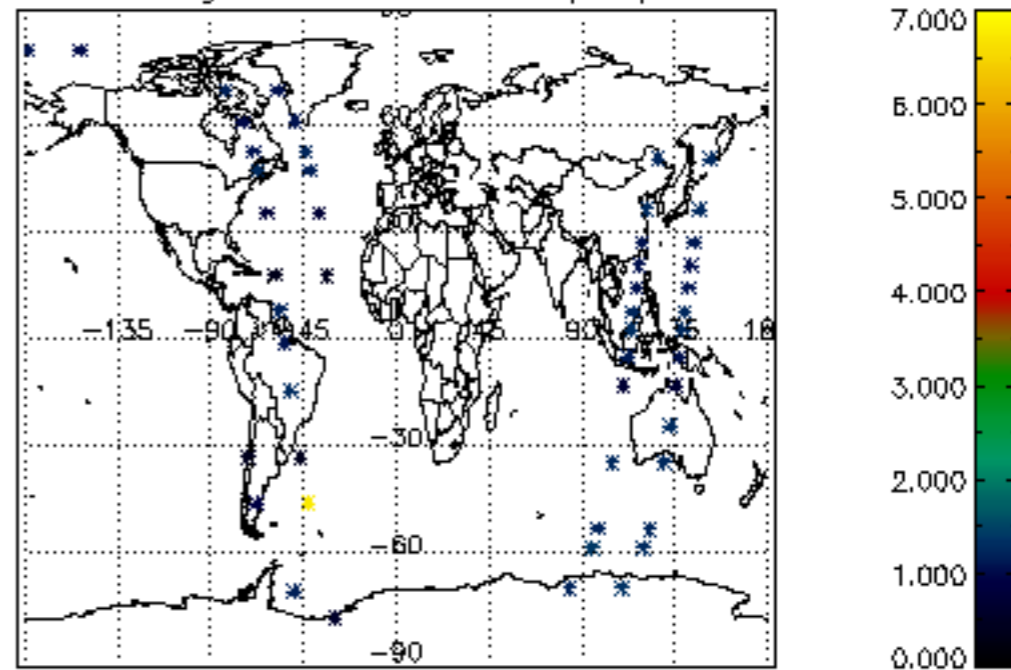




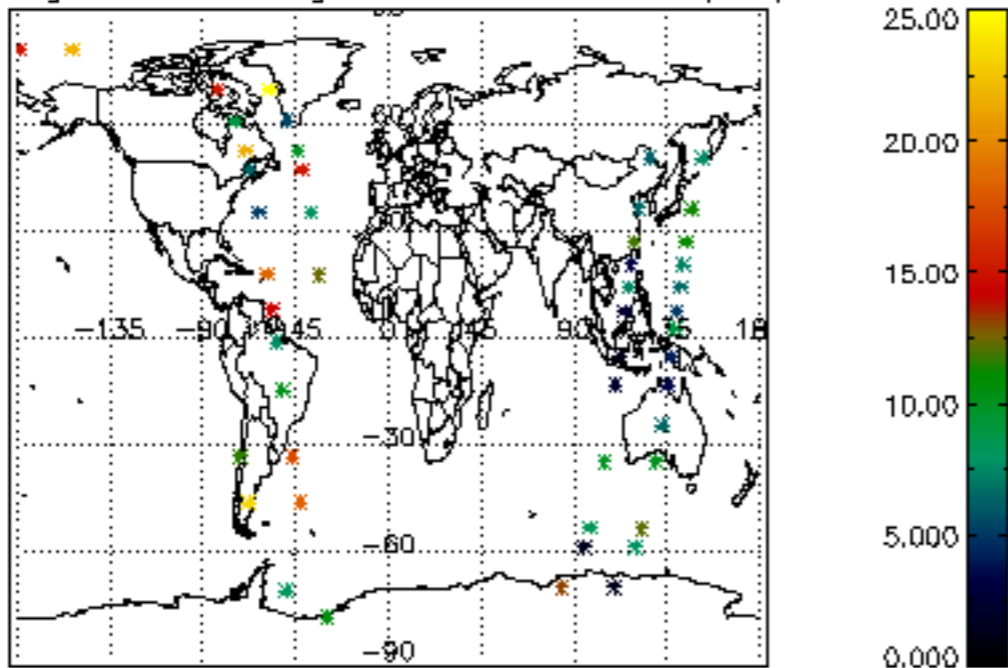
Percentage of cosmic ray hits per profile



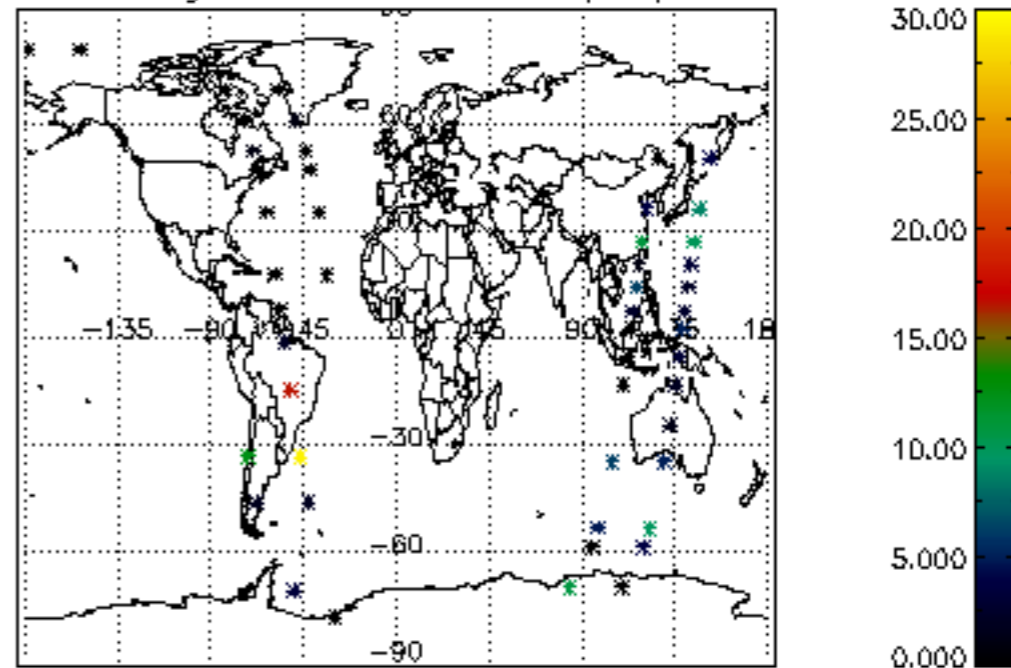
Percentage of datation errors per profile



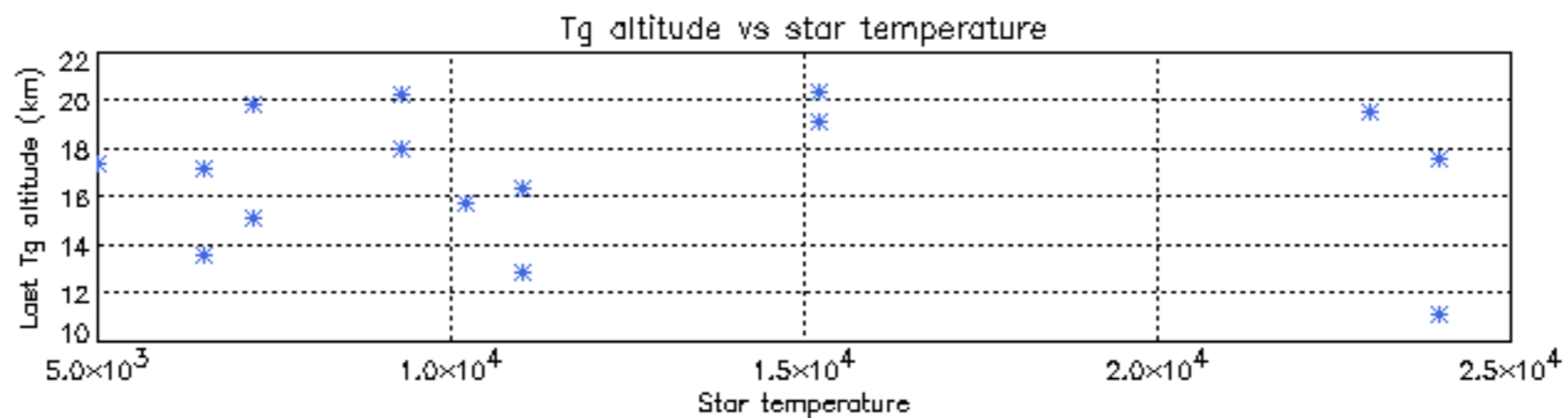
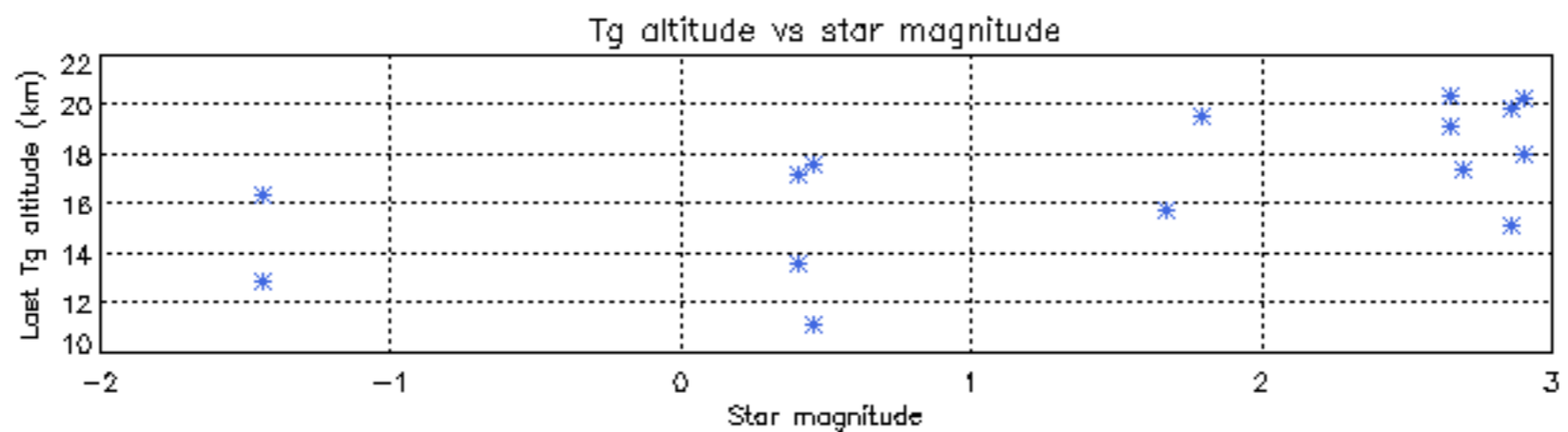
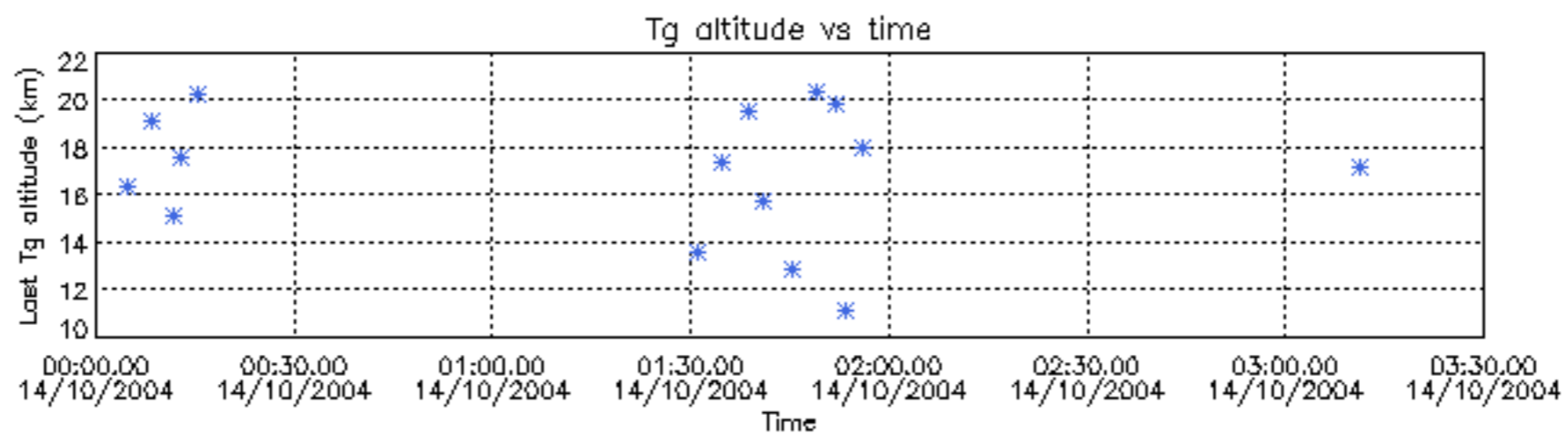
Percentage of star falling outside central band per profile



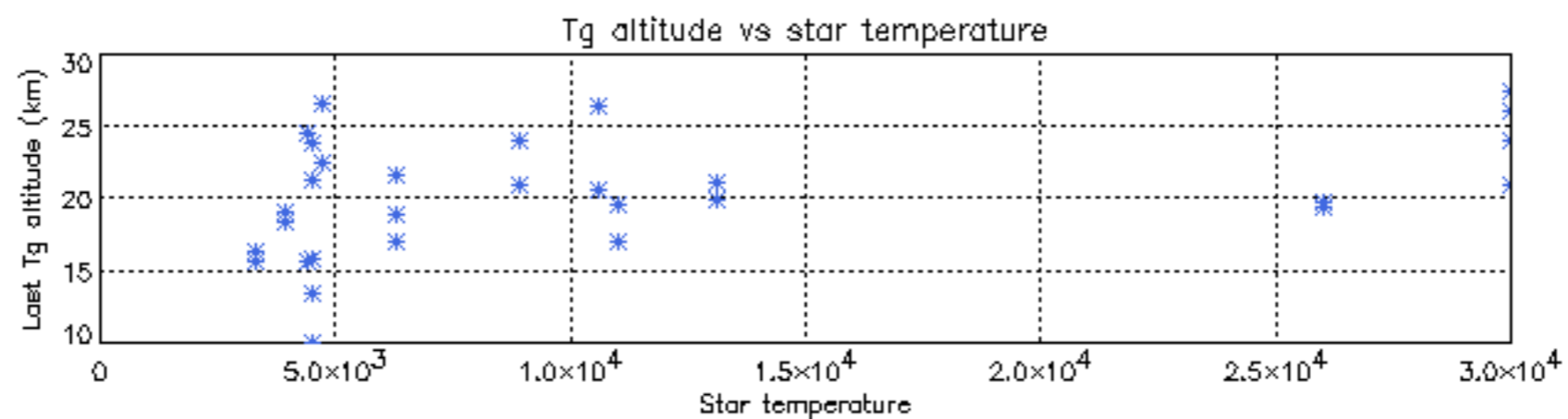
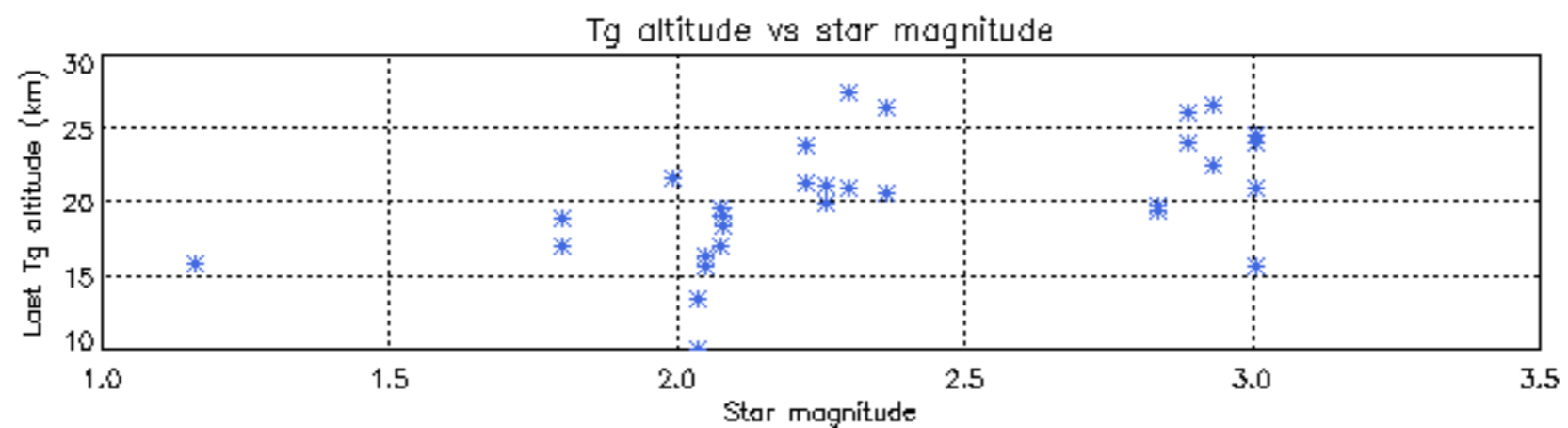
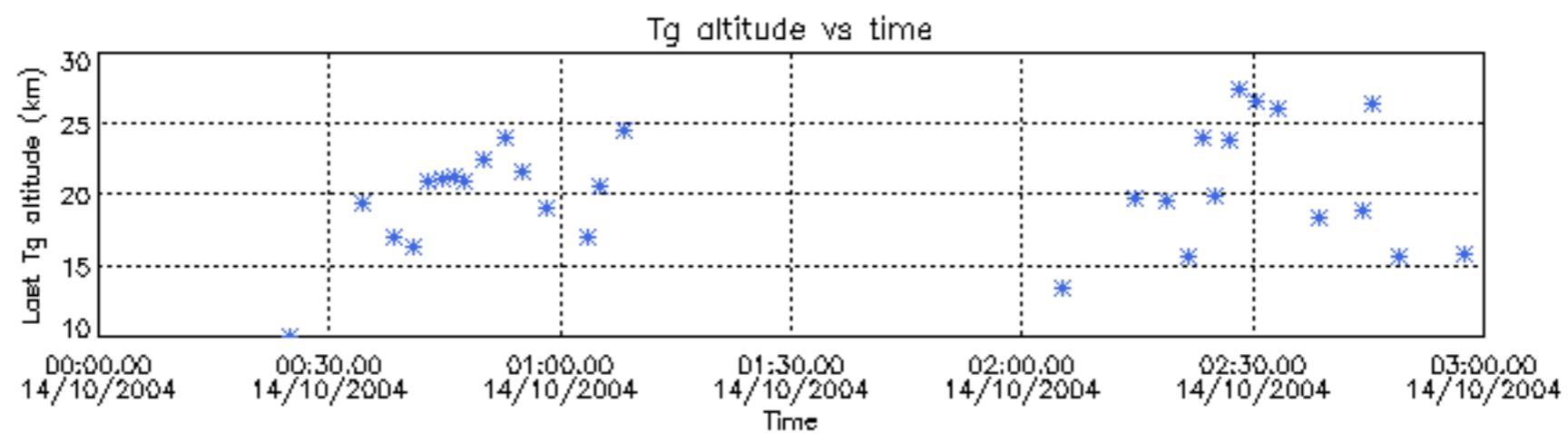
Percentage of saturation errors per profile



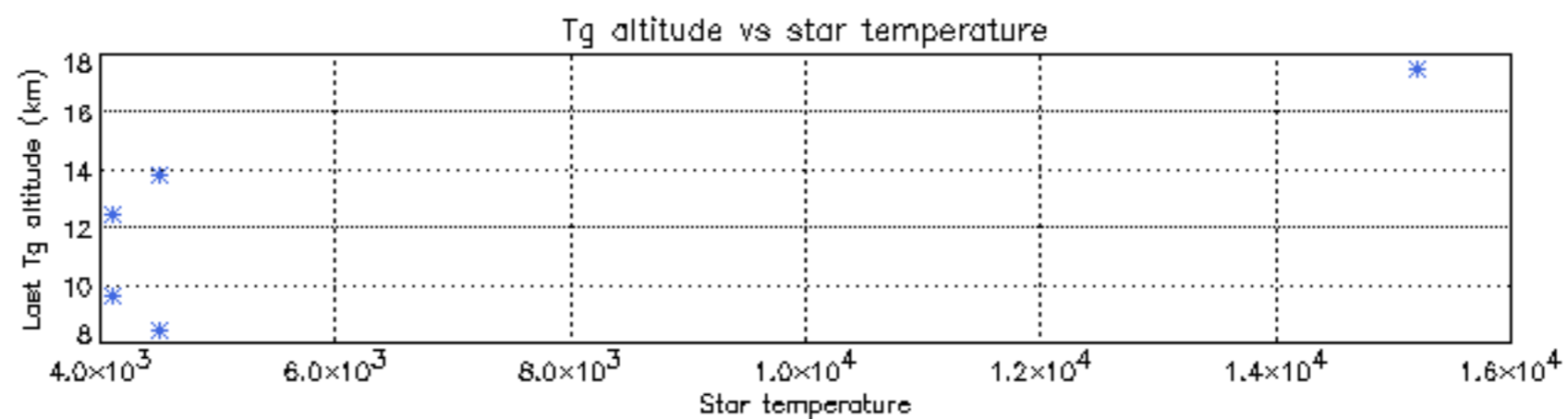
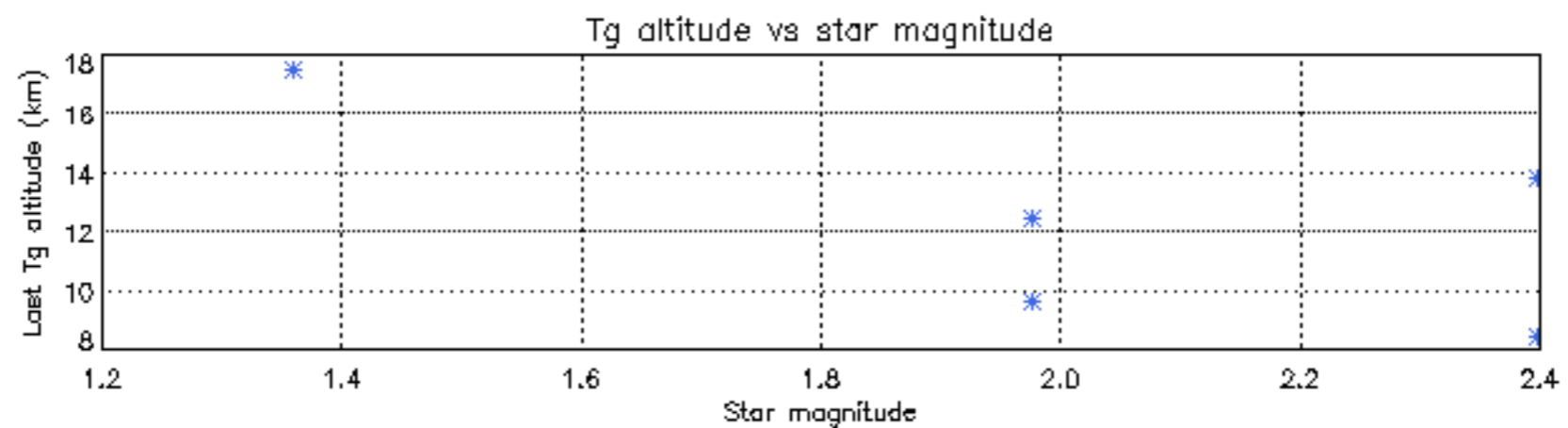
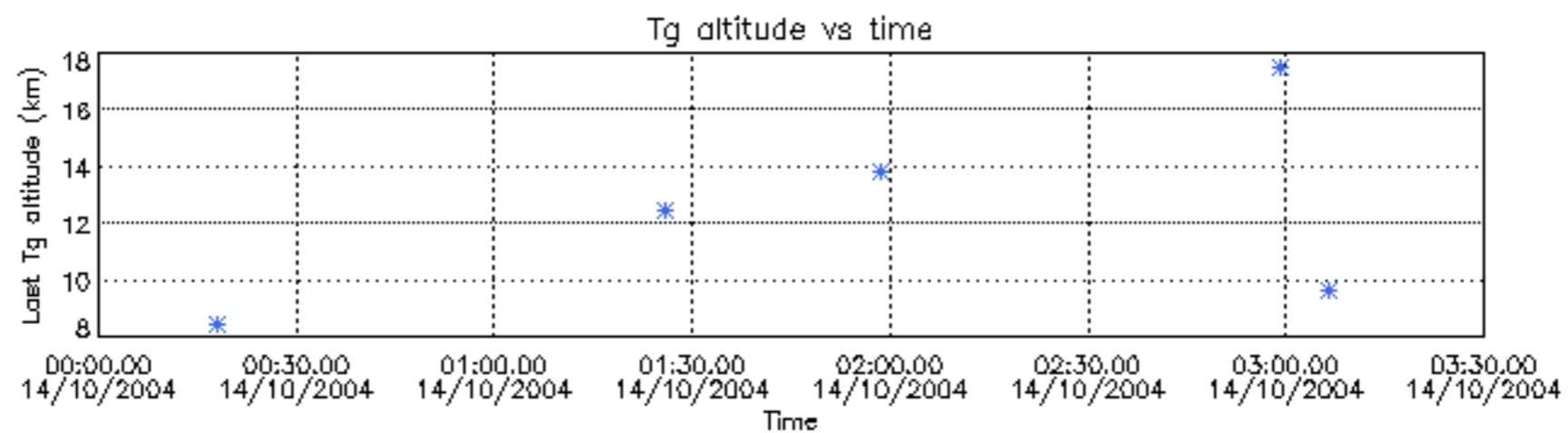
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 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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 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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2;	-277.1;	04-OCT-2004	00:07:16;	Dark	;	51.5;	65;	Lam Vel	;	2.20;	4400;occ;	103;	0;	13568
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4;	-5.9;	04-OCT-2004	00:11:48;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13568
5;	204.6;	04-OCT-2004	00:15:18;	Dark	;	60.0;	2;	Alp Car	;	-0.74;	7000;occ;	120;	0;	13569
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7;	607.8;	04-OCT-2004	00:22:01;	Dark	;	39.0;	135;	Bet Hyi	;	2.82;	5800;occ;	78;	0;	13569
8;	747.6;	04-OCT-2004	00:24:21;	Dark	;	41.0;	143;	Alp Hyi	;	2.86;	7200;occ;	82;	0;	13569
9;	834.6;	04-OCT-2004	00:25:48;	Dark	;	48.0;	9;	Alp Eri	;	0.45;	24000;occ;	96;	0;	13569
10;	945.5;	04-OCT-2004	00:27:39;	Dark	;	52.5;	157;	The1Eri	;	2.91;	9300;occ;	105;	0;	13569
11;	1152.1;	04-OCT-2004	00:31:06;	Dark	;	44.0;	84;	Alp Phe	;	2.40;	4500;occ;	88;	0;	13569
12;	1427.1;	04-OCT-2004	00:35:41;	Dark	;	43.0;	18;	24Alp PsA	;	1.17;	9700;occ;	86;	0;	13569
13;	1559.4;	04-OCT-2004	00:37:53;	Dark	;	53.5;	52;	16Bet Cet	;	2.04;	4500;occ;	107;	0;	13569
14;	1783.5;	04-OCT-2004	00:41:37;	Bright;	177.0;	165;	34Gam Eri	;	2.95;	3200;occ;	354;	0;	13569	
15;	2168.4;	04-OCT-2004	00:48:02;	Bright;	38.5;	90;	54Alp Peg	;	2.49;	11000;occ;	77;	0;	13569	
16;	2384.7;	04-OCT-2004	00:51:38;	Bright;	39.5;	93;	53Bet Peg	;	2.52;	3100;occ;	79;	0;	13569	
17;	2627.5;	04-OCT-2004	00:55:41;	Bright;	50.5;	53;	43Bet And	;	2.05;	3300;occ;	101;	0;	13569	
18;	2803.6;	04-OCT-2004	00:58:37;	Bright;	57.0;	173;	4Bet Tri	;	3.00;	8900;occ;	114;	0;	13569	
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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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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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13; 357.3; 03-OCT-2004 07:31:51; Dark ; 66.0; 108; Alp Col ; 2.65; 15200;occ; 132; 0;13559
14; 606.7; 03-OCT-2004 07:36:01; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;13559
15; 744.3; 03-OCT-2004 07:38:18; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13559
16; 832.2; 03-OCT-2004 07:39:46; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;13559
17; 938.8; 03-OCT-2004 07:41:33; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13559
18; 1145.5; 03-OCT-2004 07:45:00; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;13559
19; 1425.6; 03-OCT-2004 07:49:40; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;13559
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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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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
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19; -419.0; 03-OCT-2004 08:59:31; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;13559
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25; 606.8; 03-OCT-2004 09:16:37; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;13560
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27; 832.4; 03-OCT-2004 09:20:22; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 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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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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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	
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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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12;	-2125.6;	05-OCT-2004	09:08:27;	Bright;	37.0;	36;	50Alp UMA	;	1.80;	6300;occ;	74;	0;	13588	
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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
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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
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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
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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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14; 834.4; 24-OCT-2004 04:58:54; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13858
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17; 1211.7; 24-OCT-2004 05:05:11; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;13858

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 23; 2868.8; 24-OCT-2004 05:32:48; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13858  
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 27; 4672.0; 25-OCT-2004 00:29:27; Bright; 51.5; 166; 17Eps Leo ; 2.98; 6000;occ; 103; 0;13869  
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