

GOMOS Daily Report 18-JAN-2004

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

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

[2.2 Level 1 products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[7. Statistics on SATU Noise Equivalent Angle](#)

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	19JAN2004 06:52:27
Data source version	<Any version>
Start time of products	18-JAN-2004 (18JAN2004 00:00:00)
Stop time of products	19-JAN-2004 (19JAN2004 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

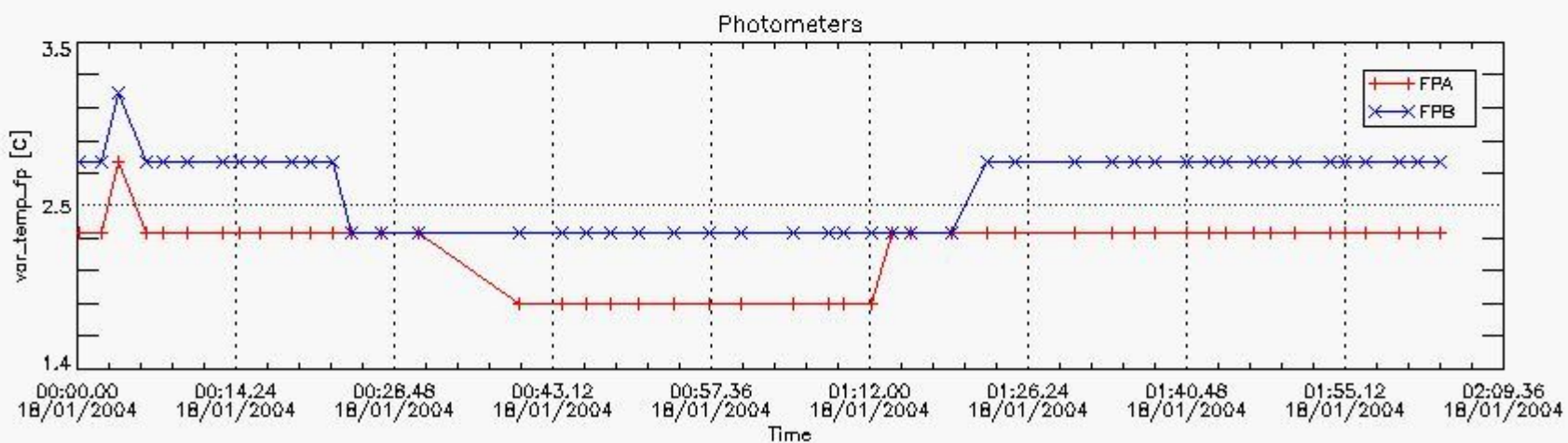
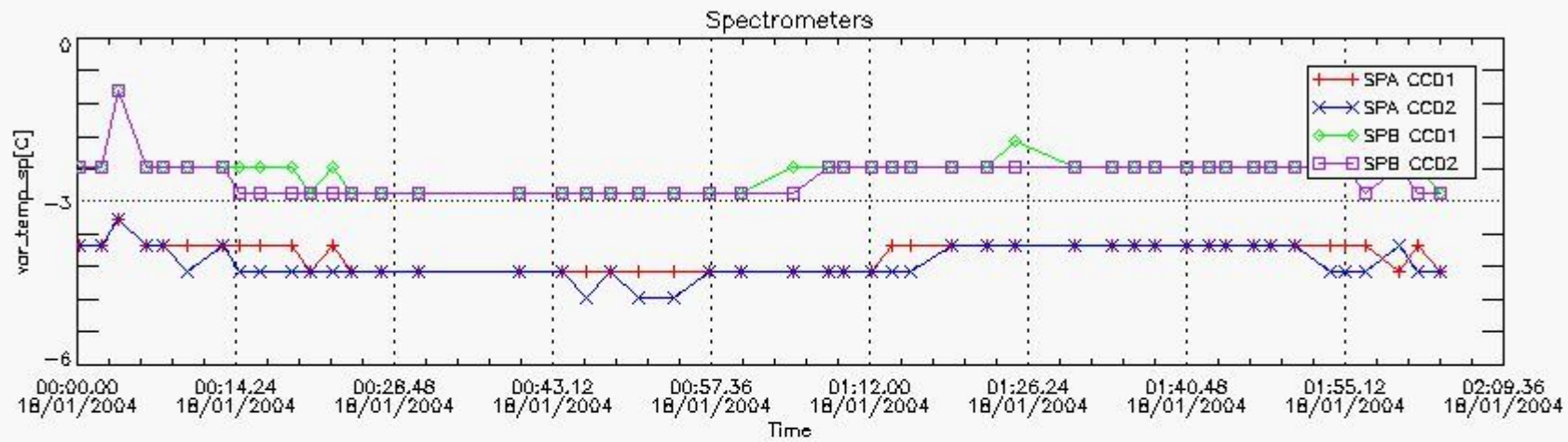
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040118_000014_000000442023_00274_09847_0036.N1	18-JAN-2004 00:00:14	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	9847	No
GOM_TRA_1PNPDE20040118_000210_000000442023_00274_09847_0037.N1	18-JAN-2004 00:02:10	Dark	44.000	70	Zet Pup	2.2460	39000.	88	9847	No
GOM_TRA_1PNPDE20040118_000347_000000462023_00274_09847_0000.N1	18-JAN-2004 00:03:47	Dark	46.000	117	Pi Pup	2.7060	3800.0	92	9847	Yes
GOM_TRA_1PNPDE20040118_000620_000000412023_00274_09847_0001.N1	18-JAN-2004 00:06:20	Dark	41.000	23	21Eps CMa	1.5020	26000.	82	9847	No
GOM_TRA_1PNPDE20040118_000744_000000422023_00274_09847_0002.N1	18-JAN-2004 00:07:44	Dark	42.000	179	24Omi2CMa	3.0320	24000.	84	9847	No
GOM_TRA_1PNPDE20040118_000956_000000492023_00274_09847_0003.N1	18-JAN-2004 00:09:56	Dark	48.500	1	9Alp CMa	-1.4400	11000.	97	9847	No
GOM_TRA_1PNPDE20040118_001316_000000482023_00274_09847_0004.N1	18-JAN-2004 00:13:16	Dark	47.500	7	19Bet Ori	0.10000	14000.	95	9847	No
GOM_TRA_1PNPDE20040118_001439_000000442023_00274_09847_0005.N1	18-JAN-2004 00:14:39	Dark	43.500	33	50Zet Ori	1.7660	30000.	87	9847	No
GOM_TRA_1PNPDE20040118_001632_000000592023_00274_09847_0006.N1	18-JAN-2004 00:16:32	Dark	59.000	8	10Alp CMi	0.40000	6500.0	118	9847	No
GOM_TRA_1PNPDE20040118_001929_000000532023_00274_09847_0007.N1	18-JAN-2004 00:19:29	Dark	53.000	44	24Gam Gem	1.9280	11000.	106	9847	No
GOM_TRA_1PNPDE20040118_002114_000000442023_00274_09847_0008.N1	18-JAN-2004 00:21:14	Bright	43.500	151	13Mu Gem	2.8900	3000.0	87	9847	No
GOM_TRA_1PNPDE20040118_002311_000000412023_00274_09847_0009.N1	18-JAN-2004 00:23:11	Bright	41.000	28	12Bet Tau	1.6500	15200.	82	9847	No
GOM_TRA_1PNPDE20040118_002451_000000382023_00274_09847_0010.N1	18-JAN-2004 00:24:51	Bright	38.000	114	3Iot Aur	2.6930	4600.0	76	9847	No
GOM_TRA_1PNPDE20040118_002735_000000392023_00274_09847_0011.N1	18-JAN-2004 00:27:35	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	9847	No
GOM_TRA_1PNPDE20040118_003104_000000972023_00274_09847_0012.N1	18-JAN-2004 00:31:04	Bright	96.500	166	17Eps Leo	2.9800	6000.0	193	9847	No
GOM_TRA_1PNPDE20040118_004008_000000392023_00274_09847_0013.N1	18-JAN-2004 00:40:08	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	9847	No
GOM_TRA_1PNPDE20040118_004402_000000412023_00274_09847_0014.N1	18-JAN-2004 00:44:02	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	9847	No
GOM_TRA_1PNPDE20040118_004611_000000532023_00274_09847_0015.N1	18-JAN-2004 00:46:11	Bright	53.000	32	77Eps UMa	1.7630	11000.	106	9847	No
GOM_TRA_1PNPDE20040118_004824_000000392023_00274_09847_0016.N1	18-JAN-2004 00:48:24	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	9847	No
GOM_TRA_1PNPDE20040118_005102_000000392023_00274_09847_0017.N1	18-JAN-2004 00:51:02	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	9847	No
GOM_TRA_1PNPDE20040118_005413_000000362023_00274_09847_0018.N1	18-JAN-2004 00:54:13	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	9847	No
GOM_TRA_1PNPDE20040118_005722_000000402023_00274_09847_0019.N1	18-JAN-2004 00:57:22	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	9847	No
GOM_TRA_1PNPDE20040118_010020_000000612023_00274_09847_0020.N1	18-JAN-2004 01:00:20	Bright	60.500	83		2.3780	11000.	121	9847	No
GOM_TRA_1PNPDE20040118_010508_000001112023_00274_09847_0021.N1	18-JAN-2004 01:05:08	Dark	111.00	3	16Alp Boo	-0.050000	4250.0	222	9847	No
GOM_TRA_1PNPDE20040118_010814_000000452023_00274_09847_0022.N1	18-JAN-2004 01:08:14	Bright	45.000	120	1Del Oph	2.7340	3200.0	90	9847	No
GOM_TRA_1PNPDE20040118_010934_000000532023_00274_09847_0023.N1	18-JAN-2004 01:09:34	Bright	53.000	98	13Zet Oph	2.5710	30000.	106	9847	No
GOM_TRA_1PNPDE20040118_011207_000000532023_00274_09847_0024.N1	18-JAN-2004 01:12:07	Dark	53.000	104	27Bet Lib	2.6140	13100.	106	9847	No
GOM_TRA_1PNPDE20040118_011403_000000512023_00274_09847_0025.N1	18-JAN-2004 01:14:03	Dark	50.500	16	21Alp Sco	1.0200	3000.0	101	9847	No
GOM_TRA_1PNPDE20040118_011542_000000422023_00274_09847_0026.N1	18-JAN-2004 01:15:42	Dark	41.500	75	26Eps Sco	2.2910	4250.0	83	9847	No
GOM_TRA_1PNPDE20040118_011922_000000422023_00274_09847_0027.N1	18-JAN-2004 01:19:22	Dark	42.000	131	Gam Lup	2.8000	26000.	84	9847	No
GOM_TRA_1PNPDE20040118_012242_000000552023_00274_09847_0028.N1	18-JAN-2004 01:22:42	Dark	54.500	54	5The Cen	2.0550	4500.0	109	9847	No
GOM_TRA_1PNPDE20040118_012511_000000432023_00275_09848_0029.N1	18-JAN-2004 01:25:11	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	9848	No
GOM_TRA_1PNPDE20040118_013038_000000492023_00275_09848_0030.N1	18-JAN-2004 01:30:38	Dark	49.000	99	Del Cen	2.5750	26000.	98	9848	No
GOM_TRA_1PNPDE20040118_013405_000000412023_00275_09848_0031.N1	18-JAN-2004 01:34:05	Dark	41.000	29	Bet Car	1.6720	10200.	82	9848	No
GOM_TRA_1PNPDE20040118_013605_000000422023_00275_09848_0032.N1	18-JAN-2004 01:36:05	Dark	42.000	71	Iot Car	2.2460	7700.0	84	9848	No
GOM_TRA_1PNPDE20040118_013756_000000412023_00275_09848_0033.N1	18-JAN-2004 01:37:56	Dark	41.000	46	Del Vel	1.9540	10600.	82	9848	No
GOM_TRA_1PNPDE20040118_014050_000000462023_00275_09848_0034.N1	18-JAN-2004 01:40:50	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	9848	No
GOM_TRA_1PNPDE20040118_014247_000000432023_00275_09848_0035.N1	18-JAN-2004 01:42:47	Dark	42.500	70	Zet Pup	2.2460	39000.	85	9848	No
GOM_TRA_1PNPDE20040118_014423_000000492023_00275_09848_0036.N1	18-JAN-2004 01:44:23	Dark	48.500	117	Pi Pup	2.7060	3800.0	97	9848	No
GOM_TRA_1PNPDE20040118_014656_000000432023_00275_09848_0000.N1	18-JAN-2004 01:46:56	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	9848	No
GOM_TRA_1PNPDE20040118_014820_000000422023_00275_09848_0001.N1	18-JAN-2004 01:48:20	Dark	42.000	179	24Omi2CMa	3.0320	24000.	84	9848	No
GOM_TRA_1PNPDE20040118_015032_000000532023_00275_09848_0002.N1	18-JAN-2004 01:50:32	Dark	53.000	1	9Alp CMa	-1.4400	11000.	106	9848	No
GOM_TRA_1PNPDE20040118_015352_000000522023_00275_09848_0003.N1	18-JAN-2004 01:53:52	Dark	51.500	7	19Bet Ori	0.10000	14000.	103	9848	No
GOM_TRA_1PNPDE20040118_015515_000000422023_00275_09848_0004.N1	18-JAN-2004 01:55:15	Dark	42.000	33	50Zet Ori	1.7660	30000.	84	9848	No
GOM_TRA_1PNPDE20040118_015706_000000602023_00275_09848_0005.N1	18-JAN-2004 01:57:06	Dark	60.000	8	10Alp CMi	0.40000	6500.0	120	9848	No
GOM_TRA_1PNPDE20040118_020006_000000492023_00275_09848_0006.N1	18-JAN-2004 02:00:06	Dark	49.000	44	24Gam Gem	1.9280	11000.	98	9848	No
GOM_TRA_1PNPDE20040118_020148_000000462023_00275_09848_0007.N1	18-JAN-2004 02:01:48	Bright	46.000	151	13Mu Gem	2.8900	3000.0	92	9848	No
GOM_TRA_1PNPDE20040118_020347_000000412023_00275_09848_0008.N1	18-JAN-2004 02:03:47	Bright	40.500	28	12Bet Tau	1.6500	15200.	81	9848	No

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



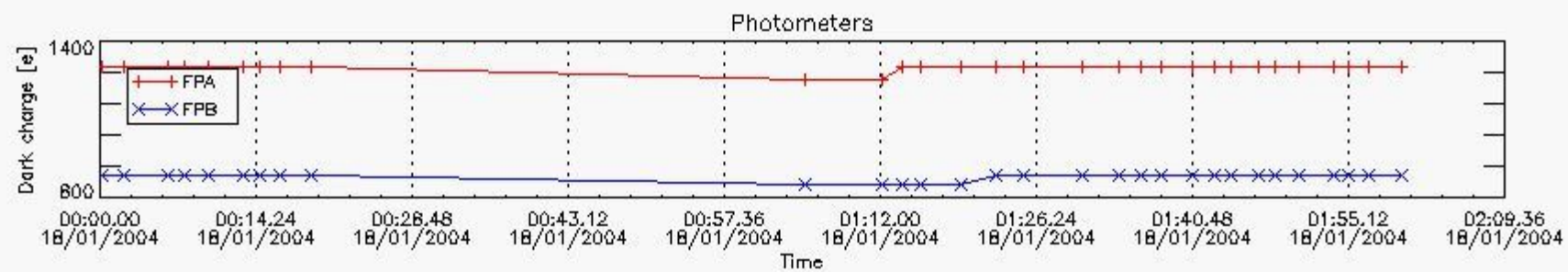
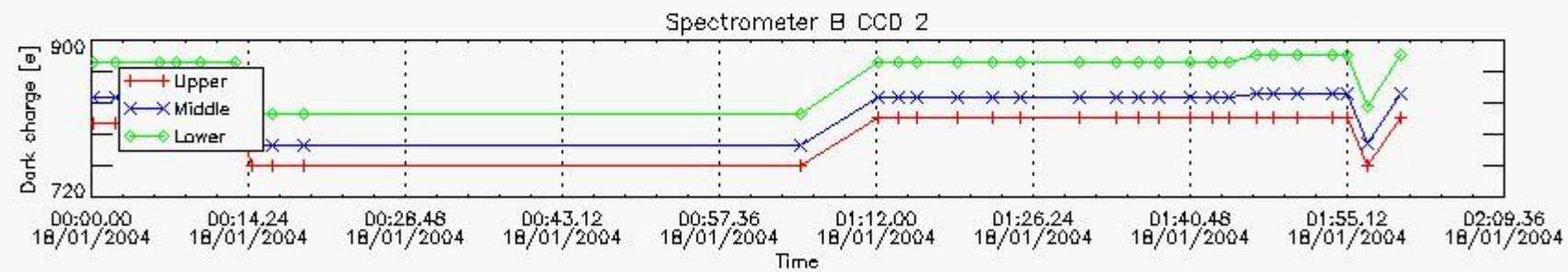
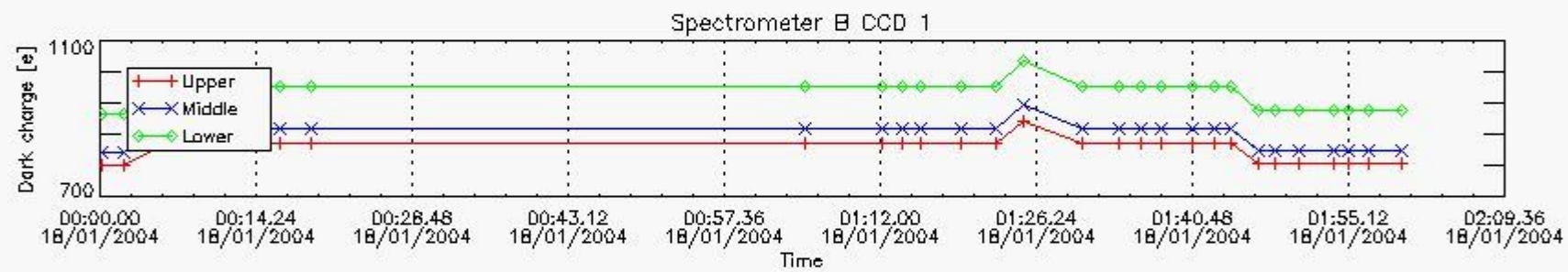
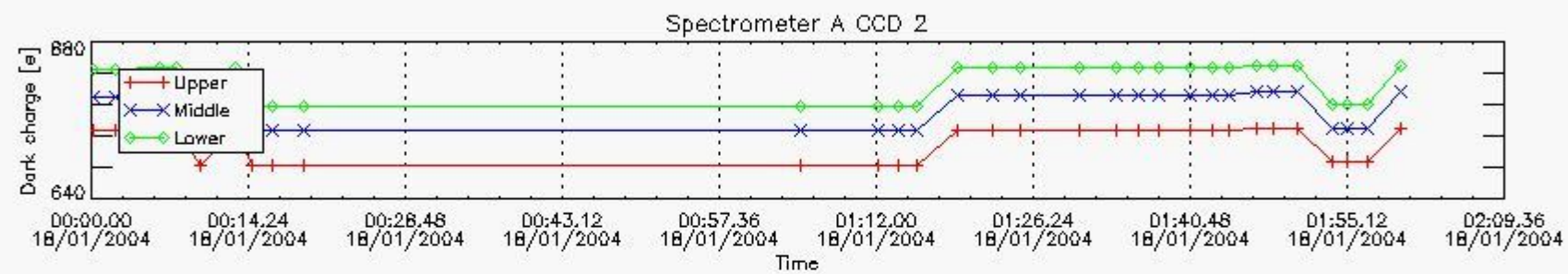
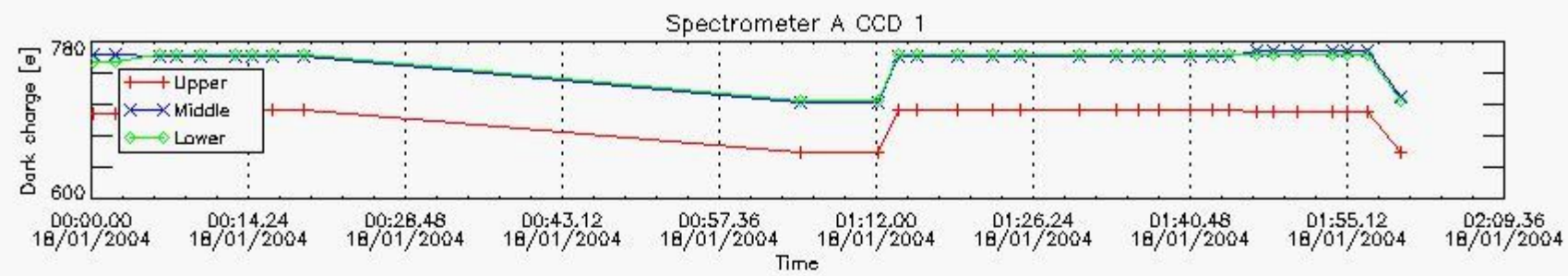
4. Overview of dark signal processing per product

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

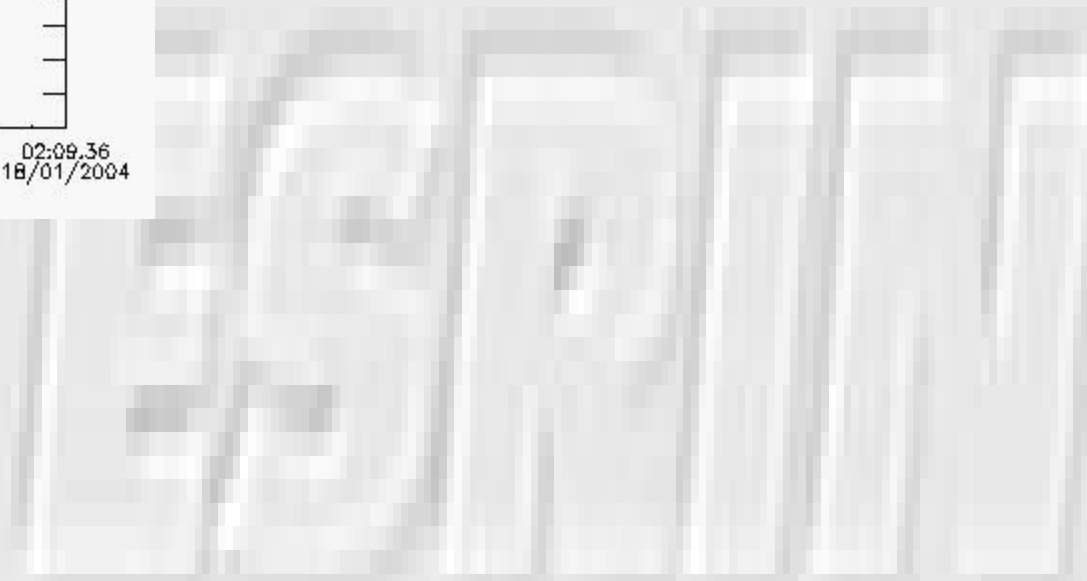
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



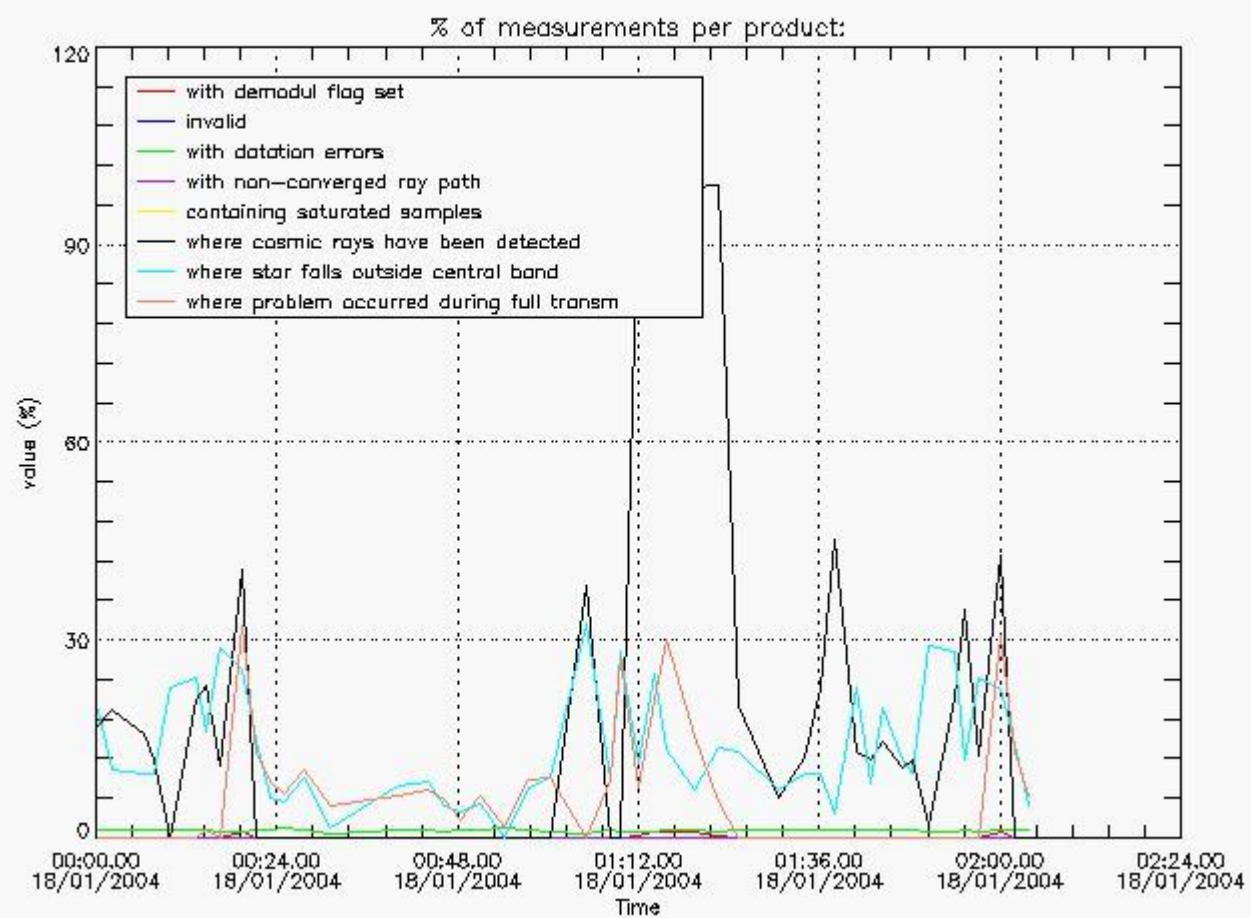
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	21.2766 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %



5.2 Plot quality information per product



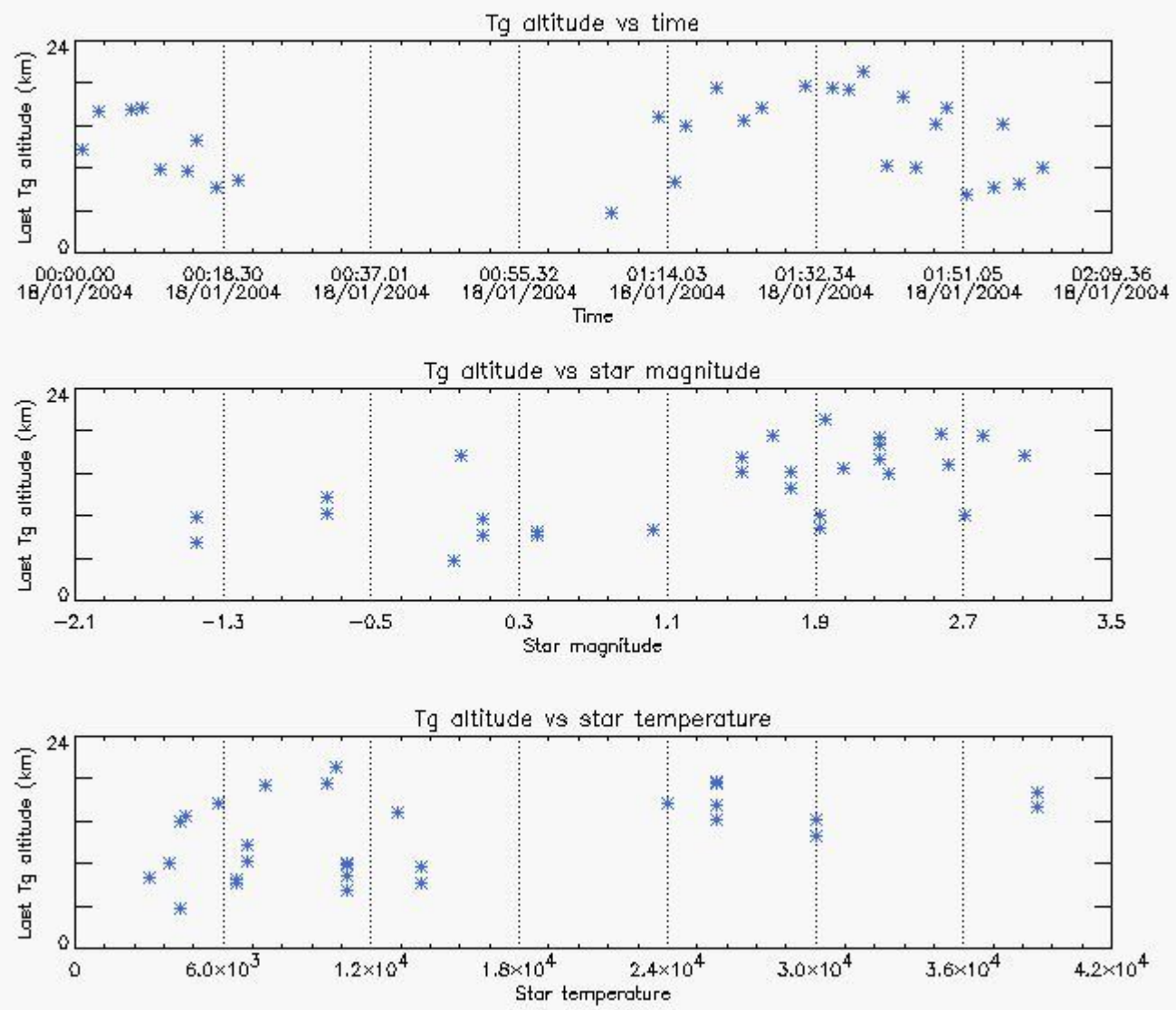
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.004	18.519
St. deviation:	4.5171	4.7400
Maximum:	20.555	27.304
Minimum:	4.5532	6.1048
Number of data:	30.000	17.000

6.2 Plot for DARK limb products

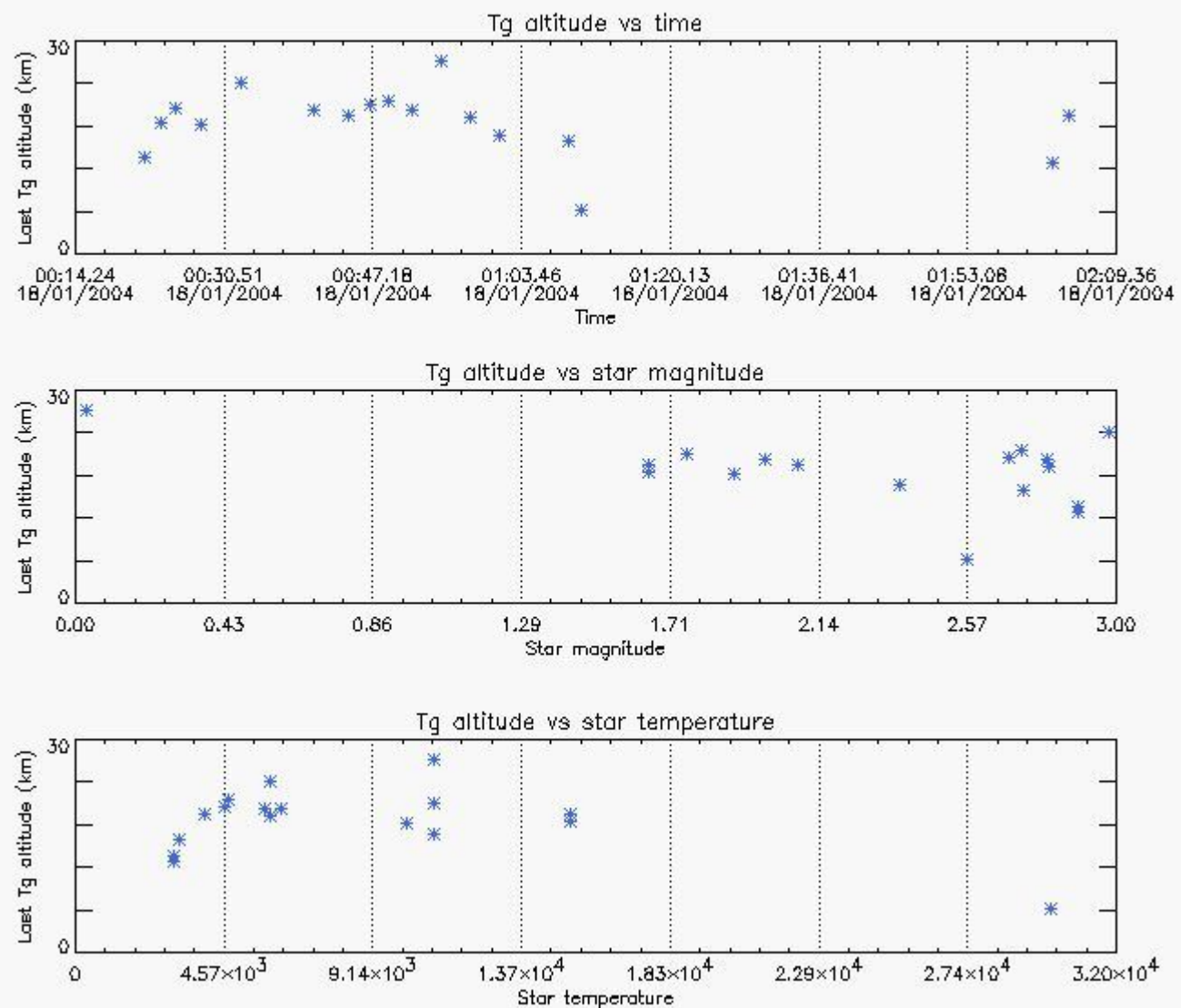
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



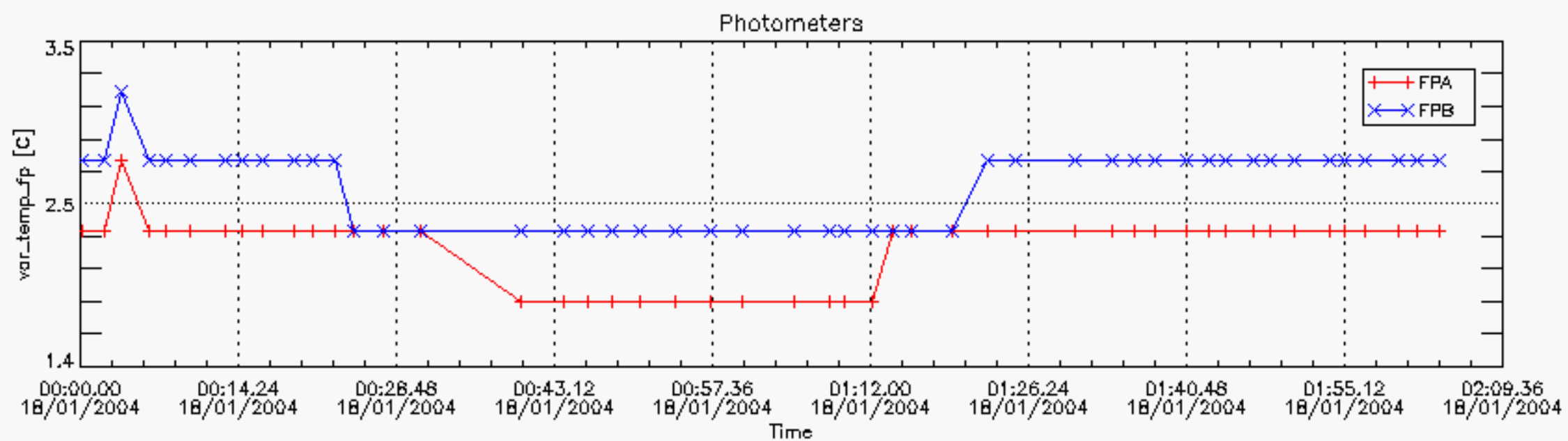
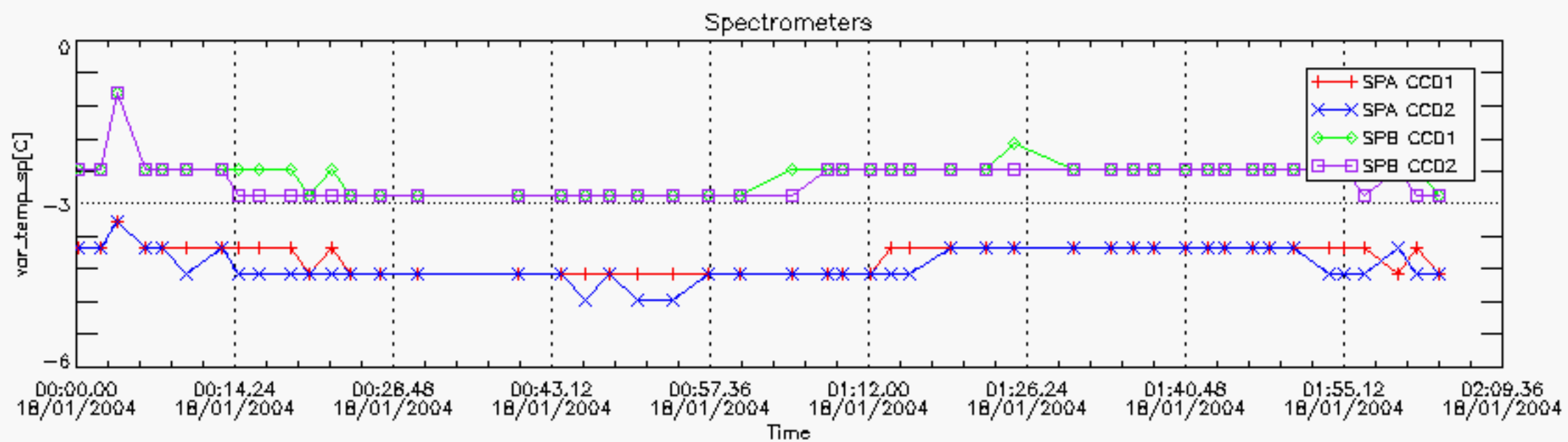
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

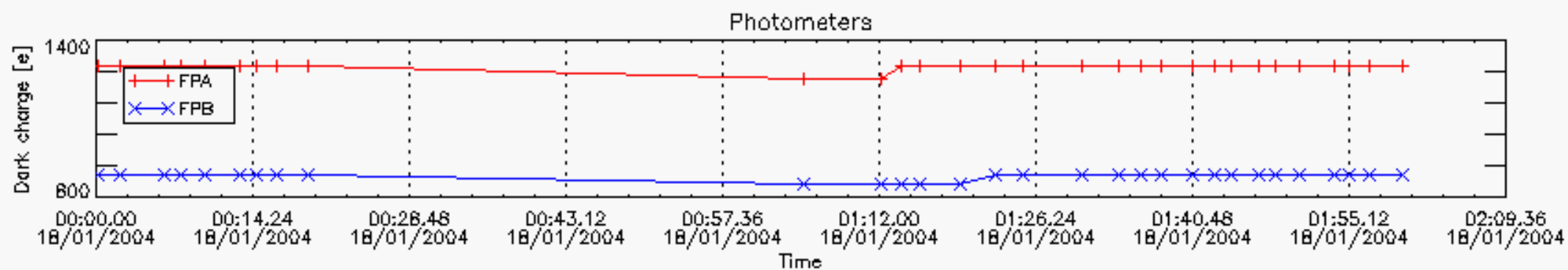
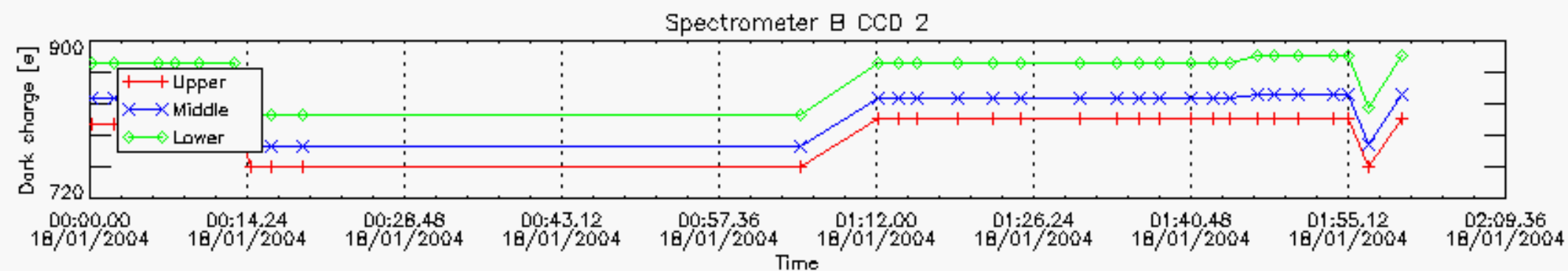
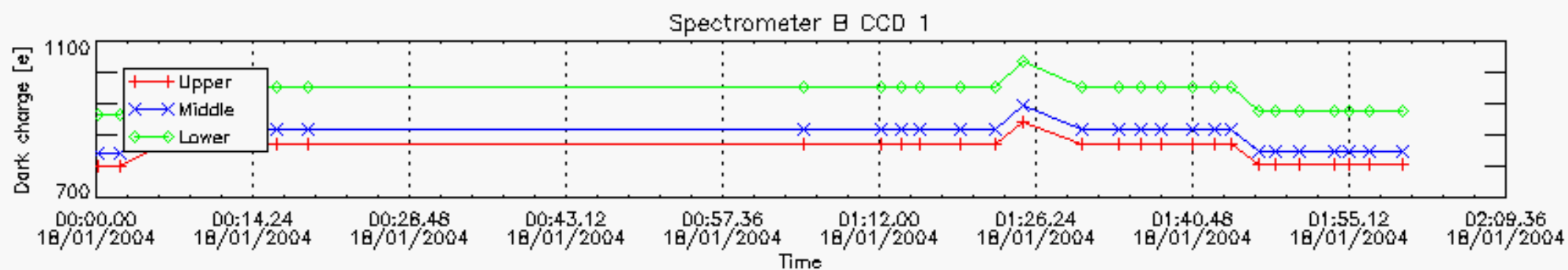
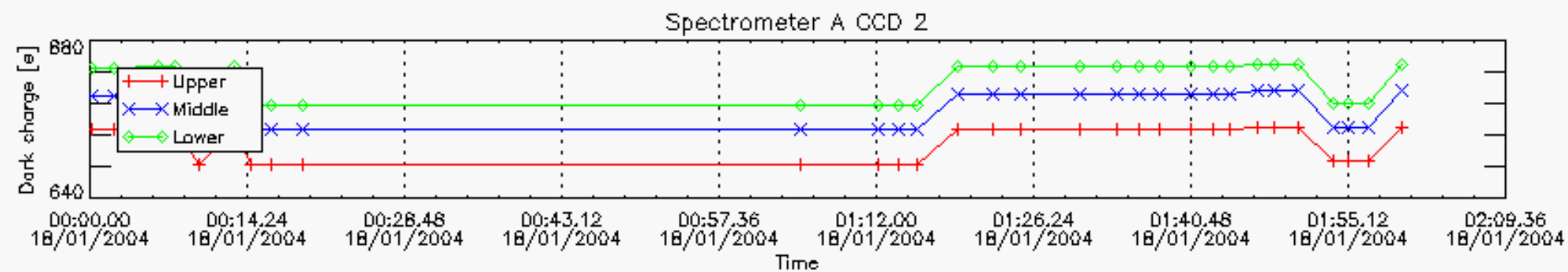
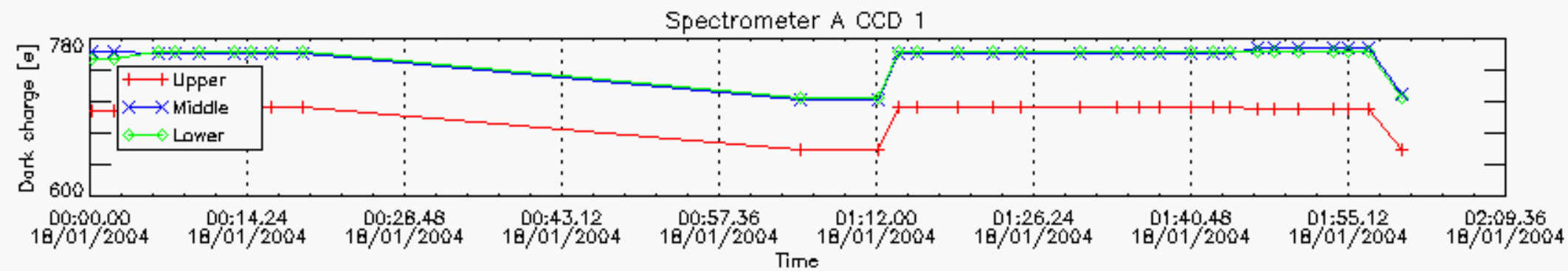
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

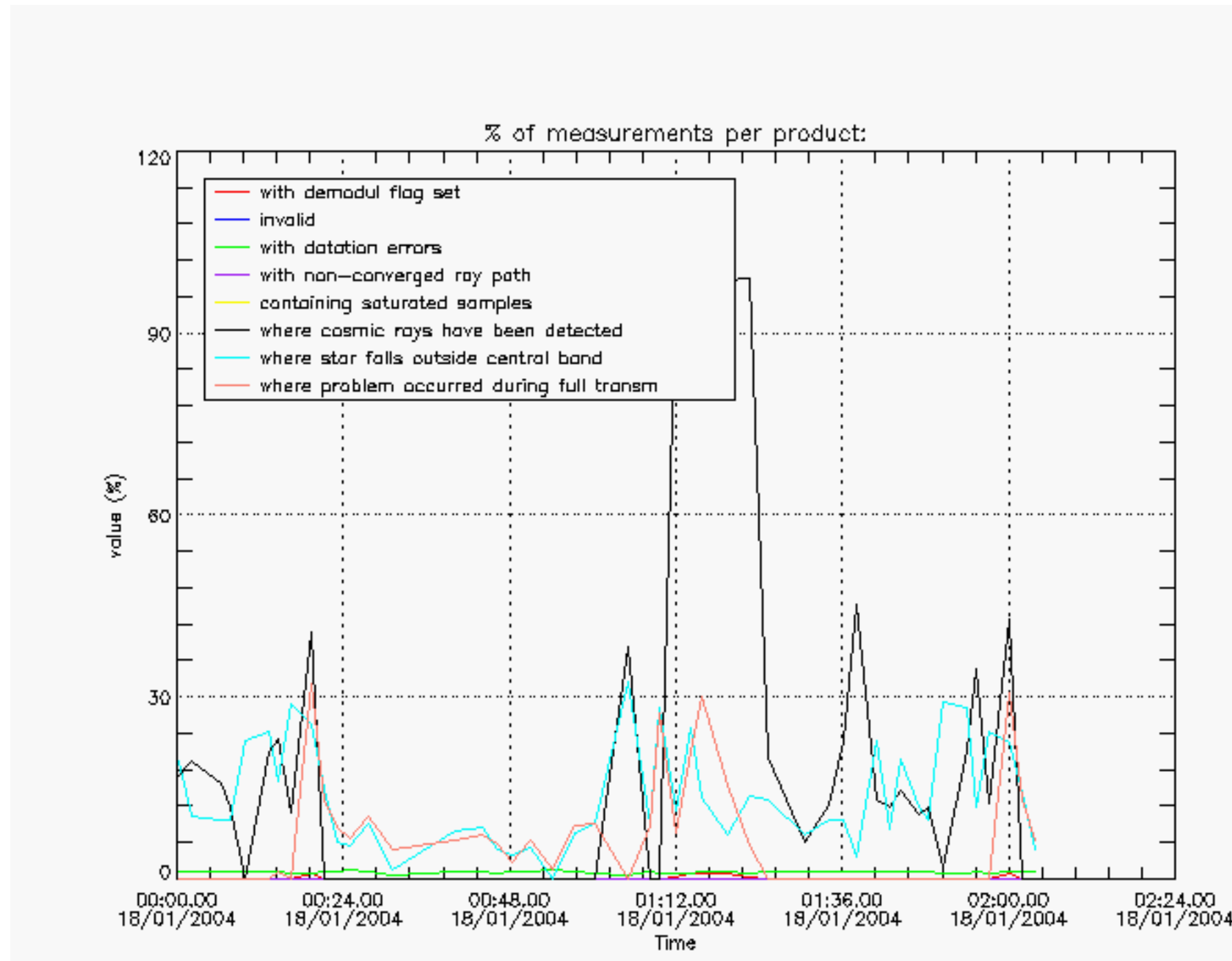
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.4	1446.9	1461.0	1447.6
St. deviation:	4.6631	6.0584	5.6059	6.6918
Maximum:	1523.0	1528.0	1498.0	1491.0
Minimum:	1445.0	1425.0	1439.0	1423.0
Number of data:	35150.	35150.	20900.	20900.



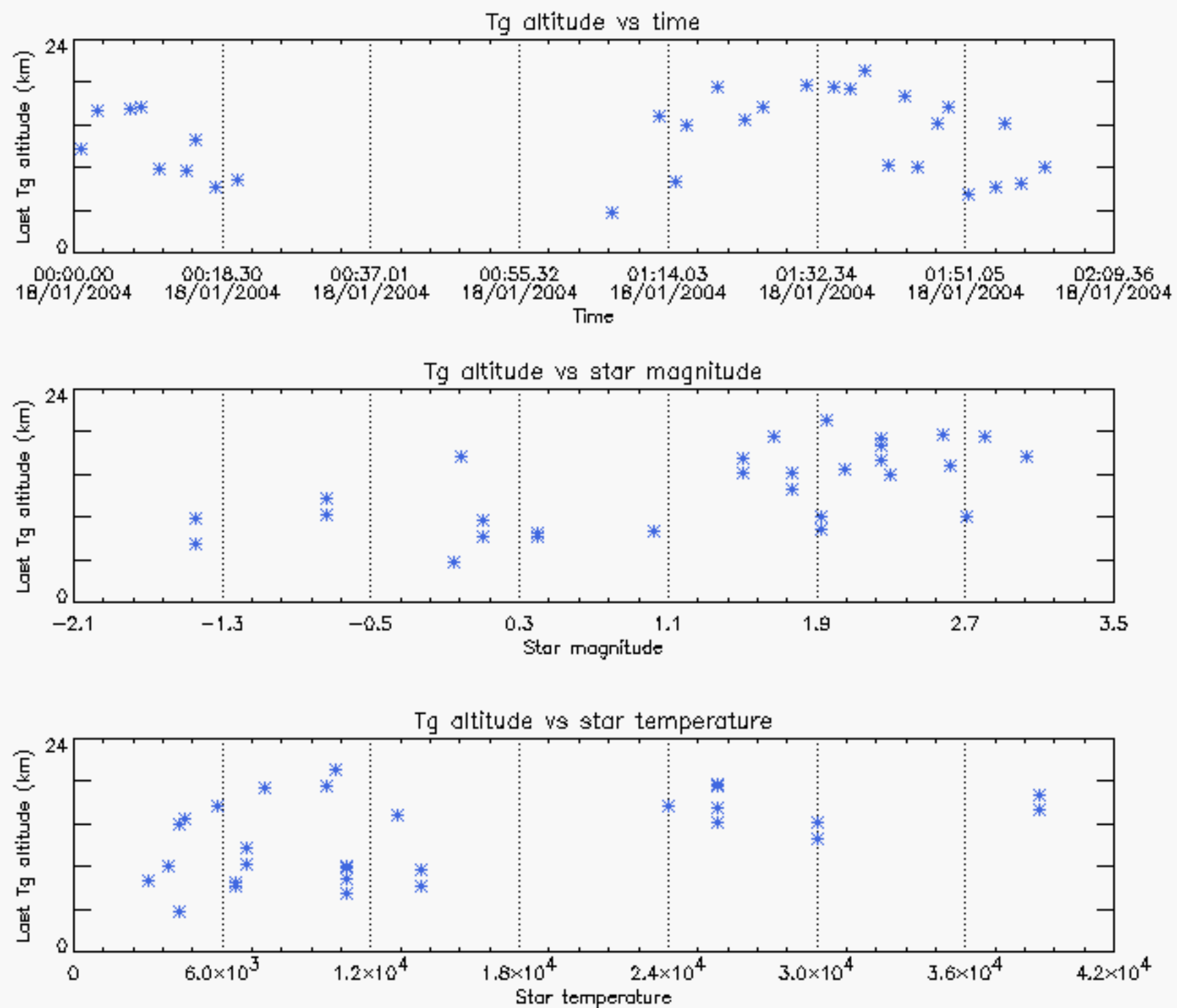




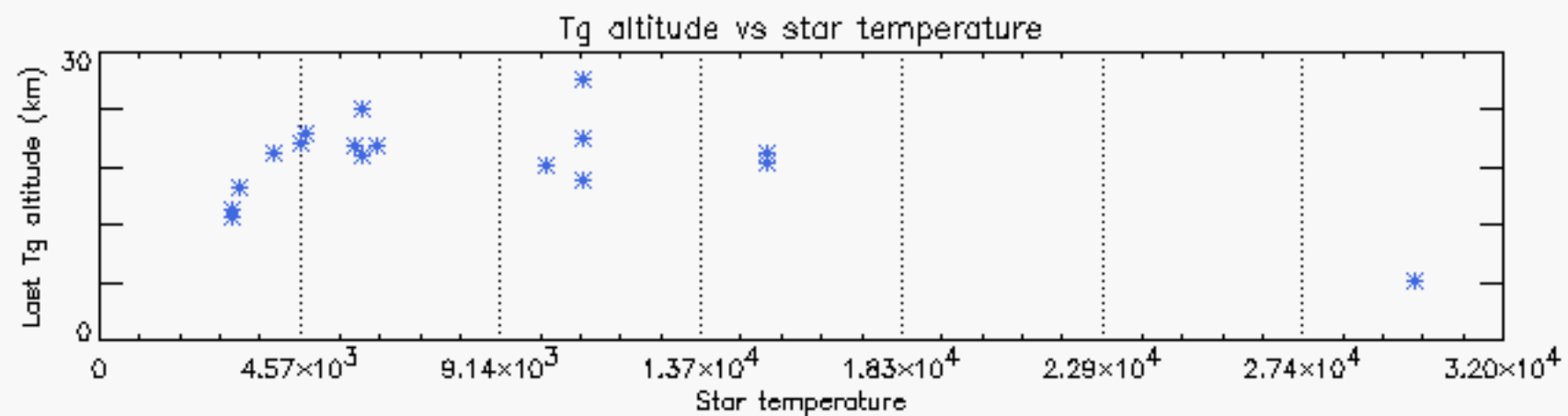
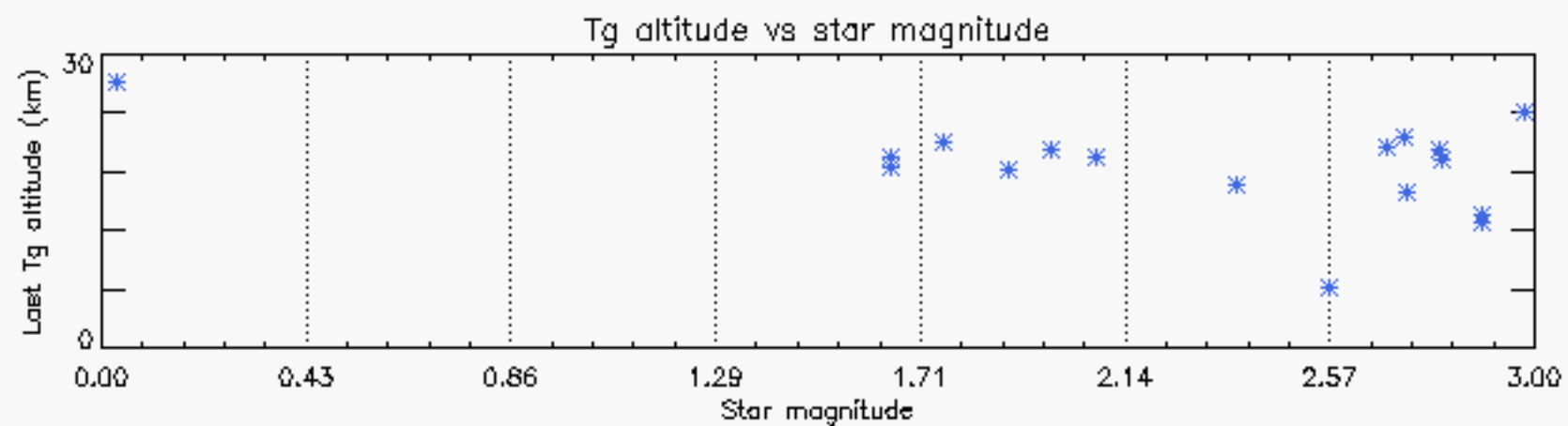
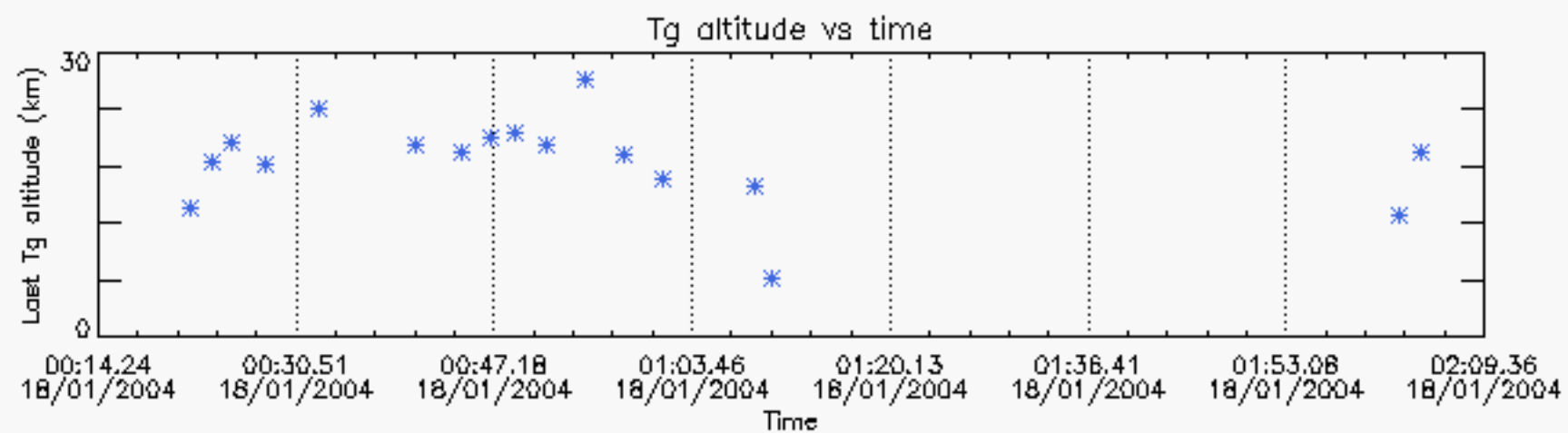




Tangent altitude at which the star is lost



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
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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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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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2;	-4153.3;	06-JAN-2004	09:55:08;	Dark	;	46.0;	30;	46Eps Ori	;	1.69;	30000;occ;	92;	0;	9681
3;	-4007.3;	06-JAN-2004	09:57:34;	Dark	;	50.0;	14;	58Alp Ori	;	0.87;	3000;occ;	100;	0;	9681
4;	-3828.0;	06-JAN-2004	10:00:33;	Dark	;	48.5;	44;	24Gam Gem	;	1.93;	11000;occ;	97;	0;	9681
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6;	-3643.6;	06-JAN-2004	10:03:37;	Bright;		40.0;	28;	12Bet Tau	;	1.65;	15200;occ;	80;	0;	9681
7;	-3563.5;	06-JAN-2004	10:04:57;	Bright;		42.0;	114;	3Iot Aur	;	2.69;	4600;occ;	84;	0;	9681
8;	-3406.2;	06-JAN-2004	10:07:35;	Bright;		35.5;	149;	45Eps Per	;	2.89;	30000;occ;	71;	0;	9681
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11;	-2616.5;	06-JAN-2004	10:20:44;	Bright;		40.0;	49;	1Alp UMi	;	1.99;	6300;occ;	80;	0;	9681
12;	-2487.9;	06-JAN-2004	10:22:53;	Bright;		49.5;	36;	50Alp UMa	;	1.80;	6300;occ;	99;	0;	9681
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17;	-1707.9;	06-JAN-2004	10:35:53;	Bright;		65.0;	152;	12Alp2CVn	;	2.89;	11000;occ;	130;	0;	9681
18;	-1447.2;	06-JAN-2004	10:40:14;	Bright;		47.5;	83;		;	2.38;	11000;occ;	95;	0;	9681
19;	-1317.9;	06-JAN-2004	10:42:23;	Bright;		35.0;	59;	55Alp Oph	;	2.08;	8900;occ;	70;	0;	9681
20;	-1167.1;	06-JAN-2004	10:44:54;	Bright;		63.0;	111;	8Eta Boo	;	2.68;	6000;occ;	126;	0;	9681
21;	-989.9;	06-JAN-2004	10:47:51;	Bright;		38.0;	120;	1Del Oph	;	2.73;	3200;occ;	76;	0;	9681
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23;	-662.8;	06-JAN-2004	10:53:18;	Dark	;	46.0;	80;	7Del Sco	;	2.32;	30000;occ;	92;	0;	9681
24;	-367.3;	06-JAN-2004	10:58:14;	Dark	;	76.0;	15;	67Alp Vir	;	0.98;	28000;occ;	152;	0;	9681
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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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35;	1080.3;	06-JAN-2004	11:22:21;	Dark	;	47.5;	70;	Zet Pup	;	2.25;	39000;occ;	95;	0;	9682
36;	1193.0;	06-JAN-2004	11:24:14;	Dark	;	52.0;	117;	Pi Pup	;	2.71;	3800;occ;	104;	0;	9682
37;	1355.1;	06-JAN-2004	11:26:56;	Dark	;	47.0;	23;	21Eps CMa	;	1.50;	26000;occ;	94;	0;	9682
38;	1447.1;	06-JAN-2004	11:28:28;	Dark	;	42.0;	179;	240mi2CMA	;	3.03;	24000;occ;	84;	0;	9682

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3;	-4588.7;	06-JAN-2004	16:30:16;	Dark	;	47.0;	179;	240mi2CMA	;	3.03;	24000;occ;	94;	0;	9685
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15;	-2614.1;	06-JAN-2004	17:03:10;	Bright;		37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	9685
16;	-2490.7;	06-JAN-2004	17:05:14;	Bright;		51.0;	36;	50Alp UMa	;	1.80;	6300;occ;	102;	0;	9685
17;	-2355.0;	06-JAN-2004	17:07:30;	Bright;		39.5;	60;	7Bet UMi	;	2.08;	3950;occ;	79;	0;	9685
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36; 755.9; 06-JAN-2004 17:59:20; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0; 9686
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4; -4678.0; 06-JAN-2004 18:09:23; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0; 9686
5; -4588.7; 06-JAN-2004 18:10:52; Dark ; 45.5; 179; 240mi2CMa ; 3.03; 24000;occ; 91; 0; 9686
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8; -3401.9; 07-JAN-2004 11:16:38; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0; 9696
9; -3264.0; 07-JAN-2004 11:18:55; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0; 9696
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22; -802.7; 07-JAN-2004 11:59:57; Dark ; 48.5; 104; 27Bet Lib ; 2.61; 13100;occ; 97; 0; 9696
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35; 1204.8; 08-JAN-2004 08:40:35; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 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
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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
8;	-4147.8;	08-JAN-2004	18:55:34;	Dark	;	46.0;	30;	46Eps Ori	;	1.69;	30000;	occ;	92;	0;	9715
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13;	-3556.7;	08-JAN-2004	19:05:25;	Bright	;	39.5;	114;	3Iot Aur	;	2.69;	4600;	occ;	79;	0;	9715
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
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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
33;	225.4;	08-JAN-2004	20:08:27;	Dark	;	42.5;	20;	Bet Cru	;	1.25;	30000;	occ;	85;	0;	9716
34;	362.4;	08-JAN-2004	20:10:44;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	9716
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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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
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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
15;	-3357.0;	08-JAN-2004	20:49:21;	Bright	;	38.5;	42;	34Bet Aur	;	1.90;	10200;	occ;	77;	0;	9716
16;	-3257.1;	08-JAN-2004	20:51:01;	Bright	;	37.0;	175;	39Del Per	;	3.01;	19400;	occ;	74;	0;	9716
17;	-3121.8;	08-JAN-2004	20:53:16;	Bright	;	38.5;	160;	23Gam Per	;	2.93;	4700;	occ;	77;	0;	9716
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
20;	-2359.4;	08-JAN-2004	21:05:58;	Bright	;	40.0;	60;	7Bet UMi	;	2.08;	3950;	occ;	80;	0;	9716
21;	-2174.4;	08-JAN-2004	21:09:04;	Bright	;	50.0;	32;	77Eps UMa	;	1.76;	11000;	occ;	100;	0;	9716
22;	-1972.4;	08-JAN-2004	21:12:25;	Bright	;	52.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	104;	0;	9716
23;	-1717.0;	08-JAN-2004	21:16:41;	Bright	;	72.5;	152;	12Alp2CVn	;	2.89;	11000;	occ;	145;	0;	9716
24;	-1440.6;	08-JAN-2004	21:21:17;	Bright	;	53.0;	83;		;	2.38;	11000;	occ;	106;	0;	9716
25;	-1313.6;	08-JAN-2004	21:23:24;	Bright	;	36.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	73;	0;	9716
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27;	-978.0;	08-JAN-2004	21:29:00;	Bright	;	39.0;	120;	1Del Oph	;	2.73;	3200;	occ;	78;	0;	9716
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/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040110_074704_000058922023_00164_09737_0634.N1

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```

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32; 1007.8; 10-JAN-2004 10:55:16; Dark ; 51.5; 2; Alp Car ;-0.74; 7000;occ; 103; 0; 9739
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```

```

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30; 7.3; 12-JAN-2004 19:38:56; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0; 9773
31; 259.6; 12-JAN-2004 19:43:08; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0; 9773
32; 362.2; 12-JAN-2004 19:44:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9773
33; 512.0; 12-JAN-2004 19:47:21; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0; 9773
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23; -293.6; 13-JAN-2004 08:58:42; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0; 9780
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8; -94.4; 14-JAN-2004 06:49:49; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0; 9793
9; 65.9; 14-JAN-2004 06:52:29; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0; 9794
10; 272.4; 14-JAN-2004 06:55:55; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0; 9794
11; 382.0; 14-JAN-2004 06:57:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9794
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28; 537.0; 16-JAN-2004 07:37:41; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0; 9823
29; 617.7; 16-JAN-2004 07:39:02; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0; 9823
30; 734.0; 16-JAN-2004 07:40:58; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0; 9823
31; 846.1; 16-JAN-2004 07:42:50; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0; 9823
32; 1023.6; 16-JAN-2004 07:45:48; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0; 9823
33; 1137.1; 16-JAN-2004 07:47:41; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0; 9823
34; 1237.1; 16-JAN-2004 07:49:21; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0; 9823
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36; 1475.3; 16-JAN-2004 07:53:19; Dark ; 40.5; 179; 240mi2CMA ; 3.03; 24000;occ; 81; 0; 9823
37; 1608.6; 16-JAN-2004 07:55:33; Dark ; 47.0; 1; 9Alp CMa ;-1.44; 11000;occ; 94; 0; 9823
38; 1805.2; 16-JAN-2004 07:58:49; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0; 9823
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```



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26; 396.6; 16-JAN-2004 09:15:57; Dark ; 48.0; 99; Del Cen ; 2.58; 26000;occ; 96; 0; 9824
27; 537.4; 16-JAN-2004 09:18:17; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0; 9824
28; 617.9; 16-JAN-2004 09:19:38; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0; 9824
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32; 1137.0; 16-JAN-2004 09:28:17; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0; 9824
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25; 280.9; 16-JAN-2004 10:54:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9825
26; 397.9; 16-JAN-2004 10:56:34; Dark ; 46.0; 99; Del Cen ; 2.58; 26000;occ; 92; 0; 9825
27; 537.6; 16-JAN-2004 10:58:53; Dark ; 41.0; 124; The Car ; 2.76; 30000;occ; 82; 0; 9825
28; 617.9; 16-JAN-2004 11:00:14; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0; 9825
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30; 846.7; 16-JAN-2004 11:04:03; Dark ; 45.5; 46; Del Vel ; 1.95; 10600;occ; 91; 0; 9825
31; 1023.6; 16-JAN-2004 11:06:59; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0; 9825
32; 1137.9; 16-JAN-2004 11:08:54; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0; 9825
33; 1237.3; 16-JAN-2004 11:10:33; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0; 9825
34; 1389.9; 16-JAN-2004 11:13:06; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0; 9825
35; 1475.5; 16-JAN-2004 11:14:31; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0; 9825
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```

```

7;-3631.5; 16-JAN-2004 11:30:00; Bright; 39.0; 28; 12Bet Tau ; 1.65; 15200;occ; 78; 0; 9825
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10;-3096.6; 16-JAN-2004 11:38:55; Bright; 105.5; 166; 17Eps Leo ; 2.98; 6000;occ; 211; 0; 9825
11;-2612.3; 16-JAN-2004 11:46:59; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0; 9825
12;-2375.8; 16-JAN-2004 11:50:56; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0; 9825
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32; 617.3; 16-JAN-2004 12:40:49; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0; 9826
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34; 846.3; 16-JAN-2004 12:44:38; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0; 9826
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31; 618.1; 16-JAN-2004 14:21:26; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0; 9827
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33; 846.7; 16-JAN-2004 14:25:14; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0; 9827

```

```

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8;-3473.1; 31-JAN-2004 12:01:23; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;10040
9;-3348.0; 31-JAN-2004 12:03:28; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;10040
10;-2769.0; 31-JAN-2004 12:13:07; Bright; 50.0; 82; 48Bet UMa ; 2.37; 10600;occ; 100; 0;10040
11;-2609.8; 31-JAN-2004 12:15:46; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;10040
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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