

GOMOS Daily Report 29-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	30JAN2004 06:53:44
Data source version	<Any version>
Start time of products	29-JAN-2004 (29JAN2004 00:00:00)
Stop time of products	30-JAN-2004 (30JAN2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	48
Nb of prods with errors	0

2. Summary of products arrived in PCF

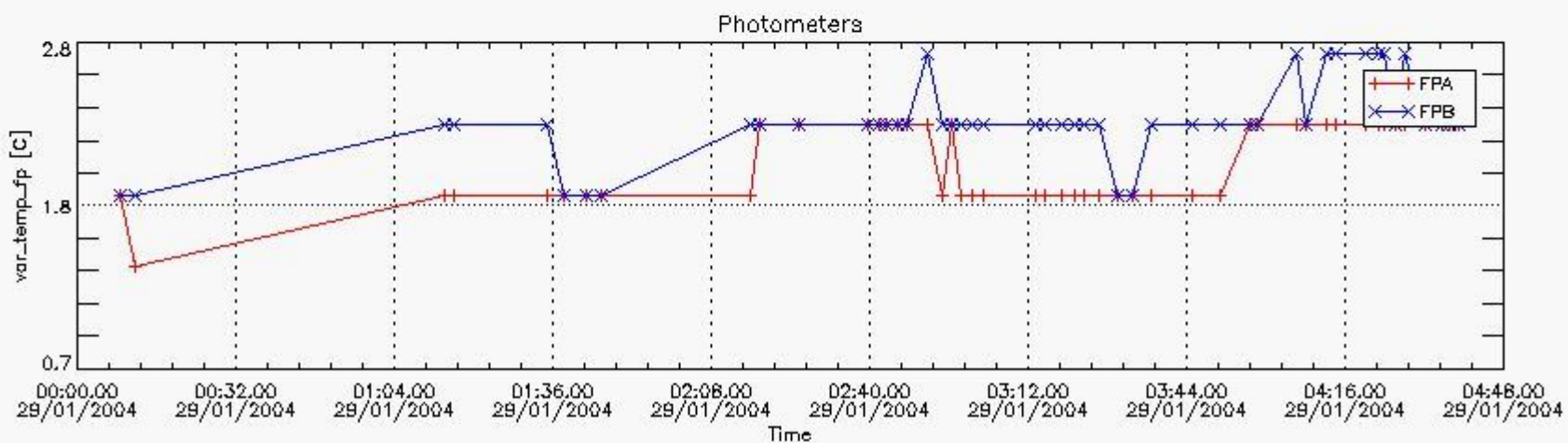
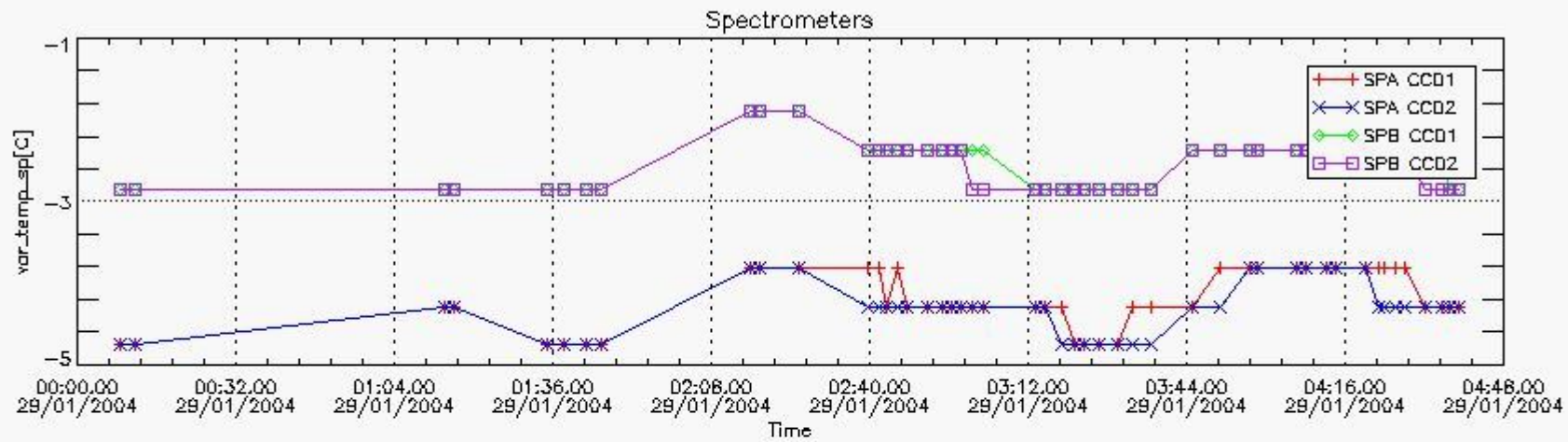
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040129_000842_000000362023_00431_10004_0017.N1	29-JAN-2004 00:08:42	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	10004	No
GOM_TRA_1PNPDE20040129_001145_000000602023_00431_10004_0018.N1	29-JAN-2004 00:11:45	Bright	60.000	133	40Zet Her	2.8070	6000.0	120	10004	No
GOM_TRA_1PNPDE20040129_011414_000000402023_00432_10005_0005.N1	29-JAN-2004 01:14:14	Bright	39.500	44	24Gam Gem	1.9280	11000.	79	10005	No
GOM_TRA_1PNPDE20040129_011601_000000412023_00432_10005_0006.N1	29-JAN-2004 01:16:01	Bright	41.000	151	13Mu Gem	2.8900	3000.0	82	10005	No
GOM_TRA_1PNPDE20040129_013448_000000352023_00432_10005_0011.N1	29-JAN-2004 01:34:48	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	10005	No
GOM_TRA_1PNPDE20040129_013806_000000422023_00432_10005_0012.N1	29-JAN-2004 01:38:06	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	10005	No
GOM_TRA_1PNPDE20040129_014245_000000402023_00432_10005_0014.N1	29-JAN-2004 01:42:45	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	10005	No
GOM_TRA_1PNPDE20040129_014548_000000402023_00432_10005_0015.N1	29-JAN-2004 01:45:48	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	10005	No
GOM_TRA_1PNPDE20040129_021601_000000452023_00432_10005_0024.N1	29-JAN-2004 02:16:01	Dark	45.000	141	Bet Ara	2.8400	4600.0	90	10005	No
GOM_TRA_1PNPDE20040129_021751_000000452023_00432_10005_0025.N1	29-JAN-2004 02:17:51	Dark	45.000	109	Bet Lup	2.6770	26000.	90	10005	No
GOM_TRA_1PNPDE20040129_022540_000000422023_00433_10006_0026.N1	29-JAN-2004 02:25:40	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	10006	No
GOM_TRA_1PNPDE20040129_023934_000000432023_00433_10006_0033.N1	29-JAN-2004 02:39:34	Dark	43.000	117	Pi Pup	2.7060	3800.0	86	10006	No
GOM_TRA_1PNPDE20040129_024202_000000412023_00433_10006_0034.N1	29-JAN-2004 02:42:02	Dark	41.000	23	21Eps CMa	1.5020	26000.	82	10006	No
GOM_TRA_1PNPDE20040129_024325_000000412023_00433_10006_0035.N1	29-JAN-2004 02:43:25	Dark	40.500	179	24Omi2CMa	3.0320	24000.	81	10006	No
GOM_TRA_1PNPDE20040129_024531_000000512023_00433_10006_0001.N1	29-JAN-2004 02:45:31	Dark	51.000	1	9Alp CMa	-1.4400	11000.	102	10006	No
GOM_TRA_1PNPDE20040129_024726_000000722023_00433_10006_0002.N1	29-JAN-2004 02:47:26	Dark	71.500	48	30Alp Hya	1.9770	4100.0	143	10006	No
GOM_TRA_1PNPDE20040129_025130_000000542023_00433_10006_0003.N1	29-JAN-2004 02:51:30	Dark	53.500	8	10Alp CMi	0.40000	6500.0	107	10006	No
GOM_TRA_1PNPDE20040129_025449_000000402023_00433_10006_0004.N1	29-JAN-2004 02:54:49	Bright	40.000	44	24Gam Gem	1.9280	11000.	80	10006	No
GOM_TRA_1PNPDE20040129_025638_000000402023_00433_10006_0005.N1	29-JAN-2004 02:56:38	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	10006	No
GOM_TRA_1PNPDE20040129_025819_000000452023_00433_10006_0006.N1	29-JAN-2004 02:58:19	Bright	45.000	17	78Bet Gem	1.1610	4500.0	90	10006	No
GOM_TRA_1PNPDE20040129_030053_000000382023_00433_10006_0007.N1	29-JAN-2004 03:00:53	Bright	37.500	107	37The Aur	2.6490	11000.	75	10006	No
GOM_TRA_1PNPDE20040129_030300_000000382023_00433_10006_0008.N1	29-JAN-2004 03:03:00	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	10006	No
GOM_TRA_1PNPDE20040129_031336_000000482023_00433_10006_0009.N1	29-JAN-2004 03:13:36	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	10006	No
GOM_TRA_1PNPDE20040129_031524_000000352023_00433_10006_0010.N1	29-JAN-2004 03:15:24	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	10006	No
GOM_TRA_1PNPDE20040129_031842_000000422023_00433_10006_0011.N1	29-JAN-2004 03:18:42	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	10006	No
GOM_TRA_1PNPDE20040129_032114_000000402023_00433_10006_0012.N1	29-JAN-2004 03:21:14	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	10006	No
GOM_TRA_1PNPDE20040129_032320_000000422023_00433_10006_0013.N1	29-JAN-2004 03:23:20	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	10006	No
GOM_TRA_1PNPDE20040129_032623_000000372023_00433_10006_0014.N1	29-JAN-2004 03:26:23	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	10006	No
GOM_TRA_1PNPDE20040129_032953_000000372023_00433_10006_0015.N1	29-JAN-2004 03:29:53	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	10006	No
GOM_TRA_1PNPDE20040129_033257_000000422023_00433_10006_0016.N1	29-JAN-2004 03:32:57	Bright	41.500	133	40Zet Her	2.8070	6000.0	83	10006	No
GOM_TRA_1PNPDE20040129_033640_000000832023_00433_10006_0017.N1	29-JAN-2004 03:36:40	Bright	83.000	83		2.3780	11000.	166	10006	No
GOM_TRA_1PNPDE20040129_034502_000002552023_00433_10006_0019.N1	29-JAN-2004 03:45:02	Dark	255.00	3	16Alp Boo	-0.050000	4250.0	510	10006	No
GOM_TRA_1PNPDE20040129_035038_000000522023_00433_10006_0020.N1	29-JAN-2004 03:50:38	Dark	52.000	16	21Alp Sco	1.0200	3000.0	104	10006	No
GOM_TRA_1PNPDE20040129_035638_000000442023_00433_10006_0023.N1	29-JAN-2004 03:56:38	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	10006	No
GOM_TRA_1PNPDE20040129_035828_000000472023_00433_10006_0024.N1	29-JAN-2004 03:58:28	Dark	46.500	109	Bet Lup	2.6770	26000.	93	10006	No
GOM_TRA_1PNPDE20040129_040617_000000422023_00434_10007_0025.N1	29-JAN-2004 04:06:17	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	10007	No
GOM_TRA_1PNPDE20040129_040806_000000472023_00434_10007_0026.N1	29-JAN-2004 04:08:06	Dark	46.500	99	Del Cen	2.5750	26000.	93	10007	No
GOM_TRA_1PNPDE20040129_041220_000000432023_00434_10007_0028.N1	29-JAN-2004 04:12:20	Dark	42.500	71	lot Car	2.2460	7700.0	85	10007	No
GOM_TRA_1PNPDE20040129_041407_000000402023_00434_10007_0029.N1	29-JAN-2004 04:14:07	Dark	39.500	46	Del Vel	1.9540	10600.	79	10007	No
GOM_TRA_1PNPDE20040129_042011_000000472023_00434_10007_0032.N1	29-JAN-2004 04:20:11	Dark	47.000	117	Pi Pup	2.7060	3800.0	94	10007	No
GOM_TRA_1PNPDE20040129_042237_000000452023_00434_10007_0033.N1	29-JAN-2004 04:22:37	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	10007	No
GOM_TRA_1PNPDE20040129_042401_000000392023_00434_10007_0000.N1	29-JAN-2004 04:24:01	Dark	38.500	179	24Omi2CMa	3.0320	24000.	77	10007	No
GOM_TRA_1PNPDE20040129_042611_000000452023_00434_10007_0001.N1	29-JAN-2004 04:26:11	Dark	45.000	1	9Alp CMa	-1.4400	11000.	90	10007	No
GOM_TRA_1PNPDE20040129_042800_000000722023_00434_10007_0002.N1	29-JAN-2004 04:28:00	Dark	71.500	48	30Alp Hya	1.9770	4100.0	143	10007	No
GOM_TRA_1PNPDE20040129_043206_000000512023_00434_10007_0003.N1	29-JAN-2004 04:32:06	Dark	50.500	8	10Alp CMi	0.40000	6500.0	101	10007	No
GOM_TRA_1PNPDE20040129_043526_000000402023_00434_10007_0004.N1	29-JAN-2004 04:35:26	Bright	39.500	44	24Gam Gem	1.9280	11000.	79	10007	No
GOM_TRA_1PNPDE20040129_043714_000000412023_00434_10007_0005.N1	29-JAN-2004 04:37:14	Bright	41.000	151	13Mu Gem	2.8900	3000.0	82	10007	No
GOM_TRA_1PNPDE20040129_043855_000000432023_00434_10007_0006.N1	29-JAN-2004 04:38:55	Bright	43.000	17	78Bet Gem	1.1610	4500.0	86	10007	No

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



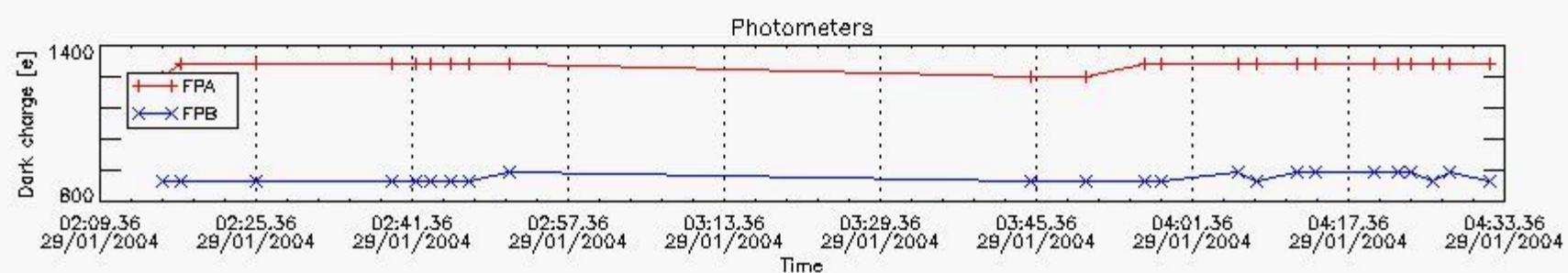
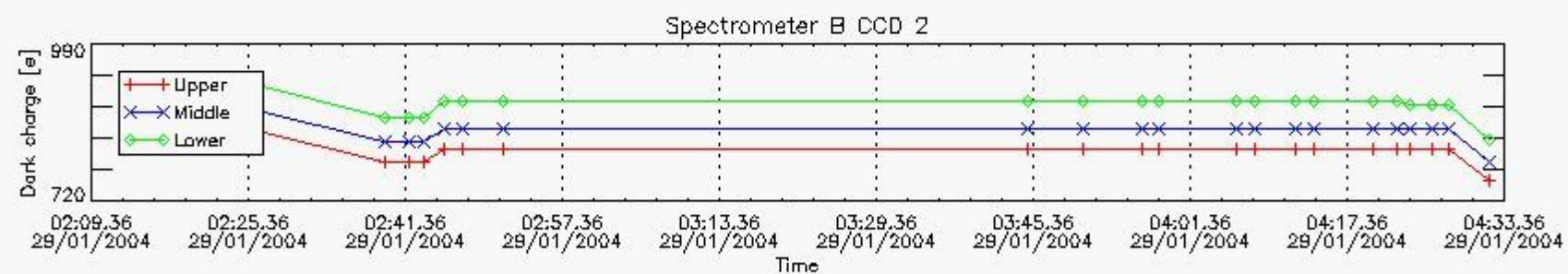
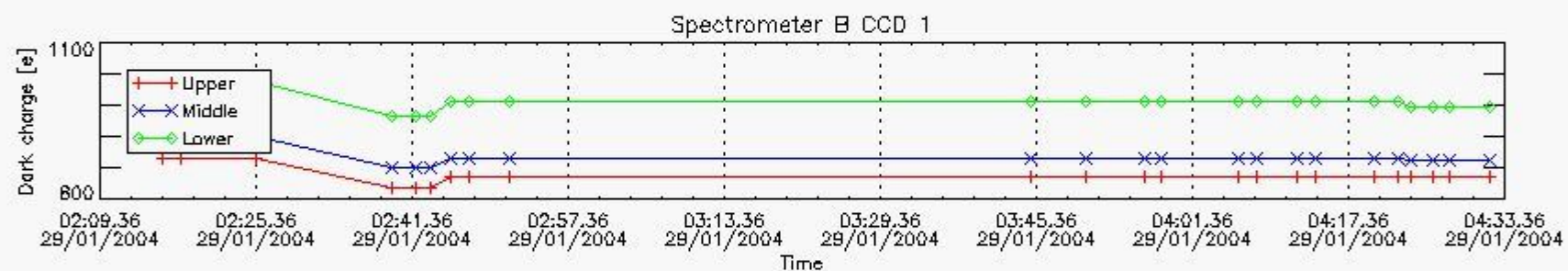
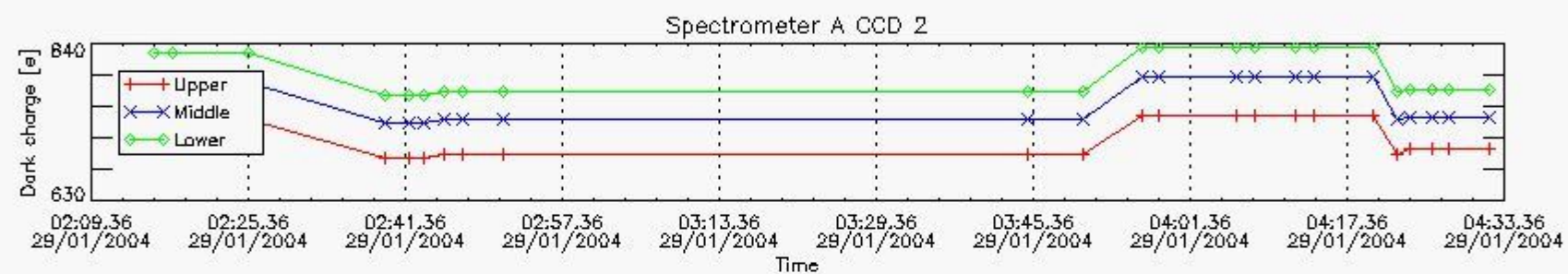
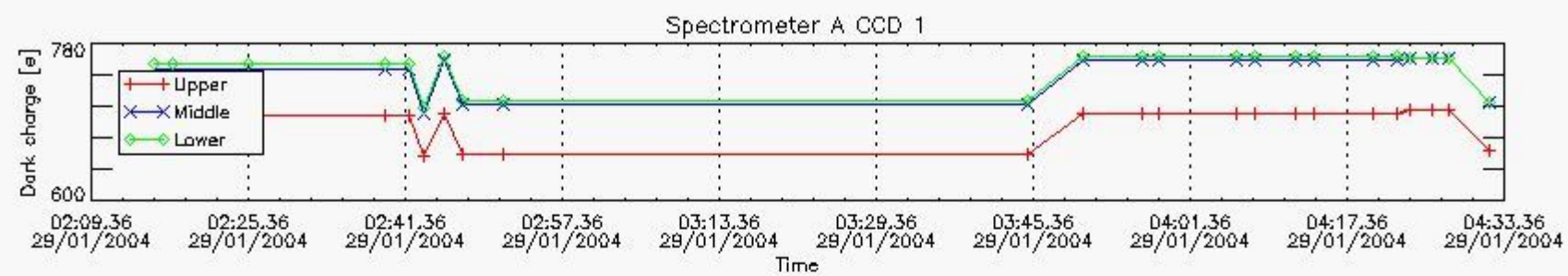
4. Overview of dark signal processing per product

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



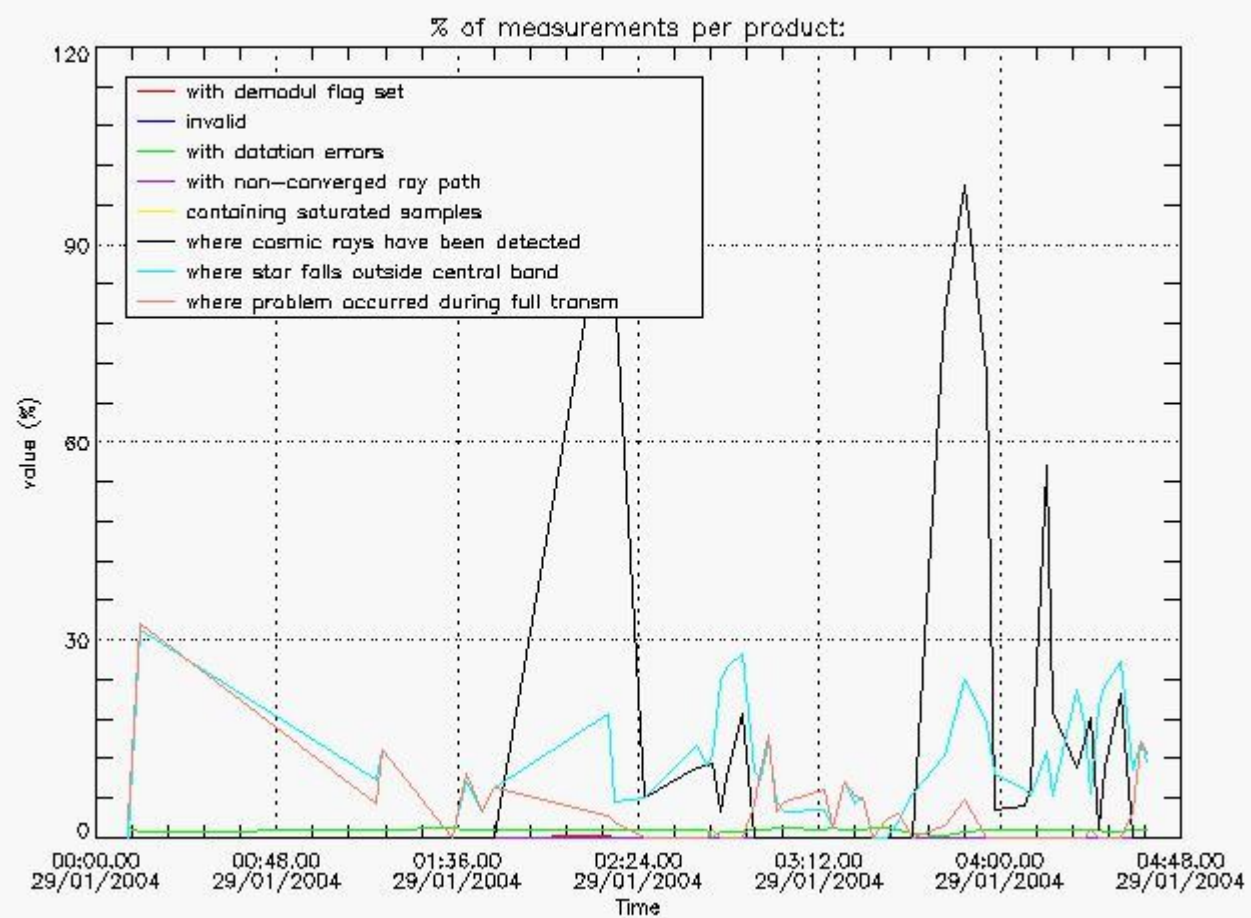
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

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



5.2 Plot quality information per product



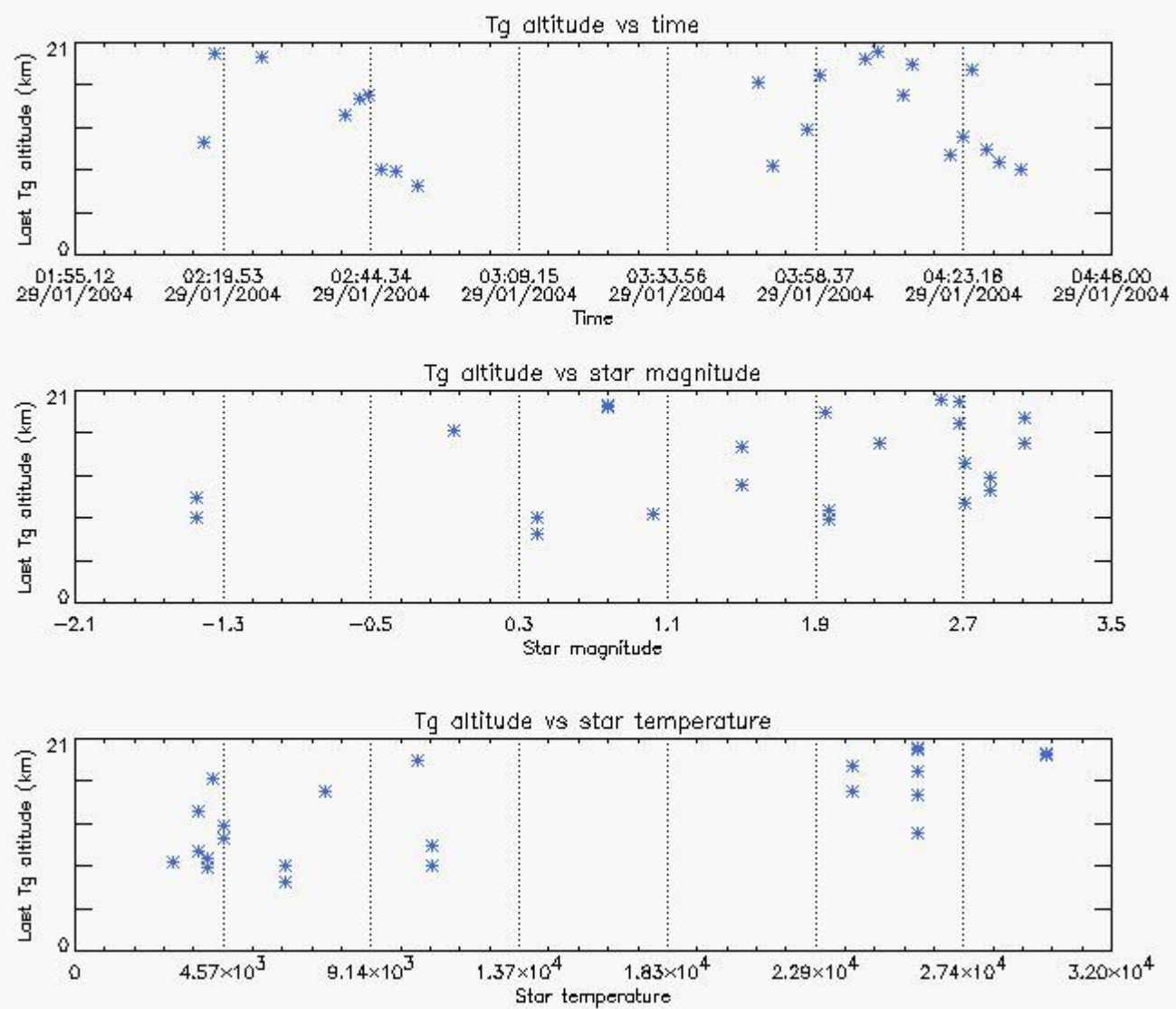
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.788	19.456
St. deviation:	4.5130	4.9152
Maximum:	20.072	27.281
Minimum:	6.9077	5.1029
Number of data:	23.000	25.000

6.2 Plot for DARK limb products

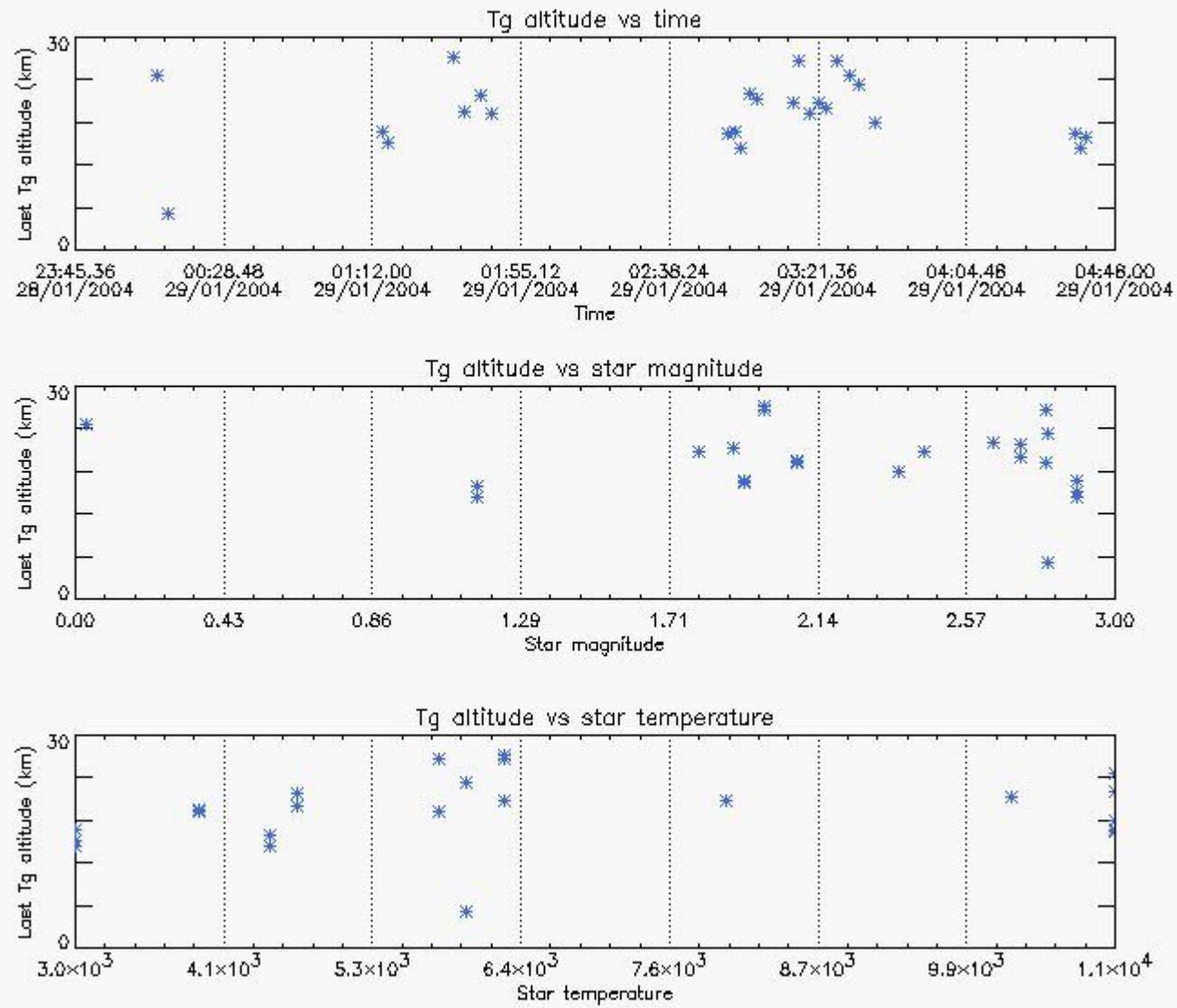
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



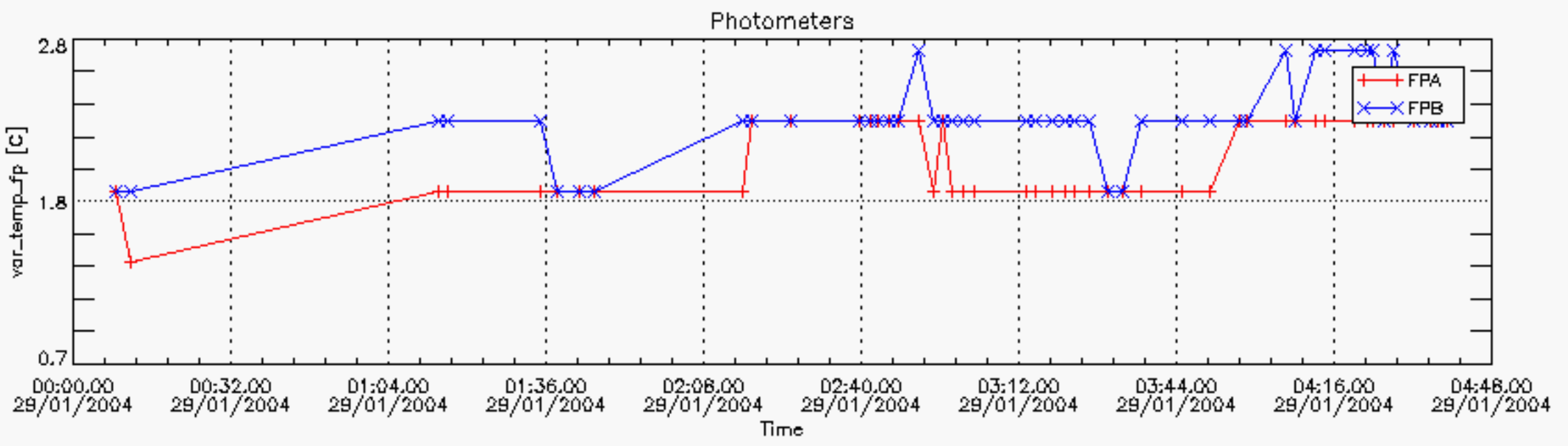
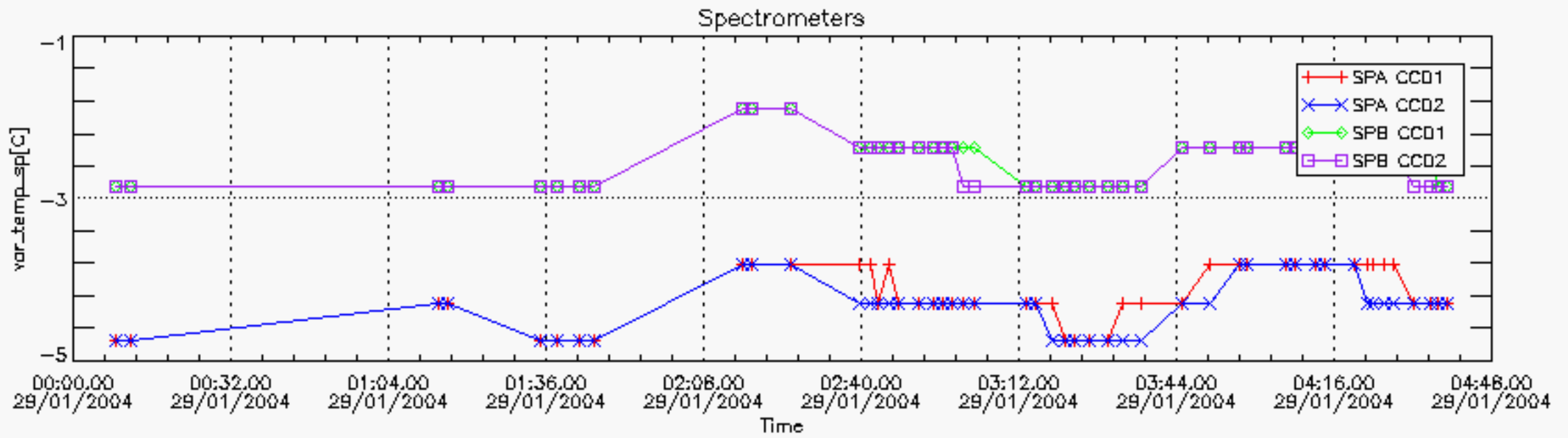
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

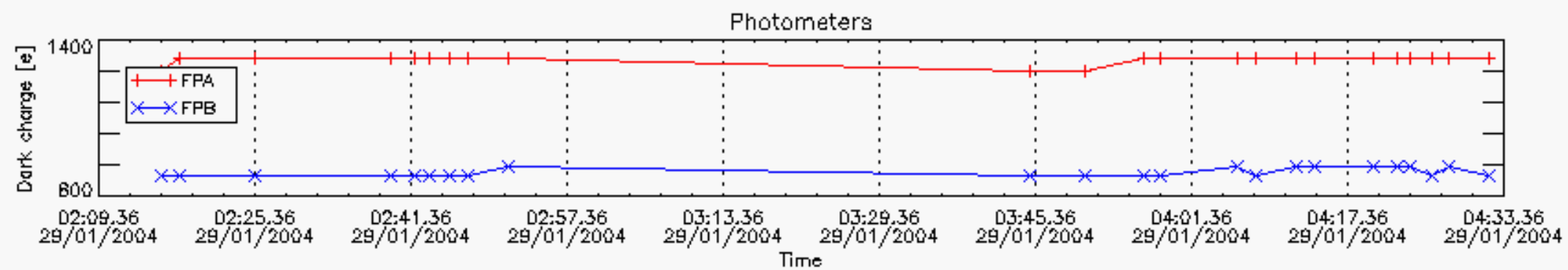
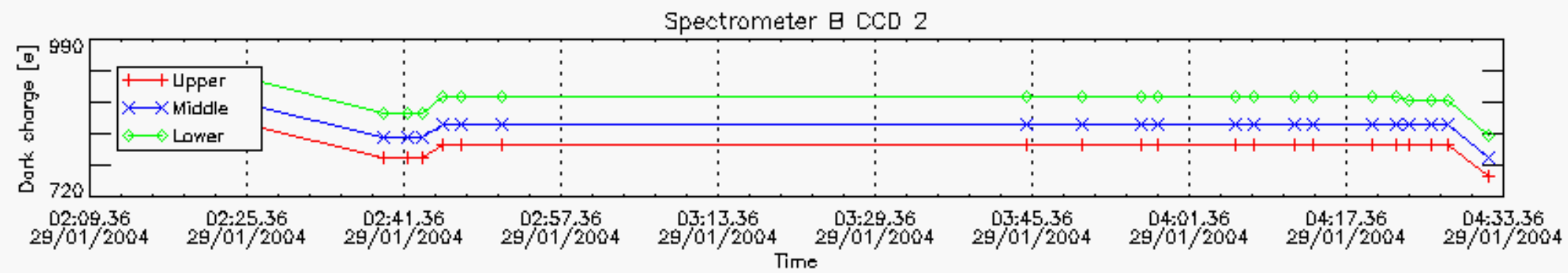
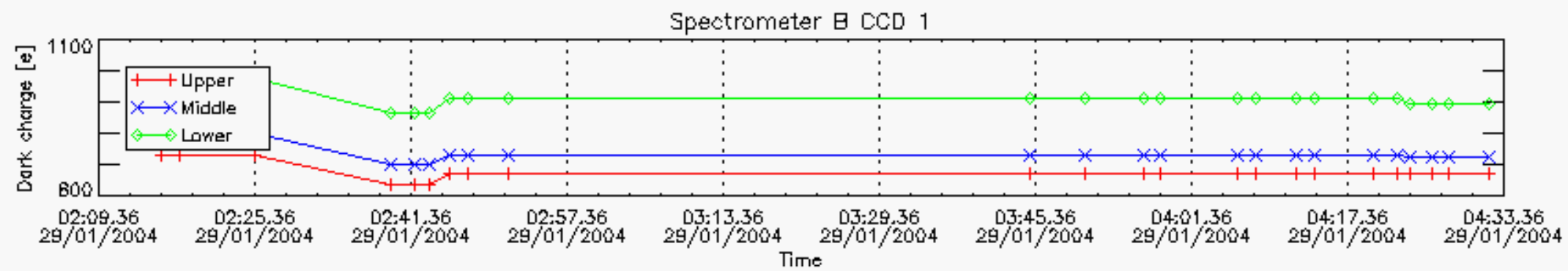
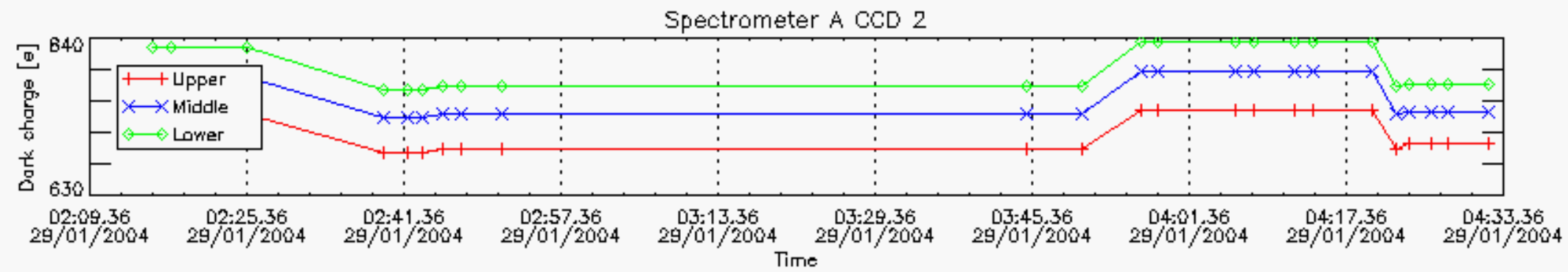
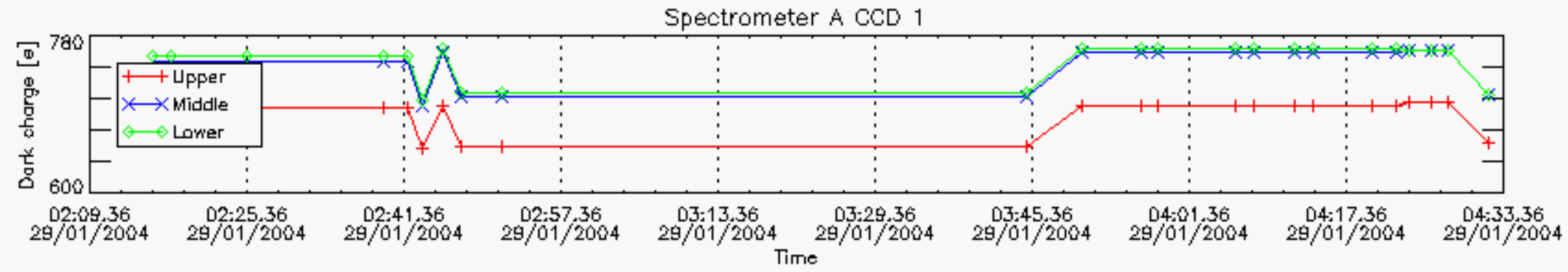
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

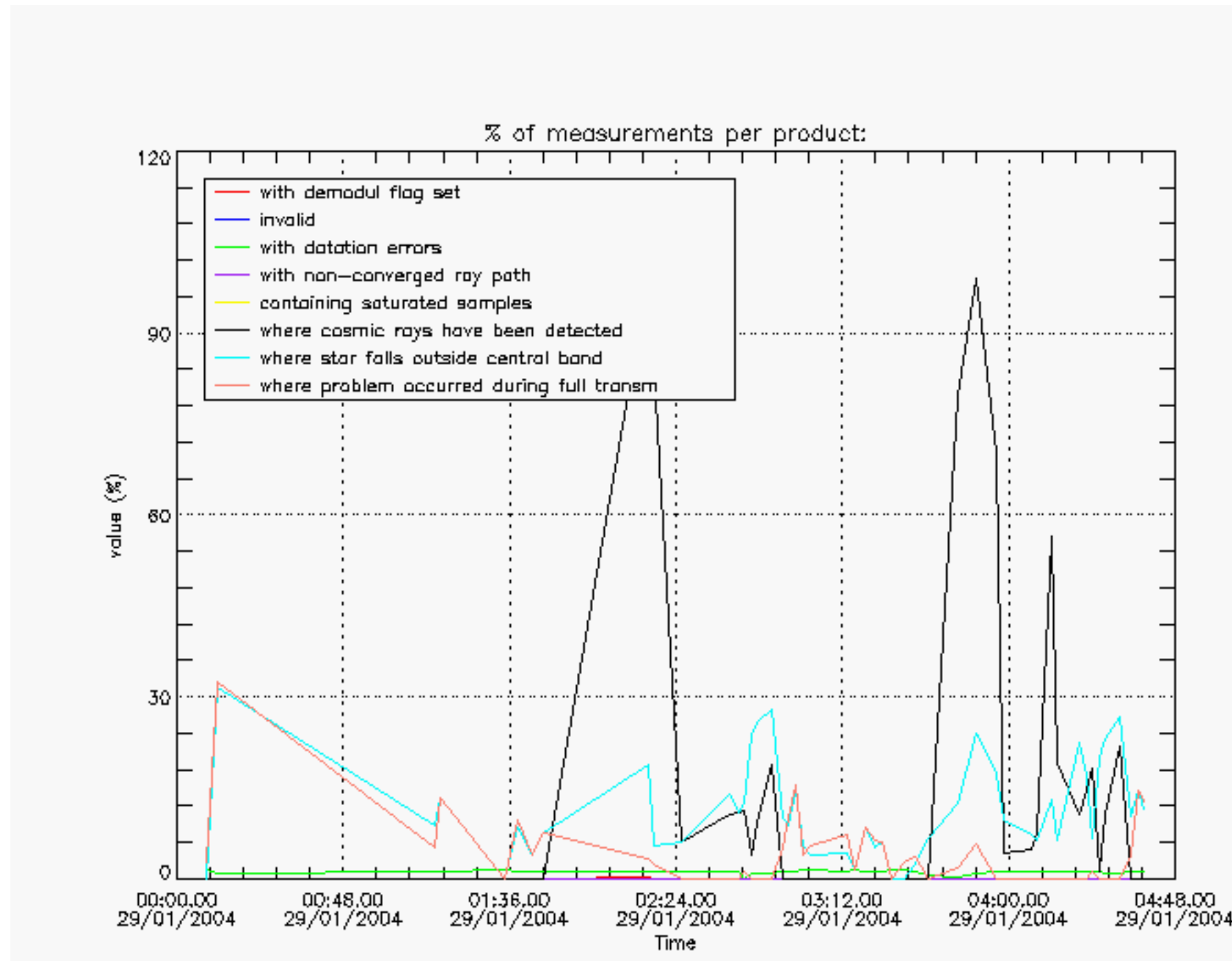
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.3	1447.6	1460.7	1446.4
St. deviation:	4.6538	6.1890	5.2411	6.6784
Maximum:	1498.0	1488.0	1500.0	1487.0
Minimum:	1459.0	1432.0	1457.0	1429.0
Number of data:	29650.	29650.	27300.	27300.



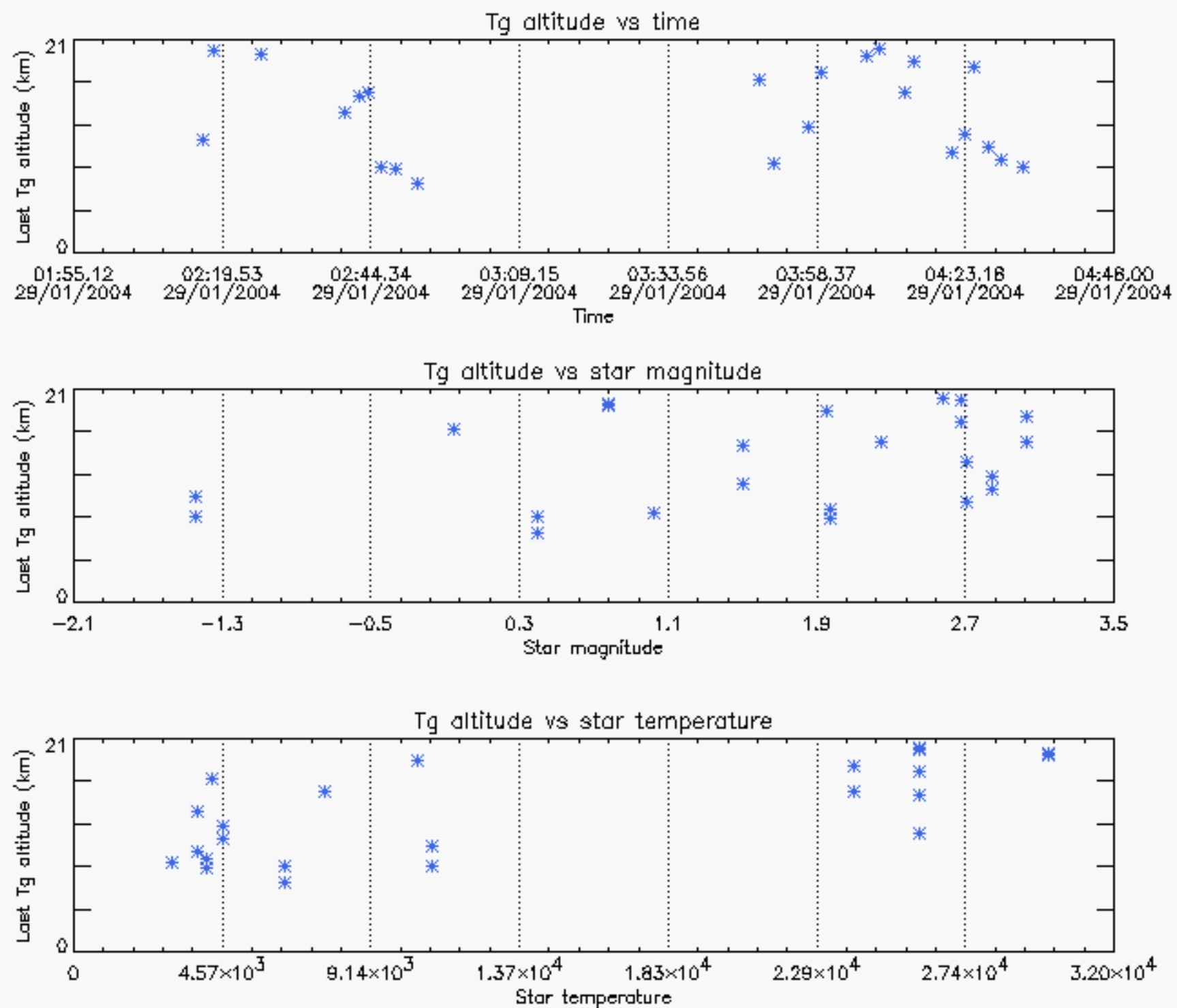








Tangent altitude at which the star is lost



/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
23;	-282.4;	01-JAN-2004	06:55:21;	Dark	;	38.5;	109;	Bet Lup	;	2.68;	26000;occ;	77;	0;	9607
24;	-194.7;	01-JAN-2004	06:56:48;	Dark	;	41.5;	78;	Alp Lup	;	2.30;	28000;occ;	83;	0;	9607
25;	-106.2;	01-JAN-2004	06:58:17;	Dark	;	42.0;	95;	Zet Cen	;	2.55;	26000;occ;	84;	0;	9607
26;	-2.7;	01-JAN-2004	07:00:00;	Dark	;	43.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	87;	0;	9607
27;	226.9;	01-JAN-2004	07:03:50;	Dark	;	51.5;	12;	Alp1Cru	;	0.77;	30000;occ;	103;	0;	9608
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33;	976.8;	01-JAN-2004	07:16:20;	Dark	;	46.5;	2;	Alp Car	;	-0.74;	7000;occ;	93;	0;	9608
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28; -67.2; 05-JAN-2004 14:56:03; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0; 9669
29; 16.3; 05-JAN-2004 14:57:26; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0; 9670
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31; 255.9; 05-JAN-2004 15:01:26; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0; 9670
32; 417.1; 05-JAN-2004 15:04:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9670
33; 566.4; 05-JAN-2004 15:06:36; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0; 9670
34; 657.5; 05-JAN-2004 15:08:07; Dark ; 48.0; 71; Iot Car ; 2.25; 7700;occ; 96; 0; 9670
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36; 885.1; 05-JAN-2004 15:11:55; Dark ; 53.0; 65; Lam Vel ; 2.20; 4400;occ; 106; 0; 9670
37; 991.9; 05-JAN-2004 15:13:42; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0; 9670
38; 1075.0; 05-JAN-2004 15:15:05; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0; 9670
39; 1191.0; 05-JAN-2004 15:17:01; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0; 9670
40; 1352.2; 05-JAN-2004 15:19:42; Dark ; 35.0; 23; 21Eps CMA ; 1.50; 26000;occ; 70; 0; 9670

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2;	-4153.3;	06-JAN-2004	09:55:08;	Dark	;	46.0;	30;	46Eps Ori	;	1.69;	30000;	occ;	92;	0;	9681
3;	-4007.3;	06-JAN-2004	09:57:34;	Dark	;	50.0;	14;	58Alp Ori	;	0.87;	3000;	occ;	100;	0;	9681
4;	-3828.0;	06-JAN-2004	10:00:33;	Dark	;	48.5;	44;	24Gam Gem	;	1.93;	11000;	occ;	97;	0;	9681
5;	-3728.4;	06-JAN-2004	10:02:12;	Bright;		46.5;	151;	13Mu Gem	;	2.89;	3000;	occ;	93;	0;	9681
6;	-3643.6;	06-JAN-2004	10:03:37;	Bright;		40.0;	28;	12Bet Tau	;	1.65;	15200;	occ;	80;	0;	9681
7;	-3563.5;	06-JAN-2004	10:04:57;	Bright;		42.0;	114;	3Iot Aur	;	2.69;	4600;	occ;	84;	0;	9681
8;	-3406.2;	06-JAN-2004	10:07:35;	Bright;		35.5;	149;	45Eps Per	;	2.89;	30000;	occ;	71;	0;	9681
9;	-3268.3;	06-JAN-2004	10:09:53;	Bright;		36.5;	175;	39Del Per	;	3.01;	19400;	occ;	73;	0;	9681
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11;	-2616.5;	06-JAN-2004	10:20:44;	Bright;		40.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	80;	0;	9681
12;	-2487.9;	06-JAN-2004	10:22:53;	Bright;		49.5;	36;	50Alp UMa	;	1.80;	6300;	occ;	99;	0;	9681
13;	-2357.2;	06-JAN-2004	10:25:04;	Bright;		44.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	89;	0;	9681
14;	-2247.4;	06-JAN-2004	10:26:53;	Bright;		57.0;	87;	64Gam UMa	;	2.43;	11000;	occ;	114;	0;	9681
15;	-2113.5;	06-JAN-2004	10:29:07;	Bright;		38.0;	119;	14Eta Dra	;	2.73;	4700;	occ;	76;	0;	9681
16;	-1977.9;	06-JAN-2004	10:31:23;	Bright;		37.5;	130;	23Bet Dra	;	2.80;	5800;	occ;	75;	0;	9681
17;	-1707.9;	06-JAN-2004	10:35:53;	Bright;		65.0;	152;	12Alp2CVn	;	2.89;	11000;	occ;	130;	0;	9681
18;	-1447.2;	06-JAN-2004	10:40:14;	Bright;		47.5;	83;		;	2.38;	11000;	occ;	95;	0;	9681
19;	-1317.9;	06-JAN-2004	10:42:23;	Bright;		35.0;	59;	55Alp Oph	;	2.08;	8900;	occ;	70;	0;	9681
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21;	-989.9;	06-JAN-2004	10:47:51;	Bright;		38.0;	120;	1Del Oph	;	2.73;	3200;	occ;	76;	0;	9681
22;	-808.6;	06-JAN-2004	10:50:52;	Bright;		44.5;	104;	27Bet Lib	;	2.61;	13100;	occ;	89;	0;	9681
23;	-662.8;	06-JAN-2004	10:53:18;	Dark	;	46.0;	80;	7Del Sco	;	2.32;	30000;	occ;	92;	0;	9681
24;	-367.3;	06-JAN-2004	10:58:14;	Dark	;	76.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	152;	0;	9681
25;	-216.3;	06-JAN-2004	11:00:44;	Dark	;	55.0;	54;	5The Cen	;	2.06;	4500;	occ;	110;	0;	9681
26;	18.7;	06-JAN-2004	11:04:40;	Dark	;	53.0;	4;	Alp1Cen	;	-0.01;	5800;	occ;	106;	0;	9682
27;	163.9;	06-JAN-2004	11:07:05;	Dark	;	46.0;	64;	Gam Cen	;	2.20;	10600;	occ;	92;	0;	9682
28;	265.0;	06-JAN-2004	11:08:46;	Dark	;	43.0;	12;	Alp1Cru	;	0.77;	30000;	occ;	86;	0;	9682
29;	420.5;	06-JAN-2004	11:11:21;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	9682
30;	571.0;	06-JAN-2004	11:13:52;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;	occ;	79;	0;	9682
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33;	892.4;	06-JAN-2004	11:19:13;	Dark	;	58.5;	65;	Lam Vel	;	2.20;	4400;	occ;	117;	0;	9682
34;	995.0;	06-JAN-2004	11:20:56;	Dark	;	48.5;	2;	Alp Car	;	-0.74;	7000;	occ;	97;	0;	9682
35;	1080.3;	06-JAN-2004	11:22:21;	Dark	;	47.5;	70;	Zet Pup	;	2.25;	39000;	occ;	95;	0;	9682
36;	1193.0;	06-JAN-2004	11:24:14;	Dark	;	52.0;	117;	Pi Pup	;	2.71;	3800;	occ;	104;	0;	9682
37;	1355.1;	06-JAN-2004	11:26:56;	Dark	;	47.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	94;	0;	9682
38;	1447.1;	06-JAN-2004	11:28:28;	Dark	;	42.0;	179;	240mi2CMA	;	3.03;	24000;	occ;	84;	0;	9682

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2;	-4680.1;	06-JAN-2004	16:28:44;	Dark	;	52.5;	23;	21Eps CMa	;	1.50;	26000;	occ;	105;	0;	9685
3;	-4588.7;	06-JAN-2004	16:30:16;	Dark	;	47.0;	179;	240mi2CMA	;	3.03;	24000;	occ;	94;	0;	9685
4;	-4447.4;	06-JAN-2004	16:32:37;	Dark	;	56.0;	1;	9Alp CMA	;	-1.44;	11000;	occ;	112;	0;	9685
5;	-4259.7;	06-JAN-2004	16:35:45;	Dark	;	49.5;	7;	19Bet Ori	;	0.10;	14000;	occ;	99;	0;	9685
6;	-4152.9;	06-JAN-2004	16:37:32;	Dark	;	48.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	97;	0;	9685
7;	-3981.0;	06-JAN-2004	16:40:24;	Dark	;	64.5;	8;	10Alp CMi	;	0.40;	6500;	occ;	129;	0;	9685
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13;	-3267.1;	06-JAN-2004	16:52:17;	Bright;		36.5;	175;	39Del Per	;	3.01;	19400;	occ;	73;	0;	9685
14;	-3133.8;	06-JAN-2004	16:54:31;	Bright;		37.0;	160;	23Gam Per	;	2.93;	4700;	occ;	74;	0;	9685
15;	-2614.1;	06-JAN-2004	17:03:10;	Bright;		37.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	75;	0;	9685
16;	-2490.7;	06-JAN-2004	17:05:14;	Bright;		51.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	102;	0;	9685
17;	-2355.0;	06-JAN-2004	17:07:30;	Bright;		39.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	79;	0;	9685
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21;	-1709.0;	06-JAN-2004	17:18:16;	Bright;		69.0;	152;	12Alp2CVn	;	2.89;	11000;	occ;	138;	0;	9685
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23;	-1318.5;	06-JAN-2004	17:24:46;	Bright;		36.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	73;	0;	9685
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27;	-661.5;	06-JAN-2004	17:35:43;	Dark	;	43.5;	80;	7Del Sco	;	2.32;	30000;	occ;	87;	0;	9685
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19;	-1316.9;	07-JAN-2004	08:30:11;	Bright;		36.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	73;	0;	9694
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28;-881.6; 10-JAN-2004 20:27:22; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0; 9744
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30;-638.2; 10-JAN-2004 20:31:25; Dark ; 47.5; 80; 7Del Sco ; 2.32; 30000;occ; 95; 0; 9744
31;-310.7; 10-JAN-2004 20:36:53; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0; 9744
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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
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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
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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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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
30; 594.8; 11-JAN-2004 08:36:10; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0; 9752
31; 701.3; 11-JAN-2004 08:37:56; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 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
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
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
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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
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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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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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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
28;	-304.3;	11-JAN-2004	18:24:46;	Dark	;	39.5;	131;	Gam Lup	;	2.80;	26000;occ;	79;	0;	9757

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 36; 703.7; 11-JAN-2004 18:41:34; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0; 9758
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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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13;	-3357.4;	27-JAN-2004	19:11:34;	Bright;		39.5;	42;	34Bet	Aur	;	1.90;	10200;	occ;	79;	0;	9987
14;	-2705.3;	27-JAN-2004	19:22:26;	Bright;		48.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	96;	0;	9987
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23;	-1134.4;	27-JAN-2004	19:48:37;	Bright;		39.5;	126;	60Bet	Oph	;	2.77;	4250;	occ;	79;	0;	9987
24;	-890.8;	27-JAN-2004	19:52:41;	Dark	;	255.0;	3;	16Alp	Boo	;	-0.05;	4250;	occ;	510;	0;	9987
25;	-509.5;	27-JAN-2004	19:59:02;	Dark	;	49.5;	16;	21Alp	Sco	;	1.02;	3000;	occ;	99;	0;	9987
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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28;	-237.7;	27-JAN-2004	20:03:34;	Dark	;	41.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	82;	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
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36;	663.7;	27-JAN-2004	20:18:35;	Dark	;	41.0;	29;	Bet	Car	;	1.67;	10200;	occ;	82;	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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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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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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22;	-416.4;	28-JAN-2004	07:44:47;	Dark	;	41.5;	85;	Kap	Sco	;	2.41;	28000;	occ;	83;	0;	9994
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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