

# GOMOS Daily Report 13-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	14APR2004 06:00:26
Data source version	GOMOS/4.02
Start time of products	13-APR-2004 (13APR2004 00:00:00)
Stop time of products	14-APR-2004 (14APR2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	34
Nb of prods with errors	0

## 2. Summary of products arrived in PCF

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

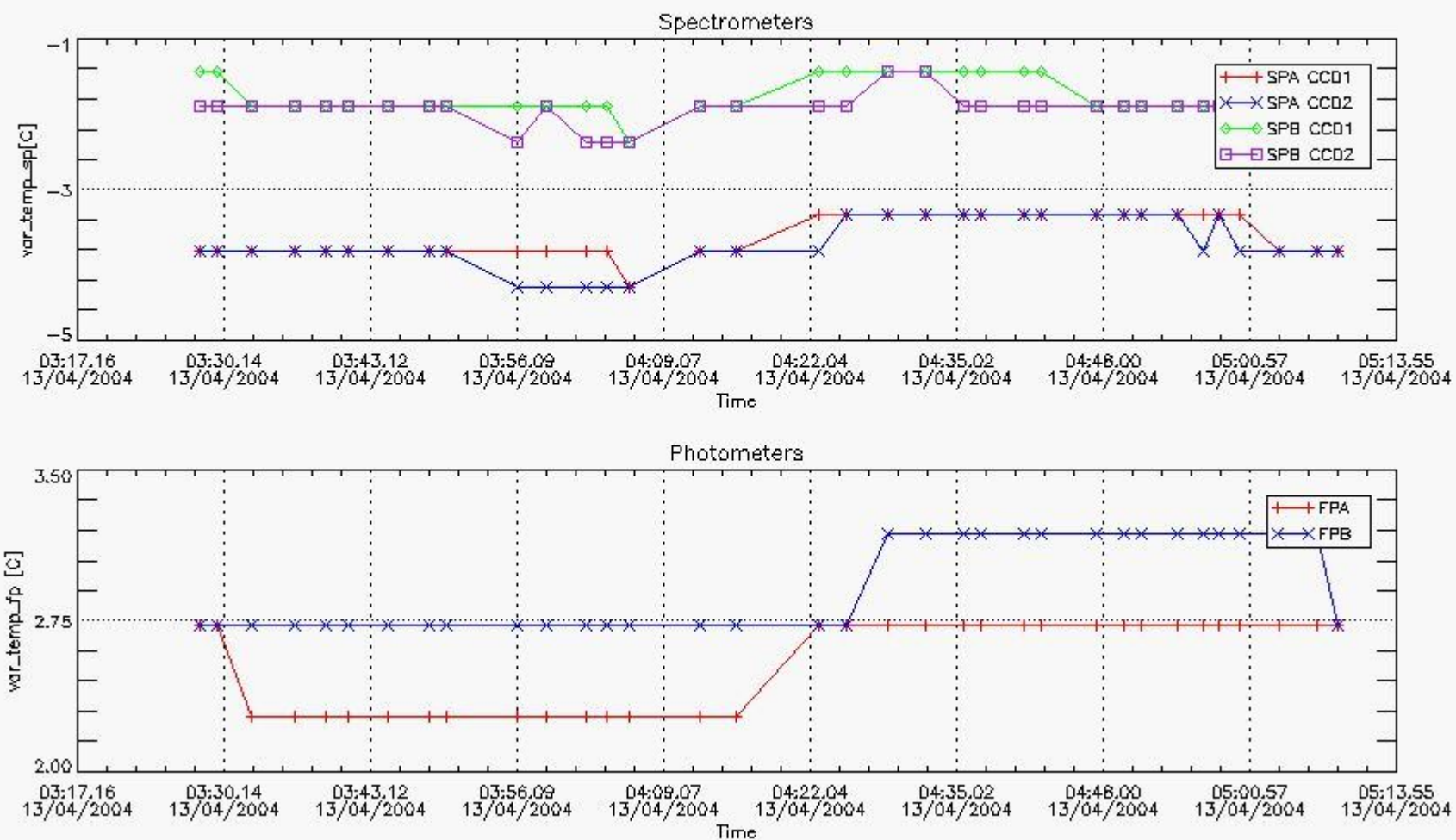
[2.2 Summary of processed GOM\\_TRA\\_1P products.](#)

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_1PNPDE20040413_032806_000000472026_00004_11080_0000.N1	13-APR-2004 03:28:06	Dark	47.000	100	4Gam Crv	2.5800	13100.	94	11080	No
GOM_TRA_1PNPDE20040413_032934_000000482026_00004_11080_0001.N1	13-APR-2004 03:29:34	Bright	48.000	15	67Alp Vir	0.97600	28000.	96	11080	No
GOM_TRA_1PNPDE20040413_033238_000000412026_00004_11080_0002.N1	13-APR-2004 03:32:38	Bright	40.500	121	29Gam Vir	2.7400	7200.0	81	11080	No
GOM_TRA_1PNPDE20040413_033630_000000422026_00004_11080_0003.N1	13-APR-2004 03:36:30	Bright	41.500	138	47Eps Vir	2.8280	4700.0	83	11080	No
GOM_TRA_1PNPDE20040413_033914_000000382026_00004_11080_0004.N1	13-APR-2004 03:39:14	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	11080	No
GOM_TRA_1PNPDE20040413_034117_000000612026_00004_11080_0005.N1	13-APR-2004 03:41:17	Bright	60.500	3	16Alp Boo	-0.050000	4250.0	121	11080	No
GOM_TRA_1PNPDE20040413_034442_000000392026_00004_11080_0006.N1	13-APR-2004 03:44:42	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	11080	No
GOM_TRA_1PNPDE20040413_034825_000000362026_00004_11080_0007.N1	13-APR-2004 03:48:25	Bright	36.000	87	64Gam UMa	2.4330	11000.	72	11080	No
GOM_TRA_1PNPDE20040413_034958_000000412026_00004_11080_0008.N1	13-APR-2004 03:49:58	Bright	41.000	55	79Zet UMa	2.0600	10200.	82	11080	No
GOM_TRA_1PNPDE20040413_035605_000000412026_00004_11080_0009.N1	13-APR-2004 03:56:05	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	11080	No
GOM_TRA_1PNPDE20040413_035845_000000382026_00004_11080_0010.N1	13-APR-2004 03:58:45	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	11080	No
GOM_TRA_1PNPDE20040413_040218_000000622026_00004_11080_0011.N1	13-APR-2004 04:02:18	Bright	61.500	130	23Bet Dra	2.7990	5800.0	123	11080	No
GOM_TRA_1PNPDE20040413_040403_000000672026_00004_11080_0012.N1	13-APR-2004 04:04:03	Bright	66.500	69	33Gam Dra	2.2310	3800.0	133	11080	No
GOM_TRA_1PNPDE20040413_040607_000000402026_00004_11080_0013.N1	13-APR-2004 04:06:07	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	11080	No
GOM_TRA_1PNPDE20040413_041216_000001062026_00004_11080_0014.N1	13-APR-2004 04:12:16	Bright	105.50	5	3Alp Lyr	0.033000	11000.	211	11080	No
GOM_TRA_1PNPDE20040413_041534_000000572026_00004_11080_0015.N1	13-APR-2004 04:15:34	Bright	56.500	92	53Eps Cyg	2.5000	4500.0	113	11080	No
GOM_TRA_1PNPDE20040413_042249_000000492026_00004_11080_0016.N1	13-APR-2004 04:22:49	Dark	49.000	61	8Eps Peg	2.1000	3900.0	98	11080	No
GOM_TRA_1PNPDE20040413_042518_000000462026_00004_11080_0017.N1	13-APR-2004 04:25:18	Dark	45.500	162	34Alp Aqr	2.9440	5350.0	91	11080	No
GOM_TRA_1PNPDE20040413_042852_000000972026_00004_11080_0018.N1	13-APR-2004 04:28:52	Dark	97.000	11	53Alp Aql	0.76500	8000.0	194	11080	No
GOM_TRA_1PNPDE20040413_043219_000000452026_00004_11080_0019.N1	13-APR-2004 04:32:19	Dark	45.000	18	24Alp PsA	1.1660	9700.0	90	11080	No
GOM_TRA_1PNPDE20040413_043535_000000422026_00004_11080_0020.N1	13-APR-2004 04:35:35	Dark	42.000	172	Gam Gru	3.0030	13100.	84	11080	No
GOM_TRA_1PNPDE20040413_043710_000000512026_00004_11080_0021.N1	13-APR-2004 04:37:10	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	11080	No
GOM_TRA_1PNPDE20040413_044100_000000492026_00004_11080_0022.N1	13-APR-2004 04:41:00	Dark	48.500	148	Alp Tuc	2.8780	4100.0	97	11080	No
GOM_TRA_1PNPDE20040413_044234_000000412026_00005_11081_0023.N1	13-APR-2004 04:42:34	Dark	40.500	45	Alp Pav	1.9400	26000.	81	11081	No
GOM_TRA_1PNPDE20040413_044721_000000642026_00005_11081_0025.N1	13-APR-2004 04:47:21	Dark	63.500	38	20Eps Sgr	1.8360	11000.	127	11081	No
GOM_TRA_1PNPDE20040413_044945_000000452026_00005_11081_0026.N1	13-APR-2004 04:49:45	Dark	45.000	141	Bet Ara	2.8400	4600.0	90	11081	No
GOM_TRA_1PNPDE20040413_045122_000000632026_00005_11081_0027.N1	13-APR-2004 04:51:22	Dark	62.500	25	35Lam Sco	1.6200	28000.	125	11081	No
GOM_TRA_1PNPDE20040413_045430_000000512026_00005_11081_0028.N1	13-APR-2004 04:54:30	Dark	50.500	4	Alp1Cen	-0.010000	5800.0	101	11081	No
GOM_TRA_1PNPDE20040413_045646_000000422026_00005_11081_0029.N1	13-APR-2004 04:56:46	Dark	42.000	20	Bet Cru	1.2530	30000.	84	11081	No
GOM_TRA_1PNPDE20040413_045815_000000462026_00005_11081_0030.N1	13-APR-2004 04:58:15	Dark	45.500	109	Bet Lup	2.6770	26000.	91	11081	No
GOM_TRA_1PNPDE20040413_050000_000001122026_00005_11081_0031.N1	13-APR-2004 05:00:00	Dark	112.00	16	21Alp Sco	1.0200	3000.0	224	11081	No
GOM_TRA_1PNPDE20040413_050331_000000912026_00005_11081_0032.N1	13-APR-2004 05:03:31	Dark	90.500	80	7Del Sco	2.3160	30000.	181	11081	No
GOM_TRA_1PNPDE20040413_050652_000000442026_00005_11081_0033.N1	13-APR-2004 05:06:52	Dark	43.500	106	9Bet Crv	2.6480	5600.0	87	11081	No
GOM_TRA_1PNPDE20040413_050843_000000282026_00005_11081_0034.N1	13-APR-2004 05:08:43	Dark	27.500	100	4Gam Crv	2.5800	13100.	55	11081	No

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





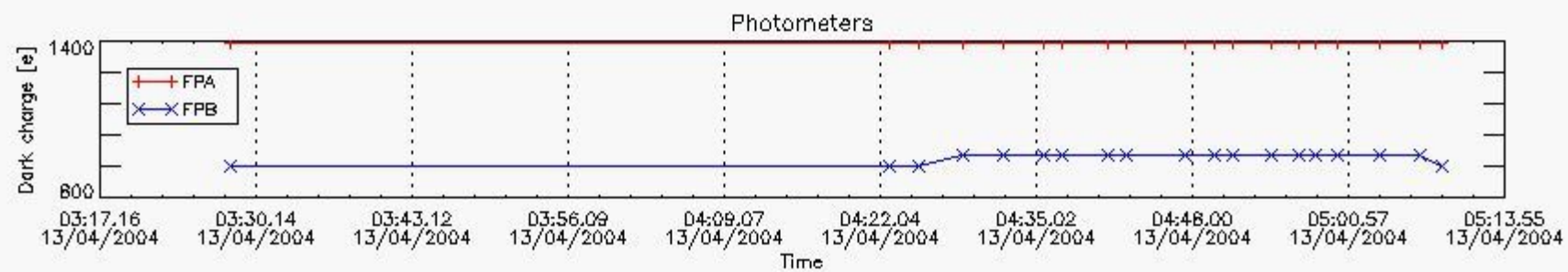
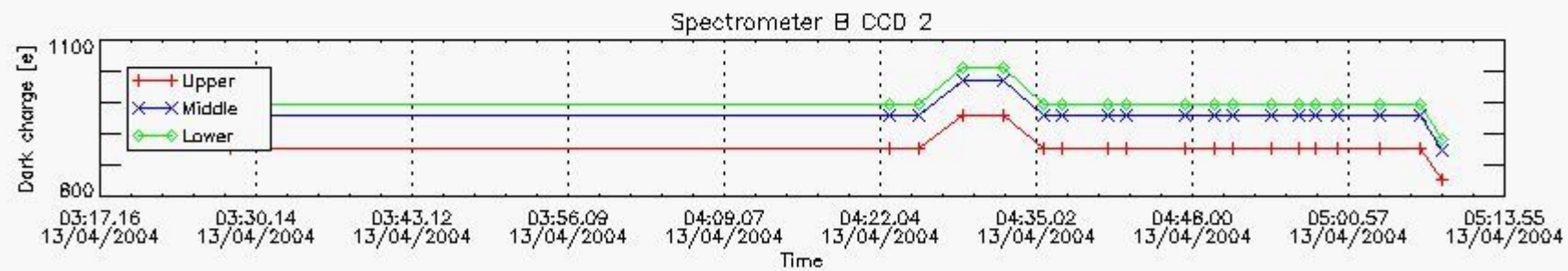
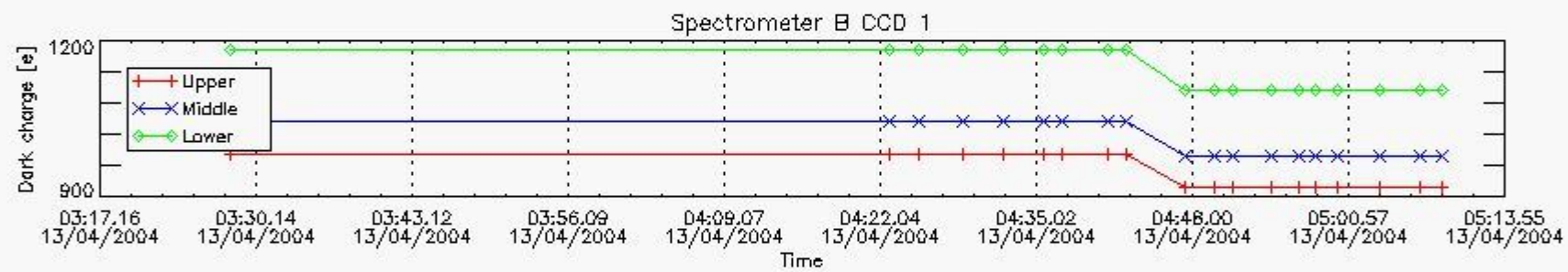
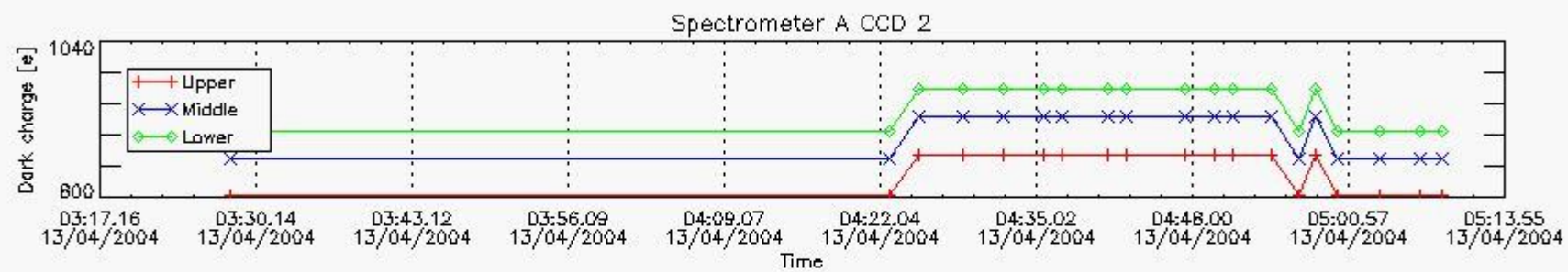
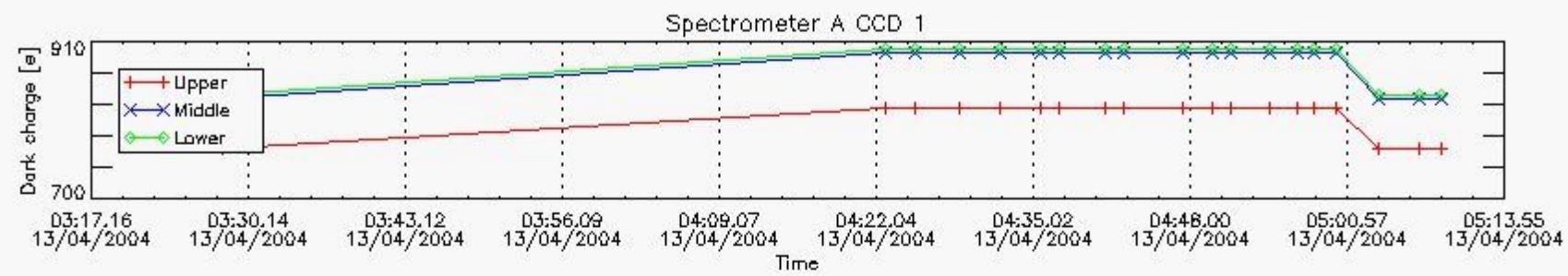
#### 4. Overview of dark signal processing per product

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

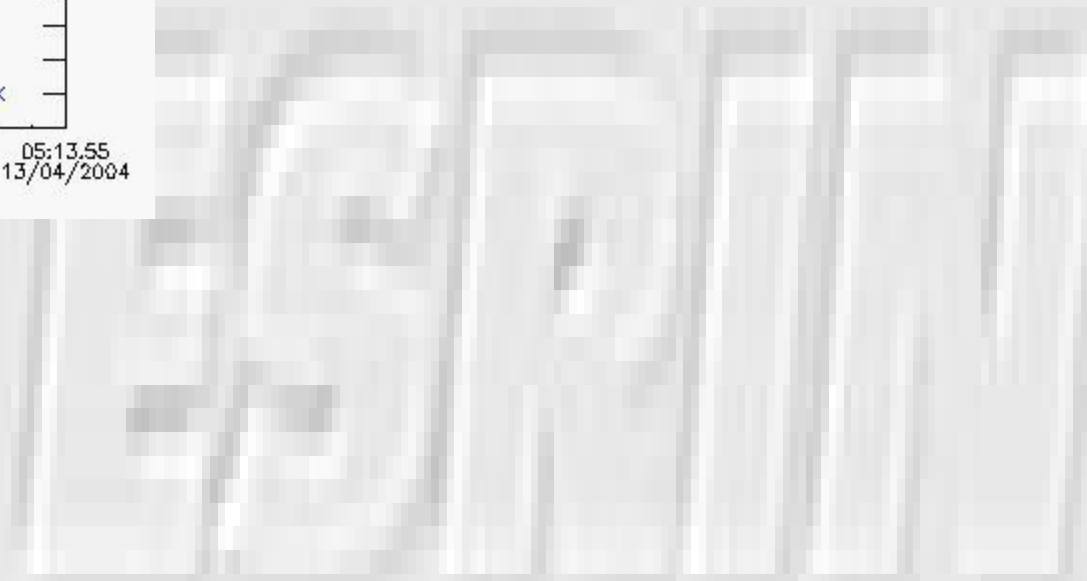
##### 4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



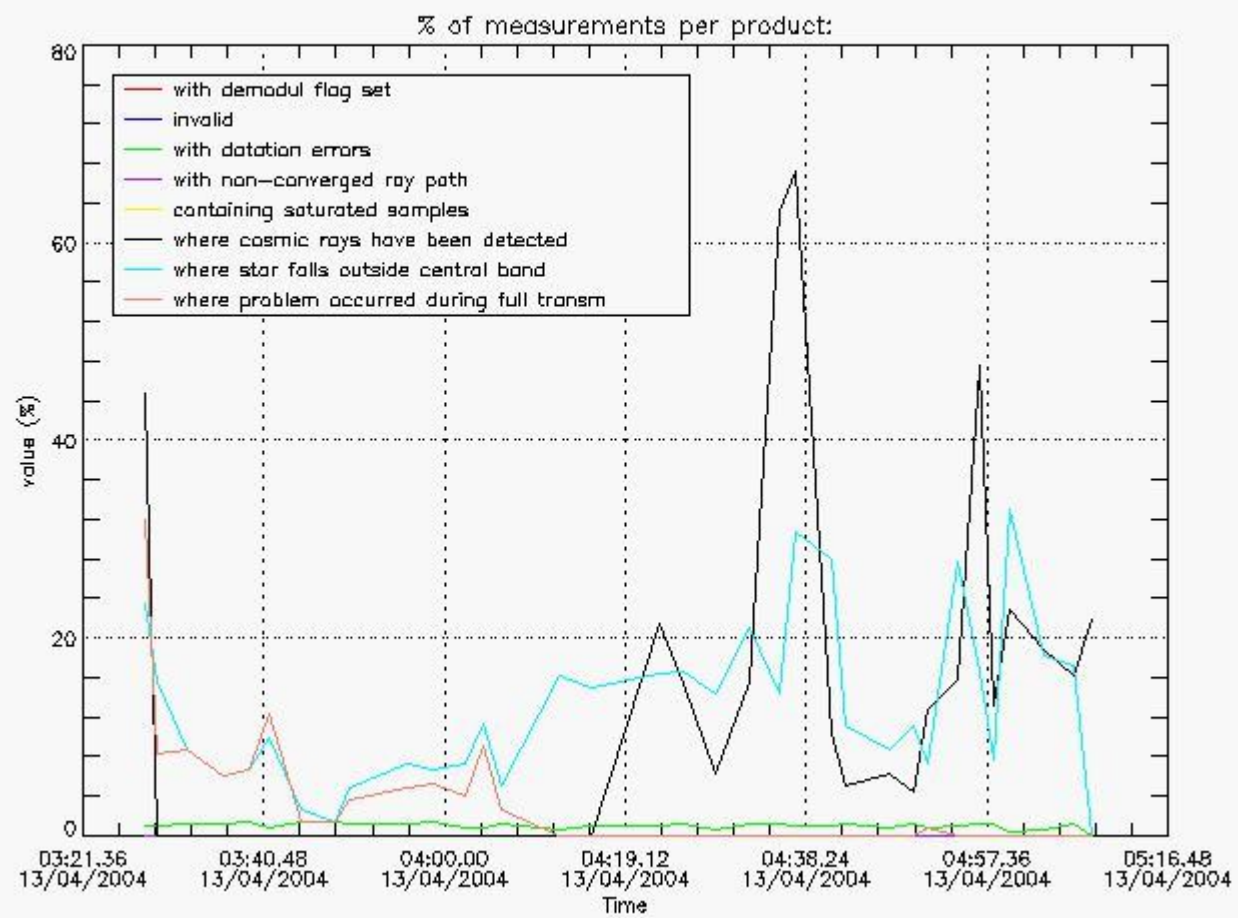
## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	8.82353 %
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



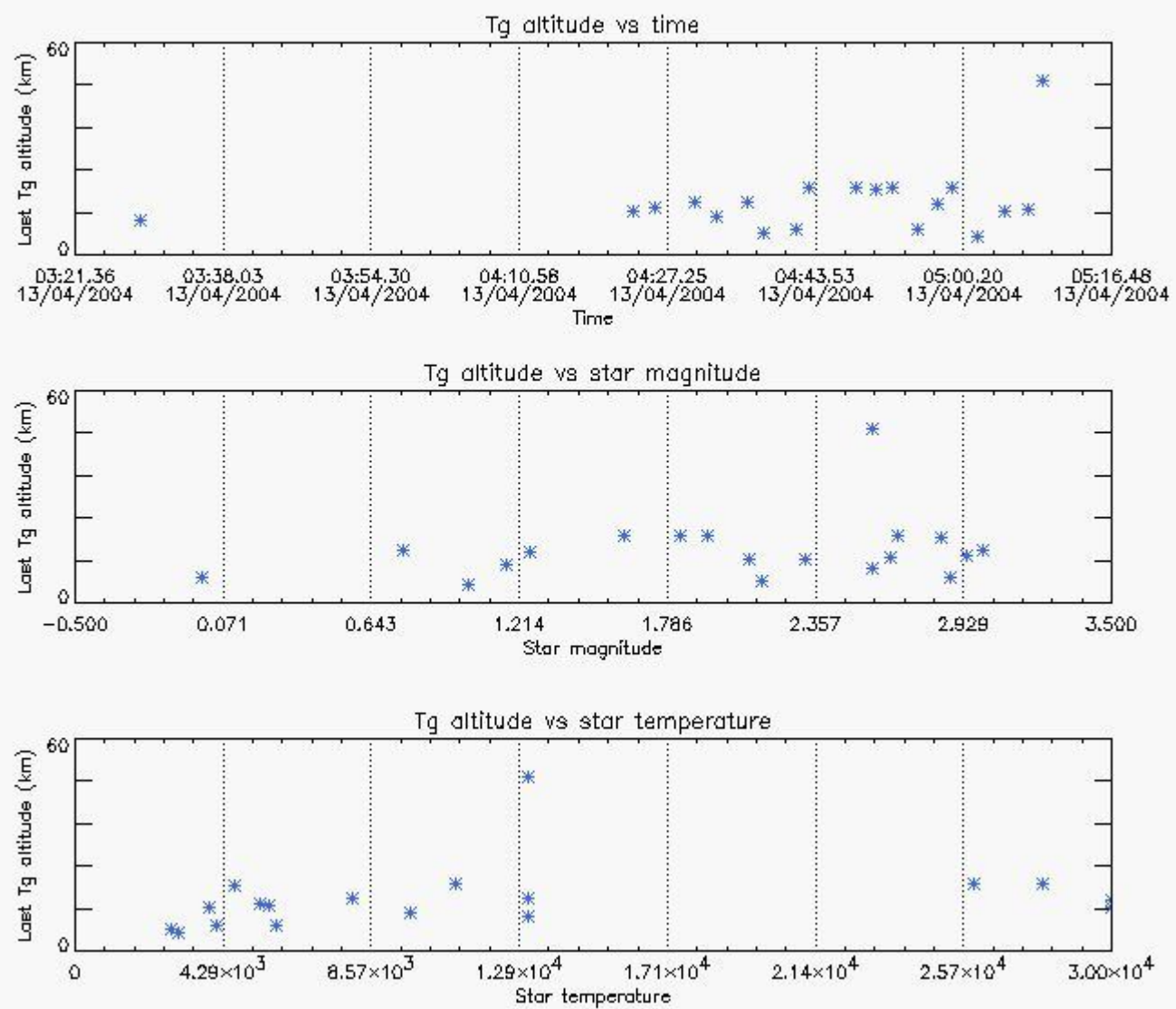
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	15.013	19.179
St. deviation:	9.4616	3.6144
Maximum:	49.102	24.478
Minimum:	4.9255	13.316
Number of data:	19.000	15.000

### 6.2 Plot for DARK limb products

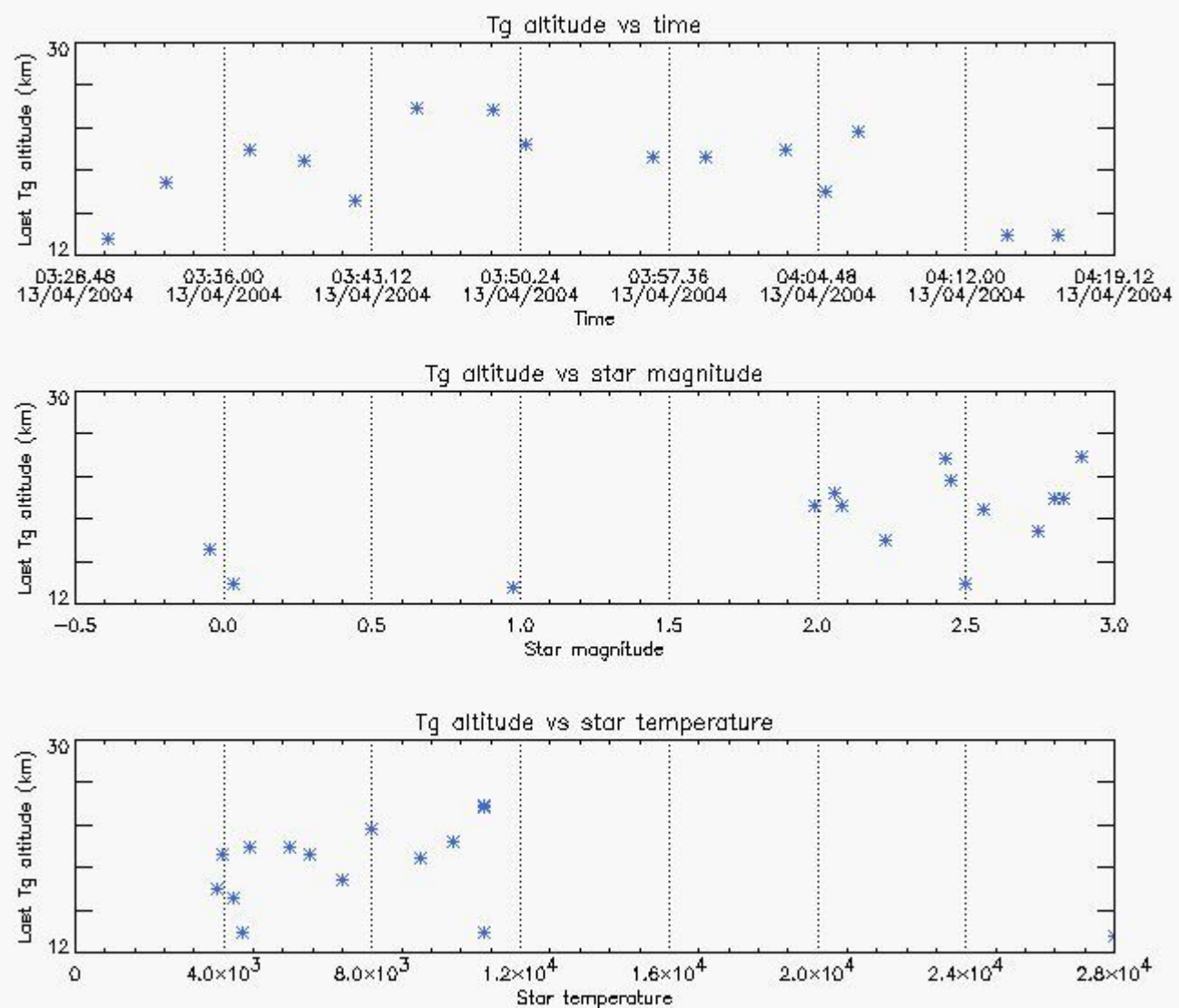
Tangent altitude at which the star is lost



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

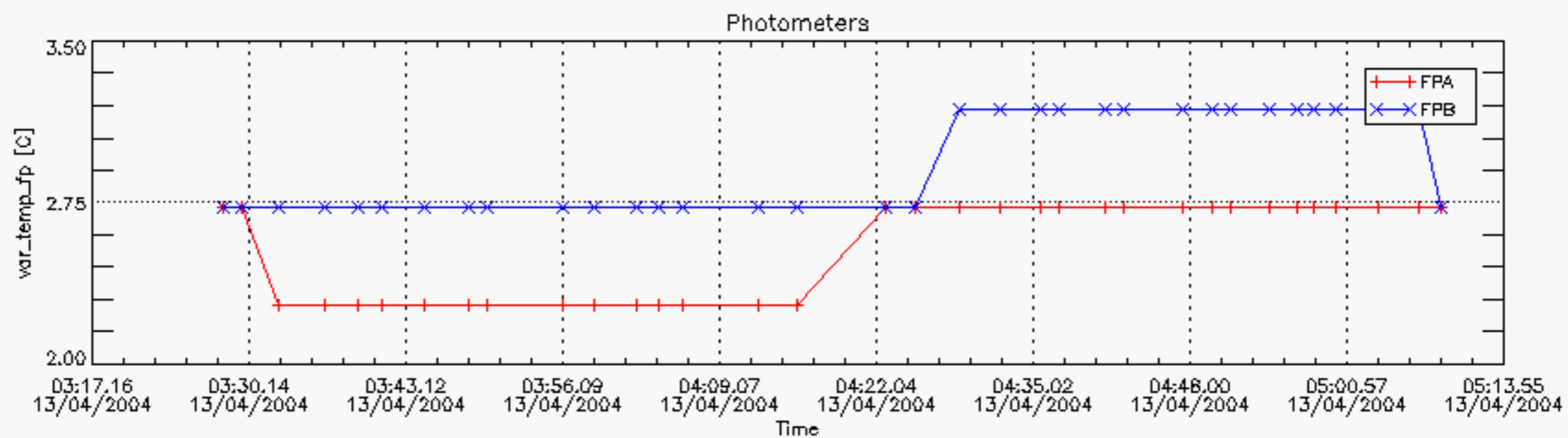
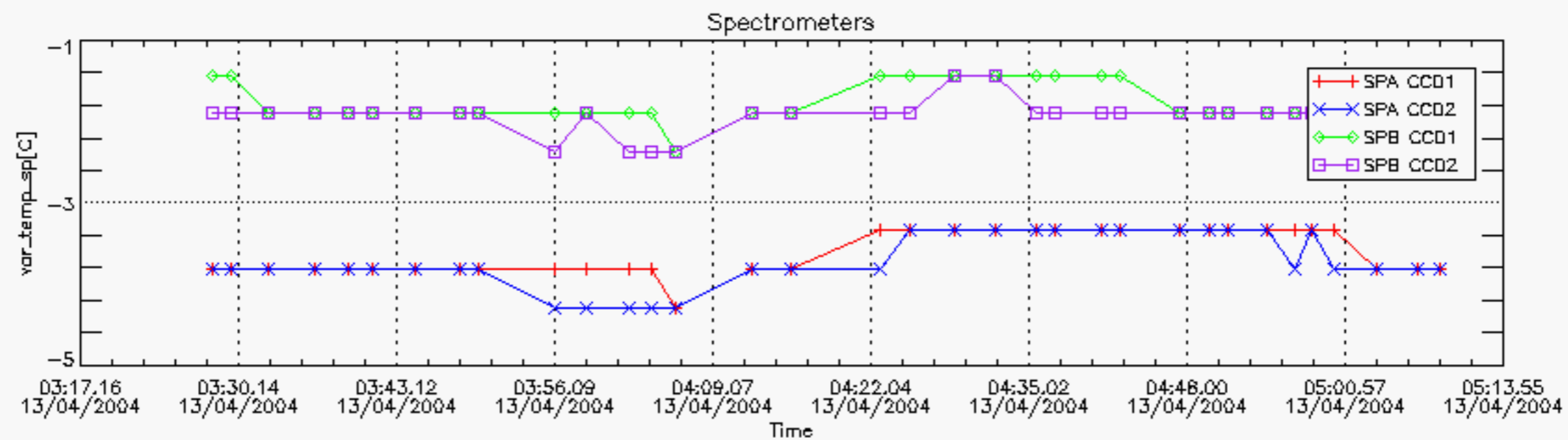
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

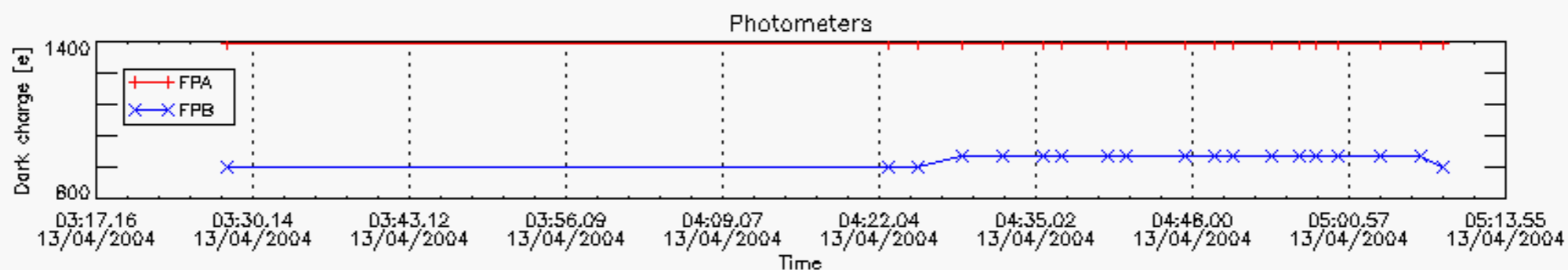
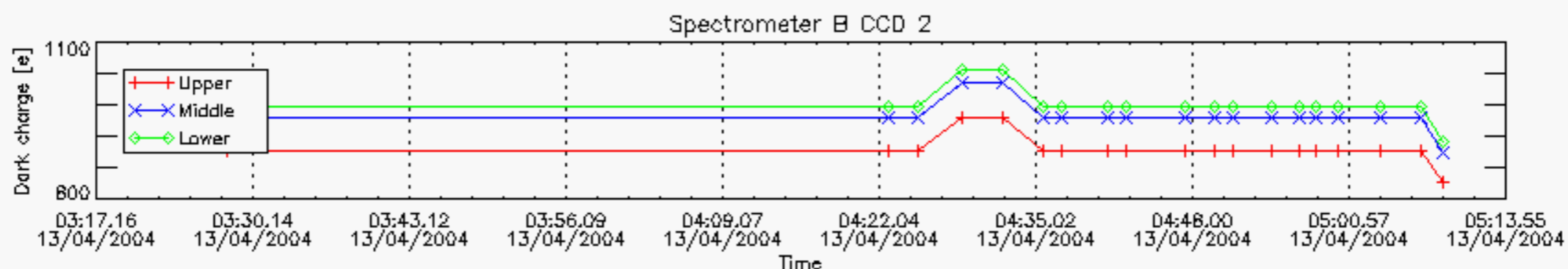
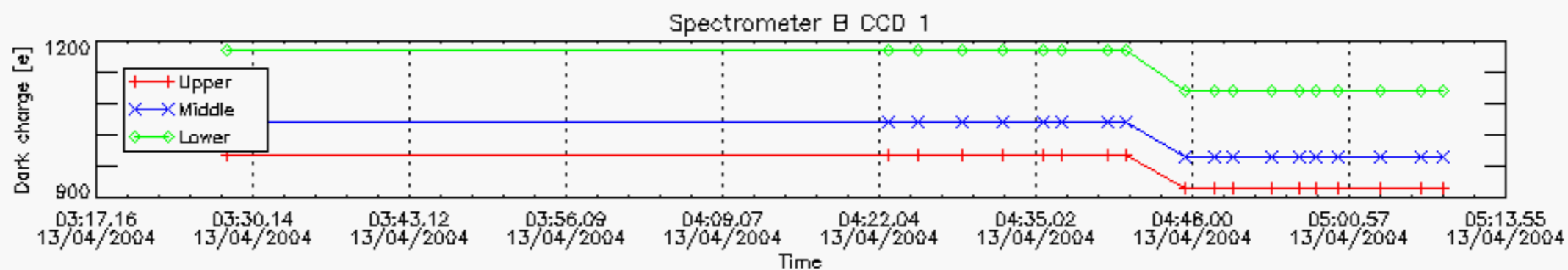
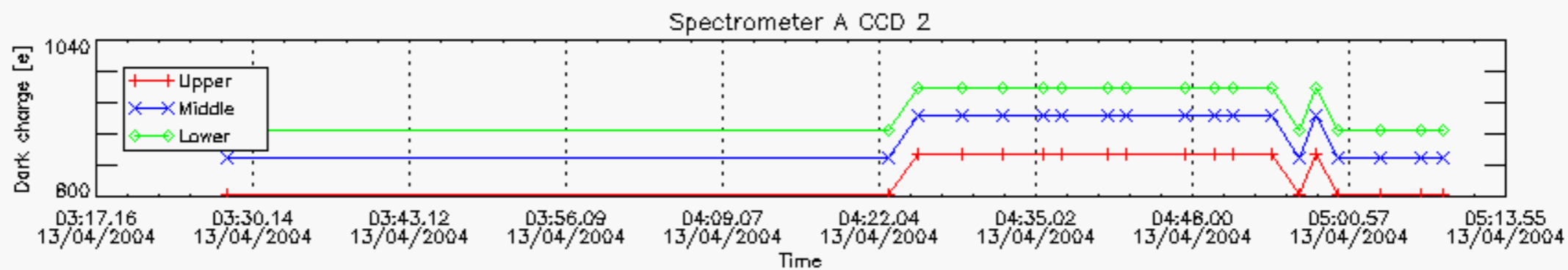
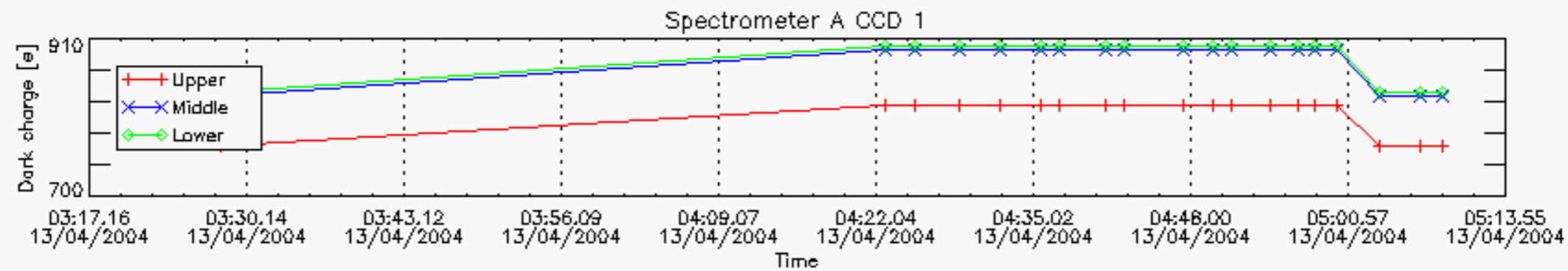
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1447.4	1462.0	1448.0
St. deviation:	5.0800	7.6849	6.8793	8.7514
Maximum:	1503.0	1497.0	1518.0	1501.0
Minimum:	1435.0	1410.0	1448.0	1406.0
Number of data:	24750.	24750.	18600.	18600.

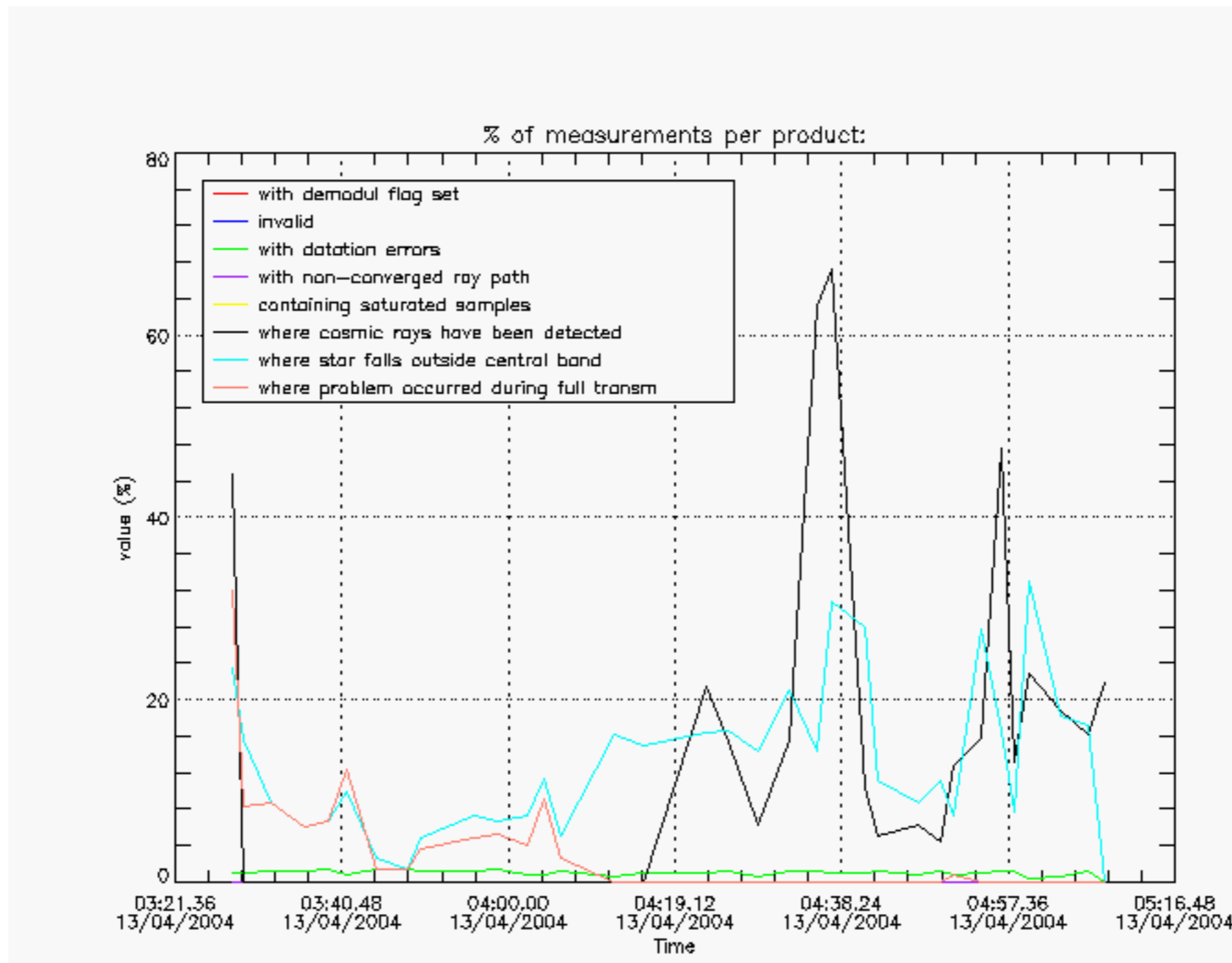




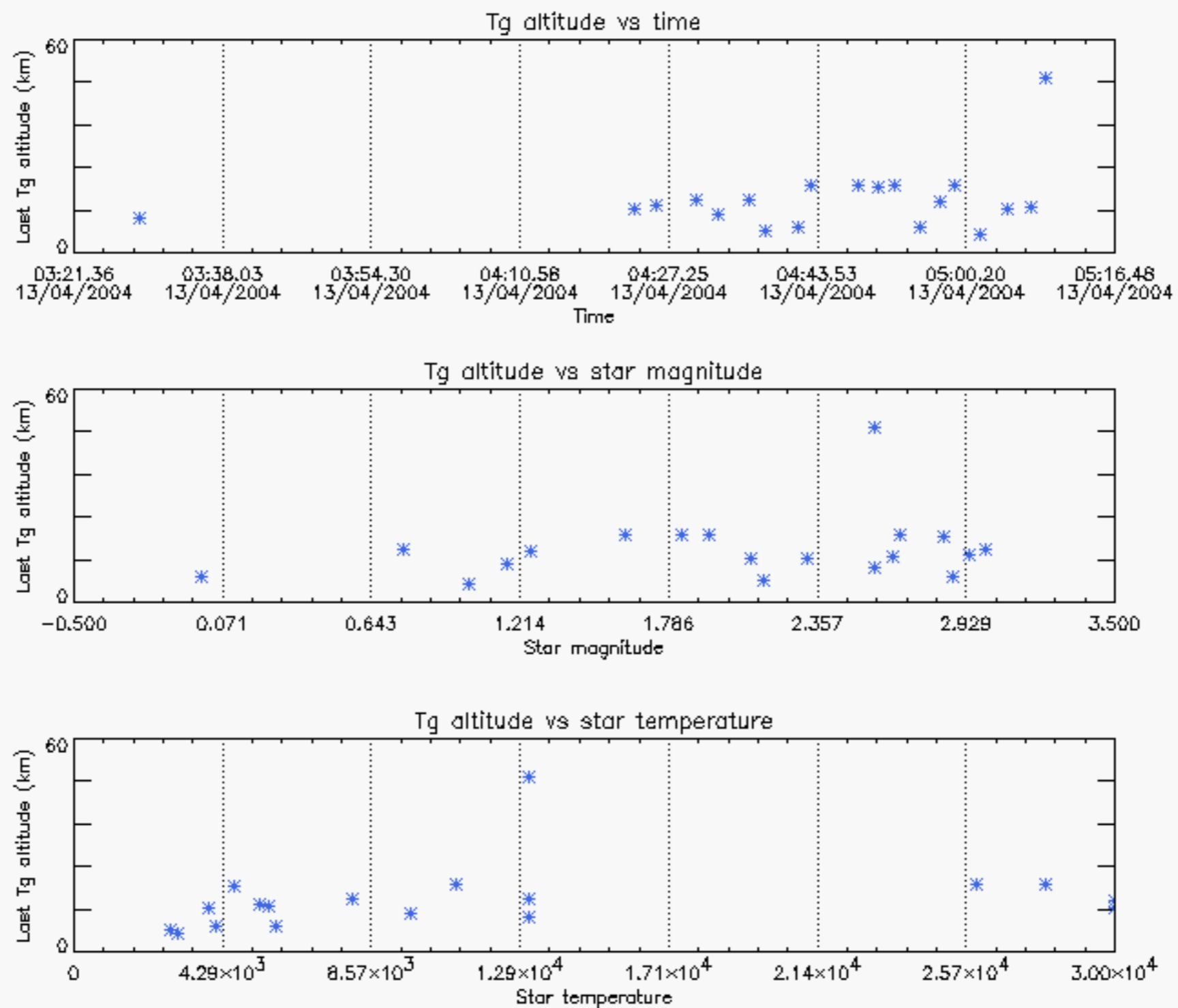




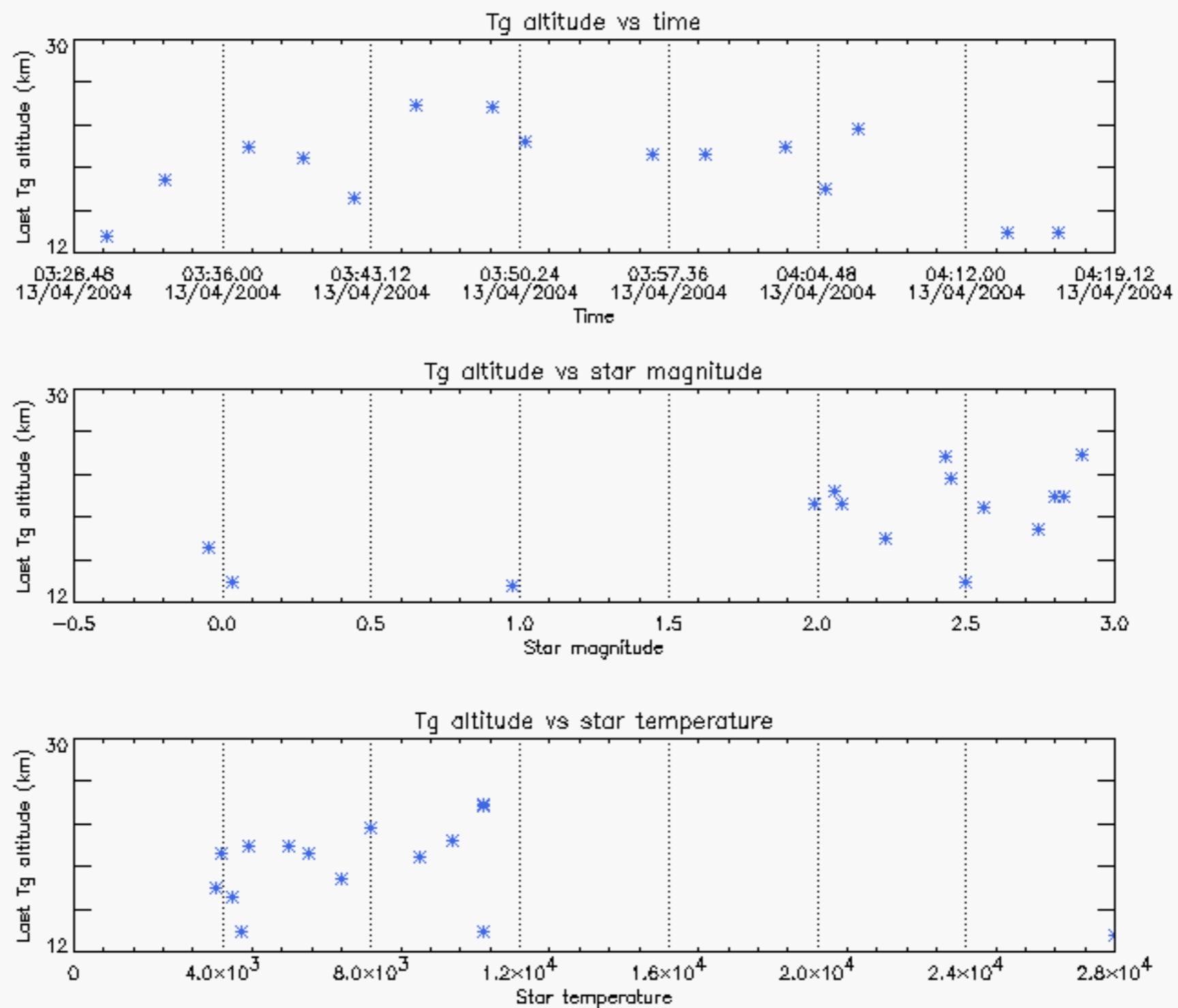




Tangent altitude at which the star is lost



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
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 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
18;-1602.9; 01-APR-2004 02:11:44; Bright; 43.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 87; 0;10907
19;-1211.6; 01-APR-2004 02:18:15; Dark ; 49.5; 61; 8Eps Peg ; 2.10; 3900;occ; 99; 0;10907
20; -992.6; 01-APR-2004 02:21:54; Dark ; 72.0; 11; 53Alp Aql ; 0.76; 8000;occ; 144; 0;10907
21; -779.1; 01-APR-2004 02:25:28; Dark ; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;10907
22; -443.0; 01-APR-2004 02:31:04; Dark ; 38.5; 172; Gam Gru ; 3.00; 13100;occ; 77; 0;10907
23; -308.6; 01-APR-2004 02:33:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10907
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25; 69.2; 01-APR-2004 02:39:36; Dark ; 63.5; 116; 19Del Sgr ; 2.70; 4100;occ; 127; 0;10908
26; 300.8; 01-APR-2004 02:43:28; Dark ; 58.0; 40; The Sco ; 1.86; 7100;occ; 116; 0;10908
27; 404.0; 01-APR-2004 02:45:11; Dark ; 47.0; 43; Alp TrA ; 1.91; 4250;occ; 94; 0;10908
28; 518.1; 01-APR-2004 02:47:05; Dark ; 41.5; 134; Bet TrA ; 2.81; 6600;occ; 83; 0;10908
29; 675.2; 01-APR-2004 02:49:42; Dark ; 54.5; 4; Alp1Cen ;-0.01; 5800;occ; 109; 0;10908
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31; 1101.7; 01-APR-2004 02:56:49; Dark ; 53.5; 54; 5The Cen ; 2.06; 4500;occ; 107; 0;10908
32; 1430.1; 01-APR-2004 03:02:17; Dark ; 52.0; 169; 46Gam Hya ; 2.99; 4700;occ; 104; 0;10908
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 3;-3877.5; 01-APR-2004 11:37:25; Bright; 39.0; 62; 94Bet Leo ; 2.14; 9700;occ; 78; 0;10913
 4;-3780.2; 01-APR-2004 11:39:02; Bright; 38.0; 96; 68Del Leo ; 2.56; 9300;occ; 76; 0;10913
 5;-3675.9; 01-APR-2004 11:40:47; Bright; 38.5; 166; 17Eps Leo ; 2.98; 6000;occ; 77; 0;10913
 6;-3567.0; 01-APR-2004 11:42:35; Bright; 67.5; 111; 8Eta Boo ; 2.68; 6000;occ; 135; 0;10913
 7;-3371.8; 01-APR-2004 11:45:51; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;10913
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