

# GOMOS Daily Report 22-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	23APR2004 03:58:12
Data source version	GOMOS/4.02
Start time of products	22-APR-2004 (22APR2004 00:00:00)
Stop time of products	23-APR-2004 (23APR2004 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

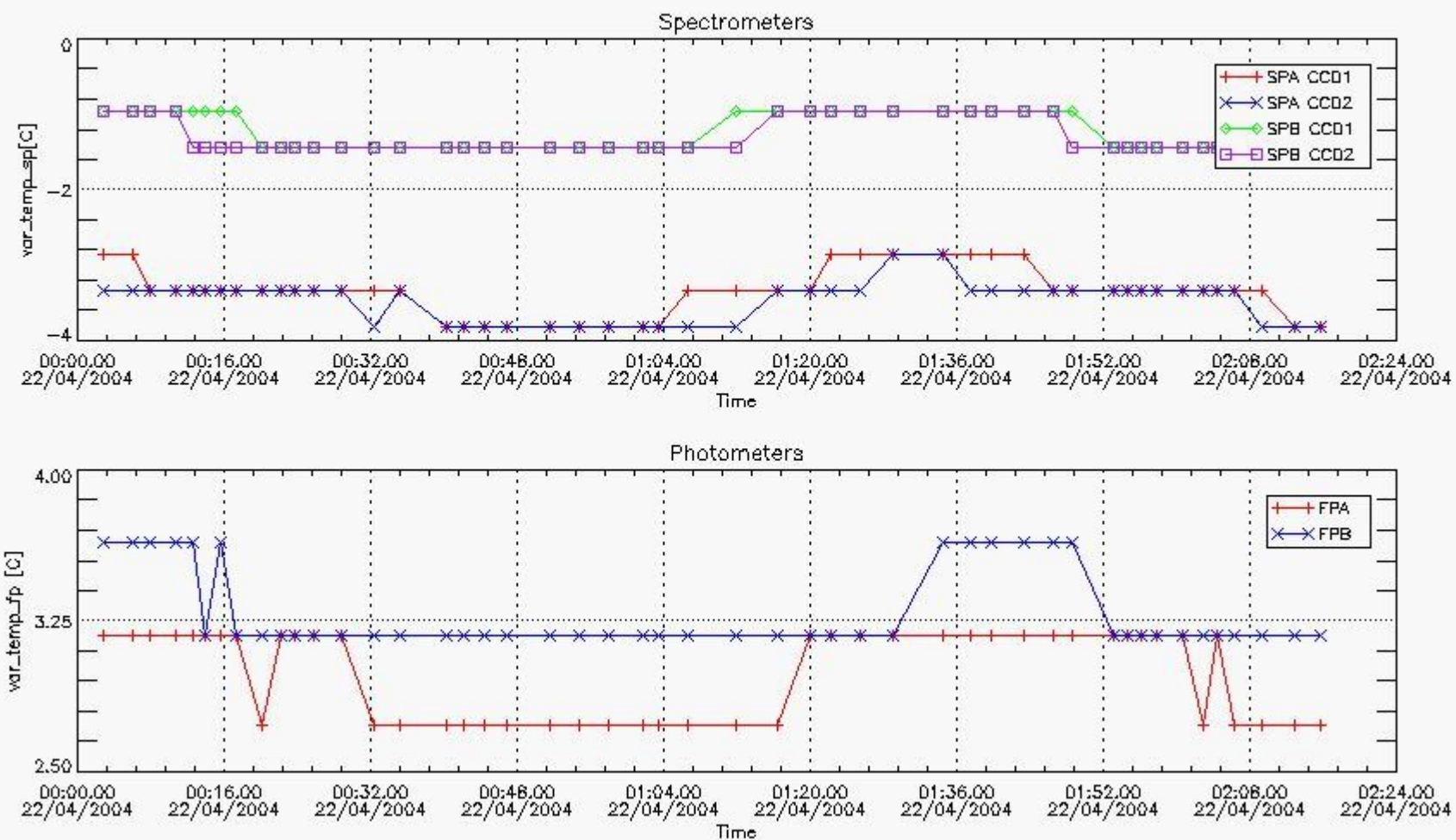
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040422_000244_000000702026_00131_11207_0027.N1	22-APR-2004 00:02:44	Dark	70.000	103	38Zet Sgr	2.6000	9700.0	140	11207	No
GOM_TRA_1PNPDE20040422_000558_000000702026_00131_11207_0028.N1	22-APR-2004 00:05:58	Dark	69.500	38	20Eps Sgr	1.8360	11000.	139	11207	No
GOM_TRA_1PNPDE20040422_000755_000000582026_00131_11207_0029.N1	22-APR-2004 00:07:55	Dark	57.500	40	The Sco	1.8590	7100.0	115	11207	No
GOM_TRA_1PNPDE20040422_001041_000000532026_00131_11207_0030.N1	22-APR-2004 00:10:41	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	11207	No
GOM_TRA_1PNPDE20040422_001236_000000422026_00131_11207_0031.N1	22-APR-2004 00:12:36	Dark	41.500	20	Bet Cru	1.2530	30000.	83	11207	No
GOM_TRA_1PNPDE20040422_001359_000000452026_00131_11207_0032.N1	22-APR-2004 00:13:59	Dark	45.000	78	Alp Lup	2.3040	28000.	90	11207	No
GOM_TRA_1PNPDE20040422_001534_000000432026_00131_11207_0033.N1	22-APR-2004 00:15:34	Dark	43.000	64	Gam Cen	2.2000	10600.	86	11207	No
GOM_TRA_1PNPDE20040422_001717_000000882026_00131_11207_0034.N1	22-APR-2004 00:17:17	Dark	87.500	16	21Alp Sco	1.0200	3000.0	175	11207	No
GOM_TRA_1PNPDE20040422_002003_000000732026_00131_11207_0000.N1	22-APR-2004 00:20:03	Dark	72.500	80	7Del Sco	2.3160	30000.	145	11207	Yes
GOM_TRA_1PNPDE20040422_002215_000000452026_00131_11207_0001.N1	22-APR-2004 00:22:15	Dark	45.000	169	46Gam Hya	2.9910	4700.0	90	11207	No
GOM_TRA_1PNPDE20040422_002344_000000512026_00131_11207_0002.N1	22-APR-2004 00:23:44	Bright	50.500	122	9Alp2Lib	2.7470	9700.0	101	11207	No
GOM_TRA_1PNPDE20040422_002544_000000432026_00131_11207_0003.N1	22-APR-2004 00:25:44	Bright	42.500	15	67Alp Vir	0.97600	28000.	85	11207	No
GOM_TRA_1PNPDE20040422_002845_000000412026_00131_11207_0004.N1	22-APR-2004 00:28:45	Bright	41.000	121	29Gam Vir	2.7400	7200.0	82	11207	No
GOM_TRA_1PNPDE20040422_003220_000000392026_00131_11207_0005.N1	22-APR-2004 00:32:20	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	11207	No
GOM_TRA_1PNPDE20040422_003512_000000422026_00131_11207_0006.N1	22-APR-2004 00:35:12	Bright	42.000	111	8Eta Boo	2.6800	6000.0	84	11207	No
GOM_TRA_1PNPDE20040422_004016_000000382026_00131_11207_0007.N1	22-APR-2004 00:40:16	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11207	No
GOM_TRA_1PNPDE20040422_004215_000000402026_00131_11207_0008.N1	22-APR-2004 00:42:15	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	11207	No
GOM_TRA_1PNPDE20040422_004424_000000402026_00131_11207_0009.N1	22-APR-2004 00:44:24	Bright	39.500	87	64Gam UMa	2.4330	11000.	79	11207	No
GOM_TRA_1PNPDE20040422_004655_000000422026_00131_11207_0010.N1	22-APR-2004 00:46:55	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	11207	No
GOM_TRA_1PNPDE20040422_005133_000000402026_00131_11207_0011.N1	22-APR-2004 00:51:33	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	11207	No
GOM_TRA_1PNPDE20040422_005449_000000392026_00131_11207_0012.N1	22-APR-2004 00:54:49	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	11207	No
GOM_TRA_1PNPDE20040422_005759_000000662026_00131_11207_0013.N1	22-APR-2004 00:57:59	Bright	66.000	69	33Gam Dra	2.2310	3800.0	132	11207	No
GOM_TRA_1PNPDE20040422_010147_000000422026_00131_11207_0014.N1	22-APR-2004 01:01:47	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	11207	No
GOM_TRA_1PNPDE20040422_010322_000000362026_00131_11207_0015.N1	22-APR-2004 01:03:22	Bright	36.000	74	11Bet Cas	2.2680	6600.0	72	11207	No
GOM_TRA_1PNPDE20040422_010641_000001392026_00131_11207_0016.N1	22-APR-2004 01:06:41	Bright	138.50	5	3Alp Lyr	0.033000	11000.	277	11207	No
GOM_TRA_1PNPDE20040422_011150_000000612026_00131_11207_0017.N1	22-APR-2004 01:11:50	Dark	61.000	92	53Eps Cyg	2.5000	4500.0	122	11207	No
GOM_TRA_1PNPDE20040422_011625_000000442026_00131_11207_0018.N1	22-APR-2004 01:16:25	Dark	44.000	90	54Alp Peg	2.4870	11000.	88	11207	No
GOM_TRA_1PNPDE20040422_011954_000000582026_00131_11207_0019.N1	22-APR-2004 01:19:54	Dark	58.000	61	8Eps Peg	2.1000	3900.0	116	11207	No
GOM_TRA_1PNPDE20040422_012221_000000512026_00131_11207_0020.N1	22-APR-2004 01:22:21	Dark	51.000	162	34Alp Aqr	2.9440	5350.0	102	11207	No
GOM_TRA_1PNPDE20040422_012522_000000592026_00131_11207_0021.N1	22-APR-2004 01:25:22	Dark	59.000	154	22Bet Aqr	2.8990	5700.0	118	11207	No
GOM_TRA_1PNPDE20040422_012856_000000482026_00131_11207_0022.N1	22-APR-2004 01:28:56	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	11207	No
GOM_TRA_1PNPDE20040422_013433_000000452026_00131_11207_0023.N1	22-APR-2004 01:34:33	Dark	45.000	31	Alp Gru	1.7340	15200.	90	11207	No
GOM_TRA_1PNPDE20040422_013732_000000412026_00131_11207_0024.N1	22-APR-2004 01:37:32	Dark	40.500	148	Alp Tuc	2.8780	4100.0	81	11207	No
GOM_TRA_1PNPDE20040422_013947_000000422026_00132_11208_0025.N1	22-APR-2004 01:39:47	Dark	41.500	45	Alp Pav	1.9400	26000.	83	11208	No
GOM_TRA_1PNPDE20040422_014321_000000692026_00132_11208_0026.N1	22-APR-2004 01:43:21	Dark	68.500	103	38Zet Sgr	2.6000	9700.0	137	11208	No
GOM_TRA_1PNPDE20040422_014636_000000722026_00132_11208_0027.N1	22-APR-2004 01:46:36	Dark	72.000	38	20Eps Sgr	1.8360	11000.	144	11208	No
GOM_TRA_1PNPDE20040422_014832_000000612026_00132_11208_0028.N1	22-APR-2004 01:48:32	Dark	61.000	40	The Sco	1.8590	7100.0	122	11208	No
GOM_TRA_1PNPDE20040422_015311_000000442026_00132_11208_0030.N1	22-APR-2004 01:53:11	Dark	43.500	20	Bet Cru	1.2530	30000.	87	11208	No
GOM_TRA_1PNPDE20040422_015436_000000432026_00132_11208_0031.N1	22-APR-2004 01:54:36	Dark	43.000	78	Alp Lup	2.3040	28000.	86	11208	No
GOM_TRA_1PNPDE20040422_015610_000000402026_00132_11208_0032.N1	22-APR-2004 01:56:10	Dark	40.000	64	Gam Cen	2.2000	10600.	80	11208	No
GOM_TRA_1PNPDE20040422_015753_000000862026_00132_11208_0033.N1	22-APR-2004 01:57:53	Dark	86.000	16	21Alp Sco	1.0200	3000.0	172	11208	No
GOM_TRA_1PNPDE20040422_020040_000000722026_00132_11208_0034.N1	22-APR-2004 02:00:40	Dark	71.500	80	7Del Sco	2.3160	30000.	143	11208	No
GOM_TRA_1PNPDE20040422_020251_000000462026_00132_11208_0000.N1	22-APR-2004 02:02:51	Dark	46.000	169	46Gam Hya	2.9910	4700.0	92	11208	No
GOM_TRA_1PNPDE20040422_020420_000000502026_00132_11208_0001.N1	22-APR-2004 02:04:20	Bright	50.000	122	9Alp2Lib	2.7470	9700.0	100	11208	No
GOM_TRA_1PNPDE20040422_020619_000000452026_00132_11208_0002.N1	22-APR-2004 02:06:19	Bright	44.500	15	67Alp Vir	0.97600	28000.	89	11208	No
GOM_TRA_1PNPDE20040422_020923_000000392026_00132_11208_0003.N1	22-APR-2004 02:09:23	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	11208	No
GOM_TRA_1PNPDE20040422_021256_000000392026_00132_11208_0004.N1	22-APR-2004 02:12:56	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	11208	No
GOM_TRA_1PNPDE20040422_021547_000000442026_00132_11208_0005.N1	22-APR-2004 02:15:47	Bright	43.500	111	8Eta Boo	2.6800	6000.0	87	11208	No

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



#### 4. Overview of dark signal processing per product

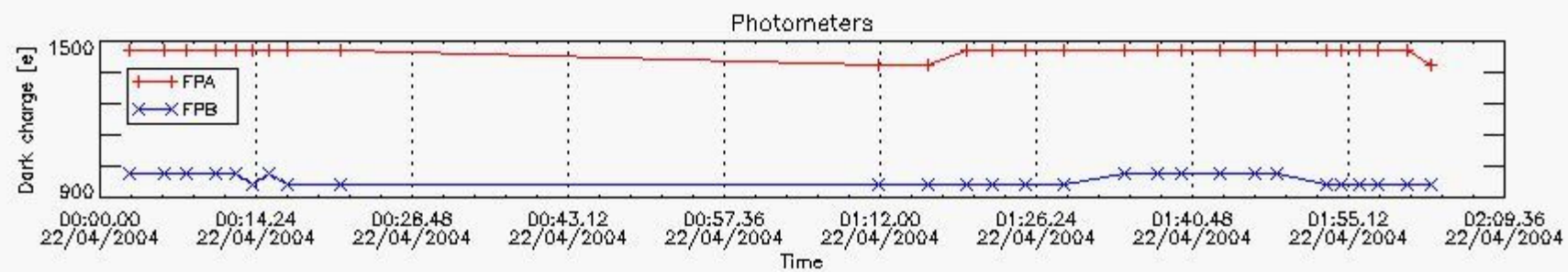
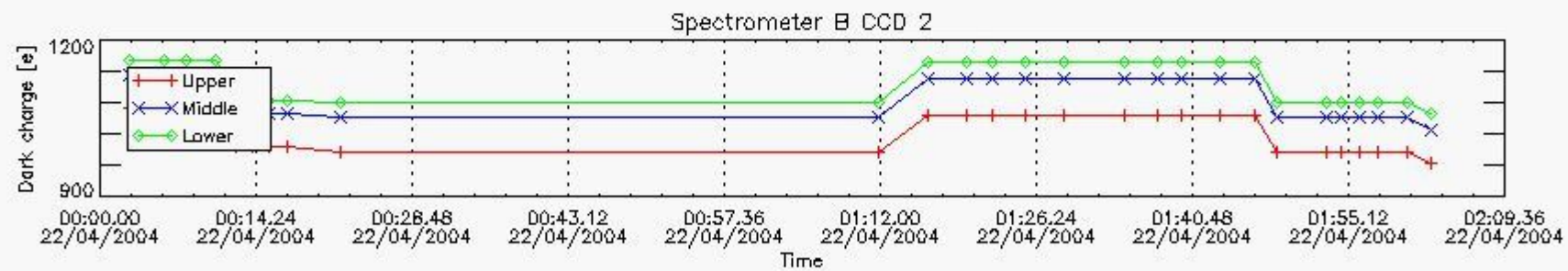
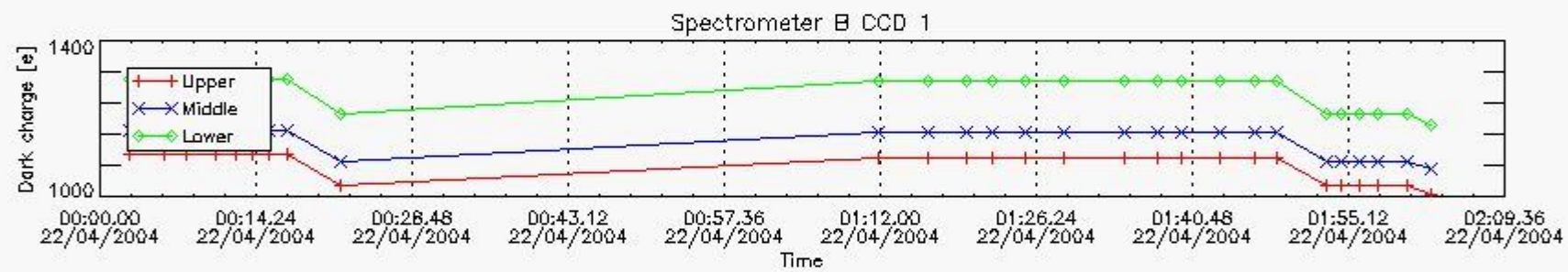
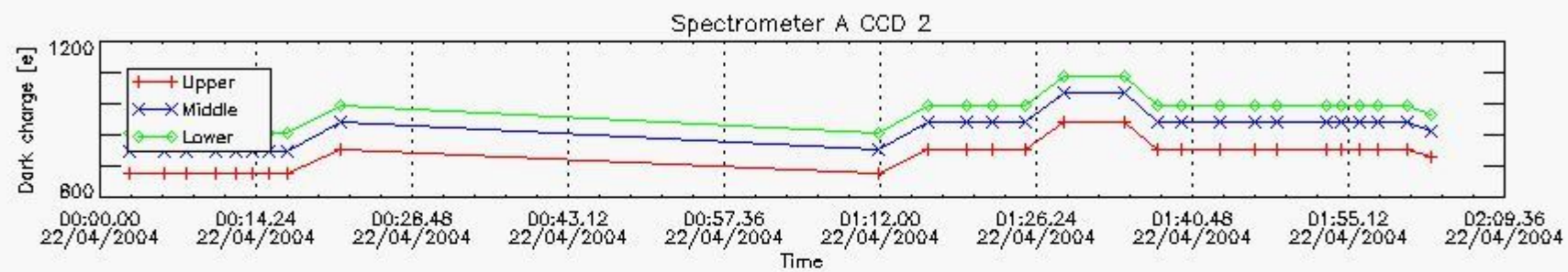
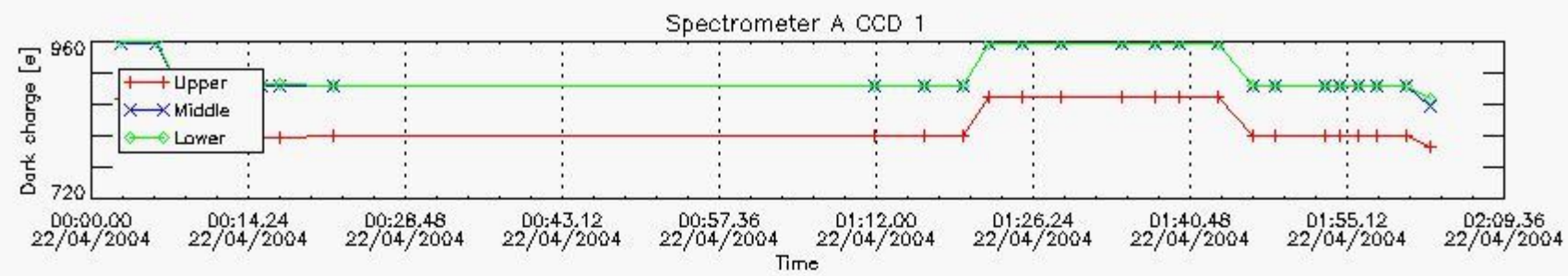
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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

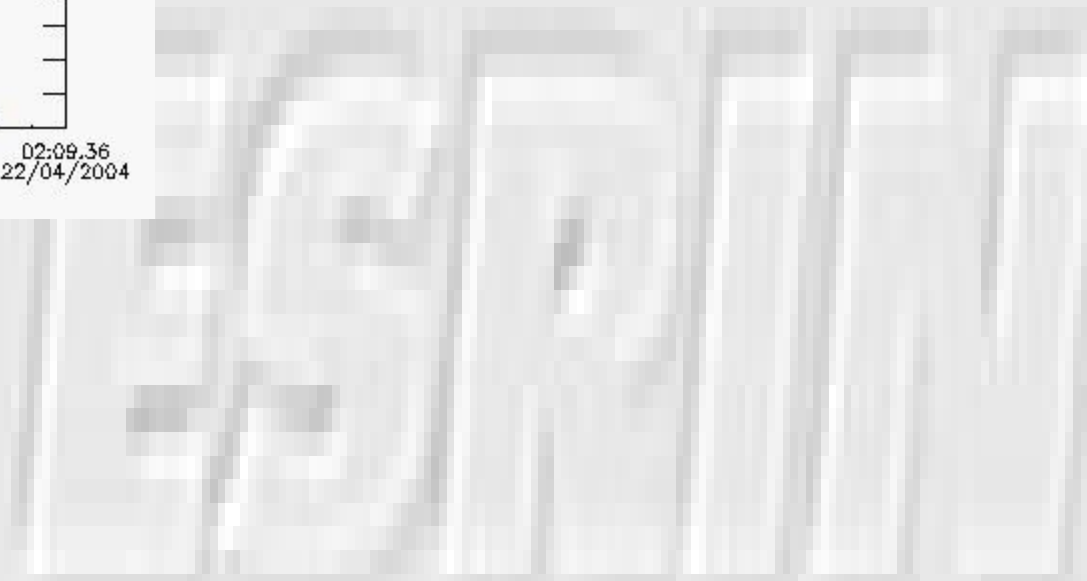




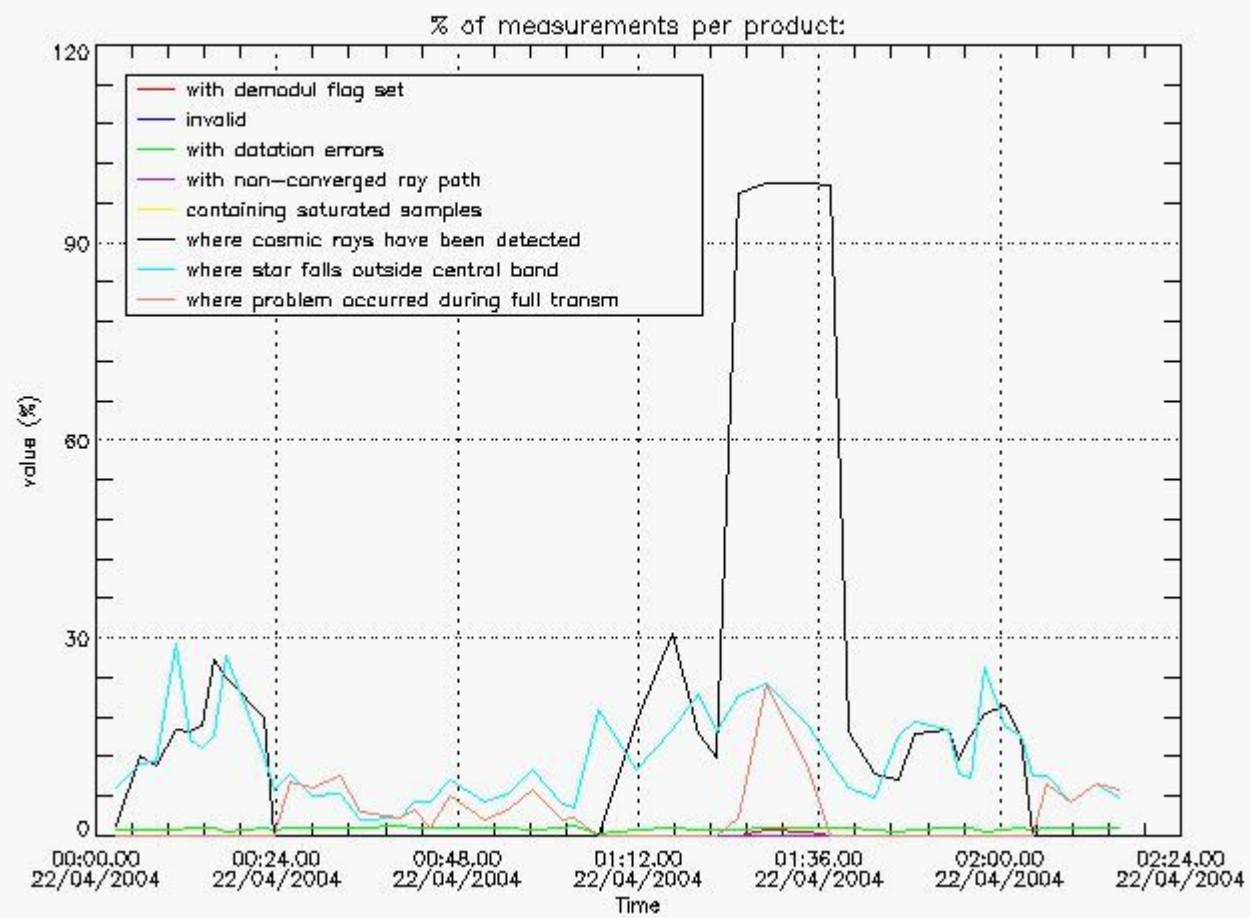
## 5. Demodulation flag and quality information monitoring

### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.7660 %
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



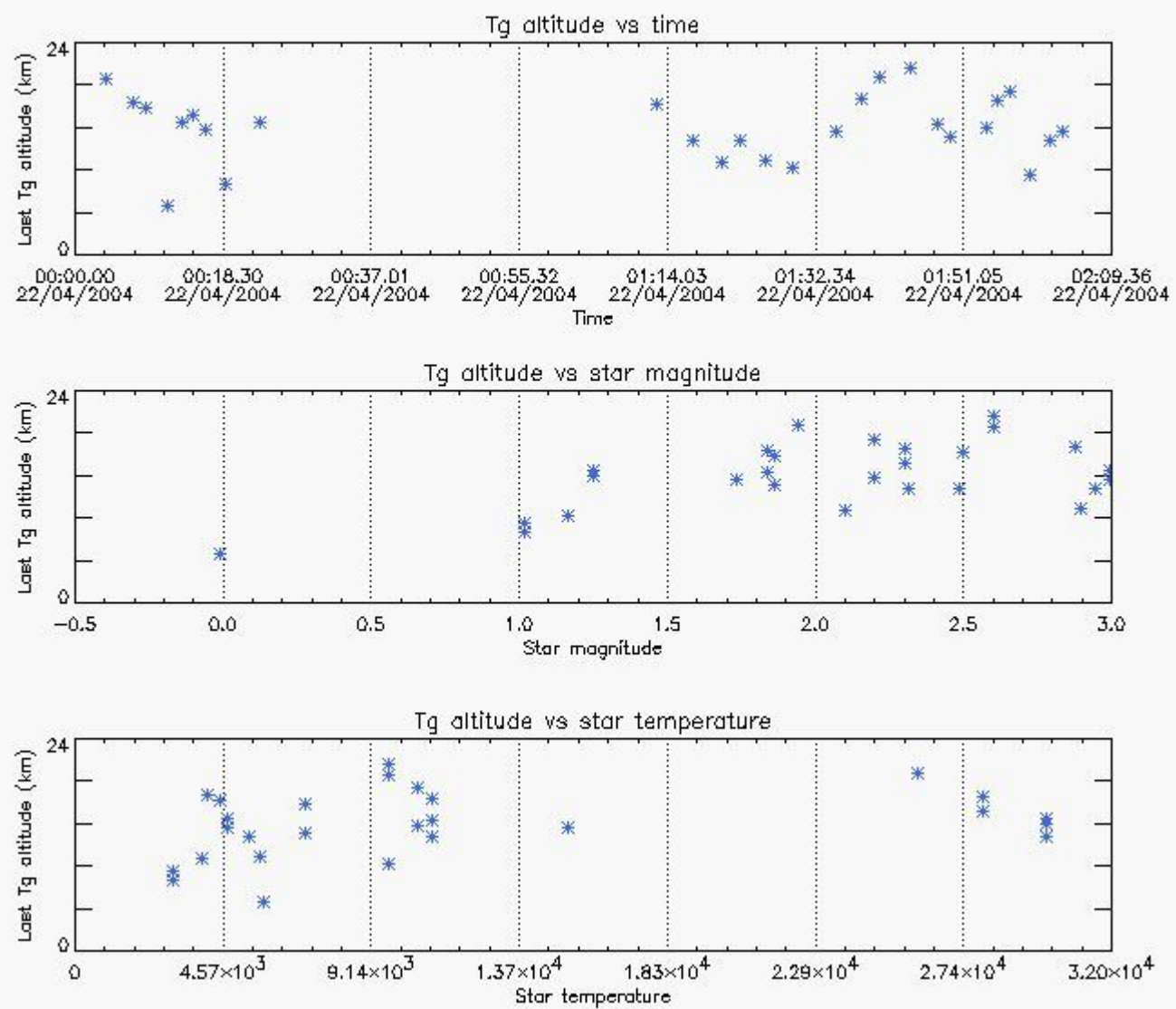
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.357	20.057
St. deviation:	3.7870	2.5256
Maximum:	21.073	23.744
Minimum:	5.5048	12.652
Number of data:	27.000	20.000

### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

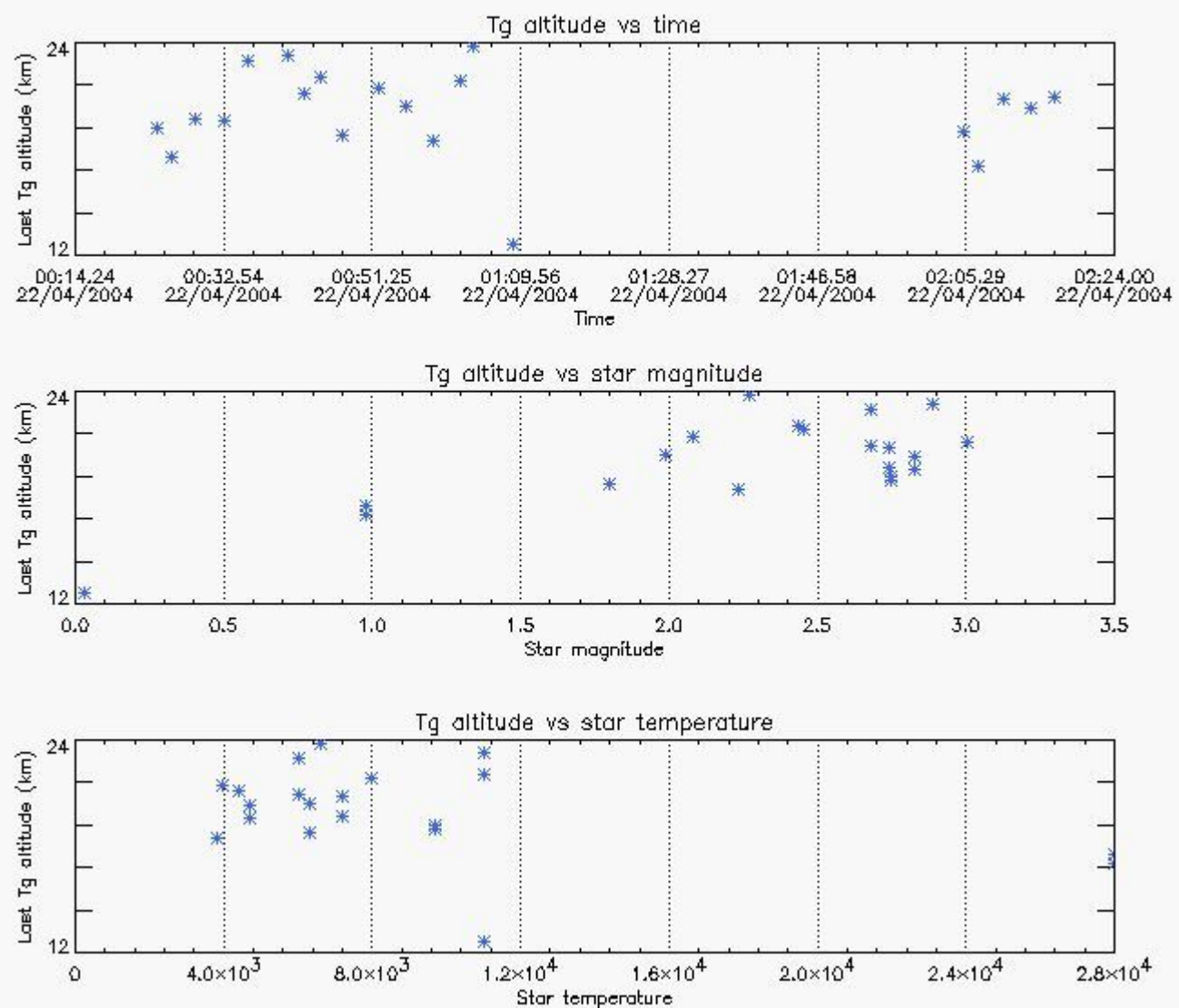


6.3 Plot for BRIGHT limb products





## 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

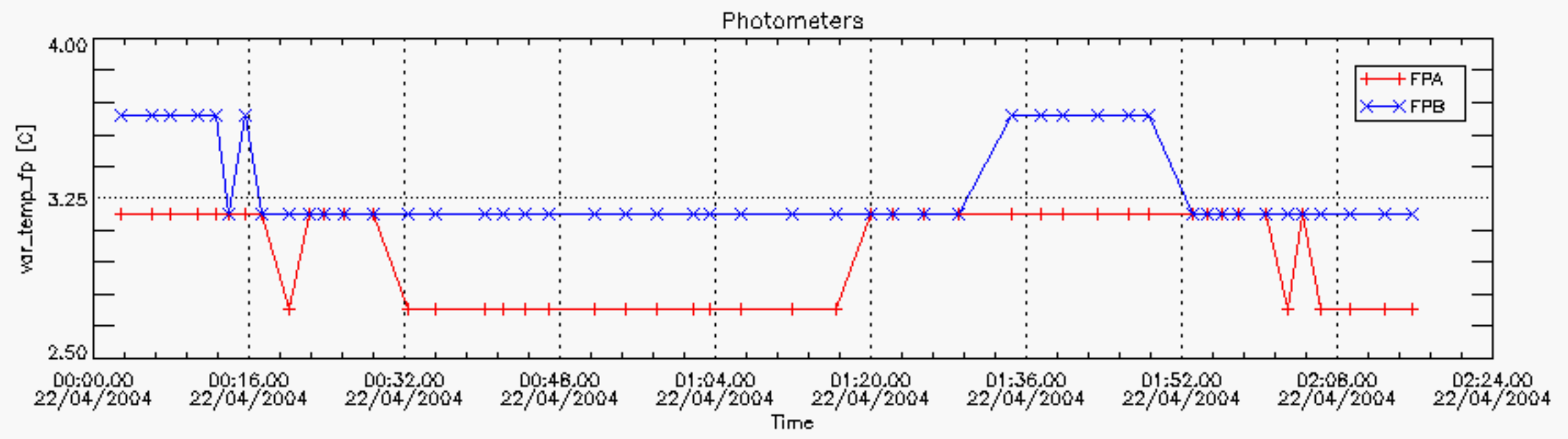
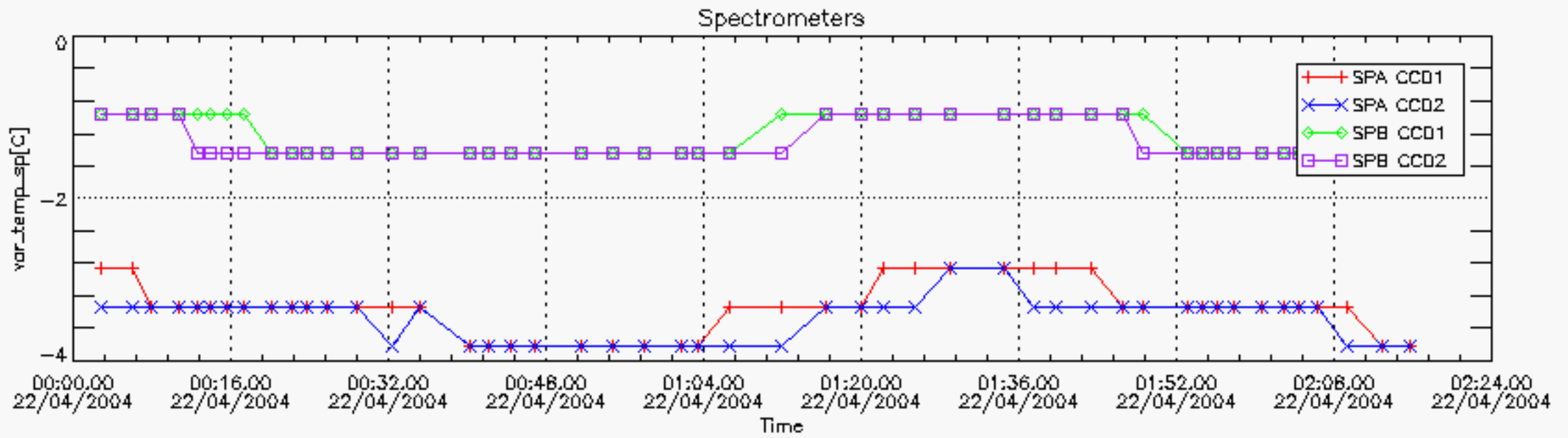
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

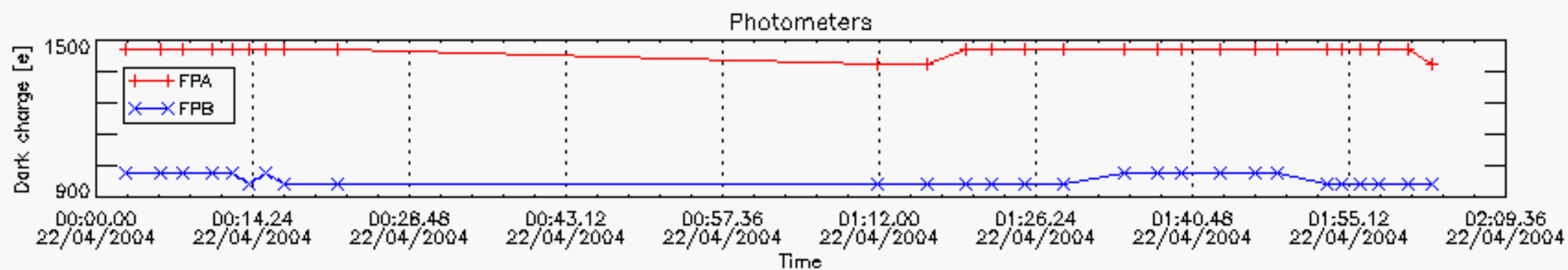
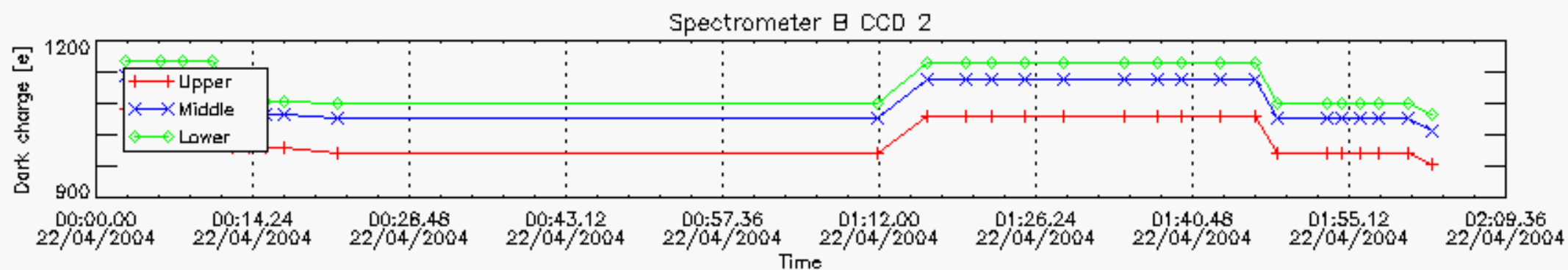
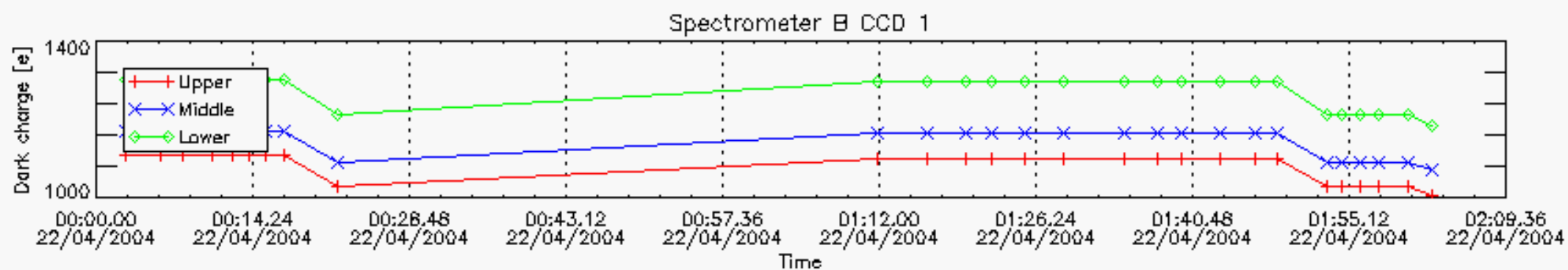
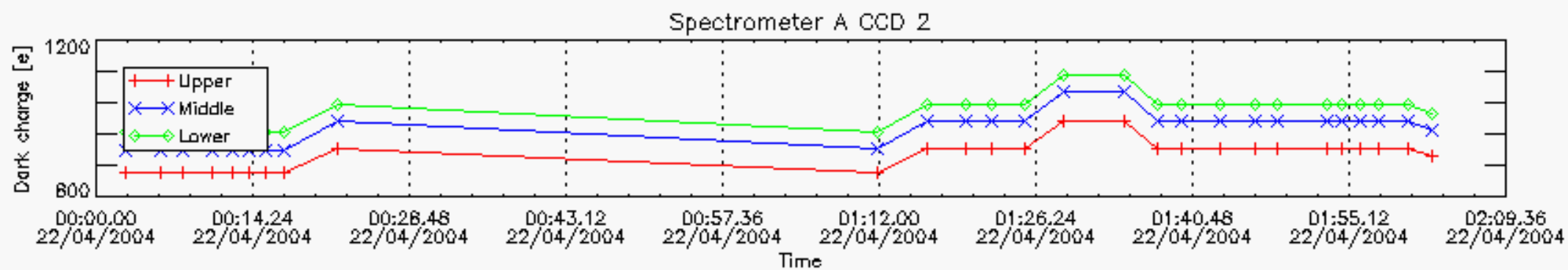
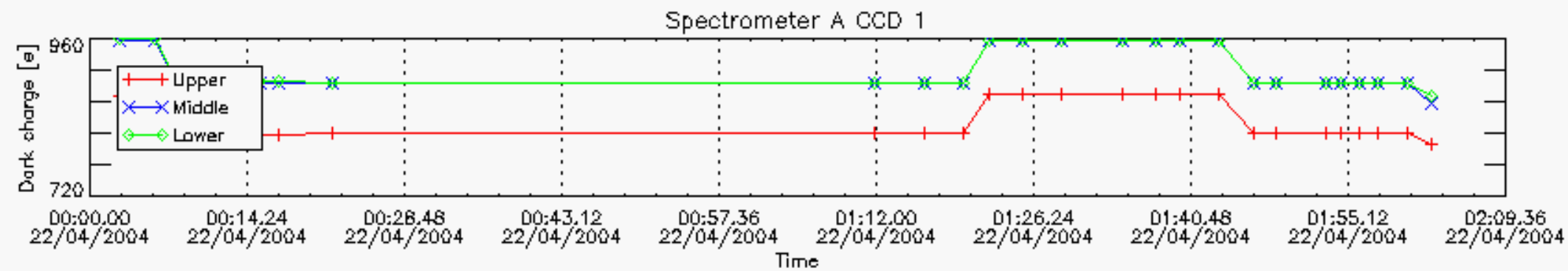
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.1	1448.0	1462.1	1447.3
St. deviation:	4.9465	5.5581	7.3292	7.7238
Maximum:	1494.0	1487.0	1509.0	1492.0
Minimum:	1441.0	1418.0	1432.0	1423.0
Number of data:	36800.	36800.	24950.	24950.





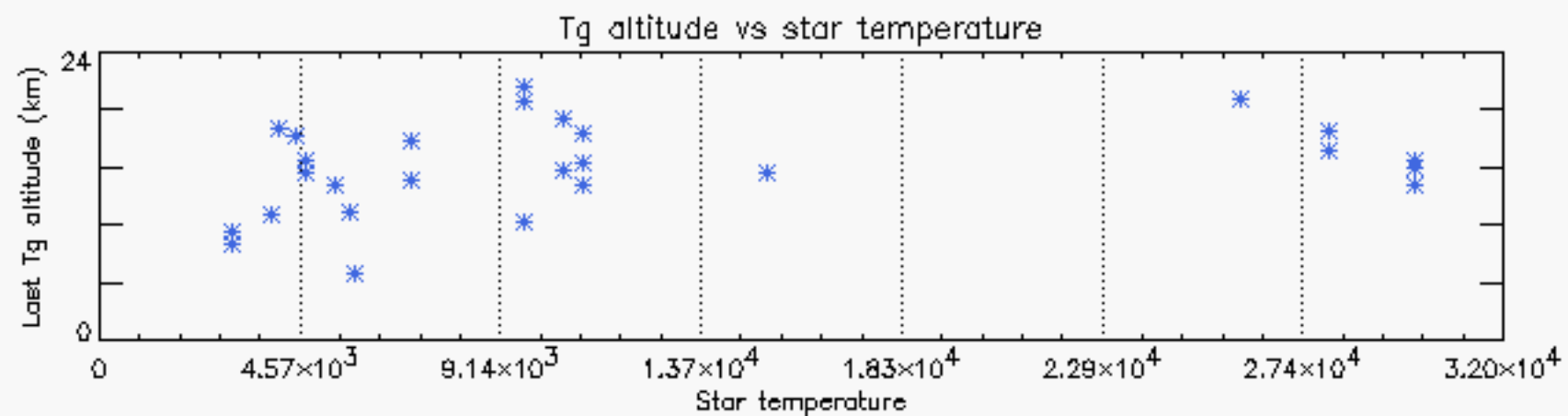
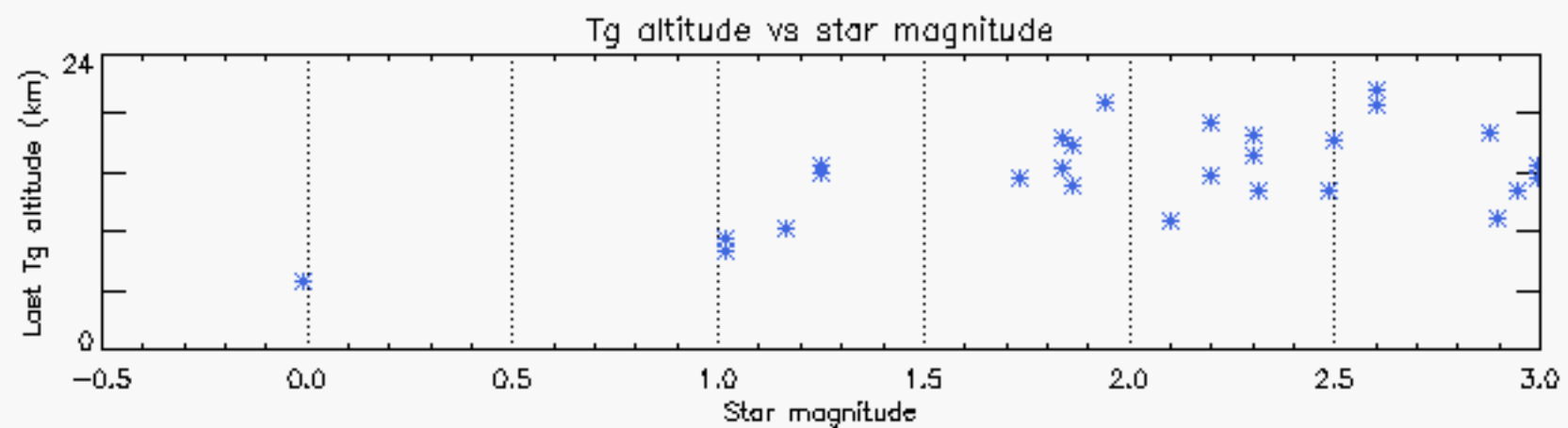
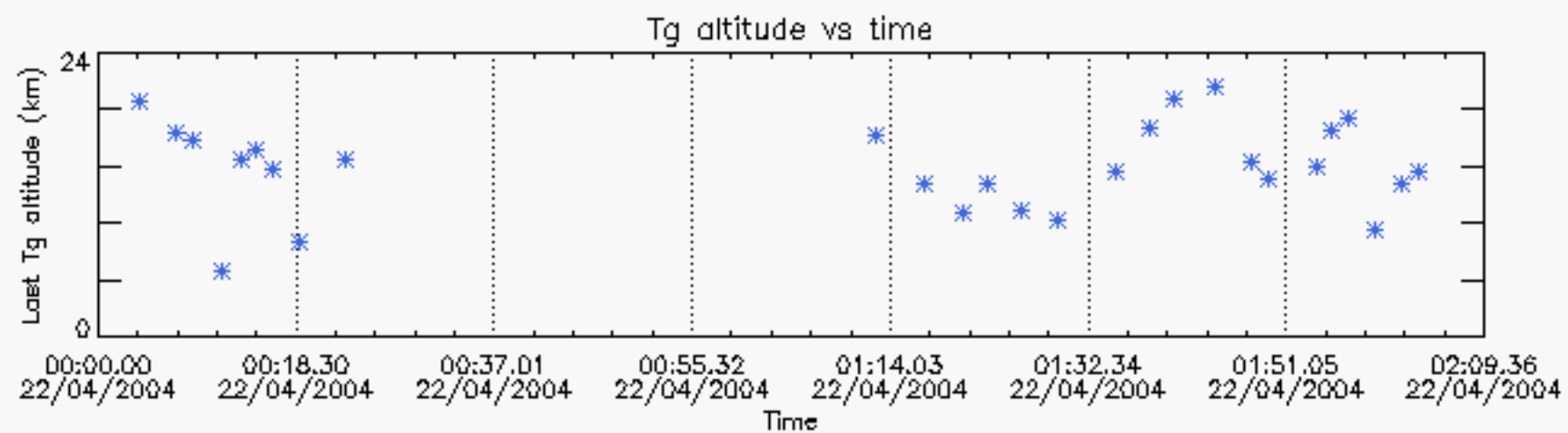






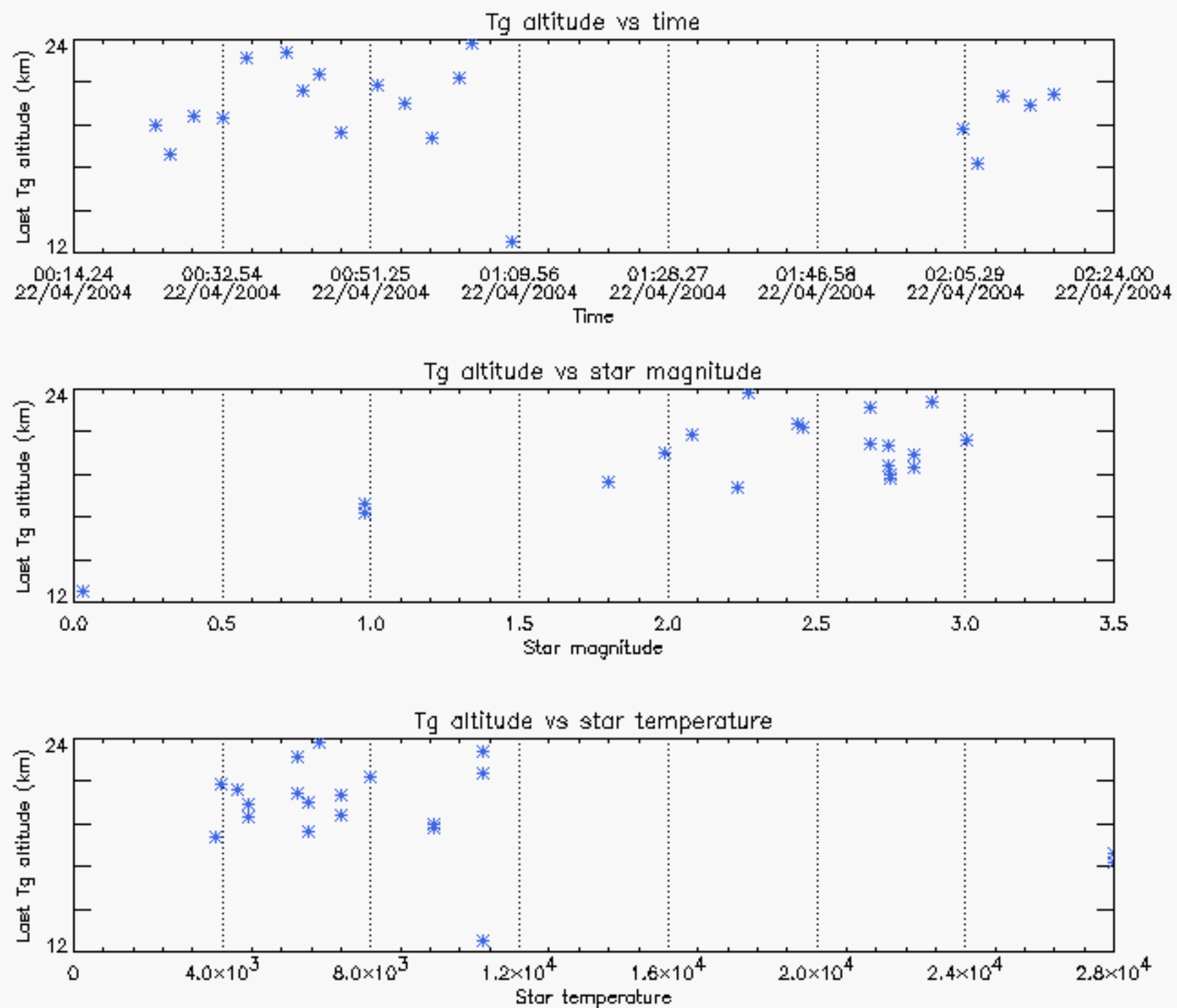


Tangent altitude at which the star is lost





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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1;	-4457.4;	01-APR-2004	13:08:21;	Dark	;	43.5;	100;	4Gam Crv	;	2.58;	13100;occ;	87;	0;	10914
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
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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1;-4447.0; 01-APR-2004 04:45:32; Dark ; 45.5; 163; 7Del Crv ; 2.94; 11000;occ; 91; 0;10909  
2;-4350.2; 01-APR-2004 04:47:09; Dark ; 66.5; 15; 67Alp Vir ; 0.98; 28000;occ; 133; 0;10909  
3;-4155.5; 01-APR-2004 04:50:23; Bright; 45.0; 121; 29Gam Vir ; 2.74; 7200;occ; 90; 0;10909  
4;-3877.0; 01-APR-2004 04:55:02; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;10909  
5;-3780.4; 01-APR-2004 04:56:39; Bright; 37.5; 96; 68Del Leo ; 2.56; 9300;occ; 75; 0;10909  
6;-3677.4; 01-APR-2004 04:58:21; Bright; 38.5; 166; 17Eps Leo ; 2.98; 6000;occ; 77; 0;10909  
7;-3562.4; 01-APR-2004 05:00:16; Bright; 67.5; 111; 8Eta Boo ; 2.68; 6000;occ; 135; 0;10909  
8;-3371.6; 01-APR-2004 05:03:27; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;10909  
9;-3191.1; 01-APR-2004 05:06:28; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;10909  
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11;-2703.1; 01-APR-2004 05:14:36; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 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  
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21; -442.0; 01-APR-2004 05:52:17; Dark ; 39.0; 172; Gam Gru ; 3.00; 13100;occ; 78; 0;10909  
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23; -43.7; 01-APR-2004 05:58:55; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;10909  
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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31; 1015.9; 01-APR-2004 06:16:35; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;10910  
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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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  
6;-3677.4; 01-APR-2004 04:58:21; Bright; 38.5; 166; 17Eps Leo ; 2.98; 6000;occ; 77; 0;10909  
7;-3562.4; 01-APR-2004 05:00:16; Bright; 67.5; 111; 8Eta Boo ; 2.68; 6000;occ; 135; 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  
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17;-1603.4; 01-APR-2004 05:32:55; Bright; 46.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 92; 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  
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21; -442.0; 01-APR-2004 05:52:17; Dark ; 39.0; 172; Gam Gru ; 3.00; 13100;occ; 78; 0;10909  
22; -307.1; 01-APR-2004 05:54:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10909  
23; -43.7; 01-APR-2004 05:58:55; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;10909  
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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31; 1015.9; 01-APR-2004 06:16:35; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;10910  
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



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1;	-4457.5;	01-APR-2004	06:25:57;	Dark	;	44.5;	100;	4Gam Crv	;	2.58;	13100;	occ;	89;	1;	10910
2;	-4349.5;	01-APR-2004	06:27:45;	Dark	;	70.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	140;	0;	10910
3;	-4155.1;	01-APR-2004	06:31:00;	Bright	;	45.5;	121;	29Gam Vir	;	2.74;	7200;	occ;	91;	0;	10910
4;	-3877.1;	01-APR-2004	06:35:38;	Bright	;	39.5;	62;	94Bet Leo	;	2.14;	9700;	occ;	79;	0;	10910
5;	-3780.1;	01-APR-2004	06:37:15;	Bright	;	37.5;	96;	68Del Leo	;	2.56;	9300;	occ;	75;	0;	10910
6;	-3677.0;	01-APR-2004	06:38:58;	Bright	;	36.5;	166;	17Eps Leo	;	2.98;	6000;	occ;	73;	0;	10910
7;	-3563.9;	01-APR-2004	06:40:51;	Bright	;	67.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	134;	0;	10910
8;	-3371.7;	01-APR-2004	06:44:03;	Bright	;	39.0;	174;	52Psi UMa	;	3.00;	4400;	occ;	78;	0;	10910
9;	-3190.7;	01-APR-2004	06:47:04;	Bright	;	39.0;	87;	64Gam UMa	;	2.43;	11000;	occ;	78;	0;	10910
10;	-3080.0;	01-APR-2004	06:48:55;	Bright	;	37.5;	36;	50Alp UMa	;	1.80;	6300;	occ;	75;	0;	10910
11;	-2702.7;	01-APR-2004	06:55:12;	Bright	;	38.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	77;	0;	10910
12;	-2597.5;	01-APR-2004	06:56:57;	Bright	;	38.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	76;	0;	10910
13;	-2198.0;	01-APR-2004	07:03:37;	Bright	;	45.0;	76;	27Gam Cas	;	2.30;	30000;	occ;	90;	0;	10910
14;	-2118.6;	01-APR-2004	07:04:56;	Bright	;	38.0;	68;	18Alp Cas	;	2.22;	4500;	occ;	76;	0;	10910
15;	-1839.7;	01-APR-2004	07:09:35;	Bright	;	46.0;	144;	18Del Cyg	;	2.86;	11000;	occ;	92;	0;	10910
16;	-1724.7;	01-APR-2004	07:11:30;	Bright	;	46.5;	66;	37Gam Cyg	;	2.21;	5900;	occ;	93;	0;	10910
17;	-1605.0;	01-APR-2004	07:13:30;	Bright	;	48.0;	92;	53Eps Cyg	;	2.50;	4500;	occ;	96;	0;	10910
18;	-1209.1;	01-APR-2004	07:20:06;	Dark	;	46.5;	61;	8Eps Peg	;	2.10;	3900;	occ;	93;	0;	10910
19;	-989.8;	01-APR-2004	07:23:45;	Dark	;	69.0;	11;	53Alp Aql	;	0.76;	8000;	occ;	138;	0;	10910
20;	-778.2;	01-APR-2004	07:27:17;	Dark	;	43.0;	142;	49Del Cap	;	2.85;	8900;	occ;	86;	0;	10910
21;	-441.8;	01-APR-2004	07:32:53;	Dark	;	40.5;	172;	Gam Gru	;	3.00;	13100;	occ;	81;	0;	10910
22;	-296.8;	01-APR-2004	07:35:18;	Dark	;	40.5;	31;	Alp Gru	;	1.73;	15200;	occ;	81;	0;	10910
23;	-167.3;	01-APR-2004	07:37:28;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	10910
24;	-43.3;	01-APR-2004	07:39:32;	Dark	;	43.5;	45;	Alp Pav	;	1.94;	26000;	occ;	87;	0;	10910
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
28;	519.6;	01-APR-2004	07:48:55;	Dark	;	42.0;	134;	Bet TrA	;	2.81;	6600;	occ;	84;	0;	10911
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
34;	1250.9;	01-APR-2004	08:01:06;	Dark	;	154.0;	97;	8Bet1Sco	;	2.56;	30000;	occ;	308;	0;	10911
35;	1578.3;	01-APR-2004	08:06:33;	Dark	;	44.0;	100;	4Gam Crv	;	2.58;	13100;	occ;	88;	0;	10911
36;	1686.6;	01-APR-2004	08:08:21;	Dark	;	69.5;	15;	67Alp Vir	;	0.98;	28000;	occ;	139;	0;	10911

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2;	-4155.3;	01-APR-2004	08:11:35;	Bright	;	45.5;	121;	29Gam Vir	;	2.74;	7200;	occ;	91;	0;	10911
3;	-3877.0;	01-APR-2004	08:16:14;	Bright	;	39.0;	62;	94Bet Leo	;	2.14;	9700;	occ;	78;	0;	10911
4;	-3779.9;	01-APR-2004	08:17:51;	Bright	;	37.5;	96;	68Del Leo	;	2.56;	9300;	occ;	75;	0;	10911
5;	-3676.4;	01-APR-2004	08:19:34;	Bright	;	37.5;	166;	17Eps Leo	;	2.98;	6000;	occ;	75;	0;	10911
6;	-3565.1;	01-APR-2004	08:21:26;	Bright	;	67.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	134;	0;	10911
7;	-3371.5;	01-APR-2004	08:24:39;	Bright	;	38.5;	174;	52Psi UMa	;	3.00;	4400;	occ;	77;	0;	10911
8;	-3190.6;	01-APR-2004	08:27:40;	Bright	;	37.5;	87;	64Gam UMa	;	2.43;	11000;	occ;	75;	0;	10911
9;	-3079.8;	01-APR-2004	08:29:31;	Bright	;	38.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	76;	0;	10911
10;	-2702.7;	01-APR-2004	08:35:48;	Bright	;	41.0;	60;	7Bet UMi	;	2.08;	3950;	occ;	82;	0;	10911
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
14;	-1839.9;	01-APR-2004	08:50:11;	Bright	;	46.0;	144;	18Del Cyg	;	2.86;	11000;	occ;	92;	0;	10911
15;	-1725.1;	01-APR-2004	08:52:06;	Bright	;	45.5;	66;	37Gam Cyg	;	2.21;	5900;	occ;	91;	0;	10911
16;	-1603.1;	01-APR-2004	08:54:08;	Bright	;	45.5;	92;	53Eps Cyg	;	2.50;	4500;	occ;	91;	0;	10911
17;	-1208.1;	01-APR-2004	09:00:43;	Dark	;	46.0;	61;	8Eps Peg	;	2.10;	3900;	occ;	92;	0;	10911
18;	-989.0;	01-APR-2004	09:04:22;	Dark	;	79.5;	11;	53Alp Aql	;	0.76;	8000;	occ;	159;	0;	10911
19;	-777.4;	01-APR-2004	09:07:53;	Dark	;	40.0;	142;	49Del Cap	;	2.85;	8900;	occ;	80;	0;	10911
20;	-441.6;	01-APR-2004	09:13:29;	Dark	;	39.5;	172;	Gam Gru	;	3.00;	13100;	occ;	79;	0;	10911
21;	-296.4;	01-APR-2004	09:15:54;	Dark	;	41.0;	31;	Alp Gru	;	1.73;	15200;	occ;	82;	0;	10911
22;	-166.9;	01-APR-2004	09:18:04;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	10911
23;	-42.6;	01-APR-2004	09:20:08;	Dark	;	40.5;	45;	Alp Pav	;	1.94;	26000;	occ;	81;	0;	10911
24;	74.2;	01-APR-2004	09:22:05;	Dark	;	64.5;	116;	19Del Sgr	;	2.70;	4100;	occ;	129;	0;	10912
25;	286.9;	01-APR-2004	09:25:38;	Dark	;	55.0;	85;	Kap Sco	;	2.41;	28000;	occ;	110;	0;	10912
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
28;	678.2;	01-APR-2004	09:32:09;	Dark	;	54.5;	4;	Alp1Cen	;	-0.01;	5800;	occ;	109;	0;	10912
29;	812.3;	01-APR-2004	09:34:23;	Dark	;	45.0;	12;	Alp1Cru	;	0.77;	30000;	occ;	90;	0;	10912
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33; 1252.5; 01-APR-2004 09:41:43; Dark ; 159.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 318; 0;10912
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8;-3191.4; 01-APR-2004 10:08:15; Bright; 38.0; 87; 64Gam UMa ; 2.43; 11000;occ; 76; 0;10912
9;-3079.8; 01-APR-2004 10:10:07; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;10912
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11;-2596.9; 01-APR-2004 10:18:10; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;10912
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9;	-3208.8;	08-APR-2004	03:05:25;	Bright;	;	37.0;	87;	64Gam UMa	;	2.43;	11000;occ;	74;	0;	11008
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