

# GOMOS Daily Report 14-FEB-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	18FEB2004 15:01:01
Data source version	<Any version>
Start time of products	14-FEB-2004 (14FEB2004 00:00:00)
Stop time of products	15-FEB-2004 (15FEB2004 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

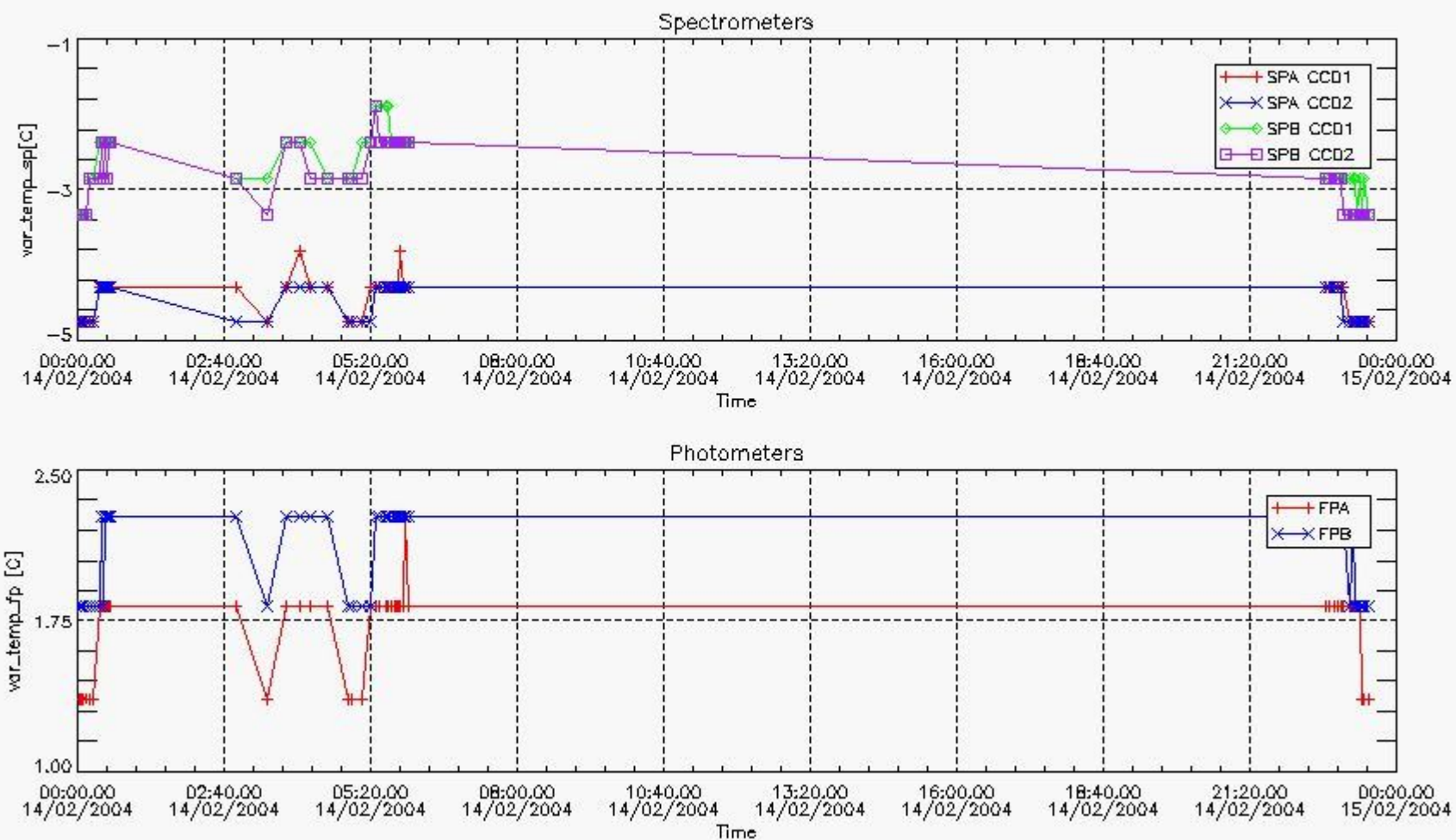
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040214_000209_000000412024_00159_10233_0011.N1	14-FEB-2004 00:02:09	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	10233	No
GOM_TRA_1PNPDE20040214_000400_000000362024_00159_10233_0012.N1	14-FEB-2004 00:04:00	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	10233	No
GOM_TRA_1PNPDE20040214_000617_000000422024_00159_10233_0013.N1	14-FEB-2004 00:06:17	Bright	41.500	5	3Alp Lyr	0.033000	11000.	83	10233	No
GOM_TRA_1PNPDE20040214_000926_000000542024_00159_10233_0014.N1	14-FEB-2004 00:09:26	Bright	53.500	133	40Zet Her	2.8070	6000.0	107	10233	No
GOM_TRA_1PNPDE20040214_001320_000001052024_00159_10233_0015.N1	14-FEB-2004 00:13:20	Dark	105.00	67	5Alp CrB	2.2210	11000.	210	10233	No
GOM_TRA_1PNPDE20040214_001727_000000492024_00159_10233_0016.N1	14-FEB-2004 00:17:27	Bright	49.000	126	60Bet Oph	2.7700	4250.0	98	10233	No
GOM_TRA_1PNPDE20040214_002421_000000432024_00159_10233_0017.N1	14-FEB-2004 00:24:21	Dark	43.000	57	34Sig Sgr	2.0660	26000.	86	10233	No
GOM_TRA_1PNPDE20040214_002705_000000432024_00159_10233_0018.N1	14-FEB-2004 00:27:05	Dark	42.500	38	20Eps Sgr	1.8360	11000.	85	10233	No
GOM_TRA_1PNPDE20040214_002908_000000452024_00159_10233_0019.N1	14-FEB-2004 00:29:08	Dark	45.000	25	35Lam Sco	1.6200	28000.	90	10233	No
GOM_TRA_1PNPDE20040214_003026_000000452024_00159_10233_0020.N1	14-FEB-2004 00:30:26	Dark	45.000	40	The Sco	1.8590	7100.0	90	10233	No
GOM_TRA_1PNPDE20040214_003213_000000412024_00159_10233_0021.N1	14-FEB-2004 00:32:13	Dark	40.500	147	Alp Ara	2.8770	26000.	81	10233	No
GOM_TRA_1PNPDE20040214_003341_000000412024_00159_10233_0022.N1	14-FEB-2004 00:33:41	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	10233	No
GOM_TRA_1PNPDE20040214_003535_000000492024_00160_10234_0023.N1	14-FEB-2004 00:35:35	Dark	48.500	131	Gam Lup	2.8000	26000.	97	10234	No
GOM_TRA_1PNPDE20040214_025246_000000402024_00161_10235_0002.N1	14-FEB-2004 02:52:46	Bright	40.000	44	24Gam Gem	1.9280	11000.	80	10235	No
GOM_TRA_1PNPDE20040214_032730_000000402024_00161_10235_0012.N1	14-FEB-2004 03:27:30	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	10235	No
GOM_TRA_1PNPDE20040214_034817_000000452024_00161_10235_0017.N1	14-FEB-2004 03:48:17	Dark	44.500	38	20Eps Sgr	1.8360	11000.	89	10235	No
GOM_TRA_1PNPDE20040214_040217_000000492024_00162_10236_0024.N1	14-FEB-2004 04:02:17	Dark	48.500	10	Bet Cen	0.61000	28000.	97	10236	No
GOM_TRA_1PNPDE20040214_041437_000000412024_00162_10236_0030.N1	14-FEB-2004 04:14:37	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	10236	No
GOM_TRA_1PNPDE20040214_043324_000000402024_00162_10236_0002.N1	14-FEB-2004 04:33:24	Bright	39.500	44	24Gam Gem	1.9280	11000.	79	10236	No
GOM_TRA_1PNPDE20040214_045523_000000422024_00162_10236_0008.N1	14-FEB-2004 04:55:23	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	10236	No
GOM_TRA_1PNPDE20040214_050003_000000392024_00162_10236_0009.N1	14-FEB-2004 05:00:03	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	10236	No
GOM_TRA_1PNPDE20040214_051114_000000562024_00162_10236_0013.N1	14-FEB-2004 05:11:14	Bright	56.000	133	40Zet Her	2.8070	6000.0	112	10236	No
GOM_TRA_1PNPDE20040214_051917_000000502024_00162_10236_0015.N1	14-FEB-2004 05:19:17	Dark	49.500	126	60Bet Oph	2.7700	4250.0	99	10236	No
GOM_TRA_1PNPDE20040214_052611_000000392024_00162_10236_0016.N1	14-FEB-2004 05:26:11	Dark	39.000	57	34Sig Sgr	2.0660	26000.	78	10236	No
GOM_TRA_1PNPDE20040214_052855_000000452024_00162_10236_0017.N1	14-FEB-2004 05:28:55	Dark	45.000	38	20Eps Sgr	1.8360	11000.	90	10236	No
GOM_TRA_1PNPDE20040214_053727_000000482024_00163_10237_0022.N1	14-FEB-2004 05:37:27	Dark	48.000	131	Gam Lup	2.8000	26000.	96	10237	No
GOM_TRA_1PNPDE20040214_053910_000000452024_00163_10237_0023.N1	14-FEB-2004 05:39:10	Dark	44.500	43	Alp TrA	1.9100	4250.0	89	10237	No
GOM_TRA_1PNPDE20040214_054254_000000542024_00163_10237_0024.N1	14-FEB-2004 05:42:54	Dark	54.000	10	Bet Cen	0.61000	28000.	108	10237	No
GOM_TRA_1PNPDE20040214_054602_000000502024_00163_10237_0025.N1	14-FEB-2004 05:46:02	Dark	50.000	12	Alp1Cru	0.77500	30000.	100	10237	No
GOM_TRA_1PNPDE20040214_054734_000000492024_00163_10237_0026.N1	14-FEB-2004 05:47:34	Dark	48.500	64	Gam Cen	2.2000	10600.	97	10237	No
GOM_TRA_1PNPDE20040214_054918_000000392024_00163_10237_0027.N1	14-FEB-2004 05:49:18	Dark	38.500	159	Ups Car	2.9200	7200.0	77	10237	No
GOM_TRA_1PNPDE20040214_055112_000000392024_00163_10237_0028.N1	14-FEB-2004 05:51:12	Dark	39.000	71	lot Car	2.2460	7700.0	78	10237	No
GOM_TRA_1PNPDE20040214_055514_000000412024_00163_10237_0030.N1	14-FEB-2004 05:55:14	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	10237	No
GOM_TRA_1PNPDE20040214_055719_000000402024_00163_10237_0031.N1	14-FEB-2004 05:57:19	Dark	40.000	70	Zet Pup	2.2460	39000.	80	10237	No
GOM_TRA_1PNPDE20040214_060040_000000402024_00163_10237_0032.N1	14-FEB-2004 06:00:40	Dark	40.000	88	31Eta CMa	2.4480	20000.	80	10237	No
GOM_TRA_1PNPDE20040214_224318_000000412024_00173_10247_0000.N1	14-FEB-2004 22:43:18	Dark	41.000	70	Zet Pup	2.2460	39000.	82	10247	No
GOM_TRA_1PNPDE20040214_224713_000001052024_00173_10247_0001.N1	14-FEB-2004 22:47:13	Dark	105.00	100	4Gam Crv	2.5800	13100.	210	10247	No
GOM_TRA_1PNPDE20040214_225132_000000542024_00173_10247_0002.N1	14-FEB-2004 22:51:32	Dark	54.000	48	30Alp Hya	1.9770	4100.0	108	10247	No
GOM_TRA_1PNPDE20040214_225602_000000512024_00173_10247_0003.N1	14-FEB-2004 22:56:02	Dark	51.000	8	10Alp CMi	0.40000	6500.0	102	10247	No
GOM_TRA_1PNPDE20040214_225910_000000542024_00173_10247_0004.N1	14-FEB-2004 22:59:10	Bright	54.000	22	32Alp Leo	1.3600	15200.	108	10247	No
GOM_TRA_1PNPDE20040214_230222_000000392024_00173_10247_0005.N1	14-FEB-2004 23:02:22	Bright	39.000	17	78Bet Gem	1.1610	4500.0	78	10247	No
GOM_TRA_1PNPDE20040214_230825_000000392024_00173_10247_0006.N1	14-FEB-2004 23:08:25	Bright	38.500	42	34Bet Aur	1.9000	10200.	77	10247	No
GOM_TRA_1PNPDE20040214_231234_000000542024_00173_10247_0007.N1	14-FEB-2004 23:12:34	Bright	54.000	174	52Psi UMa	3.0040	4400.0	108	10247	No
GOM_TRA_1PNPDE20040214_231422_000000472024_00173_10247_0008.N1	14-FEB-2004 23:14:22	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	10247	No
GOM_TRA_1PNPDE20040214_231636_000000492024_00173_10247_0009.N1	14-FEB-2004 23:16:36	Bright	48.500	87	64Gam UMa	2.4330	11000.	97	10247	No
GOM_TRA_1PNPDE20040214_231945_000000372024_00173_10247_0010.N1	14-FEB-2004 23:19:45	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	10247	No
GOM_TRA_1PNPDE20040214_232155_000000412024_00173_10247_0011.N1	14-FEB-2004 23:21:55	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	10247	No
GOM_TRA_1PNPDE20040214_232444_000000672024_00173_10247_0012.N1	14-FEB-2004 23:24:44	Bright	66.500	39	85Eta UMa	1.8540	24000.	133	10247	No
GOM_TRA_1PNPDE20040214_233031_000000422024_00173_10247_0013.N1	14-FEB-2004 23:30:31	Bright	42.000	130	23Bet Dra	2.7990	5800.0	84	10247	No

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



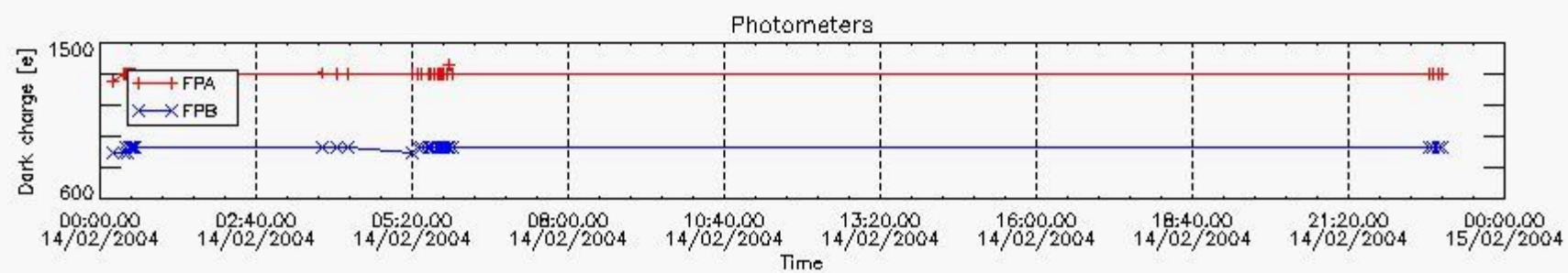
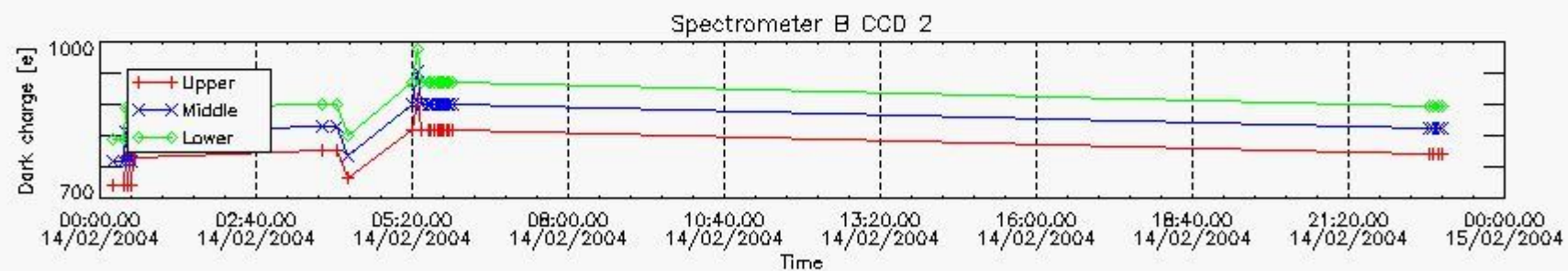
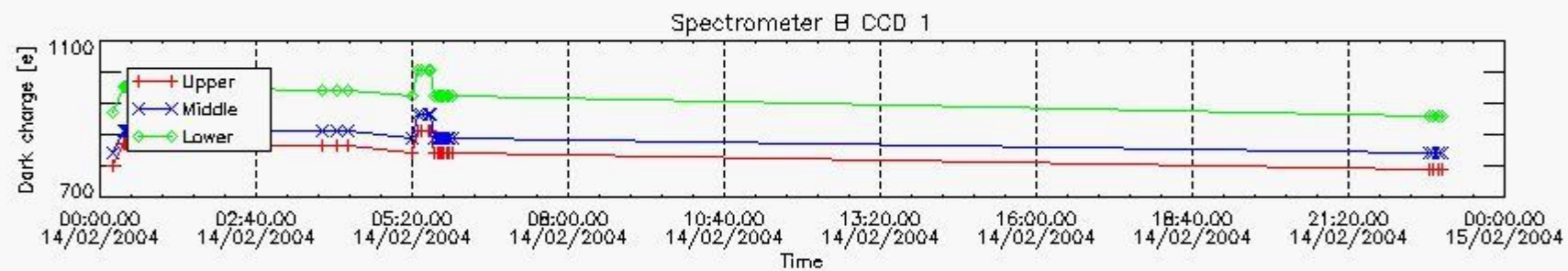
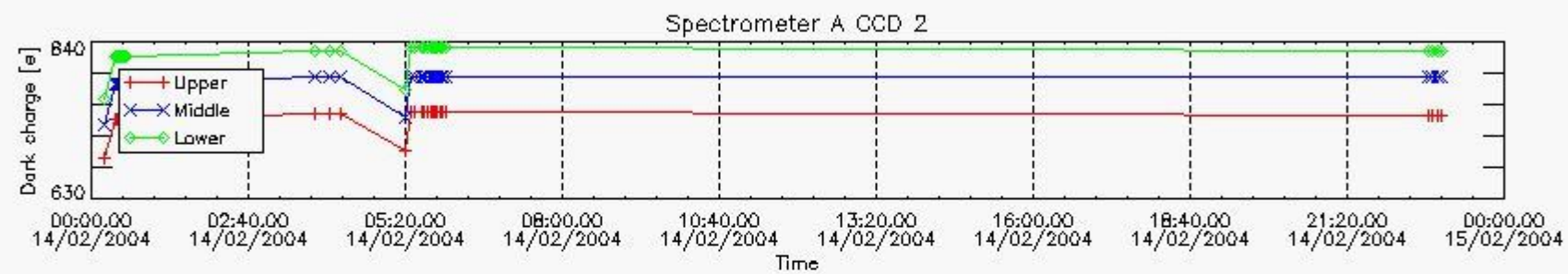
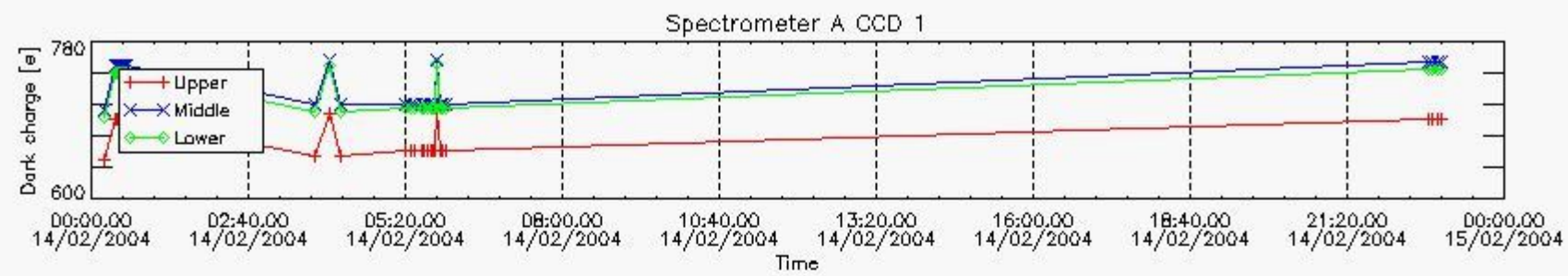
#### 4. Overview of dark signal processing per product

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



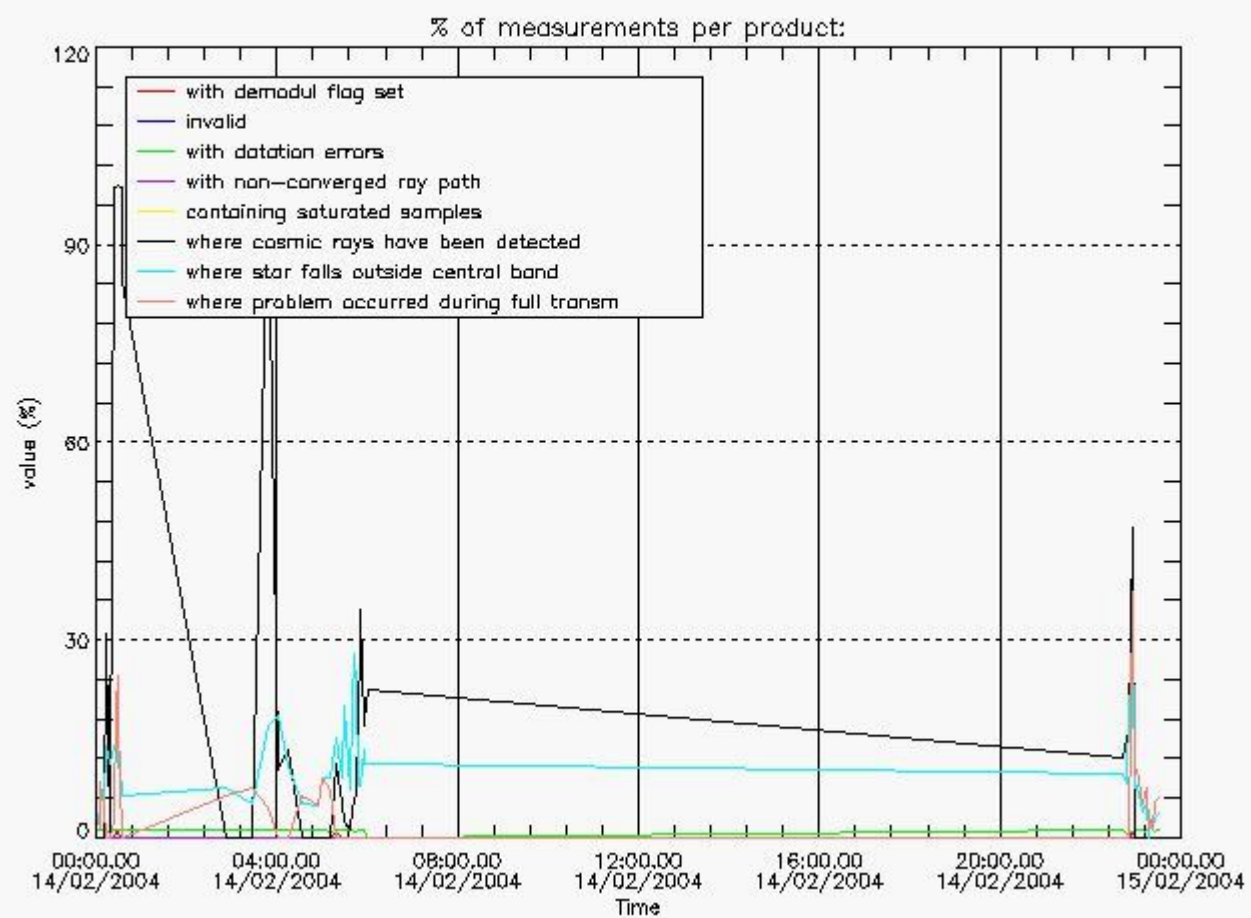
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	22.4490 %
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



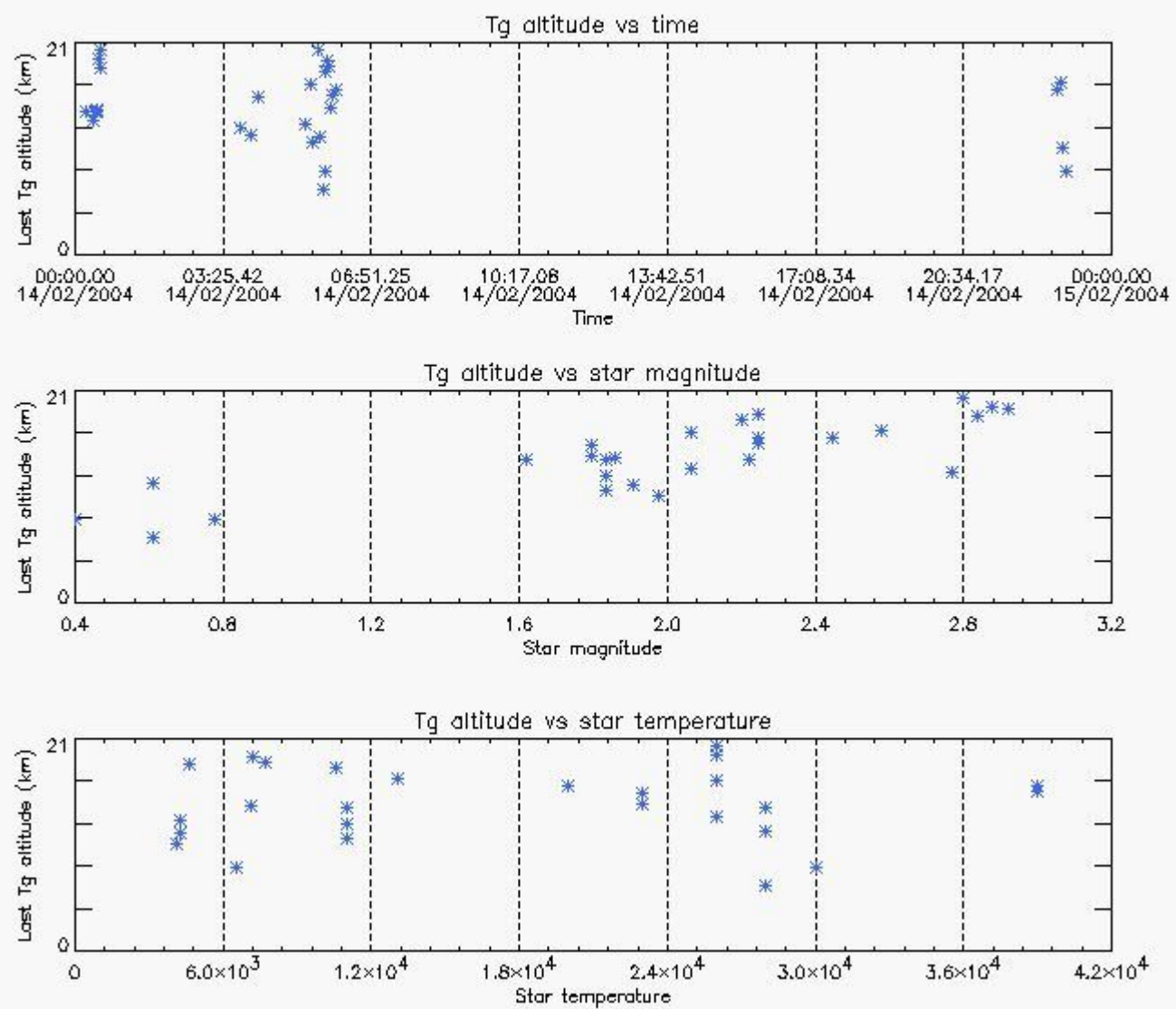
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.670	20.707
St. deviation:	3.7033	3.2487
Maximum:	20.294	27.346
Minimum:	6.4927	14.280
Number of data:	28.000	21.000

### 6.2 Plot for DARK limb products

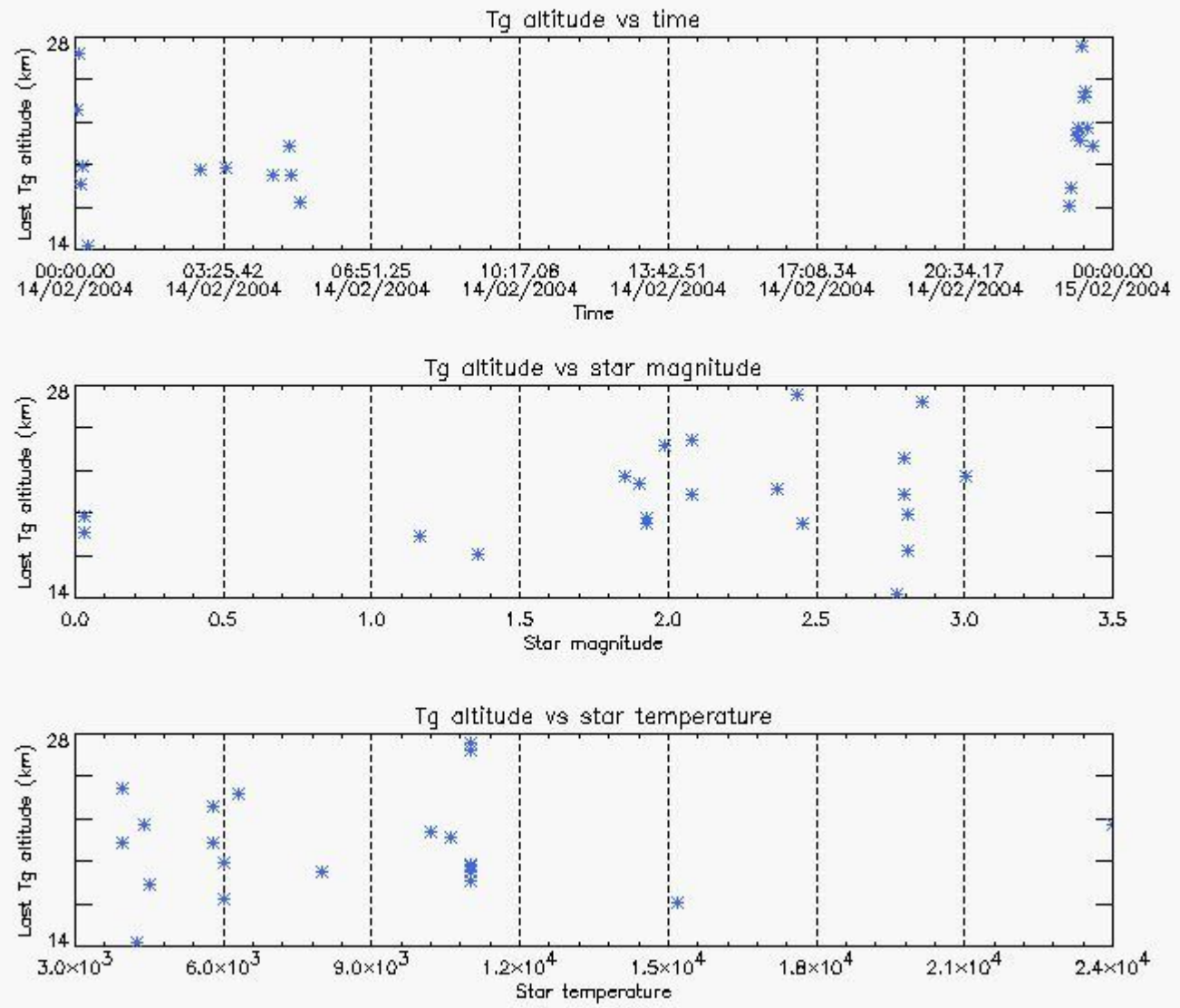
Tangent altitude at which the star is lost



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

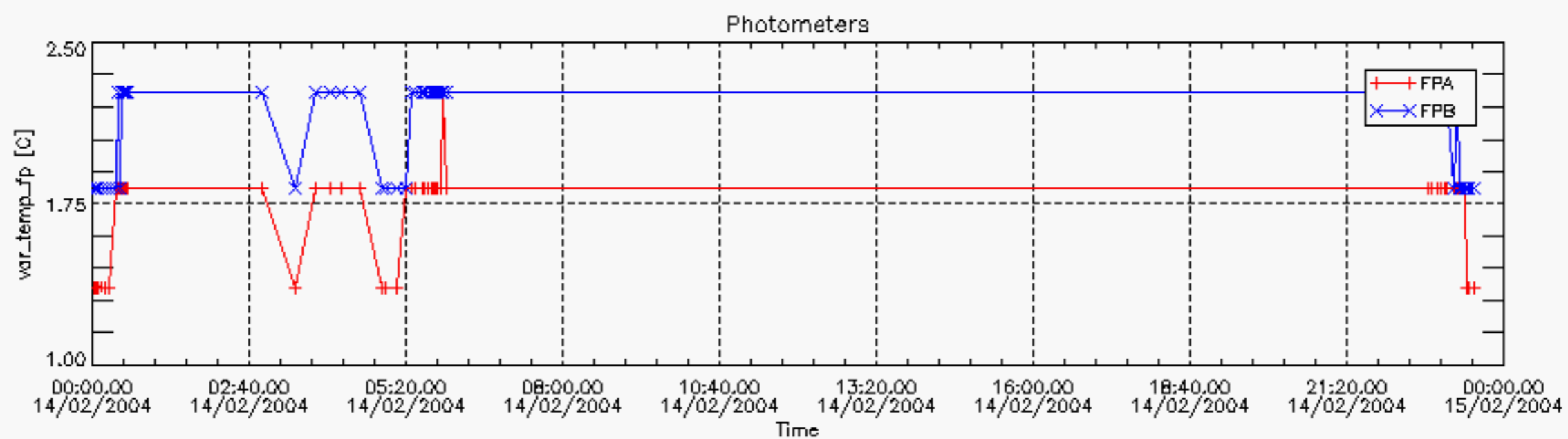
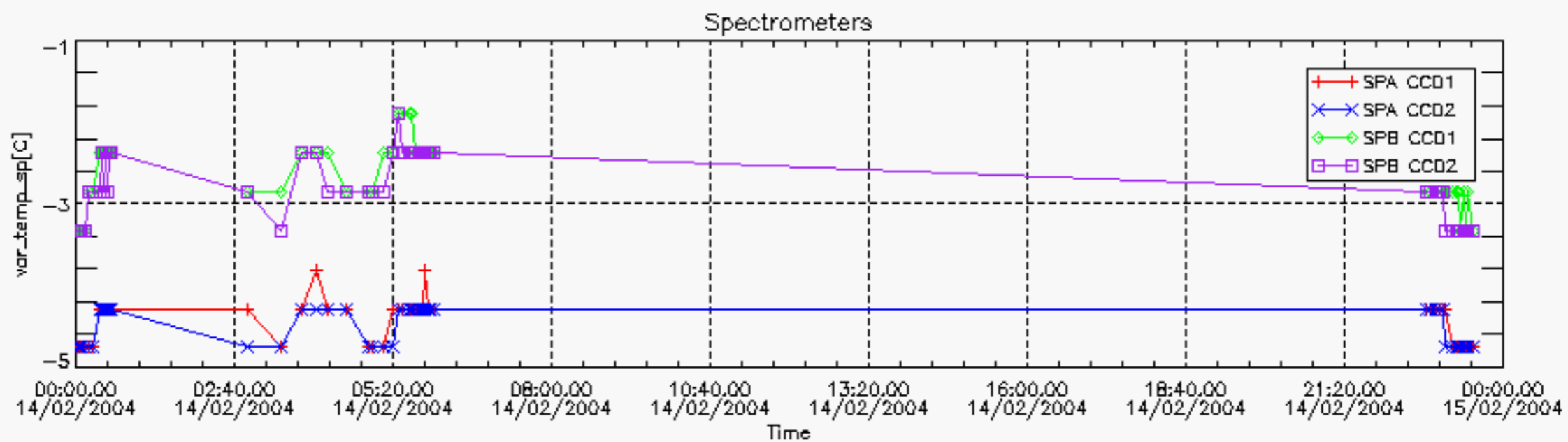
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

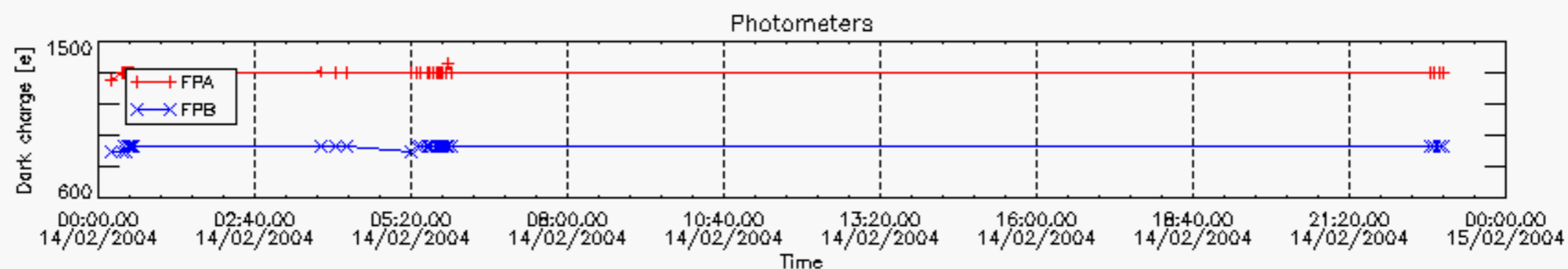
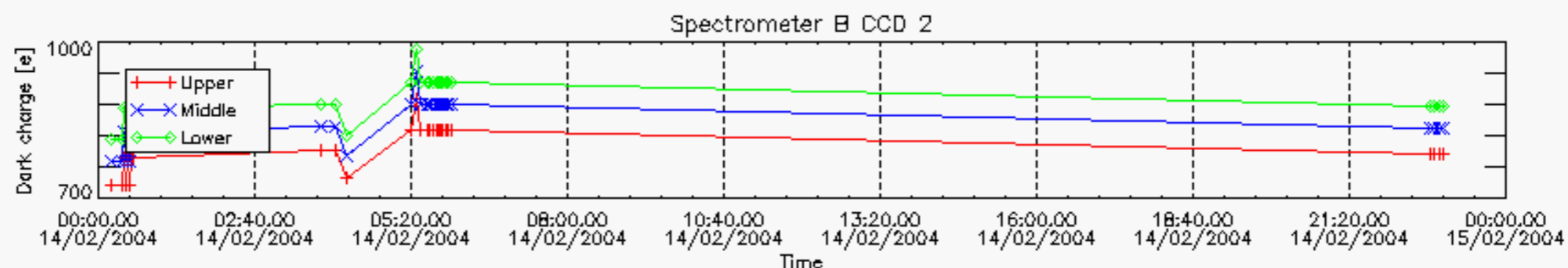
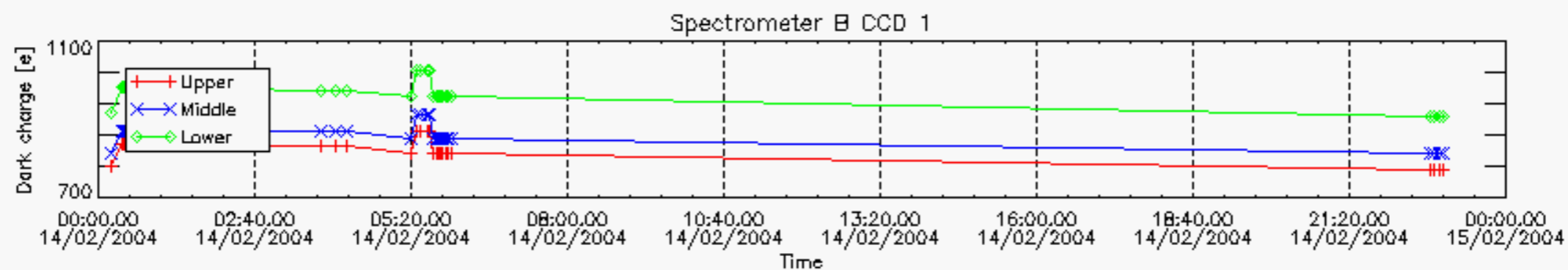
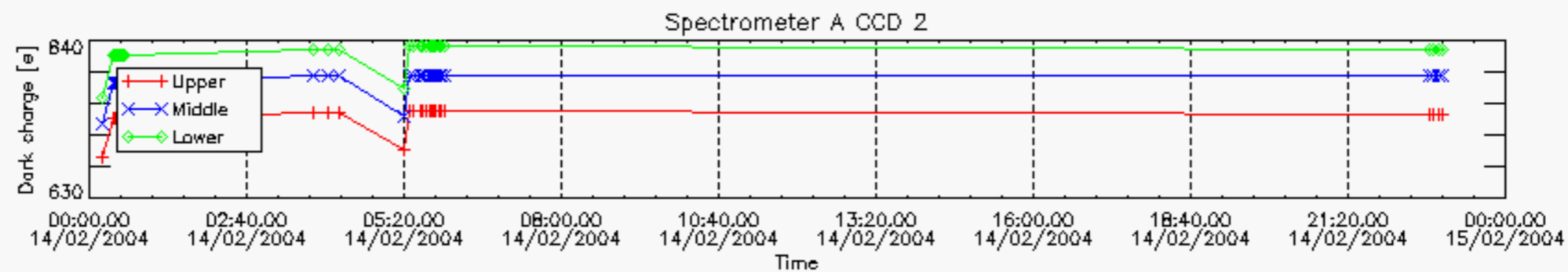
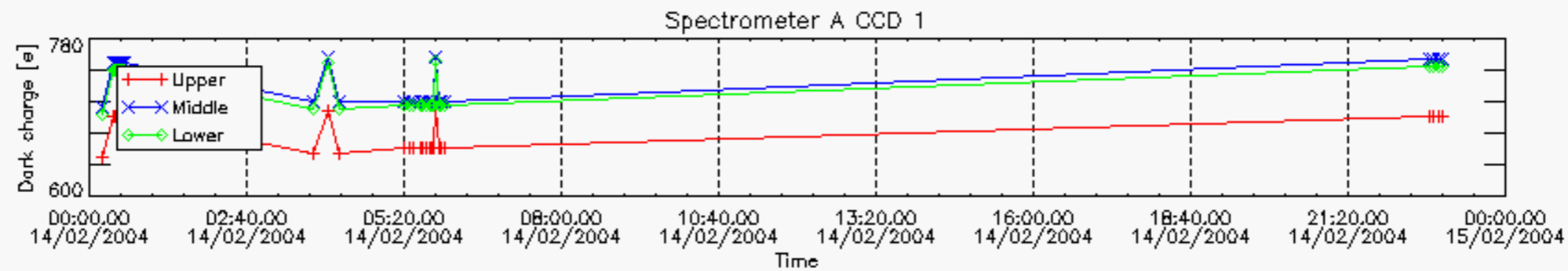
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.9	1446.9	1461.2	1448.3
St. deviation:	6.0824	8.9391	6.4285	8.6755
Maximum:	1688.0	1581.0	1508.0	1503.0
Minimum:	1456.0	1428.0	1441.0	1416.0
Number of data:	33550.	33550.	25250.	25250.

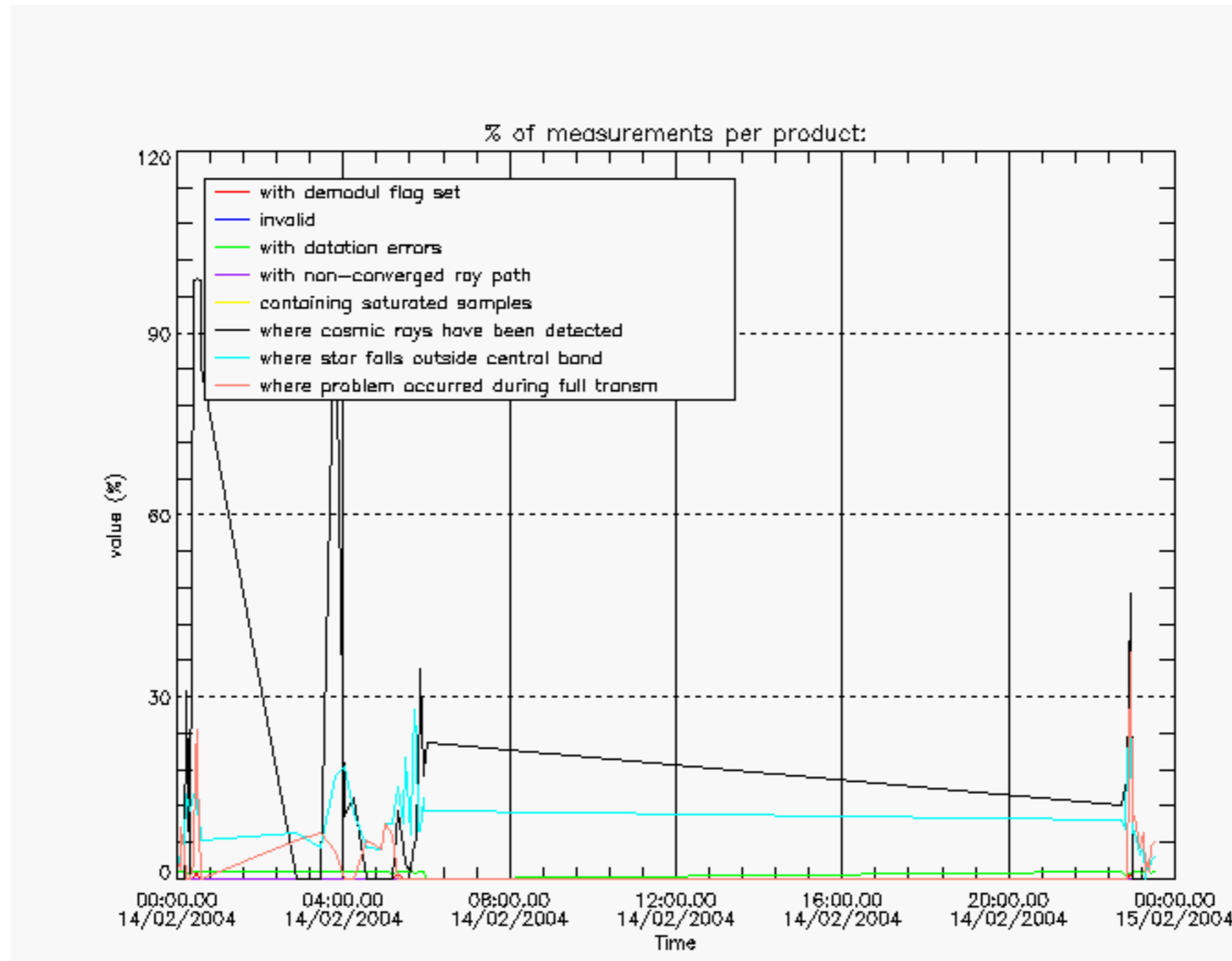




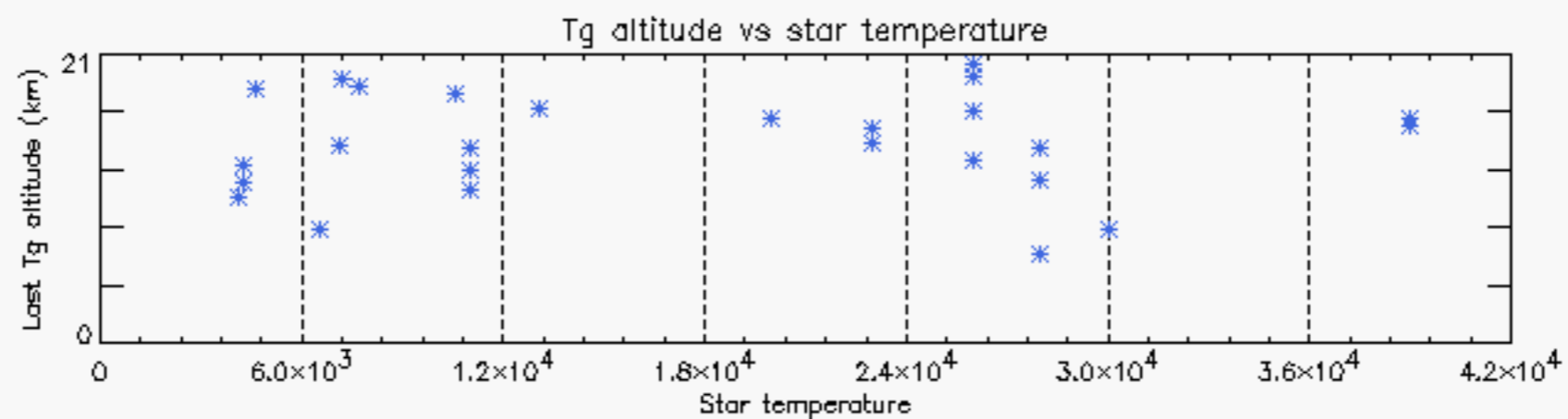
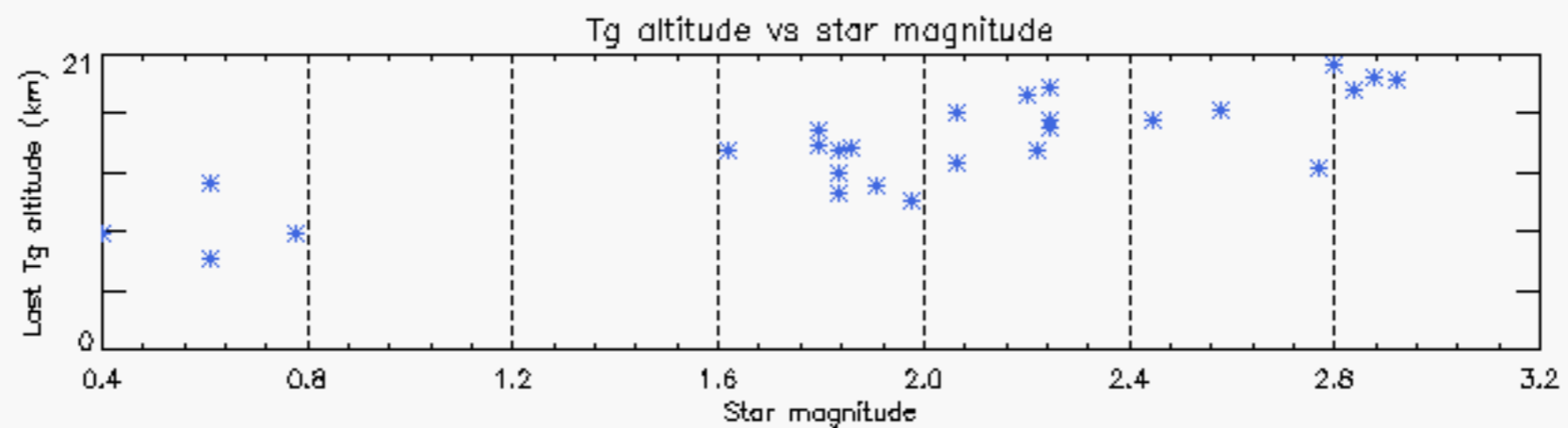
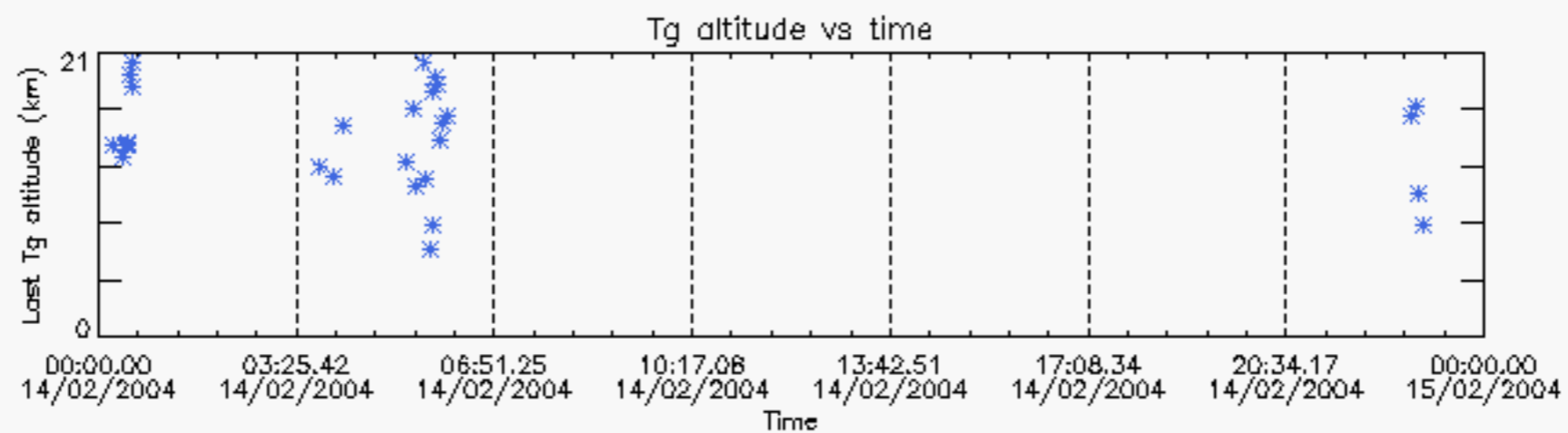




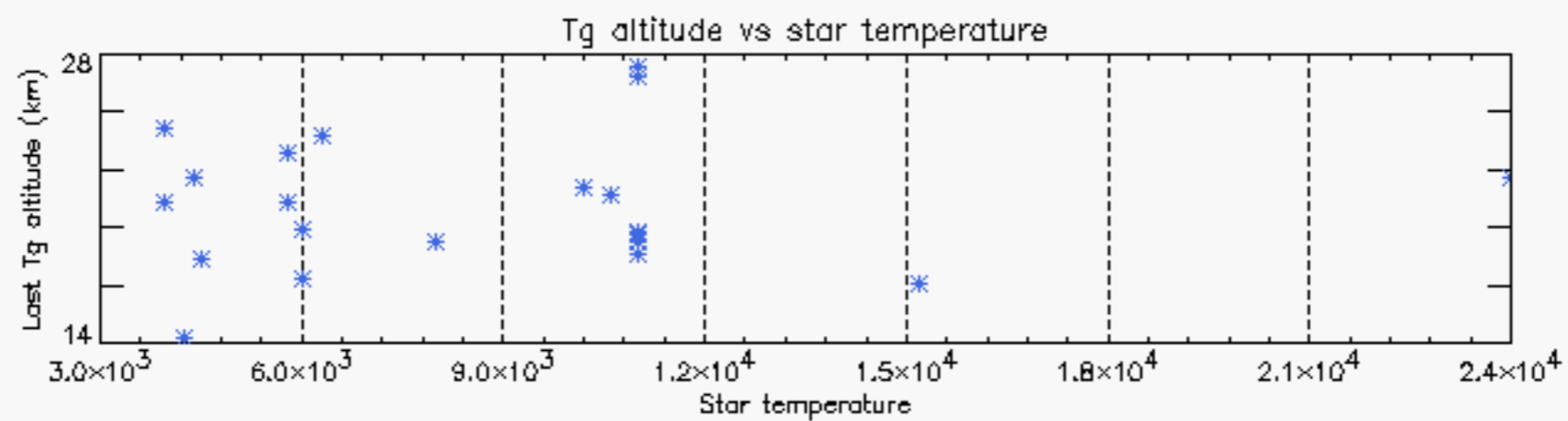
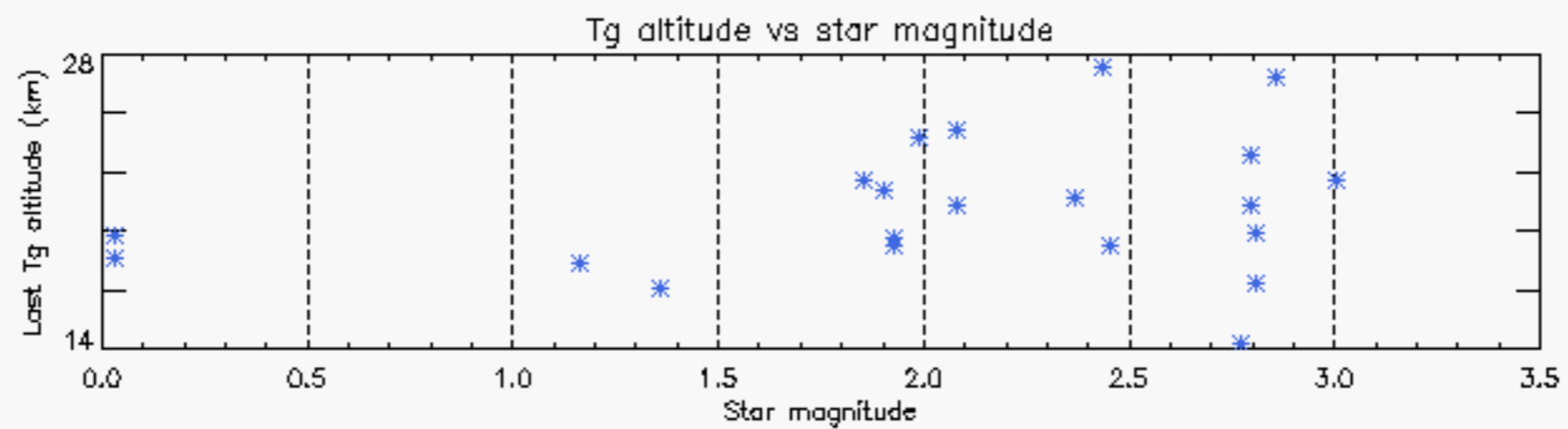
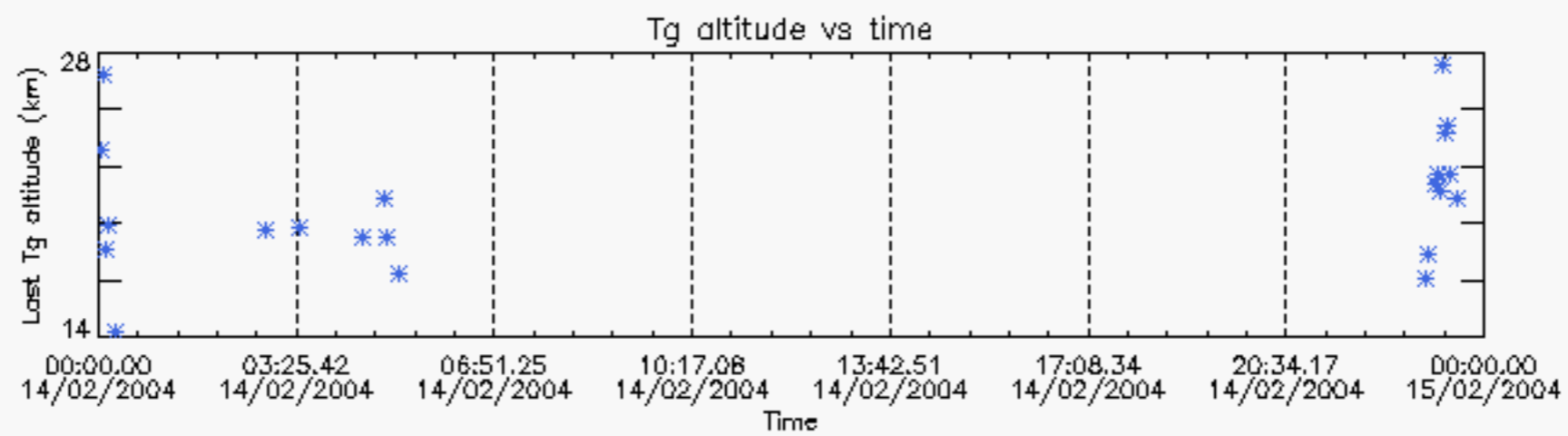




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4\_2/GOMOS/level0/GOM\_NL\_0PNPDK20040201\_061239\_000061992023\_00478\_10051\_0894.N1

1; -4392.0; 01-FEB-2004 06:12:39; Dark ; 48.5; 1; 9Alp CMa ; -1.44; 11000;occ; 97; 0;10051  
 2; -4292.9; 01-FEB-2004 06:14:18; Dark ; 69.5; 48; 30Alp Hya ; 1.98; 4100;occ; 139; 0;10051  
 3; -4044.3; 01-FEB-2004 06:18:27; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;10051  
 4; -3950.7; 01-FEB-2004 06:20:00; Bright; 50.5; 14; 58Alp Ori ; 0.87; 3000;occ; 101; 0;10051  
 5; -3838.1; 01-FEB-2004 06:21:53; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;10051  
 6; -3728.1; 01-FEB-2004 06:23:43; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;10051  
 7; -3642.3; 01-FEB-2004 06:25:09; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;10051  
 8; -3470.2; 01-FEB-2004 06:28:01; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;10051  
 9; -3344.7; 01-FEB-2004 06:30:06; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;10051  
 10; -2779.1; 01-FEB-2004 06:39:32; Bright; 50.5; 82; 48Bet UMa ; 2.37; 10600;occ; 101; 0;10051  
 11; -2609.3; 01-FEB-2004 06:42:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;10051  
 12; -2423.0; 01-FEB-2004 06:45:28; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;10051  
 13; -2302.7; 01-FEB-2004 06:47:28; Bright; 63.5; 55; 79Zet UMa ; 2.06; 10200;occ; 127; 0;10051  
 14; -2140.4; 01-FEB-2004 06:50:11; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;10051  
 15; -1950.4; 01-FEB-2004 06:53:20; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;10051  
 16; -1732.9; 01-FEB-2004 06:56:58; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;10051  
 17; -1550.9; 01-FEB-2004 07:00:00; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;10051  
 18; -1305.5; 01-FEB-2004 07:04:05; Bright; 98.5; 83; ; 2.38; 11000;occ; 197; 0;10051  
 19; -1113.1; 01-FEB-2004 07:07:18; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;10051  
 20; -902.4; 01-FEB-2004 07:10:48; Dark ; 70.0; 102; 24Alp Ser ; 2.60; 4250;occ; 140; 0;10051  
 21; -724.8; 01-FEB-2004 07:13:46; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;10051  
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11;	-2431.2;	03-FEB-2004	12:24:29;	Bright;	;	37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	10083
12;	-2327.9;	03-FEB-2004	12:26:12;	Bright;	;	54.5;	55;	79Zet UMA	;	2.06;	10200;occ;	109;	0;	10083
13;	-2147.4;	03-FEB-2004	12:29:13;	Bright;	;	41.0;	119;	14Eta Dra	;	2.73;	4700;occ;	82;	0;	10083
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16;	-1546.5;	03-FEB-2004	12:39:14;	Bright;	;	44.5;	133;	40Zet Her	;	2.81;	6000;occ;	89;	0;	10083
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28;	485.2;	03-FEB-2004	13:13:05;	Dark	;	40.5;	12;	Alp1Cru	;	0.77;	30000;occ;	81;	0;	10084
29;	687.5;	03-FEB-2004	13:16:28;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	10084
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31;	1085.2;	03-FEB-2004	13:23:06;	Dark	;	43.5;	34;	Gam2Vel	;	1.79;	23000;occ;	87;	0;	10084
32;	1210.5;	03-FEB-2004	13:25:11;	Dark	;	38.5;	70;	Zet Pup	;	2.25;	39000;occ;	77;	0;	10084
33;	1290.4;	03-FEB-2004	13:26:31;	Dark	;	48.0;	117;	Pi Pup	;	2.71;	3800;occ;	96;	0;	10084
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7;	-3462.2;	03-FEB-2004	13:47:54;	Bright;	;	37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	10084
8;	-3338.7;	03-FEB-2004	13:49:58;	Bright;	;	37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	10084
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25;	-197.7;	06-FEB-2004	14:48:03;	Dark	;	40.0;	147;	Alp Ara	;	2.88;	26000;occ;	80;	0;	10127
26;	122.2;	06-FEB-2004	14:53:23;	Dark	;	42.5;	43;	Alp TrA	;	1.91;	4250;occ;	85;	0;	10128
27;	282.7;	06-FEB-2004	14:56:04;	Dark	;	58.5;	0;		;	0.00;	0;occ;	117;	0;	10128
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32;	1095.1;	06-FEB-2004	15:09:36;	Dark	;	41.5;	34;	Gam2Vel	;	1.79;	23000;occ;	83;	0;	10128
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4;	-4378.2;	06-FEB-2004	15:18:59;	Dark	;	49.5;	1;	9Alp CMa	;	-1.44;	11000;occ;	99;	0;	10128
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7;	-3710.8;	06-FEB-2004	15:30:06;	Bright;		41.0;	151;	13Mu Gem	;	2.89;	3000;occ;	82;	0;	10128
8;	-3587.6;	06-FEB-2004	15:32:10;	Bright;		40.0;	24;	66Alp Gem	;	1.58;	10200;occ;	80;	0;	10128
9;	-3449.8;	06-FEB-2004	15:34:27;	Bright;		37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	10128
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11;	-2842.2;	06-FEB-2004	15:44:35;	Bright;		49.0;	82;	48Bet UMa	;	2.37;	10600;occ;	98;	0;	10128
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13;	-2442.8;	06-FEB-2004	15:51:14;	Bright;		42.0;	60;	7Bet UMi	;	2.08;	3950;occ;	84;	0;	10128
14;	-2222.7;	06-FEB-2004	15:54:54;	Bright;		38.0;	89;	5Alp Cep	;	2.45;	8000;occ;	76;	0;	10128
15;	-1953.8;	06-FEB-2004	15:59:23;	Bright;		43.0;	130;	23Bet Dra	;	2.80;	5800;occ;	86;	0;	10128
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21;	-643.9;	06-FEB-2004	16:21:13;	Dark	;	45.5;	137;	22Lam Sgr	;	2.82;	4400;occ;	91;	0;	10128
22;	-565.6;	06-FEB-2004	16:22:32;	Dark	;	44.5;	116;	19Del Sgr	;	2.70;	4100;occ;	89;	0;	10128
23;	-495.8;	06-FEB-2004	16:23:41;	Dark	;	42.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	85;	0;	10128
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26;	-197.3;	06-FEB-2004	16:28:40;	Dark	;	40.5;	147;	Alp Ara	;	2.88;	26000;occ;	81;	0;	10128
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31;	697.4;	06-FEB-2004	16:43:35;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	10129
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4;	-4591.1;	06-FEB-2004	16:56:02;	Dark	;	43.5;	23;	21Eps CMa	;	1.50;	26000;occ;	87;	0;	10129
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13;	-2842.9;	06-FEB-2004	17:25:10;	Bright;		49.0;	82;	48Bet UMa	;	2.37;	10600;occ;	98;	0;	10129
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