

# GOMOS Daily Report 06-MAR-2004

## SUMMARY

### [1. General Info](#)

### [2. Summary of products arrived in PCF \(Product Control Facility\)](#)

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

[2.2 Level 1 products arrived in PCF during reporting period](#)

### [3. Plot of Spectrometers and Photometers temperatures](#)

### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product](#)

### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

### [7. Statistics on SATU Noise Equivalent Angle](#)

## 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	08MAR2004 07:24:28
Data source version	<Any version>
Start time of products	06-MAR-2004 (06MAR2004 00:00:00)
Stop time of products	07-MAR-2004 (07MAR2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	43
Nb of prods with errors	0

## 2. Summary of products arrived in PCF

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

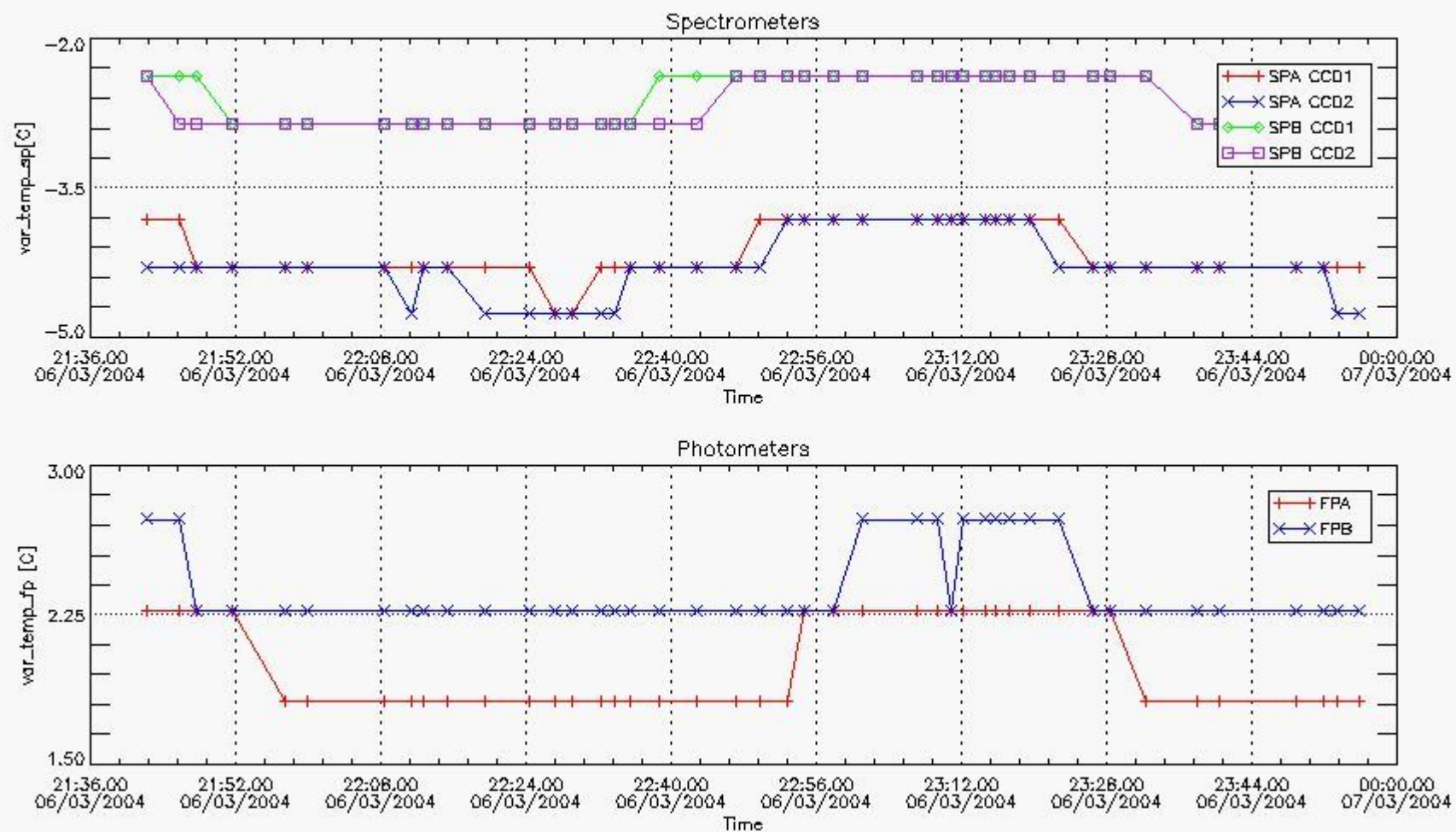
[2.2 Summary of processed GOM\\_TRA\\_1P products.](#)

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_1PNPDE20040306_214213_000000492024_00473_10547_0000.N1	06-MAR-2004 21:42:13	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	10547	No
GOM_TRA_1PNPDE20040306_214549_000000602024_00473_10547_0001.N1	06-MAR-2004 21:45:49	Dark	60.000	171	2Eps Crv	3.0010	4250.0	120	10547	No
GOM_TRA_1PNPDE20040306_214745_000000592024_00473_10547_0002.N1	06-MAR-2004 21:47:45	Dark	58.500	100	4Gam Crv	2.5800	13100.	117	10547	No
GOM_TRA_1PNPDE20040306_215139_000000472024_00473_10547_0003.N1	06-MAR-2004 21:51:39	Dark	46.500	48	30Alp Hya	1.9770	4100.0	93	10547	No
GOM_TRA_1PNPDE20040306_215726_000000452024_00473_10547_0004.N1	06-MAR-2004 21:57:26	Bright	44.500	22	32Alp Leo	1.3600	15200.	89	10547	No
GOM_TRA_1PNPDE20040306_215955_000000432024_00473_10547_0005.N1	06-MAR-2004 21:59:55	Bright	43.000	51	41Gam1Leo	2.0100	4500.0	86	10547	No
GOM_TRA_1PNPDE20040306_220820_000000442024_00473_10547_0006.N1	06-MAR-2004 22:08:20	Bright	43.500	174	52Psi UMa	3.0040	4400.0	87	10547	No
GOM_TRA_1PNPDE20040306_221119_000000412024_00473_10547_0007.N1	06-MAR-2004 22:11:19	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	10547	No
GOM_TRA_1PNPDE20040306_221244_000000442024_00473_10547_0008.N1	06-MAR-2004 22:12:44	Bright	43.500	36	50Alp UMa	1.8000	6300.0	87	10547	No
GOM_TRA_1PNPDE20040306_221518_000000492024_00473_10547_0009.N1	06-MAR-2004 22:15:18	Bright	49.000	32	77Eps UMa	1.7630	11000.	98	10547	No
GOM_TRA_1PNPDE20040306_221927_000000372024_00473_10547_0010.N1	06-MAR-2004 22:19:27	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	10547	No
GOM_TRA_1PNPDE20040306_222427_000000492024_00473_10547_0011.N1	06-MAR-2004 22:24:27	Bright	48.500	119	14Eta Dra	2.7270	4700.0	97	10547	No
GOM_TRA_1PNPDE20040306_222708_000000392024_00473_10547_0012.N1	06-MAR-2004 22:27:08	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	10547	No
GOM_TRA_1PNPDE20040306_222907_000000512024_00473_10547_0013.N1	06-MAR-2004 22:29:07	Bright	50.500	130	23Bet Dra	2.7990	5800.0	101	10547	No
GOM_TRA_1PNPDE20040306_223212_000000382024_00473_10547_0014.N1	06-MAR-2004 22:32:12	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	10547	No
GOM_TRA_1PNPDE20040306_223348_000000402024_00473_10547_0015.N1	06-MAR-2004 22:33:48	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	10547	No
GOM_TRA_1PNPDE20040306_223524_000000372024_00473_10547_0016.N1	06-MAR-2004 22:35:24	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	10547	No
GOM_TRA_1PNPDE20040306_223837_000001092024_00473_10547_0017.N1	06-MAR-2004 22:38:37	Dark	109.00	133	40Zet Her	2.8070	6000.0	218	10547	No
GOM_TRA_1PNPDE20040306_224244_000000502024_00473_10547_0018.N1	06-MAR-2004 22:42:44	Dark	49.500	168	17Zet Aql	2.9860	11000.	99	10547	No
GOM_TRA_1PNPDE20040306_224705_000000852024_00473_10547_0019.N1	06-MAR-2004 22:47:05	Dark	85.000	59	55Alp Oph	2.0800	8900.0	170	10547	No
GOM_TRA_1PNPDE20040306_224946_000000772024_00473_10547_0020.N1	06-MAR-2004 22:49:46	Dark	76.500	126	60Bet Oph	2.7700	4250.0	153	10547	No
GOM_TRA_1PNPDE20040306_225246_000000472024_00473_10547_0021.N1	06-MAR-2004 22:52:46	Dark	47.000	155	41Pi Sgr	2.9000	6600.0	94	10547	No
GOM_TRA_1PNPDE20040306_225441_000000452024_00473_10547_0022.N1	06-MAR-2004 22:54:41	Dark	45.000	57	34Sig Sgr	2.0660	26000.	90	10547	No
GOM_TRA_1PNPDE20040306_225757_000000472024_00473_10547_0023.N1	06-MAR-2004 22:57:57	Dark	47.000	38	20Eps Sgr	1.8360	11000.	94	10547	No
GOM_TRA_1PNPDE20040306_230107_000000482024_00473_10547_0024.N1	06-MAR-2004 23:01:07	Dark	47.500	25	35Lam Sco	1.6200	28000.	95	10547	No
GOM_TRA_1PNPDE20040306_230710_000000522024_00474_10548_0025.N1	06-MAR-2004 23:07:10	Dark	51.500	43	Alp TrA	1.9100	4250.0	103	10548	No
GOM_TRA_1PNPDE20040306_230924_000000402024_00474_10548_0026.N1	06-MAR-2004 23:09:24	Dark	39.500	145	Gam TrA	2.8720	10600.	79	10548	No
GOM_TRA_1PNPDE20040306_231057_000000552024_00474_10548_0027.N1	06-MAR-2004 23:10:57	Dark	54.500	4	Alp1Cen	-0.010000	5800.0	109	10548	No
GOM_TRA_1PNPDE20040306_231214_000000532024_00474_10548_0028.N1	06-MAR-2004 23:12:14	Dark	53.000	10	Bet Cen	0.610000	28000.	106	10548	No
GOM_TRA_1PNPDE20040306_231434_000000402024_00474_10548_0029.N1	06-MAR-2004 23:14:34	Dark	39.500	12	Alp1Cru	0.775000	30000.	79	10548	No
GOM_TRA_1PNPDE20040306_231545_000000412024_00474_10548_0030.N1	06-MAR-2004 23:15:45	Dark	40.500	129	Del Cru	2.7930	26000.	81	10548	No
GOM_TRA_1PNPDE20040306_231714_000000522024_00474_10548_0031.N1	06-MAR-2004 23:17:14	Dark	52.000	64	Gam Cen	2.2000	10600.	104	10548	No
GOM_TRA_1PNPDE20040306_231930_000000402024_00474_10548_0032.N1	06-MAR-2004 23:19:30	Dark	39.500	91	Kap Vel	2.4900	26000.	79	10548	No
GOM_TRA_1PNPDE20040306_232249_000000452024_00474_10548_0000.N1	06-MAR-2004 23:22:49	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	10548	No
GOM_TRA_1PNPDE20040306_232626_000000612024_00474_10548_0001.N1	06-MAR-2004 23:26:26	Dark	60.500	171	2Eps Crv	3.0010	4250.0	121	10548	No
GOM_TRA_1PNPDE20040306_232822_000000612024_00474_10548_0002.N1	06-MAR-2004 23:28:22	Dark	60.500	100	4Gam Crv	2.5800	13100.	121	10548	No
GOM_TRA_1PNPDE20040306_233215_000000462024_00474_10548_0003.N1	06-MAR-2004 23:32:15	Dark	45.500	48	30Alp Hya	1.9770	4100.0	91	10548	No
GOM_TRA_1PNPDE20040306_233802_000000442024_00474_10548_0004.N1	06-MAR-2004 23:38:02	Bright	44.000	22	32Alp Leo	1.3600	15200.	88	10548	No
GOM_TRA_1PNPDE20040306_234030_000000442024_00474_10548_0005.N1	06-MAR-2004 23:40:30	Bright	44.000	51	41Gam1Leo	2.0100	4500.0	88	10548	No
GOM_TRA_1PNPDE20040306_234856_000000452024_00474_10548_0006.N1	06-MAR-2004 23:48:56	Bright	44.500	174	52Psi UMa	3.0040	4400.0	89	10548	No
GOM_TRA_1PNPDE20040306_235154_000000402024_00474_10548_0007.N1	06-MAR-2004 23:51:54	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	10548	No
GOM_TRA_1PNPDE20040306_235319_000000432024_00474_10548_0008.N1	06-MAR-2004 23:53:19	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	10548	No
GOM_TRA_1PNPDE20040306_235553_000000462024_00474_10548_0009.N1	06-MAR-2004 23:55:53	Bright	45.500	32	77Eps UMa	1.7630	11000.	91	10548	No

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





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

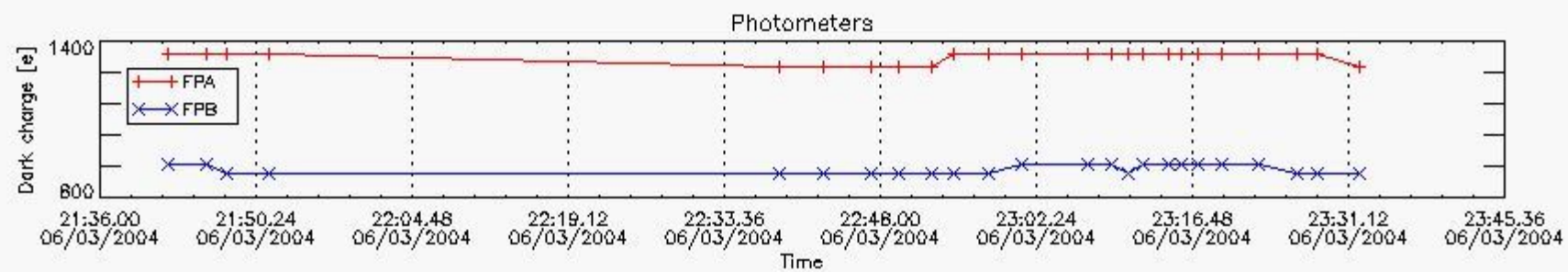
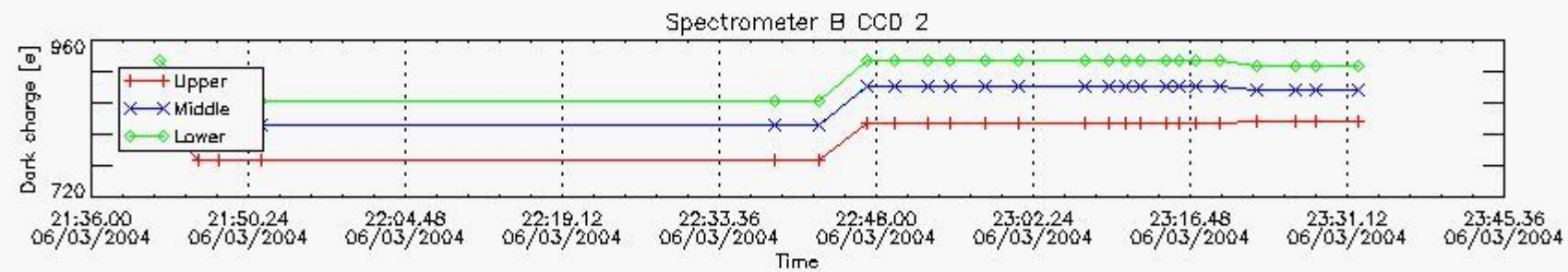
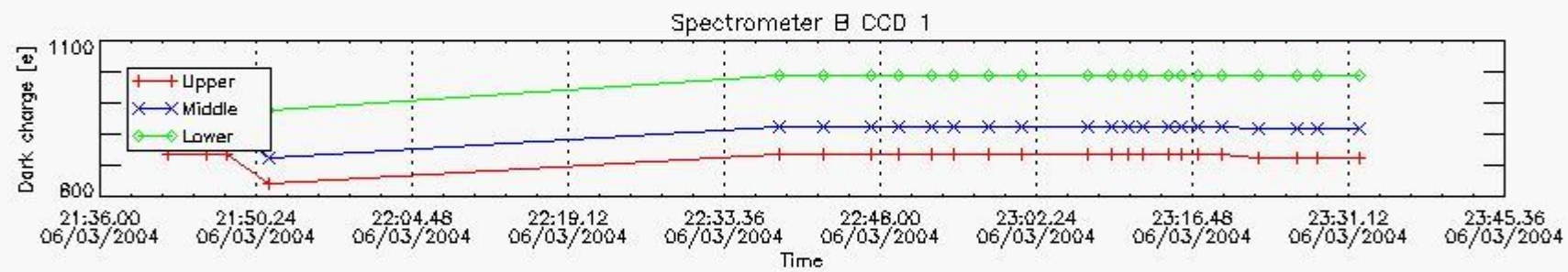
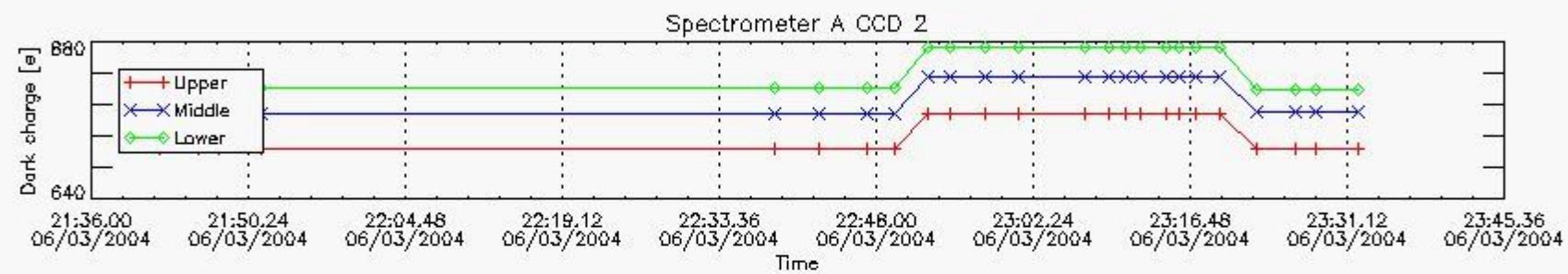
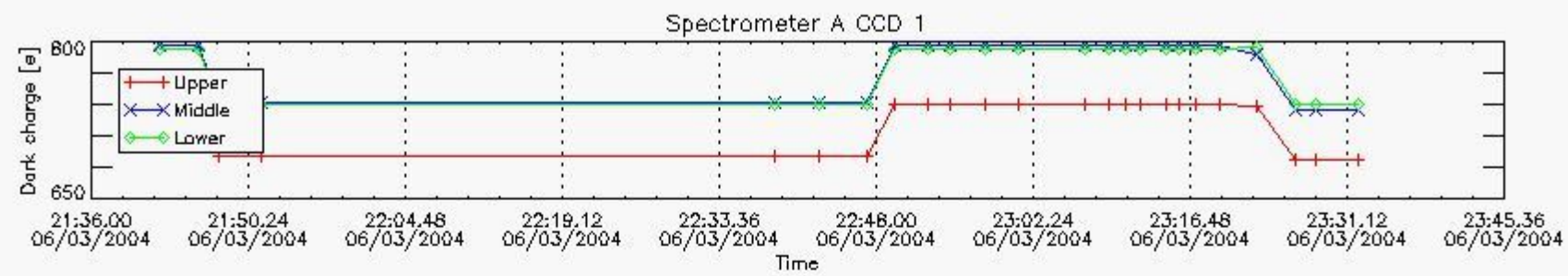
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

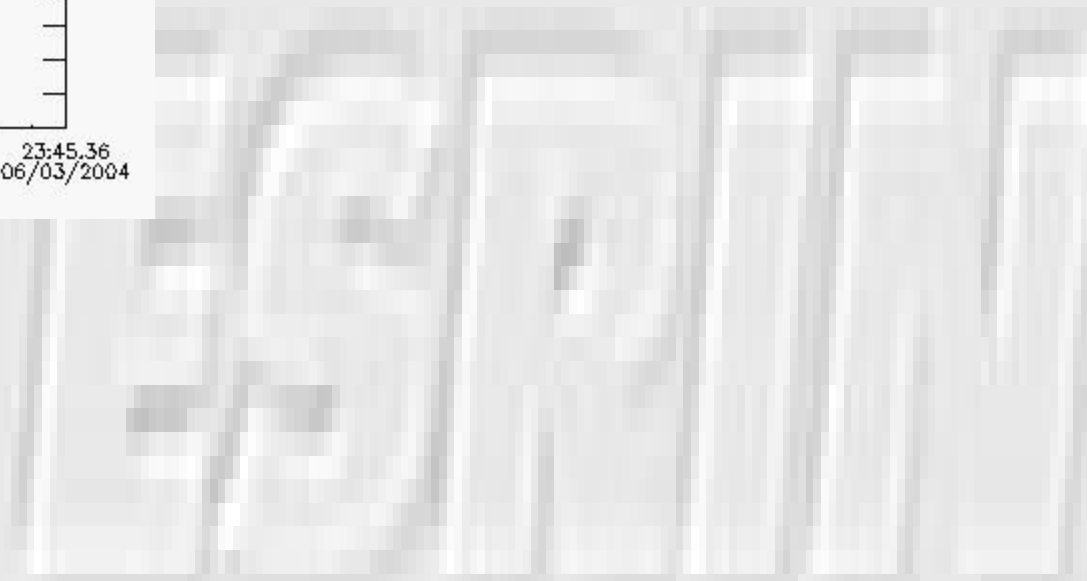




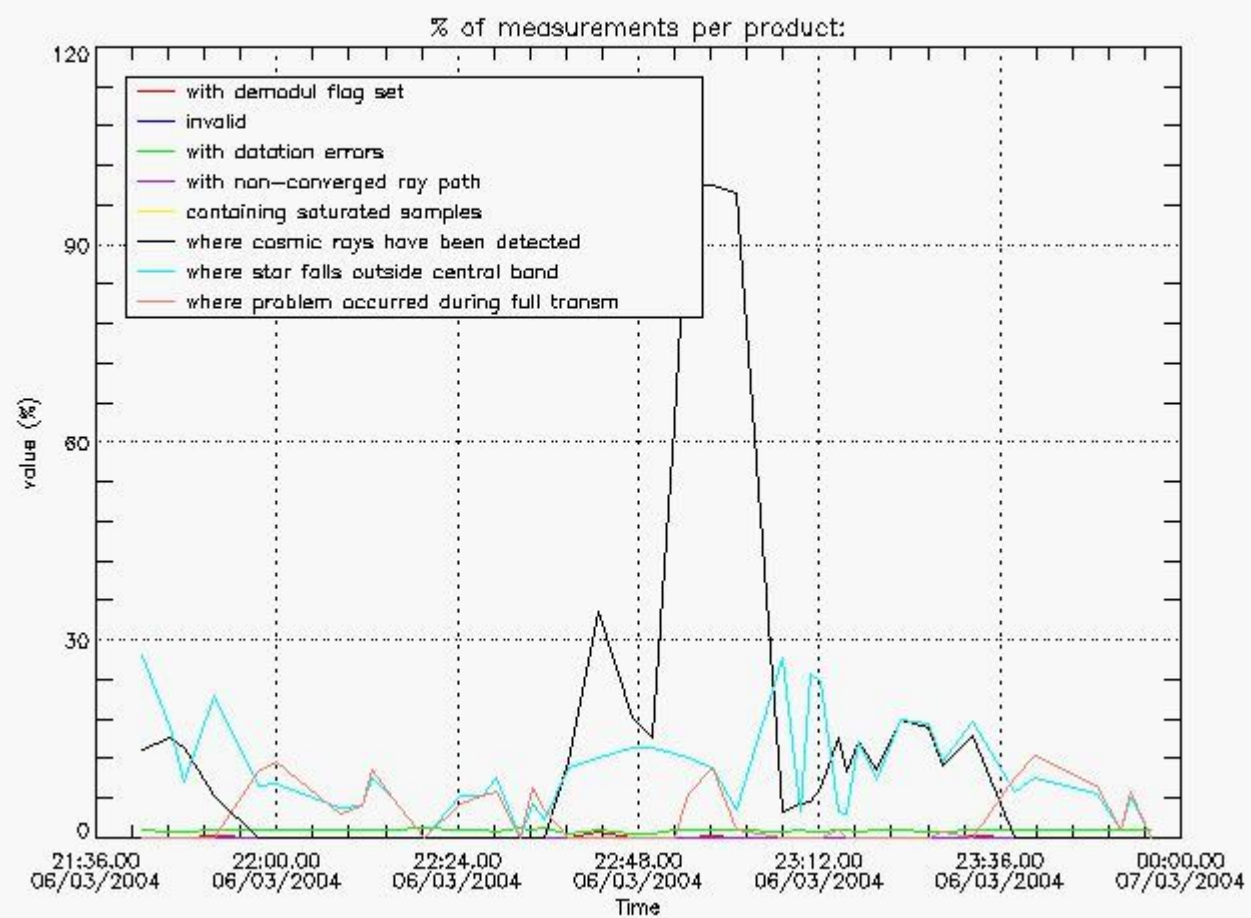
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	18.6047 %
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



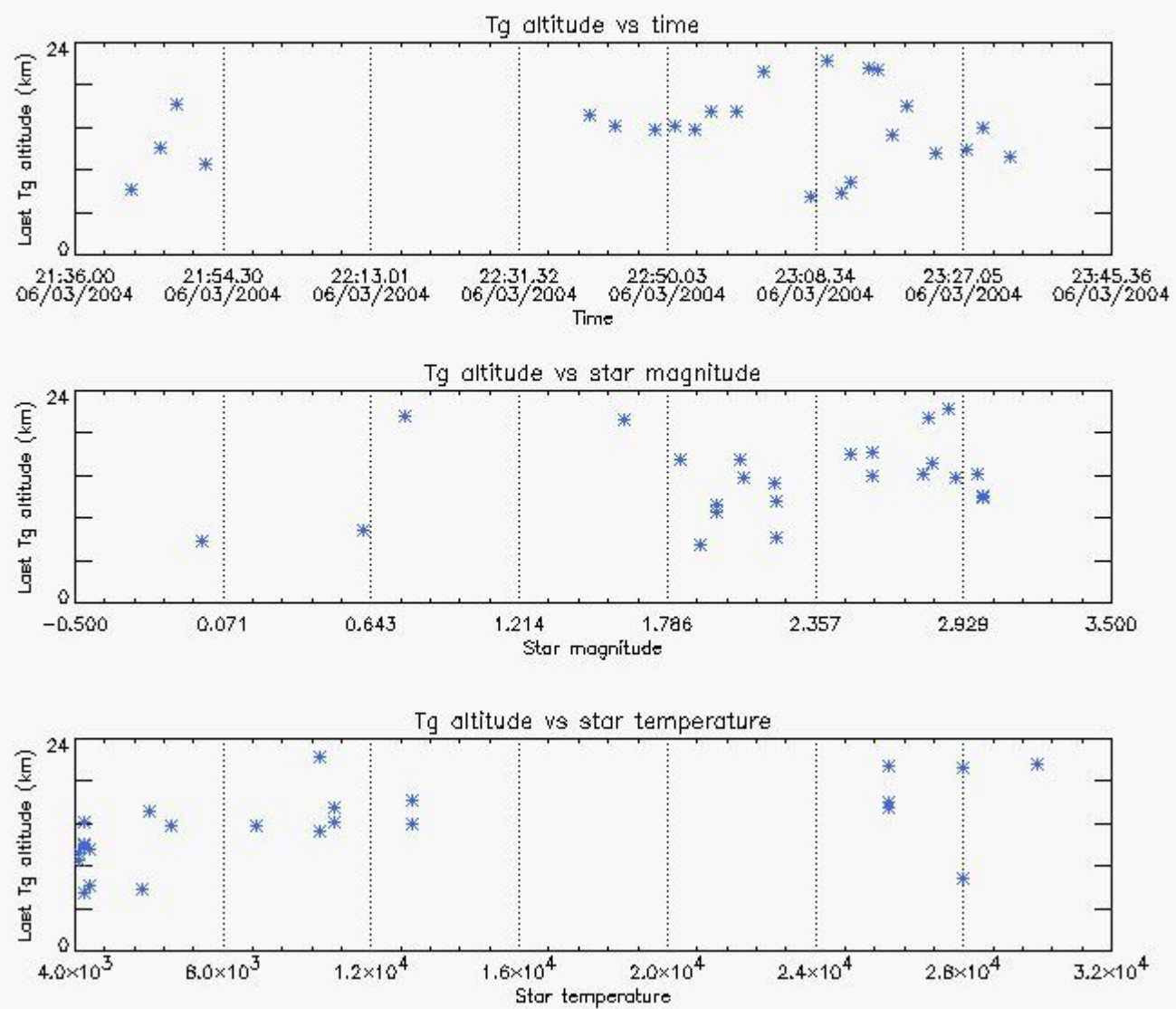
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.103	21.229
St. deviation:	4.4676	3.8396
Maximum:	22.008	30.222
Minimum:	6.5811	16.357
Number of data:	24.000	19.000

### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

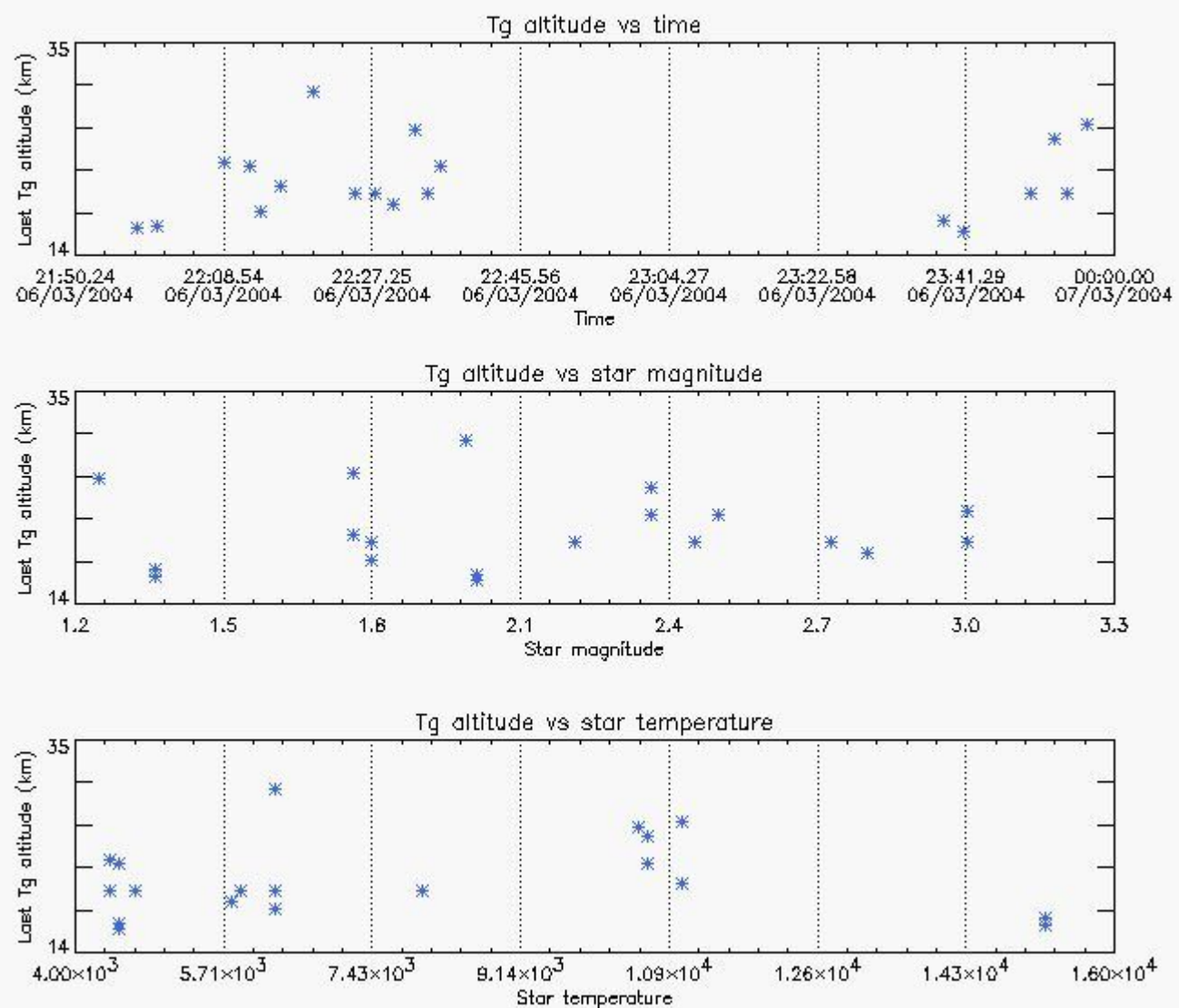


6.3 Plot for BRIGHT limb products





### 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

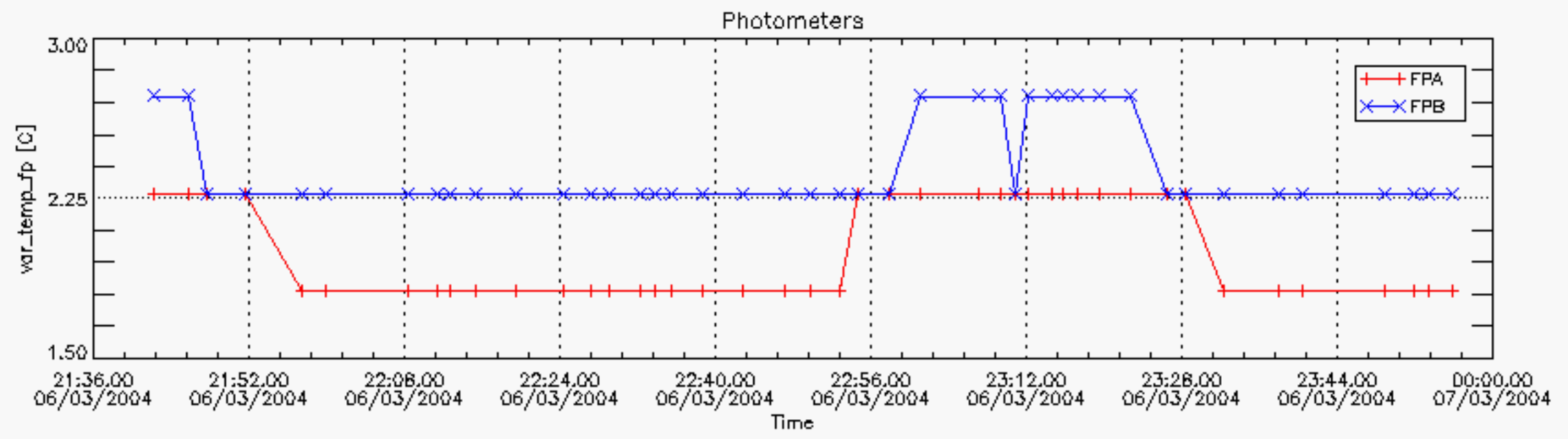
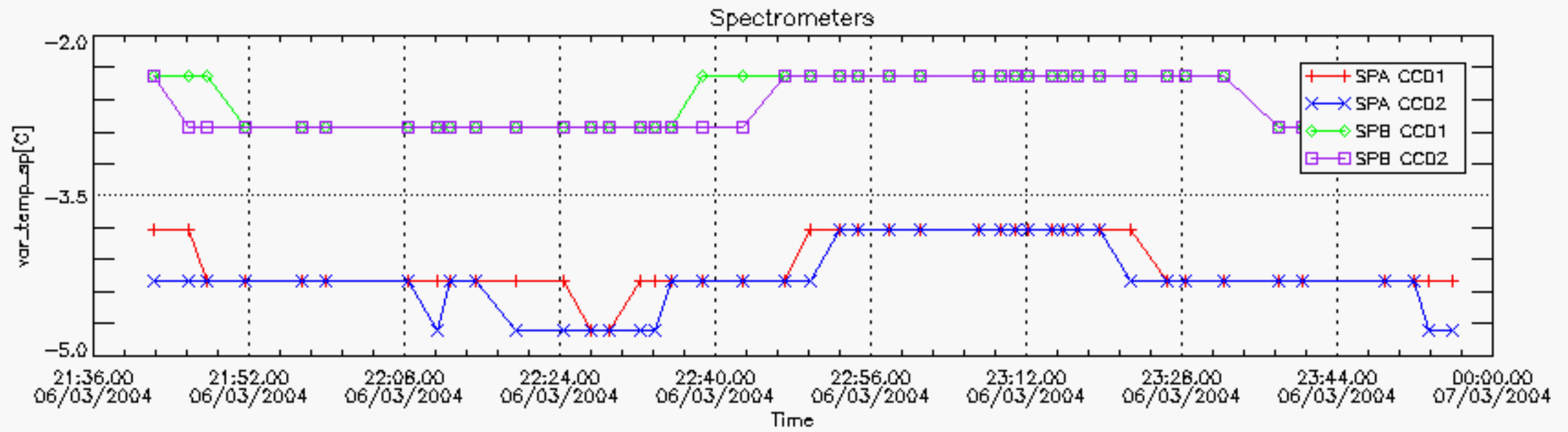
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

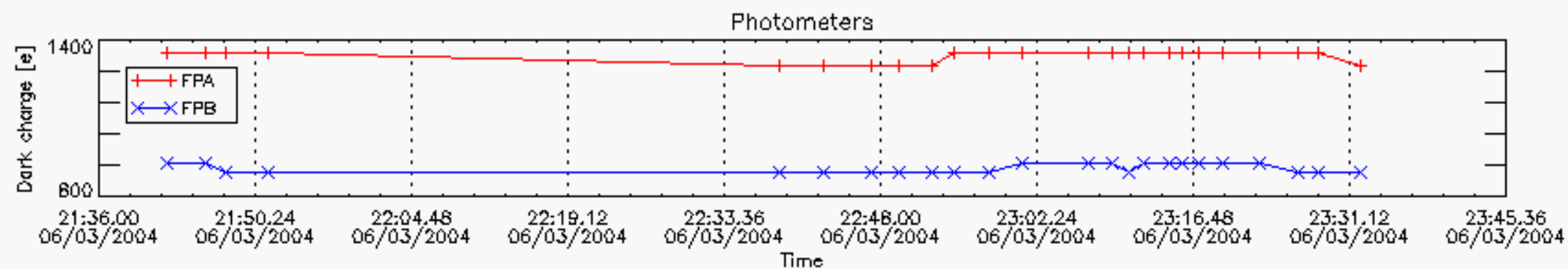
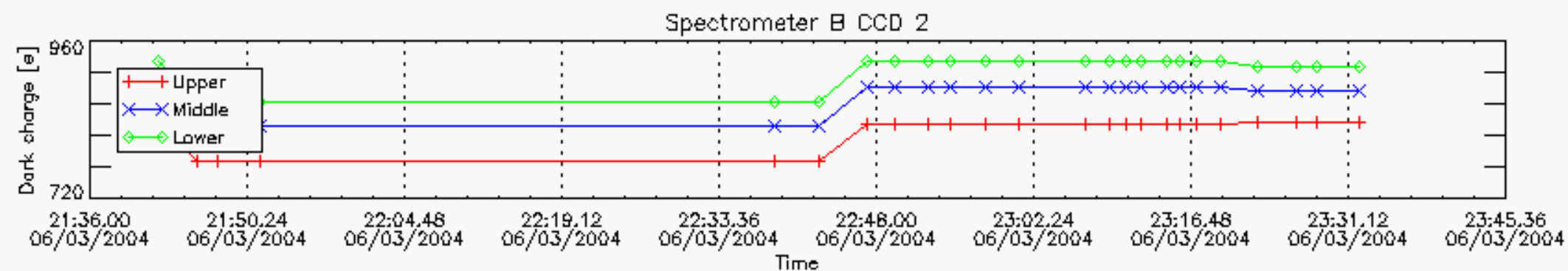
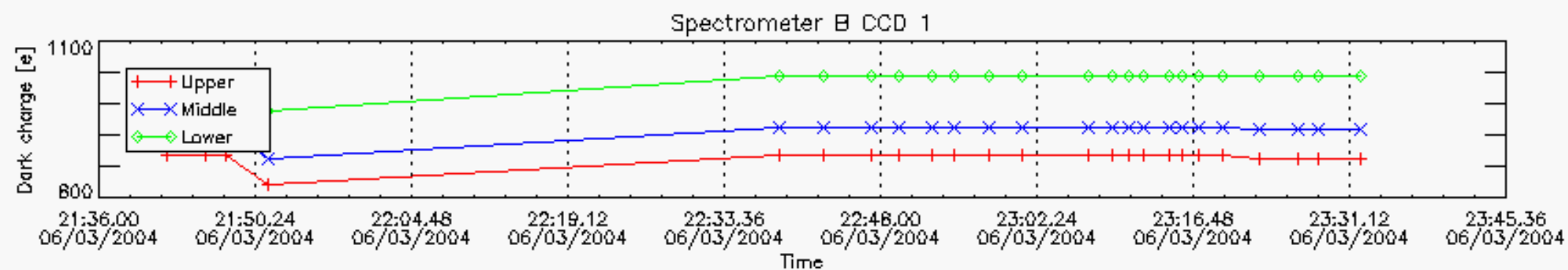
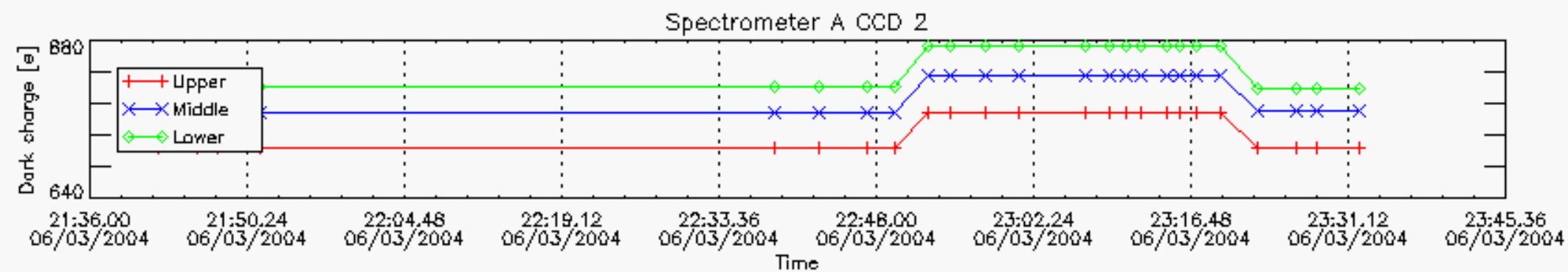
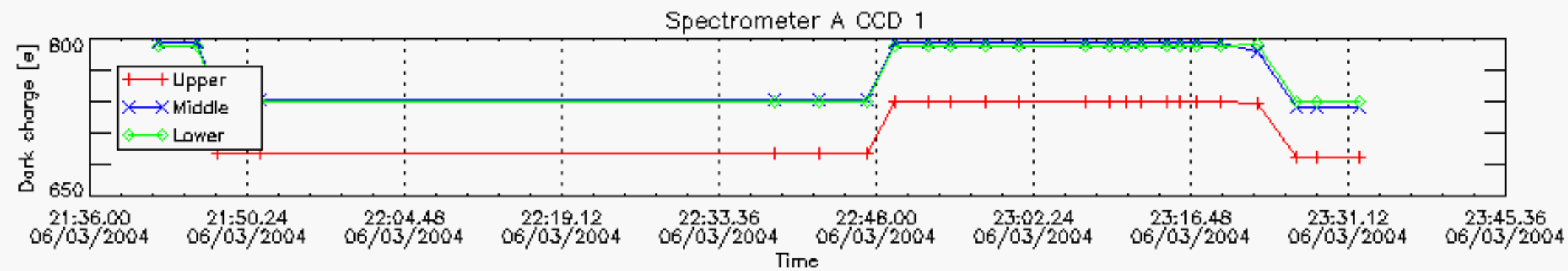
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1448.1	1462.1	1447.4
St. deviation:	5.5964	6.2473	5.9600	6.7486
Maximum:	1502.0	1488.0	1494.0	1480.0
Minimum:	1453.0	1439.0	1444.0	1432.0
Number of data:	32100.	32100.	22600.	22600.





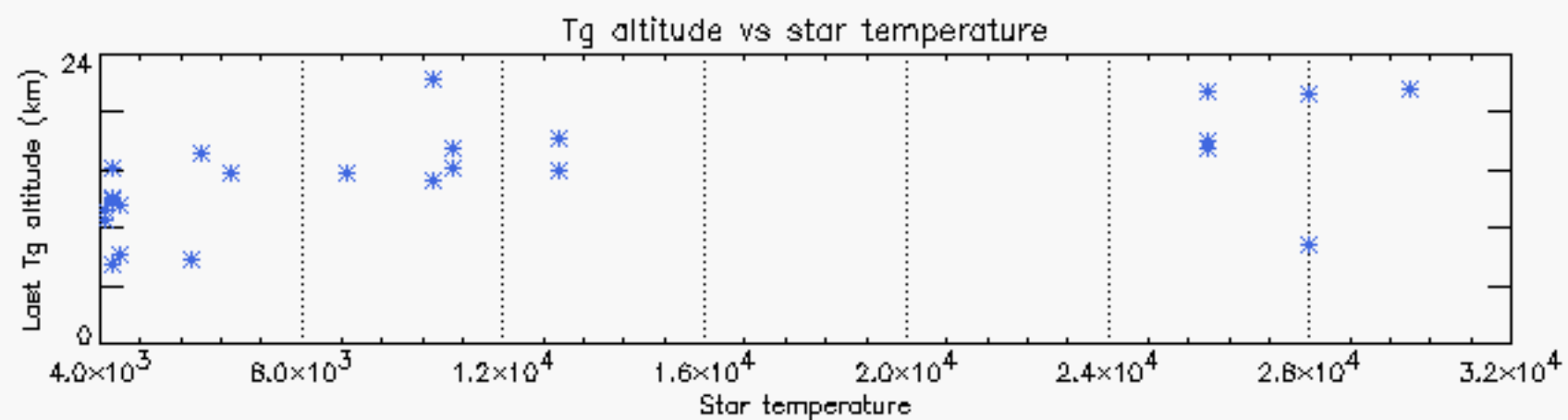
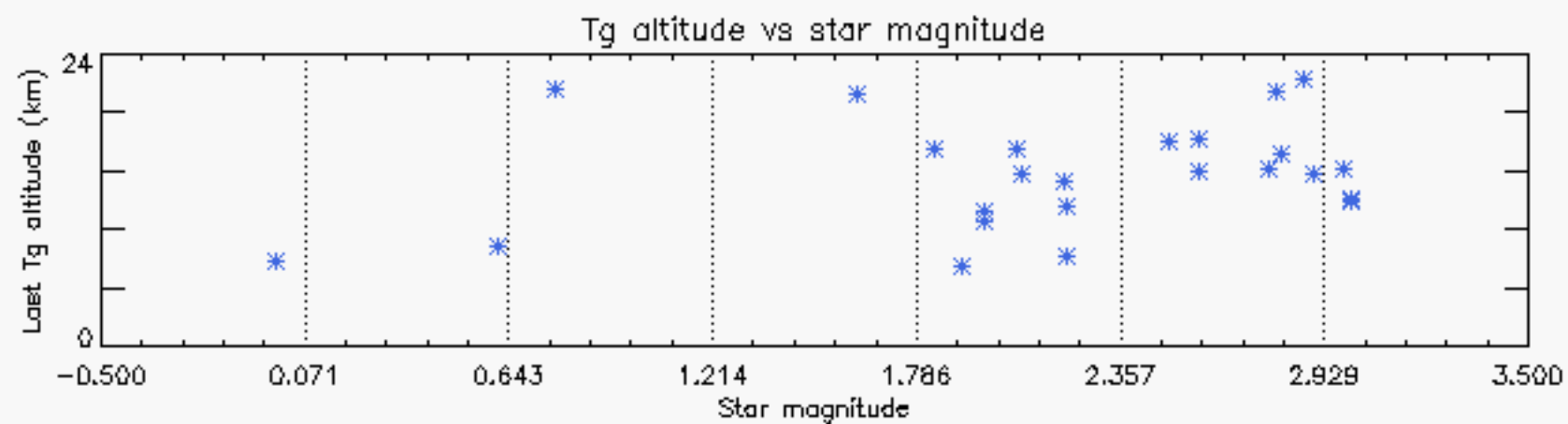
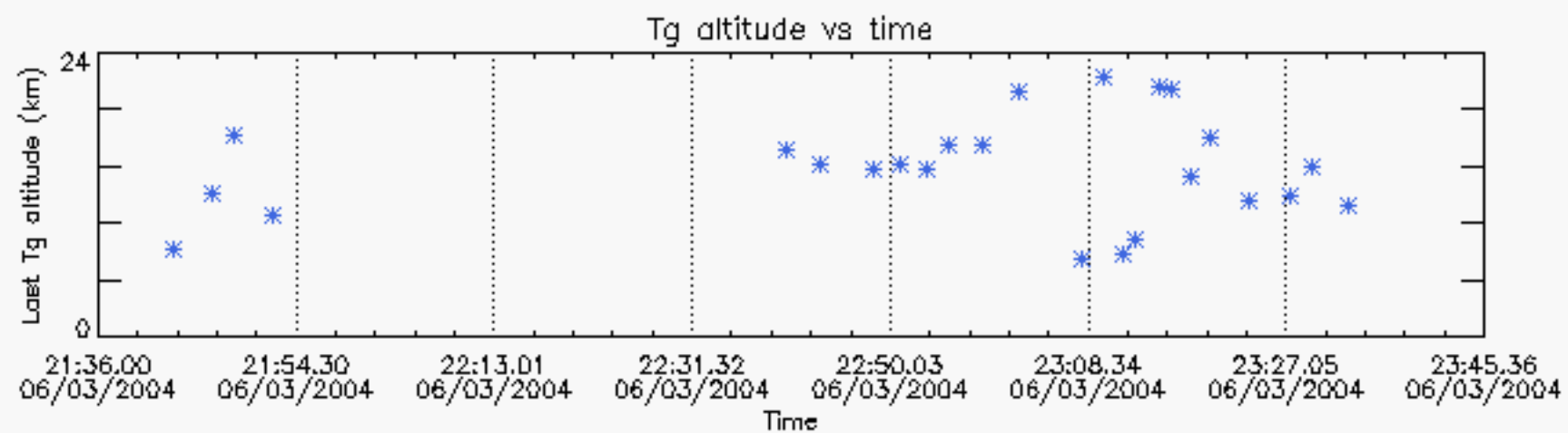






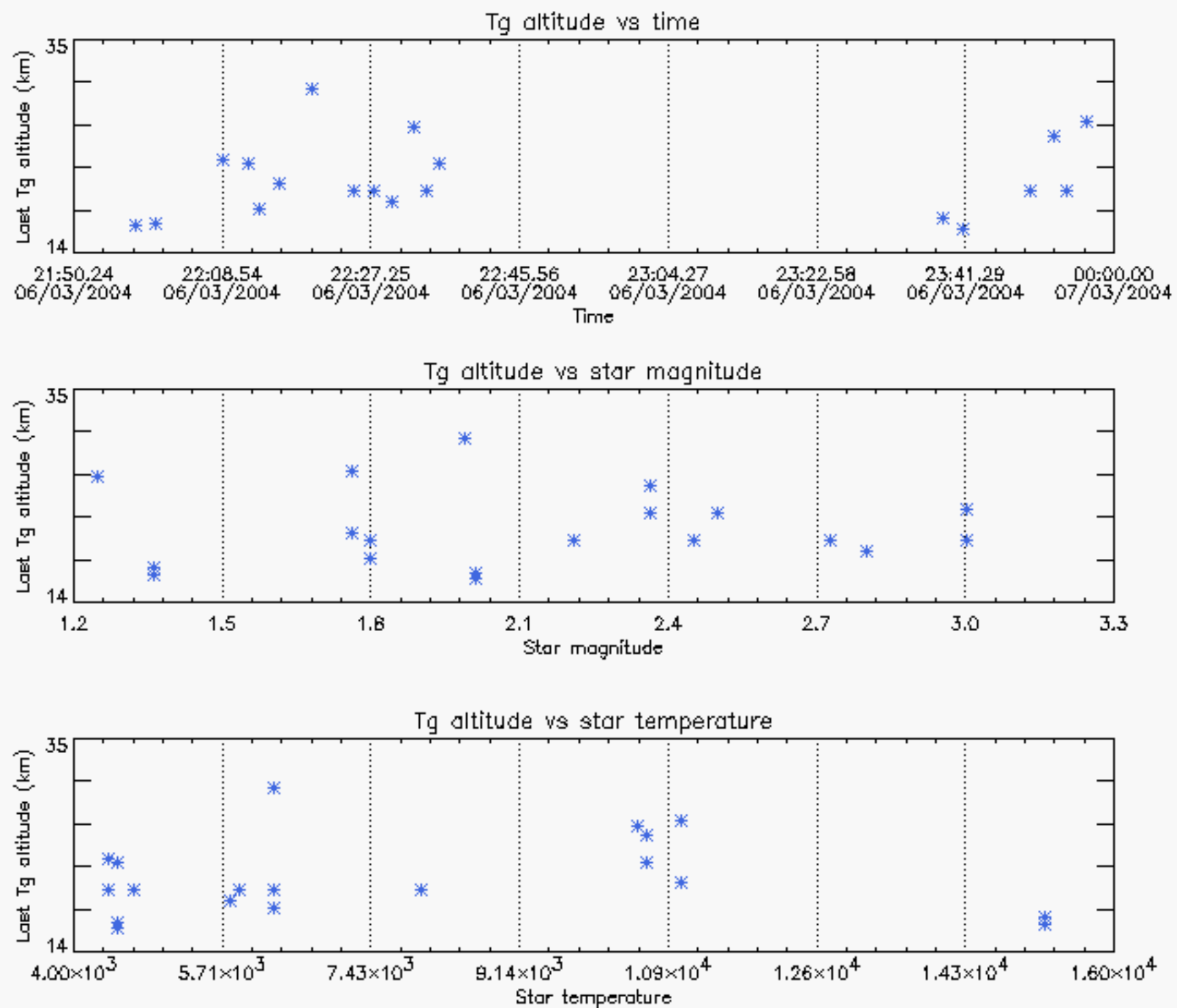


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/data4\_2/GOMOS/level0/GOM\_NL\_\_0PNPDK20040301\_124206\_000058872024\_00396\_10470\_1183.N1

1;	-4479.5;	01-MAR-2004	12:42:06;	Dark	;	66.0;	100;	4Gam Crv	;	2.58;	13100;	occ;	132;	77;	10470
2;	-4283.0;	01-MAR-2004	12:45:22;	Dark	;	48.0;	48;	30Alp Hya	;	1.98;	4100;	occ;	96;	0;	10470
3;	-3914.8;	01-MAR-2004	12:51:30;	Bright	;	43.5;	22;	32Alp Leo	;	1.36;	15200;	occ;	87;	0;	10470
4;	-3759.2;	01-MAR-2004	12:54:06;	Bright	;	44.0;	51;	41Gam1Leo	;	2.01;	4500;	occ;	88;	0;	10470
5;	-3609.5;	01-MAR-2004	12:56:36;	Bright	;	39.0;	17;	78Bet Gem	;	1.16;	4500;	occ;	78;	0;	10470
6;	-3535.3;	01-MAR-2004	12:57:50;	Bright	;	37.0;	24;	66Alp Gem	;	1.58;	10200;	occ;	74;	0;	10470
7;	-3227.1;	01-MAR-2004	13:02:58;	Bright	;	47.5;	174;	52Psi UMa	;	3.00;	4400;	occ;	95;	0;	10470
8;	-3060.6;	01-MAR-2004	13:05:45;	Bright	;	43.5;	82;	48Bet UMa	;	2.37;	10600;	occ;	87;	0;	10470
9;	-2979.6;	01-MAR-2004	13:07:05;	Bright	;	41.5;	36;	50Alp UMa	;	1.80;	6300;	occ;	83;	0;	10470
10;	-2790.8;	01-MAR-2004	13:10:14;	Bright	;	48.5;	32;	77Eps UMa	;	1.76;	11000;	occ;	97;	0;	10470
11;	-2603.8;	01-MAR-2004	13:13:21;	Bright	;	36.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	73;	0;	10470
12;	-2268.9;	01-MAR-2004	13:18:56;	Bright	;	48.5;	119;	14Eta Dra	;	2.73;	4700;	occ;	97;	0;	10470
13;	-2152.5;	01-MAR-2004	13:20:53;	Bright	;	35.5;	89;	5Alp Cep	;	2.45;	8000;	occ;	71;	0;	10470
14;	-2003.4;	01-MAR-2004	13:23:22;	Bright	;	49.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	98;	0;	10470
15;	-1846.6;	01-MAR-2004	13:25:59;	Bright	;	35.5;	19;	50Alp Cyg	;	1.25;	10500;	occ;	71;	0;	10470
16;	-1753.1;	01-MAR-2004	13:27:32;	Bright	;	36.0;	66;	37Gam Cyg	;	2.21;	5900;	occ;	72;	0;	10470
17;	-1660.4;	01-MAR-2004	13:29:05;	Bright	;	36.0;	92;	53Eps Cyg	;	2.50;	4500;	occ;	72;	0;	10470
18;	-1477.6;	01-MAR-2004	13:32:08;	Bright	;	88.0;	133;	40Zet Her	;	2.81;	6000;	occ;	176;	0;	10470
19;	-1236.0;	01-MAR-2004	13:36:09;	Bright	;	41.5;	168;	17Zet Aql	;	2.99;	11000;	occ;	83;	0;	10470
20;	-1029.5;	01-MAR-2004	13:39:36;	Dark	;	72.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	145;	0;	10470
21;	-875.9;	01-MAR-2004	13:42:09;	Dark	;	63.0;	126;	60Bet Oph	;	2.77;	4250;	occ;	126;	0;	10470
22;	-646.0;	01-MAR-2004	13:45:59;	Dark	;	42.0;	155;	41Pi Sgr	;	2.90;	6600;	occ;	84;	0;	10470
23;	-536.4;	01-MAR-2004	13:47:49;	Dark	;	45.5;	57;	34Sig Sgr	;	2.07;	26000;	occ;	91;	0;	10470
24;	-348.6;	01-MAR-2004	13:50:56;	Dark	;	45.5;	38;	20Eps Sgr	;	1.84;	11000;	occ;	91;	0;	10470
25;	-118.4;	01-MAR-2004	13:54:47;	Dark	;	45.0;	40;	The Sco	;	1.86;	7100;	occ;	90;	0;	10470
26;	-0.3;	01-MAR-2004	13:56:45;	Dark	;	69.0;	16;	21Alp Sco	;	1.02;	3000;	occ;	138;	0;	10470
27;	155.6;	01-MAR-2004	13:59:21;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	10471
28;	282.9;	01-MAR-2004	14:01:28;	Dark	;	38.5;	134;	Bet TrA	;	2.81;	6600;	occ;	77;	0;	10471
29;	359.0;	01-MAR-2004	14:02:44;	Dark	;	39.5;	145;	Gam TrA	;	2.87;	10600;	occ;	79;	0;	10471
30;	439.4;	01-MAR-2004	14:04:05;	Dark	;	47.5;	4;	Alp1Cen	;	-0.01;	5800;	occ;	95;	0;	10471
31;	518.6;	01-MAR-2004	14:05:24;	Dark	;	43.0;	10;	Bet Cen	;	0.61;	28000;	occ;	86;	0;	10471
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33;	819.7;	01-MAR-2004	14:10:25;	Dark	;	46.0;	64;	Gam Cen	;	2.20;	10600;	occ;	92;	0;	10471
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3;	-3914.1;	01-MAR-2004	06:09:07;	Bright	;	44.0;	22;	32Alp Leo	;	1.36;	15200;	occ;	88;	0;	10466
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5;	-3610.0;	01-MAR-2004	06:14:12;	Bright	;	53.0;	17;	78Bet Gem	;	1.16;	4500;	occ;	106;	0;	10466
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9;	-2978.1;	01-MAR-2004	06:24:43;	Bright	;	42.5;	36;	50Alp UMa	;	1.80;	6300;	occ;	85;	0;	10466
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14;	-2002.0;	01-MAR-2004	06:40:59;	Bright	;	46.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	92;	0;	10466
15;	-1847.5;	01-MAR-2004	06:43:34;	Bright	;	38.5;	19;	50Alp Cyg	;	1.25;	10500;	occ;	77;	0;	10466
16;	-1753.4;	01-MAR-2004	06:45:08;	Bright	;	37.0;	66;	37Gam Cyg	;	2.21;	5900;	occ;	74;	0;	10466
17;	-1660.7;	01-MAR-2004	06:46:41;	Bright	;	37.0;	92;	53Eps Cyg	;	2.50;	4500;	occ;	74;	0;	10466
18;	-1479.0;	01-MAR-2004	06:49:42;	Bright	;	81.5;	133;	40Zet Her	;	2.81;	6000;	occ;	163;	0;	10466
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27;	154.3;	01-MAR-2004	07:16:56;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	10467
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36; 1184.1; 01-MAR-2004 07:34:06; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;10467
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6; -3058.7; 01-MAR-2004 08:03:59; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;10467
7; -2978.3; 01-MAR-2004 08:05:19; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;10467
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13;-1834.4; 09-MAR-2004 09:13:16; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;10582
14;-1740.2; 09-MAR-2004 09:14:51; Bright; 38.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 77; 0;10582
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17;-1192.7; 09-MAR-2004 09:23:58; Dark ; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;10582
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22; -268.7; 09-MAR-2004 09:39:22; Dark ; 48.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 97; 0;10582
23; -70.1; 09-MAR-2004 09:42:41; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;10582
24; 49.0; 09-MAR-2004 09:44:40; Dark ; 42.0; 147; Alp Ara ; 2.88; 26000;occ; 84; 0;10583
25; 139.8; 09-MAR-2004 09:46:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10583
26; 272.3; 09-MAR-2004 09:48:23; Dark ; 44.0; 43; Alp TrA ; 1.91; 4250;occ; 88; 0;10583
27; 407.9; 09-MAR-2004 09:50:39; Dark ; 39.5; 145; Gam TrA ; 2.87; 10600;occ; 79; 0;10583
28; 506.0; 09-MAR-2004 09:52:17; Dark ; 44.5; 4; Alp1Cen ; -0.01; 5800;occ; 89; 0;10583
29; 582.4; 09-MAR-2004 09:53:33; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;10583
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31; 787.9; 09-MAR-2004 09:56:59; Dark ; 39.5; 129; Del Cru ; 2.79; 26000;occ; 79; 0;10583
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33; 1001.3; 09-MAR-2004 10:00:32; Dark ; 40.5; 91; Kap Vel ; 2.49; 26000;occ; 81; 0;10583
34; 1200.7; 09-MAR-2004 10:03:51; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;10583
35; 1380.2; 09-MAR-2004 10:06:51; Dark ; 61.0; 106; 9Bet Crv ; 2.65; 5600;occ; 122; 0;10583
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2;	-3925.9;	09-MAR-2004	10:19:01;	Bright;	;	40.0;	22;	32Alp Leo	;	1.36;	15200;	occ;	80;	0;	10583
3;	-3783.0;	09-MAR-2004	10:21:24;	Bright;	;	40.5;	51;	41Gam1Leo	;	2.01;	4500;	occ;	81;	0;	10583
4;	-3521.0;	09-MAR-2004	10:25:46;	Bright;	;	112.0;	138;	47Eps Vir	;	2.83;	4700;	occ;	224;	0;	10583
5;	-3288.7;	09-MAR-2004	10:29:38;	Bright;	;	42.5;	174;	52Psi UMa	;	3.00;	4400;	occ;	85;	0;	10583
6;	-3106.4;	09-MAR-2004	10:32:40;	Bright;	;	41.0;	82;	48Bet UMa	;	2.37;	10600;	occ;	82;	0;	10583
7;	-3020.0;	09-MAR-2004	10:34:07;	Bright;	;	41.5;	36;	50Alp UMa	;	1.80;	6300;	occ;	83;	0;	10583
8;	-2883.7;	09-MAR-2004	10:36:23;	Bright;	;	48.5;	32;	77Eps UMa	;	1.76;	11000;	occ;	97;	0;	10583
9;	-2602.1;	09-MAR-2004	10:41:05;	Bright;	;	38.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	77;	0;	10583
10;	-2325.0;	09-MAR-2004	10:45:42;	Bright;	;	49.0;	119;	14Eta Dra	;	2.73;	4700;	occ;	98;	0;	10583
11;	-2140.0;	09-MAR-2004	10:48:47;	Bright;	;	37.0;	89;	5Alp Cep	;	2.45;	8000;	occ;	74;	0;	10583
12;	-2039.4;	09-MAR-2004	10:50:27;	Bright;	;	50.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	100;	0;	10583
13;	-1834.6;	09-MAR-2004	10:53:52;	Bright;	;	36.5;	19;	50Alp Cyg	;	1.25;	10500;	occ;	73;	0;	10583
14;	-1740.3;	09-MAR-2004	10:55:26;	Bright;	;	36.0;	66;	37Gam Cyg	;	2.21;	5900;	occ;	72;	0;	10583
15;	-1642.5;	09-MAR-2004	10:57:04;	Bright;	;	36.0;	92;	53Eps Cyg	;	2.50;	4500;	occ;	72;	0;	10583
16;	-1442.1;	09-MAR-2004	11:00:25;	Dark	;	121.0;	133;	40Zet Her	;	2.81;	6000;	occ;	242;	0;	10583
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18;	-898.9;	09-MAR-2004	11:09:28;	Dark	;	93.0;	59;	55Alp Oph	;	2.08;	8900;	occ;	186;	0;	10583
19;	-735.4;	09-MAR-2004	11:12:11;	Dark	;	83.0;	126;	60Bet Oph	;	2.77;	4250;	occ;	166;	0;	10583
20;	-583.8;	09-MAR-2004	11:14:43;	Dark	;	44.0;	155;	41Pi Sgr	;	2.90;	6600;	occ;	88;	0;	10583
21;	-467.3;	09-MAR-2004	11:16:39;	Dark	;	45.0;	57;	34Sig Sgr	;	2.07;	26000;	occ;	90;	0;	10583
22;	-268.2;	09-MAR-2004	11:19:58;	Dark	;	48.0;	38;	20Eps Sgr	;	1.84;	11000;	occ;	96;	0;	10583
23;	-69.3;	09-MAR-2004	11:23:17;	Dark	;	50.5;	25;	35Lam Sco	;	1.62;	28000;	occ;	101;	0;	10583
24;	49.6;	09-MAR-2004	11:25:16;	Dark	;	43.5;	147;	Alp Ara	;	2.88;	26000;	occ;	87;	0;	10584
25;	141.0;	09-MAR-2004	11:26:48;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	10584
26;	272.1;	09-MAR-2004	11:28:59;	Dark	;	42.0;	43;	Alp TrA	;	1.91;	4250;	occ;	84;	0;	10584
27;	407.6;	09-MAR-2004	11:31:14;	Dark	;	38.5;	145;	Gam TrA	;	2.87;	10600;	occ;	77;	0;	10584
28;	506.3;	09-MAR-2004	11:32:53;	Dark	;	44.0;	4;	Alp1Cen	;	-0.01;	5800;	occ;	88;	0;	10584
29;	582.8;	09-MAR-2004	11:34:09;	Dark	;	43.0;	10;	Bet Cen	;	0.61;	28000;	occ;	86;	0;	10584
30;	714.6;	09-MAR-2004	11:36:21;	Dark	;	42.0;	12;	Alp1Cru	;	0.77;	30000;	occ;	84;	0;	10584
31;	788.0;	09-MAR-2004	11:37:35;	Dark	;	39.5;	129;	Del Cru	;	2.79;	26000;	occ;	79;	0;	10584
32;	882.9;	09-MAR-2004	11:39:10;	Dark	;	44.0;	64;	Gam Cen	;	2.20;	10600;	occ;	88;	0;	10584
33;	1000.6;	09-MAR-2004	11:41:07;	Dark	;	42.5;	91;	Kap Vel	;	2.49;	26000;	occ;	85;	0;	10584
34;	1200.5;	09-MAR-2004	11:44:27;	Dark	;	43.0;	65;	Lam Vel	;	2.20;	4400;	occ;	86;	0;	10584
35;	1380.3;	09-MAR-2004	11:47:27;	Dark	;	60.0;	106;	9Bet Crv	;	2.65;	5600;	occ;	120;	0;	10584
36;	1534.3;	09-MAR-2004	11:50:01;	Dark	;	57.0;	100;	4Gam Crv	;	2.58;	13100;	occ;	114;	0;	10584

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3;	-3926.1;	09-MAR-2004	11:59:36;	Bright;	;	41.5;	22;	32Alp Leo	;	1.36;	15200;	occ;	83;	0;	10584
4;	-3783.4;	09-MAR-2004	12:01:59;	Bright;	;	41.5;	51;	41Gam1Leo	;	2.01;	4500;	occ;	83;	0;	10584
5;	-3523.4;	09-MAR-2004	12:06:19;	Bright;	;	104.0;	138;	47Eps Vir	;	2.83;	4700;	occ;	208;	0;	10584
6;	-3289.4;	09-MAR-2004	12:10:13;	Bright;	;	44.0;	174;	52Psi UMa	;	3.00;	4400;	occ;	88;	0;	10584
7;	-3107.0;	09-MAR-2004	12:13:15;	Bright;	;	41.0;	82;	48Bet UMa	;	2.37;	10600;	occ;	82;	0;	10584
8;	-3020.6;	09-MAR-2004	12:14:42;	Bright;	;	40.5;	36;	50Alp UMa	;	1.80;	6300;	occ;	81;	0;	10584
9;	-2885.2;	09-MAR-2004	12:16:57;	Bright;	;	50.5;	32;	77Eps UMa	;	1.76;	11000;	occ;	101;	0;	10584
10;	-2602.4;	09-MAR-2004	12:21:40;	Bright;	;	38.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	76;	0;	10584
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16;	-1643.0;	09-MAR-2004	12:37:40;	Bright;	;	38.0;	92;	53Eps Cyg	;	2.50;	4500;	occ;	76;	0;	10584
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22;	-466.6;	09-MAR-2004	12:57:16;	Dark	;	43.5;	57;	34Sig Sgr	;	2.07;	26000;	occ;	87;	0;	10584
23;	-267.3;	09-MAR-2004	13:00:35;	Dark	;	47.5;	38;	20Eps Sgr	;	1.84;	11000;	occ;	95;	0;	10584
24;	-68.3;	09-MAR-2004	13:03:54;	Dark	;	51.0;	25;	35Lam Sco	;	1.62;	28000;	occ;	102;	0;	10584
25;	50.3;	09-MAR-2004	13:05:53;	Dark	;	43.0;	147;	Alp Ara	;	2.88;	26000;	occ;	86;	0;	10585
26;	188.1;	09-MAR-2004	13:08:11;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	10585
27;	272.5;	09-MAR-2004	13:09:35;	Dark	;	43.0;	43;	Alp TrA	;	1.91;	4250;	occ;	86;	0;	10585
28;	408.1;	09-MAR-2004	13:11:51;	Dark	;	39.0;	145;	Gam TrA	;	2.87;	10600;	occ;	78;	0;	10585
29;	506.9;	09-MAR-2004	13:13:29;	Dark	;	44.5;	4;	Alp1Cen	;	-0.01;	5800;	occ;	89;	0;	10585
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13;	-2453.5;	24-MAR-2004	06:10:31;	Bright	;	48.5;	119;	14Eta Dra	;	2.73;	4700;	occ;	97;	0;	10795
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34;	1563.0;	24-MAR-2004	07:17:27;	Dark	;	47.5;	100;	4Gam Crv	;	2.58;	13100;	occ;	95;	0;	10796
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