

# GOMOS Daily Report 07-DEC-2003

## SUMMARY

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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	08DEC2003 06:48:41
Data source version	<Any version>
Start time of products	07-DEC-2003 (07DEC2003 00:00:00)
Stop time of products	08-DEC-2003 (08DEC2003 00:00:00)
Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

## 2. Summary of products arrived in PCF

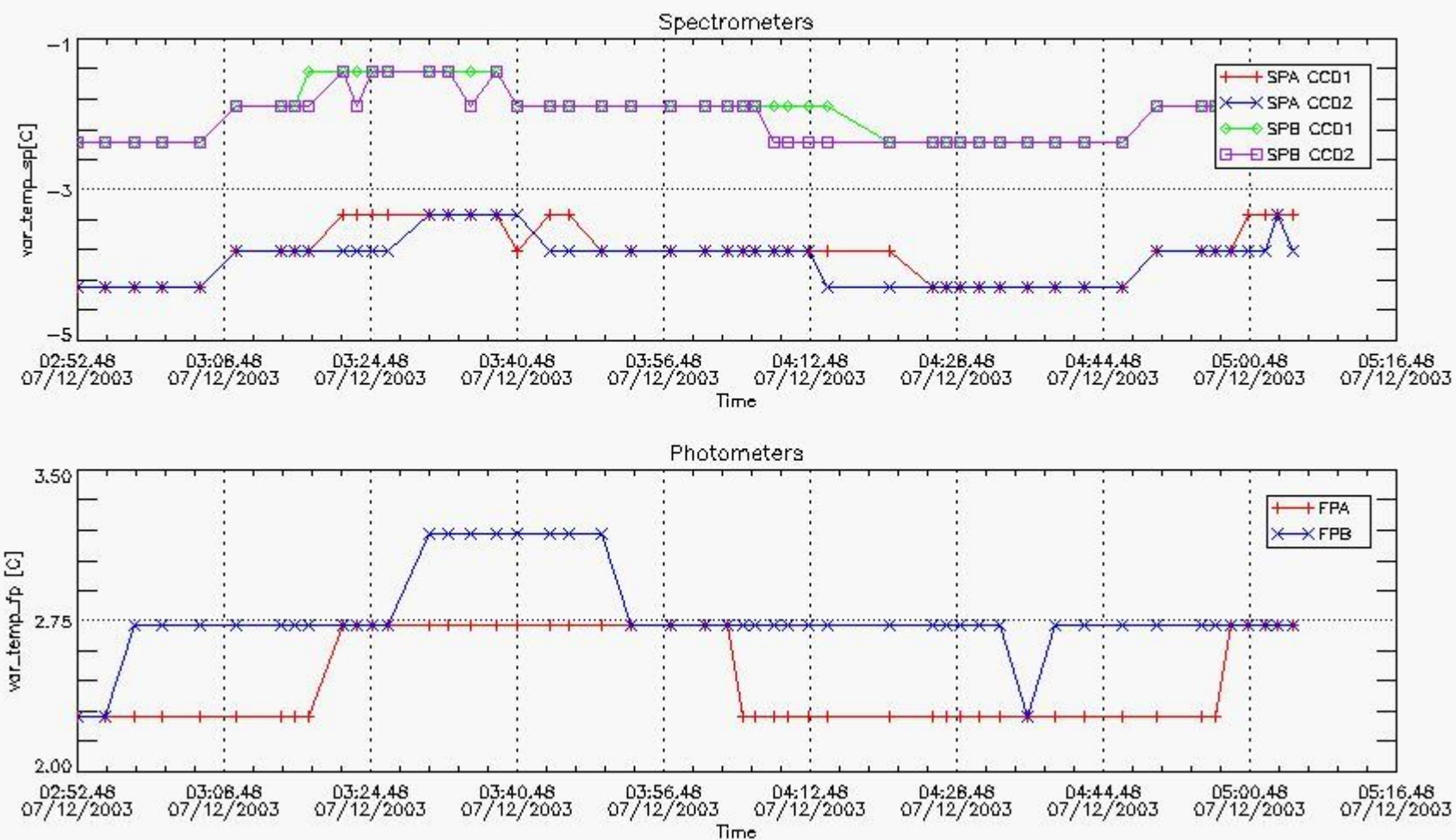
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20031207_025249_000000512022_00175_09247_0016.N1	07-DEC-2003 02:52:49	Bright	51.000	39	85Eta UMa	1.8540	24000.	102	9247	No
GOM_TRA_1PNPDE20031207_025553_000000432022_00175_09247_0017.N1	07-DEC-2003 02:55:53	Bright	43.000	180	27Gam Boo	3.0400	8000.0	86	9247	No
GOM_TRA_1PNPDE20031207_025857_000000362022_00175_09247_0018.N1	07-DEC-2003 02:58:57	Bright	35.500	83		2.3780	11000.	71	9247	No
GOM_TRA_1PNPDE20031207_030203_000000382022_00175_09247_0019.N1	07-DEC-2003 03:02:03	Bright	38.000	111	8Eta Boo	2.6800	6000.0	76	9247	No
GOM_TRA_1PNPDE20031207_030614_000001052022_00175_09247_0020.N1	07-DEC-2003 03:06:14	Dark	104.50	96	68Del Leo	2.5600	9300.0	209	9247	No
GOM_TRA_1PNPDE20031207_031003_000000482022_00175_09247_0021.N1	07-DEC-2003 03:10:03	Dark	48.000	121	29Gam Vir	2.7400	7200.0	96	9247	No
GOM_TRA_1PNPDE20031207_031457_000000512022_00175_09247_0022.N1	07-DEC-2003 03:14:57	Dark	50.500	163	7Del Crv	2.9450	11000.	101	9247	No
GOM_TRA_1PNPDE20031207_031630_000000522022_00175_09247_0023.N1	07-DEC-2003 03:16:30	Dark	51.500	106	9Bet Crv	2.6480	5600.0	103	9247	No
GOM_TRA_1PNPDE20031207_031805_000000422022_00175_09247_0024.N1	07-DEC-2003 03:18:05	Dark	41.500	123	lot Cen	2.7500	10200.	83	9247	No
GOM_TRA_1PNPDE20031207_032151_000000422022_00175_09247_0025.N1	07-DEC-2003 03:21:51	Dark	42.000	77	Eps Cen	2.3030	28000.	84	9247	No
GOM_TRA_1PNPDE20031207_032315_000000522022_00175_09247_0026.N1	07-DEC-2003 03:23:15	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	9247	No
GOM_TRA_1PNPDE20031207_032456_000000422022_00176_09248_0027.N1	07-DEC-2003 03:24:56	Dark	41.500	129	Del Cru	2.7930	26000.	83	9248	No
GOM_TRA_1PNPDE20031207_032639_000000392022_00176_09248_0028.N1	07-DEC-2003 03:26:39	Dark	39.000	112	Alp Mus	2.6880	26000.	78	9248	No
GOM_TRA_1PNPDE20031207_033108_000000452022_00176_09248_0029.N1	07-DEC-2003 03:31:08	Dark	44.500	29	Bet Car	1.6720	10200.	89	9248	No
GOM_TRA_1PNPDE20031207_033320_000000502022_00176_09248_0030.N1	07-DEC-2003 03:33:20	Dark	49.500	41	Eps Car	1.8600	4100.0	99	9248	No
GOM_TRA_1PNPDE20031207_033540_000000512022_00176_09248_0031.N1	07-DEC-2003 03:35:40	Dark	51.000	34	Gam2Vel	1.7930	23000.	102	9248	No
GOM_TRA_1PNPDE20031207_033833_000000572022_00176_09248_0032.N1	07-DEC-2003 03:38:33	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	9248	No
GOM_TRA_1PNPDE20031207_034048_000000652022_00176_09248_0033.N1	07-DEC-2003 03:40:48	Dark	64.500	117	Pi Pup	2.7060	3800.0	129	9248	No
GOM_TRA_1PNPDE20031207_034424_000000652022_00176_09248_0034.N1	07-DEC-2003 03:44:24	Dark	65.000	23	21Eps CMa	1.5020	26000.	130	9248	No
GOM_TRA_1PNPDE20031207_034626_000000652022_00176_09248_0035.N1	07-DEC-2003 03:46:26	Dark	64.500	179	24Omi2CMa	3.0320	24000.	129	9248	No
GOM_TRA_1PNPDE20031207_035006_000000882022_00176_09248_0000.N1	07-DEC-2003 03:50:06	Dark	88.000	1	9Alp CMa	-1.4400	11000.	176	9248	No
GOM_TRA_1PNPDE20031207_035308_000000582022_00176_09248_0001.N1	07-DEC-2003 03:53:08	Dark	57.500	56	53Kap Ori	2.0650	30000.	115	9248	No
GOM_TRA_1PNPDE20031207_035736_000000482022_00176_09248_0002.N1	07-DEC-2003 03:57:36	Dark	48.000	94	92Alp Cet	2.5260	3100.0	96	9248	No
GOM_TRA_1PNPDE20031207_040114_000000592022_00176_09248_0003.N1	07-DEC-2003 04:01:14	Dark	59.000	13	87Alp Tau	0.86700	3800.0	118	9248	No
GOM_TRA_1PNPDE20031207_040343_000000402022_00176_09248_0004.N1	07-DEC-2003 04:03:43	Bright	40.000	50	13Alp Ari	2.0070	4250.0	80	9248	No
GOM_TRA_1PNPDE20031207_040522_000000392022_00176_09248_0005.N1	07-DEC-2003 04:05:22	Bright	39.000	150	44Zet Per	2.8900	28000.	78	9248	No
GOM_TRA_1PNPDE20031207_040648_000000452022_00176_09248_0006.N1	07-DEC-2003 04:06:48	Bright	45.000	114	3lot Aur	2.6930	4600.0	90	9248	No
GOM_TRA_1PNPDE20031207_040847_000000422022_00176_09248_0007.N1	07-DEC-2003 04:08:47	Bright	41.500	73	57Gam1And	2.2600	13100.	83	9248	No
GOM_TRA_1PNPDE20031207_041018_000000422022_00176_09248_0008.N1	07-DEC-2003 04:10:18	Bright	42.000	35	33Alp Per	1.7950	6250.0	84	9248	No
GOM_TRA_1PNPDE20031207_041233_000000492022_00176_09248_0009.N1	07-DEC-2003 04:12:33	Bright	49.000	42	34Bet Aur	1.9000	10200.	98	9248	No
GOM_TRA_1PNPDE20031207_041440_000000392022_00176_09248_0010.N1	07-DEC-2003 04:14:40	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	9248	No
GOM_TRA_1PNPDE20031207_042127_000000352022_00176_09248_0011.N1	07-DEC-2003 04:21:27	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	9248	No
GOM_TRA_1PNPDE20031207_042610_000000392022_00176_09248_0012.N1	07-DEC-2003 04:26:10	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	9248	No
GOM_TRA_1PNPDE20031207_042736_000000482022_00176_09248_0013.N1	07-DEC-2003 04:27:36	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	9248	No
GOM_TRA_1PNPDE20031207_042910_000000492022_00176_09248_0014.N1	07-DEC-2003 04:29:10	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	9248	No
GOM_TRA_1PNPDE20031207_043111_000000432022_00176_09248_0015.N1	07-DEC-2003 04:31:11	Bright	43.000	32	77Eps UMa	1.7630	11000.	86	9248	No
GOM_TRA_1PNPDE20031207_043326_000000392022_00176_09248_0016.N1	07-DEC-2003 04:33:26	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	9248	No
GOM_TRA_1PNPDE20031207_043629_000000532022_00176_09248_0017.N1	07-DEC-2003 04:36:29	Bright	53.000	180	27Gam Boo	3.0400	8000.0	106	9248	No
GOM_TRA_1PNPDE20031207_043933_000000382022_00176_09248_0018.N1	07-DEC-2003 04:39:33	Bright	37.500	83		2.3780	11000.	75	9248	No
GOM_TRA_1PNPDE20031207_044239_000000552022_00176_09248_0019.N1	07-DEC-2003 04:42:39	Bright	55.000	111	8Eta Boo	2.6800	6000.0	110	9248	No
GOM_TRA_1PNPDE20031207_044651_000000992022_00176_09248_0020.N1	07-DEC-2003 04:46:51	Dark	99.000	96	68Del Leo	2.5600	9300.0	198	9248	No
GOM_TRA_1PNPDE20031207_045040_000000522022_00176_09248_0021.N1	07-DEC-2003 04:50:40	Dark	52.000	121	29Gam Vir	2.7400	7200.0	104	9248	No
GOM_TRA_1PNPDE20031207_045535_000000482022_00176_09248_0022.N1	07-DEC-2003 04:55:35	Dark	48.000	163	7Del Crv	2.9450	11000.	96	9248	No
GOM_TRA_1PNPDE20031207_045707_000000532022_00176_09248_0023.N1	07-DEC-2003 04:57:07	Dark	53.000	106	9Bet Crv	2.6480	5600.0	106	9248	No
GOM_TRA_1PNPDE20031207_045842_000000442022_00176_09248_0024.N1	07-DEC-2003 04:58:42	Dark	43.500	123	lot Cen	2.7500	10200.	87	9248	No
GOM_TRA_1PNPDE20031207_050037_000000432022_00176_09248_0025.N1	07-DEC-2003 05:00:37	Dark	42.500	95	Zet Cen	2.5450	26000.	85	9248	No
GOM_TRA_1PNPDE20031207_050229_000000392022_00176_09248_0026.N1	07-DEC-2003 05:02:29	Dark	38.500	77	Eps Cen	2.3030	28000.	77	9248	No
GOM_TRA_1PNPDE20031207_050351_000000522022_00176_09248_0027.N1	07-DEC-2003 05:03:51	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	9248	No
GOM_TRA_1PNPDE20031207_050534_000000412022_00177_09249_0028.N1	07-DEC-2003 05:05:34	Dark	40.500	129	Del Cru	2.7930	26000.	81	9249	No

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



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

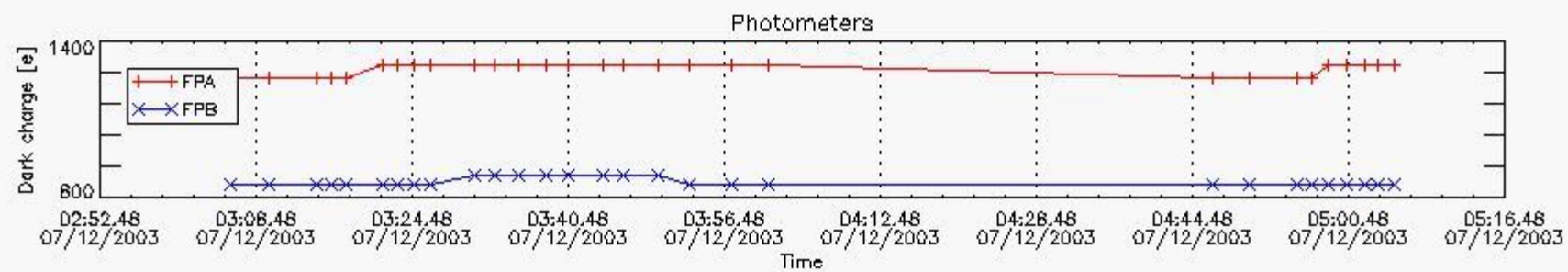
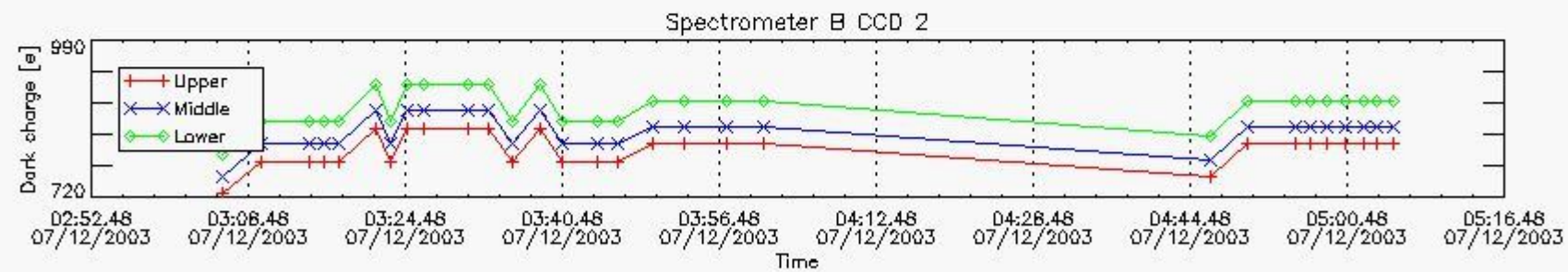
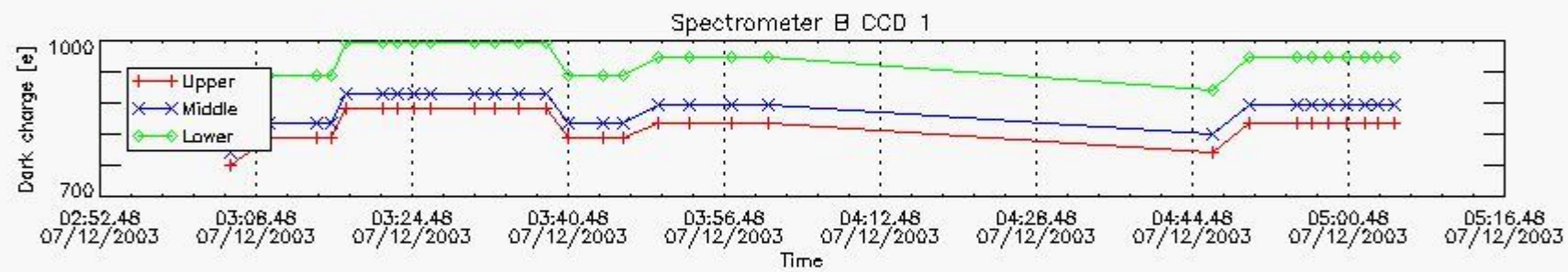
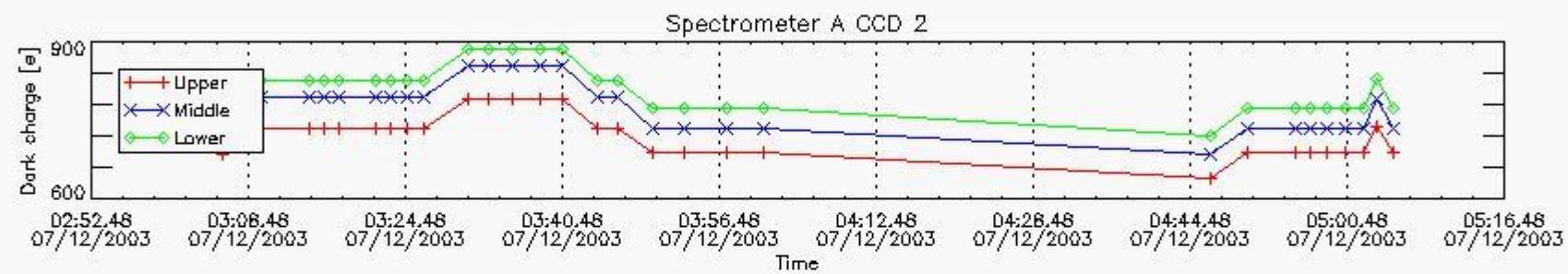
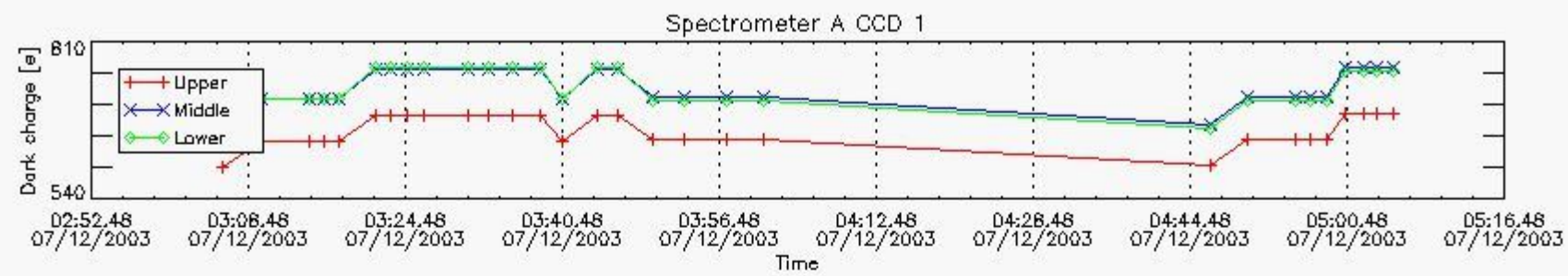
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





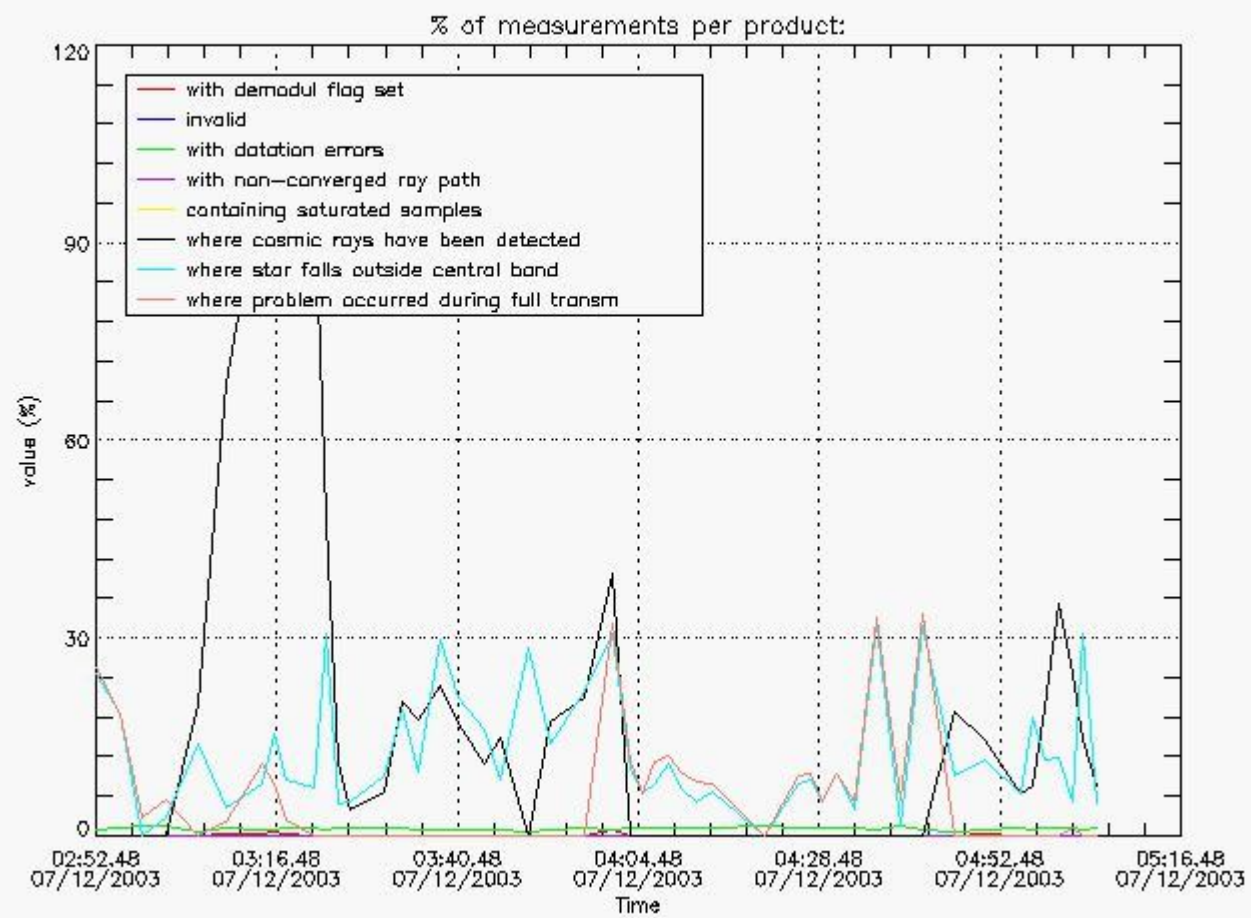
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	18.3673 %
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



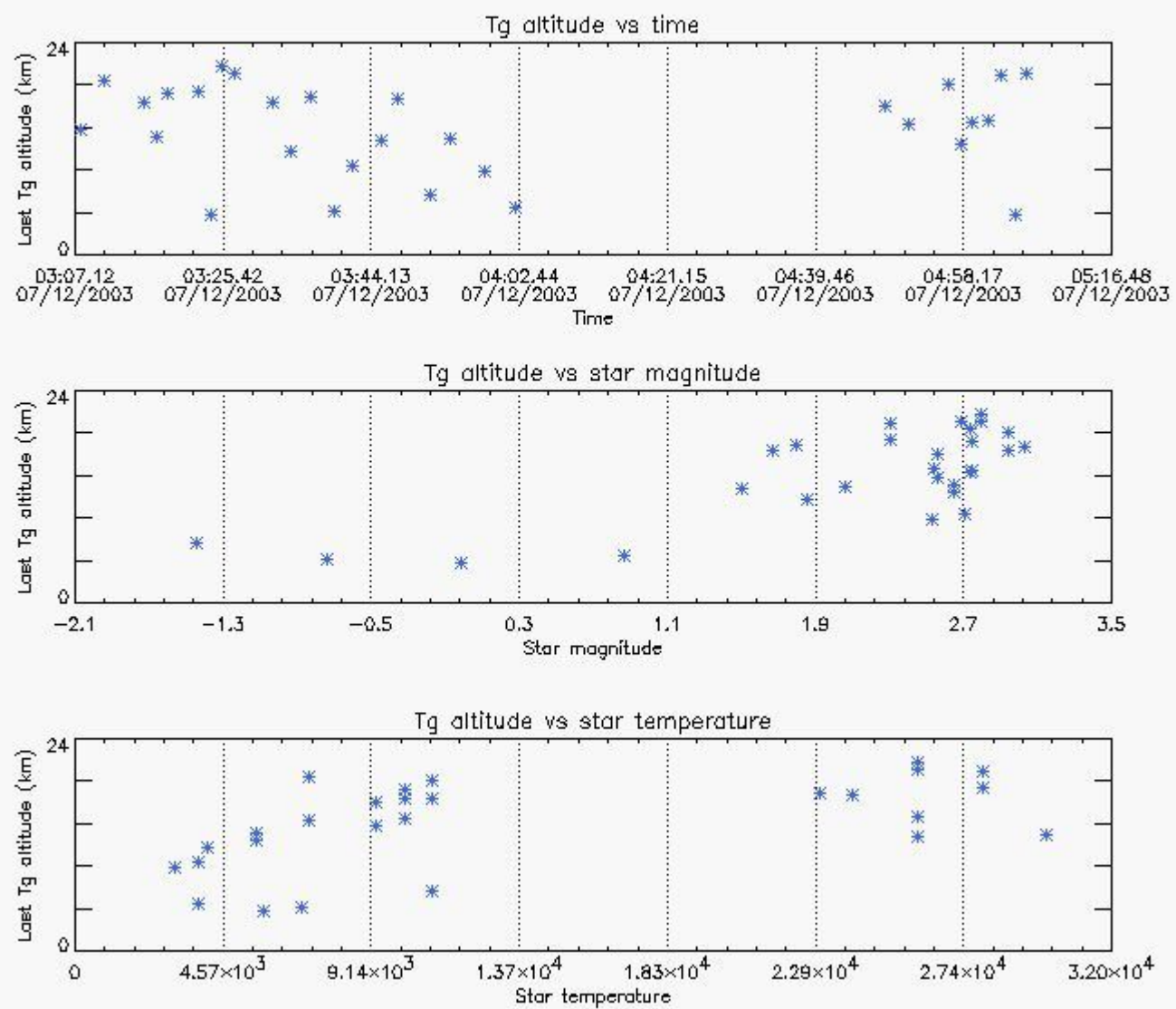
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.266	18.215
St. deviation:	5.2566	5.9306
Maximum:	21.277	27.991
Minimum:	4.4502	5.4528
Number of data:	29.000	20.000

### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

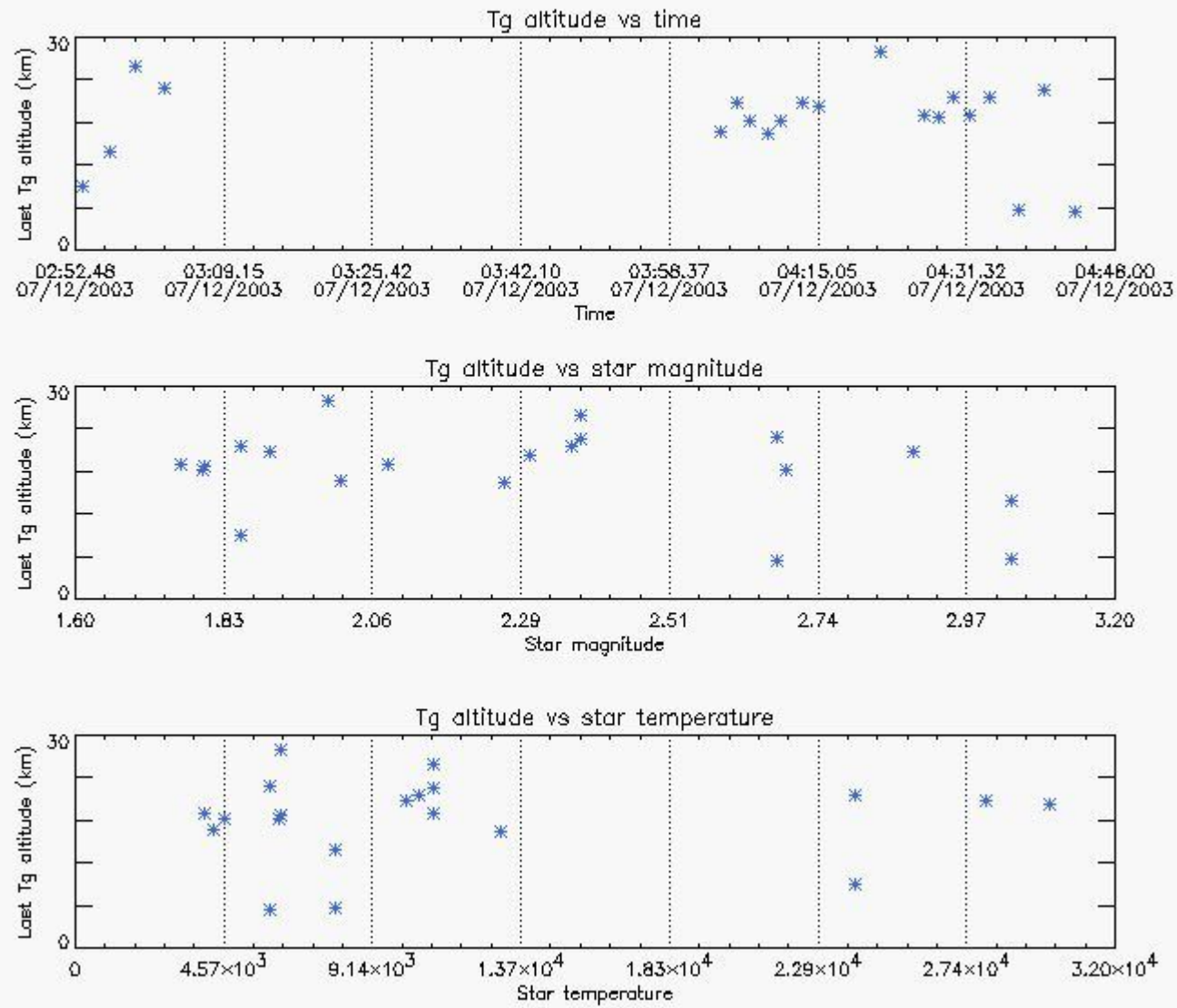


6.3 Plot for BRIGHT limb products





### 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

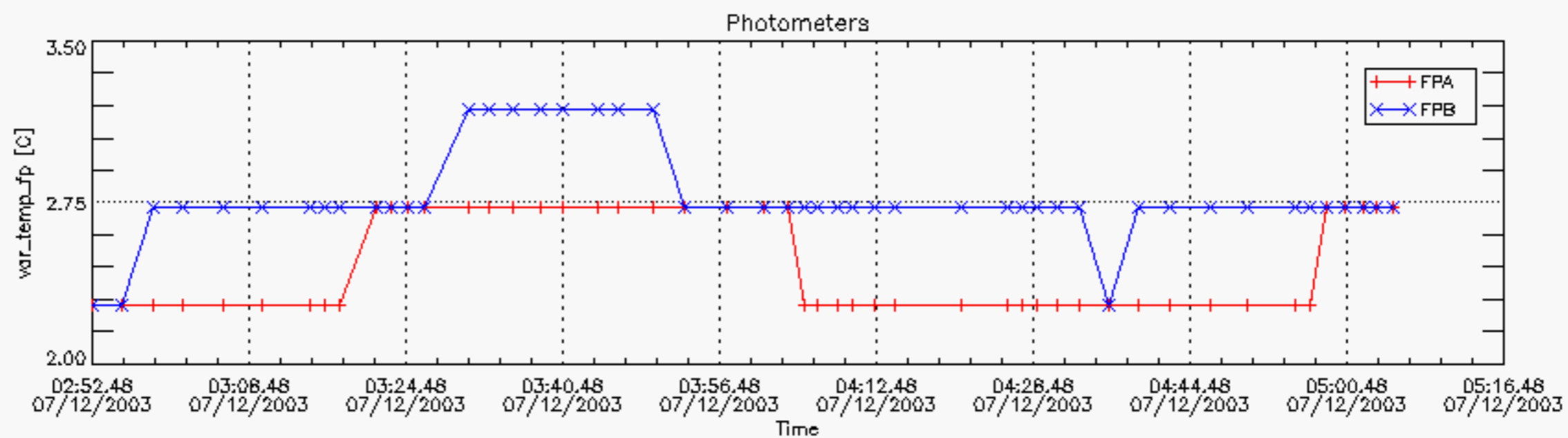
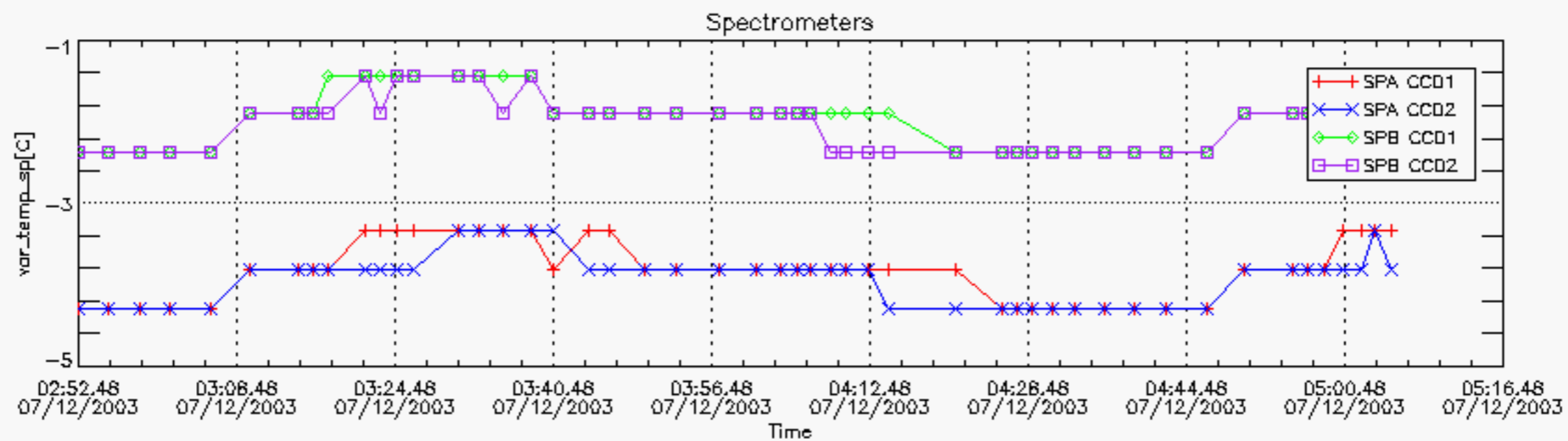
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

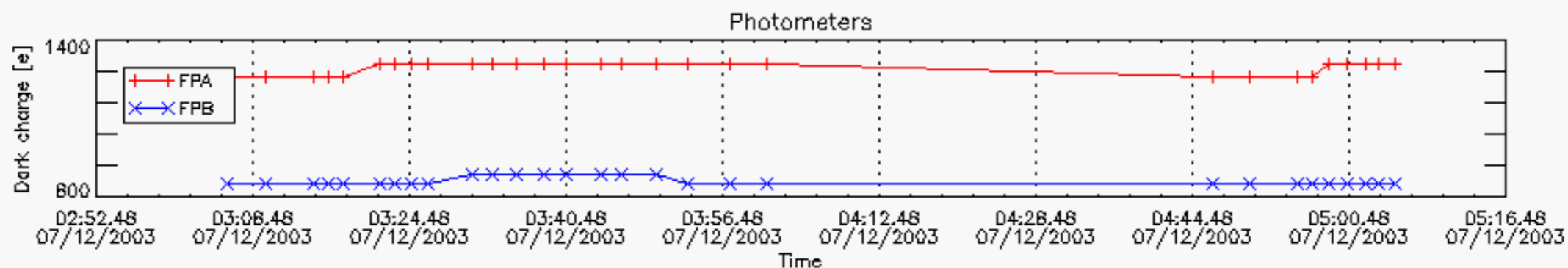
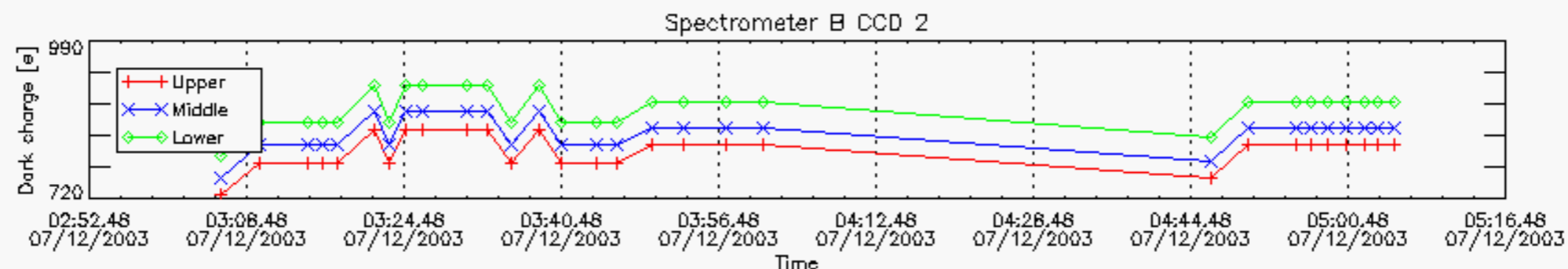
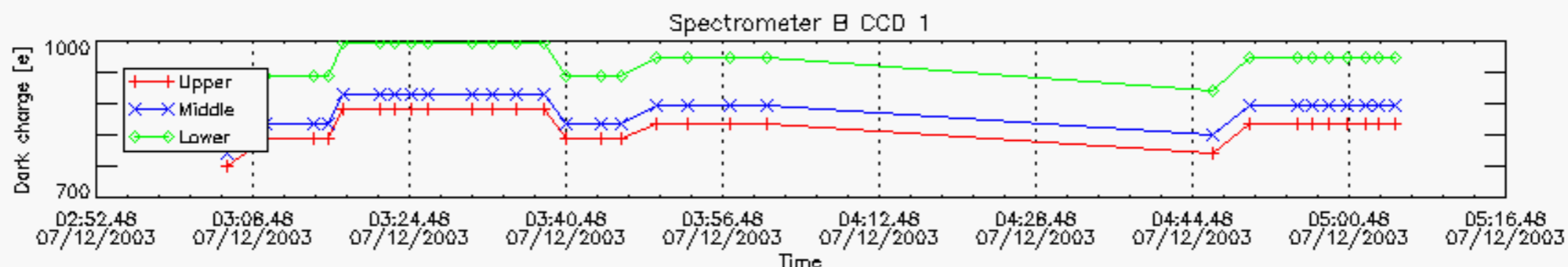
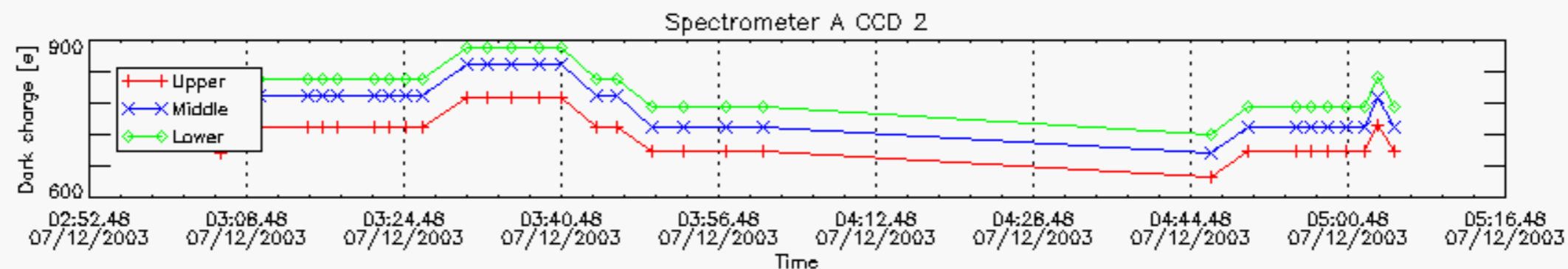
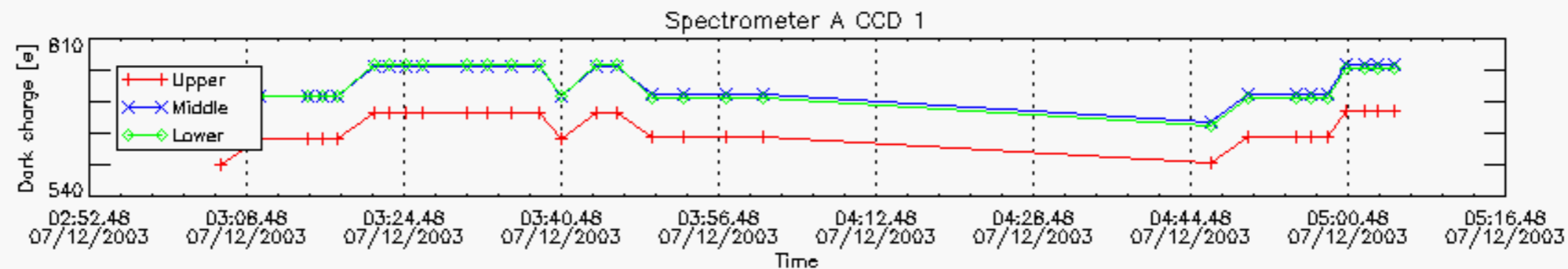
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.8	1447.7	1460.9	1447.7
St. deviation:	6.6607	7.7192	7.0341	8.1917
Maximum:	1643.0	1684.0	1516.0	1508.0
Minimum:	1422.0	1409.0	1432.0	1417.0
Number of data:	39300.	39300.	22000.	22000.

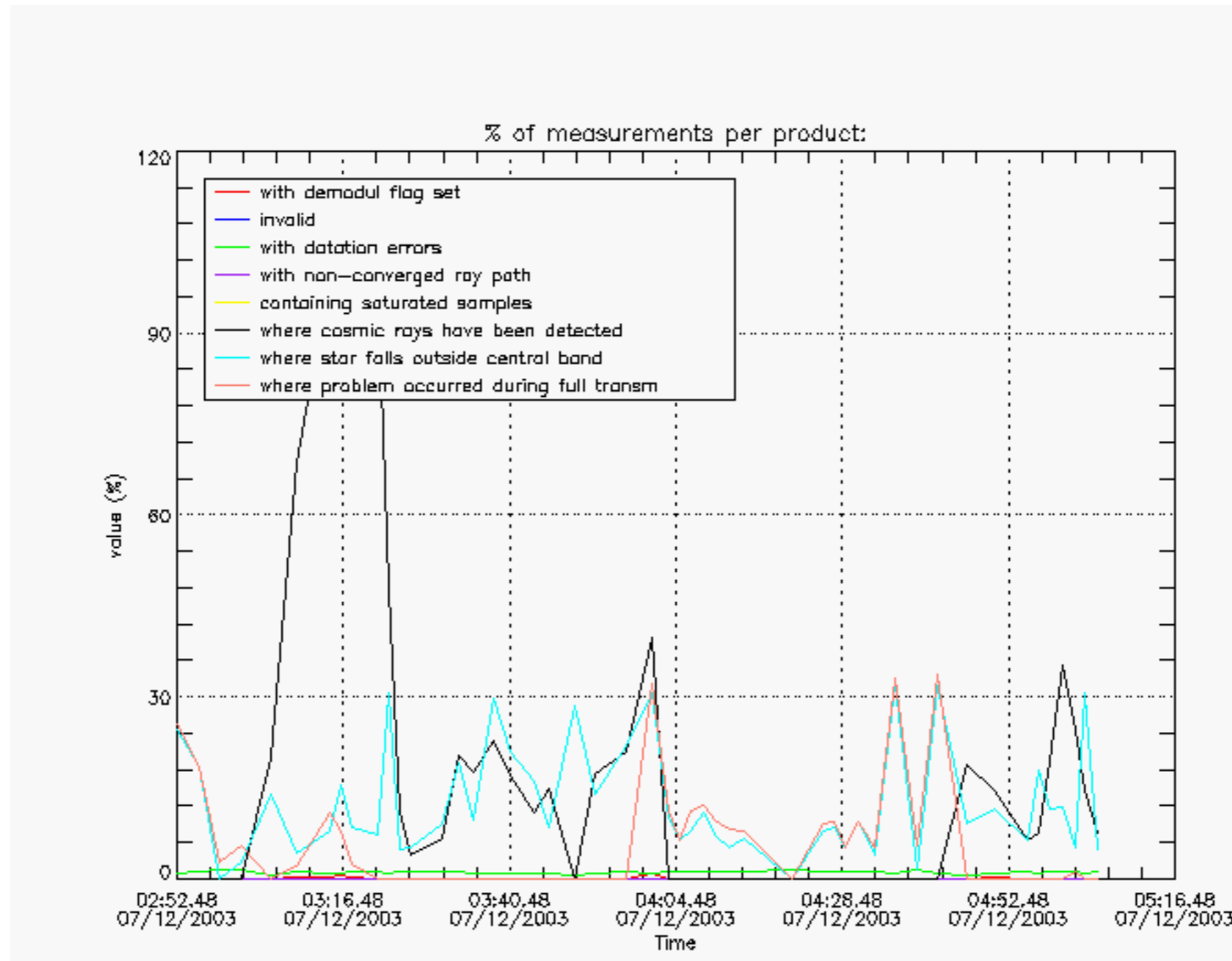




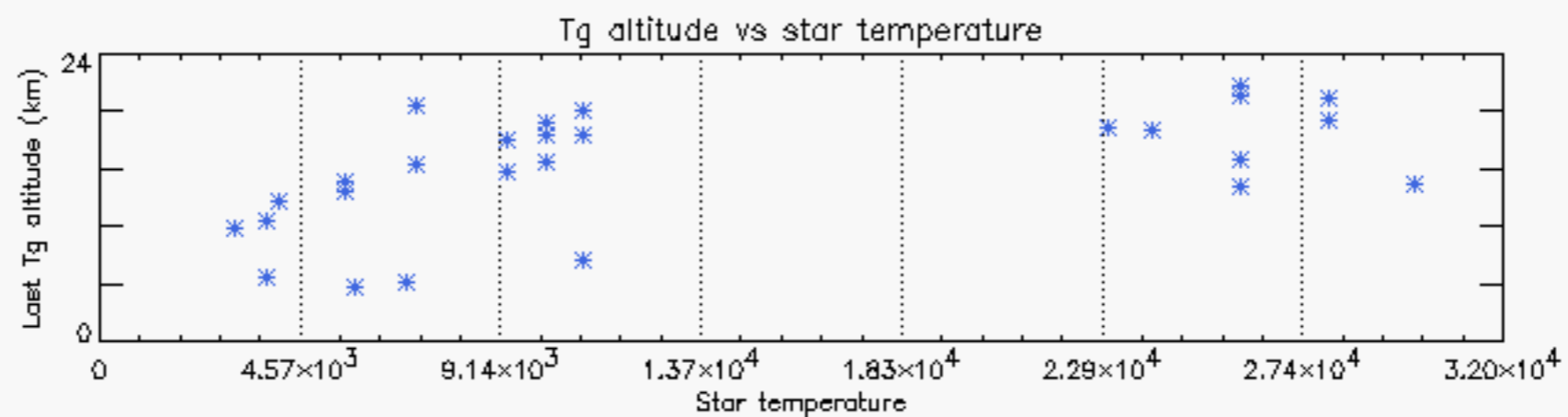
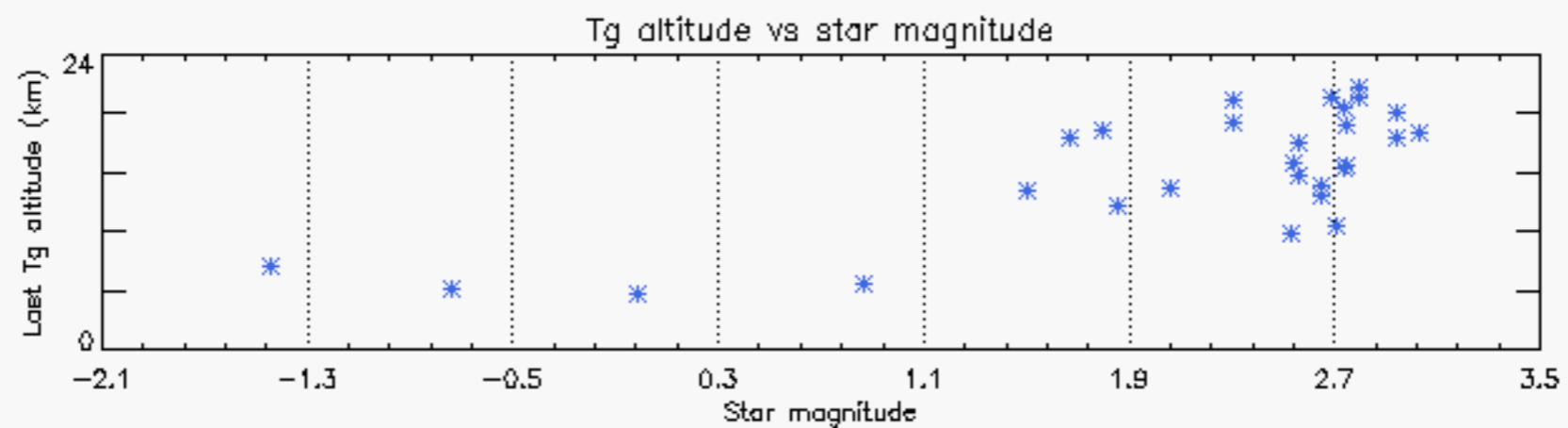
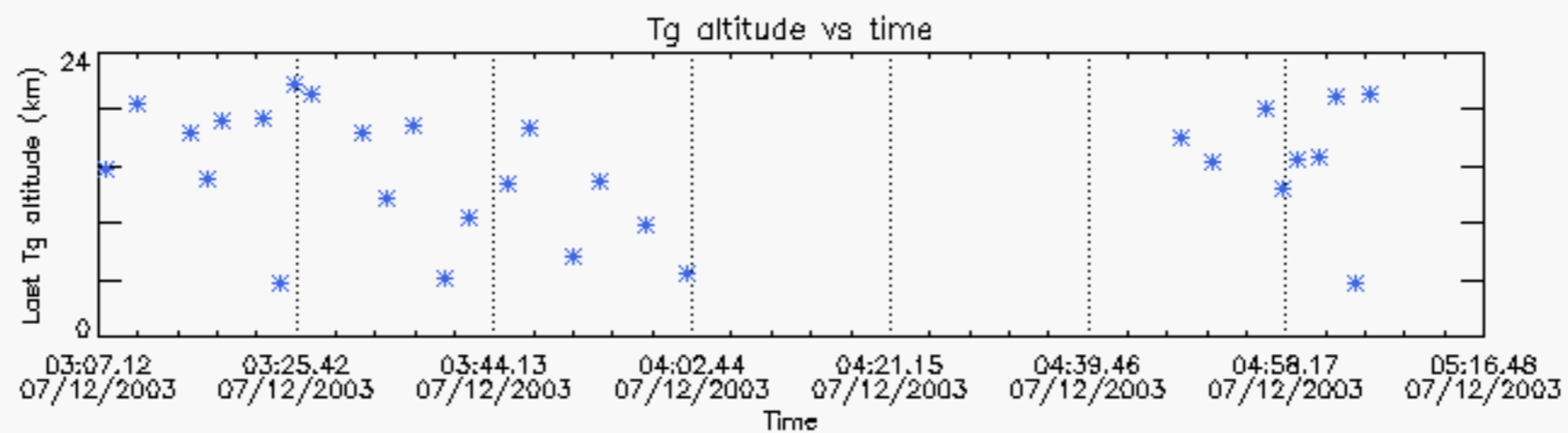






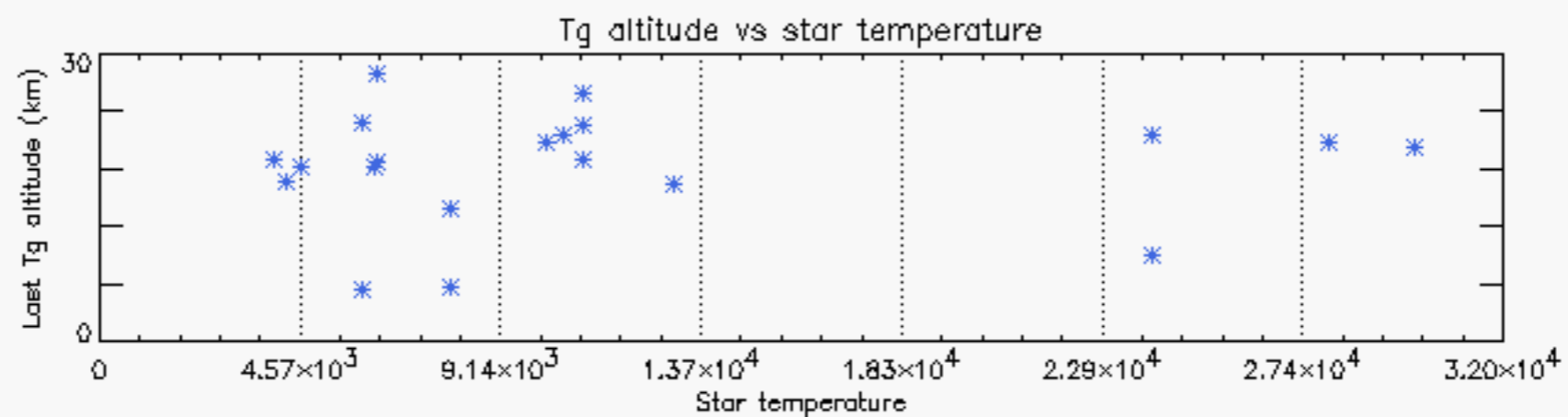
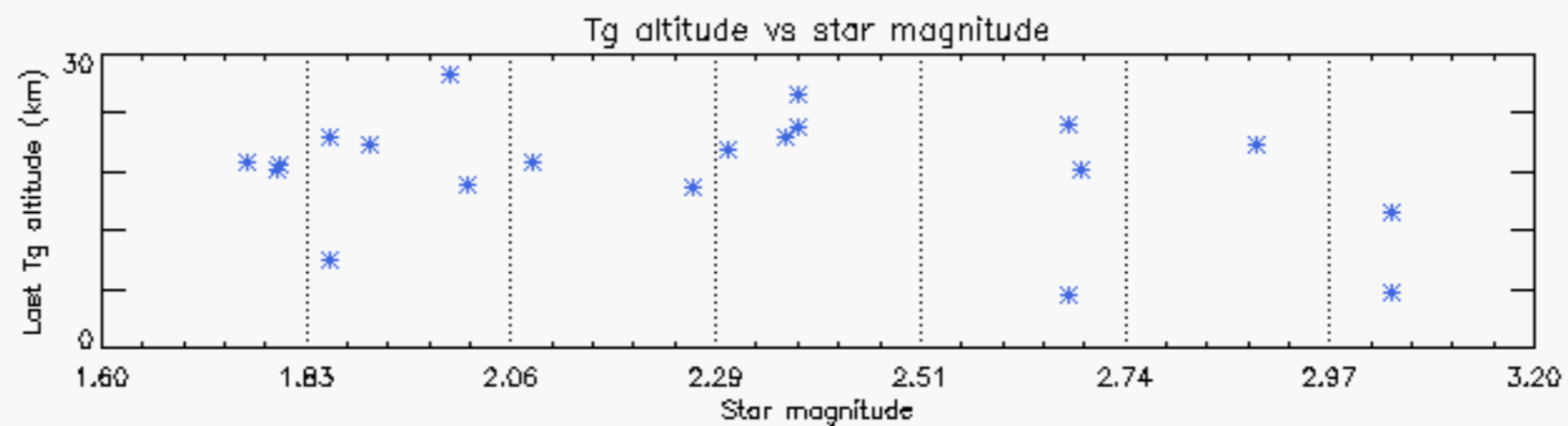
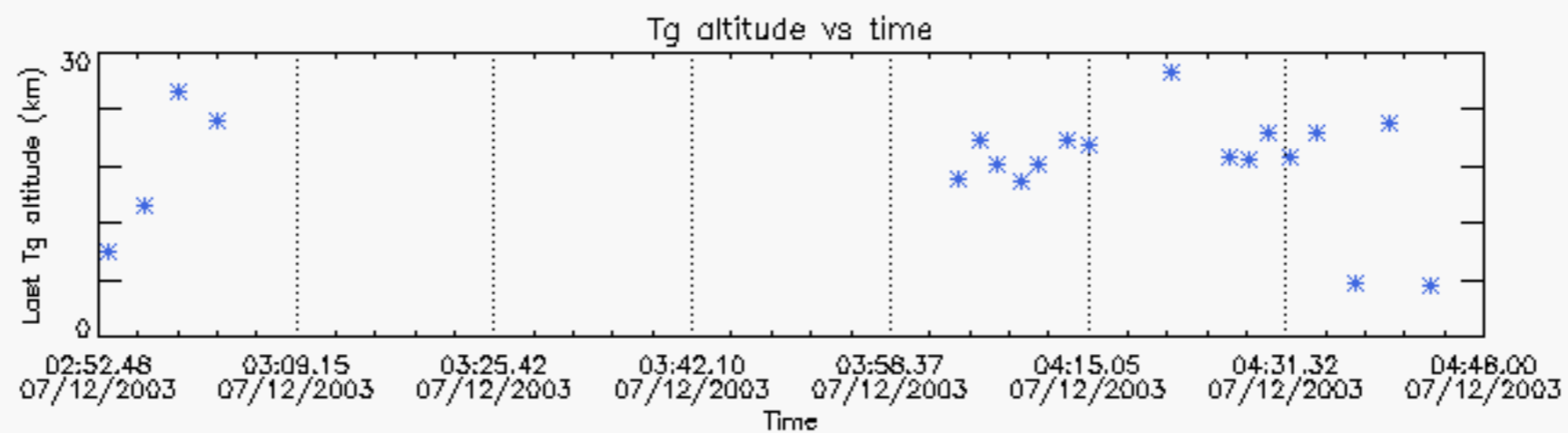


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/data4\_2/GOMOS/level0/GOM\_NL\_0PNPDK20031201\_052111\_000061942022\_00091\_09163\_0248.N1

1;	-4379.2;	01-DEC-2003	05:21:11;	Dark	;	45.0;	165;	34Gam Eri	;	2.95;	3200;occ;	90;	0;	9163
2;	-4285.0;	01-DEC-2003	05:22:45;	Dark	;	62.5;	7;	19Bet Ori	;	0.10;	14000;occ;	125;	0;	9163
3;	-4102.1;	01-DEC-2003	05:25:48;	Dark	;	64.0;	30;	46Eps Ori	;	1.69;	30000;occ;	128;	0;	9163
4;	-3938.0;	01-DEC-2003	05:28:32;	Dark	;	63.0;	27;	24Gam Ori	;	1.64;	26000;occ;	126;	0;	9163
5;	-3804.3;	01-DEC-2003	05:30:46;	Bright;		52.0;	13;	87Alp Tau	;	0.87;	3800;occ;	104;	0;	9163
6;	-3708.7;	01-DEC-2003	05:32:21;	Bright;		40.5;	146;	25Eta Tau	;	2.87;	15200;occ;	81;	0;	9163
7;	-3567.0;	01-DEC-2003	05:34:43;	Bright;		41.5;	150;	44Zet Per	;	2.89;	28000;occ;	83;	0;	9163
8;	-3433.2;	01-DEC-2003	05:36:57;	Bright;		39.0;	79;	26Bet Per	;	2.31;	13100;occ;	78;	0;	9163
9;	-3299.9;	01-DEC-2003	05:39:10;	Bright;		38.5;	175;	39Del Per	;	3.01;	19400;occ;	77;	0;	9163
10;	-3219.4;	01-DEC-2003	05:40:31;	Bright;		37.5;	160;	23Gam Per	;	2.93;	4700;occ;	75;	0;	9163
11;	-3080.2;	01-DEC-2003	05:42:50;	Bright;		36.0;	110;	37Del Cas	;	2.68;	8900;occ;	72;	0;	9163
12;	-2616.4;	01-DEC-2003	05:50:34;	Bright;		39.0;	49;	1Alp UMi	;	1.99;	6300;occ;	78;	0;	9163
13;	-2335.8;	01-DEC-2003	05:55:14;	Bright;		35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;	9163
14;	-2215.0;	01-DEC-2003	05:57:15;	Bright;		45.5;	36;	50Alp UMa	;	1.80;	6300;occ;	91;	0;	9163
15;	-2118.3;	01-DEC-2003	05:58:52;	Bright;		47.0;	82;	48Bet UMa	;	2.37;	10600;occ;	94;	0;	9163
16;	-2022.8;	01-DEC-2003	06:00:27;	Bright;		56.0;	32;	77Eps UMa	;	1.76;	11000;occ;	112;	0;	9163
17;	-1898.7;	01-DEC-2003	06:02:31;	Bright;		53.0;	39;	85Eta UMa	;	1.85;	24000;occ;	106;	0;	9163
18;	-1724.9;	01-DEC-2003	06:05:25;	Bright;		52.0;	180;	27Gam Boo	;	3.04;	8000;occ;	104;	0;	9163
19;	-1544.0;	01-DEC-2003	06:08:26;	Bright;		35.5;	83;		;	2.38;	11000;occ;	71;	0;	9163
20;	-1392.6;	01-DEC-2003	06:10:57;	Bright;		35.5;	3;	16Alp Boo	;	-0.05;	4250;occ;	71;	0;	9163
21;	-1177.5;	01-DEC-2003	06:14:32;	Bright;		72.0;	96;	68Del Leo	;	2.56;	9300;occ;	144;	0;	9163
22;	-919.6;	01-DEC-2003	06:18:50;	Bright;		44.5;	121;	29Gam Vir	;	2.74;	7200;occ;	89;	0;	9163
23;	-832.0;	01-DEC-2003	06:20:18;	Bright;		40.0;	15;	67Alp Vir	;	0.98;	28000;occ;	80;	0;	9163
24;	-635.0;	01-DEC-2003	06:23:35;	Dark	;	48.0;	163;	7Del Crv	;	2.94;	11000;occ;	96;	0;	9163
25;	-537.6;	01-DEC-2003	06:25:12;	Dark	;	50.0;	106;	9Bet Crv	;	2.65;	5600;occ;	100;	0;	9163
26;	-416.6;	01-DEC-2003	06:27:13;	Dark	;	42.0;	123;	Iot Cen	;	2.75;	10200;occ;	84;	0;	9163
27;	-174.4;	01-DEC-2003	06:31:16;	Dark	;	40.0;	77;	Eps Cen	;	2.30;	28000;occ;	80;	0;	9163
28;	-75.6;	01-DEC-2003	06:32:54;	Dark	;	39.5;	10;	Bet Cen	;	0.61;	28000;occ;	79;	0;	9163
29;	39.6;	01-DEC-2003	06:34:50;	Dark	;	44.0;	12;	Alp1Cru	;	0.77;	30000;occ;	88;	0;	9164
30;	202.1;	01-DEC-2003	06:37:32;	Dark	;	39.0;	124;	The Car	;	2.76;	30000;occ;	78;	0;	9164
31;	335.6;	01-DEC-2003	06:39:46;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	9164
32;	481.9;	01-DEC-2003	06:42:12;	Dark	;	43.5;	41;	Eps Car	;	1.86;	4100;occ;	87;	0;	9164
33;	601.1;	01-DEC-2003	06:44:11;	Dark	;	52.5;	34;	Gam2Vel	;	1.79;	23000;occ;	105;	0;	9164
34;	803.4;	01-DEC-2003	06:47:33;	Dark	;	51.0;	2;	Alp Car	;	-0.74;	7000;occ;	102;	0;	9164
35;	914.2;	01-DEC-2003	06:49:24;	Dark	;	66.0;	117;	Pi Pup	;	2.71;	3800;occ;	132;	0;	9164
36;	1144.0;	01-DEC-2003	06:53:14;	Dark	;	67.0;	23;	21Eps CMa	;	1.50;	26000;occ;	134;	0;	9164
37;	1273.4;	01-DEC-2003	06:55:23;	Dark	;	75.5;	179;	240mi2CMa	;	3.03;	24000;occ;	151;	0;	9164
38;	1503.1;	01-DEC-2003	06:59:13;	Dark	;	67.0;	47;	2Bet CMa	;	1.98;	28000;occ;	134;	0;	9164
39;	1657.2;	01-DEC-2003	07:01:47;	Dark	;	47.0;	165;	34Gam Eri	;	2.95;	3200;occ;	94;	0;	9164
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2;	-3938.5;	01-DEC-2003	07:09:07;	Dark	;	61.5;	27;	24Gam Ori	;	1.64;	26000;occ;	123;	0;	9164
3;	-3804.3;	01-DEC-2003	07:11:22;	Bright;		57.0;	13;	87Alp Tau	;	0.87;	3800;occ;	114;	0;	9164
4;	-3709.0;	01-DEC-2003	07:12:57;	Bright;		39.0;	146;	25Eta Tau	;	2.87;	15200;occ;	78;	0;	9164
5;	-3566.6;	01-DEC-2003	07:15:19;	Bright;		40.5;	150;	44Zet Per	;	2.89;	28000;occ;	81;	0;	9164
6;	-3432.6;	01-DEC-2003	07:17:33;	Bright;		38.5;	79;	26Bet Per	;	2.31;	13100;occ;	77;	0;	9164
7;	-3299.5;	01-DEC-2003	07:19:46;	Bright;		38.0;	175;	39Del Per	;	3.01;	19400;occ;	76;	0;	9164
8;	-3219.4;	01-DEC-2003	07:21:06;	Bright;		37.0;	160;	23Gam Per	;	2.93;	4700;occ;	74;	0;	9164
9;	-3079.8;	01-DEC-2003	07:23:26;	Bright;		36.0;	110;	37Del Cas	;	2.68;	8900;occ;	72;	0;	9164
10;	-2615.7;	01-DEC-2003	07:31:10;	Bright;		37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	9164
11;	-2335.5;	01-DEC-2003	07:35:50;	Bright;		35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;	9164
12;	-2215.1;	01-DEC-2003	07:37:51;	Bright;		45.0;	36;	50Alp UMa	;	1.80;	6300;occ;	90;	0;	9164
13;	-2118.5;	01-DEC-2003	07:39:27;	Bright;		45.5;	82;	48Bet UMa	;	2.37;	10600;occ;	91;	0;	9164
14;	-2022.4;	01-DEC-2003	07:41:03;	Bright;		40.5;	32;	77Eps UMa	;	1.76;	11000;occ;	81;	0;	9164
15;	-1898.4;	01-DEC-2003	07:43:07;	Bright;		39.5;	39;	85Eta UMa	;	1.85;	24000;occ;	79;	0;	9164
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17;	-1543.4;	01-DEC-2003	07:49:02;	Bright;		36.0;	83;		;	2.38;	11000;occ;	72;	0;	9164
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21;	-831.0;	01-DEC-2003	08:00:55;	Bright;		41.0;	15;	67Alp Vir	;	0.98;	28000;occ;	82;	0;	9164
22;	-634.1;	01-DEC-2003	08:04:12;	Dark	;	48.0;	163;	7Del Crv	;	2.94;	11000;occ;	96;	0;	9164
23;	-536.5;	01-DEC-2003	08:05:49;	Dark	;	49.0;	106;	9Bet Crv	;	2.65;	5600;occ;	98;	0;	9164
24;	-416.0;	01-DEC-2003	08:07:50;	Dark	;	42.5;	123;	Iot Cen	;	2.75;	10200;occ;	85;	0;	9164
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26;	-75.4;	01-DEC-2003	08:13:30;	Dark	;	46.5;	10;	Bet Cen	;	0.61;	28000;occ;	93;	0;	9164

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 28; 202.5; 01-DEC-2003 08:18:08; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9165  
 29; 338.5; 01-DEC-2003 08:20:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9165  
 30; 482.5; 01-DEC-2003 08:22:48; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0; 9165  
 31; 602.2; 01-DEC-2003 08:24:48; Dark ; 53.0; 34; Gam2Vel ; 1.79; 23000;occ; 106; 0; 9165  
 32; 803.4; 01-DEC-2003 08:28:09; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0; 9165  
 33; 915.6; 01-DEC-2003 08:30:02; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0; 9165  
 34; 1144.7; 01-DEC-2003 08:33:51; Dark ; 69.0; 23; 21Eps CMa ; 1.50; 26000;occ; 138; 0; 9165  
 35; 1274.4; 01-DEC-2003 08:36:00; Dark ; 73.5; 179; 240mi2CMa ; 3.03; 24000;occ; 147; 0; 9165  
 36; 1529.7; 01-DEC-2003 08:40:16; Dark ; 100.5; 1; 9Alp CMa ; -1.44; 11000;occ; 201; 0; 9165

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 15; -2119.1; 01-DEC-2003 09:20:03; Bright; 67.0; 82; 48Bet UMa ; 2.37; 10600;occ; 134; 0; 9165  
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 19; -1543.4; 01-DEC-2003 09:29:38; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0; 9165  
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 26; -75.5; 01-DEC-2003 09:54:06; Dark ; 47.0; 10; Bet Cen ; 0.61; 28000;occ; 94; 0; 9165  
 27; 40.6; 01-DEC-2003 09:56:02; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0; 9166  
 28; 203.1; 01-DEC-2003 09:58:45; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0; 9166  
 29; 341.4; 01-DEC-2003 10:01:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9166  
 30; 483.4; 01-DEC-2003 10:03:25; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0; 9166  
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 33; 916.9; 01-DEC-2003 10:10:39; Dark ; 65.5; 117; Pi Pup ; 2.71; 3800;occ; 131; 0; 9166  
 34; 1145.2; 01-DEC-2003 10:14:27; Dark ; 69.5; 23; 21Eps CMa ; 1.50; 26000;occ; 139; 0; 9166  
 35; 1275.0; 01-DEC-2003 10:16:37; Dark ; 75.5; 179; 240mi2CMa ; 3.03; 24000;occ; 151; 0; 9166  
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 12; -2335.2; 01-DEC-2003 10:57:02; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0; 9166  
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27; 203.9; 01-DEC-2003 11:39:22; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9167
28; 344.4; 01-DEC-2003 11:41:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9167
29; 484.2; 01-DEC-2003 11:44:02; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0; 9167
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32; 918.0; 01-DEC-2003 11:51:16; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0; 9167
33; 1146.2; 01-DEC-2003 11:55:04; Dark ; 68.0; 23; 21Eps CMA ; 1.50; 26000;occ; 136; 0; 9167
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