

GOMOS Daily Report 31-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	01FEB2004 06:54:17
Data source version	<Any version>
Start time of products	31-JAN-2004 (31JAN2004 00:00:00)
Stop time of products	01-FEB-2004 (01FEB2004 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

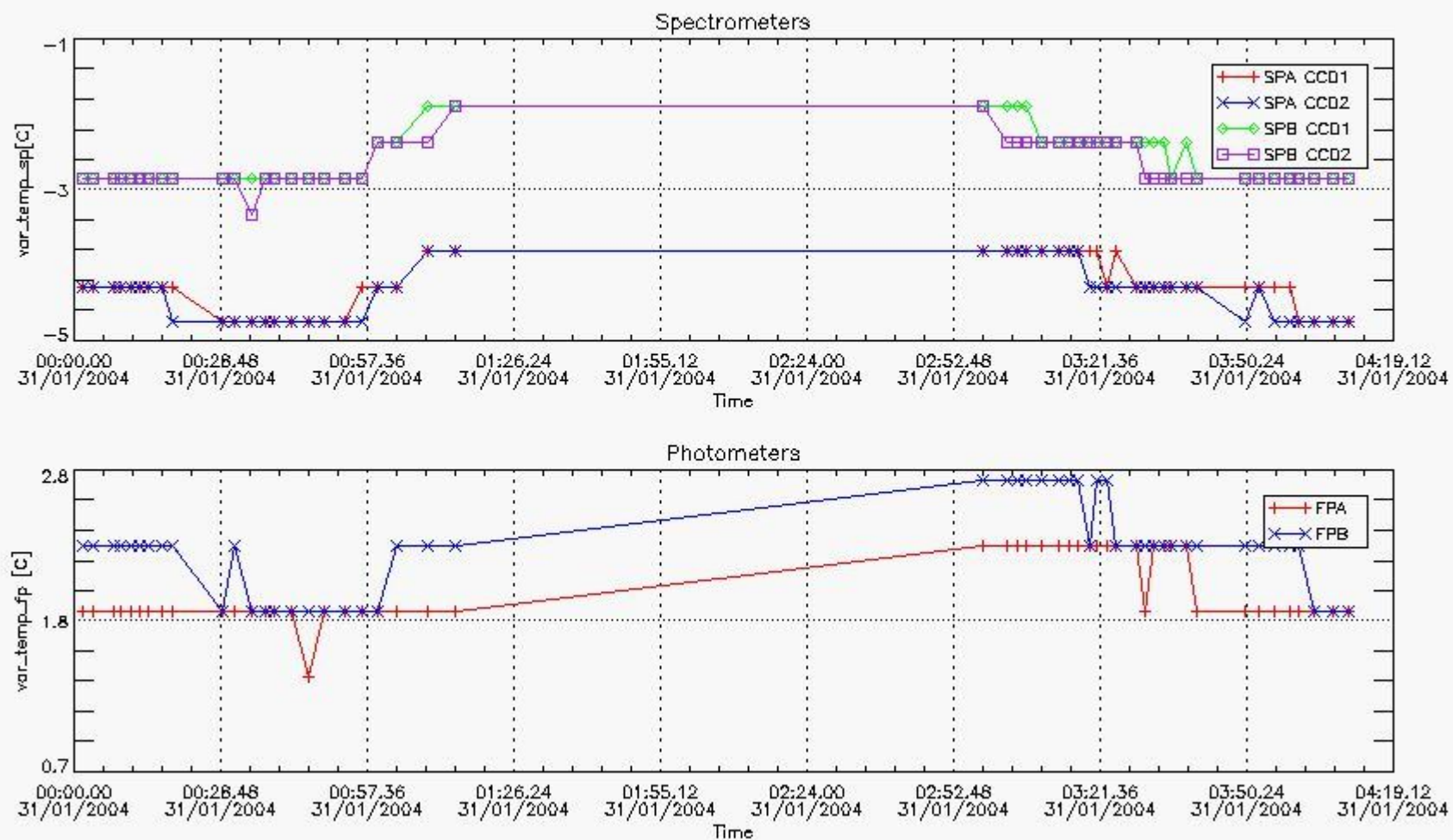
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040131_000148_000000462023_00460_10033_0003.N1	31-JAN-2004 00:01:48	Dark	45.500	1	9Alp CMa	-1.4400	11000.	91	10033	No
GOM_TRA_1PNPDE20040131_000333_000000662023_00460_10033_0004.N1	31-JAN-2004 00:03:33	Dark	65.500	48	30Alp Hya	1.9770	4100.0	131	10033	No
GOM_TRA_1PNPDE20040131_000740_000000522023_00460_10033_0005.N1	31-JAN-2004 00:07:40	Dark	51.500	8	10Alp CMi	0.40000	6500.0	103	10033	No
GOM_TRA_1PNPDE20040131_000907_000000492023_00460_10033_0006.N1	31-JAN-2004 00:09:07	Bright	49.000	14	58Alp Ori	0.87000	3000.0	98	10033	No
GOM_TRA_1PNPDE20040131_001103_000000392023_00460_10033_0007.N1	31-JAN-2004 00:11:03	Bright	39.000	44	24Gam Gem	1.9280	11000.	78	10033	No
GOM_TRA_1PNPDE20040131_001252_000000412023_00460_10033_0008.N1	31-JAN-2004 00:12:52	Bright	41.000	151	13Mu Gem	2.8900	3000.0	82	10033	No
GOM_TRA_1PNPDE20040131_001424_000000422023_00460_10033_0009.N1	31-JAN-2004 00:14:24	Bright	42.000	17	78Bet Gem	1.1610	4500.0	84	10033	No
GOM_TRA_1PNPDE20040131_001710_000000382023_00460_10033_0010.N1	31-JAN-2004 00:17:10	Bright	37.500	107	37The Aur	2.6490	11000.	75	10033	No
GOM_TRA_1PNPDE20040131_001915_000000392023_00460_10033_0011.N1	31-JAN-2004 00:19:15	Bright	38.500	42	34Bet Aur	1.9000	10200.	77	10033	No
GOM_TRA_1PNPDE20040131_002901_000000472023_00460_10033_0012.N1	31-JAN-2004 00:29:01	Bright	47.000	82	48Bet UMa	2.3650	10600.	94	10033	No
GOM_TRA_1PNPDE20040131_003135_000000352023_00460_10033_0013.N1	31-JAN-2004 00:31:35	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	10033	No
GOM_TRA_1PNPDE20040131_003446_000000402023_00460_10033_0014.N1	31-JAN-2004 00:34:46	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	10033	No
GOM_TRA_1PNPDE20040131_003733_000000392023_00460_10033_0015.N1	31-JAN-2004 00:37:33	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	10033	No
GOM_TRA_1PNPDE20040131_003926_000000432023_00460_10033_0016.N1	31-JAN-2004 00:39:26	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	10033	No
GOM_TRA_1PNPDE20040131_004234_000000372023_00460_10033_0017.N1	31-JAN-2004 00:42:34	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	10033	No
GOM_TRA_1PNPDE20040131_004608_000000392023_00460_10033_0018.N1	31-JAN-2004 00:46:08	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	10033	No
GOM_TRA_1PNPDE20040131_004910_000000442023_00460_10033_0019.N1	31-JAN-2004 00:49:10	Bright	44.000	133	40Zet Her	2.8070	6000.0	88	10033	No
GOM_TRA_1PNPDE20040131_005307_000000932023_00460_10033_0020.N1	31-JAN-2004 00:53:07	Bright	93.000	83		2.3780	11000.	186	10033	No
GOM_TRA_1PNPDE20040131_005626_000000532023_00460_10033_0021.N1	31-JAN-2004 00:56:26	Bright	53.000	126	60Bet Oph	2.7700	4250.0	106	10033	No
GOM_TRA_1PNPDE20040131_005943_000000712023_00460_10033_0022.N1	31-JAN-2004 00:59:43	Dark	70.500	102	24Alp Ser	2.6000	4250.0	141	10033	No
GOM_TRA_1PNPDE20040131_010317_000002552023_00460_10033_0023.N1	31-JAN-2004 01:03:17	Dark	255.00	3	16Alp Boo	-0.050000	4250.0	510	10033	No
GOM_TRA_1PNPDE20040131_010926_000000442023_00460_10033_0024.N1	31-JAN-2004 01:09:26	Dark	43.500	40	The Sco	1.8590	7100.0	87	10033	No
GOM_TRA_1PNPDE20040131_011501_000000462023_00461_10034_0025.N1	31-JAN-2004 01:15:01	Dark	46.000	109	Bet Lup	2.6770	26000.	92	10034	No
GOM_TRA_1PNPDE20040131_025843_000000432023_00462_10035_0000.N1	31-JAN-2004 02:58:43	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	10035	No
GOM_TRA_1PNPDE20040131_030319_000000412023_00462_10035_0001.N1	31-JAN-2004 03:03:19	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	10035	No
GOM_TRA_1PNPDE20040131_030514_000000472023_00462_10035_0002.N1	31-JAN-2004 03:05:14	Dark	47.000	99	Del Cen	2.5750	26000.	94	10035	No
GOM_TRA_1PNPDE20040131_030656_000000442023_00462_10035_0003.N1	31-JAN-2004 03:06:56	Dark	43.500	29	Bet Car	1.6720	10200.	87	10035	No
GOM_TRA_1PNPDE20040131_031010_000000402023_00462_10035_0004.N1	31-JAN-2004 03:10:10	Dark	40.000	41	Eps Car	1.8600	4100.0	80	10035	No
GOM_TRA_1PNPDE20040131_031333_000000442023_00462_10035_0005.N1	31-JAN-2004 03:13:33	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	10035	No
GOM_TRA_1PNPDE20040131_031539_000000412023_00462_10035_0006.N1	31-JAN-2004 03:15:39	Dark	40.500	70	Zet Pup	2.2460	39000.	81	10035	No
GOM_TRA_1PNPDE20040131_031702_000000452023_00462_10035_0007.N1	31-JAN-2004 03:17:02	Dark	44.500	117	Pi Pup	2.7060	3800.0	89	10035	No
GOM_TRA_1PNPDE20040131_031929_000000432023_00462_10035_0008.N1	31-JAN-2004 03:19:29	Dark	43.000	23	21Eps CMa	1.5020	26000.	86	10035	No
GOM_TRA_1PNPDE20040131_032051_000000402023_00462_10035_0009.N1	31-JAN-2004 03:20:51	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	10035	No
GOM_TRA_1PNPDE20040131_032301_000000502023_00462_10035_0000.N1	31-JAN-2004 03:23:01	Dark	49.500	1	9Alp CMa	-1.4400	11000.	99	10035	No
GOM_TRA_1PNPDE20040131_032445_000000622023_00462_10035_0001.N1	31-JAN-2004 03:24:45	Dark	62.000	48	30Alp Hya	1.9770	4100.0	124	10035	No
GOM_TRA_1PNPDE20040131_032851_000000542023_00462_10035_0002.N1	31-JAN-2004 03:28:51	Dark	54.000	8	10Alp CMi	0.40000	6500.0	108	10035	No
GOM_TRA_1PNPDE20040131_033019_000000472023_00462_10035_0003.N1	31-JAN-2004 03:30:19	Bright	47.000	14	58Alp Ori	0.87000	3000.0	94	10035	No
GOM_TRA_1PNPDE20040131_033215_000000392023_00462_10035_0004.N1	31-JAN-2004 03:32:15	Bright	39.000	44	24Gam Gem	1.9280	11000.	78	10035	No
GOM_TRA_1PNPDE20040131_033405_000000372023_00462_10035_0005.N1	31-JAN-2004 03:34:05	Bright	36.500	151	13Mu Gem	2.8900	3000.0	73	10035	No
GOM_TRA_1PNPDE20040131_033535_000000442023_00462_10035_0006.N1	31-JAN-2004 03:35:35	Bright	43.500	17	78Bet Gem	1.1610	4500.0	87	10035	No
GOM_TRA_1PNPDE20040131_033822_000000362023_00462_10035_0007.N1	31-JAN-2004 03:38:22	Bright	35.500	107	37The Aur	2.6490	11000.	71	10035	No
GOM_TRA_1PNPDE20040131_034027_000000402023_00462_10035_0008.N1	31-JAN-2004 03:40:27	Bright	40.000	42	34Bet Aur	1.9000	10200.	80	10035	No
GOM_TRA_1PNPDE20040131_035011_000000492023_00462_10035_0009.N1	31-JAN-2004 03:50:11	Bright	49.000	82	48Bet UMa	2.3650	10600.	98	10035	No
GOM_TRA_1PNPDE20040131_035246_000000362023_00462_10035_0010.N1	31-JAN-2004 03:52:46	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	10035	No
GOM_TRA_1PNPDE20040131_035556_000000432023_00462_10035_0011.N1	31-JAN-2004 03:55:56	Bright	43.000	60	7Bet UMi	2.0810	3950.0	86	10035	No
GOM_TRA_1PNPDE20040131_035845_000000382023_00462_10035_0012.N1	31-JAN-2004 03:58:45	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	10035	No
GOM_TRA_1PNPDE20040131_040038_000000432023_00462_10035_0013.N1	31-JAN-2004 04:00:38	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	10035	No
GOM_TRA_1PNPDE20040131_040345_000000382023_00462_10035_0014.N1	31-JAN-2004 04:03:45	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	10035	No
GOM_TRA_1PNPDE20040131_040720_000000392023_00462_10035_0015.N1	31-JAN-2004 04:07:20	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	10035	No
GOM_TRA_1PNPDE20040131_041022_000000452023_00462_10035_0016.N1	31-JAN-2004 04:10:22	Bright	44.500	133	40Zet Her	2.8070	6000.0	89	10035	No

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



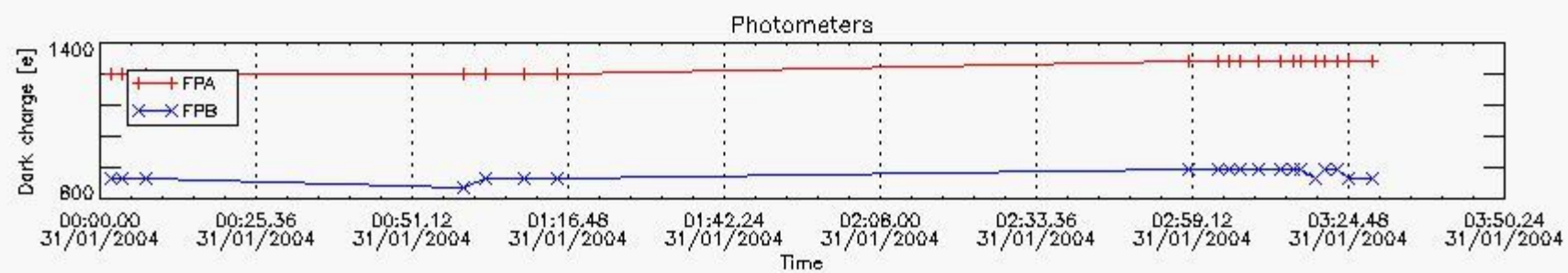
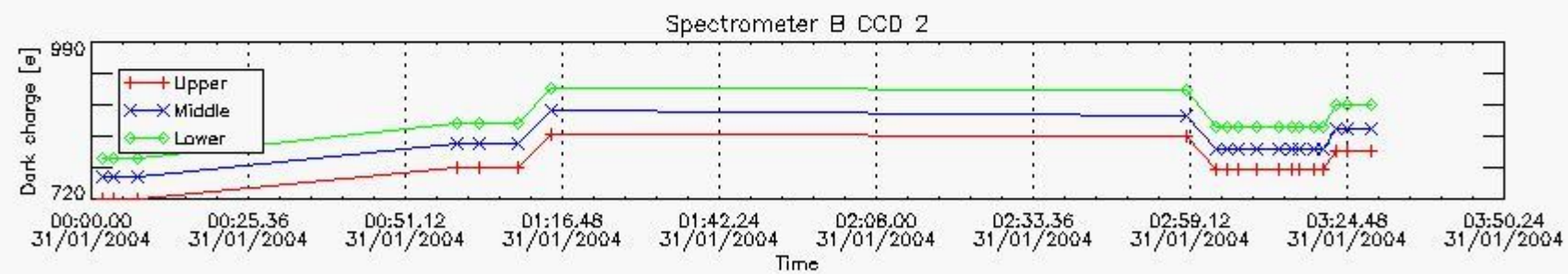
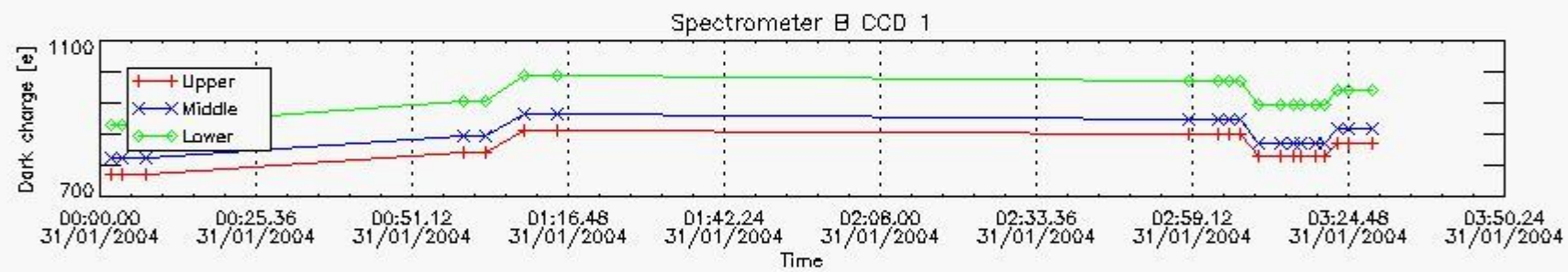
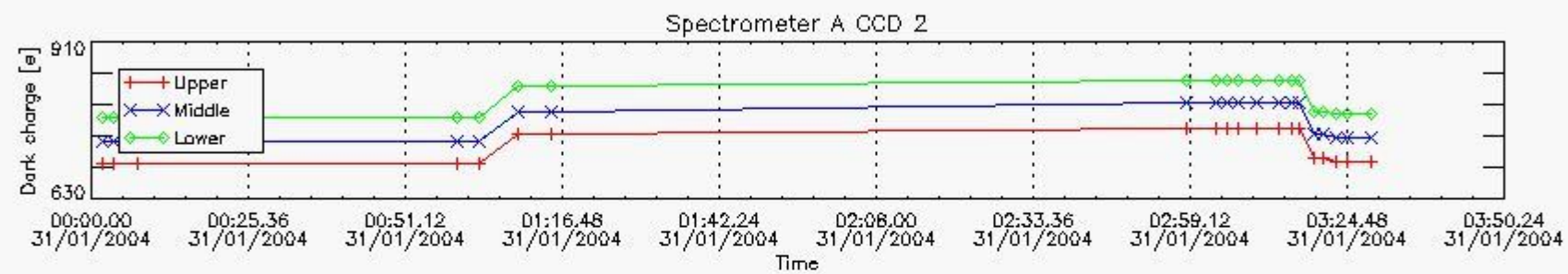
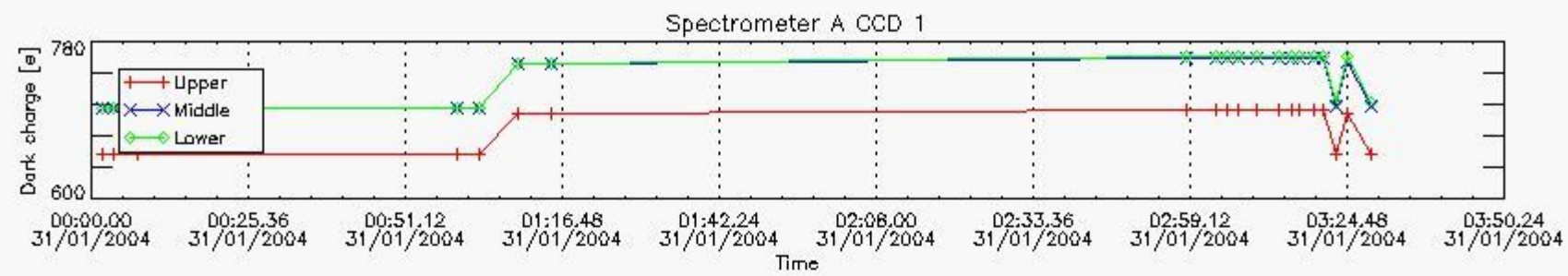
4. Overview of dark signal processing per product

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



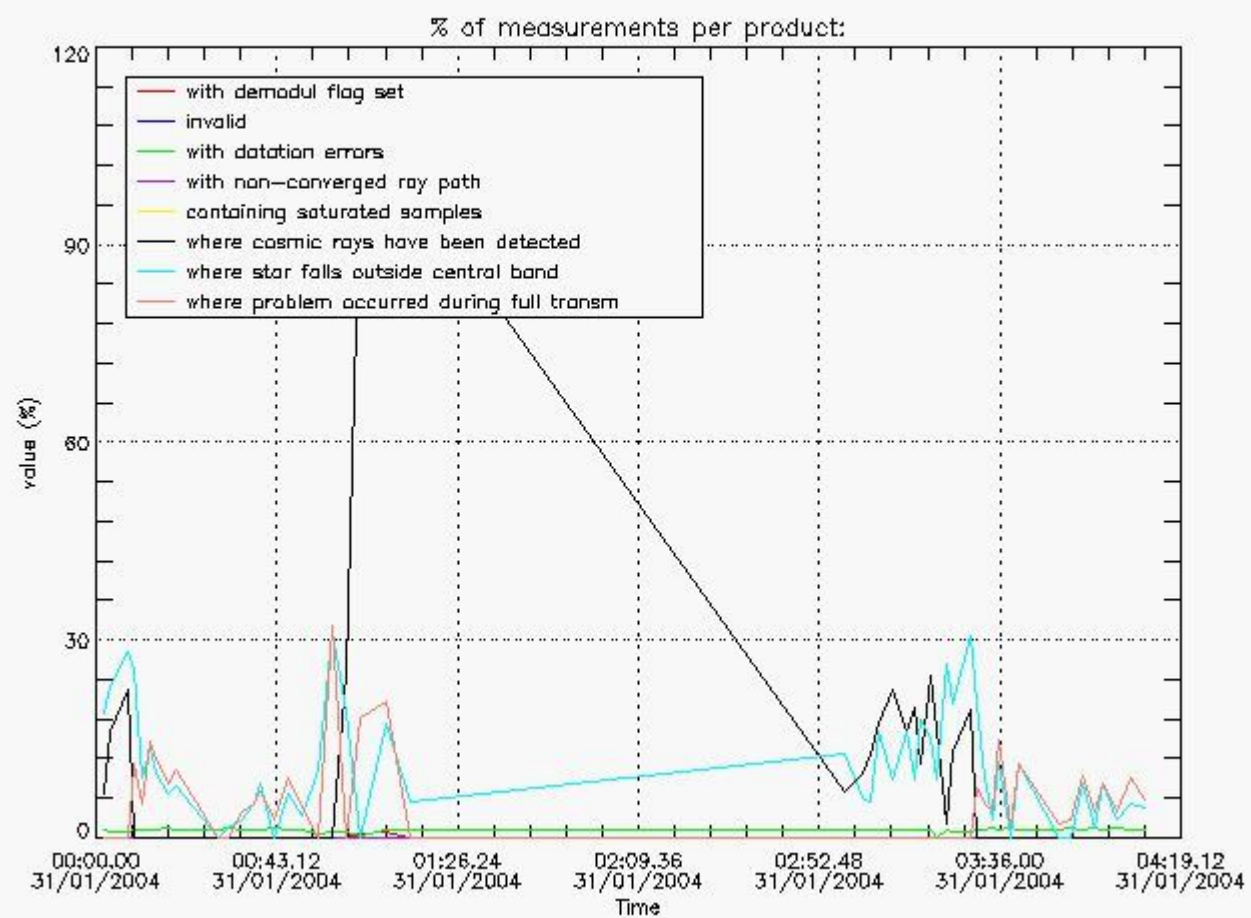
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.0000 %
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



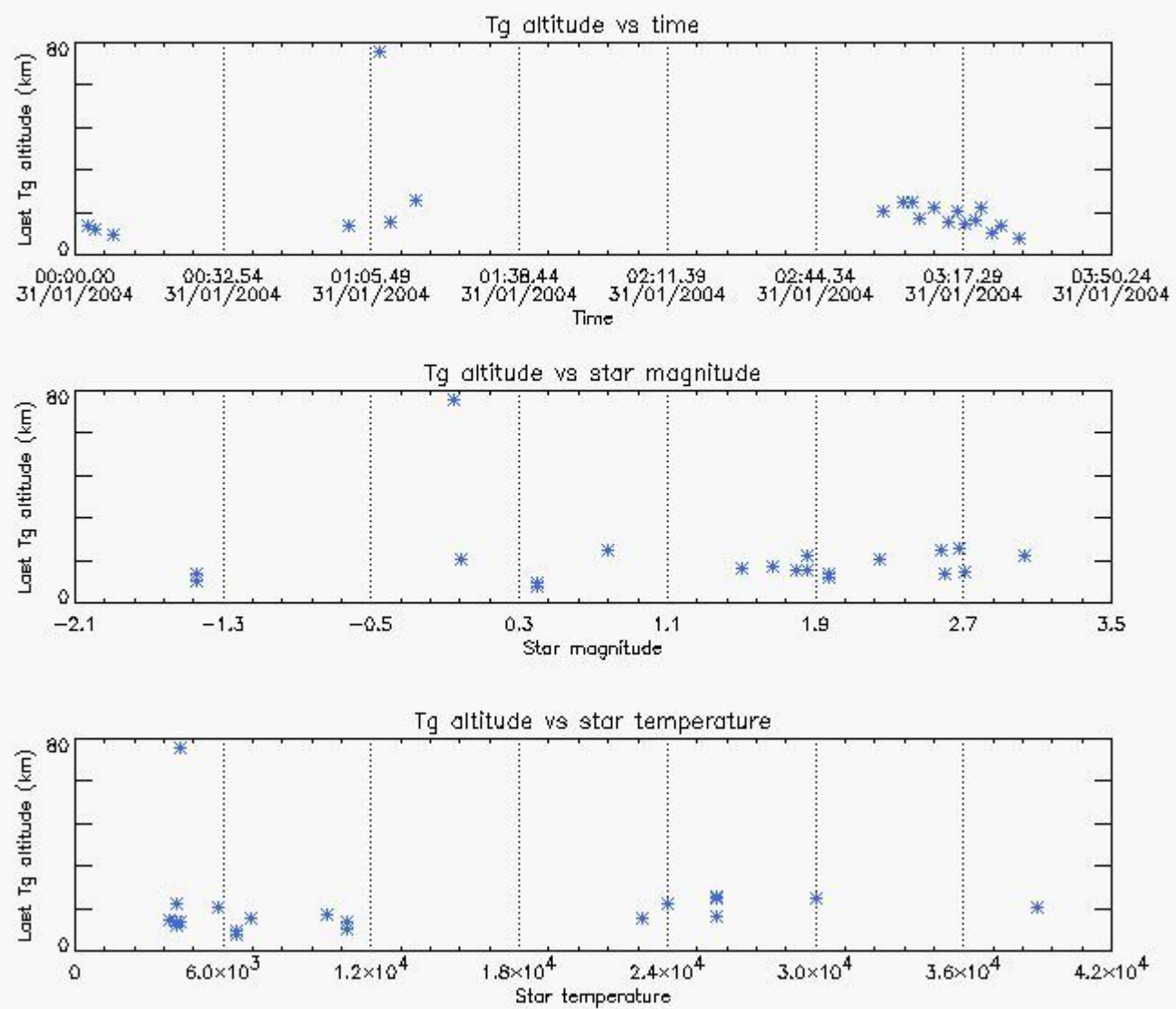
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	16.599	19.315
St. deviation:	14.743	5.0861
Maximum:	76.499	28.335
Minimum:	6.1748	5.8729
Number of data:	20.000	30.000

6.2 Plot for DARK limb products

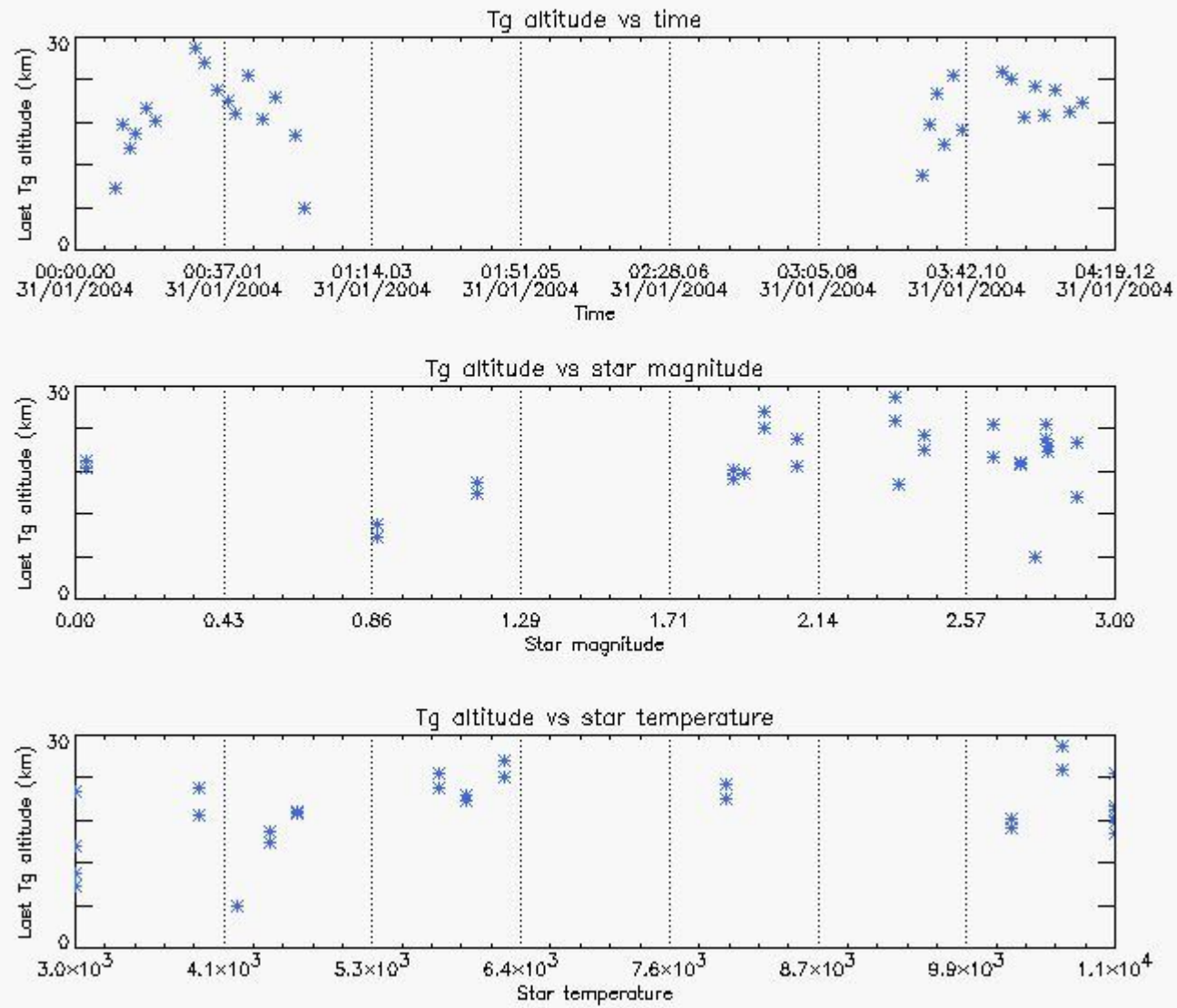
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



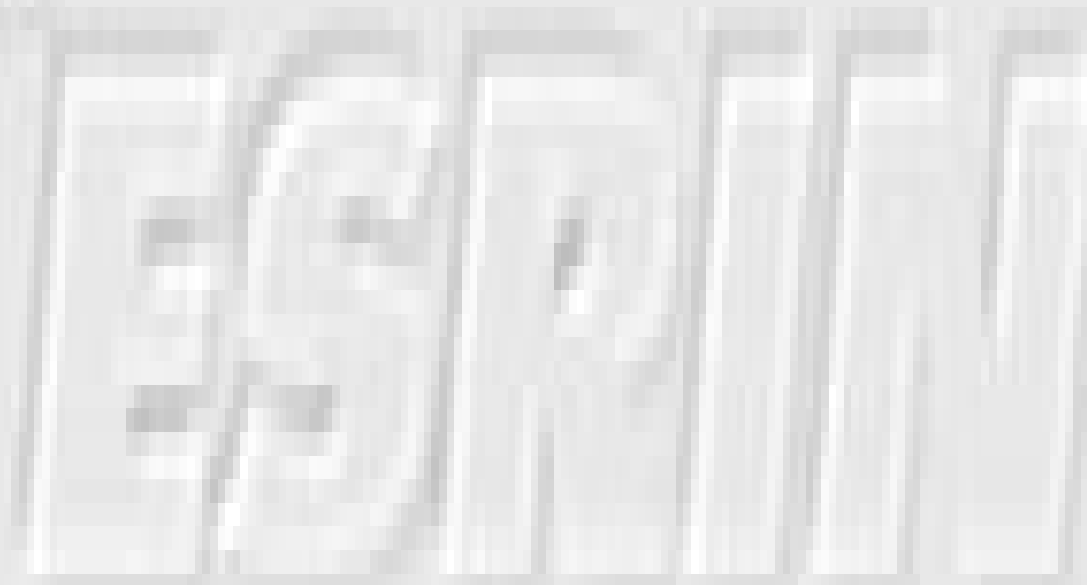
Tangent altitude at which the star is lost



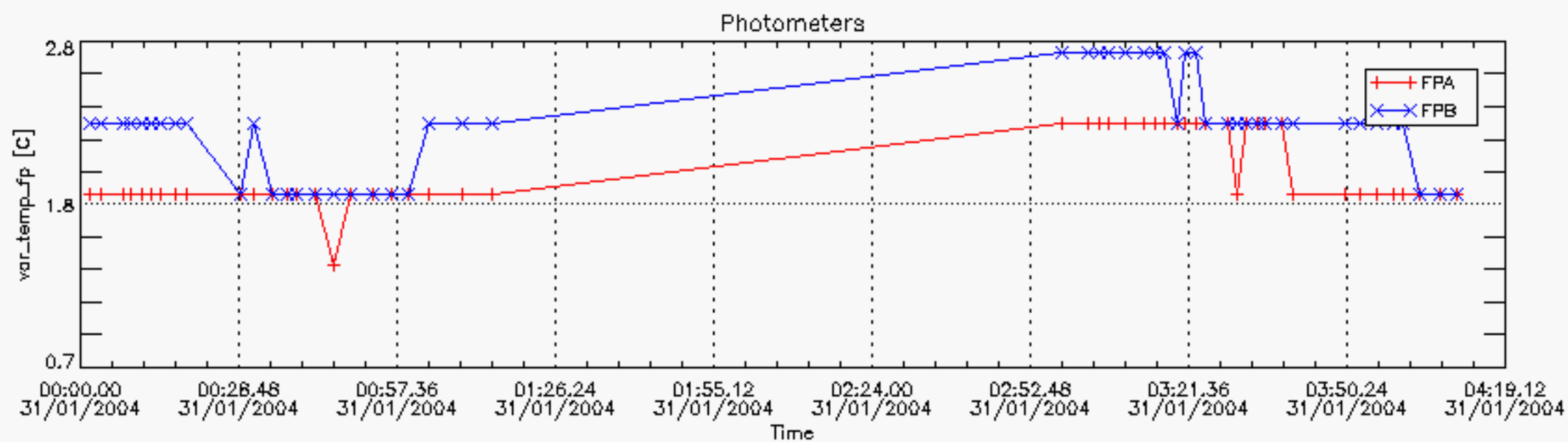
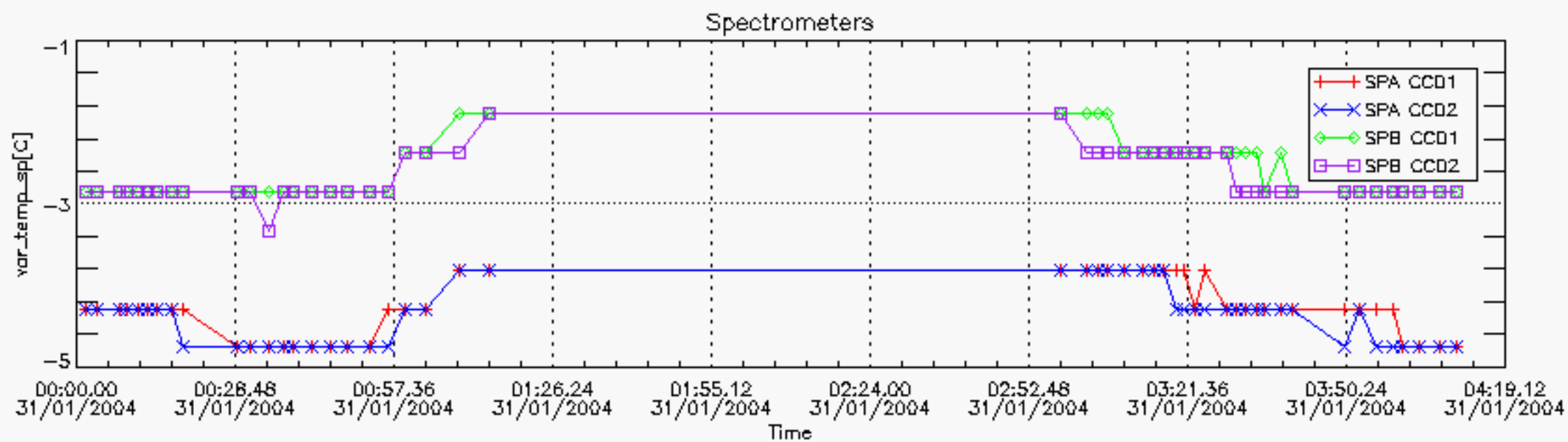
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

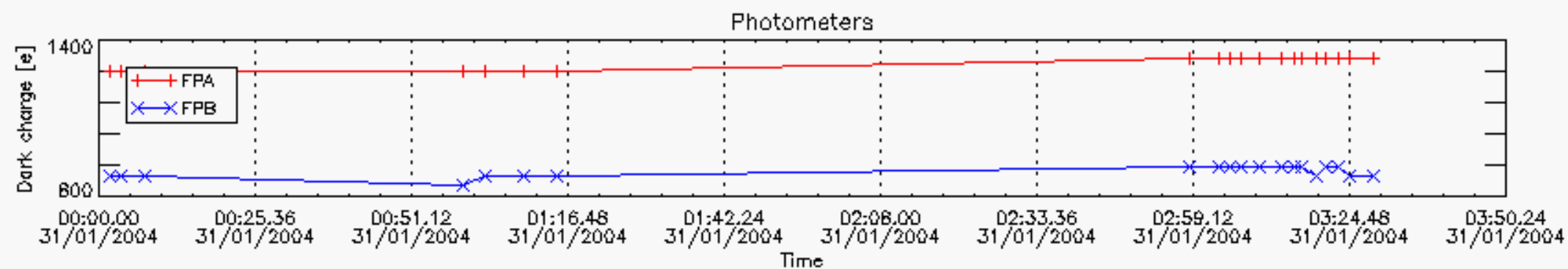
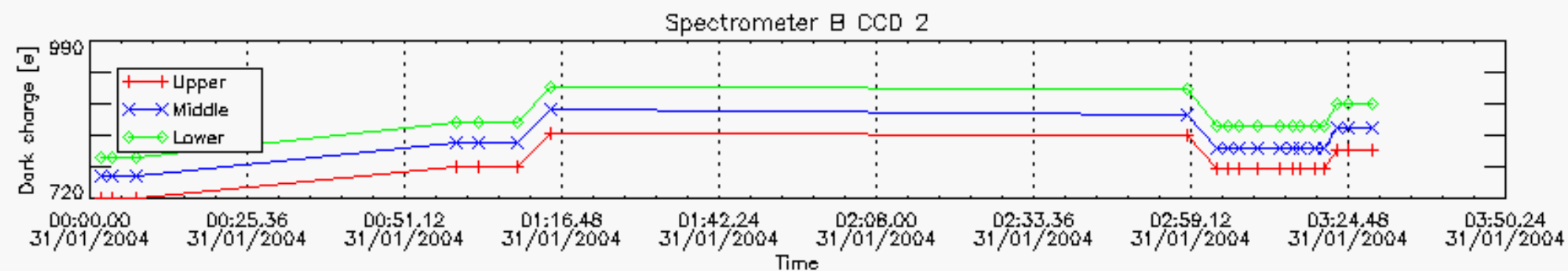
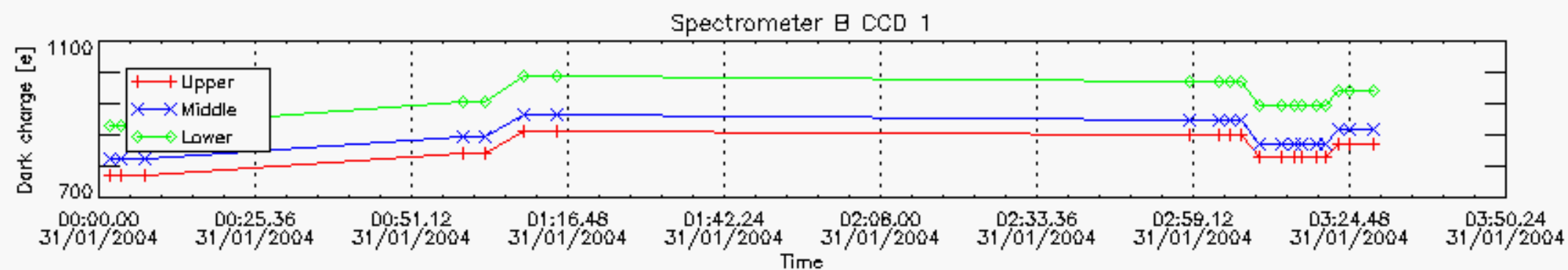
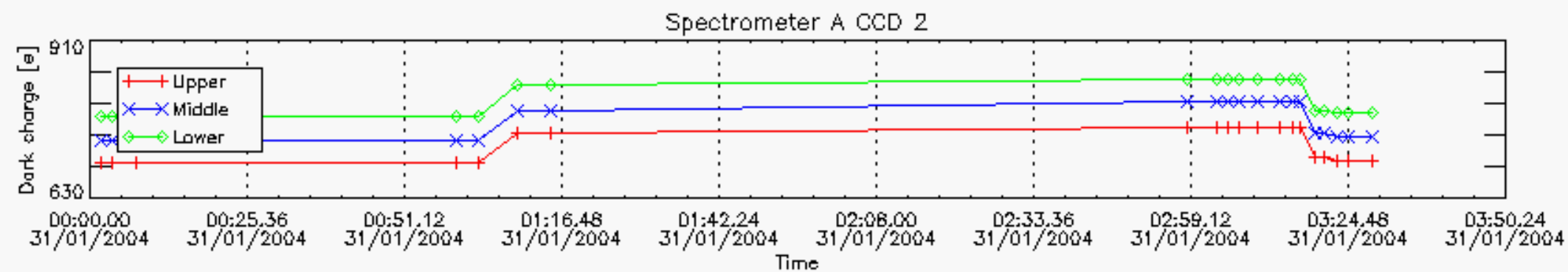
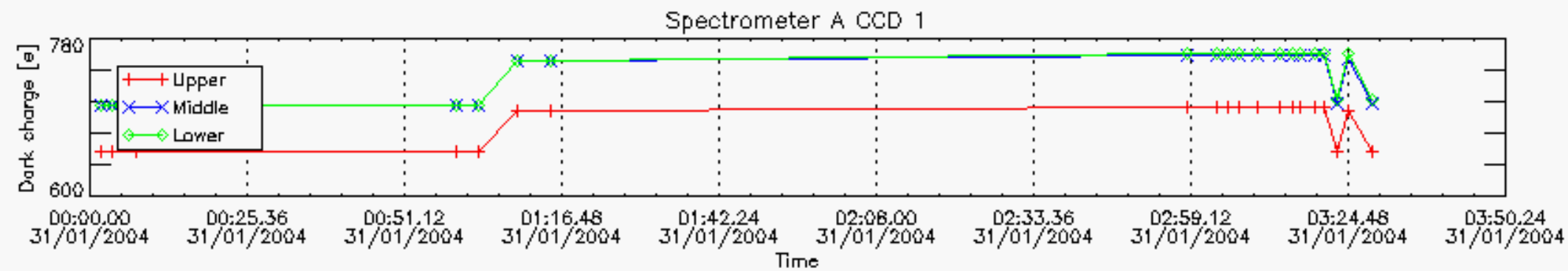
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

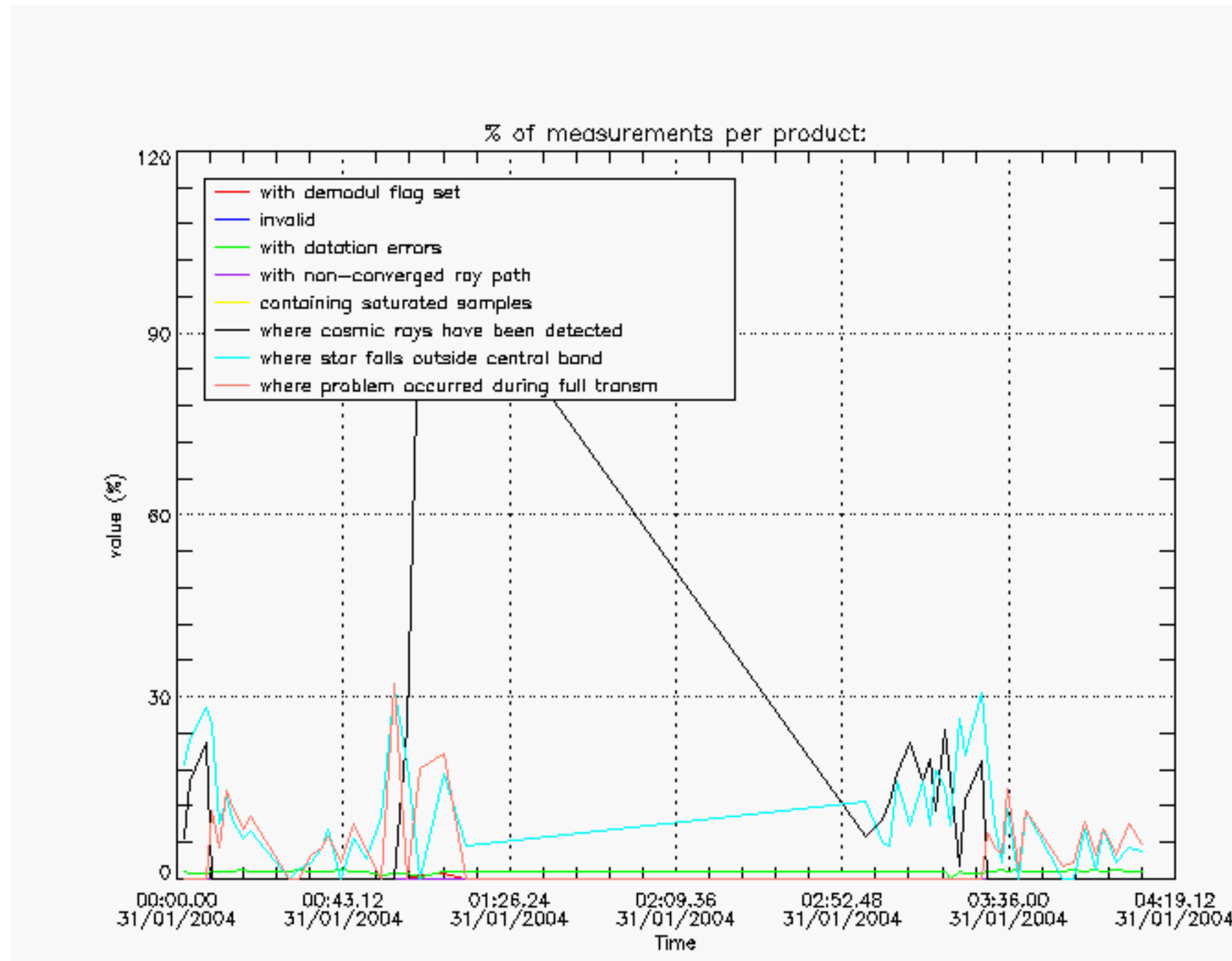
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.6	1447.4	1460.6	1446.0
St. deviation:	4.2719	5.6668	5.7372	7.3034
Maximum:	1569.0	1487.0	1502.0	1493.0
Minimum:	1453.0	1426.0	1430.0	1421.0
Number of data:	29950.	29950.	33300.	33300.



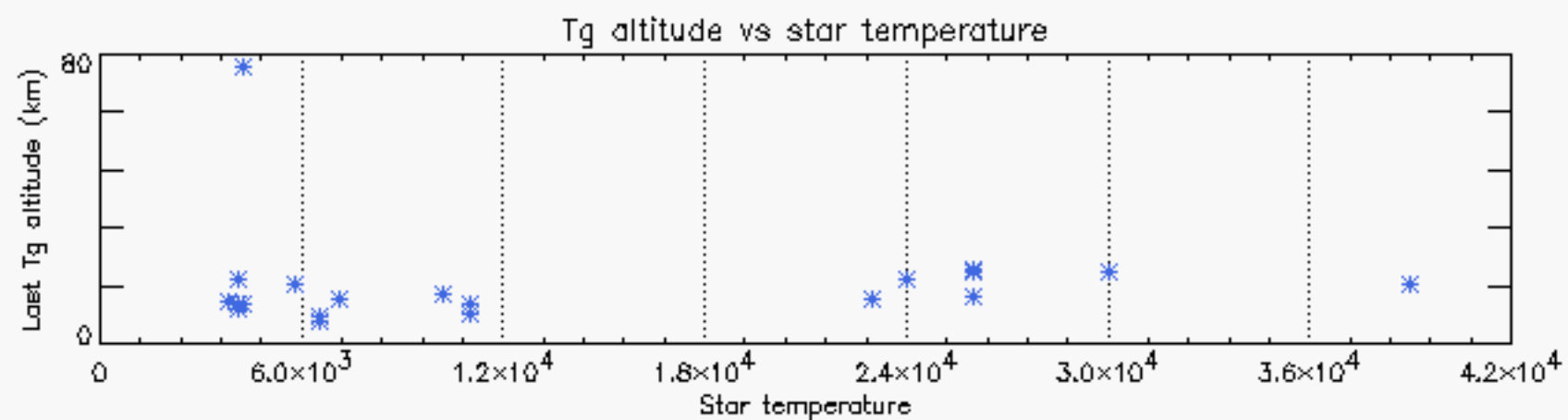
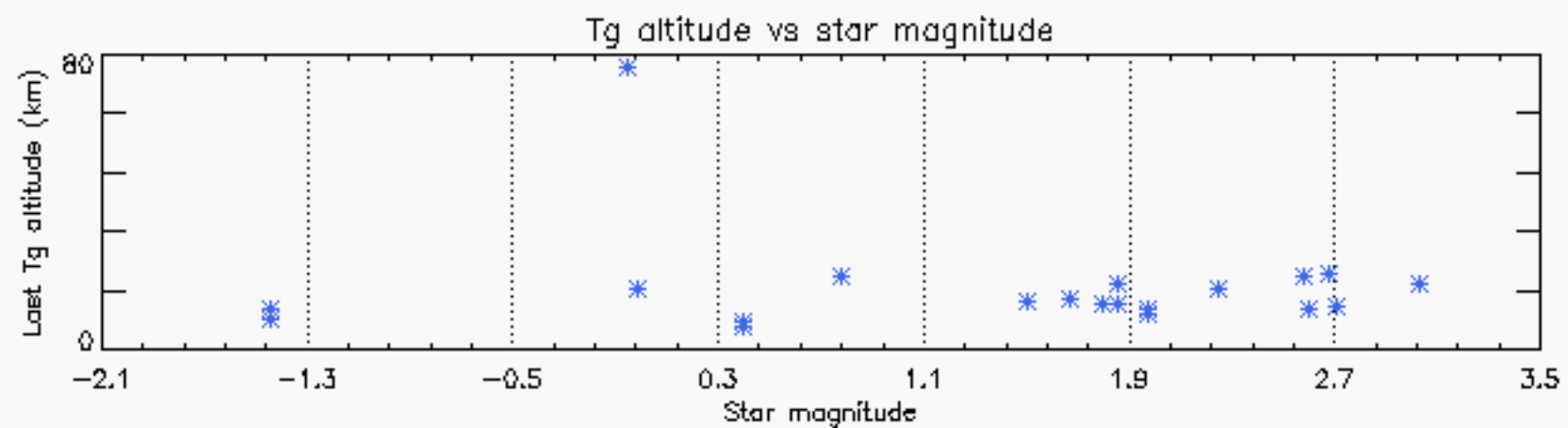
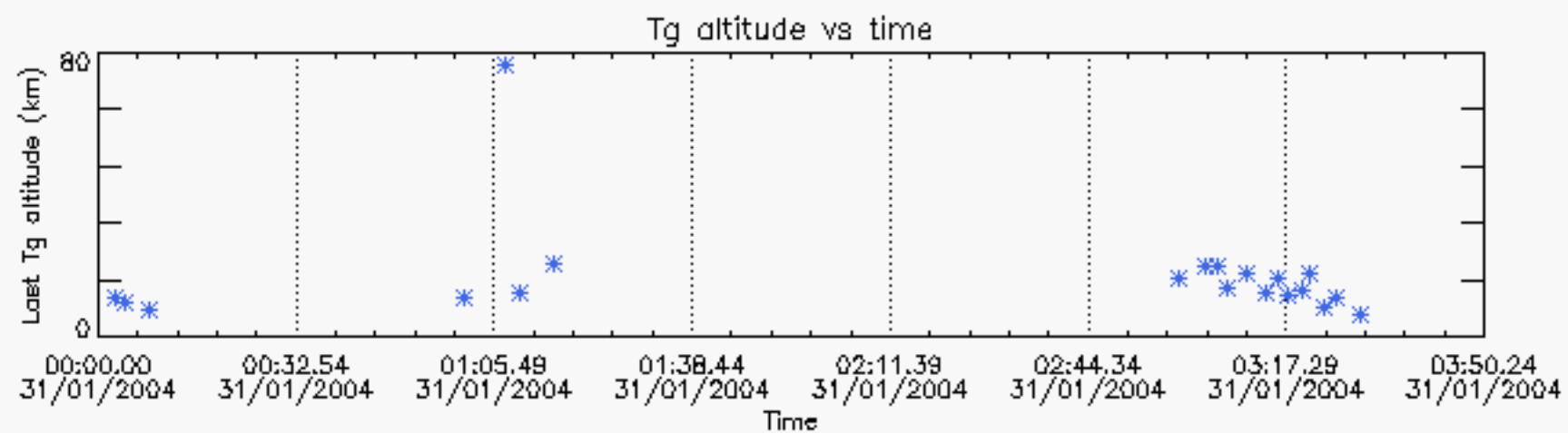




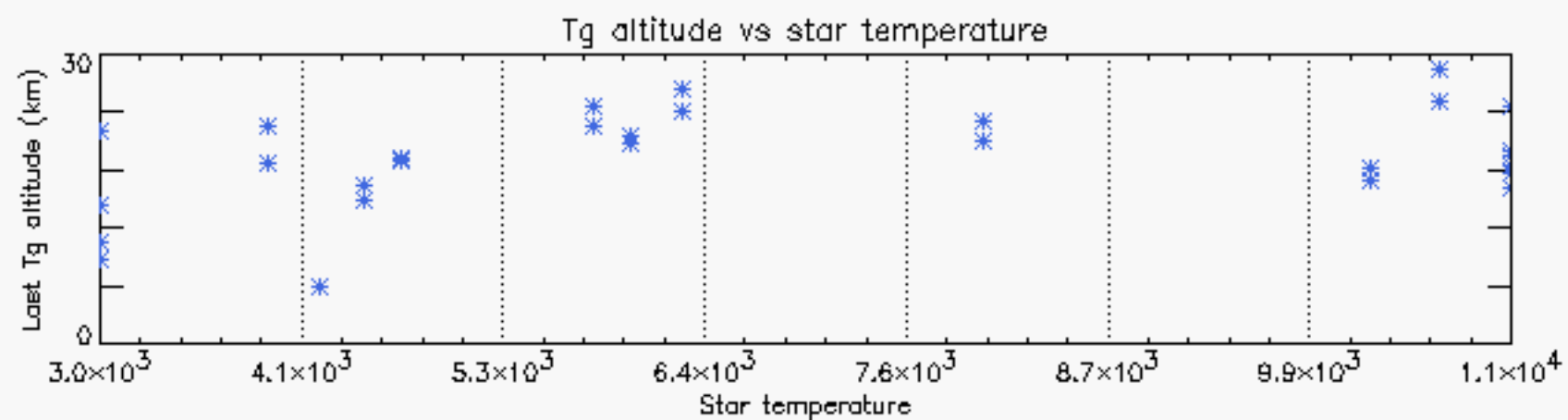
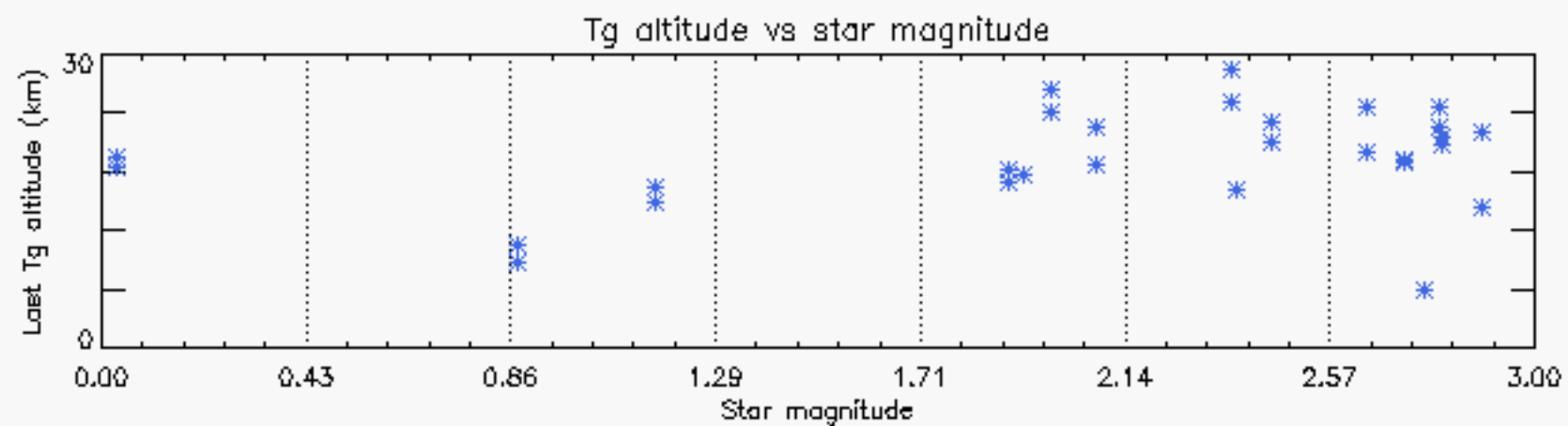
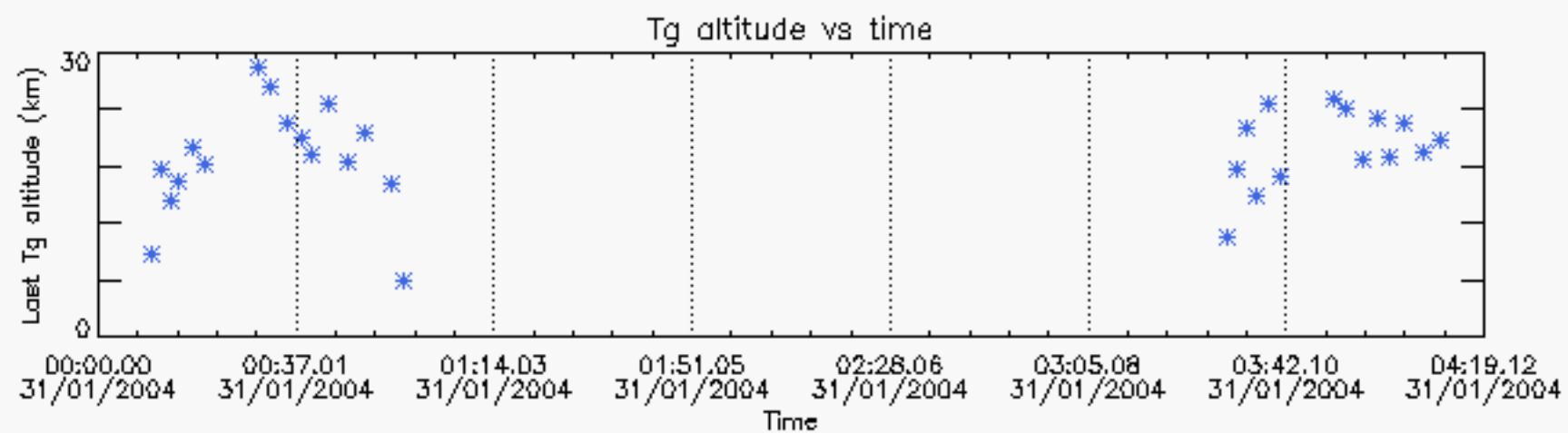




Tangent altitude at which the star is lost



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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24;	-345.5;	07-JAN-2004	08:46:22;	Dark	;	79.5;	15;	67Alp Vir	;	0.98;	28000;occ;	159;	0;	9694
25;	-205.3;	07-JAN-2004	08:48:42;	Dark	;	47.0;	54;	5The Cen	;	2.06;	4500;occ;	94;	0;	9694
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26; 32.0; 08-JAN-2004 08:21:03; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0; 9709
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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
4;	-4670.1;	08-JAN-2004	18:46:52;	Dark	;	47.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	94;	0;	9715
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7;	-4253.0;	08-JAN-2004	18:53:49;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;	occ;	104;	0;	9715
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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
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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
31;	-140.9;	08-JAN-2004	20:02:21;	Dark	;	44.0;	78;	Alp Lup	;	2.30;	28000;	occ;	88;	0;	9715
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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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
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
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26; 318.1; 09-JAN-2004 12:55:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9726
27; 487.7; 09-JAN-2004 12:58:49; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9726
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32; 1098.7; 09-JAN-2004 13:09:00; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0; 9726
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31; 689.3; 09-JAN-2004 14:42:46; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0; 9727
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33; 1002.3; 09-JAN-2004 14:47:59; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0; 9727

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```


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 32; 39.4; 09-JAN-2004 21:14:20; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0; 9731
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```

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```

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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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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
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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
36;	1217.7;	11-JAN-2004	12:07:44;	Dark	;	46.0;	117;	Pi Pup	;	2.71;	3800;occ;	92;	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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3;	-4573.6;	11-JAN-2004	17:13:37;	Dark	;	41.5;	179;	240mi2CMA	;	3.03;	24000;occ;	83;	0;	9757
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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
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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
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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
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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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13; 608.5; 14-JAN-2004 07:01:31; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0; 9794
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13; 721.6; 14-JAN-2004 08:44:00; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0; 9795
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15; 1018.7; 14-JAN-2004 08:48:57; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0; 9795
16; 1127.3; 14-JAN-2004 08:50:46; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0; 9795
17; 1229.4; 14-JAN-2004 08:52:28; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0; 9795
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7; -3542.4; 14-JAN-2004 09:13:32; Bright; 38.5; 114; 3Iot Aur ; 2.69; 4600;occ; 77; 0; 9795
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36; 805.2; 15-JAN-2004 21:38:34; Dark ; 47.0; 41; Eps Car ; 1.86; 4100;occ; 94; 0; 9817
37; 1022.2; 15-JAN-2004 21:42:11; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0; 9817
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29; 617.7; 16-JAN-2004 07:39:02; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0; 9823
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32; 1023.6; 16-JAN-2004 07:45:48; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0; 9823
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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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```

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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
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26; 631.1; 19-JAN-2004 09:25:35; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0; 9867
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```

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```

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9;	-3846.9;	27-JAN-2004	19:03:25;	Bright;		40.0;	44;	24Gam	Gem	;	1.93;	11000;occ;	80;	0;	9987
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11;	-3630.6;	27-JAN-2004	19:07:01;	Bright;		44.5;	17;	78Bet	Gem	;	1.16;	4500;occ;	89;	0;	9987
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13;	-3357.4;	27-JAN-2004	19:11:34;	Bright;		39.5;	42;	34Bet	Aur	;	1.90;	10200;occ;	79;	0;	9987
14;	-2705.3;	27-JAN-2004	19:22:26;	Bright;		48.0;	36;	50Alp	UMa	;	1.80;	6300;occ;	96;	0;	9987
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18;	-2131.9;	27-JAN-2004	19:32:00;	Bright;		43.0;	119;	14Eta	Dra	;	2.73;	4700;occ;	86;	0;	9987
19;	-1951.5;	27-JAN-2004	19:35:00;	Bright;		38.5;	130;	23Bet	Dra	;	2.80;	5800;occ;	77;	0;	9987
20;	-1743.1;	27-JAN-2004	19:38:29;	Bright;		39.0;	5;	3Alp	Lyr	;	0.03;	11000;occ;	78;	0;	9987
21;	-1560.5;	27-JAN-2004	19:41:31;	Bright;		42.5;	133;	40Zet	Her	;	2.81;	6000;occ;	85;	0;	9987
22;	-1344.0;	27-JAN-2004	19:45:08;	Bright;		81.5;	83;			;	2.38;	11000;occ;	163;	0;	9987
23;	-1134.4;	27-JAN-2004	19:48:37;	Bright;		39.5;	126;	60Bet	Oph	;	2.77;	4250;occ;	79;	0;	9987
24;	-890.8;	27-JAN-2004	19:52:41;	Dark	;	255.0;	3;	16Alp	Boo	;	-0.05;	4250;occ;	510;	0;	9987
25;	-509.5;	27-JAN-2004	19:59:02;	Dark	;	49.5;	16;	21Alp	Sco	;	1.02;	3000;occ;	99;	0;	9987
26;	-428.7;	27-JAN-2004	20:00:23;	Dark	;	50.0;	75;	26Eps	Sco	;	2.29;	4250;occ;	100;	0;	9987
27;	-350.4;	27-JAN-2004	20:01:41;	Dark	;	41.0;	40;	The	Sco	;	1.86;	7100;occ;	82;	0;	9987
28;	-237.7;	27-JAN-2004	20:03:34;	Dark	;	41.0;	147;	Alp	Ara	;	2.88;	26000;occ;	82;	0;	9987
29;	-140.8;	27-JAN-2004	20:05:11;	Dark	;	39.5;	141;	Bet	Ara	;	2.84;	4600;occ;	79;	0;	9987
30;	-43.9;	27-JAN-2004	20:06:48;	Dark	;	45.0;	109;	Bet	Lup	;	2.68;	26000;occ;	90;	0;	9987
31;	42.0;	27-JAN-2004	20:08:14;	Dark	;	47.0;	78;	Alp	Lup	;	2.30;	28000;occ;	94;	0;	9988
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35;	535.9;	27-JAN-2004	20:16:28;	Dark	;	47.5;	99;	Del	Cen	;	2.58;	26000;occ;	95;	0;	9988
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7;	-3632.9;	28-JAN-2004	06:51:10;	Bright;		44.5;	17;	78Bet	Gem	;	1.16;	4500;occ;	89;	0;	9994
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16;	-1742.6;	28-JAN-2004	07:22:41;	Bright;		37.0;	5;	3Alp	Lyr	;	0.03;	11000;occ;	74;	0;	9994
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26;	-37.9;	28-JAN-2004	07:51:05;	Dark	;	47.0;	109;	Bet	Lup	;	2.68;	26000;occ;	94;	0;	9994
27;	50.3;	28-JAN-2004	07:52:34;	Dark	;	48.0;	78;	Alp	Lup	;	2.30;	28000;occ;	96;	0;	9995
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