

GOMOS Daily Report 28-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	29JAN2004 06:56:40
Data source version	<Any version>
Start time of products	28-JAN-2004 (28JAN2004 00:00:00)
Stop time of products	29-JAN-2004 (29JAN2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	48
Nb of prods with errors	1

2. Summary of products arrived in PCF

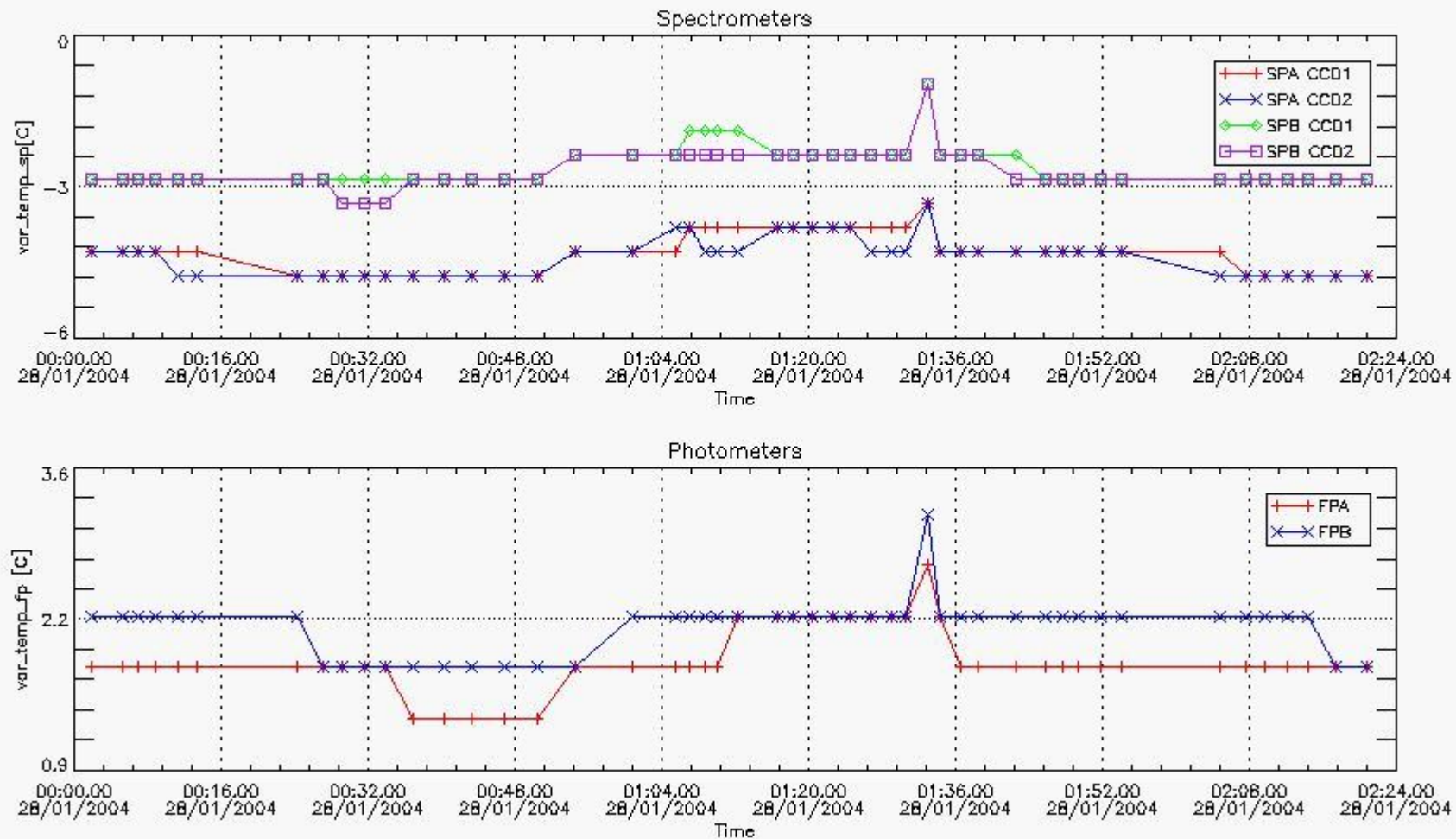
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[2.2 Summary of processed GOM_TRA_1P products.](#)

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
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GOM_TRA_1PNPDE20040128_000155_000000522023_00417_09990_0004.N1	28-JAN-2004 00:01:55	Dark	52.000	8	10Alp CMi	0.40000	6500.0	104	9990	No
GOM_TRA_1PNPDE20040128_000513_000000422023_00417_09990_0005.N1	28-JAN-2004 00:05:13	Bright	42.000	44	24Gam Gem	1.9280	11000.	84	9990	No
GOM_TRA_1PNPDE20040128_000701_000000402023_00417_09990_0006.N1	28-JAN-2004 00:07:01	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	9990	No
GOM_TRA_1PNPDE20040128_000848_000000452023_00417_09990_0007.N1	28-JAN-2004 00:08:48	Bright	44.500	17	78Bet Gem	1.1610	4500.0	89	9990	No
GOM_TRA_1PNPDE20040128_001116_000000382023_00417_09990_0008.N1	28-JAN-2004 00:11:16	Bright	37.500	107	37The Aur	2.6490	11000.	75	9990	No
GOM_TRA_1PNPDE20040128_001323_000000382023_00417_09990_0009.N1	28-JAN-2004 00:13:23	Bright	38.000	42	34Bet Aur	1.9000	10200.	76	9990	No
GOM_TRA_1PNPDE20040128_002412_000000502023_00417_09990_0010.N1	28-JAN-2004 00:24:12	Bright	49.500	36	50Alp UMa	1.8000	6300.0	99	9990	No
GOM_TRA_1PNPDE20040128_002705_000000562023_00417_09990_0011.N1	28-JAN-2004 00:27:05	Bright	56.000	87	64Gam UMa	2.4330	11000.	112	9990	No
GOM_TRA_1PNPDE20040128_002911_000000402023_00417_09990_0012.N1	28-JAN-2004 00:29:11	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	9990	No
GOM_TRA_1PNPDE20040128_003134_000000372023_00417_09990_0013.N1	28-JAN-2004 00:31:34	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	9990	No
GOM_TRA_1PNPDE20040128_003348_000000402023_00417_09990_0014.N1	28-JAN-2004 00:33:48	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	9990	No
GOM_TRA_1PNPDE20040128_003649_000000382023_00417_09990_0015.N1	28-JAN-2004 00:36:49	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	9990	No
GOM_TRA_1PNPDE20040128_004017_000000382023_00417_09990_0016.N1	28-JAN-2004 00:40:17	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	9990	No
GOM_TRA_1PNPDE20040128_004320_000000592023_00417_09990_0017.N1	28-JAN-2004 00:43:20	Bright	59.000	133	40Zet Her	2.8070	6000.0	118	9990	No
GOM_TRA_1PNPDE20040128_004657_000000812023_00417_09990_0018.N1	28-JAN-2004 00:46:57	Bright	80.500	83		2.3780	11000.	161	9990	No
GOM_TRA_1PNPDE20040128_005029_000000372023_00417_09990_0019.N1	28-JAN-2004 00:50:29	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	9990	No
GOM_TRA_1PNPDE20040128_005437_000002102023_00417_09990_0020.N1	28-JAN-2004 00:54:37	Dark	209.50	3	16Alp Boo	-0.050000	4250.0	419	9990	No
GOM_TRA_1PNPDE20040128_010053_000000492023_00417_09990_0021.N1	28-JAN-2004 01:00:53	Dark	48.500	16	21Alp Sco	1.0200	3000.0	97	9990	No
GOM_TRA_1PNPDE20040128_010525_000000392023_00417_09990_0022.N1	28-JAN-2004 01:05:25	Dark	39.000	147	Alp Ara	2.8770	26000.	78	9990	No
GOM_TRA_1PNPDE20040128_010659_000000432023_00417_09990_0023.N1	28-JAN-2004 01:06:59	Dark	42.500	141	Bet Ara	2.8400	4600.0	85	9990	No
GOM_TRA_1PNPDE20040128_010839_000000452023_00417_09990_0024.N1	28-JAN-2004 01:08:39	Dark	45.000	109	Bet Lup	2.6770	26000.	90	9990	No
GOM_TRA_1PNPDE20040128_011006_000000462023_00418_09991_0025.N1	28-JAN-2004 01:10:06	Dark	45.500	78	Alp Lup	2.3040	28000.	91	9991	No
GOM_TRA_1PNPDE20040128_011211_000000402023_00418_09991_0026.N1	28-JAN-2004 01:12:11	Dark	40.000	145	Gam TrA	2.8720	10600.	80	9991	No
GOM_TRA_1PNPDE20040128_011633_000000432023_00418_09991_0027.N1	28-JAN-2004 01:16:33	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	9991	No
GOM_TRA_1PNPDE20040128_011817_000000492023_00418_09991_0028.N1	28-JAN-2004 01:18:17	Dark	48.500	99	Del Cen	2.5750	26000.	97	9991	No
GOM_TRA_1PNPDE20040128_012021_000000452023_00418_09991_0029.N1	28-JAN-2004 01:20:21	Dark	44.500	29	Bet Car	1.6720	10200.	89	9991	No
GOM_TRA_1PNPDE20040128_012240_000000402023_00418_09991_0030.N1	28-JAN-2004 01:22:40	Dark	39.500	71	lot Car	2.2460	7700.0	79	9991	No
GOM_TRA_1PNPDE20040128_012426_000000412023_00418_09991_0031.N1	28-JAN-2004 01:24:26	Dark	40.500	46	Del Vel	1.9540	10600.	81	9991	No
GOM_TRA_1PNPDE20040128_012646_000000452023_00418_09991_0032.N1	28-JAN-2004 01:26:46	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	9991	No
GOM_TRA_1PNPDE20040128_012904_000000442023_00418_09991_0033.N1	28-JAN-2004 01:29:04	Dark	43.500	70	Zet Pup	2.2460	39000.	87	9991	No
GOM_TRA_1PNPDE20040128_013034_000000432023_00418_09991_0034.N1	28-JAN-2004 01:30:34	Dark	43.000	117	Pi Pup	2.7060	3800.0	86	9991	No
GOM_TRA_1PNPDE20040128_013258_000000452023_00418_09991_0000.N1	28-JAN-2004 01:32:58	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	9991	Yes
GOM_TRA_1PNPDE20040128_013423_000000412023_00418_09991_0001.N1	28-JAN-2004 01:34:23	Dark	40.500	179	24Omi2CMa	3.0320	24000.	81	9991	No
GOM_TRA_1PNPDE20040128_013630_000000512023_00418_09991_0002.N1	28-JAN-2004 01:36:30	Dark	50.500	1	9Alp CMa	-1.4400	11000.	101	9991	No
GOM_TRA_1PNPDE20040128_013830_000000652023_00418_09991_0003.N1	28-JAN-2004 01:38:30	Dark	65.000	48	30Alp Hya	1.9770	4100.0	130	9991	No
GOM_TRA_1PNPDE20040128_014231_000000542023_00418_09991_0004.N1	28-JAN-2004 01:42:31	Dark	54.000	8	10Alp CMi	0.40000	6500.0	108	9991	No
GOM_TRA_1PNPDE20040128_014548_000000402023_00418_09991_0005.N1	28-JAN-2004 01:45:48	Bright	39.500	44	24Gam Gem	1.9280	11000.	79	9991	No
GOM_TRA_1PNPDE20040128_014736_000000432023_00418_09991_0006.N1	28-JAN-2004 01:47:36	Bright	42.500	151	13Mu Gem	2.8900	3000.0	85	9991	No
GOM_TRA_1PNPDE20040128_014923_000000442023_00418_09991_0007.N1	28-JAN-2004 01:49:23	Bright	44.000	17	78Bet Gem	1.1610	4500.0	88	9991	No
GOM_TRA_1PNPDE20040128_015152_000000402023_00418_09991_0008.N1	28-JAN-2004 01:51:52	Bright	39.500	107	37The Aur	2.6490	11000.	79	9991	No
GOM_TRA_1PNPDE20040128_015358_000000402023_00418_09991_0009.N1	28-JAN-2004 01:53:58	Bright	40.000	42	34Bet Aur	1.9000	10200.	80	9991	No
GOM_TRA_1PNPDE20040128_020447_000000442023_00418_09991_0010.N1	28-JAN-2004 02:04:47	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	9991	No
GOM_TRA_1PNPDE20040128_020740_000000562023_00418_09991_0011.N1	28-JAN-2004 02:07:40	Bright	56.000	87	64Gam UMa	2.4330	11000.	112	9991	No
GOM_TRA_1PNPDE20040128_020946_000000412023_00418_09991_0012.N1	28-JAN-2004 02:09:46	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	9991	No
GOM_TRA_1PNPDE20040128_021208_000000402023_00418_09991_0013.N1	28-JAN-2004 02:12:08	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	9991	No
GOM_TRA_1PNPDE20040128_021423_000000422023_00418_09991_0014.N1	28-JAN-2004 02:14:23	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	9991	No
GOM_TRA_1PNPDE20040128_021724_000000402023_00418_09991_0015.N1	28-JAN-2004 02:17:24	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	9991	No
GOM_TRA_1PNPDE20040128_022053_000000502023_00418_09991_0016.N1	28-JAN-2004 02:20:53	Bright	49.500	5	3Alp Lyr	0.033000	11000.	99	9991	No

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



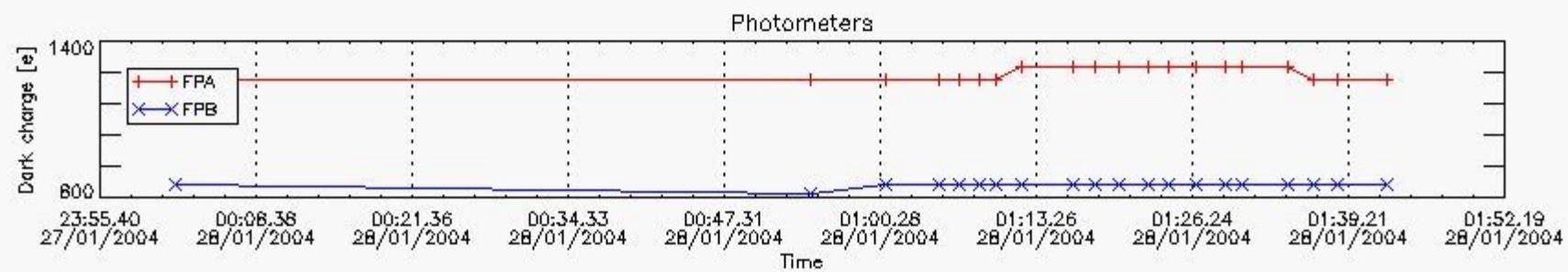
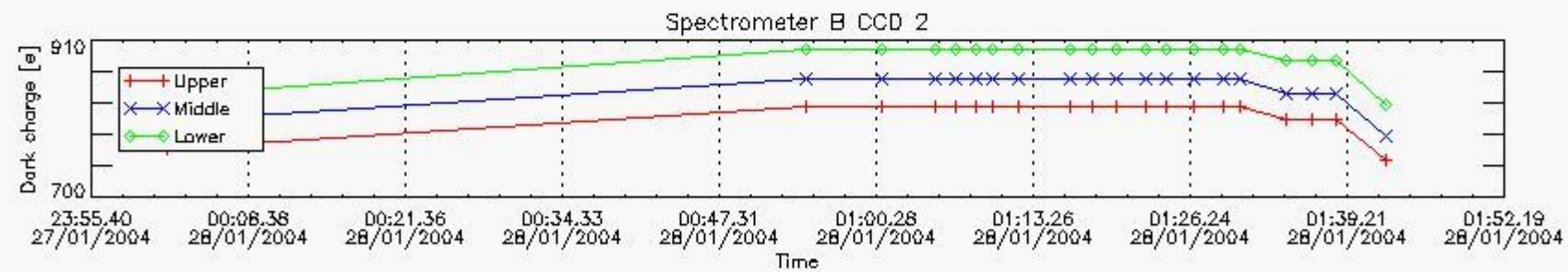
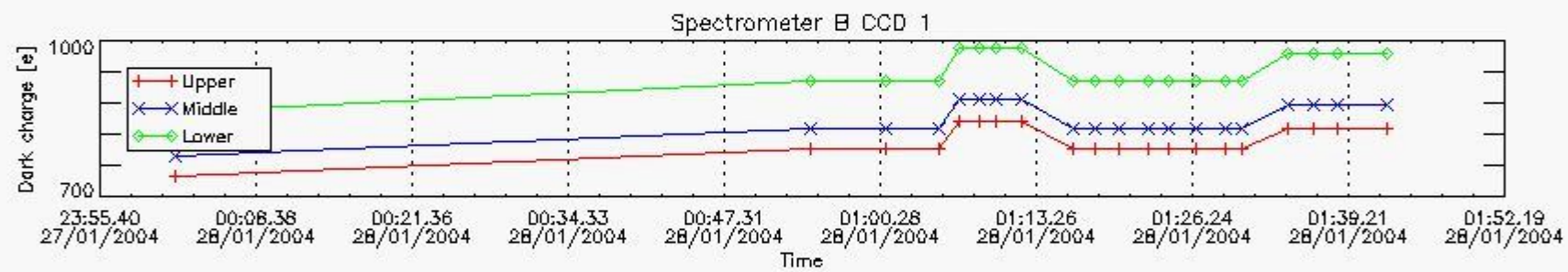
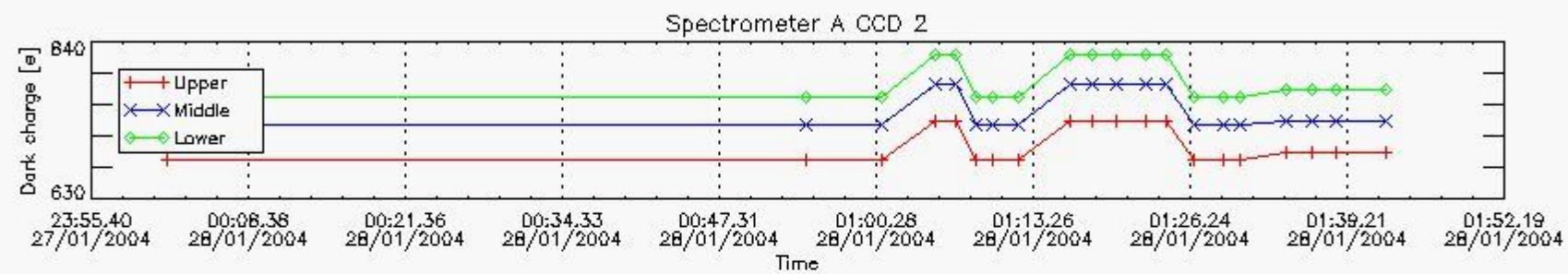
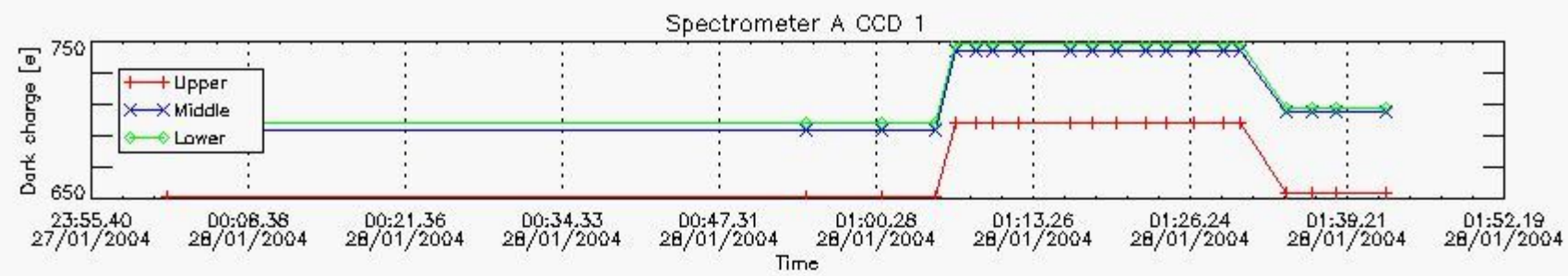
4. Overview of dark signal processing per product

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

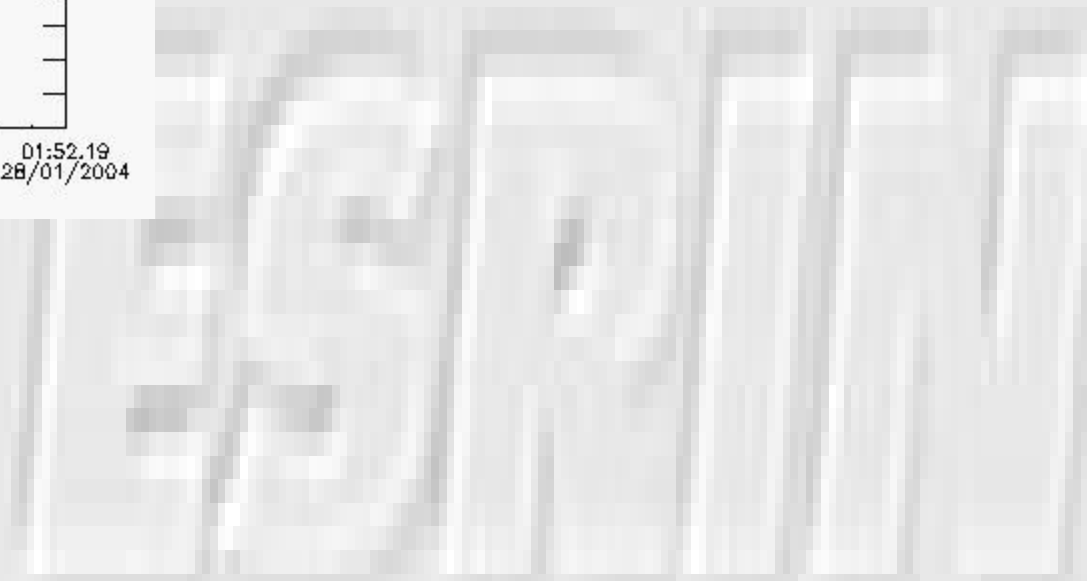
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



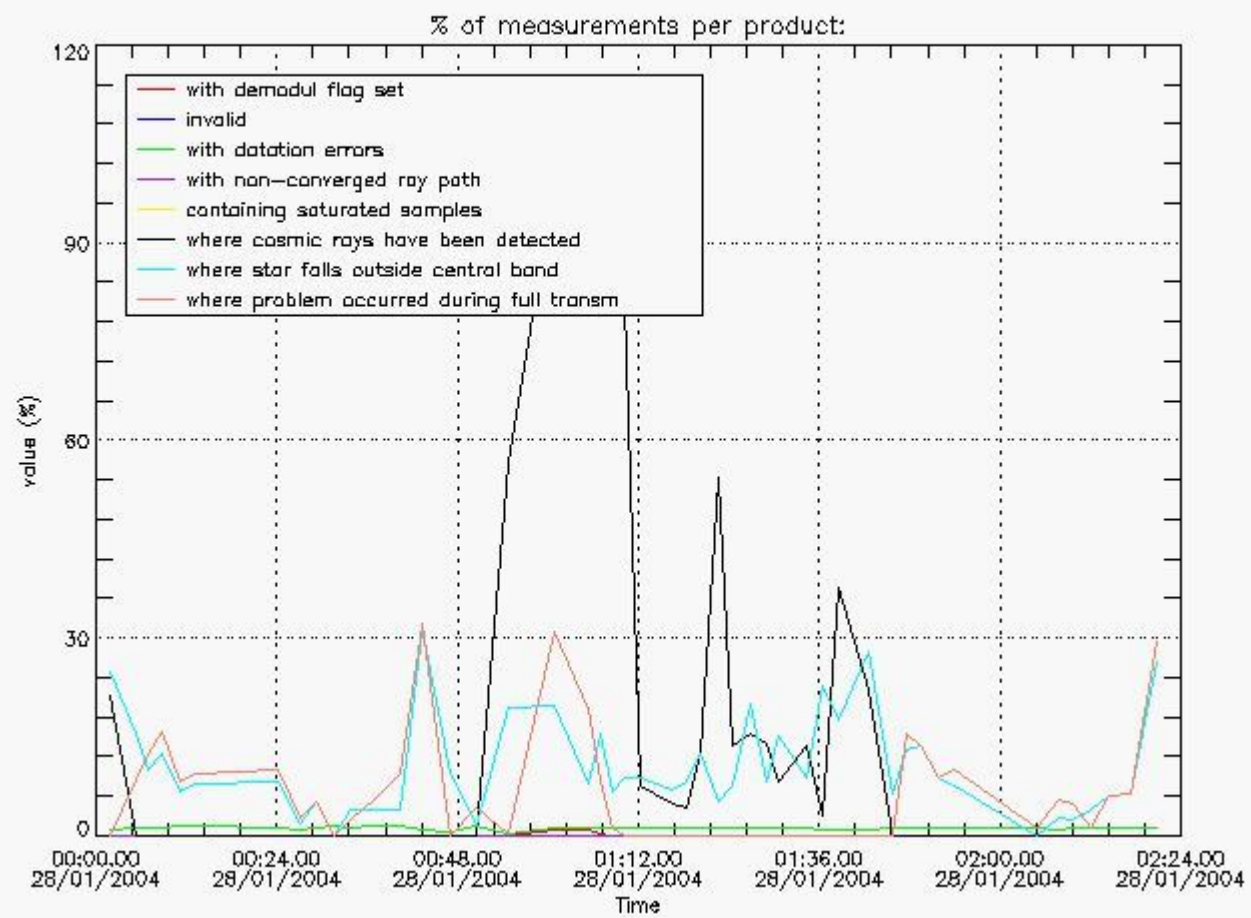
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.8936 %
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



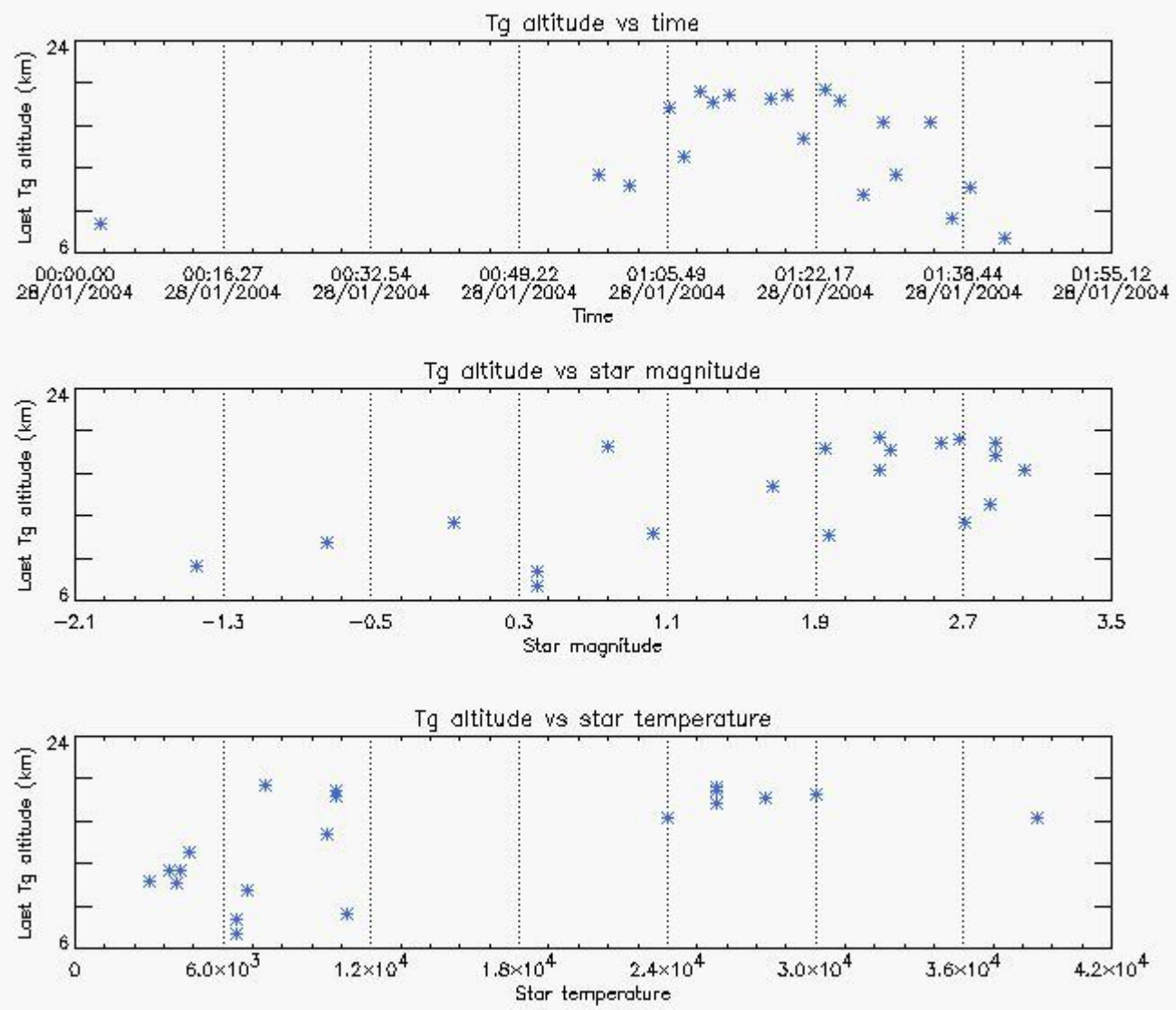
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	15.078	18.788
St. deviation:	4.2212	4.9549
Maximum:	19.839	27.257
Minimum:	7.2352	5.7439
Number of data:	20.000	27.000

6.2 Plot for DARK limb products

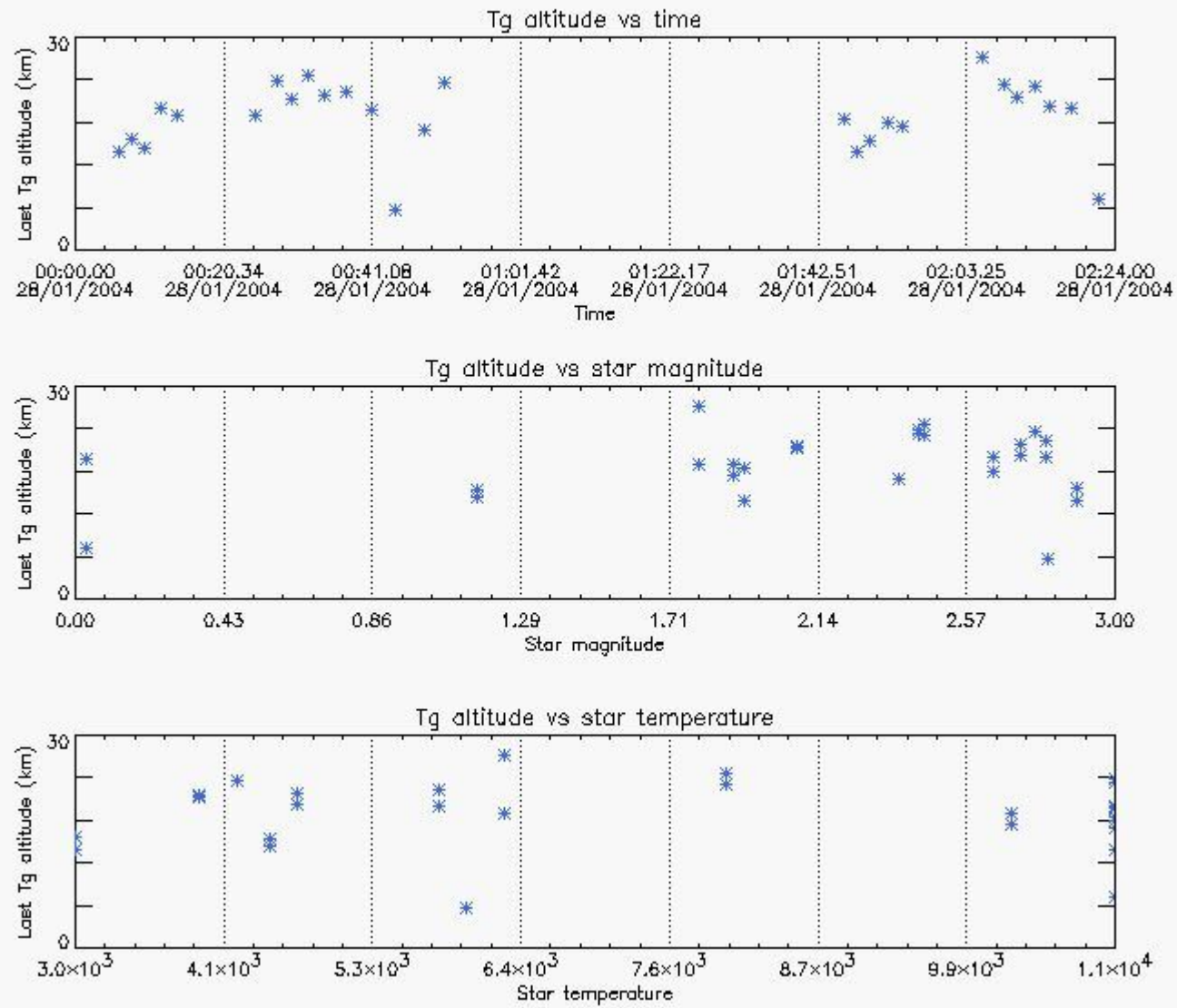
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



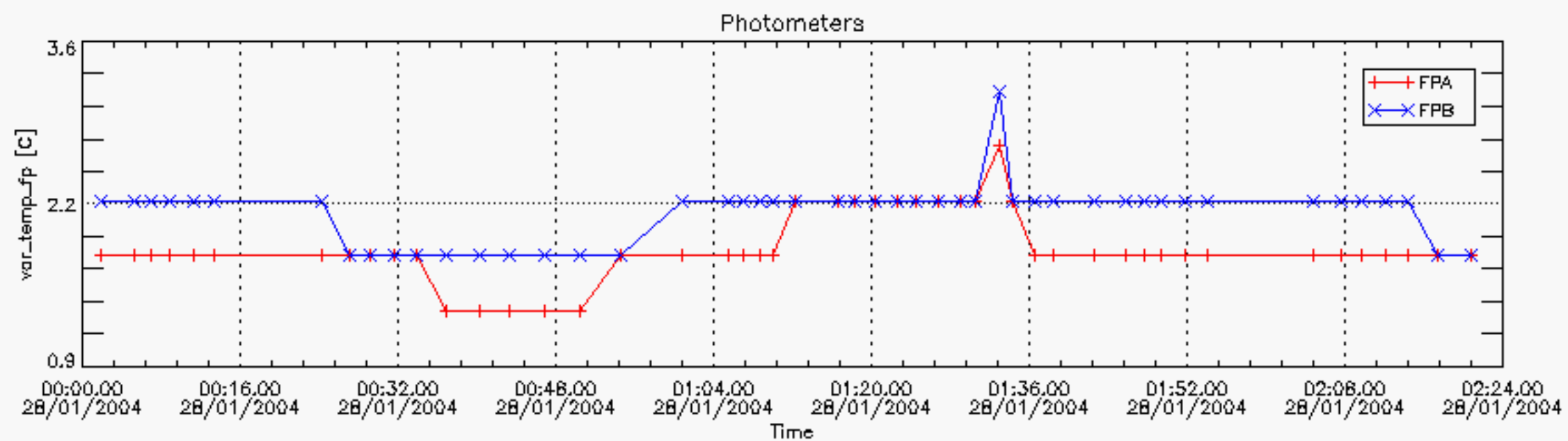
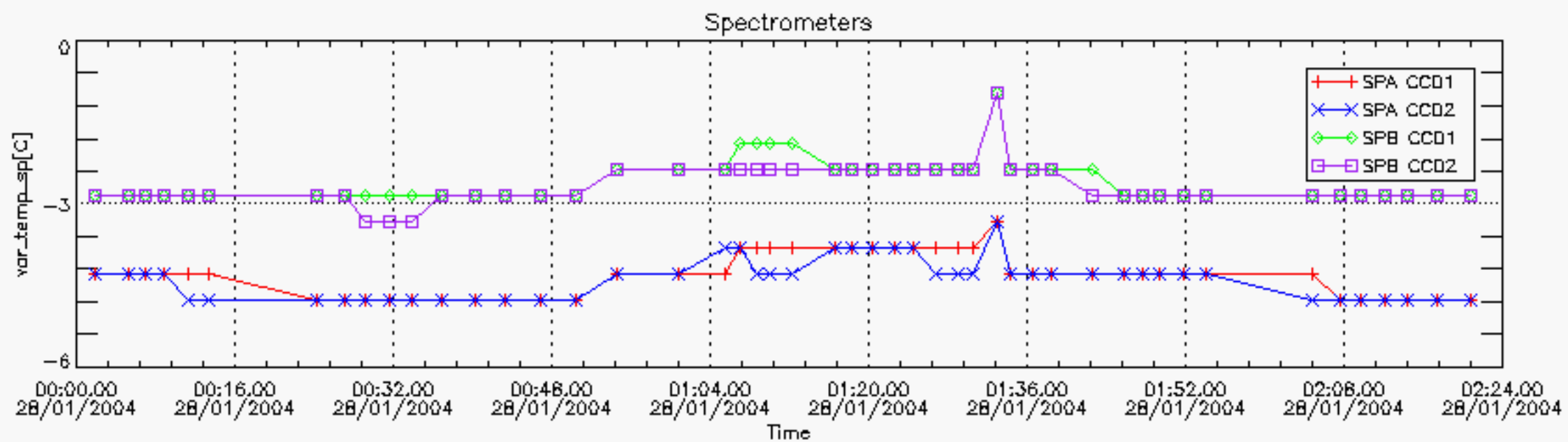
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

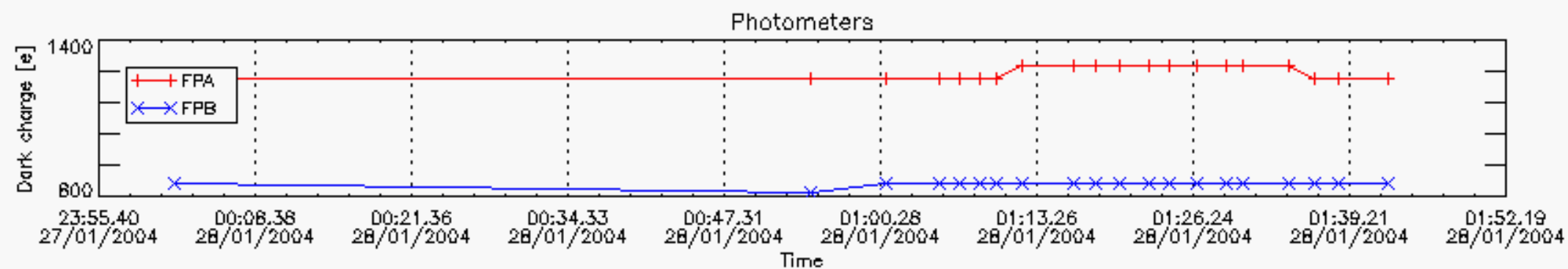
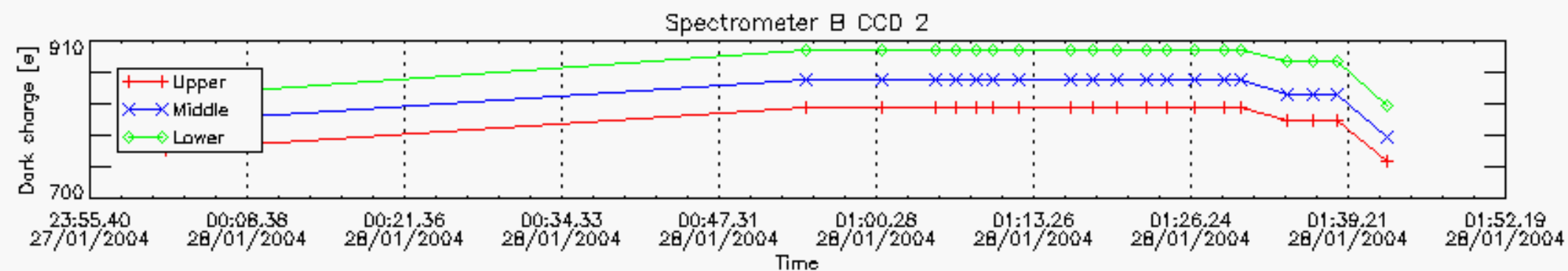
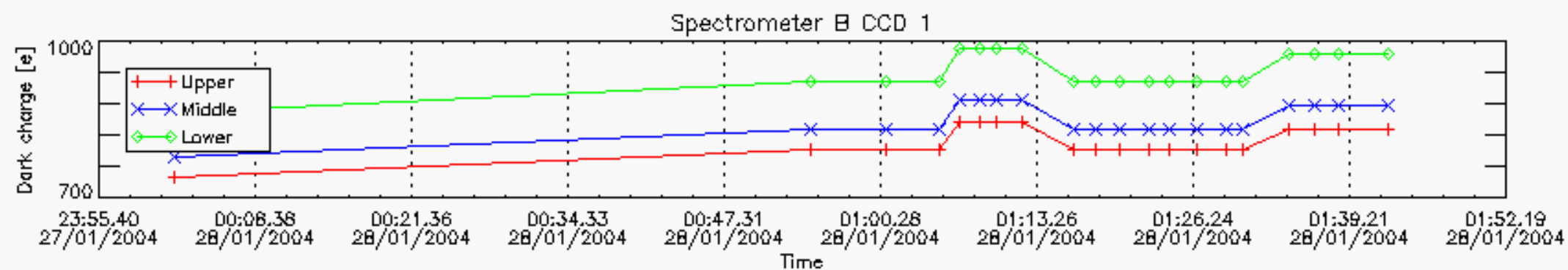
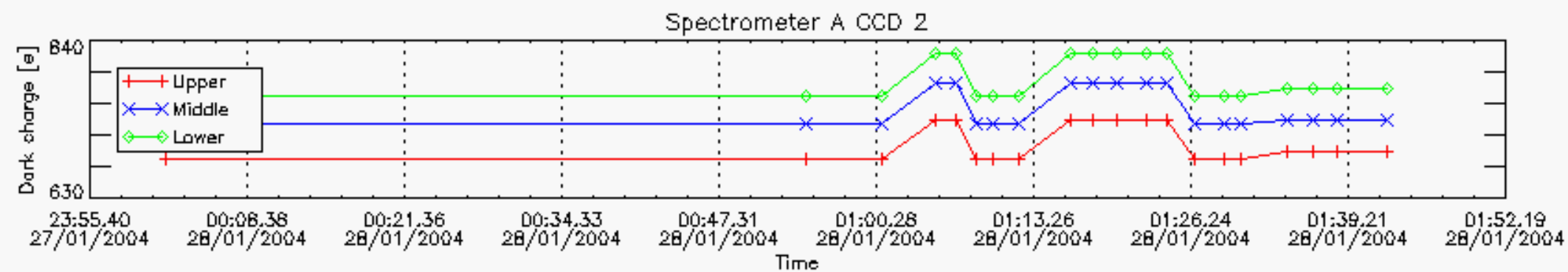
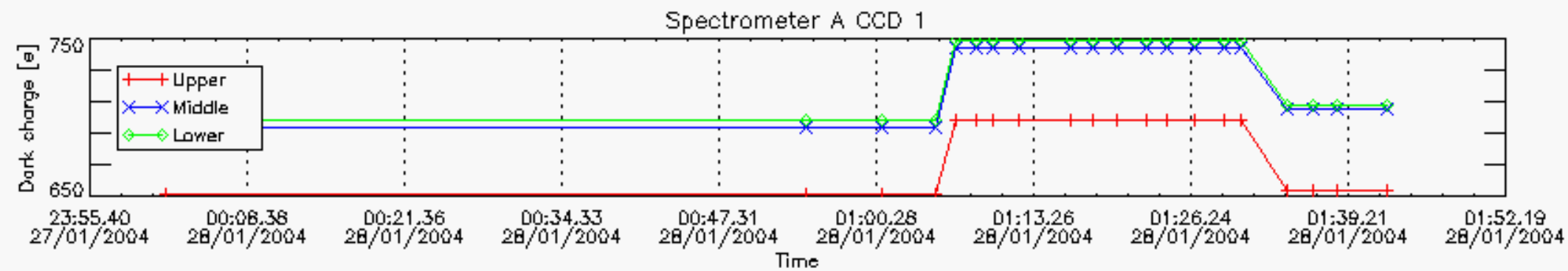
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

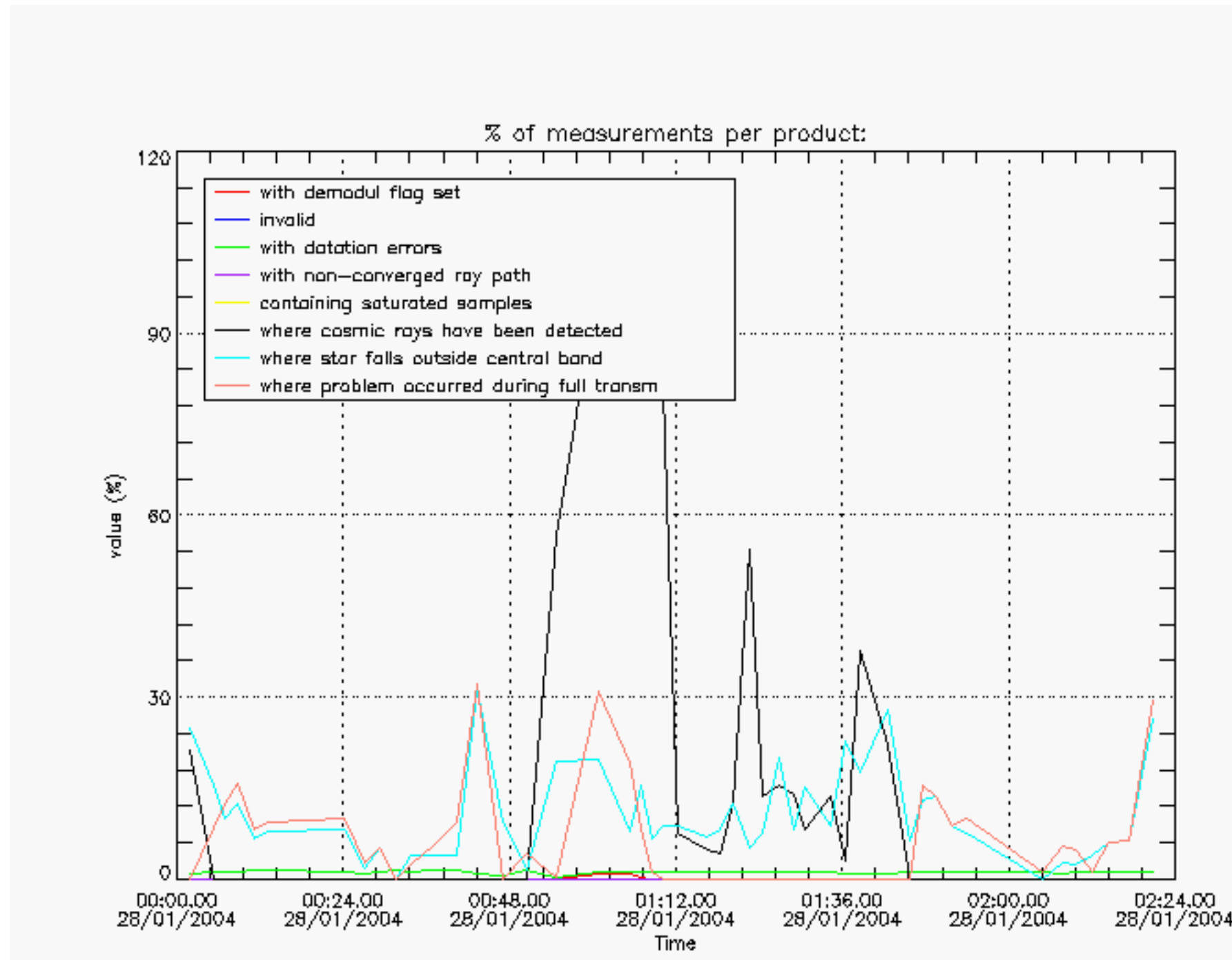
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.0	1447.0	1461.0	1447.2
St. deviation:	5.2754	6.6033	5.9605	7.2330
Maximum:	1581.0	1496.0	1498.0	1493.0
Minimum:	1459.0	1428.0	1454.0	1429.0
Number of data:	26050.	26050.	30650.	30650.



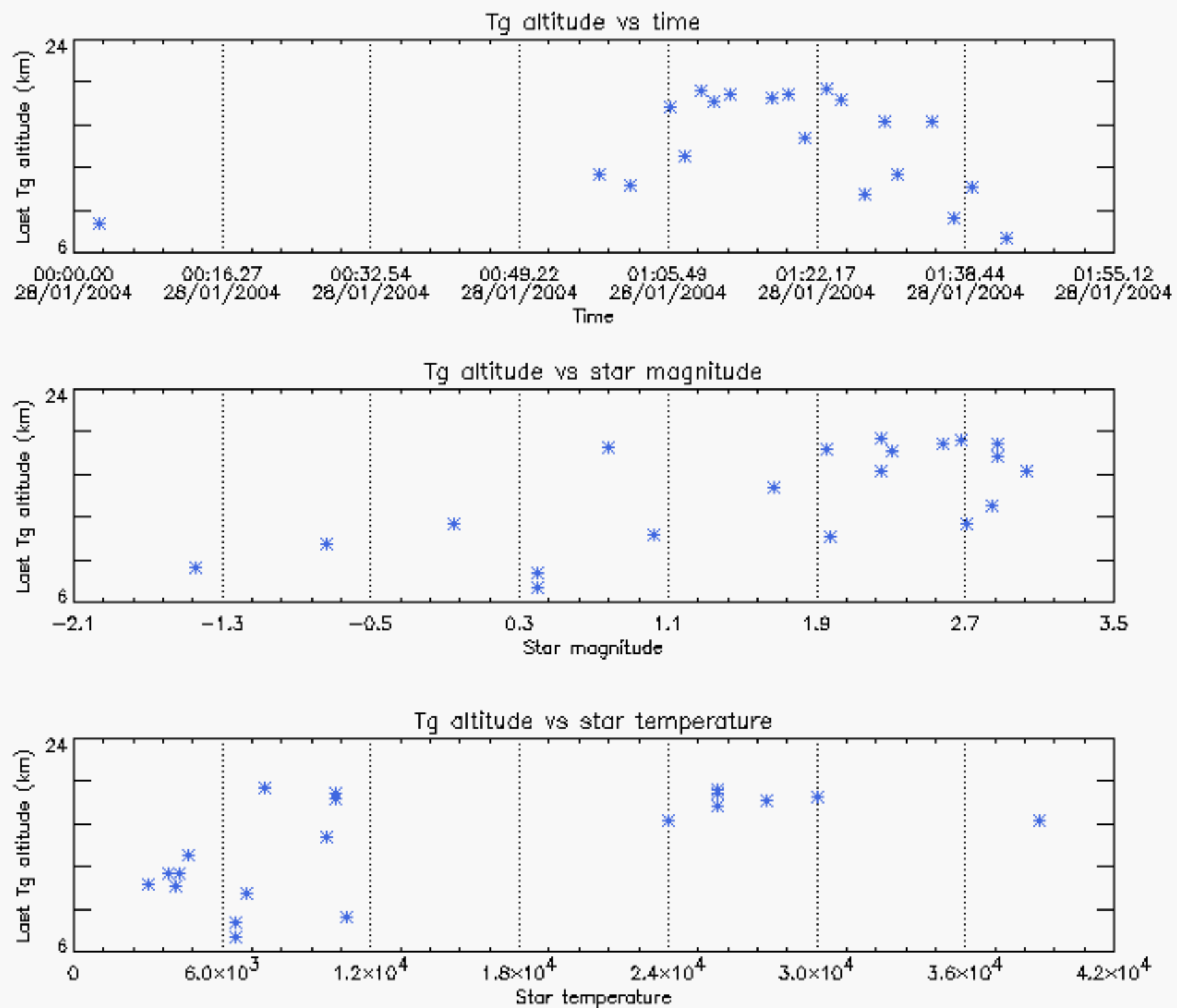




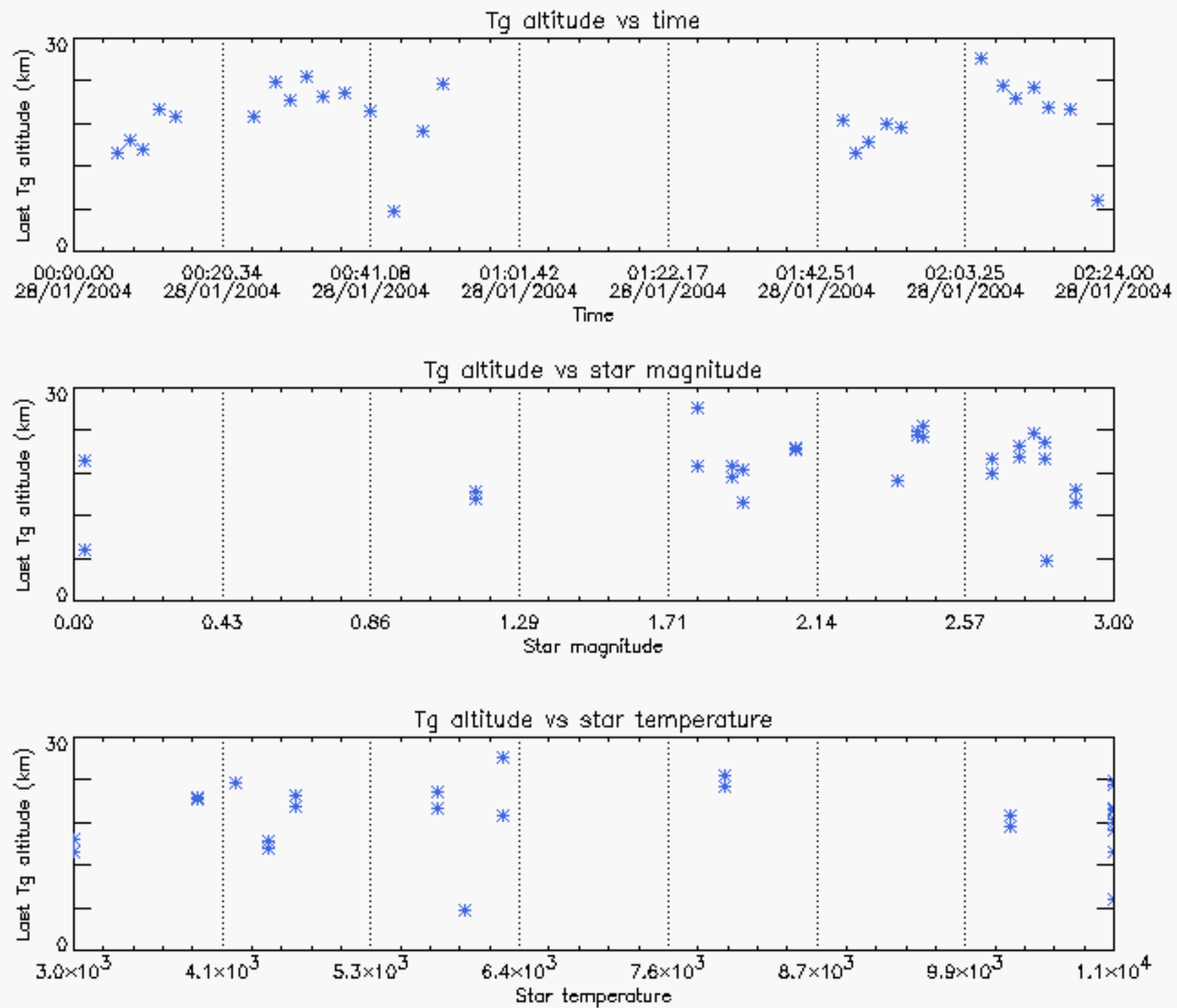




Tangent altitude at which the star is lost



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
28;	398.9;	01-JAN-2004	07:06:42;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	9608
29;	545.2;	01-JAN-2004	07:09:08;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	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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36;	1431.6;	01-JAN-2004	07:23:55;	Dark	;	46.5;	179;	240mi2CMA	;	3.03;	24000;occ;	93;	0;	9608
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4;	-3806.5;	01-JAN-2004	07:37:12;	Dark	;	50.0;	44;	24Gam Gem	;	1.93;	11000;occ;	100;	0;	9608
5;	-3708.4;	01-JAN-2004	07:38:51;	Bright;	;	47.0;	151;	13Mu Gem	;	2.89;	3000;occ;	94;	0;	9608
6;	-3564.7;	01-JAN-2004	07:41:14;	Bright;	;	39.0;	114;	3Iot Aur	;	2.69;	4600;occ;	78;	0;	9608
7;	-3468.9;	01-JAN-2004	07:42:50;	Bright;	;	40.0;	107;	37The Aur	;	2.65;	11000;occ;	80;	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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17;	-1464.3;	01-JAN-2004	08:16:15;	Bright;	;	46.5;	83;		;	2.38;	11000;occ;	93;	0;	9608
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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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32; 417.1; 05-JAN-2004 15:04:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
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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
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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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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
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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
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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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35; 1092.6; 08-JAN-2004 06:58:07; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0; 9708
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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28; 339.5; 08-JAN-2004 08:26:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9709
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8;-3397.2; 08-JAN-2004 09:04:29; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0; 9709
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21;-980.6; 08-JAN-2004 09:44:46; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0; 9709
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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
5;	-4582.1;	08-JAN-2004	18:48:20;	Dark	;	43.5;	179;	240mi2CMa	;	3.03;	24000;	occ;	87;	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
18;	-2613.4;	08-JAN-2004	19:21:09;	Bright	;	37.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	74;	0;	9715
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
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32;	34.3;	08-JAN-2004	20:05:16;	Dark	;	53.0;	4;	Alp1Cen	;	-0.01;	5800;	occ;	106;	0;	9716
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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
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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8;-3550.6; 11-JAN-2004 07:27:04; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0; 9751
9;-3360.7; 11-JAN-2004 07:30:14; Bright; 37.5; 42; 34Bet Aur ; 1.90; 10200;occ; 75; 0; 9751
10;-3244.1; 11-JAN-2004 07:32:11; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0; 9751
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12;-2612.7; 11-JAN-2004 07:42:42; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0; 9751
13;-2507.4; 11-JAN-2004 07:44:27; Bright; 56.0; 82; 48Bet UMa ; 2.37; 10600;occ; 112; 0; 9751
14;-2364.0; 11-JAN-2004 07:46:51; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0; 9751
15;-2193.9; 11-JAN-2004 07:49:41; Bright; 52.0; 32; 77Eps UMa ; 1.76; 11000;occ; 104; 0; 9751
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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
18;-1683.5; 11-JAN-2004 07:58:11; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0; 9751
19;-1431.6; 11-JAN-2004 08:02:23; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0; 9751
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21;-1111.1; 11-JAN-2004 08:07:44; Bright; 78.5; 111; 8Eta Boo ; 2.68; 6000;occ; 157; 0; 9751
22;-878.9; 11-JAN-2004 08:11:36; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0; 9751
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26;-119.7; 11-JAN-2004 08:24:15; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0; 9751
27; 247.1; 11-JAN-2004 08:30:22; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0; 9752
28; 342.4; 11-JAN-2004 08:31:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9752
29; 501.4; 11-JAN-2004 08:34:36; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9752
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31; 701.3; 11-JAN-2004 08:37:56; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0; 9752
32; 782.6; 11-JAN-2004 08:39:17; Dark ; 53.0; 41; Eps Car ; 1.86; 4100;occ; 106; 0; 9752
33; 1010.7; 11-JAN-2004 08:43:05; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0; 9752
34; 1110.4; 11-JAN-2004 08:44:45; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0; 9752
35; 1217.8; 11-JAN-2004 08:46:33; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0; 9752
36; 1375.0; 11-JAN-2004 08:49:10; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0; 9752
37; 1461.6; 11-JAN-2004 08:50:36; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0; 9752
38; 1598.7; 11-JAN-2004 08:52:53; Dark ; 46.5; 1; 9Alp CMA ; -1.44; 11000;occ; 93; 0; 9752

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3;	-4244.9;	11-JAN-2004	10:36:42;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;occ;	104;	0;	9753
4;	-4141.3;	11-JAN-2004	10:38:25;	Dark	;	40.5;	30;	46Eps Ori	;	1.69;	30000;occ;	81;	0;	9753
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7;	-3739.5;	11-JAN-2004	10:45:07;	Bright;		42.0;	151;	13Mu Gem	;	2.89;	3000;occ;	84;	0;	9753
8;	-3639.1;	11-JAN-2004	10:46:47;	Bright;		39.0;	28;	12Bet Tau	;	1.65;	15200;occ;	78;	0;	9753
9;	-3550.4;	11-JAN-2004	10:48:16;	Bright;		38.0;	114;	3Iot Aur	;	2.69;	4600;occ;	76;	0;	9753
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11;	-3243.7;	11-JAN-2004	10:53:23;	Bright;		37.0;	175;	39Del Per	;	3.01;	19400;occ;	74;	0;	9753
12;	-3105.7;	11-JAN-2004	10:55:41;	Bright;		36.5;	160;	23Gam Per	;	2.93;	4700;occ;	73;	0;	9753
13;	-2613.1;	11-JAN-2004	11:03:53;	Bright;		38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;	9753
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16;	-2194.7;	11-JAN-2004	11:10:52;	Bright;		53.0;	32;	77Eps UMa	;	1.76;	11000;occ;	106;	0;	9753
17;	-1968.1;	11-JAN-2004	11:14:38;	Bright;		35.5;	130;	23Bet Dra	;	2.80;	5800;occ;	71;	0;	9753
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19;	-1683.2;	11-JAN-2004	11:19:23;	Bright;		49.0;	180;	27Gam Boo	;	3.04;	8000;occ;	98;	0;	9753
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23;	-878.6;	11-JAN-2004	11:32:48;	Bright;		52.0;	98;	13Zet Oph	;	2.57;	30000;occ;	104;	0;	9753
24;	-611.5;	11-JAN-2004	11:37:15;	Dark	;	46.0;	16;	21Alp Sco	;	1.02;	3000;occ;	92;	0;	9753
25;	-306.1;	11-JAN-2004	11:42:20;	Dark	;	38.5;	131;	Gam Lup	;	2.80;	26000;occ;	77;	0;	9753
26;	-209.2;	11-JAN-2004	11:43:57;	Dark	;	41.0;	109;	Bet Lup	;	2.68;	26000;occ;	82;	0;	9753
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32;	701.7;	11-JAN-2004	11:59:08;	Dark	;	50.0;	71;	Iot Car	;	2.25;	7700;occ;	100;	0;	9754
33;	782.9;	11-JAN-2004	12:00:29;	Dark	;	51.0;	41;	Eps Car	;	1.86;	4100;occ;	102;	0;	9754
34;	1010.6;	11-JAN-2004	12:04:17;	Dark	;	46.0;	2;	Alp Car	;	-0.74;	7000;occ;	92;	0;	9754
35;	1111.4;	11-JAN-2004	12:05:58;	Dark	;	42.0;	70;	Zet Pup	;	2.25;	39000;occ;	84;	0;	9754
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38;	1461.4;	11-JAN-2004	12:11:48;	Dark	;	43.0;	179;	240mi2CMA	;	3.03;	24000;occ;	86;	0;	9754

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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
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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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 34; 504.7; 11-JAN-2004 18:38:15; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0; 9758
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 37; 784.4; 11-JAN-2004 18:42:55; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0; 9758
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12;-2420.7; 31-JAN-2004 12:18:55; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;10040
13;-2251.1; 31-JAN-2004 12:21:45; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;10040
14;-2138.8; 31-JAN-2004 12:23:37; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;10040
15;-1950.7; 31-JAN-2004 12:26:45; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;10040
16;-1734.6; 31-JAN-2004 12:30:21; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;10040
17;-1553.0; 31-JAN-2004 12:33:23; Bright; 45.0; 133; 40Zet Her ; 2.81; 6000;occ; 90; 0;10040
18;-1312.8; 31-JAN-2004 12:37:23; Bright; 98.5; 83; ; 2.38; 11000;occ; 197; 0;10040
19;-1116.9; 31-JAN-2004 12:40:39; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;10040
20; -913.2; 31-JAN-2004 12:44:02; Dark ; 71.5; 102; 24Alp Ser ; 2.60; 4250;occ; 143; 0;10040
21; -730.8; 31-JAN-2004 12:47:05; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;10040
22; -564.3; 31-JAN-2004 12:49:51; Dark ; 42.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 85; 0;10040
23; -474.8; 31-JAN-2004 12:51:21; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;10040
24; -336.0; 31-JAN-2004 12:53:40; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;10040
25; -216.2; 31-JAN-2004 12:55:39; Dark ; 70.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 140; 0;10040
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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