

GOMOS Daily Report 17-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	20APR2004 06:35:22
Data source version	GOMOS/4.02
Start time of products	17-APR-2004 (17APR2004 00:00:00)
Stop time of products	18-APR-2004 (18APR2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	33
Nb of prods with errors	0

2. Summary of products arrived in PCF

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

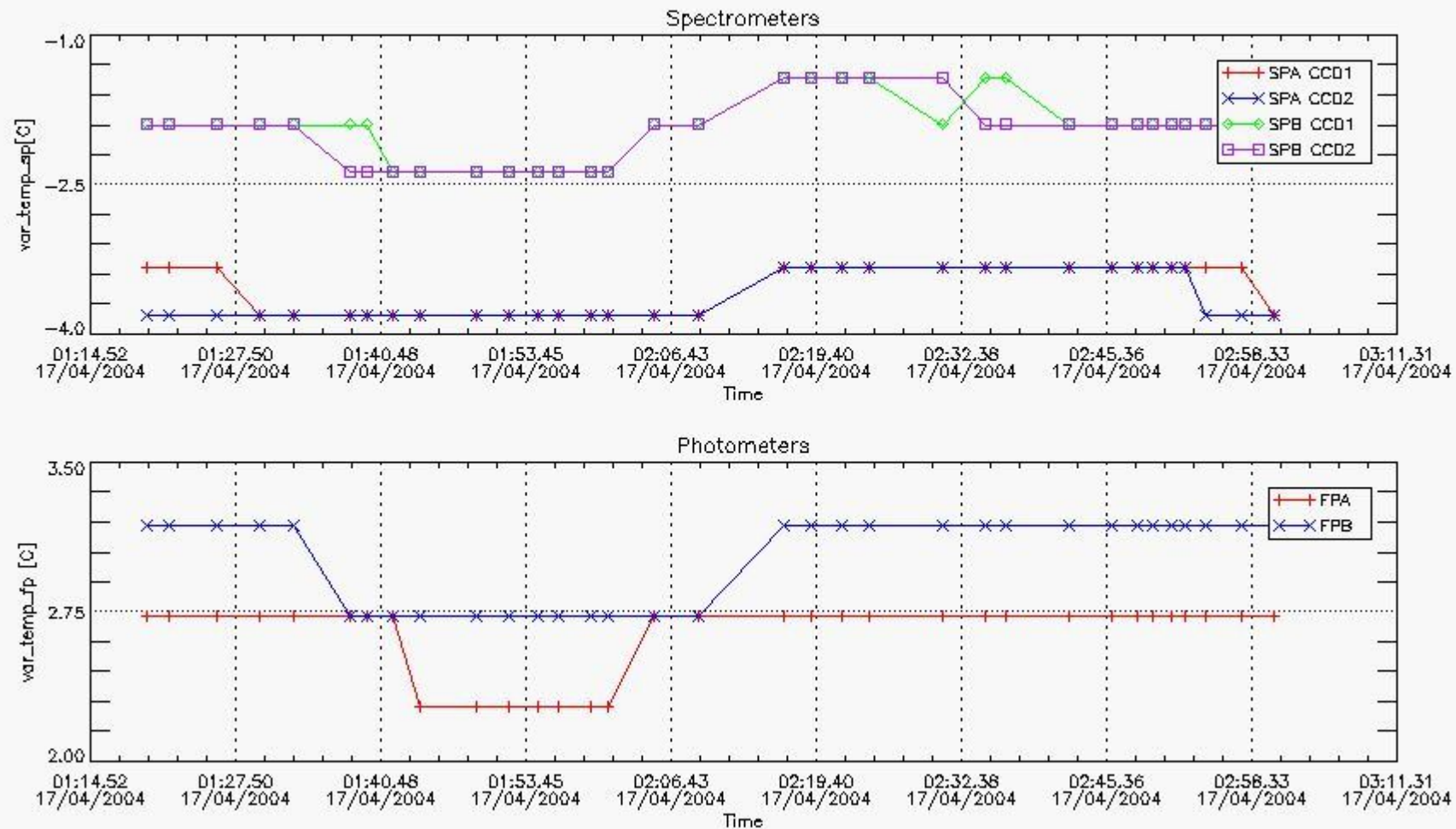
[2.2 Summary of processed GOM_TRA_1P products.](#)

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_1PNPDE20040417_011957_000000442026_00060_11136_0000.N1	17-APR-2004 01:19:57	Dark	43.500	106	9Bet Crv	2.6480	5600.0	87	11136	No
GOM_TRA_1PNPDE20040417_012157_000000402026_00060_11136_0001.N1	17-APR-2004 01:21:57	Bright	39.500	163	7Del Crv	2.9450	11000.	79	11136	No
GOM_TRA_1PNPDE20040417_012611_000000402026_00060_11136_0002.N1	17-APR-2004 01:26:11	Bright	40.000	121	29Gam Vir	2.7400	7200.0	80	11136	No
GOM_TRA_1PNPDE20040417_012954_000000402026_00060_11136_0003.N1	17-APR-2004 01:29:54	Bright	40.000	138	47Eps Vir	2.8280	4700.0	80	11136	No
GOM_TRA_1PNPDE20040417_013256_000000382026_00060_11136_0004.N1	17-APR-2004 01:32:56	Bright	38.000	96	68Del Leo	2.5600	9300.0	76	11136	No
GOM_TRA_1PNPDE20040417_013758_000000392026_00060_11136_0005.N1	17-APR-2004 01:37:58	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	11136	No
GOM_TRA_1PNPDE20040417_013931_000000402026_00060_11136_0006.N1	17-APR-2004 01:39:31	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	11136	No
GOM_TRA_1PNPDE20040417_014154_000000382026_00060_11136_0007.N1	17-APR-2004 01:41:54	Bright	37.500	87	64Gam UMa	2.4330	11000.	75	11136	No
GOM_TRA_1PNPDE20040417_014418_000000392026_00060_11136_0008.N1	17-APR-2004 01:44:18	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	11136	No
GOM_TRA_1PNPDE20040417_014921_000000412026_00060_11136_0009.N1	17-APR-2004 01:49:21	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	11136	No
GOM_TRA_1PNPDE20040417_015218_000000382026_00060_11136_0010.N1	17-APR-2004 01:52:18	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	11136	No
GOM_TRA_1PNPDE20040417_015451_000000622026_00060_11136_0011.N1	17-APR-2004 01:54:51	Bright	61.500	130	23Bet Dra	2.7990	5800.0	123	11136	No
GOM_TRA_1PNPDE20040417_015642_000000652026_00060_11136_0012.N1	17-APR-2004 01:56:42	Bright	65.000	69	33Gam Dra	2.2310	3800.0	130	11136	No
GOM_TRA_1PNPDE20040417_015929_000000432026_00060_11136_0013.N1	17-APR-2004 01:59:29	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	11136	No
GOM_TRA_1PNPDE20040417_020107_000000362026_00060_11136_0014.N1	17-APR-2004 02:01:07	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	11136	No
GOM_TRA_1PNPDE20040417_020513_000001132026_00060_11136_0015.N1	17-APR-2004 02:05:13	Bright	113.00	5	3Alp Lyr	0.033000	11000.	226	11136	No
GOM_TRA_1PNPDE20040417_020913_000000632026_00060_11136_0016.N1	17-APR-2004 02:09:13	Bright	63.000	92	53Eps Cyg	2.5000	4500.0	126	11136	No
GOM_TRA_1PNPDE20040417_021645_000000582026_00060_11136_0017.N1	17-APR-2004 02:16:45	Dark	57.500	61	8Eps Peg	2.1000	3900.0	115	11136	No
GOM_TRA_1PNPDE20040417_021914_000000472026_00060_11136_0018.N1	17-APR-2004 02:19:14	Dark	47.000	162	34Alp Aqr	2.9440	5350.0	94	11136	No
GOM_TRA_1PNPDE20040417_022156_000000542026_00060_11136_0019.N1	17-APR-2004 02:21:56	Dark	53.500	154	22Bet Aqr	2.8990	5700.0	107	11136	No
GOM_TRA_1PNPDE20040417_022420_000001192026_00060_11136_0020.N1	17-APR-2004 02:24:20	Dark	119.00	11	53Alp Aql	0.76500	8000.0	238	11136	No
GOM_TRA_1PNPDE20040417_023054_000000502026_00060_11136_0021.N1	17-APR-2004 02:30:54	Dark	50.000	63	Bet Gru	2.1500	2800.0	100	11136	No
GOM_TRA_1PNPDE20040417_023443_000000472026_00060_11136_0022.N1	17-APR-2004 02:34:43	Dark	47.000	148	Alp Tuc	2.8780	4100.0	94	11136	No
GOM_TRA_1PNPDE20040417_023635_000000452026_00061_11137_0023.N1	17-APR-2004 02:36:35	Dark	45.000	45	Alp Pav	1.9400	26000.	90	11137	No
GOM_TRA_1PNPDE20040417_024217_000000652026_00061_11137_0025.N1	17-APR-2004 02:42:17	Dark	65.000	38	20Eps Sgr	1.8360	11000.	130	11137	No
GOM_TRA_1PNPDE20040417_024607_000000702026_00061_11137_0026.N1	17-APR-2004 02:46:07	Dark	70.000	25	35Lam Sco	1.6200	28000.	140	11137	No
GOM_TRA_1PNPDE20040417_024822_000000542026_00061_11137_0027.N1	17-APR-2004 02:48:22	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	11137	No
GOM_TRA_1PNPDE20040417_024945_000000472026_00061_11137_0028.N1	17-APR-2004 02:49:45	Dark	47.000	12	Alp1Cru	0.77500	30000.	94	11137	No
GOM_TRA_1PNPDE20040417_025121_000000432026_00061_11137_0029.N1	17-APR-2004 02:51:21	Dark	43.000	26	Gam Cru	1.6240	2900.0	86	11137	No
GOM_TRA_1PNPDE20040417_025239_000000462026_00061_11137_0030.N1	17-APR-2004 02:52:39	Dark	46.000	95	Zet Cen	2.5450	26000.	92	11137	No
GOM_TRA_1PNPDE20040417_025426_000001052026_00061_11137_0031.N1	17-APR-2004 02:54:26	Dark	105.00	16	21Alp Sco	1.0200	3000.0	210	11137	No
GOM_TRA_1PNPDE20040417_025735_000000802026_00061_11137_0032.N1	17-APR-2004 02:57:35	Dark	79.500	80	7Del Sco	2.3160	30000.	159	11137	No
GOM_TRA_1PNPDE20040417_030034_000000452026_00061_11137_0033.N1	17-APR-2004 03:00:34	Dark	45.000	106	9Bet Crv	2.6480	5600.0	90	11137	No

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





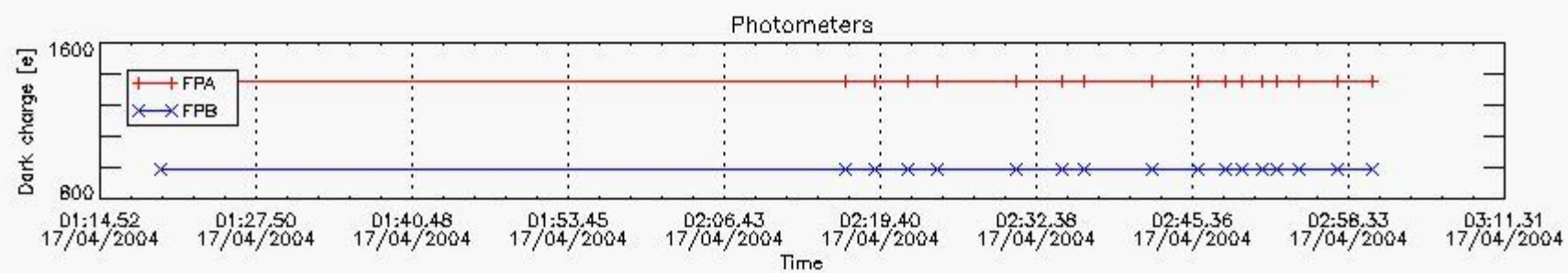
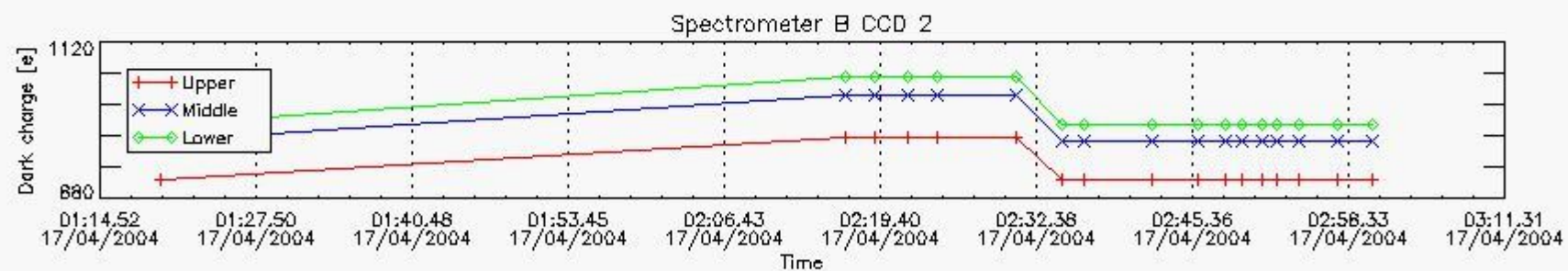
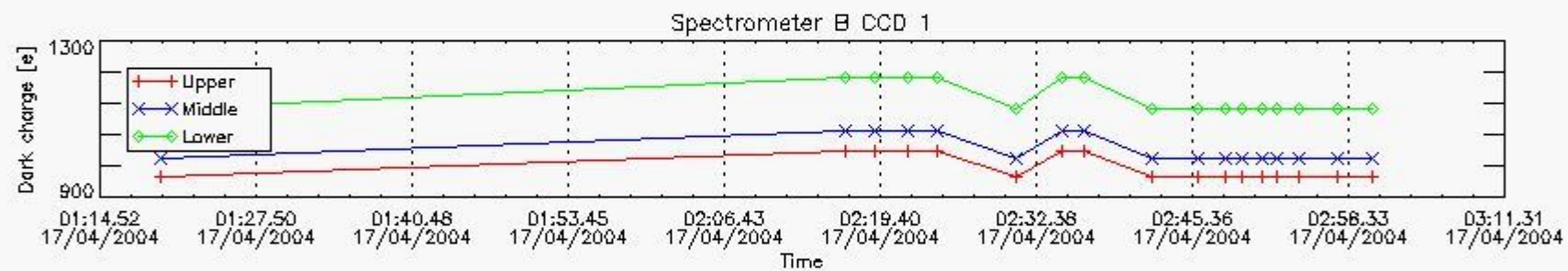
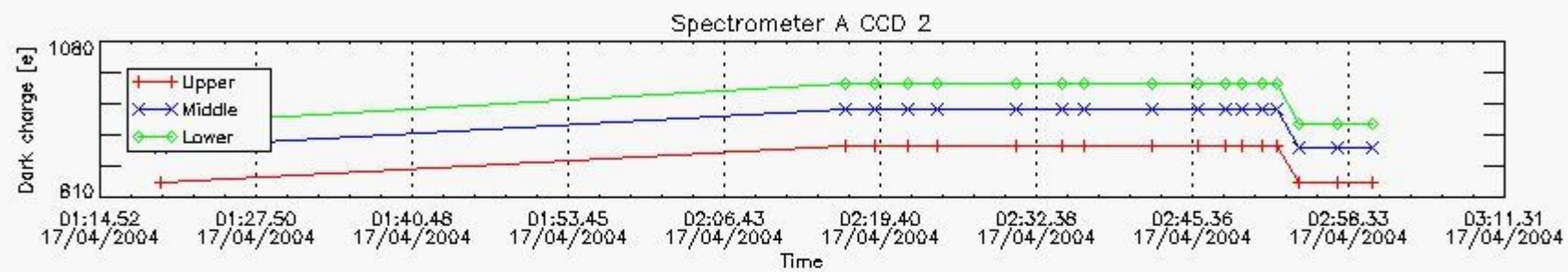
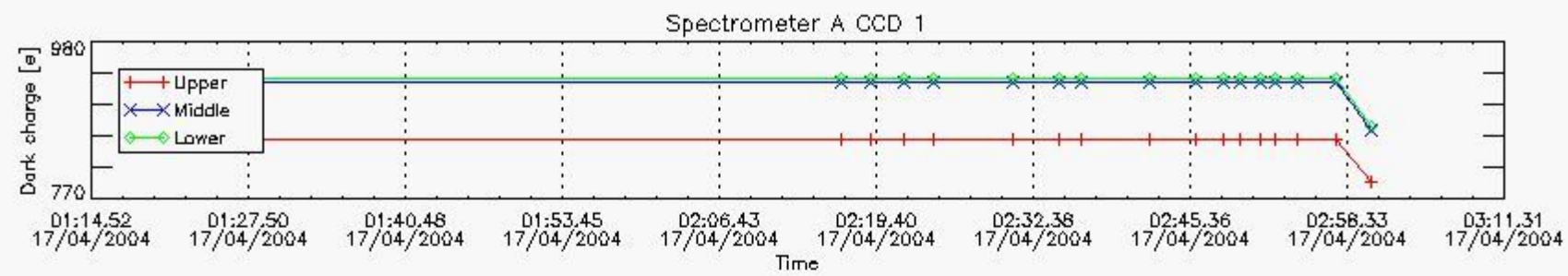
4. Overview of dark signal processing per product

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

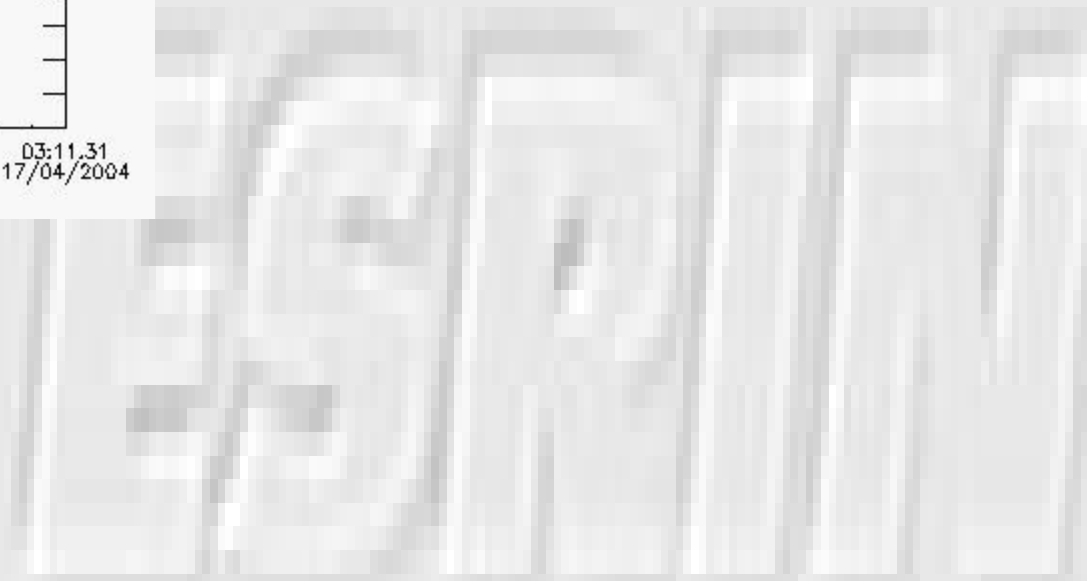
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



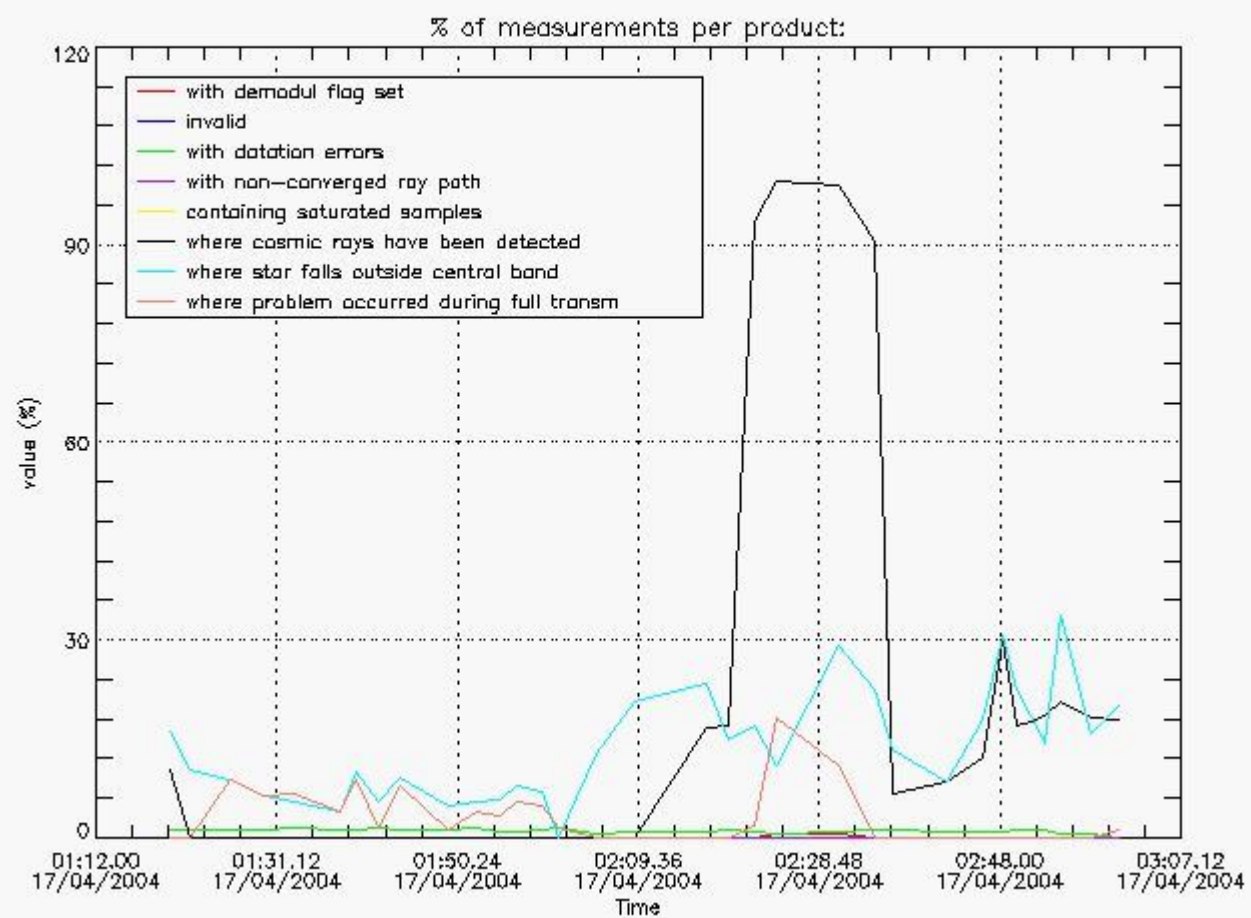
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	6.06061 %
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



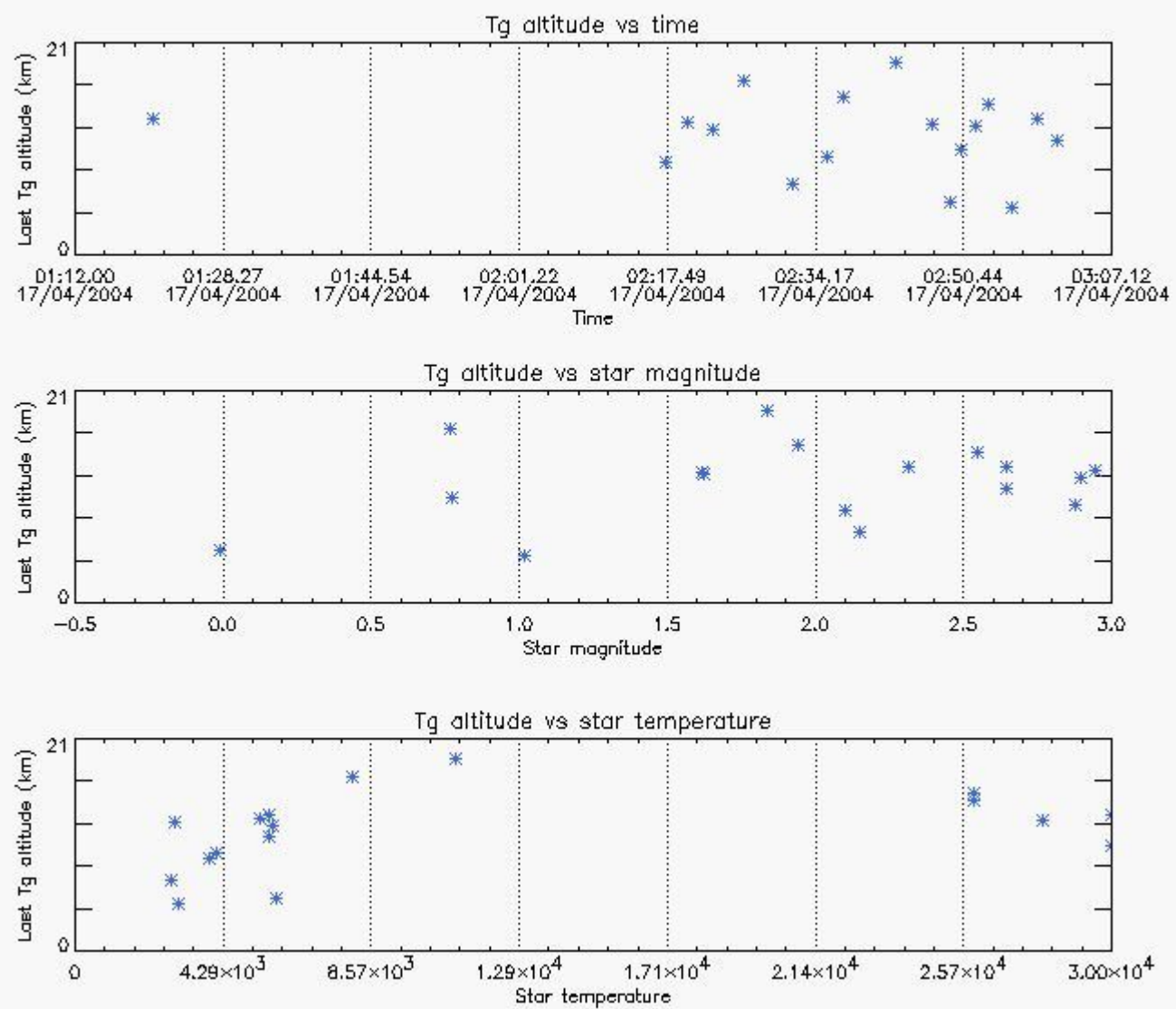
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	11.875	19.709
St. deviation:	3.9479	3.2653
Maximum:	19.076	25.804
Minimum:	4.5973	11.284
Number of data:	17.000	16.000

6.2 Plot for DARK limb products

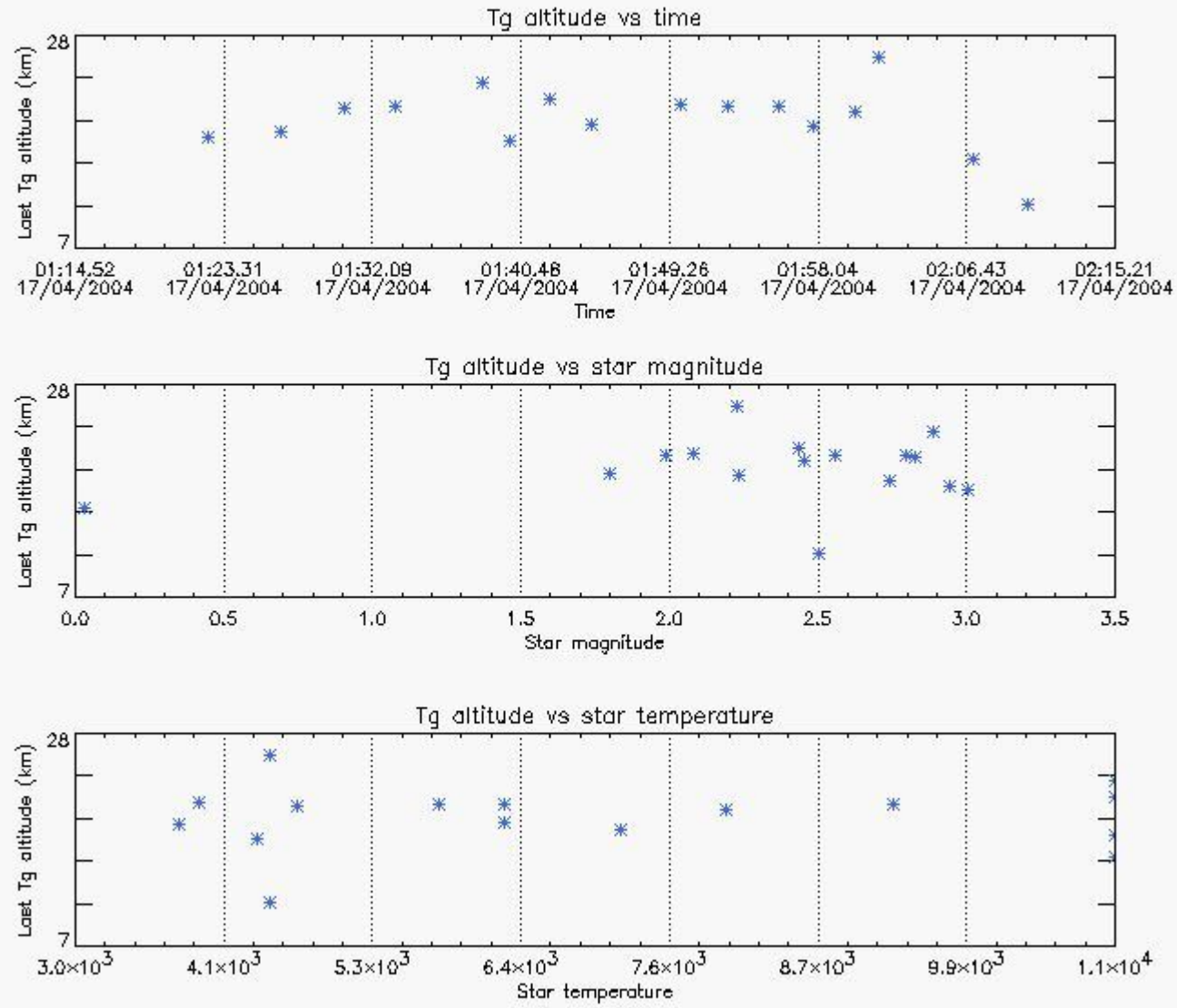
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost

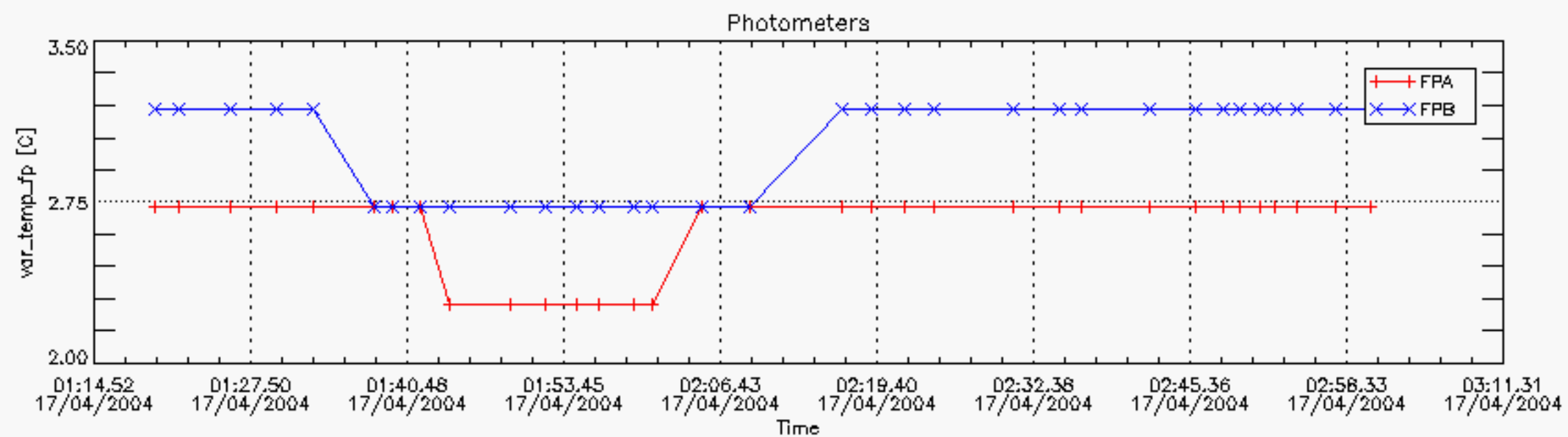
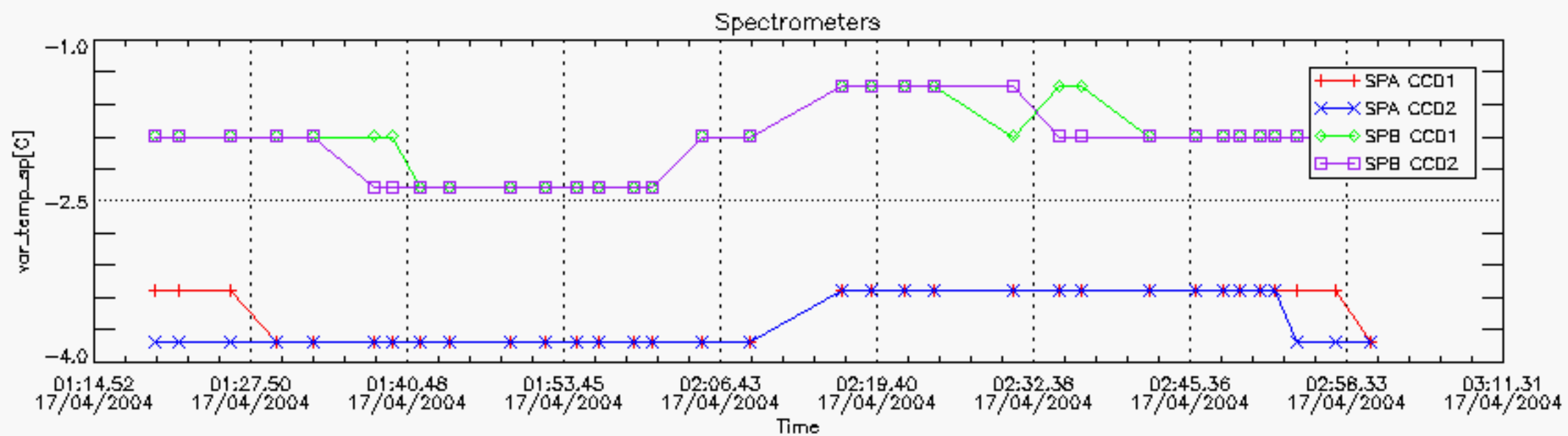


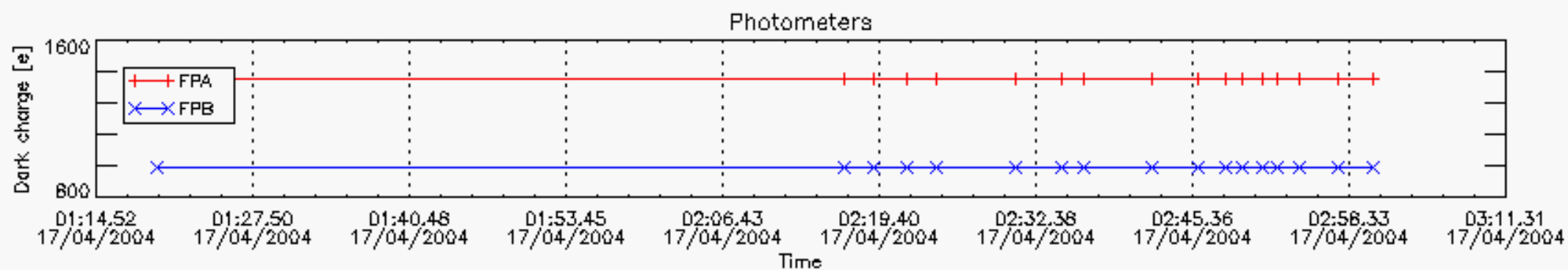
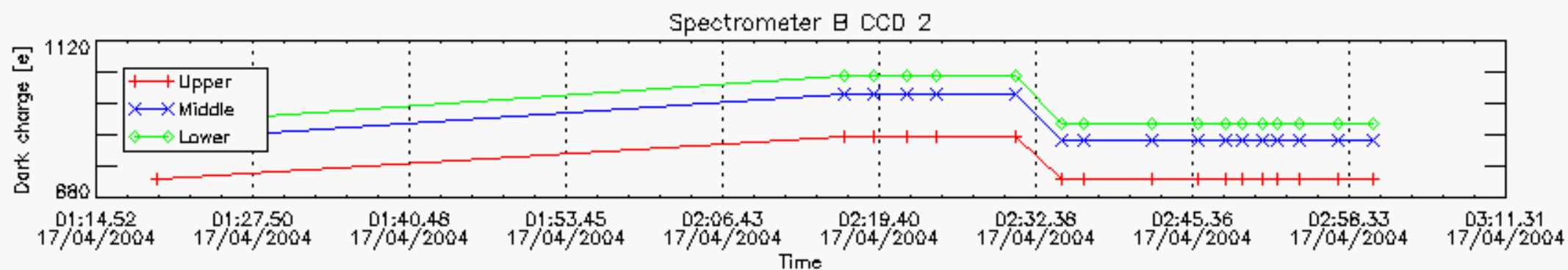
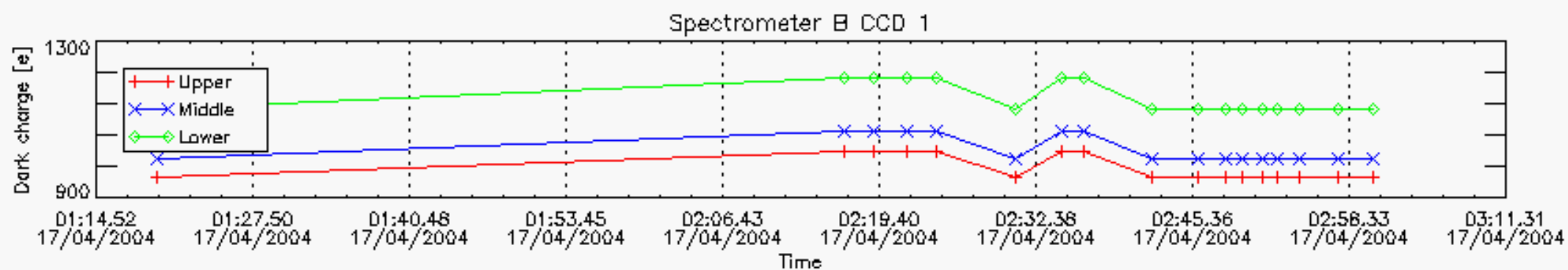
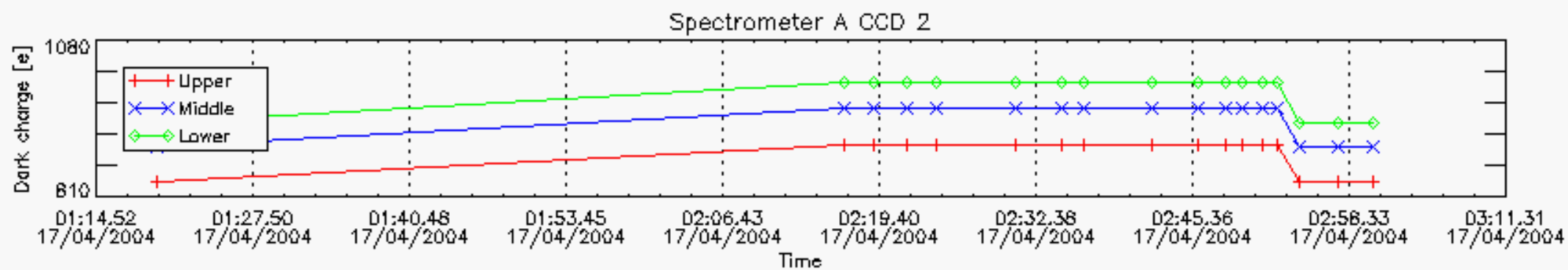
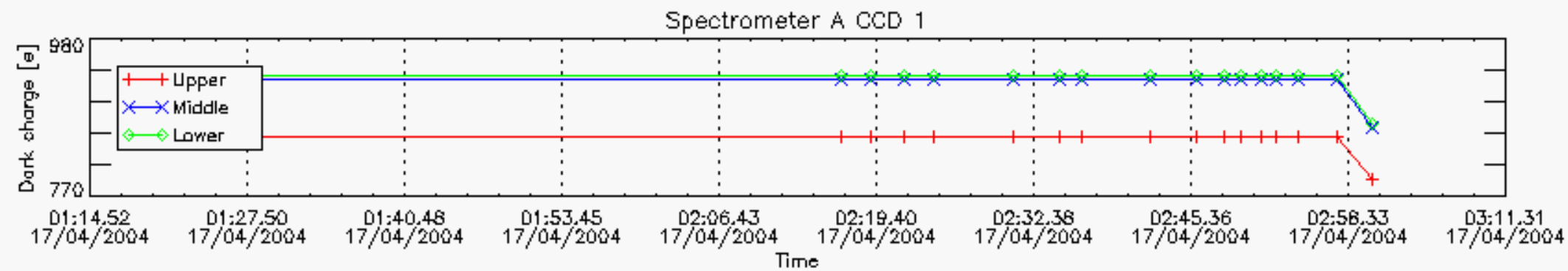
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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

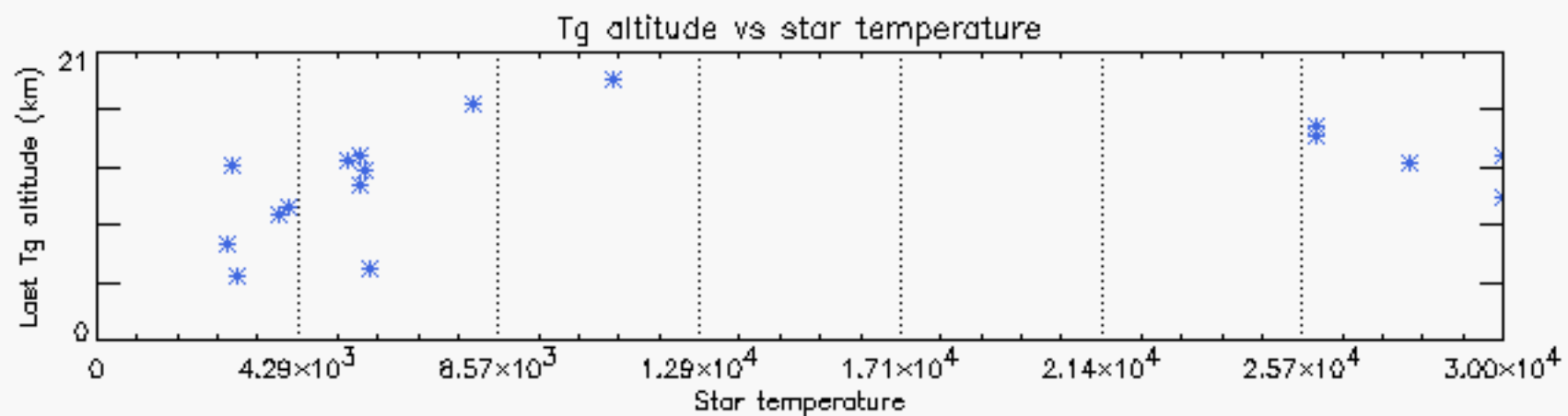
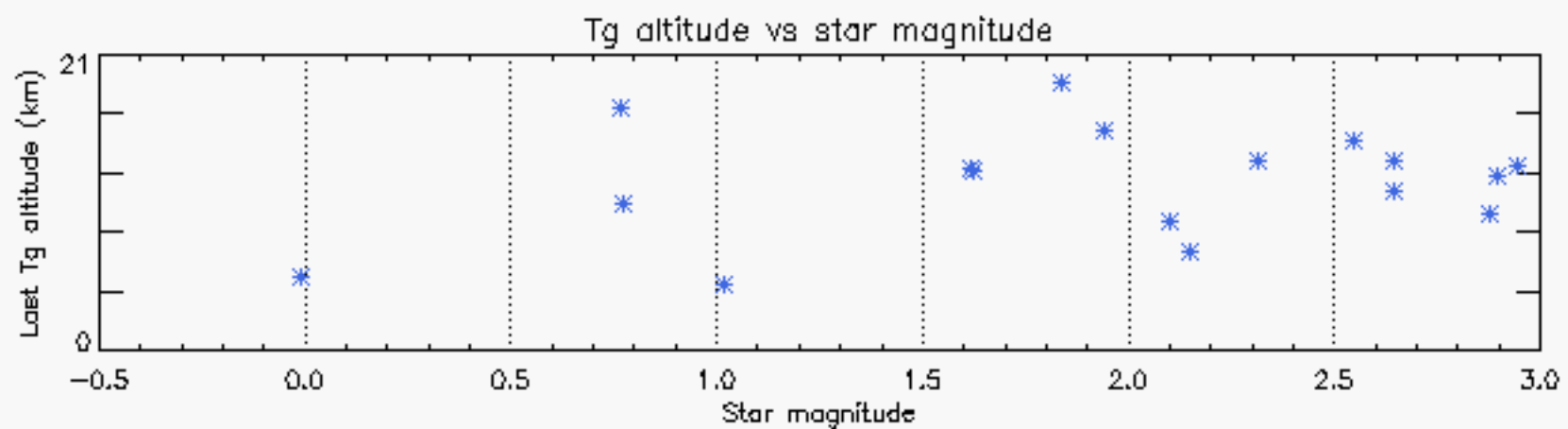
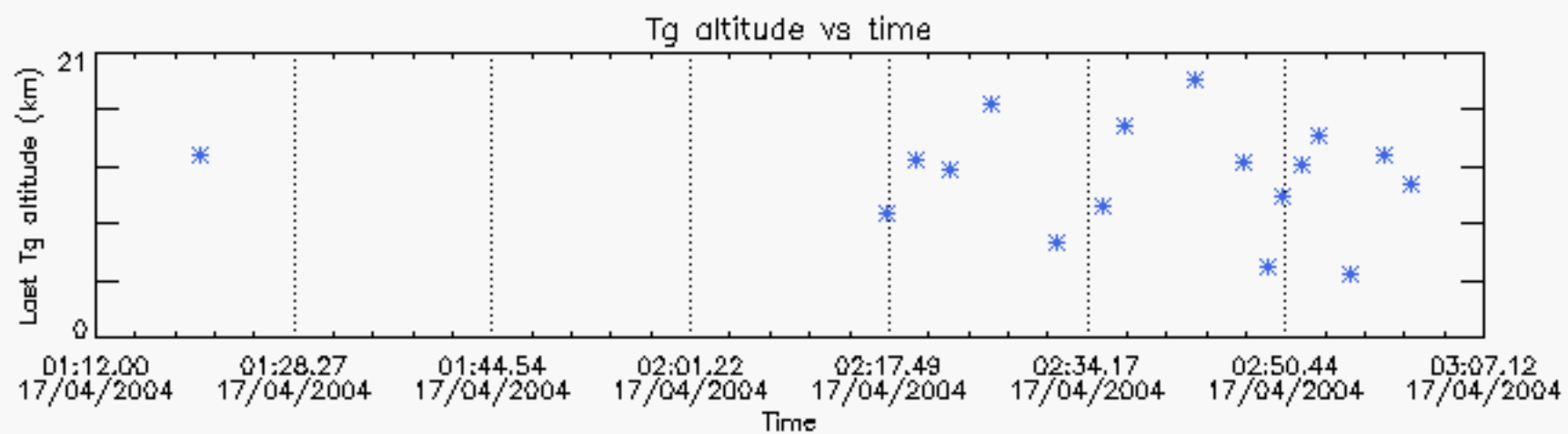
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.6	1447.7	1461.5	1447.5
St. deviation:	4.0221	4.9501	7.0214	7.9065
Maximum:	1509.0	1478.0	1508.0	1489.0
Minimum:	1447.0	1420.0	1447.0	1415.0
Number of data:	23750.	23750.	19450.	19450.



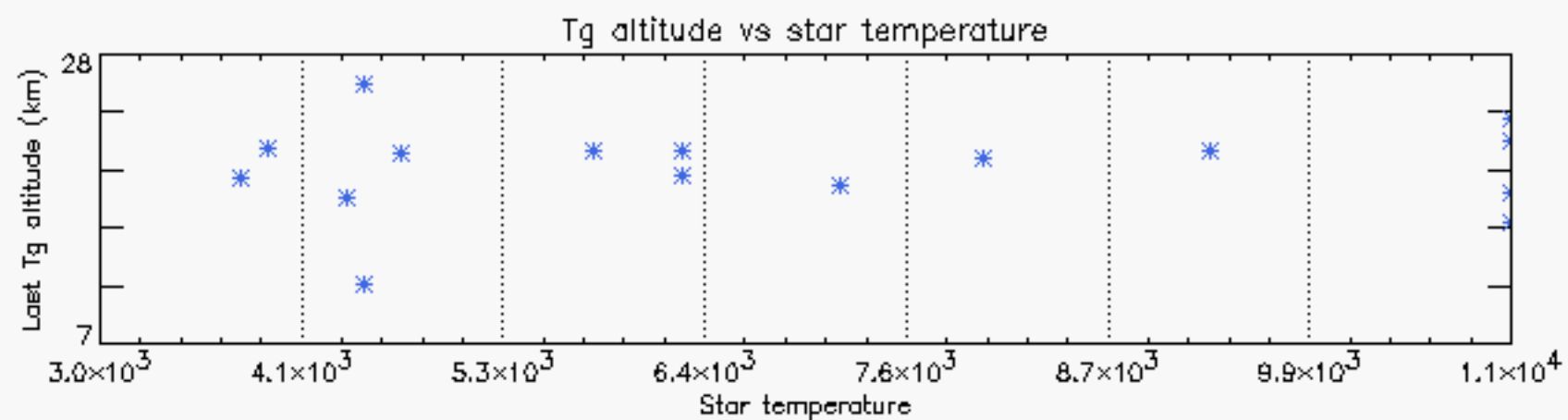
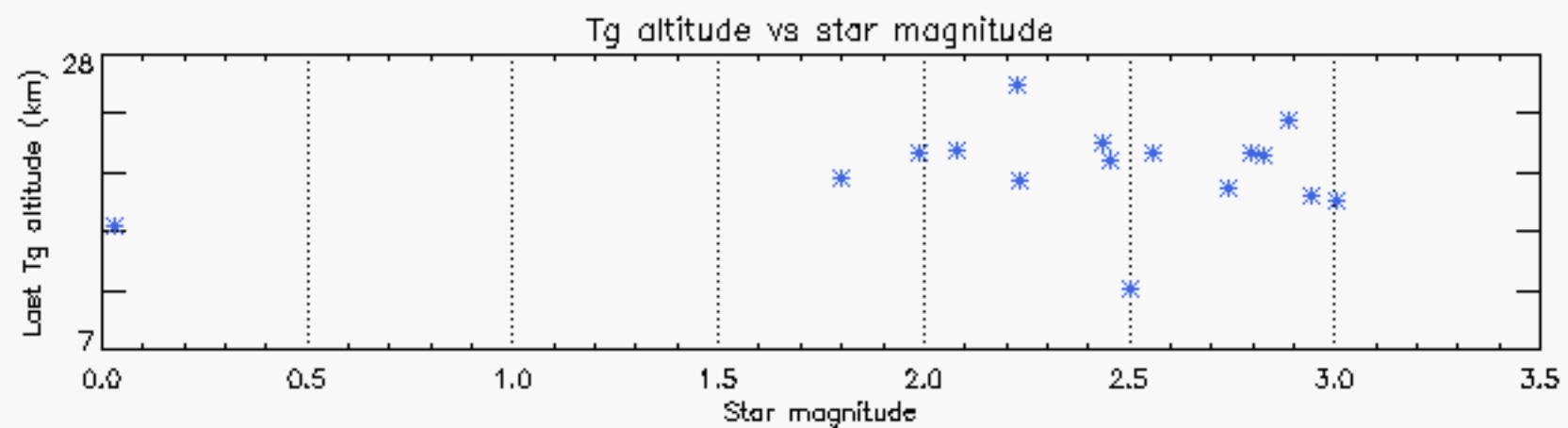
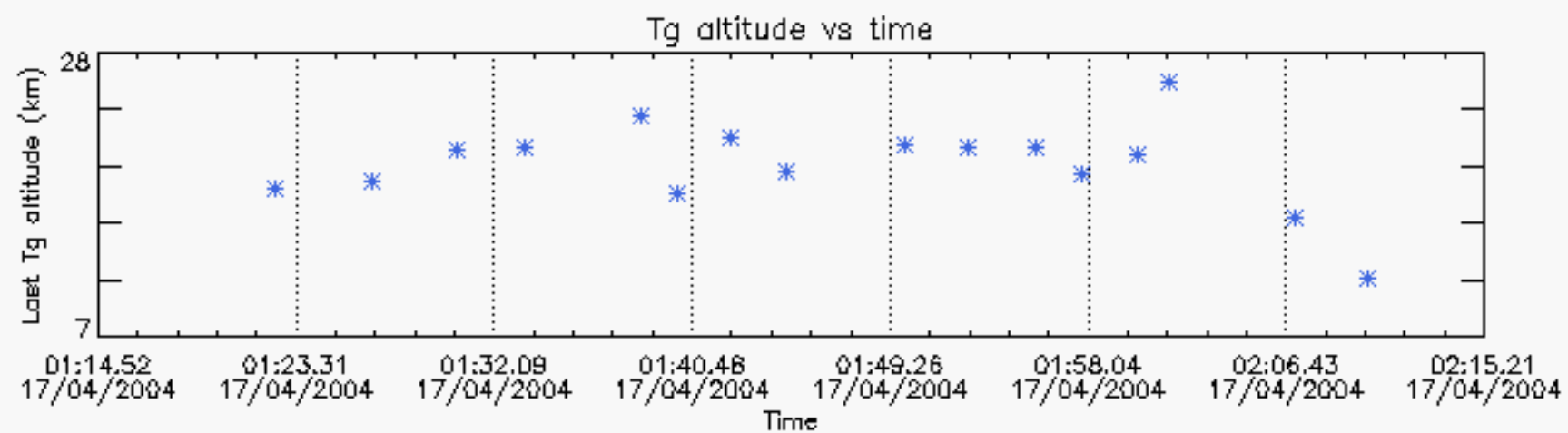




Tangent altitude at which the star is lost



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
14;	-1839.6;	01-APR-2004	12:11:23;	Bright	;	47.5;	144;	18Del	Cyg	;	2.86;	11000;	occ;	95;	0;	10913
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
18;	-987.3;	01-APR-2004	12:25:35;	Dark	;	65.5;	11;	53Alp	Aql	;	0.76;	8000;	occ;	131;	0;	10913
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
21;	-296.3;	01-APR-2004	12:37:06;	Dark	;	43.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	87;	0;	10913
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
30;	899.4;	01-APR-2004	12:57:02;	Dark	;	46.0;	26;	Gam	Cru	;	1.62;	2900;	occ;	92;	0;	10914
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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2;	-4350.3;	01-APR-2004	13:10:08;	Dark	;	68.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	136;	0;	10914
3;	-4155.5;	01-APR-2004	13:13:23;	Bright	;	45.5;	121;	29Gam Vir	;	2.74;	7200;	occ;	91;	0;	10914
4;	-3877.4;	01-APR-2004	13:18:01;	Bright	;	39.5;	62;	94Bet Leo	;	2.14;	9700;	occ;	79;	0;	10914
5;	-3780.3;	01-APR-2004	13:19:38;	Bright	;	38.0;	96;	68Del Leo	;	2.56;	9300;	occ;	76;	0;	10914
6;	-3675.7;	01-APR-2004	13:21:23;	Bright	;	39.0;	166;	17Eps Leo	;	2.98;	6000;	occ;	78;	0;	10914
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
10;	-3080.2;	01-APR-2004	13:31:18;	Bright	;	39.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	78;	0;	10914
11;	-2704.1;	01-APR-2004	13:37:34;	Bright	;	41.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	83;	0;	10914
12;	-2597.1;	01-APR-2004	13:39:21;	Bright	;	37.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	75;	0;	10914
13;	-2196.8;	01-APR-2004	13:46:02;	Bright	;	35.0;	76;	27Gam Cas	;	2.30;	30000;	occ;	70;	0;	10914
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
16;	-1724.5;	01-APR-2004	13:53:54;	Bright	;	46.0;	66;	37Gam Cyg	;	2.21;	5900;	occ;	92;	0;	10914
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
20;	-776.5;	01-APR-2004	14:09:42;	Dark	;	43.5;	142;	49Del Cap	;	2.85;	8900;	occ;	87;	0;	10914
21;	-440.8;	01-APR-2004	14:15:18;	Dark	;	40.0;	172;	Gam Gru	;	3.00;	13100;	occ;	80;	0;	10914
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
29;	679.0;	01-APR-2004	14:33:57;	Dark	;	49.5;	4;	Alp1Cen	;	-0.01;	5800;	occ;	99;	0;	10915
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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2;	-4350.2;	01-APR-2004	03:06:33;	Dark	;	66.5;	15;	67Alp Vir	;	0.98;	28000;	occ;	133;	0;	10908
3;	-4155.4;	01-APR-2004	03:09:48;	Bright	;	45.5;	121;	29Gam Vir	;	2.74;	7200;	occ;	91;	0;	10908
4;	-3877.7;	01-APR-2004	03:14:25;	Bright	;	40.5;	62;	94Bet Leo	;	2.14;	9700;	occ;	81;	0;	10908
5;	-3781.3;	01-APR-2004	03:16:02;	Bright	;	39.0;	96;	68Del Leo	;	2.56;	9300;	occ;	78;	0;	10908
6;	-3677.6;	01-APR-2004	03:17:45;	Bright	;	37.5;	166;	17Eps Leo	;	2.98;	6000;	occ;	75;	0;	10908
7;	-3561.1;	01-APR-2004	03:19:42;	Bright	;	67.5;	111;	8Eta Boo	;	2.68;	6000;	occ;	135;	0;	10908
8;	-3371.1;	01-APR-2004	03:22:52;	Bright	;	37.0;	174;	52Psi UMa	;	3.00;	4400;	occ;	74;	0;	10908
9;	-3190.5;	01-APR-2004	03:25:52;	Bright	;	39.5;	87;	64Gam UMa	;	2.43;	11000;	occ;	79;	0;	10908
10;	-3081.0;	01-APR-2004	03:27:42;	Bright	;	37.5;	36;	50Alp UMa	;	1.80;	6300;	occ;	75;	0;	10908
11;	-2702.2;	01-APR-2004	03:34:01;	Bright	;	41.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	83;	0;	10908
12;	-2597.8;	01-APR-2004	03:35:45;	Bright	;	38.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	77;	0;	10908
13;	-2198.5;	01-APR-2004	03:42:24;	Bright	;	36.0;	76;	27Gam Cas	;	2.30;	30000;	occ;	72;	0;	10908
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
18;	-1209.0;	01-APR-2004	03:58:54;	Dark	;	49.0;	61;	8Eps Peg	;	2.10;	3900;	occ;	98;	0;	10908
19;	-991.8;	01-APR-2004	04:02:31;	Dark	;	67.5;	11;	53Alp Aql	;	0.76;	8000;	occ;	135;	0;	10908
20;	-779.3;	01-APR-2004	04:06:04;	Dark	;	42.0;	142;	49Del Cap	;	2.85;	8900;	occ;	84;	0;	10908
21;	-442.8;	01-APR-2004	04:11:40;	Dark	;	41.0;	172;	Gam Gru	;	3.00;	13100;	occ;	82;	0;	10908
22;	-307.8;	01-APR-2004	04:13:55;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	10908
23;	-46.5;	01-APR-2004	04:18:16;	Dark	;	42.5;	45;	Alp Pav	;	1.94;	26000;	occ;	85;	0;	10908
24;	70.2;	01-APR-2004	04:20:13;	Dark	;	65.0;	116;	19Del Sgr	;	2.70;	4100;	occ;	130;	0;	10909
25;	302.0;	01-APR-2004	04:24:05;	Dark	;	53.5;	40;	The Sco	;	1.86;	7100;	occ;	107;	0;	10909
26;	406.8;	01-APR-2004	04:25:50;	Dark	;	45.0;	43;	Alp TrA	;	1.91;	4250;	occ;	90;	0;	10909
27;	518.4;	01-APR-2004	04:27:41;	Dark	;	42.0;	134;	Bet TrA	;	2.81;	6600;	occ;	84;	0;	10909
28;	676.7;	01-APR-2004	04:30:20;	Dark	;	46.5;	4;	Alp1Cen	;	-0.01;	5800;	occ;	93;	0;	10909
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
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 3;-4155.5; 01-APR-2004 04:50:23; Bright; 45.0; 121; 29Gam Vir ; 2.74; 7200;occ; 90; 0;10909
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 5;-3780.4; 01-APR-2004 04:56:39; Bright; 37.5; 96; 68Del Leo ; 2.56; 9300;occ; 75; 0;10909
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 13;-2198.4; 01-APR-2004 05:23:01; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;10909
 14;-2118.3; 01-APR-2004 05:24:21; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;10909
 15;-1838.9; 01-APR-2004 05:29:00; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;10909
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 19; -991.7; 01-APR-2004 05:43:07; Dark ; 70.5; 11; 53Alp Aql ; 0.76; 8000;occ; 141; 0;10909
 20; -778.5; 01-APR-2004 05:46:40; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;10909
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 24; 71.1; 01-APR-2004 06:00:50; Dark ; 64.0; 116; 19Del Sgr ; 2.70; 4100;occ; 128; 0;10910
 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
 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
 29; 811.9; 01-APR-2004 06:13:11; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 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
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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
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 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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 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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 26; 408.4; 01-APR-2004 09:27:39; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;10912
 27; 520.4; 01-APR-2004 09:29:31; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;10912
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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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