

GOMOS Daily Report 30-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	31JAN2004 06:54:20
Data source version	<Any version>
Start time of products	30-JAN-2004 (30JAN2004 00:00:00)
Stop time of products	31-JAN-2004 (31JAN2004 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

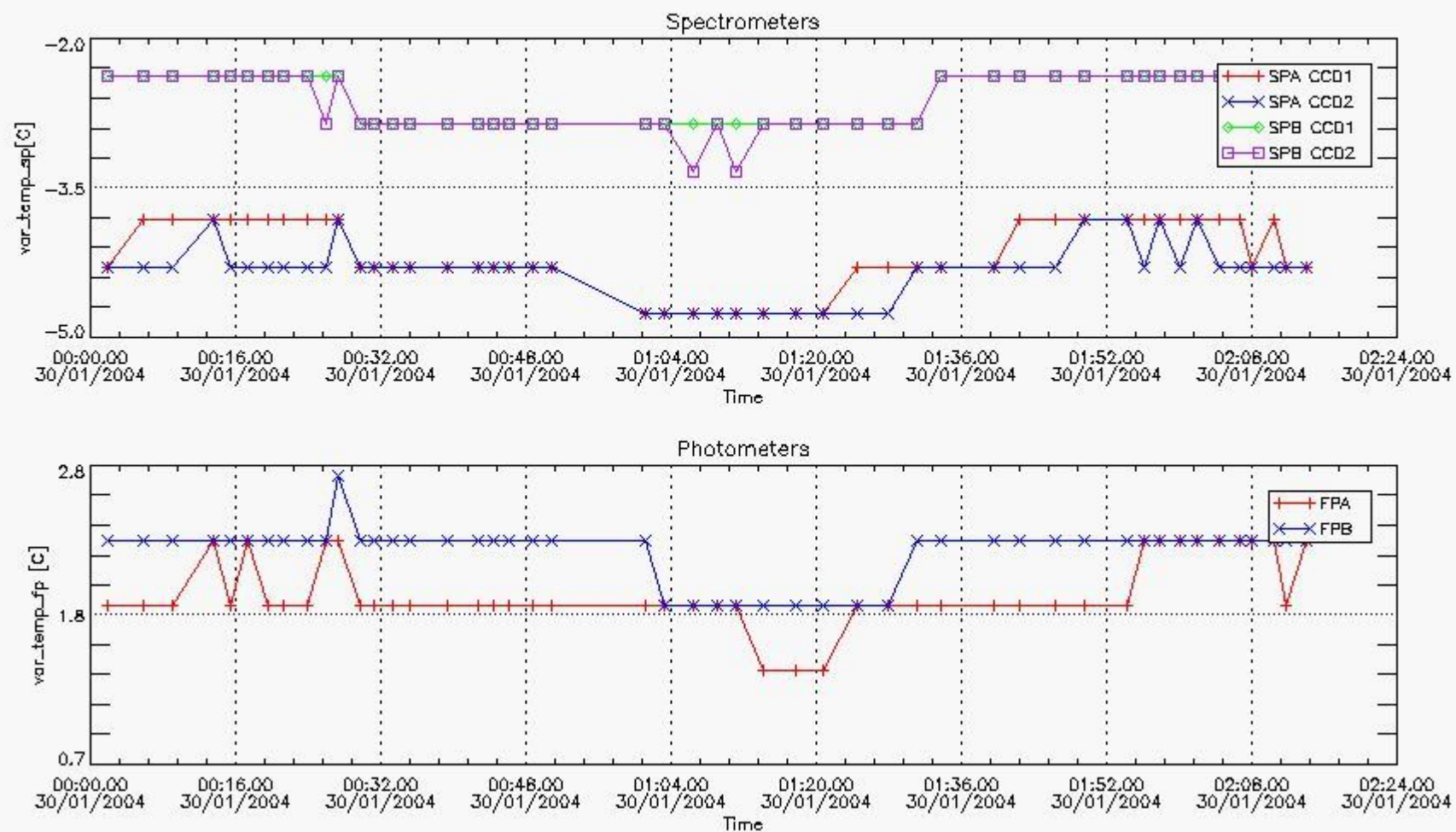
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040130_000149_000000692023_00445_10018_0024.N1	30-JAN-2004 00:01:49	Dark	69.000	122	9Alp2Lib	2.7470	9700.0	138	10018	No
GOM_TRA_1PNPDE20040130_000548_000000472023_00445_10018_0025.N1	30-JAN-2004 00:05:48	Dark	47.000	109	Bet Lup	2.6770	26000.	94	10018	No
GOM_TRA_1PNPDE20040130_000859_000000552023_00446_10019_0026.N1	30-JAN-2004 00:08:59	Dark	55.000	4	Alp1Cen	-0.010000	5800.0	110	10019	No
GOM_TRA_1PNPDE20040130_001335_000000492023_00446_10019_0027.N1	30-JAN-2004 00:13:35	Dark	48.500	12	Alp1Cru	0.77500	30000.	97	10019	No
GOM_TRA_1PNPDE20040130_001527_000000472023_00446_10019_0028.N1	30-JAN-2004 00:15:27	Dark	47.000	99	Del Cen	2.5750	26000.	94	10019	No
GOM_TRA_1PNPDE20040130_001714_000000492023_00446_10019_0029.N1	30-JAN-2004 00:17:14	Dark	48.500	29	Bet Car	1.6720	10200.	97	10019	No
GOM_TRA_1PNPDE20040130_001934_000000422023_00446_10019_0030.N1	30-JAN-2004 00:19:34	Dark	42.000	71	lot Car	2.2460	7700.0	84	10019	No
GOM_TRA_1PNPDE20040130_002119_000000452023_00446_10019_0031.N1	30-JAN-2004 00:21:19	Dark	45.000	46	Del Vel	1.9540	10600.	90	10019	No
GOM_TRA_1PNPDE20040130_002354_000000412023_00446_10019_0032.N1	30-JAN-2004 00:23:54	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	10019	No
GOM_TRA_1PNPDE20040130_002600_000000452023_00446_10019_0033.N1	30-JAN-2004 00:26:00	Dark	45.000	70	Zet Pup	2.2460	39000.	90	10019	No
GOM_TRA_1PNPDE20040130_002722_000000482023_00446_10019_0000.N1	30-JAN-2004 00:27:22	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	10019	Yes
GOM_TRA_1PNPDE20040130_002949_000000442023_00446_10019_0001.N1	30-JAN-2004 00:29:49	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	10019	No
GOM_TRA_1PNPDE20040130_003113_000000412023_00446_10019_0002.N1	30-JAN-2004 00:31:13	Dark	40.500	179	24Omi2CMa	3.0320	24000.	81	10019	No
GOM_TRA_1PNPDE20040130_003321_000000482023_00446_10019_0003.N1	30-JAN-2004 00:33:21	Dark	48.000	1	9Alp CMa	-1.4400	11000.	96	10019	No
GOM_TRA_1PNPDE20040130_003512_000000642023_00446_10019_0004.N1	30-JAN-2004 00:35:12	Dark	64.000	48	30Alp Hya	1.9770	4100.0	128	10019	No
GOM_TRA_1PNPDE20040130_003917_000000542023_00446_10019_0005.N1	30-JAN-2004 00:39:17	Dark	54.000	8	10Alp CMI	0.40000	6500.0	108	10019	No
GOM_TRA_1PNPDE20040130_004238_000000412023_00446_10019_0006.N1	30-JAN-2004 00:42:38	Bright	40.500	44	24Gam Gem	1.9280	11000.	81	10019	No
GOM_TRA_1PNPDE20040130_004427_000000412023_00446_10019_0007.N1	30-JAN-2004 00:44:27	Bright	40.500	151	13Mu Gem	2.8900	3000.0	81	10019	No
GOM_TRA_1PNPDE20040130_004604_000000432023_00446_10019_0008.N1	30-JAN-2004 00:46:04	Bright	42.500	17	78Bet Gem	1.1610	4500.0	85	10019	No
GOM_TRA_1PNPDE20040130_004843_000000372023_00446_10019_0009.N1	30-JAN-2004 00:48:43	Bright	37.000	107	37The Aur	2.6490	11000.	74	10019	No
GOM_TRA_1PNPDE20040130_005049_000000392023_00446_10019_0010.N1	30-JAN-2004 00:50:49	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	10019	No
GOM_TRA_1PNPDE20040130_010114_000000442023_00446_10019_0011.N1	30-JAN-2004 01:01:14	Bright	43.500	36	50Alp UMa	1.8000	6300.0	87	10019	No
GOM_TRA_1PNPDE20040130_010311_000000372023_00446_10019_0012.N1	30-JAN-2004 01:03:11	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	10019	No
GOM_TRA_1PNPDE20040130_010625_000000432023_00446_10019_0013.N1	30-JAN-2004 01:06:25	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	10019	No
GOM_TRA_1PNPDE20040130_010905_000000392023_00446_10019_0014.N1	30-JAN-2004 01:09:05	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	10019	No
GOM_TRA_1PNPDE20040130_011106_000000412023_00446_10019_0015.N1	30-JAN-2004 01:11:06	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	10019	No
GOM_TRA_1PNPDE20040130_011410_000000402023_00446_10019_0016.N1	30-JAN-2004 01:14:10	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	10019	No
GOM_TRA_1PNPDE20040130_011743_000000362023_00446_10019_0017.N1	30-JAN-2004 01:17:43	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	10019	No
GOM_TRA_1PNPDE20040130_012045_000000432023_00446_10019_0018.N1	30-JAN-2004 01:20:45	Bright	42.500	133	40Zet Her	2.8070	6000.0	85	10019	No
GOM_TRA_1PNPDE20040130_012435_000000932023_00446_10019_0019.N1	30-JAN-2004 01:24:35	Bright	93.000	83		2.3780	11000.	186	10019	No
GOM_TRA_1PNPDE20040130_012759_000000382023_00446_10019_0020.N1	30-JAN-2004 01:27:59	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	10019	No
GOM_TRA_1PNPDE20040130_013109_000000652023_00446_10019_0021.N1	30-JAN-2004 01:31:09	Dark	64.500	102	24Alp Ser	2.6000	4250.0	129	10019	No
GOM_TRA_1PNPDE20040130_013340_000002552023_00446_10019_0022.N1	30-JAN-2004 01:33:40	Dark	255.00	3	16Alp Boo	-0.050000	4250.0	510	10019	No
GOM_TRA_1PNPDE20040130_013929_000000442023_00446_10019_0023.N1	30-JAN-2004 01:39:29	Dark	44.000	25	35Lam Sco	1.6200	28000.	88	10019	No
GOM_TRA_1PNPDE20040130_014228_000000692023_00446_10019_0024.N1	30-JAN-2004 01:42:28	Dark	69.000	122	9Alp2Lib	2.7470	9700.0	138	10019	No
GOM_TRA_1PNPDE20040130_014625_000000482023_00446_10019_0025.N1	30-JAN-2004 01:46:25	Dark	47.500	109	Bet Lup	2.6770	26000.	95	10019	No
GOM_TRA_1PNPDE20040130_014936_000000452023_00447_10020_0026.N1	30-JAN-2004 01:49:36	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	10020	No
GOM_TRA_1PNPDE20040130_015411_000000432023_00447_10020_0027.N1	30-JAN-2004 01:54:11	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	10020	No
GOM_TRA_1PNPDE20040130_015603_000000552023_00447_10020_0028.N1	30-JAN-2004 01:56:03	Dark	54.500	99	Del Cen	2.5750	26000.	109	10020	No
GOM_TRA_1PNPDE20040130_015752_000000402023_00447_10020_0029.N1	30-JAN-2004 01:57:52	Dark	40.000	29	Bet Car	1.6720	10200.	80	10020	No
GOM_TRA_1PNPDE20040130_020009_000000462023_00447_10020_0030.N1	30-JAN-2004 02:00:09	Dark	46.000	71	lot Car	2.2460	7700.0	92	10020	No
GOM_TRA_1PNPDE20040130_020155_000000462023_00447_10020_0031.N1	30-JAN-2004 02:01:55	Dark	46.000	46	Del Vel	1.9540	10600.	92	10020	No
GOM_TRA_1PNPDE20040130_020427_000000532023_00447_10020_0032.N1	30-JAN-2004 02:04:27	Dark	52.500	65	Lam Vel	2.2040	4400.0	105	10020	No
GOM_TRA_1PNPDE20040130_020636_000000432023_00447_10020_0033.N1	30-JAN-2004 02:06:36	Dark	42.500	70	Zet Pup	2.2460	39000.	85	10020	No
GOM_TRA_1PNPDE20040130_020758_000000482023_00447_10020_0034.N1	30-JAN-2004 02:07:58	Dark	47.500	117	Pi Pup	2.7060	3800.0	95	10020	No
GOM_TRA_1PNPDE20040130_021025_000000452023_00447_10020_0035.N1	30-JAN-2004 02:10:25	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	10020	No
GOM_TRA_1PNPDE20040130_021150_000000402023_00447_10020_0000.N1	30-JAN-2004 02:11:50	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	10020	No
GOM_TRA_1PNPDE20040130_021357_000000492023_00447_10020_0001.N1	30-JAN-2004 02:13:57	Dark	49.000	1	9Alp CMa	-1.4400	11000.	98	10020	No

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



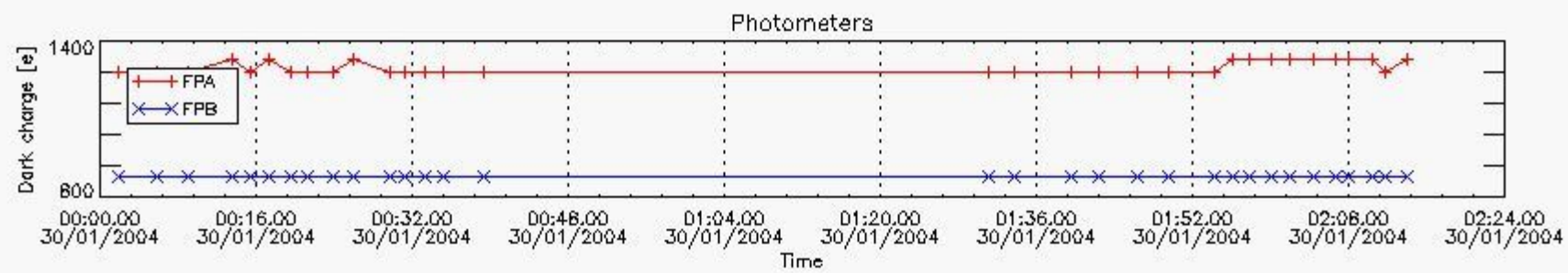
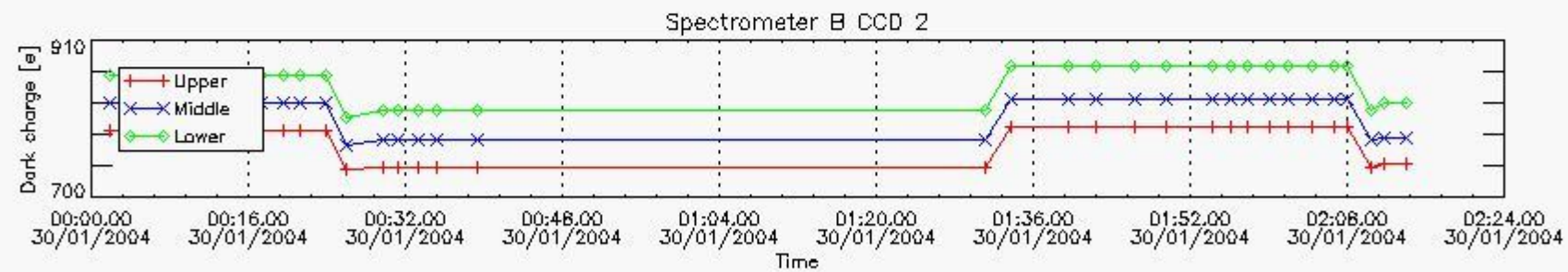
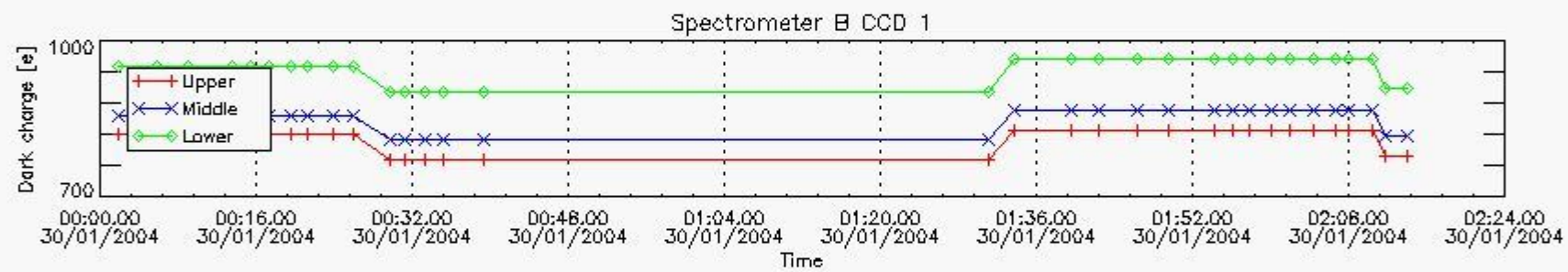
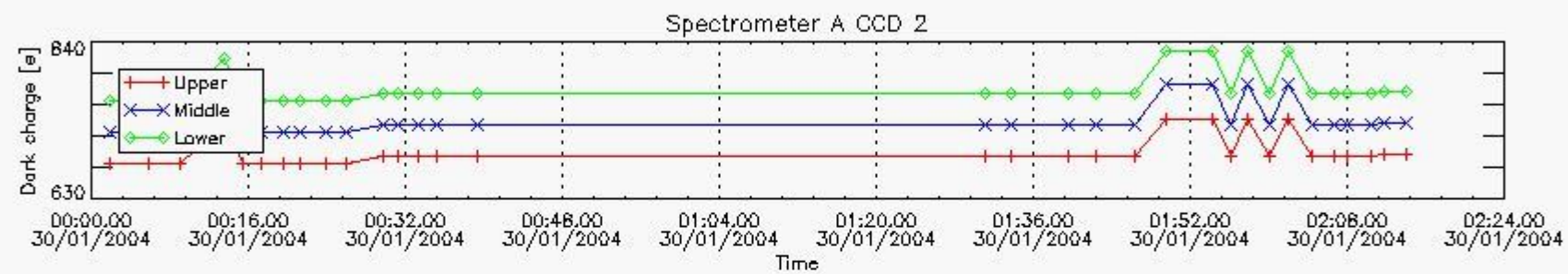
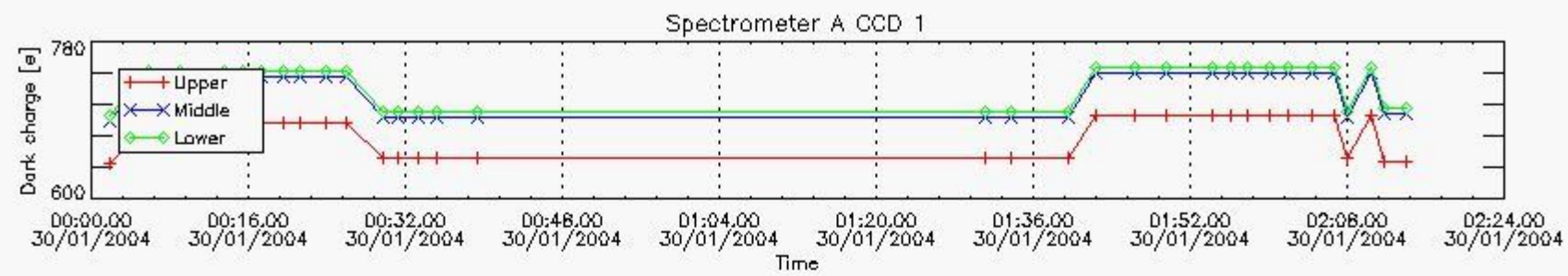
4. Overview of dark signal processing per product

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

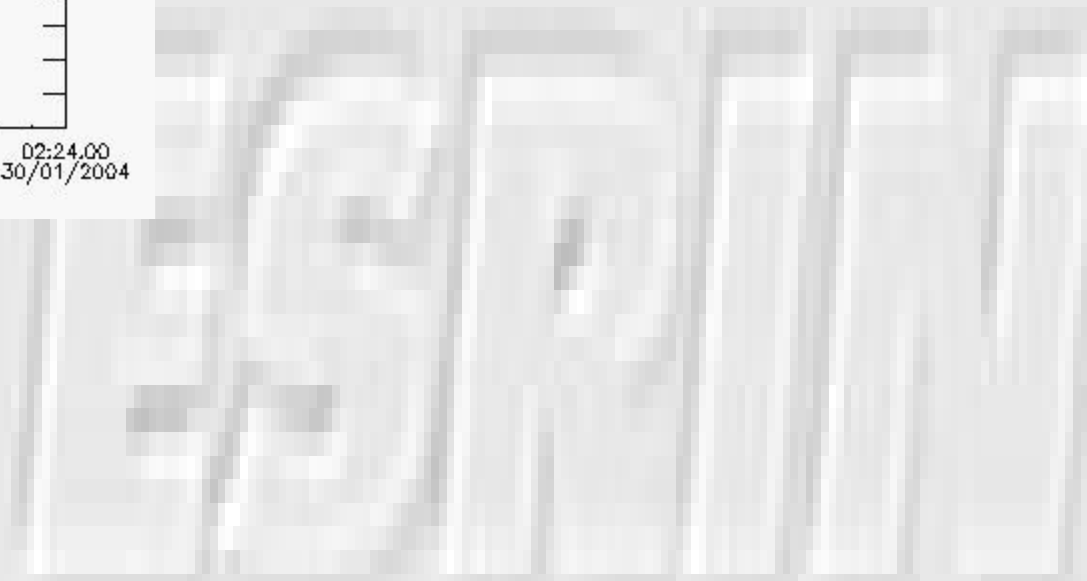
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



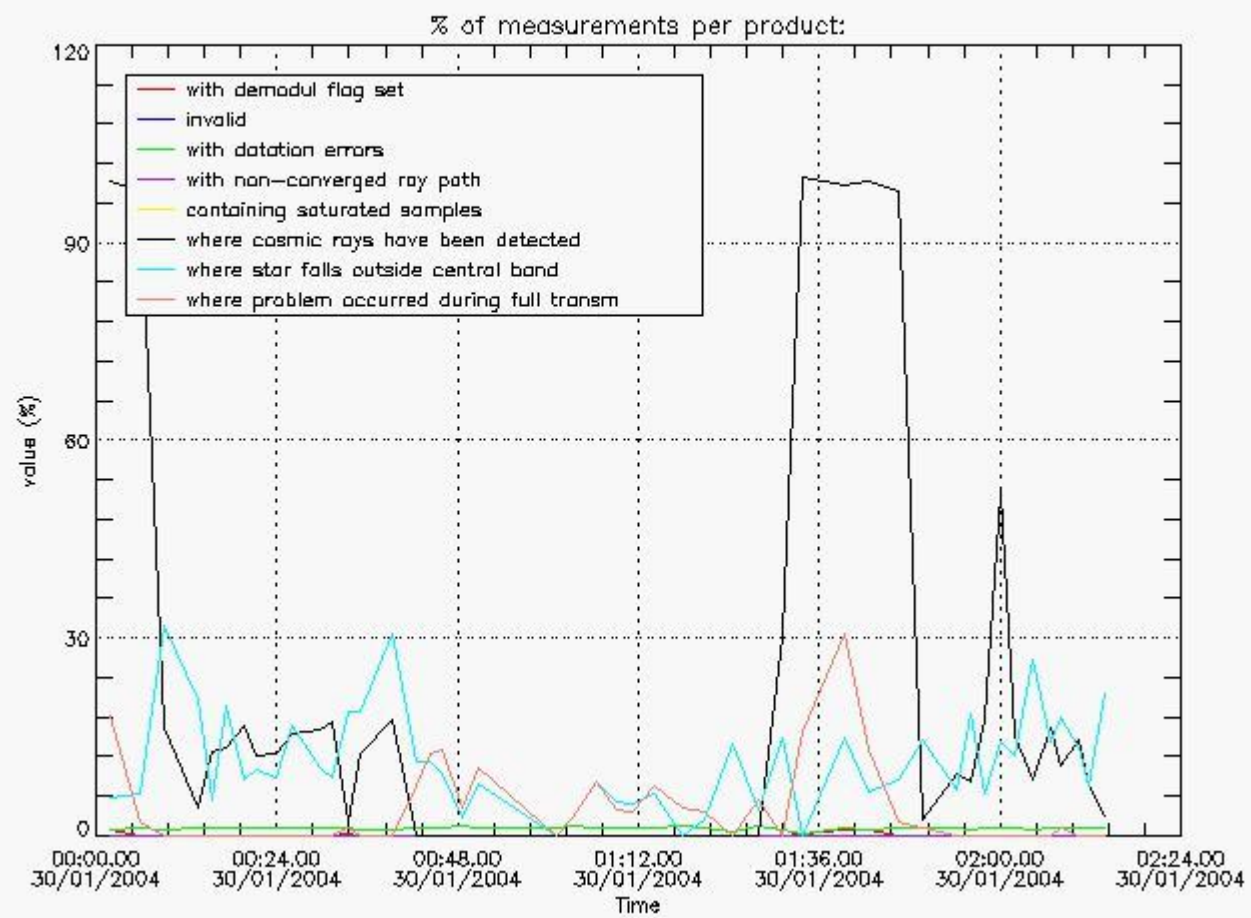
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.5319 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %



5.2 Plot quality information per product



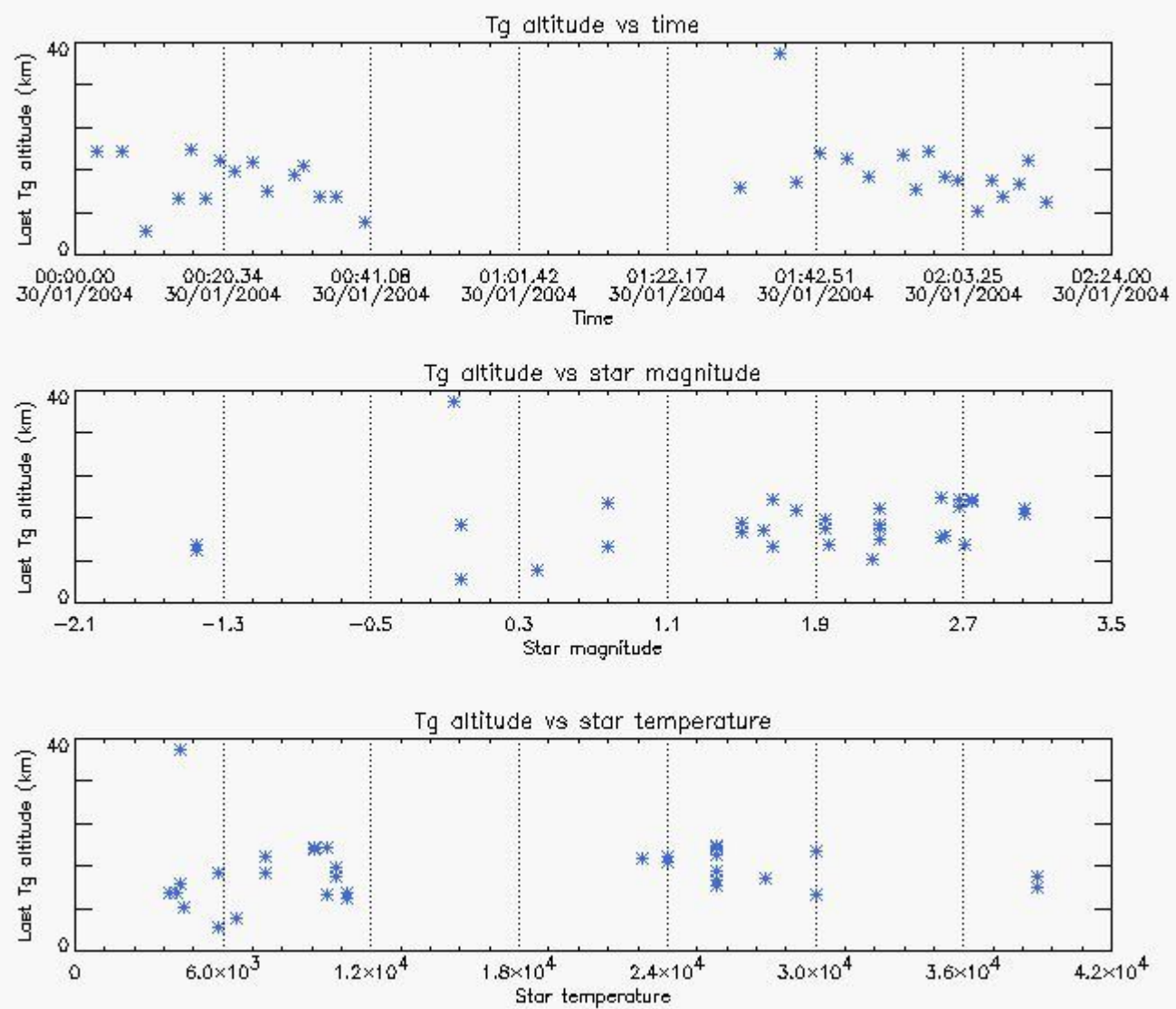
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.933	20.206
St. deviation:	5.8353	3.9006
Maximum:	37.855	27.801
Minimum:	4.2736	13.833
Number of data:	32.000	15.000

6.2 Plot for DARK limb products

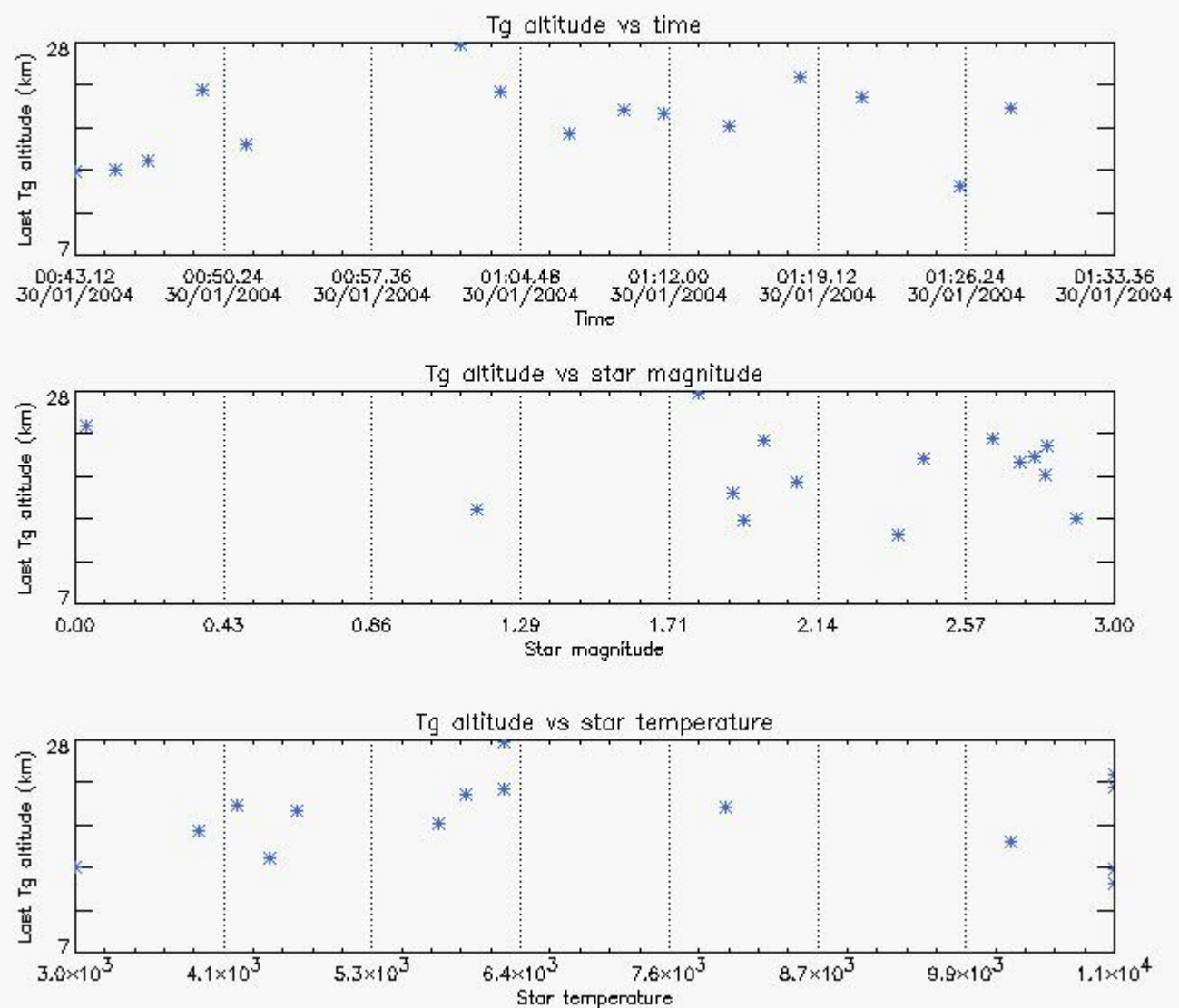
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



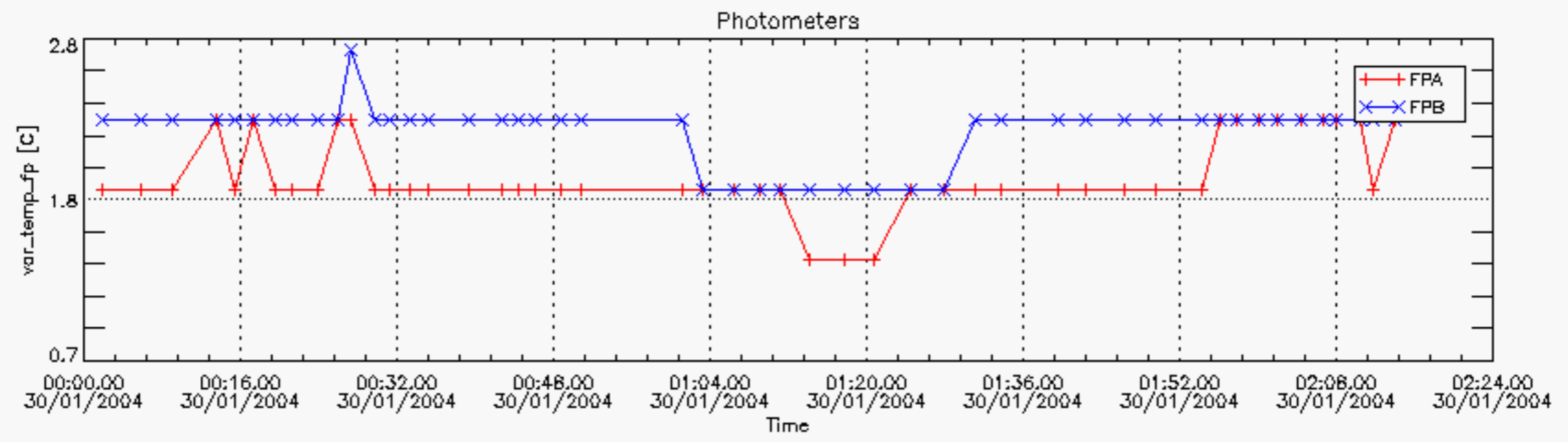
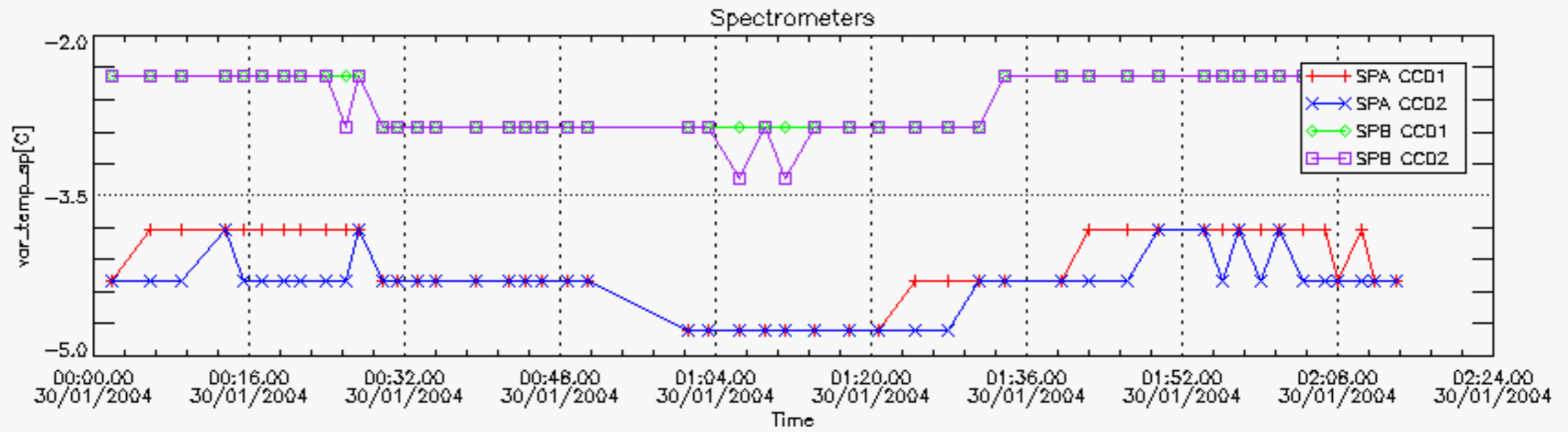
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

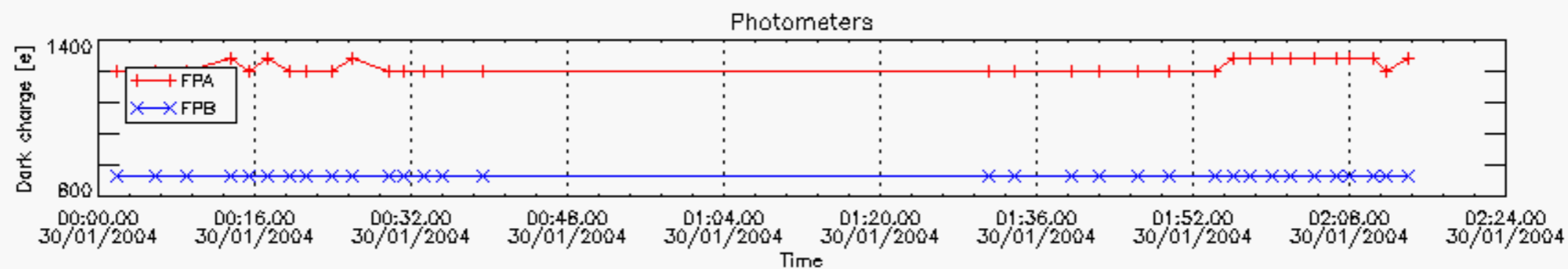
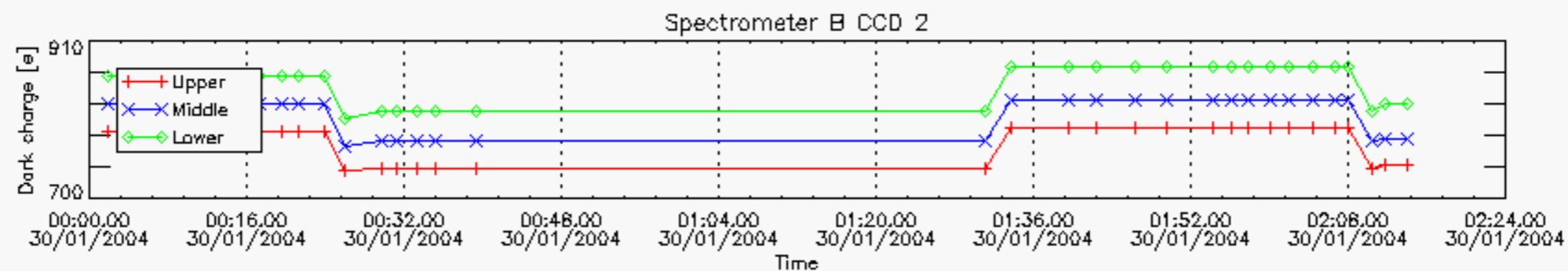
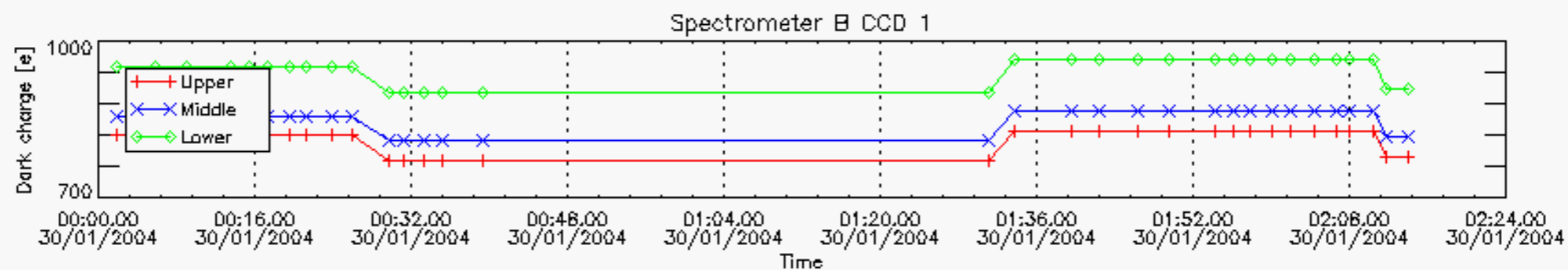
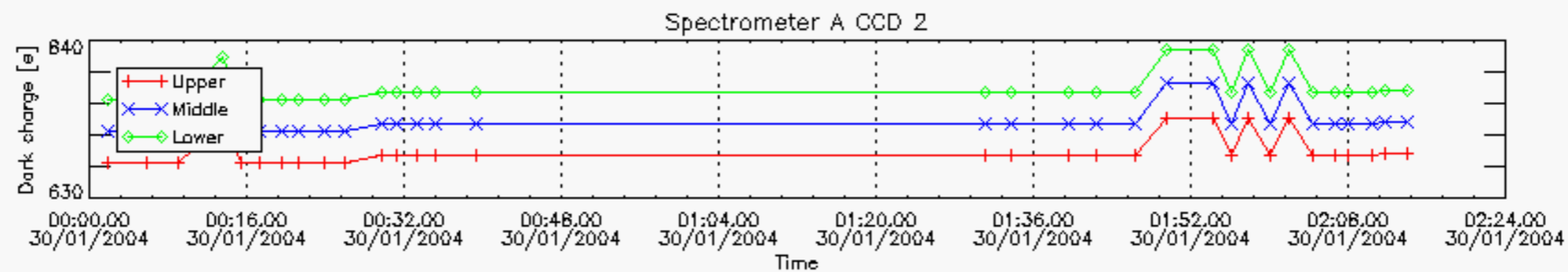
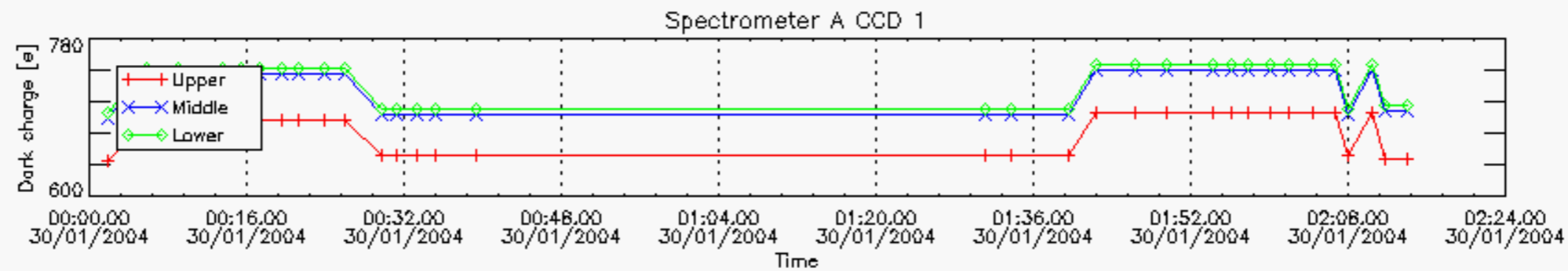
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.5	1447.6	1460.8	1446.7
St. deviation:	5.4697	6.8232	5.5884	7.0008
Maximum:	1597.0	1805.0	1499.0	1490.0
Minimum:	1454.0	1438.0	1443.0	1420.0
Number of data:	45000.	45000.	16950.	16950.

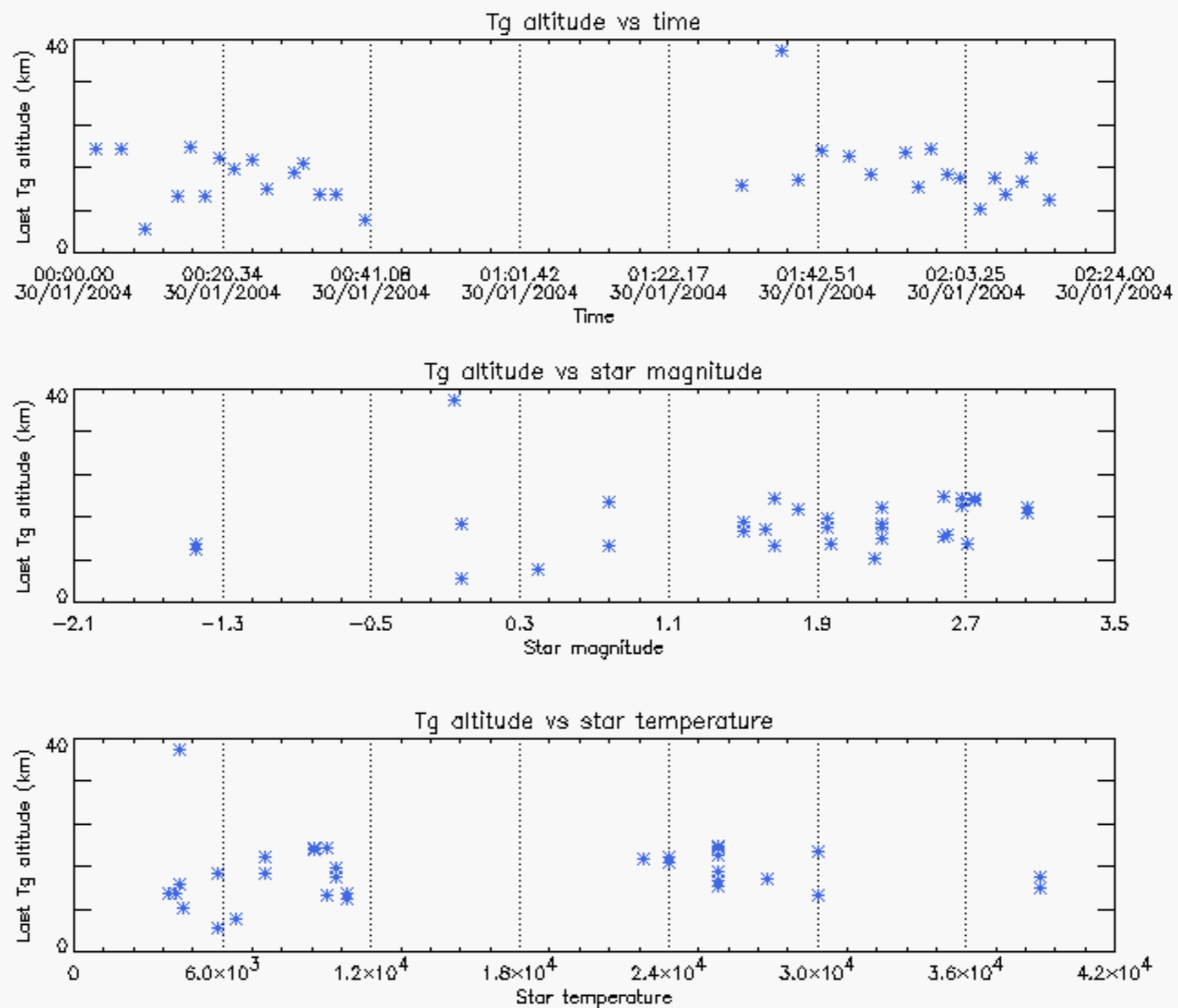




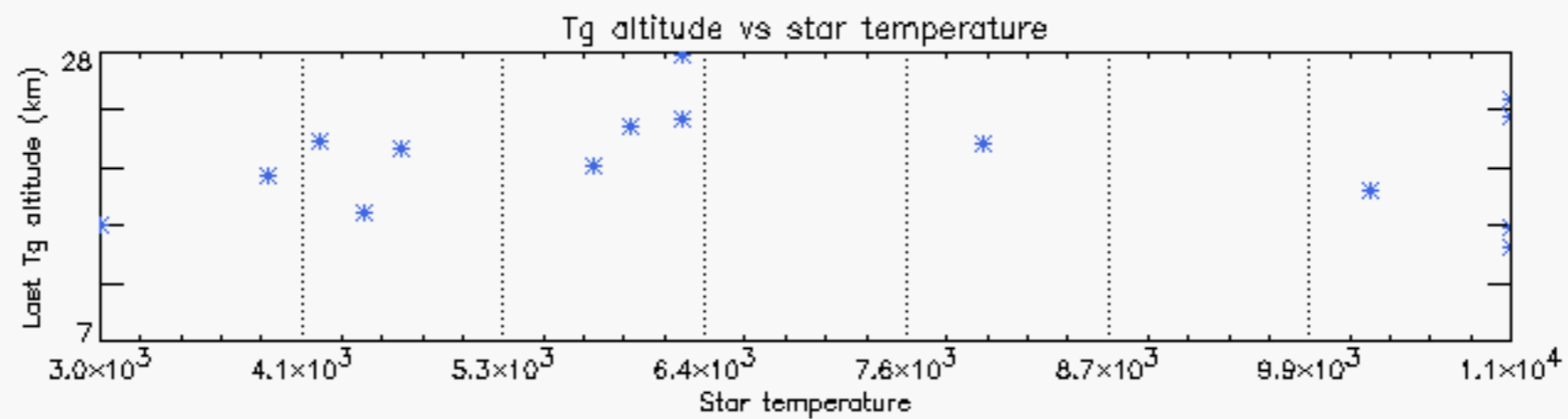
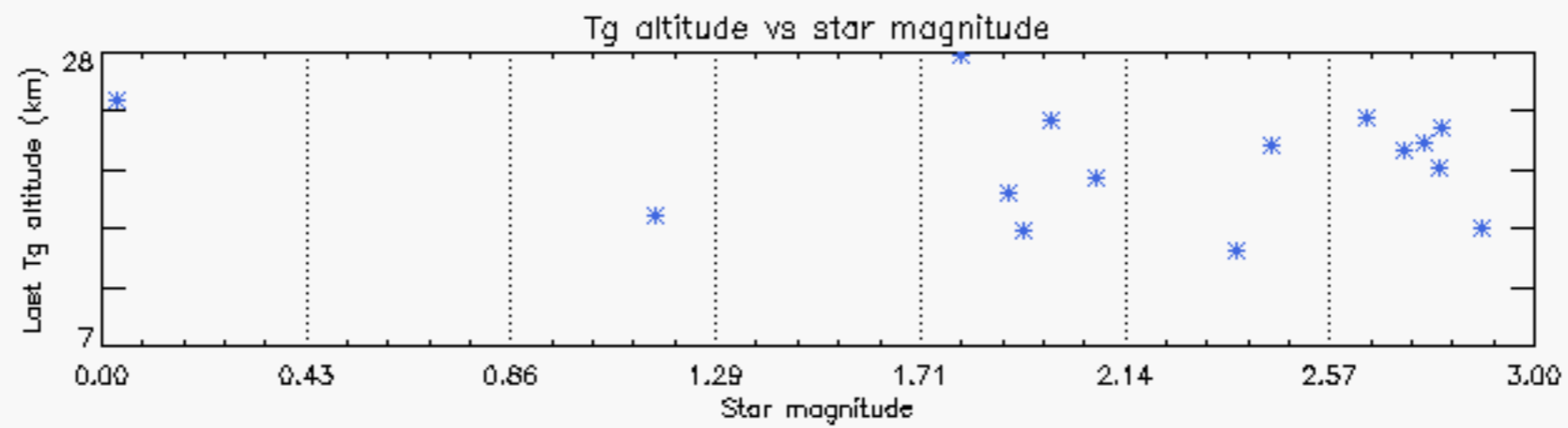
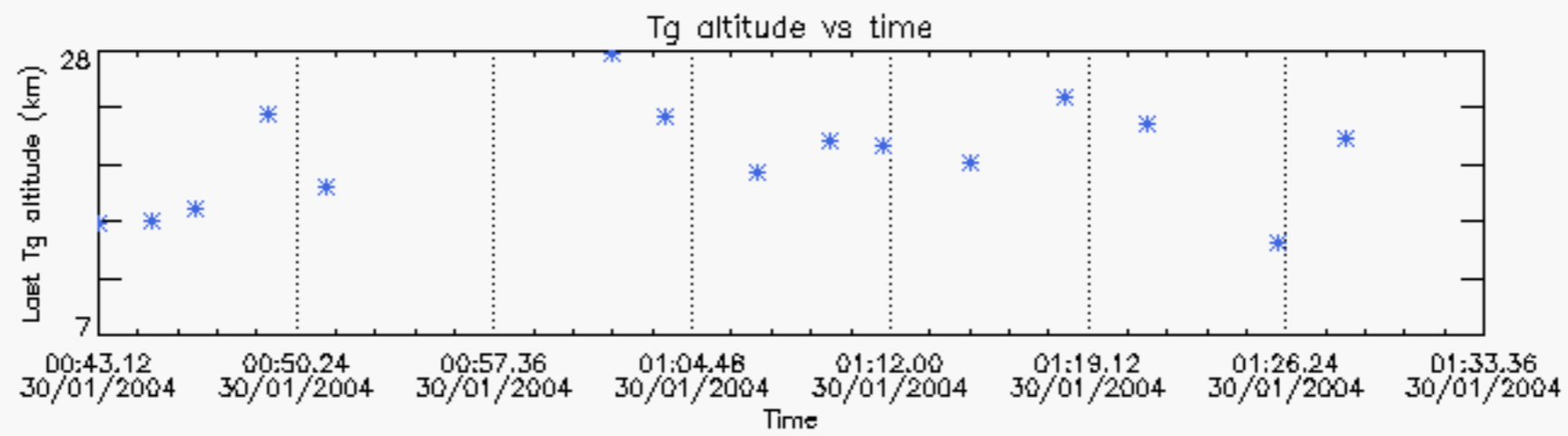




Tangent altitude at which the star is lost



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
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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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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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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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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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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
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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
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33;	225.4;	08-JAN-2004	20:08:27;	Dark	;	42.5;	20;	Bet Cru	;	1.25;	30000;	occ;	85;	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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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
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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
18;	-1787.9;	11-JAN-2004	11:17:39;	Bright;		35.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	71;	0;	9753
19;	-1683.2;	11-JAN-2004	11:19:23;	Bright;		49.0;	180;	27Gam Boo	;	3.04;	8000;occ;	98;	0;	9753
20;	-1430.4;	11-JAN-2004	11:23:36;	Bright;		54.5;	83;		;	2.38;	11000;occ;	109;	0;	9753
21;	-1307.1;	11-JAN-2004	11:25:39;	Bright;		35.5;	59;	55Alp Oph	;	2.08;	8900;occ;	71;	0;	9753
22;	-1108.5;	11-JAN-2004	11:28:58;	Bright;		78.5;	111;	8Eta Boo	;	2.68;	6000;occ;	157;	0;	9753
23;	-878.6;	11-JAN-2004	11:32:48;	Bright;		52.0;	98;	13Zet Oph	;	2.57;	30000;occ;	104;	0;	9753
24;	-611.5;	11-JAN-2004	11:37:15;	Dark	;	46.0;	16;	21Alp Sco	;	1.02;	3000;occ;	92;	0;	9753
25;	-306.1;	11-JAN-2004	11:42:20;	Dark	;	38.5;	131;	Gam Lup	;	2.80;	26000;occ;	77;	0;	9753
26;	-209.2;	11-JAN-2004	11:43:57;	Dark	;	41.0;	109;	Bet Lup	;	2.68;	26000;occ;	82;	0;	9753
27;	-118.7;	11-JAN-2004	11:45:28;	Dark	;	40.5;	78;	Alp Lup	;	2.30;	28000;occ;	81;	0;	9753
28;	247.8;	11-JAN-2004	11:51:34;	Dark	;	42.5;	20;	Bet Cru	;	1.25;	30000;occ;	85;	0;	9754
29;	344.4;	11-JAN-2004	11:53:11;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	9754
30;	502.5;	11-JAN-2004	11:55:49;	Dark	;	40.5;	124;	The Car	;	2.76;	30000;occ;	81;	0;	9754
31;	595.6;	11-JAN-2004	11:57:22;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	9754
32;	701.7;	11-JAN-2004	11:59:08;	Dark	;	50.0;	71;	Iot Car	;	2.25;	7700;occ;	100;	0;	9754
33;	782.9;	11-JAN-2004	12:00:29;	Dark	;	51.0;	41;	Eps Car	;	1.86;	4100;occ;	102;	0;	9754
34;	1010.6;	11-JAN-2004	12:04:17;	Dark	;	46.0;	2;	Alp Car	;	-0.74;	7000;occ;	92;	0;	9754
35;	1111.4;	11-JAN-2004	12:05:58;	Dark	;	42.0;	70;	Zet Pup	;	2.25;	39000;occ;	84;	0;	9754
36;	1217.7;	11-JAN-2004	12:07:44;	Dark	;	46.0;	117;	Pi Pup	;	2.71;	3800;occ;	92;	0;	9754
37;	1375.0;	11-JAN-2004	12:10:21;	Dark	;	43.0;	23;	21Eps CMA	;	1.50;	26000;occ;	86;	0;	9754
38;	1461.4;	11-JAN-2004	12:11:48;	Dark	;	43.0;	179;	240mi2CMA	;	3.03;	24000;occ;	86;	0;	9754

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5;	-4244.8;	11-JAN-2004	17:19:05;	Dark	;	48.0;	7;	19Bet Ori	;	0.10;	14000;occ;	96;	0;	9757
6;	-4141.4;	11-JAN-2004	17:20:49;	Dark	;	43.5;	30;	46Eps Ori	;	1.69;	30000;occ;	87;	0;	9757
7;	-4007.3;	11-JAN-2004	17:23:03;	Dark	;	60.0;	8;	10Alp CMi	;	0.40;	6500;occ;	120;	0;	9757
8;	-3842.0;	11-JAN-2004	17:25:48;	Dark	;	44.0;	44;	24Gam Gem	;	1.93;	11000;occ;	88;	0;	9757
9;	-3740.1;	11-JAN-2004	17:27:30;	Bright;		43.5;	151;	13Mu Gem	;	2.89;	3000;occ;	87;	0;	9757
10;	-3639.6;	11-JAN-2004	17:29:11;	Bright;		39.0;	28;	12Bet Tau	;	1.65;	15200;occ;	78;	0;	9757
11;	-3549.8;	11-JAN-2004	17:30:40;	Bright;		38.5;	114;	3Iot Aur	;	2.69;	4600;occ;	77;	0;	9757
12;	-3361.7;	11-JAN-2004	17:33:48;	Bright;		37.5;	42;	34Bet Aur	;	1.90;	10200;occ;	75;	0;	9757
13;	-3242.3;	11-JAN-2004	17:35:48;	Bright;		37.5;	175;	39Del Per	;	3.01;	19400;occ;	75;	0;	9757
14;	-3103.8;	11-JAN-2004	17:38:06;	Bright;		37.0;	160;	23Gam Per	;	2.93;	4700;occ;	74;	0;	9757
15;	-2612.7;	11-JAN-2004	17:46:18;	Bright;		39.0;	49;	1Alp UMi	;	1.99;	6300;occ;	78;	0;	9757
16;	-2512.9;	11-JAN-2004	17:47:57;	Bright;		55.0;	82;	48Bet UMA	;	2.37;	10600;occ;	110;	0;	9757
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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
28;	-304.3;	11-JAN-2004	18:24:46;	Dark	;	39.5;	131;	Gam Lup	;	2.80;	26000;occ;	79;	0;	9757

29; -206.9; 11-JAN-2004 18:26:23; Dark ; 40.5; 109; Bet Lup ; 2.68; 26000;occ; 81; 0; 9757
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 31; 51.1; 11-JAN-2004 18:30:41; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0; 9758
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 33; 348.1; 11-JAN-2004 18:35:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9758
 34; 504.7; 11-JAN-2004 18:38:15; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0; 9758
 35; 596.9; 11-JAN-2004 18:39:47; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0; 9758
 36; 703.7; 11-JAN-2004 18:41:34; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0; 9758
 37; 784.4; 11-JAN-2004 18:42:55; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0; 9758
 38; 1011.4; 11-JAN-2004 18:46:42; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0; 9758

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 3; -4005.7; 11-JAN-2004 09:00:05; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0; 9752
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 5; -3739.3; 11-JAN-2004 09:04:31; Bright; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0; 9752
 6; -3639.1; 11-JAN-2004 09:06:11; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0; 9752
 7; -3550.4; 11-JAN-2004 09:07:40; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0; 9752
 8; -3361.0; 11-JAN-2004 09:10:50; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0; 9752
 9; -3243.9; 11-JAN-2004 09:12:47; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0; 9752
 10; -3106.0; 11-JAN-2004 09:15:05; Bright; 38.0; 160; 23Gam Per ; 2.93; 4700;occ; 76; 0; 9752
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 12; -2507.4; 11-JAN-2004 09:25:03; Bright; 52.5; 82; 48Bet UMa ; 2.37; 10600;occ; 105; 0; 9752
 13; -2363.9; 11-JAN-2004 09:27:27; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0; 9752
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 26; 247.7; 11-JAN-2004 10:10:58; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0; 9753
 27; 343.4; 11-JAN-2004 10:12:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9753
 28; 502.3; 11-JAN-2004 10:15:13; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0; 9753
 29; 595.6; 11-JAN-2004 10:16:46; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0; 9753
 30; 701.5; 11-JAN-2004 10:18:32; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0; 9753
 31; 783.0; 11-JAN-2004 10:19:54; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0; 9753
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 33; 1111.1; 11-JAN-2004 10:25:22; Dark ; 48.5; 70; Zet Pup ; 2.25; 39000;occ; 97; 0; 9753
 34; 1217.7; 11-JAN-2004 10:27:08; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0; 9753
 35; 1375.1; 11-JAN-2004 10:29:46; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0; 9753
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26; -117.9; 11-JAN-2004 13:26:04; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0; 9754
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31; 702.2; 11-JAN-2004 13:39:45; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0; 9755
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35; 662.9; 27-JAN-2004 18:37:59; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0; 9987
36; 798.6; 27-JAN-2004 18:40:14; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0; 9987
37; 906.3; 27-JAN-2004 18:42:02; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0; 9987
38; 1046.1; 27-JAN-2004 18:44:22; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0; 9987
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2;-4850.1; 27-JAN-2004 18:46:42; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0; 9987
3;-4762.7; 27-JAN-2004 18:48:09; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0; 9987
4;-4616.1; 27-JAN-2004 18:50:36; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0; 9987
5;-4532.8; 27-JAN-2004 18:51:59; Dark ; 39.5; 179; 240mi2CMa ; 3.03; 24000;occ; 79; 0; 9987

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6;	-4403.5;	27-JAN-2004	18:54:08;	Dark	;	47.0;	1;	9Alp	CMa	;	-1.44;	11000;	occ;	94;	0;	9987
7;	-4284.8;	27-JAN-2004	18:56:07;	Dark	;	71.5;	48;	30Alp	Hya	;	1.98;	4100;	occ;	143;	0;	9987
8;	-4044.7;	27-JAN-2004	19:00:07;	Dark	;	50.5;	8;	10Alp	CMI	;	0.40;	6500;	occ;	101;	0;	9987
9;	-3846.9;	27-JAN-2004	19:03:25;	Bright;		40.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	80;	0;	9987
10;	-3739.7;	27-JAN-2004	19:05:12;	Bright;		41.5;	151;	13Mu	Gem	;	2.89;	3000;	occ;	83;	0;	9987
11;	-3630.6;	27-JAN-2004	19:07:01;	Bright;		44.5;	17;	78Bet	Gem	;	1.16;	4500;	occ;	89;	0;	9987
12;	-3484.4;	27-JAN-2004	19:09:27;	Bright;		39.0;	107;	37The	Aur	;	2.65;	11000;	occ;	78;	0;	9987
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
15;	-2531.1;	27-JAN-2004	19:25:21;	Bright;		55.0;	87;	64Gam	UMa	;	2.43;	11000;	occ;	110;	0;	9987
16;	-2408.1;	27-JAN-2004	19:27:24;	Bright;		36.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	73;	0;	9987
17;	-2266.0;	27-JAN-2004	19:29:46;	Bright;		40.0;	89;	5Alp	Cep	;	2.45;	8000;	occ;	80;	0;	9987
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
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32;	171.4;	27-JAN-2004	20:10:23;	Dark	;	38.5;	145;	Gam	TrA	;	2.87;	10600;	occ;	77;	0;	9988
33;	265.5;	27-JAN-2004	20:11:57;	Dark	;	58.5;	0;			;	0.00;	0;	occ;	117;	0;	9988
34;	432.6;	27-JAN-2004	20:14:44;	Dark	;	42.0;	12;	Alp1Cru		;	0.77;	30000;	occ;	84;	0;	9988
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36;	663.7;	27-JAN-2004	20:18:35;	Dark	;	41.0;	29;	Bet	Car	;	1.67;	10200;	occ;	82;	0;	9988
37;	799.1;	27-JAN-2004	20:20:51;	Dark	;	40.0;	71;	Iot	Car	;	2.25;	7700;	occ;	80;	0;	9988
38;	906.1;	27-JAN-2004	20:22:38;	Dark	;	40.5;	46;	Del	Vel	;	1.95;	10600;	occ;	81;	0;	9988
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5;	-3845.8;	28-JAN-2004	06:47:37;	Bright;		40.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	80;	0;	9994
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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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13;	-2266.0;	28-JAN-2004	07:13:57;	Bright;		41.0;	89;	5Alp	Cep	;	2.45;	8000;	occ;	82;	0;	9994
14;	-2132.0;	28-JAN-2004	07:16:11;	Bright;		39.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	79;	0;	9994
15;	-1951.4;	28-JAN-2004	07:19:12;	Bright;		39.5;	130;	23Bet	Dra	;	2.80;	5800;	occ;	79;	0;	9994
16;	-1742.6;	28-JAN-2004	07:22:41;	Bright;		37.0;	5;	3Alp	Lyr	;	0.03;	11000;	occ;	74;	0;	9994
17;	-1559.5;	28-JAN-2004	07:25:44;	Bright;		41.0;	133;	40Zet	Her	;	2.81;	6000;	occ;	82;	0;	9994
18;	-1340.8;	28-JAN-2004	07:29:22;	Bright;		80.5;	83;			;	2.38;	11000;	occ;	161;	0;	9994
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21;	-504.2;	28-JAN-2004	07:43:19;	Dark	;	57.0;	16;	21Alp	Sco	;	1.02;	3000;	occ;	114;	0;	9994
22;	-416.4;	28-JAN-2004	07:44:47;	Dark	;	41.5;	85;	Kap	Sco	;	2.41;	28000;	occ;	83;	0;	9994
23;	-348.0;	28-JAN-2004	07:45:55;	Dark	;	46.0;	40;	The	Sco	;	1.86;	7100;	occ;	92;	0;	9994
24;	-233.8;	28-JAN-2004	07:47:49;	Dark	;	41.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	82;	0;	9994
25;	-138.9;	28-JAN-2004	07:49:24;	Dark	;	41.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	82;	0;	9994
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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32;	801.8;	28-JAN-2004	08:05:05;	Dark	;	45.0;	71;	Iot	Car	;	2.25;	7700;	occ;	90;	0;	9995
33;	909.1;	28-JAN-2004	08:06:52;	Dark	;	39.0;	46;	Del	Vel	;	1.95;	10600;	occ;	78;	0;	9995
34;	1063.5;	28-JAN-2004	08:09:27;	Dark	;	42.0;	34;	Gam2	Vel	;	1.79;	23000;	occ;	84;	0;	9995


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38; 1504.9; 28-JAN-2004 08:16:48; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0; 9995
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25; 437.1; 28-JAN-2004 11:20:12; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0; 9997
26; 542.6; 28-JAN-2004 11:21:58; Dark ; 49.5; 99; Del Cen ; 2.58; 26000;occ; 99; 0; 9997
27; 666.1; 28-JAN-2004 11:24:01; Dark ; 46.0; 29; Bet Car ; 1.67; 10200;occ; 92; 0; 9997
28; 802.7; 28-JAN-2004 11:26:18; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0; 9997
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32; 1275.4; 28-JAN-2004 11:34:10; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0; 9997
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13;-1743.9; 28-JAN-2004 12:24:27; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0; 9997
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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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