

GOMOS Daily Report 23-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	24JAN2004 06:53:09
Data source version	<Any version>
Start time of products	23-JAN-2004 (23JAN2004 00:00:00)
Stop time of products	24-JAN-2004 (24JAN2004 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

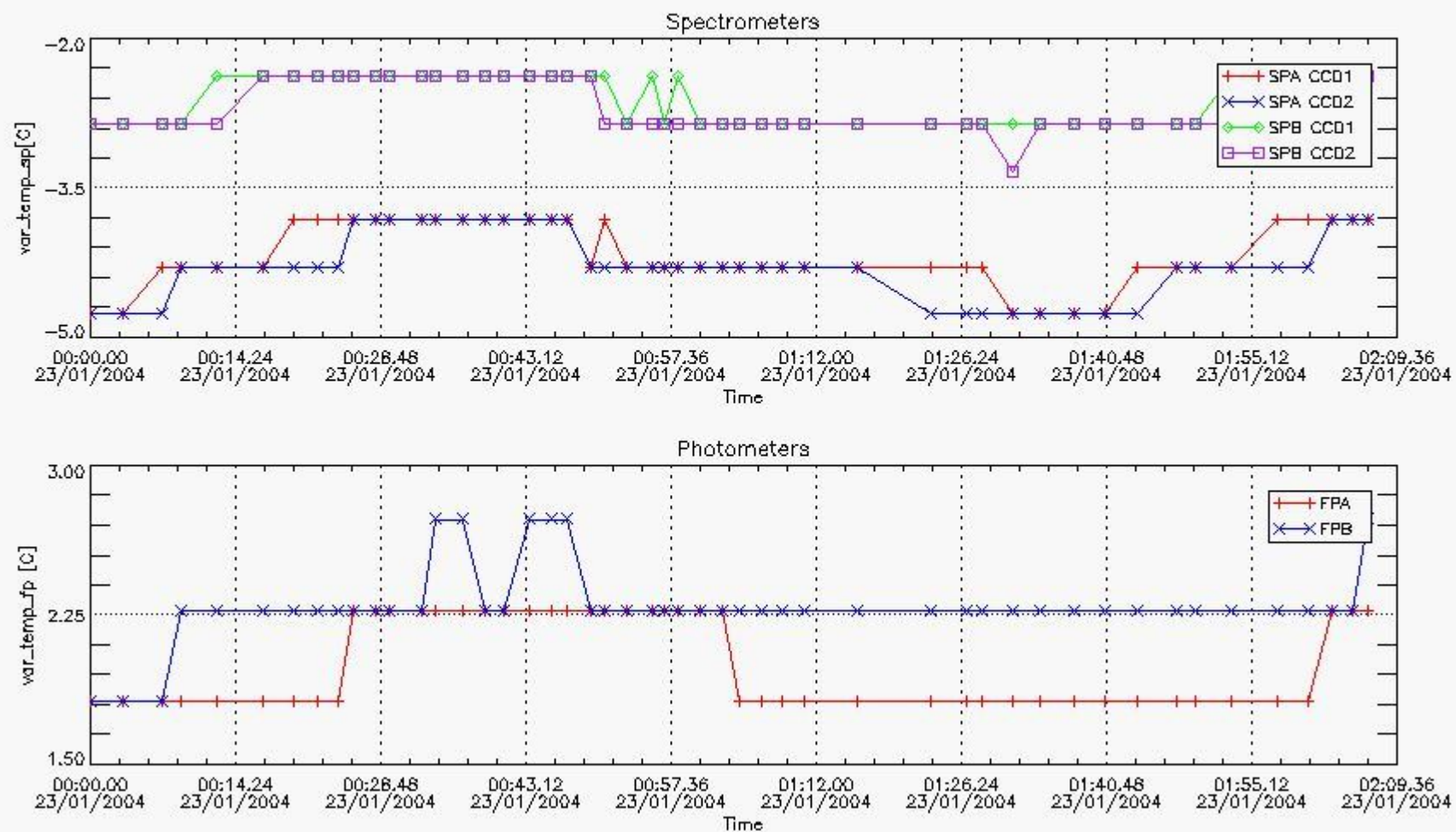
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040123_000002_000000392023_00345_09918_0020.N1	23-JAN-2004 00:00:02	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	9918	No
GOM_TRA_1PNPDE20040123_000314_000000732023_00345_09918_0021.N1	23-JAN-2004 00:03:14	Bright	72.500	83		2.3780	11000.	145	9918	No
GOM_TRA_1PNPDE20040123_000704_000000352023_00345_09918_0022.N1	23-JAN-2004 00:07:04	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	9918	No
GOM_TRA_1PNPDE20040123_000902_000001462023_00345_09918_0023.N1	23-JAN-2004 00:09:02	Dark	146.00	3	16Alp Boo	-0.050000	4250.0	292	9918	No
GOM_TRA_1PNPDE20040123_001236_000000442023_00345_09918_0024.N1	23-JAN-2004 00:12:36	Dark	43.500	98	13Zet Oph	2.5710	30000.	87	9918	No
GOM_TRA_1PNPDE20040123_001706_000000492023_00345_09918_0025.N1	23-JAN-2004 00:17:06	Dark	48.500	16	21Alp Sco	1.0200	3000.0	97	9918	No
GOM_TRA_1PNPDE20040123_002009_000000392023_00345_09918_0026.N1	23-JAN-2004 00:20:09	Dark	38.500	40	The Sco	1.8590	7100.0	77	9918	No
GOM_TRA_1PNPDE20040123_002236_000000422023_00345_09918_0027.N1	23-JAN-2004 00:22:36	Dark	41.500	131	Gam Lup	2.8000	26000.	83	9918	No
GOM_TRA_1PNPDE20040123_002434_000000432023_00345_09918_0028.N1	23-JAN-2004 00:24:34	Dark	42.500	109	Bet Lup	2.6770	26000.	85	9918	No
GOM_TRA_1PNPDE20040123_002603_000000442023_00345_09918_0029.N1	23-JAN-2004 00:26:03	Dark	44.000	78	Alp Lup	2.3040	28000.	88	9918	No
GOM_TRA_1PNPDE20040123_002815_000000512023_00346_09919_0030.N1	23-JAN-2004 00:28:15	Dark	50.500	4	Alp1Cen	-0.010000	5800.0	101	9919	No
GOM_TRA_1PNPDE20040123_002937_000000432023_00346_09919_0031.N1	23-JAN-2004 00:29:37	Dark	42.500	77	Eps Cen	2.3030	28000.	85	9919	No
GOM_TRA_1PNPDE20040123_003247_000000502023_00346_09919_0032.N1	23-JAN-2004 00:32:47	Dark	49.500	12	Alp1Cru	0.77500	30000.	99	9919	No
GOM_TRA_1PNPDE20040123_003410_000000452023_00346_09919_0033.N1	23-JAN-2004 00:34:10	Dark	44.500	99	Del Cen	2.5750	26000.	89	9919	No
GOM_TRA_1PNPDE20040123_003657_000000382023_00346_09919_0034.N1	23-JAN-2004 00:36:57	Dark	38.000	29	Bet Car	1.6720	10200.	76	9919	No
GOM_TRA_1PNPDE20040123_003905_000000412023_00346_09919_0035.N1	23-JAN-2004 00:39:05	Dark	40.500	71	lot Car	2.2460	7700.0	81	9919	No
GOM_TRA_1PNPDE20040123_004055_000000402023_00346_09919_0036.N1	23-JAN-2004 00:40:55	Dark	39.500	46	Del Vel	1.9540	10600.	79	9919	No
GOM_TRA_1PNPDE20040123_004329_000000492023_00346_09919_0037.N1	23-JAN-2004 00:43:29	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	9919	No
GOM_TRA_1PNPDE20040123_004540_000000402023_00346_09919_0038.N1	23-JAN-2004 00:45:40	Dark	40.000	70	Zet Pup	2.2460	39000.	80	9919	No
GOM_TRA_1PNPDE20040123_004711_000000452023_00346_09919_0039.N1	23-JAN-2004 00:47:11	Dark	44.500	117	Pi Pup	2.7060	3800.0	89	9919	No
GOM_TRA_1PNPDE20040123_004940_000000432023_00346_09919_0000.N1	23-JAN-2004 00:49:40	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	9919	No
GOM_TRA_1PNPDE20040123_005104_000000402023_00346_09919_0001.N1	23-JAN-2004 00:51:04	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	9919	No
GOM_TRA_1PNPDE20040123_005314_000000482023_00346_09919_0002.N1	23-JAN-2004 00:53:14	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	9919	No
GOM_TRA_1PNPDE20040123_005547_000000432023_00346_09919_0003.N1	23-JAN-2004 00:55:47	Dark	43.000	56	53Kap Ori	2.0650	30000.	86	9919	No
GOM_TRA_1PNPDE20040123_005700_000000412023_00346_09919_0004.N1	23-JAN-2004 00:57:00	Dark	41.000	125	44lot Ori	2.7700	30000.	82	9919	No
GOM_TRA_1PNPDE20040123_005817_000000442023_00346_09919_0005.N1	23-JAN-2004 00:58:17	Dark	44.000	30	46Eps Ori	1.6940	30000.	88	9919	No
GOM_TRA_1PNPDE20040123_010024_000000522023_00346_09919_0006.N1	23-JAN-2004 01:00:24	Dark	52.000	14	58Alp Ori	0.87000	3000.0	104	9919	No
GOM_TRA_1PNPDE20040123_010238_000000452023_00346_09919_0007.N1	23-JAN-2004 01:02:38	Dark	44.500	44	24Gam Gem	1.9280	11000.	89	9919	No
GOM_TRA_1PNPDE20040123_010423_000000402023_00346_09919_0008.N1	23-JAN-2004 01:04:23	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	9919	No
GOM_TRA_1PNPDE20040123_010635_000000382023_00346_09919_0009.N1	23-JAN-2004 01:06:35	Bright	38.000	28	12Bet Tau	1.6500	15200.	76	9919	No
GOM_TRA_1PNPDE20040123_010835_000000362023_00346_09919_0010.N1	23-JAN-2004 01:08:35	Bright	36.000	107	37The Aur	2.6490	11000.	72	9919	No
GOM_TRA_1PNPDE20040123_011045_000000372023_00346_09919_0011.N1	23-JAN-2004 01:10:45	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	9919	No
GOM_TRA_1PNPDE20040123_011600_000001662023_00346_09919_0012.N1	23-JAN-2004 01:16:00	Bright	165.50	51	41Gam1Leo	2.0100	4500.0	331	9919	No
GOM_TRA_1PNPDE20040123_012317_000000372023_00346_09919_0013.N1	23-JAN-2004 01:23:17	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	9919	No
GOM_TRA_1PNPDE20040123_012655_000000412023_00346_09919_0014.N1	23-JAN-2004 01:26:55	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	9919	No
GOM_TRA_1PNPDE20040123_012826_000000552023_00346_09919_0015.N1	23-JAN-2004 01:28:26	Bright	55.000	32	77Eps UMa	1.7630	11000.	110	9919	No
GOM_TRA_1PNPDE20040123_013125_000000392023_00346_09919_0016.N1	23-JAN-2004 01:31:25	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	9919	No
GOM_TRA_1PNPDE20040123_013414_000000382023_00346_09919_0017.N1	23-JAN-2004 01:34:14	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	9919	No
GOM_TRA_1PNPDE20040123_013734_000000362023_00346_09919_0018.N1	23-JAN-2004 01:37:34	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	9919	No
GOM_TRA_1PNPDE20040123_014038_000000412023_00346_09919_0019.N1	23-JAN-2004 01:40:38	Bright	40.500	133	40Zet Her	2.8070	6000.0	81	9919	No
GOM_TRA_1PNPDE20040123_014351_000000712023_00346_09919_0020.N1	23-JAN-2004 01:43:51	Bright	71.000	83		2.3780	11000.	142	9919	No
GOM_TRA_1PNPDE20040123_014740_000000352023_00346_09919_0021.N1	23-JAN-2004 01:47:40	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	9919	No
GOM_TRA_1PNPDE20040123_014940_000001262023_00346_09919_0022.N1	23-JAN-2004 01:49:40	Dark	126.00	3	16Alp Boo	-0.050000	4250.0	252	9919	No
GOM_TRA_1PNPDE20040123_015312_000000452023_00346_09919_0023.N1	23-JAN-2004 01:53:12	Dark	45.000	98	13Zet Oph	2.5710	30000.	90	9919	No
GOM_TRA_1PNPDE20040123_015742_000000552023_00346_09919_0024.N1	23-JAN-2004 01:57:42	Dark	54.500	16	21Alp Sco	1.0200	3000.0	109	9919	No
GOM_TRA_1PNPDE20040123_020045_000000402023_00346_09919_0025.N1	23-JAN-2004 02:00:45	Dark	40.000	40	The Sco	1.8590	7100.0	80	9919	No
GOM_TRA_1PNPDE20040123_020313_000000412023_00346_09919_0026.N1	23-JAN-2004 02:03:13	Dark	41.000	131	Gam Lup	2.8000	26000.	82	9919	No
GOM_TRA_1PNPDE20040123_020511_000000442023_00346_09919_0027.N1	23-JAN-2004 02:05:11	Dark	44.000	109	Bet Lup	2.6770	26000.	88	9919	No
GOM_TRA_1PNPDE20040123_020640_000000422023_00347_09920_0028.N1	23-JAN-2004 02:06:40	Dark	42.000	78	Alp Lup	2.3040	28000.	84	9920	No

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



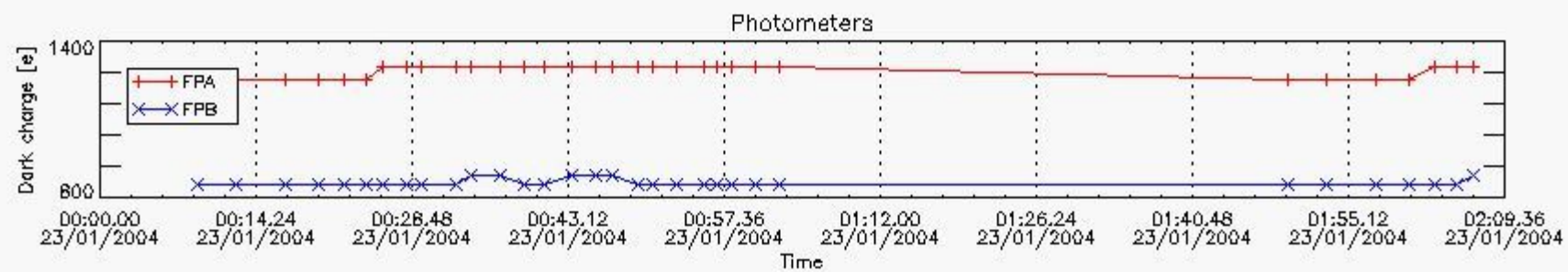
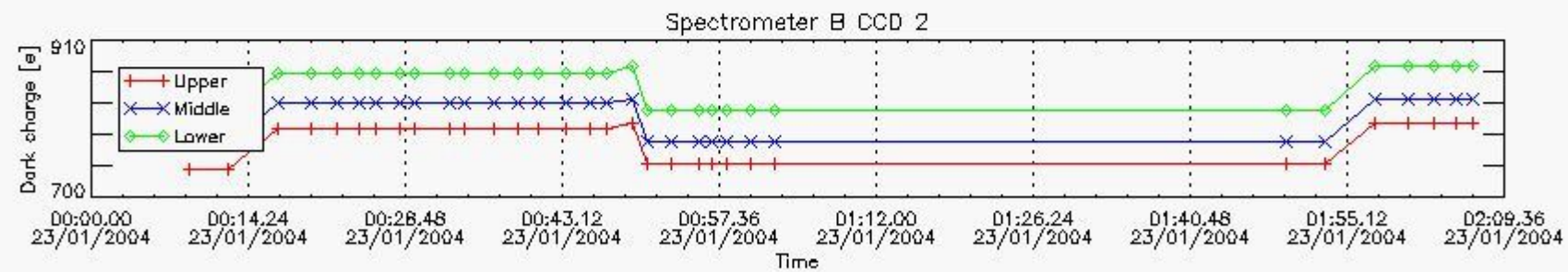
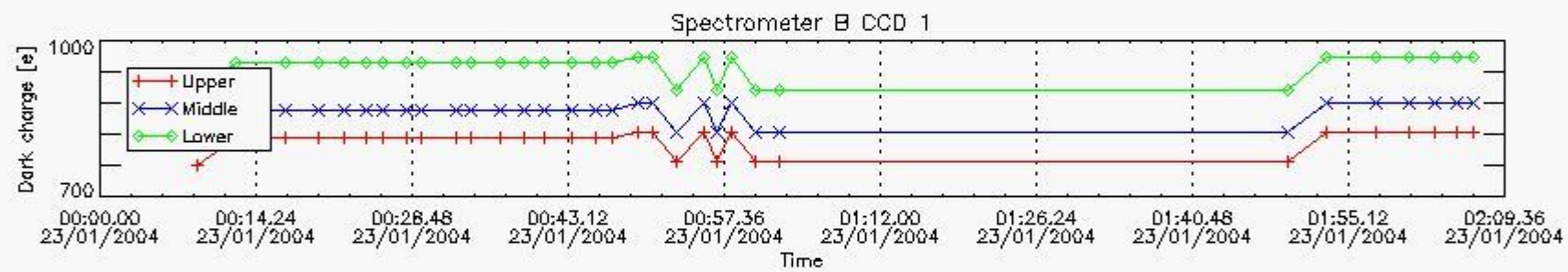
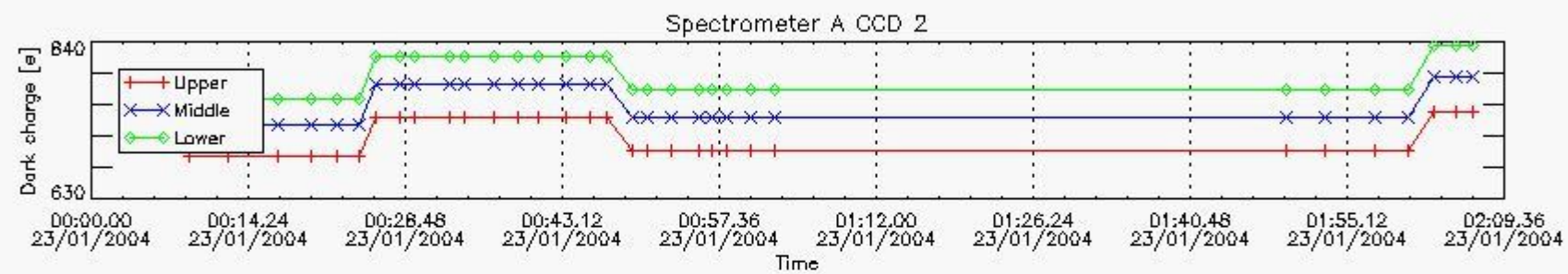
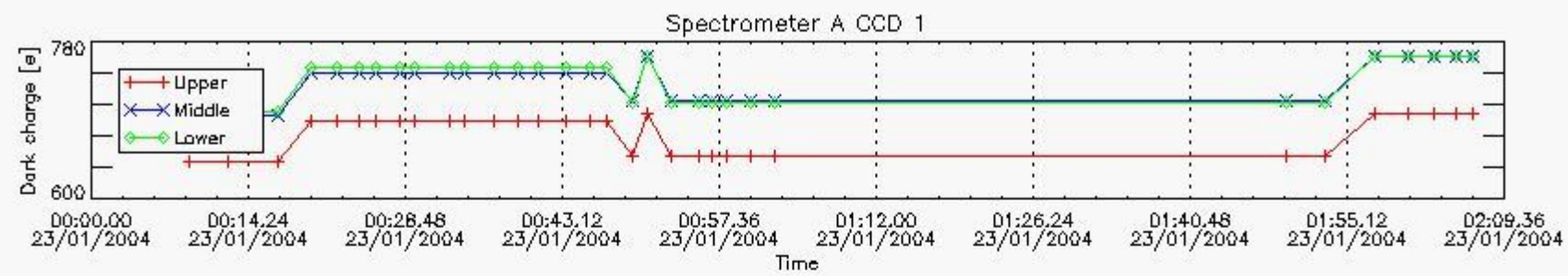
4. Overview of dark signal processing per product

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



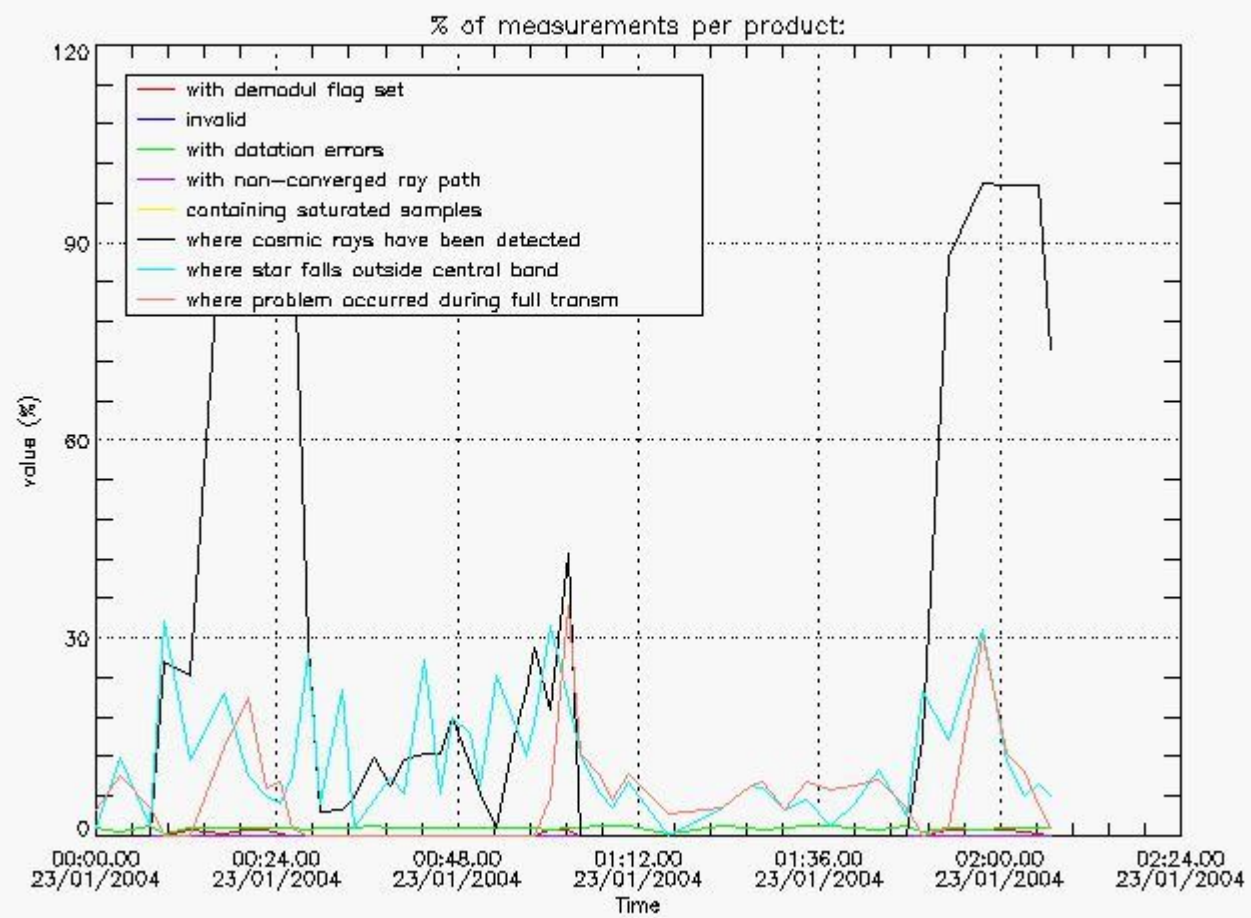
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.6122 %
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



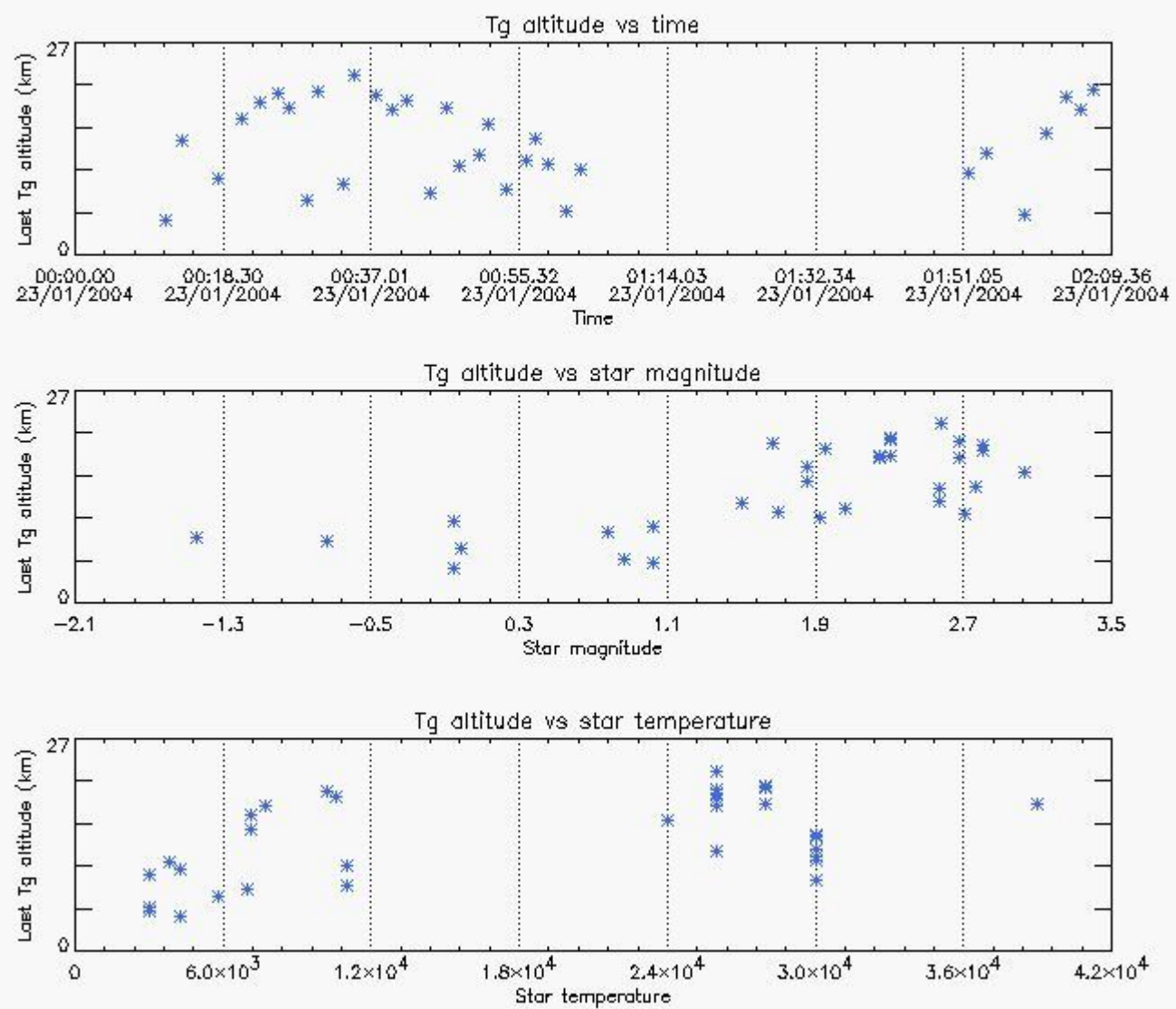
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.250	20.449
St. deviation:	5.3931	3.2066
Maximum:	22.791	26.365
Minimum:	4.4927	15.031
Number of data:	32.000	17.000

6.2 Plot for DARK limb products

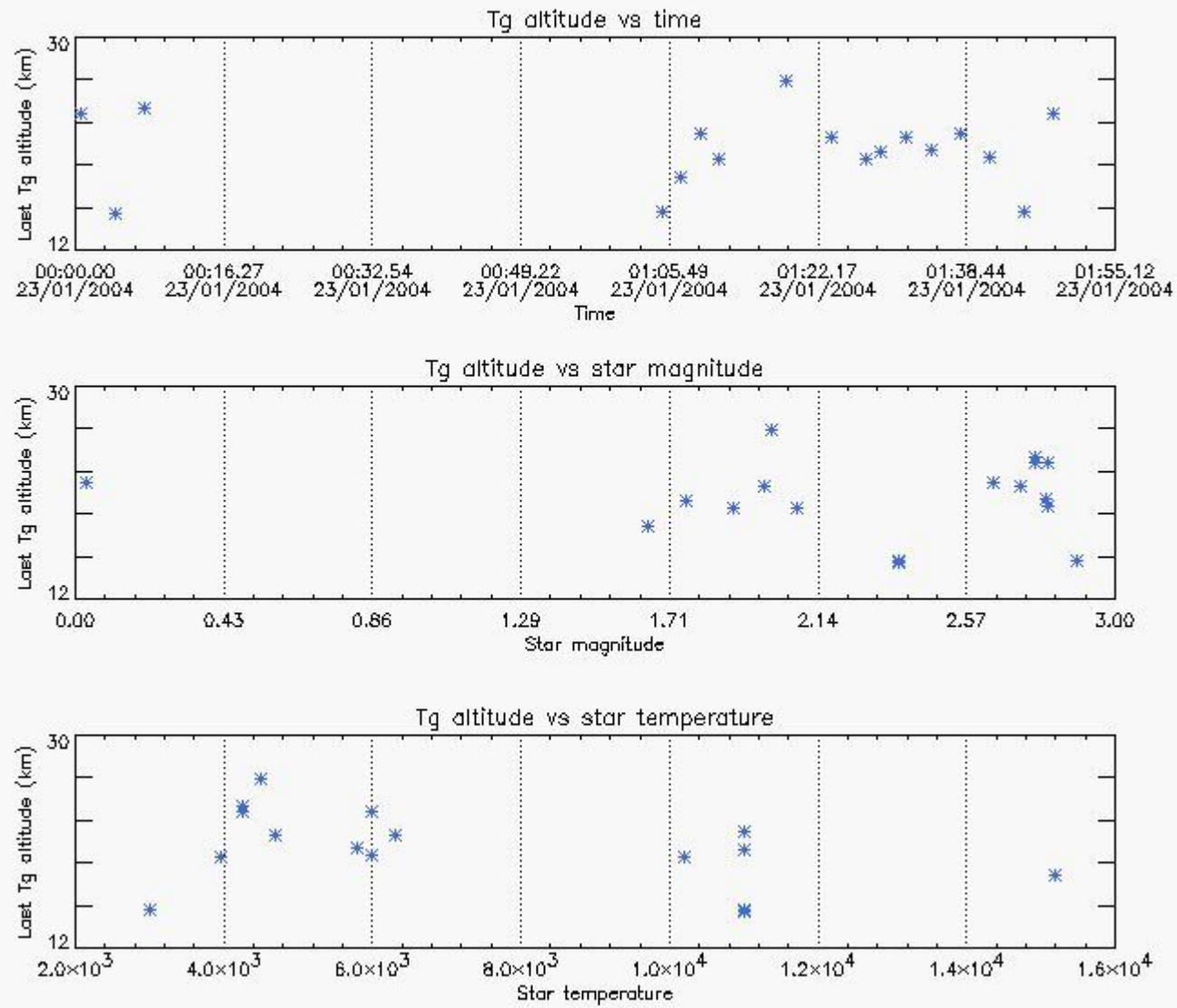
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



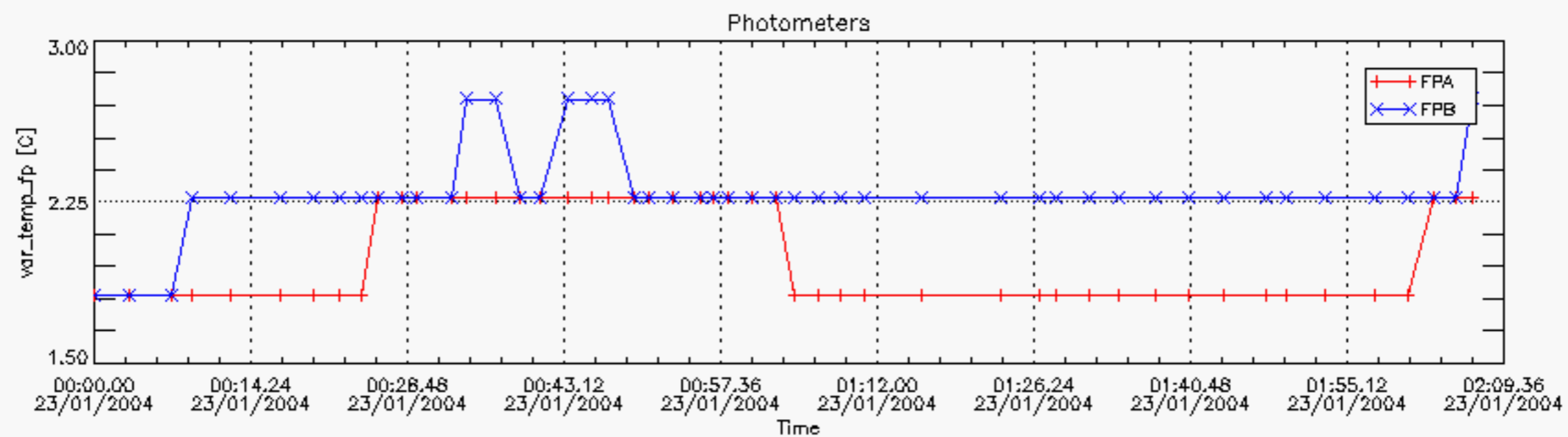
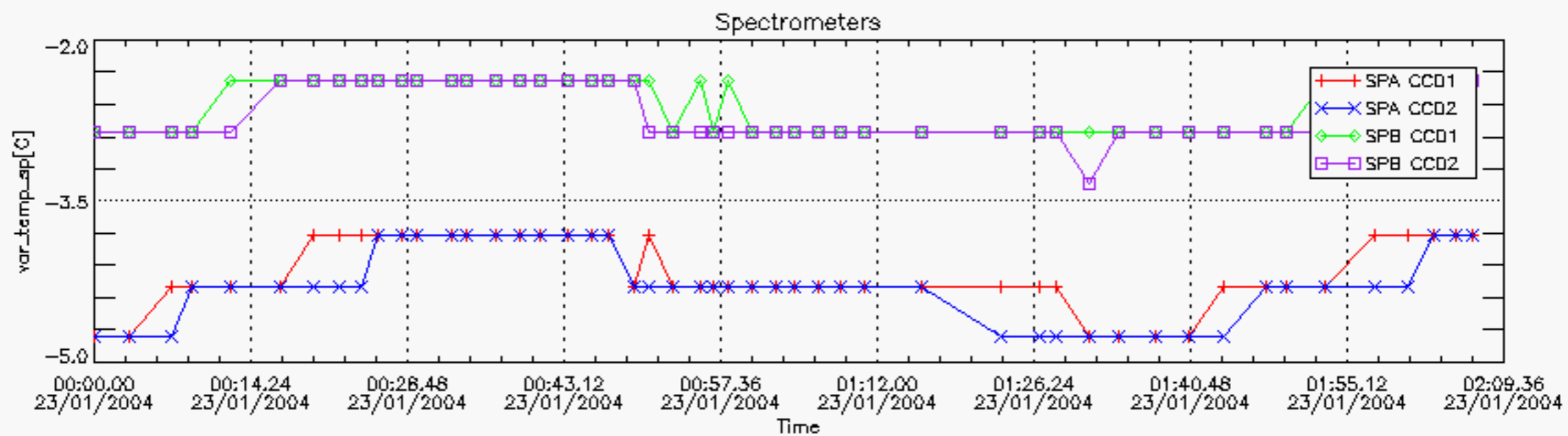
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

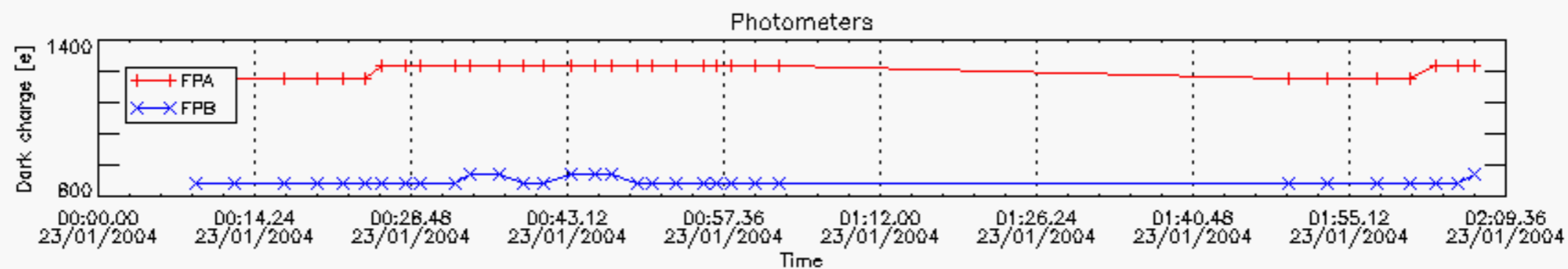
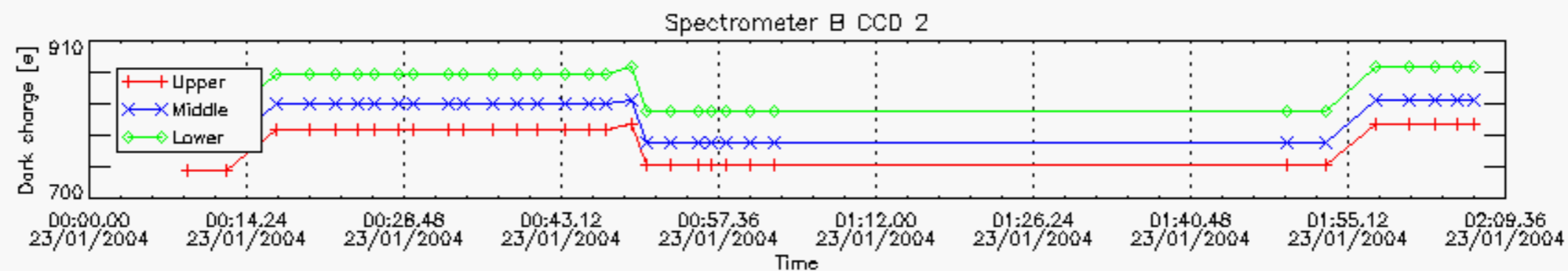
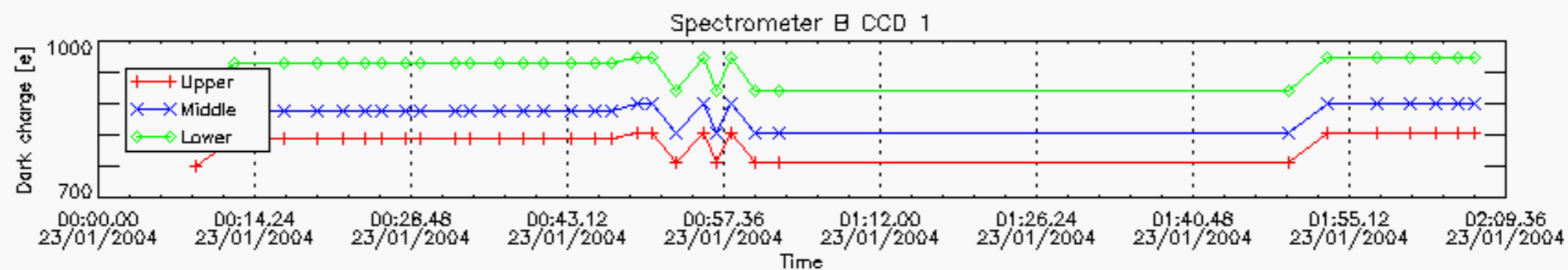
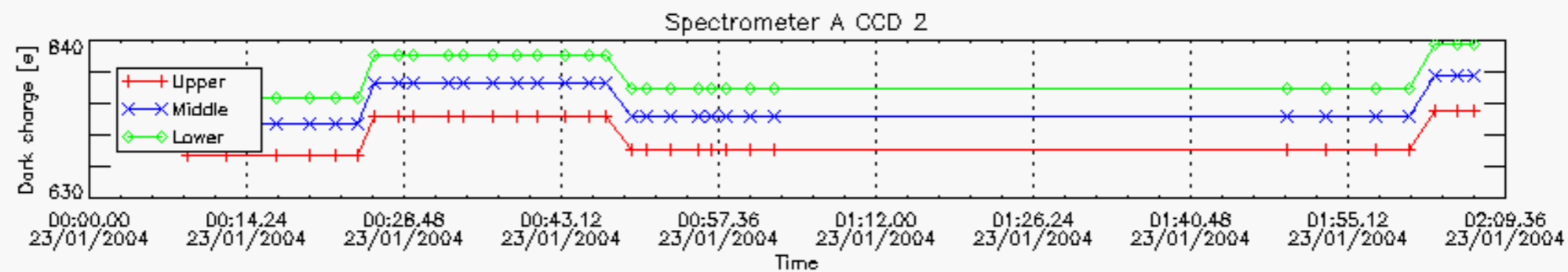
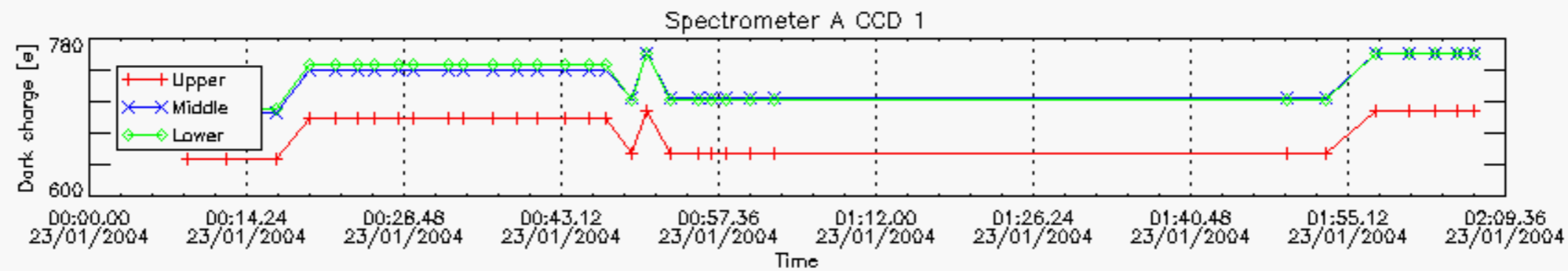
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

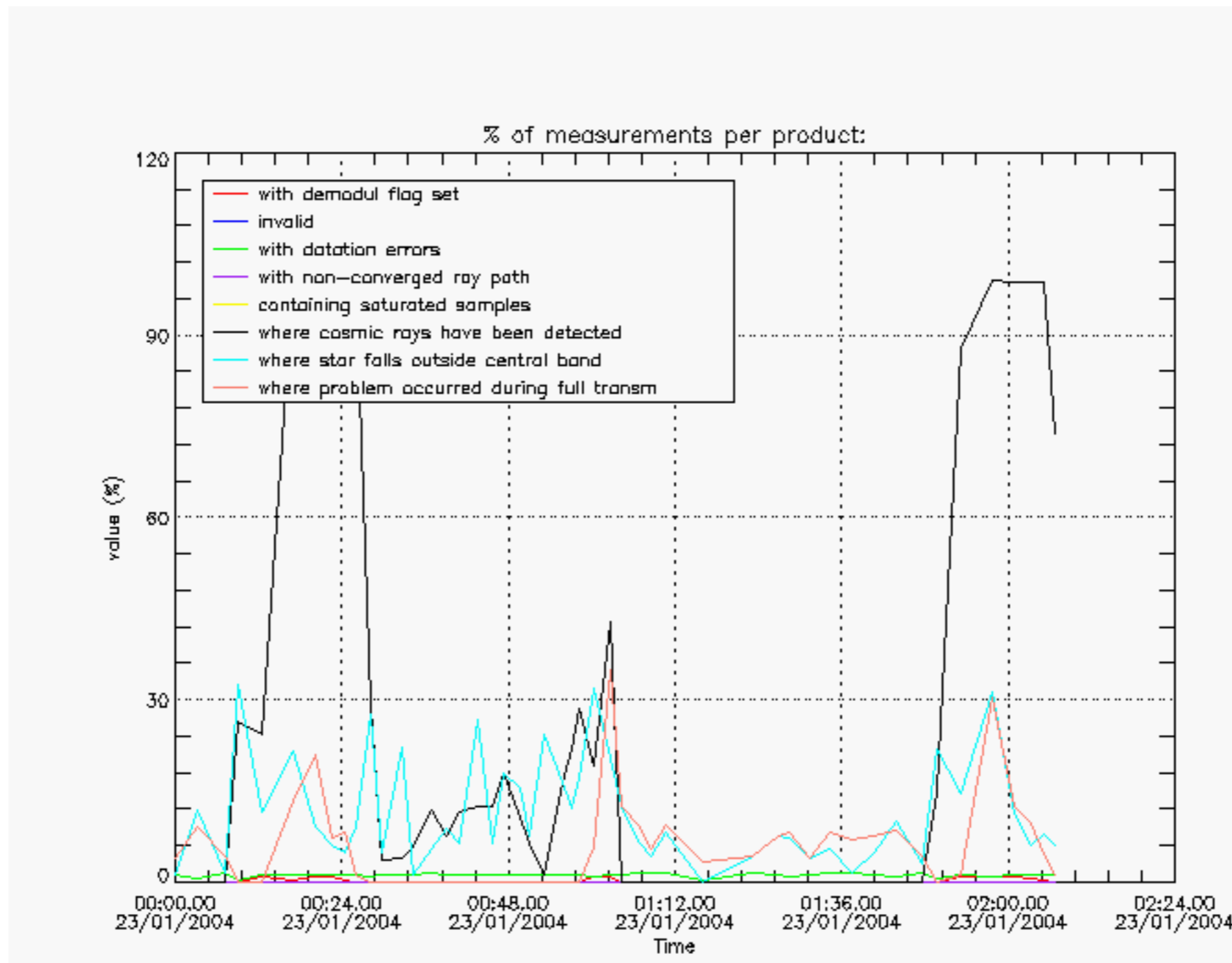
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.9	1446.6	1461.0	1447.3
St. deviation:	6.1341	11.054	6.0132	9.4026
Maximum:	1503.0	1506.0	1504.0	1495.0
Minimum:	1435.0	1408.0	1440.0	1416.0
Number of data:	36050.	36050.	20900.	20900.



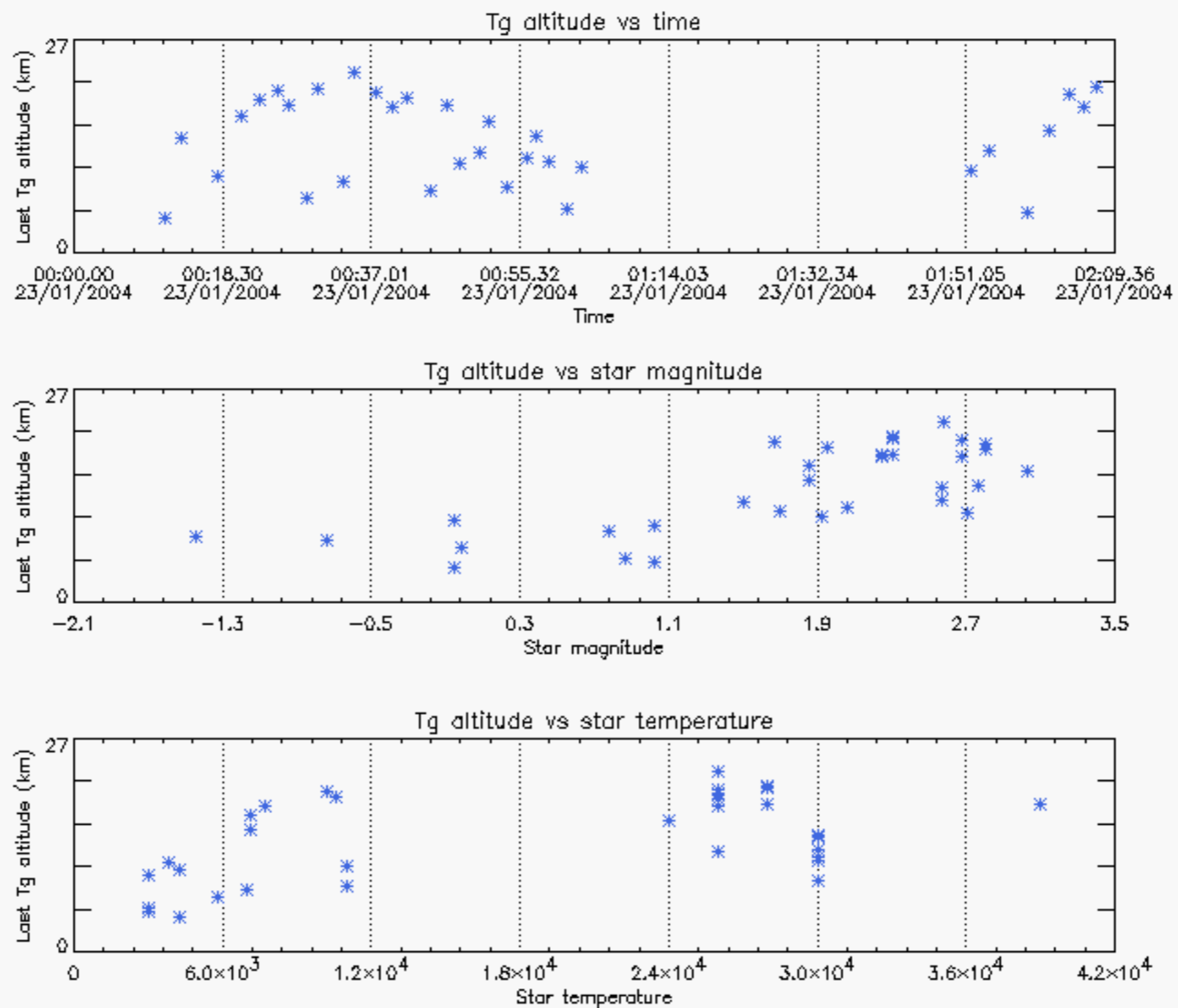




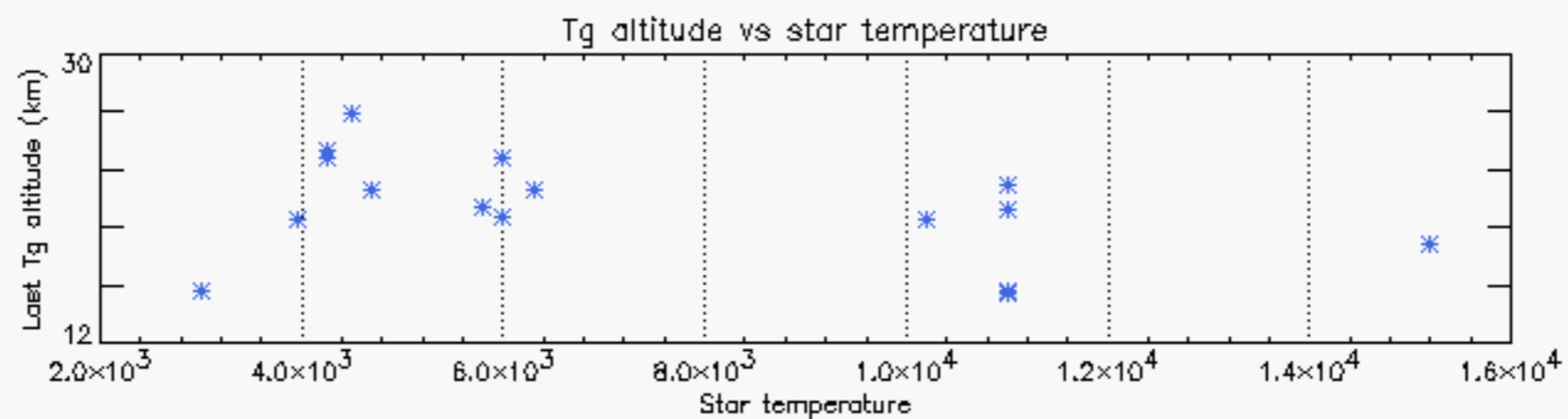
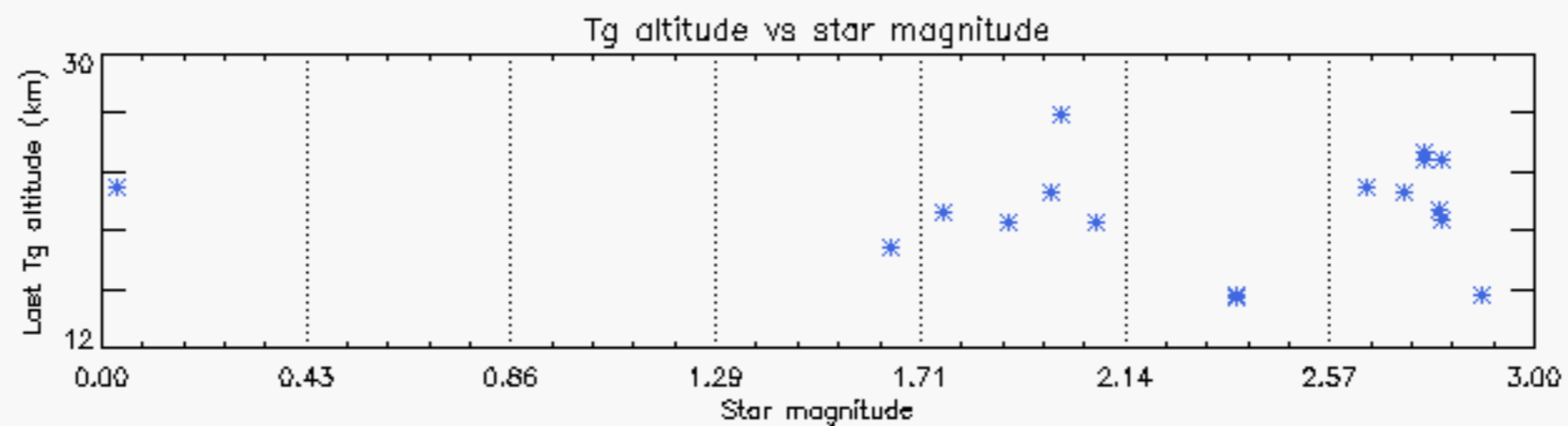
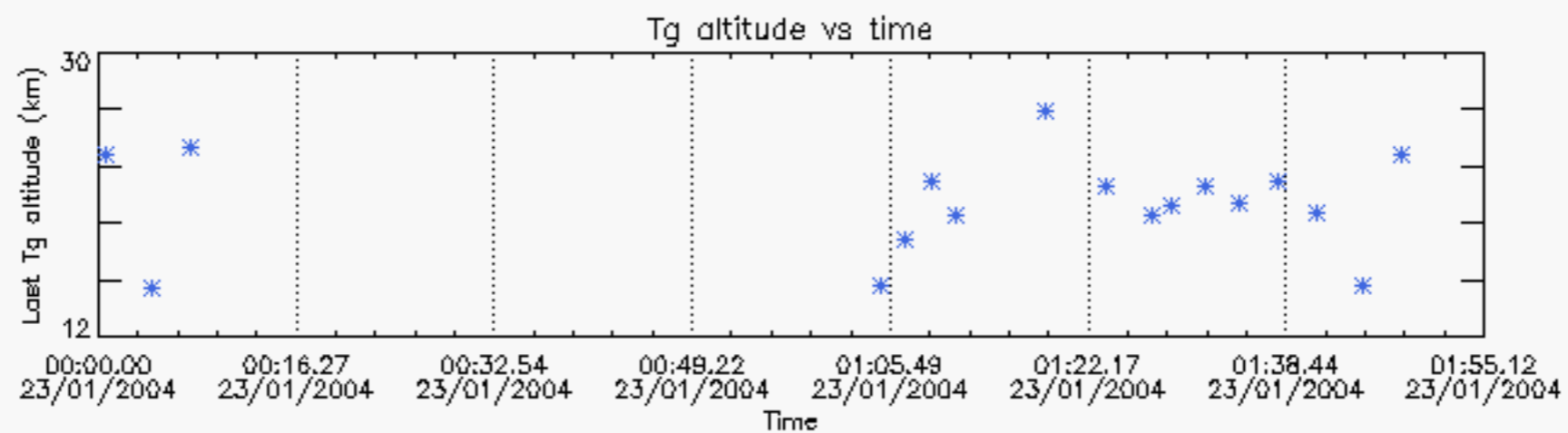




Tangent altitude at which the star is lost



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
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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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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
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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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16;	-1977.9;	06-JAN-2004	10:31:23;	Bright	;	37.5;	130;	23Bet Dra	;	2.80;	5800;	occ;	75;	0;	9681
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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
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36;	1193.0;	06-JAN-2004	11:24:14;	Dark	;	52.0;	117;	Pi Pup	;	2.71;	3800;	occ;	104;	0;	9682
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28; 220.8; 08-JAN-2004 06:43:35; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0; 9708
29; 336.2; 08-JAN-2004 06:45:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9708
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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
32; 679.9; 08-JAN-2004 06:51:15; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0; 9708
33; 765.4; 08-JAN-2004 06:52:40; Dark ; 49.0; 41; Eps Car ; 1.86; 4100;occ; 98; 0; 9708
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36; 1204.5; 08-JAN-2004 06:59:59; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0; 9708
37; 1364.6; 08-JAN-2004 07:02:39; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0; 9708
38; 1453.0; 08-JAN-2004 07:04:08; Dark ; 42.5; 179; 240mi2CMA ; 3.03; 24000;occ; 85; 0; 9708
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5;-3732.8; 08-JAN-2004 07:18:18; Bright; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 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
4;	-4670.1;	08-JAN-2004	18:46:52;	Dark	;	47.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	94;	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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14;	-3461.0;	08-JAN-2004	19:07:01;	Bright	;	51.0;	24;	66Alp Gem	;	1.58;	10200;	occ;	102;	0;	9715
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
21;	-2174.1;	08-JAN-2004	19:28:28;	Bright	;	50.5;	32;	77Eps UMa	;	1.76;	11000;	occ;	101;	0;	9715
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
31;	-140.9;	08-JAN-2004	20:02:21;	Dark	;	44.0;	78;	Alp Lup	;	2.30;	28000;	occ;	88;	0;	9715
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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
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
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6;-3739.2; 11-JAN-2004 07:23:56; Bright; 45.0; 151; 13Mu Gem ; 2.89; 3000;occ; 90; 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
10;-3244.1; 11-JAN-2004 07:32:11; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0; 9751
11;-3106.2; 11-JAN-2004 07:34:28; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0; 9751
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
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15;-2193.9; 11-JAN-2004 07:49:41; Bright; 52.0; 32; 77Eps UMa ; 1.76; 11000;occ; 104; 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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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
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
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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
21;	-1307.1;	11-JAN-2004	11:25:39;	Bright;		35.5;	59;	55Alp Oph	;	2.08;	8900;occ;	71;	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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29;	344.4;	11-JAN-2004	11:53:11;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	9754
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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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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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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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 33; 348.1; 11-JAN-2004 18:35:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9758
 34; 504.7; 11-JAN-2004 18:38:15; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0; 9758
 35; 596.9; 11-JAN-2004 18:39:47; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0; 9758
 36; 703.7; 11-JAN-2004 18:41:34; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0; 9758
 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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7;	-3992.2;	19-JAN-2004	14:50:55;	Dark	;	52.0;	14;	58Alp Ori	;	0.87;	3000;occ;	104;	0;	9870
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11;	-3495.8;	19-JAN-2004	14:59:12;	Bright;	;	37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	9870
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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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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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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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26;	-37.9;	28-JAN-2004	07:51:05;	Dark	;	47.0;	109;	Bet	Lup	;	2.68;	26000;occ;	94;	0;	9994
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