

# GOMOS Daily Report 29-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	02MAR2004 15:58:57
Data source version	<Any version>
Start time of products	29-FEB-2004 (29FEB2004 00:00:00)
Stop time of products	01-MAR-2004 (01MAR2004 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

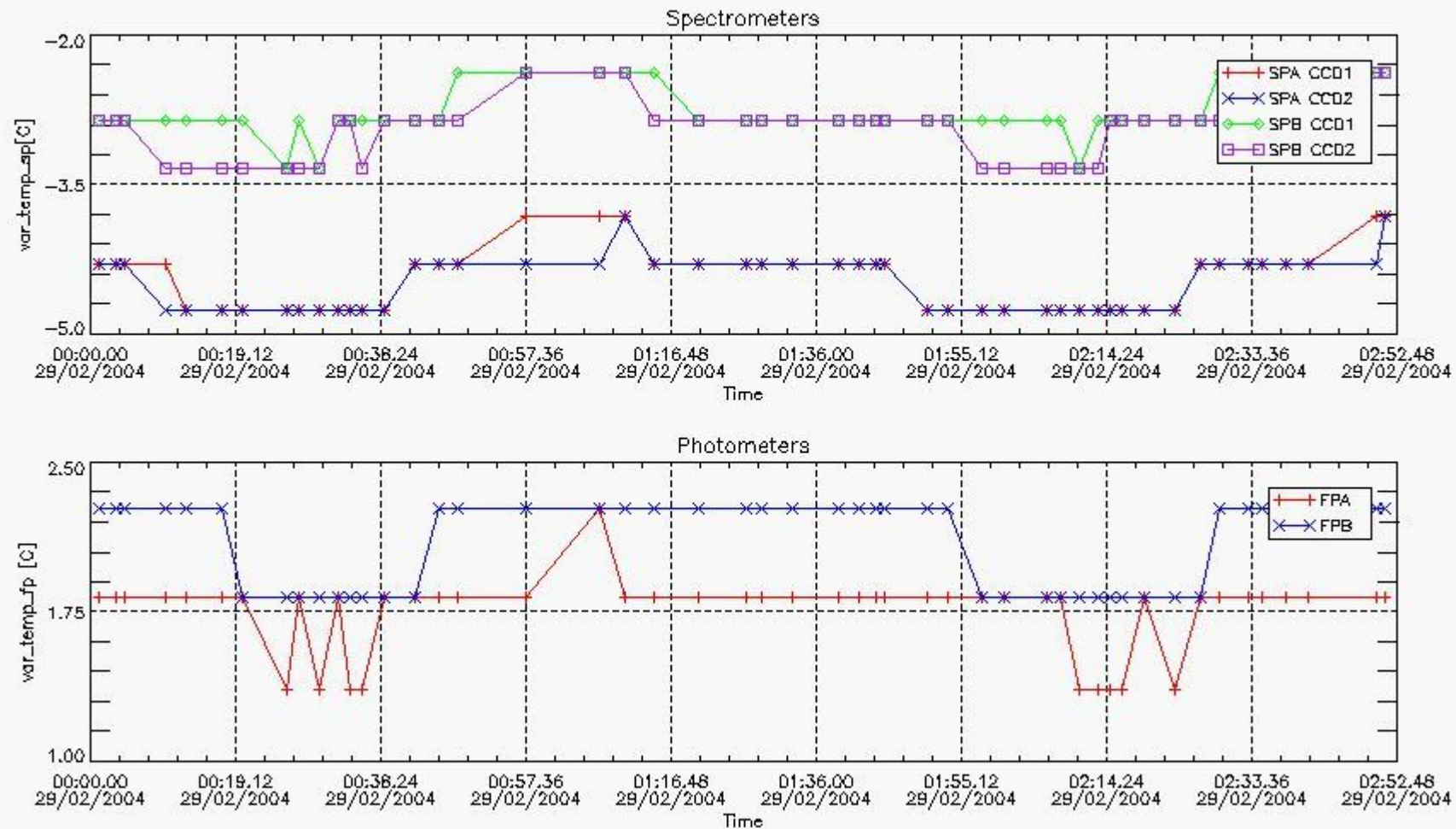
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040229_000102_000000462024_00374_10448_0004.N1	29-FEB-2004 00:01:02	Bright	46.000	51	41Gam1Leo	2.0100	4500.0	92	10448	No
GOM_TRA_1PNPDE20040229_000319_000000392024_00374_10448_0005.N1	29-FEB-2004 00:03:19	Bright	39.000	17	78Bet Gem	1.1610	4500.0	78	10448	No
GOM_TRA_1PNPDE20040229_000430_000000422024_00374_10448_0006.N1	29-FEB-2004 00:04:30	Bright	41.500	24	66Alp Gem	1.5800	10200.	83	10448	No
GOM_TRA_1PNPDE20040229_001001_000000452024_00374_10448_0007.N1	29-FEB-2004 00:10:01	Bright	45.000	174	52Psi UMa	3.0040	4400.0	90	10448	No
GOM_TRA_1PNPDE20040229_001244_000000432024_00374_10448_0008.N1	29-FEB-2004 00:12:44	Bright	42.500	82	48Bet UMa	2.3650	10600.	85	10448	No
GOM_TRA_1PNPDE20040229_001722_000000522024_00374_10448_0009.N1	29-FEB-2004 00:17:22	Bright	52.000	32	77Eps UMa	1.7630	11000.	104	10448	No
GOM_TRA_1PNPDE20040229_002009_000000372024_00374_10448_0010.N1	29-FEB-2004 00:20:09	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	10448	No
GOM_TRA_1PNPDE20040229_002555_000000482024_00374_10448_0011.N1	29-FEB-2004 00:25:55	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	10448	No
GOM_TRA_1PNPDE20040229_002739_000000372024_00374_10448_0012.N1	29-FEB-2004 00:27:39	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	10448	No
GOM_TRA_1PNPDE20040229_003016_000000482024_00374_10448_0013.N1	29-FEB-2004 00:30:16	Bright	48.000	130	23Bet Dra	2.7990	5800.0	96	10448	No
GOM_TRA_1PNPDE20040229_003244_000000362024_00374_10448_0014.N1	29-FEB-2004 00:32:44	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	10448	No
GOM_TRA_1PNPDE20040229_003418_000000362024_00374_10448_0015.N1	29-FEB-2004 00:34:18	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	10448	No
GOM_TRA_1PNPDE20040229_003551_000000362024_00374_10448_0016.N1	29-FEB-2004 00:35:51	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	10448	No
GOM_TRA_1PNPDE20040229_003851_000000812024_00374_10448_0017.N1	29-FEB-2004 00:38:51	Bright	80.500	133	40Zet Her	2.8070	6000.0	161	10448	No
GOM_TRA_1PNPDE20040229_004251_000000422024_00374_10448_0018.N1	29-FEB-2004 00:42:51	Bright	41.500	168	17Zet Aql	2.9860	11000.	83	10448	No
GOM_TRA_1PNPDE20040229_004606_000000702024_00374_10448_0019.N1	29-FEB-2004 00:46:06	Dark	70.000	59	55Alp Oph	2.0800	8900.0	140	10448	No
GOM_TRA_1PNPDE20040229_004838_000000662024_00374_10448_0020.N1	29-FEB-2004 00:48:38	Dark	65.500	126	60Bet Oph	2.7700	4250.0	131	10448	No
GOM_TRA_1PNPDE20040229_005732_000000462024_00374_10448_0023.N1	29-FEB-2004 00:57:32	Dark	46.000	38	20Eps Sgr	1.8360	11000.	92	10448	No
GOM_TRA_1PNPDE20040229_010715_000000432024_00375_10449_0025.N1	29-FEB-2004 01:07:15	Dark	43.000	43	Alp TrA	1.9100	4250.0	86	10449	No
GOM_TRA_1PNPDE20040229_011041_000000552024_00375_10449_0026.N1	29-FEB-2004 01:10:41	Dark	54.500	4	Alp1Cen	-0.010000	5800.0	109	10449	No
GOM_TRA_1PNPDE20040229_011436_000000492024_00375_10449_0028.N1	29-FEB-2004 01:14:36	Dark	49.000	12	Alp1Cru	0.77500	30000.	98	10449	No
GOM_TRA_1PNPDE20040229_012021_000000422024_00375_10449_0031.N1	29-FEB-2004 01:20:21	Dark	42.000	46	Del Vel	1.9540	10600.	84	10449	No
GOM_TRA_1PNPDE20040229_012638_000000632024_00375_10449_0000.N1	29-FEB-2004 01:26:38	Dark	63.000	171	2Eps Crv	3.0010	4250.0	126	10449	No
GOM_TRA_1PNPDE20040229_012848_000000712024_00375_10449_0001.N1	29-FEB-2004 01:28:48	Dark	71.000	100	4Gam Crv	2.5800	13100.	142	10449	No
GOM_TRA_1PNPDE20040229_013245_000000512024_00375_10449_0002.N1	29-FEB-2004 01:32:45	Dark	50.500	48	30Alp Hya	1.9770	4100.0	101	10449	No
GOM_TRA_1PNPDE20040229_013859_000000432024_00375_10449_0003.N1	29-FEB-2004 01:38:59	Bright	42.500	22	32Alp Leo	1.3600	15200.	85	10449	No
GOM_TRA_1PNPDE20040229_014137_000000462024_00375_10449_0004.N1	29-FEB-2004 01:41:37	Bright	46.000	51	41Gam1Leo	2.0100	4500.0	92	10449	No
GOM_TRA_1PNPDE20040229_014355_000000382024_00375_10449_0005.N1	29-FEB-2004 01:43:55	Bright	38.000	17	78Bet Gem	1.1610	4500.0	76	10449	No
GOM_TRA_1PNPDE20040229_014508_000000392024_00375_10449_0006.N1	29-FEB-2004 01:45:08	Bright	38.500	24	66Alp Gem	1.5800	10200.	77	10449	No
GOM_TRA_1PNPDE20040229_015037_000000452024_00375_10449_0007.N1	29-FEB-2004 01:50:37	Bright	44.500	174	52Psi UMa	3.0040	4400.0	89	10449	No
GOM_TRA_1PNPDE20040229_015320_000000422024_00375_10449_0008.N1	29-FEB-2004 01:53:20	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	10449	No
GOM_TRA_1PNPDE20040229_015757_000000522024_00375_10449_0009.N1	29-FEB-2004 01:57:57	Bright	51.500	32	77Eps UMa	1.7630	11000.	103	10449	No
GOM_TRA_1PNPDE20040229_020045_000000362024_00375_10449_0010.N1	29-FEB-2004 02:00:45	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	10449	No
GOM_TRA_1PNPDE20040229_020630_000000492024_00375_10449_0011.N1	29-FEB-2004 02:06:30	Bright	49.000	119	14Eta Dra	2.7270	4700.0	98	10449	No
GOM_TRA_1PNPDE20040229_020815_000000382024_00375_10449_0012.N1	29-FEB-2004 02:08:15	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	10449	No
GOM_TRA_1PNPDE20040229_021052_000000482024_00375_10449_0013.N1	29-FEB-2004 02:10:52	Bright	47.500	130	23Bet Dra	2.7990	5800.0	95	10449	No
GOM_TRA_1PNPDE20040229_021321_000000352024_00375_10449_0014.N1	29-FEB-2004 02:13:21	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	10449	No
GOM_TRA_1PNPDE20040229_021454_000000372024_00375_10449_0015.N1	29-FEB-2004 02:14:54	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	10449	No
GOM_TRA_1PNPDE20040229_021627_000000362024_00375_10449_0016.N1	29-FEB-2004 02:16:27	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	10449	No
GOM_TRA_1PNPDE20040229_021927_000000812024_00375_10449_0017.N1	29-FEB-2004 02:19:27	Bright	81.000	133	40Zet Her	2.8070	6000.0	162	10449	No
GOM_TRA_1PNPDE20040229_022327_000000402024_00375_10449_0018.N1	29-FEB-2004 02:23:27	Bright	39.500	168	17Zet Aql	2.9860	11000.	79	10449	No
GOM_TRA_1PNPDE20040229_022643_000000692024_00375_10449_0019.N1	29-FEB-2004 02:26:43	Dark	69.000	59	55Alp Oph	2.0800	8900.0	138	10449	No
GOM_TRA_1PNPDE20040229_022915_000000702024_00375_10449_0020.N1	29-FEB-2004 02:29:15	Dark	70.000	126	60Bet Oph	2.7700	4250.0	140	10449	No
GOM_TRA_1PNPDE20040229_023314_000000422024_00375_10449_0021.N1	29-FEB-2004 02:33:14	Dark	42.000	155	41Pi Sgr	2.9000	6600.0	84	10449	No
GOM_TRA_1PNPDE20040229_023503_000000432024_00375_10449_0022.N1	29-FEB-2004 02:35:03	Dark	43.000	57	34Sig Sgr	2.0660	26000.	86	10449	No
GOM_TRA_1PNPDE20040229_023809_000000442024_00375_10449_0023.N1	29-FEB-2004 02:38:09	Dark	44.000	38	20Eps Sgr	1.8360	11000.	88	10449	No
GOM_TRA_1PNPDE20040229_024057_000000532024_00375_10449_0024.N1	29-FEB-2004 02:40:57	Dark	53.000	25	35Lam Sco	1.6200	28000.	106	10449	No
GOM_TRA_1PNPDE20040229_025001_000000392024_00376_10450_0025.N1	29-FEB-2004 02:50:01	Dark	38.500	145	Gam TrA	2.8720	10600.	77	10450	No
GOM_TRA_1PNPDE20040229_025117_000000452024_00376_10450_0026.N1	29-FEB-2004 02:51:17	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	10450	No

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



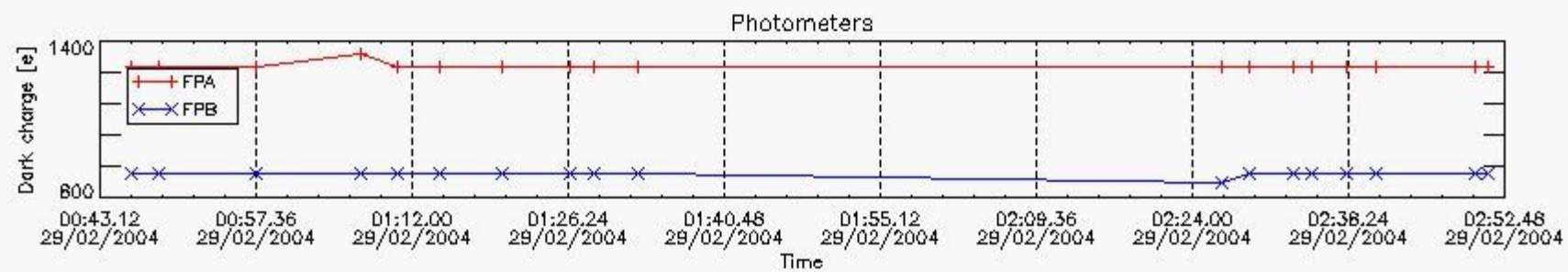
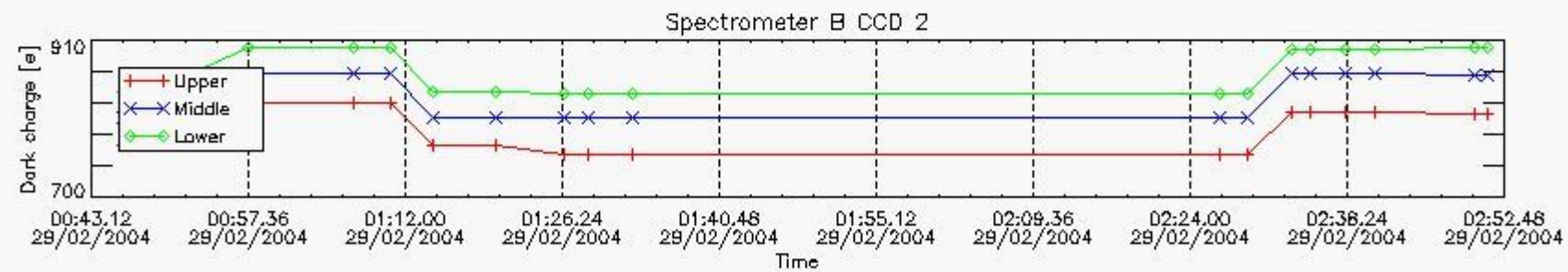
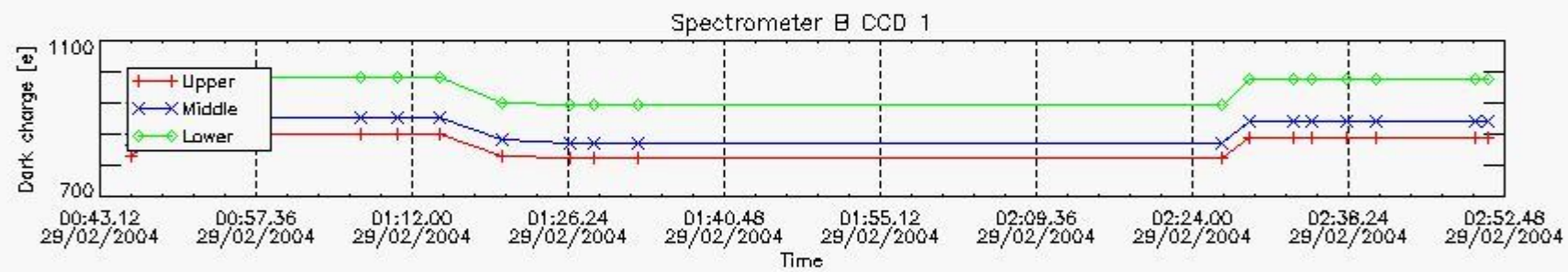
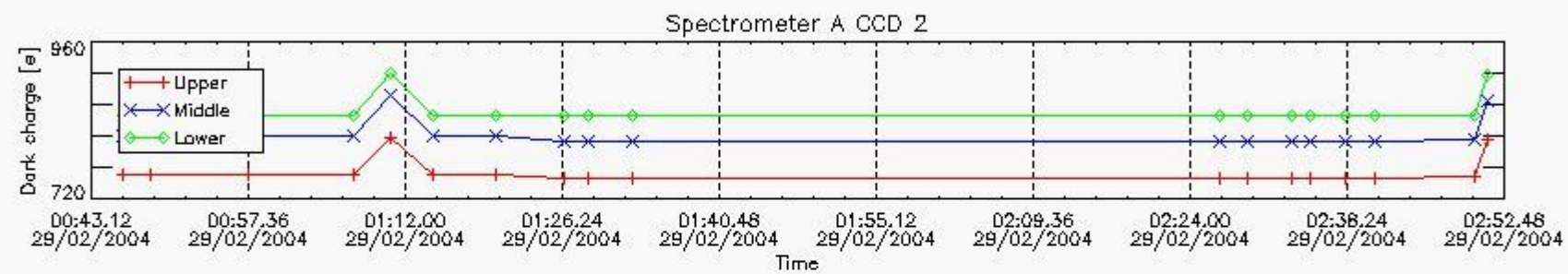
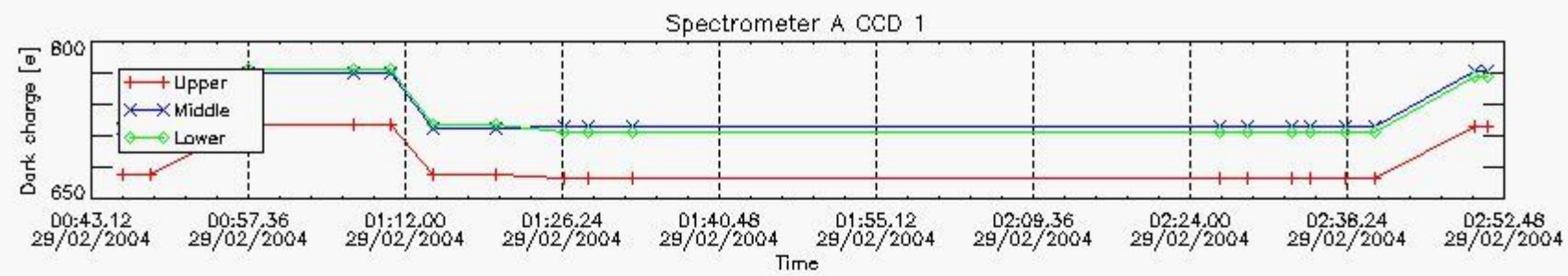
#### 4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

##### 4.1 All products used the DSA observation for the DC computation

##### 4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



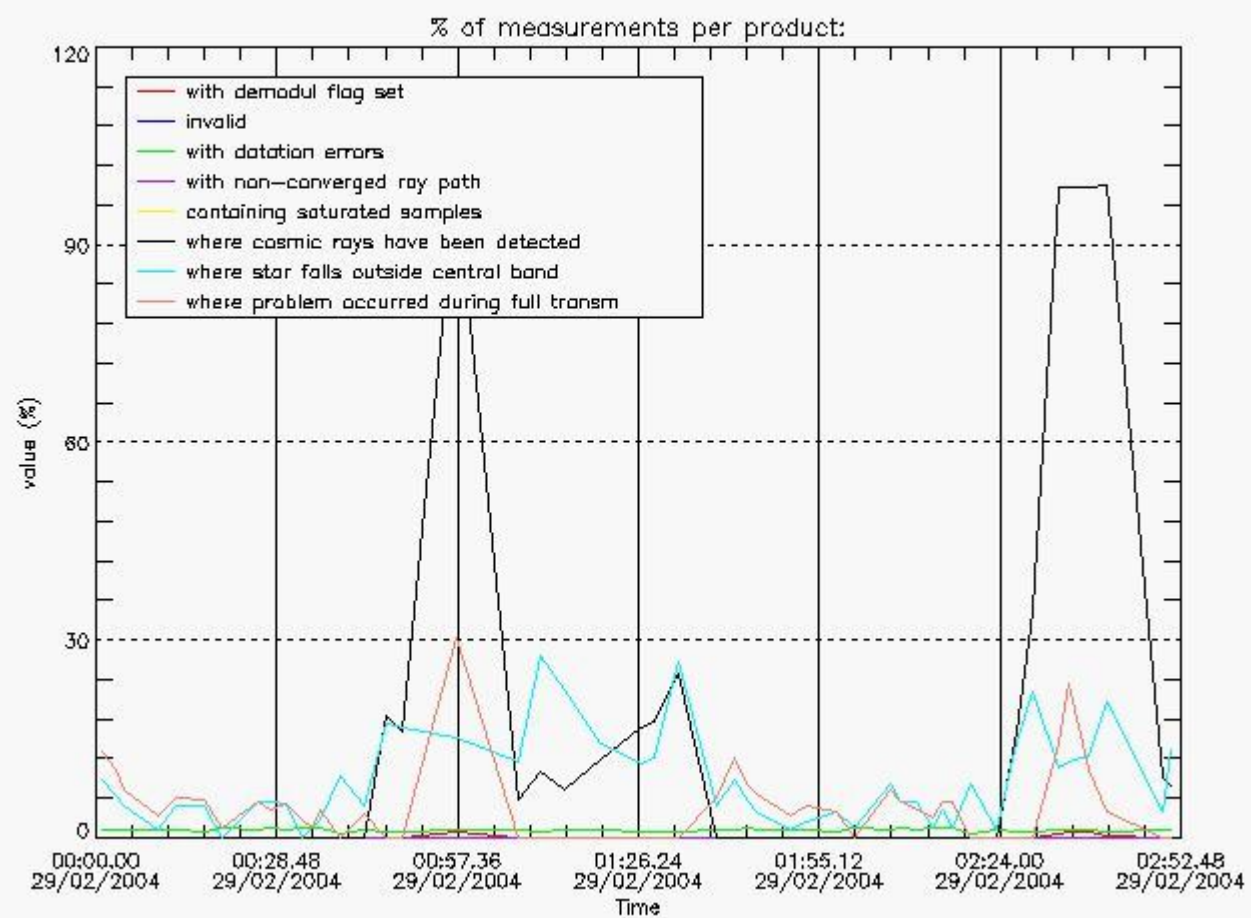
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	12.2449 %
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



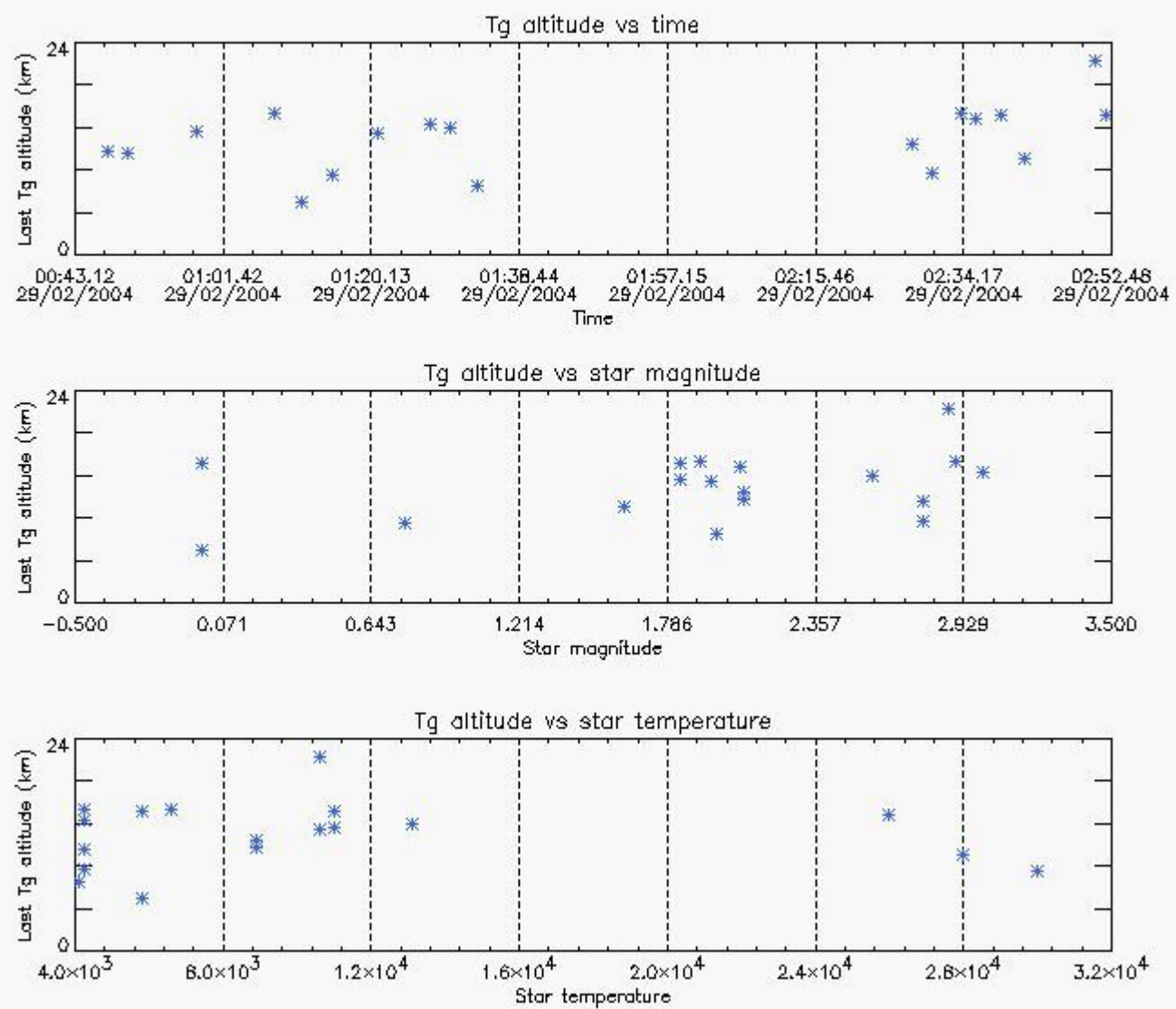
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.125	21.469
St. deviation:	3.7548	2.9712
Maximum:	21.968	27.750
Minimum:	6.0125	16.305
Number of data:	18.000	31.000

### 6.2 Plot for DARK limb products

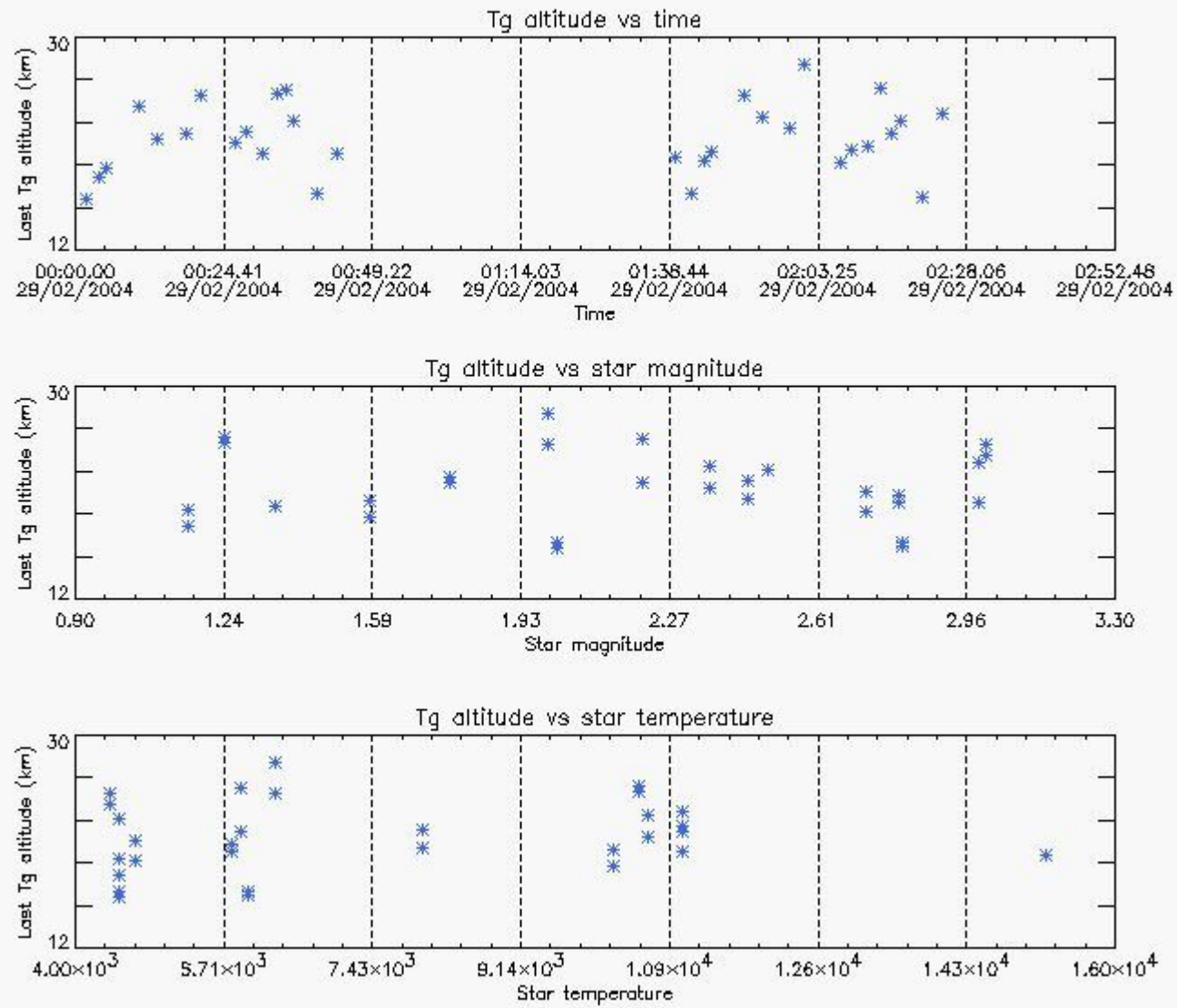
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost



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

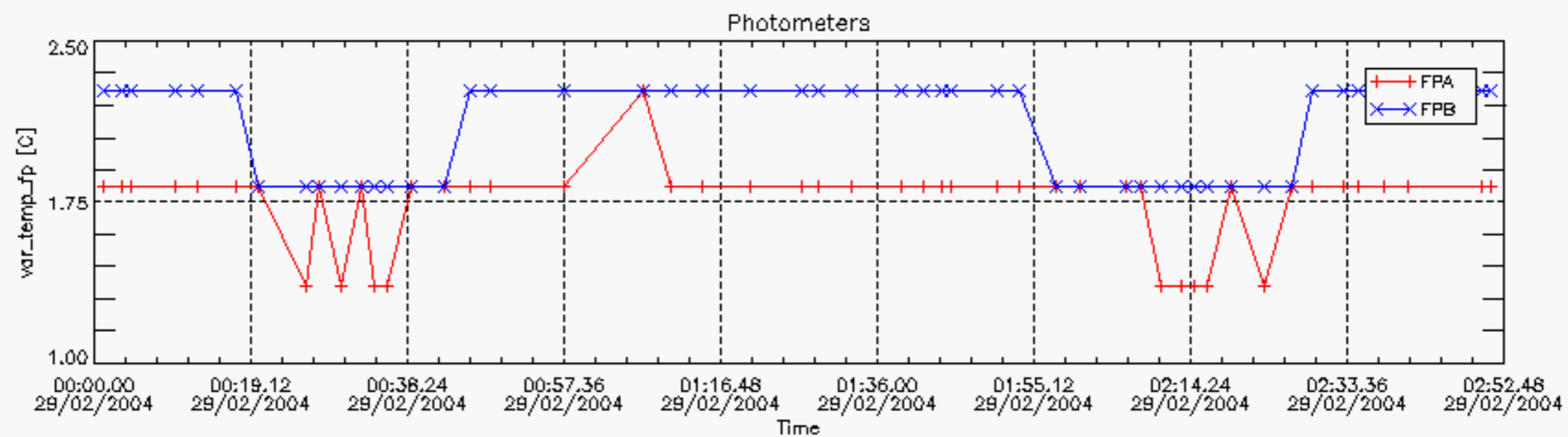
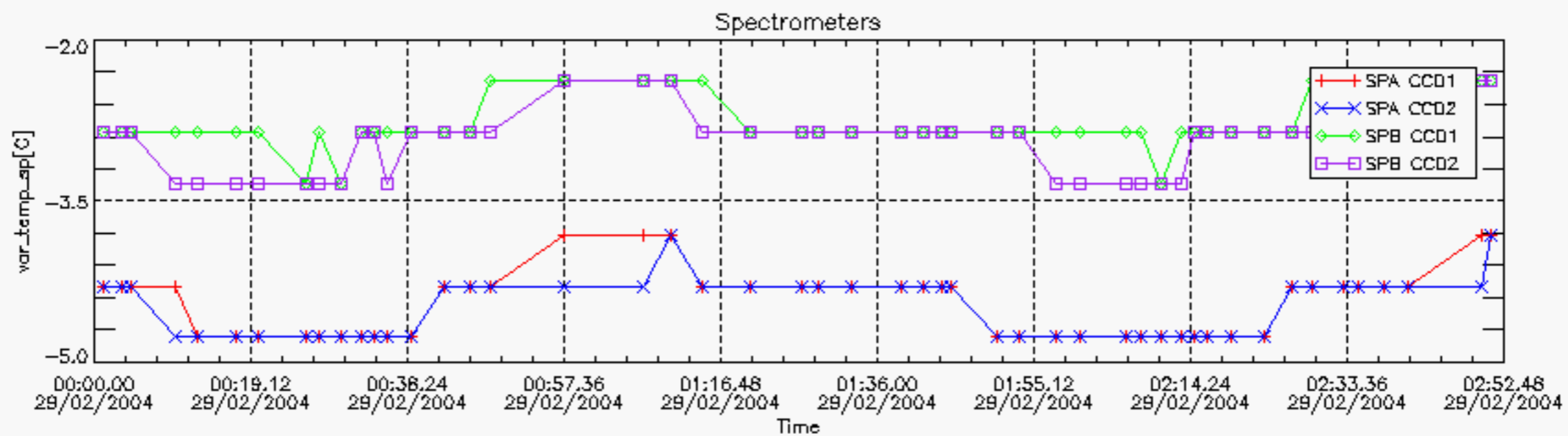
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

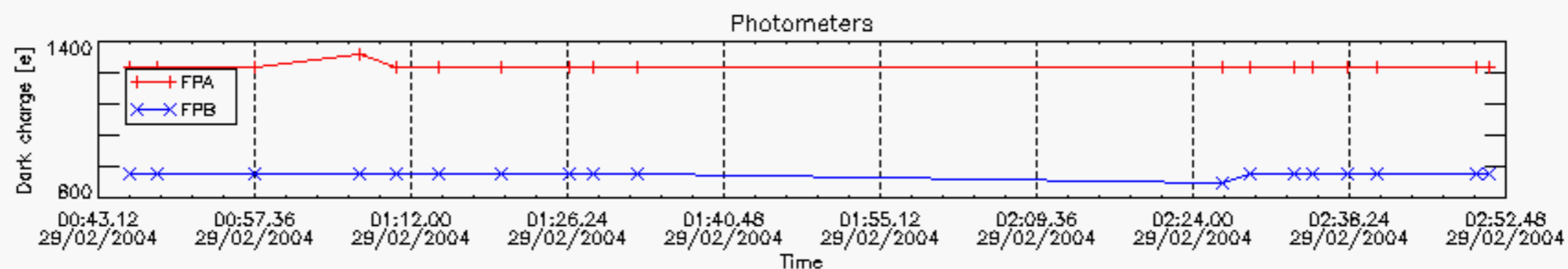
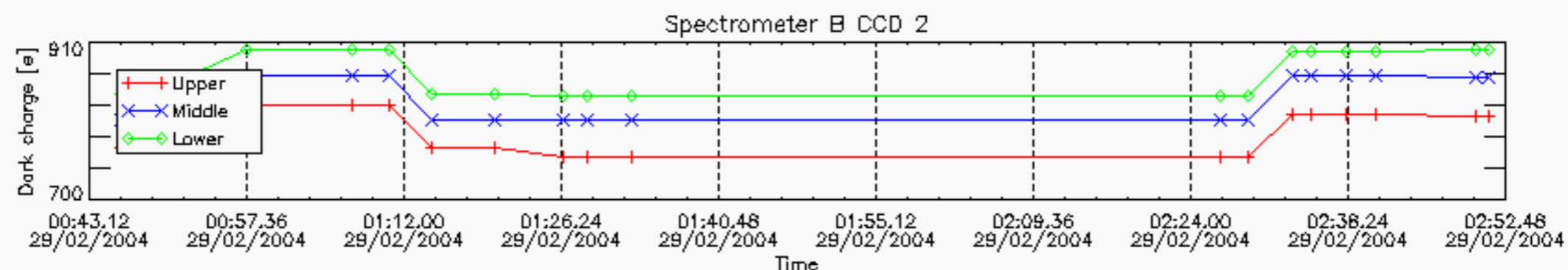
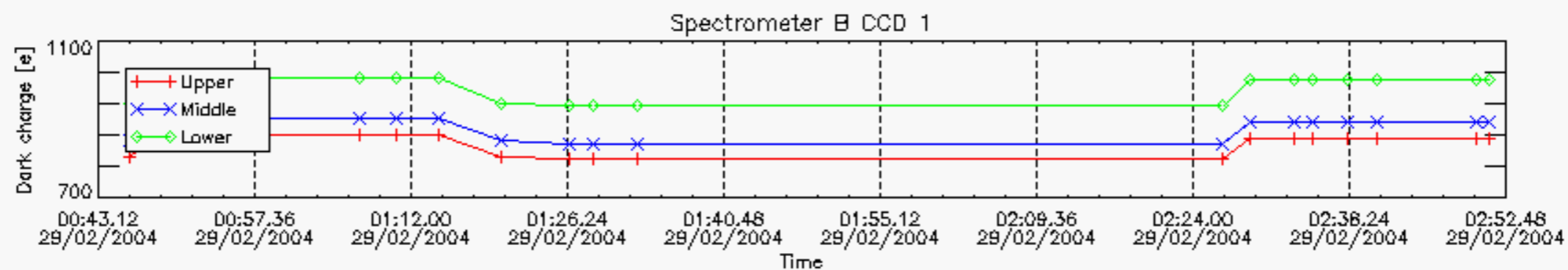
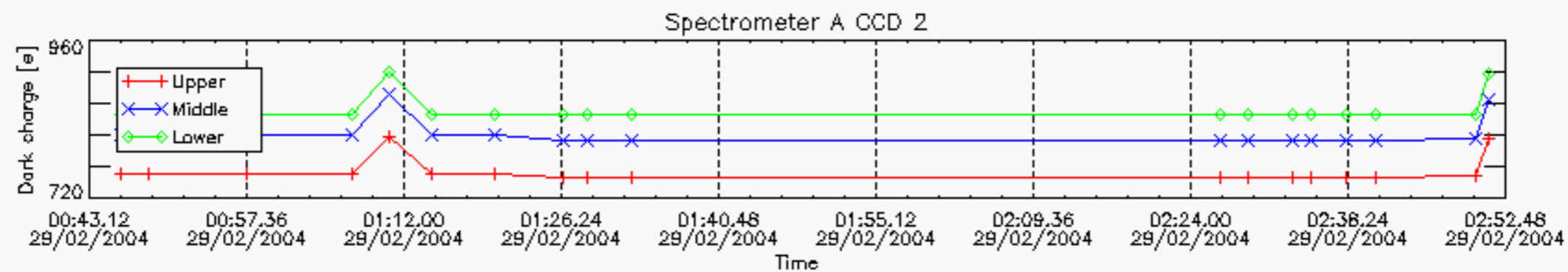
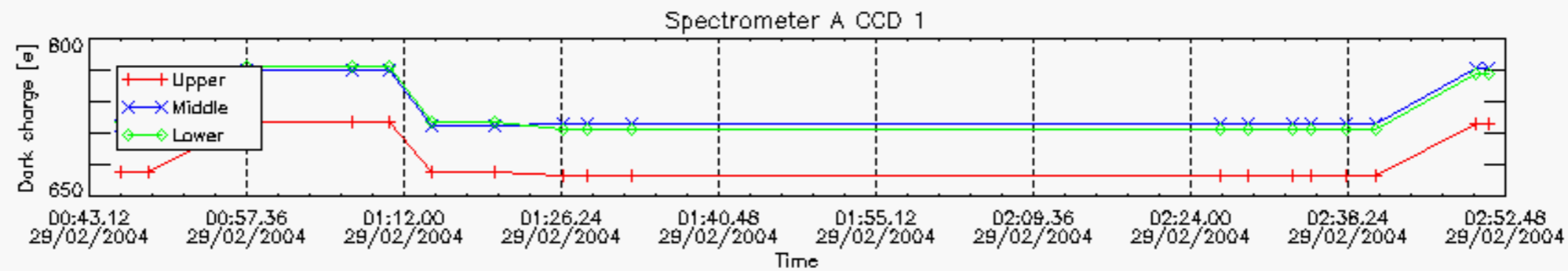
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.0	1448.1	1461.4	1447.8
St. deviation:	4.9842	5.6875	6.4780	7.5259
Maximum:	1545.0	1621.0	1502.0	1498.0
Minimum:	1458.0	1438.0	1417.0	1408.0
Number of data:	22700.	22700.	36750.	36750.

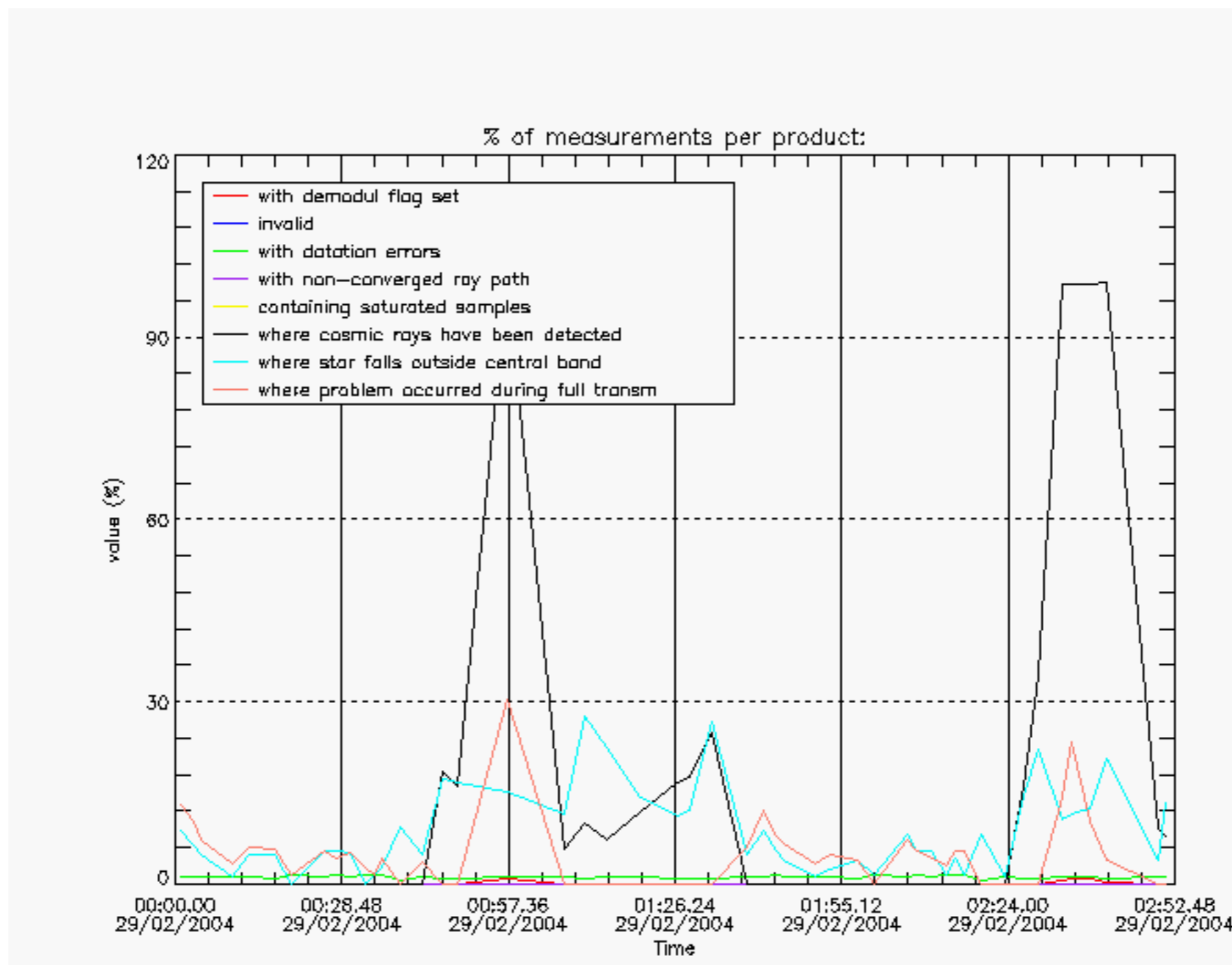




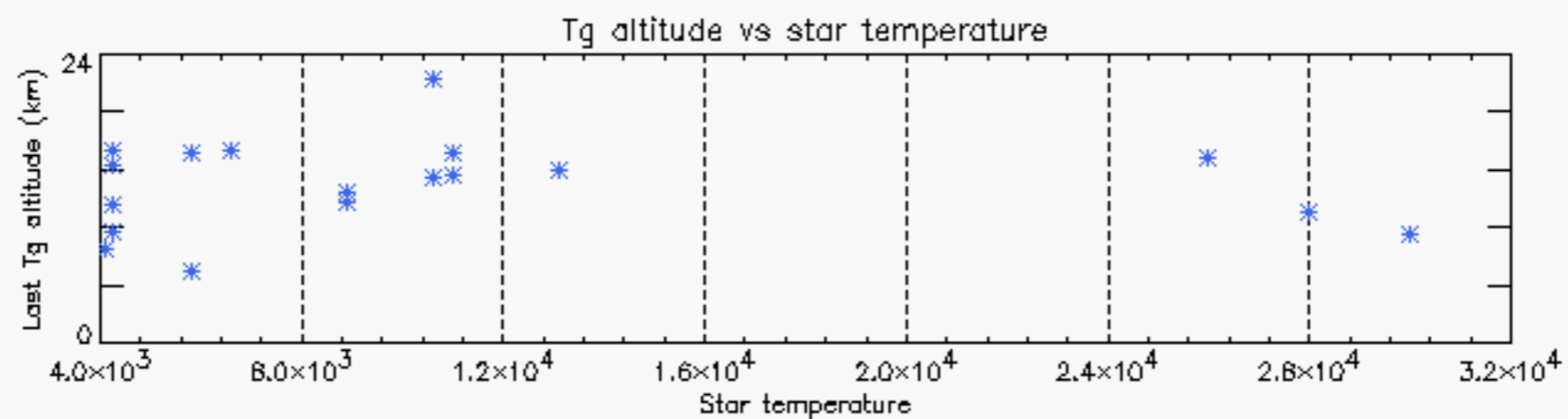
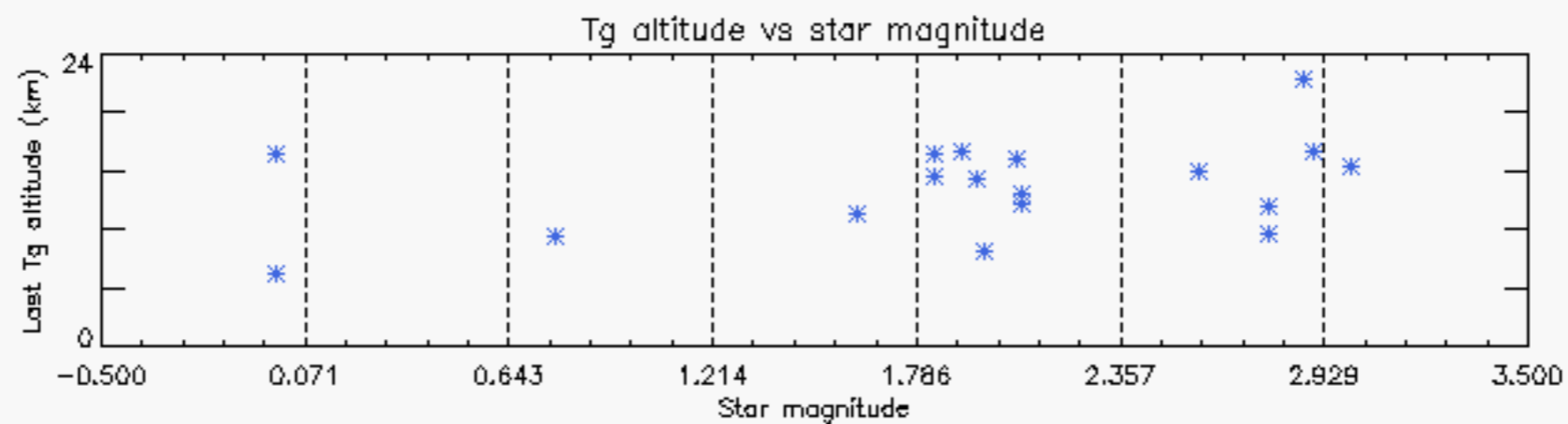
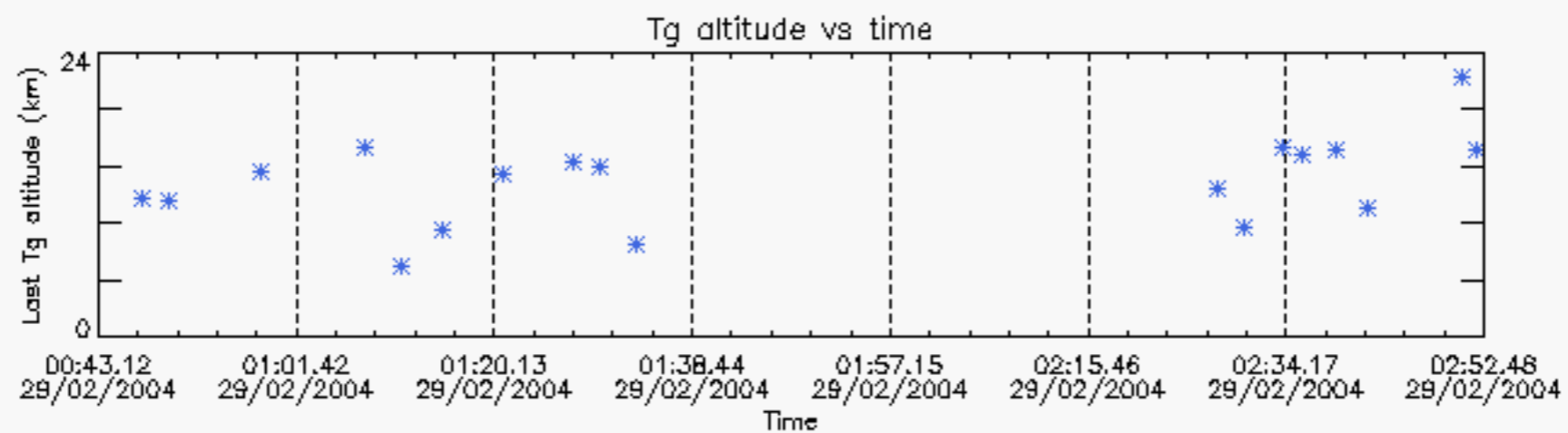




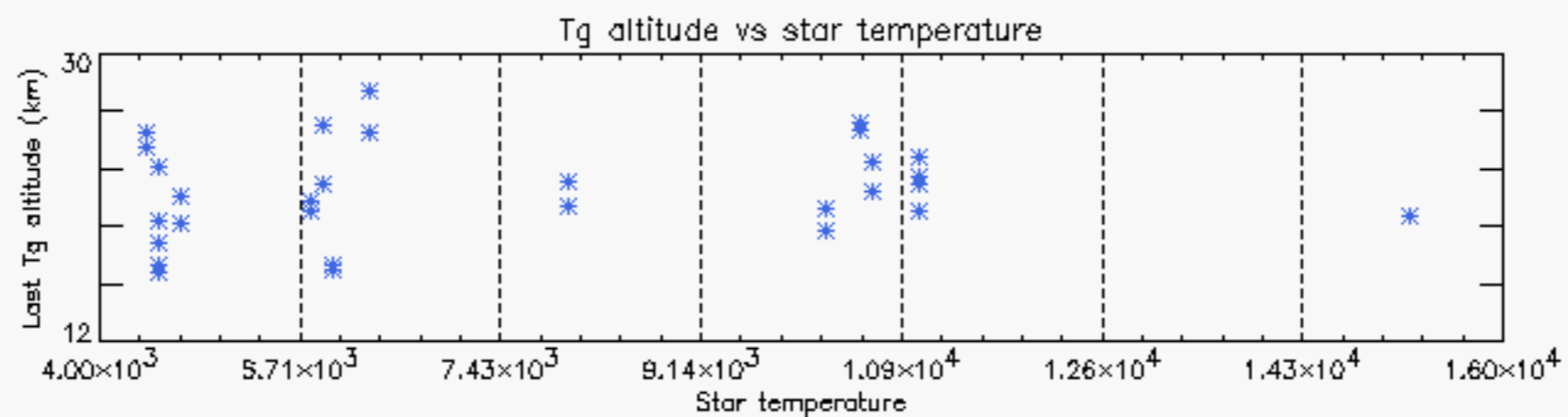
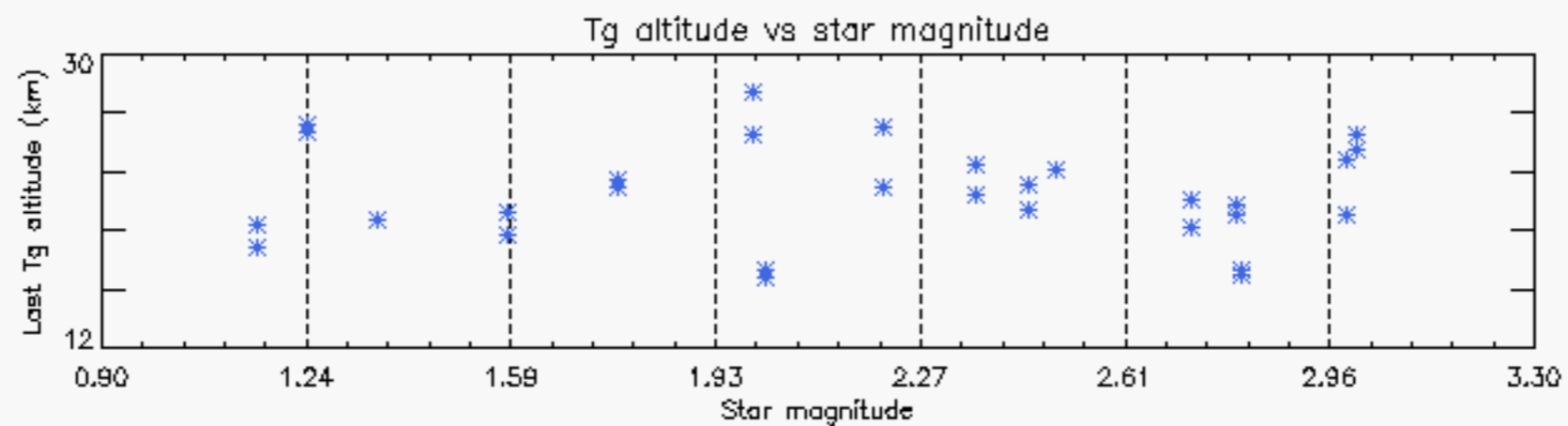
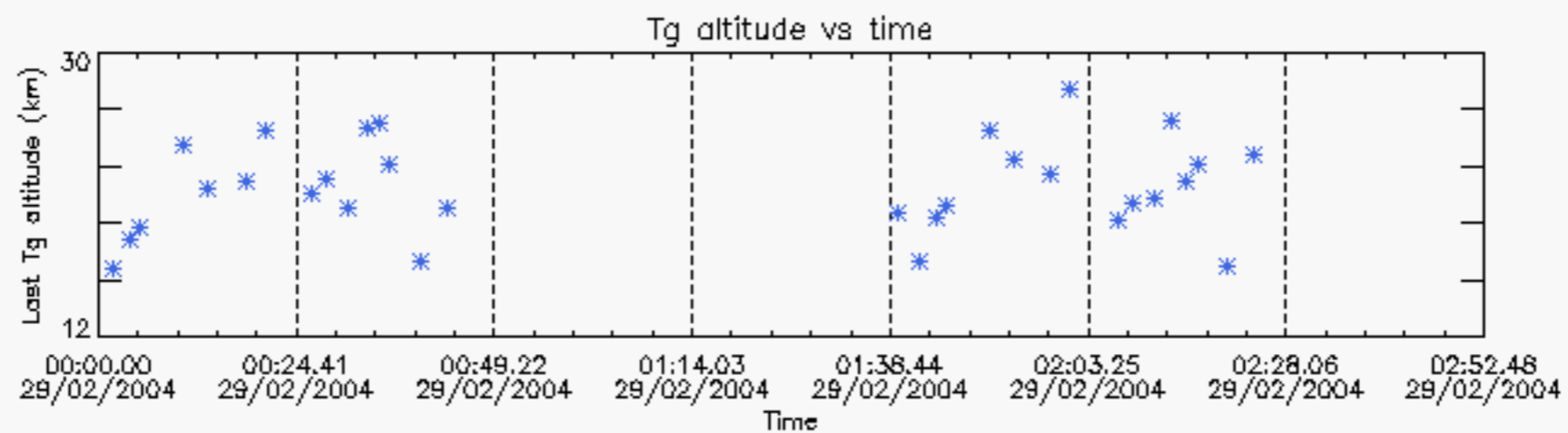




Tangent altitude at which the star is lost



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  
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6;-3582.3; 02-FEB-2004 14:17:31; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;10070
7;-3465.9; 02-FEB-2004 14:19:27; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;10070
8;-3341.2; 02-FEB-2004 14:21:32; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;10070
9;-2794.5; 02-FEB-2004 14:30:39; Bright; 48.0; 82; 48Bet UMa ; 2.37; 10600;occ; 96; 0;10070
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13;-2143.7; 02-FEB-2004 14:41:30; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;10070
14;-1950.6; 02-FEB-2004 14:44:43; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;10070
15;-1730.0; 02-FEB-2004 14:48:23; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;10070
16;-1548.1; 02-FEB-2004 14:51:25; Bright; 45.0; 133; 40Zet Her ; 2.81; 6000;occ; 90; 0;10070
17;-1290.8; 02-FEB-2004 14:55:42; Dark ; 111.0; 83; ; 2.38; 11000;occ; 222; 0;10070
18; -883.6; 02-FEB-2004 15:02:30; Dark ; 72.0; 102; 24Alp Ser ; 2.60; 4250;occ; 144; 0;10070
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22; -326.5; 02-FEB-2004 15:11:47; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;10070
23; -214.4; 02-FEB-2004 15:13:39; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;10070
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25; 31.1; 02-FEB-2004 15:17:44; Dark ; 46.0; 109; Bet Lup ; 2.68; 26000;occ; 92; 0;10071
26; 199.8; 02-FEB-2004 15:20:33; Dark ; 38.5; 145; Gam TrA ; 2.87; 10600;occ; 77; 0;10071
27; 275.3; 02-FEB-2004 15:21:49; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10071
28; 477.3; 02-FEB-2004 15:25:11; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;10071
29; 684.6; 02-FEB-2004 15:28:38; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;10071
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31; 1082.3; 02-FEB-2004 15:35:16; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;10071
32; 1207.2; 02-FEB-2004 15:37:20; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;10071
33; 1288.2; 02-FEB-2004 15:38:41; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;10071

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2;	-4564.0;	02-FEB-2004	15:41:45;	Dark	;	41.5;	37;	25Del CMA	;	1.83;	5900;	occ;	83;	0;	10071
3;	-4388.2;	02-FEB-2004	15:44:41;	Dark	;	46.0;	1;	9Alp CMA	;	-1.44;	11000;	occ;	92;	0;	10071
4;	-4294.5;	02-FEB-2004	15:46:15;	Dark	;	69.0;	48;	30Alp Hya	;	1.98;	4100;	occ;	138;	0;	10071
5;	-4044.2;	02-FEB-2004	15:50:25;	Dark	;	51.5;	8;	10Alp CMi	;	0.40;	6500;	occ;	103;	0;	10071
6;	-3835.3;	02-FEB-2004	15:53:54;	Bright;		39.0;	44;	24Gam Gem	;	1.93;	11000;	occ;	78;	0;	10071
7;	-3724.5;	02-FEB-2004	15:55:45;	Bright;		40.5;	151;	13Mu Gem	;	2.89;	3000;	occ;	81;	0;	10071
8;	-3582.7;	02-FEB-2004	15:58:07;	Bright;		39.0;	24;	66Alp Gem	;	1.58;	10200;	occ;	78;	0;	10071
9;	-3466.1;	02-FEB-2004	16:00:03;	Bright;		38.0;	107;	37The Aur	;	2.65;	11000;	occ;	76;	0;	10071
10;	-3341.2;	02-FEB-2004	16:02:08;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;	occ;	74;	0;	10071
11;	-2795.7;	02-FEB-2004	16:11:14;	Bright;		48.5;	82;	48Bet UMA	;	2.37;	10600;	occ;	97;	0;	10071
12;	-2609.3;	02-FEB-2004	16:14:20;	Bright;		37.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	75;	0;	10071
13;	-2428.0;	02-FEB-2004	16:17:21;	Bright;		42.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	85;	0;	10071
14;	-2319.3;	02-FEB-2004	16:19:10;	Bright;		59.0;	55;	79Zet UMA	;	2.06;	10200;	occ;	118;	0;	10071
15;	-2144.3;	02-FEB-2004	16:22:05;	Bright;		42.5;	119;	14Eta Dra	;	2.73;	4700;	occ;	85;	0;	10071
16;	-1950.7;	02-FEB-2004	16:25:19;	Bright;		38.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	76;	0;	10071
17;	-1730.1;	02-FEB-2004	16:28:59;	Bright;		35.0;	5;	3Alp Lyr	;	0.03;	11000;	occ;	70;	0;	10071
18;	-1548.1;	02-FEB-2004	16:32:01;	Bright;		57.0;	133;	40Zet Her	;	2.81;	6000;	occ;	114;	0;	10071
19;	-1290.4;	02-FEB-2004	16:36:19;	Dark	;	114.0;	83;		;	2.38;	11000;	occ;	228;	0;	10071
20;	-881.9;	02-FEB-2004	16:43:07;	Dark	;	74.5;	102;	24Alp Ser	;	2.60;	4250;	occ;	149;	0;	10071
21;	-714.6;	02-FEB-2004	16:45:55;	Dark	;	47.0;	86;	35Eta Oph	;	2.43;	10200;	occ;	94;	0;	10071
22;	-556.4;	02-FEB-2004	16:48:33;	Dark	;	42.5;	167;	10Gam2Sgr	;	2.98;	4500;	occ;	85;	0;	10071
23;	-452.6;	02-FEB-2004	16:50:17;	Dark	;	53.0;	16;	21Alp Sco	;	1.02;	3000;	occ;	106;	0;	10071
24;	-326.4;	02-FEB-2004	16:52:23;	Dark	;	43.0;	40;	The Sco	;	1.86;	7100;	occ;	86;	0;	10071
25;	-214.0;	02-FEB-2004	16:54:15;	Dark	;	38.5;	147;	Alp Ara	;	2.88;	26000;	occ;	77;	0;	10071
26;	-103.6;	02-FEB-2004	16:56:06;	Dark	;	44.0;	131;	Gam Lup	;	2.80;	26000;	occ;	88;	0;	10071
27;	32.2;	02-FEB-2004	16:58:22;	Dark	;	46.5;	109;	Bet Lup	;	2.68;	26000;	occ;	93;	0;	10072
28;	200.1;	02-FEB-2004	17:01:09;	Dark	;	39.0;	145;	Gam TrA	;	2.87;	10600;	occ;	78;	0;	10072
29;	275.4;	02-FEB-2004	17:02:25;	Dark	;	58.5;	0;		;	0.00;	0;	occ;	117;	0;	10072
30;	478.2;	02-FEB-2004	17:05:48;	Dark	;	43.0;	12;	Alp1Cru	;	0.77;	30000;	occ;	86;	0;	10072
31;	685.0;	02-FEB-2004	17:09:14;	Dark	;	47.0;	29;	Bet Car	;	1.67;	10200;	occ;	94;	0;	10072
32;	878.6;	02-FEB-2004	17:12:28;	Dark	;	47.5;	41;	Eps Car	;	1.86;	4100;	occ;	95;	0;	10072
33;	1082.8;	02-FEB-2004	17:15:52;	Dark	;	43.0;	34;	Gam2Vel	;	1.79;	23000;	occ;	86;	0;	10072
34;	1207.8;	02-FEB-2004	17:17:57;	Dark	;	8.0;	70;	Zet Pup	;	2.25;	39000;	occ;	16;	0;	10072

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2;	-4747.0;	02-FEB-2004	17:19:18;	Dark	;	43.5;	117;	Pi Pup	;	2.71;	3800;	occ;	87;	0;	10072
3;	-4563.8;	02-FEB-2004	17:22:22;	Dark	;	42.5;	37;	25Del CMA	;	1.83;	5900;	occ;	85;	0;	10072
4;	-4388.0;	02-FEB-2004	17:25:17;	Dark	;	48.5;	1;	9Alp CMA	;	-1.44;	11000;	occ;	97;	0;	10072
5;	-4294.2;	02-FEB-2004	17:26:51;	Dark	;	62.0;	48;	30Alp Hya	;	1.98;	4100;	occ;	124;	0;	10072
6;	-4043.9;	02-FEB-2004	17:31:01;	Dark	;	53.0;	8;	10Alp CMi	;	0.40;	6500;	occ;	106;	0;	10072
7;	-3834.9;	02-FEB-2004	17:34:30;	Bright;		39.5;	44;	24Gam Gem	;	1.93;	11000;	occ;	79;	0;	10072
8;	-3724.0;	02-FEB-2004	17:36:21;	Bright;		39.5;	151;	13Mu Gem	;	2.89;	3000;	occ;	79;	0;	10072
9;	-3582.6;	02-FEB-2004	17:38:43;	Bright;		40.5;	24;	66Alp Gem	;	1.58;	10200;	occ;	81;	0;	10072
10;	-3465.5;	02-FEB-2004	17:40:40;	Bright;		37.0;	107;	37The Aur	;	2.65;	11000;	occ;	74;	0;	10072
11;	-3340.6;	02-FEB-2004	17:42:45;	Bright;		36.5;	42;	34Bet Aur	;	1.90;	10200;	occ;	73;	0;	10072
12;	-2797.0;	02-FEB-2004	17:51:48;	Bright;		50.0;	82;	48Bet UMA	;	2.37;	10600;	occ;	100;	0;	10072
13;	-2609.2;	02-FEB-2004	17:54:56;	Bright;		37.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	75;	0;	10072
14;	-2428.1;	02-FEB-2004	17:57:57;	Bright;		42.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	85;	0;	10072
15;	-2319.7;	02-FEB-2004	17:59:46;	Bright;		58.5;	55;	79Zet UMA	;	2.06;	10200;	occ;	117;	0;	10072
16;	-2144.1;	02-FEB-2004	18:02:41;	Bright;		40.0;	119;	14Eta Dra	;	2.73;	4700;	occ;	80;	0;	10072
17;	-1950.6;	02-FEB-2004	18:05:55;	Bright;		37.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	74;	0;	10072
18;	-1729.8;	02-FEB-2004	18:09:35;	Bright;		38.0;	5;	3Alp Lyr	;	0.03;	11000;	occ;	76;	0;	10072
19;	-1548.1;	02-FEB-2004	18:12:37;	Bright;		45.0;	133;	40Zet Her	;	2.81;	6000;	occ;	90;	0;	10072
20;	-1289.5;	02-FEB-2004	18:16:56;	Dark	;	119.0;	83;		;	2.38;	11000;	occ;	238;	0;	10072
21;	-883.2;	02-FEB-2004	18:23:42;	Dark	;	76.5;	102;	24Alp Ser	;	2.60;	4250;	occ;	153;	0;	10072
22;	-713.9;	02-FEB-2004	18:26:31;	Dark	;	47.5;	86;	35Eta Oph	;	2.43;	10200;	occ;	95;	0;	10072
23;	-555.9;	02-FEB-2004	18:29:09;	Dark	;	41.0;	167;	10Gam2Sgr	;	2.98;	4500;	occ;	82;	0;	10072
24;	-451.6;	02-FEB-2004	18:30:54;	Dark	;	60.0;	16;	21Alp Sco	;	1.02;	3000;	occ;	120;	0;	10072
25;	-326.0;	02-FEB-2004	18:32:59;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;	occ;	83;	0;	10072
26;	-213.5;	02-FEB-2004	18:34:52;	Dark	;	37.5;	147;	Alp Ara	;	2.88;	26000;	occ;	75;	0;	10072
27;	-102.4;	02-FEB-2004	18:36:43;	Dark	;	44.5;	131;	Gam Lup	;	2.80;	26000;	occ;	89;	0;	10072
28;	33.2;	02-FEB-2004	18:38:59;	Dark	;	45.5;	109;	Bet Lup	;	2.68;	26000;	occ;	91;	0;	10073
29;	200.7;	02-FEB-2004	18:41:46;	Dark	;	39.0;	145;	Gam TrA	;	2.87;	10600;	occ;	78;	0;	10073
30;	275.5;	02-FEB-2004	18:43:01;	Dark	;	58.5;	0;		;	0.00;	0;	occ;	117;	0;	10073
31;	479.0;	02-FEB-2004	18:46:24;	Dark	;	52.0;	12;	Alp1Cru	;	0.77;	30000;	occ;	104;	0;	10073
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16;-2320.8; 02-FEB-2004 19:40:20; Bright; 58.5; 55; 79Zet UMa ; 2.06; 10200;occ; 117; 0;10073
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19;-1729.7; 02-FEB-2004 19:50:12; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;10073
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26; -325.7; 02-FEB-2004 20:13:36; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;10073
27; -213.1; 02-FEB-2004 20:15:28; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;10073
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26;	276.7;	03-FEB-2004	11:29:01;	Dark	;	58.5;	0;		;	0.00;	0;occ;	117;	0;	10083
27;	484.6;	03-FEB-2004	11:32:29;	Dark	;	43.0;	12;	Alp1Cru	;	0.77;	30000;occ;	86;	0;	10083
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7;	-3462.6;	03-FEB-2004	12:07:18;	Bright;		37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	10083
8;	-3338.8;	03-FEB-2004	12:09:22;	Bright;		37.5;	42;	34Bet Aur	;	1.90;	10200;occ;	75;	0;	10083
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27;	276.9;	03-FEB-2004	13:09:37;	Dark	;	58.5;	0;		;	0.00;	0;occ;	117;	0;	10084
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