

# GOMOS Daily Report 02-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	03APR2004 07:00:07
Data source version	GOMOS/4.02
Start time of products	02-APR-2004 (02APR2004 00:00:00)
Stop time of products	03-APR-2004 (03APR2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	1

## 2. Summary of products arrived in PCF

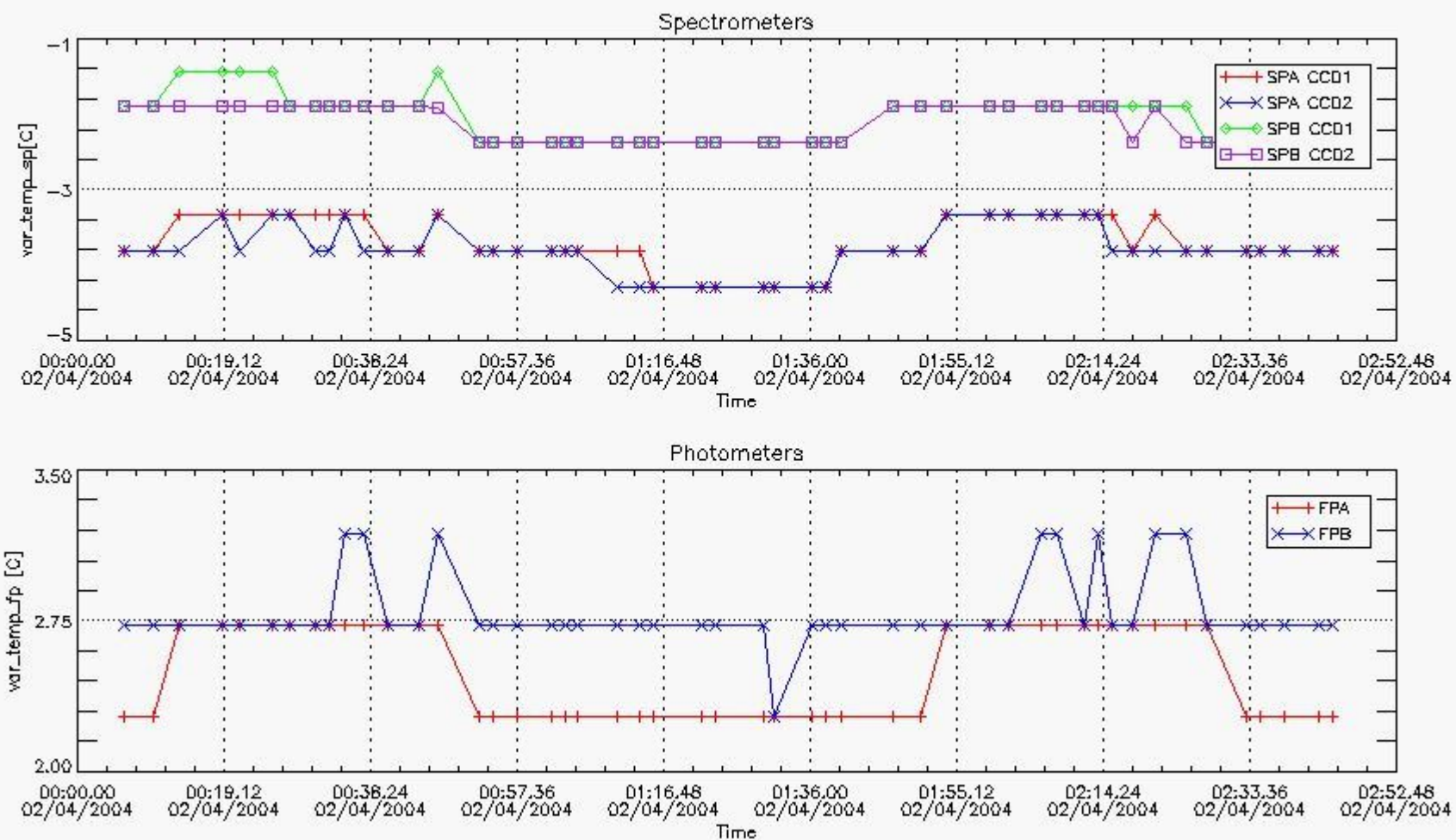
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040402_000608_000000482025_00345_10920_0017.N1	02-APR-2004 00:06:08	Dark	47.500	61	8Eps Peg	2.1000	3900.0	95	10920	No
GOM_TRA_1PNPDE20040402_000951_000000722025_00345_10920_0018.N1	02-APR-2004 00:09:51	Dark	71.500	11	53Alp Aql	0.76500	8000.0	143	10920	No
GOM_TRA_1PNPDE20040402_001319_000000452025_00345_10920_0019.N1	02-APR-2004 00:13:19	Dark	44.500	142	49Del Cap	2.8500	8900.0	89	10920	No
GOM_TRA_1PNPDE20040402_001852_000000432025_00345_10920_0020.N1	02-APR-2004 00:18:52	Dark	42.500	172	Gam Gru	3.0030	13100.	85	10920	No
GOM_TRA_1PNPDE20040402_002119_000000422025_00345_10920_0021.N1	02-APR-2004 00:21:19	Dark	42.000	31	Alp Gru	1.7340	15200.	84	10920	No
GOM_TRA_1PNPDE20040402_002534_000000432025_00345_10920_0022.N1	02-APR-2004 00:25:34	Dark	43.000	45	Alp Pav	1.9400	26000.	86	10920	No
GOM_TRA_1PNPDE20040402_002745_000000582025_00346_10921_0023.N1	02-APR-2004 00:27:45	Dark	57.500	38	20Eps Sgr	1.8360	11000.	115	10921	No
GOM_TRA_1PNPDE20040402_003112_000000582025_00346_10921_0024.N1	02-APR-2004 00:31:12	Dark	58.000	85	Kap Sco	2.4070	28000.	116	10921	No
GOM_TRA_1PNPDE20040402_003303_000000492025_00346_10921_0025.N1	02-APR-2004 00:33:03	Dark	48.500	43	Alp TrA	1.9100	4250.0	97	10921	No
GOM_TRA_1PNPDE20040402_003459_000000422025_00346_10921_0026.N1	02-APR-2004 00:34:59	Dark	41.500	134	Bet TrA	2.8100	6600.0	83	10921	No
GOM_TRA_1PNPDE20040402_003735_000000532025_00346_10921_0027.N1	02-APR-2004 00:37:35	Dark	52.500	4	Alp1Cen	-0.010000	5800.0	105	10921	No
GOM_TRA_1PNPDE20040402_004038_000001222025_00346_10921_0028.N1	02-APR-2004 00:40:38	Dark	122.00	16	21Alp Sco	1.0200	3000.0	244	10921	No
GOM_TRA_1PNPDE20040402_004443_000000522025_00346_10921_0029.N1	02-APR-2004 00:44:43	Dark	52.000	54	5The Cen	2.0550	4500.0	104	10921	No
GOM_TRA_1PNPDE20040402_004717_000001472025_00346_10921_0000.N1	02-APR-2004 00:47:17	Dark	146.50	97	8Bet1Sco	2.5610	30000.	293	10921	Yes
GOM_TRA_1PNPDE20040402_005232_000000442025_00346_10921_0001.N1	02-APR-2004 00:52:32	Dark	43.500	100	4Gam Crv	2.5800	13100.	87	10921	No
GOM_TRA_1PNPDE20040402_005419_000000602025_00346_10921_0002.N1	02-APR-2004 00:54:19	Dark	60.000	15	67Alp Vir	0.97600	28000.	120	10921	No
GOM_TRA_1PNPDE20040402_005733_000000462025_00346_10921_0003.N1	02-APR-2004 00:57:33	Bright	45.500	121	29Gam Vir	2.7400	7200.0	91	10921	No
GOM_TRA_1PNPDE20040402_010208_000000432025_00346_10921_0004.N1	02-APR-2004 01:02:08	Bright	42.500	62	94Bet Leo	2.1360	9700.0	85	10921	No
GOM_TRA_1PNPDE20040402_010348_000000392025_00346_10921_0005.N1	02-APR-2004 01:03:48	Bright	39.000	96	68Del Leo	2.5600	9300.0	78	10921	No
GOM_TRA_1PNPDE20040402_010536_000000382025_00346_10921_0006.N1	02-APR-2004 01:05:36	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	10921	No
GOM_TRA_1PNPDE20040402_011036_000000392025_00346_10921_0007.N1	02-APR-2004 01:10:36	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	10921	No
GOM_TRA_1PNPDE20040402_011336_000000382025_00346_10921_0008.N1	02-APR-2004 01:13:36	Bright	38.000	87	64Gam UMa	2.4330	11000.	76	10921	No
GOM_TRA_1PNPDE20040402_011528_000000382025_00346_10921_0009.N1	02-APR-2004 01:15:28	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	10921	No
GOM_TRA_1PNPDE20040402_012143_000000412025_00346_10921_0010.N1	02-APR-2004 01:21:43	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	10921	No
GOM_TRA_1PNPDE20040402_012332_000000362025_00346_10921_0011.N1	02-APR-2004 01:23:32	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	10921	No
GOM_TRA_1PNPDE20040402_012949_000000372025_00346_10921_0012.N1	02-APR-2004 01:29:49	Bright	36.500	110	37Del Cas	2.6780	8900.0	73	10921	No
GOM_TRA_1PNPDE20040402_013120_000000402025_00346_10921_0013.N1	02-APR-2004 01:31:20	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	10921	No
GOM_TRA_1PNPDE20040402_013609_000000482025_00346_10921_0014.N1	02-APR-2004 01:36:09	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	10921	No
GOM_TRA_1PNPDE20040402_013805_000000452025_00346_10921_0015.N1	02-APR-2004 01:38:05	Bright	45.000	66	37Gam Cyg	2.2080	5900.0	90	10921	No
GOM_TRA_1PNPDE20040402_014008_000000462025_00346_10921_0016.N1	02-APR-2004 01:40:08	Bright	46.000	92	53Eps Cyg	2.5000	4500.0	92	10921	No
GOM_TRA_1PNPDE20040402_014644_000000492025_00346_10921_0017.N1	02-APR-2004 01:46:44	Dark	49.000	61	8Eps Peg	2.1000	3900.0	98	10921	No
GOM_TRA_1PNPDE20040402_015029_000000712025_00346_10921_0018.N1	02-APR-2004 01:50:29	Dark	71.000	11	53Alp Aql	0.76500	8000.0	142	10921	No
GOM_TRA_1PNPDE20040402_015354_000000432025_00346_10921_0019.N1	02-APR-2004 01:53:54	Dark	43.000	142	49Del Cap	2.8500	8900.0	86	10921	No
GOM_TRA_1PNPDE20040402_015929_000000402025_00346_10921_0020.N1	02-APR-2004 01:59:29	Dark	39.500	172	Gam Gru	3.0030	13100.	79	10921	No
GOM_TRA_1PNPDE20040402_020155_000000402025_00346_10921_0021.N1	02-APR-2004 02:01:55	Dark	39.500	31	Alp Gru	1.7340	15200.	79	10921	No
GOM_TRA_1PNPDE20040402_020610_000000412025_00346_10921_0022.N1	02-APR-2004 02:06:10	Dark	41.000	45	Alp Pav	1.9400	26000.	82	10921	No
GOM_TRA_1PNPDE20040402_020822_000000562025_00347_10922_0023.N1	02-APR-2004 02:08:22	Dark	55.500	38	20Eps Sgr	1.8360	11000.	111	10922	No
GOM_TRA_1PNPDE20040402_021149_000000572025_00347_10922_0024.N1	02-APR-2004 02:11:49	Dark	57.000	85	Kap Sco	2.4070	28000.	114	10922	No
GOM_TRA_1PNPDE20040402_021341_000000442025_00347_10922_0025.N1	02-APR-2004 02:13:41	Dark	44.000	43	Alp TrA	1.9100	4250.0	88	10922	No
GOM_TRA_1PNPDE20040402_021535_000000412025_00347_10922_0026.N1	02-APR-2004 02:15:35	Dark	41.000	134	Bet TrA	2.8100	6600.0	82	10922	No
GOM_TRA_1PNPDE20040402_021811_000000552025_00347_10922_0027.N1	02-APR-2004 02:18:11	Dark	55.000	4	Alp1Cen	-0.010000	5800.0	110	10922	No
GOM_TRA_1PNPDE20040402_022116_000001232025_00347_10922_0028.N1	02-APR-2004 02:21:16	Dark	123.00	16	21Alp Sco	1.0200	3000.0	246	10922	No
GOM_TRA_1PNPDE20040402_022519_000000542025_00347_10922_0029.N1	02-APR-2004 02:25:19	Dark	54.000	54	5The Cen	2.0550	4500.0	108	10922	No
GOM_TRA_1PNPDE20040402_022754_000001522025_00347_10922_0030.N1	02-APR-2004 02:27:54	Dark	151.50	97	8Bet1Sco	2.5610	30000.	303	10922	No
GOM_TRA_1PNPDE20040402_023308_000000462025_00347_10922_0000.N1	02-APR-2004 02:33:08	Dark	45.500	100	4Gam Crv	2.5800	13100.	91	10922	No
GOM_TRA_1PNPDE20040402_023455_000000692025_00347_10922_0001.N1	02-APR-2004 02:34:55	Dark	69.000	15	67Alp Vir	0.97600	28000.	138	10922	No
GOM_TRA_1PNPDE20040402_023809_000000452025_00347_10922_0002.N1	02-APR-2004 02:38:09	Bright	44.500	121	29Gam Vir	2.7400	7200.0	89	10922	No
GOM_TRA_1PNPDE20040402_024244_000000432025_00347_10922_0003.N1	02-APR-2004 02:42:44	Bright	42.500	62	94Bet Leo	2.1360	9700.0	85	10922	No
GOM_TRA_1PNPDE20040402_024423_000000402025_00347_10922_0004.N1	02-APR-2004 02:44:23	Bright	40.000	96	68Del Leo	2.5600	9300.0	80	10922	No

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



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

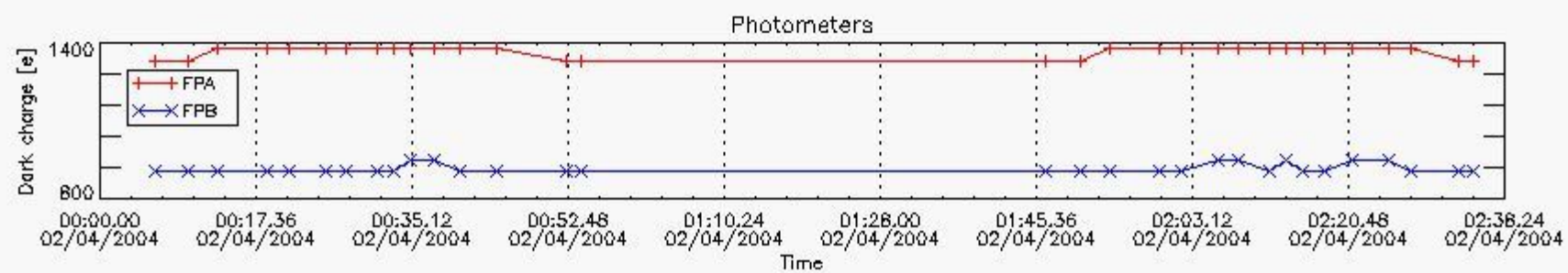
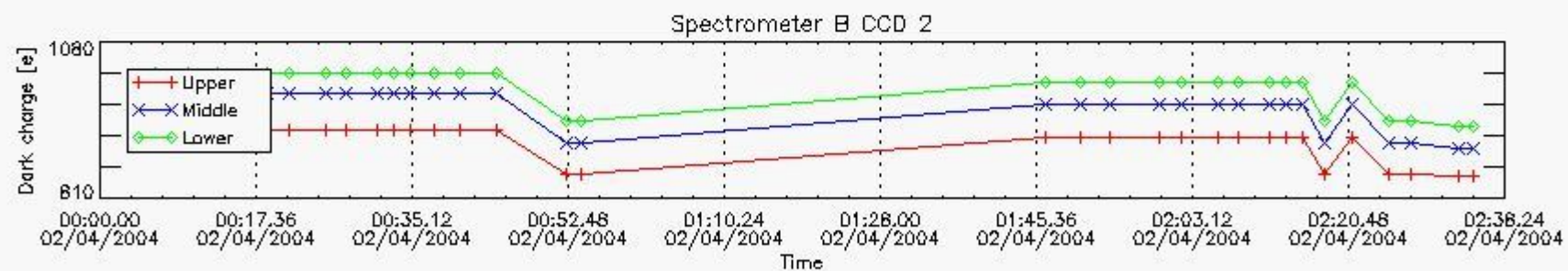
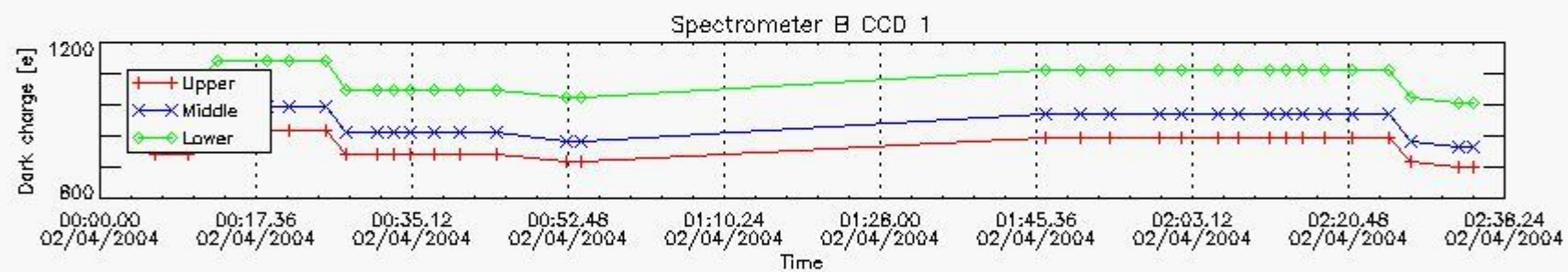
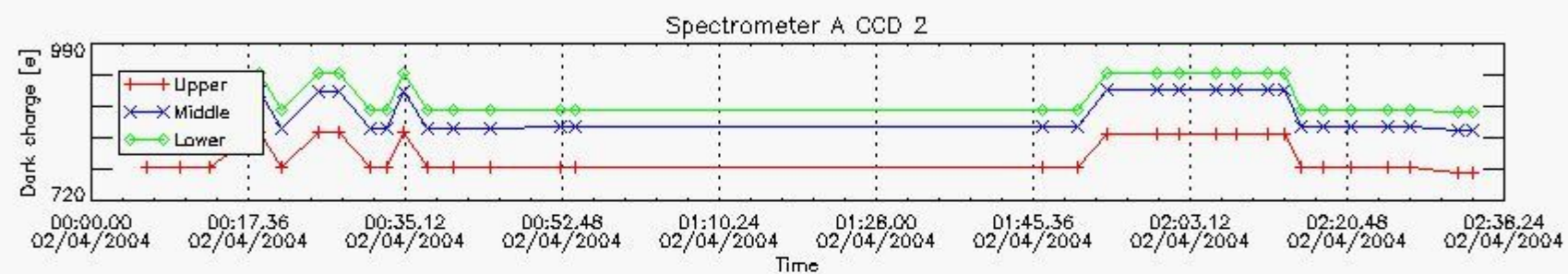
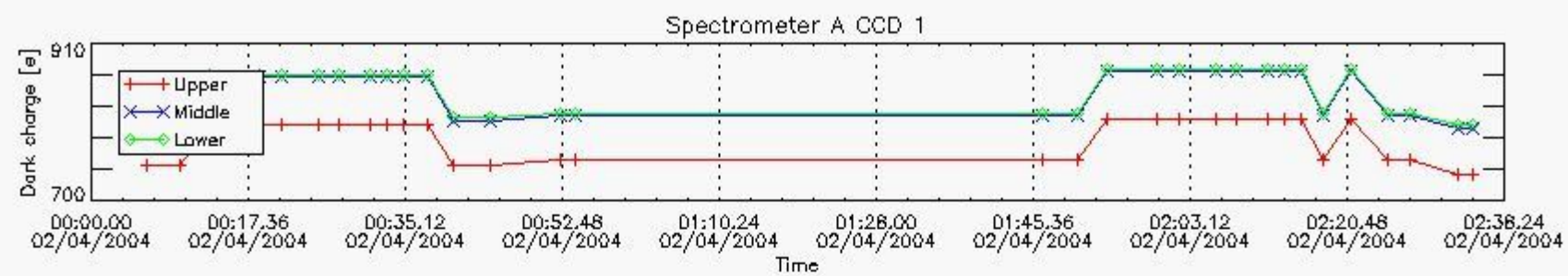
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

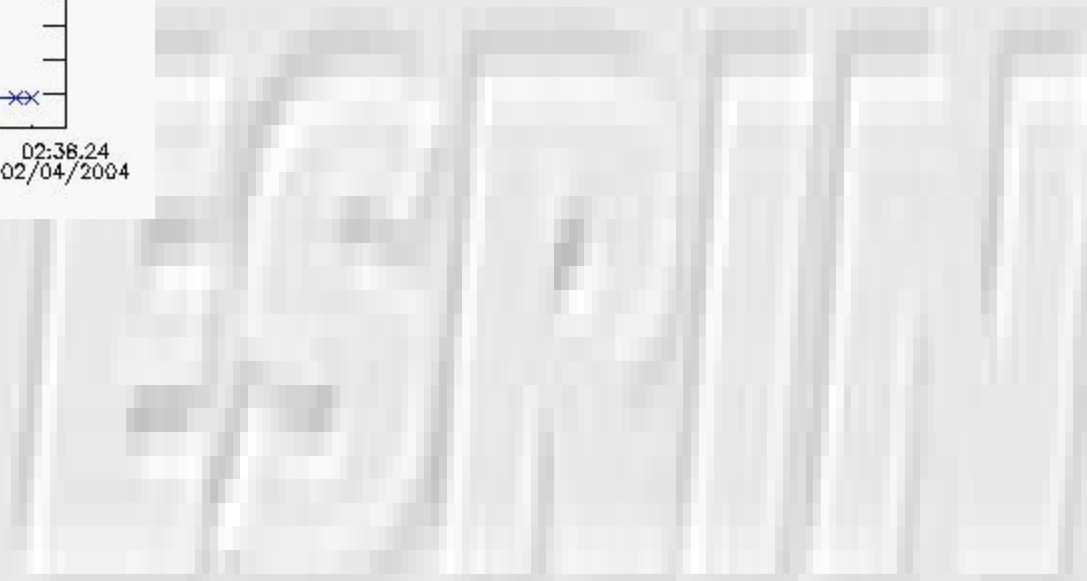




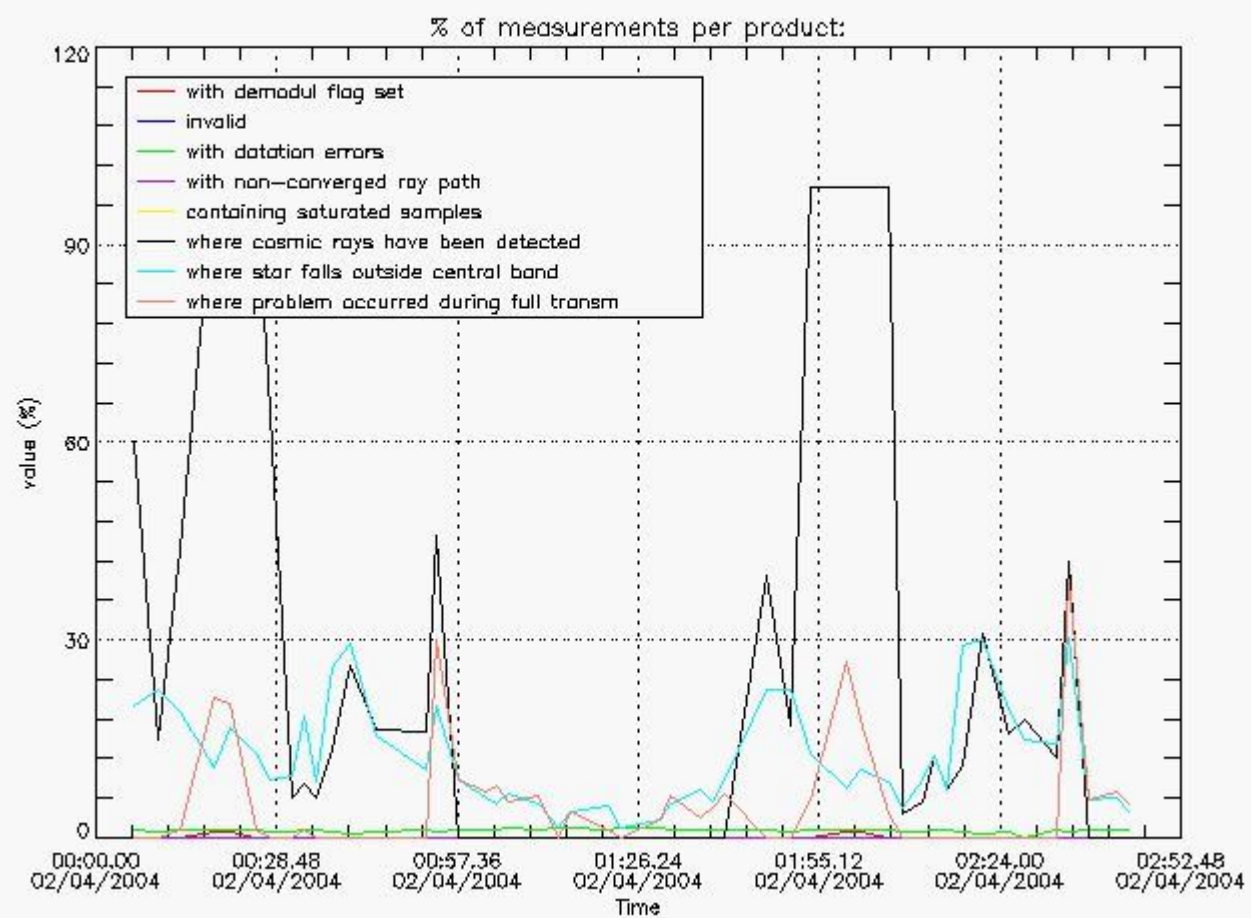
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	20.8333 %
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



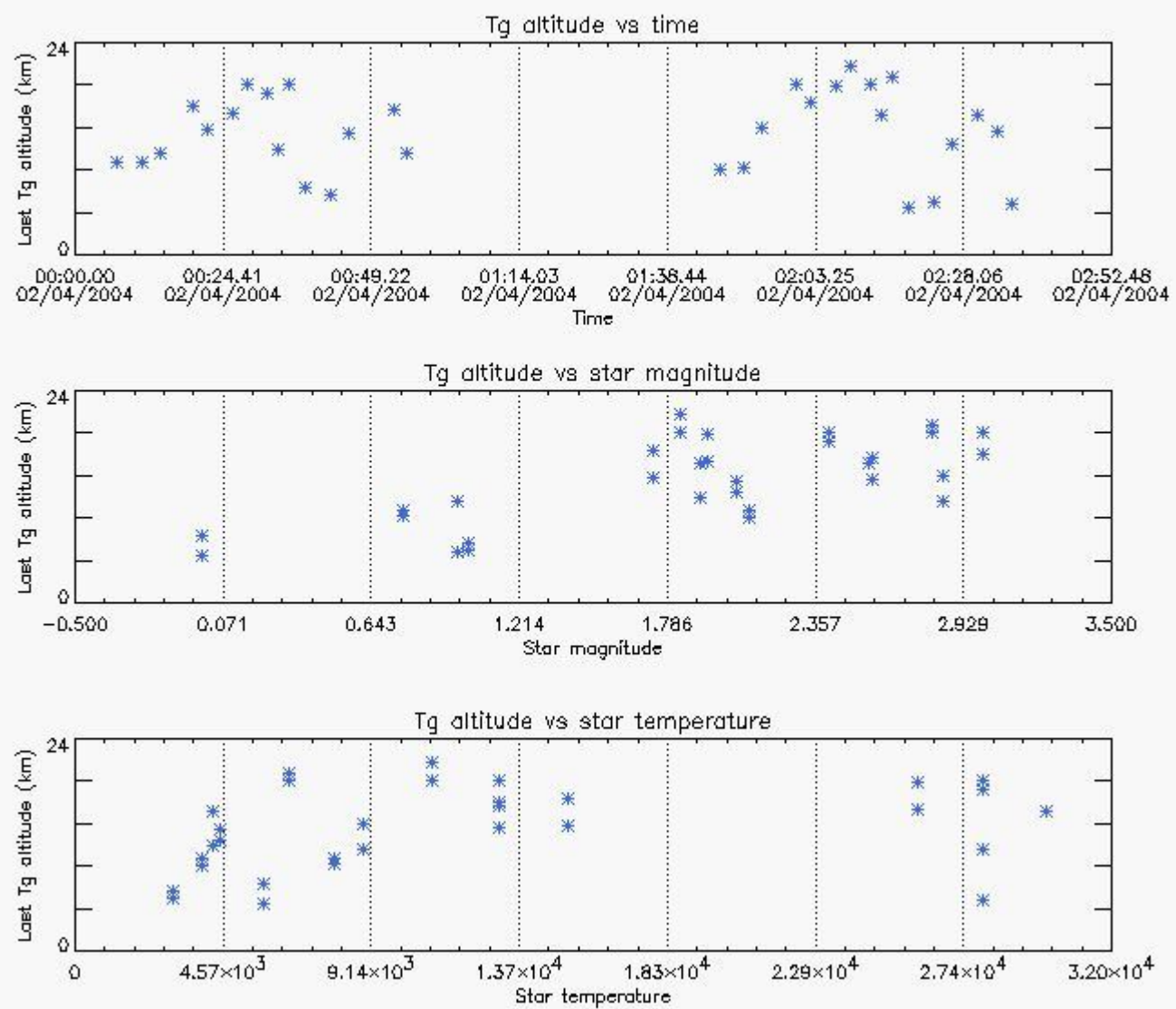
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.854	21.232
St. deviation:	4.6949	2.1039
Maximum:	21.268	24.933
Minimum:	5.3950	17.812
Number of data:	31.000	17.000

### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

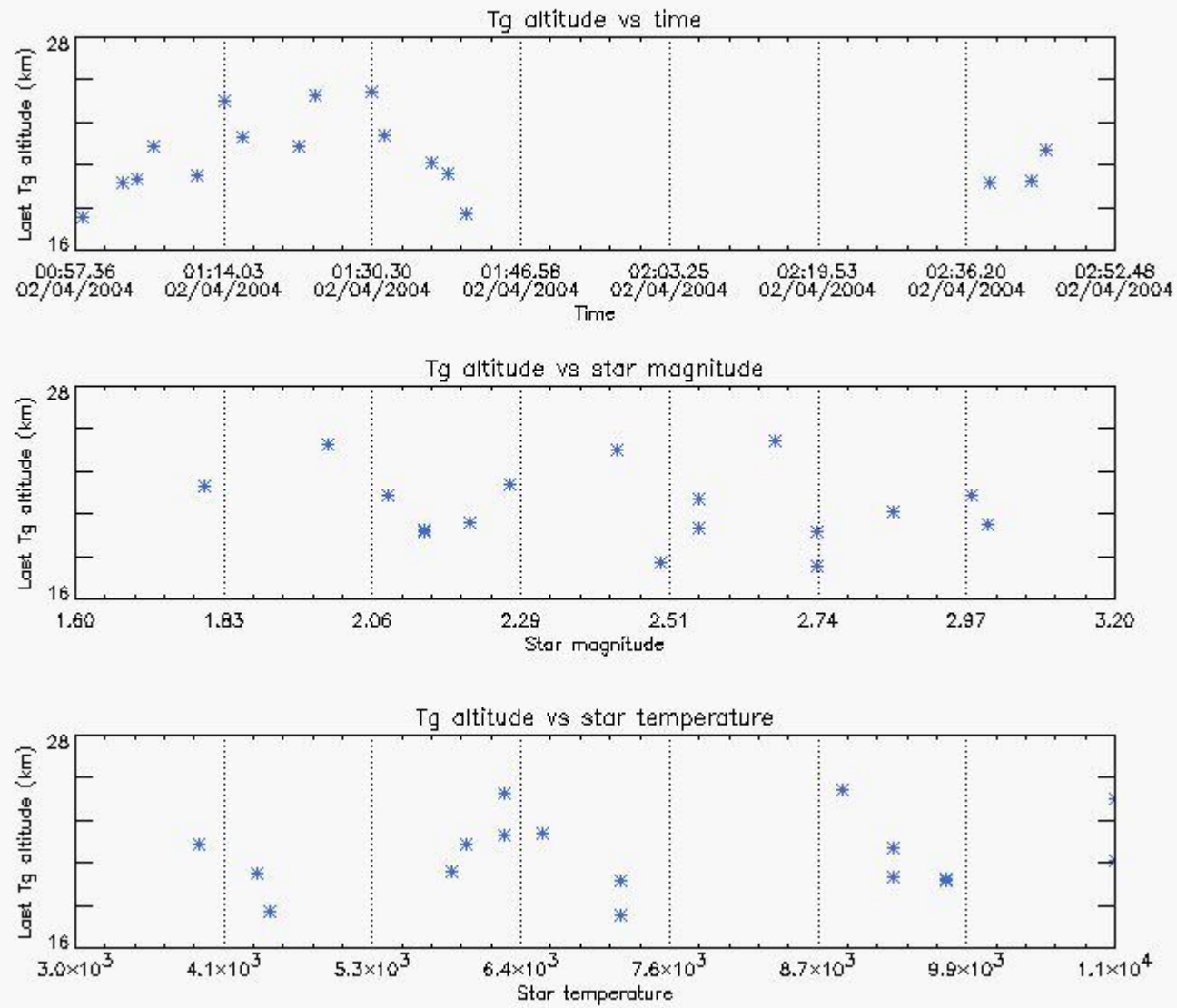


6.3 Plot for BRIGHT limb products





## Tangent altitude at which the star is lost



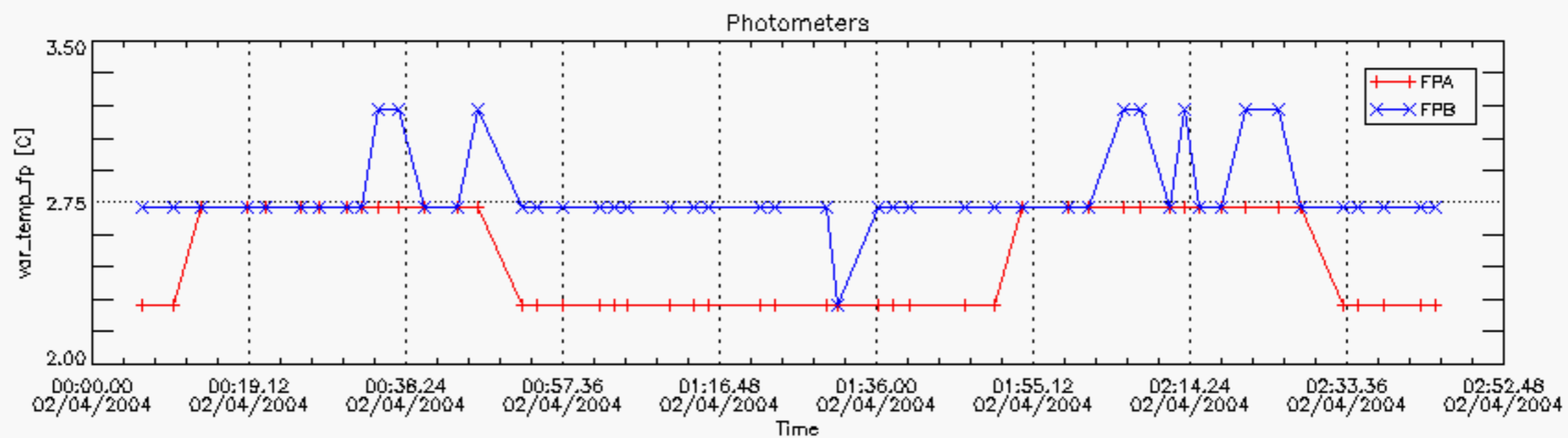
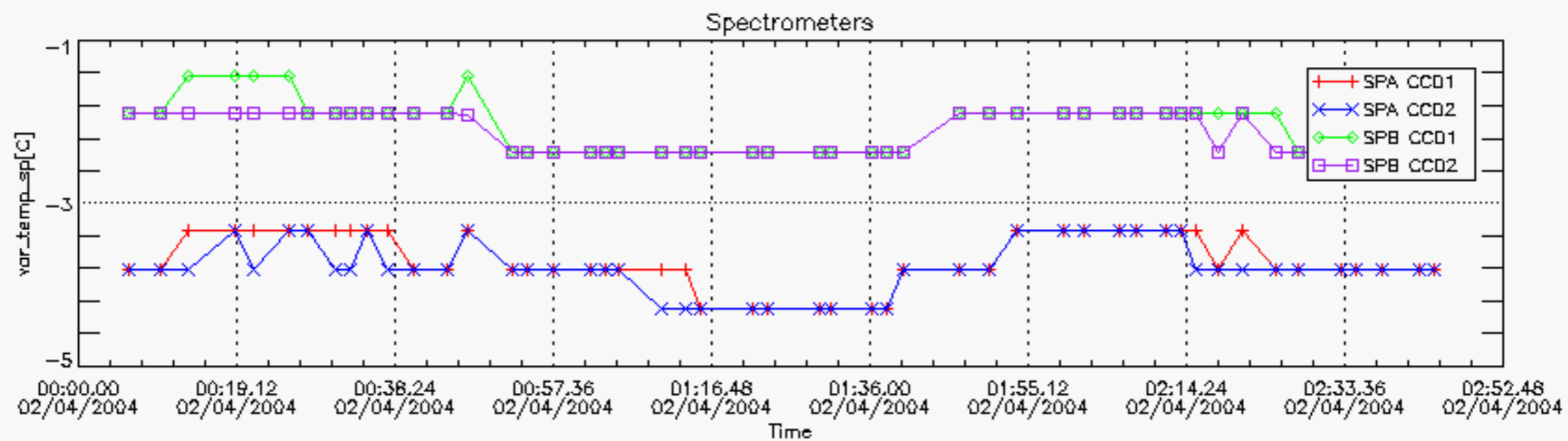
## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

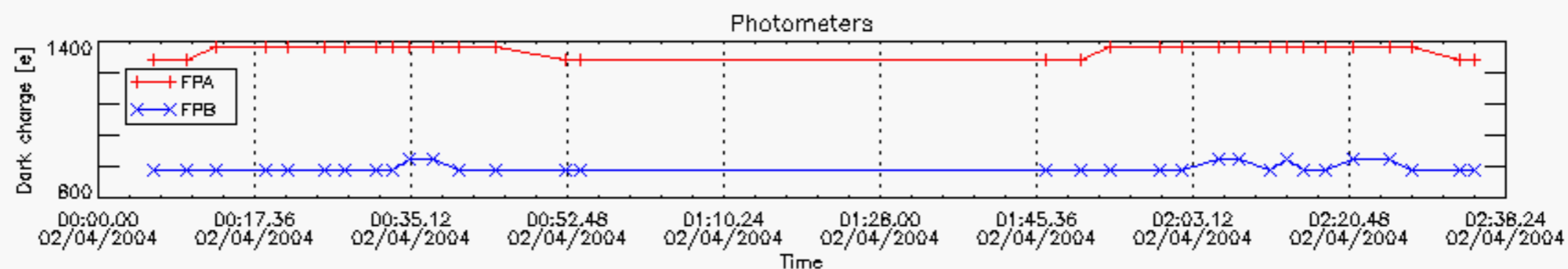
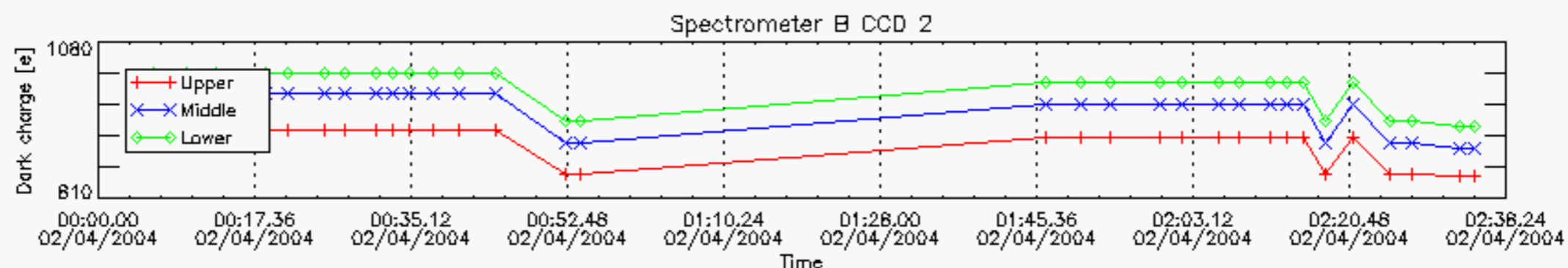
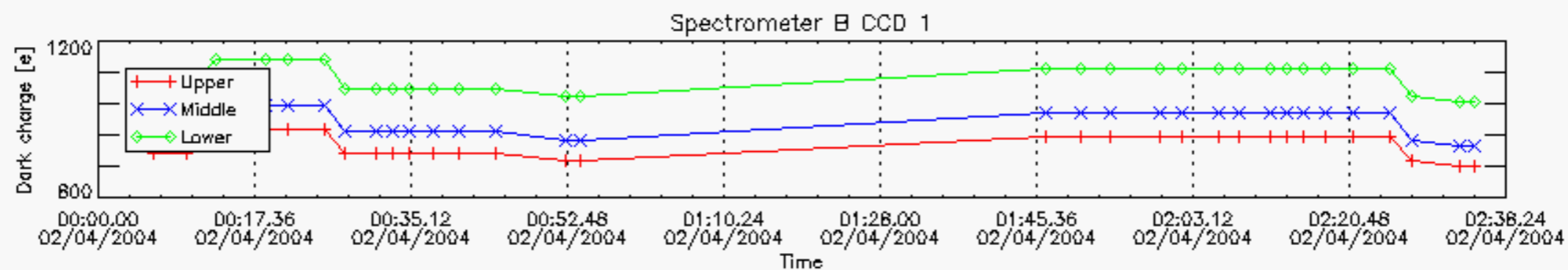
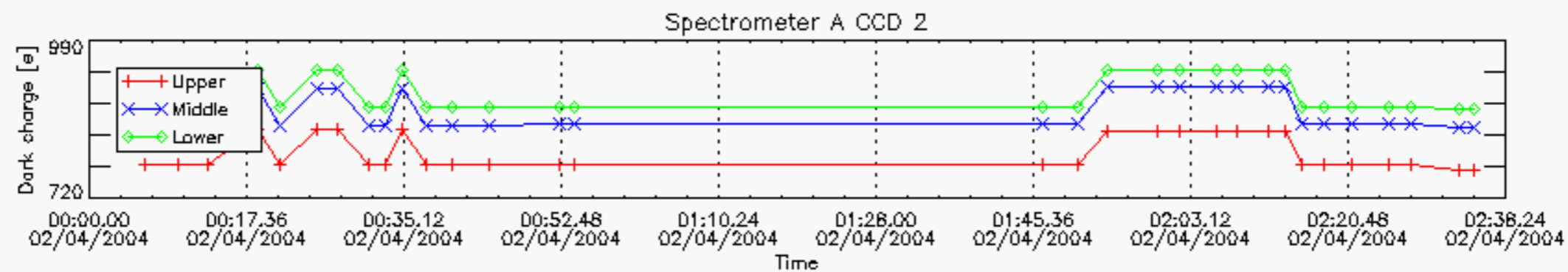
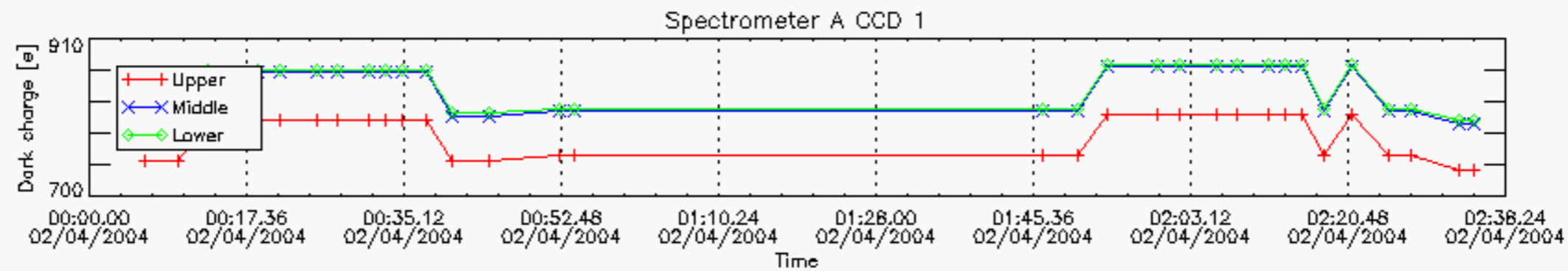
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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	1447.8	1461.0	1447.2
St. deviation:	5.5153	8.1188	7.9637	10.265
Maximum:	1529.0	1614.0	1506.0	1504.0
Minimum:	1449.0	1437.0	1433.0	1409.0
Number of data:	43400.	43400.	19650.	19650.



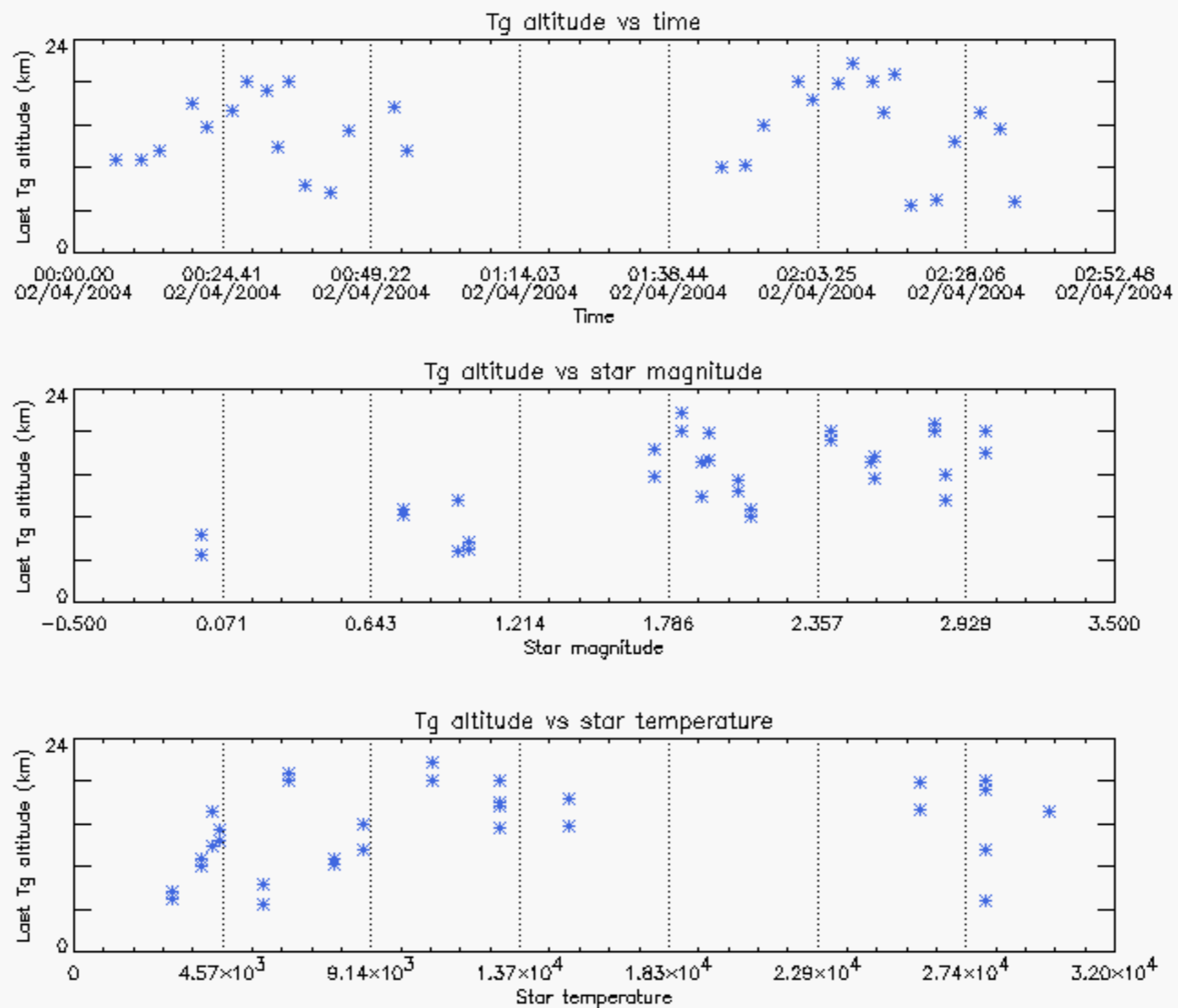






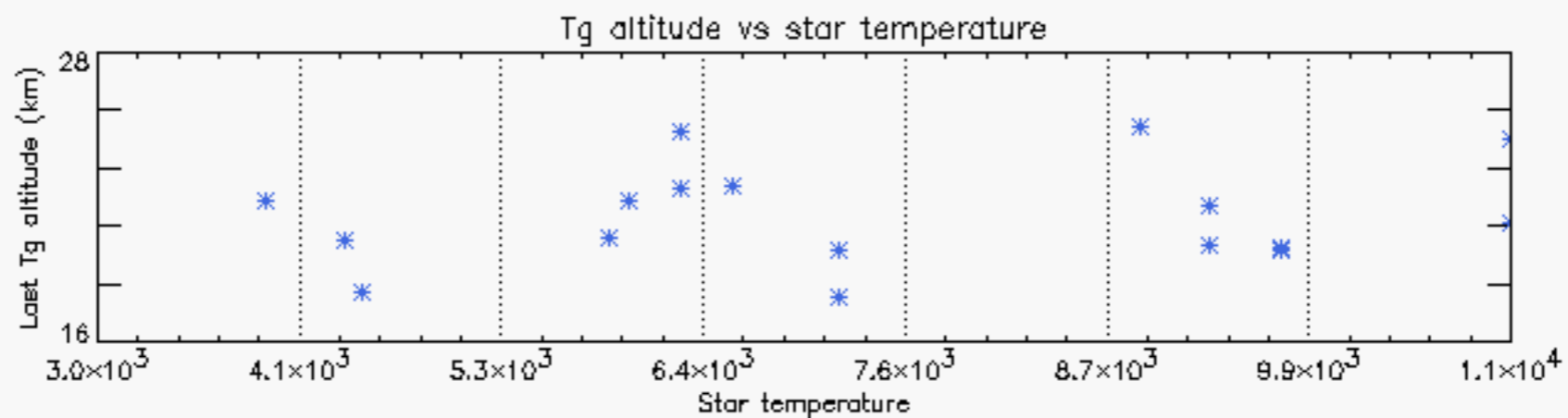
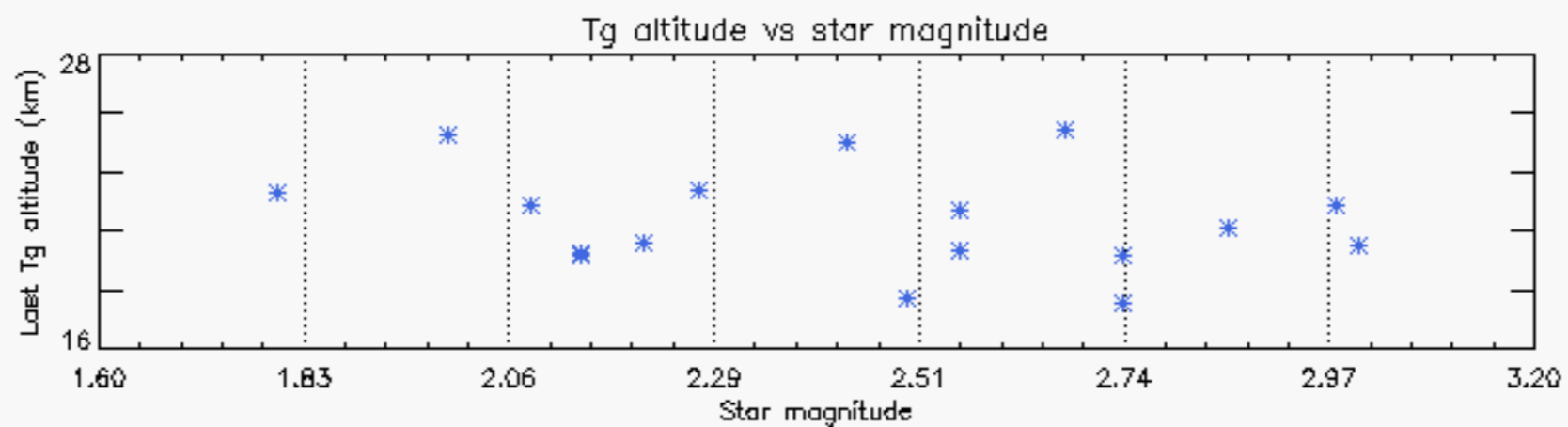
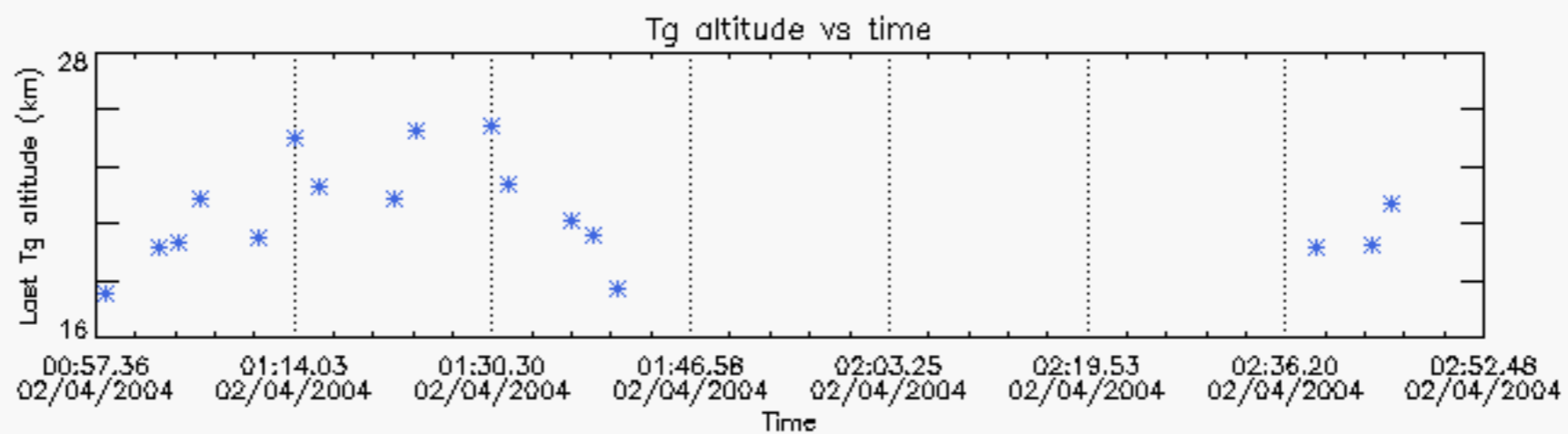


Tangent altitude at which the star is lost





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;	8Bet1	Sco	;	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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1;	-4446.6;	01-APR-2004	03:04:56;	Dark	;	45.0;	163;	7Del Crv	;	2.94;	11000;	occ;	90;	0;	10908
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  
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 32; 1016.7; 01-APR-2004 07:57:12; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;10911  
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