

GOMOS Daily Report 26-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	27JAN2004 06:54:19
Data source version	<Any version>
Start time of products	26-JAN-2004 (26JAN2004 00:00:00)
Stop time of products	27-JAN-2004 (27JAN2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

2. Summary of products arrived in PCF

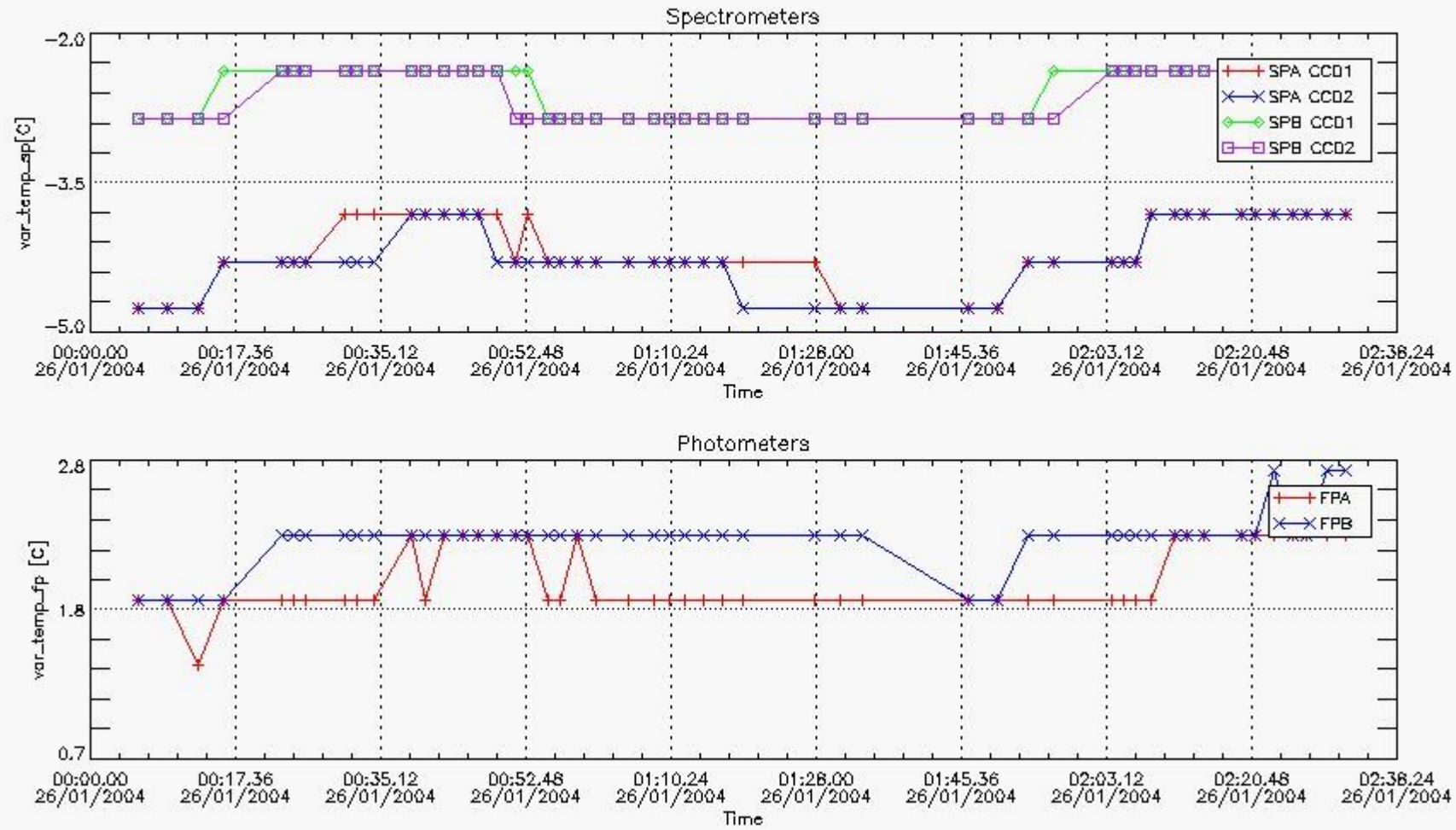
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040126_000554_000000412023_00388_09961_0014.N1	26-JAN-2004 00:05:54	Bright	41.000	133	40Zet Her	2.8070	6000.0	82	9961	No
GOM_TRA_1PNPDE20040126_000920_000000742023_00388_09961_0015.N1	26-JAN-2004 00:09:20	Bright	73.500	83		2.3780	11000.	147	9961	No
GOM_TRA_1PNPDE20040126_001259_000000372023_00388_09961_0016.N1	26-JAN-2004 00:12:59	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	9961	No
GOM_TRA_1PNPDE20040126_001605_000001972023_00388_09961_0017.N1	26-JAN-2004 00:16:05	Dark	197.00	3	16Alp Boo	-0.050000	4250.0	394	9961	No
GOM_TRA_1PNPDE20040126_002311_000000562023_00388_09961_0018.N1	26-JAN-2004 00:23:11	Dark	56.000	16	21Alp Sco	1.0200	3000.0	112	9961	No
GOM_TRA_1PNPDE20040126_002438_000000482023_00388_09961_0019.N1	26-JAN-2004 00:24:38	Dark	47.500	75	26Eps Sco	2.2910	4250.0	95	9961	No
GOM_TRA_1PNPDE20040126_002601_000000472023_00388_09961_0020.N1	26-JAN-2004 00:26:01	Dark	46.500	40	The Sco	1.8590	7100.0	93	9961	No
GOM_TRA_1PNPDE20040126_003052_000000452023_00388_09961_0021.N1	26-JAN-2004 00:30:52	Dark	44.500	109	Bet Lup	2.6770	26000.	89	9961	No
GOM_TRA_1PNPDE20040126_003220_000000452023_00389_09962_0022.N1	26-JAN-2004 00:32:20	Dark	45.000	78	Alp Lup	2.3040	28000.	90	9962	No
GOM_TRA_1PNPDE20040126_003420_000000522023_00389_09962_0023.N1	26-JAN-2004 00:34:20	Dark	51.500	4	Alp1Cen	-0.010000	5800.0	103	9962	No
GOM_TRA_1PNPDE20040126_003854_000000422023_00389_09962_0024.N1	26-JAN-2004 00:38:54	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	9962	No
GOM_TRA_1PNPDE20040126_004032_000000472023_00389_09962_0025.N1	26-JAN-2004 00:40:32	Dark	47.000	99	Del Cen	2.5750	26000.	94	9962	No
GOM_TRA_1PNPDE20040126_004253_000000422023_00389_09962_0026.N1	26-JAN-2004 00:42:53	Dark	41.500	29	Bet Car	1.6720	10200.	83	9962	No
GOM_TRA_1PNPDE20040126_004507_000000422023_00389_09962_0027.N1	26-JAN-2004 00:45:07	Dark	41.500	71	lot Car	2.2460	7700.0	83	9962	No
GOM_TRA_1PNPDE20040126_004655_000000402023_00389_09962_0028.N1	26-JAN-2004 00:46:55	Dark	40.000	46	Del Vel	1.9540	10600.	80	9962	No
GOM_TRA_1PNPDE20040126_004920_000000522023_00389_09962_0029.N1	26-JAN-2004 00:49:20	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	9962	No
GOM_TRA_1PNPDE20040126_005136_000000432023_00389_09962_0030.N1	26-JAN-2004 00:51:36	Dark	42.500	70	Zet Pup	2.2460	39000.	85	9962	No
GOM_TRA_1PNPDE20040126_005303_000000432023_00389_09962_0031.N1	26-JAN-2004 00:53:03	Dark	43.000	117	Pi Pup	2.7060	3800.0	86	9962	No
GOM_TRA_1PNPDE20040126_005533_000000432023_00389_09962_0000.N1	26-JAN-2004 00:55:33	Dark	43.000	23	21Eps CMa	1.5020	26000.	86	9962	No
GOM_TRA_1PNPDE20040126_005656_000000412023_00389_09962_0001.N1	26-JAN-2004 00:56:56	Dark	40.500	179	24Omi2CMa	3.0320	24000.	81	9962	No
GOM_TRA_1PNPDE20040126_005906_000000462023_00389_09962_0002.N1	26-JAN-2004 00:59:06	Dark	45.500	1	9Alp CMa	-1.4400	11000.	91	9962	No
GOM_TRA_1PNPDE20040126_010112_000000692023_00389_09962_0003.N1	26-JAN-2004 01:01:12	Dark	68.500	48	30Alp Hya	1.9770	4100.0	137	9962	No
GOM_TRA_1PNPDE20040126_010508_000000562023_00389_09962_0004.N1	26-JAN-2004 01:05:08	Dark	56.000	8	10Alp CMi	0.40000	6500.0	112	9962	No
GOM_TRA_1PNPDE20040126_010822_000000432023_00389_09962_0005.N1	26-JAN-2004 01:08:22	Bright	43.000	44	24Gam Gem	1.9280	11000.	86	9962	No
GOM_TRA_1PNPDE20040126_011011_000000402023_00389_09962_0006.N1	26-JAN-2004 01:10:11	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	9962	No
GOM_TRA_1PNPDE20040126_011208_000000452023_00389_09962_0007.N1	26-JAN-2004 01:12:08	Bright	44.500	17	78Bet Gem	1.1610	4500.0	89	9962	No
GOM_TRA_1PNPDE20040126_011425_000000392023_00389_09962_0008.N1	26-JAN-2004 01:14:25	Bright	38.500	107	37The Aur	2.6490	11000.	77	9962	No
GOM_TRA_1PNPDE20040126_011632_000000402023_00389_09962_0009.N1	26-JAN-2004 01:16:32	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	9962	No
GOM_TRA_1PNPDE20040126_011911_000001232023_00389_09962_0010.N1	26-JAN-2004 01:19:11	Bright	122.50	51	41Gam1Leo	2.0100	4500.0	245	9962	No
GOM_TRA_1PNPDE20040126_012745_000000462023_00389_09962_0011.N1	26-JAN-2004 01:27:45	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	9962	No
GOM_TRA_1PNPDE20040126_013047_000000582023_00389_09962_0012.N1	26-JAN-2004 01:30:47	Bright	58.000	87	64Gam UMa	2.4330	11000.	116	9962	No
GOM_TRA_1PNPDE20040126_013339_000000552023_00389_09962_0013.N1	26-JAN-2004 01:33:39	Bright	55.000	32	77Eps UMa	1.7630	11000.	110	9962	No
GOM_TRA_1PNPDE20040126_014630_000000412023_00389_09962_0014.N1	26-JAN-2004 01:46:30	Bright	41.000	133	40Zet Her	2.8070	6000.0	82	9962	No
GOM_TRA_1PNPDE20040126_014956_000000772023_00389_09962_0015.N1	26-JAN-2004 01:49:56	Bright	76.500	83		2.3780	11000.	153	9962	No
GOM_TRA_1PNPDE20040126_015335_000000372023_00389_09962_0016.N1	26-JAN-2004 01:53:35	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	9962	No
GOM_TRA_1PNPDE20040126_015643_000001982023_00389_09962_0017.N1	26-JAN-2004 01:56:43	Dark	198.00	3	16Alp Boo	-0.050000	4250.0	396	9962	No
GOM_TRA_1PNPDE20040126_020349_000000502023_00389_09962_0018.N1	26-JAN-2004 02:03:49	Dark	50.000	16	21Alp Sco	1.0200	3000.0	100	9962	No
GOM_TRA_1PNPDE20040126_020513_000000452023_00389_09962_0019.N1	26-JAN-2004 02:05:13	Dark	44.500	75	26Eps Sco	2.2910	4250.0	89	9962	No
GOM_TRA_1PNPDE20040126_020637_000000422023_00389_09962_0020.N1	26-JAN-2004 02:06:37	Dark	42.000	40	The Sco	1.8590	7100.0	84	9962	No
GOM_TRA_1PNPDE20040126_020833_000000382023_00389_09962_0021.N1	26-JAN-2004 02:08:33	Dark	37.500	147	Alp Ara	2.8770	26000.	75	9962	No
GOM_TRA_1PNPDE20040126_021127_000000482023_00389_09962_0022.N1	26-JAN-2004 02:11:27	Dark	47.500	109	Bet Lup	2.6770	26000.	95	9962	No
GOM_TRA_1PNPDE20040126_021257_000000462023_00390_09963_0023.N1	26-JAN-2004 02:12:57	Dark	45.500	78	Alp Lup	2.3040	28000.	91	9963	No
GOM_TRA_1PNPDE20040126_021458_000000432023_00390_09963_0024.N1	26-JAN-2004 02:14:58	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	9963	No
GOM_TRA_1PNPDE20040126_021931_000000432023_00390_09963_0025.N1	26-JAN-2004 02:19:31	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	9963	No
GOM_TRA_1PNPDE20040126_022109_000000472023_00390_09963_0026.N1	26-JAN-2004 02:21:09	Dark	47.000	99	Del Cen	2.5750	26000.	94	9963	No
GOM_TRA_1PNPDE20040126_022330_000000482023_00390_09963_0027.N1	26-JAN-2004 02:23:30	Dark	47.500	29	Bet Car	1.6720	10200.	95	9963	No
GOM_TRA_1PNPDE20040126_022543_000000412023_00390_09963_0028.N1	26-JAN-2004 02:25:43	Dark	41.000	71	lot Car	2.2460	7700.0	82	9963	No
GOM_TRA_1PNPDE20040126_022731_000000412023_00390_09963_0029.N1	26-JAN-2004 02:27:31	Dark	40.500	46	Del Vel	1.9540	10600.	81	9963	No
GOM_TRA_1PNPDE20040126_022956_000000512023_00390_09963_0030.N1	26-JAN-2004 02:29:56	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	9963	No
GOM_TRA_1PNPDE20040126_023211_000000452023_00390_09963_0031.N1	26-JAN-2004 02:32:11	Dark	44.500	70	Zet Pup	2.2460	39000.	89	9963	No

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



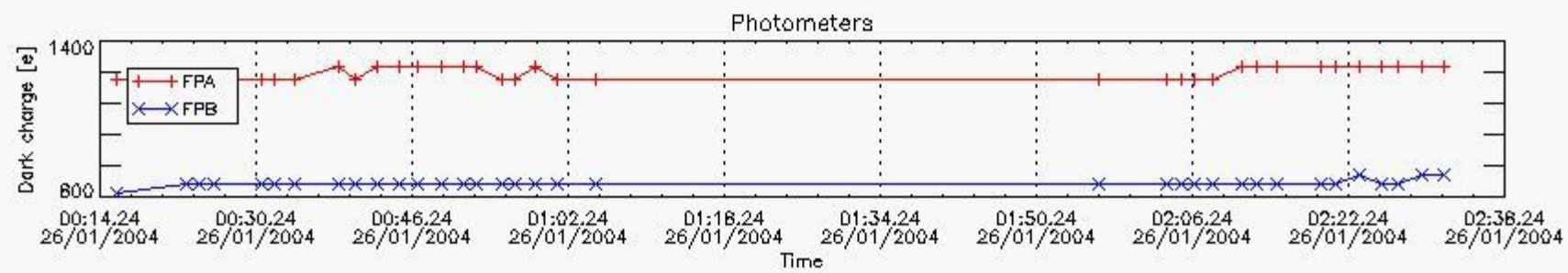
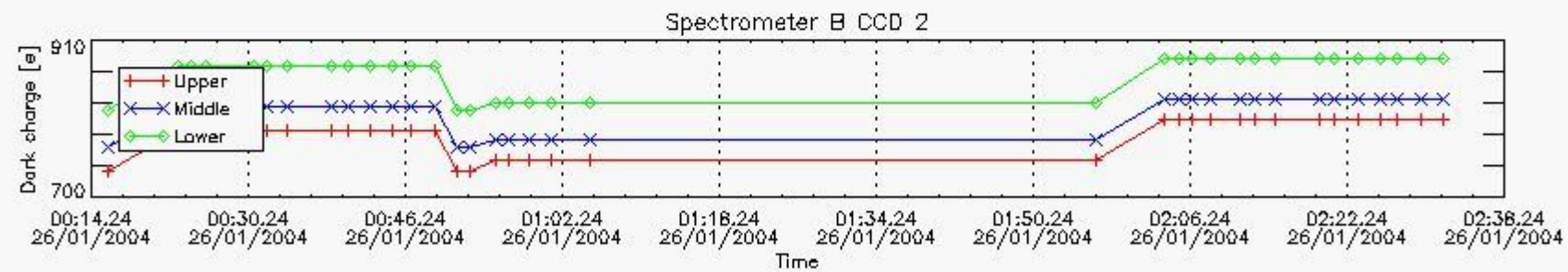
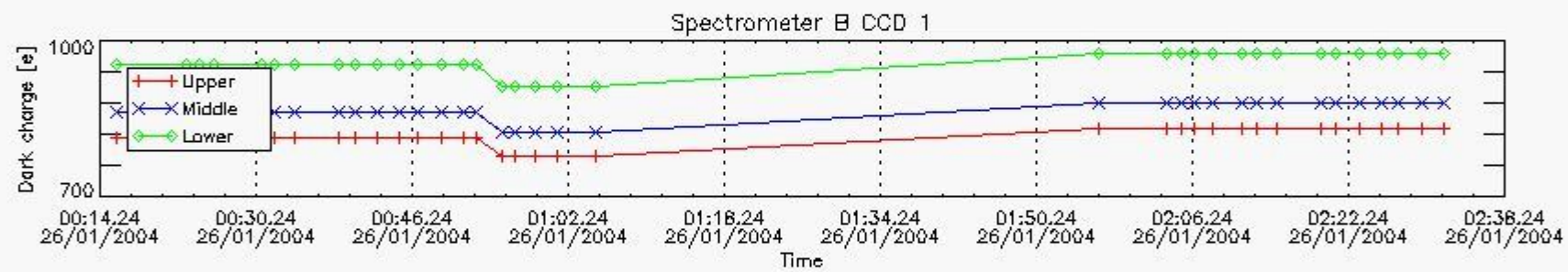
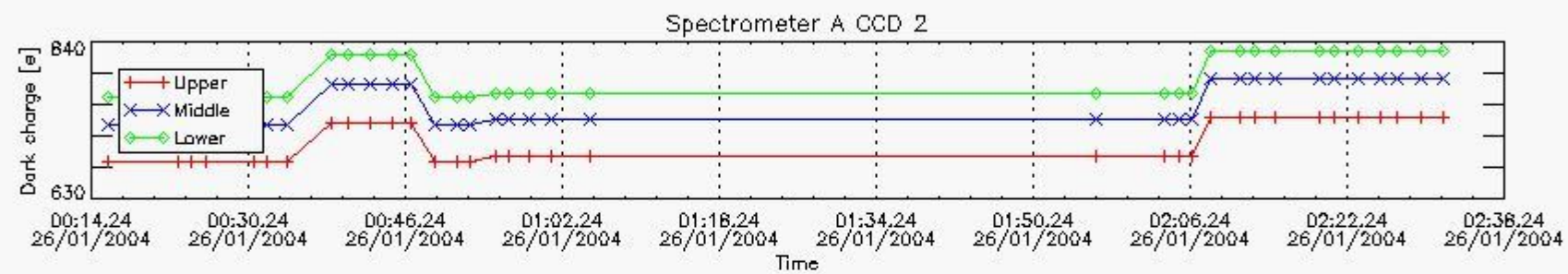
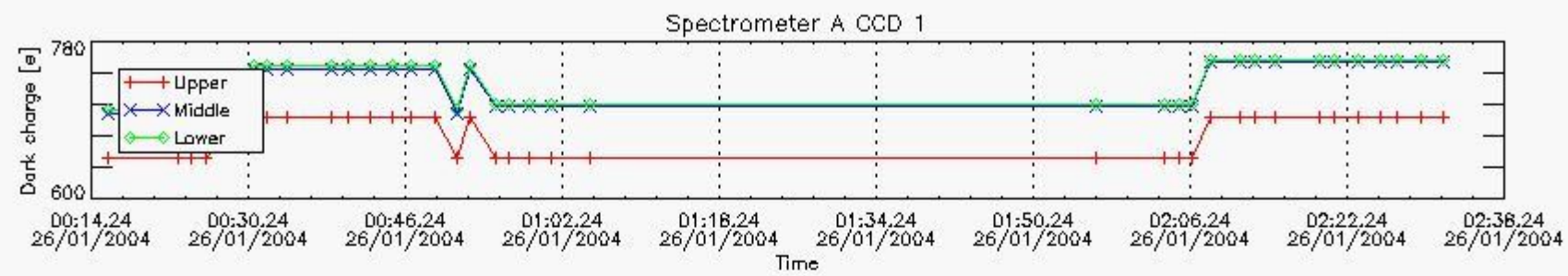
4. Overview of dark signal processing per product

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

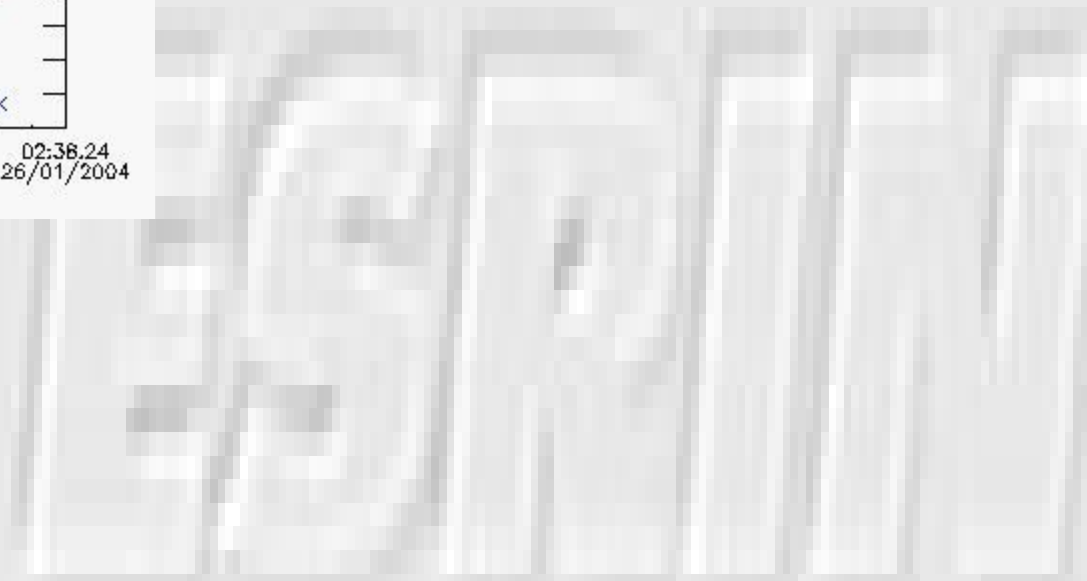
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



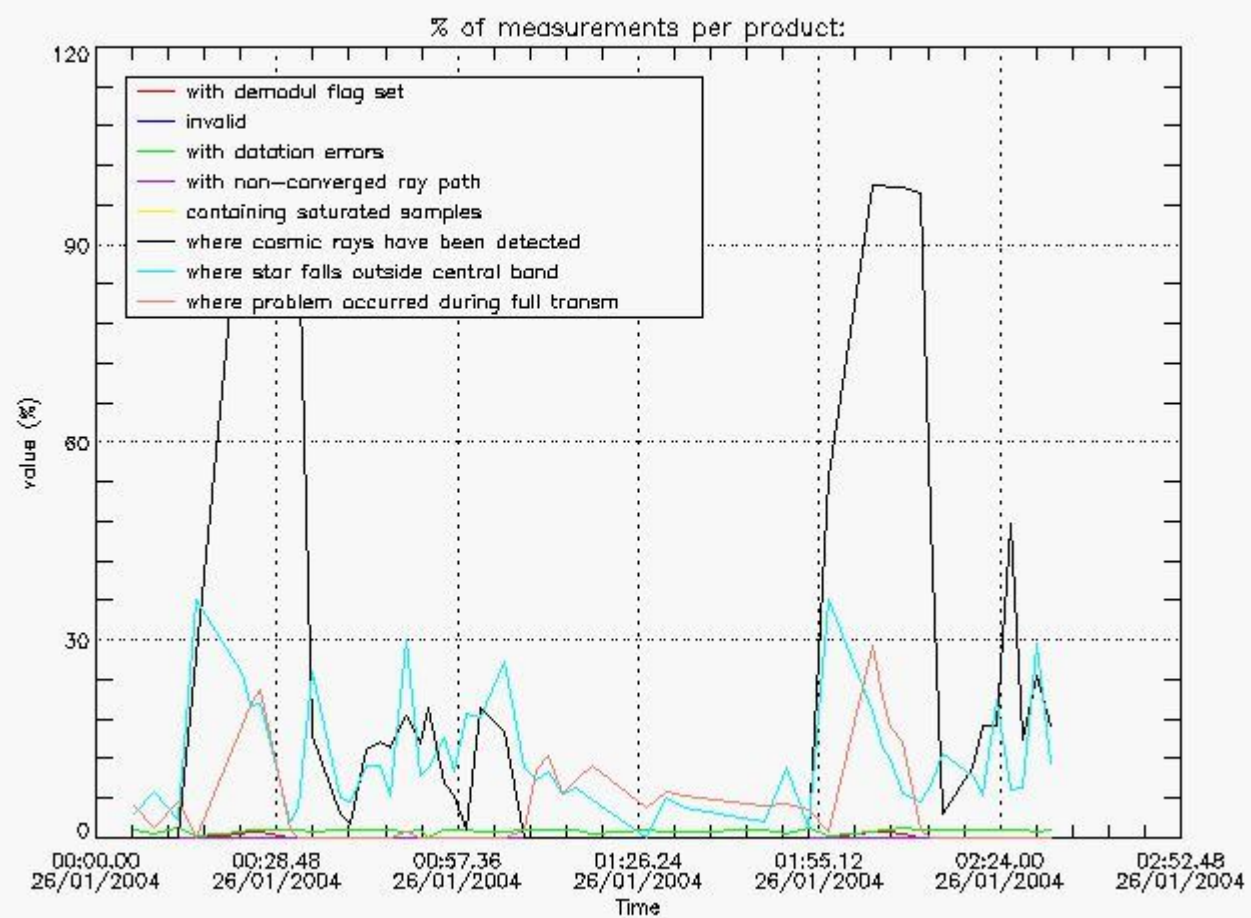
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.0000 %
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



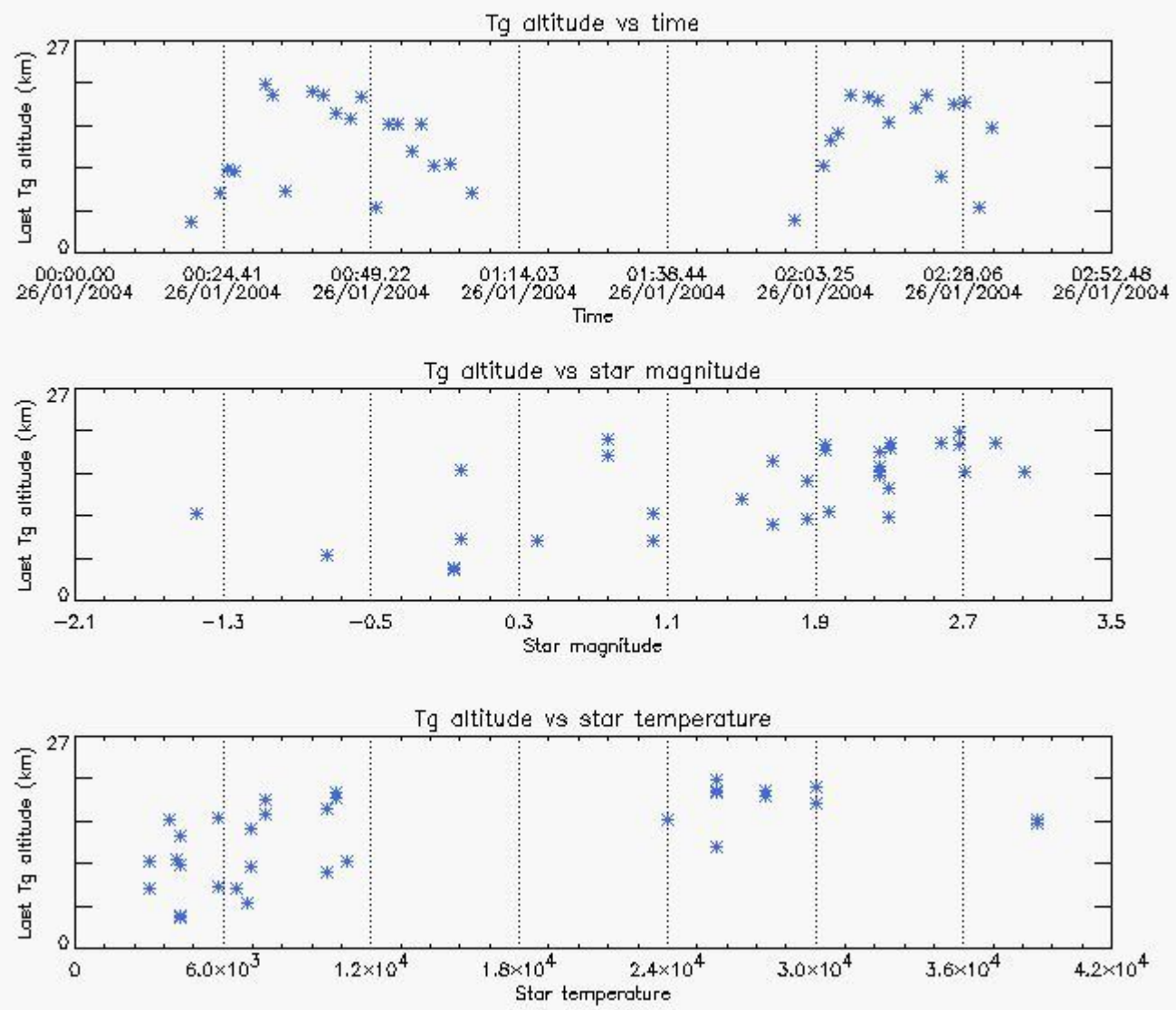
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.399	19.741
St. deviation:	5.3841	2.7277
Maximum:	21.505	24.289
Minimum:	3.9147	15.698
Number of data:	35.000	15.000

6.2 Plot for DARK limb products

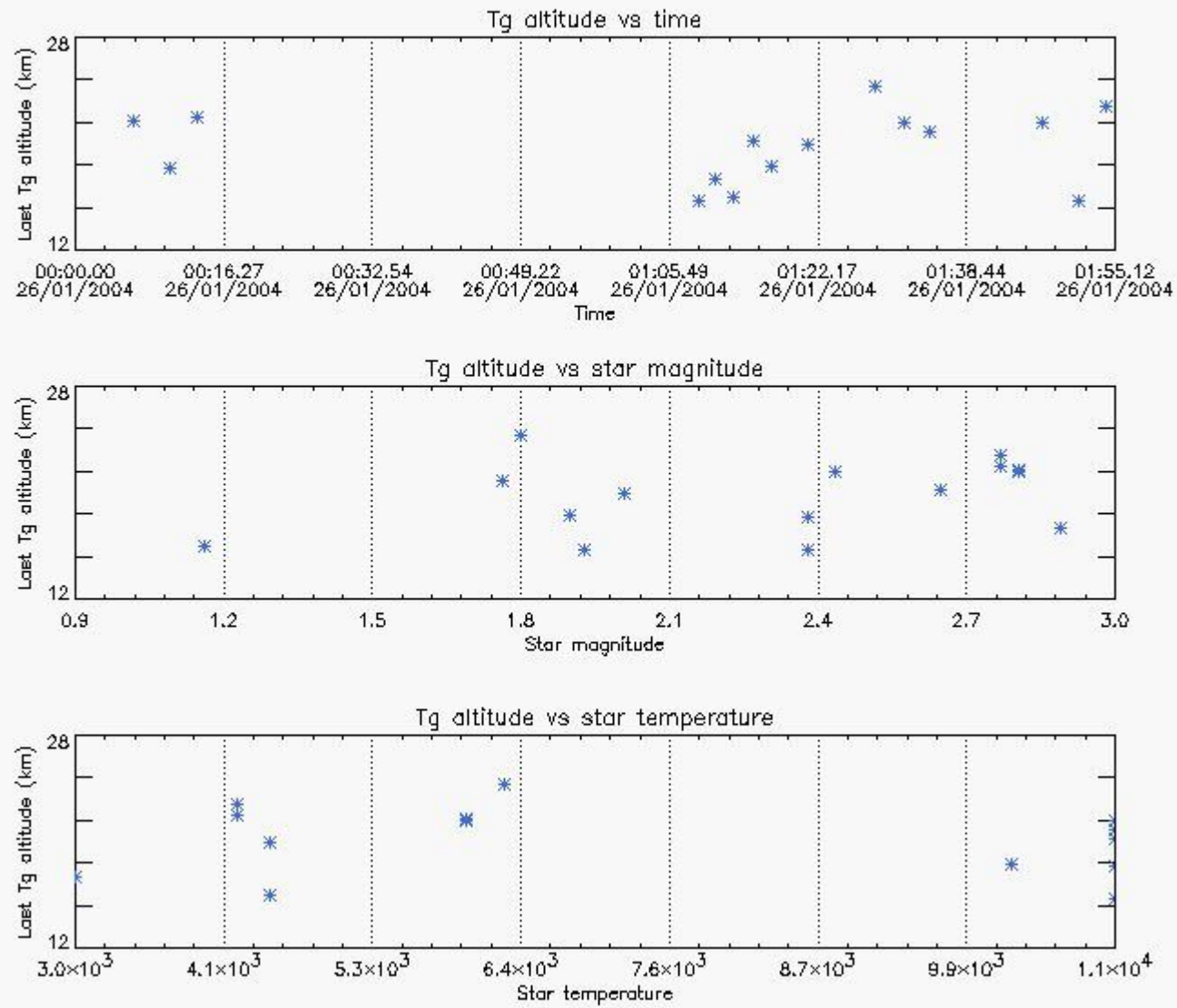
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



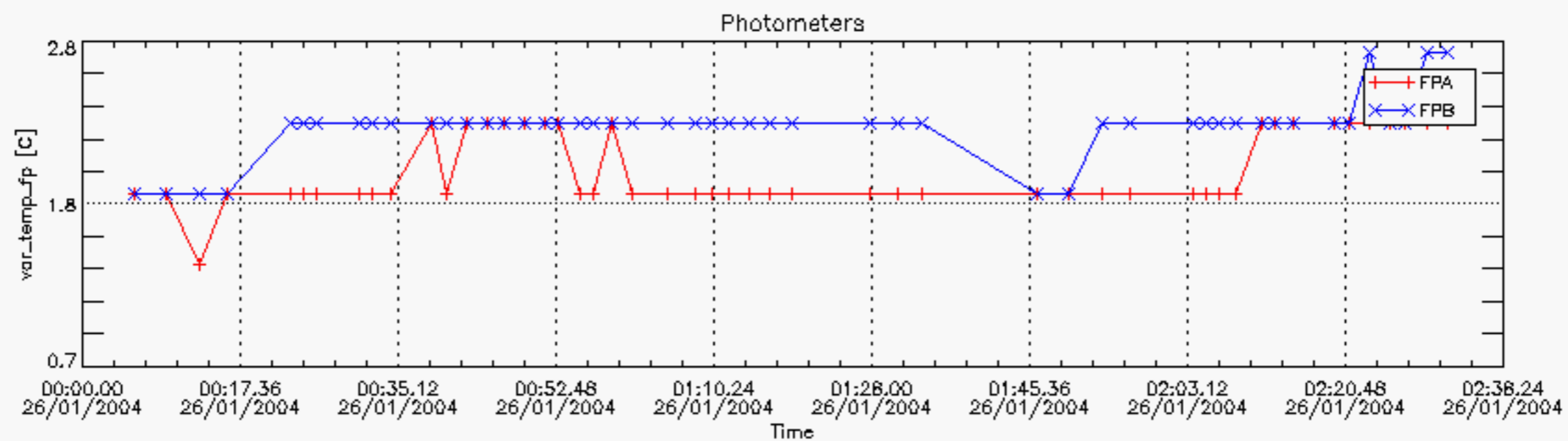
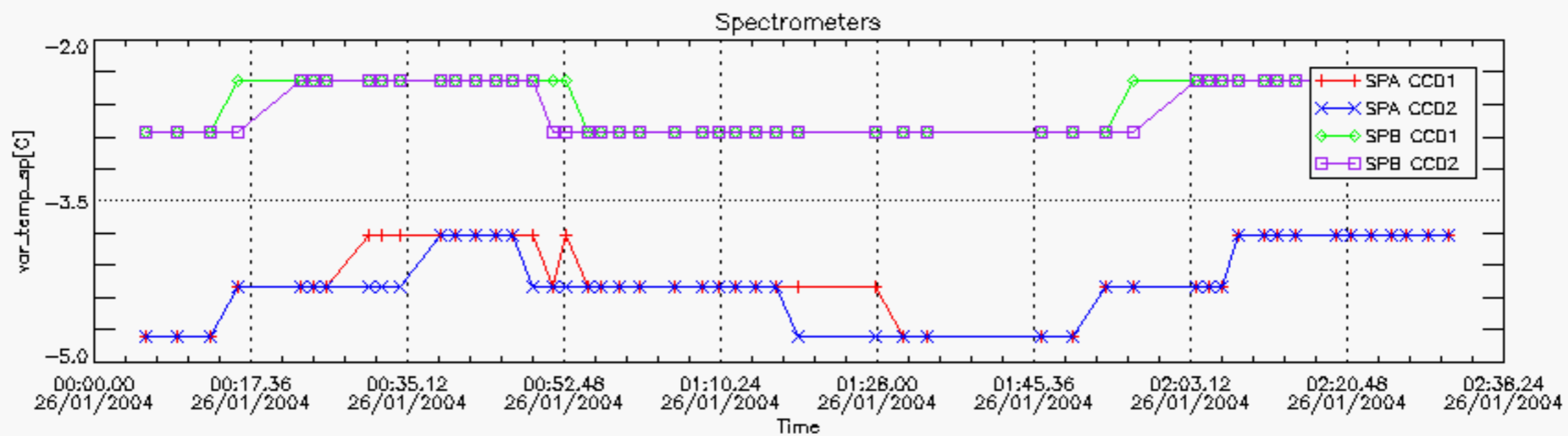
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

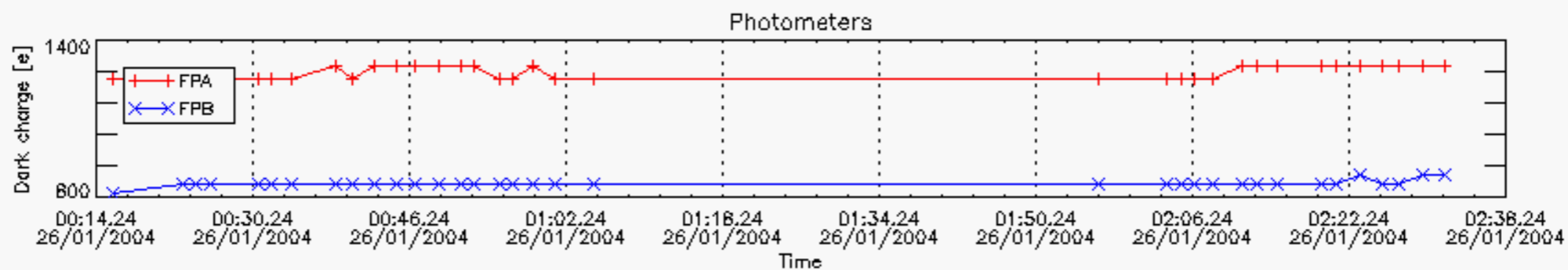
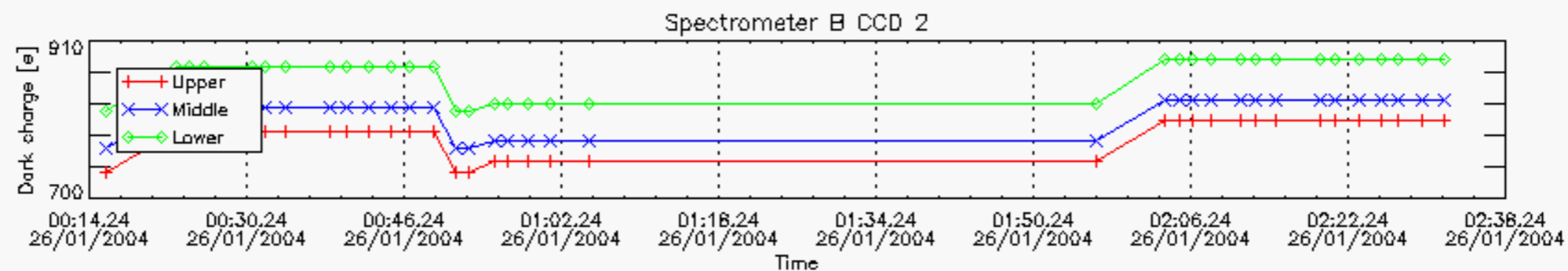
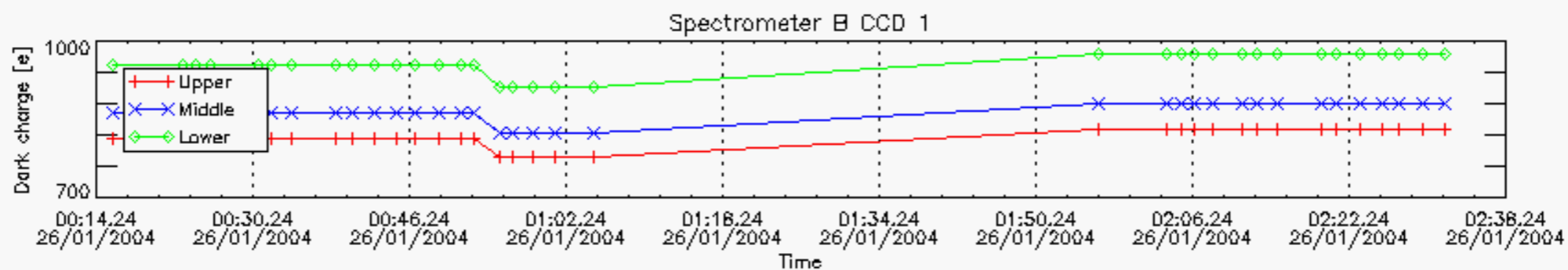
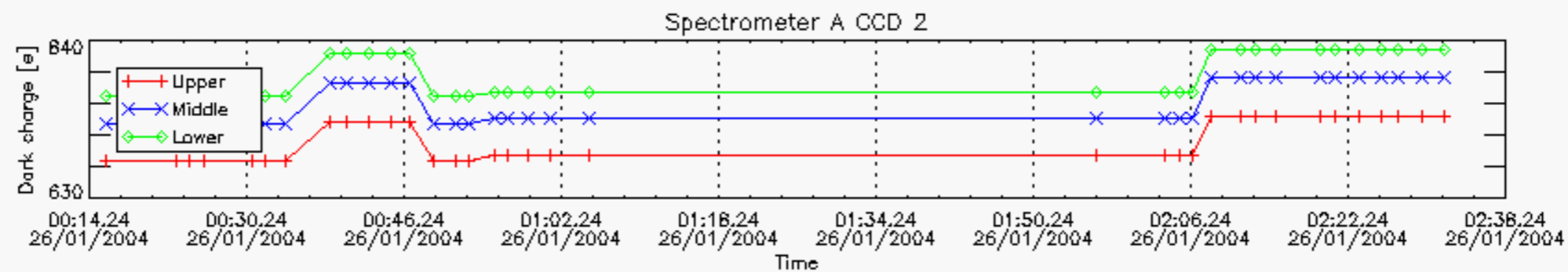
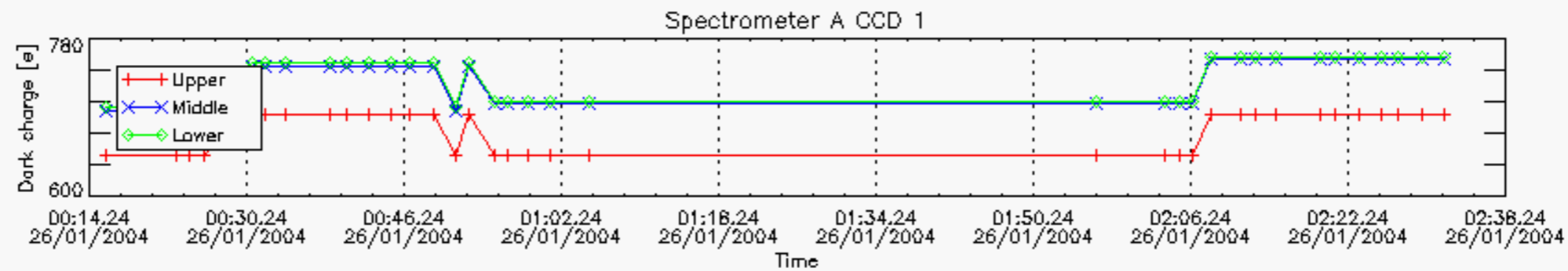
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

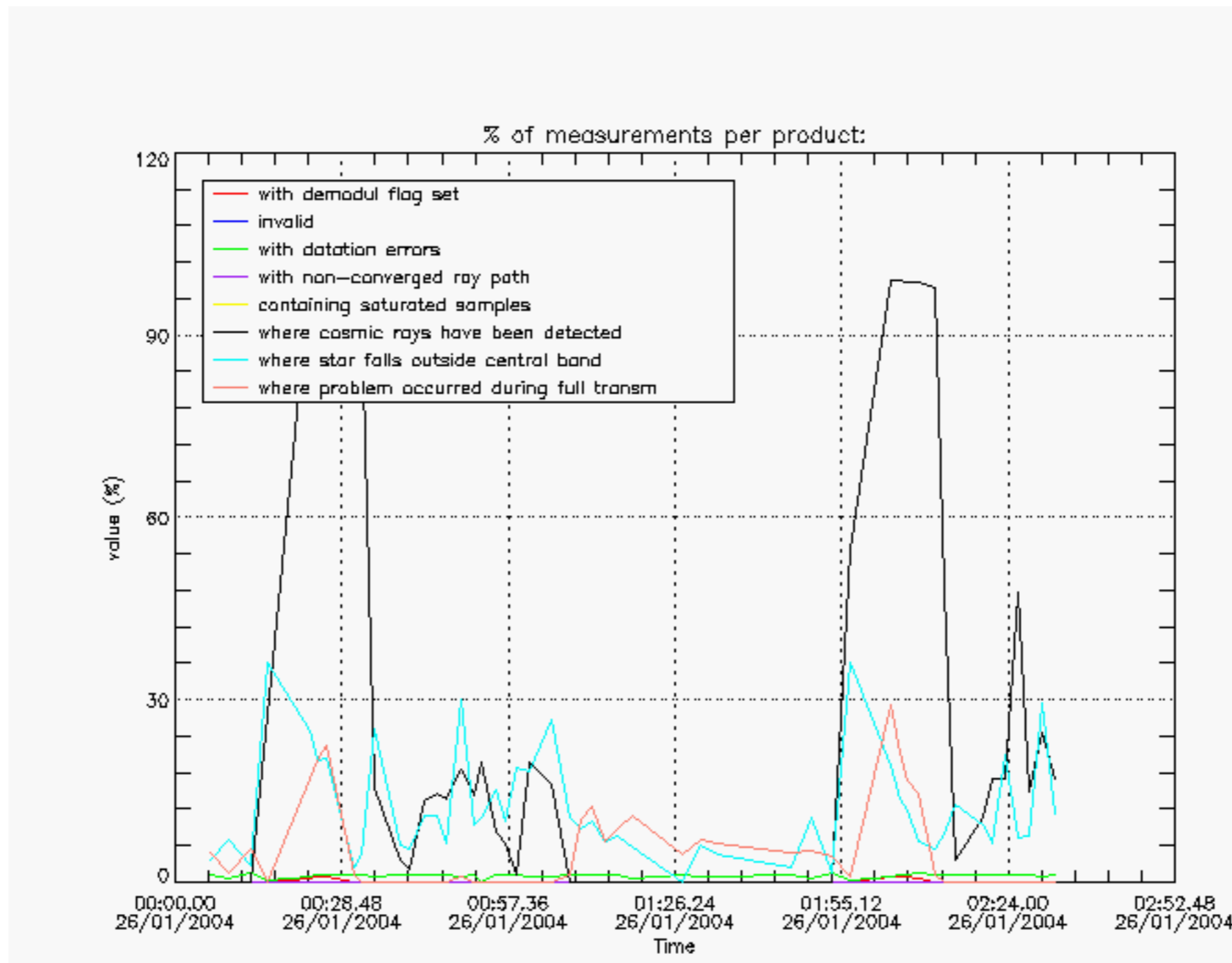
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.1	1447.4	1462.2	1448.9
St. deviation:	5.1955	8.9825	6.2770	9.5123
Maximum:	1532.0	1516.0	1506.0	1498.0
Minimum:	1438.0	1412.0	1438.0	1422.0
Number of data:	45500.	45500.	20200.	20200.



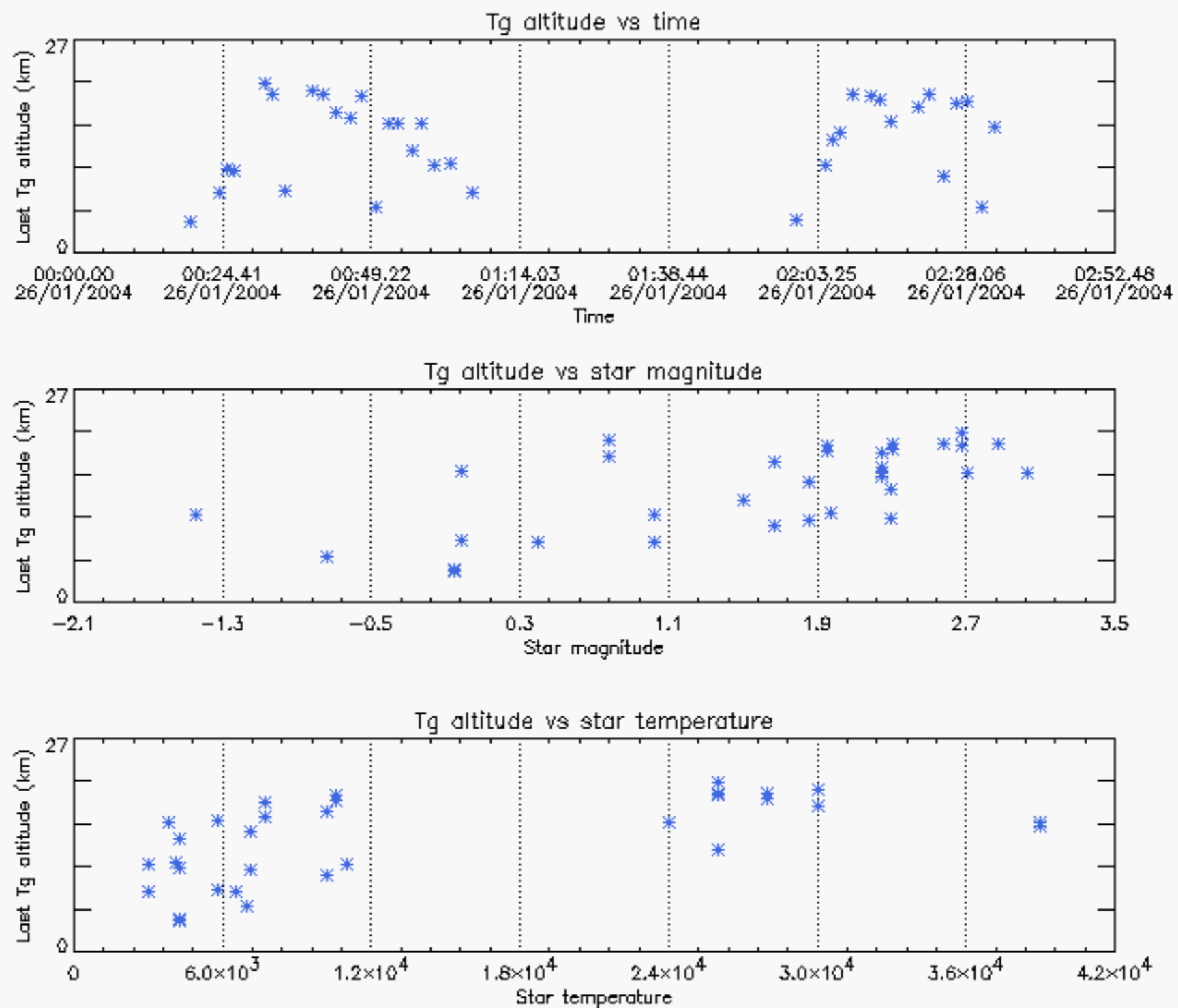




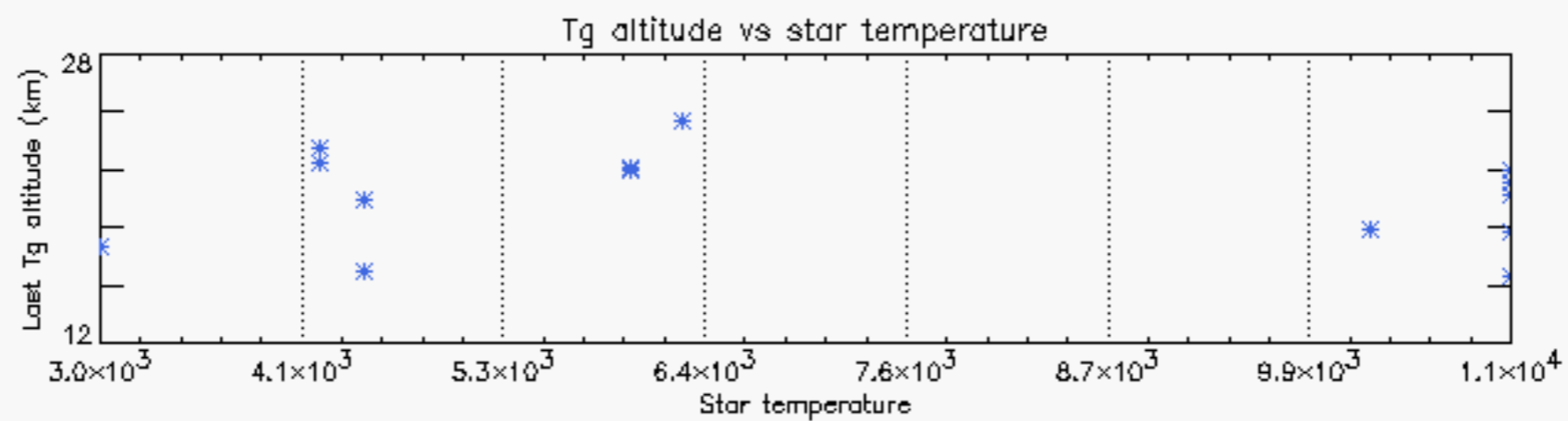
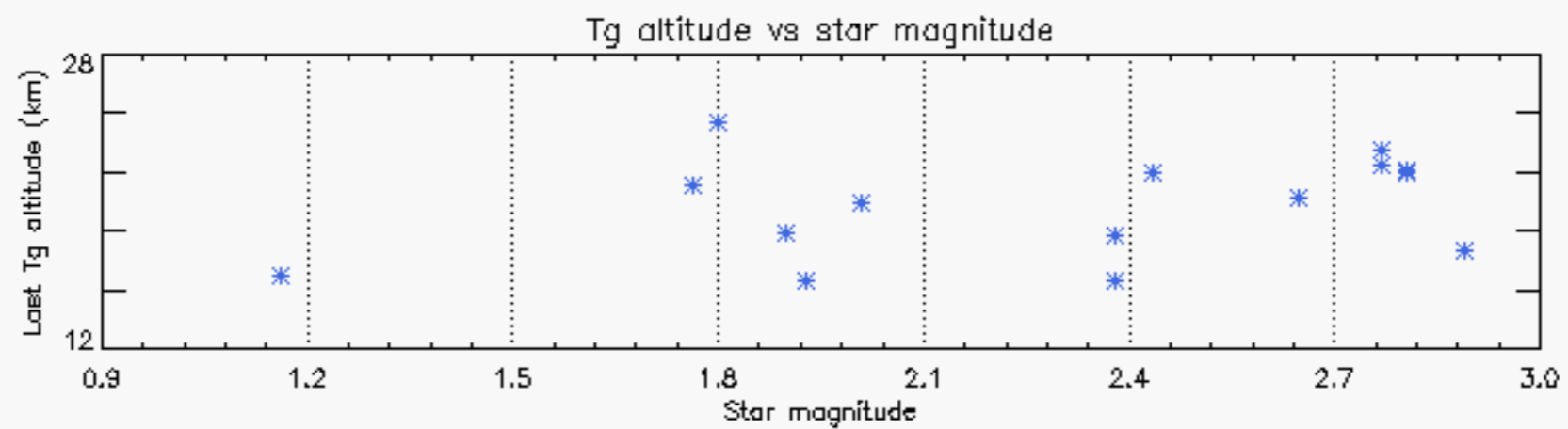
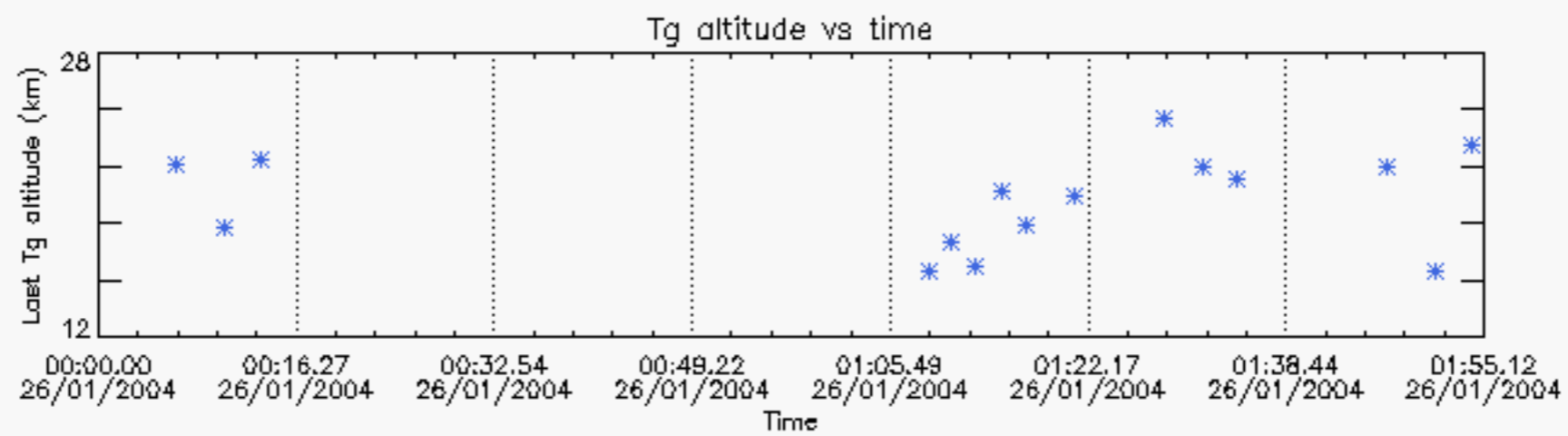




Tangent altitude at which the star is lost



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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27;	163.9;	06-JAN-2004	11:07:05;	Dark	;	46.0;	64;	Gam Cen	;	2.20;	10600;	occ;	92;	0;	9682
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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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25;	-1313.8;	08-JAN-2004	19:42:48;	Bright	;	36.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	73;	0;	9715
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14;	-3461.9;	08-JAN-2004	20:47:36;	Bright	;	48.5;	24;	66Alp Gem	;	1.58;	10200;	occ;	97;	0;	9716
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16;	-3257.1;	08-JAN-2004	20:51:01;	Bright	;	37.0;	175;	39Del Per	;	3.01;	19400;	occ;	74;	0;	9716
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18;	-2613.2;	08-JAN-2004	21:01:45;	Bright	;	36.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	72;	0;	9716
19;	-2512.4;	08-JAN-2004	21:03:25;	Bright	;	51.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	102;	0;	9716
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22;	-1972.4;	08-JAN-2004	21:12:25;	Bright	;	52.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	104;	0;	9716
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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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1;	-4543.1;	11-JAN-2004	10:31:43;	Dark	;	42.5;	179;	240mi2CMA	;	3.03;	24000;occ;	85;	62;	9753
2;	-4437.2;	11-JAN-2004	10:33:29;	Dark	;	51.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	103;	0;	9753
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
10;	-3361.3;	11-JAN-2004	10:51:25;	Bright;		39.0;	42;	34Bet Aur	;	1.90;	10200;occ;	78;	0;	9753
11;	-3243.7;	11-JAN-2004	10:53:23;	Bright;		37.0;	175;	39Del Per	;	3.01;	19400;occ;	74;	0;	9753
12;	-3105.7;	11-JAN-2004	10:55:41;	Bright;		36.5;	160;	23Gam Per	;	2.93;	4700;occ;	73;	0;	9753
13;	-2613.1;	11-JAN-2004	11:03:53;	Bright;		38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;	9753
14;	-2509.2;	11-JAN-2004	11:05:37;	Bright;		53.0;	82;	48Bet UMA	;	2.37;	10600;occ;	106;	0;	9753
15;	-2364.3;	11-JAN-2004	11:08:02;	Bright;		40.0;	60;	7Bet UMi	;	2.08;	3950;occ;	80;	0;	9753
16;	-2194.7;	11-JAN-2004	11:10:52;	Bright;		53.0;	32;	77Eps UMa	;	1.76;	11000;occ;	106;	0;	9753
17;	-1968.1;	11-JAN-2004	11:14:38;	Bright;		35.5;	130;	23Bet Dra	;	2.80;	5800;occ;	71;	0;	9753
18;	-1787.9;	11-JAN-2004	11:17:39;	Bright;		35.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	71;	0;	9753
19;	-1683.2;	11-JAN-2004	11:19:23;	Bright;		49.0;	180;	27Gam Boo	;	3.04;	8000;occ;	98;	0;	9753
20;	-1430.4;	11-JAN-2004	11:23:36;	Bright;		54.5;	83;		;	2.38;	11000;occ;	109;	0;	9753
21;	-1307.1;	11-JAN-2004	11:25:39;	Bright;		35.5;	59;	55Alp Oph	;	2.08;	8900;occ;	71;	0;	9753
22;	-1108.5;	11-JAN-2004	11:28:58;	Bright;		78.5;	111;	8Eta Boo	;	2.68;	6000;occ;	157;	0;	9753
23;	-878.6;	11-JAN-2004	11:32:48;	Bright;		52.0;	98;	13Zet Oph	;	2.57;	30000;occ;	104;	0;	9753
24;	-611.5;	11-JAN-2004	11:37:15;	Dark	;	46.0;	16;	21Alp Sco	;	1.02;	3000;occ;	92;	0;	9753
25;	-306.1;	11-JAN-2004	11:42:20;	Dark	;	38.5;	131;	Gam Lup	;	2.80;	26000;occ;	77;	0;	9753
26;	-209.2;	11-JAN-2004	11:43:57;	Dark	;	41.0;	109;	Bet Lup	;	2.68;	26000;occ;	82;	0;	9753
27;	-118.7;	11-JAN-2004	11:45:28;	Dark	;	40.5;	78;	Alp Lup	;	2.30;	28000;occ;	81;	0;	9753
28;	247.8;	11-JAN-2004	11:51:34;	Dark	;	42.5;	20;	Bet Cru	;	1.25;	30000;occ;	85;	0;	9754
29;	344.4;	11-JAN-2004	11:53:11;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	9754
30;	502.5;	11-JAN-2004	11:55:49;	Dark	;	40.5;	124;	The Car	;	2.76;	30000;occ;	81;	0;	9754
31;	595.6;	11-JAN-2004	11:57:22;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	9754
32;	701.7;	11-JAN-2004	11:59:08;	Dark	;	50.0;	71;	Iot Car	;	2.25;	7700;occ;	100;	0;	9754
33;	782.9;	11-JAN-2004	12:00:29;	Dark	;	51.0;	41;	Eps Car	;	1.86;	4100;occ;	102;	0;	9754
34;	1010.6;	11-JAN-2004	12:04:17;	Dark	;	46.0;	2;	Alp Car	;	-0.74;	7000;occ;	92;	0;	9754
35;	1111.4;	11-JAN-2004	12:05:58;	Dark	;	42.0;	70;	Zet Pup	;	2.25;	39000;occ;	84;	0;	9754
36;	1217.7;	11-JAN-2004	12:07:44;	Dark	;	46.0;	117;	Pi Pup	;	2.71;	3800;occ;	92;	0;	9754
37;	1375.0;	11-JAN-2004	12:10:21;	Dark	;	43.0;	23;	21Eps CMA	;	1.50;	26000;occ;	86;	0;	9754
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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2;	-4660.9;	11-JAN-2004	17:12:09;	Dark	;	45.5;	23;	21Eps CMA	;	1.50;	26000;occ;	91;	0;	9757
3;	-4573.6;	11-JAN-2004	17:13:37;	Dark	;	41.5;	179;	240mi2CMA	;	3.03;	24000;occ;	83;	0;	9757
4;	-4436.8;	11-JAN-2004	17:15:53;	Dark	;	54.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	108;	0;	9757
5;	-4244.8;	11-JAN-2004	17:19:05;	Dark	;	48.0;	7;	19Bet Ori	;	0.10;	14000;occ;	96;	0;	9757
6;	-4141.4;	11-JAN-2004	17:20:49;	Dark	;	43.5;	30;	46Eps Ori	;	1.69;	30000;occ;	87;	0;	9757
7;	-4007.3;	11-JAN-2004	17:23:03;	Dark	;	60.0;	8;	10Alp CMi	;	0.40;	6500;occ;	120;	0;	9757
8;	-3842.0;	11-JAN-2004	17:25:48;	Dark	;	44.0;	44;	24Gam Gem	;	1.93;	11000;occ;	88;	0;	9757
9;	-3740.1;	11-JAN-2004	17:27:30;	Bright;		43.5;	151;	13Mu Gem	;	2.89;	3000;occ;	87;	0;	9757
10;	-3639.6;	11-JAN-2004	17:29:11;	Bright;		39.0;	28;	12Bet Tau	;	1.65;	15200;occ;	78;	0;	9757
11;	-3549.8;	11-JAN-2004	17:30:40;	Bright;		38.5;	114;	3Iot Aur	;	2.69;	4600;occ;	77;	0;	9757
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
28;	-304.3;	11-JAN-2004	18:24:46;	Dark	;	39.5;	131;	Gam Lup	;	2.80;	26000;occ;	79;	0;	9757

29; -206.9; 11-JAN-2004 18:26:23; Dark ; 40.5; 109; Bet Lup ; 2.68; 26000;occ; 81; 0; 9757
 30; -116.2; 11-JAN-2004 18:27:54; Dark ; 41.5; 78; Alp Lup ; 2.30; 28000;occ; 83; 0; 9757
 31; 51.1; 11-JAN-2004 18:30:41; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0; 9758
 32; 250.5; 11-JAN-2004 18:34:01; Dark ; 43.0; 20; Bet Cru ; 1.25; 30000;occ; 86; 0; 9758
 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
 38; 1011.4; 11-JAN-2004 18:46:42; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0; 9758

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 3; -4005.7; 11-JAN-2004 09:00:05; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0; 9752
 4; -3841.0; 11-JAN-2004 09:02:50; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0; 9752
 5; -3739.3; 11-JAN-2004 09:04:31; Bright; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0; 9752
 6; -3639.1; 11-JAN-2004 09:06:11; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0; 9752
 7; -3550.4; 11-JAN-2004 09:07:40; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0; 9752
 8; -3361.0; 11-JAN-2004 09:10:50; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0; 9752
 9; -3243.9; 11-JAN-2004 09:12:47; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0; 9752
 10; -3106.0; 11-JAN-2004 09:15:05; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76; 0; 9752
 11; -2612.7; 11-JAN-2004 09:23:18; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0; 9752
 12; -2507.4; 11-JAN-2004 09:25:03; Bright; 52.5; 82; 48Bet UMa ; 2.37; 10600;occ; 105; 0; 9752
 13; -2363.9; 11-JAN-2004 09:27:27; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0; 9752
 14; -2194.2; 11-JAN-2004 09:30:16; Bright; 52.5; 32; 77Eps UMa ; 1.76; 11000;occ; 105; 0; 9752
 15; -1968.3; 11-JAN-2004 09:34:02; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0; 9752
 16; -1787.8; 11-JAN-2004 09:37:03; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0; 9752
 17; -1683.5; 11-JAN-2004 09:38:47; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0; 9752
 18; -1430.6; 11-JAN-2004 09:43:00; Bright; 51.5; 83; ; 2.38; 11000;occ; 103; 0; 9752
 19; -1306.9; 11-JAN-2004 09:45:04; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0; 9752
 20; -1110.1; 11-JAN-2004 09:48:20; Bright; 80.5; 111; 8Eta Boo ; 2.68; 6000;occ; 161; 0; 9752
 21; -879.0; 11-JAN-2004 09:52:12; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0; 9752
 22; -611.7; 11-JAN-2004 09:56:39; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0; 9752
 23; -306.4; 11-JAN-2004 10:01:44; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0; 9752
 24; -209.7; 11-JAN-2004 10:03:21; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0; 9752
 25; -119.2; 11-JAN-2004 10:04:51; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0; 9752
 26; 247.7; 11-JAN-2004 10:10:58; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0; 9753
 27; 343.4; 11-JAN-2004 10:12:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9753
 28; 502.3; 11-JAN-2004 10:15:13; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0; 9753
 29; 595.6; 11-JAN-2004 10:16:46; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0; 9753
 30; 701.5; 11-JAN-2004 10:18:32; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0; 9753
 31; 783.0; 11-JAN-2004 10:19:54; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0; 9753
 32; 1010.6; 11-JAN-2004 10:23:41; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0; 9753
 33; 1111.1; 11-JAN-2004 10:25:22; Dark ; 48.5; 70; Zet Pup ; 2.25; 39000;occ; 97; 0; 9753
 34; 1217.7; 11-JAN-2004 10:27:08; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0; 9753
 35; 1375.1; 11-JAN-2004 10:29:46; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0; 9753
 36; 1461.7; 11-JAN-2004 10:31:12; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0; 9753

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 3; -4245.3; 11-JAN-2004 12:17:17; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0; 9754
 4; -4141.4; 11-JAN-2004 12:19:01; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0; 9754
 5; -4006.9; 11-JAN-2004 12:21:15; Dark ; 60.0; 8; 10Alp CMi ; 0.40; 6500;occ; 120; 0; 9754
 6; -3841.2; 11-JAN-2004 12:24:01; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0; 9754
 7; -3739.8; 11-JAN-2004 12:25:42; Bright; 43.5; 151; 13Mu Gem ; 2.89; 3000;occ; 87; 0; 9754
 8; -3639.5; 11-JAN-2004 12:27:23; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0; 9754
 9; -3550.7; 11-JAN-2004 12:28:52; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0; 9754
 10; -3361.6; 11-JAN-2004 12:32:01; Bright; 37.5; 42; 34Bet Aur ; 1.90; 10200;occ; 75; 0; 9754
 11; -3243.6; 11-JAN-2004 12:33:59; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0; 9754
 12; -3105.2; 11-JAN-2004 12:36:17; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0; 9754
 13; -2613.1; 11-JAN-2004 12:44:29; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0; 9754
 14; -2364.8; 11-JAN-2004 12:48:37; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0; 9754
 15; -2195.7; 11-JAN-2004 12:51:27; Bright; 51.0; 32; 77Eps UMa ; 1.76; 11000;occ; 102; 0; 9754
 16; -1968.6; 11-JAN-2004 12:55:14; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0; 9754
 17; -1787.7; 11-JAN-2004 12:58:15; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0; 9754
 18; -1684.3; 11-JAN-2004 12:59:58; Bright; 50.0; 180; 27Gam Boo ; 3.04; 8000;occ; 100; 0; 9754
 19; -1430.8; 11-JAN-2004 13:04:12; Bright; 54.5; 83; ; 2.38; 11000;occ; 109; 0; 9754
 20; -1306.6; 11-JAN-2004 13:06:16; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0; 9754


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21; -1107.7; 11-JAN-2004 13:09:35; Bright; 76.0; 111; 8Eta Boo ; 2.68; 6000;occ; 152; 0; 9754
22; -878.4; 11-JAN-2004 13:13:24; Bright; 43.0; 98; 13Zet Oph ; 2.57; 30000;occ; 86; 0; 9754
23; -611.2; 11-JAN-2004 13:17:51; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0; 9754
24; -305.7; 11-JAN-2004 13:22:57; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0; 9754
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26; 3.3; 31-JAN-2004 12:59:19; Dark ; 46.5; 109; Bet Lup ; 2.68; 26000;occ; 93; 0;10041
27; 185.7; 31-JAN-2004 13:02:21; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;10041
28; 271.7; 31-JAN-2004 13:03:47; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10041
29; 461.2; 31-JAN-2004 13:06:57; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;10041
30; 579.3; 31-JAN-2004 13:08:55; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;10041
31; 674.6; 31-JAN-2004 13:10:30; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;10041
32; 870.1; 31-JAN-2004 13:13:46; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 0;10041
33; 1072.4; 31-JAN-2004 13:17:08; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;10041
34; 1200.1; 31-JAN-2004 13:19:16; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;10041
35; 1282.9; 31-JAN-2004 13:20:38; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;10041
36; 1429.2; 31-JAN-2004 13:23:05; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;10041
37; 1509.9; 31-JAN-2004 13:24:26; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;10041

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