

GOMOS Daily Report 12-APR-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	13APR2004 14:42:59
Data source version	GOMOS/4.02
Start time of products	12-APR-2004 (12APR2004 00:00:00)
Stop time of products	13-APR-2004 (13APR2004 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

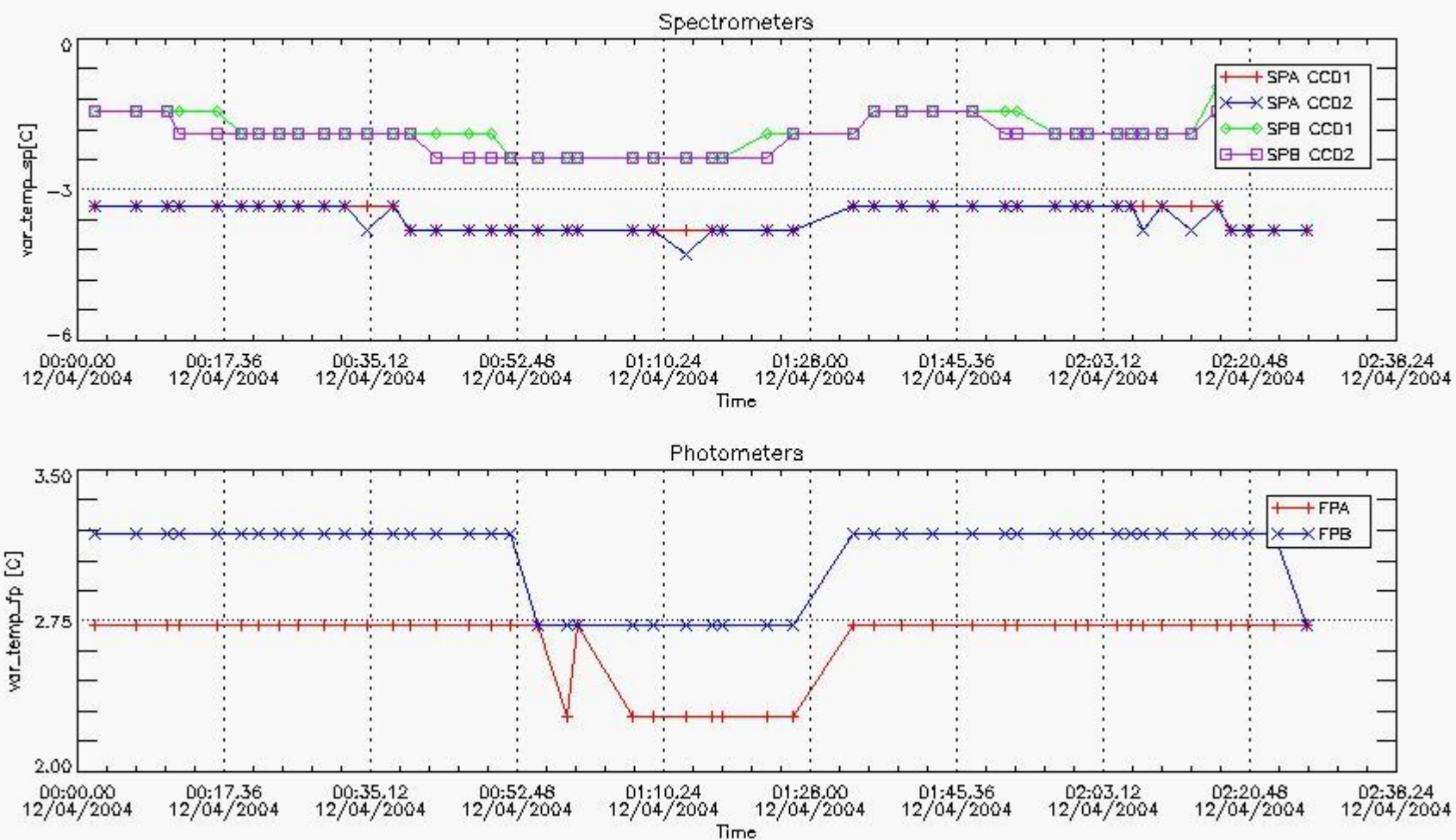
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040412_000205_000000452025_00488_11063_0022.N1	12-APR-2004 00:02:05	Dark	44.500	18	24Alp PsA	1.1660	9700.0	89	11063	No
GOM_TRA_1PNPDE20040412_000657_000000472025_00488_11063_0023.N1	12-APR-2004 00:06:57	Dark	46.500	63	Bet Gru	2.1500	2800.0	93	11063	No
GOM_TRA_1PNPDE20040412_001047_000000402025_00488_11063_0024.N1	12-APR-2004 00:10:47	Dark	40.000	148	Alp Tuc	2.8780	4100.0	80	11063	No
GOM_TRA_1PNPDE20040412_001215_000000412025_00489_11064_0025.N1	12-APR-2004 00:12:15	Dark	40.500	45	Alp Pav	1.9400	26000.	81	11064	No
GOM_TRA_1PNPDE20040412_001645_000000632025_00489_11064_0026.N1	12-APR-2004 00:16:45	Dark	62.500	38	20Eps Sgr	1.8360	11000.	125	11064	No
GOM_TRA_1PNPDE20040412_001945_000000552025_00489_11064_0027.N1	12-APR-2004 00:19:45	Dark	55.000	40	The Sco	1.8590	7100.0	110	11064	No
GOM_TRA_1PNPDE20040412_002144_000000422025_00489_11064_0028.N1	12-APR-2004 00:21:44	Dark	41.500	134	Bet TrA	2.8100	6600.0	83	11064	No
GOM_TRA_1PNPDE20040412_002412_000000492025_00489_11064_0029.N1	12-APR-2004 00:24:12	Dark	49.000	4	Alp1Cen	-0.010000	5800.0	98	11064	No
GOM_TRA_1PNPDE20040412_002630_000000432025_00489_11064_0030.N1	12-APR-2004 00:26:30	Dark	43.000	20	Bet Cru	1.2530	30000.	86	11064	No
GOM_TRA_1PNPDE20040412_002931_000001142025_00489_11064_0031.N1	12-APR-2004 00:29:31	Dark	114.00	16	21Alp Sco	1.0200	3000.0	228	11064	No
GOM_TRA_1PNPDE20040412_003210_000000422025_00489_11064_0032.N1	12-APR-2004 00:32:10	Dark	42.000	123	lot Cen	2.7500	10200.	84	11064	No
GOM_TRA_1PNPDE20040412_003443_000001042025_00489_11064_0000.N1	12-APR-2004 00:34:43	Dark	104.00	97	8Bet1Sco	2.5610	30000.	208	11064	No
GOM_TRA_1PNPDE20040412_003753_000000652025_00489_11064_0001.N1	12-APR-2004 00:37:53	Dark	65.000	122	9Alp2Lib	2.7470	9700.0	130	11064	No
GOM_TRA_1PNPDE20040412_003957_000000502025_00489_11064_0002.N1	12-APR-2004 00:39:57	Bright	50.000	15	67Alp Vir	0.97600	28000.	100	11064	No
GOM_TRA_1PNPDE20040412_004302_000000412025_00489_11064_0003.N1	12-APR-2004 00:43:02	Bright	40.500	121	29Gam Vir	2.7400	7200.0	81	11064	No
GOM_TRA_1PNPDE20040412_004658_000000432025_00489_11064_0004.N1	12-APR-2004 00:46:58	Bright	42.500	138	47Eps Vir	2.8280	4700.0	85	11064	No
GOM_TRA_1PNPDE20040412_004937_000000372025_00489_11064_0005.N1	12-APR-2004 00:49:37	Bright	37.000	96	68Del Leo	2.5600	9300.0	74	11064	No
GOM_TRA_1PNPDE20040412_005157_000000572025_00489_11064_0006.N1	12-APR-2004 00:51:57	Bright	56.500	3	16Alp Boo	-0.050000	4250.0	113	11064	No
GOM_TRA_1PNPDE20040412_005512_000000412025_00489_11064_0007.N1	12-APR-2004 00:55:12	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	11064	No
GOM_TRA_1PNPDE20040412_005851_000000392025_00489_11064_0008.N1	12-APR-2004 00:58:51	Bright	38.500	87	64Gam UMa	2.4330	11000.	77	11064	No
GOM_TRA_1PNPDE20040412_010008_000000402025_00489_11064_0009.N1	12-APR-2004 01:00:08	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	11064	No
GOM_TRA_1PNPDE20040412_010634_000000412025_00489_11064_0010.N1	12-APR-2004 01:06:34	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	11064	No
GOM_TRA_1PNPDE20040412_010910_000000372025_00489_11064_0011.N1	12-APR-2004 01:09:10	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	11064	No
GOM_TRA_1PNPDE20040412_011259_000000622025_00489_11064_0012.N1	12-APR-2004 01:12:59	Bright	61.500	130	23Bet Dra	2.7990	5800.0	123	11064	No
GOM_TRA_1PNPDE20040412_011609_000000522025_00489_11064_0013.N1	12-APR-2004 01:16:09	Bright	52.000	110	37Del Cas	2.6780	8900.0	104	11064	No
GOM_TRA_1PNPDE20040412_011725_000000362025_00489_11064_0014.N1	12-APR-2004 01:17:25	Bright	36.000	74	11Bet Cas	2.2680	6600.0	72	11064	No
GOM_TRA_1PNPDE20040412_012250_000001062025_00489_11064_0015.N1	12-APR-2004 01:22:50	Bright	105.50	5	3Alp Lyr	0.033000	11000.	211	11064	No
GOM_TRA_1PNPDE20040412_012559_000000512025_00489_11064_0016.N1	12-APR-2004 01:25:59	Bright	50.500	92	53Eps Cyg	2.5000	4500.0	101	11064	No
GOM_TRA_1PNPDE20040412_013308_000000532025_00489_11064_0017.N1	12-APR-2004 01:33:08	Dark	52.500	61	8Eps Peg	2.1000	3900.0	105	11064	No
GOM_TRA_1PNPDE20040412_013536_000000452025_00489_11064_0018.N1	12-APR-2004 01:35:36	Dark	45.000	162	34Alp Aqr	2.9440	5350.0	90	11064	No
GOM_TRA_1PNPDE20040412_013852_000000972025_00489_11064_0019.N1	12-APR-2004 01:38:52	Dark	97.000	11	53Alp Aql	0.76500	8000.0	194	11064	No
GOM_TRA_1PNPDE20040412_014241_000000442025_00489_11064_0020.N1	12-APR-2004 01:42:41	Dark	43.500	18	24Alp PsA	1.1660	9700.0	87	11064	No
GOM_TRA_1PNPDE20040412_014733_000000482025_00489_11064_0021.N1	12-APR-2004 01:47:33	Dark	48.000	63	Bet Gru	2.1500	2800.0	96	11064	No
GOM_TRA_1PNPDE20040412_015123_000000432025_00489_11064_0022.N1	12-APR-2004 01:51:23	Dark	43.000	148	Alp Tuc	2.8780	4100.0	86	11064	No
GOM_TRA_1PNPDE20040412_015251_000000422025_00490_11065_0023.N1	12-APR-2004 01:52:51	Dark	42.000	45	Alp Pav	1.9400	26000.	84	11065	No
GOM_TRA_1PNPDE20040412_015722_000000632025_00490_11065_0024.N1	12-APR-2004 01:57:22	Dark	63.000	38	20Eps Sgr	1.8360	11000.	126	11065	No
GOM_TRA_1PNPDE20040412_015955_000000482025_00490_11065_0025.N1	12-APR-2004 01:59:55	Dark	47.500	141	Bet Ara	2.8400	4600.0	95	11065	No
GOM_TRA_1PNPDE20040412_020126_000000722025_00490_11065_0026.N1	12-APR-2004 02:01:26	Dark	72.000	25	35Lam Sco	1.6200	28000.	144	11065	No
GOM_TRA_1PNPDE20040412_020448_000000542025_00490_11065_0027.N1	12-APR-2004 02:04:48	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	11065	No
GOM_TRA_1PNPDE20040412_020628_000000432025_00490_11065_0028.N1	12-APR-2004 02:06:28	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	11065	No
GOM_TRA_1PNPDE20040412_020800_000000442025_00490_11065_0029.N1	12-APR-2004 02:08:00	Dark	43.500	26	Gam Cru	1.6240	2900.0	87	11065	No
GOM_TRA_1PNPDE20040412_021009_000000972025_00490_11065_0030.N1	12-APR-2004 02:10:09	Dark	96.500	16	21Alp Sco	1.0200	3000.0	193	11065	No
GOM_TRA_1PNPDE20040412_021346_000000932025_00490_11065_0031.N1	12-APR-2004 02:13:46	Dark	93.000	80	7Del Sco	2.3160	30000.	186	11065	No
GOM_TRA_1PNPDE20040412_021648_000000492025_00490_11065_0000.N1	12-APR-2004 02:16:48	Dark	49.000	169	46Gam Hya	2.9910	4700.0	98	11065	Yes
GOM_TRA_1PNPDE20040412_021829_000000682025_00490_11065_0001.N1	12-APR-2004 02:18:29	Dark	67.500	122	9Alp2Lib	2.7470	9700.0	135	11065	No
GOM_TRA_1PNPDE20040412_022034_000000502025_00490_11065_0002.N1	12-APR-2004 02:20:34	Bright	49.500	15	67Alp Vir	0.97600	28000.	99	11065	No
GOM_TRA_1PNPDE20040412_022338_000000412025_00490_11065_0003.N1	12-APR-2004 02:23:38	Bright	41.000	121	29Gam Vir	2.7400	7200.0	82	11065	No
GOM_TRA_1PNPDE20040412_022734_000000422025_00490_11065_0004.N1	12-APR-2004 02:27:34	Bright	42.000	138	47Eps Vir	2.8280	4700.0	84	11065	No

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



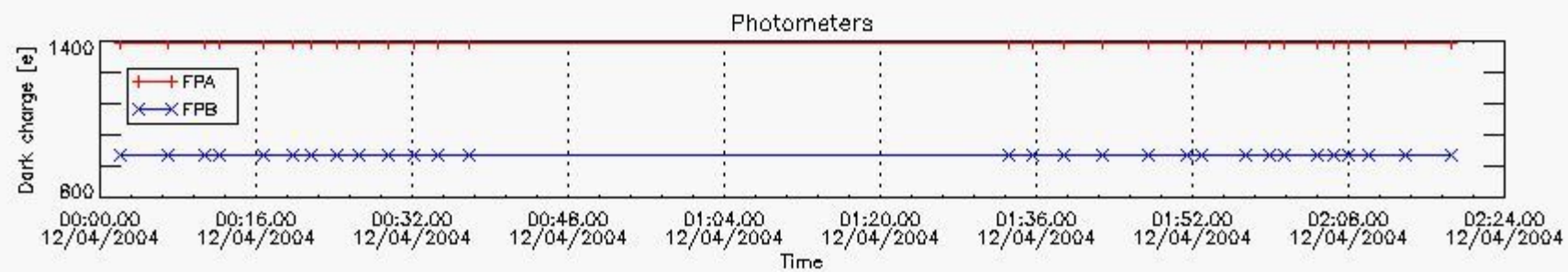
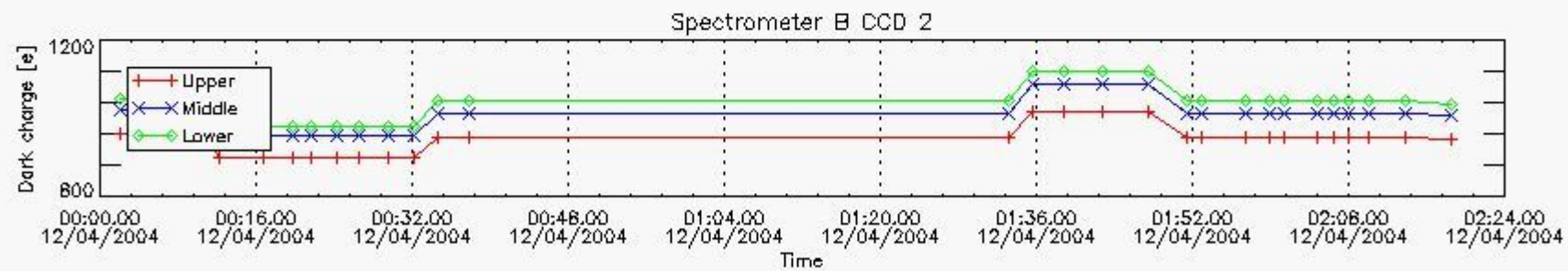
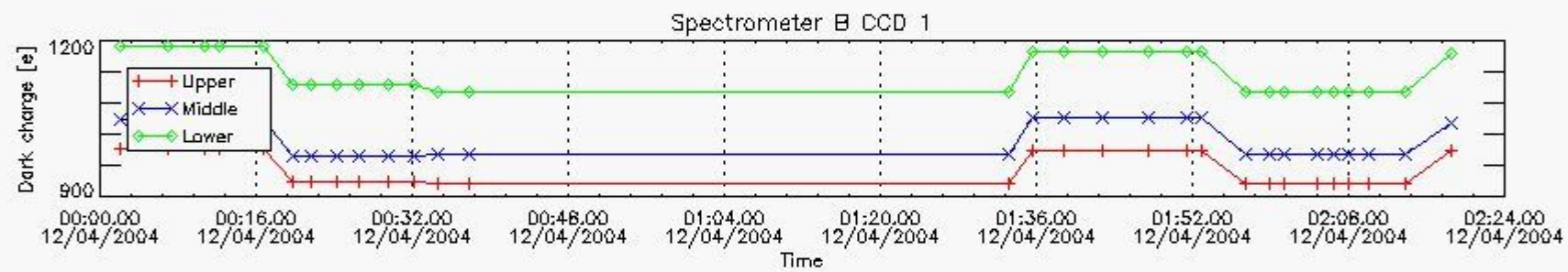
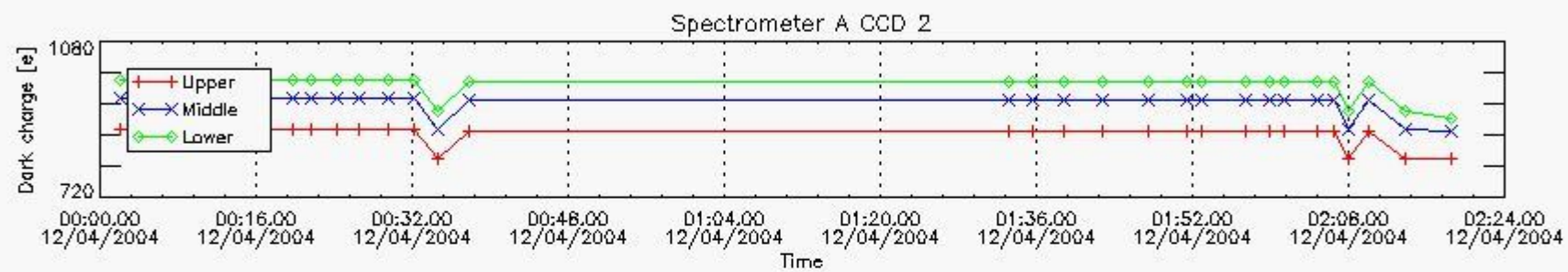
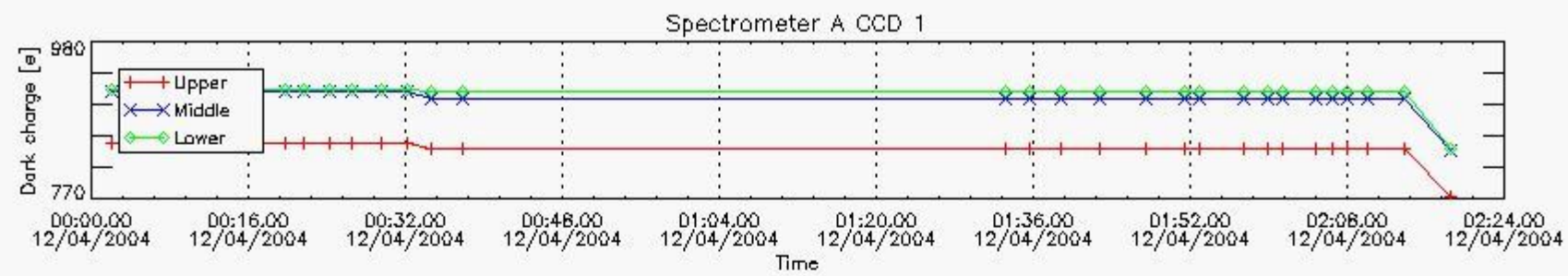
4. Overview of dark signal processing per product

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

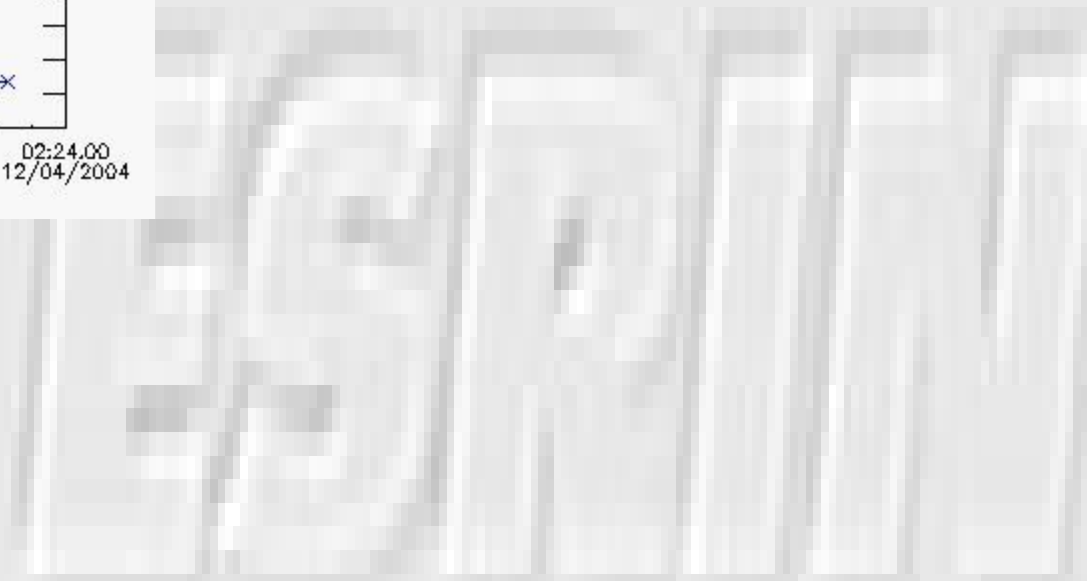
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



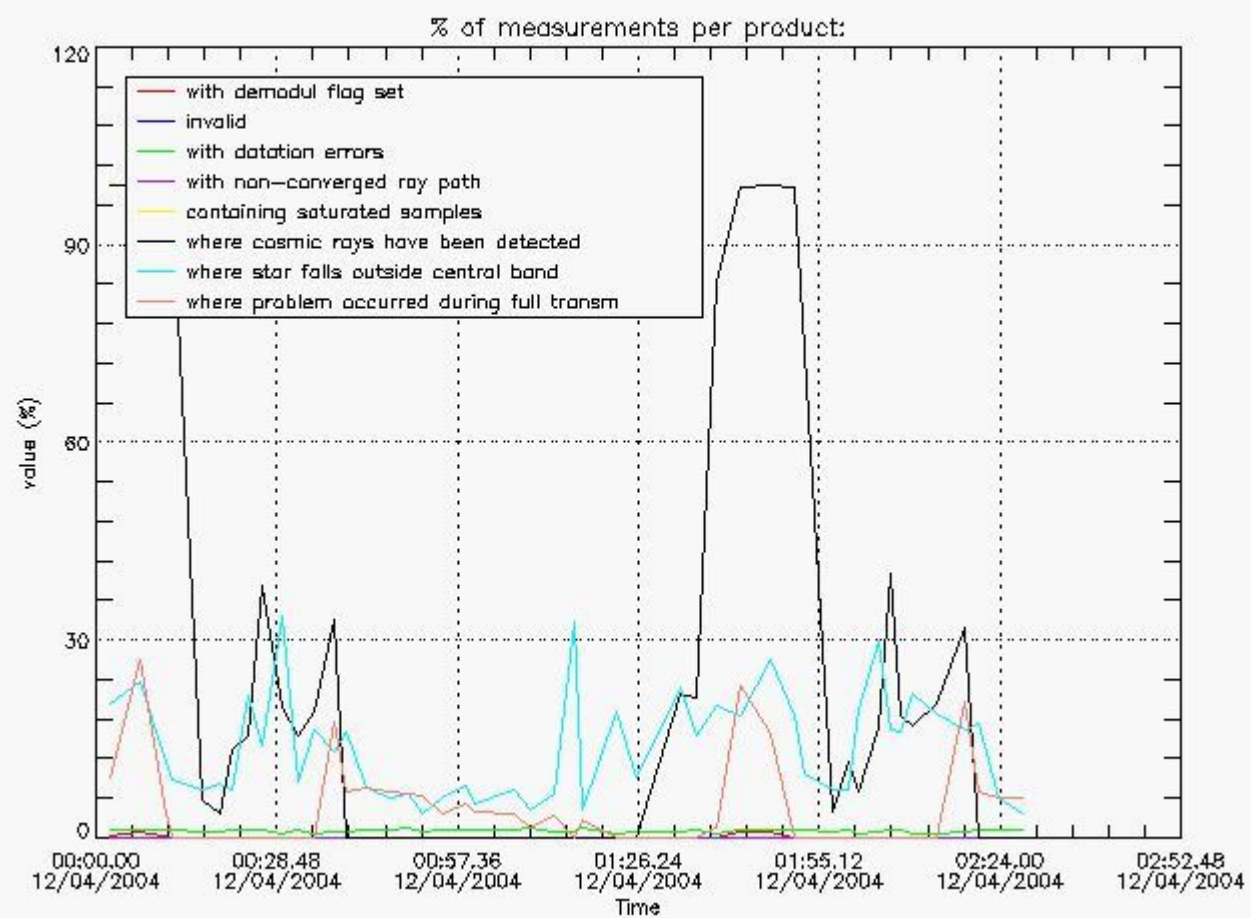
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	17.0213 %
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



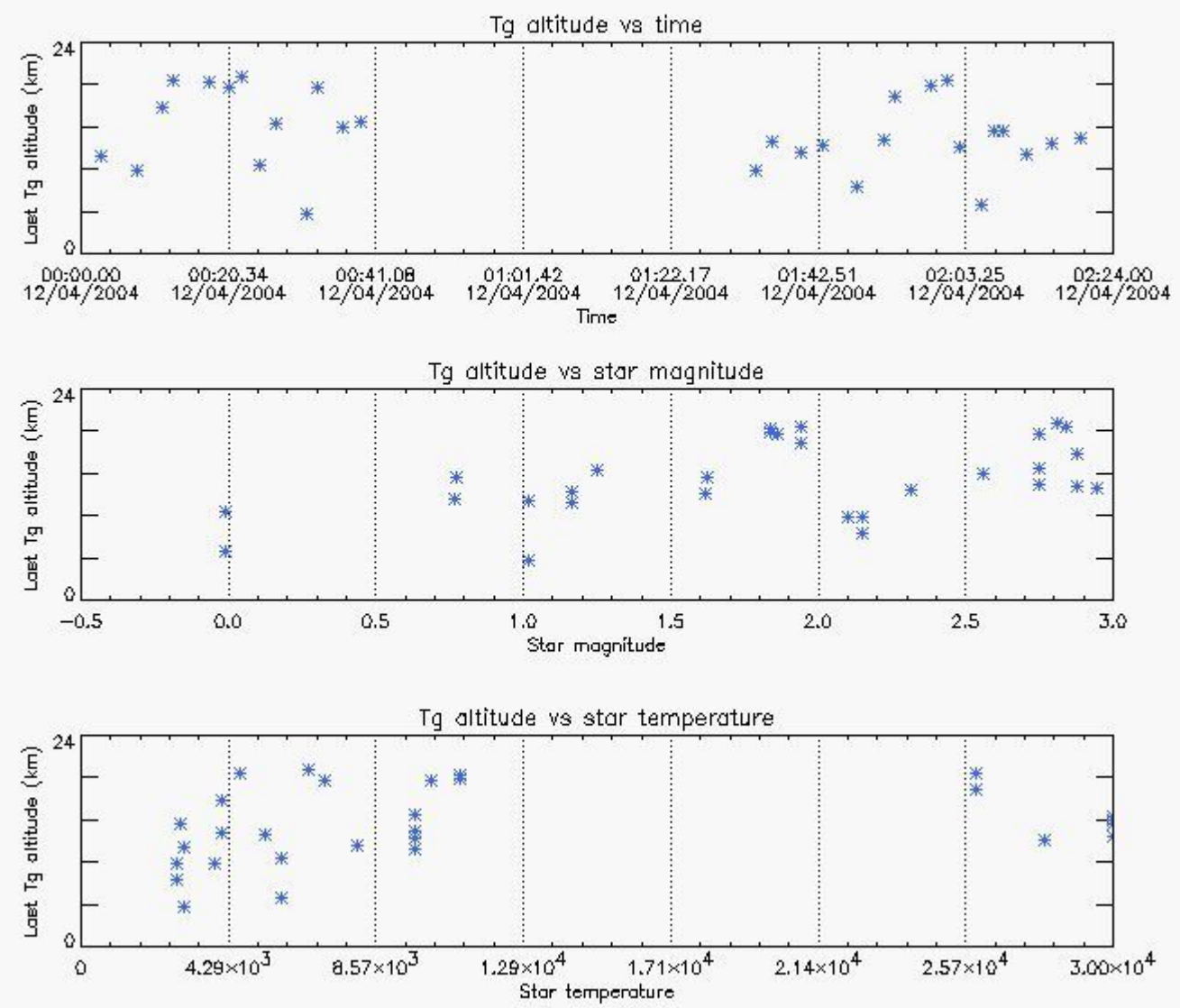
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

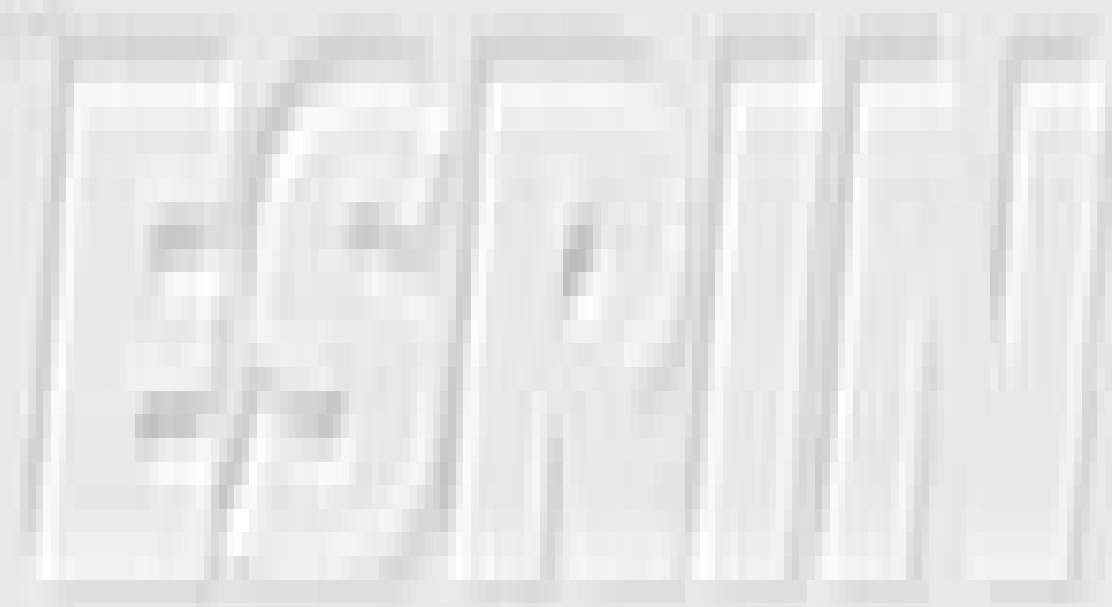
Statistics	DARK	BRIGHT
Mean:	13.726	18.817
St. deviation:	4.3247	4.7635
Maximum:	20.164	24.115
Minimum:	4.4693	5.2220
Number of data:	29.000	18.000

6.2 Plot for DARK limb products

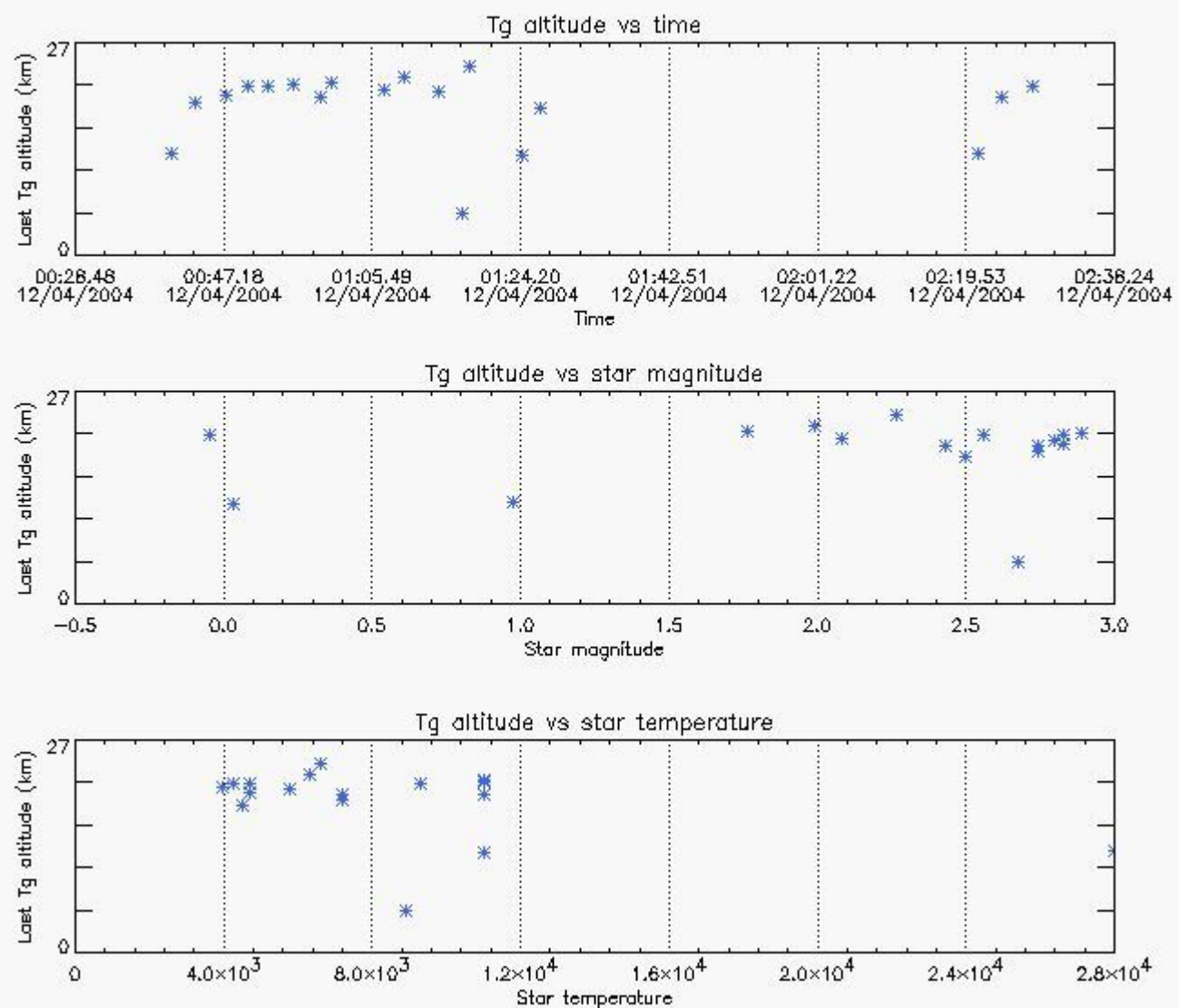
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



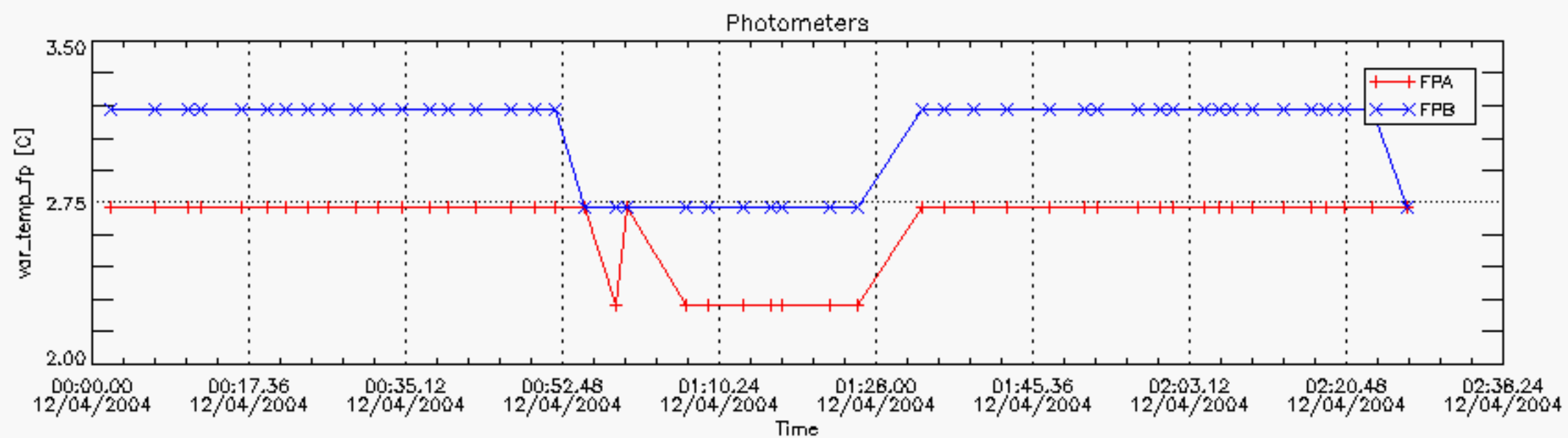
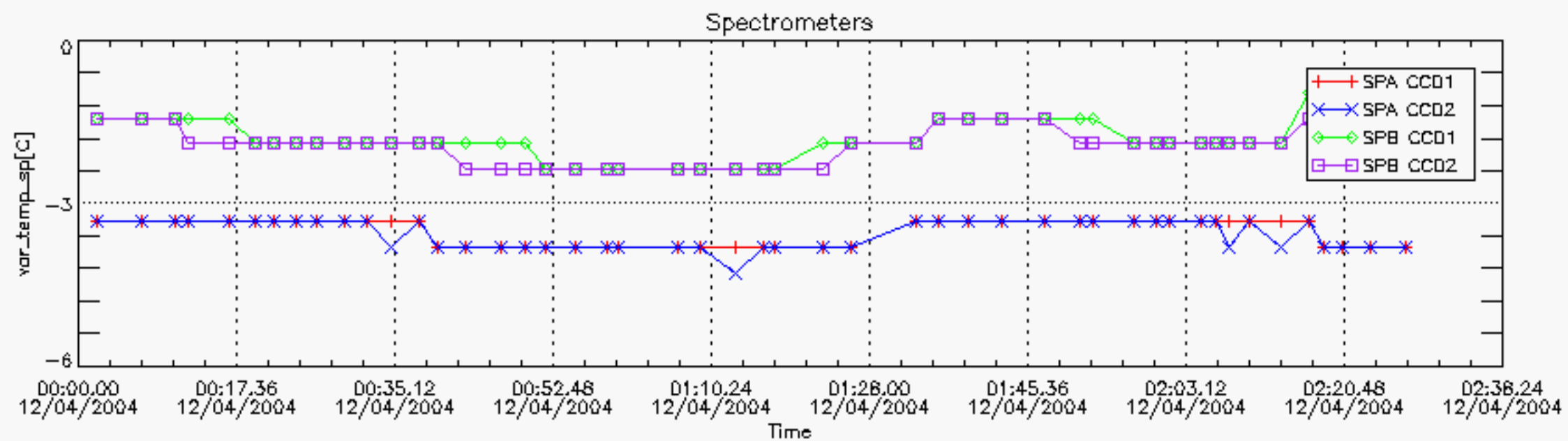
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

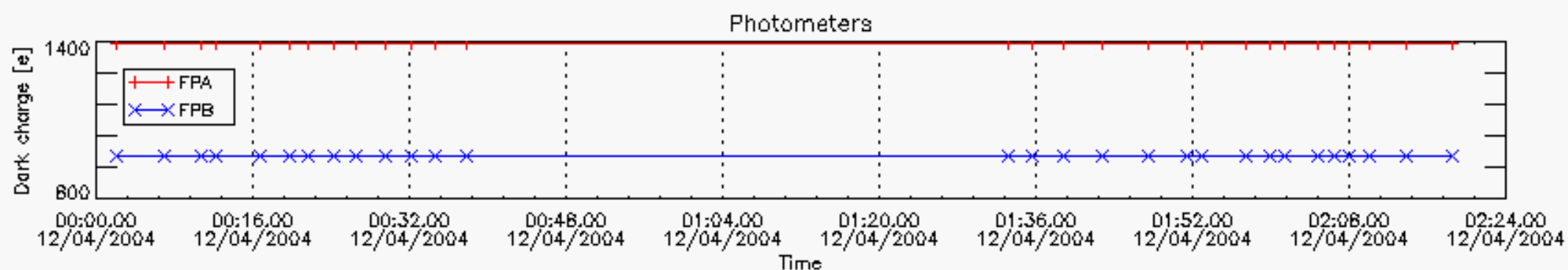
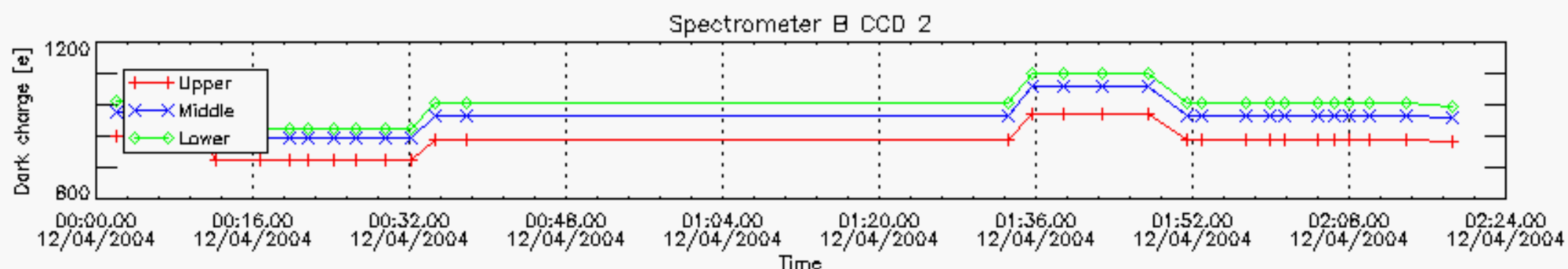
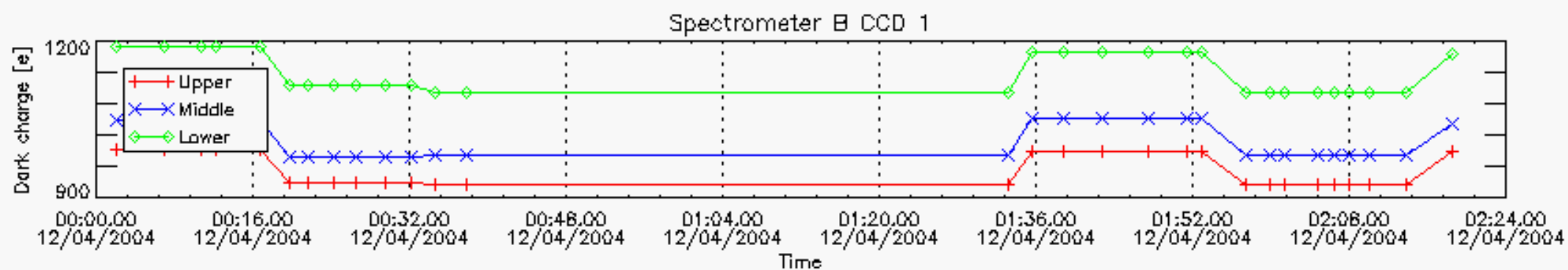
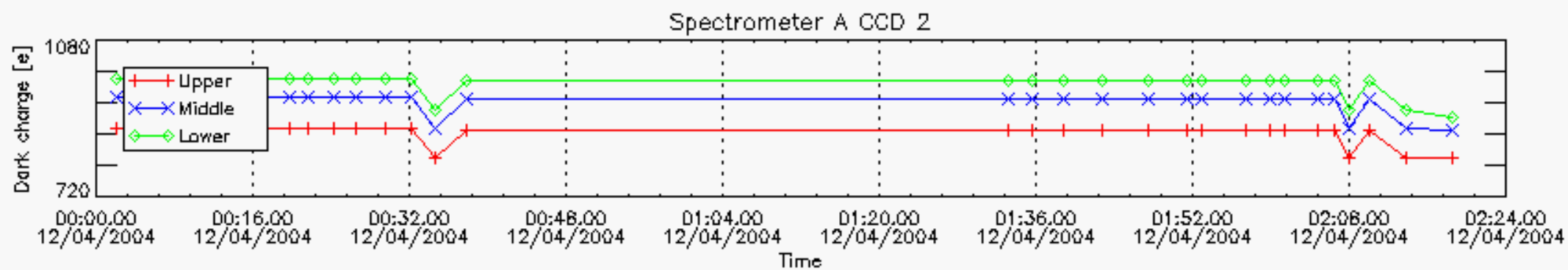
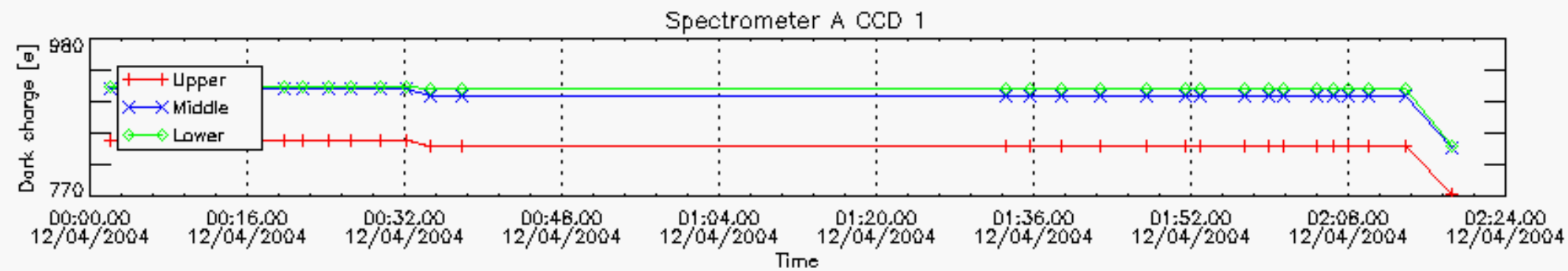
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

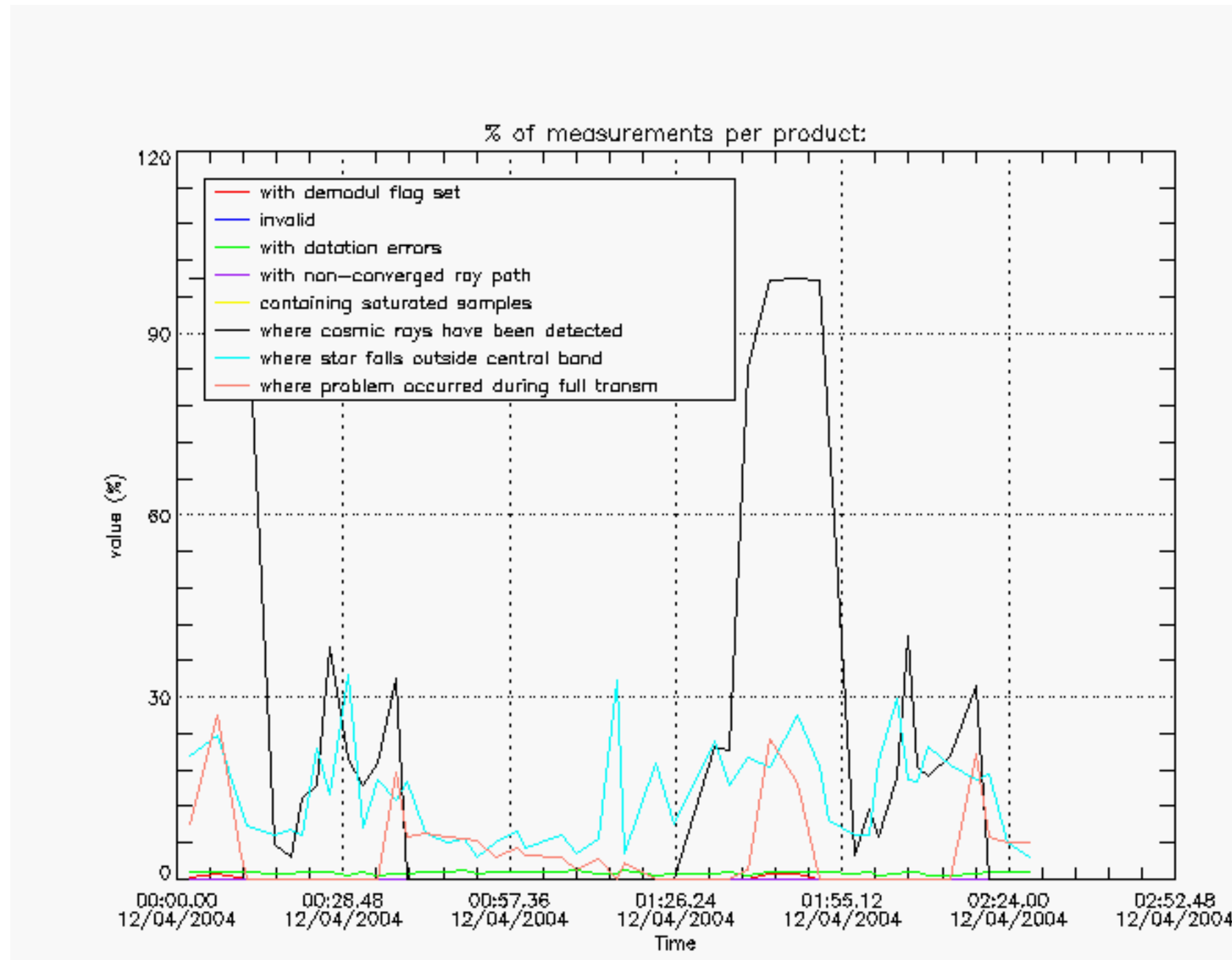
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1447.7	1461.9	1448.0
St. deviation:	4.3210	6.6024	7.0074	9.0845
Maximum:	1496.0	1491.0	1516.0	1511.0
Minimum:	1434.0	1412.0	1437.0	1412.0
Number of data:	40250.	40250.	21500.	21500.



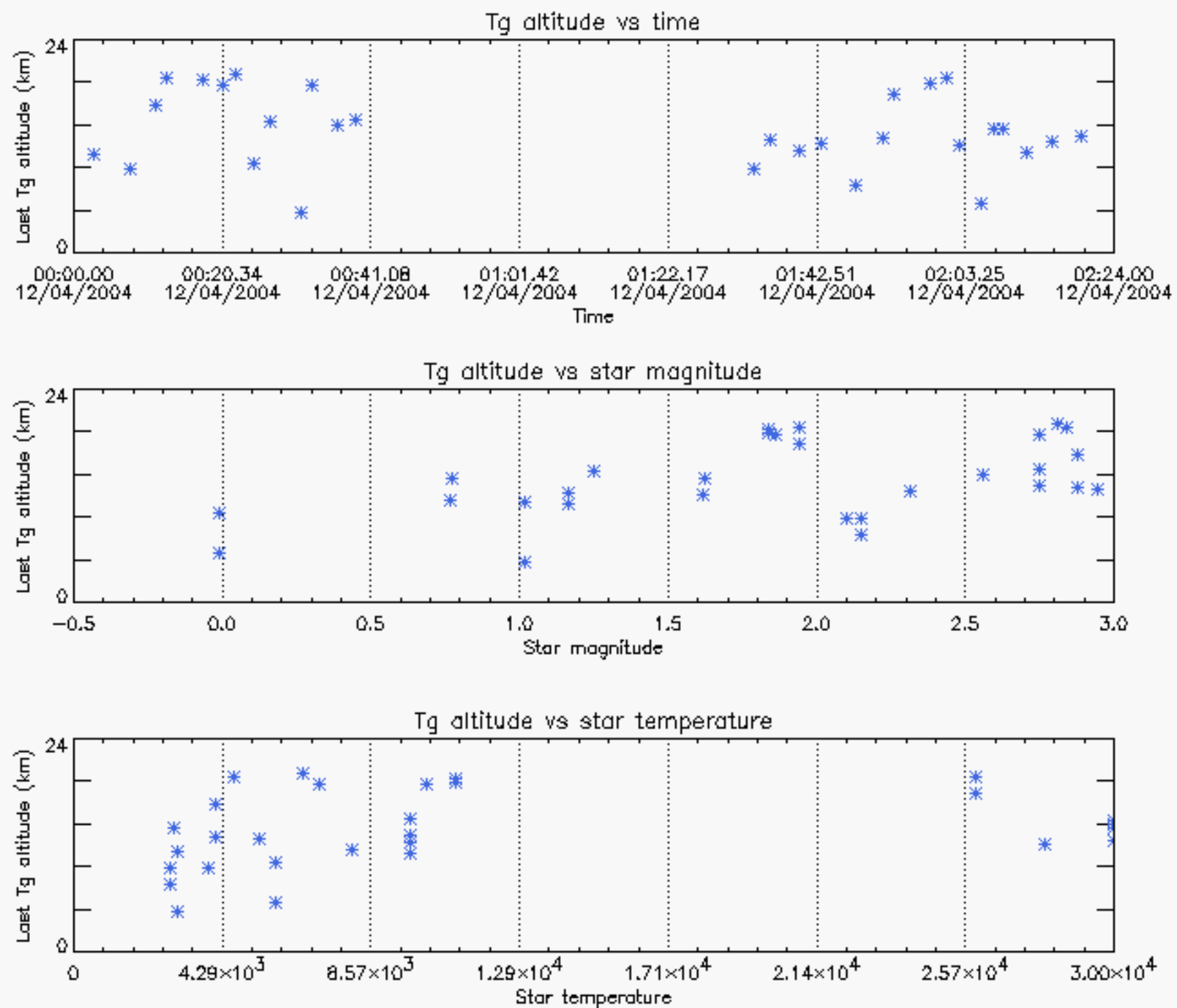




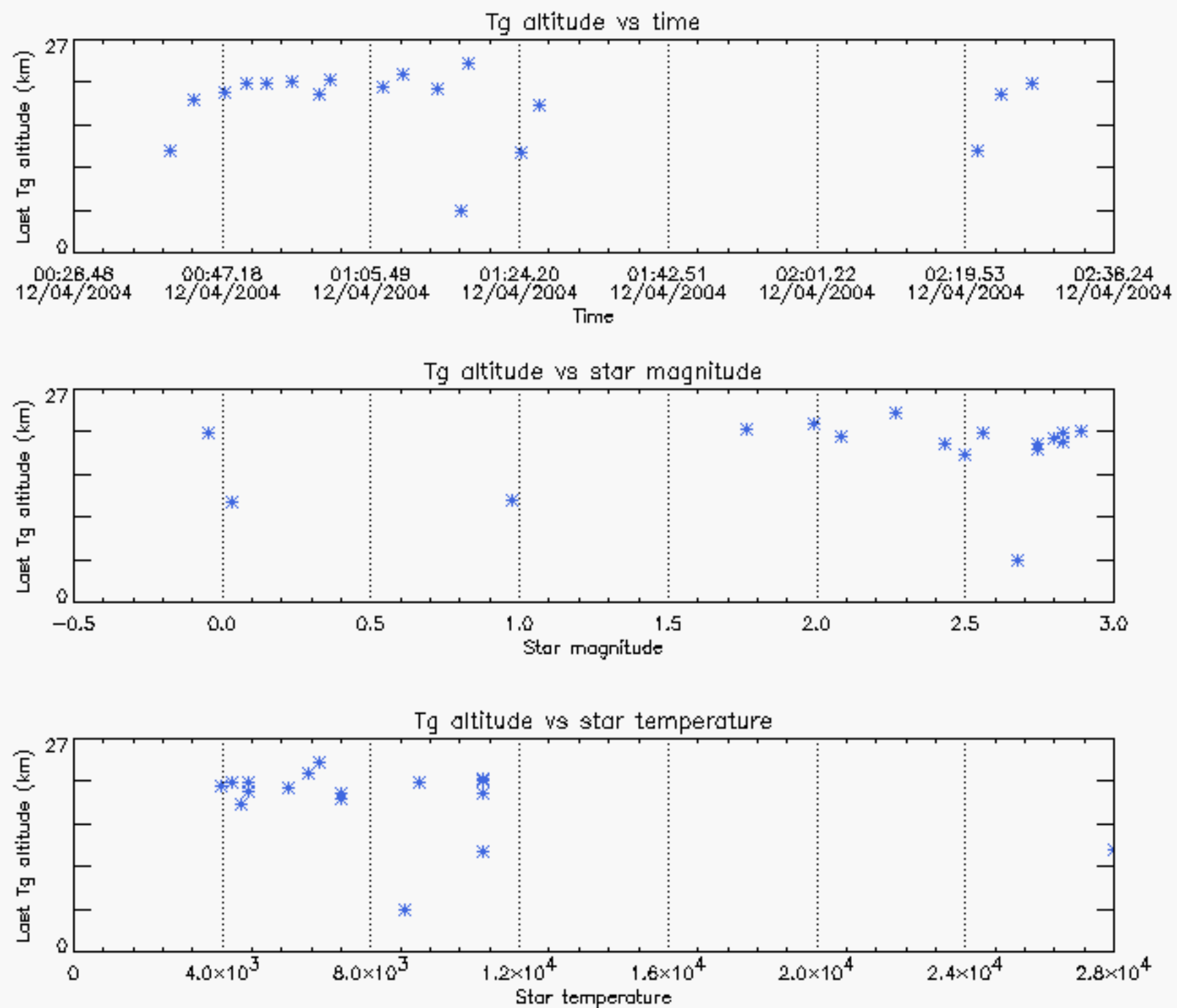




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL__0PNPDE20040401_012141_000060872025_00332_10907_0118.N1

1;	-4605.9;	01-APR-2004	01:21:41;	Dark	;	50.5;	169;	46Gam	Hya	;	2.99;	4700;	occ;	101;	0;	10907
2;	-4448.9;	01-APR-2004	01:24:18;	Dark	;	48.0;	163;	7Del	Crv	;	2.94;	11000;	occ;	96;	0;	10907
3;	-4349.5;	01-APR-2004	01:25:57;	Dark	;	63.5;	15;	67Alp	Vir	;	0.98;	28000;	occ;	127;	0;	10907
4;	-4154.5;	01-APR-2004	01:29:12;	Bright	;	45.5;	121;	29Gam	Vir	;	2.74;	7200;	occ;	91;	0;	10907
5;	-3877.5;	01-APR-2004	01:33:49;	Bright	;	40.5;	62;	94Bet	Leo	;	2.14;	9700;	occ;	81;	0;	10907
6;	-3781.2;	01-APR-2004	01:35:26;	Bright	;	38.5;	96;	68Del	Leo	;	2.56;	9300;	occ;	77;	0;	10907
7;	-3678.3;	01-APR-2004	01:37:09;	Bright	;	38.0;	166;	17Eps	Leo	;	2.98;	6000;	occ;	76;	0;	10907
8;	-3559.4;	01-APR-2004	01:39:08;	Bright	;	67.5;	111;	8Eta	Boo	;	2.68;	6000;	occ;	135;	0;	10907
9;	-3371.6;	01-APR-2004	01:42:15;	Bright	;	37.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	74;	0;	10907
10;	-3190.2;	01-APR-2004	01:45:17;	Bright	;	37.5;	87;	64Gam	UMa	;	2.43;	11000;	occ;	75;	0;	10907
11;	-3080.2;	01-APR-2004	01:47:07;	Bright	;	36.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	72;	0;	10907
12;	-2704.1;	01-APR-2004	01:53:23;	Bright	;	45.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	90;	0;	10907
13;	-2598.5;	01-APR-2004	01:55:08;	Bright	;	36.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	73;	0;	10907
14;	-2198.5;	01-APR-2004	02:01:48;	Bright	;	36.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	73;	0;	10907
15;	-2119.4;	01-APR-2004	02:03:08;	Bright	;	39.5;	68;	18Alp	Cas	;	2.22;	4500;	occ;	79;	0;	10907
16;	-1838.4;	01-APR-2004	02:07:49;	Bright	;	46.5;	144;	18Del	Cyg	;	2.86;	11000;	occ;	93;	0;	10907
17;	-1724.3;	01-APR-2004	02:09:43;	Bright	;	45.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	90;	0;	10907
18;	-1602.9;	01-APR-2004	02:11:44;	Bright	;	43.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	87;	0;	10907
19;	-1211.6;	01-APR-2004	02:18:15;	Dark	;	49.5;	61;	8Eps	Peg	;	2.10;	3900;	occ;	99;	0;	10907
20;	-992.6;	01-APR-2004	02:21:54;	Dark	;	72.0;	11;	53Alp	Aql	;	0.76;	8000;	occ;	144;	0;	10907
21;	-779.1;	01-APR-2004	02:25:28;	Dark	;	43.0;	142;	49Del	Cap	;	2.85;	8900;	occ;	86;	0;	10907
22;	-443.0;	01-APR-2004	02:31:04;	Dark	;	38.5;	172;	Gam	Gru	;	3.00;	13100;	occ;	77;	0;	10907
23;	-308.6;	01-APR-2004	02:33:18;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	10907
24;	-46.9;	01-APR-2004	02:37:40;	Dark	;	41.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	83;	0;	10907
25;	69.2;	01-APR-2004	02:39:36;	Dark	;	63.5;	116;	19Del	Sgr	;	2.70;	4100;	occ;	127;	0;	10908
26;	300.8;	01-APR-2004	02:43:28;	Dark	;	58.0;	40;	The	Sco	;	1.86;	7100;	occ;	116;	0;	10908
27;	404.0;	01-APR-2004	02:45:11;	Dark	;	47.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	94;	0;	10908
28;	518.1;	01-APR-2004	02:47:05;	Dark	;	41.5;	134;	Bet	TrA	;	2.81;	6600;	occ;	83;	0;	10908
29;	675.2;	01-APR-2004	02:49:42;	Dark	;	54.5;	4;	Alp1Cen		;	-0.01;	5800;	occ;	109;	0;	10908
30;	842.8;	01-APR-2004	02:52:30;	Dark	;	121.0;	16;	21Alp	Sco	;	1.02;	3000;	occ;	242;	0;	10908
31;	1101.7;	01-APR-2004	02:56:49;	Dark	;	53.5;	54;	5The	Cen	;	2.06;	4500;	occ;	107;	0;	10908
32;	1430.1;	01-APR-2004	03:02:17;	Dark	;	52.0;	169;	46Gam	Hya	;	2.99;	4700;	occ;	104;	0;	10908

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1;	-4350.3;	01-APR-2004	11:29:32;	Dark	;	59.0;	15;	67Alp	Vir	;	0.98;	28000;	occ;	118;	0;	10913
2;	-4155.5;	01-APR-2004	11:32:47;	Bright	;	45.5;	121;	29Gam	Vir	;	2.74;	7200;	occ;	91;	0;	10913
3;	-3877.5;	01-APR-2004	11:37:25;	Bright	;	39.0;	62;	94Bet	Leo	;	2.14;	9700;	occ;	78;	0;	10913
4;	-3780.2;	01-APR-2004	11:39:02;	Bright	;	38.0;	96;	68Del	Leo	;	2.56;	9300;	occ;	76;	0;	10913
5;	-3675.9;	01-APR-2004	11:40:47;	Bright	;	38.5;	166;	17Eps	Leo	;	2.98;	6000;	occ;	77;	0;	10913
6;	-3567.0;	01-APR-2004	11:42:35;	Bright	;	67.5;	111;	8Eta	Boo	;	2.68;	6000;	occ;	135;	0;	10913
7;	-3371.8;	01-APR-2004	11:45:51;	Bright	;	37.5;	174;	52Psi	UMa	;	3.00;	4400;	occ;	75;	0;	10913
8;	-3191.5;	01-APR-2004	11:48:51;	Bright	;	38.5;	87;	64Gam	UMa	;	2.43;	11000;	occ;	77;	0;	10913
9;	-3080.1;	01-APR-2004	11:50:42;	Bright	;	39.5;	36;	50Alp	UMa	;	1.80;	6300;	occ;	79;	0;	10913
10;	-2703.5;	01-APR-2004	11:56:59;	Bright	;	42.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	84;	0;	10913
11;	-2597.4;	01-APR-2004	11:58:45;	Bright	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	10913
12;	-2197.2;	01-APR-2004	12:05:25;	Bright	;	36.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	72;	0;	10913
13;	-2117.2;	01-APR-2004	12:06:45;	Bright	;	35.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	70;	0;	10913
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15;	-1724.7;	01-APR-2004	12:13:18;	Bright	;	46.5;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	93;	0;	10913
16;	-1602.9;	01-APR-2004	12:15:20;	Bright	;	44.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	89;	0;	10913
17;	-1207.7;	01-APR-2004	12:21:55;	Dark	;	49.5;	61;	8Eps	Peg	;	2.10;	3900;	occ;	99;	0;	10913
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19;	-777.3;	01-APR-2004	12:29:05;	Dark	;	41.5;	142;	49Del	Cap	;	2.85;	8900;	occ;	83;	0;	10913
20;	-441.2;	01-APR-2004	12:34:41;	Dark	;	39.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	78;	0;	10913
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22;	-166.1;	01-APR-2004	12:39:16;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	10913
23;	-42.3;	01-APR-2004	12:41:20;	Dark	;	45.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	90;	0;	10913
24;	77.2;	01-APR-2004	12:43:20;	Dark	;	61.5;	116;	19Del	Sgr	;	2.70;	4100;	occ;	123;	0;	10914
25;	288.8;	01-APR-2004	12:46:51;	Dark	;	56.0;	85;	Kap	Sco	;	2.41;	28000;	occ;	112;	0;	10914
26;	409.6;	01-APR-2004	12:48:52;	Dark	;	39.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	78;	0;	10914
27;	521.5;	01-APR-2004	12:50:44;	Dark	;	40.0;	134;	Bet	TrA	;	2.81;	6600;	occ;	80;	0;	10914
28;	679.2;	01-APR-2004	12:53:22;	Dark	;	55.0;	4;	Alp1Cen		;	-0.01;	5800;	occ;	110;	0;	10914
29;	813.2;	01-APR-2004	12:55:36;	Dark	;	46.0;	12;	Alp1Cru		;	0.77;	30000;	occ;	92;	0;	10914
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31;	1017.2;	01-APR-2004	12:59:00;	Dark	;	42.0;	64;	Gam	Cen	;	2.20;	10600;	occ;	84;	0;	10914
32;	1104.9;	01-APR-2004	13:00:27;	Dark	;	56.0;	54;	5The	Cen	;	2.06;	4500;	occ;	112;	0;	10914
33;	1255.2;	01-APR-2004	13:02:58;	Dark	;	149.5;	97;	8Bet1Sco		;	2.56;	30000;	occ;	299;	0;	10914
34;	1578.4;	01-APR-2004	13:08:21;	Dark	;	14.0;	100;	4Gam	Crv	;	2.58;	13100;	occ;	28;	0;	10914

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 3;-4155.5; 01-APR-2004 13:13:23; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;10914
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 7;-3568.6; 01-APR-2004 13:23:10; Bright; 63.5; 111; 8Eta Boo ; 2.68; 6000;occ; 127; 0;10914
 8;-3371.9; 01-APR-2004 13:26:26; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;10914
 9;-3191.9; 01-APR-2004 13:29:26; Bright; 40.0; 87; 64Gam UMa ; 2.43; 11000;occ; 80; 0;10914
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 14;-2116.5; 01-APR-2004 13:47:22; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;10914
 15;-1840.0; 01-APR-2004 13:51:58; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;10914
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 17;-1602.8; 01-APR-2004 13:55:56; Bright; 47.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 94; 0;10914
 18;-1207.2; 01-APR-2004 14:02:31; Dark ; 48.5; 61; 8Eps Peg ; 2.10; 3900;occ; 97; 0;10914
 19; -986.9; 01-APR-2004 14:06:11; Dark ; 63.0; 11; 53Alp Aql ; 0.76; 8000;occ; 126; 0;10914
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 22; -296.1; 01-APR-2004 14:17:42; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;10914
 23; -165.8; 01-APR-2004 14:19:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10914
 24; -41.7; 01-APR-2004 14:21:57; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;10914
 25; 78.9; 01-APR-2004 14:23:57; Dark ; 67.5; 116; 19Del Sgr ; 2.70; 4100;occ; 135; 0;10915
 26; 290.1; 01-APR-2004 14:27:28; Dark ; 53.5; 85; Kap Sco ; 2.41; 28000;occ; 107; 0;10915
 27; 410.0; 01-APR-2004 14:29:28; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;10915
 28; 522.1; 01-APR-2004 14:31:20; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;10915
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 30; 813.4; 01-APR-2004 14:36:12; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;10915
 31; 899.7; 01-APR-2004 14:37:38; Dark ; 46.0; 26; Gam Cru ; 1.62; 2900;occ; 92; 0;10915
 32; 1017.6; 01-APR-2004 14:39:36; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;10915
 33; 1105.7; 01-APR-2004 14:41:04; Dark ; 54.0; 54; 5The Cen ; 2.06; 4500;occ; 108; 0;10915

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 14;-2118.5; 01-APR-2004 03:43:44; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;10908
 15;-1838.8; 01-APR-2004 03:48:24; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;10908
 16;-1724.7; 01-APR-2004 03:50:18; Bright; 46.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 92; 0;10908
 17;-1602.9; 01-APR-2004 03:52:20; Bright; 41.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 83; 0;10908
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 22; -307.8; 01-APR-2004 04:13:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10908
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 27; 518.4; 01-APR-2004 04:27:41; Dark ; 42.0; 134; Bet TrA ; 2.81; 6600;occ; 84; 0;10909
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 29; 844.1; 01-APR-2004 04:33:07; Dark ; 108.5; 16; 21Alp Sco ; 1.02; 3000;occ; 217; 0;10909
 30; 1102.1; 01-APR-2004 04:37:25; Dark ; 54.5; 54; 5The Cen ; 2.06; 4500;occ; 109; 0;10909
 31; 1430.3; 01-APR-2004 04:42:53; Dark ; 50.5; 169; 46Gam Hya ; 2.99; 4700;occ; 101; 0;10909
 32; 1589.0; 01-APR-2004 04:45:32; Dark ; 9.5; 163; 7Del Crv ; 2.94; 11000;occ; 19; 0;10909

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 22; -307.1; 01-APR-2004 05:54:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10909
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 25; 284.1; 01-APR-2004 06:04:23; Dark ; 53.5; 85; Kap Sco ; 2.41; 28000;occ; 107; 0;10910
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 27; 518.8; 01-APR-2004 06:08:18; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;10910
 28; 677.1; 01-APR-2004 06:10:56; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;10910
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 32; 1103.1; 01-APR-2004 06:18:02; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;10910
 33; 1250.4; 01-APR-2004 06:20:29; Dark ; 159.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 318; 0;10910
 34; 1577.9; 01-APR-2004 06:25:57; Dark ; 34.5; 100; 4Gam Crv ; 2.58; 13100;occ; 69; 0;10910

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 25; 284.1; 01-APR-2004 06:04:23; Dark ; 53.5; 85; Kap Sco ; 2.41; 28000;occ; 107; 0;10910
 26; 407.2; 01-APR-2004 06:06:26; Dark ; 48.5; 43; Alp TrA ; 1.91; 4250;occ; 97; 0;10910
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 28; 677.1; 01-APR-2004 06:10:56; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;10910
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 25; 73.3; 01-APR-2004 07:41:28; Dark ; 63.0; 116; 19Del Sgr ; 2.70; 4100;occ; 126; 0;10911
 26; 285.7; 01-APR-2004 07:45:01; Dark ; 55.0; 85; Kap Sco ; 2.41; 28000;occ; 110; 0;10911
 27; 408.0; 01-APR-2004 07:47:03; Dark ; 44.0; 43; Alp TrA ; 1.91; 4250;occ; 88; 0;10911
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 29; 677.8; 01-APR-2004 07:51:33; Dark ; 48.5; 4; Alp1Cen ; -0.01; 5800;occ; 97; 0;10911
 30; 812.4; 01-APR-2004 07:53:47; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;10911
 31; 899.6; 01-APR-2004 07:55:14; Dark ; 45.5; 26; Gam Cru ; 1.62; 2900;occ; 91; 0;10911
 32; 1016.7; 01-APR-2004 07:57:12; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;10911
 33; 1103.3; 01-APR-2004 07:58:38; Dark ; 54.0; 54; 5The Cen ; 2.06; 4500;occ; 108; 0;10911
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 11;-2596.9; 01-APR-2004 08:37:34; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;10911
 12;-2198.5; 01-APR-2004 08:44:12; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;10911
 13;-2118.4; 01-APR-2004 08:45:32; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;10911
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 21;-296.4; 01-APR-2004 09:15:54; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;10911
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 27; 520.4; 01-APR-2004 09:29:31; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;10912
 28; 678.2; 01-APR-2004 09:32:09; Dark ; 54.5; 4; Alp1Cen ; -0.01; 5800;occ; 109; 0;10912
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25; 287.9; 01-APR-2004 11:06:15; Dark ; 54.5; 85; Kap Sco ; 2.41; 28000;occ; 109; 0;10913
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27; 520.9; 01-APR-2004 11:10:08; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;10913
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32; 1103.8; 01-APR-2004 11:19:50; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;10913
33; 1253.8; 01-APR-2004 11:22:20; Dark ; 158.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 316; 0;10913
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7;	-3344.0;	22-APR-2004	14:07:07;	Bright;	;	39.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	78;	0;	11215
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9;	-3064.1;	22-APR-2004	14:11:47;	Bright;	;	36.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	72;	0;	11215
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15;	-1892.1;	22-APR-2004	14:31:19;	Bright;	;	153.5;	5;	3Alp	Lyr	;	0.03;	11000;	occ;	307;	0;	11215
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17;	-1295.8;	22-APR-2004	14:41:16;	Dark	;	44.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	88;	0;	11215
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22;	-335.0;	22-APR-2004	14:57:16;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	11215
23;	-206.7;	22-APR-2004	14:59:25;	Dark	;	45.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	90;	0;	11215
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25;	108.5;	22-APR-2004	15:04:40;	Dark	;	42.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	84;	0;	11216
26;	331.5;	22-APR-2004	15:08:23;	Dark	;	70.5;	103;	38Zet	Sgr	;	2.60;	9700;	occ;	141;	0;	11216
27;	532.4;	22-APR-2004	15:11:44;	Dark	;	44.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	88;	0;	11216
28;	636.1;	22-APR-2004	15:13:27;	Dark	;	64.0;	40;	The	Sco	;	1.86;	7100;	occ;	128;	0;	11216
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