

GOMOS Daily Report 13-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	14JAN2004 06:51:32
Data source version	<Any version>
Start time of products	13-JAN-2004 (13JAN2004 00:00:00)
Stop time of products	14-JAN-2004 (14JAN2004 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

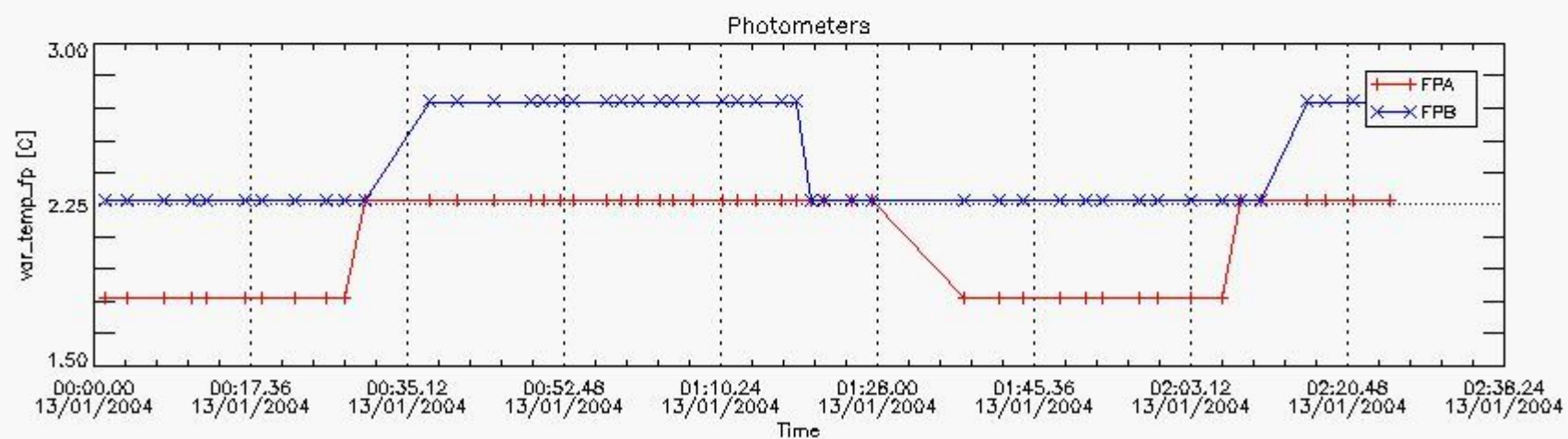
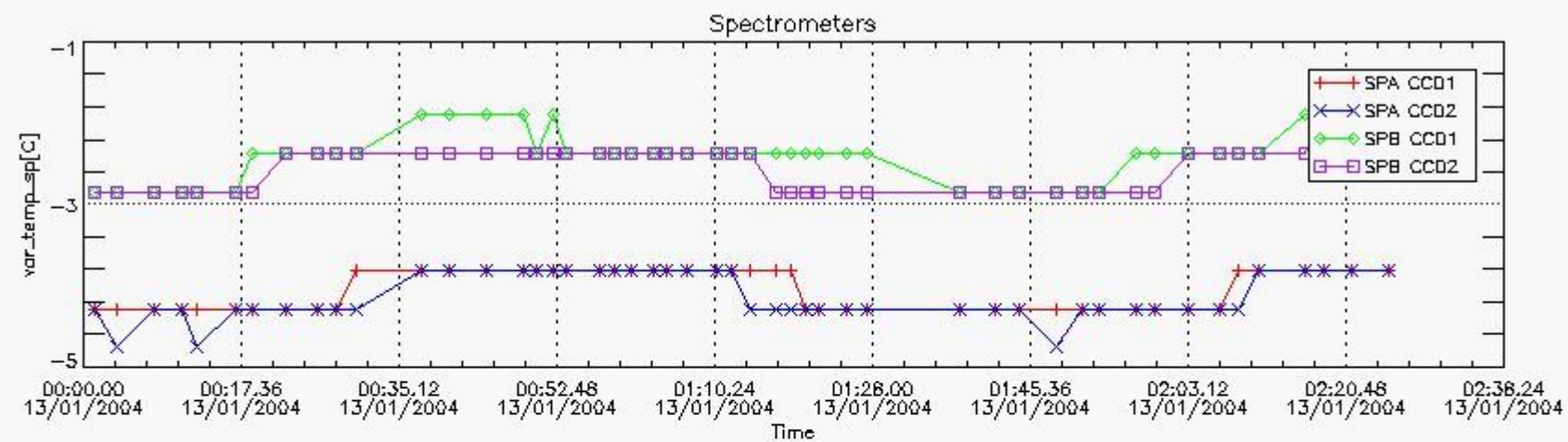
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040113_000108_000000372023_00202_09775_0014.N1	13-JAN-2004 00:01:08	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	9775	No
GOM_TRA_1PNPDE20040113_000349_000000532023_00202_09775_0015.N1	13-JAN-2004 00:03:49	Bright	53.000	32	77Eps UMa	1.7630	11000.	106	9775	No
GOM_TRA_1PNPDE20040113_000751_000000382023_00202_09775_0016.N1	13-JAN-2004 00:07:51	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	9775	No
GOM_TRA_1PNPDE20040113_001054_000000372023_00202_09775_0017.N1	13-JAN-2004 00:10:54	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	9775	No
GOM_TRA_1PNPDE20040113_001233_000000512023_00202_09775_0018.N1	13-JAN-2004 00:12:33	Bright	50.500	180	27Gam Boo	3.0400	8000.0	101	9775	No
GOM_TRA_1PNPDE20040113_001653_000000562023_00202_09775_0019.N1	13-JAN-2004 00:16:53	Bright	55.500	83		2.3780	11000.	111	9775	No
GOM_TRA_1PNPDE20040113_001853_000000512023_00202_09775_0020.N1	13-JAN-2004 00:18:53	Bright	51.000	59	55Alp Oph	2.0800	8900.0	102	9775	No
GOM_TRA_1PNPDE20040113_002231_000000872023_00202_09775_0021.N1	13-JAN-2004 00:22:31	Dark	86.500	111	8Eta Boo	2.6800	6000.0	173	9775	No
GOM_TRA_1PNPDE20040113_002605_000000382023_00202_09775_0022.N1	13-JAN-2004 00:26:05	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	9775	No
GOM_TRA_1PNPDE20040113_002806_000000492023_00202_09775_0023.N1	13-JAN-2004 00:28:06	Dark	48.500	104	27Bet Lib	2.6140	13100.	97	9775	No
GOM_TRA_1PNPDE20040113_003030_000000522023_00202_09775_0024.N1	13-JAN-2004 00:30:30	Dark	52.000	16	21Alp Sco	1.0200	3000.0	104	9775	No
GOM_TRA_1PNPDE20040113_003742_000000922023_00202_09775_0025.N1	13-JAN-2004 00:37:42	Dark	92.000	15	67Alp Vir	0.97600	28000.	184	9775	No
GOM_TRA_1PNPDE20040113_004046_000000472023_00203_09776_0026.N1	13-JAN-2004 00:40:46	Dark	47.000	95	Zet Cen	2.5450	26000.	94	9776	No
GOM_TRA_1PNPDE20040113_004457_000000432023_00203_09776_0027.N1	13-JAN-2004 00:44:57	Dark	42.500	20	Bet Cru	1.2530	30000.	85	9776	No
GOM_TRA_1PNPDE20040113_004909_000000422023_00203_09776_0028.N1	13-JAN-2004 00:49:09	Dark	42.000	124	The Car	2.7640	30000.	84	9776	No
GOM_TRA_1PNPDE20040113_005036_000000502023_00203_09776_0029.N1	13-JAN-2004 00:50:36	Dark	49.500	29	Bet Car	1.6720	10200.	99	9776	No
GOM_TRA_1PNPDE20040113_005228_000000412023_00203_09776_0030.N1	13-JAN-2004 00:52:28	Dark	41.000	71	lot Car	2.2460	7700.0	82	9776	No
GOM_TRA_1PNPDE20040113_005347_000000482023_00203_09776_0031.N1	13-JAN-2004 00:53:47	Dark	47.500	41	Eps Car	1.8600	4100.0	95	9776	No
GOM_TRA_1PNPDE20040113_005731_000000522023_00203_09776_0032.N1	13-JAN-2004 00:57:31	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	9776	No
GOM_TRA_1PNPDE20040113_005915_000000432023_00203_09776_0033.N1	13-JAN-2004 00:59:15	Dark	43.000	70	Zet Pup	2.2460	39000.	86	9776	No
GOM_TRA_1PNPDE20040113_010101_000000482023_00203_09776_0034.N1	13-JAN-2004 01:01:01	Dark	47.500	117	Pi Pup	2.7060	3800.0	95	9776	No
GOM_TRA_1PNPDE20040113_010333_000000492023_00203_09776_0000.N1	13-JAN-2004 01:03:33	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	9776	No
GOM_TRA_1PNPDE20040113_010501_000000432023_00203_09776_0001.N1	13-JAN-2004 01:05:01	Dark	43.000	179	24Omi2CMa	3.0320	24000.	86	9776	No
GOM_TRA_1PNPDE20040113_010715_000000512023_00203_09776_0002.N1	13-JAN-2004 01:07:15	Dark	50.500	1	9Alp CMa	-1.4400	11000.	101	9776	No
GOM_TRA_1PNPDE20040113_011032_000000502023_00203_09776_0003.N1	13-JAN-2004 01:10:32	Dark	49.500	7	19Bet Ori	0.10000	14000.	99	9776	No
GOM_TRA_1PNPDE20040113_011213_000000442023_00203_09776_0004.N1	13-JAN-2004 01:12:13	Dark	43.500	30	46Eps Ori	1.6940	30000.	87	9776	No
GOM_TRA_1PNPDE20040113_011419_000000652023_00203_09776_0005.N1	13-JAN-2004 01:14:19	Dark	64.500	8	10Alp CMi	0.40000	6500.0	129	9776	No
GOM_TRA_1PNPDE20040113_011707_000000442023_00203_09776_0006.N1	13-JAN-2004 01:17:07	Dark	44.000	44	24Gam Gem	1.9280	11000.	88	9776	No
GOM_TRA_1PNPDE20040113_011849_000000442023_00203_09776_0007.N1	13-JAN-2004 01:18:49	Bright	44.000	151	13Mu Gem	2.8900	3000.0	88	9776	No
GOM_TRA_1PNPDE20040113_012034_000000402023_00203_09776_0008.N1	13-JAN-2004 01:20:34	Bright	40.000	28	12Bet Tau	1.6500	15200.	80	9776	No
GOM_TRA_1PNPDE20040113_012205_000000412023_00203_09776_0009.N1	13-JAN-2004 01:22:05	Bright	41.000	114	3lot Aur	2.6930	4600.0	82	9776	No
GOM_TRA_1PNPDE20040113_012508_000000392023_00203_09776_0010.N1	13-JAN-2004 01:25:08	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	9776	No
GOM_TRA_1PNPDE20040113_012718_000000382023_00203_09776_0011.N1	13-JAN-2004 01:27:18	Bright	37.500	175	39Del Per	3.0100	19400.	75	9776	No
GOM_TRA_1PNPDE20040113_013738_000000372023_00203_09776_0012.N1	13-JAN-2004 01:37:38	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	9776	No
GOM_TRA_1PNPDE20040113_014144_000000412023_00203_09776_0013.N1	13-JAN-2004 01:41:44	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	9776	No
GOM_TRA_1PNPDE20040113_014425_000000522023_00203_09776_0014.N1	13-JAN-2004 01:44:25	Bright	52.000	32	77Eps UMa	1.7630	11000.	104	9776	No
GOM_TRA_1PNPDE20040113_014828_000000372023_00203_09776_0015.N1	13-JAN-2004 01:48:28	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	9776	No
GOM_TRA_1PNPDE20040113_015127_000000402023_00203_09776_0016.N1	13-JAN-2004 01:51:27	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	9776	No
GOM_TRA_1PNPDE20040113_015309_000000492023_00203_09776_0017.N1	13-JAN-2004 01:53:09	Bright	49.000	180	27Gam Boo	3.0400	8000.0	98	9776	No
GOM_TRA_1PNPDE20040113_015729_000000522023_00203_09776_0018.N1	13-JAN-2004 01:57:29	Bright	52.000	83		2.3780	11000.	104	9776	No
GOM_TRA_1PNPDE20040113_015929_000000362023_00203_09776_0019.N1	13-JAN-2004 01:59:29	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	9776	No
GOM_TRA_1PNPDE20040113_020308_000000802023_00203_09776_0020.N1	13-JAN-2004 02:03:08	Dark	80.000	111	8Eta Boo	2.6800	6000.0	160	9776	No
GOM_TRA_1PNPDE20040113_020641_000000392023_00203_09776_0021.N1	13-JAN-2004 02:06:41	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	9776	No
GOM_TRA_1PNPDE20040113_020843_000000482023_00203_09776_0022.N1	13-JAN-2004 02:08:43	Dark	47.500	104	27Bet Lib	2.6140	13100.	95	9776	No
GOM_TRA_1PNPDE20040113_021106_000000522023_00203_09776_0023.N1	13-JAN-2004 02:11:06	Dark	52.000	16	21Alp Sco	1.0200	3000.0	104	9776	No
GOM_TRA_1PNPDE20040113_021615_000000412023_00203_09776_0024.N1	13-JAN-2004 02:16:15	Dark	41.000	131	Gam Lup	2.8000	26000.	82	9776	No
GOM_TRA_1PNPDE20040113_021821_000000972023_00203_09776_0025.N1	13-JAN-2004 02:18:21	Dark	96.500	15	67Alp Vir	0.97600	28000.	193	9776	No
GOM_TRA_1PNPDE20040113_022122_000000472023_00204_09777_0026.N1	13-JAN-2004 02:21:22	Dark	46.500	95	Zet Cen	2.5450	26000.	93	9777	No
GOM_TRA_1PNPDE20040113_022534_000000432023_00204_09777_0027.N1	13-JAN-2004 02:25:34	Dark	43.000	20	Bet Cru	1.2530	30000.	86	9777	No

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



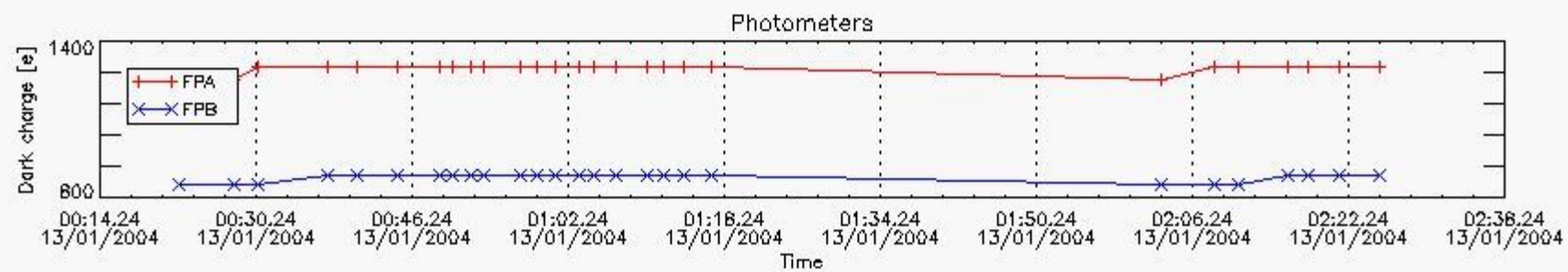
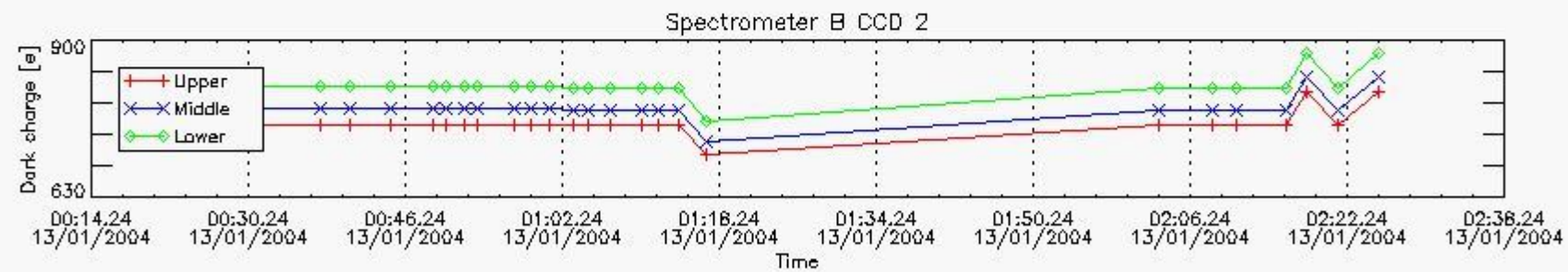
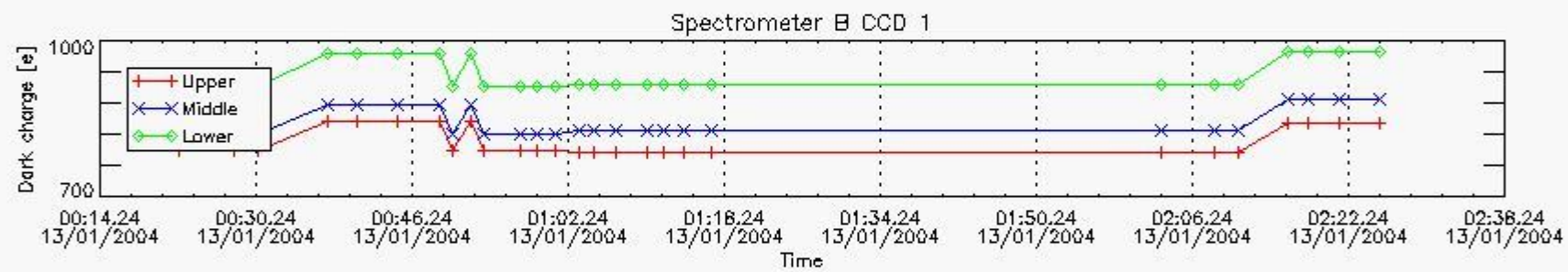
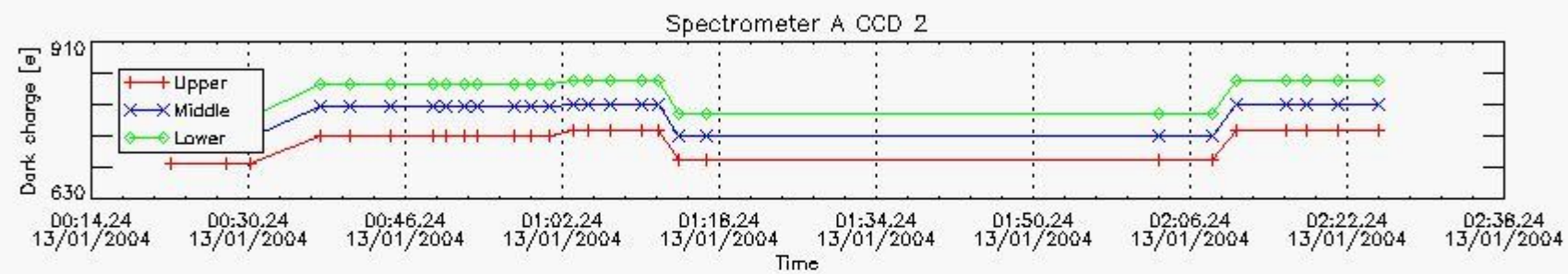
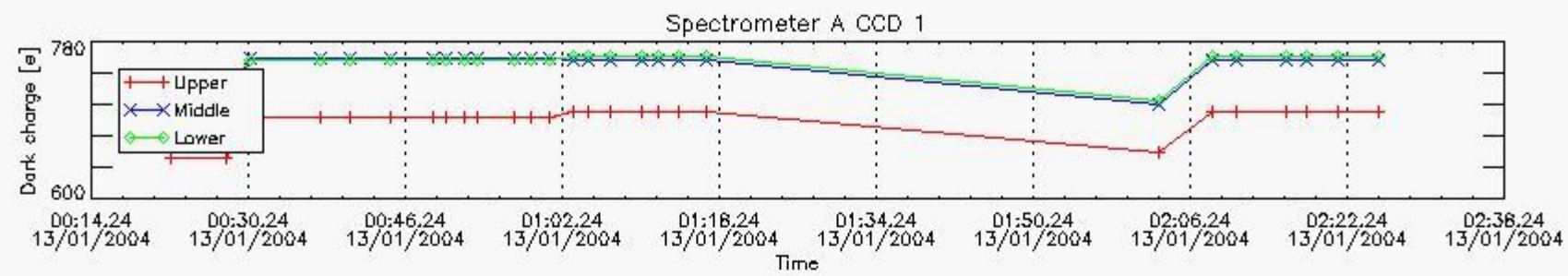
4. Overview of dark signal processing per product

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



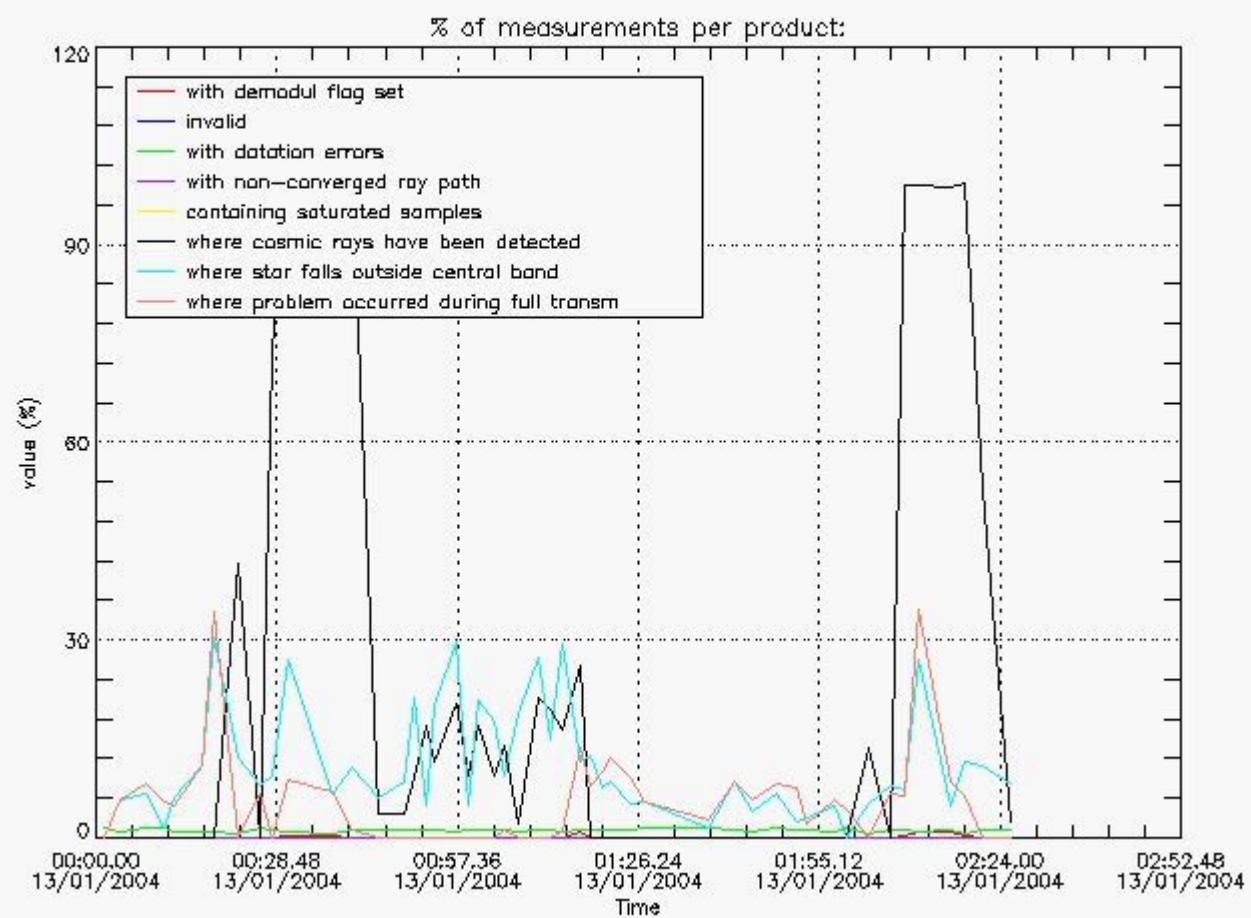
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.5306 %
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



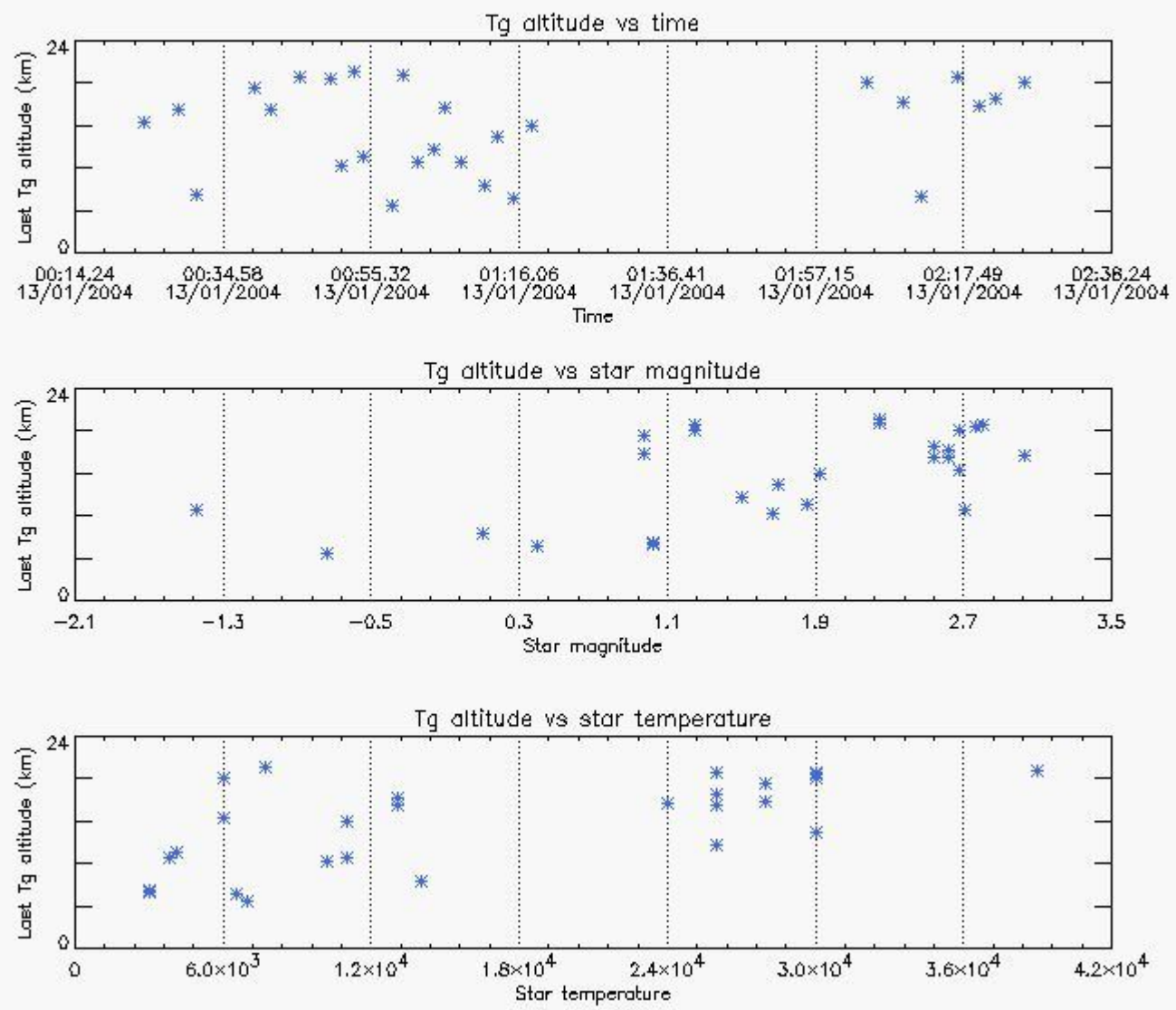
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.225	19.822
St. deviation:	5.0171	4.5338
Maximum:	20.588	28.322
Minimum:	5.3709	5.7471
Number of data:	27.000	22.000

6.2 Plot for DARK limb products

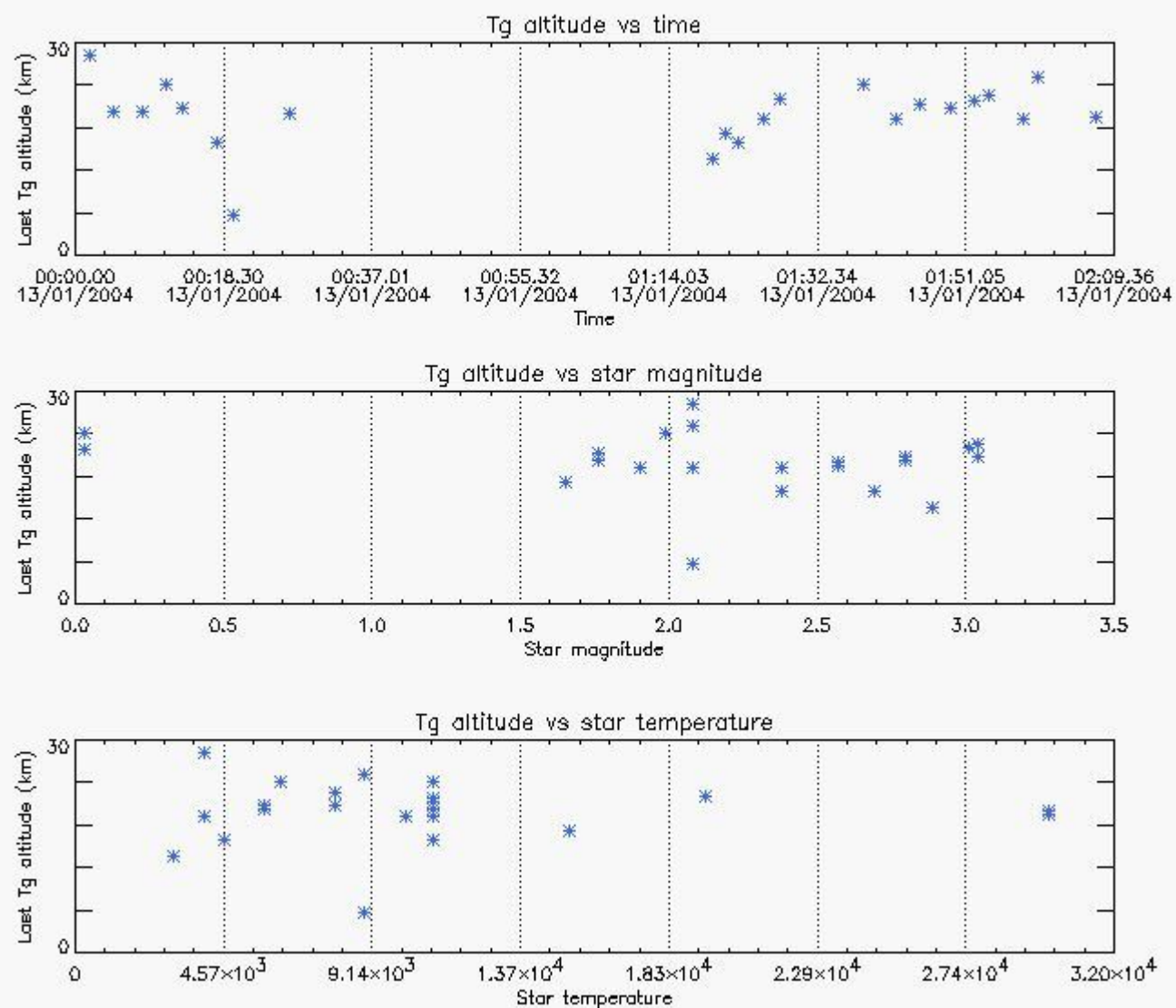
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



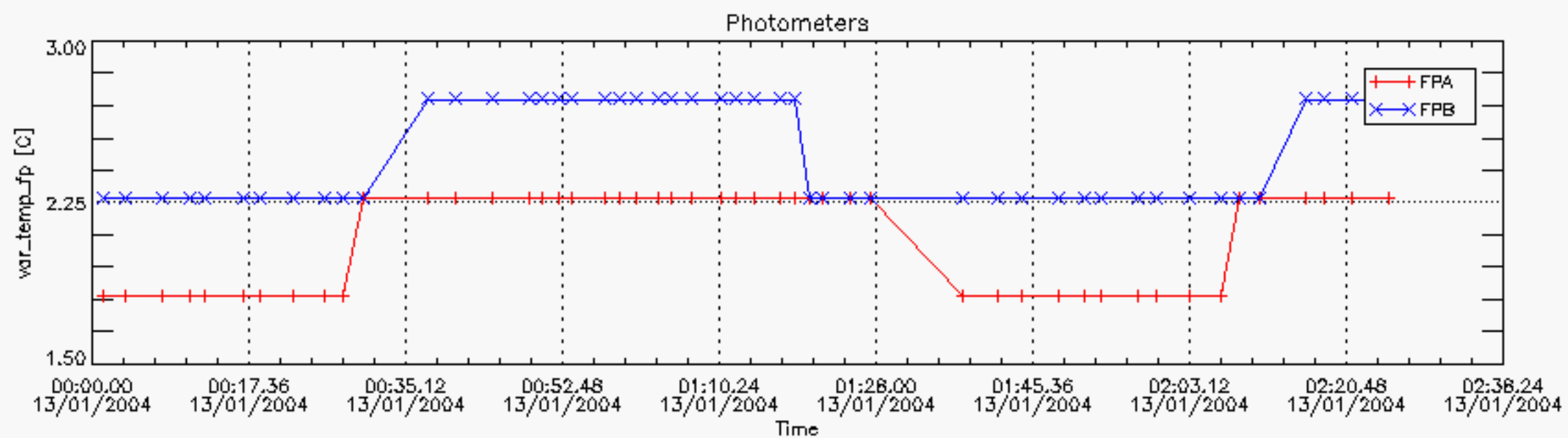
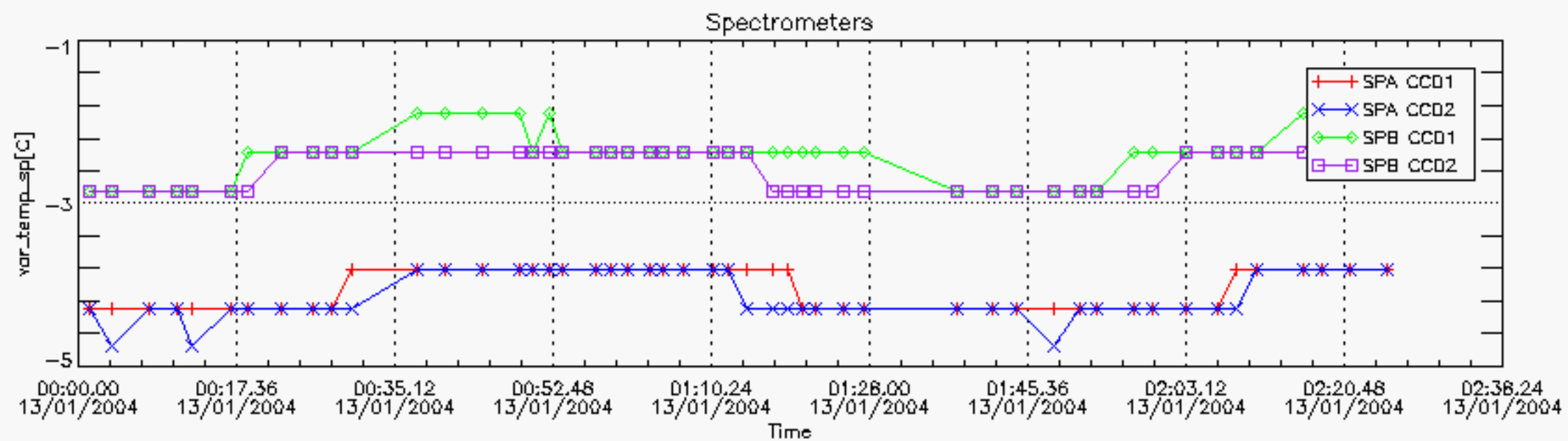
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

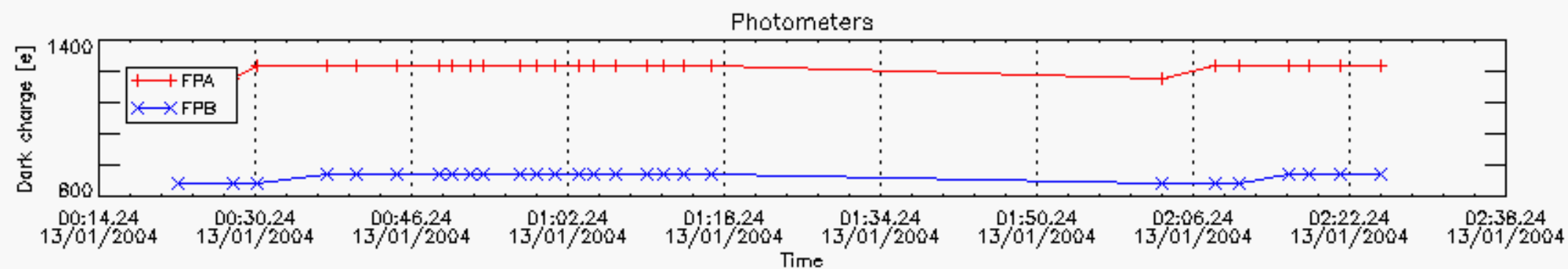
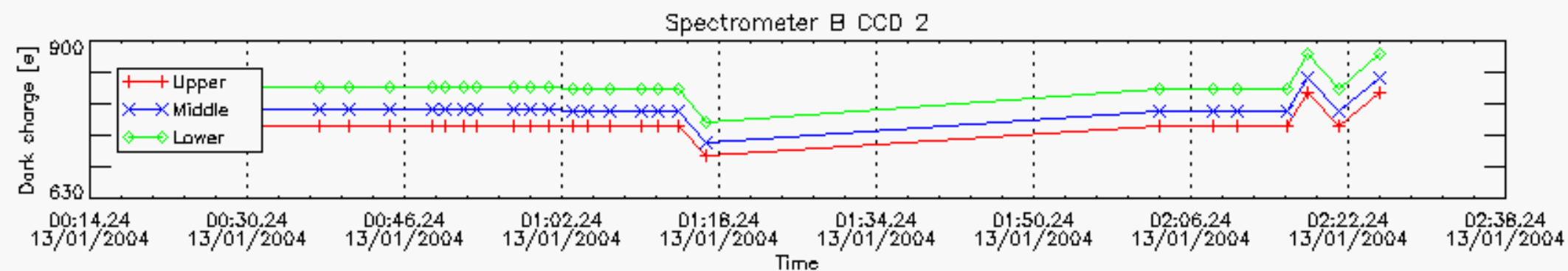
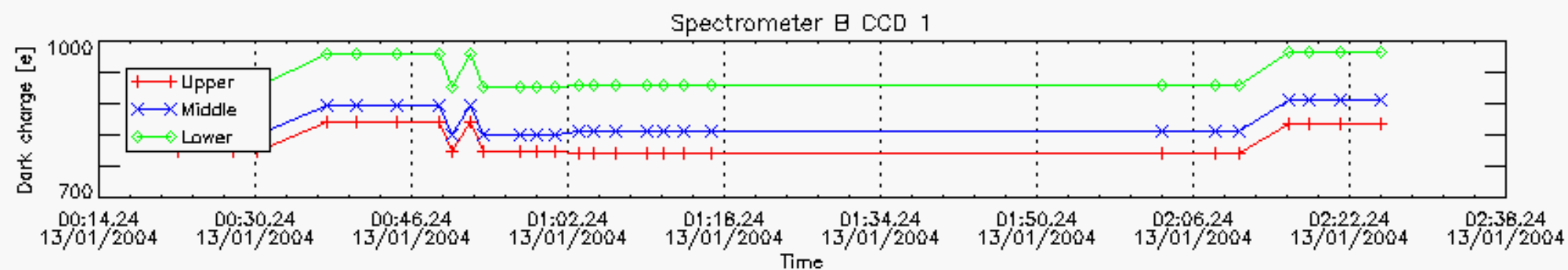
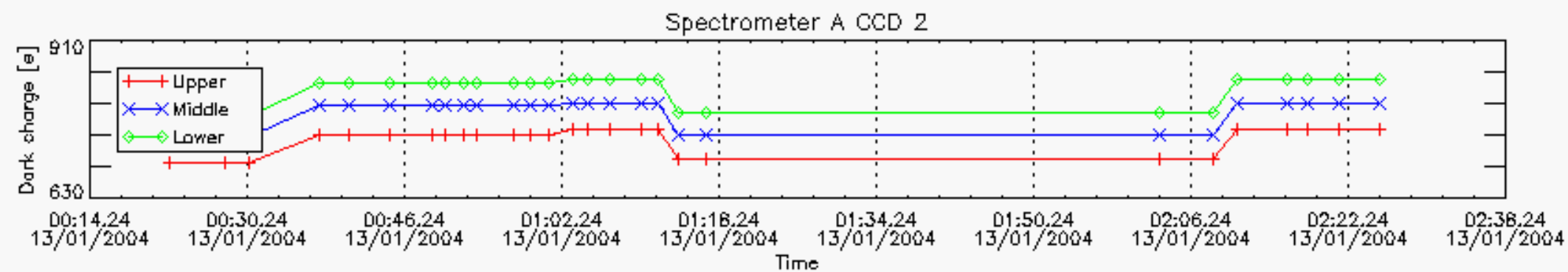
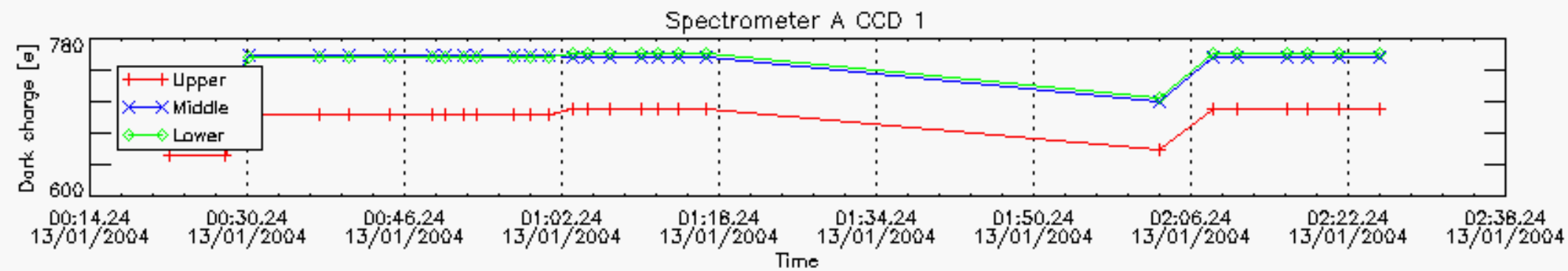
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

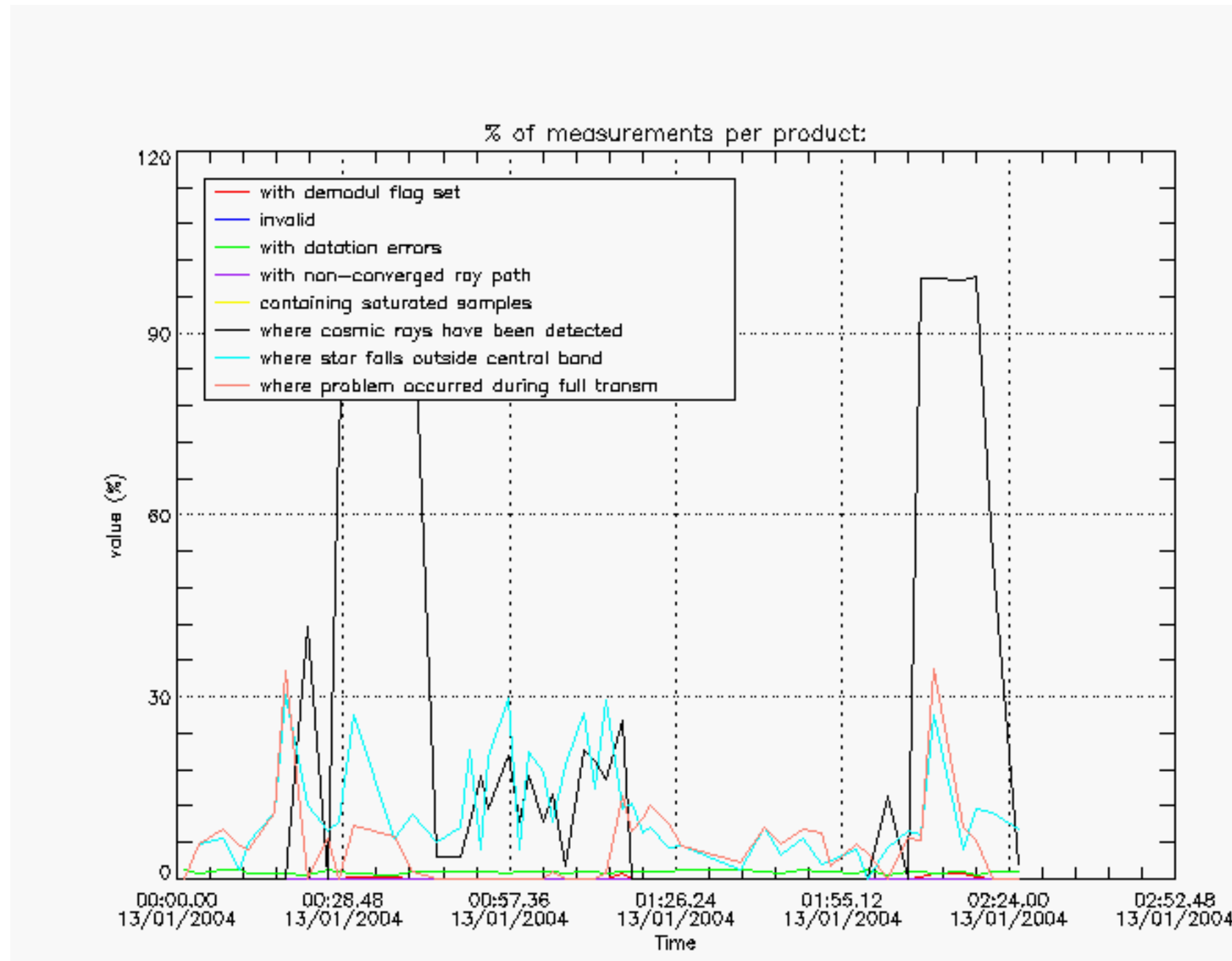
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.8	1447.1	1460.4	1447.4
St. deviation:	5.3070	6.5716	6.9051	8.2161
Maximum:	1524.0	1490.0	1535.0	1499.0
Minimum:	1448.0	1434.0	1429.0	1414.0
Number of data:	36000.	36000.	24550.	24550.



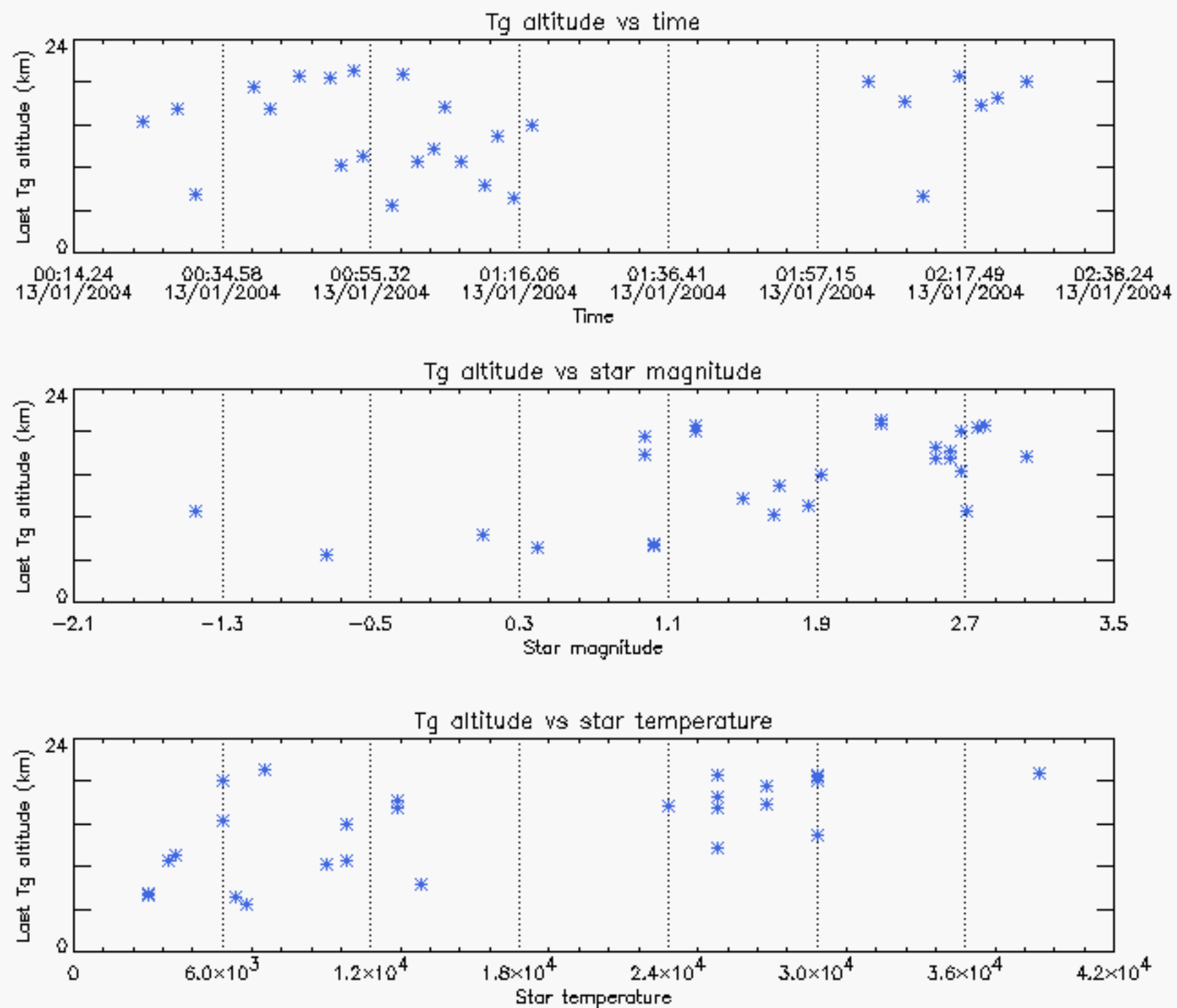




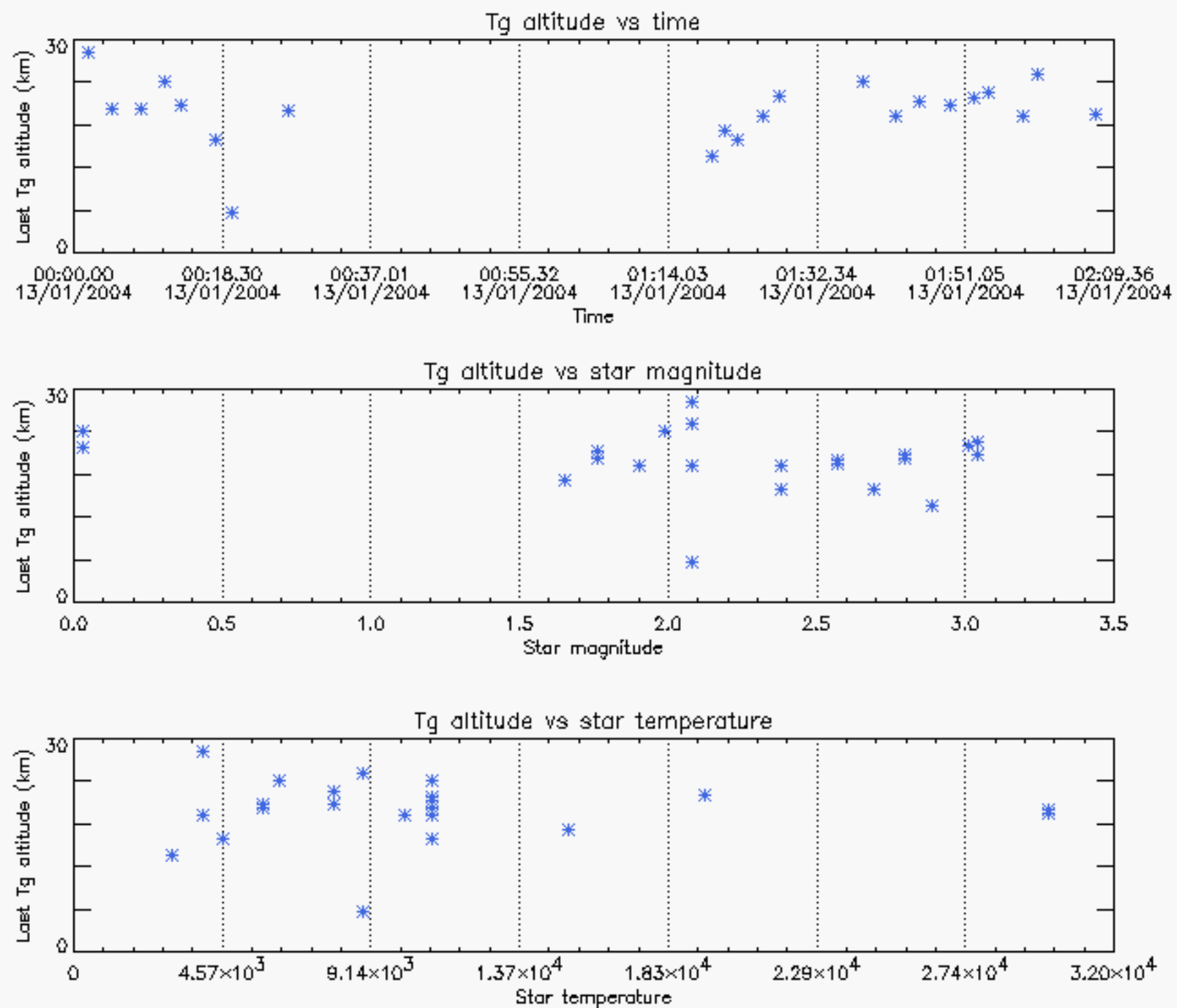




Tangent altitude at which the star is lost



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
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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32;	841.6;	01-JAN-2004	07:14:05;	Dark	;	59.0;	65;	Lam Vel	;	2.20;	4400;occ;	118;	0;	9608
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13;	-2196.4;	01-JAN-2004	08:04:03;	Bright;		55.0;	87;	64Gam UMa	;	2.43;	11000;occ;	110;	0;	9608
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27; -165.3; 05-JAN-2004 14:54:24; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0; 9669
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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
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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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39; 1191.0; 05-JAN-2004 15:17:01; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0; 9670
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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
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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
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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
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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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3;	-4588.7;	06-JAN-2004	16:30:16;	Dark	;	47.0;	179;	240mi2CMA	;	3.03;	24000;	occ;	94;	0;	9685
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6;	-4152.9;	06-JAN-2004	16:37:32;	Dark	;	48.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	97;	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
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15;	-2614.1;	06-JAN-2004	17:03:10;	Bright;		37.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	75;	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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27;	-978.7;	08-JAN-2004	19:48:23;	Bright	;	39.0;	120;	1Del Oph	;	2.73;	3200;	occ;	78;	0;	9715
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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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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
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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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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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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
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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
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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
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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
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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
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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
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
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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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17;	-1559.5;	28-JAN-2004	07:25:44;	Bright;		41.0;	133;	40Zet	Her	;	2.81;	6000;	occ;	82;	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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15;	-2134.3;	29-JAN-2004	15:07:31;	Bright;		42.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	84;	0;	10013
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20;	-1124.9;	29-JAN-2004	15:24:21;	Bright;		38.0;	126;	60Bet	Oph	;	2.77;	4250;	occ;	76;	0;	10013
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25;	-230.1;	29-JAN-2004	15:39:16;	Dark	;	40.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	81;	0;	10013
26;	-135.9;	29-JAN-2004	15:40:50;	Dark	;	43.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	87;	0;	10013
27;	-20.5;	29-JAN-2004	15:42:45;	Dark	;	47.0;	109;	Bet	Lup	;	2.68;	26000;	occ;	94;	0;	10013
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31;	557.5;	29-JAN-2004	15:52:23;	Dark	;	48.0;	99;	Del	Cen	;	2.58;	26000;	occ;	96;	0;	10014
32;	669.8;	29-JAN-2004	15:54:15;	Dark	;	40.5;	29;	Bet	Car	;	1.67;	10200;	occ;	81;	0;	10014
33;	808.2;	29-JAN-2004	15:56:34;	Dark	;	48.5;	71;	Iot	Car	;	2.25;	7700;	occ;	97;	0;	10014
34;	914.5;	29-JAN-2004	15:58:20;	Dark	;	39.5;	46;	Del	Vel	;	1.95;	10600;	occ;	79;	0;	10014
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36;	1193.8;	29-JAN-2004	16:02:59;	Dark	;	45.0;	70;	Zet	Pup	;	2.25;	39000;	occ;	90;	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
16;	-2134.9;	29-JAN-2004	16:48:07;	Bright;		41.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	83;	0;	10014
17;	-1951.2;	29-JAN-2004	16:51:10;	Bright;		40.5;	130;	23Bet	Dra	;	2.80;	5800;	occ;	81;	0;	10014
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