

# GOMOS Daily Report 27-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	28APR2004 04:02:10
Data source version	GOMOS/4.02
Start time of products	27-APR-2004 (27APR2004 00:00:00)
Stop time of products	28-APR-2004 (28APR2004 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

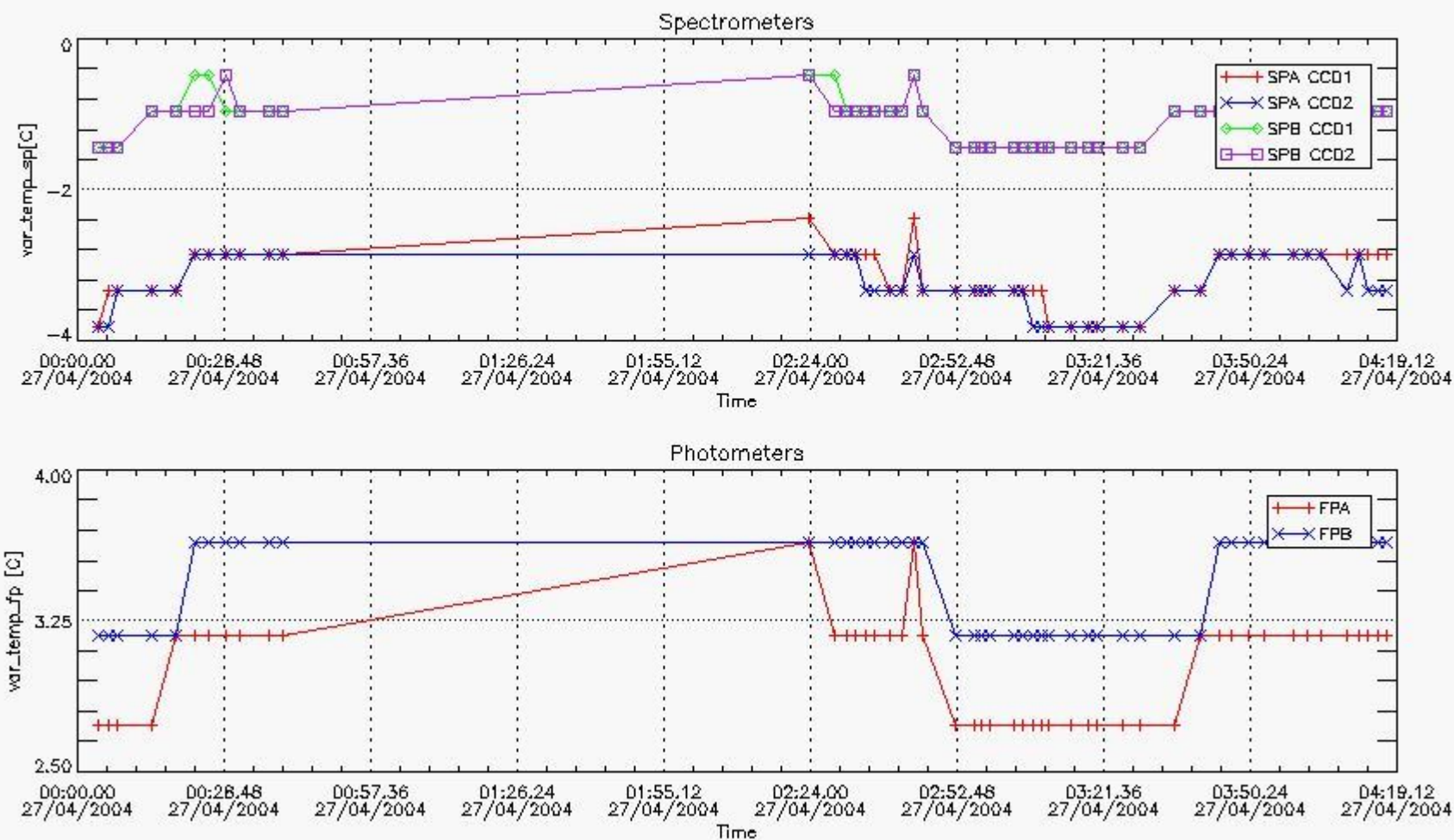
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040427_000358_000000452026_00202_11278_0018.N1	27-APR-2004 00:03:58	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	11278	No
GOM_TRA_1PNPDE20040427_000558_000000522026_00202_11278_0019.N1	27-APR-2004 00:05:58	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	11278	No
GOM_TRA_1PNPDE20040427_000742_000001492026_00202_11278_0020.N1	27-APR-2004 00:07:42	Bright	148.50	5	3Alp Lyr	0.033000	11000.	297	11278	No
GOM_TRA_1PNPDE20040427_001427_000000732026_00202_11278_0021.N1	27-APR-2004 00:14:27	Dark	73.000	92	53Eps Cyg	2.5000	4500.0	146	11278	No
GOM_TRA_1PNPDE20040427_001915_000000472026_00202_11278_0022.N1	27-APR-2004 00:19:15	Dark	46.500	90	54Alp Peg	2.4870	11000.	93	11278	No
GOM_TRA_1PNPDE20040427_002309_000000692026_00202_11278_0023.N1	27-APR-2004 00:23:09	Dark	69.000	61	8Eps Peg	2.1000	3900.0	138	11278	No
GOM_TRA_1PNPDE20040427_002537_000000552026_00202_11278_0024.N1	27-APR-2004 00:25:37	Dark	54.500	162	34Alp Aqr	2.9440	5350.0	109	11278	No
GOM_TRA_1PNPDE20040427_002859_000000592026_00202_11278_0025.N1	27-APR-2004 00:28:59	Dark	59.000	154	22Bet Aqr	2.8990	5700.0	118	11278	No
GOM_TRA_1PNPDE20040427_003155_000000492026_00202_11278_0026.N1	27-APR-2004 00:31:55	Dark	48.500	18	24Alp PsA	1.1660	9700.0	97	11278	No
GOM_TRA_1PNPDE20040427_003737_000000452026_00202_11278_0027.N1	27-APR-2004 00:37:37	Dark	45.000	31	Alp Gru	1.7340	15200.	90	11278	No
GOM_TRA_1PNPDE20040427_004024_000000442026_00202_11278_0028.N1	27-APR-2004 00:40:24	Dark	43.500	148	Alp Tuc	2.8780	4100.0	87	11278	No
GOM_TRA_1PNPDE20040427_022337_000000442026_00204_11280_0000.N1	27-APR-2004 02:23:37	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11280	No
GOM_TRA_1PNPDE20040427_022836_000000742026_00204_11280_0001.N1	27-APR-2004 02:28:36	Dark	73.500	103	38Zet Sgr	2.6000	9700.0	147	11280	No
GOM_TRA_1PNPDE20040427_023112_000000462026_00204_11280_0002.N1	27-APR-2004 02:31:12	Dark	45.500	141	Bet Ara	2.8400	4600.0	91	11280	No
GOM_TRA_1PNPDE20040427_023249_000000562026_00204_11280_0003.N1	27-APR-2004 02:32:49	Dark	56.000	40	The Sco	1.8590	7100.0	112	11280	No
GOM_TRA_1PNPDE20040427_023447_000000532026_00204_11280_0004.N1	27-APR-2004 02:34:47	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	11280	No
GOM_TRA_1PNPDE20040427_023629_000000412026_00204_11280_0005.N1	27-APR-2004 02:36:29	Dark	41.000	20	Bet Cru	1.2530	30000.	82	11280	No
GOM_TRA_1PNPDE20040427_023928_000000412026_00204_11280_0006.N1	27-APR-2004 02:39:28	Dark	40.500	64	Gam Cen	2.2000	10600.	81	11280	No
GOM_TRA_1PNPDE20040427_024147_000000772026_00204_11280_0007.N1	27-APR-2004 02:41:47	Dark	76.500	16	21Alp Sco	1.0200	3000.0	153	11280	No
GOM_TRA_1PNPDE20040427_024413_000000662026_00204_11280_0000.N1	27-APR-2004 02:44:13	Dark	65.500	80	7Del Sco	2.3160	30000.	131	11280	No
GOM_TRA_1PNPDE20040427_024610_000000452026_00204_11280_0001.N1	27-APR-2004 02:46:10	Dark	45.000	169	46Gam Hya	2.9910	4700.0	90	11280	No
GOM_TRA_1PNPDE20040427_025237_000000392026_00204_11280_0002.N1	27-APR-2004 02:52:37	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	11280	No
GOM_TRA_1PNPDE20040427_025601_000000392026_00204_11280_0003.N1	27-APR-2004 02:56:01	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	11280	No
GOM_TRA_1PNPDE20040427_025738_000000382026_00204_11280_0004.N1	27-APR-2004 02:57:38	Bright	37.500	62	94Bet Leo	2.1360	9700.0	75	11280	No
GOM_TRA_1PNPDE20040427_025910_000000472026_00204_11280_0005.N1	27-APR-2004 02:59:10	Bright	46.500	3	16Alp Boo	-0.050000	4250.0	93	11280	No
GOM_TRA_1PNPDE20040427_030351_000000382026_00204_11280_0006.N1	27-APR-2004 03:03:51	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11280	No
GOM_TRA_1PNPDE20040427_030531_000000432026_00204_11280_0007.N1	27-APR-2004 03:05:31	Bright	43.000	180	27Gam Boo	3.0400	8000.0	86	11280	No
GOM_TRA_1PNPDE20040427_030732_000000392026_00204_11280_0008.N1	27-APR-2004 03:07:32	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	11280	No
GOM_TRA_1PNPDE20040427_030929_000000422026_00204_11280_0009.N1	27-APR-2004 03:09:29	Bright	42.000	82	48Bet UMa	2.3650	10600.	84	11280	No
GOM_TRA_1PNPDE20040427_031053_000000392026_00204_11280_0010.N1	27-APR-2004 03:10:53	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	11280	No
GOM_TRA_1PNPDE20040427_031459_000000392026_00204_11280_0011.N1	27-APR-2004 03:14:59	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	11280	No
GOM_TRA_1PNPDE20040427_031832_000000392026_00204_11280_0012.N1	27-APR-2004 03:18:32	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	11280	No
GOM_TRA_1PNPDE20040427_032020_000000642026_00204_11280_0013.N1	27-APR-2004 03:20:20	Bright	64.000	69	33Gam Dra	2.2310	3800.0	128	11280	No
GOM_TRA_1PNPDE20040427_032511_000000442026_00204_11280_0014.N1	27-APR-2004 03:25:11	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	11280	No
GOM_TRA_1PNPDE20040427_032850_000001592026_00204_11280_0015.N1	27-APR-2004 03:28:50	Bright	159.00	5	3Alp Lyr	0.033000	11000.	318	11280	No
GOM_TRA_1PNPDE20040427_033539_000000772026_00204_11280_0016.N1	27-APR-2004 03:35:39	Dark	76.500	92	53Eps Cyg	2.5000	4500.0	153	11280	No
GOM_TRA_1PNPDE20040427_034027_000000462026_00204_11280_0017.N1	27-APR-2004 03:40:27	Dark	45.500	90	54Alp Peg	2.4870	11000.	91	11280	No
GOM_TRA_1PNPDE20040427_034420_000000672026_00204_11280_0018.N1	27-APR-2004 03:44:20	Dark	66.500	61	8Eps Peg	2.1000	3900.0	133	11280	No
GOM_TRA_1PNPDE20040427_034649_000000552026_00204_11280_0019.N1	27-APR-2004 03:46:49	Dark	55.000	162	34Alp Aqr	2.9440	5350.0	110	11280	No
GOM_TRA_1PNPDE20040427_035013_000000602026_00204_11280_0020.N1	27-APR-2004 03:50:13	Dark	59.500	154	22Bet Aqr	2.8990	5700.0	119	11280	No
GOM_TRA_1PNPDE20040427_035308_000000442026_00204_11280_0021.N1	27-APR-2004 03:53:08	Dark	43.500	18	24Alp PsA	1.1660	9700.0	87	11280	No
GOM_TRA_1PNPDE20040427_035851_000000522026_00204_11280_0022.N1	27-APR-2004 03:58:51	Dark	51.500	31	Alp Gru	1.7340	15200.	103	11280	No
GOM_TRA_1PNPDE20040427_040138_000000412026_00205_11281_0023.N1	27-APR-2004 04:01:38	Dark	40.500	148	Alp Tuc	2.8780	4100.0	81	11281	No
GOM_TRA_1PNPDE20040427_040414_000000412026_00205_11281_0024.N1	27-APR-2004 04:04:14	Dark	41.000	45	Alp Pav	1.9400	26000.	82	11281	No
GOM_TRA_1PNPDE20040427_040913_000000772026_00205_11281_0025.N1	27-APR-2004 04:09:13	Dark	76.500	103	38Zet Sgr	2.6000	9700.0	153	11281	No
GOM_TRA_1PNPDE20040427_041150_000000442026_00205_11281_0026.N1	27-APR-2004 04:11:50	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	11281	No
GOM_TRA_1PNPDE20040427_041327_000000592026_00205_11281_0027.N1	27-APR-2004 04:13:27	Dark	59.000	40	The Sco	1.8590	7100.0	118	11281	No
GOM_TRA_1PNPDE20040427_041524_000000452026_00205_11281_0028.N1	27-APR-2004 04:15:24	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	11281	No
GOM_TRA_1PNPDE20040427_041705_000000422026_00205_11281_0029.N1	27-APR-2004 04:17:05	Dark	42.000	20	Bet Cru	1.2530	30000.	84	11281	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).

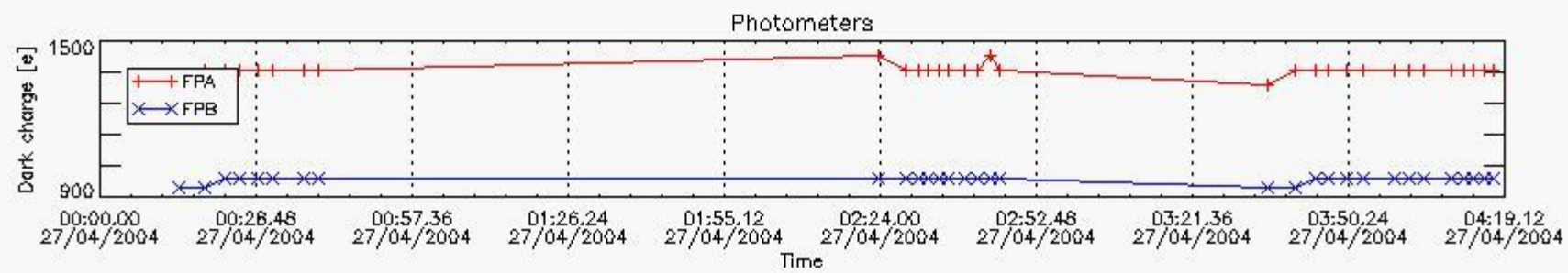
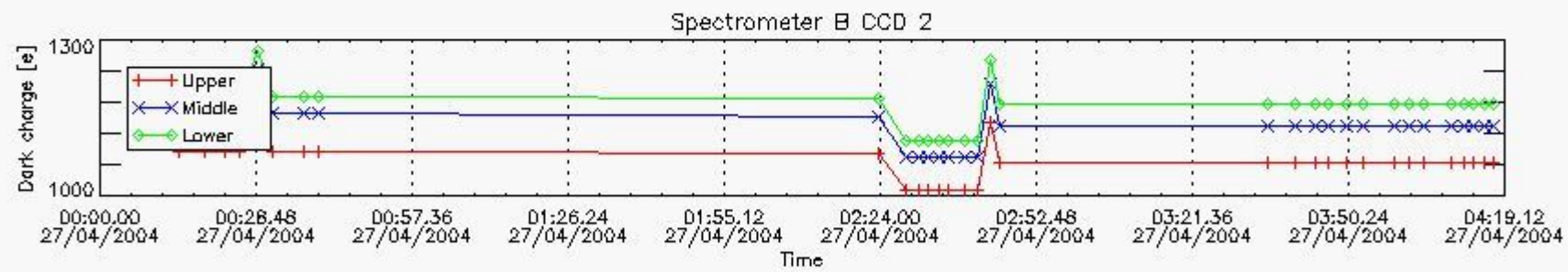
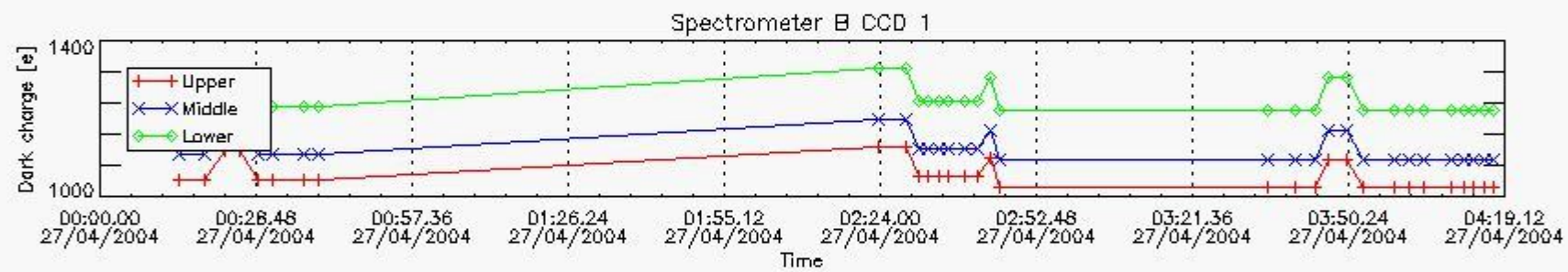
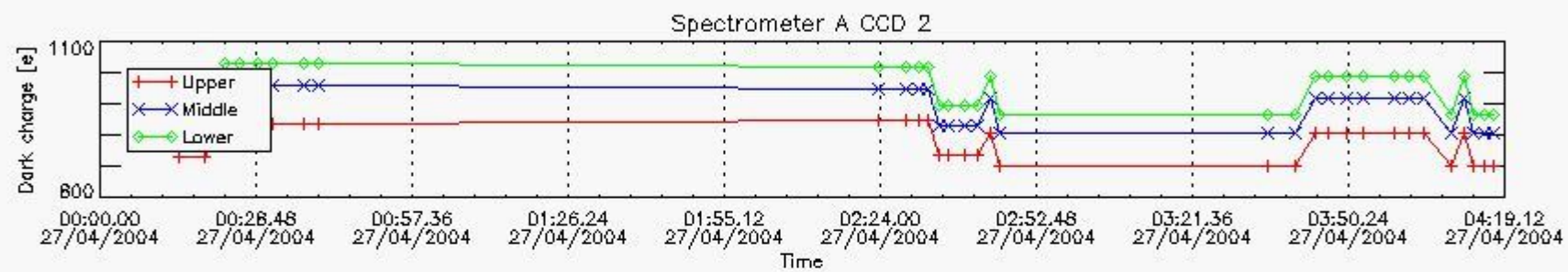
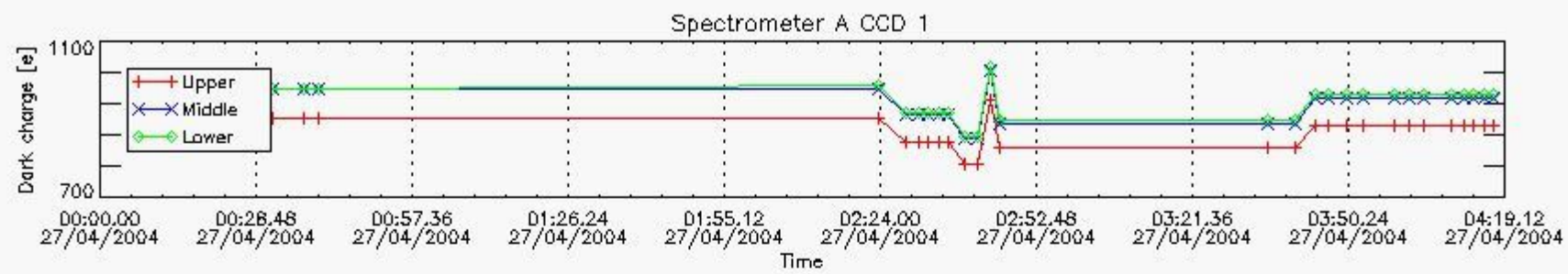
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20040427_022337_000000442026_00204_11280_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040427_022836_000000742026_00204_11280_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040427_023112_000000462026_00204_11280_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040427_023249_000000562026_00204_11280_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040427_023447_000000532026_00204_11280_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040427_023629_000000412026_00204_11280_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040427_023928_000000412026_00204_11280_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040427_024147_000000772026_00204_11280_0007.N1	DC map used (0)

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



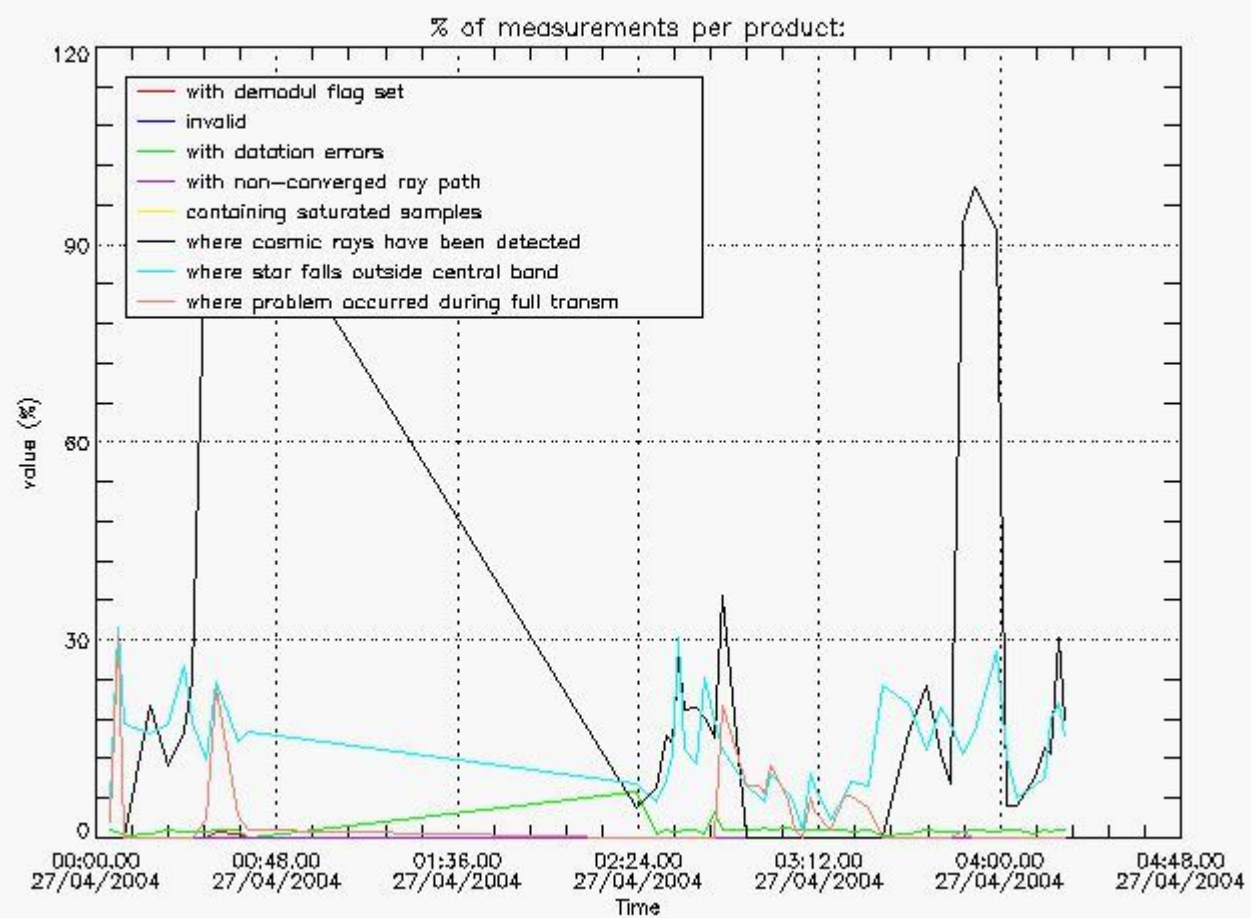


## 5. Demodulation flag and quality information monitoring

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

At least one measurement with demodulation flag set:	16.3265 %
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



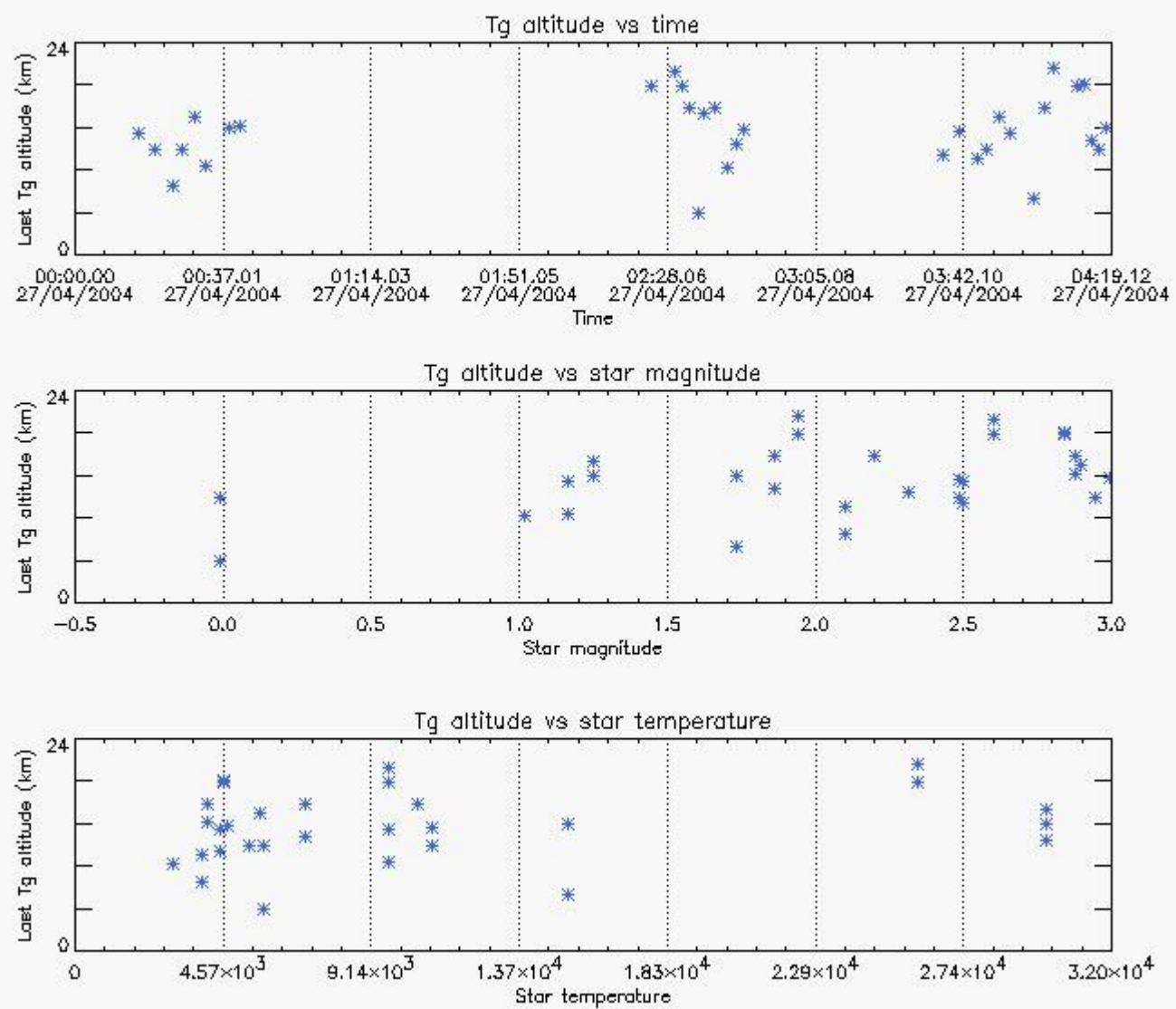
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.009	18.865
St. deviation:	3.9493	4.6480
Maximum:	21.029	23.925
Minimum:	4.7111	5.4612
Number of data:	32.000	17.000

### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

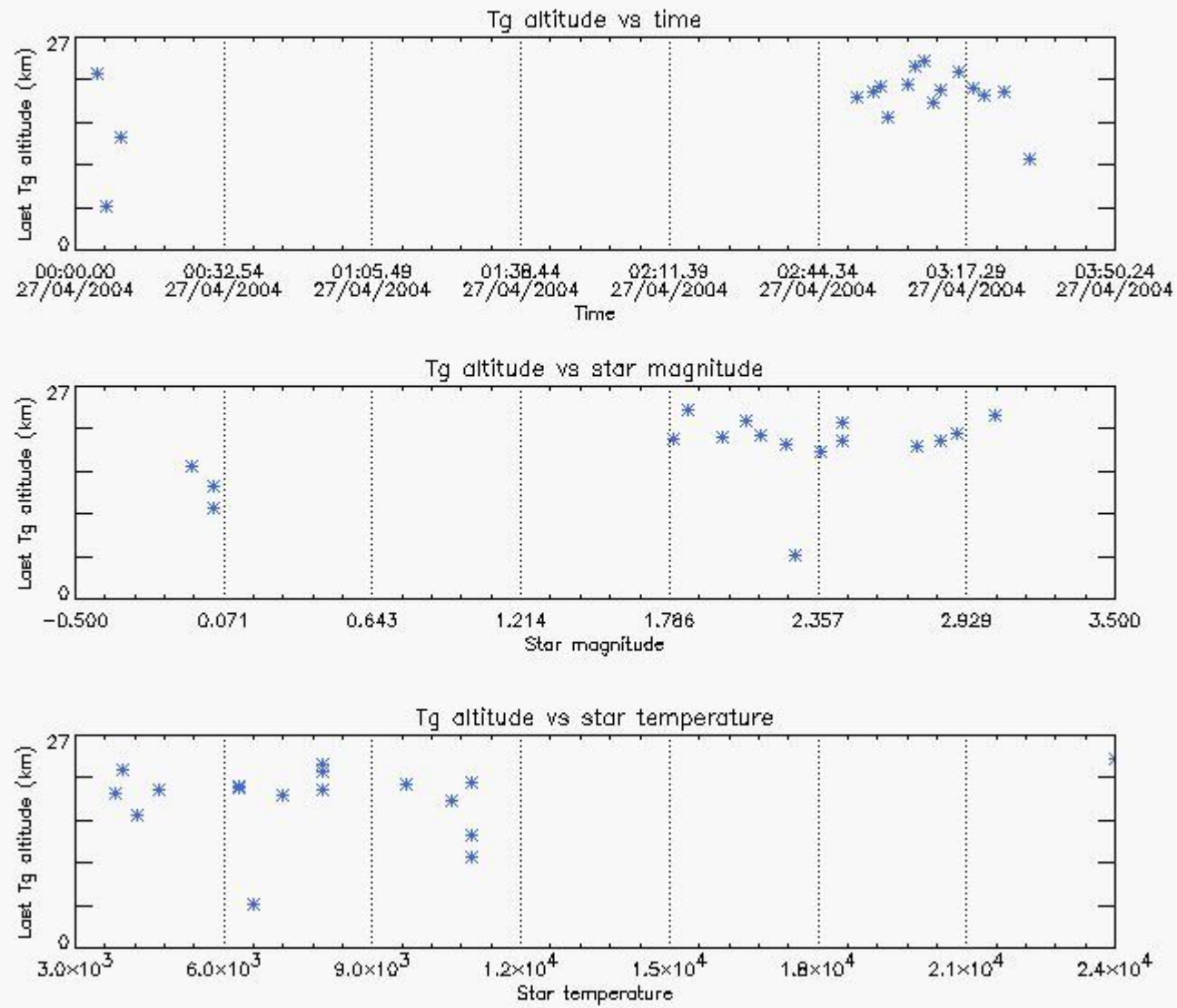


6.3 Plot for BRIGHT limb products





### 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

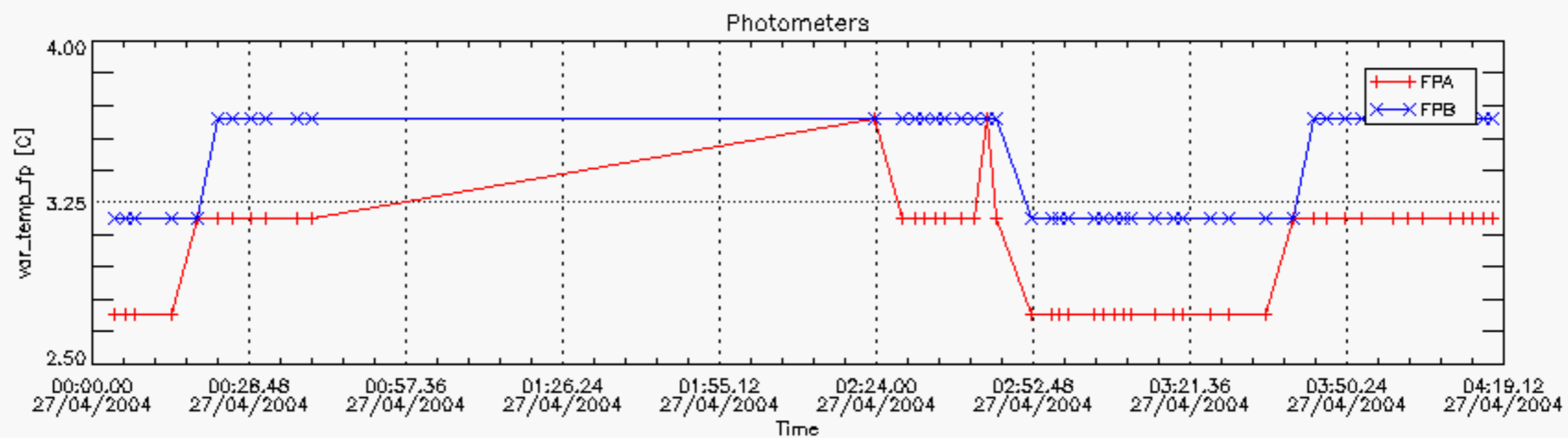
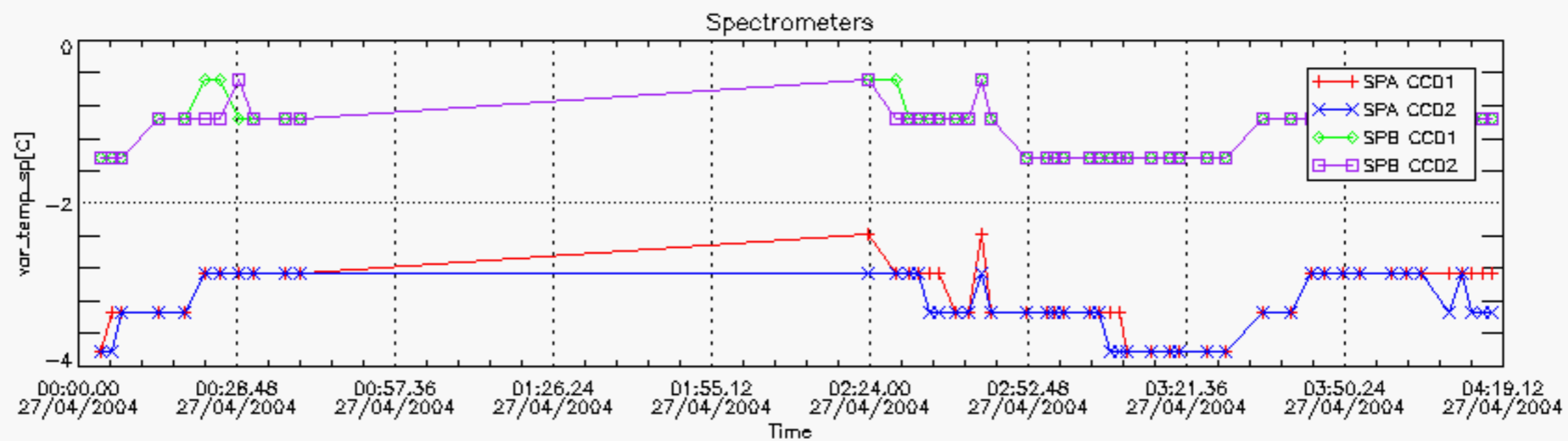
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

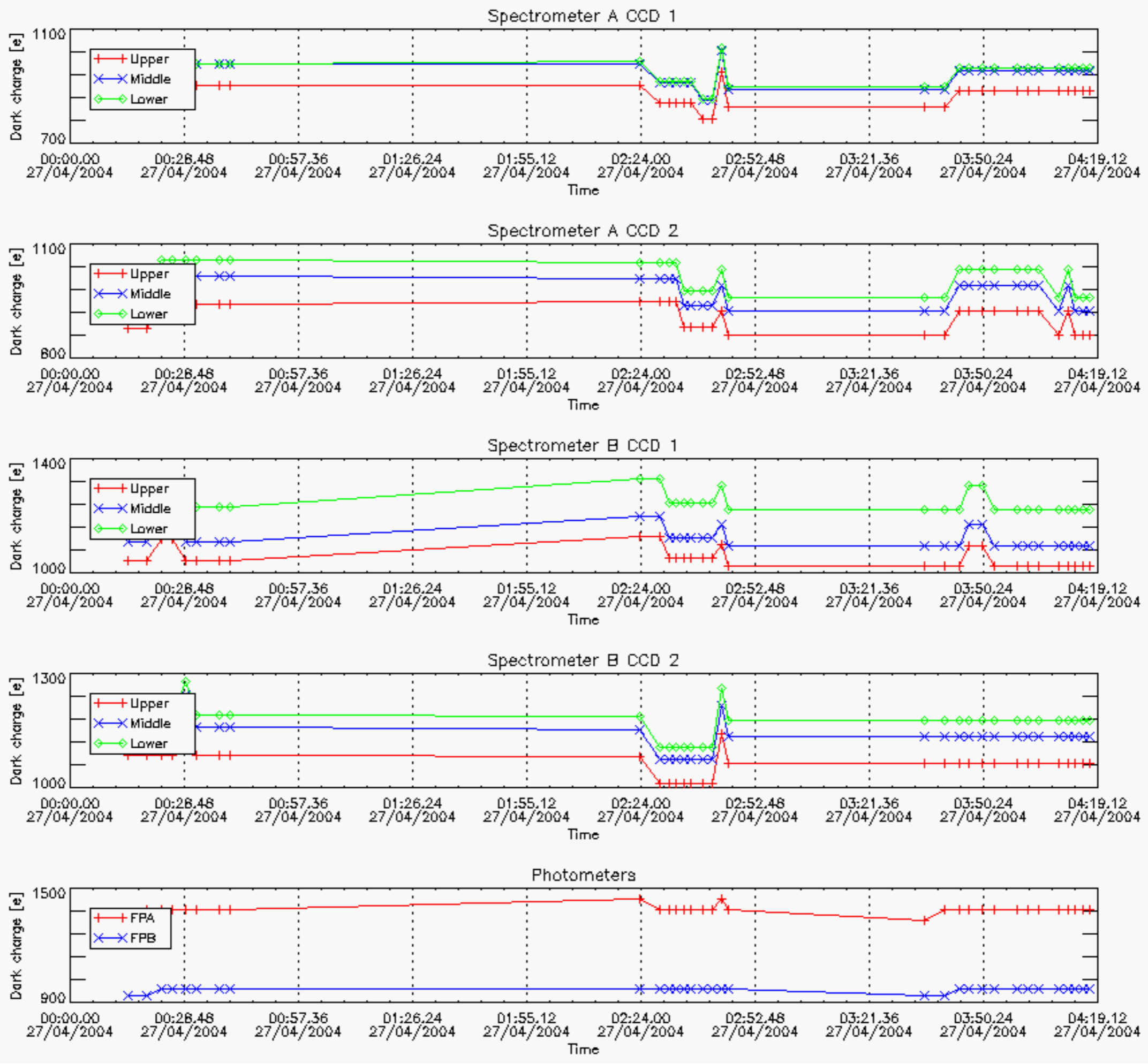
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.0	1448.2	1461.6	1448.4
St. deviation:	4.5791	5.5605	6.7605	7.2894
Maximum:	1494.0	1481.0	1510.0	1500.0
Minimum:	1447.0	1435.0	1449.0	1450.0
Number of data:	42350.	42350.	22900.	22900.





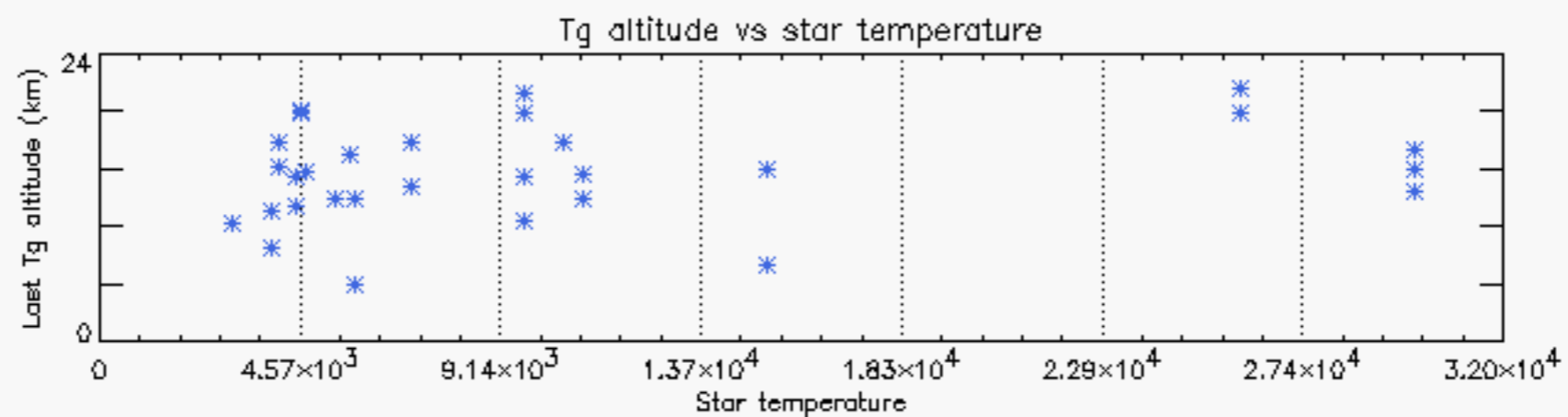
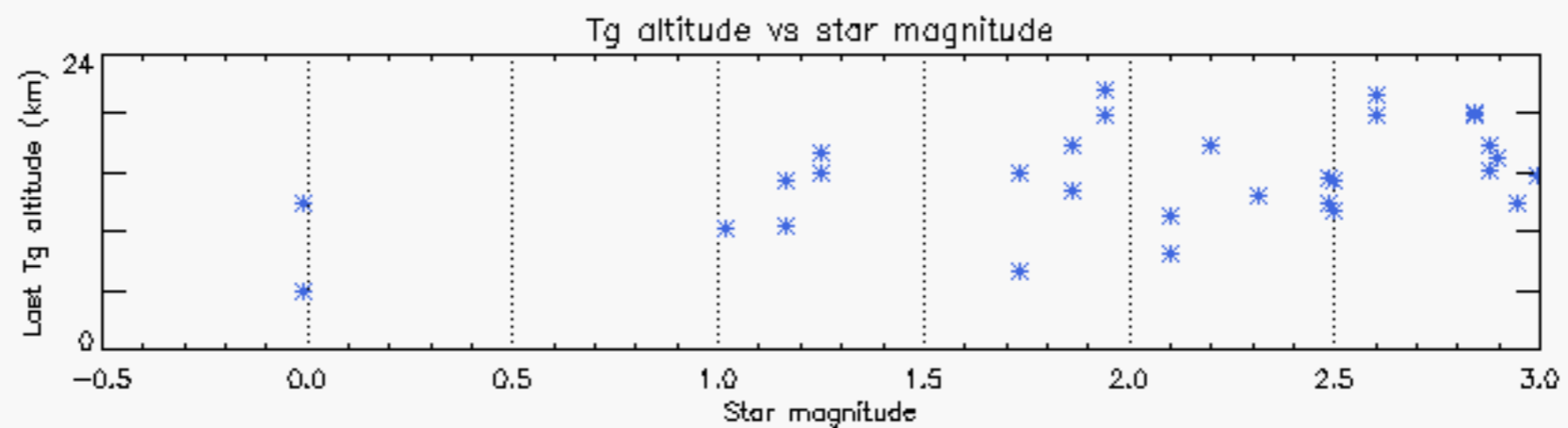
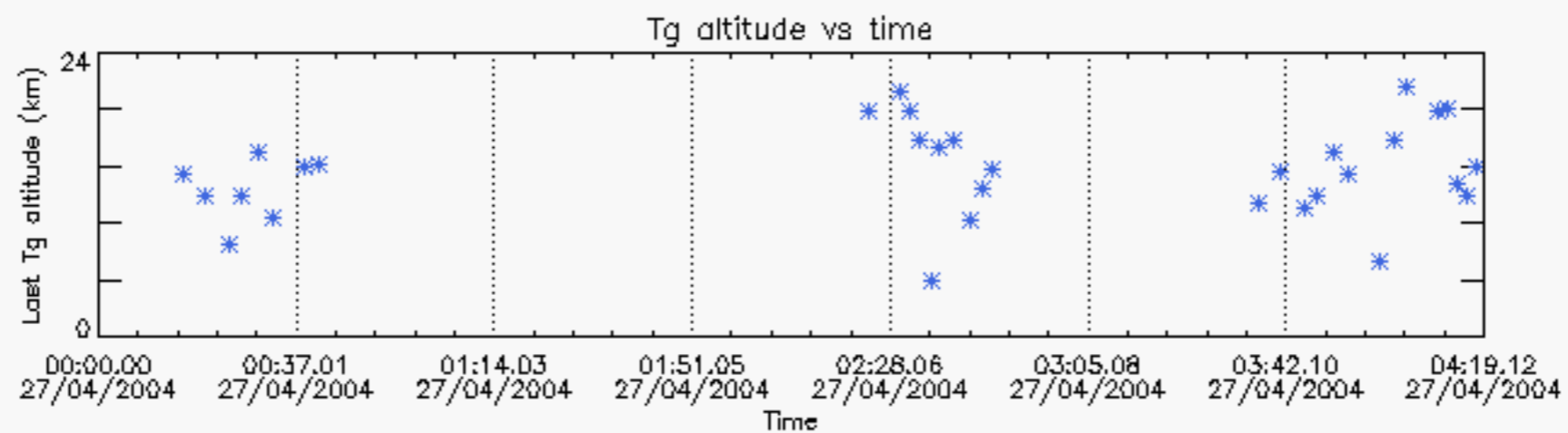






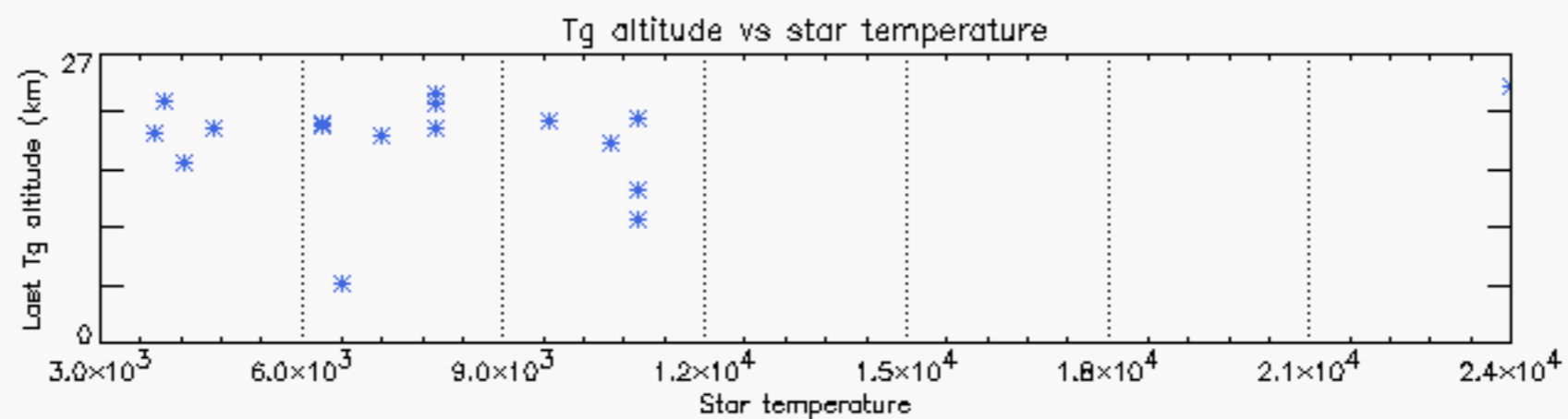
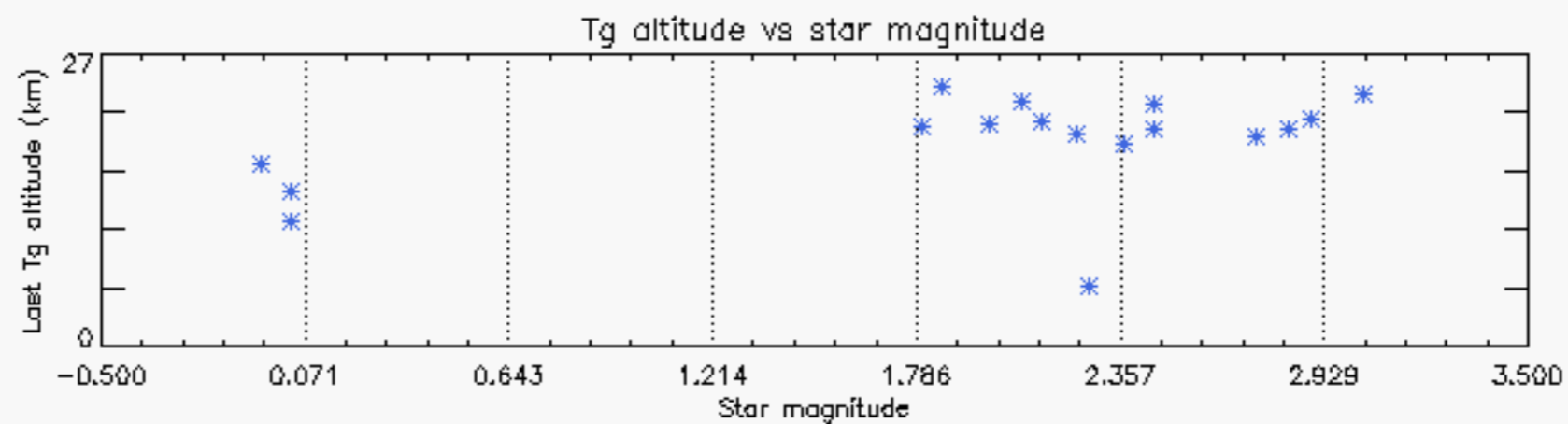
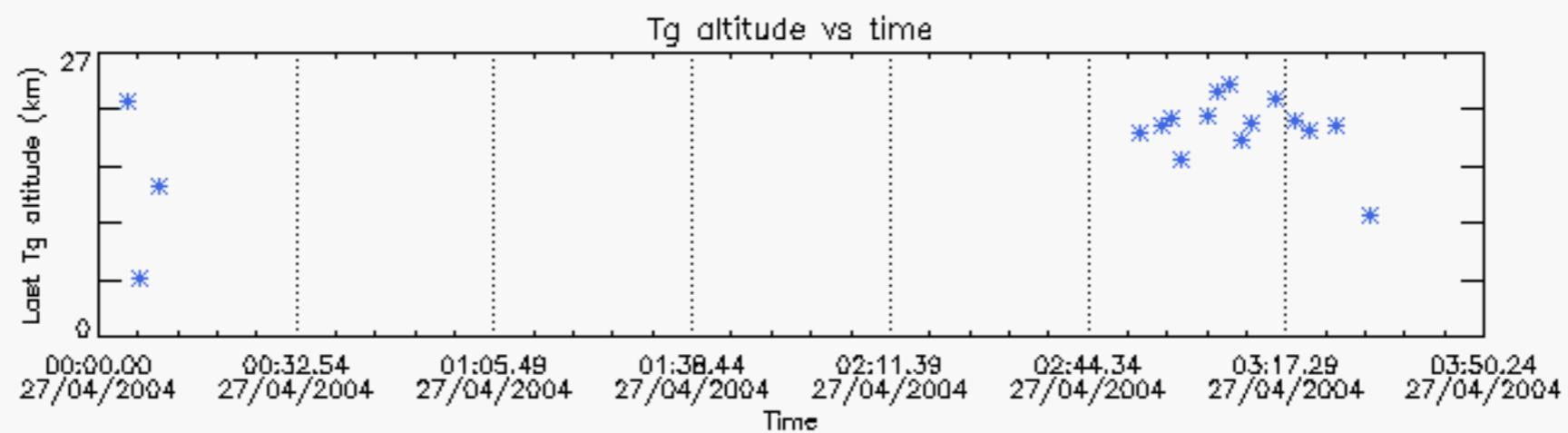


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/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  
 30; 899.0; 01-APR-2004 06:14:38; Dark ; 51.0; 26; Gam Cru ; 1.62; 2900;occ; 102; 0;10910  
 31; 1015.9; 01-APR-2004 06:16:35; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;10910  
 32; 1103.1; 01-APR-2004 06:18:02; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;10910  
 33; 1250.4; 01-APR-2004 06:20:29; Dark ; 159.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 318; 0;10910  
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 26; 407.2; 01-APR-2004 06:06:26; Dark ; 48.5; 43; Alp TrA ; 1.91; 4250;occ; 97; 0;10910  
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 31; 1015.9; 01-APR-2004 06:16:35; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;10910  
 32; 1103.1; 01-APR-2004 06:18:02; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;10910  
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 9;-3190.7; 01-APR-2004 06:47:04; Bright; 39.0; 87; 64Gam UMa ; 2.43; 11000;occ; 78; 0;10910  
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 16;-1724.7; 01-APR-2004 07:11:30; Bright; 46.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 93; 0;10910  
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 28; 519.6; 01-APR-2004 07:48:55; Dark ; 42.0; 134; Bet TrA ; 2.81; 6600;occ; 84; 0;10911  
 29; 677.8; 01-APR-2004 07:51:33; Dark ; 48.5; 4; Alp1Cen ; -0.01; 5800;occ; 97; 0;10911  
 30; 812.4; 01-APR-2004 07:53:47; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;10911  
 31; 899.6; 01-APR-2004 07:55:14; Dark ; 45.5; 26; Gam Cru ; 1.62; 2900;occ; 91; 0;10911  
 32; 1016.7; 01-APR-2004 07:57:12; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;10911  
 33; 1103.3; 01-APR-2004 07:58:38; Dark ; 54.0; 54; 5The Cen ; 2.06; 4500;occ; 108; 0;10911  
 34; 1250.9; 01-APR-2004 08:01:06; Dark ; 154.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 308; 0;10911  
 35; 1578.3; 01-APR-2004 08:06:33; Dark ; 44.0; 100; 4Gam Crv ; 2.58; 13100;occ; 88; 0;10911  
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 5;-3676.4; 01-APR-2004 08:19:34; Bright; 37.5; 166; 17Eps Leo ; 2.98; 6000;occ; 75; 0;10911  
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 12;-2198.5; 01-APR-2004 08:44:12; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;10911  
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 16;-1603.1; 01-APR-2004 08:54:08; Bright; 45.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 91; 0;10911  
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 19;-777.4; 01-APR-2004 09:07:53; Dark ; 40.0; 142; 49Del Cap ; 2.85; 8900;occ; 80; 0;10911  
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33; 1252.5; 01-APR-2004 09:41:43; Dark ; 159.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 318; 0;10912
34; 1578.2; 01-APR-2004 09:47:09; Dark ; 44.0; 100; 4Gam Crv ; 2.58; 13100;occ; 88; 0;10912
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22; -166.5; 01-APR-2004 10:58:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10912
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24; 75.7; 01-APR-2004 11:02:42; Dark ; 66.5; 116; 19Del Sgr ; 2.70; 4100;occ; 133; 0;10913
25; 287.9; 01-APR-2004 11:06:15; Dark ; 54.5; 85; Kap Sco ; 2.41; 28000;occ; 109; 0;10913
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27; 520.9; 01-APR-2004 11:10:08; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;10913
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31; 1016.8; 01-APR-2004 11:18:23; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;10913
32; 1103.8; 01-APR-2004 11:19:50; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;10913
33; 1253.8; 01-APR-2004 11:22:20; Dark ; 158.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 316; 0;10913
34; 1578.3; 01-APR-2004 11:27:45; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;10913
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9;-3194.1; 02-APR-2004 01:13:36; Bright; 38.0; 87; 64Gam UMa ; 2.43; 11000;occ; 76; 0;10921
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15;-1894.6; 30-APR-2004 05:16:33; Bright; 59.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 118; 0;11324
16;-1777.9; 30-APR-2004 05:18:29; Bright; 73.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 147; 0;11324
17;-1564.8; 30-APR-2004 05:22:03; Dark ; 82.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 164; 0;11324
18;-1265.5; 30-APR-2004 05:27:02; Dark ; 44.5; 90; 54Alp Peg ; 2.49; 11000;occ; 89; 0;11324
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