

GOMOS Daily Report 17-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	18JAN2004 06:51:45
Data source version	<Any version>
Start time of products	17-JAN-2004 (17JAN2004 00:00:00)
Stop time of products	18-JAN-2004 (18JAN2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

2. Summary of products arrived in PCF

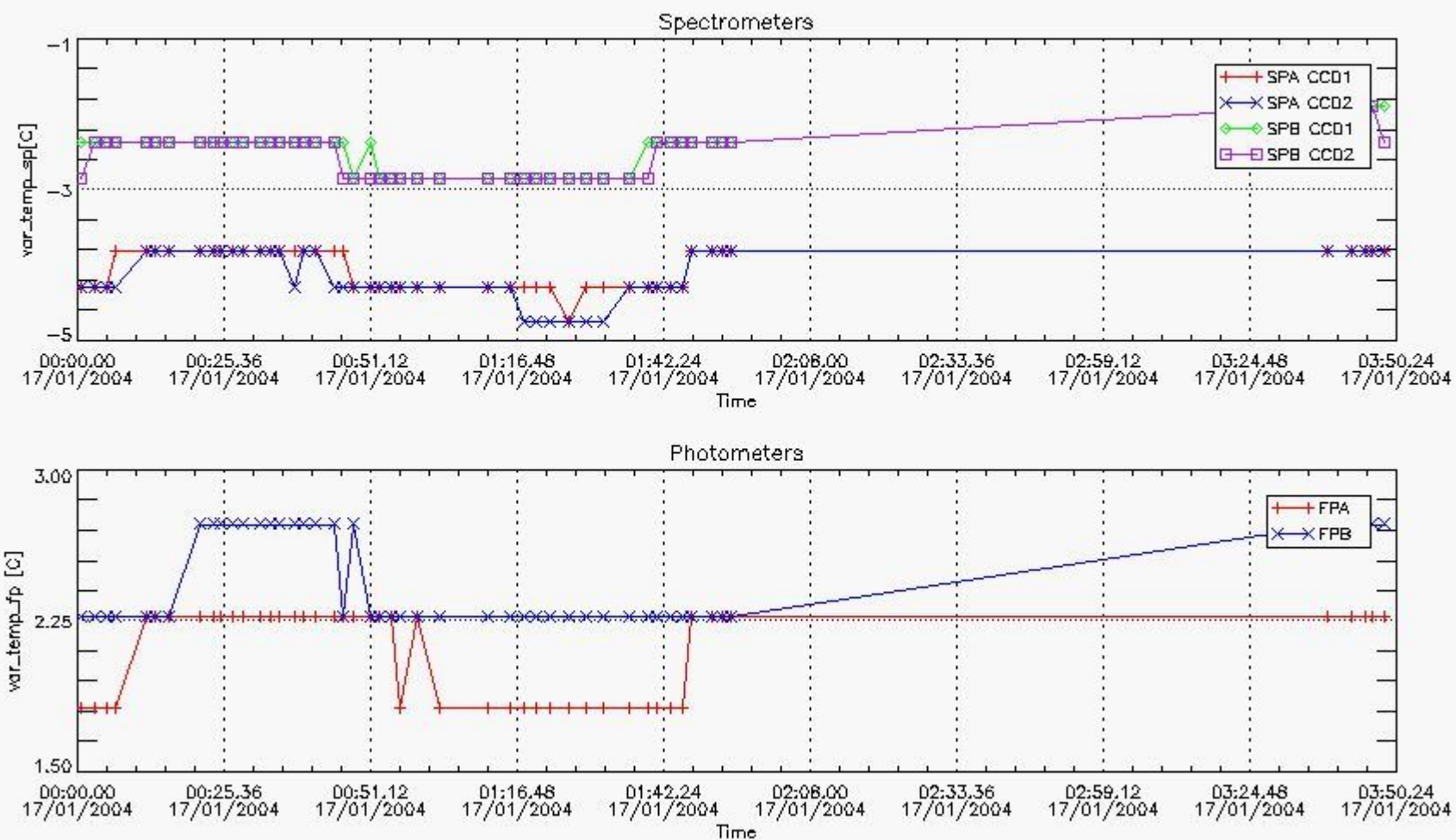
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040117_000030_000000542023_00259_09832_0023.N1	17-JAN-2004 00:00:30	Bright	54.000	98	13Zet Oph	2.5710	30000.	108	9832	No
GOM_TRA_1PNPDE20040117_000256_000000512023_00259_09832_0024.N1	17-JAN-2004 00:02:56	Dark	50.500	104	27Bet Lib	2.6140	13100.	101	9832	No
GOM_TRA_1PNPDE20040117_000458_000000532023_00259_09832_0025.N1	17-JAN-2004 00:04:58	Dark	53.000	16	21Alp Sco	1.0200	3000.0	106	9832	No
GOM_TRA_1PNPDE20040117_000637_000000492023_00259_09832_0026.N1	17-JAN-2004 00:06:37	Dark	48.500	75	26Eps Sco	2.2910	4250.0	97	9832	No
GOM_TRA_1PNPDE20040117_001203_000000422023_00259_09832_0027.N1	17-JAN-2004 00:12:03	Dark	42.000	109	Bet Lup	2.6770	26000.	84	9832	No
GOM_TRA_1PNPDE20040117_001327_000000662023_00259_09832_0028.N1	17-JAN-2004 00:13:27	Dark	65.500	54	5The Cen	2.0550	4500.0	131	9832	No
GOM_TRA_1PNPDE20040117_001606_000000432023_00260_09833_0029.N1	17-JAN-2004 00:16:06	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	9833	No
GOM_TRA_1PNPDE20040117_002127_000000462023_00260_09833_0030.N1	17-JAN-2004 00:21:27	Dark	46.000	99	Del Cen	2.5750	26000.	92	9833	No
GOM_TRA_1PNPDE20040117_002343_000000412023_00260_09833_0031.N1	17-JAN-2004 00:23:43	Dark	40.500	124	The Car	2.7640	30000.	81	9833	No
GOM_TRA_1PNPDE20040117_002502_000000412023_00260_09833_0032.N1	17-JAN-2004 00:25:02	Dark	41.000	29	Bet Car	1.6720	10200.	82	9833	No
GOM_TRA_1PNPDE20040117_002700_000000432023_00260_09833_0033.N1	17-JAN-2004 00:27:00	Dark	42.500	71	lot Car	2.2460	7700.0	85	9833	No
GOM_TRA_1PNPDE20040117_002852_000000452023_00260_09833_0034.N1	17-JAN-2004 00:28:52	Dark	44.500	46	Del Vel	1.9540	10600.	89	9833	No
GOM_TRA_1PNPDE20040117_003148_000000462023_00260_09833_0035.N1	17-JAN-2004 00:31:48	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	9833	No
GOM_TRA_1PNPDE20040117_003343_000000422023_00260_09833_0036.N1	17-JAN-2004 00:33:43	Dark	42.000	70	Zet Pup	2.2460	39000.	84	9833	No
GOM_TRA_1PNPDE20040117_003521_000000452023_00260_09833_0037.N1	17-JAN-2004 00:35:21	Dark	44.500	117	Pi Pup	2.7060	3800.0	89	9833	No
GOM_TRA_1PNPDE20040117_003754_000000462023_00260_09833_0000.N1	17-JAN-2004 00:37:54	Dark	45.500	23	21Eps CMa	1.5020	26000.	91	9833	No
GOM_TRA_1PNPDE20040117_003919_000000432023_00260_09833_0001.N1	17-JAN-2004 00:39:19	Dark	42.500	179	24Omi2CMa	3.0320	24000.	85	9833	No
GOM_TRA_1PNPDE20040117_004132_000000512023_00260_09833_0002.N1	17-JAN-2004 00:41:32	Dark	50.500	1	9Alp CMa	-1.4400	11000.	101	9833	No
GOM_TRA_1PNPDE20040117_004450_000000522023_00260_09833_0003.N1	17-JAN-2004 00:44:50	Dark	52.000	7	19Bet Ori	0.10000	14000.	104	9833	No
GOM_TRA_1PNPDE20040117_004627_000000462023_00260_09833_0004.N1	17-JAN-2004 00:46:27	Dark	45.500	30	46Eps Ori	1.6940	30000.	91	9833	No
GOM_TRA_1PNPDE20040117_004813_000000622023_00260_09833_0005.N1	17-JAN-2004 00:48:13	Dark	62.000	8	10Alp CMi	0.40000	6500.0	124	9833	No
GOM_TRA_1PNPDE20040117_005109_000000502023_00260_09833_0006.N1	17-JAN-2004 00:51:09	Dark	49.500	44	24Gam Gem	1.9280	11000.	99	9833	No
GOM_TRA_1PNPDE20040117_005239_000000372023_00260_09833_0007.N1	17-JAN-2004 00:52:39	Bright	36.500	176	23Zet Tau	3.0200	22000.	73	9833	No
GOM_TRA_1PNPDE20040117_005448_000000402023_00260_09833_0008.N1	17-JAN-2004 00:54:48	Bright	40.000	28	12Bet Tau	1.6500	15200.	80	9833	No
GOM_TRA_1PNPDE20040117_005623_000000422023_00260_09833_0009.N1	17-JAN-2004 00:56:23	Bright	42.000	114	3lot Aur	2.6930	4600.0	84	9833	No
GOM_TRA_1PNPDE20040117_005913_000000392023_00260_09833_0010.N1	17-JAN-2004 00:59:13	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	9833	No
GOM_TRA_1PNPDE20040117_010319_000001052023_00260_09833_0011.N1	17-JAN-2004 01:03:19	Bright	104.50	166	17Eps Leo	2.9800	6000.0	209	9833	No
GOM_TRA_1PNPDE20040117_011147_000000372023_00260_09833_0012.N1	17-JAN-2004 01:11:47	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	9833	No
GOM_TRA_1PNPDE20040117_011542_000000412023_00260_09833_0013.N1	17-JAN-2004 01:15:42	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	9833	No
GOM_TRA_1PNPDE20040117_011757_000000532023_00260_09833_0014.N1	17-JAN-2004 01:17:57	Bright	53.000	32	77Eps UMa	1.7630	11000.	106	9833	No
GOM_TRA_1PNPDE20040117_012002_000000392023_00260_09833_0015.N1	17-JAN-2004 01:20:02	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	9833	No
GOM_TRA_1PNPDE20040117_012238_000000392023_00260_09833_0016.N1	17-JAN-2004 01:22:38	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	9833	No
GOM_TRA_1PNPDE20040117_012548_000000372023_00260_09833_0017.N1	17-JAN-2004 01:25:48	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	9833	No
GOM_TRA_1PNPDE20040117_012857_000000392023_00260_09833_0018.N1	17-JAN-2004 01:28:57	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	9833	No
GOM_TRA_1PNPDE20040117_013153_000000592023_00260_09833_0019.N1	17-JAN-2004 01:31:53	Bright	59.000	83		2.3780	11000.	118	9833	No
GOM_TRA_1PNPDE20040117_013631_000001002023_00260_09833_0020.N1	17-JAN-2004 01:36:31	Dark	99.500	3	16Alp Boo	-0.050000	4250.0	199	9833	No
GOM_TRA_1PNPDE20040117_013946_000000442023_00260_09833_0021.N1	17-JAN-2004 01:39:46	Bright	43.500	120	1Del Oph	2.7340	3200.0	87	9833	No
GOM_TRA_1PNPDE20040117_014107_000000382023_00260_09833_0022.N1	17-JAN-2004 01:41:07	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	9833	No
GOM_TRA_1PNPDE20040117_014333_000000532023_00260_09833_0023.N1	17-JAN-2004 01:43:33	Dark	53.000	104	27Bet Lib	2.6140	13100.	106	9833	No
GOM_TRA_1PNPDE20040117_014535_000000492023_00260_09833_0024.N1	17-JAN-2004 01:45:35	Dark	48.500	16	21Alp Sco	1.0200	3000.0	97	9833	No
GOM_TRA_1PNPDE20040117_014714_000000432023_00260_09833_0025.N1	17-JAN-2004 01:47:14	Dark	43.000	75	26Eps Sco	2.2910	4250.0	86	9833	No
GOM_TRA_1PNPDE20040117_015052_000000412023_00260_09833_0026.N1	17-JAN-2004 01:50:52	Dark	41.000	131	Gam Lup	2.8000	26000.	82	9833	No
GOM_TRA_1PNPDE20040117_015240_000000432023_00260_09833_0027.N1	17-JAN-2004 01:52:40	Dark	42.500	109	Bet Lup	2.6770	26000.	85	9833	No
GOM_TRA_1PNPDE20040117_015404_000000532023_00260_09833_0028.N1	17-JAN-2004 01:54:04	Dark	53.000	54	5The Cen	2.0550	4500.0	106	9833	No
GOM_TRA_1PNPDE20040117_033817_000000482023_00262_09835_0000.N1	17-JAN-2004 03:38:17	Dark	48.000	10	Bet Cen	0.61000	28000.	96	9835	No
GOM_TRA_1PNPDE20040117_034241_000000452023_00262_09835_0001.N1	17-JAN-2004 03:42:41	Dark	45.000	99	Del Cen	2.5750	26000.	90	9835	No
GOM_TRA_1PNPDE20040117_034457_000000402023_00262_09835_0002.N1	17-JAN-2004 03:44:57	Dark	40.000	124	The Car	2.7640	30000.	80	9835	No
GOM_TRA_1PNPDE20040117_034616_000000432023_00262_09835_0003.N1	17-JAN-2004 03:46:16	Dark	43.000	29	Bet Car	1.6720	10200.	86	9835	No
GOM_TRA_1PNPDE20040117_034814_000000422023_00262_09835_0004.N1	17-JAN-2004 03:48:14	Dark	41.500	71	lot Car	2.2460	7700.0	83	9835	No

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



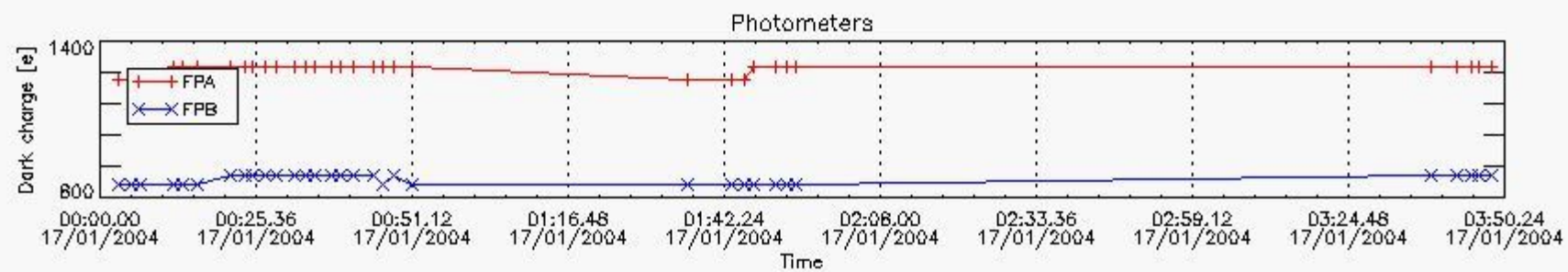
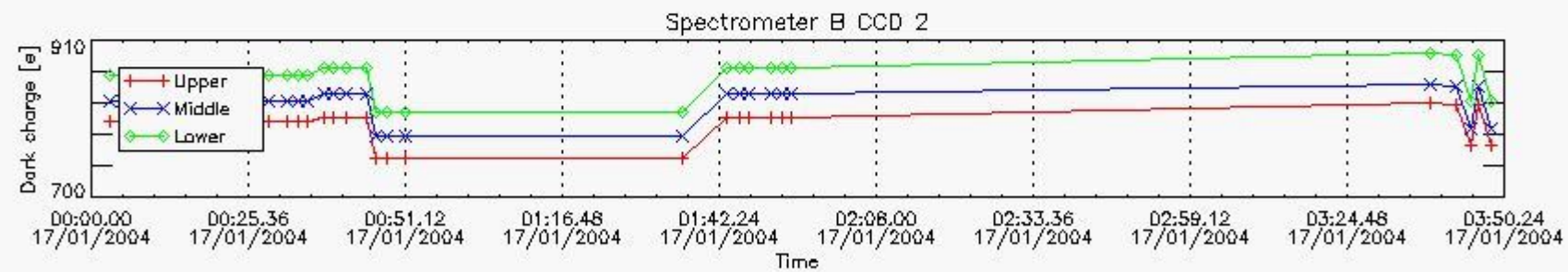
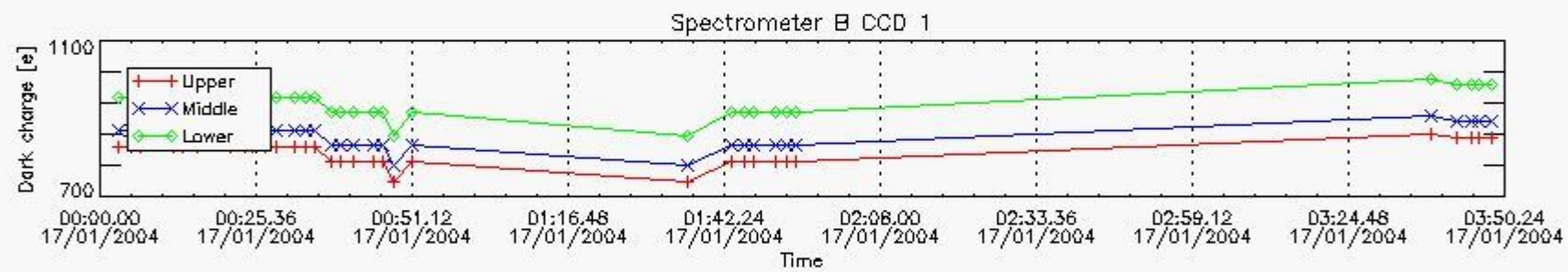
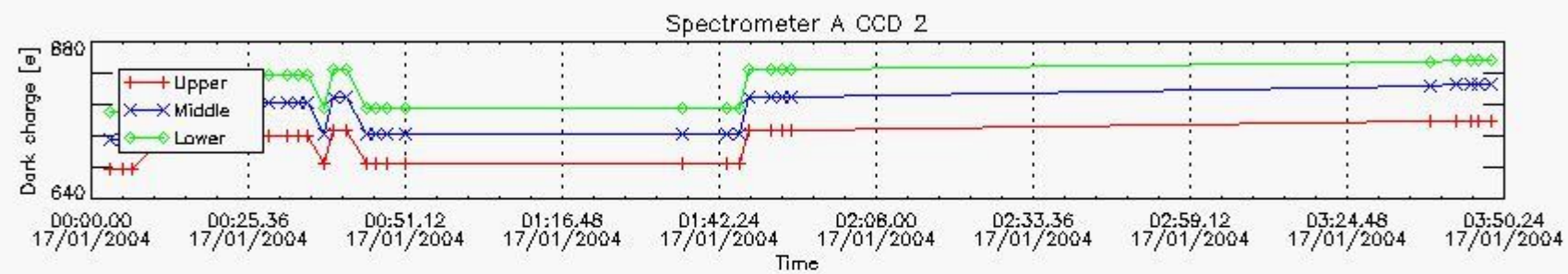
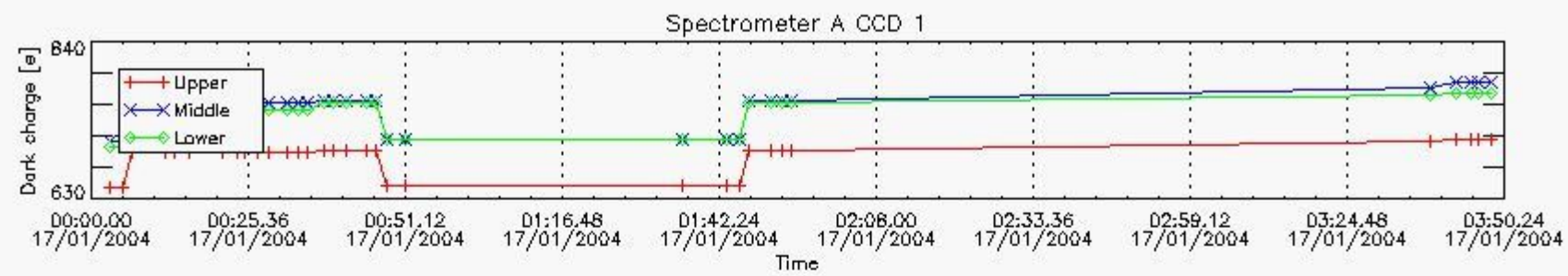
4. Overview of dark signal processing per product

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



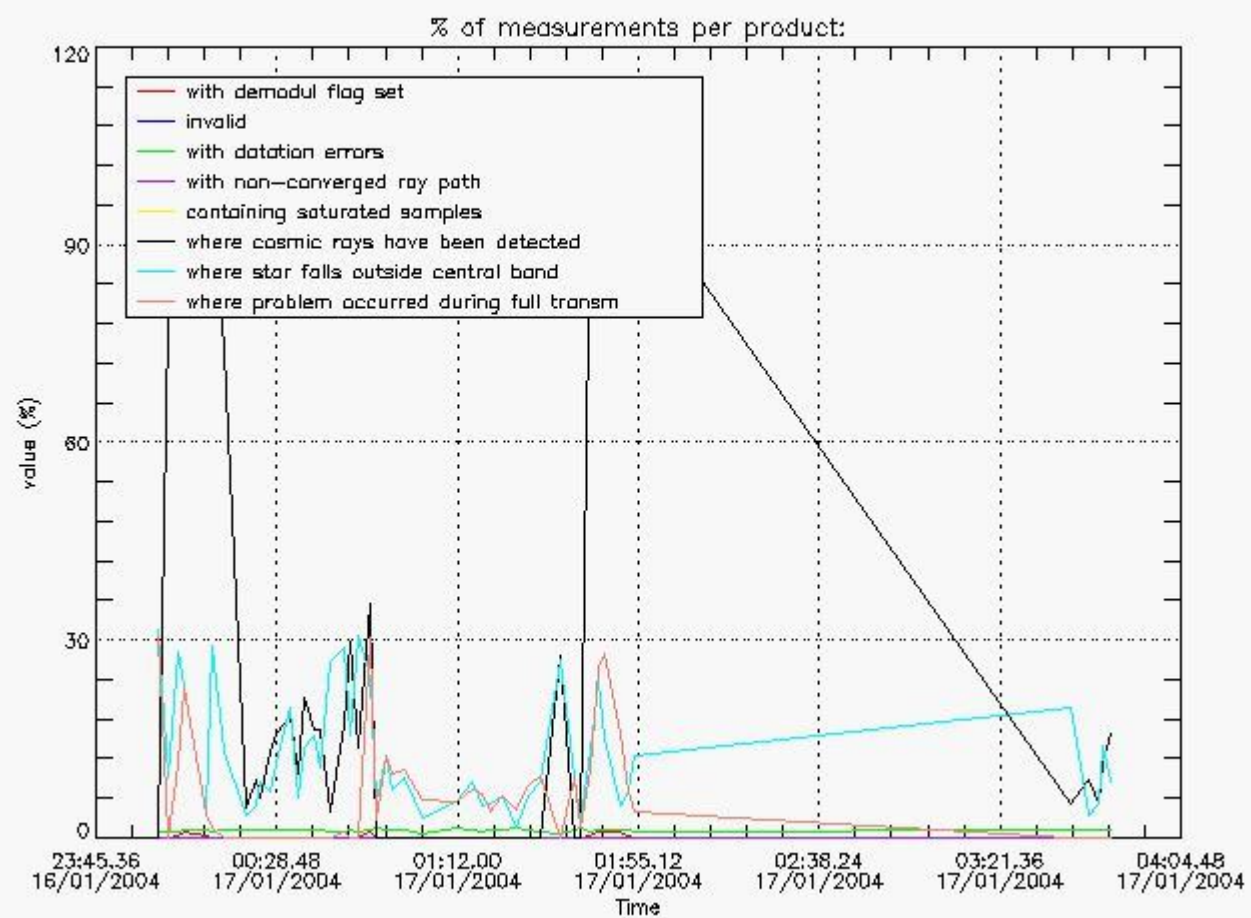
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.6122 %
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



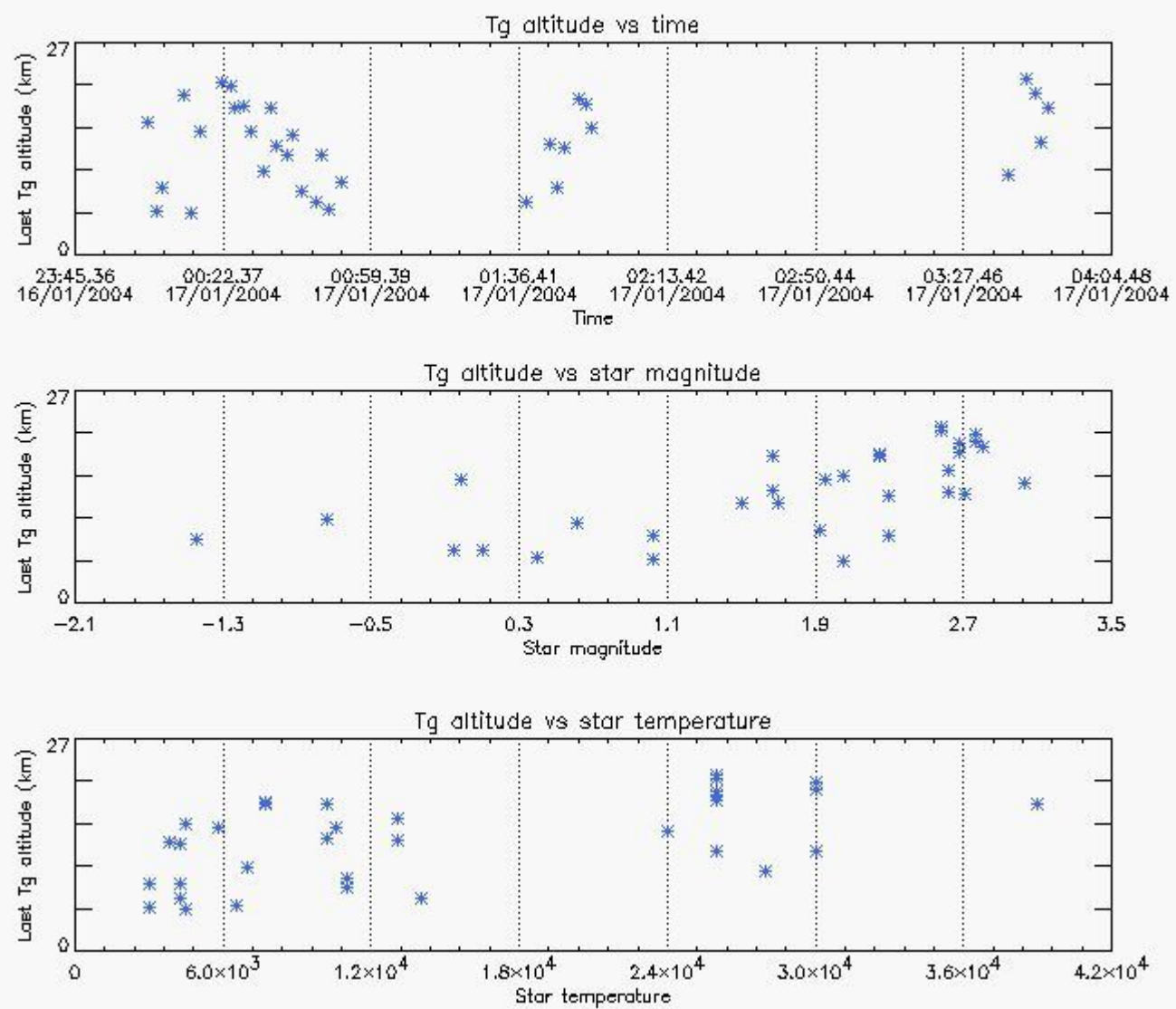
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.139	19.043
St. deviation:	5.3355	4.3893
Maximum:	22.401	23.659
Minimum:	5.2734	5.3499
Number of data:	33.000	16.000

6.2 Plot for DARK limb products

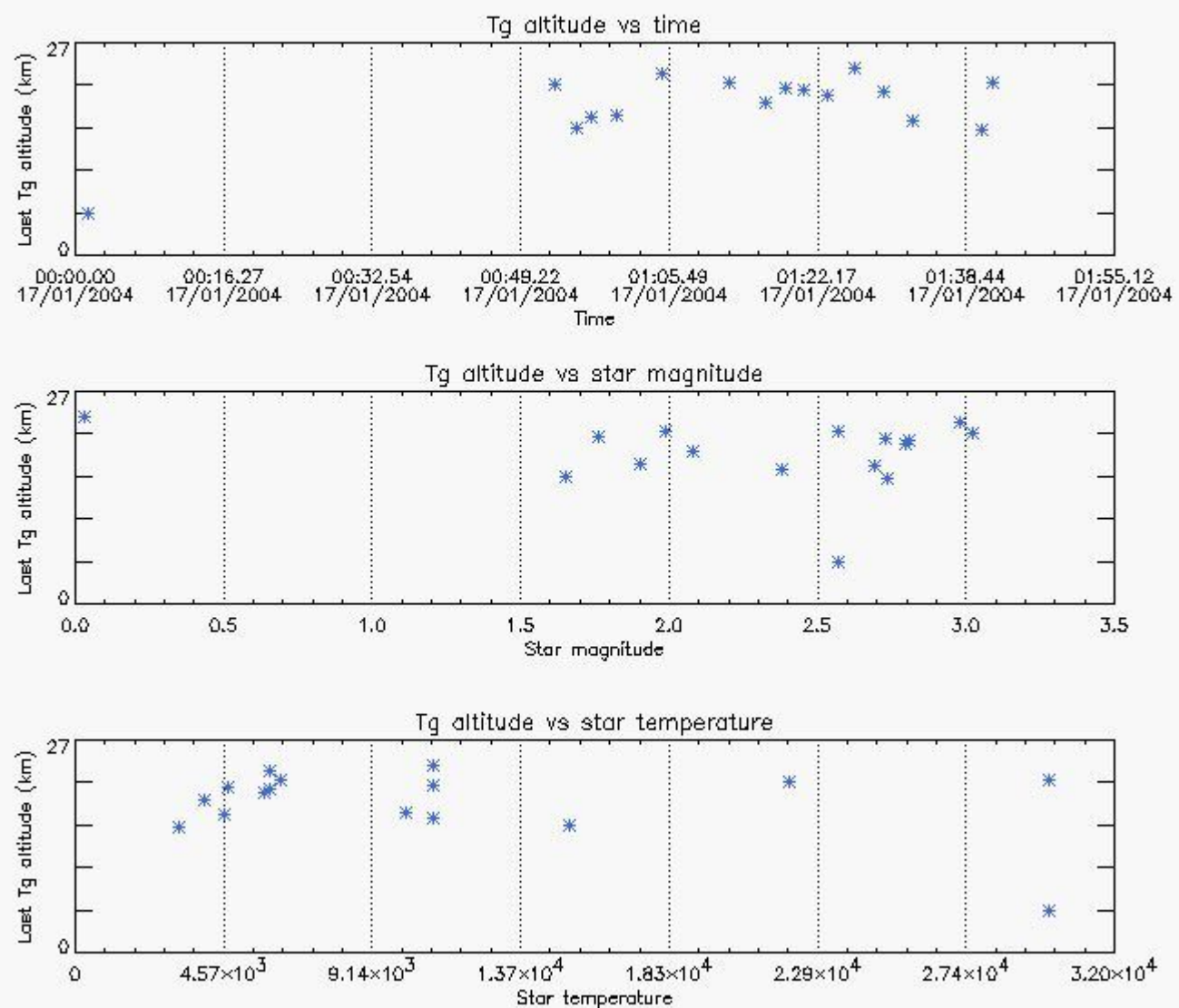
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



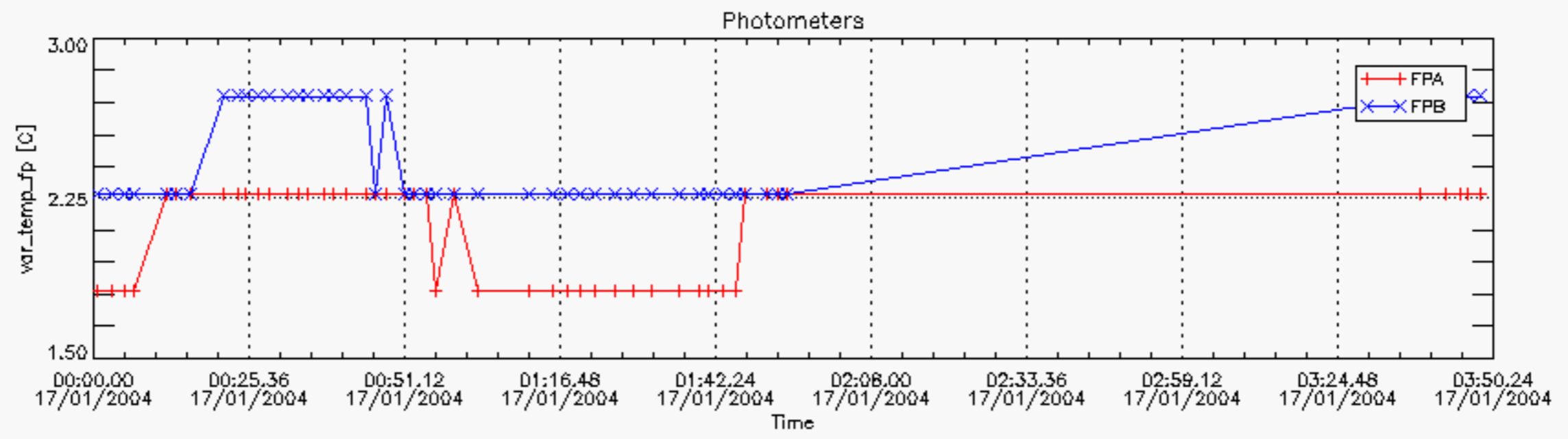
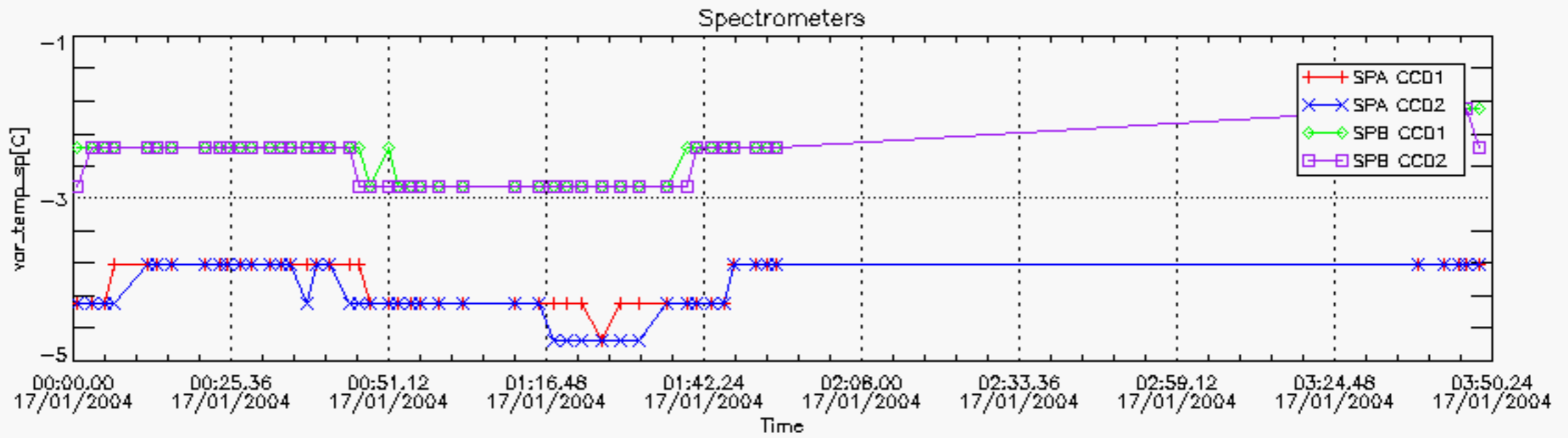
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

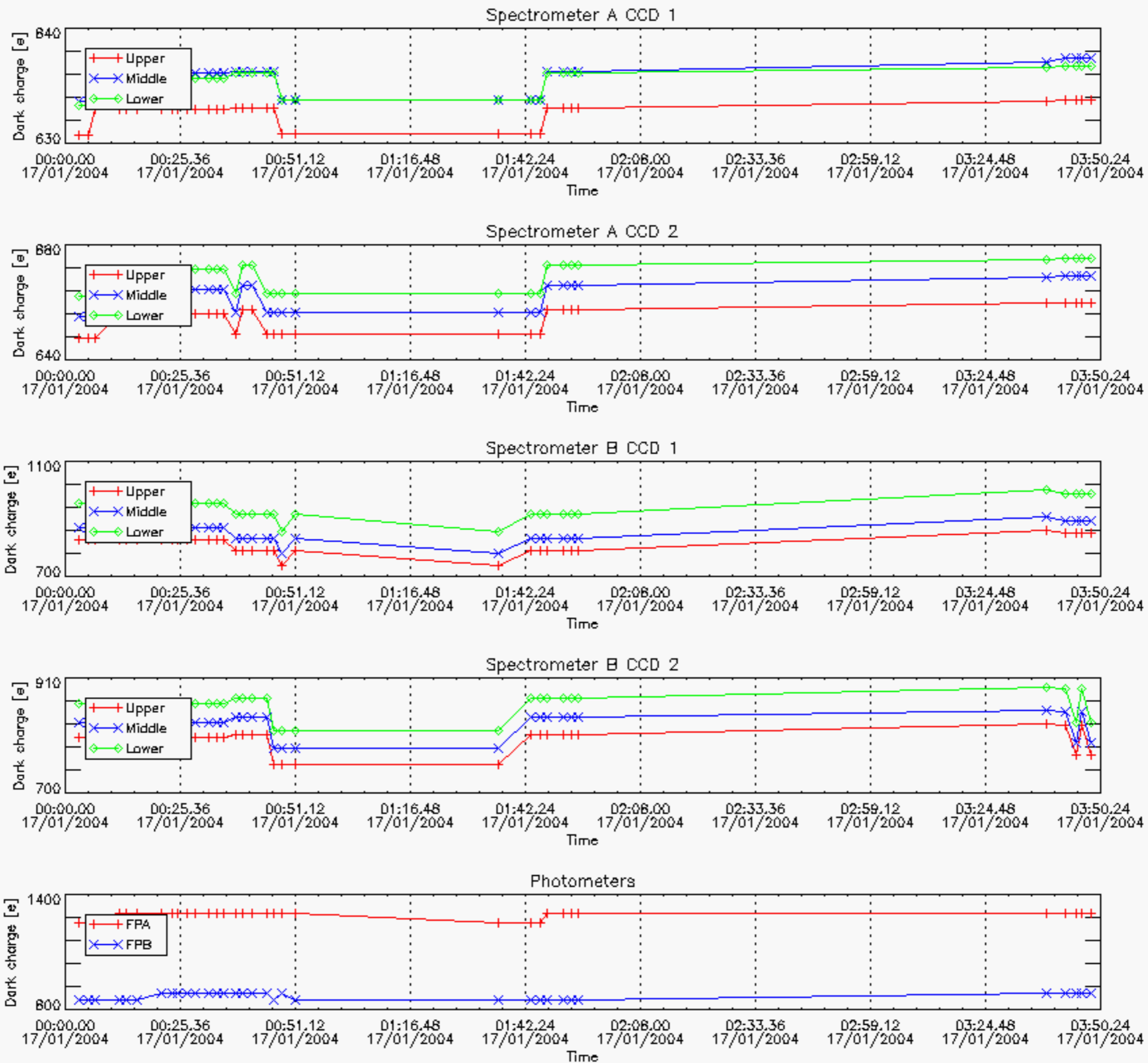
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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	1460.7	1447.1
St. deviation:	5.5765	6.8477	6.5746	7.8110
Maximum:	1656.0	1571.0	1503.0	1493.0
Minimum:	1445.0	1424.0	1431.0	1414.0
Number of data:	39100.	39100.	19100.	19100.

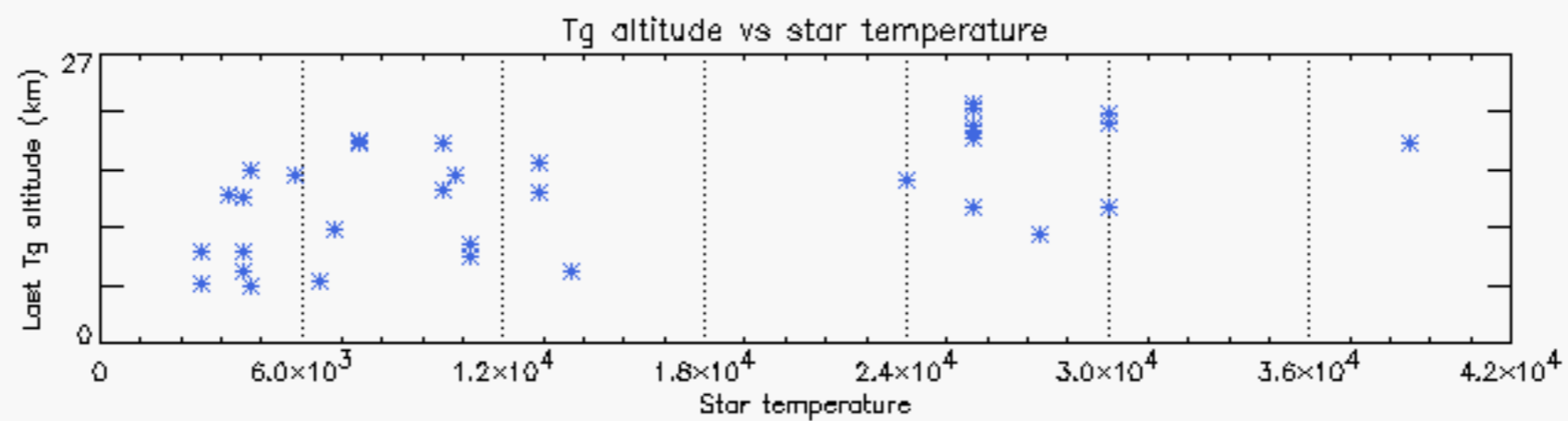
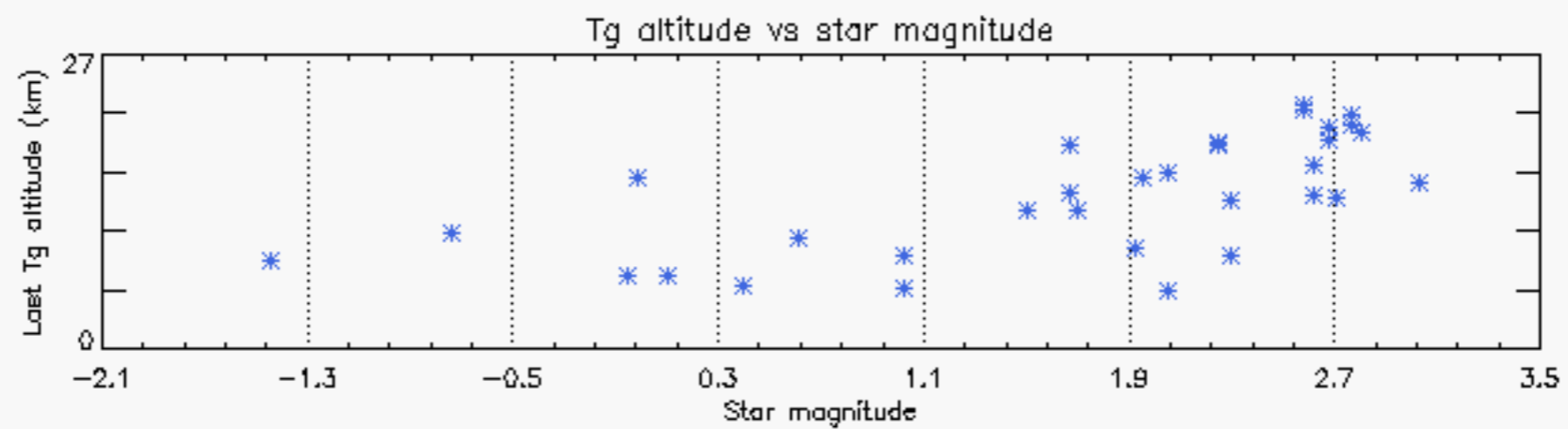
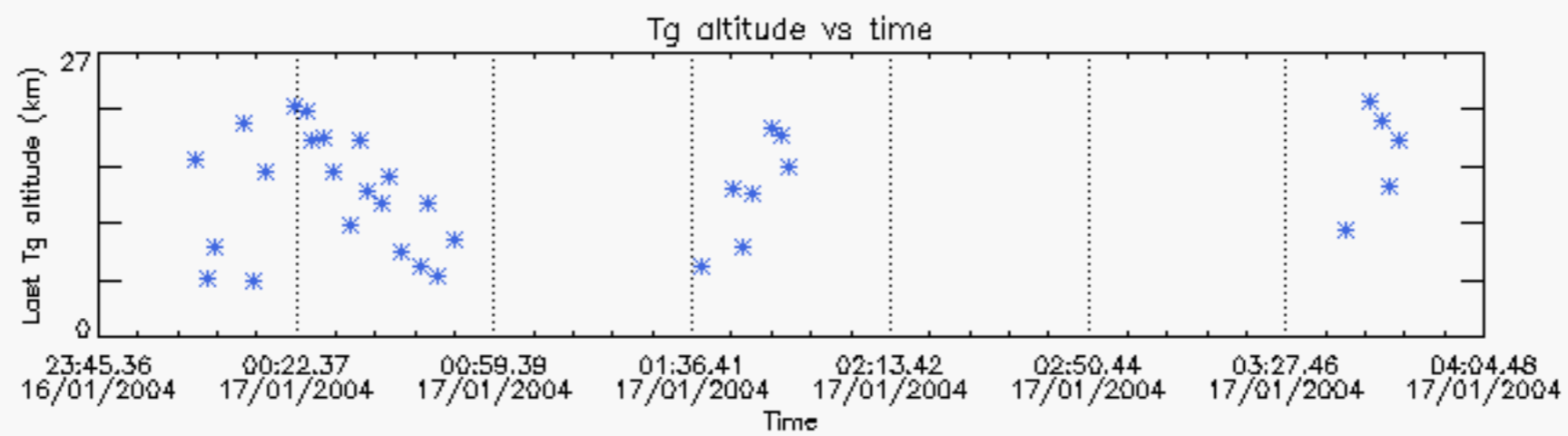




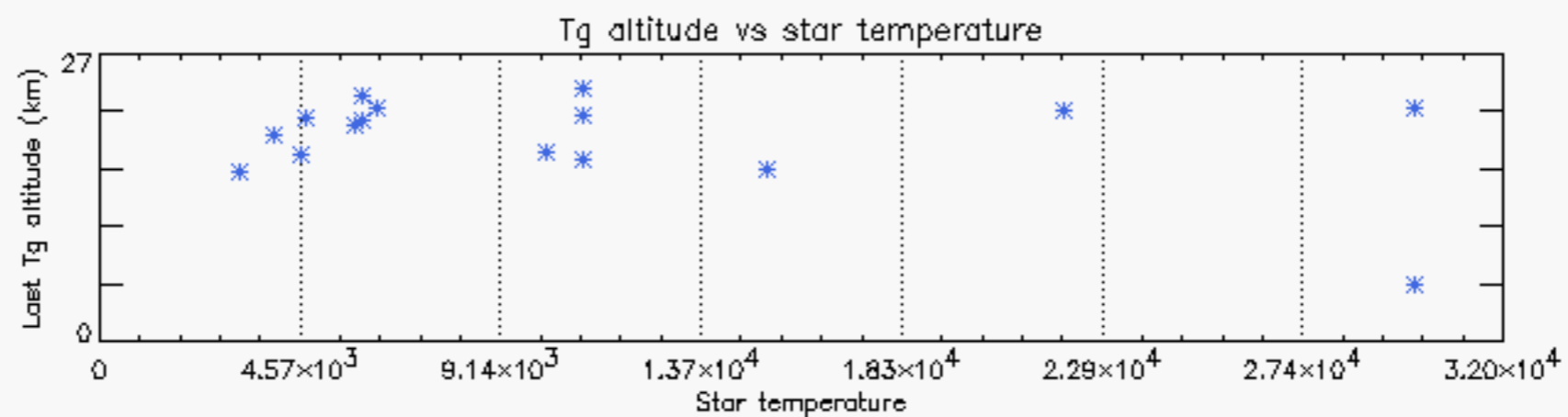
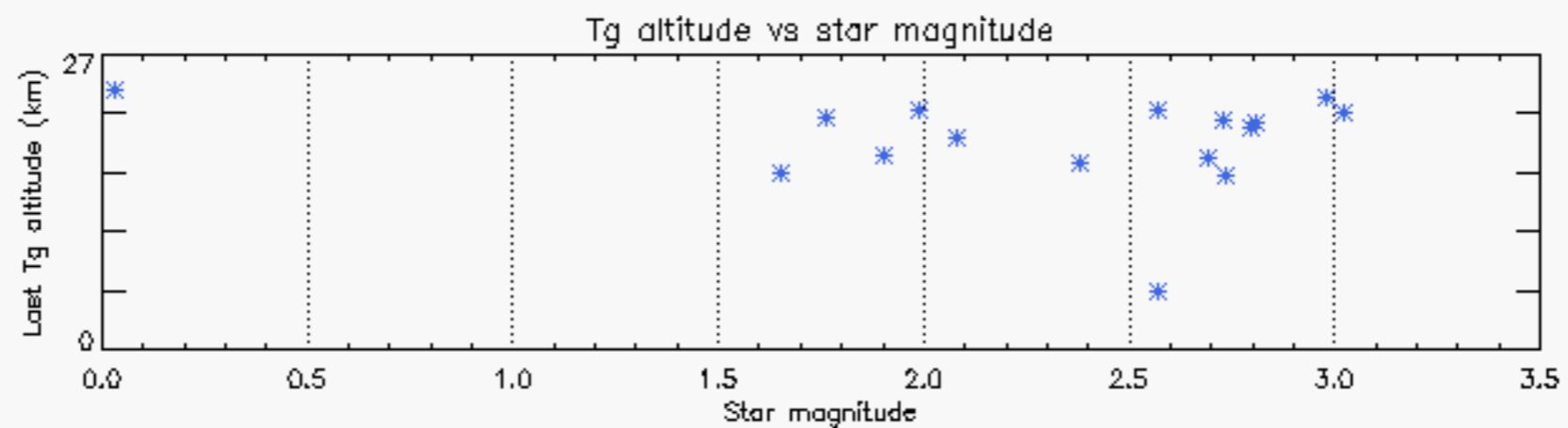
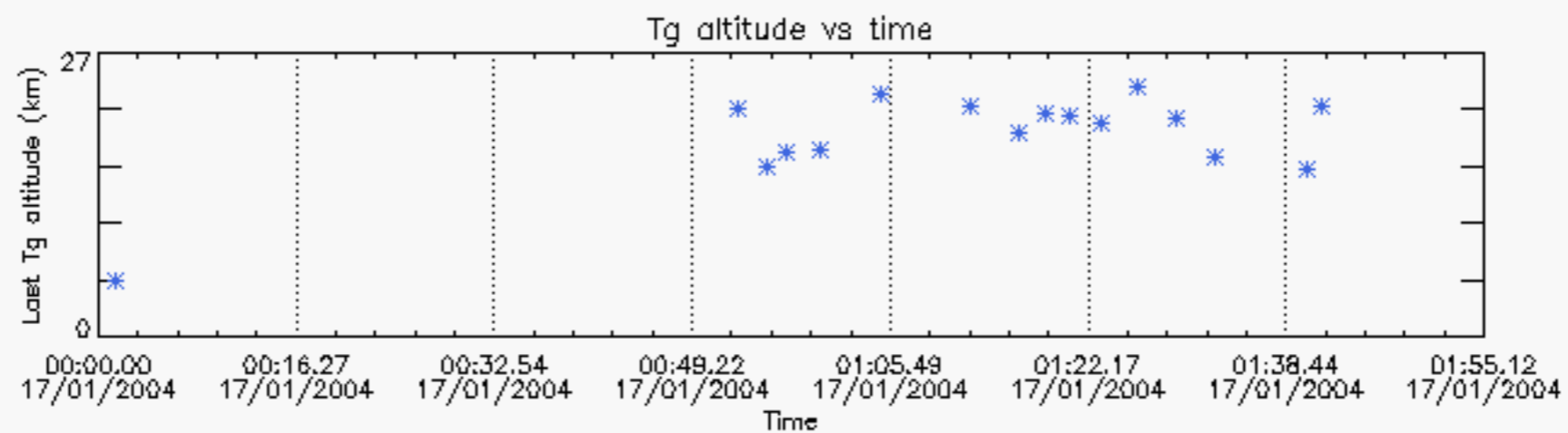




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040101_054855_000060682023_00034_09607_0545.N1

1;	-4268.0;	01-JAN-2004	05:48:55;	Dark	;	45.5;	7;	19Bet Ori	;	0.10;	14000;occ;	91;	0;	9607
2;	-4156.2;	01-JAN-2004	05:50:47;	Dark	;	43.5;	30;	46Eps Ori	;	1.69;	30000;occ;	87;	0;	9607
3;	-3940.7;	01-JAN-2004	05:54:22;	Dark	;	82.0;	8;	10Alp CMi	;	0.40;	6500;occ;	164;	0;	9607
4;	-3806.3;	01-JAN-2004	05:56:37;	Dark	;	50.0;	44;	24Gam Gem	;	1.93;	11000;occ;	100;	0;	9607
5;	-3708.3;	01-JAN-2004	05:58:15;	Bright;		47.0;	151;	13Mu Gem	;	2.89;	3000;occ;	94;	0;	9607
6;	-3565.2;	01-JAN-2004	06:00:38;	Bright;		39.5;	114;	3Iot Aur	;	2.69;	4600;occ;	79;	0;	9607
7;	-3468.9;	01-JAN-2004	06:02:14;	Bright;		38.0;	107;	37The Aur	;	2.65;	11000;occ;	76;	0;	9607
8;	-3344.2;	01-JAN-2004	06:04:19;	Bright;		41.0;	6;	13Alp Aur	;	0.08;	3400;occ;	82;	0;	9607
9;	-3237.9;	01-JAN-2004	06:06:05;	Bright;		38.0;	35;	33Alp Per	;	1.79;	6250;occ;	76;	0;	9607
10;	-3161.0;	01-JAN-2004	06:07:22;	Bright;		38.0;	160;	23Gam Per	;	2.93;	4700;occ;	76;	0;	9607
11;	-2613.9;	01-JAN-2004	06:16:29;	Bright;		36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	9607
12;	-2439.5;	01-JAN-2004	06:19:24;	Bright;		51.0;	36;	50Alp UMa	;	1.80;	6300;occ;	102;	0;	9607
13;	-2196.7;	01-JAN-2004	06:23:26;	Bright;		56.5;	87;	64Gam UMa	;	2.43;	11000;occ;	113;	0;	9607
14;	-2065.9;	01-JAN-2004	06:25:37;	Bright;		47.5;	55;	79Zet UMa	;	2.06;	10200;occ;	95;	0;	9607
15;	-1929.3;	01-JAN-2004	06:27:54;	Bright;		48.5;	39;	85Eta UMa	;	1.85;	24000;occ;	97;	0;	9607
16;	-1684.9;	01-JAN-2004	06:31:58;	Bright;		42.5;	180;	27Gam Boo	;	3.04;	8000;occ;	85;	0;	9607
17;	-1464.3;	01-JAN-2004	06:35:39;	Bright;		43.0;	83;		;	2.38;	11000;occ;	86;	0;	9607
18;	-1214.9;	01-JAN-2004	06:39:48;	Bright;		57.5;	111;	8Eta Boo	;	2.68;	6000;occ;	115;	0;	9607
19;	-1008.4;	01-JAN-2004	06:43:15;	Bright;		36.0;	120;	1Del Oph	;	2.73;	3200;occ;	72;	0;	9607
20;	-844.6;	01-JAN-2004	06:45:58;	Bright;		39.5;	104;	27Bet Lib	;	2.61;	13100;occ;	79;	0;	9607
21;	-685.5;	01-JAN-2004	06:48:37;	Dark	;	44.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	88;	0;	9607
22;	-483.7;	01-JAN-2004	06:51:59;	Dark	;	69.5;	15;	67Alp Vir	;	0.98;	28000;occ;	139;	0;	9607
23;	-282.4;	01-JAN-2004	06:55:21;	Dark	;	38.5;	109;	Bet Lup	;	2.68;	26000;occ;	77;	0;	9607
24;	-194.7;	01-JAN-2004	06:56:48;	Dark	;	41.5;	78;	Alp Lup	;	2.30;	28000;occ;	83;	0;	9607
25;	-106.2;	01-JAN-2004	06:58:17;	Dark	;	42.0;	95;	Zet Cen	;	2.55;	26000;occ;	84;	0;	9607
26;	-2.7;	01-JAN-2004	07:00:00;	Dark	;	43.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	87;	0;	9607
27;	226.9;	01-JAN-2004	07:03:50;	Dark	;	51.5;	12;	Alp1Cru	;	0.77;	30000;occ;	103;	0;	9608
28;	398.9;	01-JAN-2004	07:06:42;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	9608
29;	545.2;	01-JAN-2004	07:09:08;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	9608
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33;	976.8;	01-JAN-2004	07:16:20;	Dark	;	46.5;	2;	Alp Car	;	-0.74;	7000;occ;	93;	0;	9608
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4;	-3806.5;	01-JAN-2004	07:37:12;	Dark	;	50.0;	44;	24Gam Gem	;	1.93;	11000;occ;	100;	0;	9608
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6;	-3564.7;	01-JAN-2004	07:41:14;	Bright;		39.0;	114;	3Iot Aur	;	2.69;	4600;occ;	78;	0;	9608
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13;	-2196.4;	01-JAN-2004	08:04:03;	Bright;		55.0;	87;	64Gam UMa	;	2.43;	11000;occ;	110;	0;	9608
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31; 580.2; 08-JAN-2004 06:49:35; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0; 9708
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33; 765.4; 08-JAN-2004 06:52:40; Dark ; 49.0; 41; Eps Car ; 1.86; 4100;occ; 98; 0; 9708
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37; 1364.6; 08-JAN-2004 07:02:39; Dark ; 47.0; 23; 21Eps CMa ; 1.50; 26000;occ; 94; 0; 9708
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12;-2507.2; 08-JAN-2004 07:38:43; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0; 9708
13;-2358.0; 08-JAN-2004 07:41:13; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0; 9708
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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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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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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
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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
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
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2;-4245.1; 11-JAN-2004 07:15:30; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0; 9751
3;-4141.5; 11-JAN-2004 07:17:13; Dark ; 38.0; 30; 46Eps Ori ; 1.69; 30000;occ; 76; 0; 9751
4;-4005.5; 11-JAN-2004 07:19:29; Dark ; 60.0; 8; 10Alp CMi ; 0.40; 6500;occ; 120; 0; 9751
5;-3840.9; 11-JAN-2004 07:22:14; Dark ; 44.0; 44; 24Gam Gem ; 1.93; 11000;occ; 88; 0; 9751
6;-3739.2; 11-JAN-2004 07:23:56; Bright; 45.0; 151; 13Mu Gem ; 2.89; 3000;occ; 90; 0; 9751
7;-3639.2; 11-JAN-2004 07:25:36; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0; 9751
8;-3550.6; 11-JAN-2004 07:27:04; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0; 9751
9;-3360.7; 11-JAN-2004 07:30:14; Bright; 37.5; 42; 34Bet Aur ; 1.90; 10200;occ; 75; 0; 9751
10;-3244.1; 11-JAN-2004 07:32:11; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0; 9751
11;-3106.2; 11-JAN-2004 07:34:28; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0; 9751
12;-2612.7; 11-JAN-2004 07:42:42; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0; 9751
13;-2507.4; 11-JAN-2004 07:44:27; Bright; 56.0; 82; 48Bet UMa ; 2.37; 10600;occ; 112; 0; 9751
14;-2364.0; 11-JAN-2004 07:46:51; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0; 9751
15;-2193.9; 11-JAN-2004 07:49:41; Bright; 52.0; 32; 77Eps UMa ; 1.76; 11000;occ; 104; 0; 9751
16;-1968.4; 11-JAN-2004 07:53:26; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0; 9751
17;-1788.0; 11-JAN-2004 07:56:27; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0; 9751
18;-1683.5; 11-JAN-2004 07:58:11; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0; 9751
19;-1431.6; 11-JAN-2004 08:02:23; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0; 9751
20;-1307.0; 11-JAN-2004 08:04:28; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0; 9751
21;-1111.1; 11-JAN-2004 08:07:44; Bright; 78.5; 111; 8Eta Boo ; 2.68; 6000;occ; 157; 0; 9751
22;-878.9; 11-JAN-2004 08:11:36; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0; 9751
23;-612.1; 11-JAN-2004 08:16:03; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0; 9751
24;-307.0; 11-JAN-2004 08:21:08; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0; 9751
25;-210.2; 11-JAN-2004 08:22:45; Dark ; 40.5; 109; Bet Lup ; 2.68; 26000;occ; 81; 0; 9751
26;-119.7; 11-JAN-2004 08:24:15; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0; 9751
27; 247.1; 11-JAN-2004 08:30:22; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0; 9752
28; 342.4; 11-JAN-2004 08:31:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9752
29; 501.4; 11-JAN-2004 08:34:36; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9752
30; 594.8; 11-JAN-2004 08:36:10; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0; 9752
31; 701.3; 11-JAN-2004 08:37:56; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0; 9752
32; 782.6; 11-JAN-2004 08:39:17; Dark ; 53.0; 41; Eps Car ; 1.86; 4100;occ; 106; 0; 9752
33; 1010.7; 11-JAN-2004 08:43:05; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0; 9752
34; 1110.4; 11-JAN-2004 08:44:45; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0; 9752
35; 1217.8; 11-JAN-2004 08:46:33; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0; 9752
36; 1375.0; 11-JAN-2004 08:49:10; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0; 9752
37; 1461.6; 11-JAN-2004 08:50:36; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0; 9752
38; 1598.7; 11-JAN-2004 08:52:53; Dark ; 46.5; 1; 9Alp CMA ; -1.44; 11000;occ; 93; 0; 9752

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3;	-4244.9;	11-JAN-2004	10:36:42;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;occ;	104;	0;	9753
4;	-4141.3;	11-JAN-2004	10:38:25;	Dark	;	40.5;	30;	46Eps Ori	;	1.69;	30000;occ;	81;	0;	9753
5;	-4006.3;	11-JAN-2004	10:40:40;	Dark	;	58.5;	8;	10Alp CMi	;	0.40;	6500;occ;	117;	0;	9753
6;	-3840.9;	11-JAN-2004	10:43:26;	Dark	;	46.0;	44;	24Gam Gem	;	1.93;	11000;occ;	92;	0;	9753
7;	-3739.5;	11-JAN-2004	10:45:07;	Bright;		42.0;	151;	13Mu Gem	;	2.89;	3000;occ;	84;	0;	9753
8;	-3639.1;	11-JAN-2004	10:46:47;	Bright;		39.0;	28;	12Bet Tau	;	1.65;	15200;occ;	78;	0;	9753
9;	-3550.4;	11-JAN-2004	10:48:16;	Bright;		38.0;	114;	3Iot Aur	;	2.69;	4600;occ;	76;	0;	9753
10;	-3361.3;	11-JAN-2004	10:51:25;	Bright;		39.0;	42;	34Bet Aur	;	1.90;	10200;occ;	78;	0;	9753
11;	-3243.7;	11-JAN-2004	10:53:23;	Bright;		37.0;	175;	39Del Per	;	3.01;	19400;occ;	74;	0;	9753
12;	-3105.7;	11-JAN-2004	10:55:41;	Bright;		36.5;	160;	23Gam Per	;	2.93;	4700;occ;	73;	0;	9753
13;	-2613.1;	11-JAN-2004	11:03:53;	Bright;		38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;	9753
14;	-2509.2;	11-JAN-2004	11:05:37;	Bright;		53.0;	82;	48Bet UMA	;	2.37;	10600;occ;	106;	0;	9753
15;	-2364.3;	11-JAN-2004	11:08:02;	Bright;		40.0;	60;	7Bet UMi	;	2.08;	3950;occ;	80;	0;	9753
16;	-2194.7;	11-JAN-2004	11:10:52;	Bright;		53.0;	32;	77Eps UMA	;	1.76;	11000;occ;	106;	0;	9753
17;	-1968.1;	11-JAN-2004	11:14:38;	Bright;		35.5;	130;	23Bet Dra	;	2.80;	5800;occ;	71;	0;	9753
18;	-1787.9;	11-JAN-2004	11:17:39;	Bright;		35.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	71;	0;	9753
19;	-1683.2;	11-JAN-2004	11:19:23;	Bright;		49.0;	180;	27Gam Boo	;	3.04;	8000;occ;	98;	0;	9753
20;	-1430.4;	11-JAN-2004	11:23:36;	Bright;		54.5;	83;		;	2.38;	11000;occ;	109;	0;	9753
21;	-1307.1;	11-JAN-2004	11:25:39;	Bright;		35.5;	59;	55Alp Oph	;	2.08;	8900;occ;	71;	0;	9753
22;	-1108.5;	11-JAN-2004	11:28:58;	Bright;		78.5;	111;	8Eta Boo	;	2.68;	6000;occ;	157;	0;	9753
23;	-878.6;	11-JAN-2004	11:32:48;	Bright;		52.0;	98;	13Zet Oph	;	2.57;	30000;occ;	104;	0;	9753
24;	-611.5;	11-JAN-2004	11:37:15;	Dark	;	46.0;	16;	21Alp Sco	;	1.02;	3000;occ;	92;	0;	9753
25;	-306.1;	11-JAN-2004	11:42:20;	Dark	;	38.5;	131;	Gam Lup	;	2.80;	26000;occ;	77;	0;	9753
26;	-209.2;	11-JAN-2004	11:43:57;	Dark	;	41.0;	109;	Bet Lup	;	2.68;	26000;occ;	82;	0;	9753
27;	-118.7;	11-JAN-2004	11:45:28;	Dark	;	40.5;	78;	Alp Lup	;	2.30;	28000;occ;	81;	0;	9753
28;	247.8;	11-JAN-2004	11:51:34;	Dark	;	42.5;	20;	Bet Cru	;	1.25;	30000;occ;	85;	0;	9754
29;	344.4;	11-JAN-2004	11:53:11;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	9754
30;	502.5;	11-JAN-2004	11:55:49;	Dark	;	40.5;	124;	The Car	;	2.76;	30000;occ;	81;	0;	9754
31;	595.6;	11-JAN-2004	11:57:22;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	9754
32;	701.7;	11-JAN-2004	11:59:08;	Dark	;	50.0;	71;	Iot Car	;	2.25;	7700;occ;	100;	0;	9754
33;	782.9;	11-JAN-2004	12:00:29;	Dark	;	51.0;	41;	Eps Car	;	1.86;	4100;occ;	102;	0;	9754
34;	1010.6;	11-JAN-2004	12:04:17;	Dark	;	46.0;	2;	Alp Car	;	-0.74;	7000;occ;	92;	0;	9754
35;	1111.4;	11-JAN-2004	12:05:58;	Dark	;	42.0;	70;	Zet Pup	;	2.25;	39000;occ;	84;	0;	9754
36;	1217.7;	11-JAN-2004	12:07:44;	Dark	;	46.0;	117;	Pi Pup	;	2.71;	3800;occ;	92;	0;	9754
37;	1375.0;	11-JAN-2004	12:10:21;	Dark	;	43.0;	23;	21Eps CMA	;	1.50;	26000;occ;	86;	0;	9754
38;	1461.4;	11-JAN-2004	12:11:48;	Dark	;	43.0;	179;	240mi2CMA	;	3.03;	24000;occ;	86;	0;	9754

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3;	-4573.6;	11-JAN-2004	17:13:37;	Dark	;	41.5;	179;	240mi2CMA	;	3.03;	24000;occ;	83;	0;	9757
4;	-4436.8;	11-JAN-2004	17:15:53;	Dark	;	54.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	108;	0;	9757
5;	-4244.8;	11-JAN-2004	17:19:05;	Dark	;	48.0;	7;	19Bet Ori	;	0.10;	14000;occ;	96;	0;	9757
6;	-4141.4;	11-JAN-2004	17:20:49;	Dark	;	43.5;	30;	46Eps Ori	;	1.69;	30000;occ;	87;	0;	9757
7;	-4007.3;	11-JAN-2004	17:23:03;	Dark	;	60.0;	8;	10Alp CMi	;	0.40;	6500;occ;	120;	0;	9757
8;	-3842.0;	11-JAN-2004	17:25:48;	Dark	;	44.0;	44;	24Gam Gem	;	1.93;	11000;occ;	88;	0;	9757
9;	-3740.1;	11-JAN-2004	17:27:30;	Bright;		43.5;	151;	13Mu Gem	;	2.89;	3000;occ;	87;	0;	9757
10;	-3639.6;	11-JAN-2004	17:29:11;	Bright;		39.0;	28;	12Bet Tau	;	1.65;	15200;occ;	78;	0;	9757
11;	-3549.8;	11-JAN-2004	17:30:40;	Bright;		38.5;	114;	3Iot Aur	;	2.69;	4600;occ;	77;	0;	9757
12;	-3361.7;	11-JAN-2004	17:33:48;	Bright;		37.5;	42;	34Bet Aur	;	1.90;	10200;occ;	75;	0;	9757
13;	-3242.3;	11-JAN-2004	17:35:48;	Bright;		37.5;	175;	39Del Per	;	3.01;	19400;occ;	75;	0;	9757
14;	-3103.8;	11-JAN-2004	17:38:06;	Bright;		37.0;	160;	23Gam Per	;	2.93;	4700;occ;	74;	0;	9757
15;	-2612.7;	11-JAN-2004	17:46:18;	Bright;		39.0;	49;	1Alp UMi	;	1.99;	6300;occ;	78;	0;	9757
16;	-2512.9;	11-JAN-2004	17:47:57;	Bright;		55.0;	82;	48Bet UMA	;	2.37;	10600;occ;	110;	0;	9757
17;	-2364.7;	11-JAN-2004	17:50:26;	Bright;		36.0;	60;	7Bet UMi	;	2.08;	3950;occ;	72;	0;	9757
18;	-2197.4;	11-JAN-2004	17:53:13;	Bright;		53.0;	32;	77Eps UMA	;	1.76;	11000;occ;	106;	0;	9757
19;	-1967.8;	11-JAN-2004	17:57:02;	Bright;		37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	9757
20;	-1786.7;	11-JAN-2004	18:00:04;	Bright;		38.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	76;	0;	9757
21;	-1683.7;	11-JAN-2004	18:01:47;	Bright;		49.5;	180;	27Gam Boo	;	3.04;	8000;occ;	99;	0;	9757
22;	-1430.0;	11-JAN-2004	18:06:00;	Bright;		54.0;	83;		;	2.38;	11000;occ;	108;	0;	9757
23;	-1305.9;	11-JAN-2004	18:08:04;	Bright;		34.0;	59;	55Alp Oph	;	2.08;	8900;occ;	68;	0;	9757
24;	-1105.4;	11-JAN-2004	18:11:25;	Dark	;	84.5;	111;	8Eta Boo	;	2.68;	6000;occ;	169;	0;	9757
25;	-877.1;	11-JAN-2004	18:15:13;	Bright;		52.0;	98;	13Zet Oph	;	2.57;	30000;occ;	104;	0;	9757
26;	-762.4;	11-JAN-2004	18:17:08;	Dark	;	48.0;	104;	27Bet Lib	;	2.61;	13100;occ;	96;	0;	9757
27;	-610.1;	11-JAN-2004	18:19:40;	Dark	;	52.0;	16;	21Alp Sco	;	1.02;	3000;occ;	104;	0;	9757
28;	-304.3;	11-JAN-2004	18:24:46;	Dark	;	39.5;	131;	Gam Lup	;	2.80;	26000;occ;	79;	0;	9757

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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
 4; -3841.0; 11-JAN-2004 09:02:50; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0; 9752
 5; -3739.3; 11-JAN-2004 09:04:31; Bright; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0; 9752
 6; -3639.1; 11-JAN-2004 09:06:11; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0; 9752
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 11; -2612.7; 11-JAN-2004 09:23:18; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0; 9752
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 17; -1683.5; 11-JAN-2004 09:38:47; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0; 9752
 18; -1430.6; 11-JAN-2004 09:43:00; Bright; 51.5; 83; ; 2.38; 11000;occ; 103; 0; 9752
 19; -1306.9; 11-JAN-2004 09:45:04; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0; 9752
 20; -1110.1; 11-JAN-2004 09:48:20; Bright; 80.5; 111; 8Eta Boo ; 2.68; 6000;occ; 161; 0; 9752
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12;-2420.7; 31-JAN-2004 12:18:55; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;10040
13;-2251.1; 31-JAN-2004 12:21:45; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;10040
14;-2138.8; 31-JAN-2004 12:23:37; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;10040
15;-1950.7; 31-JAN-2004 12:26:45; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;10040
16;-1734.6; 31-JAN-2004 12:30:21; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;10040
17;-1553.0; 31-JAN-2004 12:33:23; Bright; 45.0; 133; 40Zet Her ; 2.81; 6000;occ; 90; 0;10040
18;-1312.8; 31-JAN-2004 12:37:23; Bright; 98.5; 83; ; 2.38; 11000;occ; 197; 0;10040
19;-1116.9; 31-JAN-2004 12:40:39; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;10040
20; -913.2; 31-JAN-2004 12:44:02; Dark ; 71.5; 102; 24Alp Ser ; 2.60; 4250;occ; 143; 0;10040
21; -730.8; 31-JAN-2004 12:47:05; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;10040
22; -564.3; 31-JAN-2004 12:49:51; Dark ; 42.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 85; 0;10040
23; -474.8; 31-JAN-2004 12:51:21; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;10040
24; -336.0; 31-JAN-2004 12:53:40; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;10040
25; -216.2; 31-JAN-2004 12:55:39; Dark ; 70.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 140; 0;10040
26; 3.3; 31-JAN-2004 12:59:19; Dark ; 46.5; 109; Bet Lup ; 2.68; 26000;occ; 93; 0;10041
27; 185.7; 31-JAN-2004 13:02:21; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;10041
28; 271.7; 31-JAN-2004 13:03:47; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10041
29; 461.2; 31-JAN-2004 13:06:57; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;10041
30; 579.3; 31-JAN-2004 13:08:55; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;10041
31; 674.6; 31-JAN-2004 13:10:30; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;10041
32; 870.1; 31-JAN-2004 13:13:46; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 0;10041
33; 1072.4; 31-JAN-2004 13:17:08; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;10041
34; 1200.1; 31-JAN-2004 13:19:16; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;10041
35; 1282.9; 31-JAN-2004 13:20:38; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;10041
36; 1429.2; 31-JAN-2004 13:23:05; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;10041
37; 1509.9; 31-JAN-2004 13:24:26; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;10041

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