

# GOMOS Daily Report 21-APR-2004

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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	22APR2004 04:03:56
Data source version	GOMOS/4.02
Start time of products	21-APR-2004 (21APR2004 00:00:00)
Stop time of products	22-APR-2004 (22APR2004 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

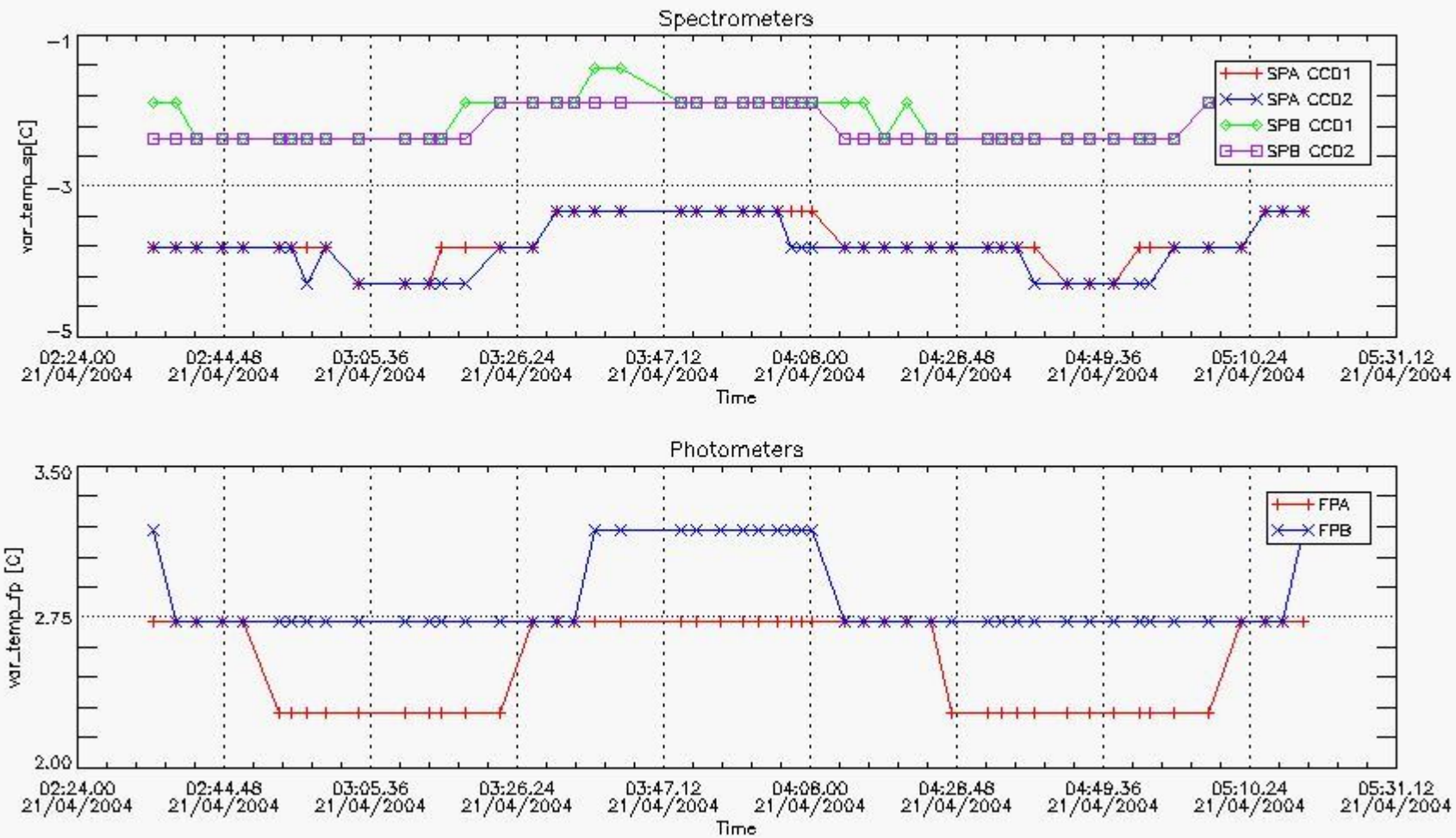
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040421_023451_000000442026_00118_11194_0000.N1	21-APR-2004 02:34:51	Dark	43.500	106	9Bet Crv	2.6480	5600.0	87	11194	No
GOM_TRA_1PNPDE20040421_023754_000000462026_00118_11194_0001.N1	21-APR-2004 02:37:54	Bright	46.000	15	67Alp Vir	0.97600	28000.	92	11194	No
GOM_TRA_1PNPDE20040421_024056_000000412026_00118_11194_0002.N1	21-APR-2004 02:40:56	Bright	41.000	121	29Gam Vir	2.7400	7200.0	82	11194	No
GOM_TRA_1PNPDE20040421_024433_000000412026_00118_11194_0003.N1	21-APR-2004 02:44:33	Bright	40.500	138	47Eps Vir	2.8280	4700.0	81	11194	No
GOM_TRA_1PNPDE20040421_024729_000000442026_00118_11194_0004.N1	21-APR-2004 02:47:29	Bright	44.000	111	8Eta Boo	2.6800	6000.0	88	11194	No
GOM_TRA_1PNPDE20040421_025230_000000392026_00118_11194_0005.N1	21-APR-2004 02:52:30	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	11194	No
GOM_TRA_1PNPDE20040421_025427_000000392026_00118_11194_0006.N1	21-APR-2004 02:54:27	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	11194	No
GOM_TRA_1PNPDE20040421_025636_000000402026_00118_11194_0007.N1	21-APR-2004 02:56:36	Bright	40.000	87	64Gam UMa	2.4330	11000.	80	11194	No
GOM_TRA_1PNPDE20040421_025908_000000412026_00118_11194_0008.N1	21-APR-2004 02:59:08	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	11194	No
GOM_TRA_1PNPDE20040421_030349_000000432026_00118_11194_0009.N1	21-APR-2004 03:03:49	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	11194	No
GOM_TRA_1PNPDE20040421_031025_000000642026_00118_11194_0010.N1	21-APR-2004 03:10:25	Bright	64.000	69	33Gam Dra	2.2310	3800.0	128	11194	No
GOM_TRA_1PNPDE20040421_031402_000000432026_00118_11194_0011.N1	21-APR-2004 03:14:02	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	11194	No
GOM_TRA_1PNPDE20040421_031533_000000382026_00118_11194_0012.N1	21-APR-2004 03:15:33	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	11194	No
GOM_TRA_1PNPDE20040421_031907_000001362026_00118_11194_0013.N1	21-APR-2004 03:19:07	Bright	136.00	5	3Alp Lyr	0.033000	11000.	272	11194	No
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GOM_TRA_1PNPDE20040421_032835_000000432026_00118_11194_0015.N1	21-APR-2004 03:28:35	Dark	43.000	90	54Alp Peg	2.4870	11000.	86	11194	No
GOM_TRA_1PNPDE20040421_033200_000000592026_00118_11194_0016.N1	21-APR-2004 03:32:00	Dark	58.500	61	8Eps Peg	2.1000	3900.0	117	11194	No
GOM_TRA_1PNPDE20040421_033426_000000532026_00118_11194_0017.N1	21-APR-2004 03:34:26	Dark	52.500	162	34Alp Aqr	2.9440	5350.0	105	11194	No
GOM_TRA_1PNPDE20040421_033724_000000572026_00118_11194_0018.N1	21-APR-2004 03:37:24	Dark	56.500	154	22Bet Aqr	2.8990	5700.0	113	11194	No
GOM_TRA_1PNPDE20040421_034105_000000472026_00118_11194_0019.N1	21-APR-2004 03:41:05	Dark	46.500	18	24Alp PsA	1.1660	9700.0	93	11194	No
GOM_TRA_1PNPDE20040421_034942_000000422026_00118_11194_0020.N1	21-APR-2004 03:49:42	Dark	42.000	148	Alp Tuc	2.8780	4100.0	84	11194	No
GOM_TRA_1PNPDE20040421_035153_000000422026_00119_11195_0021.N1	21-APR-2004 03:51:53	Dark	42.000	45	Alp Pav	1.9400	26000.	84	11195	No
GOM_TRA_1PNPDE20040421_035510_000000692026_00119_11195_0022.N1	21-APR-2004 03:55:10	Dark	68.500	103	38Zet Sgr	2.6000	9700.0	137	11195	No
GOM_TRA_1PNPDE20040421_035829_000000742026_00119_11195_0023.N1	21-APR-2004 03:58:29	Dark	73.500	38	20Eps Sgr	1.8360	11000.	147	11195	No
GOM_TRA_1PNPDE20040421_040032_000000592026_00119_11195_0024.N1	21-APR-2004 04:00:32	Dark	59.000	40	The Sco	1.8590	7100.0	118	11195	No
GOM_TRA_1PNPDE20040421_040327_000000452026_00119_11195_0025.N1	21-APR-2004 04:03:27	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	11195	No
GOM_TRA_1PNPDE20040421_040523_000000422026_00119_11195_0026.N1	21-APR-2004 04:05:23	Dark	42.000	20	Bet Cru	1.2530	30000.	84	11195	No
GOM_TRA_1PNPDE20040421_040644_000000452026_00119_11195_0027.N1	21-APR-2004 04:06:44	Dark	44.500	78	Alp Lup	2.3040	28000.	89	11195	No
GOM_TRA_1PNPDE20040421_040821_000000392026_00119_11195_0028.N1	21-APR-2004 04:08:21	Dark	38.500	64	Gam Cen	2.2000	10600.	77	11195	No
GOM_TRA_1PNPDE20040421_041246_000000712026_00119_11195_0029.N1	21-APR-2004 04:12:46	Dark	71.000	80	7Del Sco	2.3160	30000.	142	11195	No
GOM_TRA_1PNPDE20040421_041529_000000442026_00119_11195_0030.N1	21-APR-2004 04:15:29	Dark	43.500	106	9Bet Crv	2.6480	5600.0	87	11195	No
GOM_TRA_1PNPDE20040421_041834_000000432026_00119_11195_0000.N1	21-APR-2004 04:18:34	Bright	42.500	15	67Alp Vir	0.97600	28000.	85	11195	No
GOM_TRA_1PNPDE20040421_042135_000000372026_00119_11195_0001.N1	21-APR-2004 04:21:35	Bright	37.000	121	29Gam Vir	2.7400	7200.0	74	11195	No
GOM_TRA_1PNPDE20040421_042510_000000392026_00119_11195_0002.N1	21-APR-2004 04:25:10	Bright	38.500	138	47Eps Vir	2.8280	4700.0	77	11195	No
GOM_TRA_1PNPDE20040421_042804_000000452026_00119_11195_0003.N1	21-APR-2004 04:28:04	Bright	45.000	111	8Eta Boo	2.6800	6000.0	90	11195	No
GOM_TRA_1PNPDE20040421_043307_000000382026_00119_11195_0004.N1	21-APR-2004 04:33:07	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11195	No
GOM_TRA_1PNPDE20040421_043504_000000382026_00119_11195_0005.N1	21-APR-2004 04:35:04	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	11195	No
GOM_TRA_1PNPDE20040421_043715_000000382026_00119_11195_0006.N1	21-APR-2004 04:37:15	Bright	37.500	87	64Gam UMa	2.4330	11000.	75	11195	No
GOM_TRA_1PNPDE20040421_043945_000000392026_00119_11195_0007.N1	21-APR-2004 04:39:45	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	11195	No
GOM_TRA_1PNPDE20040421_044426_000000392026_00119_11195_0008.N1	21-APR-2004 04:44:26	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	11195	No
GOM_TRA_1PNPDE20040421_044739_000000372026_00119_11195_0009.N1	21-APR-2004 04:47:39	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	11195	No
GOM_TRA_1PNPDE20040421_045100_000000662026_00119_11195_0010.N1	21-APR-2004 04:51:00	Bright	65.500	69	33Gam Dra	2.2310	3800.0	131	11195	No
GOM_TRA_1PNPDE20040421_045438_000000422026_00119_11195_0011.N1	21-APR-2004 04:54:38	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	11195	No
GOM_TRA_1PNPDE20040421_045609_000000522026_00119_11195_0012.N1	21-APR-2004 04:56:09	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	11195	No
GOM_TRA_1PNPDE20040421_045942_000001432026_00119_11195_0013.N1	21-APR-2004 04:59:42	Bright	143.00	5	3Alp Lyr	0.033000	11000.	286	11195	No
GOM_TRA_1PNPDE20040421_050437_000000712026_00119_11195_0014.N1	21-APR-2004 05:04:37	Dark	70.500	92	53Eps Cyg	2.5000	4500.0	141	11195	No
GOM_TRA_1PNPDE20040421_050911_000000472026_00119_11195_0015.N1	21-APR-2004 05:09:11	Dark	46.500	90	54Alp Peg	2.4870	11000.	93	11195	No
GOM_TRA_1PNPDE20040421_051236_000000592026_00119_11195_0016.N1	21-APR-2004 05:12:36	Dark	59.000	61	8Eps Peg	2.1000	3900.0	118	11195	No
GOM_TRA_1PNPDE20040421_051503_000000502026_00119_11195_0017.N1	21-APR-2004 05:15:03	Dark	50.000	162	34Alp Aqr	2.9440	5350.0	100	11195	No
GOM_TRA_1PNPDE20040421_051759_000000582026_00119_11195_0018.N1	21-APR-2004 05:17:59	Dark	58.000	154	22Bet Aqr	2.8990	5700.0	116	11195	No

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



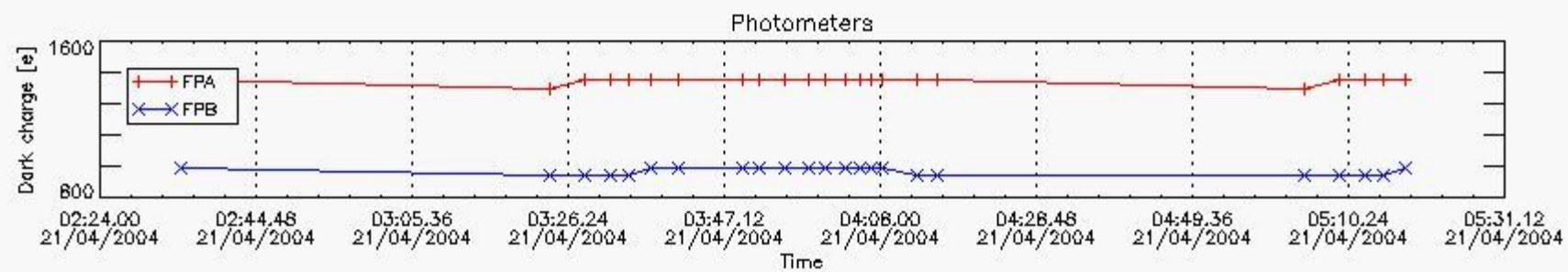
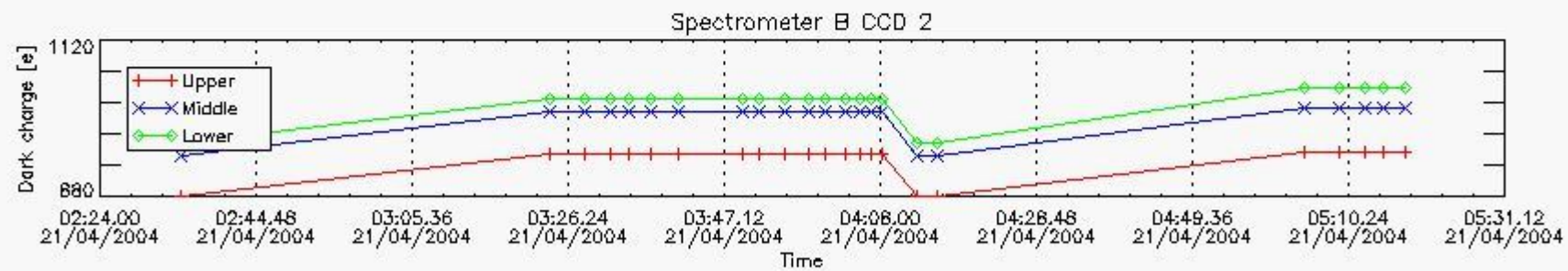
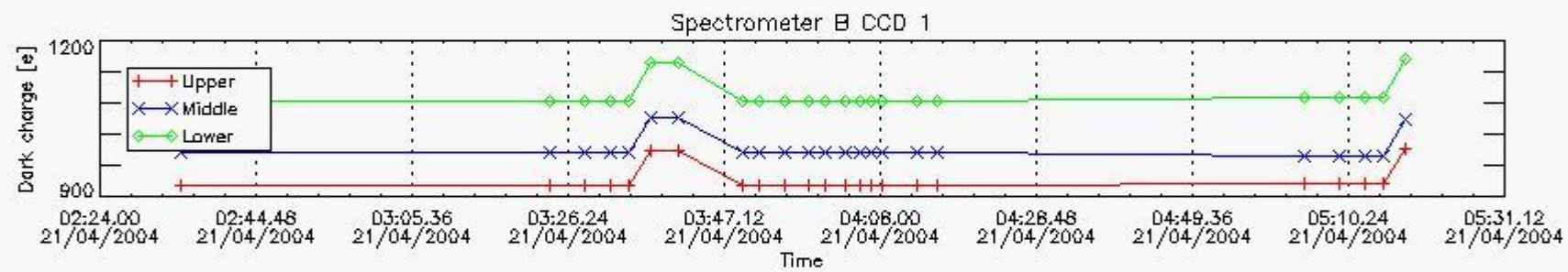
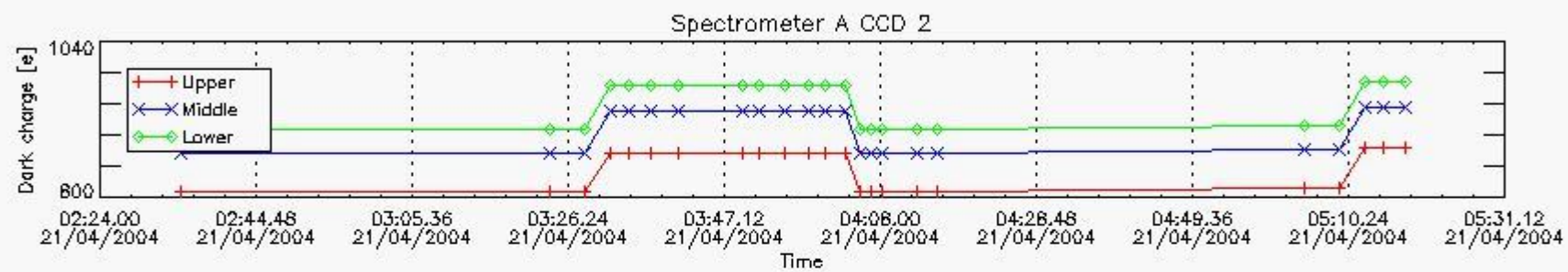
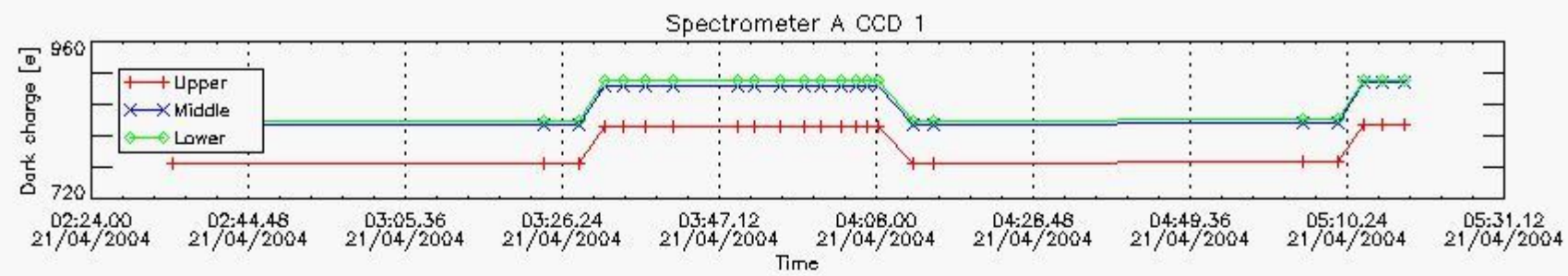
#### 4. Overview of dark signal processing per product

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

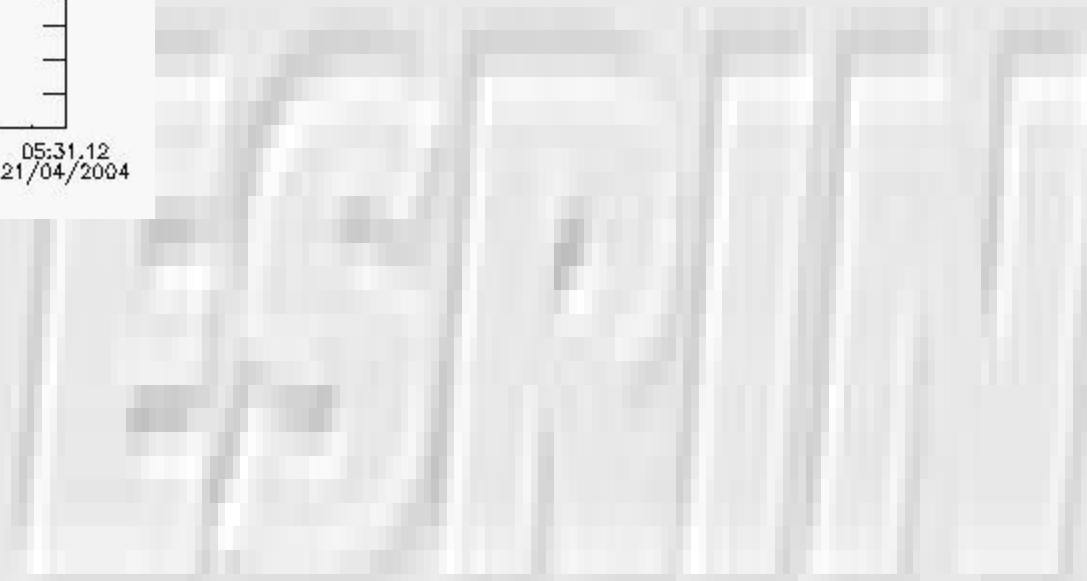
##### 4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



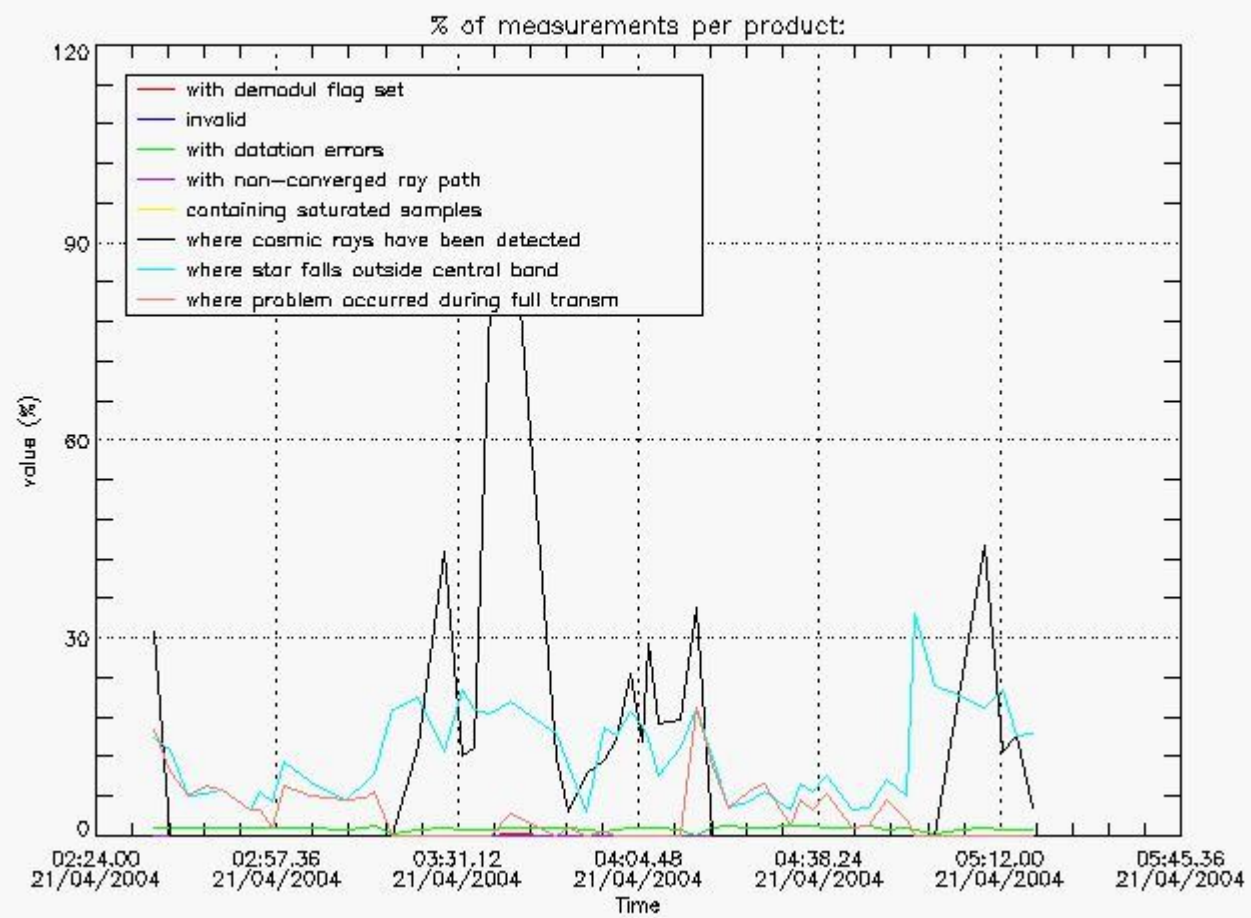
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	8.00000 %
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



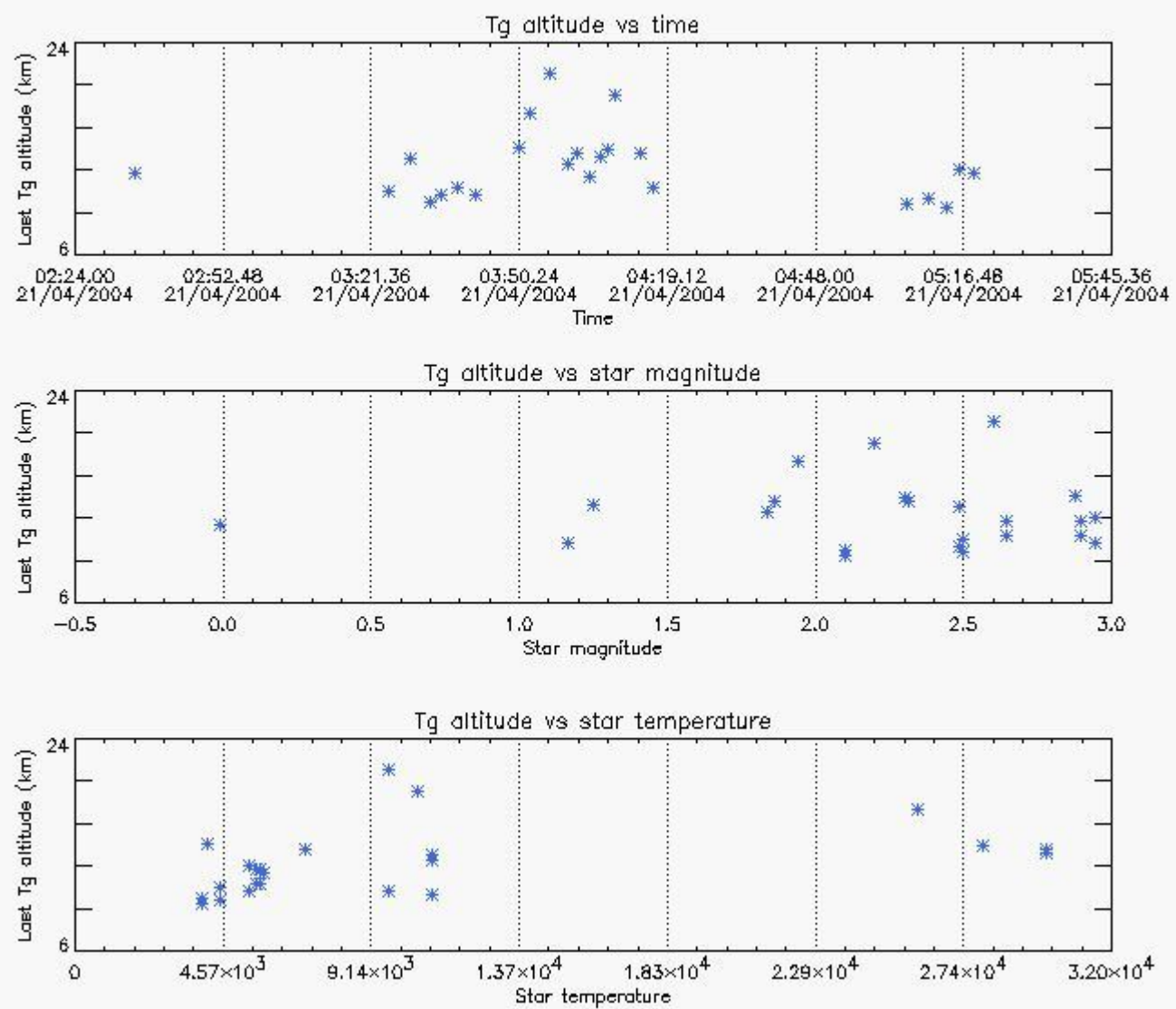
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.492	19.079
St. deviation:	2.9352	4.0706
Maximum:	21.369	23.240
Minimum:	9.9671	5.1482
Number of data:	23.000	27.000

### 6.2 Plot for DARK limb products

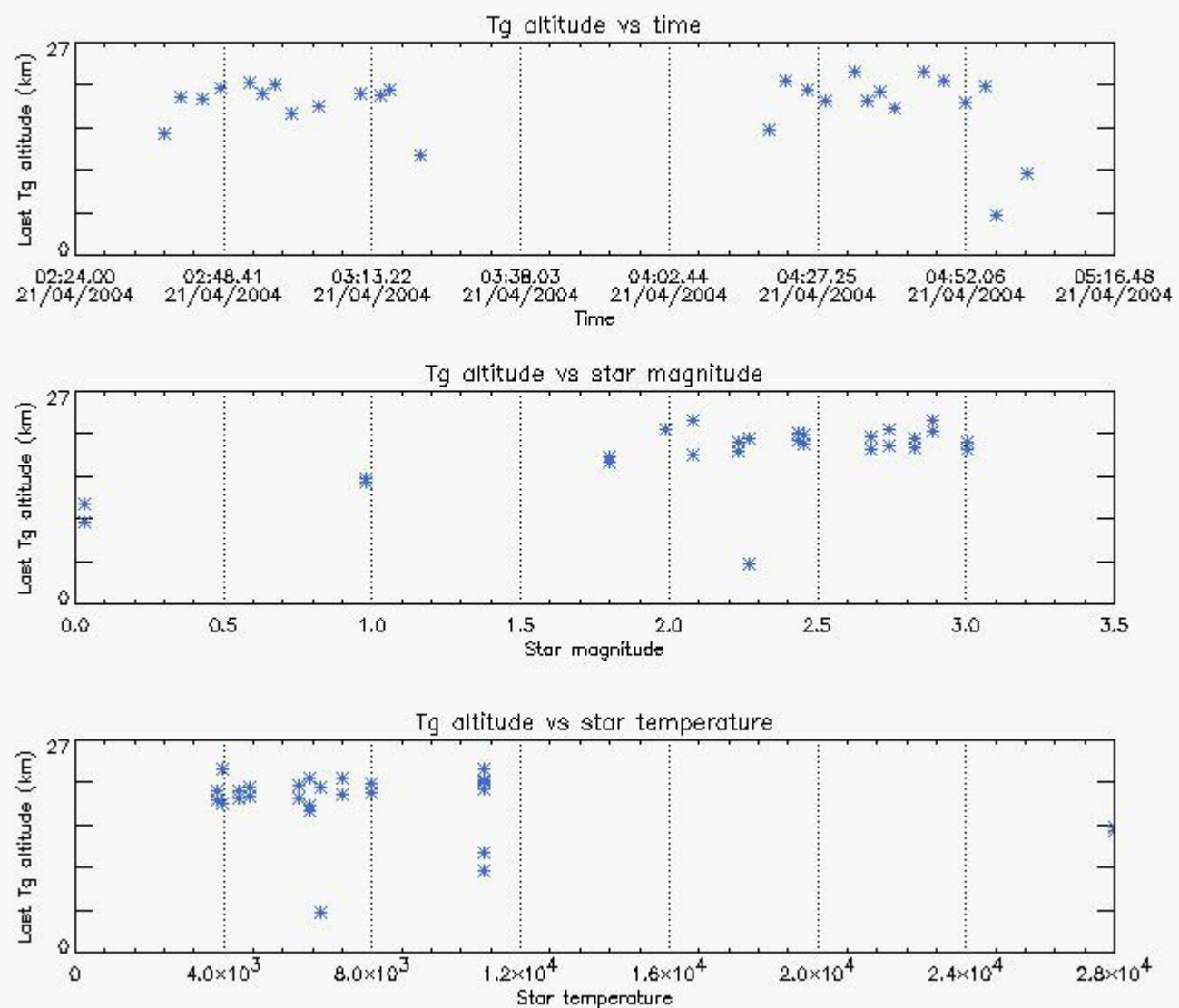
Tangent altitude at which the star is lost



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

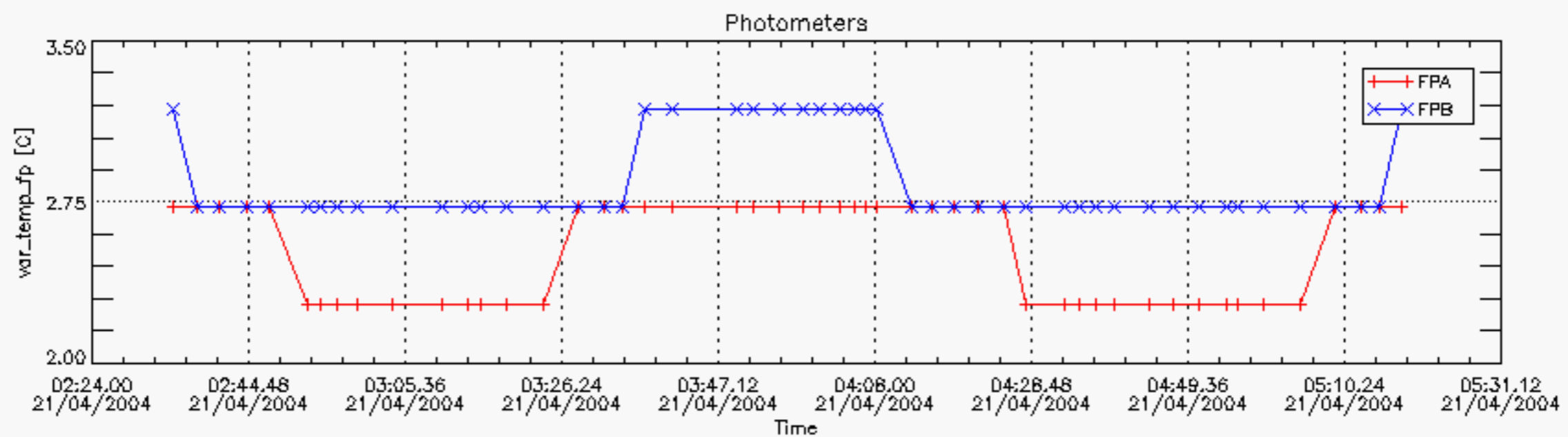
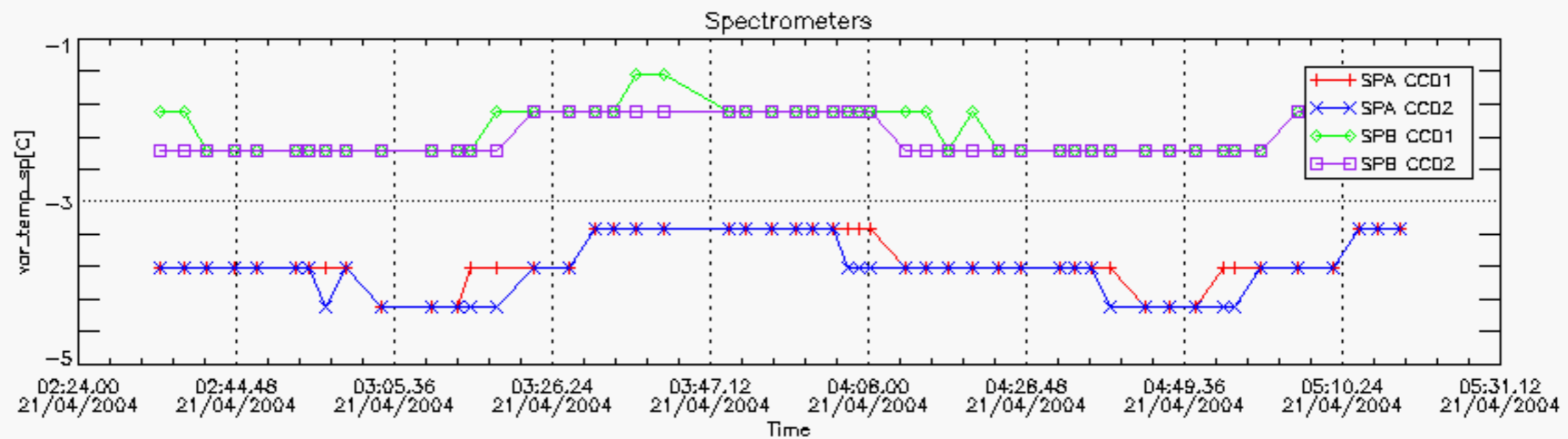
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

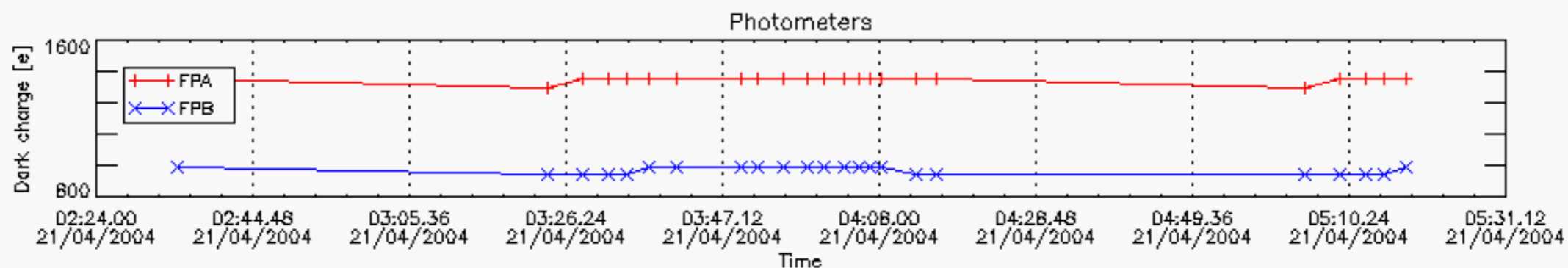
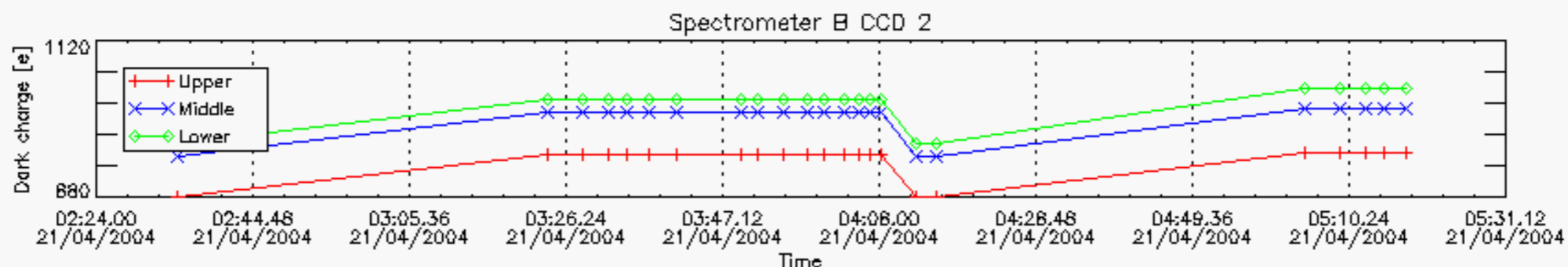
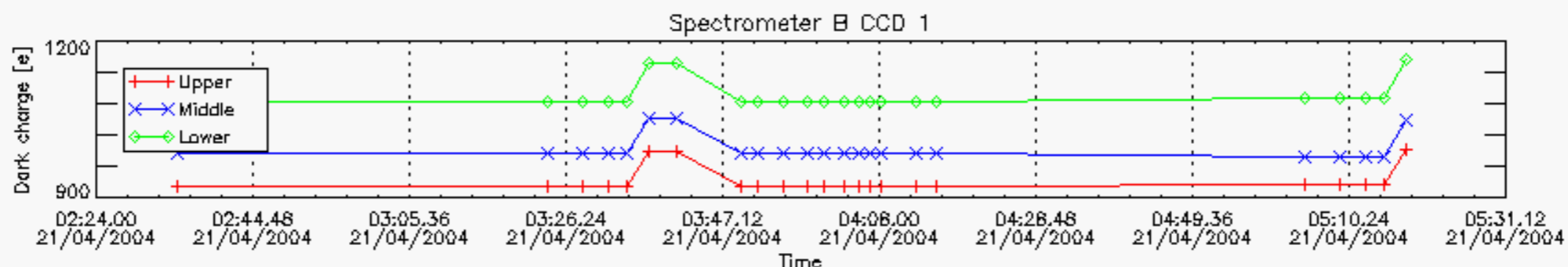
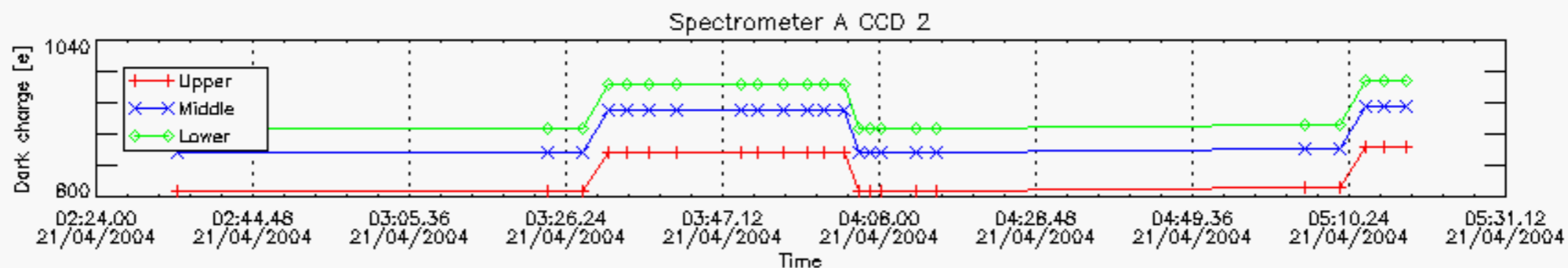
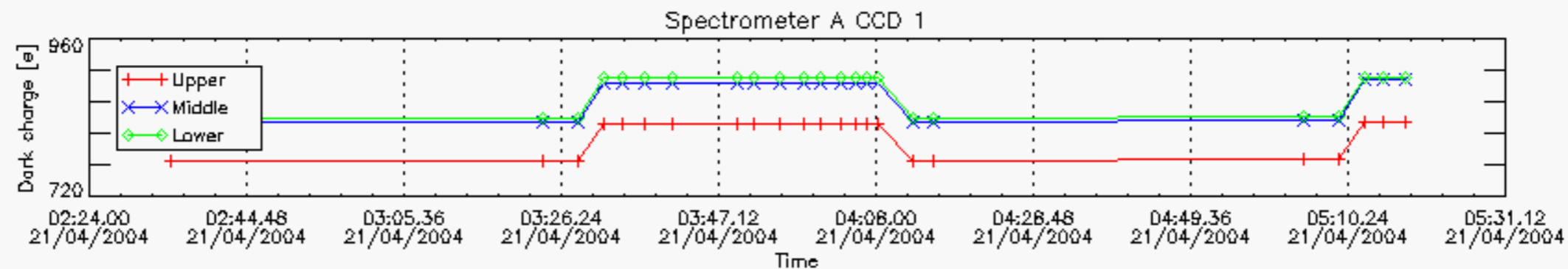
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.8	1447.7	1461.7	1447.4
St. deviation:	4.9902	6.0665	6.7779	7.4887
Maximum:	1494.0	1484.0	1513.0	1503.0
Minimum:	1437.0	1424.0	1448.0	1427.0
Number of data:	29900.	29900.	33650.	33650.

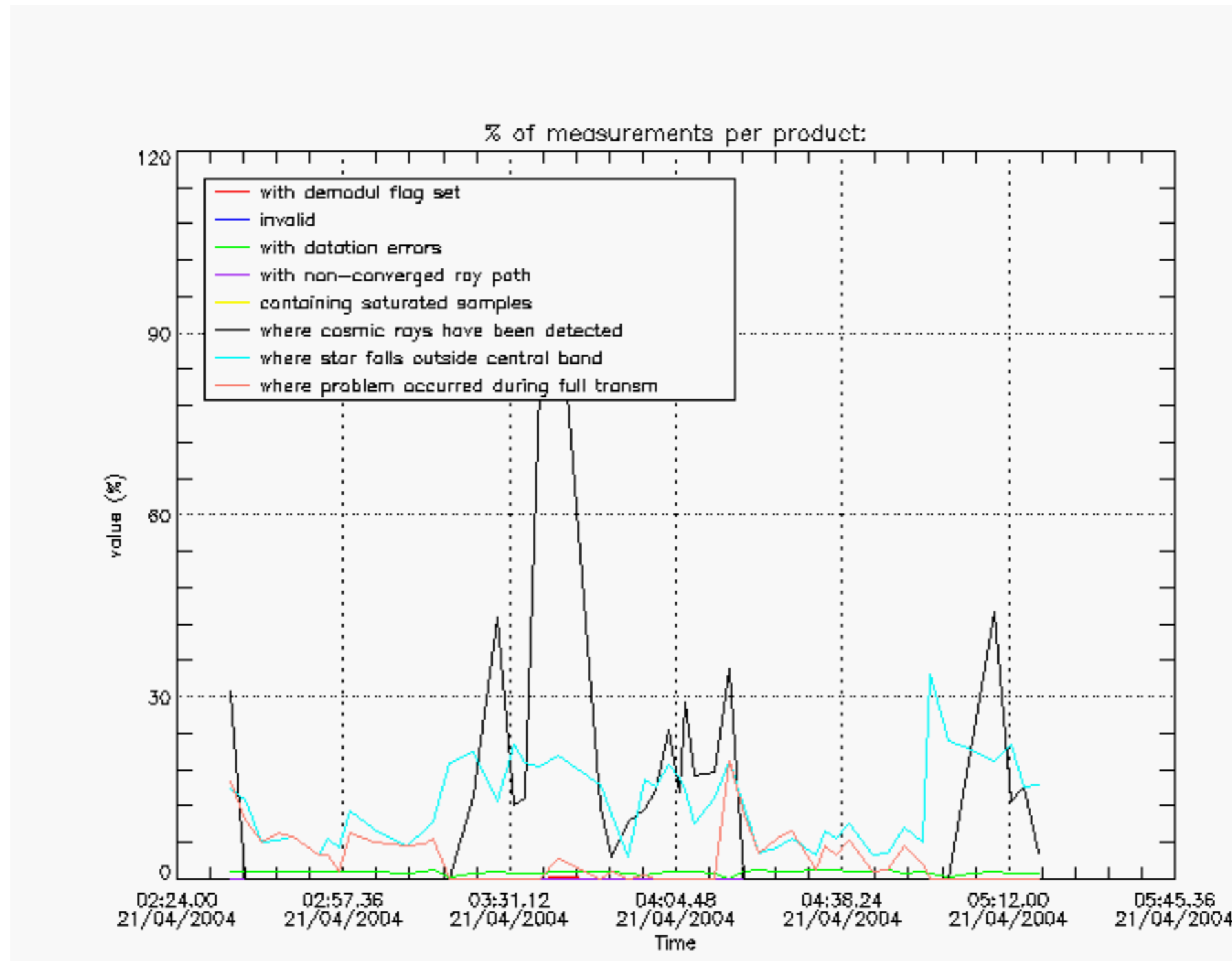




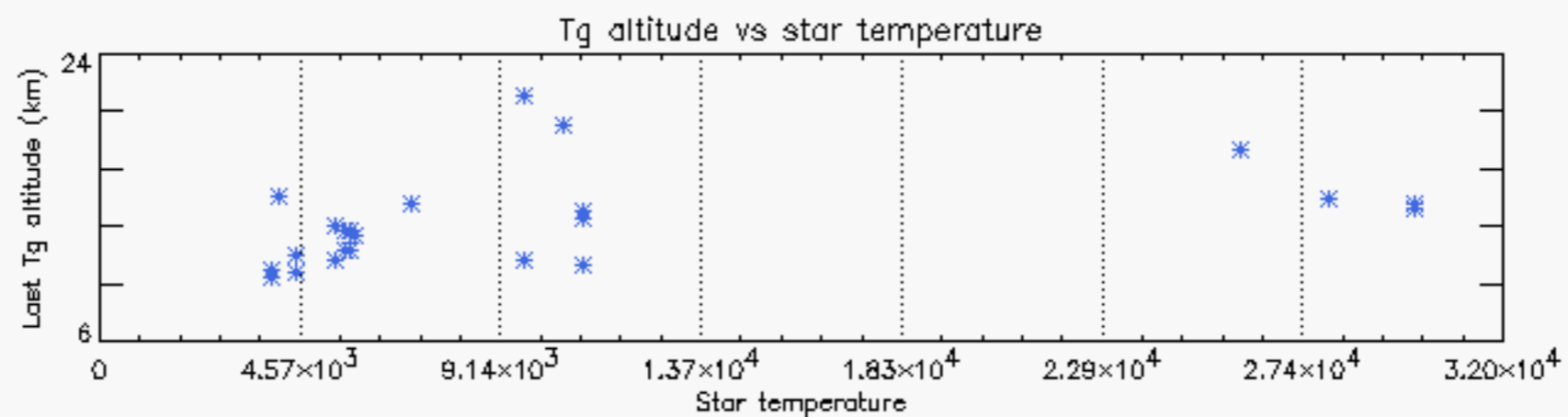
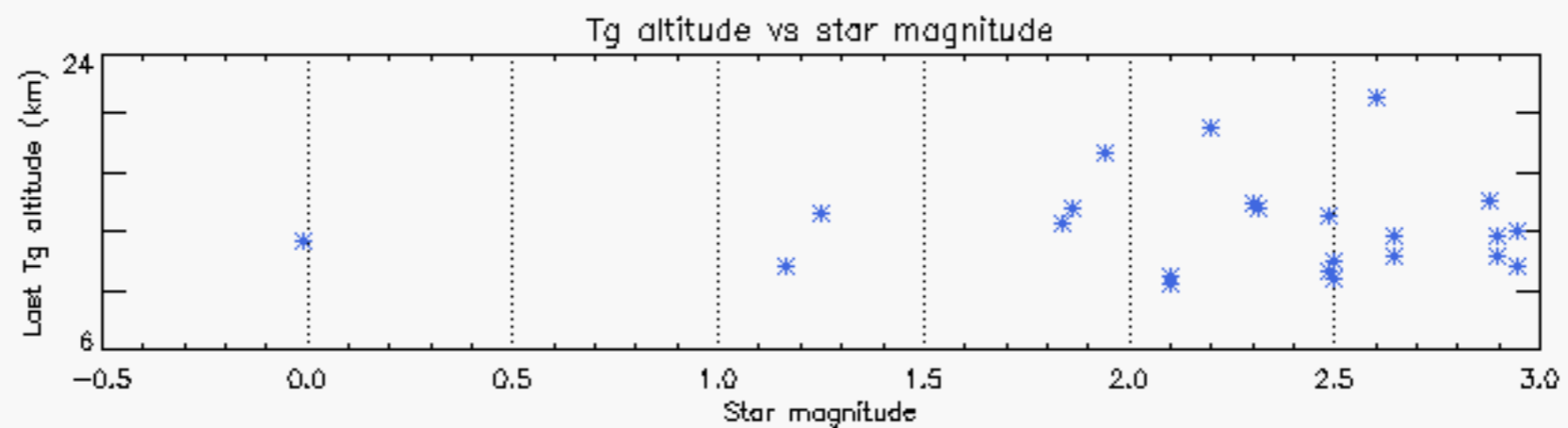
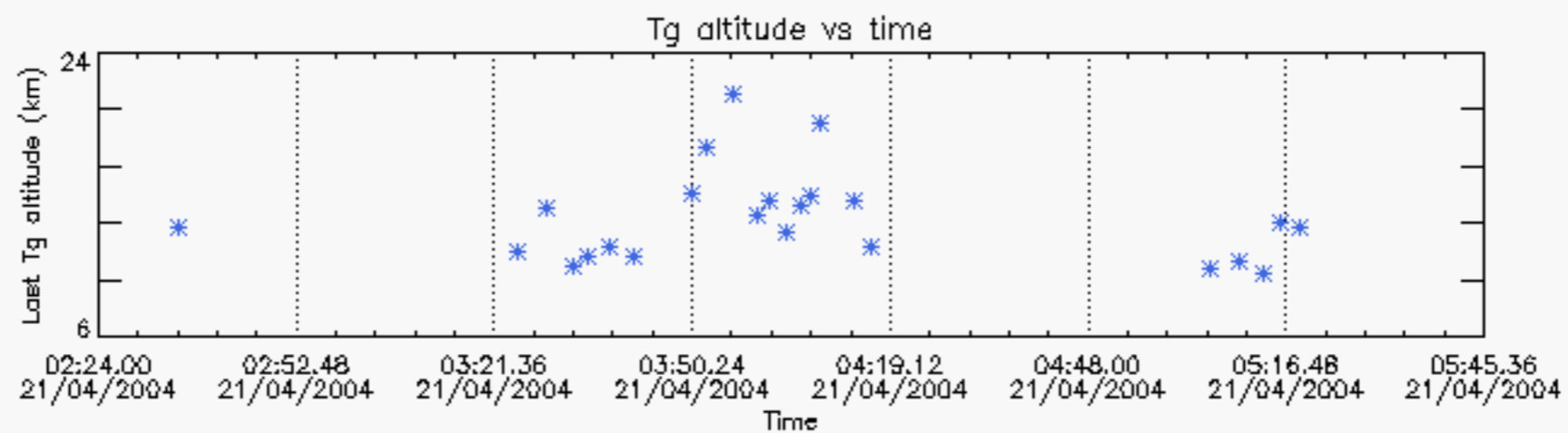




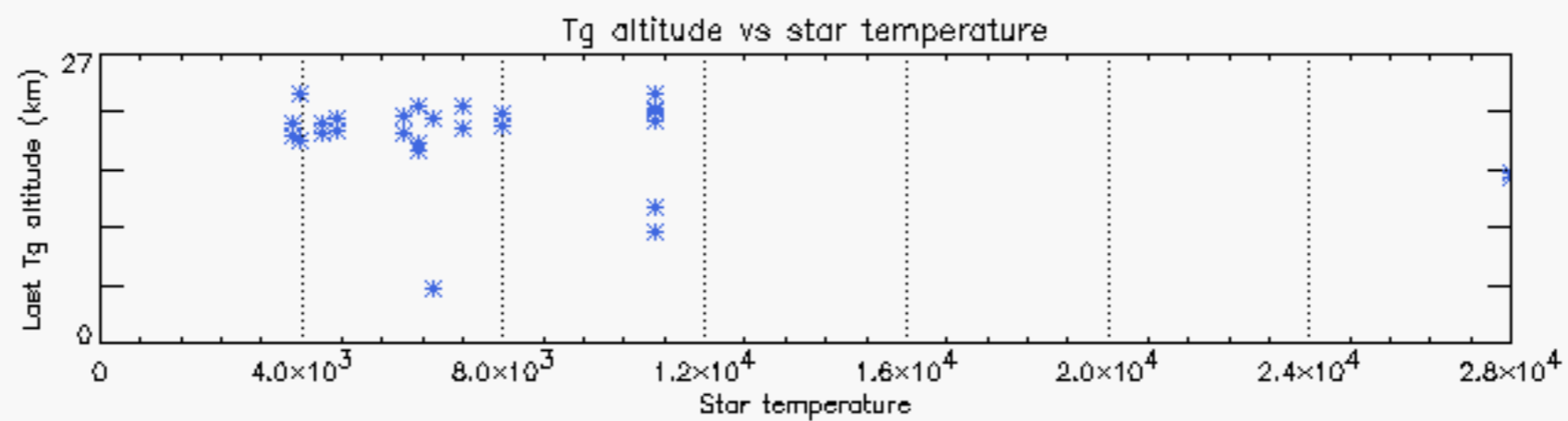
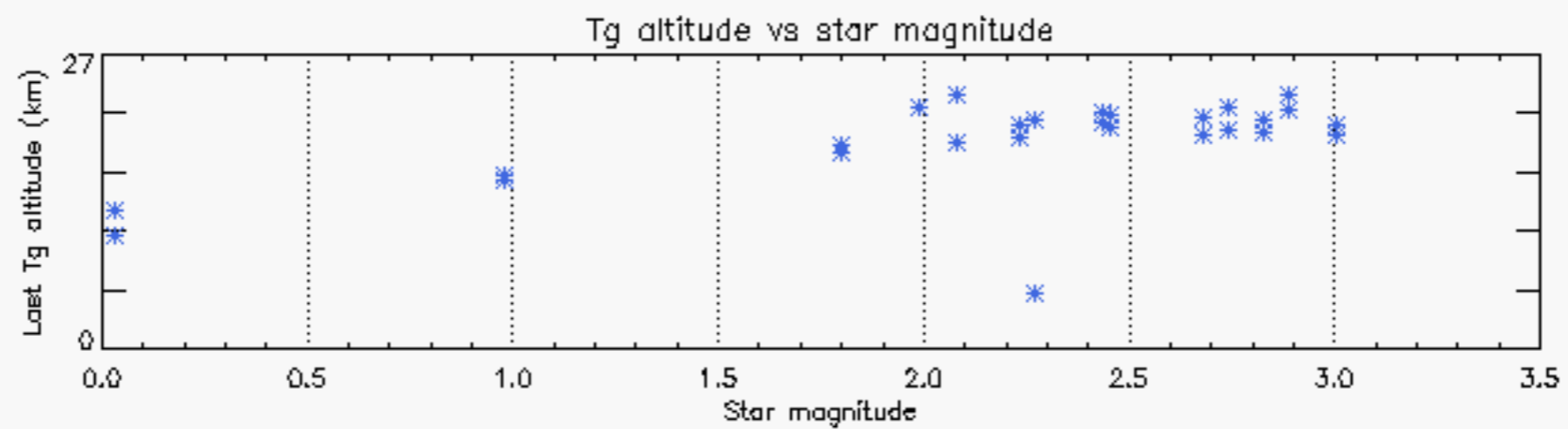
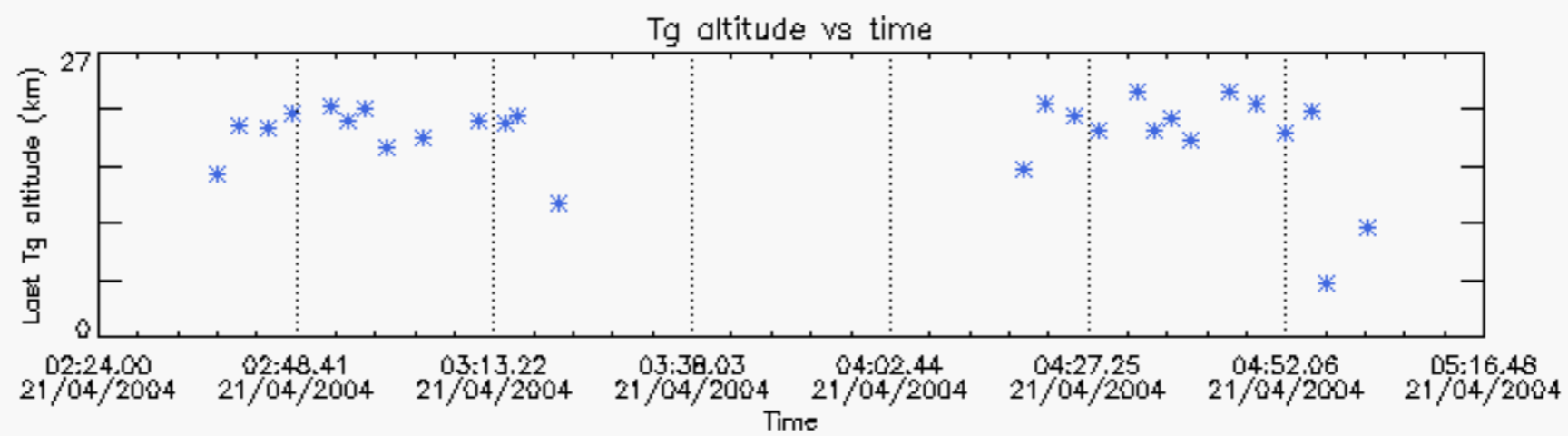




Tangent altitude at which the star is lost



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
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