

# GOMOS Daily Report 07-APR-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	08APR2004 08:48:04
Data source version	GOMOS/4.02
Start time of products	07-APR-2004 (07APR2004 00:00:00)
Stop time of products	08-APR-2004 (08APR2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

## 2. Summary of products arrived in PCF

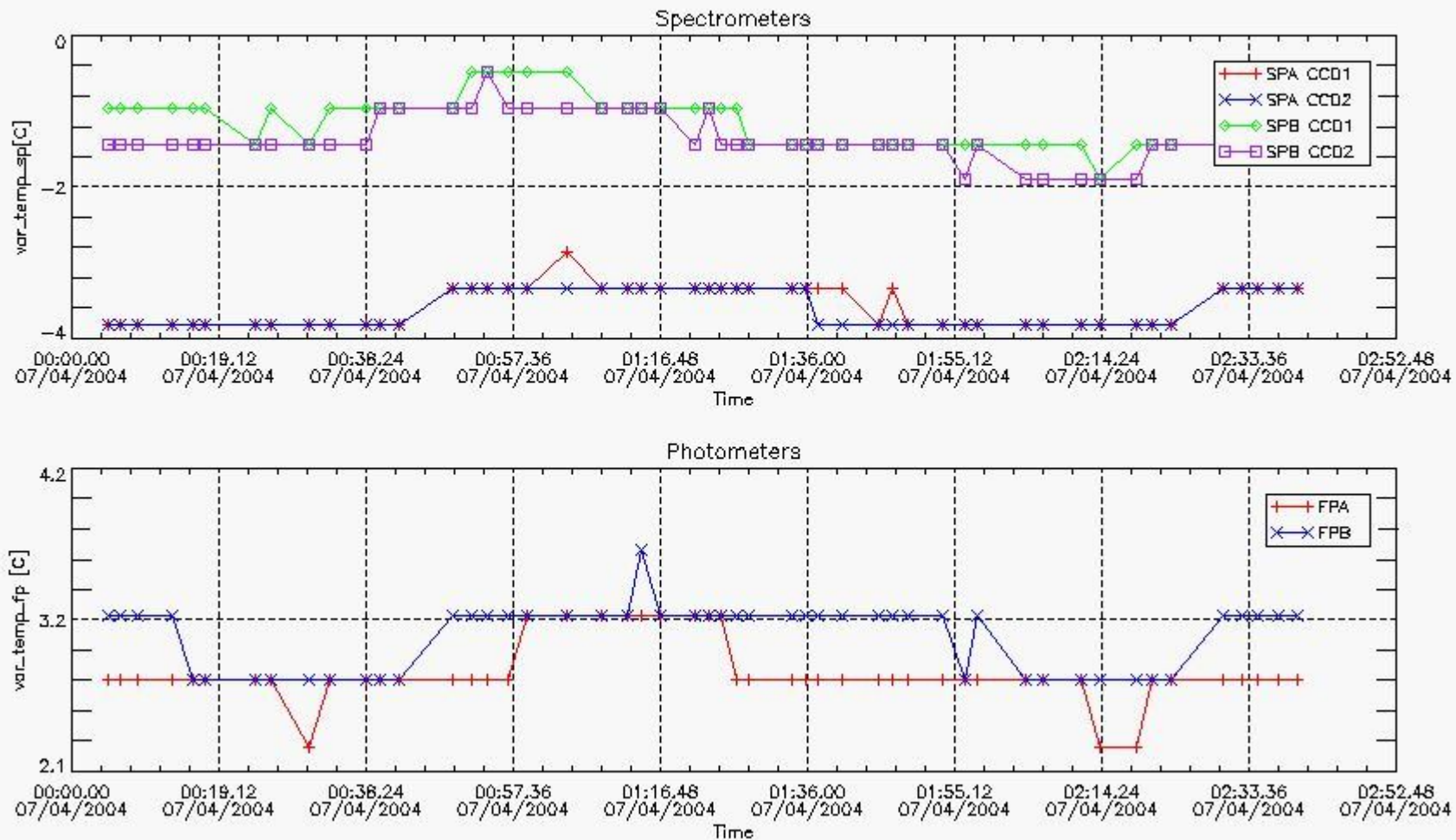
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040407_000437_000000382025_00417_10992_0005.N1	07-APR-2004 00:04:37	Bright	38.000	62	94Bet Leo	2.1360	9700.0	76	10992	No
GOM_TRA_1PNPDE20040407_000621_000000392025_00417_10992_0006.N1	07-APR-2004 00:06:21	Bright	38.500	96	68Del Leo	2.5600	9300.0	77	10992	No
GOM_TRA_1PNPDE20040407_000831_000000542025_00417_10992_0007.N1	07-APR-2004 00:08:31	Bright	54.000	111	8Eta Boo	2.6800	6000.0	108	10992	No
GOM_TRA_1PNPDE20040407_001303_000000392025_00417_10992_0008.N1	07-APR-2004 00:13:03	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	10992	No
GOM_TRA_1PNPDE20040407_001553_000000382025_00417_10992_0009.N1	07-APR-2004 00:15:53	Bright	37.500	87	64Gam UMa	2.4330	11000.	75	10992	No
GOM_TRA_1PNPDE20040407_001725_000000422025_00417_10992_0010.N1	07-APR-2004 00:17:25	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	10992	No
GOM_TRA_1PNPDE20040407_002351_000000422025_00417_10992_0011.N1	07-APR-2004 00:23:51	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	10992	No
GOM_TRA_1PNPDE20040407_002602_000000352025_00417_10992_0012.N1	07-APR-2004 00:26:02	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	10992	No
GOM_TRA_1PNPDE20040407_003102_000000612025_00417_10992_0013.N1	07-APR-2004 00:31:02	Bright	60.500	130	23Bet Dra	2.7990	5800.0	121	10992	No
GOM_TRA_1PNPDE20040407_003336_000000412025_00417_10992_0014.N1	07-APR-2004 00:33:36	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	10992	No
GOM_TRA_1PNPDE20040407_003825_000000502025_00417_10992_0015.N1	07-APR-2004 00:38:25	Bright	50.000	144	18Del Cyg	2.8600	11000.	100	10992	No
GOM_TRA_1PNPDE20040407_004015_000000922025_00417_10992_0016.N1	07-APR-2004 00:40:15	Bright	91.500	5	3Alp Lyr	0.033000	11000.	183	10992	No
GOM_TRA_1PNPDE20040407_004246_000000492025_00417_10992_0017.N1	07-APR-2004 00:42:46	Bright	49.000	92	53Eps Cyg	2.5000	4500.0	98	10992	No
GOM_TRA_1PNPDE20040407_004935_000000502025_00417_10992_0018.N1	07-APR-2004 00:49:35	Dark	49.500	61	8Eps Peg	2.1000	3900.0	99	10992	No
GOM_TRA_1PNPDE20040407_005204_000000462025_00417_10992_0019.N1	07-APR-2004 00:52:04	Dark	45.500	162	34Alp Aqr	2.9440	5350.0	91	10992	No
GOM_TRA_1PNPDE20040407_005410_000000772025_00417_10992_0020.N1	07-APR-2004 00:54:10	Dark	76.500	11	53Alp Aql	0.76500	8000.0	153	10992	No
GOM_TRA_1PNPDE20040407_005651_000000472025_00417_10992_0021.N1	07-APR-2004 00:56:51	Dark	46.500	142	49Del Cap	2.8500	8900.0	93	10992	No
GOM_TRA_1PNPDE20040407_005925_000000422025_00417_10992_0022.N1	07-APR-2004 00:59:25	Dark	42.000	18	24Alp PsA	1.1660	9700.0	84	10992	No
GOM_TRA_1PNPDE20040407_010435_000000422025_00417_10992_0023.N1	07-APR-2004 01:04:35	Dark	42.000	31	Alp Gru	1.7340	15200.	84	10992	No
GOM_TRA_1PNPDE20040407_010910_000000412025_00417_10992_0024.N1	07-APR-2004 01:09:10	Dark	40.500	45	Alp Pav	1.9400	26000.	81	10992	No
GOM_TRA_1PNPDE20040407_011231_000000652025_00418_10993_0025.N1	07-APR-2004 01:12:31	Dark	65.000	38	20Eps Sgr	1.8360	11000.	130	10993	No
GOM_TRA_1PNPDE20040407_011418_000000712025_00418_10993_0026.N1	07-APR-2004 01:14:18	Dark	70.500	167	10Gam2Sgr	2.9840	4500.0	141	10993	No
GOM_TRA_1PNPDE20040407_011643_000000652025_00418_10993_0027.N1	07-APR-2004 01:16:43	Dark	64.500	25	35Lam Sco	1.6200	28000.	129	10993	No
GOM_TRA_1PNPDE20040407_012113_000000502025_00418_10993_0028.N1	07-APR-2004 01:21:13	Dark	50.000	4	Alp1Cen	-0.010000	5800.0	100	10993	No
GOM_TRA_1PNPDE20040407_012306_000000442025_00418_10993_0029.N1	07-APR-2004 01:23:06	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	10993	No
GOM_TRA_1PNPDE20040407_012438_000000472025_00418_10993_0030.N1	07-APR-2004 01:24:38	Dark	47.000	26	Gam Cru	1.6240	2900.0	94	10993	No
GOM_TRA_1PNPDE20040407_012639_000000402025_00418_10993_0031.N1	07-APR-2004 01:26:39	Dark	40.000	64	Gam Cen	2.2000	10600.	80	10993	No
GOM_TRA_1PNPDE20040407_012821_000000492025_00418_10993_0032.N1	07-APR-2004 01:28:21	Dark	49.000	54	5The Cen	2.0550	4500.0	98	10993	No
GOM_TRA_1PNPDE20040407_013355_000000472025_00418_10993_0000.N1	07-APR-2004 01:33:55	Dark	46.500	106	9Bet Crv	2.6480	5600.0	93	10993	No
GOM_TRA_1PNPDE20040407_013549_000000442025_00418_10993_0001.N1	07-APR-2004 01:35:49	Dark	44.000	100	4Gam Crv	2.5800	13100.	88	10993	No
GOM_TRA_1PNPDE20040407_013726_000000522025_00418_10993_0002.N1	07-APR-2004 01:37:26	Bright	52.000	15	67Alp Vir	0.97600	28000.	104	10993	No
GOM_TRA_1PNPDE20040407_014033_000000442025_00418_10993_0003.N1	07-APR-2004 01:40:33	Bright	43.500	121	29Gam Vir	2.7400	7200.0	87	10993	No
GOM_TRA_1PNPDE20040407_014513_000000382025_00418_10993_0004.N1	07-APR-2004 01:45:13	Bright	38.000	62	94Bet Leo	2.1360	9700.0	76	10993	No
GOM_TRA_1PNPDE20040407_014658_000000392025_00418_10993_0005.N1	07-APR-2004 01:46:58	Bright	38.500	96	68Del Leo	2.5600	9300.0	77	10993	No
GOM_TRA_1PNPDE20040407_014906_000000542025_00418_10993_0006.N1	07-APR-2004 01:49:06	Bright	53.500	111	8Eta Boo	2.6800	6000.0	107	10993	No
GOM_TRA_1PNPDE20040407_015341_000000382025_00418_10993_0007.N1	07-APR-2004 01:53:41	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	10993	No
GOM_TRA_1PNPDE20040407_015629_000000372025_00418_10993_0008.N1	07-APR-2004 01:56:29	Bright	37.000	87	64Gam UMa	2.4330	11000.	74	10993	No
GOM_TRA_1PNPDE20040407_015801_000000382025_00418_10993_0009.N1	07-APR-2004 01:58:01	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	10993	No
GOM_TRA_1PNPDE20040407_020426_000000422025_00418_10993_0010.N1	07-APR-2004 02:04:26	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	10993	No
GOM_TRA_1PNPDE20040407_020638_000000382025_00418_10993_0011.N1	07-APR-2004 02:06:38	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	10993	No
GOM_TRA_1PNPDE20040407_021137_000000632025_00418_10993_0012.N1	07-APR-2004 02:11:37	Bright	62.500	130	23Bet Dra	2.7990	5800.0	125	10993	No
GOM_TRA_1PNPDE20040407_021412_000000412025_00418_10993_0013.N1	07-APR-2004 02:14:12	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	10993	No
GOM_TRA_1PNPDE20040407_021901_000000502025_00418_10993_0014.N1	07-APR-2004 02:19:01	Bright	50.000	144	18Del Cyg	2.8600	11000.	100	10993	No
GOM_TRA_1PNPDE20040407_022050_000001062025_00418_10993_0015.N1	07-APR-2004 02:20:50	Bright	105.50	5	3Alp Lyr	0.033000	11000.	211	10993	No
GOM_TRA_1PNPDE20040407_022322_000000472025_00418_10993_0016.N1	07-APR-2004 02:23:22	Bright	47.000	92	53Eps Cyg	2.5000	4500.0	94	10993	No
GOM_TRA_1PNPDE20040407_023012_000000522025_00418_10993_0017.N1	07-APR-2004 02:30:12	Dark	51.500	61	8Eps Peg	2.1000	3900.0	103	10993	No
GOM_TRA_1PNPDE20040407_023240_000000462025_00418_10993_0018.N1	07-APR-2004 02:32:40	Dark	45.500	162	34Alp Aqr	2.9440	5350.0	91	10993	No
GOM_TRA_1PNPDE20040407_023447_000000822025_00418_10993_0019.N1	07-APR-2004 02:34:47	Dark	81.500	11	53Alp Aql	0.76500	8000.0	163	10993	No
GOM_TRA_1PNPDE20040407_023727_000000432025_00418_10993_0020.N1	07-APR-2004 02:37:27	Dark	42.500	142	49Del Cap	2.8500	8900.0	85	10993	No
GOM_TRA_1PNPDE20040407_024000_000000462025_00418_10993_0021.N1	07-APR-2004 02:40:00	Dark	45.500	18	24Alp PsA	1.1660	9700.0	91	10993	No

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



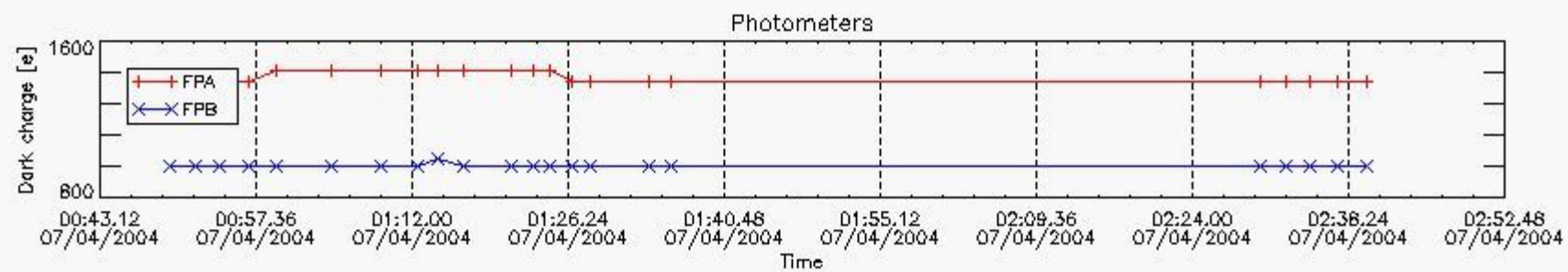
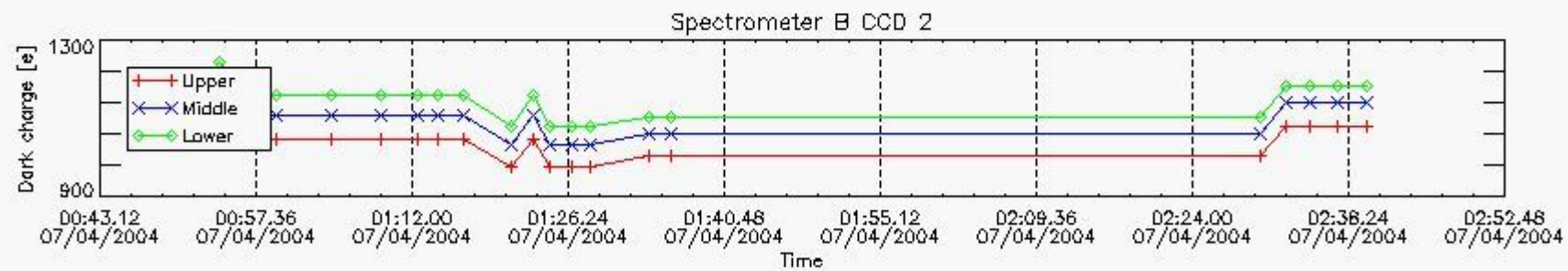
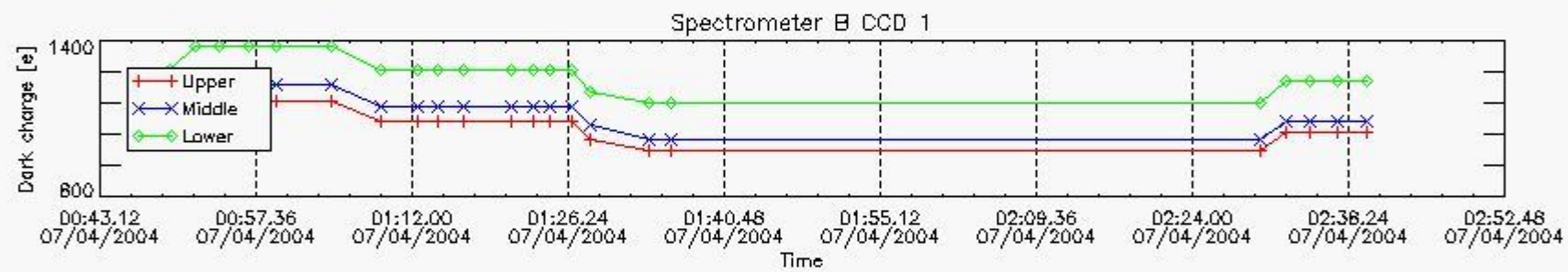
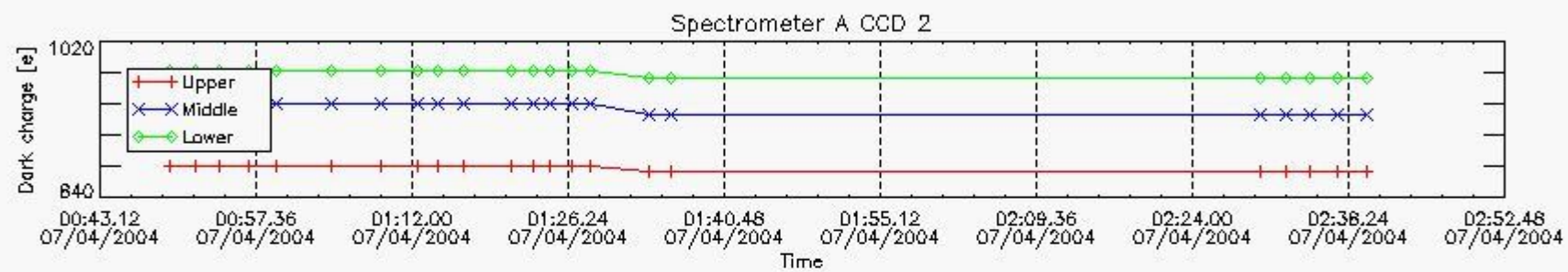
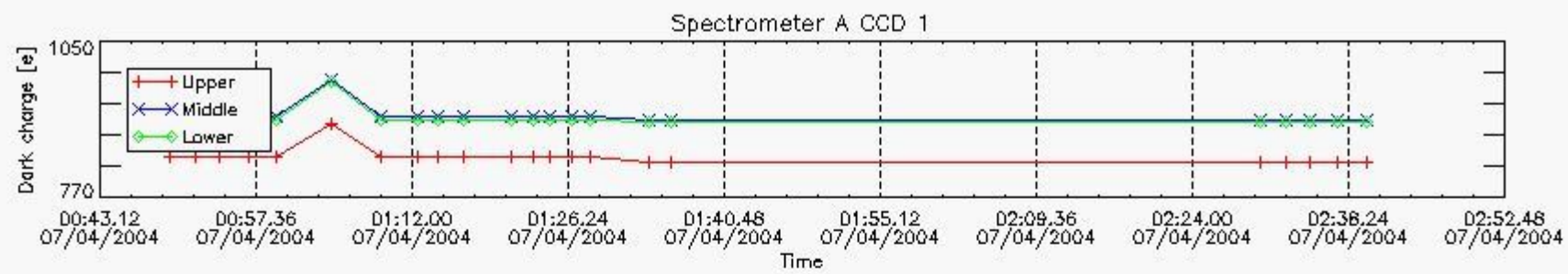
#### 4. Overview of dark signal processing per product

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

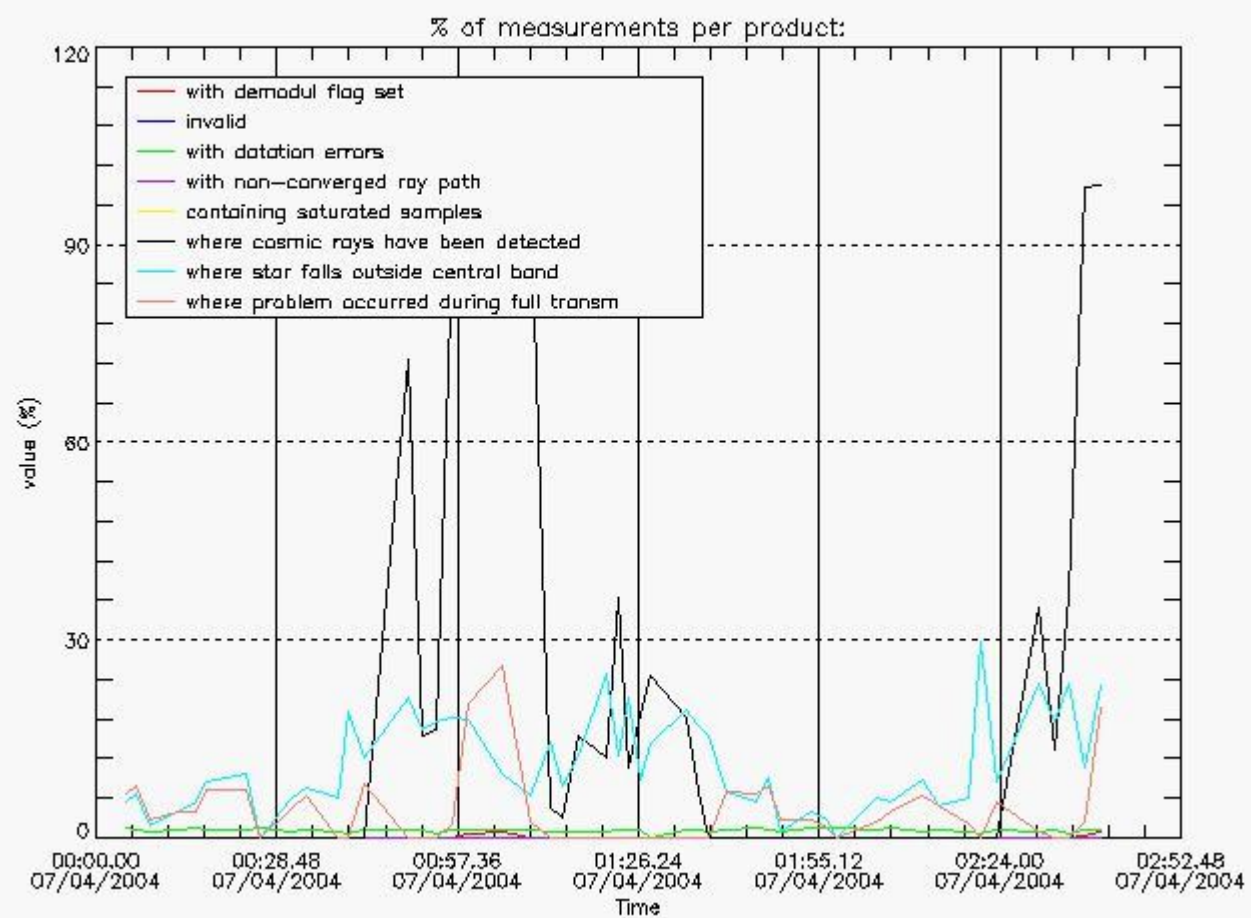


## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	12.0000 %
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



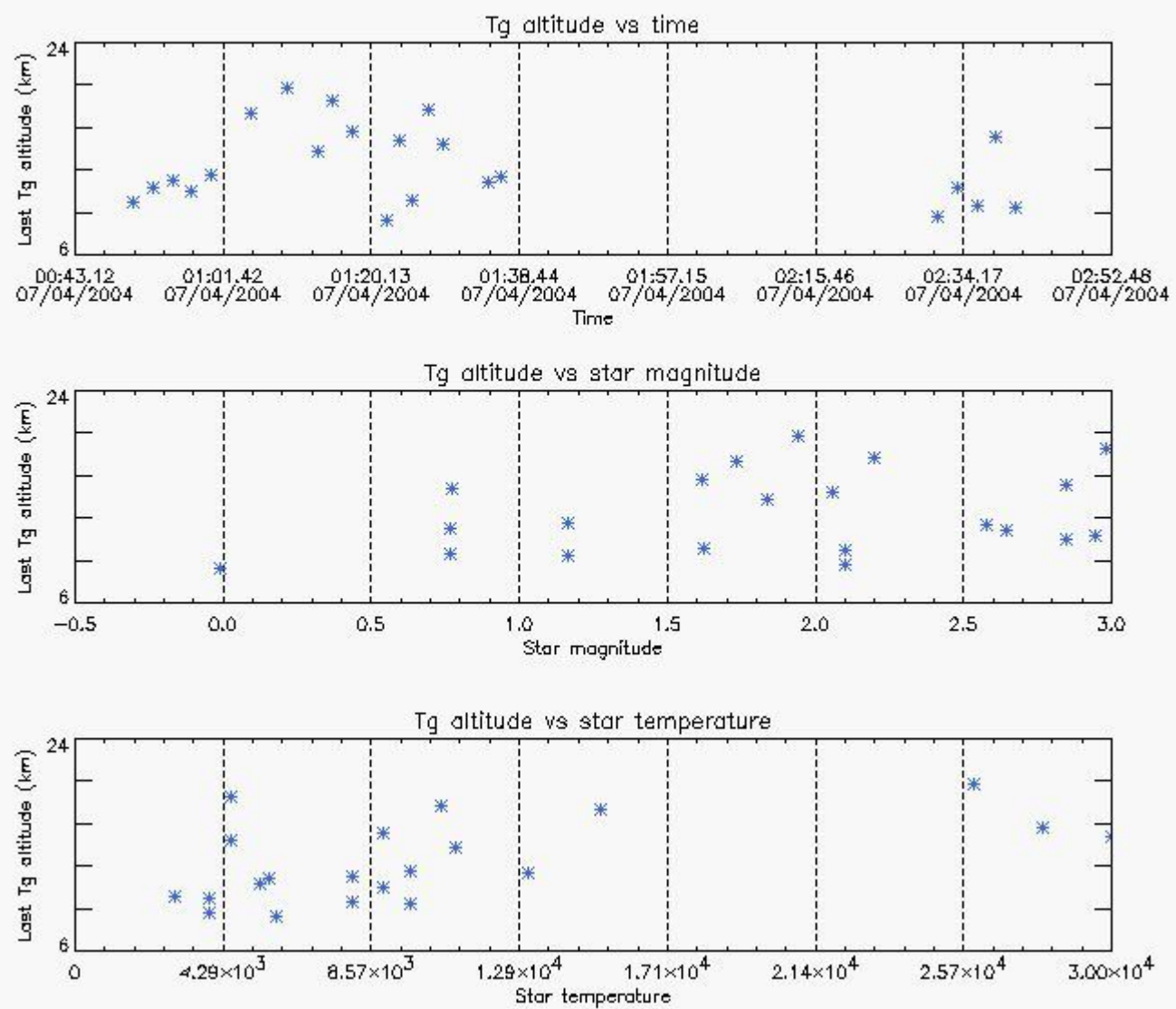
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.540	20.225
St. deviation:	3.3588	4.3563
Maximum:	20.127	28.771
Minimum:	8.9920	6.8019
Number of data:	22.000	28.000

### 6.2 Plot for DARK limb products

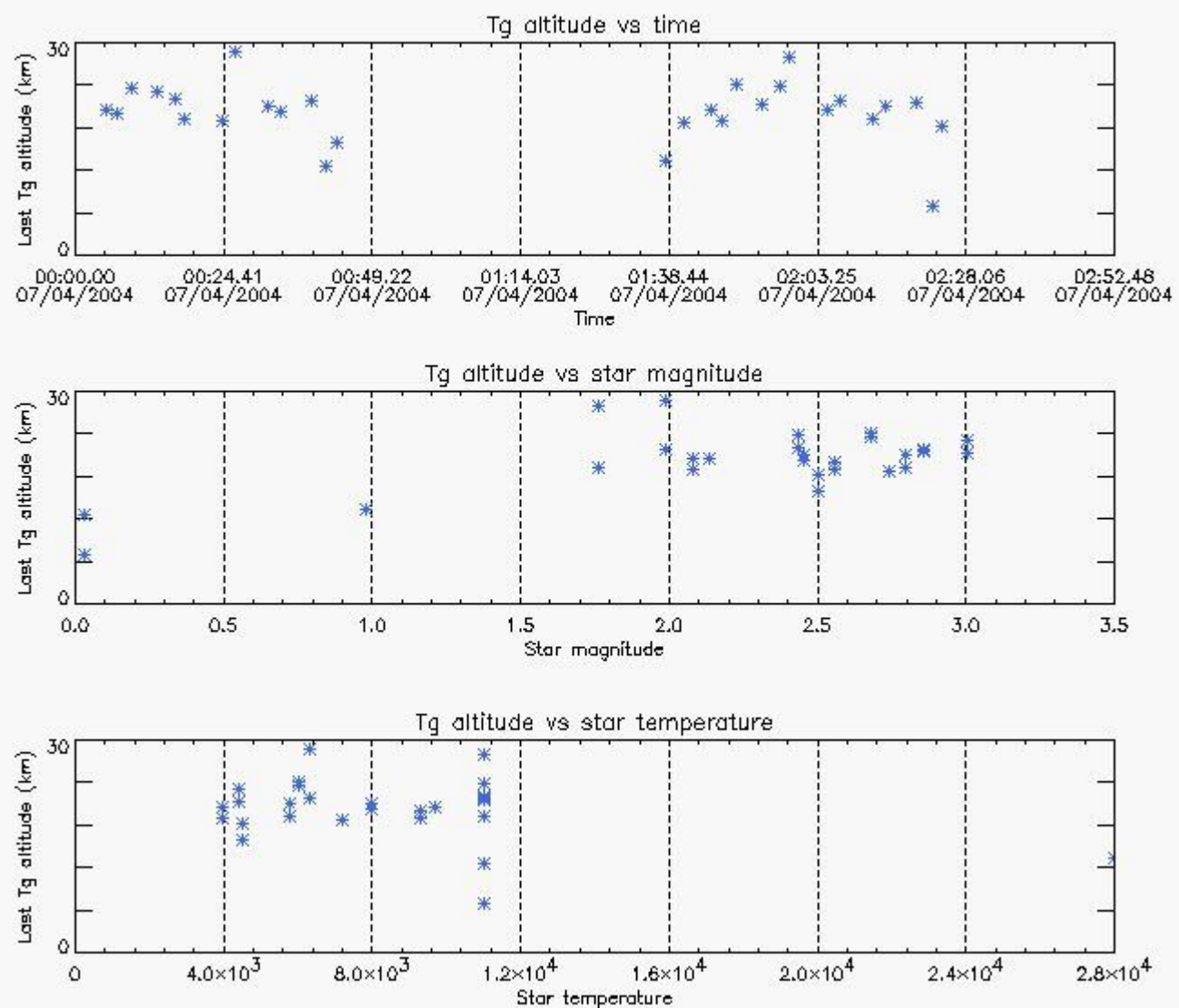
Tangent altitude at which the star is lost



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

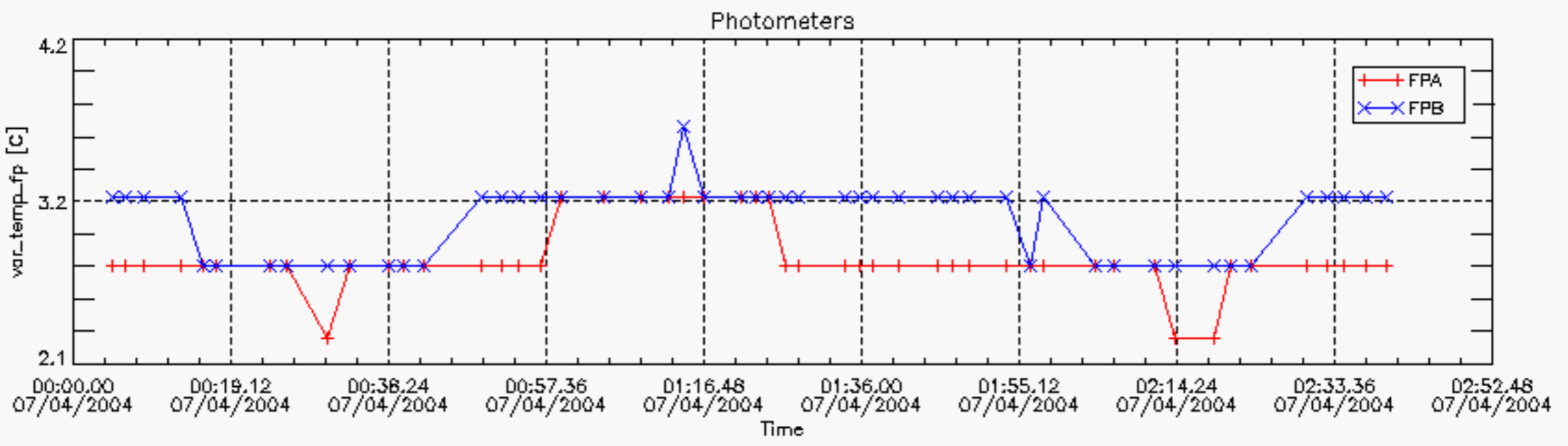
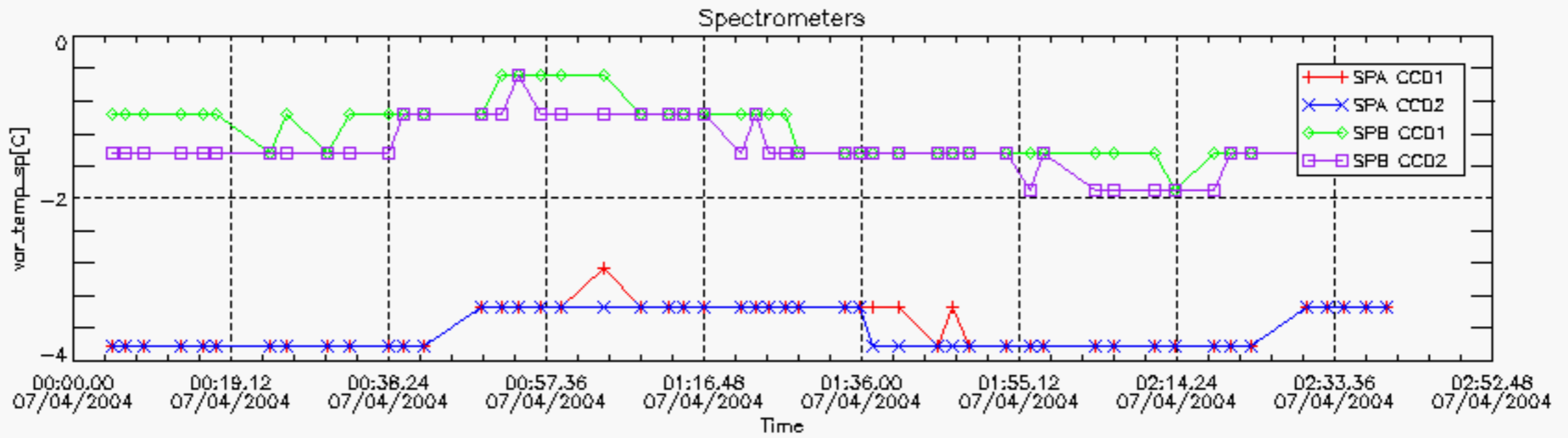
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

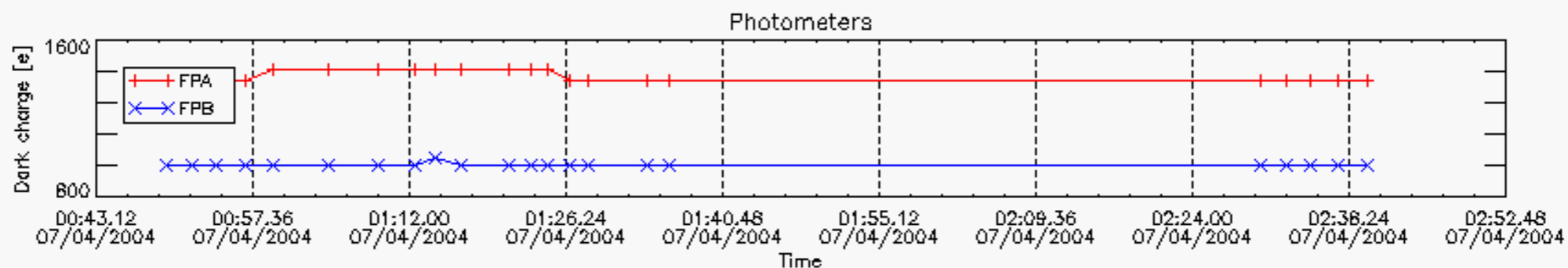
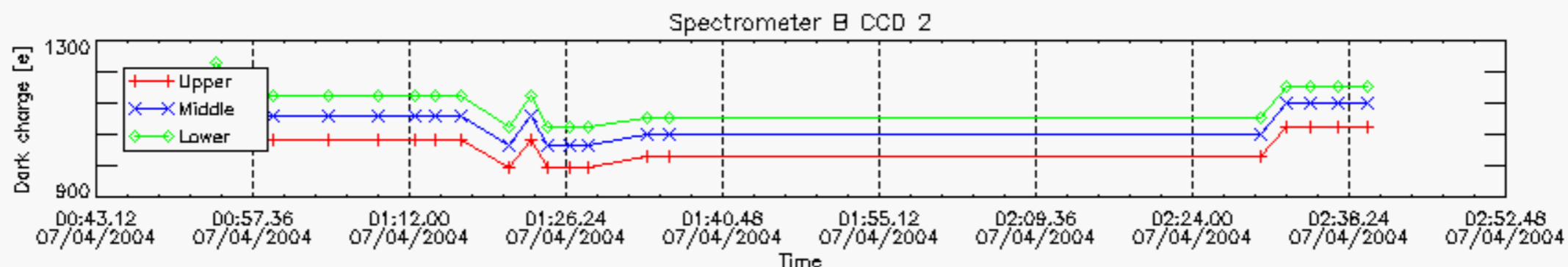
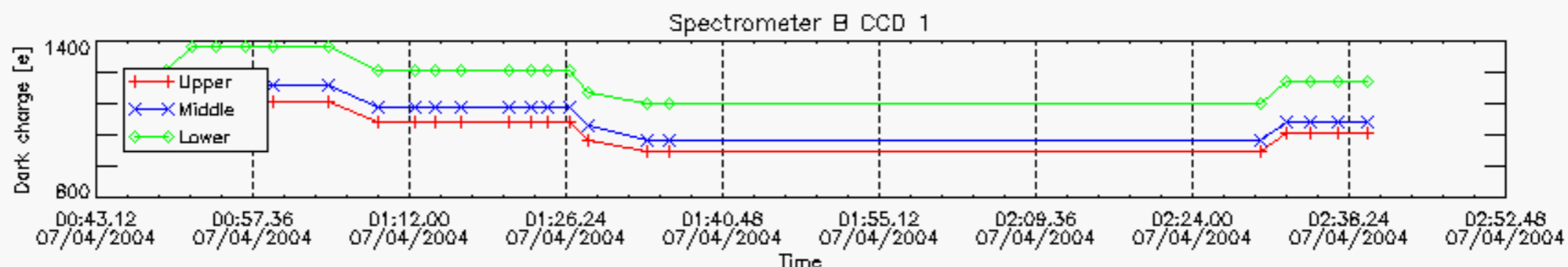
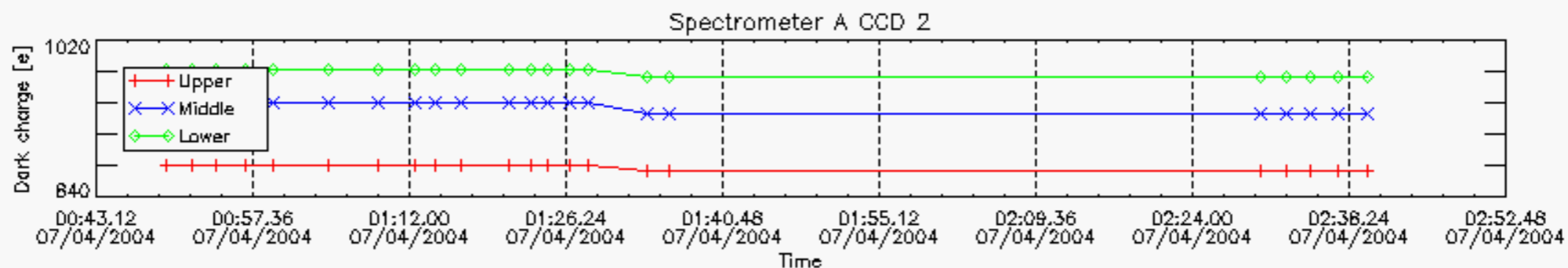
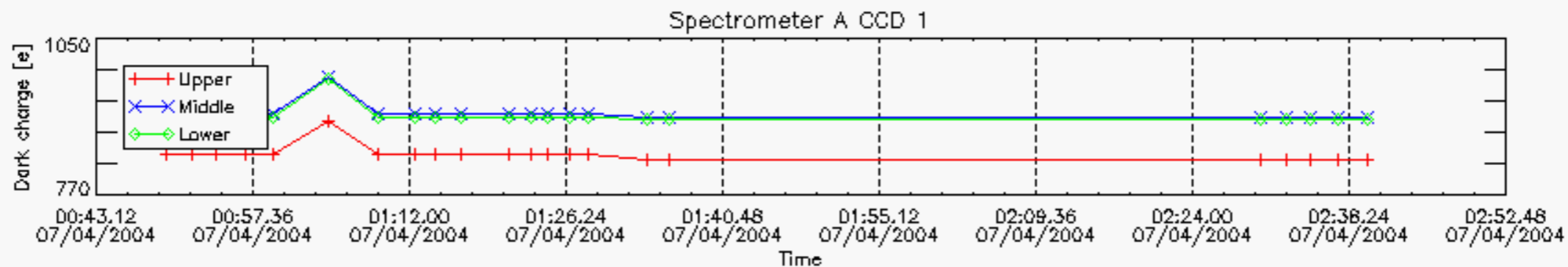
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.1	1447.0	1462.0	1448.5
St. deviation:	4.6218	6.9860	7.1446	9.5205
Maximum:	1498.0	1529.0	1507.0	1508.0
Minimum:	1449.0	1413.0	1444.0	1430.0
Number of data:	28150.	28150.	33450.	33450.

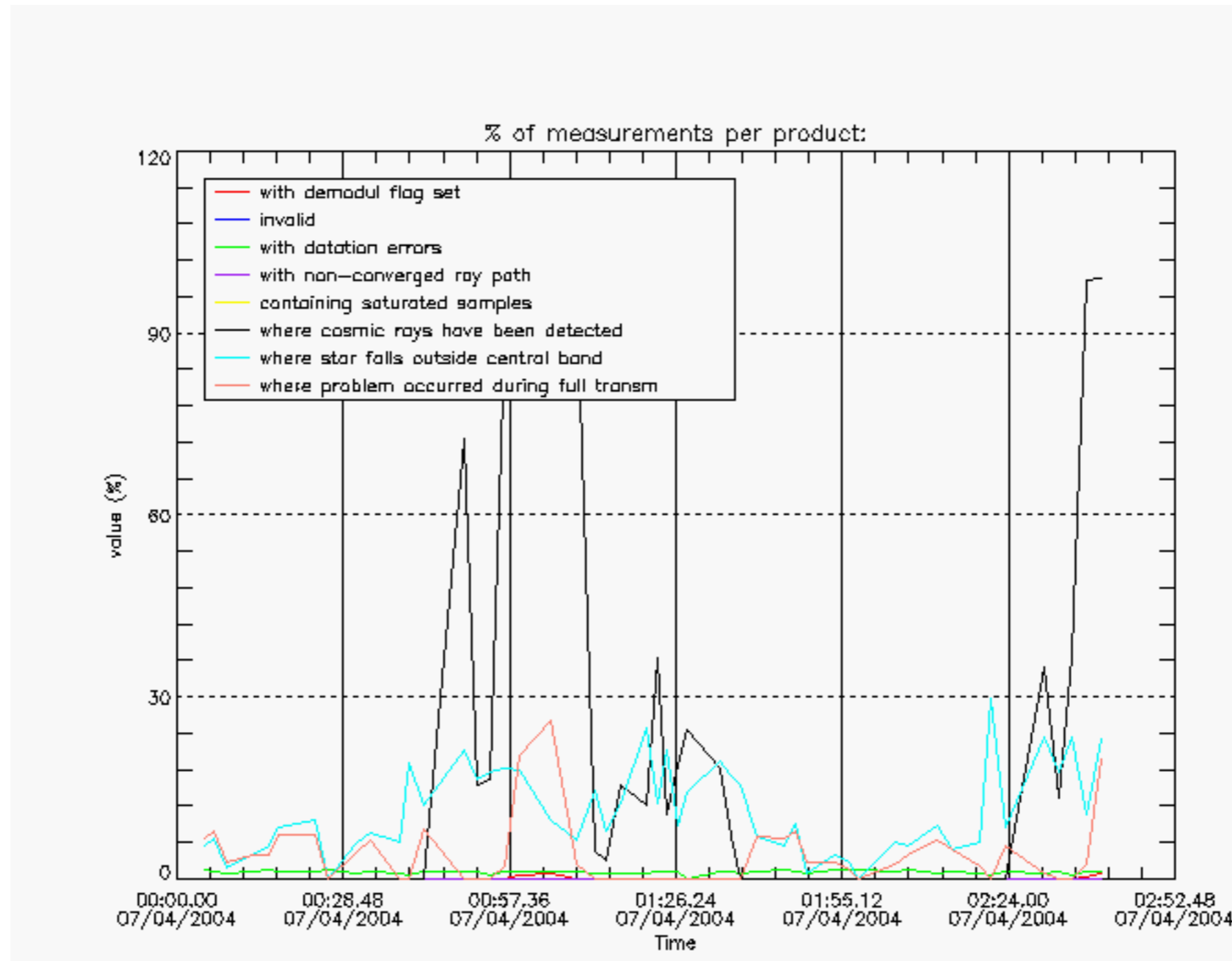




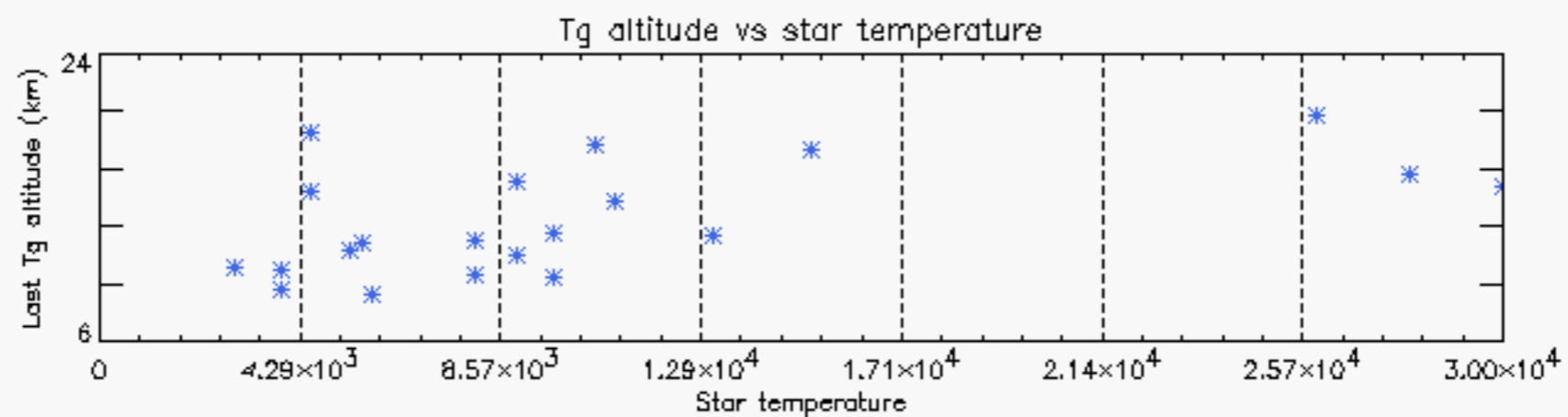
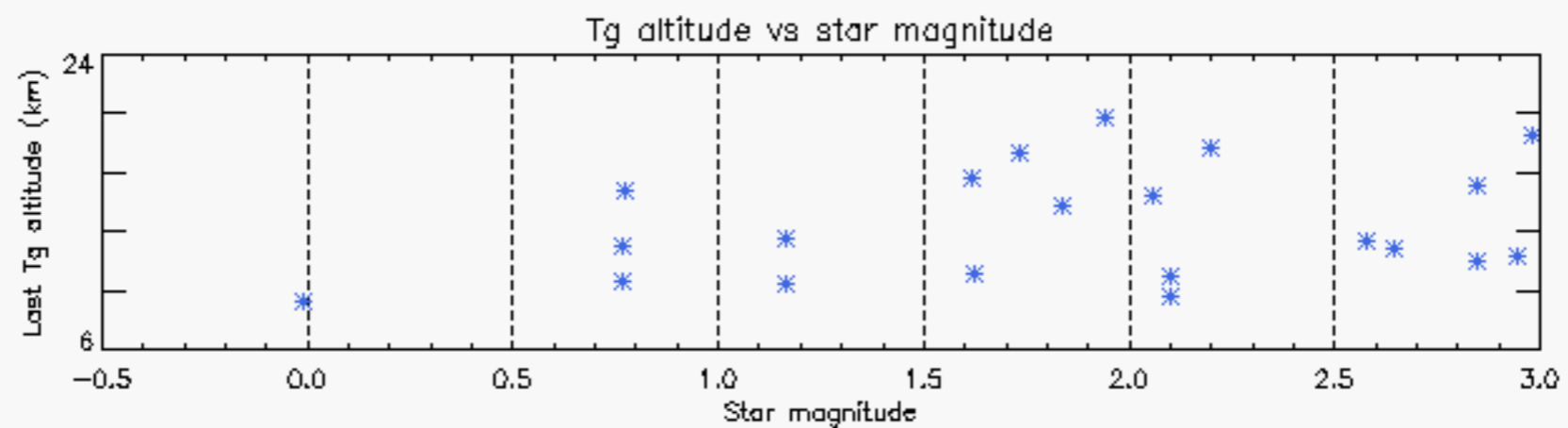
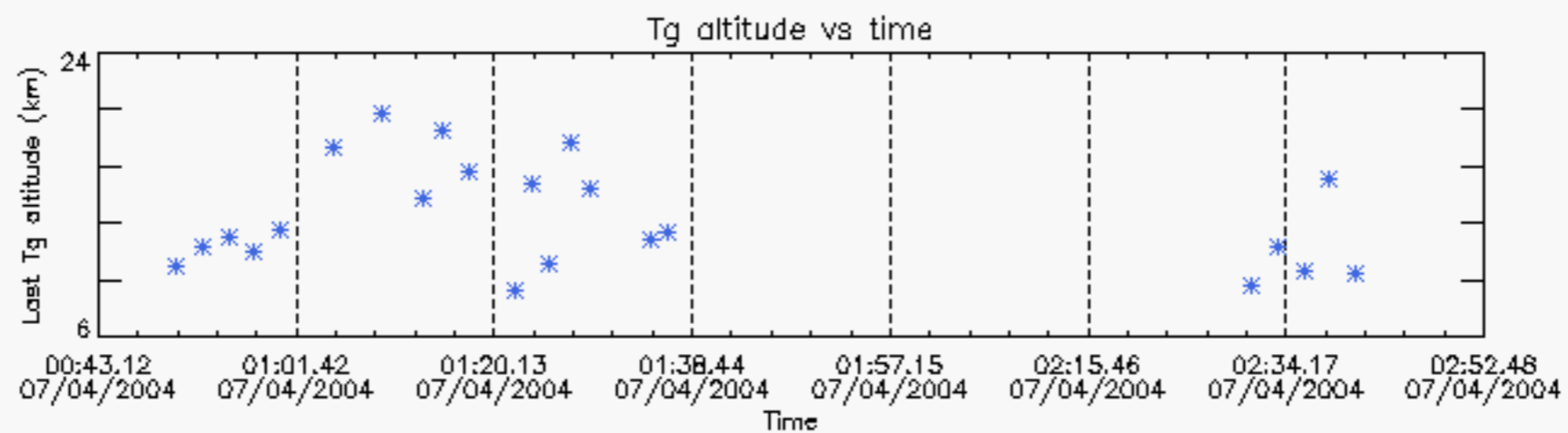




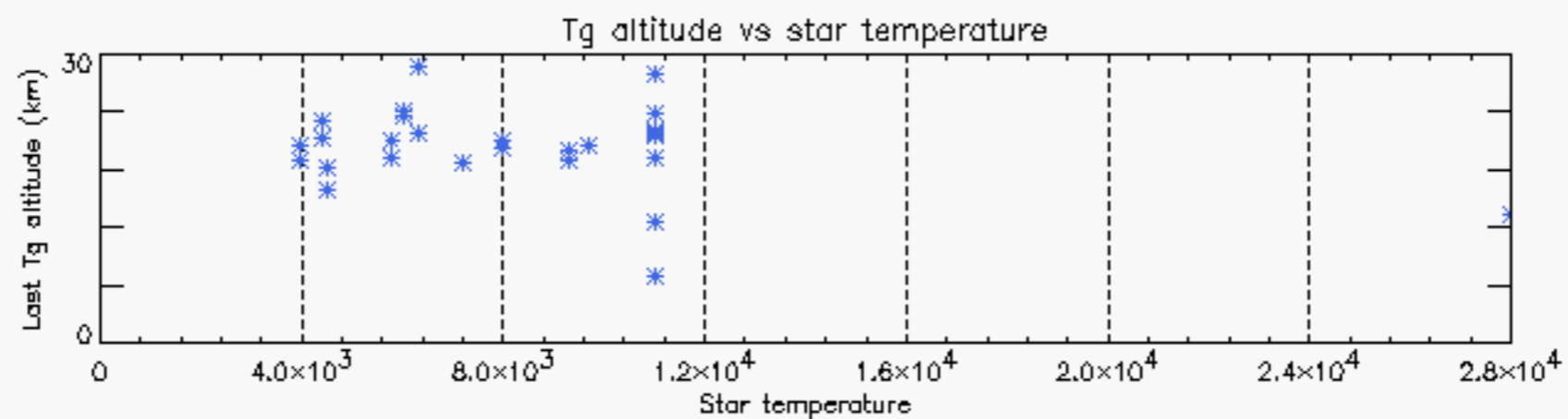
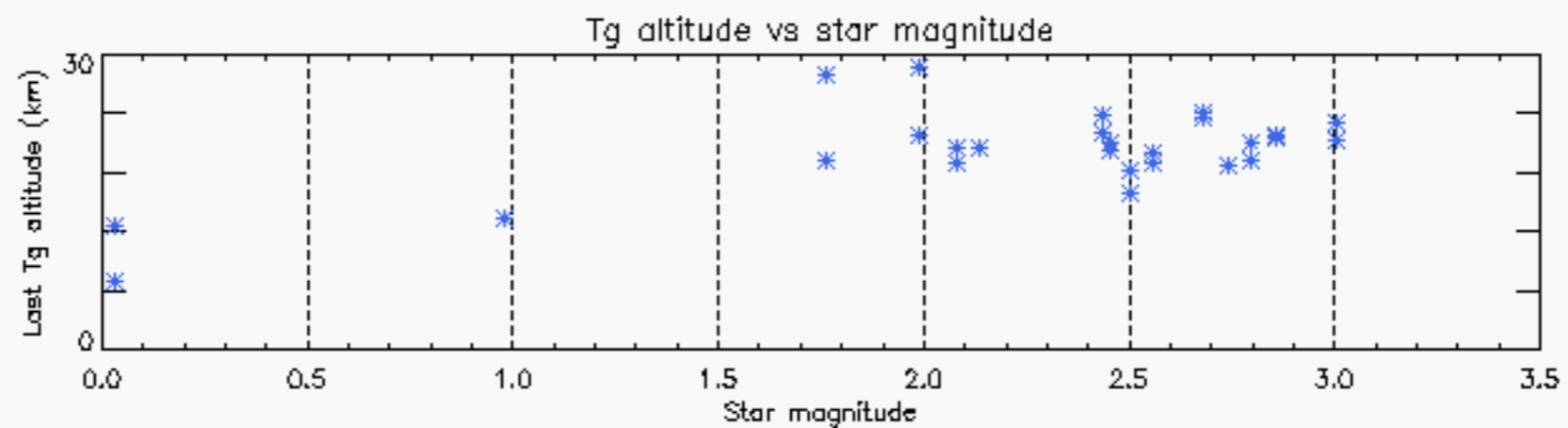
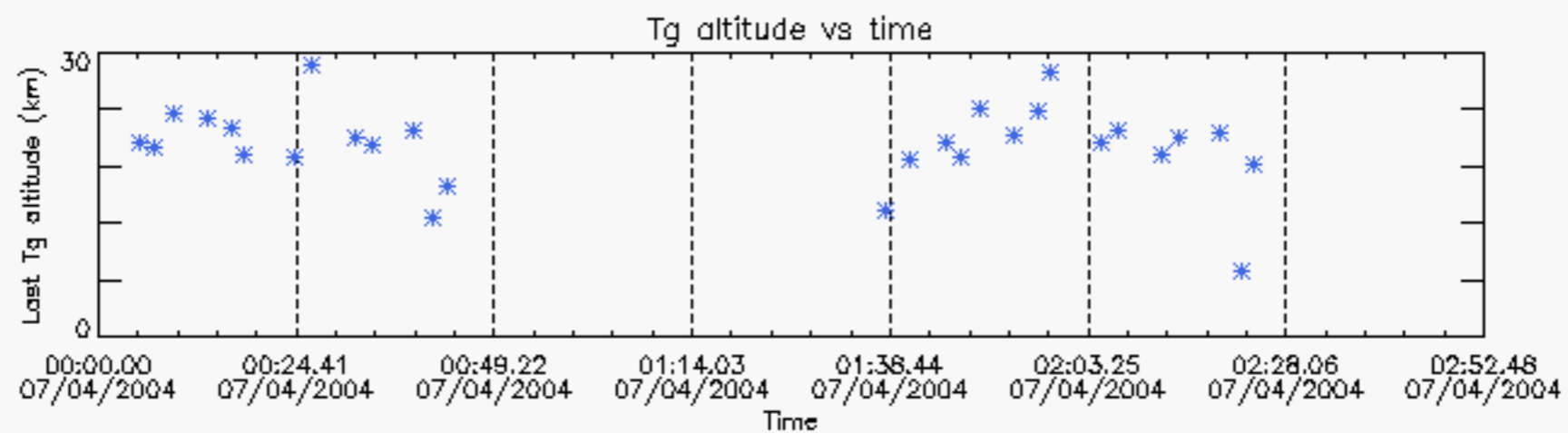




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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/data4_2/GOMOS/level0/GOM_NL__0PNPDE20040401_012141_000060872025_00332_10907_0118.N1
 1;-4605.9; 01-APR-2004 01:21:41; Dark ; 50.5; 169; 46Gam Hya ; 2.99; 4700;occ; 101; 0;10907
 2;-4448.9; 01-APR-2004 01:24:18; Dark ; 48.0; 163; 7Del Crv ; 2.94; 11000;occ; 96; 0;10907
 3;-4349.5; 01-APR-2004 01:25:57; Dark ; 63.5; 15; 67Alp Vir ; 0.98; 28000;occ; 127; 0;10907
 4;-4154.5; 01-APR-2004 01:29:12; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;10907
 5;-3877.5; 01-APR-2004 01:33:49; Bright; 40.5; 62; 94Bet Leo ; 2.14; 9700;occ; 81; 0;10907
 6;-3781.2; 01-APR-2004 01:35:26; Bright; 38.5; 96; 68Del Leo ; 2.56; 9300;occ; 77; 0;10907
 7;-3678.3; 01-APR-2004 01:37:09; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;10907
 8;-3559.4; 01-APR-2004 01:39:08; Bright; 67.5; 111; 8Eta Boo ; 2.68; 6000;occ; 135; 0;10907
 9;-3371.6; 01-APR-2004 01:42:15; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;10907
10;-3190.2; 01-APR-2004 01:45:17; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;10907
11;-3080.2; 01-APR-2004 01:47:07; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;10907
12;-2704.1; 01-APR-2004 01:53:23; Bright; 45.0; 60; 7Bet UMi ; 2.08; 3950;occ; 90; 0;10907
13;-2598.5; 01-APR-2004 01:55:08; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;10907
14;-2198.5; 01-APR-2004 02:01:48; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;10907
15;-2119.4; 01-APR-2004 02:03:08; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;10907
16;-1838.4; 01-APR-2004 02:07:49; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;10907
17;-1724.3; 01-APR-2004 02:09:43; Bright; 45.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 90; 0;10907
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29; 811.9; 01-APR-2004 06:13:11; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;10910  
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14;-1842.2; 02-APR-2004 13:20:19; Bright; 48.0; 144; 18Del Cyg ; 2.86; 11000;occ; 96; 0;10928
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22;-160.1; 02-APR-2004 13:48:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10928
23; 102.1; 02-APR-2004 13:52:43; Dark ; 64.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 129; 0;10929
24; 283.5; 02-APR-2004 13:55:45; Dark ; 52.5; 178; Iot1Sco ; 3.02; 6550;occ; 105; 0;10929
25; 416.2; 02-APR-2004 13:57:57; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;10929
26; 529.2; 02-APR-2004 13:59:50; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;10929
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31; 1022.2; 02-APR-2004 15:48:39; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;10930
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23; 111.5; 03-APR-2004 01:37:04; Dark ; 58.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 116; 0;10936
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