

# GOMOS Daily Report 06-JAN-2004

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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	08JAN2004 07:33:26
Data source version	<Any version>
Start time of products	06-JAN-2004 (06JAN2004 00:00:00)
Stop time of products	07-JAN-2004 (07JAN2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

## 2. Summary of products arrived in PCF

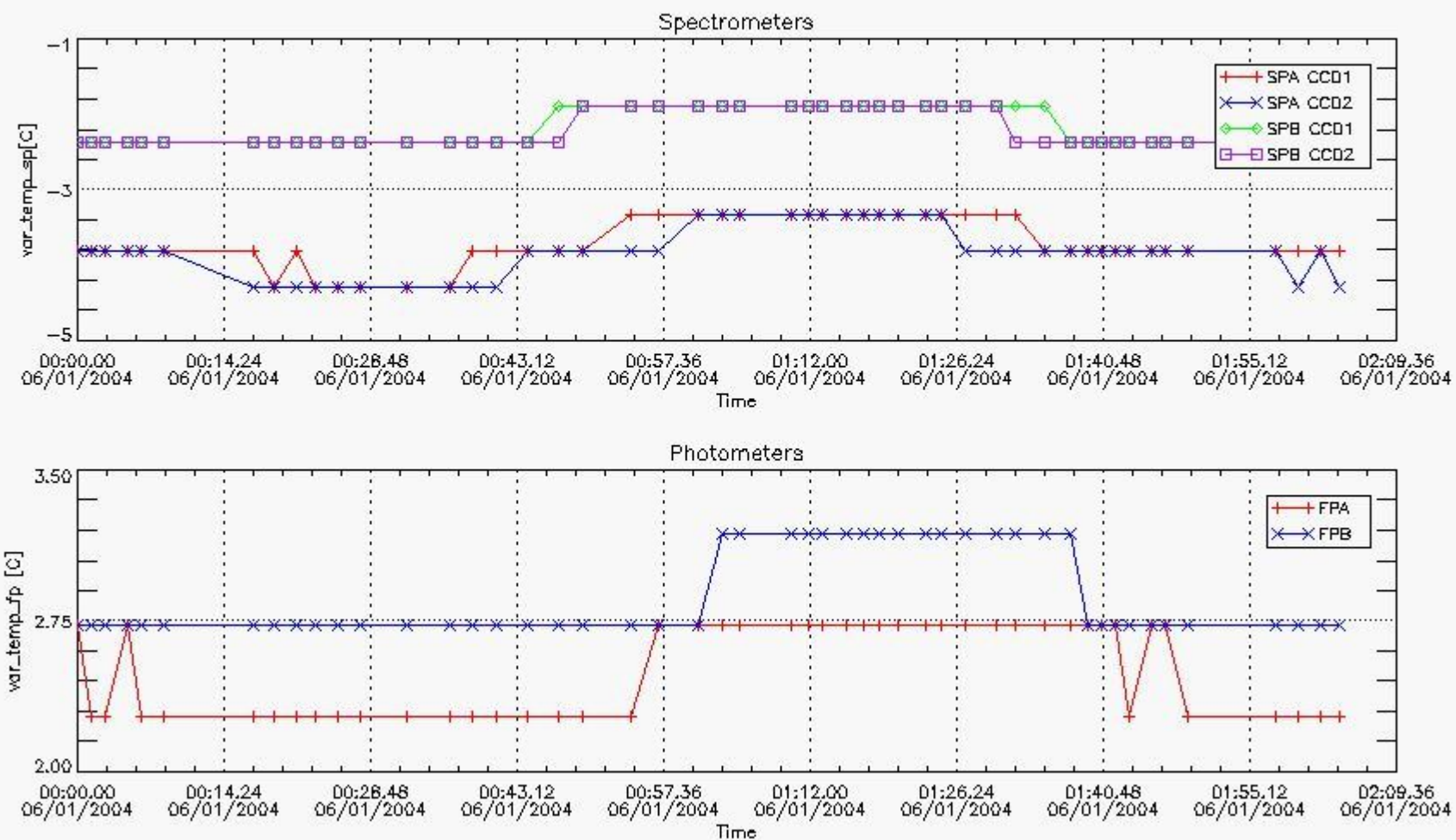
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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
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GOM_TRA_1PNPDE20040106_000002_000000402023_00102_09675_0008.N1	06-JAN-2004 00:00:02	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	9675	No
GOM_TRA_1PNPDE20040106_000124_000000392023_00102_09675_0009.N1	06-JAN-2004 00:01:24	Bright	38.500	114	3lot Aur	2.6930	4600.0	77	9675	No
GOM_TRA_1PNPDE20040106_000241_000000382023_00102_09675_0010.N1	06-JAN-2004 00:02:41	Bright	38.000	107	37The Aur	2.6490	11000.	76	9675	No
GOM_TRA_1PNPDE20040106_000457_000000452023_00102_09675_0011.N1	06-JAN-2004 00:04:57	Bright	45.000	6	13Alp Aur	0.080000	3400.0	90	9675	No
GOM_TRA_1PNPDE20040106_000615_000000372023_00102_09675_0012.N1	06-JAN-2004 00:06:15	Bright	36.500	175	39Del Per	3.0100	19400.	73	9675	No
GOM_TRA_1PNPDE20040106_000827_000000382023_00102_09675_0013.N1	06-JAN-2004 00:08:27	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	9675	No
GOM_TRA_1PNPDE20040106_001711_000000352023_00102_09675_0014.N1	06-JAN-2004 00:17:11	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	9675	No
GOM_TRA_1PNPDE20040106_001922_000000462023_00102_09675_0015.N1	06-JAN-2004 00:19:22	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	9675	No
GOM_TRA_1PNPDE20040106_002131_000000402023_00102_09675_0016.N1	06-JAN-2004 00:21:31	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	9675	No
GOM_TRA_1PNPDE20040106_002322_000000562023_00102_09675_0017.N1	06-JAN-2004 00:23:22	Bright	55.500	87	64Gam UMa	2.4330	11000.	111	9675	No
GOM_TRA_1PNPDE20040106_002532_000000362023_00102_09675_0018.N1	06-JAN-2004 00:25:32	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	9675	No
GOM_TRA_1PNPDE20040106_002746_000000372023_00102_09675_0019.N1	06-JAN-2004 00:27:46	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	9675	No
GOM_TRA_1PNPDE20040106_003218_000000692023_00102_09675_0020.N1	06-JAN-2004 00:32:18	Bright	68.500	152	12Alp2CVn	2.8900	11000.	137	9675	No
GOM_TRA_1PNPDE20040106_003637_000000452023_00102_09675_0021.N1	06-JAN-2004 00:36:37	Bright	44.500	83		2.3780	11000.	89	9675	No
GOM_TRA_1PNPDE20040106_003844_000000382023_00102_09675_0022.N1	06-JAN-2004 00:38:44	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	9675	No
GOM_TRA_1PNPDE20040106_004114_000000632023_00102_09675_0023.N1	06-JAN-2004 00:41:14	Bright	62.500	111	8Eta Boo	2.6800	6000.0	125	9675	No
GOM_TRA_1PNPDE20040106_004415_000000372023_00102_09675_0024.N1	06-JAN-2004 00:44:15	Bright	37.000	120	1Del Oph	2.7340	3200.0	74	9675	No
GOM_TRA_1PNPDE20040106_004713_000000432023_00102_09675_0025.N1	06-JAN-2004 00:47:13	Bright	42.500	104	27Bet Lib	2.6140	13100.	85	9675	No
GOM_TRA_1PNPDE20040106_004938_000000472023_00102_09675_0026.N1	06-JAN-2004 00:49:38	Dark	47.000	80	7Del Sco	2.3160	30000.	94	9675	No
GOM_TRA_1PNPDE20040106_005427_000000782023_00102_09675_0027.N1	06-JAN-2004 00:54:27	Dark	78.000	15	67Alp Vir	0.97600	28000.	156	9675	No
GOM_TRA_1PNPDE20040106_005703_000000522023_00102_09675_0028.N1	06-JAN-2004 00:57:03	Dark	51.500	54	5The Cen	2.0550	4500.0	103	9675	No
GOM_TRA_1PNPDE20040106_010102_000000532023_00103_09676_0029.N1	06-JAN-2004 01:01:02	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	9676	No
GOM_TRA_1PNPDE20040106_010324_000000462023_00103_09676_0030.N1	06-JAN-2004 01:03:24	Dark	45.500	64	Gam Cen	2.2000	10600.	91	9676	No
GOM_TRA_1PNPDE20040106_010506_000000522023_00103_09676_0031.N1	06-JAN-2004 01:05:06	Dark	52.000	12	Alp1Cru	0.77500	30000.	104	9676	No
GOM_TRA_1PNPDE20040106_011011_000000432023_00103_09676_0032.N1	06-JAN-2004 01:10:11	Dark	42.500	29	Bet Car	1.6720	10200.	85	9676	No
GOM_TRA_1PNPDE20040106_011148_000000422023_00103_09676_0033.N1	06-JAN-2004 01:11:48	Dark	41.500	71	lot Car	2.2460	7700.0	83	9676	No
GOM_TRA_1PNPDE20040106_011315_000000552023_00103_09676_0034.N1	06-JAN-2004 01:13:15	Dark	55.000	41	Eps Car	1.8600	4100.0	110	9676	No
GOM_TRA_1PNPDE20040106_011534_000000552023_00103_09676_0035.N1	06-JAN-2004 01:15:34	Dark	54.500	65	Lam Vel	2.2040	4400.0	109	9676	No
GOM_TRA_1PNPDE20040106_011719_000000462023_00103_09676_0036.N1	06-JAN-2004 01:17:19	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	9676	No
GOM_TRA_1PNPDE20040106_011843_000000482023_00103_09676_0037.N1	06-JAN-2004 01:18:43	Dark	47.500	70	Zet Pup	2.2460	39000.	95	9676	No
GOM_TRA_1PNPDE20040106_012036_000000542023_00103_09676_0038.N1	06-JAN-2004 01:20:36	Dark	53.500	117	Pi Pup	2.7060	3800.0	107	9676	No
GOM_TRA_1PNPDE20040106_012321_000000502023_00103_09676_0000.N1	06-JAN-2004 01:23:21	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	9676	No
GOM_TRA_1PNPDE20040106_012449_000000492023_00103_09676_0001.N1	06-JAN-2004 01:24:49	Dark	48.500	179	24Omi2CMa	3.0320	24000.	97	9676	No
GOM_TRA_1PNPDE20040106_012711_000000572023_00103_09676_0002.N1	06-JAN-2004 01:27:11	Dark	57.000	1	9Alp CMa	-1.4400	11000.	114	9676	No
GOM_TRA_1PNPDE20040106_013022_000000522023_00103_09676_0003.N1	06-JAN-2004 01:30:22	Dark	51.500	7	19Bet Ori	0.10000	14000.	103	9676	No
GOM_TRA_1PNPDE20040106_013209_000000412023_00103_09676_0004.N1	06-JAN-2004 01:32:09	Dark	41.000	30	46Eps Ori	1.6940	30000.	82	9676	No
GOM_TRA_1PNPDE20040106_013504_000000752023_00103_09676_0005.N1	06-JAN-2004 01:35:04	Dark	75.000	8	10Alp CMi	0.40000	6500.0	150	9676	No
GOM_TRA_1PNPDE20040106_013733_000000522023_00103_09676_0006.N1	06-JAN-2004 01:37:33	Dark	51.500	44	24Gam Gem	1.9280	11000.	103	9676	No
GOM_TRA_1PNPDE20040106_013914_000000452023_00103_09676_0007.N1	06-JAN-2004 01:39:14	Bright	45.000	151	13Mu Gem	2.8900	3000.0	90	9676	No
GOM_TRA_1PNPDE20040106_014038_000000412023_00103_09676_0008.N1	06-JAN-2004 01:40:38	Bright	40.500	28	12Bet Tau	1.6500	15200.	81	9676	No
GOM_TRA_1PNPDE20040106_014157_000000422023_00103_09676_0009.N1	06-JAN-2004 01:41:57	Bright	42.000	114	3lot Aur	2.6930	4600.0	84	9676	No
GOM_TRA_1PNPDE20040106_014316_000000402023_00103_09676_0010.N1	06-JAN-2004 01:43:16	Bright	40.000	107	37The Aur	2.6490	11000.	80	9676	No
GOM_TRA_1PNPDE20040106_014532_000000452023_00103_09676_0011.N1	06-JAN-2004 01:45:32	Bright	44.500	6	13Alp Aur	0.080000	3400.0	89	9676	No
GOM_TRA_1PNPDE20040106_014651_000000362023_00103_09676_0012.N1	06-JAN-2004 01:46:51	Bright	36.000	175	39Del Per	3.0100	19400.	72	9676	No
GOM_TRA_1PNPDE20040106_014904_000000382023_00103_09676_0013.N1	06-JAN-2004 01:49:04	Bright	37.500	160	23Gam Per	2.9300	4700.0	75	9676	No
GOM_TRA_1PNPDE20040106_015746_000000382023_00103_09676_0014.N1	06-JAN-2004 01:57:46	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	9676	No
GOM_TRA_1PNPDE20040106_015957_000000502023_00103_09676_0015.N1	06-JAN-2004 01:59:57	Bright	49.500	36	50Alp UMa	1.8000	6300.0	99	9676	No
GOM_TRA_1PNPDE20040106_020207_000000412023_00103_09676_0016.N1	06-JAN-2004 02:02:07	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	9676	No
GOM_TRA_1PNPDE20040106_020358_000000542023_00103_09676_0017.N1	06-JAN-2004 02:03:58	Bright	53.500	87	64Gam UMa	2.4330	11000.	107	9676	No

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



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

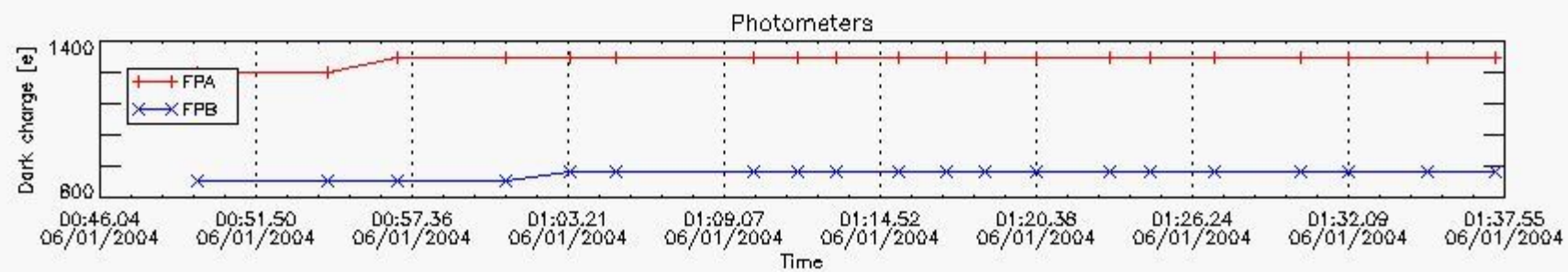
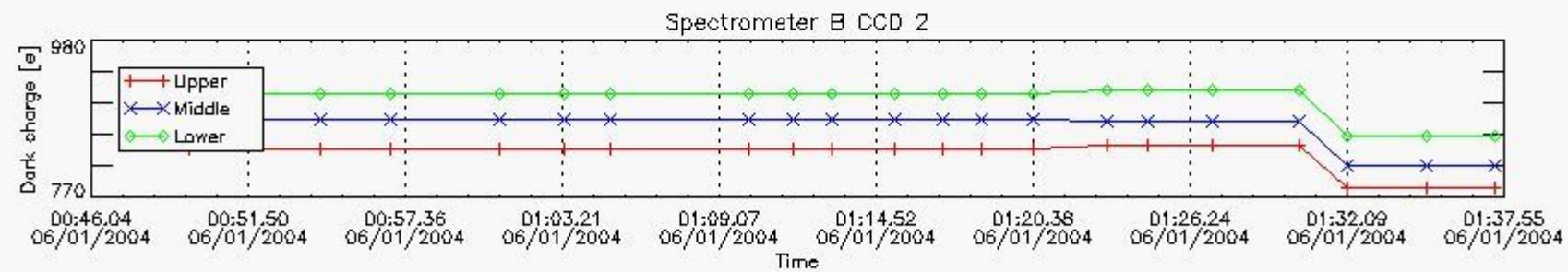
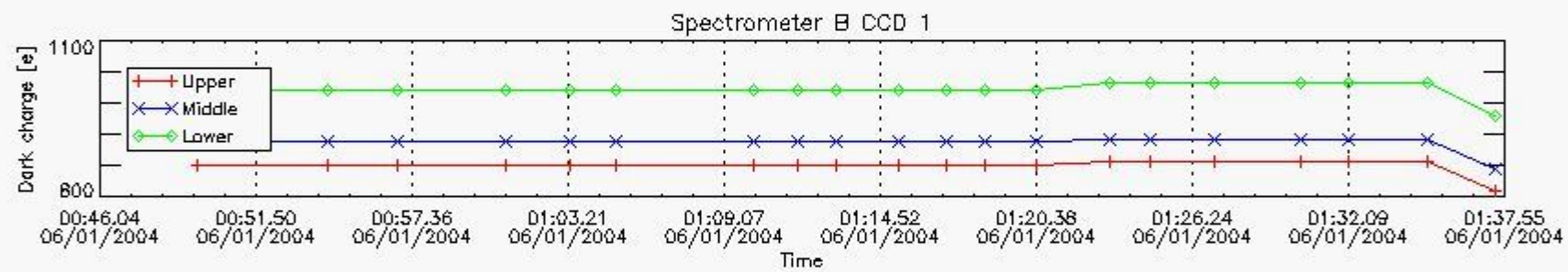
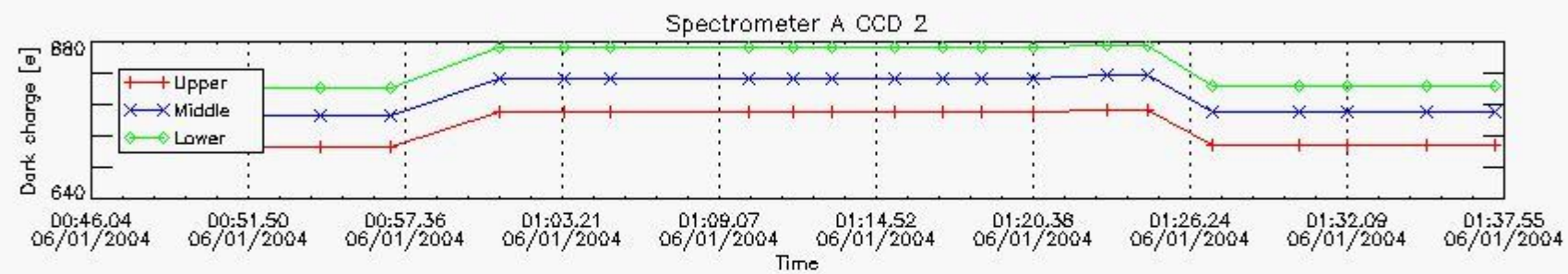
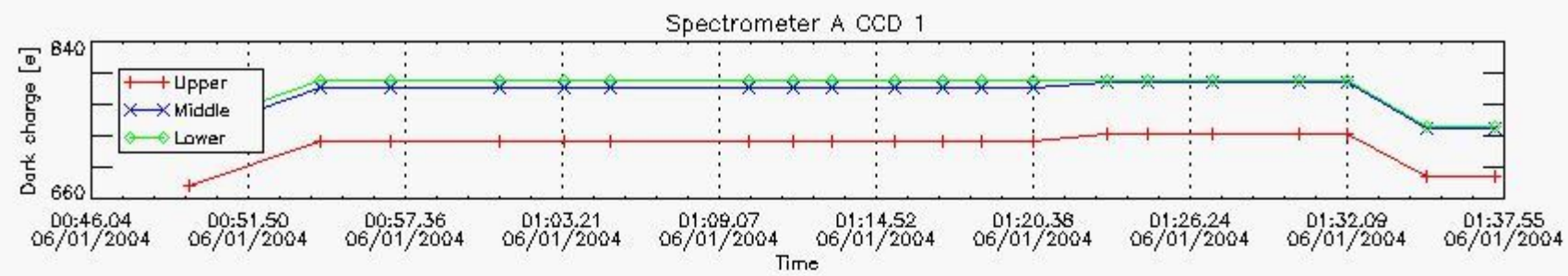
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

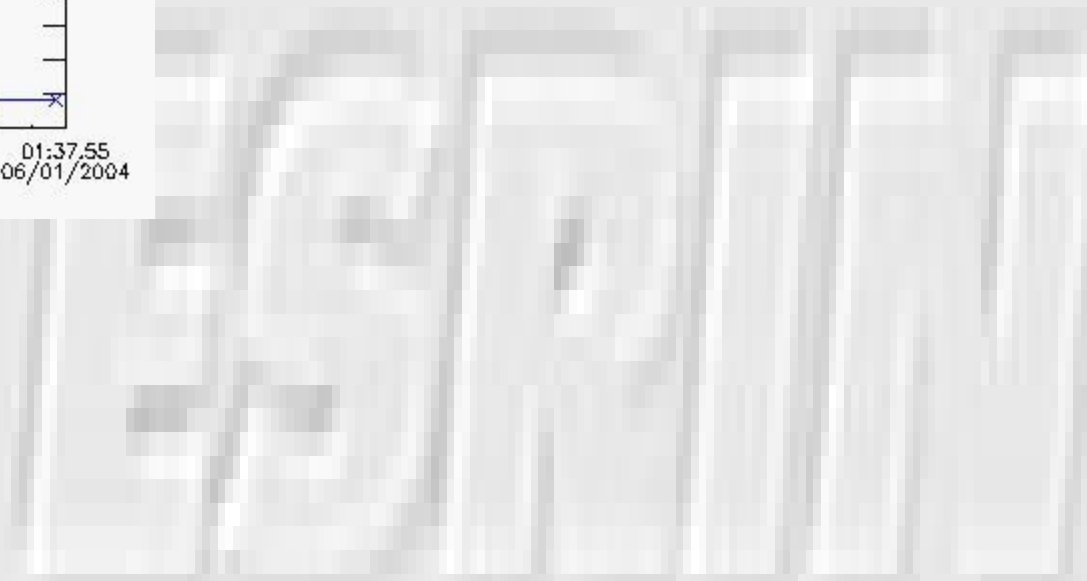




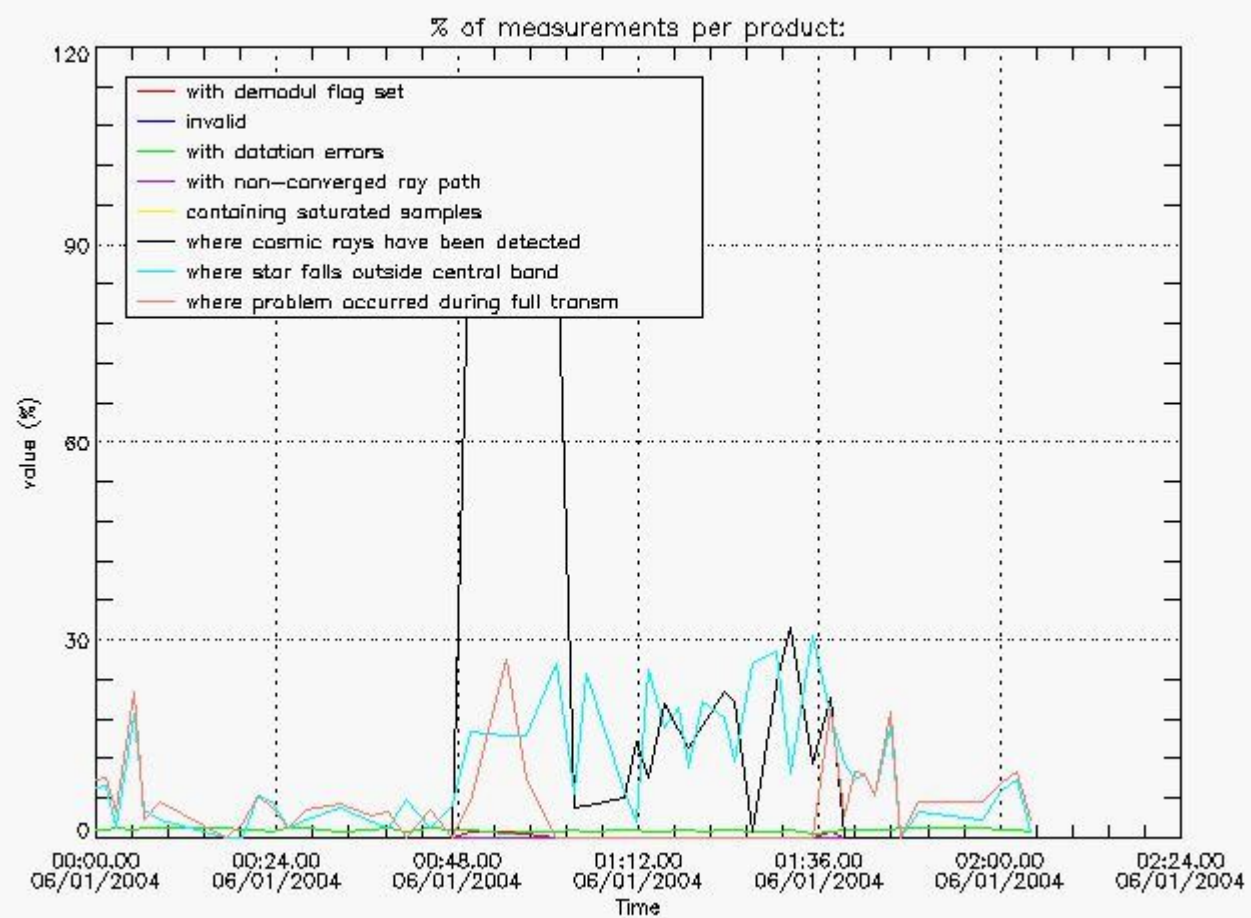
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	10.2041 %
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



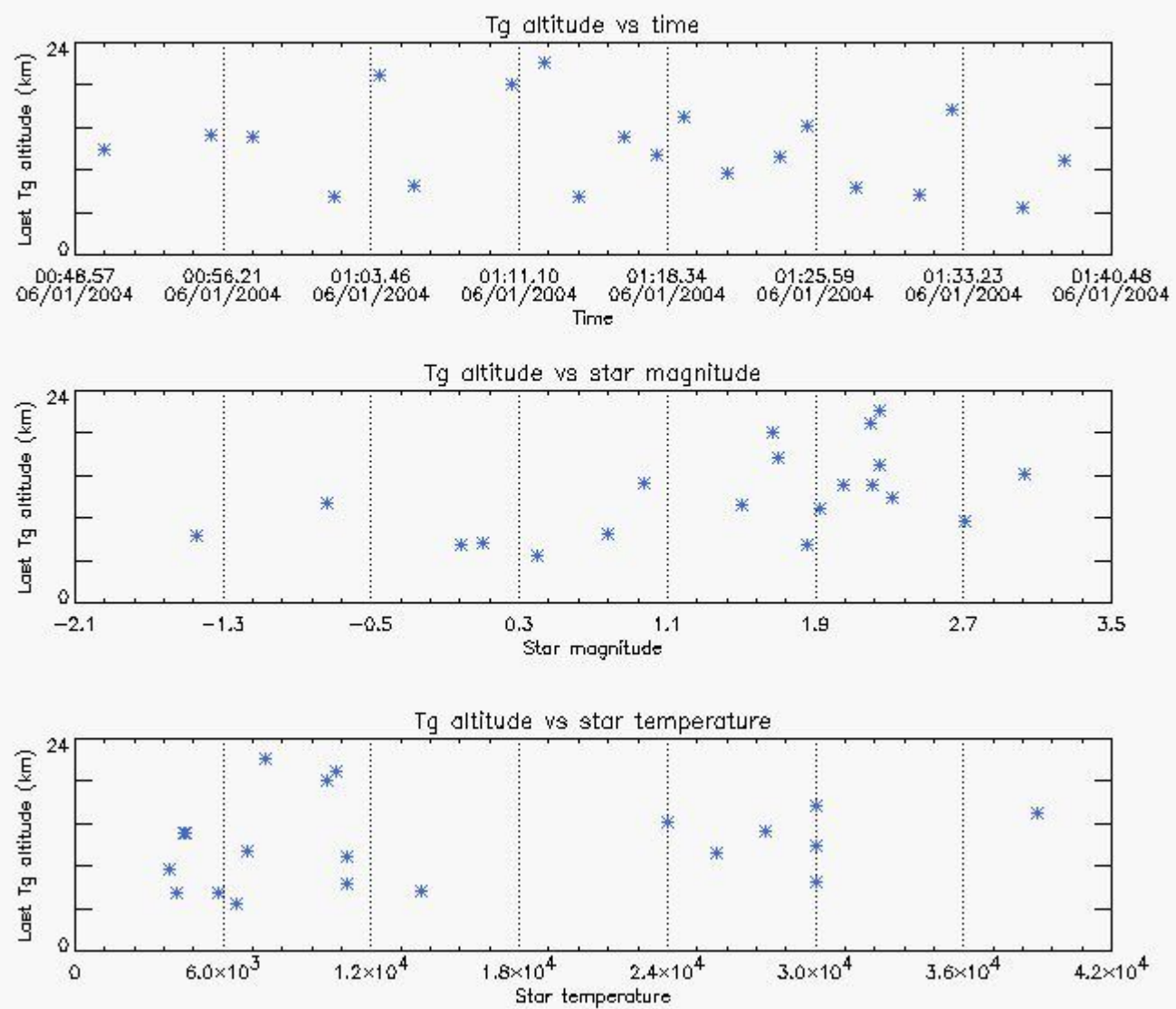
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	12.153	21.001
St. deviation:	4.8255	3.8507
Maximum:	21.762	26.422
Minimum:	5.3012	11.017
Number of data:	20.000	29.000

### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

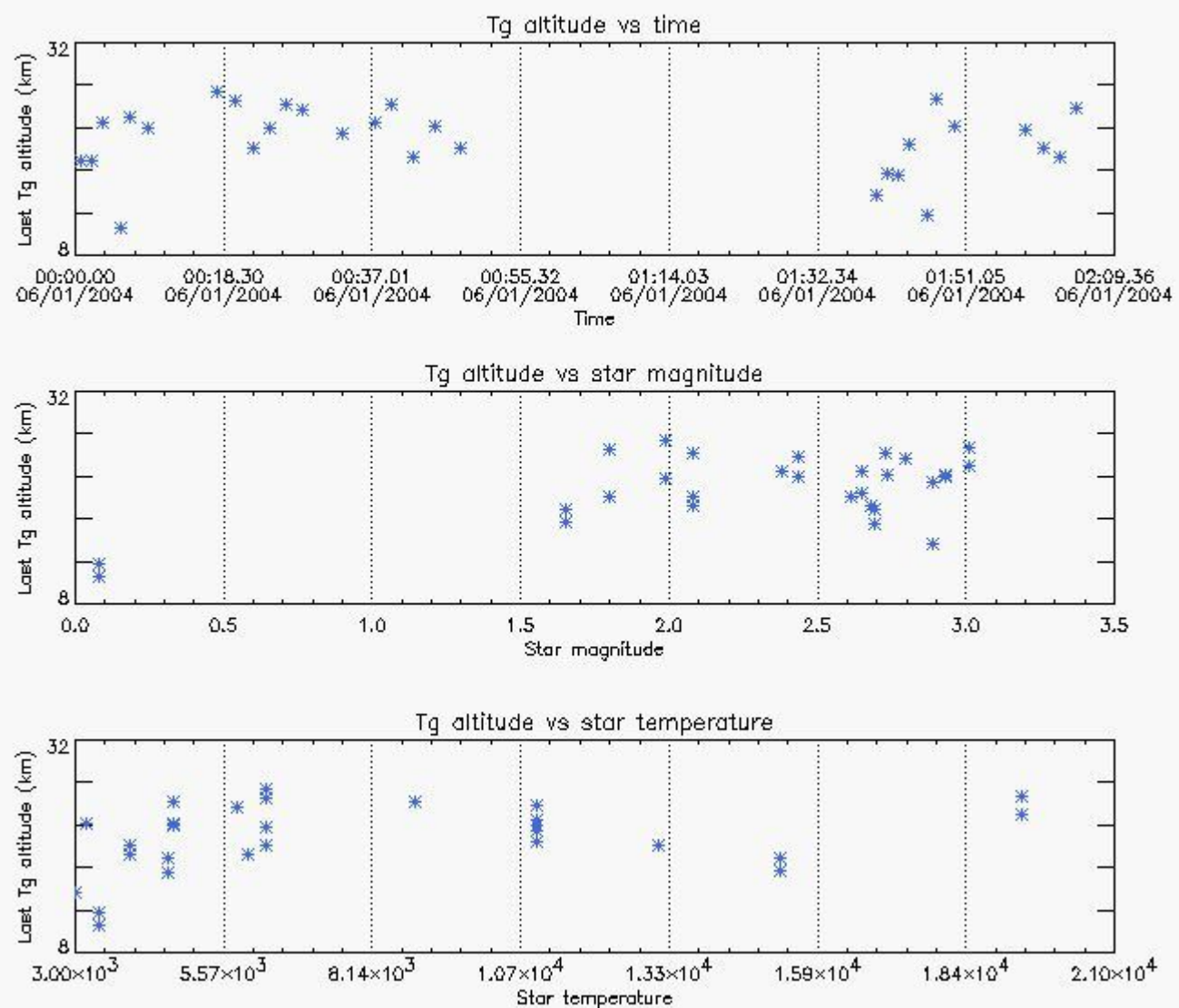


6.3 Plot for BRIGHT limb products





## Tangent altitude at which the star is lost



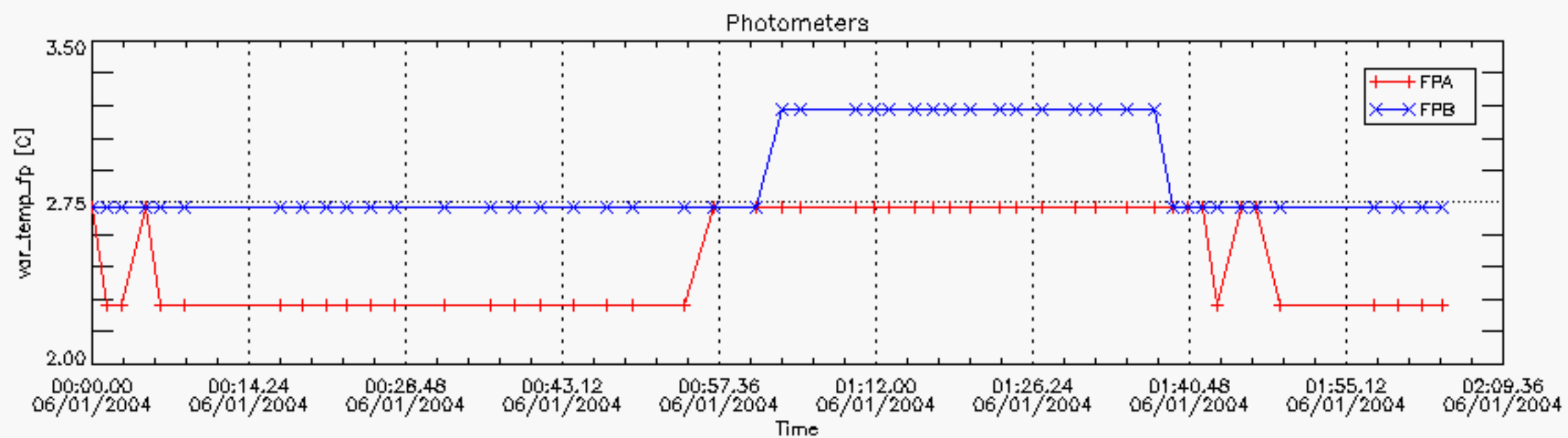
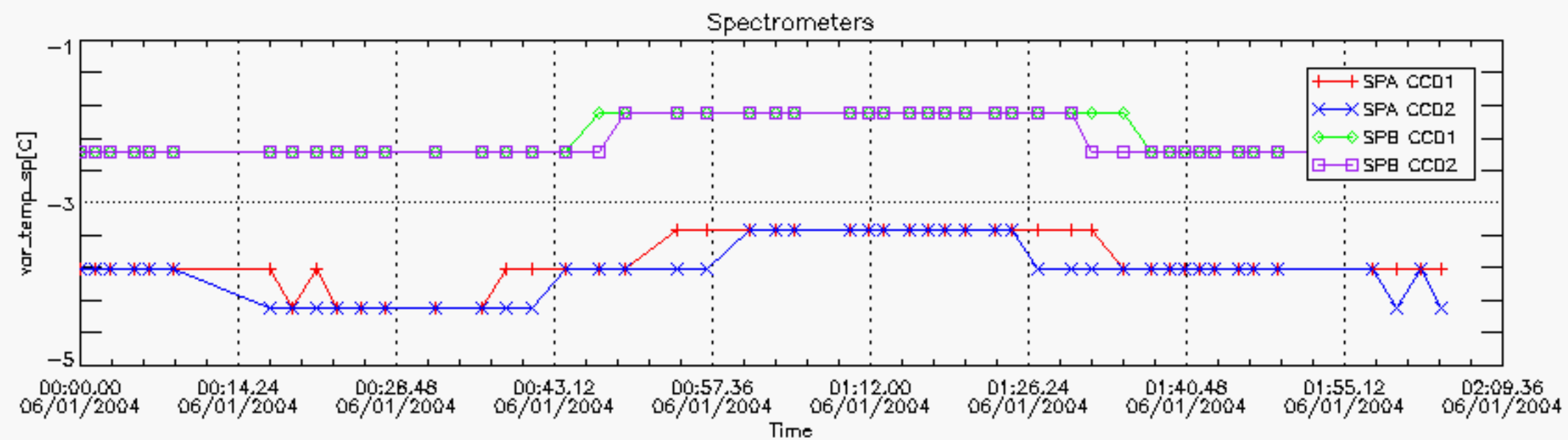
## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

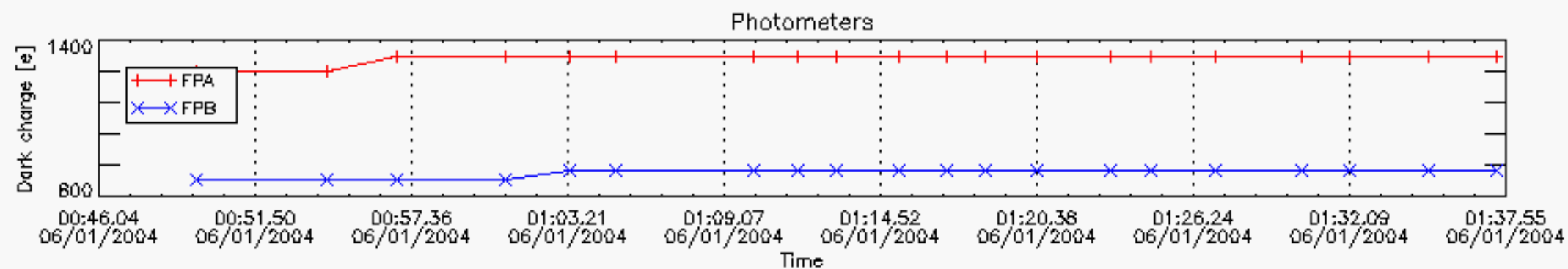
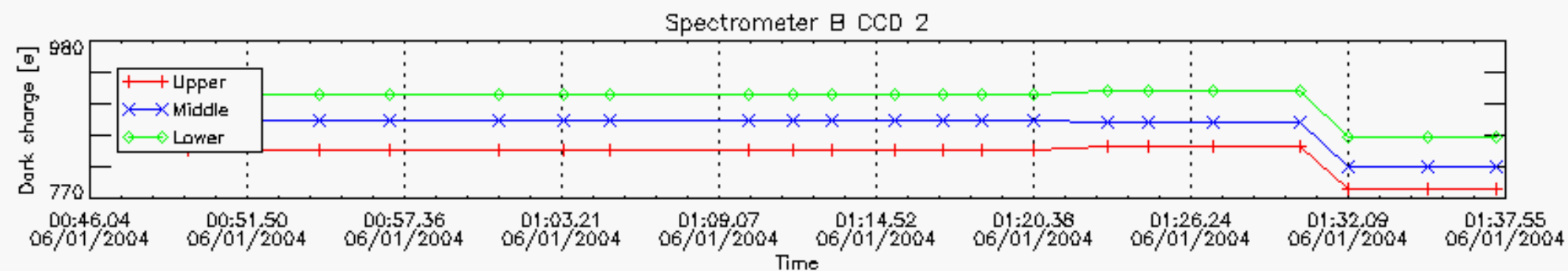
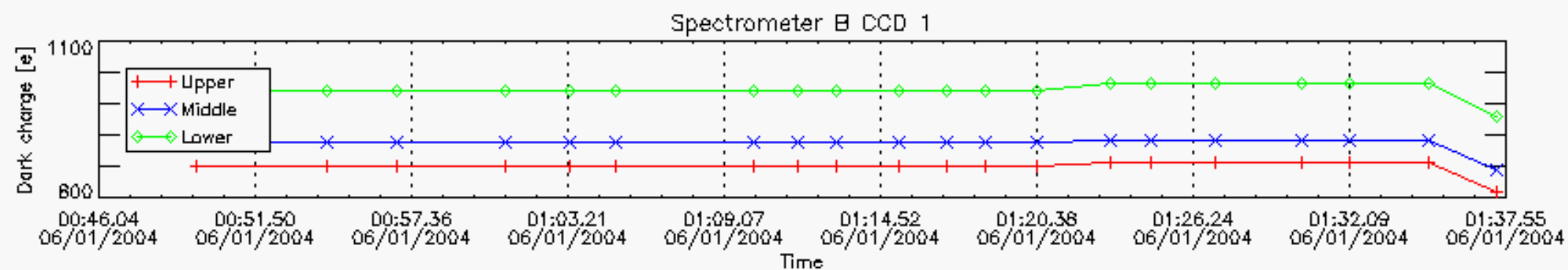
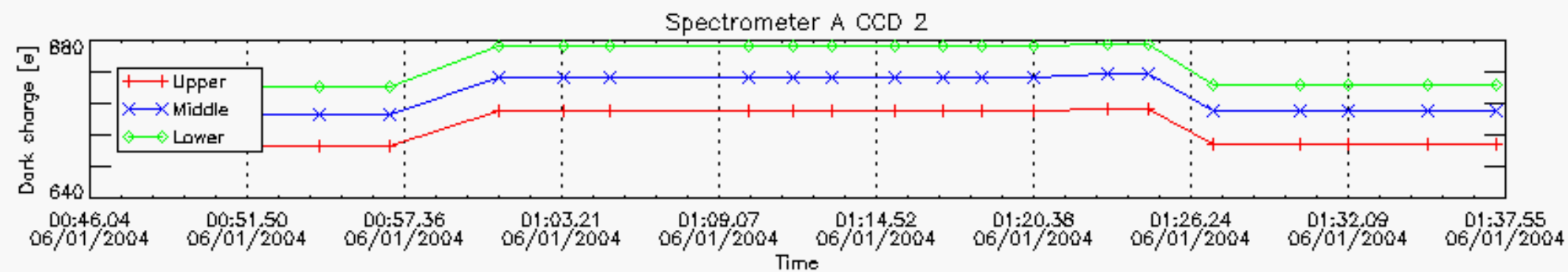
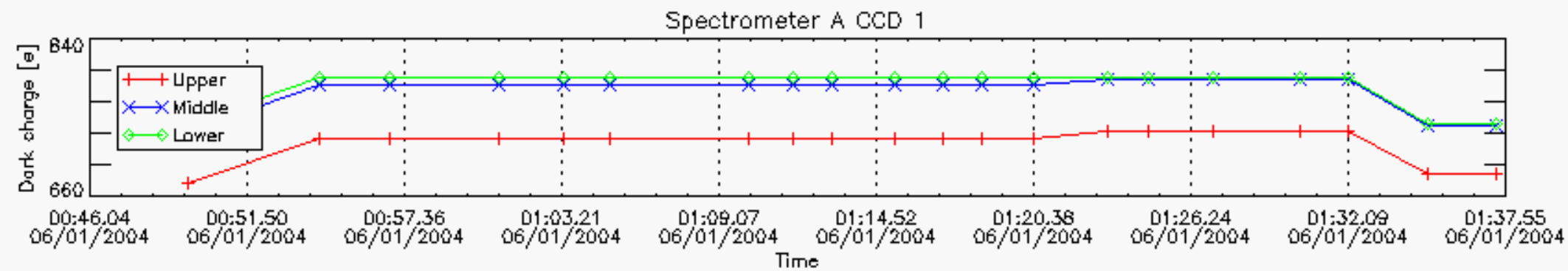
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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.

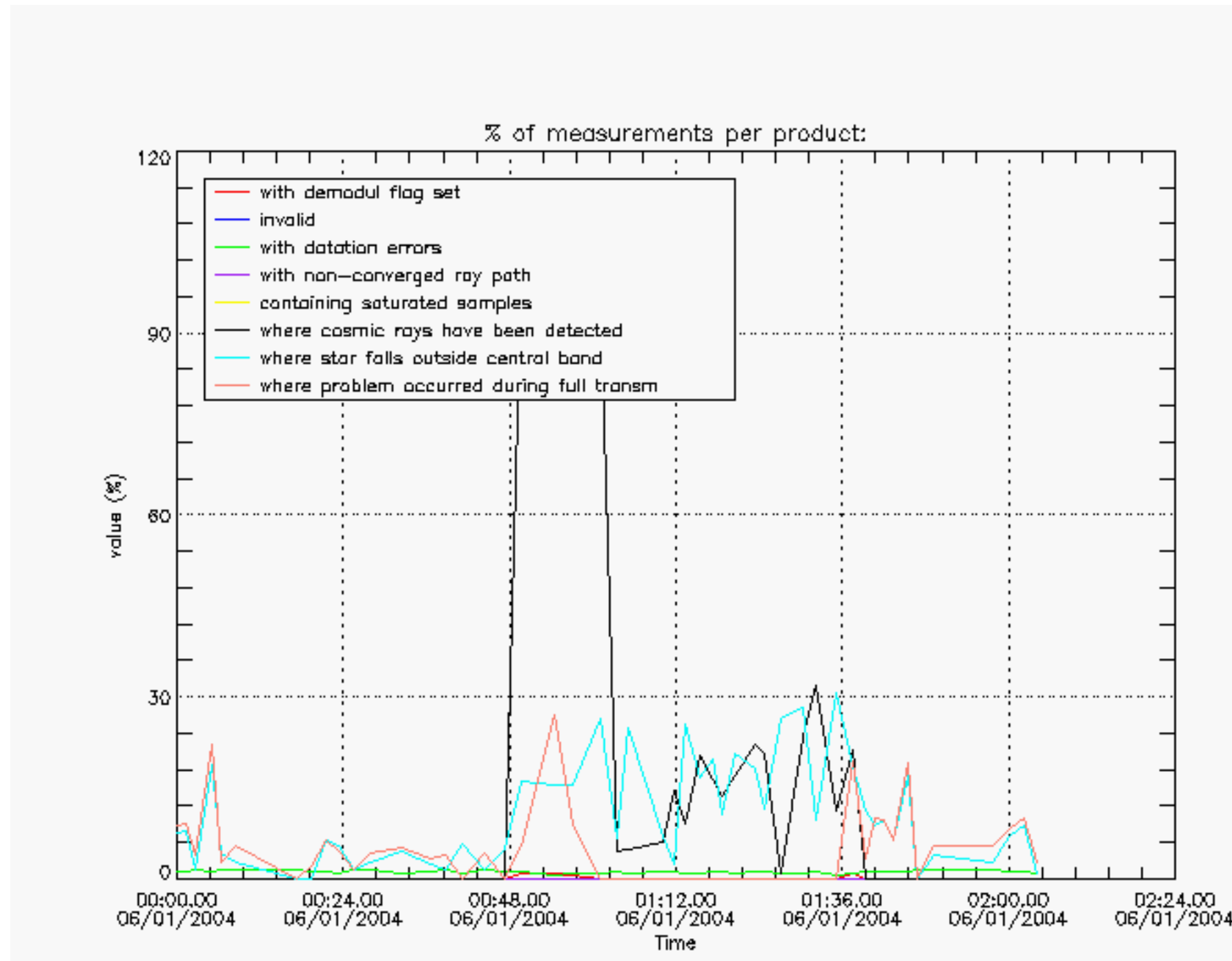
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1447.3	1460.9	1446.8
St. deviation:	3.8468	5.1105	7.2003	8.3110
Maximum:	1502.0	1502.0	1518.0	1506.0
Minimum:	1444.0	1433.0	1421.0	1409.0
Number of data:	26250.	26250.	33350.	33350.



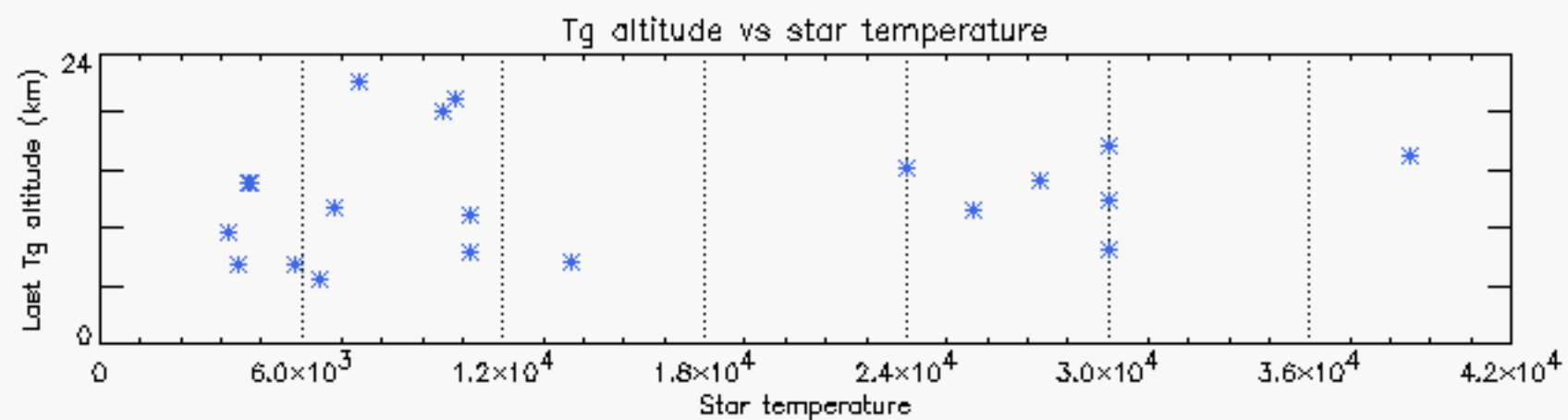
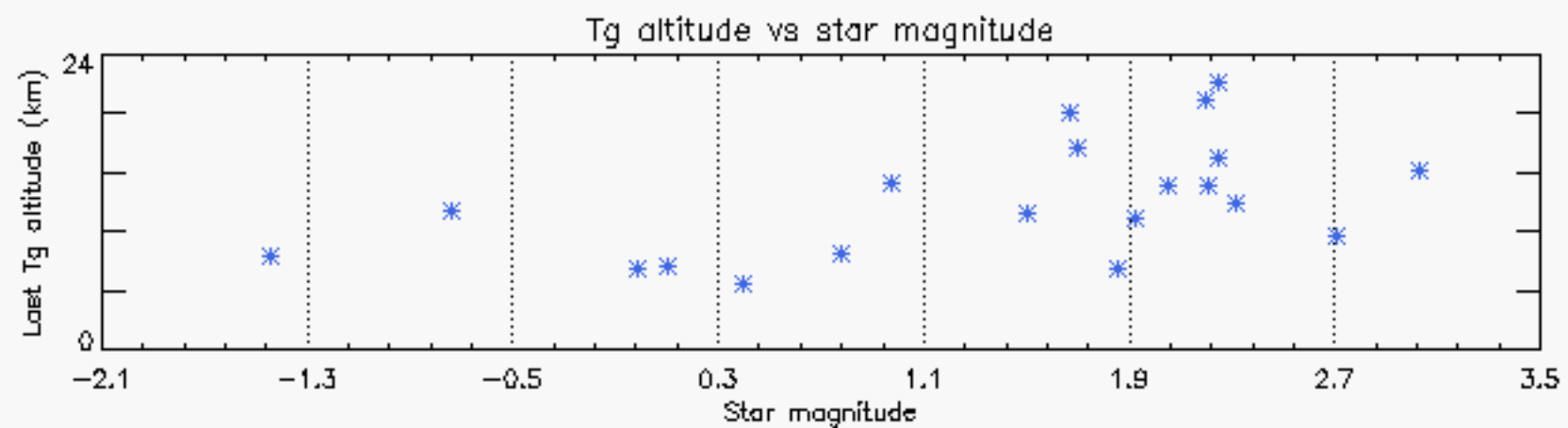
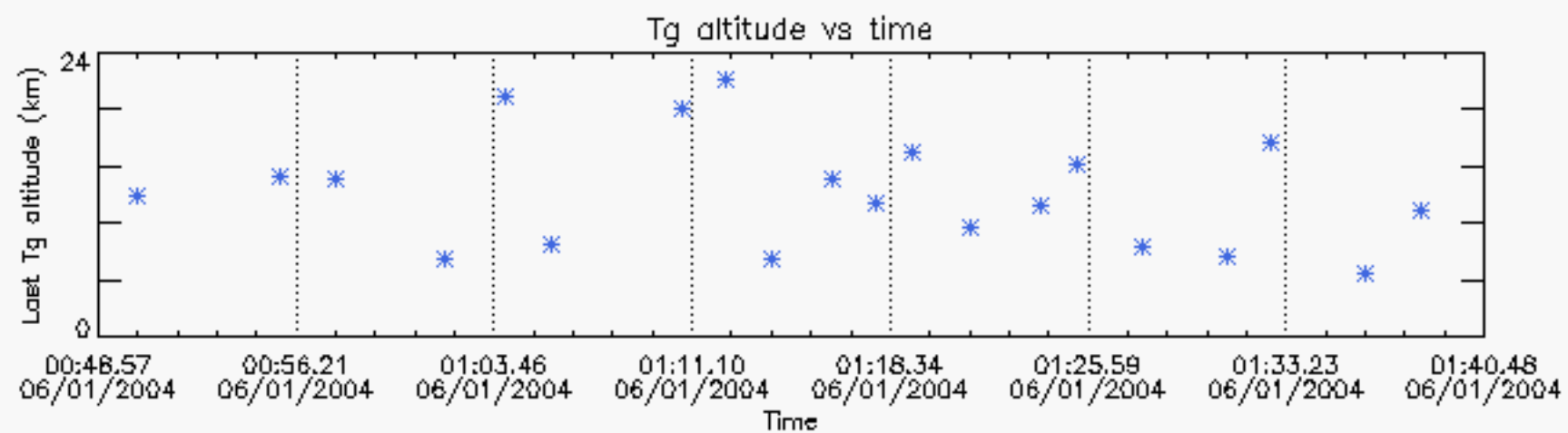






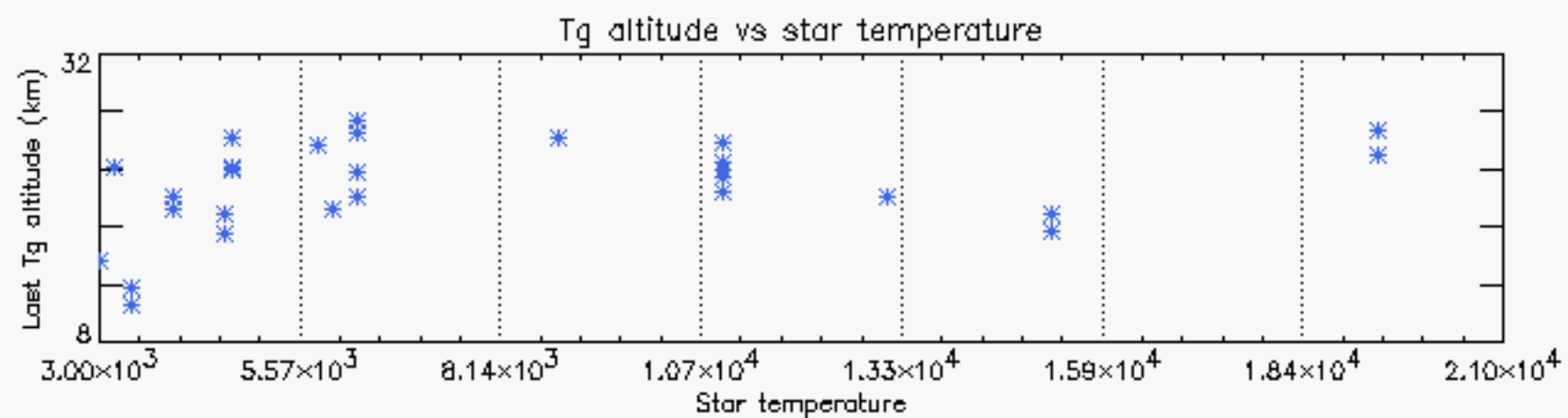
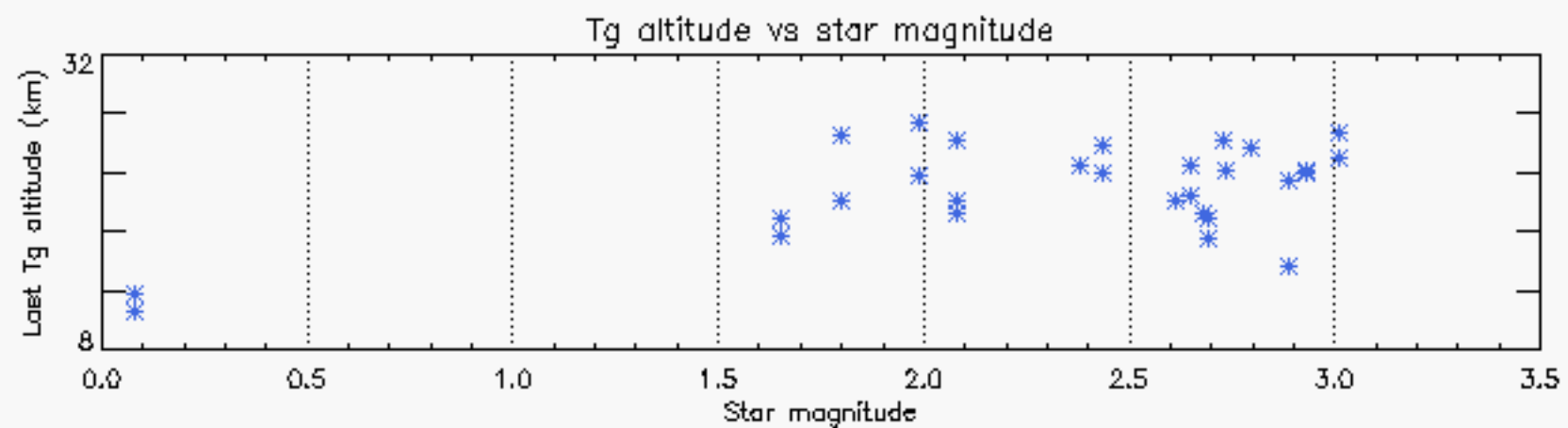
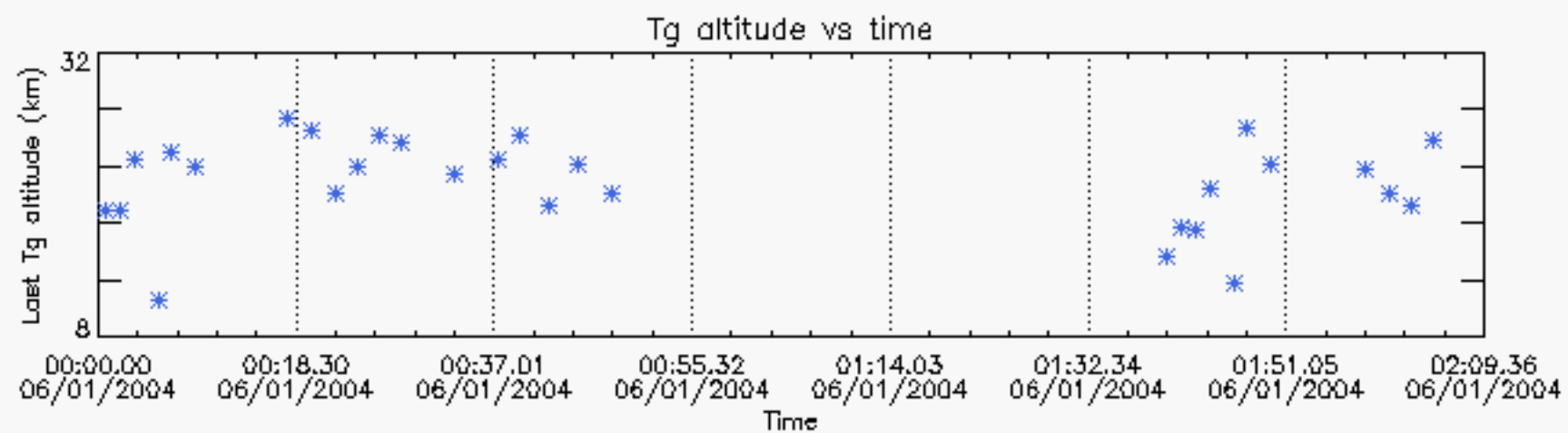


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/data4\_2/GOMOS/level0/GOM\_NL\_0PNPDK20040101\_054855\_000060682023\_00034\_09607\_0545.N1

1;	-4268.0;	01-JAN-2004	05:48:55;	Dark	;	45.5;	7;	19Bet Ori	;	0.10;	14000;occ;	91;	0;	9607
2;	-4156.2;	01-JAN-2004	05:50:47;	Dark	;	43.5;	30;	46Eps Ori	;	1.69;	30000;occ;	87;	0;	9607
3;	-3940.7;	01-JAN-2004	05:54:22;	Dark	;	82.0;	8;	10Alp CMi	;	0.40;	6500;occ;	164;	0;	9607
4;	-3806.3;	01-JAN-2004	05:56:37;	Dark	;	50.0;	44;	24Gam Gem	;	1.93;	11000;occ;	100;	0;	9607
5;	-3708.3;	01-JAN-2004	05:58:15;	Bright;		47.0;	151;	13Mu Gem	;	2.89;	3000;occ;	94;	0;	9607
6;	-3565.2;	01-JAN-2004	06:00:38;	Bright;		39.5;	114;	3Iot Aur	;	2.69;	4600;occ;	79;	0;	9607
7;	-3468.9;	01-JAN-2004	06:02:14;	Bright;		38.0;	107;	37The Aur	;	2.65;	11000;occ;	76;	0;	9607
8;	-3344.2;	01-JAN-2004	06:04:19;	Bright;		41.0;	6;	13Alp Aur	;	0.08;	3400;occ;	82;	0;	9607
9;	-3237.9;	01-JAN-2004	06:06:05;	Bright;		38.0;	35;	33Alp Per	;	1.79;	6250;occ;	76;	0;	9607
10;	-3161.0;	01-JAN-2004	06:07:22;	Bright;		38.0;	160;	23Gam Per	;	2.93;	4700;occ;	76;	0;	9607
11;	-2613.9;	01-JAN-2004	06:16:29;	Bright;		36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	9607
12;	-2439.5;	01-JAN-2004	06:19:24;	Bright;		51.0;	36;	50Alp UMa	;	1.80;	6300;occ;	102;	0;	9607
13;	-2196.7;	01-JAN-2004	06:23:26;	Bright;		56.5;	87;	64Gam UMa	;	2.43;	11000;occ;	113;	0;	9607
14;	-2065.9;	01-JAN-2004	06:25:37;	Bright;		47.5;	55;	79Zet UMa	;	2.06;	10200;occ;	95;	0;	9607
15;	-1929.3;	01-JAN-2004	06:27:54;	Bright;		48.5;	39;	85Eta UMa	;	1.85;	24000;occ;	97;	0;	9607
16;	-1684.9;	01-JAN-2004	06:31:58;	Bright;		42.5;	180;	27Gam Boo	;	3.04;	8000;occ;	85;	0;	9607
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21;	-685.5;	01-JAN-2004	06:48:37;	Dark	;	44.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	88;	0;	9607
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 34; 409.4; 03-JAN-2004 19:28:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9644  
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31; 580.2; 08-JAN-2004 06:49:35; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0; 9708
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7;	-4253.0;	08-JAN-2004	18:53:49;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;	occ;	104;	0;	9715
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15;	-3357.2;	08-JAN-2004	19:08:45;	Bright	;	41.0;	42;	34Bet Aur	;	1.90;	10200;	occ;	82;	0;	9715
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22;	-1972.9;	08-JAN-2004	19:31:49;	Bright	;	38.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	76;	0;	9715
23;	-1716.4;	08-JAN-2004	19:36:06;	Bright	;	72.5;	152;	12Alp2CVn	;	2.89;	11000;	occ;	145;	0;	9715
24;	-1440.2;	08-JAN-2004	19:40:42;	Bright	;	51.0;	83;		;	2.38;	11000;	occ;	102;	0;	9715
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26;	-1142.3;	08-JAN-2004	19:45:40;	Bright	;	73.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	146;	0;	9715
27;	-978.7;	08-JAN-2004	19:48:23;	Bright	;	39.0;	120;	1Del Oph	;	2.73;	3200;	occ;	78;	0;	9715
28;	-789.1;	08-JAN-2004	19:51:33;	Dark	;	46.0;	104;	27Bet Lib	;	2.61;	13100;	occ;	92;	0;	9715
29;	-650.4;	08-JAN-2004	19:53:52;	Dark	;	46.5;	80;	7Del Sco	;	2.32;	30000;	occ;	93;	0;	9715
30;	-305.3;	08-JAN-2004	19:59:37;	Dark	;	82.5;	15;	67Alp Vir	;	0.98;	28000;	occ;	165;	0;	9715
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33;	225.4;	08-JAN-2004	20:08:27;	Dark	;	42.5;	20;	Bet Cru	;	1.25;	30000;	occ;	85;	0;	9716
34;	362.4;	08-JAN-2004	20:10:44;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	9716
35;	483.3;	08-JAN-2004	20:12:45;	Dark	;	39.0;	124;	The Car	;	2.76;	30000;	occ;	78;	0;	9716
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37;	683.8;	08-JAN-2004	20:16:06;	Dark	;	41.5;	71;	Iot Car	;	2.25;	7700;	occ;	83;	0;	9716
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3;	-4829.1;	08-JAN-2004	20:24:49;	Dark	;	47.5;	117;	Pi Pup	;	2.71;	3800;	occ;	95;	0;	9716
4;	-4669.5;	08-JAN-2004	20:27:28;	Dark	;	49.5;	23;	21Eps CMa	;	1.50;	26000;	occ;	99;	0;	9716
5;	-4581.5;	08-JAN-2004	20:28:56;	Dark	;	44.5;	179;	240mi2CMa	;	3.03;	24000;	occ;	89;	0;	9716
6;	-4442.7;	08-JAN-2004	20:31:15;	Dark	;	48.5;	1;	9Alp CMa	;	-1.44;	11000;	occ;	97;	0;	9716
7;	-4252.2;	08-JAN-2004	20:34:26;	Dark	;	49.5;	7;	19Bet Ori	;	0.10;	14000;	occ;	99;	0;	9716
8;	-4147.0;	08-JAN-2004	20:36:11;	Dark	;	44.0;	30;	46Eps Ori	;	1.69;	30000;	occ;	88;	0;	9716
9;	-3994.7;	08-JAN-2004	20:38:43;	Dark	;	64.5;	8;	10Alp CMi	;	0.40;	6500;	occ;	129;	0;	9716
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33;-124.2; 10-JAN-2004 20:39:59; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0; 9744
34; 45.3; 10-JAN-2004 20:42:49; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0; 9745
35; 241.9; 10-JAN-2004 20:46:05; Dark ; 46.0; 20; Bet Cru ; 1.25; 30000;occ; 92; 0; 9745
36; 335.9; 10-JAN-2004 20:47:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9745
37; 497.7; 10-JAN-2004 20:50:21; Dark ; 40.5; 124; The Car ; 2.76; 30000;occ; 81; 0; 9745
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39; 697.4; 10-JAN-2004 20:53:41; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0; 9745
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5;-3840.9; 11-JAN-2004 07:22:14; Dark ; 44.0; 44; 24Gam Gem ; 1.93; 11000;occ; 88; 0; 9751
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8;-3550.6; 11-JAN-2004 07:27:04; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0; 9751
9;-3360.7; 11-JAN-2004 07:30:14; Bright; 37.5; 42; 34Bet Aur ; 1.90; 10200;occ; 75; 0; 9751
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11;-3106.2; 11-JAN-2004 07:34:28; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0; 9751
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17;-1788.0; 11-JAN-2004 07:56:27; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0; 9751
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22;-878.9; 11-JAN-2004 08:11:36; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0; 9751
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26;-119.7; 11-JAN-2004 08:24:15; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0; 9751
27; 247.1; 11-JAN-2004 08:30:22; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0; 9752
28; 342.4; 11-JAN-2004 08:31:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9752
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33; 1010.7; 11-JAN-2004 08:43:05; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0; 9752
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35; 1217.8; 11-JAN-2004 08:46:33; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0; 9752
36; 1375.0; 11-JAN-2004 08:49:10; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0; 9752
37; 1461.6; 11-JAN-2004 08:50:36; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0; 9752
38; 1598.7; 11-JAN-2004 08:52:53; Dark ; 46.5; 1; 9Alp CMA ; -1.44; 11000;occ; 93; 0; 9752

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3;	-4244.9;	11-JAN-2004	10:36:42;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;occ;	104;	0;	9753
4;	-4141.3;	11-JAN-2004	10:38:25;	Dark	;	40.5;	30;	46Eps Ori	;	1.69;	30000;occ;	81;	0;	9753
5;	-4006.3;	11-JAN-2004	10:40:40;	Dark	;	58.5;	8;	10Alp CMi	;	0.40;	6500;occ;	117;	0;	9753
6;	-3840.9;	11-JAN-2004	10:43:26;	Dark	;	46.0;	44;	24Gam Gem	;	1.93;	11000;occ;	92;	0;	9753
7;	-3739.5;	11-JAN-2004	10:45:07;	Bright;		42.0;	151;	13Mu Gem	;	2.89;	3000;occ;	84;	0;	9753
8;	-3639.1;	11-JAN-2004	10:46:47;	Bright;		39.0;	28;	12Bet Tau	;	1.65;	15200;occ;	78;	0;	9753
9;	-3550.4;	11-JAN-2004	10:48:16;	Bright;		38.0;	114;	3Iot Aur	;	2.69;	4600;occ;	76;	0;	9753
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11;	-3243.7;	11-JAN-2004	10:53:23;	Bright;		37.0;	175;	39Del Per	;	3.01;	19400;occ;	74;	0;	9753
12;	-3105.7;	11-JAN-2004	10:55:41;	Bright;		36.5;	160;	23Gam Per	;	2.93;	4700;occ;	73;	0;	9753
13;	-2613.1;	11-JAN-2004	11:03:53;	Bright;		38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;	9753
14;	-2509.2;	11-JAN-2004	11:05:37;	Bright;		53.0;	82;	48Bet UMA	;	2.37;	10600;occ;	106;	0;	9753
15;	-2364.3;	11-JAN-2004	11:08:02;	Bright;		40.0;	60;	7Bet UMi	;	2.08;	3950;occ;	80;	0;	9753
16;	-2194.7;	11-JAN-2004	11:10:52;	Bright;		53.0;	32;	77Eps UMa	;	1.76;	11000;occ;	106;	0;	9753
17;	-1968.1;	11-JAN-2004	11:14:38;	Bright;		35.5;	130;	23Bet Dra	;	2.80;	5800;occ;	71;	0;	9753
18;	-1787.9;	11-JAN-2004	11:17:39;	Bright;		35.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	71;	0;	9753
19;	-1683.2;	11-JAN-2004	11:19:23;	Bright;		49.0;	180;	27Gam Boo	;	3.04;	8000;occ;	98;	0;	9753
20;	-1430.4;	11-JAN-2004	11:23:36;	Bright;		54.5;	83;		;	2.38;	11000;occ;	109;	0;	9753
21;	-1307.1;	11-JAN-2004	11:25:39;	Bright;		35.5;	59;	55Alp Oph	;	2.08;	8900;occ;	71;	0;	9753
22;	-1108.5;	11-JAN-2004	11:28:58;	Bright;		78.5;	111;	8Eta Boo	;	2.68;	6000;occ;	157;	0;	9753
23;	-878.6;	11-JAN-2004	11:32:48;	Bright;		52.0;	98;	13Zet Oph	;	2.57;	30000;occ;	104;	0;	9753
24;	-611.5;	11-JAN-2004	11:37:15;	Dark	;	46.0;	16;	21Alp Sco	;	1.02;	3000;occ;	92;	0;	9753
25;	-306.1;	11-JAN-2004	11:42:20;	Dark	;	38.5;	131;	Gam Lup	;	2.80;	26000;occ;	77;	0;	9753
26;	-209.2;	11-JAN-2004	11:43:57;	Dark	;	41.0;	109;	Bet Lup	;	2.68;	26000;occ;	82;	0;	9753
27;	-118.7;	11-JAN-2004	11:45:28;	Dark	;	40.5;	78;	Alp Lup	;	2.30;	28000;occ;	81;	0;	9753
28;	247.8;	11-JAN-2004	11:51:34;	Dark	;	42.5;	20;	Bet Cru	;	1.25;	30000;occ;	85;	0;	9754
29;	344.4;	11-JAN-2004	11:53:11;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	9754
30;	502.5;	11-JAN-2004	11:55:49;	Dark	;	40.5;	124;	The Car	;	2.76;	30000;occ;	81;	0;	9754
31;	595.6;	11-JAN-2004	11:57:22;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	9754
32;	701.7;	11-JAN-2004	11:59:08;	Dark	;	50.0;	71;	Iot Car	;	2.25;	7700;occ;	100;	0;	9754
33;	782.9;	11-JAN-2004	12:00:29;	Dark	;	51.0;	41;	Eps Car	;	1.86;	4100;occ;	102;	0;	9754
34;	1010.6;	11-JAN-2004	12:04:17;	Dark	;	46.0;	2;	Alp Car	;	-0.74;	7000;occ;	92;	0;	9754
35;	1111.4;	11-JAN-2004	12:05:58;	Dark	;	42.0;	70;	Zet Pup	;	2.25;	39000;occ;	84;	0;	9754
36;	1217.7;	11-JAN-2004	12:07:44;	Dark	;	46.0;	117;	Pi Pup	;	2.71;	3800;occ;	92;	0;	9754
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5;	-4244.8;	11-JAN-2004	17:19:05;	Dark	;	48.0;	7;	19Bet Ori	;	0.10;	14000;occ;	96;	0;	9757
6;	-4141.4;	11-JAN-2004	17:20:49;	Dark	;	43.5;	30;	46Eps Ori	;	1.69;	30000;occ;	87;	0;	9757
7;	-4007.3;	11-JAN-2004	17:23:03;	Dark	;	60.0;	8;	10Alp CMi	;	0.40;	6500;occ;	120;	0;	9757
8;	-3842.0;	11-JAN-2004	17:25:48;	Dark	;	44.0;	44;	24Gam Gem	;	1.93;	11000;occ;	88;	0;	9757
9;	-3740.1;	11-JAN-2004	17:27:30;	Bright;		43.5;	151;	13Mu Gem	;	2.89;	3000;occ;	87;	0;	9757
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13;	-3242.3;	11-JAN-2004	17:35:48;	Bright;		37.5;	175;	39Del Per	;	3.01;	19400;occ;	75;	0;	9757
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16;	-2512.9;	11-JAN-2004	17:47:57;	Bright;		55.0;	82;	48Bet UMA	;	2.37;	10600;occ;	110;	0;	9757
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18;	-2197.4;	11-JAN-2004	17:53:13;	Bright;		53.0;	32;	77Eps UMa	;	1.76;	11000;occ;	106;	0;	9757
19;	-1967.8;	11-JAN-2004	17:57:02;	Bright;		37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	9757
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21;	-1683.7;	11-JAN-2004	18:01:47;	Bright;		49.5;	180;	27Gam Boo	;	3.04;	8000;occ;	99;	0;	9757
22;	-1430.0;	11-JAN-2004	18:06:00;	Bright;		54.0;	83;		;	2.38;	11000;occ;	108;	0;	9757
23;	-1305.9;	11-JAN-2004	18:08:04;	Bright;		34.0;	59;	55Alp Oph	;	2.08;	8900;occ;	68;	0;	9757
24;	-1105.4;	11-JAN-2004	18:11:25;	Dark	;	84.5;	111;	8Eta Boo	;	2.68;	6000;occ;	169;	0;	9757
25;	-877.1;	11-JAN-2004	18:15:13;	Bright;		52.0;	98;	13Zet Oph	;	2.57;	30000;occ;	104;	0;	9757
26;	-762.4;	11-JAN-2004	18:17:08;	Dark	;	48.0;	104;	27Bet Lib	;	2.61;	13100;occ;	96;	0;	9757
27;	-610.1;	11-JAN-2004	18:19:40;	Dark	;	52.0;	16;	21Alp Sco	;	1.02;	3000;occ;	104;	0;	9757
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29;	-140.8;	27-JAN-2004	20:05:11;	Dark	;	39.5;	141;	Bet	Ara	;	2.84;	4600;occ;	79;	0;	9987
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33;	265.5;	27-JAN-2004	20:11:57;	Dark	;	58.5;	0;			;	0.00;	0;occ;	117;	0;	9988
34;	432.6;	27-JAN-2004	20:14:44;	Dark	;	42.0;	12;	Alp1Cru		;	0.77;	30000;occ;	84;	0;	9988
35;	535.9;	27-JAN-2004	20:16:28;	Dark	;	47.5;	99;	Del	Cen	;	2.58;	26000;occ;	95;	0;	9988
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7;	-3632.9;	28-JAN-2004	06:51:10;	Bright;		44.5;	17;	78Bet	Gem	;	1.16;	4500;occ;	89;	0;	9994
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16;	-1742.6;	28-JAN-2004	07:22:41;	Bright;		37.0;	5;	3Alp	Lyr	;	0.03;	11000;occ;	74;	0;	9994
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18;	-1340.8;	28-JAN-2004	07:29:22;	Bright;		80.5;	83;			;	2.38;	11000;occ;	161;	0;	9994
19;	-1130.7;	28-JAN-2004	07:32:52;	Bright;		38.0;	126;	60Bet	Oph	;	2.77;	4250;occ;	76;	0;	9994
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