

GOMOS Daily Report 15-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	16JAN2004 06:51:35
Data source version	<Any version>
Start time of products	15-JAN-2004 (15JAN2004 00:00:00)
Stop time of products	16-JAN-2004 (16JAN2004 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

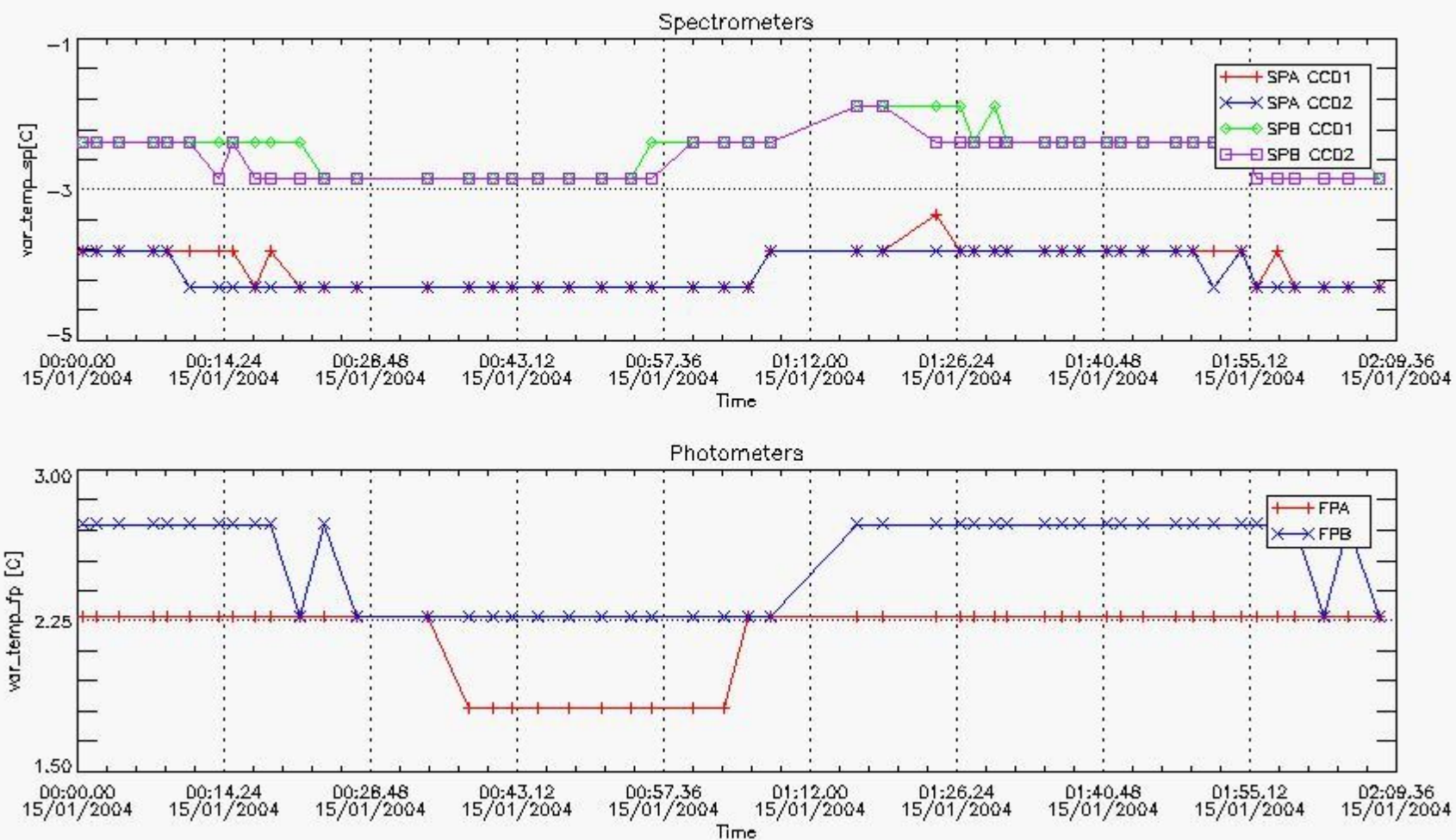
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040115_000027_000000432023_00231_09804_0000.N1	15-JAN-2004 00:00:27	Dark	43.000	23	21Eps CMa	1.5020	26000.	86	9804	No
GOM_TRA_1PNPDE20040115_000152_000000442023_00231_09804_0001.N1	15-JAN-2004 00:01:52	Dark	43.500	179	24Omi2CMa	3.0320	24000.	87	9804	No
GOM_TRA_1PNPDE20040115_000407_000000482023_00231_09804_0002.N1	15-JAN-2004 00:04:07	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	9804	No
GOM_TRA_1PNPDE20040115_000723_000000462023_00231_09804_0003.N1	15-JAN-2004 00:07:23	Dark	46.000	7	19Bet Ori	0.10000	14000.	92	9804	No
GOM_TRA_1PNPDE20040115_000848_000000432023_00231_09804_0004.N1	15-JAN-2004 00:08:48	Dark	43.000	33	50Zet Ori	1.7660	30000.	86	9804	No
GOM_TRA_1PNPDE20040115_001057_000000602023_00231_09804_0005.N1	15-JAN-2004 00:10:57	Dark	59.500	8	10Alp CMi	0.40000	6500.0	119	9804	No
GOM_TRA_1PNPDE20040115_001351_000000502023_00231_09804_0006.N1	15-JAN-2004 00:13:51	Dark	50.000	44	24Gam Gem	1.9280	11000.	100	9804	No
GOM_TRA_1PNPDE20040115_001515_000000372023_00231_09804_0007.N1	15-JAN-2004 00:15:15	Bright	37.000	176	23Zet Tau	3.0200	22000.	74	9804	No
GOM_TRA_1PNPDE20040115_001723_000000392023_00231_09804_0008.N1	15-JAN-2004 00:17:23	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	9804	No
GOM_TRA_1PNPDE20040115_001857_000000382023_00231_09804_0009.N1	15-JAN-2004 00:18:57	Bright	38.000	114	3Iot Aur	2.6930	4600.0	76	9804	No
GOM_TRA_1PNPDE20040115_002152_000000382023_00231_09804_0010.N1	15-JAN-2004 00:21:52	Bright	38.000	42	34Bet Aur	1.9000	10200.	76	9804	No
GOM_TRA_1PNPDE20040115_002414_000000382023_00231_09804_0011.N1	15-JAN-2004 00:24:14	Bright	37.500	175	39Del Per	3.0100	19400.	75	9804	No
GOM_TRA_1PNPDE20040115_002726_000001212023_00231_09804_0012.N1	15-JAN-2004 00:27:26	Bright	120.50	166	17Eps Leo	2.9800	6000.0	241	9804	No
GOM_TRA_1PNPDE20040115_003425_000000342023_00231_09804_0013.N1	15-JAN-2004 00:34:25	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	9804	No
GOM_TRA_1PNPDE20040115_003826_000000412023_00231_09804_0014.N1	15-JAN-2004 00:38:26	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	9804	No
GOM_TRA_1PNPDE20040115_004053_000000542023_00231_09804_0015.N1	15-JAN-2004 00:40:53	Bright	53.500	32	77Eps UMa	1.7630	11000.	107	9804	No
GOM_TRA_1PNPDE20040115_004243_000000382023_00231_09804_0016.N1	15-JAN-2004 00:42:43	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	9804	No
GOM_TRA_1PNPDE20040115_004515_000000372023_00231_09804_0017.N1	15-JAN-2004 00:45:15	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	9804	No
GOM_TRA_1PNPDE20040115_004820_000000392023_00231_09804_0018.N1	15-JAN-2004 00:48:20	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	9804	No
GOM_TRA_1PNPDE20040115_005131_000000392023_00231_09804_0019.N1	15-JAN-2004 00:51:31	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	9804	No
GOM_TRA_1PNPDE20040115_005422_000000572023_00231_09804_0020.N1	15-JAN-2004 00:54:22	Bright	56.500	83		2.3780	11000.	113	9804	No
GOM_TRA_1PNPDE20040115_005620_000000362023_00231_09804_0021.N1	15-JAN-2004 00:56:20	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	9804	No
GOM_TRA_1PNPDE20040115_010025_000000922023_00231_09804_0022.N1	15-JAN-2004 01:00:25	Dark	91.500	111	8Eta Boo	2.6800	6000.0	183	9804	No
GOM_TRA_1PNPDE20040115_010335_000000532023_00231_09804_0023.N1	15-JAN-2004 01:03:35	Bright	53.000	98	13Zet Oph	2.5710	30000.	106	9804	No
GOM_TRA_1PNPDE20040115_010549_000000512023_00231_09804_0024.N1	15-JAN-2004 01:05:49	Dark	50.500	104	27Bet Lib	2.6140	13100.	101	9804	No
GOM_TRA_1PNPDE20040115_010803_000000462023_00231_09804_0025.N1	15-JAN-2004 01:08:03	Dark	46.000	16	21Alp Sco	1.0200	3000.0	92	9804	No
GOM_TRA_1PNPDE20040115_011630_000000432023_00231_09804_0026.N1	15-JAN-2004 01:16:30	Dark	42.500	78	Alp Lup	2.3040	28000.	85	9804	No
GOM_TRA_1PNPDE20040115_011908_000000422023_00232_09805_0027.N1	15-JAN-2004 01:19:08	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	9805	No
GOM_TRA_1PNPDE20040115_012417_000000482023_00232_09805_0028.N1	15-JAN-2004 01:24:17	Dark	47.500	99	Del Cen	2.5750	26000.	95	9805	No
GOM_TRA_1PNPDE20040115_012645_000000422023_00232_09805_0029.N1	15-JAN-2004 01:26:45	Dark	42.000	124	The Car	2.7640	30000.	84	9805	No
GOM_TRA_1PNPDE20040115_012808_000000422023_00232_09805_0030.N1	15-JAN-2004 01:28:08	Dark	42.000	29	Bet Car	1.6720	10200.	84	9805	No
GOM_TRA_1PNPDE20040115_013003_000000432023_00232_09805_0031.N1	15-JAN-2004 01:30:03	Dark	42.500	71	Iot Car	2.2460	7700.0	85	9805	No
GOM_TRA_1PNPDE20040115_013119_000000482023_00232_09805_0032.N1	15-JAN-2004 01:31:19	Dark	48.000	41	Eps Car	1.8600	4100.0	96	9805	No
GOM_TRA_1PNPDE20040115_013457_000000522023_00232_09805_0033.N1	15-JAN-2004 01:34:57	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	9805	No
GOM_TRA_1PNPDE20040115_013648_000000452023_00232_09805_0034.N1	15-JAN-2004 01:36:48	Dark	45.000	70	Zet Pup	2.2460	39000.	90	9805	No
GOM_TRA_1PNPDE20040115_013828_000000492023_00232_09805_0035.N1	15-JAN-2004 01:38:28	Dark	49.000	117	Pi Pup	2.7060	3800.0	98	9805	No
GOM_TRA_1PNPDE20040115_014103_000000452023_00232_09805_0000.N1	15-JAN-2004 01:41:03	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	9805	No
GOM_TRA_1PNPDE20040115_014226_000000452023_00232_09805_0001.N1	15-JAN-2004 01:42:26	Dark	44.500	179	24Omi2CMa	3.0320	24000.	89	9805	No
GOM_TRA_1PNPDE20040115_014443_000000502023_00232_09805_0002.N1	15-JAN-2004 01:44:43	Dark	49.500	1	9Alp CMa	-1.4400	11000.	99	9805	No
GOM_TRA_1PNPDE20040115_014759_000000522023_00232_09805_0003.N1	15-JAN-2004 01:47:59	Dark	52.000	7	19Bet Ori	0.10000	14000.	104	9805	No
GOM_TRA_1PNPDE20040115_014937_000000462023_00232_09805_0004.N1	15-JAN-2004 01:49:37	Dark	46.000	30	46Eps Ori	1.6940	30000.	92	9805	No
GOM_TRA_1PNPDE20040115_015133_000000632023_00232_09805_0005.N1	15-JAN-2004 01:51:33	Dark	63.000	8	10Alp CMi	0.40000	6500.0	126	9805	No
GOM_TRA_1PNPDE20040115_015425_000000442023_00232_09805_0006.N1	15-JAN-2004 01:54:25	Dark	43.500	44	24Gam Gem	1.9280	11000.	87	9805	No
GOM_TRA_1PNPDE20040115_015550_000000382023_00232_09805_0007.N1	15-JAN-2004 01:55:50	Bright	38.000	176	23Zet Tau	3.0200	22000.	76	9805	No
GOM_TRA_1PNPDE20040115_015758_000000392023_00232_09805_0008.N1	15-JAN-2004 01:57:58	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	9805	No
GOM_TRA_1PNPDE20040115_015932_000000392023_00232_09805_0009.N1	15-JAN-2004 01:59:32	Bright	39.000	114	3Iot Aur	2.6930	4600.0	78	9805	No
GOM_TRA_1PNPDE20040115_020227_000000402023_00232_09805_0010.N1	15-JAN-2004 02:02:27	Bright	40.000	42	34Bet Aur	1.9000	10200.	80	9805	No
GOM_TRA_1PNPDE20040115_020450_000000372023_00232_09805_0011.N1	15-JAN-2004 02:04:50	Bright	37.000	175	39Del Per	3.0100	19400.	74	9805	No
GOM_TRA_1PNPDE20040115_020759_000001242023_00232_09805_0012.N1	15-JAN-2004 02:07:59	Bright	123.50	166	17Eps Leo	2.9800	6000.0	247	9805	No

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



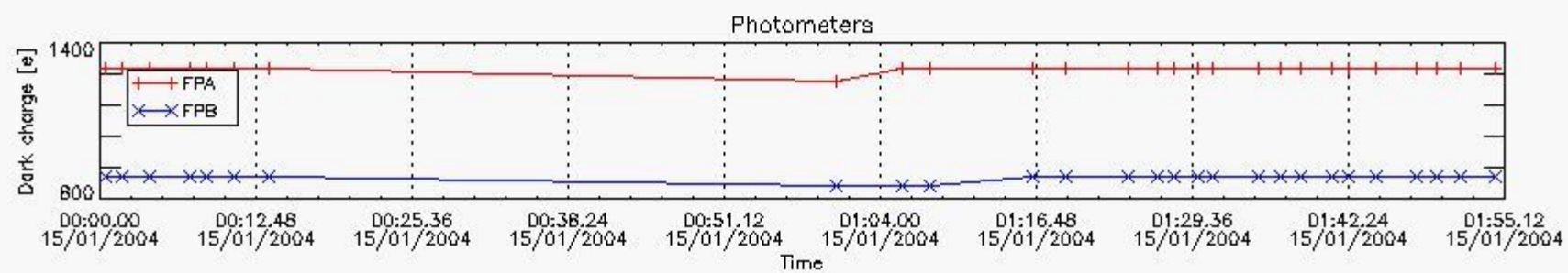
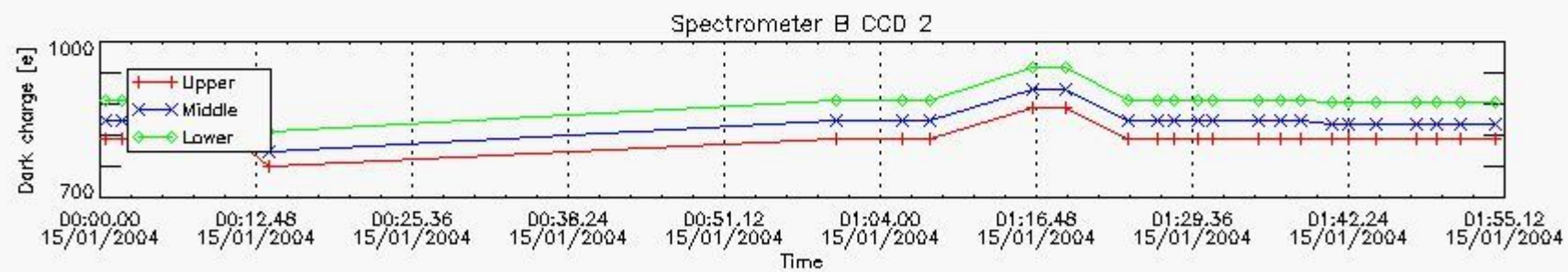
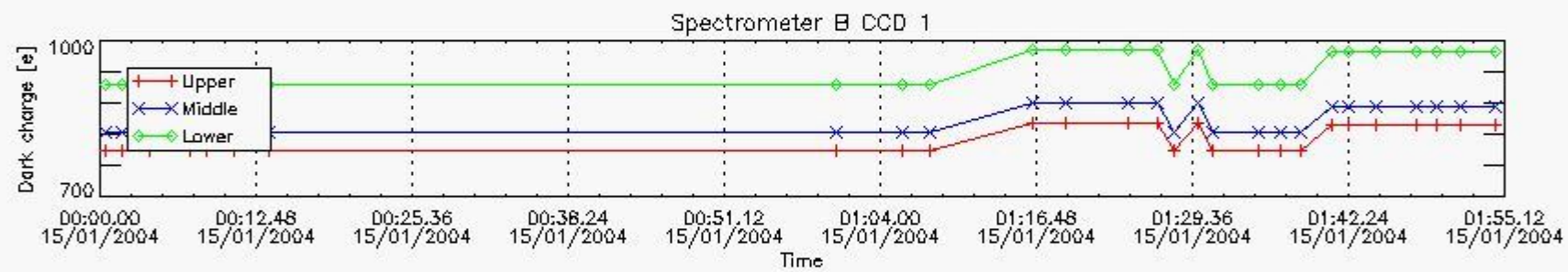
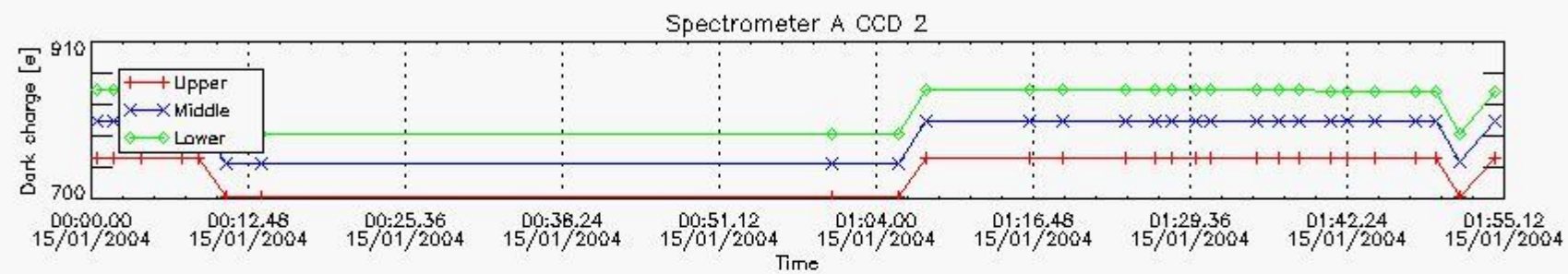
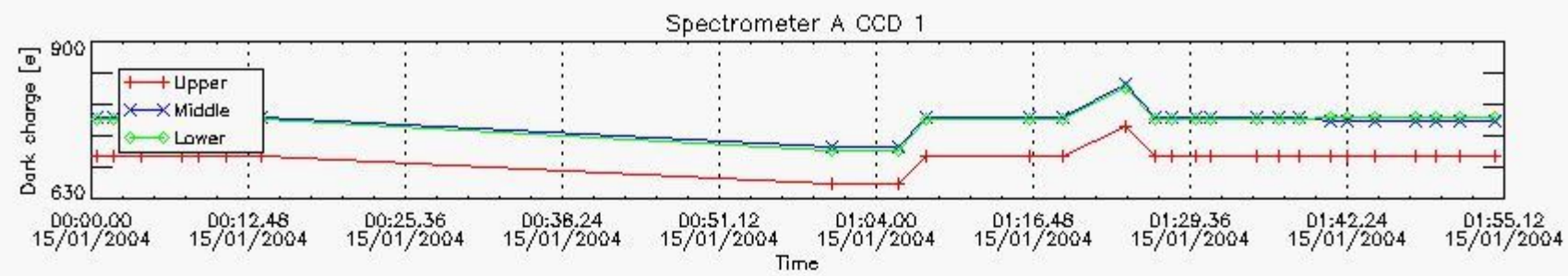
4. Overview of dark signal processing per product

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

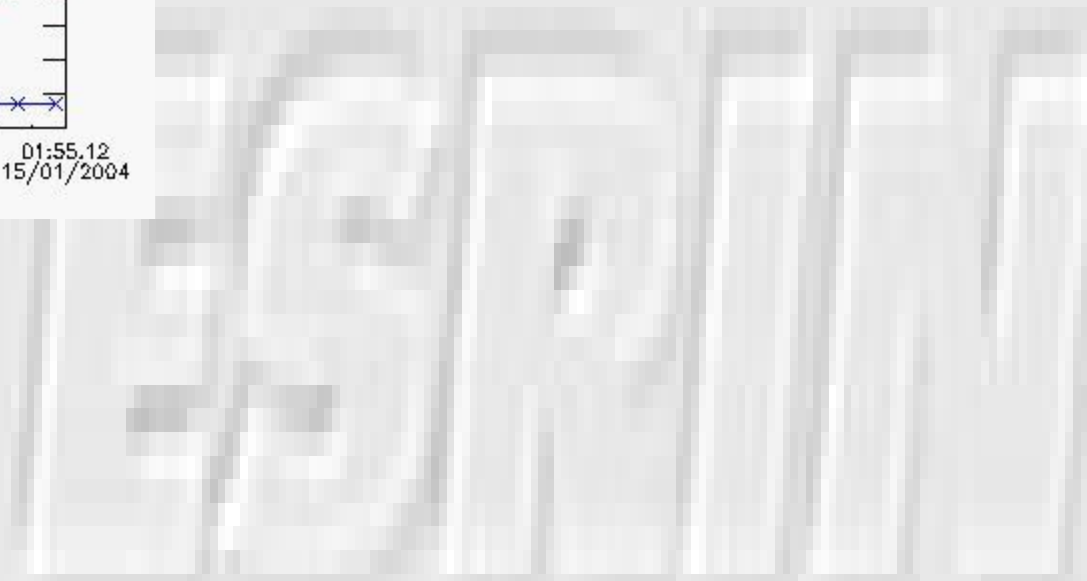
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



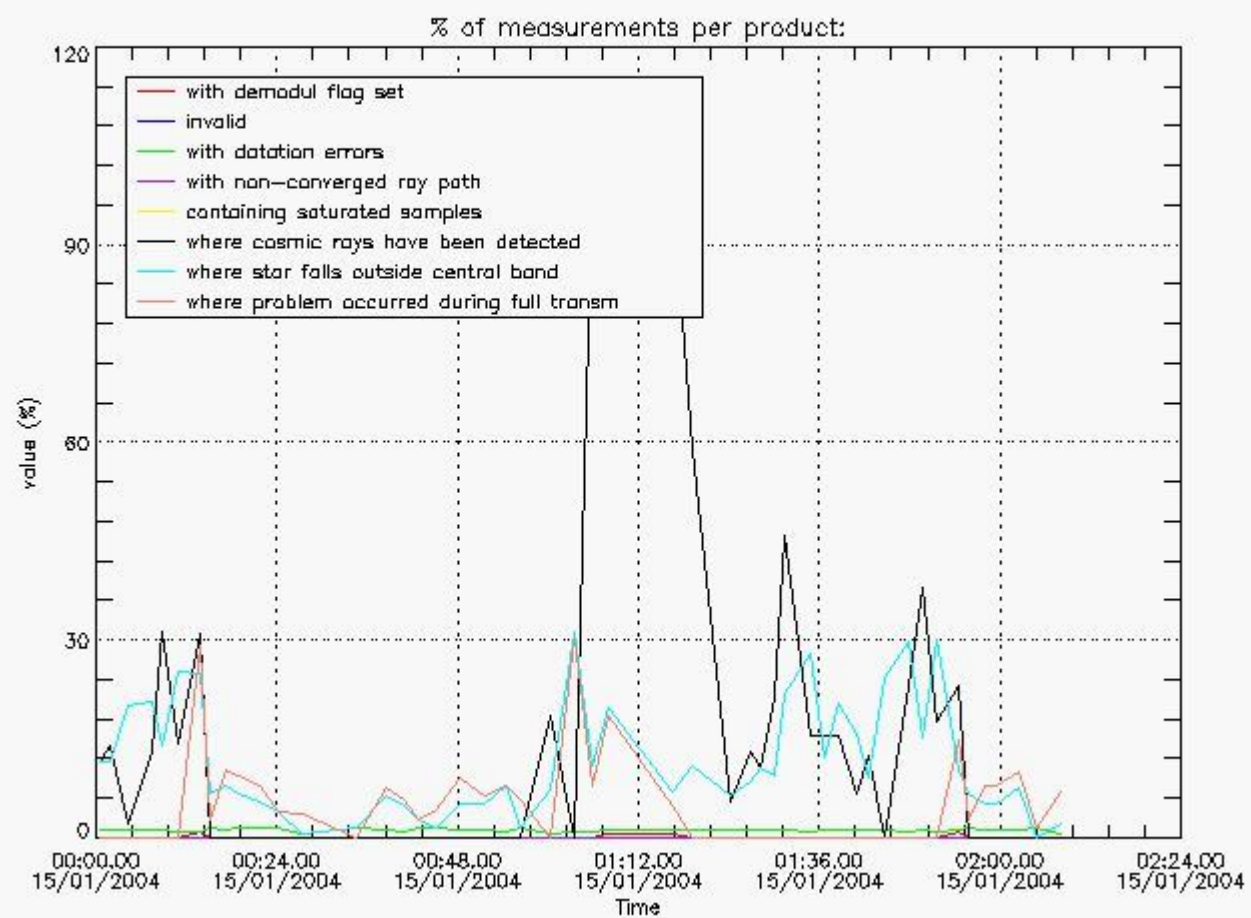
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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



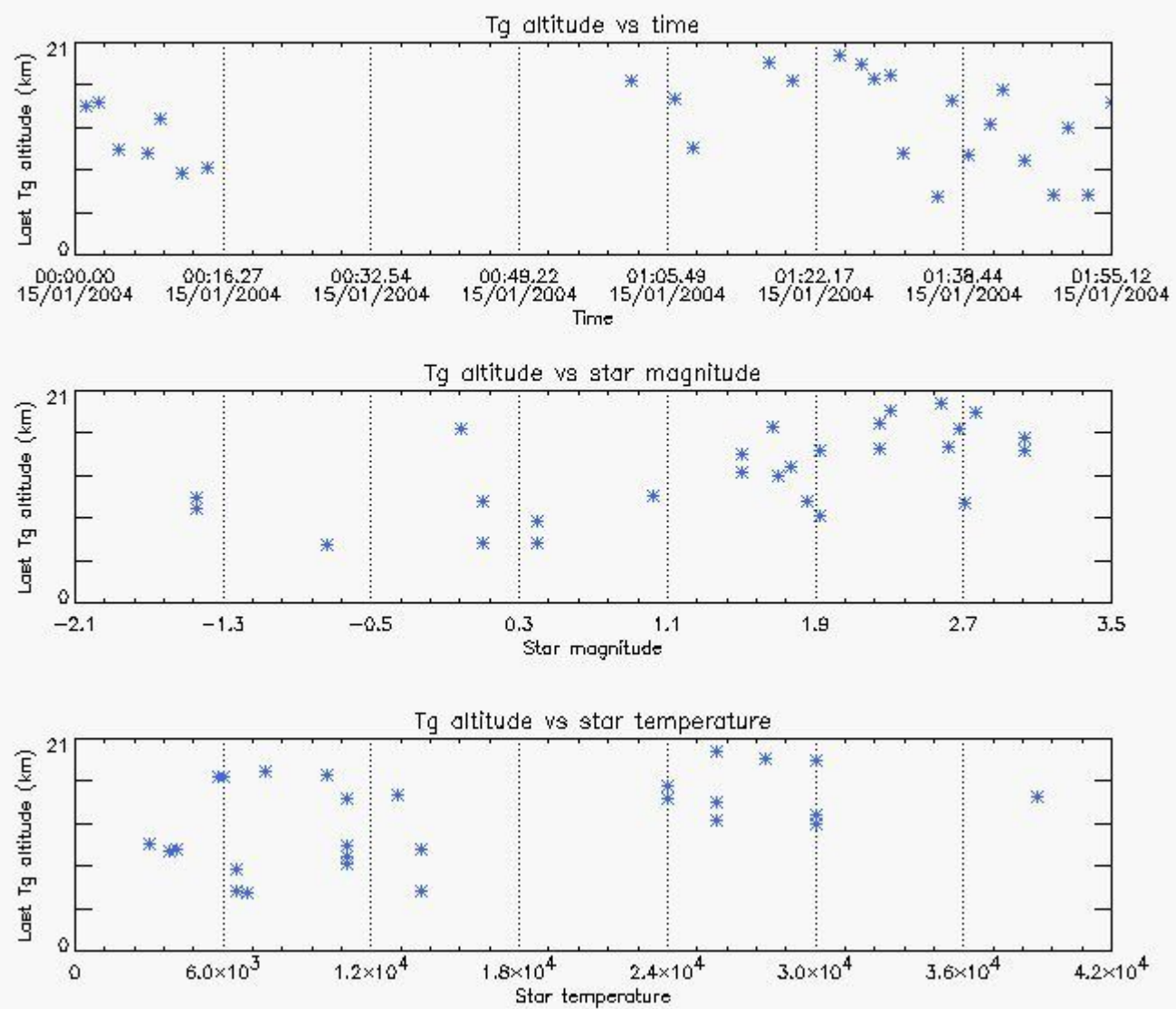
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.056	20.509
St. deviation:	4.2838	4.3551
Maximum:	19.677	28.449
Minimum:	5.6789	5.6086
Number of data:	27.000	22.000

6.2 Plot for DARK limb products

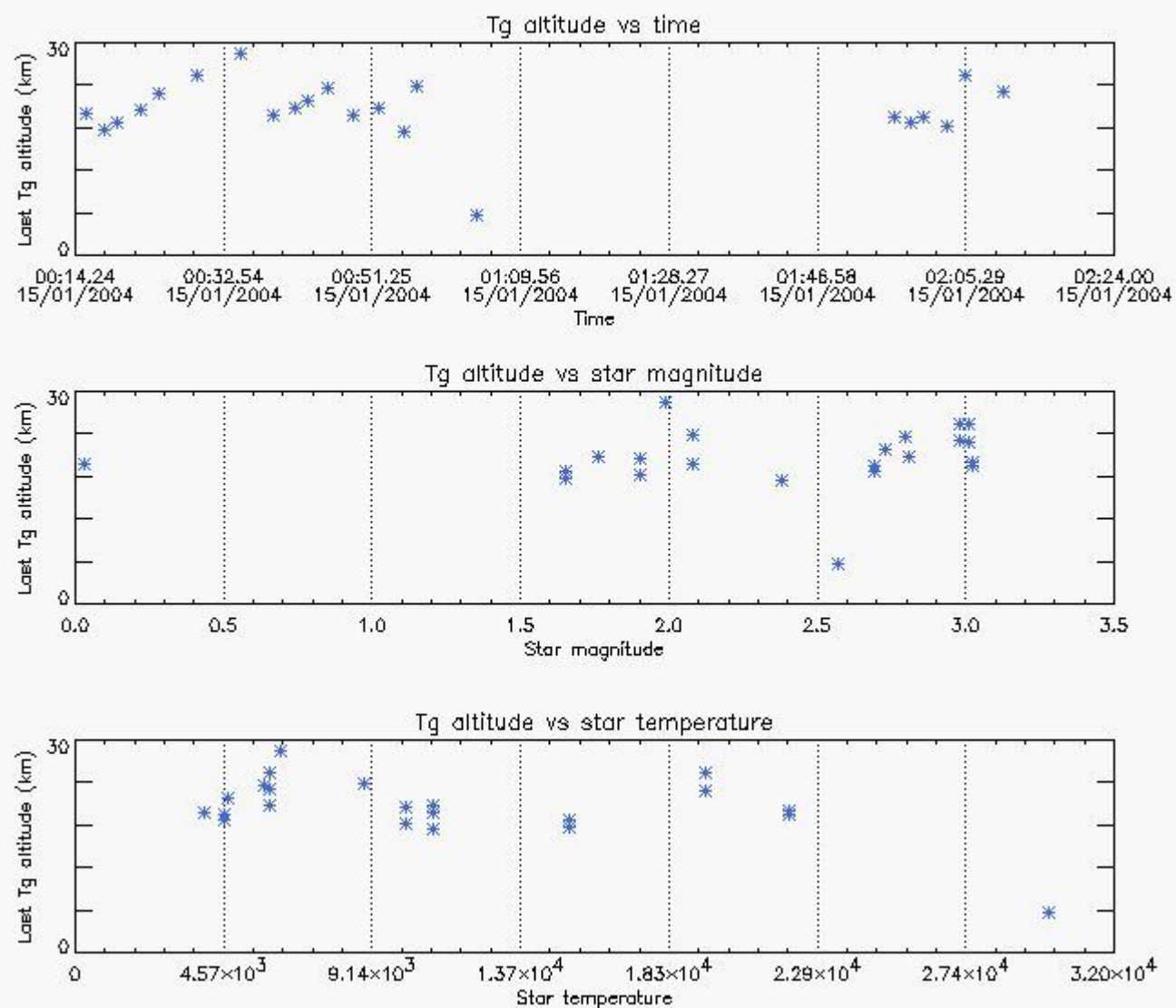
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



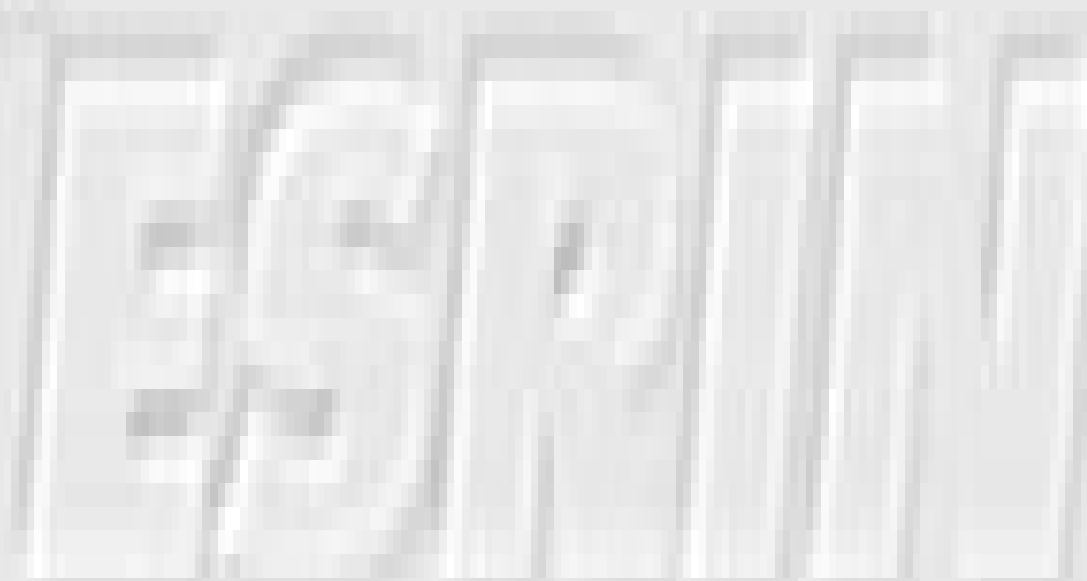
Tangent altitude at which the star is lost



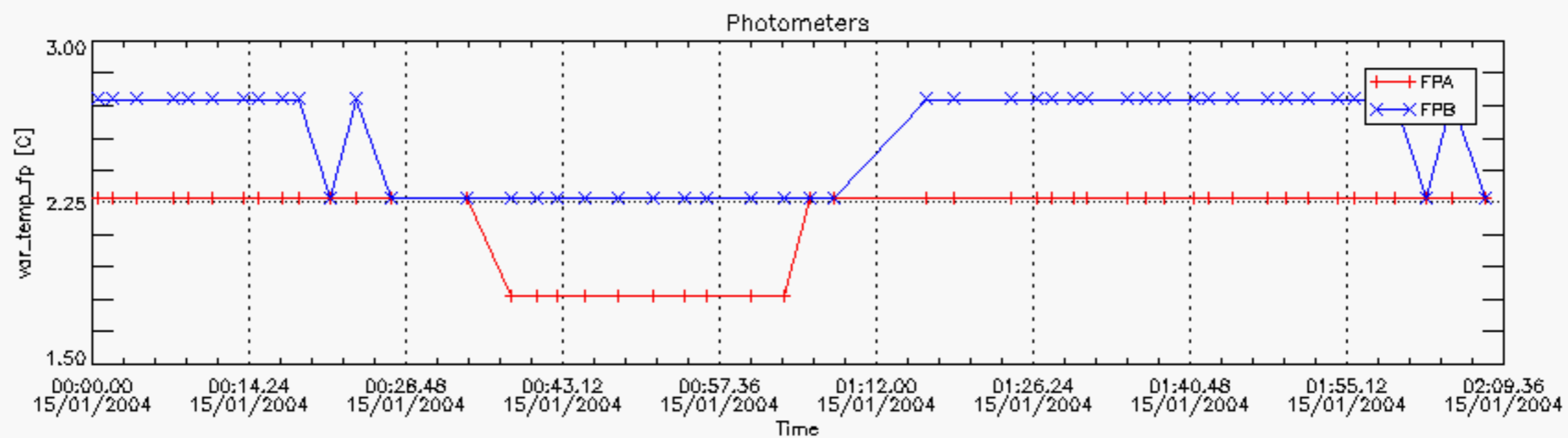
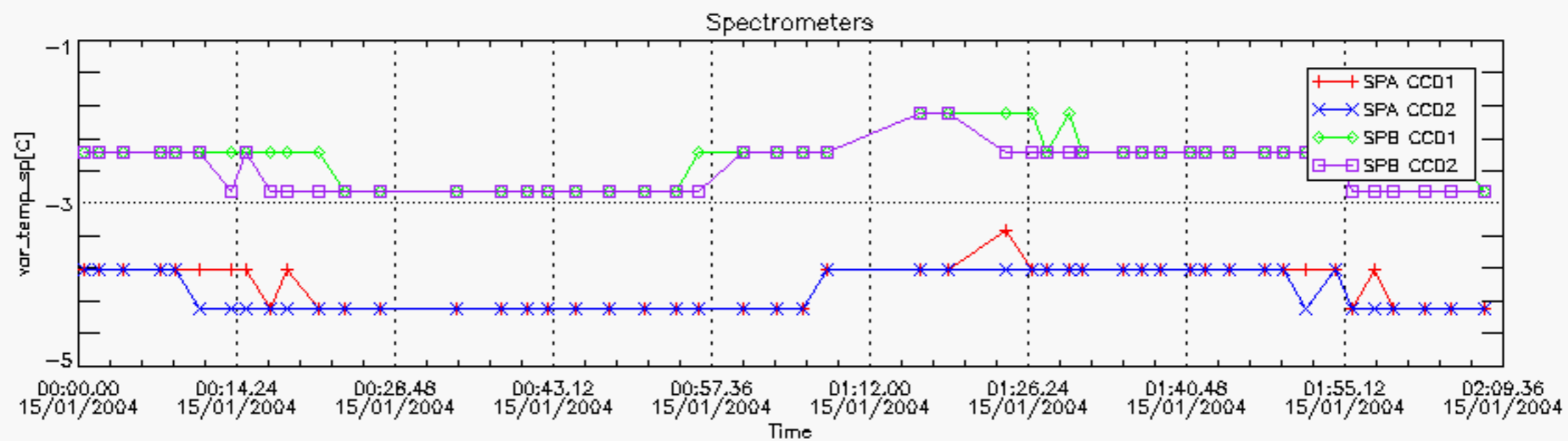
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

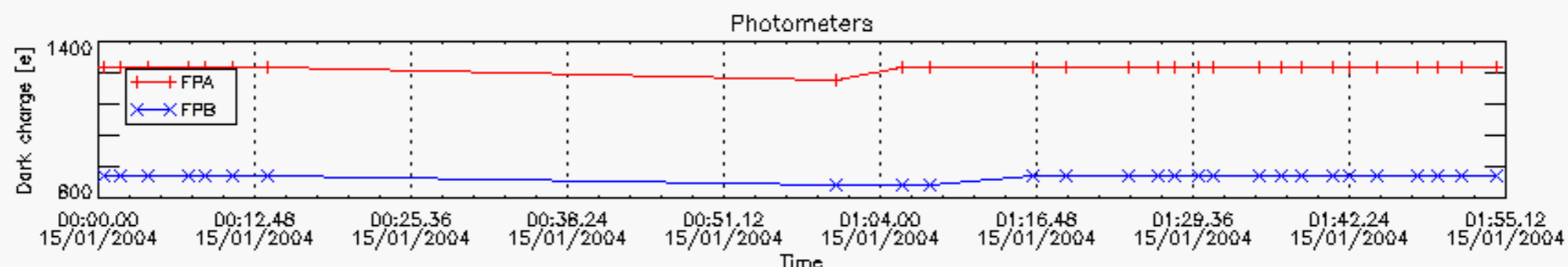
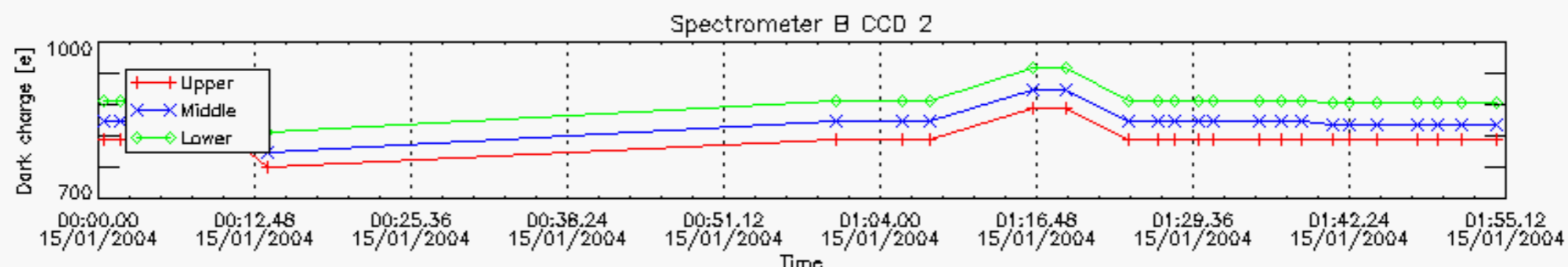
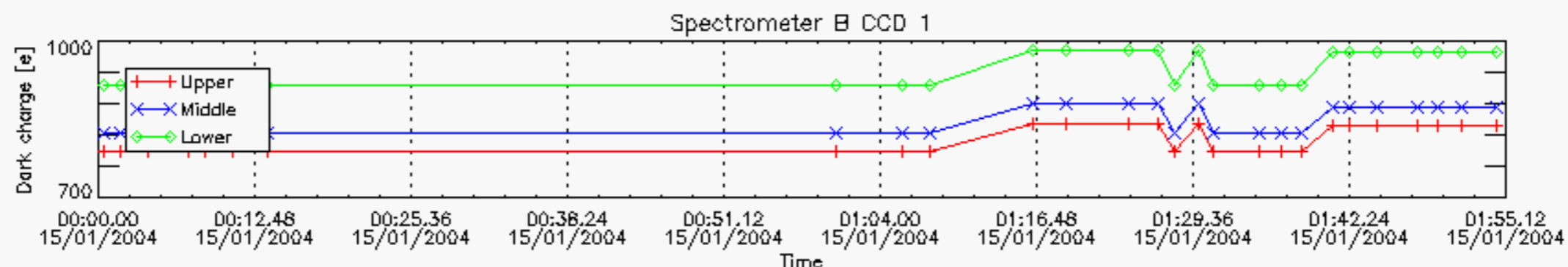
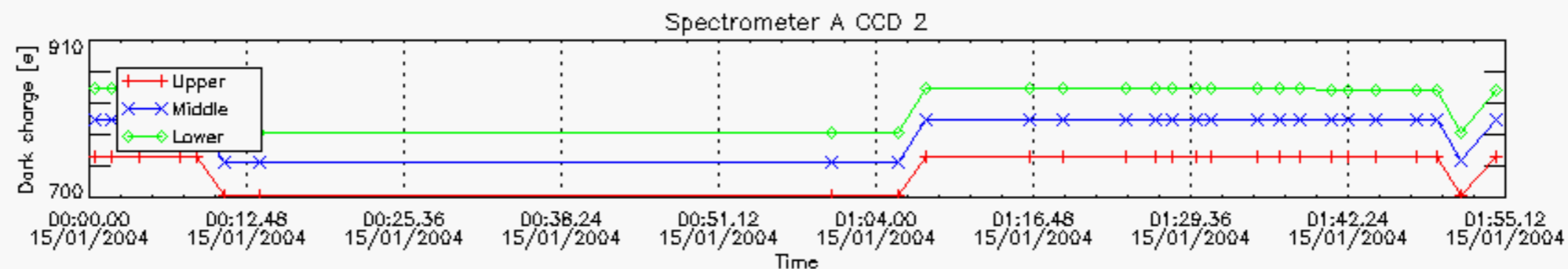
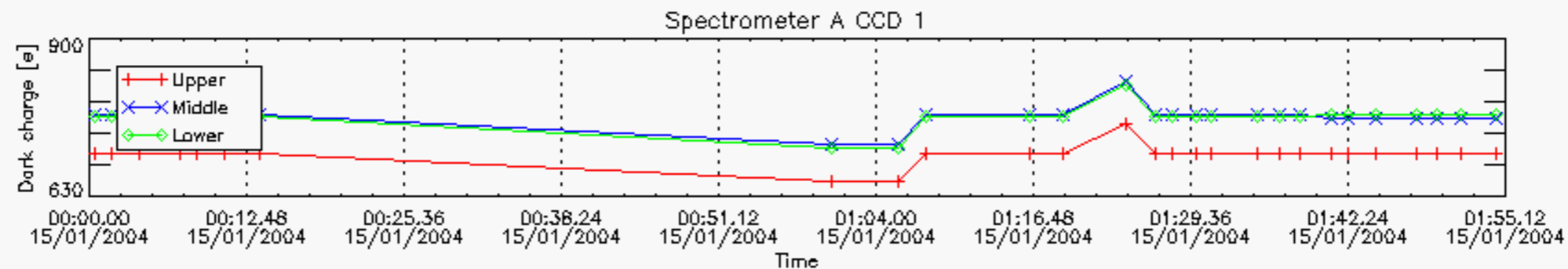
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

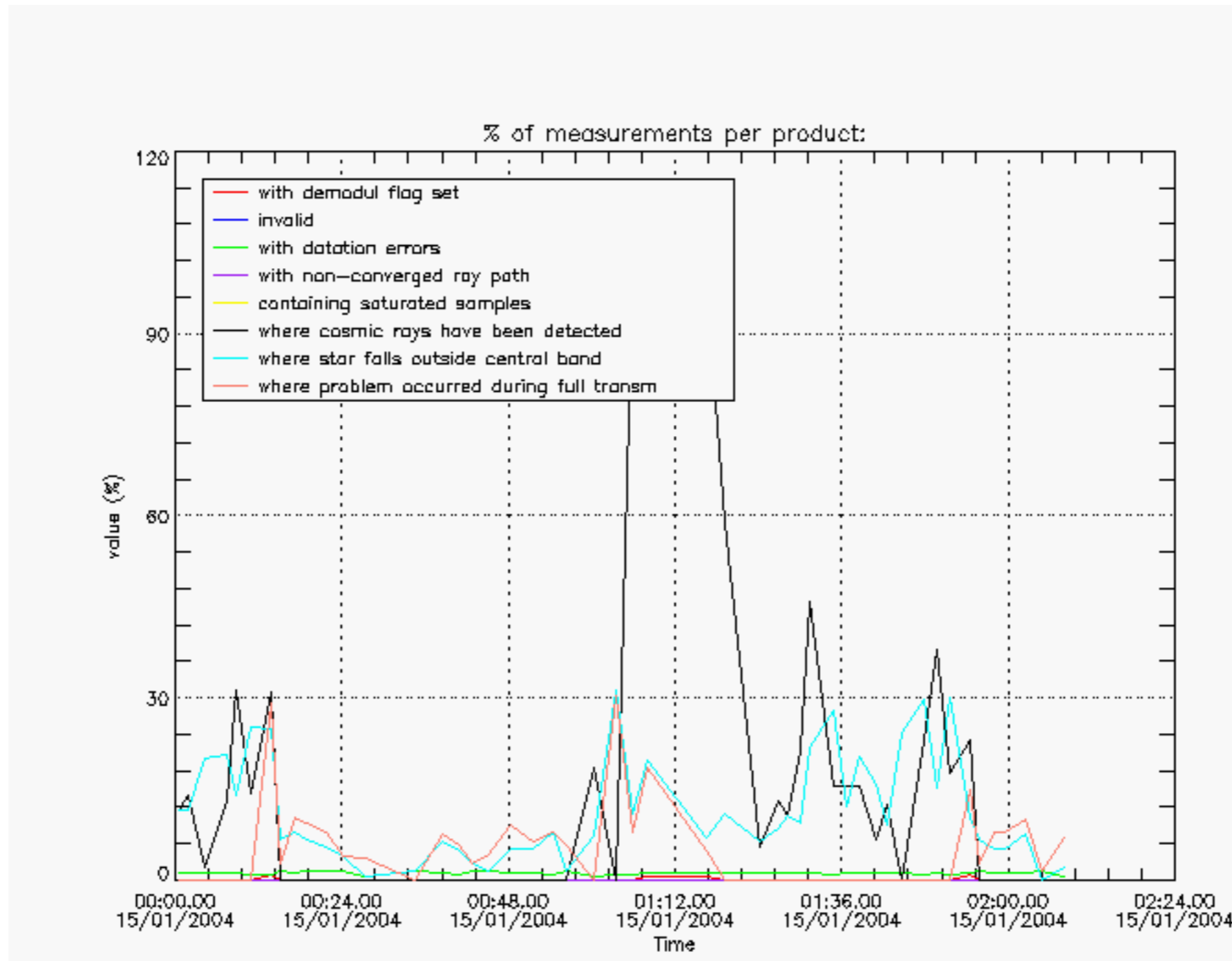
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.4	1446.9	1460.5	1446.8
St. deviation:	4.8720	6.3698	7.8329	9.0979
Maximum:	1502.0	1484.0	1513.0	1503.0
Minimum:	1445.0	1420.0	1422.0	1423.0
Number of data:	31950.	31950.	27350.	27350.



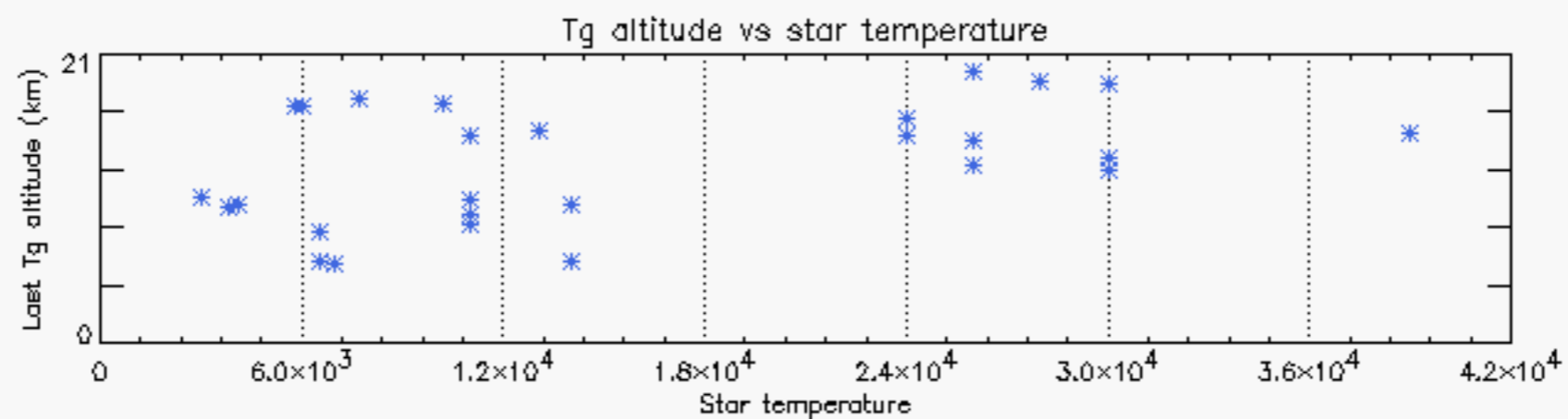
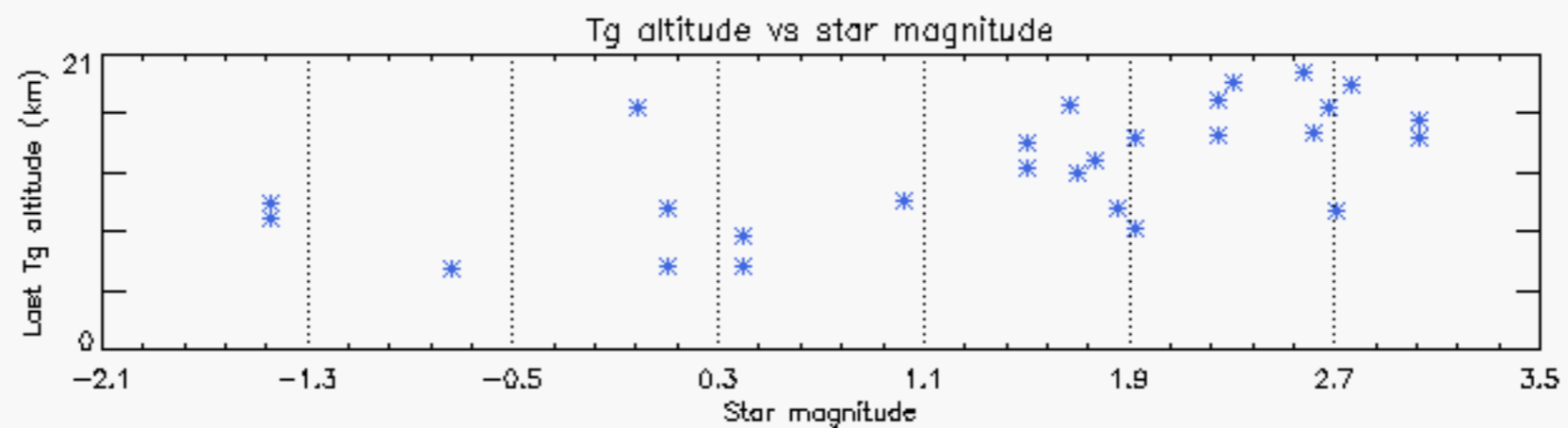
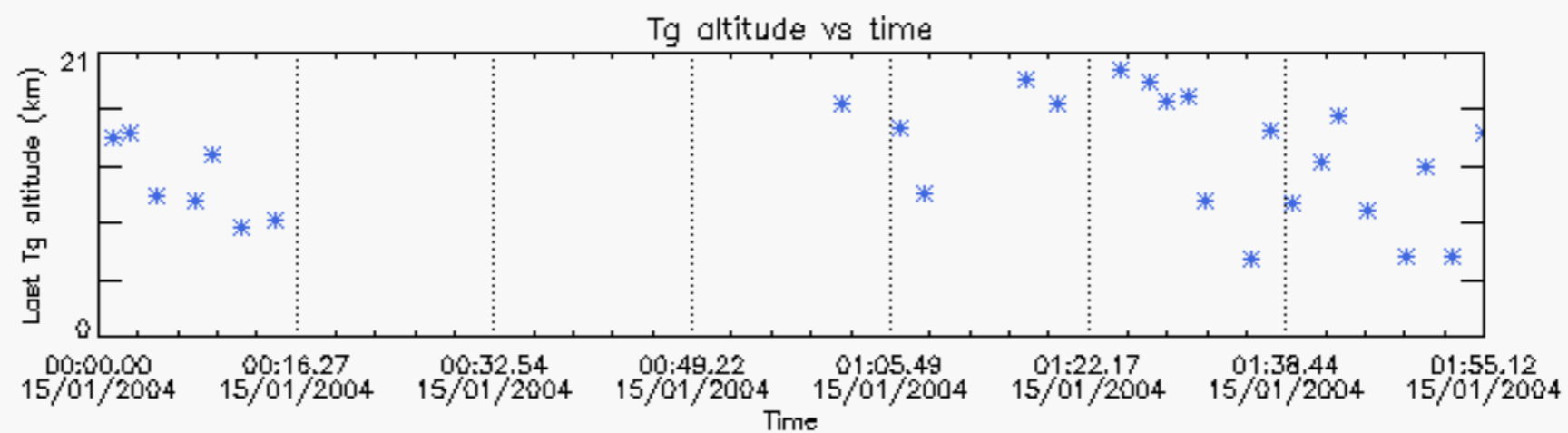




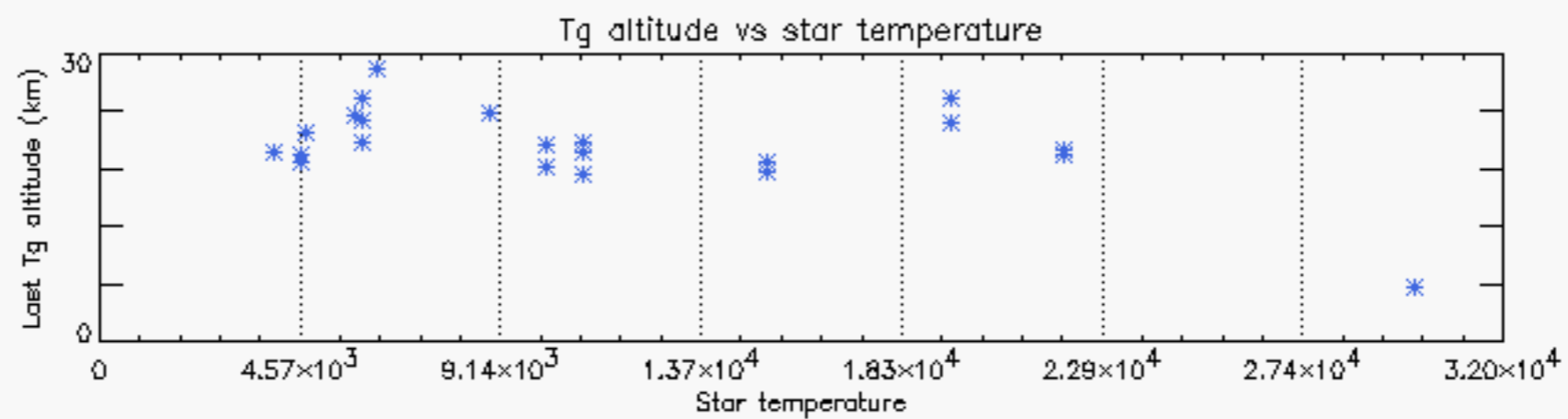
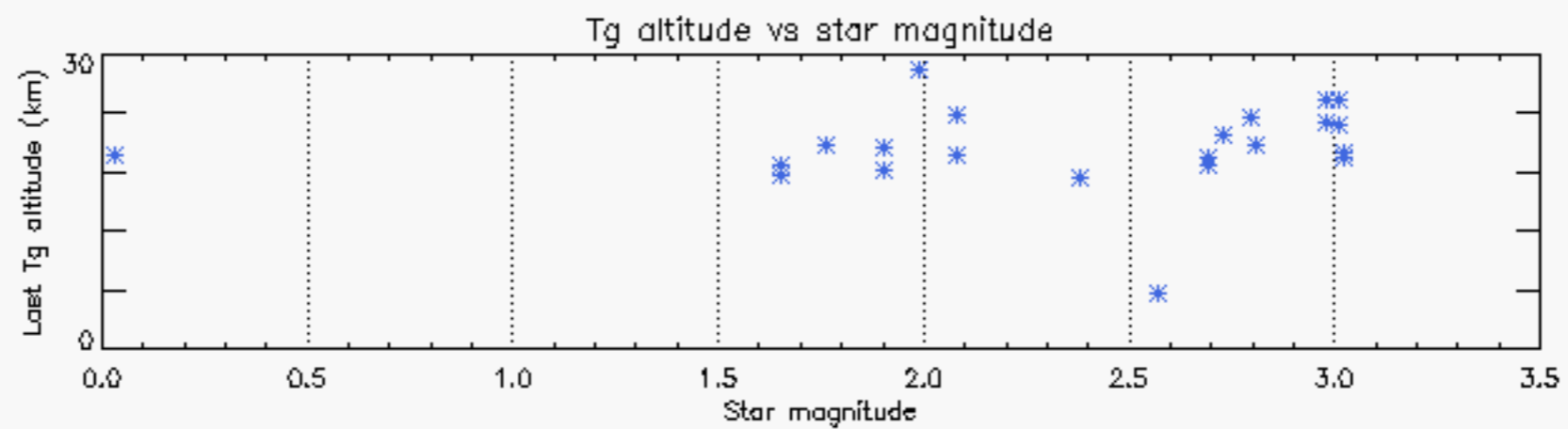
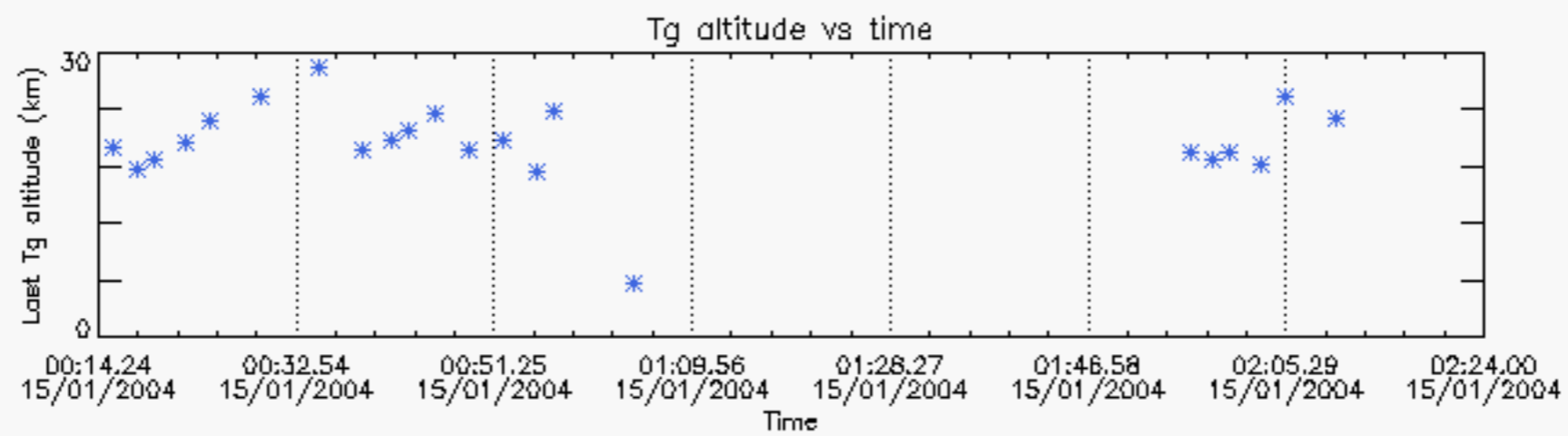




Tangent altitude at which the star is lost



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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25;	-106.2;	01-JAN-2004	06:58:17;	Dark	;	42.0;	95;	Zet Cen	;	2.55;	26000;occ;	84;	0;	9607
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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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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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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
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22;	-808.6;	06-JAN-2004	10:50:52;	Bright;		44.5;	104;	27Bet Lib	;	2.61;	13100;	occ;	89;	0;	9681
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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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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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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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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
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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
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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
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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
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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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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
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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
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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
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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
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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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 34; 504.7; 11-JAN-2004 18:38:15; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0; 9758
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33; 1430.1; 31-JAN-2004 08:21:18; Dark ; 43.5; 23; 21Eps CMa ; 1.50; 26000;occ; 87; 0;10038
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