

GOMOS Daily Report 16-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 07:11:19
Data source version	<Any version>
Start time of products	16-JAN-2004 (16JAN2004 00:00:00)
Stop time of products	17-JAN-2004 (17JAN2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	36
Nb of prods with errors	1

2. Summary of products arrived in PCF

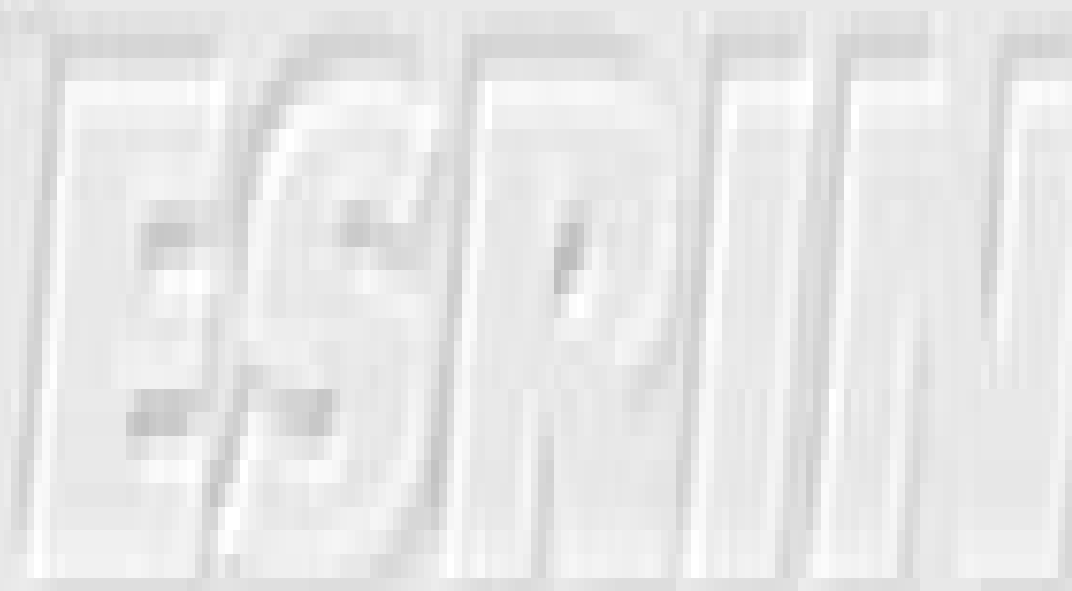
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

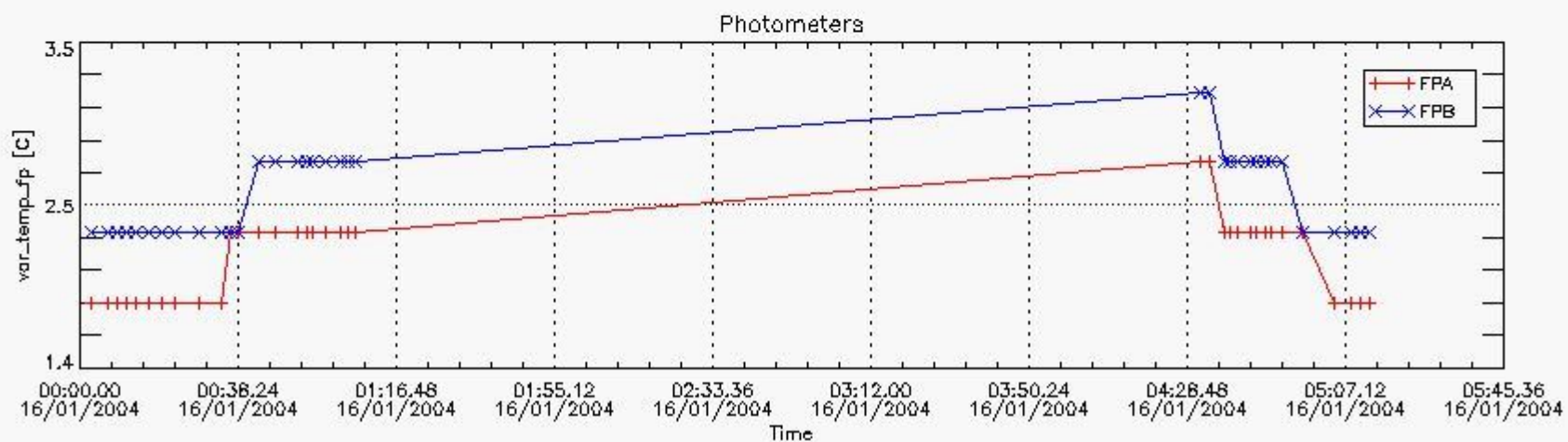
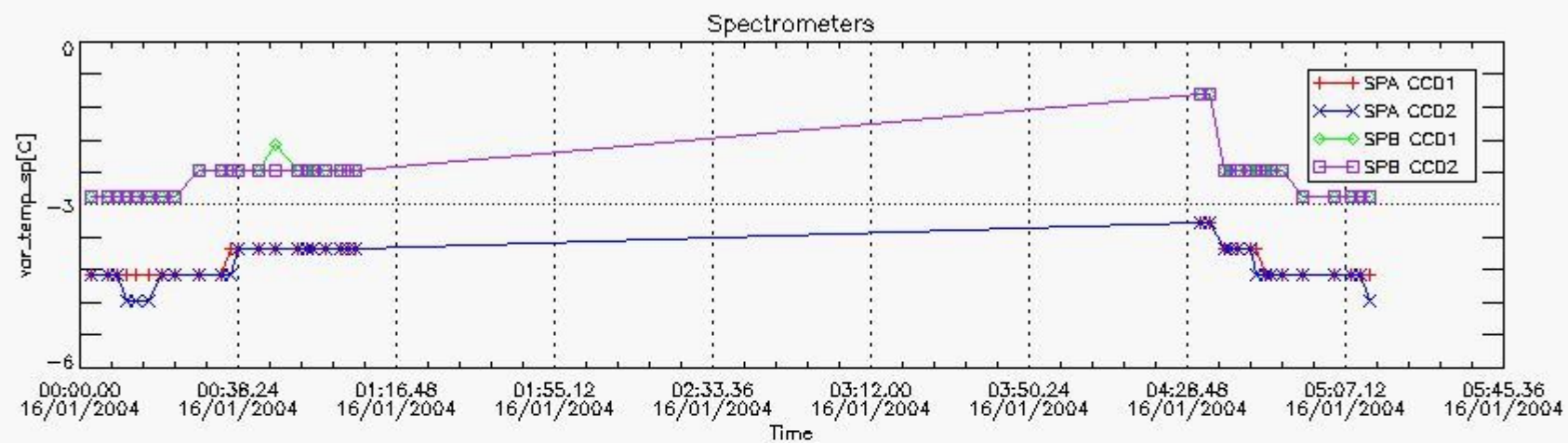
[2.2 Summary of processed GOM_TRA_1P products.](#)

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_1PNPDE20040116_000247_000000372023_00245_09818_0013.N1	16-JAN-2004 00:02:47	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	9818	No
GOM_TRA_1PNPDE20040116_000645_000000422023_00245_09818_0014.N1	16-JAN-2004 00:06:45	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	9818	No
GOM_TRA_1PNPDE20040116_000908_000000522023_00245_09818_0015.N1	16-JAN-2004 00:09:08	Bright	52.000	32	77Eps UMa	1.7630	11000.	104	9818	No
GOM_TRA_1PNPDE20040116_001105_000000392023_00245_09818_0016.N1	16-JAN-2004 00:11:05	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	9818	No
GOM_TRA_1PNPDE20040116_001337_000000412023_00245_09818_0017.N1	16-JAN-2004 00:13:37	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	9818	No
GOM_TRA_1PNPDE20040116_001644_000000402023_00245_09818_0018.N1	16-JAN-2004 00:16:44	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	9818	No
GOM_TRA_1PNPDE20040116_001957_000000392023_00245_09818_0019.N1	16-JAN-2004 00:19:57	Bright	38.500	133	40Zet Her	2.8070	6000.0	77	9818	No
GOM_TRA_1PNPDE20040116_002249_000000582023_00245_09818_0020.N1	16-JAN-2004 00:22:49	Bright	58.000	83		2.3780	11000.	116	9818	No
GOM_TRA_1PNPDE20040116_002906_000000982023_00245_09818_0021.N1	16-JAN-2004 00:29:06	Dark	98.000	111	8Eta Boo	2.6800	6000.0	196	9818	No
GOM_TRA_1PNPDE20040116_003423_000000492023_00245_09818_0022.N1	16-JAN-2004 00:34:23	Dark	49.000	104	27Bet Lib	2.6140	13100.	98	9818	No
GOM_TRA_1PNPDE20040116_003630_000000502023_00245_09818_0023.N1	16-JAN-2004 00:36:30	Dark	50.000	16	21Alp Sco	1.0200	3000.0	100	9818	No
GOM_TRA_1PNPDE20040116_003811_000000422023_00245_09818_0024.N1	16-JAN-2004 00:38:11	Dark	42.000	75	26Eps Sco	2.2910	4250.0	84	9818	No
GOM_TRA_1PNPDE20040116_004331_000000432023_00245_09818_0025.N1	16-JAN-2004 00:43:31	Dark	43.000	109	Bet Lup	2.6770	26000.	86	9818	No
GOM_TRA_1PNPDE20040116_004737_000000432023_00246_09819_0026.N1	16-JAN-2004 00:47:37	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	9819	No
GOM_TRA_1PNPDE20040116_005252_000000482023_00246_09819_0027.N1	16-JAN-2004 00:52:52	Dark	47.500	99	Del Cen	2.5750	26000.	95	9819	No
GOM_TRA_1PNPDE20040116_005514_000000422023_00246_09819_0028.N1	16-JAN-2004 00:55:14	Dark	42.000	124	The Car	2.7640	30000.	84	9819	No
GOM_TRA_1PNPDE20040116_005634_000000442023_00246_09819_0029.N1	16-JAN-2004 00:56:34	Dark	43.500	29	Bet Car	1.6720	10200.	87	9819	No
GOM_TRA_1PNPDE20040116_005944_000000542023_00246_09819_0030.N1	16-JAN-2004 00:59:44	Dark	54.000	41	Eps Car	1.8600	4100.0	108	9819	No
GOM_TRA_1PNPDE20040116_010323_000000472023_00246_09819_0031.N1	16-JAN-2004 01:03:23	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	9819	No
GOM_TRA_1PNPDE20040116_010515_000000472023_00246_09819_0032.N1	16-JAN-2004 01:05:15	Dark	46.500	70	Zet Pup	2.2460	39000.	93	9819	No
GOM_TRA_1PNPDE20040116_010655_000000482023_00246_09819_0033.N1	16-JAN-2004 01:06:55	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	9819	No
GOM_TRA_1PNPDE20040116_043207_000000412023_00248_09821_0000.N1	16-JAN-2004 04:32:07	Dark	40.500	179	24Omi2CMa	3.0320	24000.	81	9821	Yes
GOM_TRA_1PNPDE20040116_043420_000000522023_00248_09821_0000.N1	16-JAN-2004 04:34:20	Dark	52.000	1	9Alp CMa	-1.4400	11000.	104	9821	No
GOM_TRA_1PNPDE20040116_043737_000000522023_00248_09821_0001.N1	16-JAN-2004 04:37:37	Dark	52.000	7	19Bet Ori	0.10000	14000.	104	9821	No
GOM_TRA_1PNPDE20040116_043917_000000412023_00248_09821_0003.N1	16-JAN-2004 04:39:17	Dark	41.000	30	46Eps Ori	1.6940	30000.	82	9821	No
GOM_TRA_1PNPDE20040116_044105_000000622023_00248_09821_0003.N1	16-JAN-2004 04:41:05	Dark	62.000	8	10Alp CMi	0.40000	6500.0	124	9821	No
GOM_TRA_1PNPDE20040116_044400_000000452023_00248_09821_0004.N1	16-JAN-2004 04:44:00	Dark	44.500	44	24Gam Gem	1.9280	11000.	89	9821	No
GOM_TRA_1PNPDE20040116_044527_000000372023_00248_09821_0005.N1	16-JAN-2004 04:45:27	Bright	36.500	176	23Zet Tau	3.0200	22000.	73	9821	No
GOM_TRA_1PNPDE20040116_044736_000000392023_00248_09821_0006.N1	16-JAN-2004 04:47:36	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	9821	No
GOM_TRA_1PNPDE20040116_044912_000000522023_00248_09821_0007.N1	16-JAN-2004 04:49:12	Bright	52.000	114	3Iot Aur	2.6930	4600.0	104	9821	No
GOM_TRA_1PNPDE20040116_045203_000000382023_00248_09821_0008.N1	16-JAN-2004 04:52:03	Bright	38.000	42	34Bet Aur	1.9000	10200.	76	9821	No
GOM_TRA_1PNPDE20040116_045643_000001122023_00248_09821_0009.N1	16-JAN-2004 04:56:43	Bright	112.00	166	17Eps Leo	2.9800	6000.0	224	9821	No
GOM_TRA_1PNPDE20040116_050436_000000382023_00248_09821_0010.N1	16-JAN-2004 05:04:36	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	9821	No
GOM_TRA_1PNPDE20040116_050833_000000402023_00248_09821_0011.N1	16-JAN-2004 05:08:33	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	9821	No
GOM_TRA_1PNPDE20040116_051053_000000542023_00248_09821_0013.N1	16-JAN-2004 05:10:53	Bright	54.000	32	77Eps UMa	1.7630	11000.	108	9821	No
GOM_TRA_1PNPDE20040116_051253_000000392023_00248_09821_0013.N1	16-JAN-2004 05:12:53	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	9821	No

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





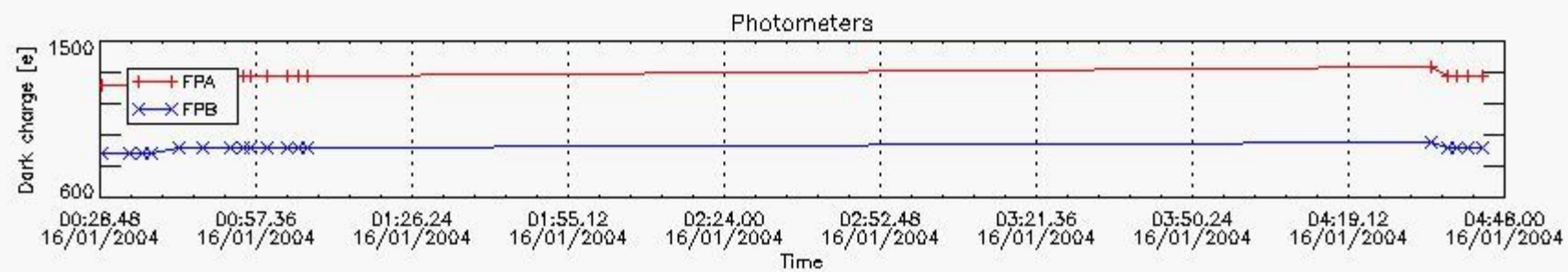
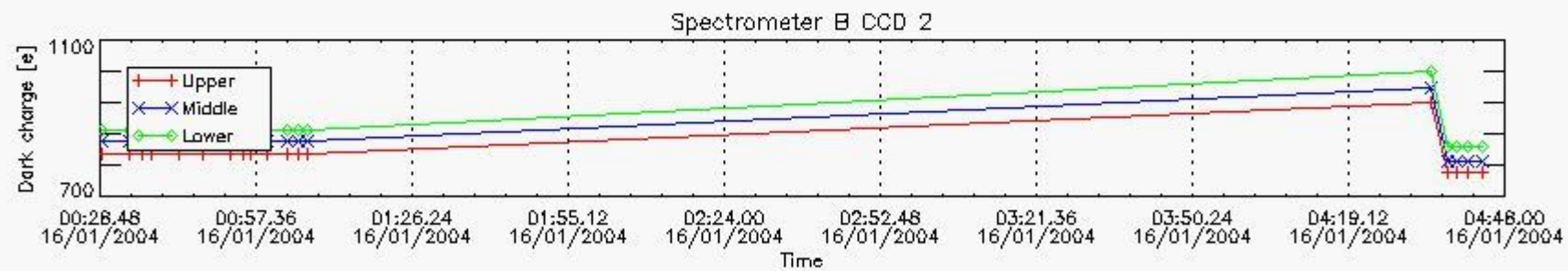
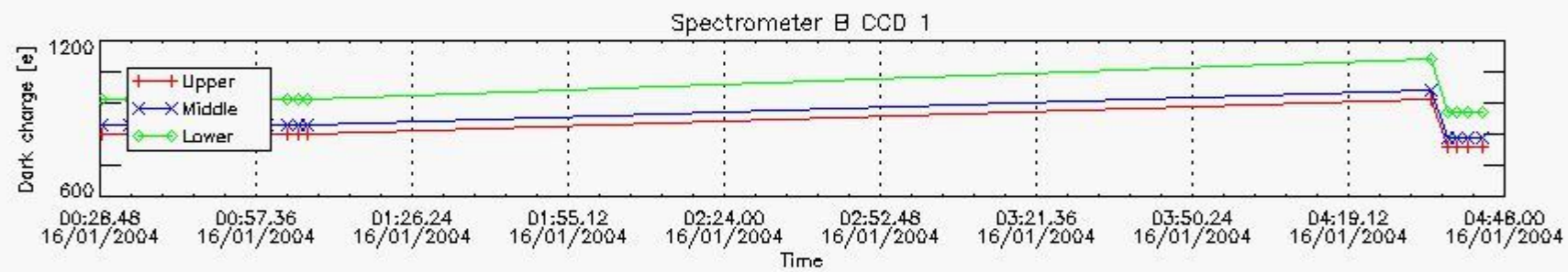
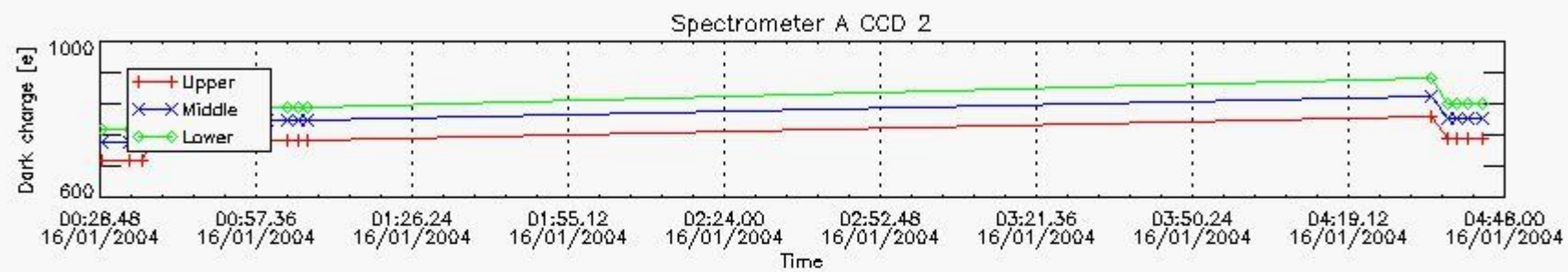
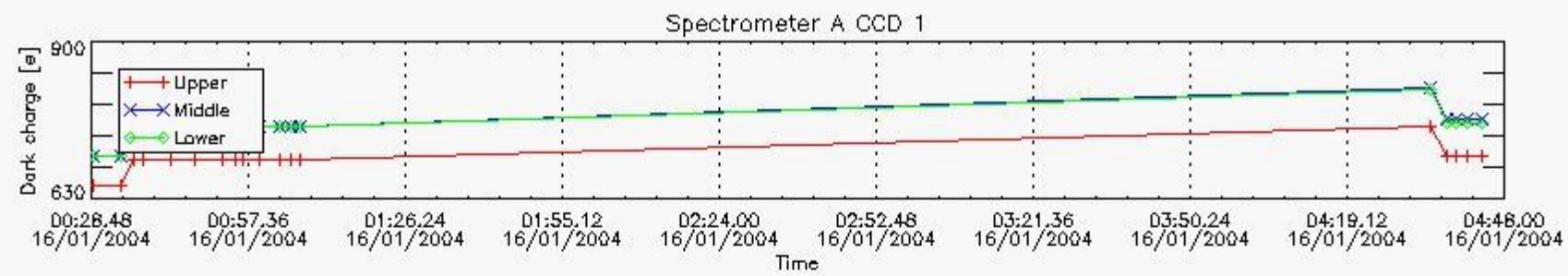
4. Overview of dark signal processing per product

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

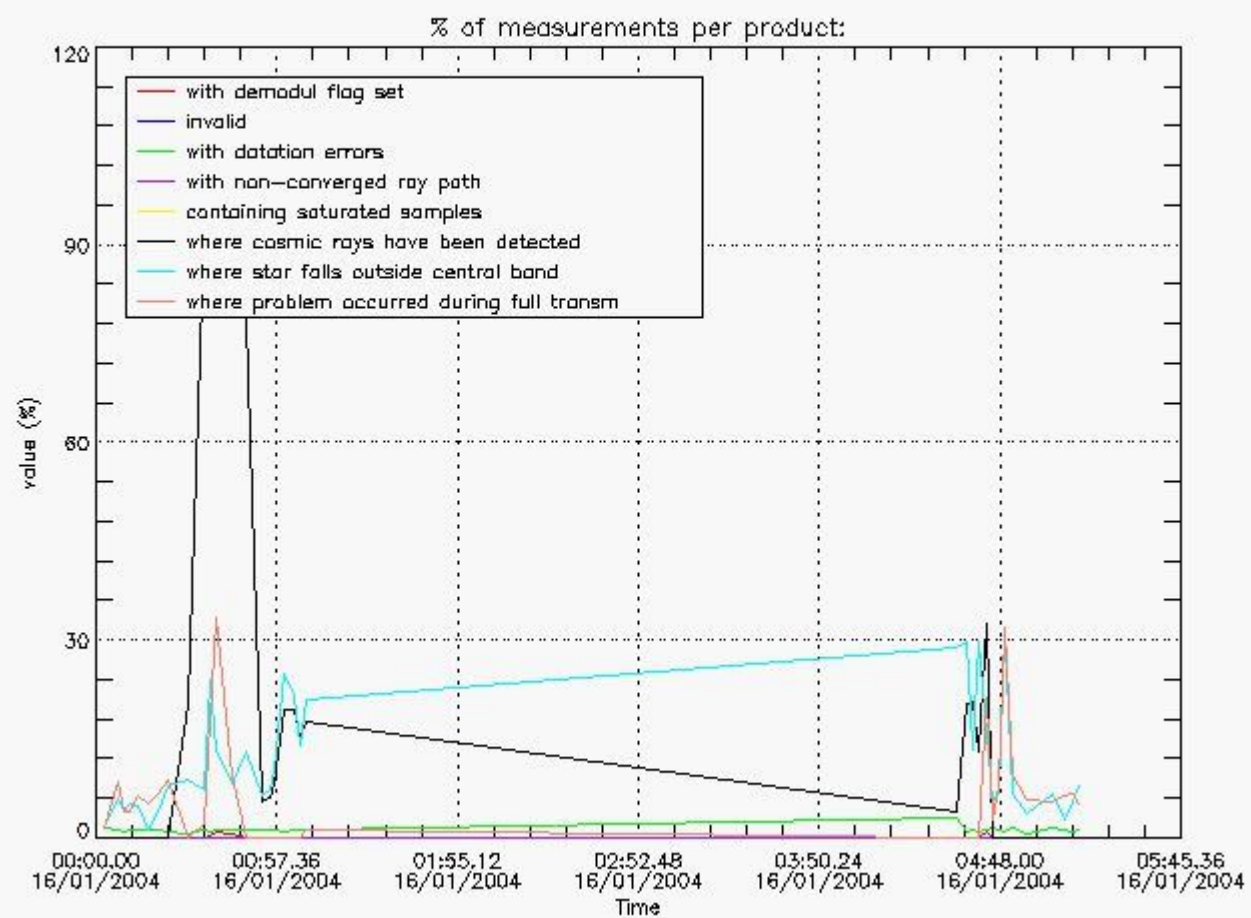


5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	17.1429 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product



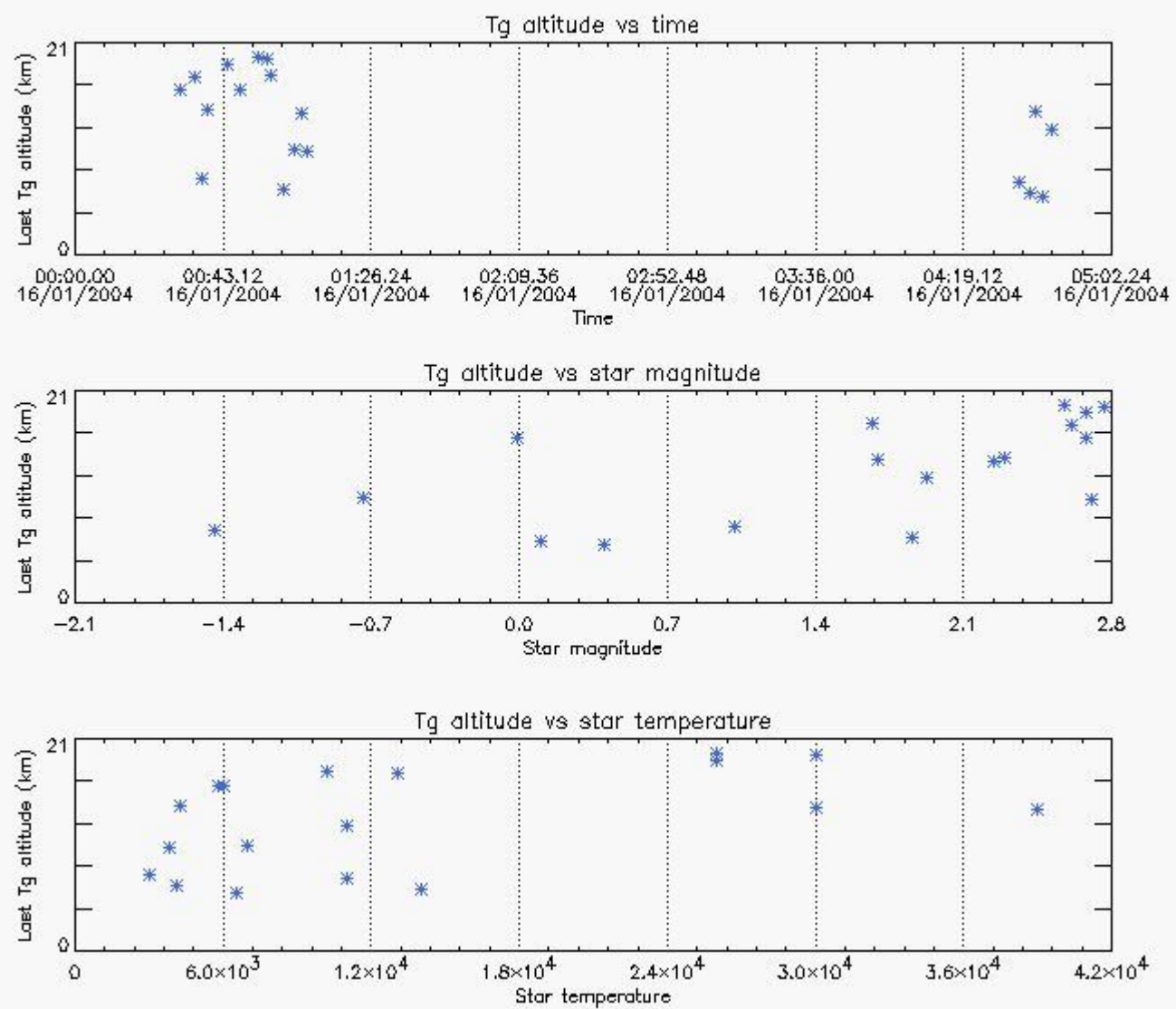
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.023	19.954
St. deviation:	4.9163	4.0960
Maximum:	19.498	24.845
Minimum:	5.7063	5.4825
Number of data:	18.000	17.000

6.2 Plot for DARK limb products

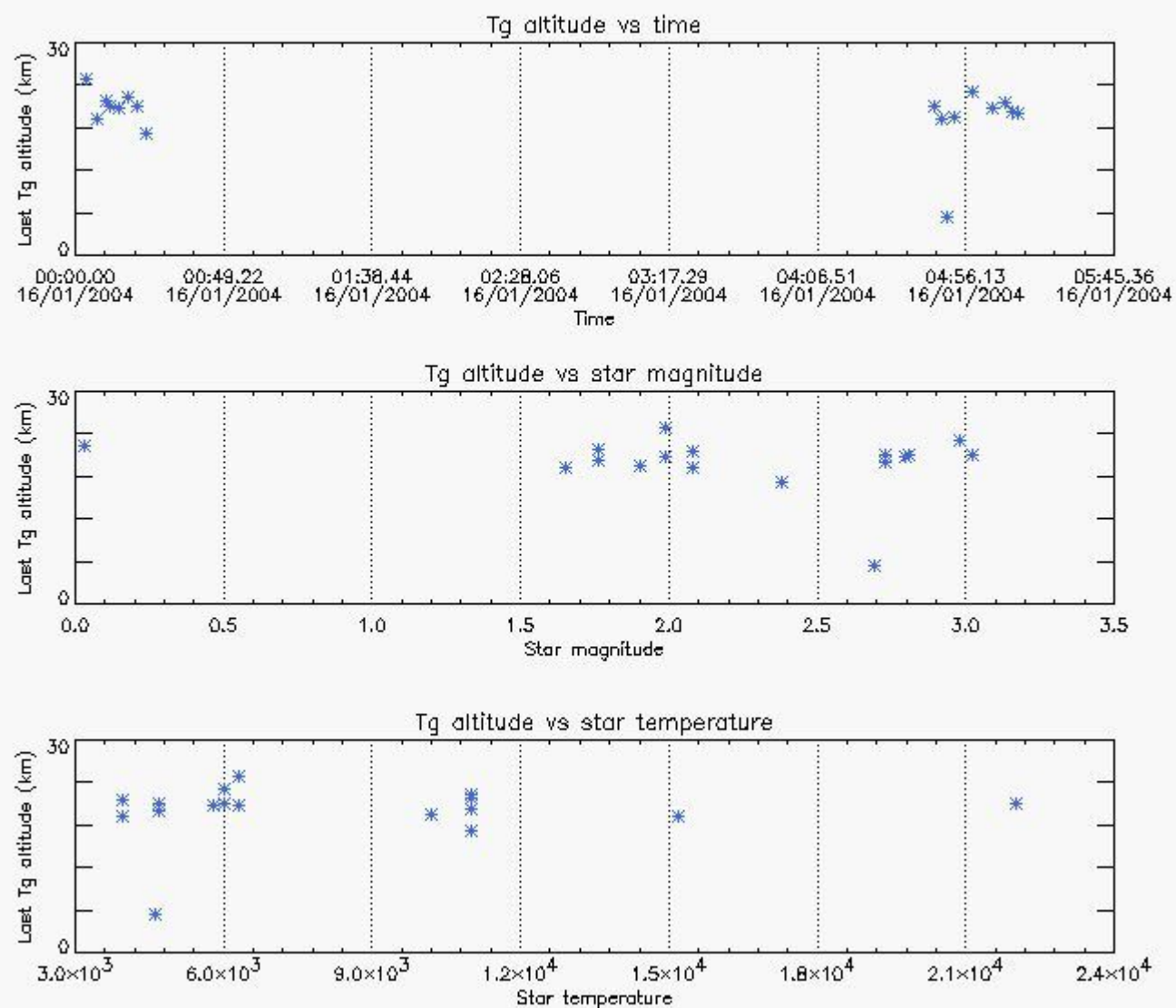
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



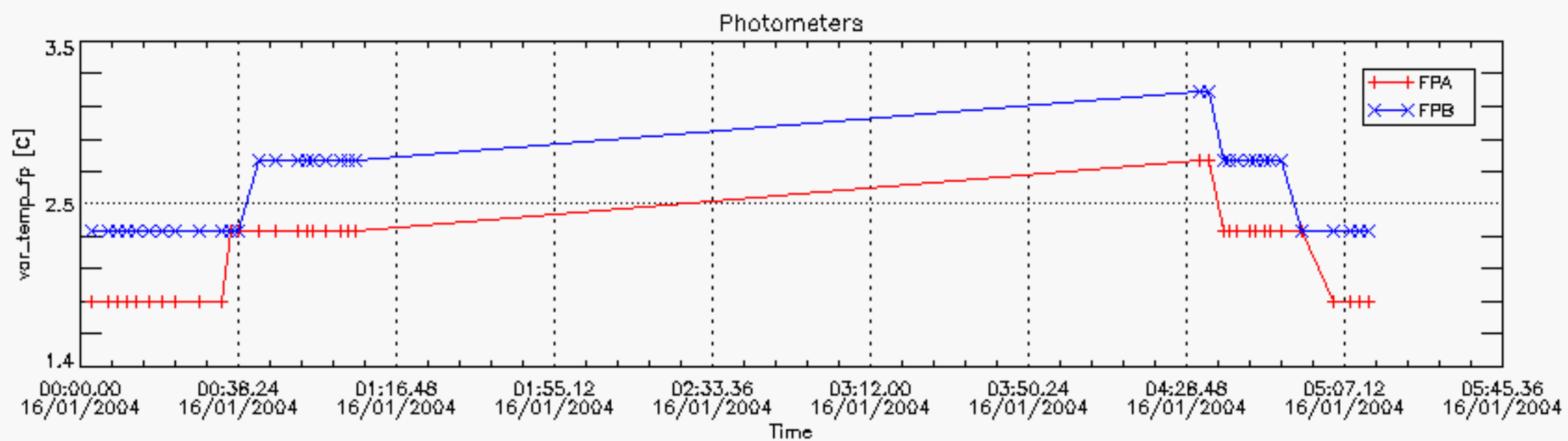
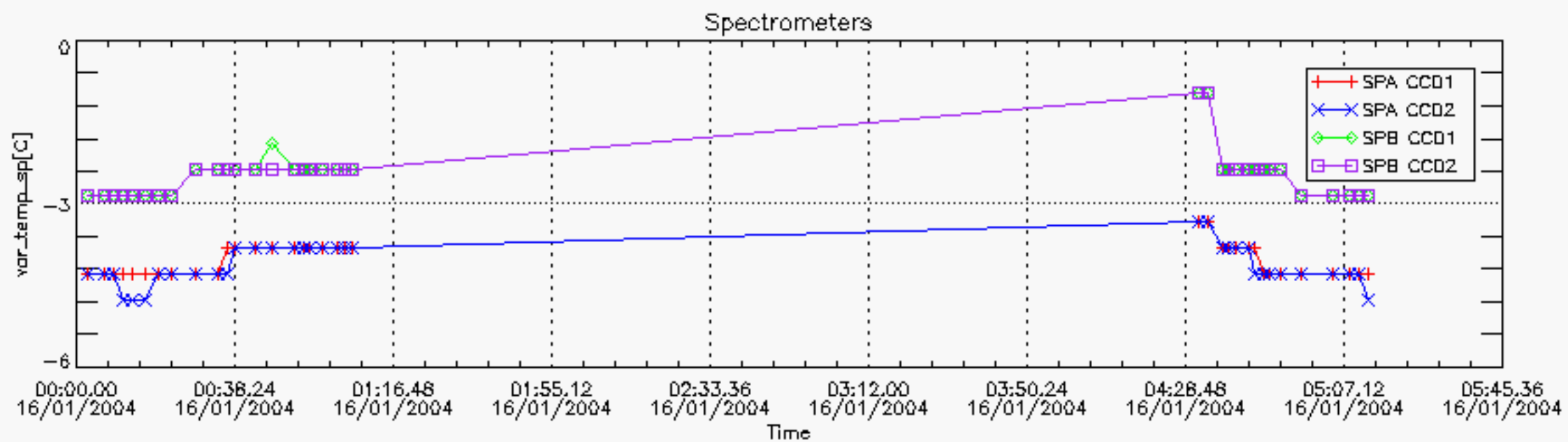
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

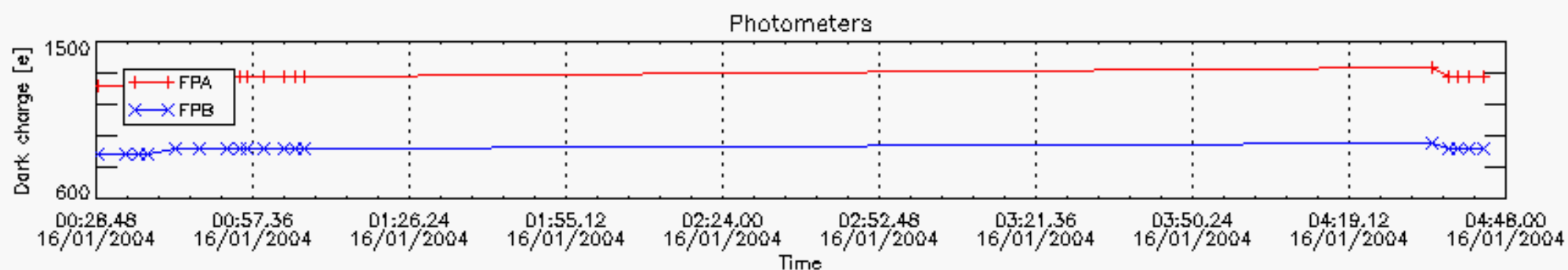
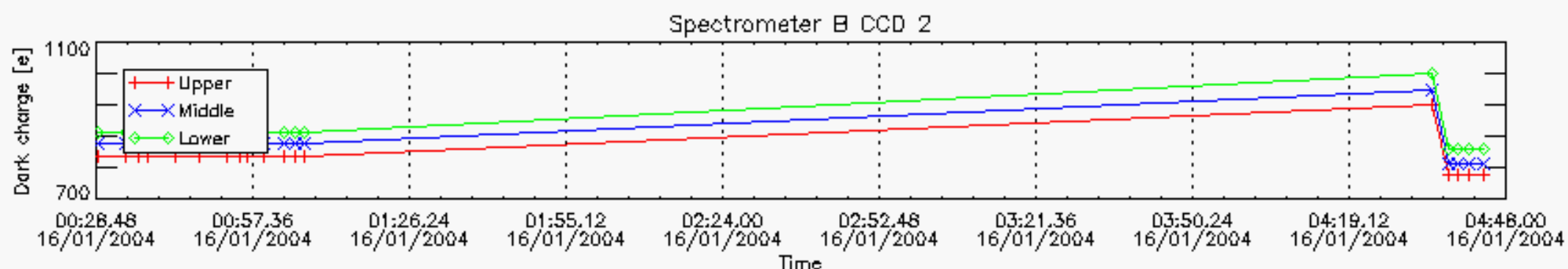
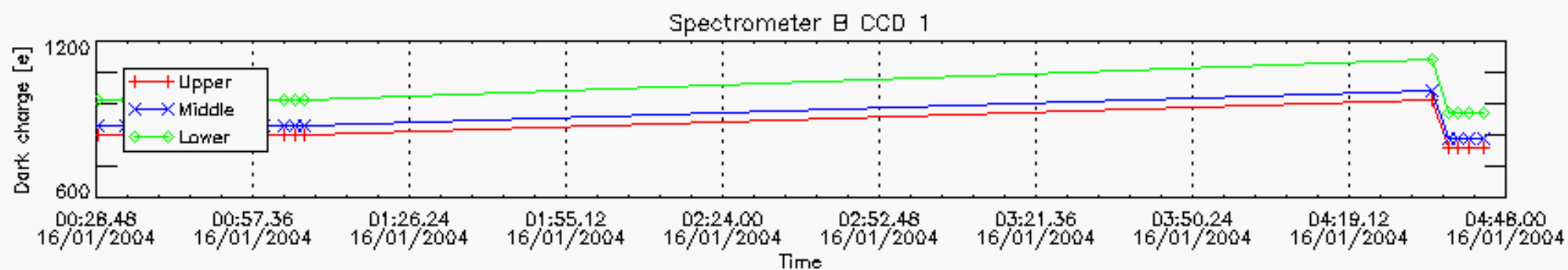
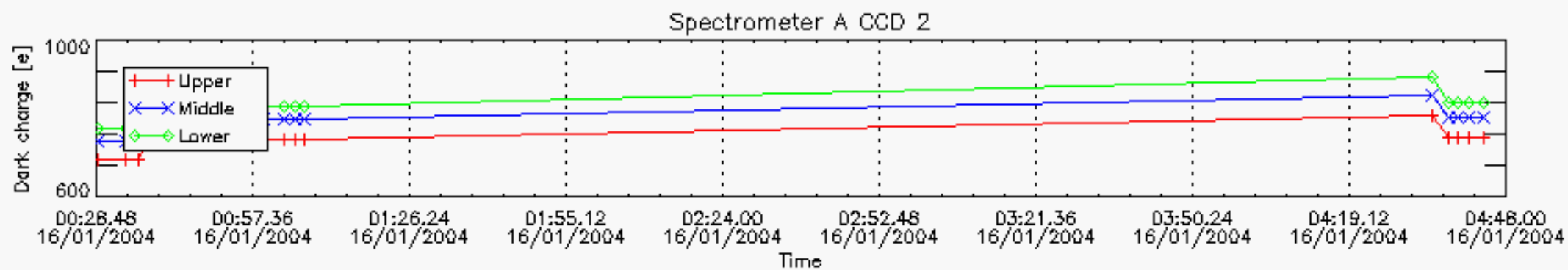
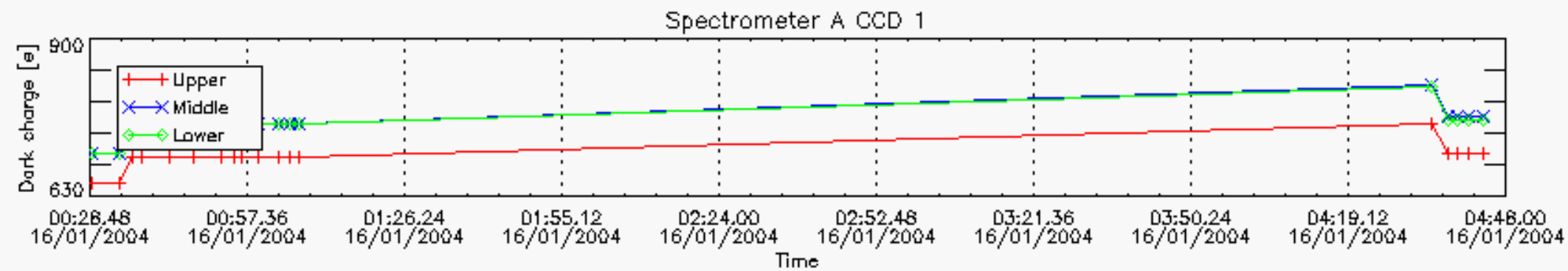
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

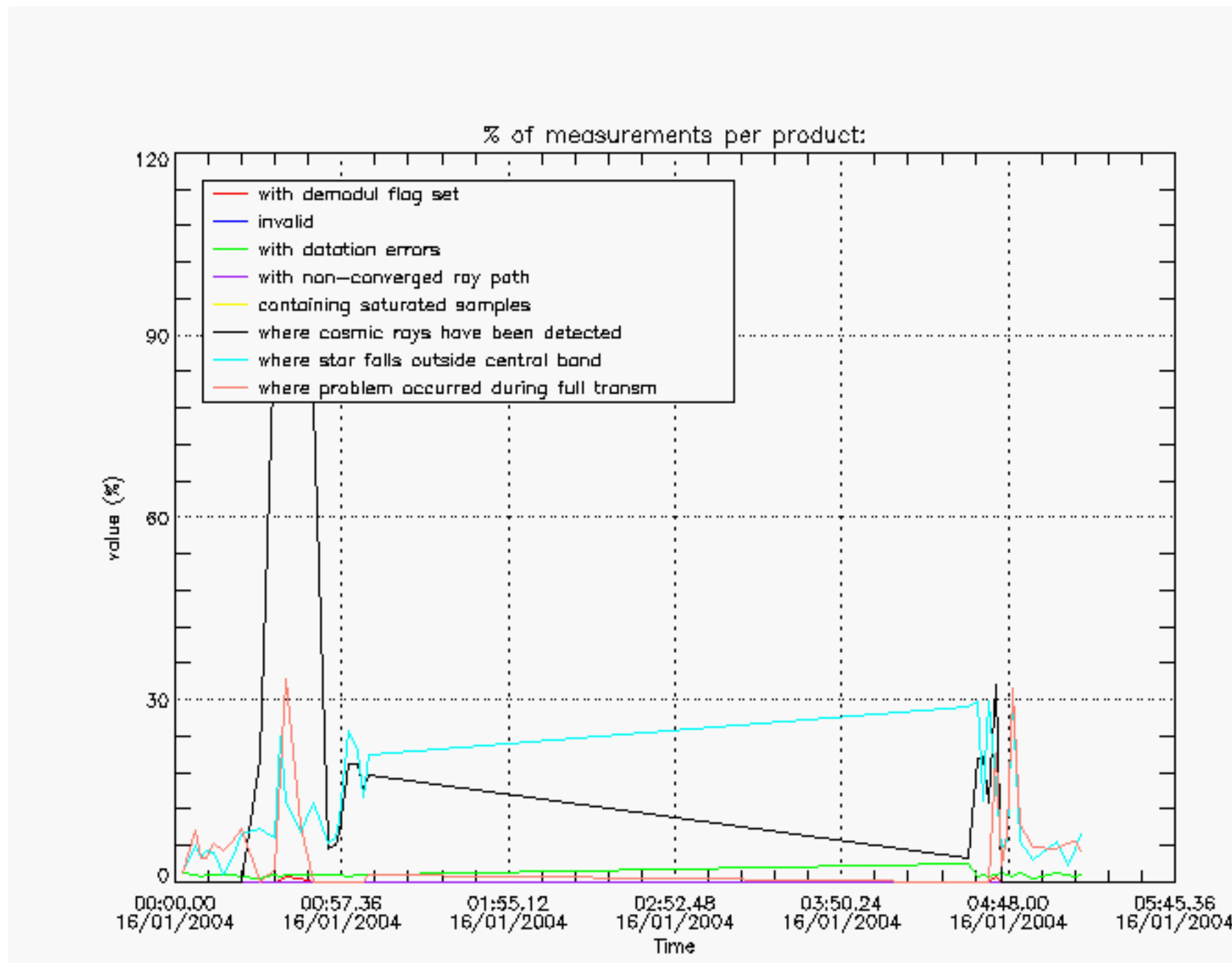
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.2	1446.9	1460.9	1447.2
St. deviation:	4.7606	6.4936	6.1607	7.3457
Maximum:	1515.0	1511.0	1503.0	1491.0
Minimum:	1445.0	1422.0	1437.0	1421.0
Number of data:	21850.	21850.	20400.	20400.



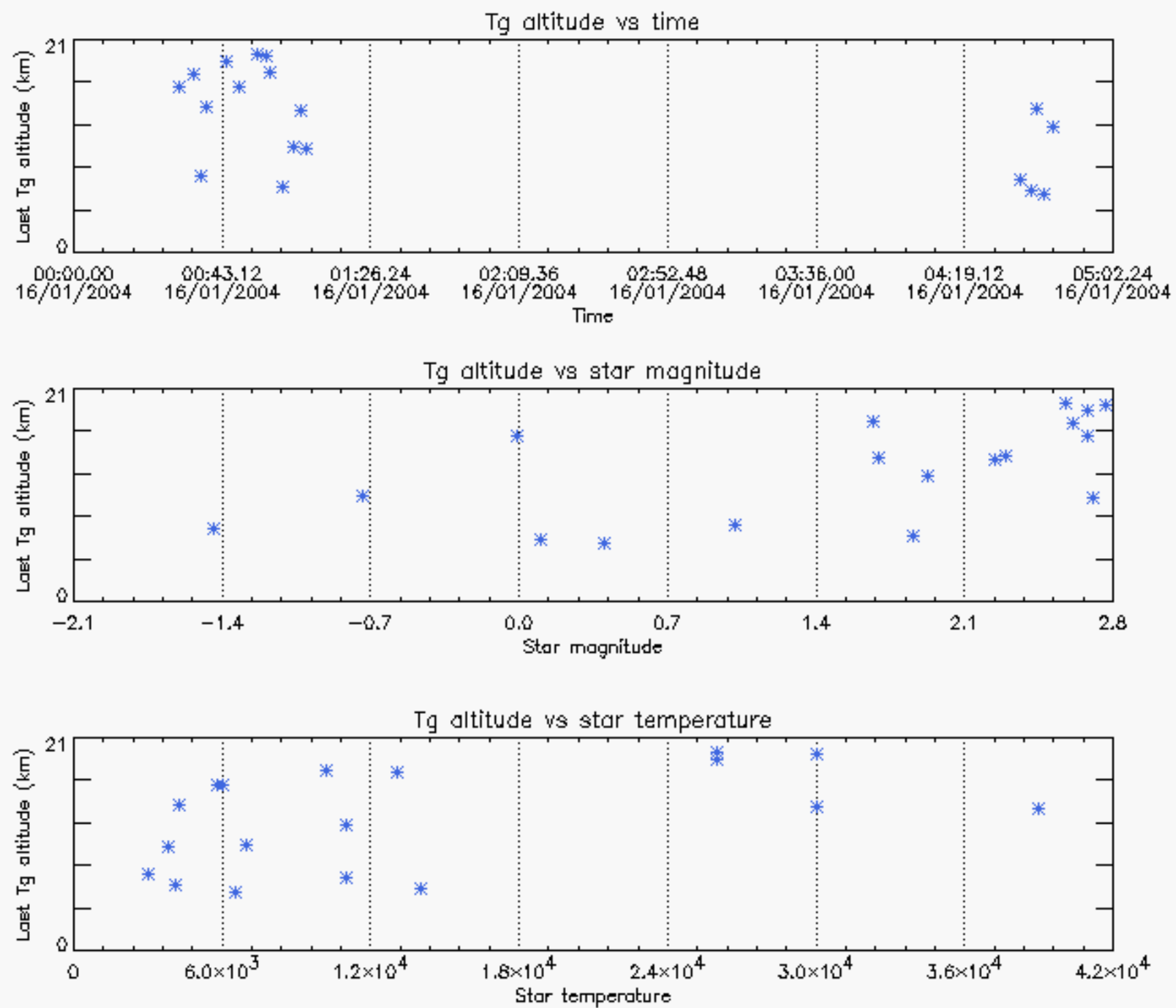








Tangent altitude at which the star is lost



/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
30;	627.7;	01-JAN-2004	07:10:31;	Dark	;	44.0;	71;	Iot Car	;	2.25;	7700;occ;	88;	0;	9608
31;	723.2;	01-JAN-2004	07:12:06;	Dark	;	54.0;	41;	Eps Car	;	1.86;	4100;occ;	108;	0;	9608
32;	841.6;	01-JAN-2004	07:14:05;	Dark	;	59.0;	65;	Lam Vel	;	2.20;	4400;occ;	118;	0;	9608
33;	976.8;	01-JAN-2004	07:16:20;	Dark	;	46.5;	2;	Alp Car	;	-0.74;	7000;occ;	93;	0;	9608
34;	1170.4;	01-JAN-2004	07:19:33;	Dark	;	51.0;	117;	Pi Pup	;	2.71;	3800;occ;	102;	0;	9608
35;	1339.2;	01-JAN-2004	07:22:22;	Dark	;	48.0;	23;	21Eps CMa	;	1.50;	26000;occ;	96;	0;	9608
36;	1431.6;	01-JAN-2004	07:23:55;	Dark	;	46.5;	179;	240mi2CMa	;	3.03;	24000;occ;	93;	0;	9608
37;	1580.6;	01-JAN-2004	07:26:24;	Dark	;	49.5;	1;	9Alp CMa	;	-1.44;	11000;occ;	99;	0;	9608
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27;	163.9;	06-JAN-2004	11:07:05;	Dark	;	46.0;	64;	Gam Cen	;	2.20;	10600;	occ;	92;	0;	9682
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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
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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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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
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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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1;	-4543.1;	11-JAN-2004	10:31:43;	Dark	;	42.5;	179;	240mi2CMA	;	3.03;	24000;occ;	85;	62;	9753
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
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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2;	-4660.9;	11-JAN-2004	17:12:09;	Dark	;	45.5;	23;	21Eps CMA	;	1.50;	26000;occ;	91;	0;	9757
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

29; -206.9; 11-JAN-2004 18:26:23; Dark ; 40.5; 109; Bet Lup ; 2.68; 26000;occ; 81; 0; 9757
 30; -116.2; 11-JAN-2004 18:27:54; Dark ; 41.5; 78; Alp Lup ; 2.30; 28000;occ; 83; 0; 9757
 31; 51.1; 11-JAN-2004 18:30:41; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0; 9758
 32; 250.5; 11-JAN-2004 18:34:01; Dark ; 43.0; 20; Bet Cru ; 1.25; 30000;occ; 86; 0; 9758
 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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1; -4244.9; 11-JAN-2004 08:56:06; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0; 9752
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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
 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
 11; -2612.7; 11-JAN-2004 09:23:18; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0; 9752
 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
 14; -2194.2; 11-JAN-2004 09:30:16; Bright; 52.5; 32; 77Eps UMa ; 1.76; 11000;occ; 105; 0; 9752
 15; -1968.3; 11-JAN-2004 09:34:02; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0; 9752
 16; -1787.8; 11-JAN-2004 09:37:03; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0; 9752
 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
 21; -879.0; 11-JAN-2004 09:52:12; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0; 9752
 22; -611.7; 11-JAN-2004 09:56:39; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0; 9752
 23; -306.4; 11-JAN-2004 10:01:44; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0; 9752
 24; -209.7; 11-JAN-2004 10:03:21; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0; 9752
 25; -119.2; 11-JAN-2004 10:04:51; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0; 9752
 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
 32; 1010.6; 11-JAN-2004 10:23:41; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0; 9753
 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
 36; 1461.7; 11-JAN-2004 10:31:12; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0; 9753

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 3; -4245.3; 11-JAN-2004 12:17:17; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0; 9754
 4; -4141.4; 11-JAN-2004 12:19:01; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0; 9754
 5; -4006.9; 11-JAN-2004 12:21:15; Dark ; 60.0; 8; 10Alp CMi ; 0.40; 6500;occ; 120; 0; 9754
 6; -3841.2; 11-JAN-2004 12:24:01; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0; 9754
 7; -3739.8; 11-JAN-2004 12:25:42; Bright; 43.5; 151; 13Mu Gem ; 2.89; 3000;occ; 87; 0; 9754
 8; -3639.5; 11-JAN-2004 12:27:23; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0; 9754
 9; -3550.7; 11-JAN-2004 12:28:52; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0; 9754
 10; -3361.6; 11-JAN-2004 12:32:01; Bright; 37.5; 42; 34Bet Aur ; 1.90; 10200;occ; 75; 0; 9754
 11; -3243.6; 11-JAN-2004 12:33:59; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0; 9754
 12; -3105.2; 11-JAN-2004 12:36:17; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0; 9754
 13; -2613.1; 11-JAN-2004 12:44:29; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0; 9754
 14; -2364.8; 11-JAN-2004 12:48:37; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0; 9754
 15; -2195.7; 11-JAN-2004 12:51:27; Bright; 51.0; 32; 77Eps UMa ; 1.76; 11000;occ; 102; 0; 9754
 16; -1968.6; 11-JAN-2004 12:55:14; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0; 9754
 17; -1787.7; 11-JAN-2004 12:58:15; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0; 9754
 18; -1684.3; 11-JAN-2004 12:59:58; Bright; 50.0; 180; 27Gam Boo ; 3.04; 8000;occ; 100; 0; 9754
 19; -1430.8; 11-JAN-2004 13:04:12; Bright; 54.5; 83; ; 2.38; 11000;occ; 109; 0; 9754
 20; -1306.6; 11-JAN-2004 13:06:16; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0; 9754

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21;-1107.7; 11-JAN-2004 13:09:35; Bright; 76.0; 111; 8Eta Boo ; 2.68; 6000;occ; 152; 0; 9754
22; -878.4; 11-JAN-2004 13:13:24; Bright; 43.0; 98; 13Zet Oph ; 2.57; 30000;occ; 86; 0; 9754
23; -611.2; 11-JAN-2004 13:17:51; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0; 9754
24; -305.7; 11-JAN-2004 13:22:57; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0; 9754
25; -208.6; 11-JAN-2004 13:24:34; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0; 9754
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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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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