

GOMOS Daily Report 09-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	10JAN2004 06:52:37
Data source version	<Any version>
Start time of products	09-JAN-2004 (09JAN2004 00:00:00)
Stop time of products	10-JAN-2004 (10JAN2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	1

2. Summary of products arrived in PCF

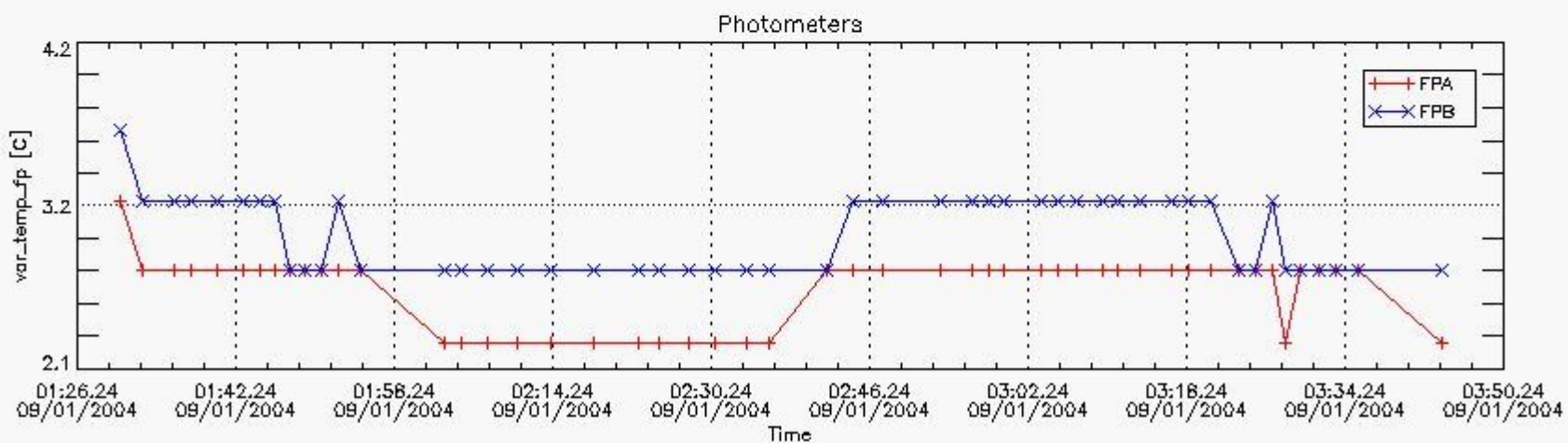
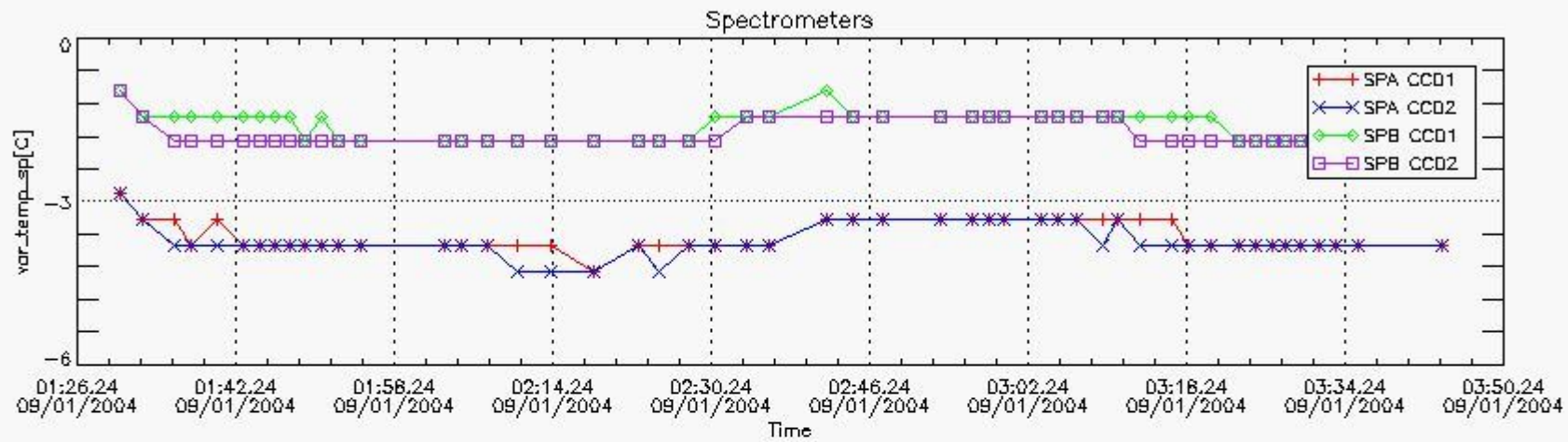
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040109_013044_000000452023_00146_09719_0000.N1	09-JAN-2004 01:30:44	Dark	45.000	179	24Omi2CMa	3.0320	24000.	90	9719	Yes
GOM_TRA_1PNPDE20040109_013303_000000512023_00146_09719_0001.N1	09-JAN-2004 01:33:03	Dark	51.000	1	9Alp CMa	-1.4400	11000.	102	9719	No
GOM_TRA_1PNPDE20040109_013611_000000522023_00146_09719_0002.N1	09-JAN-2004 01:36:11	Dark	52.000	7	19Bet Ori	0.10000	14000.	104	9719	No
GOM_TRA_1PNPDE20040109_013756_000000472023_00146_09719_0003.N1	09-JAN-2004 01:37:56	Dark	46.500	30	46Eps Ori	1.6940	30000.	93	9719	No
GOM_TRA_1PNPDE20040109_014030_000000702023_00146_09719_0004.N1	09-JAN-2004 01:40:30	Dark	70.000	8	10Alp CMi	0.40000	6500.0	140	9719	No
GOM_TRA_1PNPDE20040109_014309_000000442023_00146_09719_0005.N1	09-JAN-2004 01:43:09	Dark	43.500	44	24Gam Gem	1.9280	11000.	87	9719	No
GOM_TRA_1PNPDE20040109_014450_000000472023_00146_09719_0006.N1	09-JAN-2004 01:44:50	Bright	46.500	151	13Mu Gem	2.8900	3000.0	93	9719	No
GOM_TRA_1PNPDE20040109_014624_000000392023_00146_09719_0007.N1	09-JAN-2004 01:46:24	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	9719	No
GOM_TRA_1PNPDE20040109_014748_000000392023_00146_09719_0008.N1	09-JAN-2004 01:47:48	Bright	38.500	114	3Iot Aur	2.6930	4600.0	77	9719	No
GOM_TRA_1PNPDE20040109_014921_000000472023_00146_09719_0009.N1	09-JAN-2004 01:49:21	Bright	47.000	24	66Alp Gem	1.5800	10200.	94	9719	No
GOM_TRA_1PNPDE20040109_015107_000000392023_00146_09719_0010.N1	09-JAN-2004 01:51:07	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	9719	No
GOM_TRA_1PNPDE20040109_015249_000000382023_00146_09719_0011.N1	09-JAN-2004 01:52:49	Bright	38.000	175	39Del Per	3.0100	19400.	76	9719	No
GOM_TRA_1PNPDE20040109_015504_000000402023_00146_09719_0012.N1	09-JAN-2004 01:55:04	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	9719	No
GOM_TRA_1PNPDE20040109_020332_000000372023_00146_09719_0013.N1	09-JAN-2004 02:03:32	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	9719	No
GOM_TRA_1PNPDE20040109_020511_000000512023_00146_09719_0014.N1	09-JAN-2004 02:05:11	Bright	51.000	36	50Alp UMa	1.8000	6300.0	102	9719	No
GOM_TRA_1PNPDE20040109_020746_000000422023_00146_09719_0015.N1	09-JAN-2004 02:07:46	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	9719	No
GOM_TRA_1PNPDE20040109_021050_000000522023_00146_09719_0016.N1	09-JAN-2004 02:10:50	Bright	51.500	32	77Eps UMa	1.7630	11000.	103	9719	No
GOM_TRA_1PNPDE20040109_021413_000000362023_00146_09719_0017.N1	09-JAN-2004 02:14:13	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	9719	No
GOM_TRA_1PNPDE20040109_021828_000000732023_00146_09719_0018.N1	09-JAN-2004 02:18:28	Bright	73.000	152	12Alp2CVn	2.8900	11000.	146	9719	No
GOM_TRA_1PNPDE20040109_022306_000000512023_00146_09719_0019.N1	09-JAN-2004 02:23:06	Bright	51.000	83		2.3780	11000.	102	9719	No
GOM_TRA_1PNPDE20040109_022512_000000362023_00146_09719_0020.N1	09-JAN-2004 02:25:12	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	9719	No
GOM_TRA_1PNPDE20040109_022807_000000702023_00146_09719_0021.N1	09-JAN-2004 02:28:07	Bright	69.500	111	8Eta Boo	2.6800	6000.0	139	9719	No
GOM_TRA_1PNPDE20040109_023048_000000392023_00146_09719_0022.N1	09-JAN-2004 02:30:48	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	9719	No
GOM_TRA_1PNPDE20040109_023359_000000462023_00146_09719_0023.N1	09-JAN-2004 02:33:59	Dark	46.000	104	27Bet Lib	2.6140	13100.	92	9719	No
GOM_TRA_1PNPDE20040109_023617_000000412023_00146_09719_0024.N1	09-JAN-2004 02:36:17	Dark	41.000	80	7Del Sco	2.3160	30000.	82	9719	No
GOM_TRA_1PNPDE20040109_024208_000000832023_00146_09719_0025.N1	09-JAN-2004 02:42:08	Dark	83.000	15	67Alp Vir	0.97600	28000.	166	9719	No
GOM_TRA_1PNPDE20040109_024447_000000412023_00146_09719_0026.N1	09-JAN-2004 02:44:47	Dark	41.000	78	Alp Lup	2.3040	28000.	82	9719	No
GOM_TRA_1PNPDE20040109_024741_000000422023_00147_09720_0027.N1	09-JAN-2004 02:47:41	Dark	42.000	4	Alp1Cen	-0.010000	5800.0	84	9720	No
GOM_TRA_1PNPDE20040109_025333_000000982023_00147_09720_0028.N1	09-JAN-2004 02:53:33	Dark	98.000	171	2Eps Crv	3.0010	4250.0	196	9720	No
GOM_TRA_1PNPDE20040109_025649_000000412023_00147_09720_0029.N1	09-JAN-2004 02:56:49	Dark	40.500	29	Bet Car	1.6720	10200.	81	9720	No
GOM_TRA_1PNPDE20040109_025831_000000472023_00147_09720_0030.N1	09-JAN-2004 02:58:31	Dark	46.500	71	Iot Car	2.2460	7700.0	93	9720	No
GOM_TRA_1PNPDE20040109_025955_000000542023_00147_09720_0031.N1	09-JAN-2004 02:59:55	Dark	53.500	41	Eps Car	1.8600	4100.0	107	9720	No
GOM_TRA_1PNPDE20040109_030348_000000472023_00147_09720_0032.N1	09-JAN-2004 03:03:48	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	9720	No
GOM_TRA_1PNPDE20040109_030523_000000452023_00147_09720_0033.N1	09-JAN-2004 03:05:23	Dark	45.000	70	Zet Pup	2.2460	39000.	90	9720	No
GOM_TRA_1PNPDE20040109_030713_000000502023_00147_09720_0034.N1	09-JAN-2004 03:07:13	Dark	49.500	117	Pi Pup	2.7060	3800.0	99	9720	No
GOM_TRA_1PNPDE20040109_030953_000000452023_00147_09720_0035.N1	09-JAN-2004 03:09:53	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	9720	No
GOM_TRA_1PNPDE20040109_031121_000000432023_00147_09720_0036.N1	09-JAN-2004 03:11:21	Dark	42.500	179	24Omi2CMa	3.0320	24000.	85	9720	No
GOM_TRA_1PNPDE20040109_031340_000000522023_00147_09720_0000.N1	09-JAN-2004 03:13:40	Dark	51.500	1	9Alp CMa	-1.4400	11000.	103	9720	No
GOM_TRA_1PNPDE20040109_031650_000000522023_00147_09720_0001.N1	09-JAN-2004 03:16:50	Dark	51.500	7	19Bet Ori	0.10000	14000.	103	9720	No
GOM_TRA_1PNPDE20040109_031835_000000422023_00147_09720_0002.N1	09-JAN-2004 03:18:35	Dark	41.500	30	46Eps Ori	1.6940	30000.	83	9720	No
GOM_TRA_1PNPDE20040109_032055_000000532023_00147_09720_0003.N1	09-JAN-2004 03:20:55	Dark	53.000	14	58Alp Ori	0.87000	3000.0	106	9720	No
GOM_TRA_1PNPDE20040109_032345_000000492023_00147_09720_0004.N1	09-JAN-2004 03:23:45	Dark	48.500	44	24Gam Gem	1.9280	11000.	97	9720	No
GOM_TRA_1PNPDE20040109_032526_000000472023_00147_09720_0005.N1	09-JAN-2004 03:25:26	Bright	47.000	151	13Mu Gem	2.8900	3000.0	94	9720	No
GOM_TRA_1PNPDE20040109_032659_000000412023_00147_09720_0006.N1	09-JAN-2004 03:26:59	Bright	40.500	28	12Bet Tau	1.6500	15200.	81	9720	No
GOM_TRA_1PNPDE20040109_032824_000000412023_00147_09720_0007.N1	09-JAN-2004 03:28:24	Bright	41.000	114	3Iot Aur	2.6930	4600.0	82	9720	No
GOM_TRA_1PNPDE20040109_032957_000000502023_00147_09720_0008.N1	09-JAN-2004 03:29:57	Bright	49.500	24	66Alp Gem	1.5800	10200.	99	9720	No
GOM_TRA_1PNPDE20040109_033143_000000392023_00147_09720_0009.N1	09-JAN-2004 03:31:43	Bright	38.500	42	34Bet Aur	1.9000	10200.	77	9720	No
GOM_TRA_1PNPDE20040109_033325_000000372023_00147_09720_0010.N1	09-JAN-2004 03:33:25	Bright	37.000	175	39Del Per	3.0100	19400.	74	9720	No
GOM_TRA_1PNPDE20040109_033541_000000392023_00147_09720_0011.N1	09-JAN-2004 03:35:41	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	9720	No
GOM_TRA_1PNPDE20040109_034408_000000372023_00147_09720_0012.N1	09-JAN-2004 03:44:08	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	9720	No

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



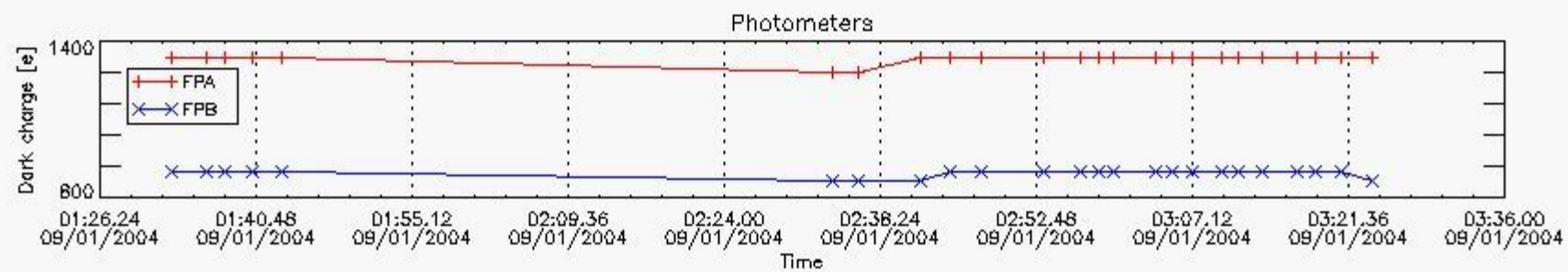
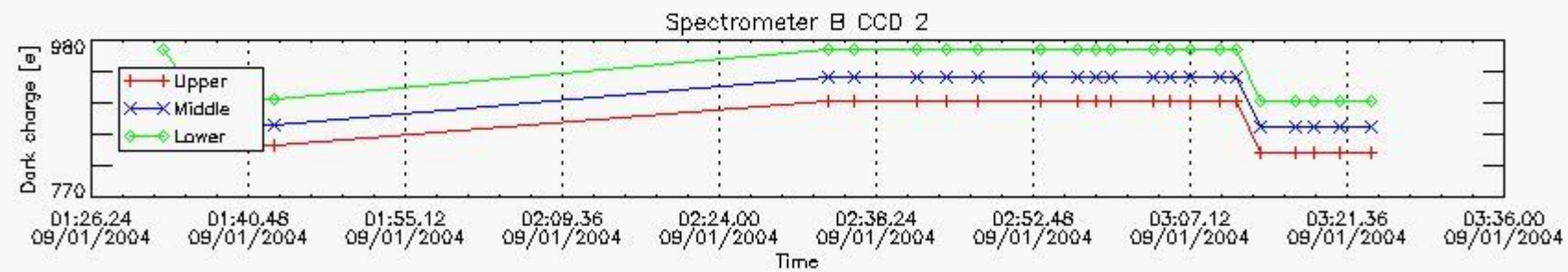
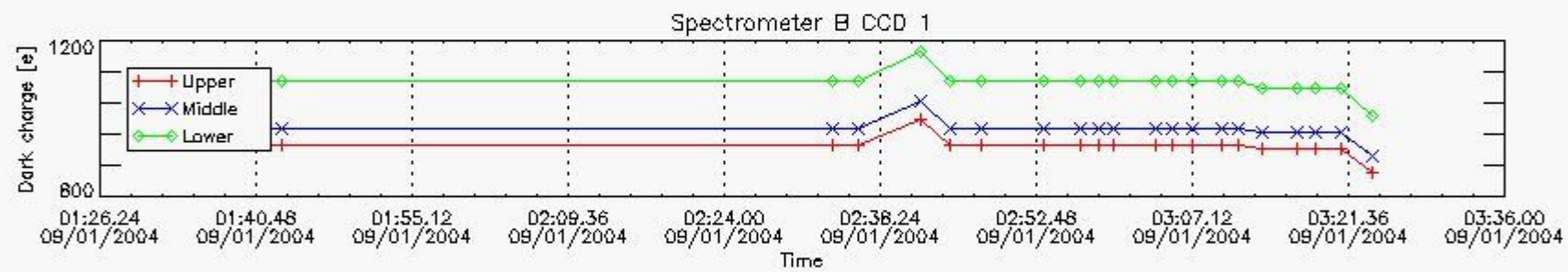
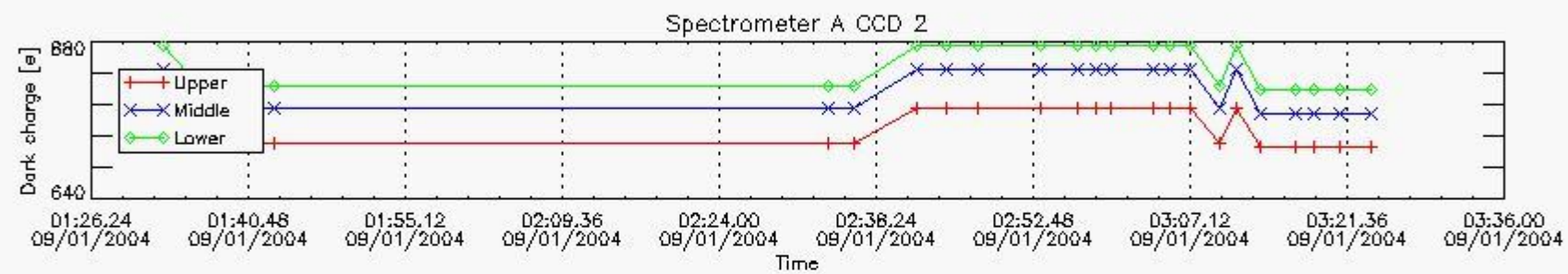
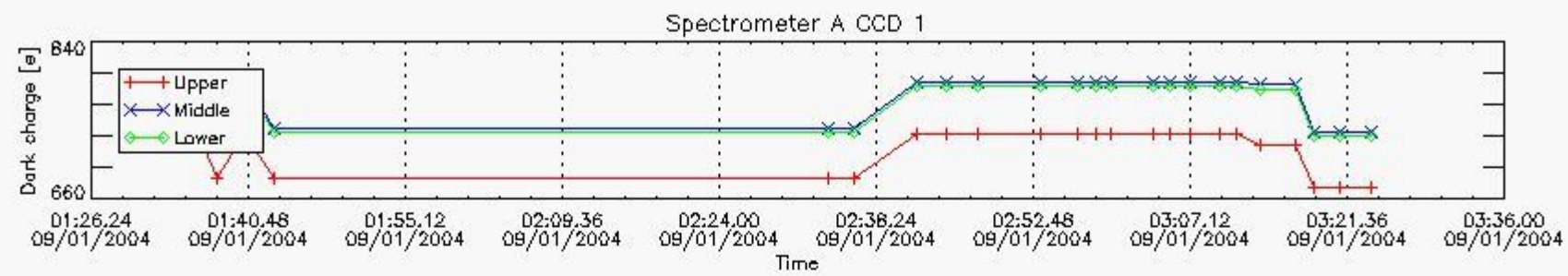
4. Overview of dark signal processing per product

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



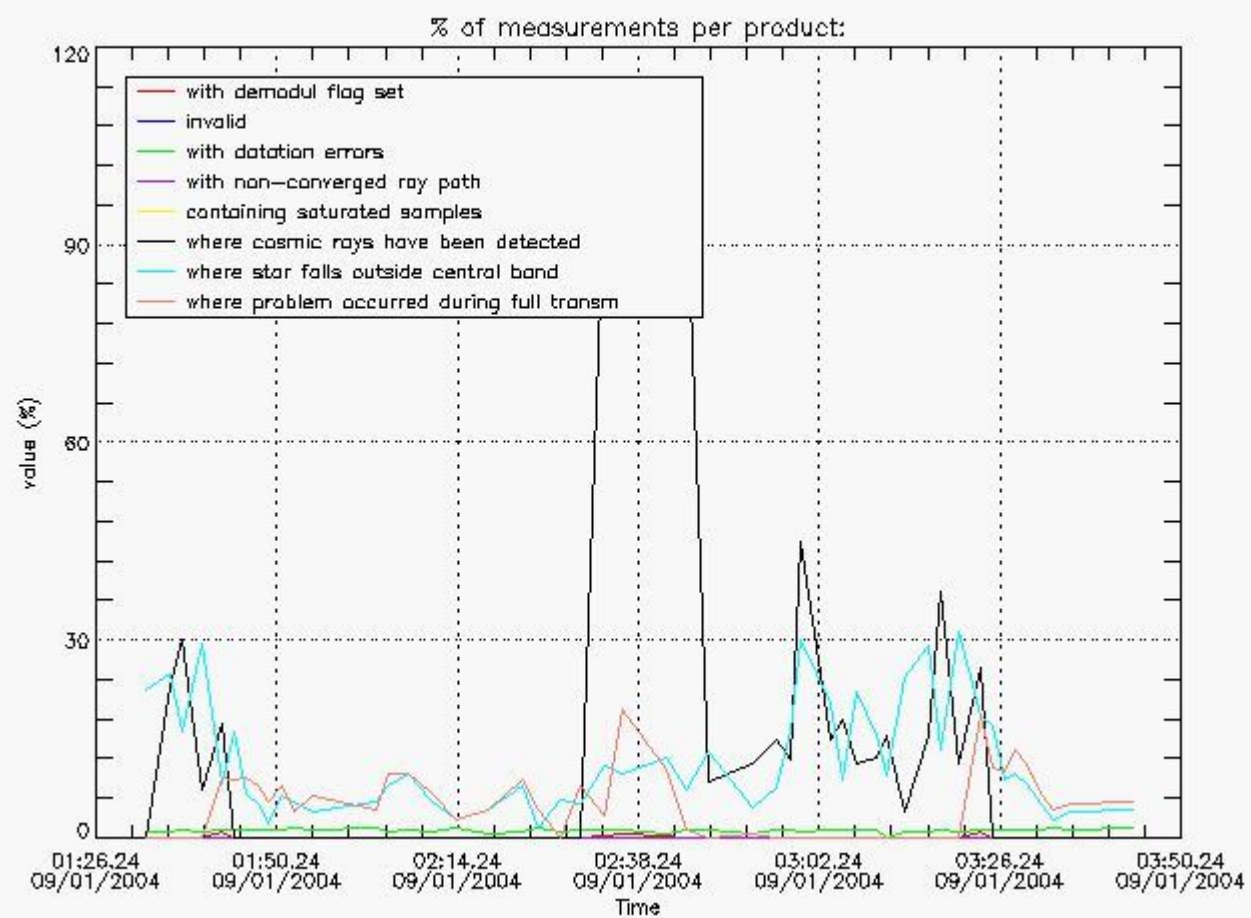
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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



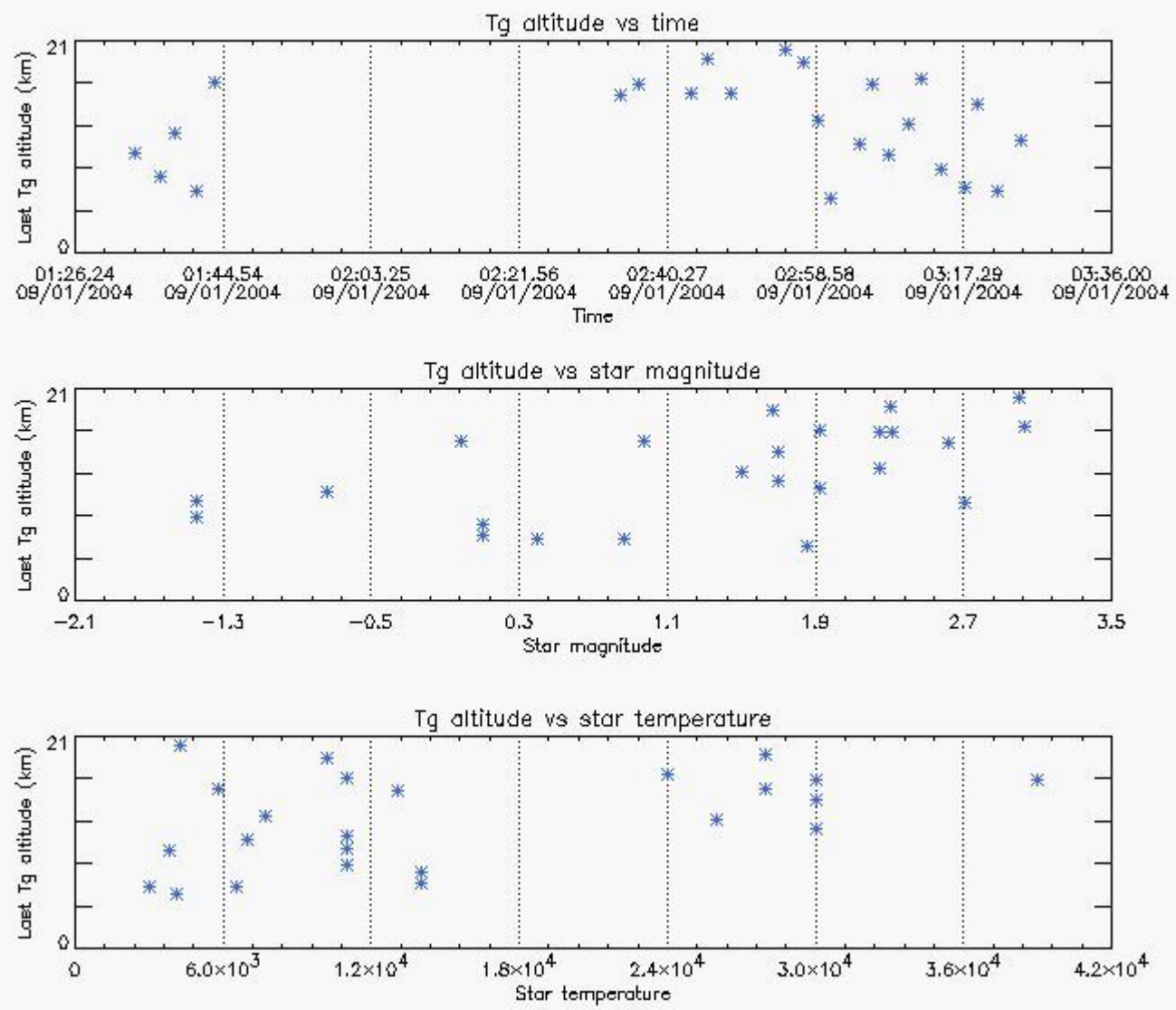
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	12.781	19.873
St. deviation:	4.6008	3.3667
Maximum:	20.182	25.178
Minimum:	5.3052	11.366
Number of data:	24.000	25.000

6.2 Plot for DARK limb products

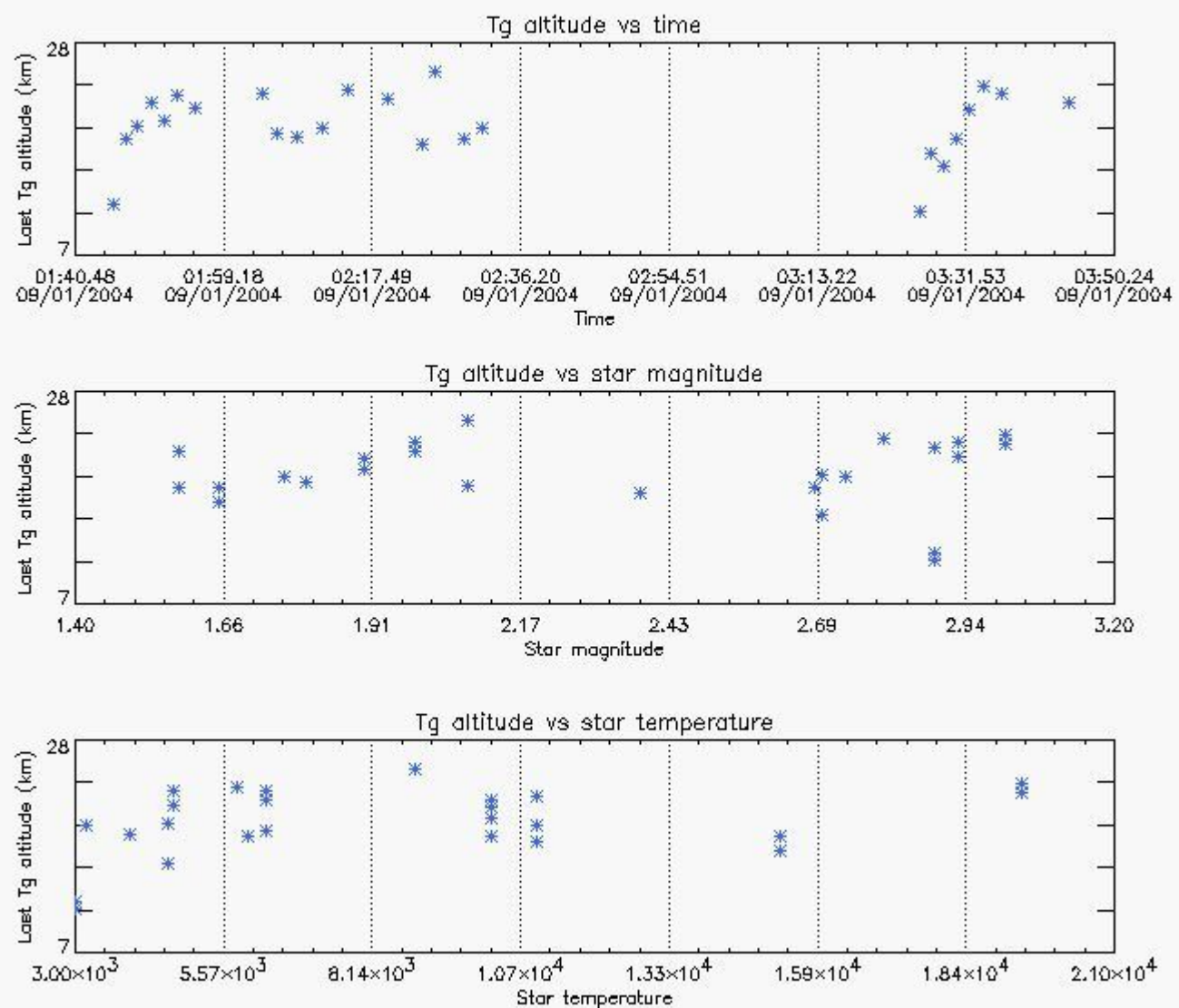
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



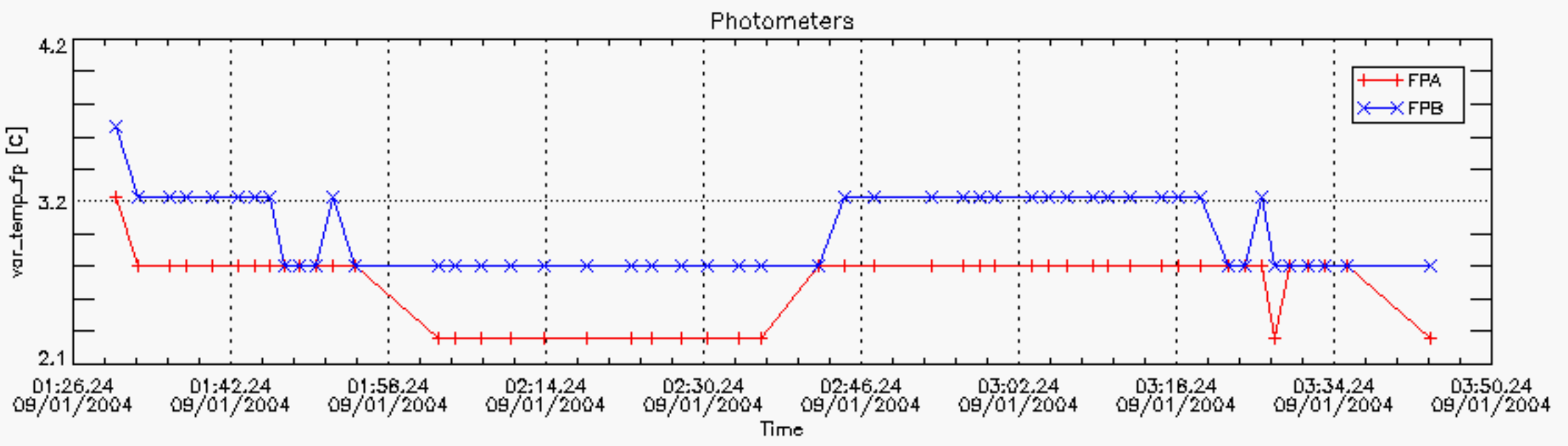
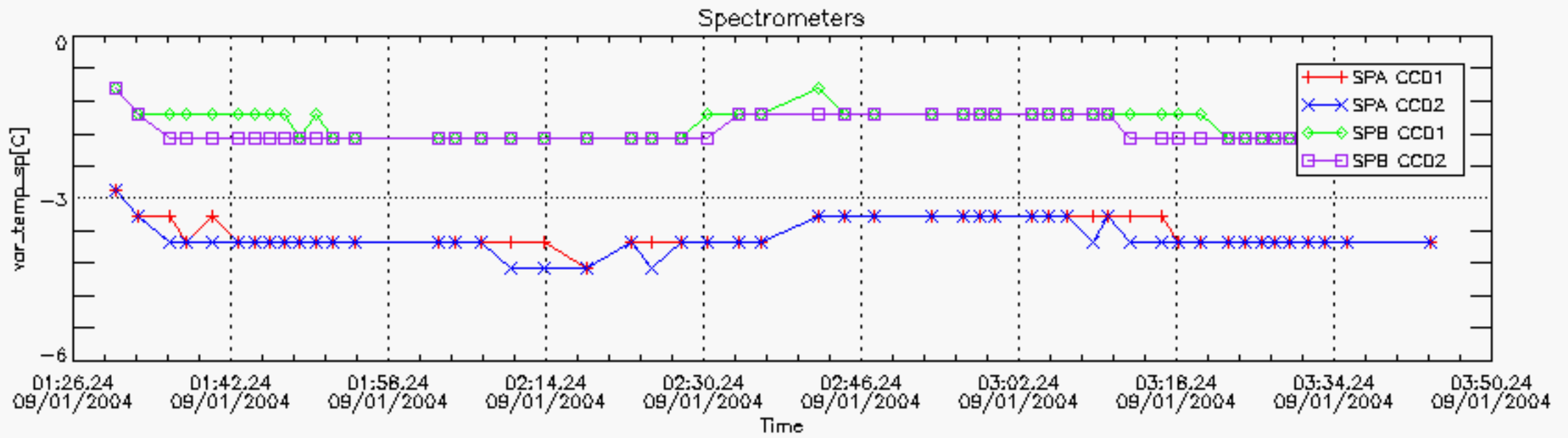
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

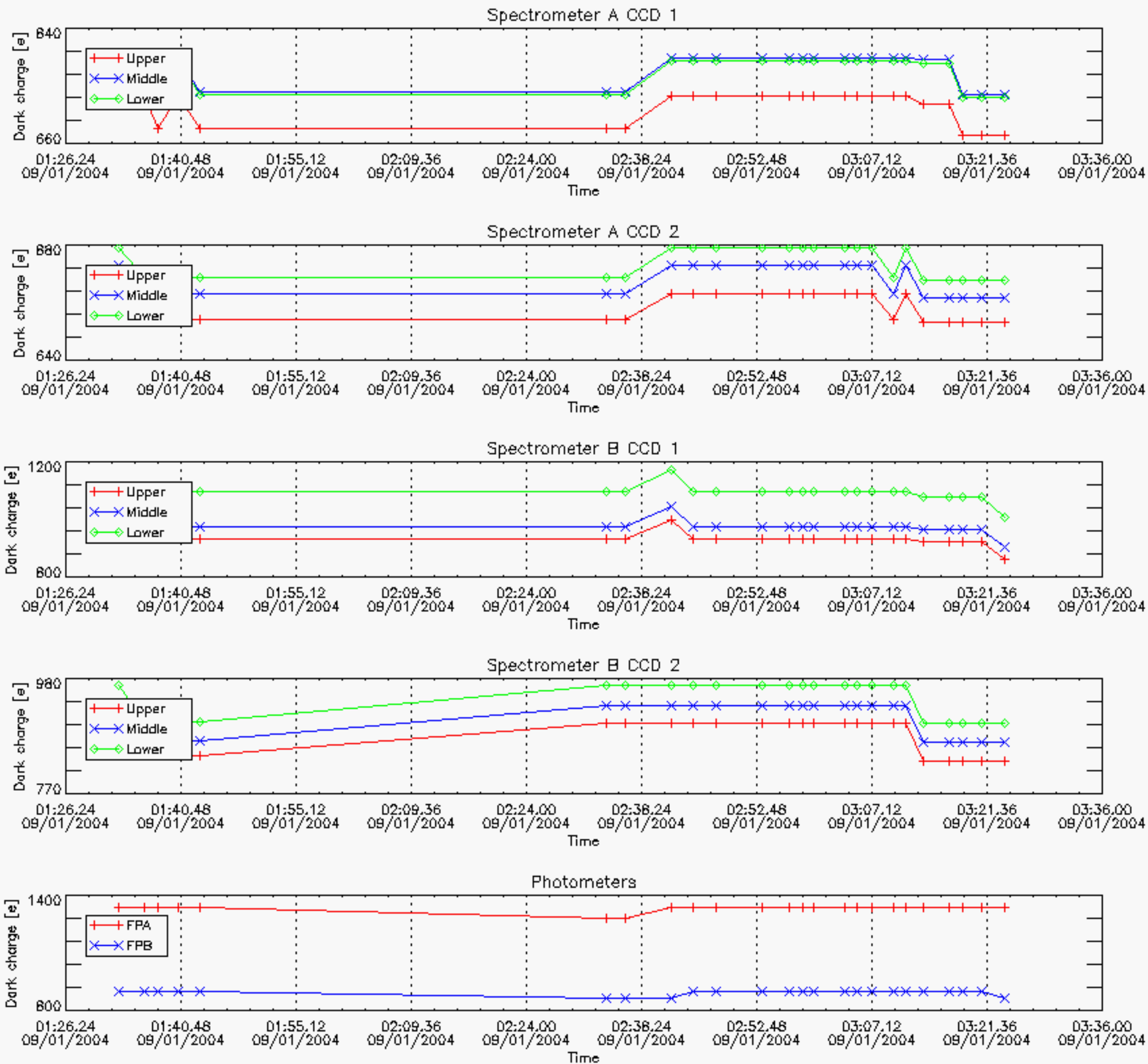
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

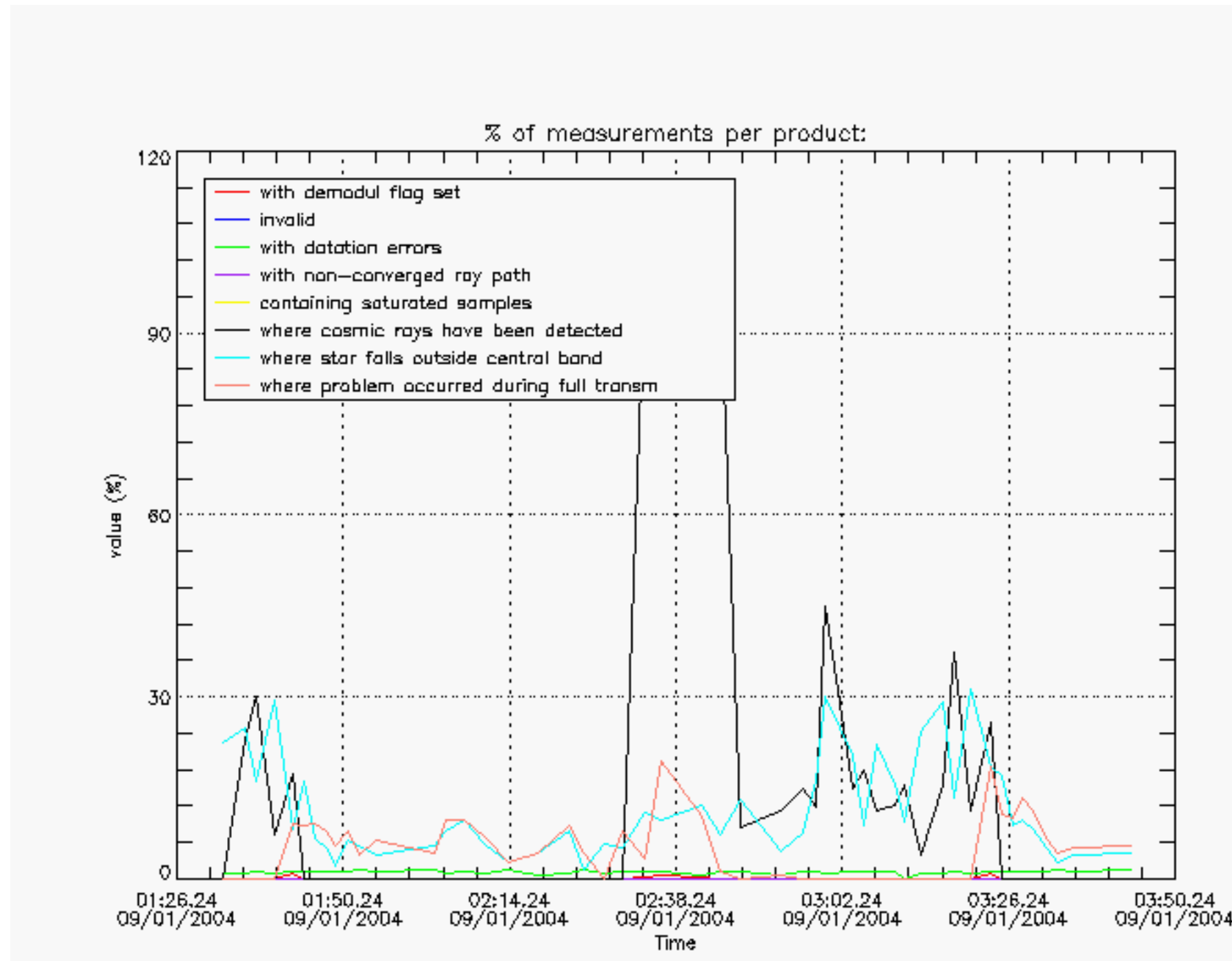
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.8	1447.0	1461.1	1447.0
St. deviation:	4.0827	5.7658	6.6659	7.7745
Maximum:	1503.0	1544.0	1510.0	1509.0
Minimum:	1449.0	1425.0	1442.0	1426.0
Number of data:	29550.	29550.	29150.	29150.



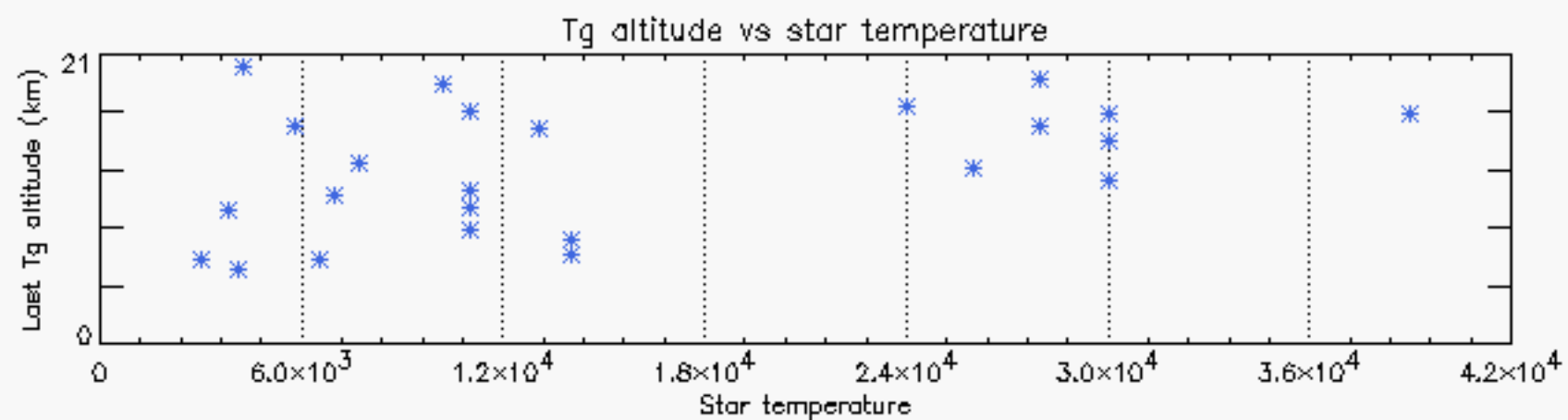
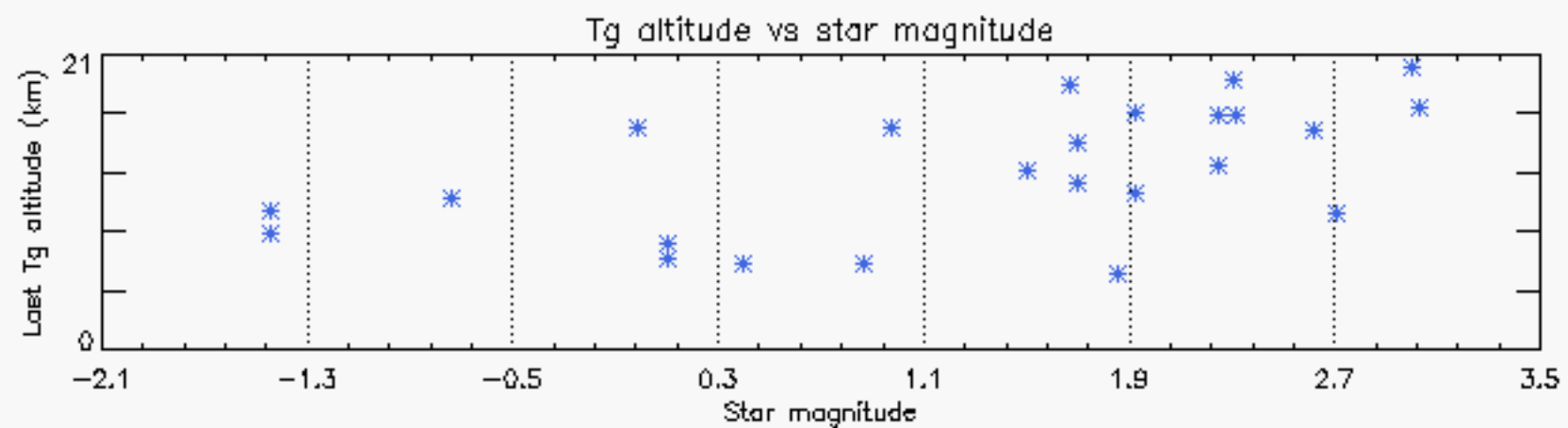
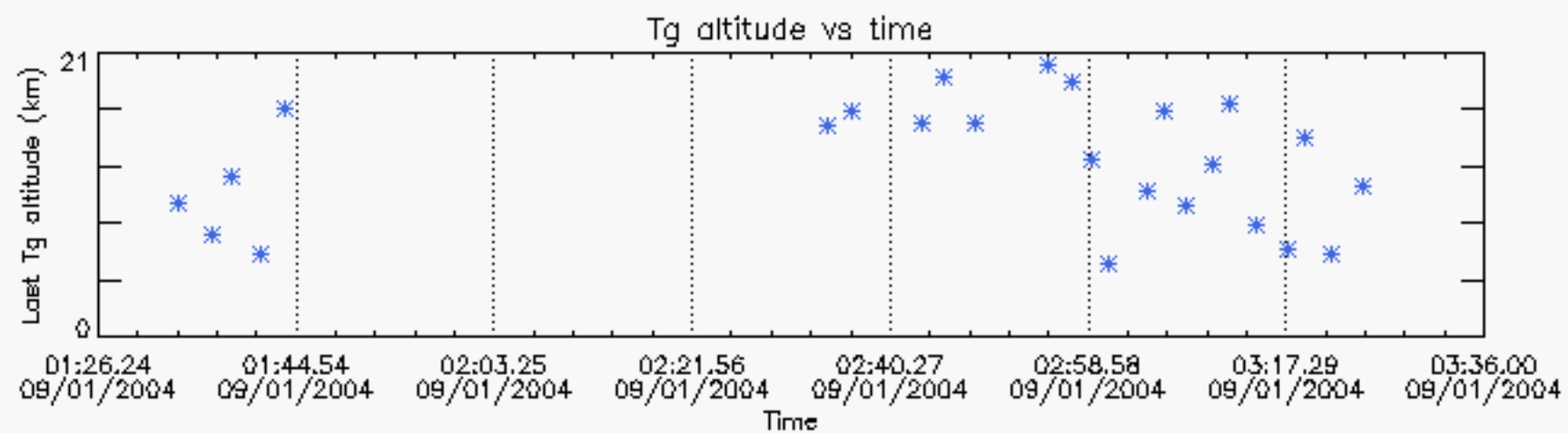




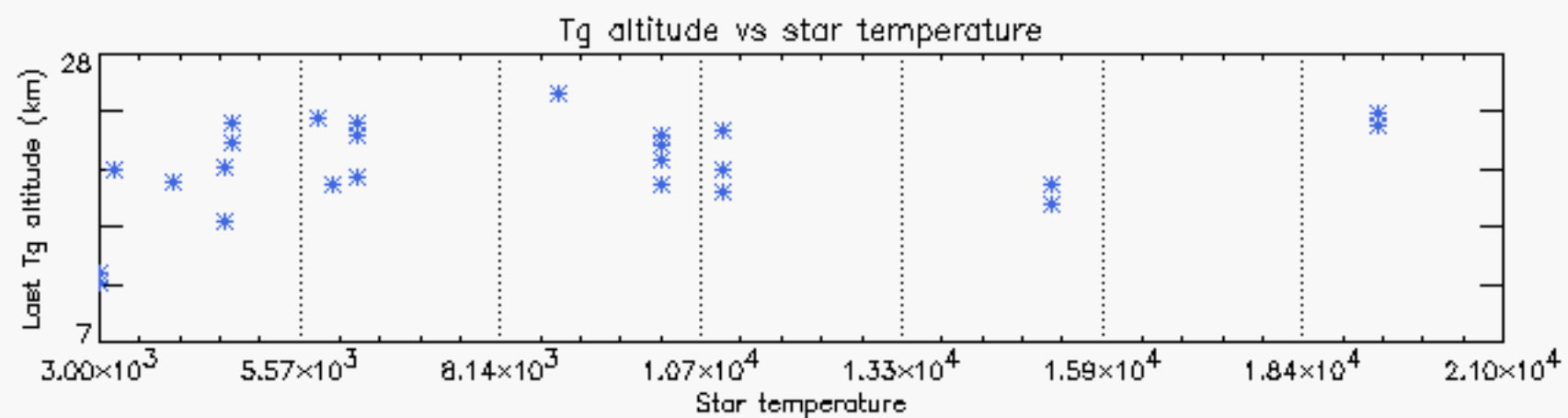
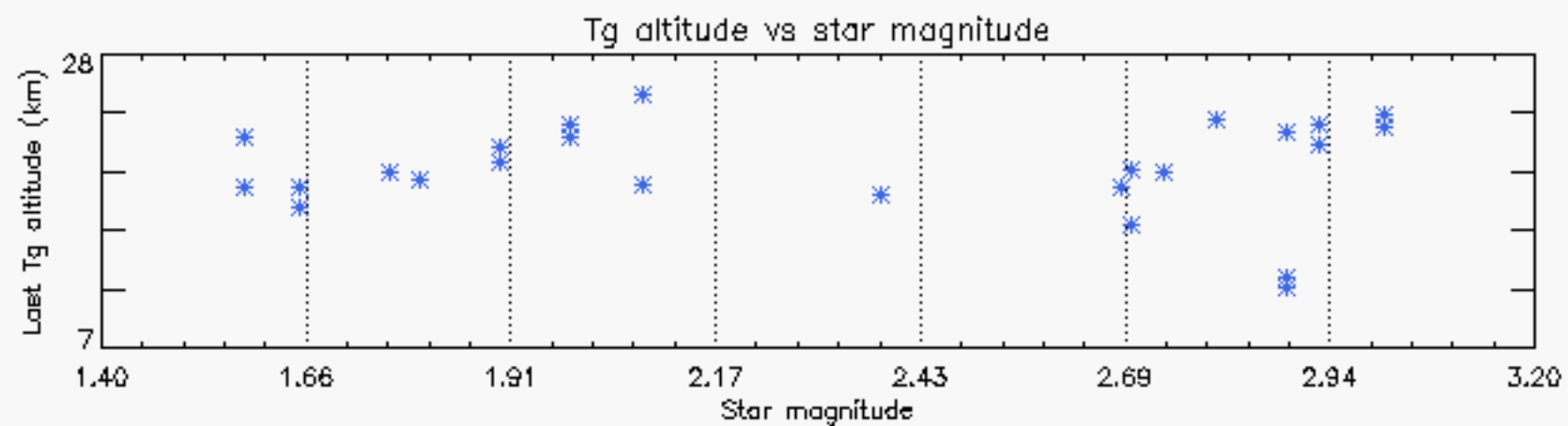
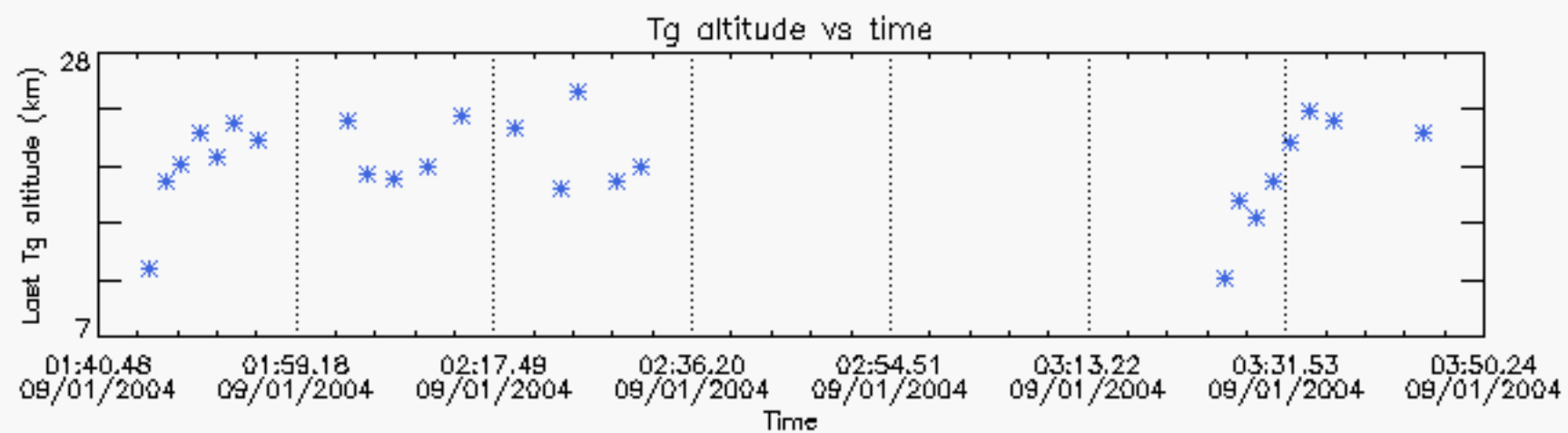




Tangent altitude at which the star is lost



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
17;	-1464.3;	01-JAN-2004	06:35:39;	Bright;		43.0;	83;		;	2.38;	11000;occ;	86;	0;	9607
18;	-1214.9;	01-JAN-2004	06:39:48;	Bright;		57.5;	111;	8Eta Boo	;	2.68;	6000;occ;	115;	0;	9607
19;	-1008.4;	01-JAN-2004	06:43:15;	Bright;		36.0;	120;	1Del Oph	;	2.73;	3200;occ;	72;	0;	9607
20;	-844.6;	01-JAN-2004	06:45:58;	Bright;		39.5;	104;	27Bet Lib	;	2.61;	13100;occ;	79;	0;	9607
21;	-685.5;	01-JAN-2004	06:48:37;	Dark	;	44.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	88;	0;	9607
22;	-483.7;	01-JAN-2004	06:51:59;	Dark	;	69.5;	15;	67Alp Vir	;	0.98;	28000;occ;	139;	0;	9607
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25;	-106.2;	01-JAN-2004	06:58:17;	Dark	;	42.0;	95;	Zet Cen	;	2.55;	26000;occ;	84;	0;	9607
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33;	998.0;	07-JAN-2004	09:08:46;	Dark	;	48.0;	2;	Alp Car	;	-0.74;	7000;occ;	96;	0;	9695
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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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37; 1364.6; 08-JAN-2004 07:02:39; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0; 9708
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3;	-4829.7;	08-JAN-2004	18:44:12;	Dark	;	41.5;	117;	Pi Pup	;	2.71;	3800;	occ;	83;	0;	9715
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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
16;	-3257.5;	08-JAN-2004	19:10:25;	Bright	;	37.0;	175;	39Del Per	;	3.01;	19400;	occ;	74;	0;	9715
17;	-3122.3;	08-JAN-2004	19:12:40;	Bright	;	37.5;	160;	23Gam Per	;	2.93;	4700;	occ;	75;	0;	9715
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19;	-2512.0;	08-JAN-2004	19:22:50;	Bright	;	46.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	92;	0;	9715
20;	-2359.9;	08-JAN-2004	19:25:22;	Bright	;	41.0;	60;	7Bet UMi	;	2.08;	3950;	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
25;	-1313.8;	08-JAN-2004	19:42:48;	Bright	;	36.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	73;	0;	9715
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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32;	34.3;	08-JAN-2004	20:05:16;	Dark	;	53.0;	4;	Alp1Cen	;	-0.01;	5800;	occ;	106;	0;	9716
33;	225.4;	08-JAN-2004	20:08:27;	Dark	;	42.5;	20;	Bet Cru	;	1.25;	30000;	occ;	85;	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
10;	-3835.4;	08-JAN-2004	20:41:22;	Dark	;	47.0;	44;	24Gam Gem	;	1.93;	11000;	occ;	94;	0;	9716
11;	-3734.7;	08-JAN-2004	20:43:03;	Bright	;	44.0;	151;	13Mu Gem	;	2.89;	3000;	occ;	88;	0;	9716
12;	-3641.7;	08-JAN-2004	20:44:36;	Bright	;	37.5;	28;	12Bet Tau	;	1.65;	15200;	occ;	75;	0;	9716
13;	-3556.3;	08-JAN-2004	20:46:02;	Bright	;	38.0;	114;	3Iot Aur	;	2.69;	4600;	occ;	76;	0;	9716
14;	-3461.9;	08-JAN-2004	20:47:36;	Bright	;	48.5;	24;	66Alp Gem	;	1.58;	10200;	occ;	97;	0;	9716
15;	-3357.0;	08-JAN-2004	20:49:21;	Bright	;	38.5;	42;	34Bet Aur	;	1.90;	10200;	occ;	77;	0;	9716
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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
10;-3244.1; 11-JAN-2004 07:32:11; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0; 9751
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12;-2612.7; 11-JAN-2004 07:42:42; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0; 9751
13;-2507.4; 11-JAN-2004 07:44:27; Bright; 56.0; 82; 48Bet UMa ; 2.37; 10600;occ; 112; 0; 9751
14;-2364.0; 11-JAN-2004 07:46:51; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0; 9751
15;-2193.9; 11-JAN-2004 07:49:41; Bright; 52.0; 32; 77Eps UMa ; 1.76; 11000;occ; 104; 0; 9751
16;-1968.4; 11-JAN-2004 07:53:26; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0; 9751
17;-1788.0; 11-JAN-2004 07:56:27; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0; 9751
18;-1683.5; 11-JAN-2004 07:58:11; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0; 9751
19;-1431.6; 11-JAN-2004 08:02:23; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0; 9751
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21;-1111.1; 11-JAN-2004 08:07:44; Bright; 78.5; 111; 8Eta Boo ; 2.68; 6000;occ; 157; 0; 9751
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
29; 501.4; 11-JAN-2004 08:34:36; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9752
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31; 701.3; 11-JAN-2004 08:37:56; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0; 9752
32; 782.6; 11-JAN-2004 08:39:17; Dark ; 53.0; 41; Eps Car ; 1.86; 4100;occ; 106; 0; 9752
33; 1010.7; 11-JAN-2004 08:43:05; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0; 9752
34; 1110.4; 11-JAN-2004 08:44:45; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0; 9752
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
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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
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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
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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
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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
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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
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38;	1461.4;	11-JAN-2004	12:11:48;	Dark	;	43.0;	179;	240mi2CMA	;	3.03;	24000;occ;	86;	0;	9754

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3;	-4573.6;	11-JAN-2004	17:13:37;	Dark	;	41.5;	179;	240mi2CMA	;	3.03;	24000;occ;	83;	0;	9757
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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
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12;	-3361.7;	11-JAN-2004	17:33:48;	Bright;		37.5;	42;	34Bet Aur	;	1.90;	10200;occ;	75;	0;	9757
13;	-3242.3;	11-JAN-2004	17:35:48;	Bright;		37.5;	175;	39Del Per	;	3.01;	19400;occ;	75;	0;	9757
14;	-3103.8;	11-JAN-2004	17:38:06;	Bright;		37.0;	160;	23Gam Per	;	2.93;	4700;occ;	74;	0;	9757
15;	-2612.7;	11-JAN-2004	17:46:18;	Bright;		39.0;	49;	1Alp UMi	;	1.99;	6300;occ;	78;	0;	9757
16;	-2512.9;	11-JAN-2004	17:47:57;	Bright;		55.0;	82;	48Bet UMA	;	2.37;	10600;occ;	110;	0;	9757
17;	-2364.7;	11-JAN-2004	17:50:26;	Bright;		36.0;	60;	7Bet UMi	;	2.08;	3950;occ;	72;	0;	9757
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
20;	-1786.7;	11-JAN-2004	18:00:04;	Bright;		38.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	76;	0;	9757
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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 37; 784.4; 11-JAN-2004 18:42:55; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0; 9758
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 18; -1430.6; 11-JAN-2004 09:43:00; Bright; 51.5; 83; ; 2.38; 11000;occ; 103; 0; 9752
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9;	-3846.9;	27-JAN-2004	19:03:25;	Bright;		40.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	80;	0;	9987
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26;	-428.7;	27-JAN-2004	20:00:23;	Dark	;	50.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	100;	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
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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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14;	-2132.0;	28-JAN-2004	07:16:11;	Bright;		39.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	79;	0;	9994
15;	-1951.4;	28-JAN-2004	07:19:12;	Bright;		39.5;	130;	23Bet	Dra	;	2.80;	5800;	occ;	79;	0;	9994
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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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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21;	-504.2;	28-JAN-2004	07:43:19;	Dark	;	57.0;	16;	21Alp	Sco	;	1.02;	3000;	occ;	114;	0;	9994
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23;	-348.0;	28-JAN-2004	07:45:55;	Dark	;	46.0;	40;	The	Sco	;	1.86;	7100;	occ;	92;	0;	9994
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32;	801.8;	28-JAN-2004	08:05:05;	Dark	;	45.0;	71;	Iot	Car	;	2.25;	7700;	occ;	90;	0;	9995
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6;	-3844.5;	29-JAN-2004	14:39:01;	Bright	;	40.5;	44;	24Gam	Gem	;	1.93;	11000;	occ;	81;	0;	10013
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8;	-3636.8;	29-JAN-2004	14:42:29;	Bright	;	43.5;	17;	78Bet	Gem	;	1.16;	4500;	occ;	87;	0;	10013
9;	-3479.6;	29-JAN-2004	14:45:06;	Bright	;	38.5;	107;	37The	Aur	;	2.65;	11000;	occ;	77;	0;	10013
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7;	-3843.9;	29-JAN-2004	16:19:38;	Bright	;	39.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	78;	0;	10014
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13;	-2610.6;	29-JAN-2004	16:40:11;	Bright	;	38.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	76;	0;	10014
14;	-2414.3;	29-JAN-2004	16:43:27;	Bright	;	42.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	85;	0;	10014
15;	-2259.5;	29-JAN-2004	16:46:02;	Bright	;	42.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	85;	0;	10014
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20;	-1329.3;	29-JAN-2004	17:01:32;	Bright	;	89.0;	83;			;	2.38;	11000;	occ;	178;	0;	10014
21;	-1124.2;	29-JAN-2004	17:04:57;	Bright	;	38.5;	126;	60Bet	Oph	;	2.77;	4250;	occ;	77;	0;	10014
22;	-936.6;	29-JAN-2004	17:08:05;	Dark	;	63.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	126;	0;	10014
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