

GOMOS Daily Report 22-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	23JAN2004 14:36:59
Data source version	<Any version>
Start time of products	22-JAN-2004 (22JAN2004 00:00:00)
Stop time of products	23-JAN-2004 (23JAN2004 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

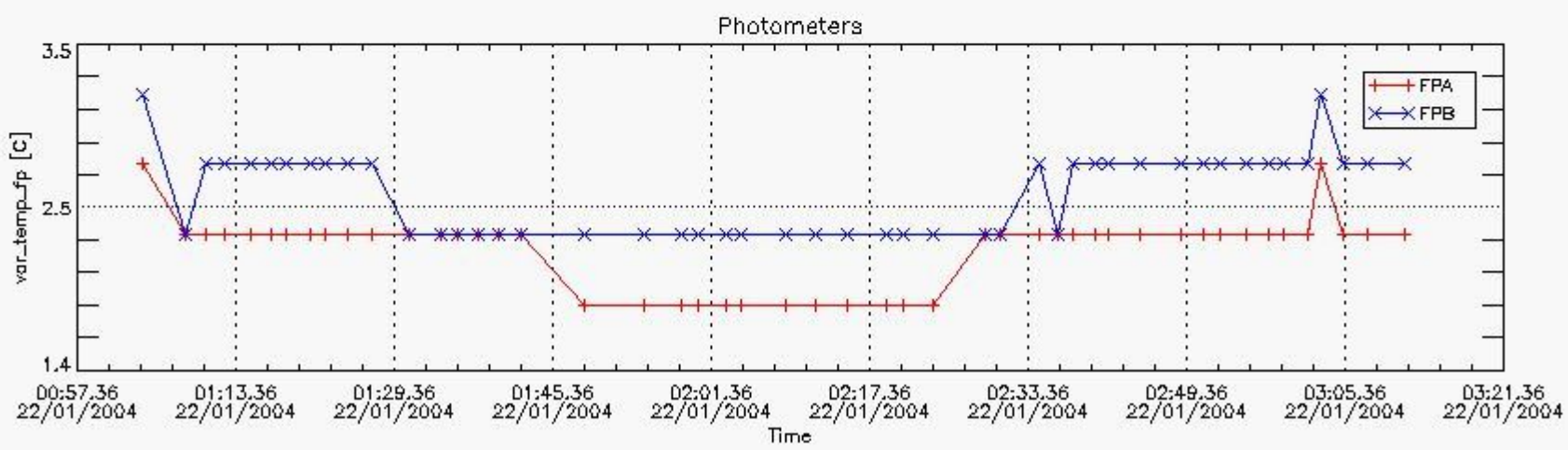
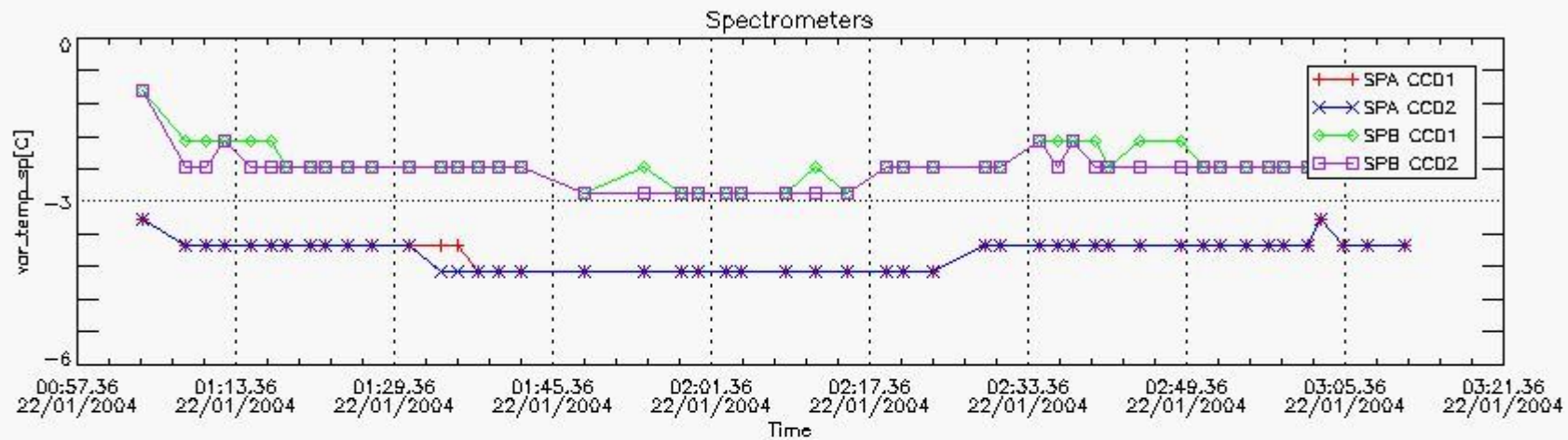
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040122_010415_000000482023_00332_09905_0000.N1	22-JAN-2004 01:04:15	Dark	47.500	12	Alp1Cru	0.77500	30000.	95	9905	No
GOM_TRA_1PNPDE20040122_010830_000000392023_00332_09905_0001.N1	22-JAN-2004 01:08:30	Dark	39.000	29	Bet Car	1.6720	10200.	78	9905	No
GOM_TRA_1PNPDE20040122_011036_000000432023_00332_09905_0002.N1	22-JAN-2004 01:10:36	Dark	42.500	71	lot Car	2.2460	7700.0	85	9905	No
GOM_TRA_1PNPDE20040122_011225_000000452023_00332_09905_0003.N1	22-JAN-2004 01:12:25	Dark	44.500	46	Del Vel	1.9540	10600.	89	9905	No
GOM_TRA_1PNPDE20040122_011503_000000522023_00332_09905_0004.N1	22-JAN-2004 01:15:03	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	9905	No
GOM_TRA_1PNPDE20040122_011712_000000412023_00332_09905_0005.N1	22-JAN-2004 01:17:12	Dark	41.000	70	Zet Pup	2.2460	39000.	82	9905	No
GOM_TRA_1PNPDE20040122_011843_000000482023_00332_09905_0006.N1	22-JAN-2004 01:18:43	Dark	47.500	117	Pi Pup	2.7060	3800.0	95	9905	No
GOM_TRA_1PNPDE20040122_012113_000000452023_00332_09905_0000.N1	22-JAN-2004 01:21:13	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	9905	No
GOM_TRA_1PNPDE20040122_012235_000000432023_00332_09905_0001.N1	22-JAN-2004 01:22:35	Dark	43.000	179	24Omi2CMa	3.0320	24000.	86	9905	No
GOM_TRA_1PNPDE20040122_012448_000000492023_00332_09905_0002.N1	22-JAN-2004 01:24:48	Dark	48.500	1	9Alp CMa	-1.4400	11000.	97	9905	No
GOM_TRA_1PNPDE20040122_012716_000000852023_00332_09905_0003.N1	22-JAN-2004 01:27:16	Dark	85.000	48	30Alp Hya	1.9770	4100.0	170	9905	No
GOM_TRA_1PNPDE20040122_013106_000000582023_00332_09905_0004.N1	22-JAN-2004 01:31:06	Dark	58.000	8	10Alp CMi	0.40000	6500.0	116	9905	No
GOM_TRA_1PNPDE20040122_013413_000000502023_00332_09905_0005.N1	22-JAN-2004 01:34:13	Dark	49.500	44	24Gam Gem	1.9280	11000.	99	9905	No
GOM_TRA_1PNPDE20040122_013558_000000422023_00332_09905_0006.N1	22-JAN-2004 01:35:58	Bright	41.500	151	13Mu Gem	2.8900	3000.0	83	9905	No
GOM_TRA_1PNPDE20040122_013805_000000422023_00332_09905_0007.N1	22-JAN-2004 01:38:05	Bright	41.500	28	12Bet Tau	1.6500	15200.	83	9905	No
GOM_TRA_1PNPDE20040122_014009_000000382023_00332_09905_0008.N1	22-JAN-2004 01:40:09	Bright	37.500	107	37The Aur	2.6490	11000.	75	9905	No
GOM_TRA_1PNPDE20040122_014219_000000382023_00332_09905_0009.N1	22-JAN-2004 01:42:19	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	9905	No
GOM_TRA_1PNPDE20040122_014844_000002372023_00332_09905_0010.N1	22-JAN-2004 01:48:44	Bright	236.50	51	41Gam1Leo	2.0100	4500.0	473	9905	No
GOM_TRA_1PNPDE20040122_015452_000000362023_00332_09905_0011.N1	22-JAN-2004 01:54:52	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	9905	No
GOM_TRA_1PNPDE20040122_015833_000000422023_00332_09905_0012.N1	22-JAN-2004 01:58:33	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	9905	No
GOM_TRA_1PNPDE20040122_020013_000000552023_00332_09905_0013.N1	22-JAN-2004 02:00:13	Bright	55.000	32	77Eps UMa	1.7630	11000.	110	9905	No
GOM_TRA_1PNPDE20040122_020302_000000402023_00332_09905_0014.N1	22-JAN-2004 02:03:02	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	9905	No
GOM_TRA_1PNPDE20040122_020433_000000552023_00332_09905_0015.N1	22-JAN-2004 02:04:33	Bright	55.000	39	85Eta UMa	1.8540	24000.	110	9905	No
GOM_TRA_1PNPDE20040122_020907_000000392023_00332_09905_0016.N1	22-JAN-2004 02:09:07	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	9905	No
GOM_TRA_1PNPDE20040122_021212_000000402023_00332_09905_0017.N1	22-JAN-2004 02:12:12	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	9905	No
GOM_TRA_1PNPDE20040122_021522_000000692023_00332_09905_0018.N1	22-JAN-2004 02:15:22	Bright	68.500	83		2.3780	11000.	137	9905	No
GOM_TRA_1PNPDE20040122_021913_000000362023_00332_09905_0019.N1	22-JAN-2004 02:19:13	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	9905	No
GOM_TRA_1PNPDE20040122_022057_000001132023_00332_09905_0020.N1	22-JAN-2004 02:20:57	Dark	112.50	3	16Alp Boo	-0.050000	4250.0	225	9905	No
GOM_TRA_1PNPDE20040122_022355_000001792023_00332_09905_0021.N1	22-JAN-2004 02:23:55	Dark	178.50	111	8Eta Boo	2.6800	6000.0	357	9905	No
GOM_TRA_1PNPDE20040122_022911_000000522023_00332_09905_0022.N1	22-JAN-2004 02:29:11	Dark	51.500	16	21Alp Sco	1.0200	3000.0	103	9905	No
GOM_TRA_1PNPDE20040122_023043_000000432023_00332_09905_0023.N1	22-JAN-2004 02:30:43	Dark	42.500	75	26Eps Sco	2.2910	4250.0	85	9905	No
GOM_TRA_1PNPDE20040122_023440_000000412023_00332_09905_0024.N1	22-JAN-2004 02:34:40	Dark	41.000	131	Gam Lup	2.8000	26000.	82	9905	No
GOM_TRA_1PNPDE20040122_023636_000000452023_00332_09905_0025.N1	22-JAN-2004 02:36:36	Dark	45.000	109	Bet Lup	2.6770	26000.	90	9905	No
GOM_TRA_1PNPDE20040122_023806_000000432023_00332_09905_0026.N1	22-JAN-2004 02:38:06	Dark	43.000	78	Alp Lup	2.3040	28000.	86	9905	No
GOM_TRA_1PNPDE20040122_024021_000000432023_00333_09906_0027.N1	22-JAN-2004 02:40:21	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	9906	No
GOM_TRA_1PNPDE20040122_024139_000000432023_00333_09906_0028.N1	22-JAN-2004 02:41:39	Dark	42.500	77	Eps Cen	2.3030	28000.	85	9906	No
GOM_TRA_1PNPDE20040122_024452_000000412023_00333_09906_0029.N1	22-JAN-2004 02:44:52	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	9906	No
GOM_TRA_1PNPDE20040122_024906_000000382023_00333_09906_0030.N1	22-JAN-2004 02:49:06	Dark	37.500	29	Bet Car	1.6720	10200.	75	9906	No
GOM_TRA_1PNPDE20040122_025112_000000432023_00333_09906_0031.N1	22-JAN-2004 02:51:12	Dark	42.500	71	lot Car	2.2460	7700.0	85	9906	No
GOM_TRA_1PNPDE20040122_025302_000000432023_00333_09906_0032.N1	22-JAN-2004 02:53:02	Dark	43.000	46	Del Vel	1.9540	10600.	86	9906	No
GOM_TRA_1PNPDE20040122_025539_000000522023_00333_09906_0033.N1	22-JAN-2004 02:55:39	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	9906	No
GOM_TRA_1PNPDE20040122_025748_000000452023_00333_09906_0034.N1	22-JAN-2004 02:57:48	Dark	44.500	70	Zet Pup	2.2460	39000.	89	9906	No
GOM_TRA_1PNPDE20040122_025920_000000462023_00333_09906_0035.N1	22-JAN-2004 02:59:20	Dark	46.000	117	Pi Pup	2.7060	3800.0	92	9906	No
GOM_TRA_1PNPDE20040122_030150_000000442023_00333_09906_0036.N1	22-JAN-2004 03:01:50	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	9906	No
GOM_TRA_1PNPDE20040122_030313_000000412023_00333_09906_0000.N1	22-JAN-2004 03:03:13	Dark	41.000	179	24Omi2CMa	3.0320	24000.	82	9906	Yes
GOM_TRA_1PNPDE20040122_030524_000000462023_00333_09906_0001.N1	22-JAN-2004 03:05:24	Dark	46.000	1	9Alp CMa	-1.4400	11000.	92	9906	No
GOM_TRA_1PNPDE20040122_030751_000000752023_00333_09906_0002.N1	22-JAN-2004 03:07:51	Dark	75.000	48	30Alp Hya	1.9770	4100.0	150	9906	No
GOM_TRA_1PNPDE20040122_031142_000000572023_00333_09906_0003.N1	22-JAN-2004 03:11:42	Dark	56.500	8	10Alp CMi	0.40000	6500.0	113	9906	No

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



4. Overview of dark signal processing per product

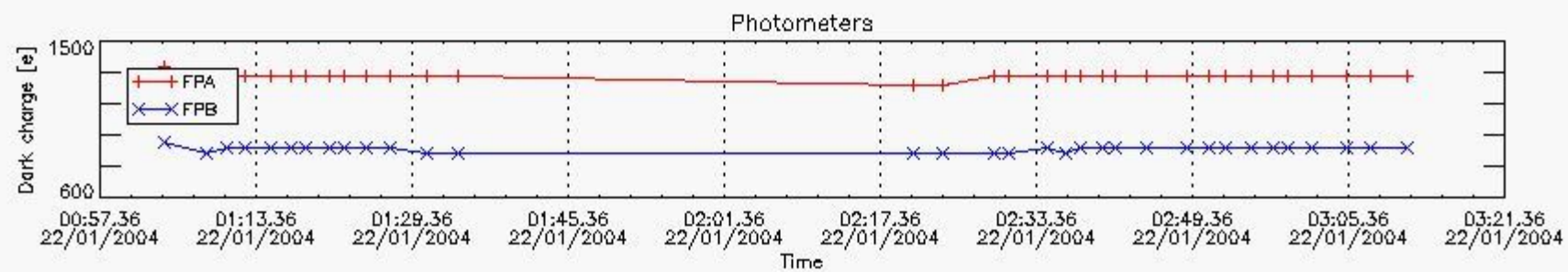
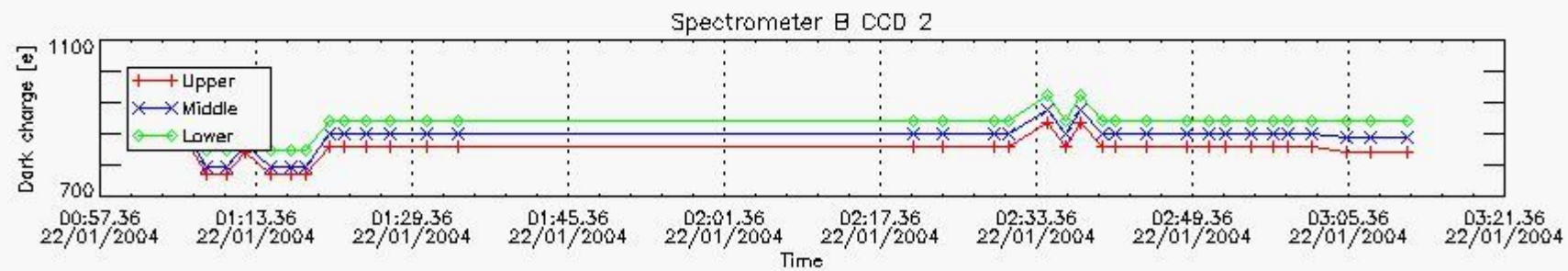
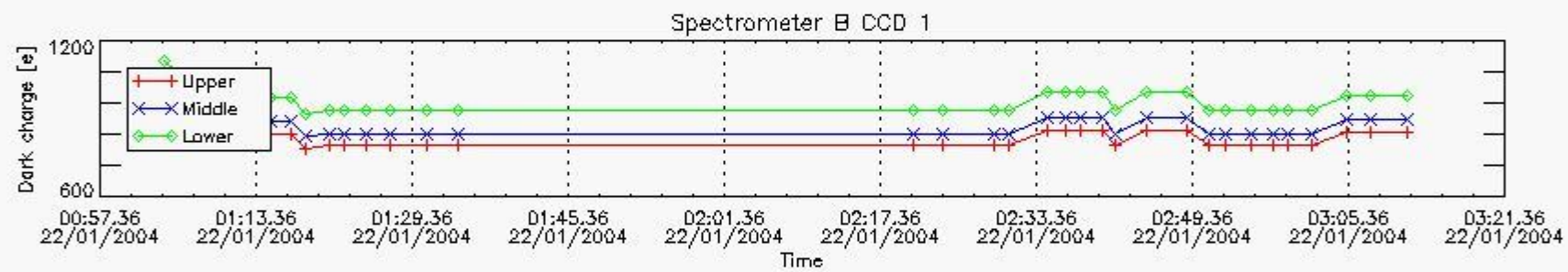
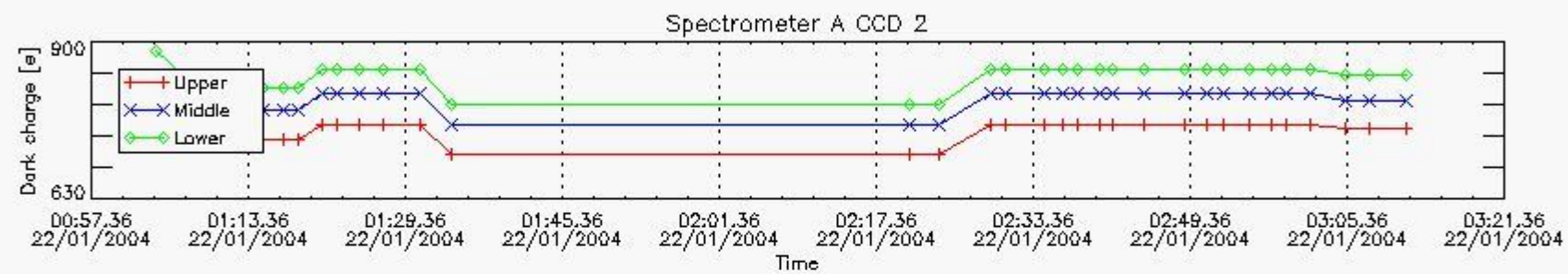
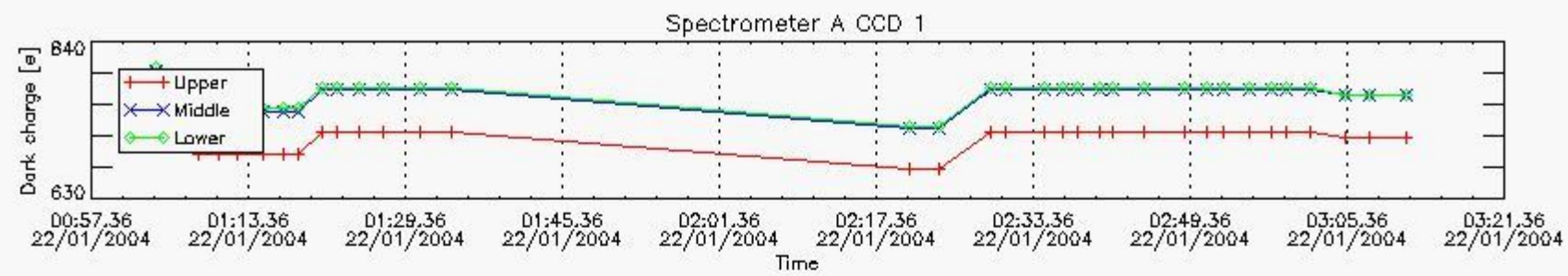
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20040122_010415_000000482023_00332_09905_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040122_010830_000000392023_00332_09905_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040122_011036_000000432023_00332_09905_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040122_011225_000000452023_00332_09905_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040122_011503_000000522023_00332_09905_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040122_011712_000000412023_00332_09905_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040122_011843_000000482023_00332_09905_0006.N1	DC map used (0)

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

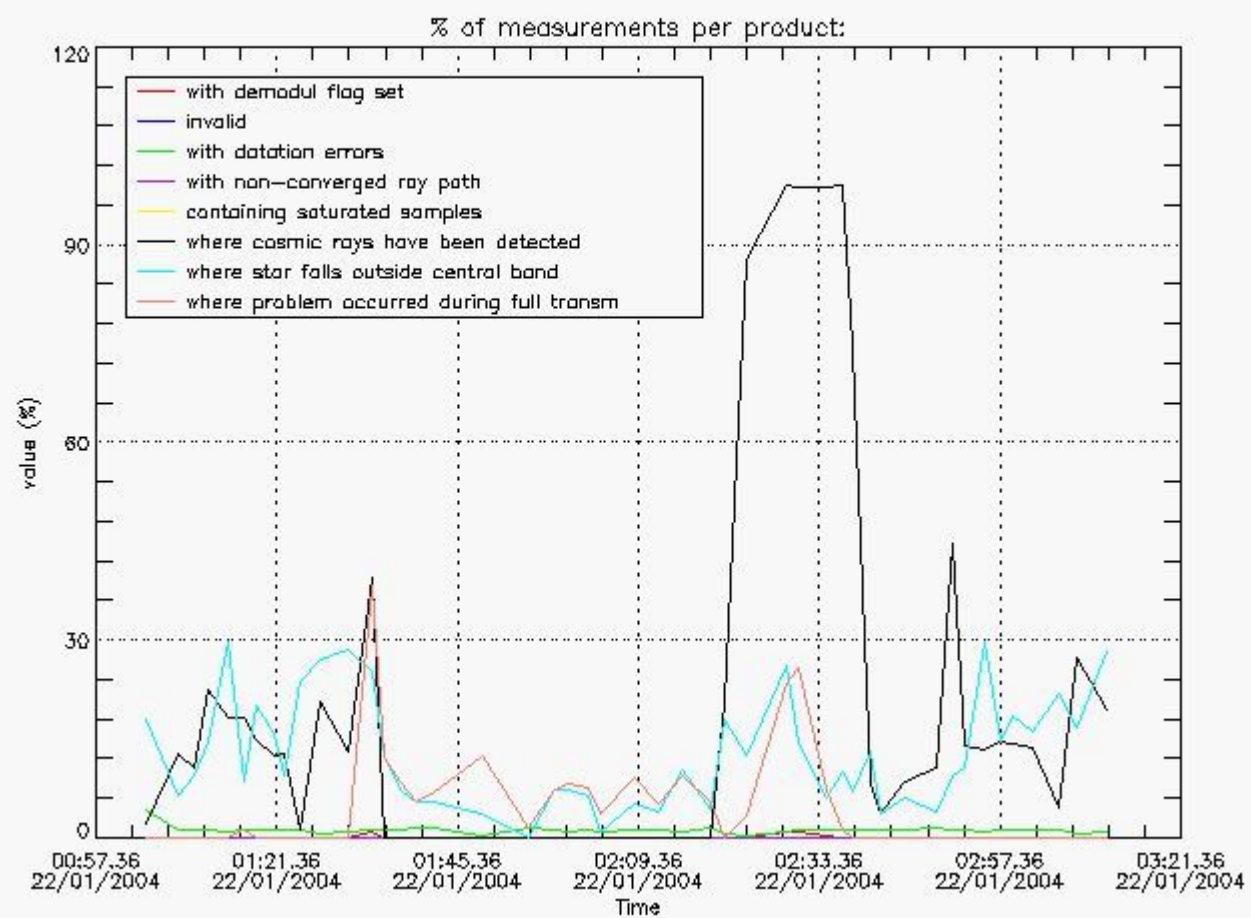


5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	23.4043 %
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



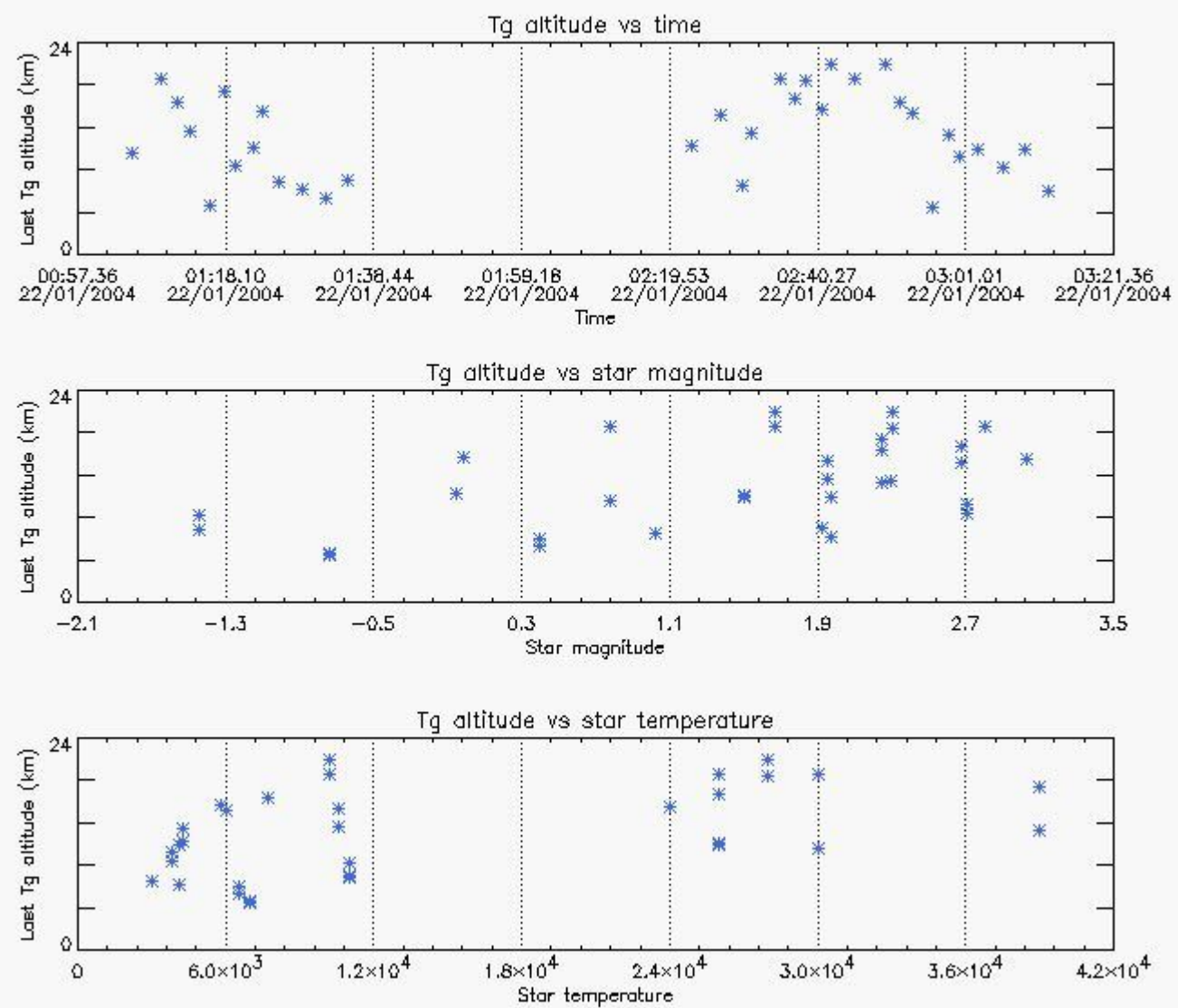
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.505	20.306
St. deviation:	4.9286	2.8892
Maximum:	21.620	25.944
Minimum:	5.4264	14.813
Number of data:	33.000	14.000

6.2 Plot for DARK limb products

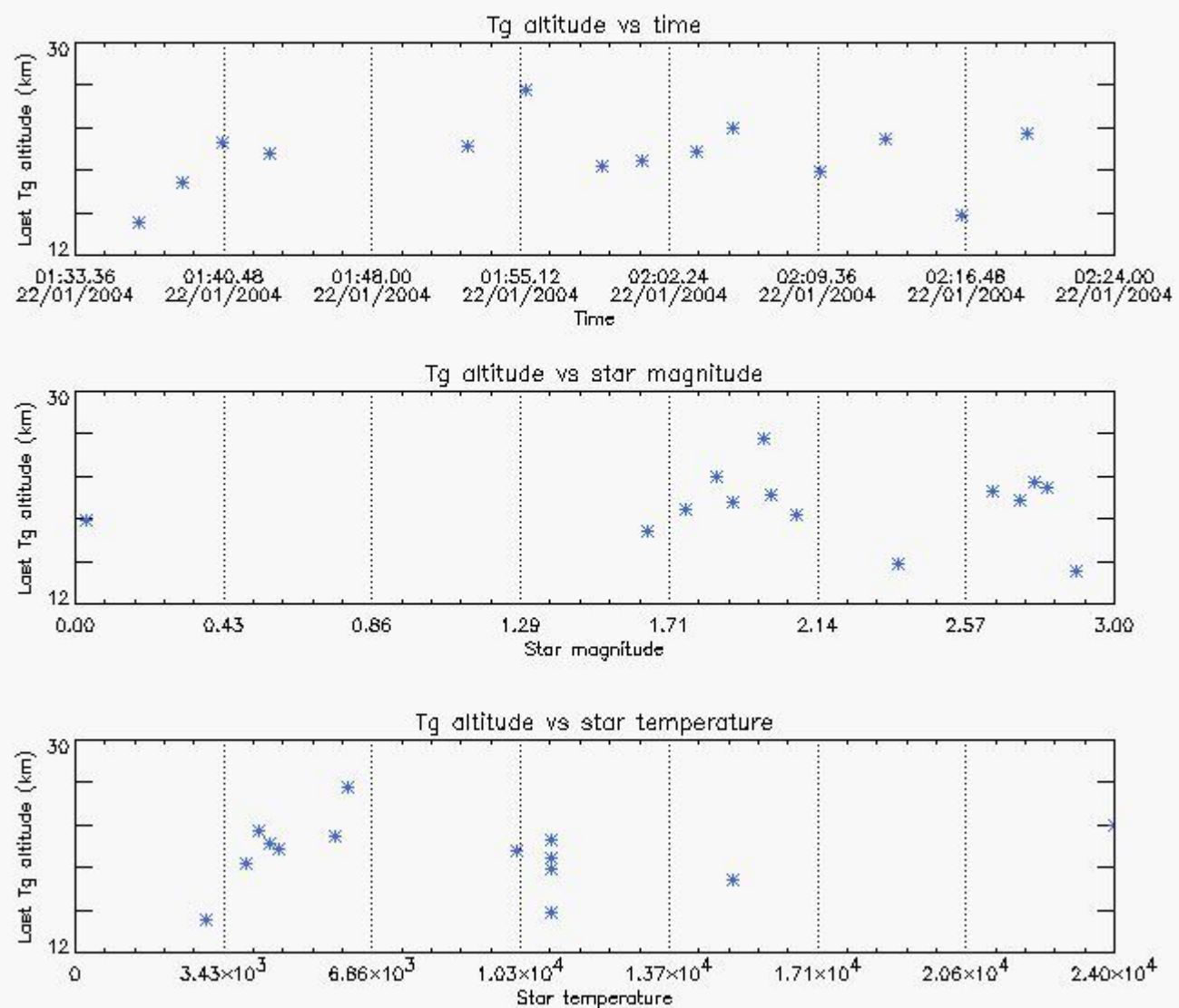
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



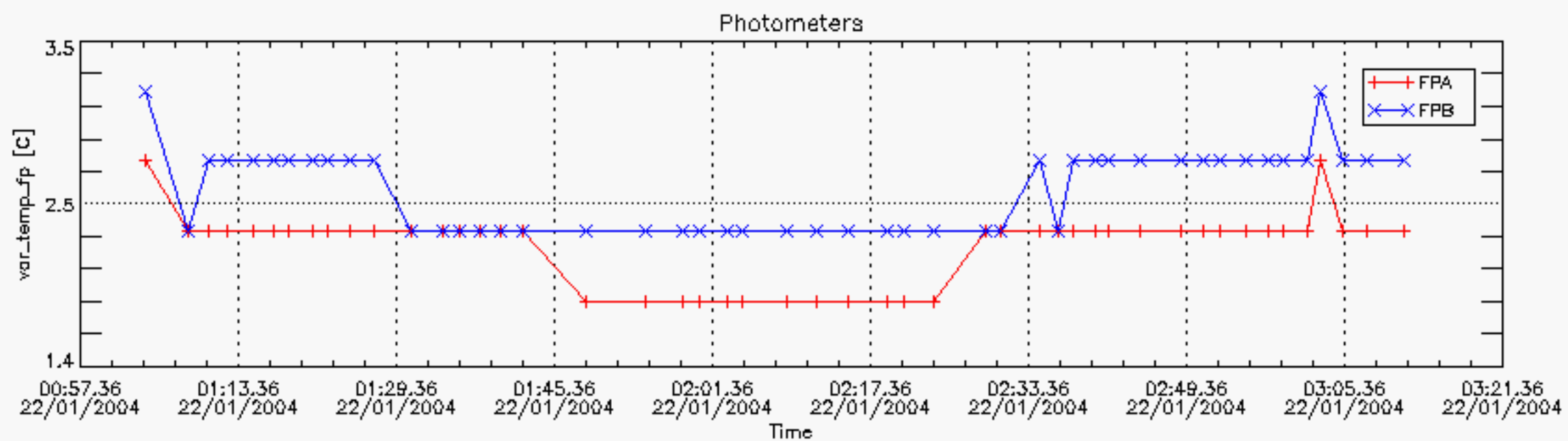
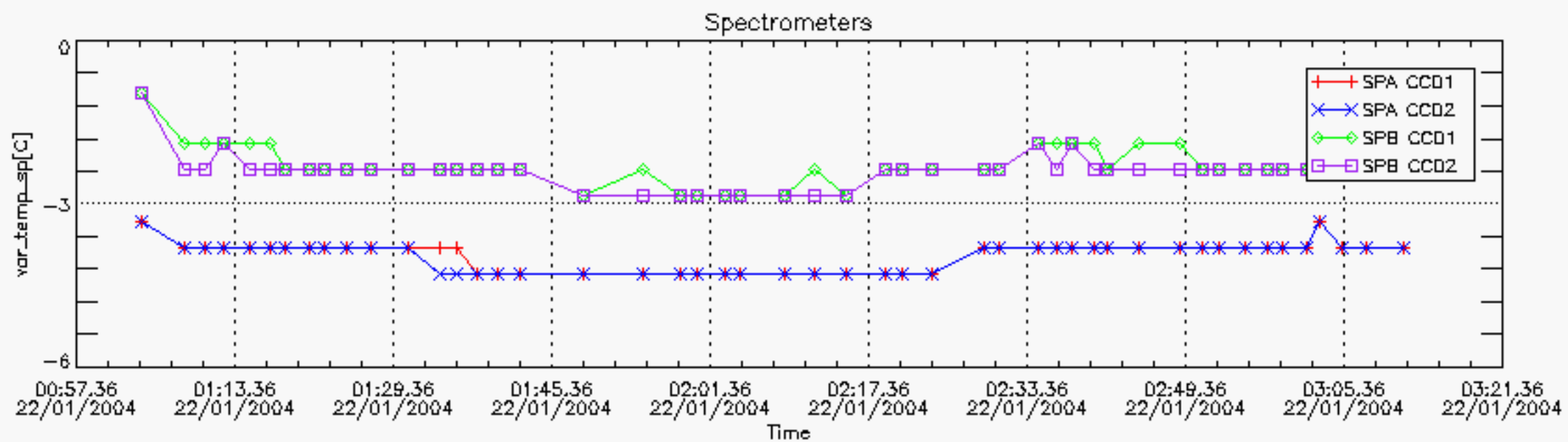
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

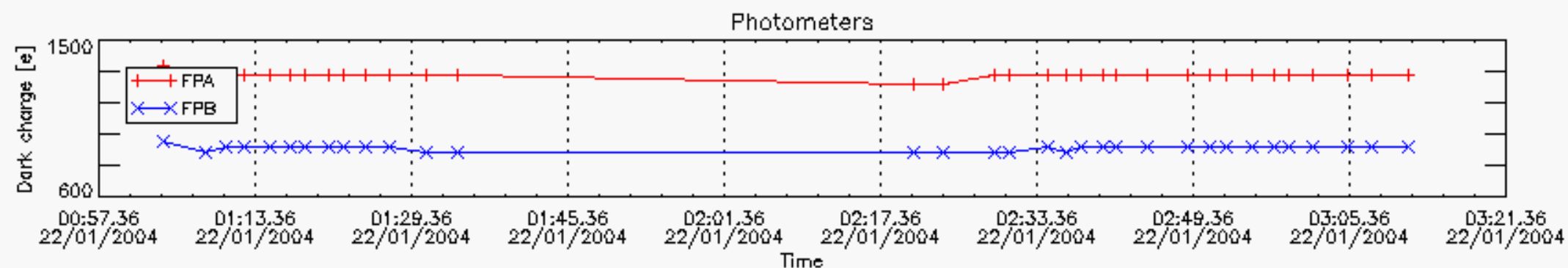
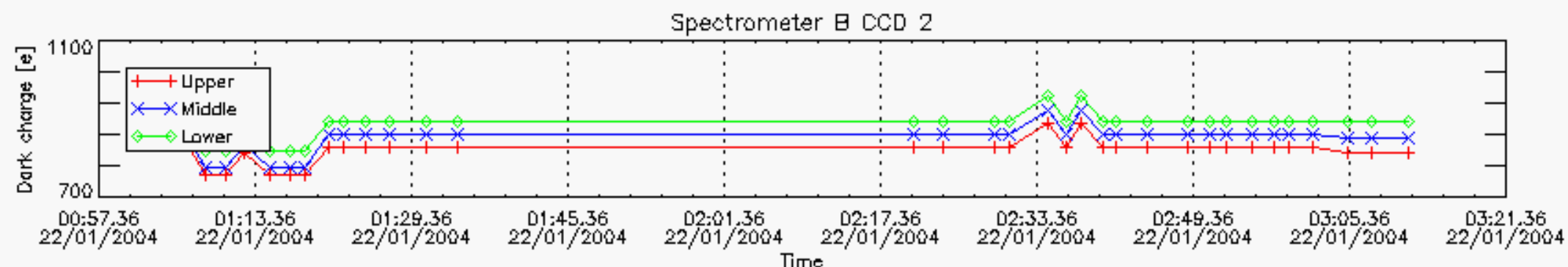
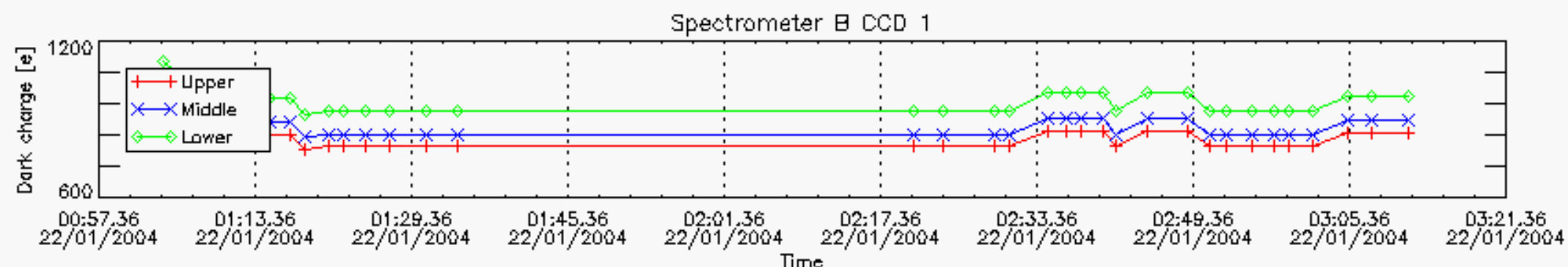
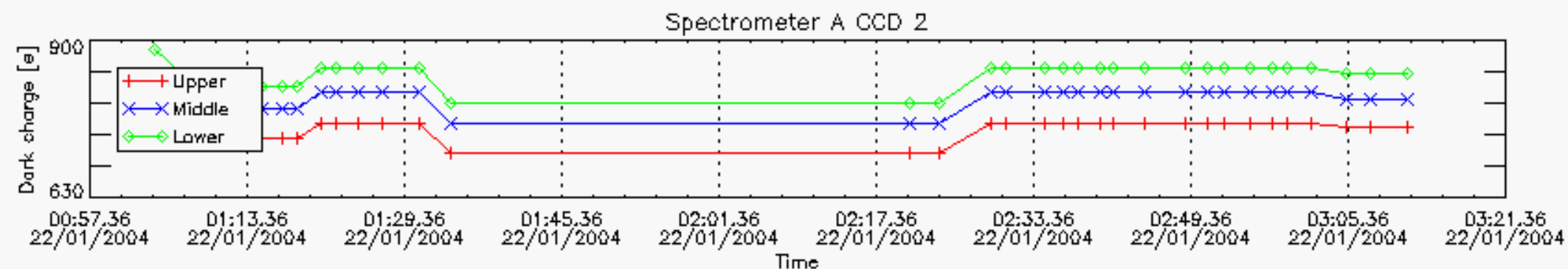
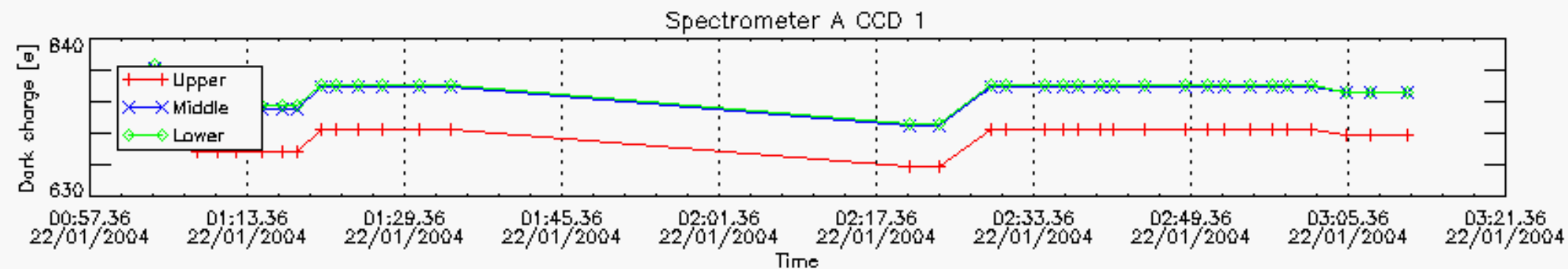
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

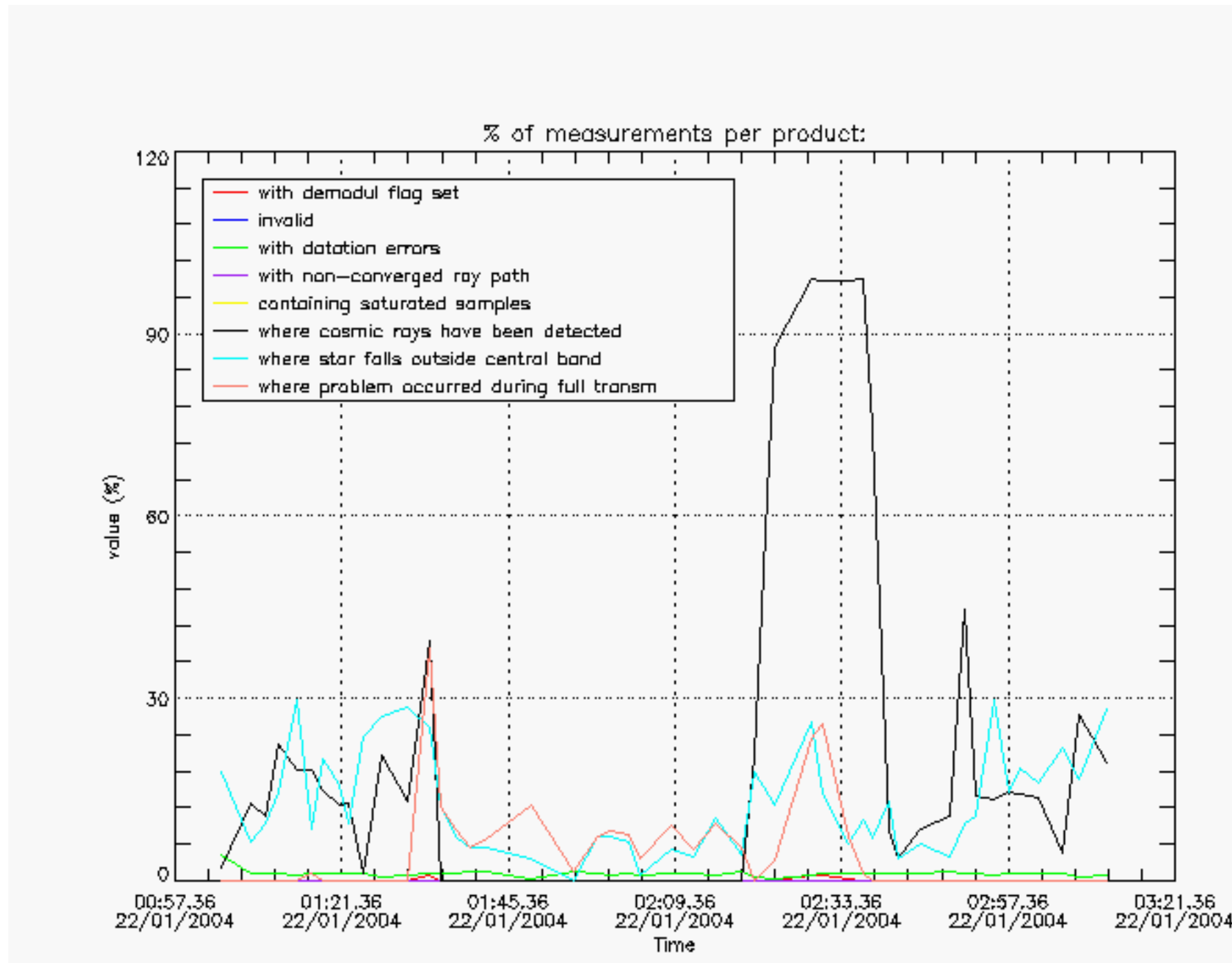
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.7	1447.3	1461.0	1448.0
St. deviation:	5.0030	8.7312	5.9362	9.0643
Maximum:	1664.0	1638.0	1499.0	1491.0
Minimum:	1460.0	1431.0	1439.0	1415.0
Number of data:	41100.	41100.	19300.	19300.



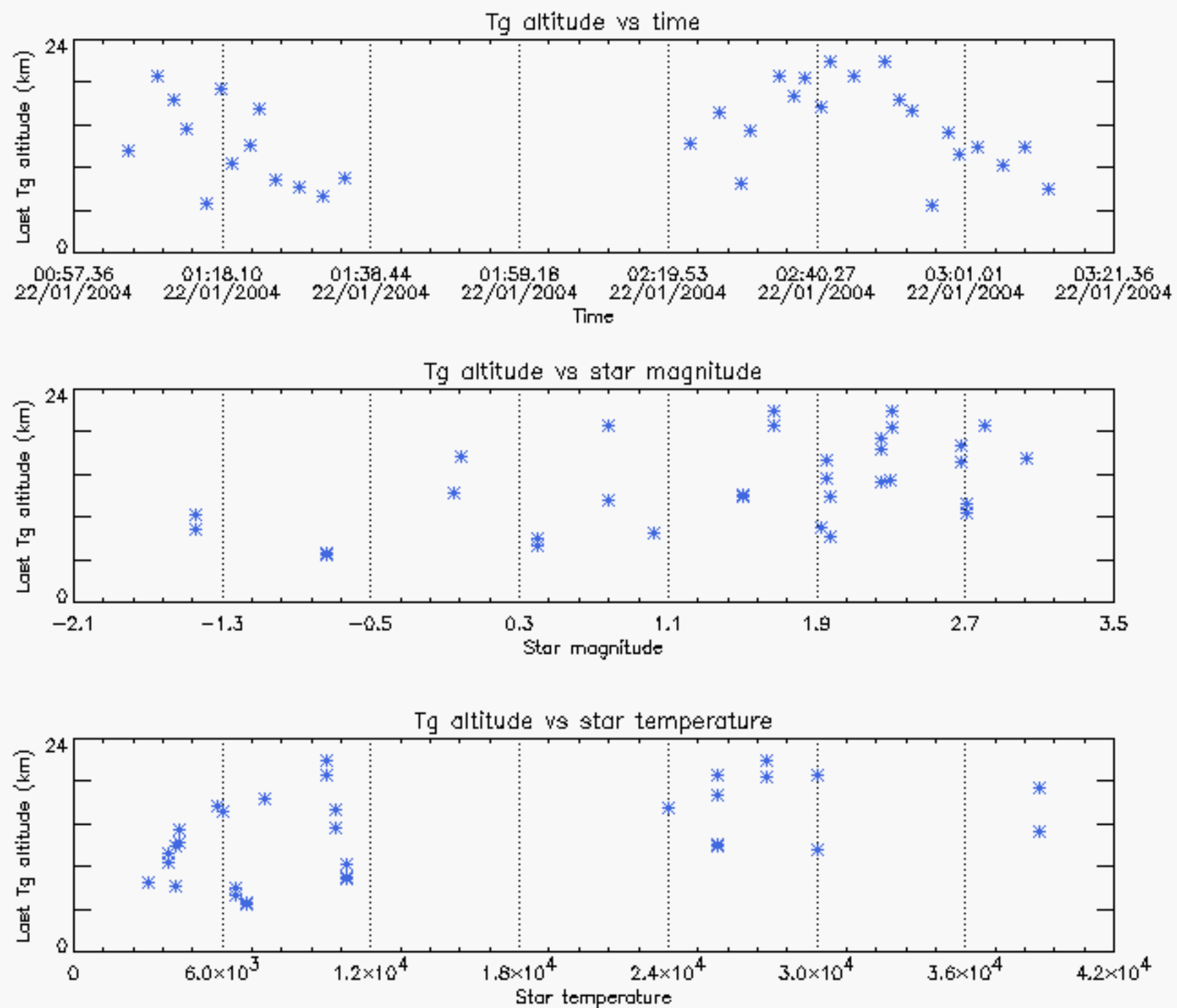




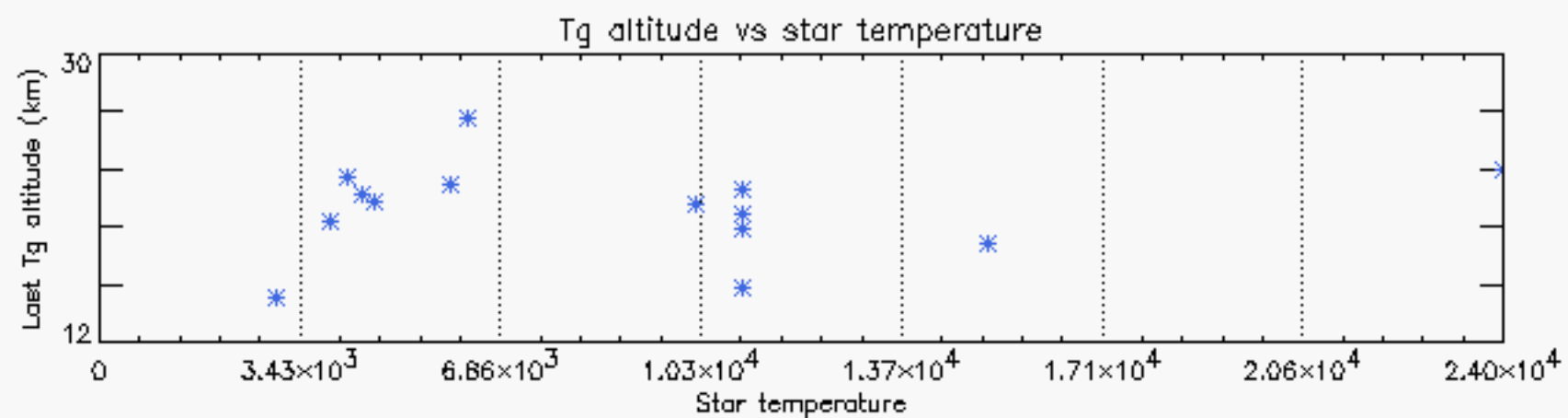
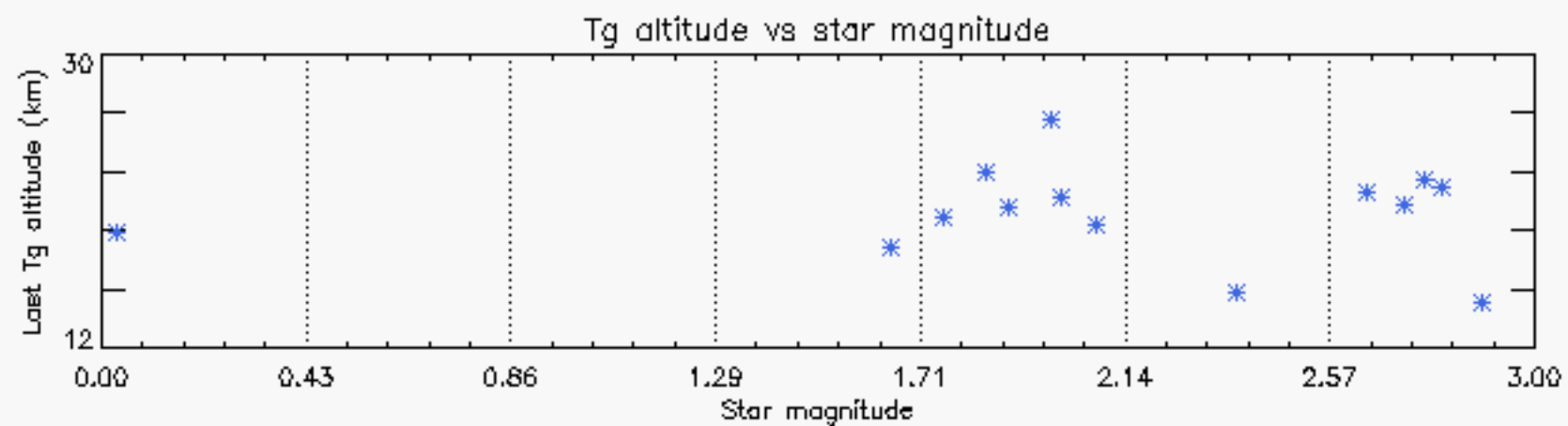
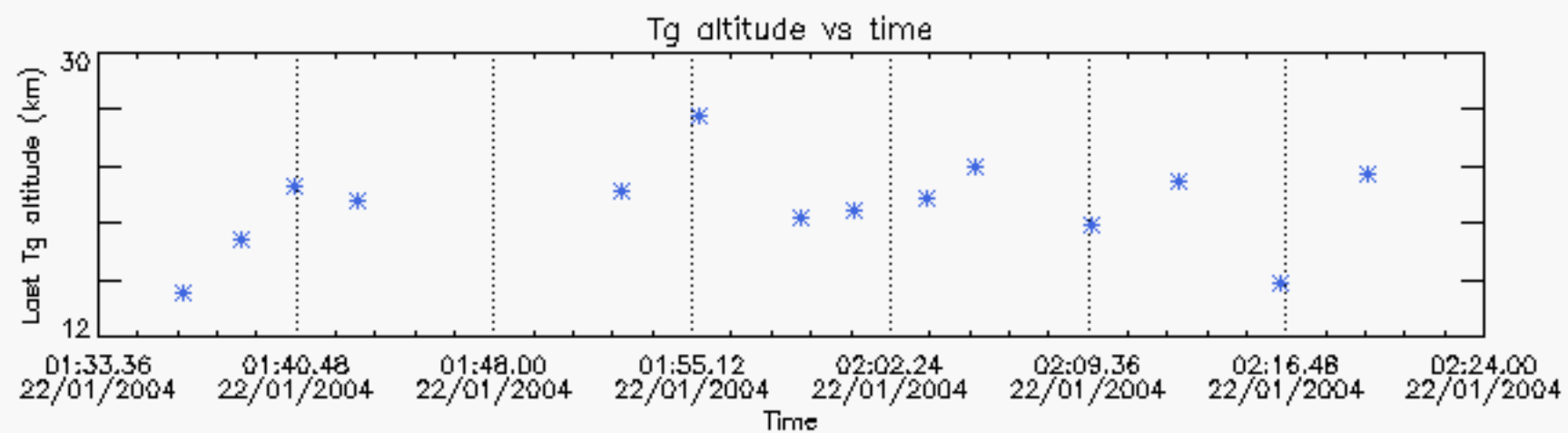




Tangent altitude at which the star is lost



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
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19;	-1008.4;	01-JAN-2004	06:43:15;	Bright;	;	36.0;	120;	1Del Oph	;	2.73;	3200;occ;	72;	0;	9607
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22;	-483.7;	01-JAN-2004	06:51:59;	Dark	;	69.5;	15;	67Alp Vir	;	0.98;	28000;occ;	139;	0;	9607
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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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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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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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29; 16.3; 05-JAN-2004 14:57:26; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0; 9670
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32; 417.1; 05-JAN-2004 15:04:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9670
33; 566.4; 05-JAN-2004 15:06:36; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0; 9670
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39; 1191.0; 05-JAN-2004 15:17:01; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0; 9670
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2;	-4153.3;	06-JAN-2004	09:55:08;	Dark	;	46.0;	30;	46Eps Ori	;	1.69;	30000;	occ;	92;	0;	9681
3;	-4007.3;	06-JAN-2004	09:57:34;	Dark	;	50.0;	14;	58Alp Ori	;	0.87;	3000;	occ;	100;	0;	9681
4;	-3828.0;	06-JAN-2004	10:00:33;	Dark	;	48.5;	44;	24Gam Gem	;	1.93;	11000;	occ;	97;	0;	9681
5;	-3728.4;	06-JAN-2004	10:02:12;	Bright;		46.5;	151;	13Mu Gem	;	2.89;	3000;	occ;	93;	0;	9681
6;	-3643.6;	06-JAN-2004	10:03:37;	Bright;		40.0;	28;	12Bet Tau	;	1.65;	15200;	occ;	80;	0;	9681
7;	-3563.5;	06-JAN-2004	10:04:57;	Bright;		42.0;	114;	3Iot Aur	;	2.69;	4600;	occ;	84;	0;	9681
8;	-3406.2;	06-JAN-2004	10:07:35;	Bright;		35.5;	149;	45Eps Per	;	2.89;	30000;	occ;	71;	0;	9681
9;	-3268.3;	06-JAN-2004	10:09:53;	Bright;		36.5;	175;	39Del Per	;	3.01;	19400;	occ;	73;	0;	9681
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11;	-2616.5;	06-JAN-2004	10:20:44;	Bright;		40.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	80;	0;	9681
12;	-2487.9;	06-JAN-2004	10:22:53;	Bright;		49.5;	36;	50Alp UMa	;	1.80;	6300;	occ;	99;	0;	9681
13;	-2357.2;	06-JAN-2004	10:25:04;	Bright;		44.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	89;	0;	9681
14;	-2247.4;	06-JAN-2004	10:26:53;	Bright;		57.0;	87;	64Gam UMa	;	2.43;	11000;	occ;	114;	0;	9681
15;	-2113.5;	06-JAN-2004	10:29:07;	Bright;		38.0;	119;	14Eta Dra	;	2.73;	4700;	occ;	76;	0;	9681
16;	-1977.9;	06-JAN-2004	10:31:23;	Bright;		37.5;	130;	23Bet Dra	;	2.80;	5800;	occ;	75;	0;	9681
17;	-1707.9;	06-JAN-2004	10:35:53;	Bright;		65.0;	152;	12Alp2CVn	;	2.89;	11000;	occ;	130;	0;	9681
18;	-1447.2;	06-JAN-2004	10:40:14;	Bright;		47.5;	83;		;	2.38;	11000;	occ;	95;	0;	9681
19;	-1317.9;	06-JAN-2004	10:42:23;	Bright;		35.0;	59;	55Alp Oph	;	2.08;	8900;	occ;	70;	0;	9681
20;	-1167.1;	06-JAN-2004	10:44:54;	Bright;		63.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	126;	0;	9681
21;	-989.9;	06-JAN-2004	10:47:51;	Bright;		38.0;	120;	1Del Oph	;	2.73;	3200;	occ;	76;	0;	9681
22;	-808.6;	06-JAN-2004	10:50:52;	Bright;		44.5;	104;	27Bet Lib	;	2.61;	13100;	occ;	89;	0;	9681
23;	-662.8;	06-JAN-2004	10:53:18;	Dark	;	46.0;	80;	7Del Sco	;	2.32;	30000;	occ;	92;	0;	9681
24;	-367.3;	06-JAN-2004	10:58:14;	Dark	;	76.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	152;	0;	9681
25;	-216.3;	06-JAN-2004	11:00:44;	Dark	;	55.0;	54;	5The Cen	;	2.06;	4500;	occ;	110;	0;	9681
26;	18.7;	06-JAN-2004	11:04:40;	Dark	;	53.0;	4;	Alp1Cen	;	-0.01;	5800;	occ;	106;	0;	9682
27;	163.9;	06-JAN-2004	11:07:05;	Dark	;	46.0;	64;	Gam Cen	;	2.20;	10600;	occ;	92;	0;	9682
28;	265.0;	06-JAN-2004	11:08:46;	Dark	;	43.0;	12;	Alp1Cru	;	0.77;	30000;	occ;	86;	0;	9682
29;	420.5;	06-JAN-2004	11:11:21;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	9682
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33;	892.4;	06-JAN-2004	11:19:13;	Dark	;	58.5;	65;	Lam Vel	;	2.20;	4400;	occ;	117;	0;	9682
34;	995.0;	06-JAN-2004	11:20:56;	Dark	;	48.5;	2;	Alp Car	;	-0.74;	7000;	occ;	97;	0;	9682
35;	1080.3;	06-JAN-2004	11:22:21;	Dark	;	47.5;	70;	Zet Pup	;	2.25;	39000;	occ;	95;	0;	9682
36;	1193.0;	06-JAN-2004	11:24:14;	Dark	;	52.0;	117;	Pi Pup	;	2.71;	3800;	occ;	104;	0;	9682
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38;	1447.1;	06-JAN-2004	11:28:28;	Dark	;	42.0;	179;	240mi2CMA	;	3.03;	24000;	occ;	84;	0;	9682

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3;	-4588.7;	06-JAN-2004	16:30:16;	Dark	;	47.0;	179;	240mi2CMA	;	3.03;	24000;	occ;	94;	0;	9685
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5;	-4259.7;	06-JAN-2004	16:35:45;	Dark	;	49.5;	7;	19Bet Ori	;	0.10;	14000;	occ;	99;	0;	9685
6;	-4152.9;	06-JAN-2004	16:37:32;	Dark	;	48.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	97;	0;	9685
7;	-3981.0;	06-JAN-2004	16:40:24;	Dark	;	64.5;	8;	10Alp CMi	;	0.40;	6500;	occ;	129;	0;	9685
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12;	-3405.7;	06-JAN-2004	16:49:59;	Bright;		37.5;	149;	45Eps Per	;	2.89;	30000;	occ;	75;	0;	9685
13;	-3267.1;	06-JAN-2004	16:52:17;	Bright;		36.5;	175;	39Del Per	;	3.01;	19400;	occ;	73;	0;	9685
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15;	-2614.1;	06-JAN-2004	17:03:10;	Bright;		37.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	75;	0;	9685
16;	-2490.7;	06-JAN-2004	17:05:14;	Bright;		51.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	102;	0;	9685
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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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3;	-4829.7;	08-JAN-2004	18:44:12;	Dark	;	41.5;	117;	Pi Pup	;	2.71;	3800;	occ;	83;	0;	9715
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7;	-4253.0;	08-JAN-2004	18:53:49;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;	occ;	104;	0;	9715
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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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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
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26;	-1142.3;	08-JAN-2004	19:45:40;	Bright	;	73.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	146;	0;	9715
27;	-978.7;	08-JAN-2004	19:48:23;	Bright	;	39.0;	120;	1Del Oph	;	2.73;	3200;	occ;	78;	0;	9715
28;	-789.1;	08-JAN-2004	19:51:33;	Dark	;	46.0;	104;	27Bet Lib	;	2.61;	13100;	occ;	92;	0;	9715
29;	-650.4;	08-JAN-2004	19:53:52;	Dark	;	46.5;	80;	7Del Sco	;	2.32;	30000;	occ;	93;	0;	9715
30;	-305.3;	08-JAN-2004	19:59:37;	Dark	;	82.5;	15;	67Alp Vir	;	0.98;	28000;	occ;	165;	0;	9715
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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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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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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
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33;-124.2; 10-JAN-2004 20:39:59; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0; 9744
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8;-3550.6; 11-JAN-2004 07:27:04; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0; 9751
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22;-878.9; 11-JAN-2004 08:11:36; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0; 9751
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26;-119.7; 11-JAN-2004 08:24:15; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0; 9751
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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
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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
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13;	-2613.1;	11-JAN-2004	11:03:53;	Bright;		38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;	9753
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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
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22;	-1108.5;	11-JAN-2004	11:28:58;	Bright;		78.5;	111;	8Eta Boo	;	2.68;	6000;occ;	157;	0;	9753
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29;	344.4;	11-JAN-2004	11:53:11;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	9754
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32;	701.7;	11-JAN-2004	11:59:08;	Dark	;	50.0;	71;	Iot Car	;	2.25;	7700;occ;	100;	0;	9754
33;	782.9;	11-JAN-2004	12:00:29;	Dark	;	51.0;	41;	Eps Car	;	1.86;	4100;occ;	102;	0;	9754
34;	1010.6;	11-JAN-2004	12:04:17;	Dark	;	46.0;	2;	Alp Car	;	-0.74;	7000;occ;	92;	0;	9754
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8;	-3842.0;	11-JAN-2004	17:25:48;	Dark	;	44.0;	44;	24Gam Gem	;	1.93;	11000;occ;	88;	0;	9757
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13;	-3242.3;	11-JAN-2004	17:35:48;	Bright;		37.5;	175;	39Del Per	;	3.01;	19400;occ;	75;	0;	9757
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18;	-2197.4;	11-JAN-2004	17:53:13;	Bright;		53.0;	32;	77Eps UMa	;	1.76;	11000;occ;	106;	0;	9757
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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
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31;	42.0;	27-JAN-2004	20:08:14;	Dark	;	47.0;	78;	Alp	Lup	;	2.30;	28000;occ;	94;	0;	9988
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18;	-1340.8;	28-JAN-2004	07:29:22;	Bright;		80.5;	83;			;	2.38;	11000;occ;	161;	0;	9994
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23;	-348.0;	28-JAN-2004	07:45:55;	Dark	;	46.0;	40;	The	Sco	;	1.86;	7100;occ;	92;	0;	9994
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26;	-37.9;	28-JAN-2004	07:51:05;	Dark	;	47.0;	109;	Bet	Lup	;	2.68;	26000;occ;	94;	0;	9994
27;	50.3;	28-JAN-2004	07:52:34;	Dark	;	48.0;	78;	Alp	Lup	;	2.30;	28000;occ;	96;	0;	9995
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