

GOMOS Daily Report 01-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	02APR2004 06:56:03
Data source version	GOMOS/4.02
Start time of products	01-APR-2004 (01APR2004 00:00:00)
Stop time of products	02-APR-2004 (02APR2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	31
Nb of prods with errors	0

2. Summary of products arrived in PCF

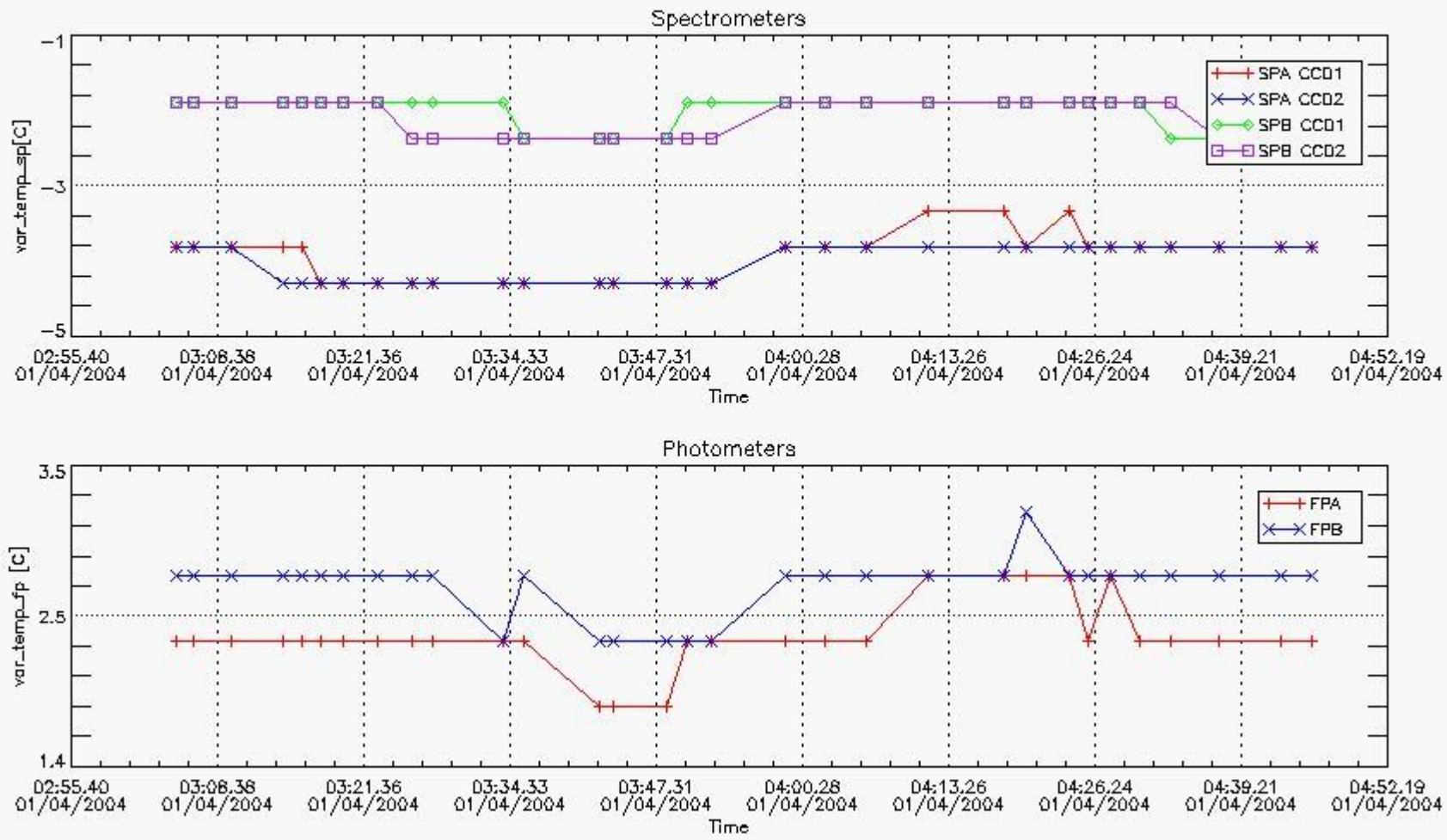
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040401_030456_000000452025_00333_10908_0000.N1	01-APR-2004 03:04:56	Dark	45.000	163	7Del Crv	2.9450	11000.	90	10908	No
GOM_TRA_1PNPDE20040401_030633_000000672025_00333_10908_0001.N1	01-APR-2004 03:06:33	Dark	66.500	15	67Alp Vir	0.97600	28000.	133	10908	No
GOM_TRA_1PNPDE20040401_030948_000000462025_00333_10908_0002.N1	01-APR-2004 03:09:48	Bright	45.500	121	29Gam Vir	2.7400	7200.0	91	10908	No
GOM_TRA_1PNPDE20040401_031425_000000412025_00333_10908_0003.N1	01-APR-2004 03:14:25	Bright	40.500	62	94Bet Leo	2.1360	9700.0	81	10908	No
GOM_TRA_1PNPDE20040401_031602_000000392025_00333_10908_0004.N1	01-APR-2004 03:16:02	Bright	39.000	96	68Del Leo	2.5600	9300.0	78	10908	No
GOM_TRA_1PNPDE20040401_031745_000000382025_00333_10908_0005.N1	01-APR-2004 03:17:45	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	10908	No
GOM_TRA_1PNPDE20040401_031942_000000682025_00333_10908_0006.N1	01-APR-2004 03:19:42	Bright	67.500	111	8Eta Boo	2.6800	6000.0	135	10908	No
GOM_TRA_1PNPDE20040401_032252_000000372025_00333_10908_0007.N1	01-APR-2004 03:22:52	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	10908	No
GOM_TRA_1PNPDE20040401_032552_000000402025_00333_10908_0008.N1	01-APR-2004 03:25:52	Bright	39.500	87	64Gam UMa	2.4330	11000.	79	10908	No
GOM_TRA_1PNPDE20040401_032742_000000382025_00333_10908_0009.N1	01-APR-2004 03:27:42	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	10908	No
GOM_TRA_1PNPDE20040401_033401_000000422025_00333_10908_0010.N1	01-APR-2004 03:34:01	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	10908	No
GOM_TRA_1PNPDE20040401_033545_000000392025_00333_10908_0011.N1	01-APR-2004 03:35:45	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	10908	No
GOM_TRA_1PNPDE20040401_034224_000000362025_00333_10908_0012.N1	01-APR-2004 03:42:24	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	10908	No
GOM_TRA_1PNPDE20040401_034344_000000362025_00333_10908_0013.N1	01-APR-2004 03:43:44	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	10908	No
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GOM_TRA_1PNPDE20040401_035018_000000462025_00333_10908_0015.N1	01-APR-2004 03:50:18	Bright	46.000	66	37Gam Cyg	2.2080	5900.0	92	10908	No
GOM_TRA_1PNPDE20040401_035220_000000422025_00333_10908_0016.N1	01-APR-2004 03:52:20	Bright	41.500	92	53Eps Cyg	2.5000	4500.0	83	10908	No
GOM_TRA_1PNPDE20040401_035854_000000492025_00333_10908_0017.N1	01-APR-2004 03:58:54	Dark	49.000	61	8Eps Peg	2.1000	3900.0	98	10908	No
GOM_TRA_1PNPDE20040401_040231_000000682025_00333_10908_0018.N1	01-APR-2004 04:02:31	Dark	67.500	11	53Alp Aql	0.76500	8000.0	135	10908	No
GOM_TRA_1PNPDE20040401_040604_000000422025_00333_10908_0019.N1	01-APR-2004 04:06:04	Dark	42.000	142	49Del Cap	2.8500	8900.0	84	10908	No
GOM_TRA_1PNPDE20040401_041140_000000412025_00333_10908_0020.N1	01-APR-2004 04:11:40	Dark	41.000	172	Gam Gru	3.0030	13100.	82	10908	No
GOM_TRA_1PNPDE20040401_041816_000000432025_00333_10908_0021.N1	01-APR-2004 04:18:16	Dark	42.500	45	Alp Pav	1.9400	26000.	85	10908	No
GOM_TRA_1PNPDE20040401_042013_000000652025_00334_10909_0022.N1	01-APR-2004 04:20:13	Dark	65.000	116	19Del Sgr	2.7000	4100.0	130	10909	No
GOM_TRA_1PNPDE20040401_042405_000000542025_00334_10909_0023.N1	01-APR-2004 04:24:05	Dark	53.500	40	The Sco	1.8590	7100.0	107	10909	No
GOM_TRA_1PNPDE20040401_042550_000000452025_00334_10909_0024.N1	01-APR-2004 04:25:50	Dark	45.000	43	Alp TrA	1.9100	4250.0	90	10909	No
GOM_TRA_1PNPDE20040401_042741_000000422025_00334_10909_0025.N1	01-APR-2004 04:27:41	Dark	42.000	134	Bet TrA	2.8100	6600.0	84	10909	No
GOM_TRA_1PNPDE20040401_043020_000000472025_00334_10909_0026.N1	01-APR-2004 04:30:20	Dark	46.500	4	Alp1Cen	-0.010000	5800.0	93	10909	No
GOM_TRA_1PNPDE20040401_043307_000001092025_00334_10909_0027.N1	01-APR-2004 04:33:07	Dark	108.50	16	21Alp Sco	1.0200	3000.0	217	10909	No
GOM_TRA_1PNPDE20040401_043725_000000552025_00334_10909_0028.N1	01-APR-2004 04:37:25	Dark	54.500	54	5The Cen	2.0550	4500.0	109	10909	No
GOM_TRA_1PNPDE20040401_044253_000000512025_00334_10909_0029.N1	01-APR-2004 04:42:53	Dark	50.500	169	46Gam Hya	2.9910	4700.0	101	10909	No
GOM_TRA_1PNPDE20040401_044532_000000102025_00334_10909_0030.N1	01-APR-2004 04:45:32	Dark	9.5000	163	7Del Crv	2.9450	11000.	19	10909	No

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



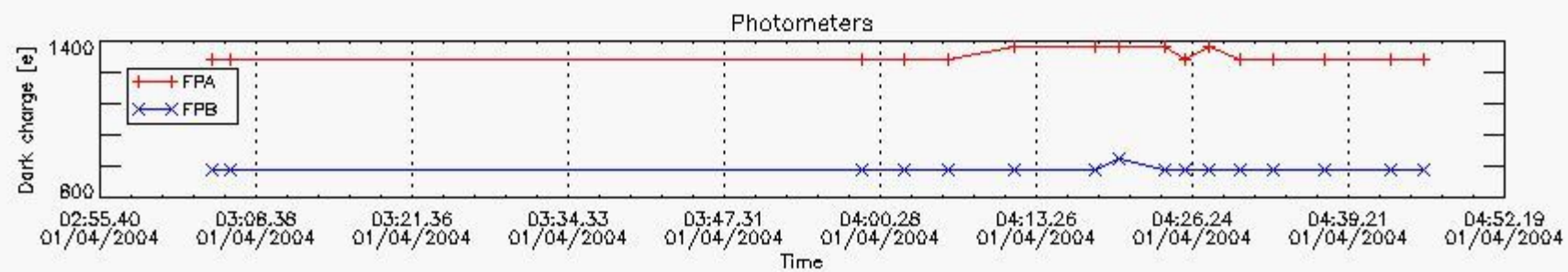
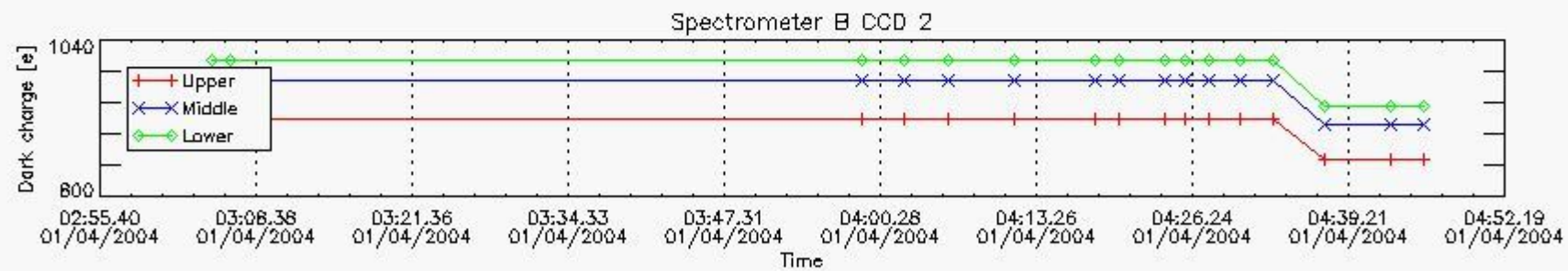
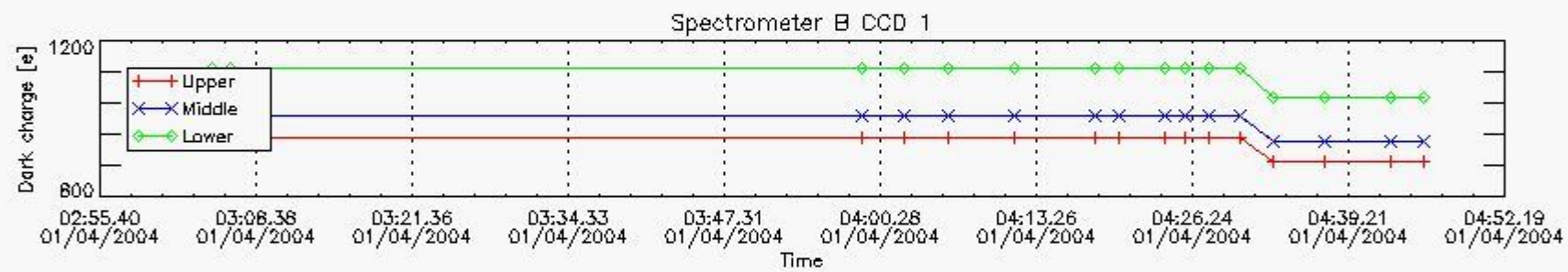
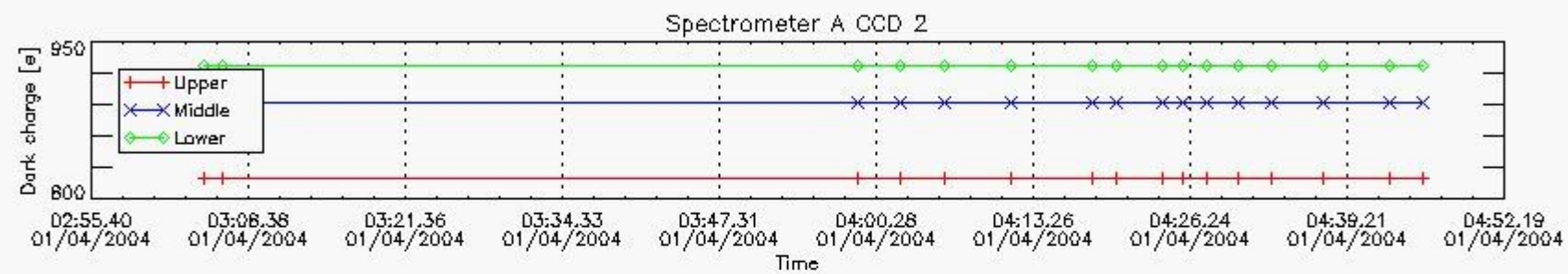
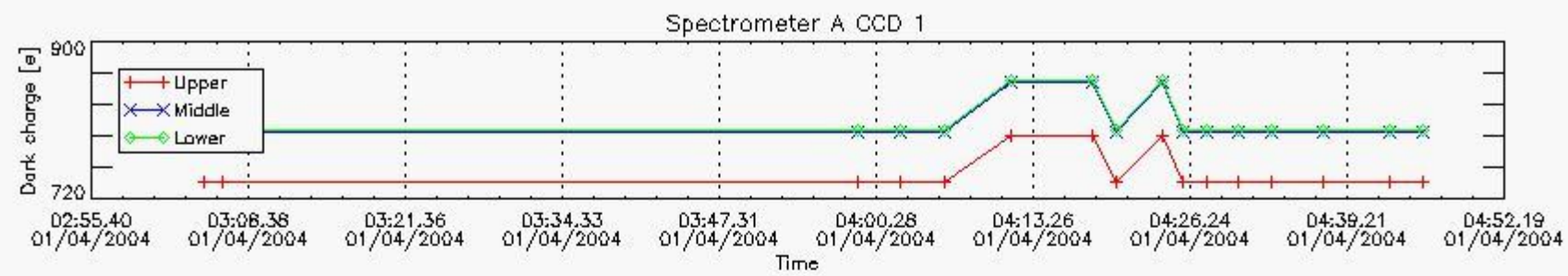
4. Overview of dark signal processing per product

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

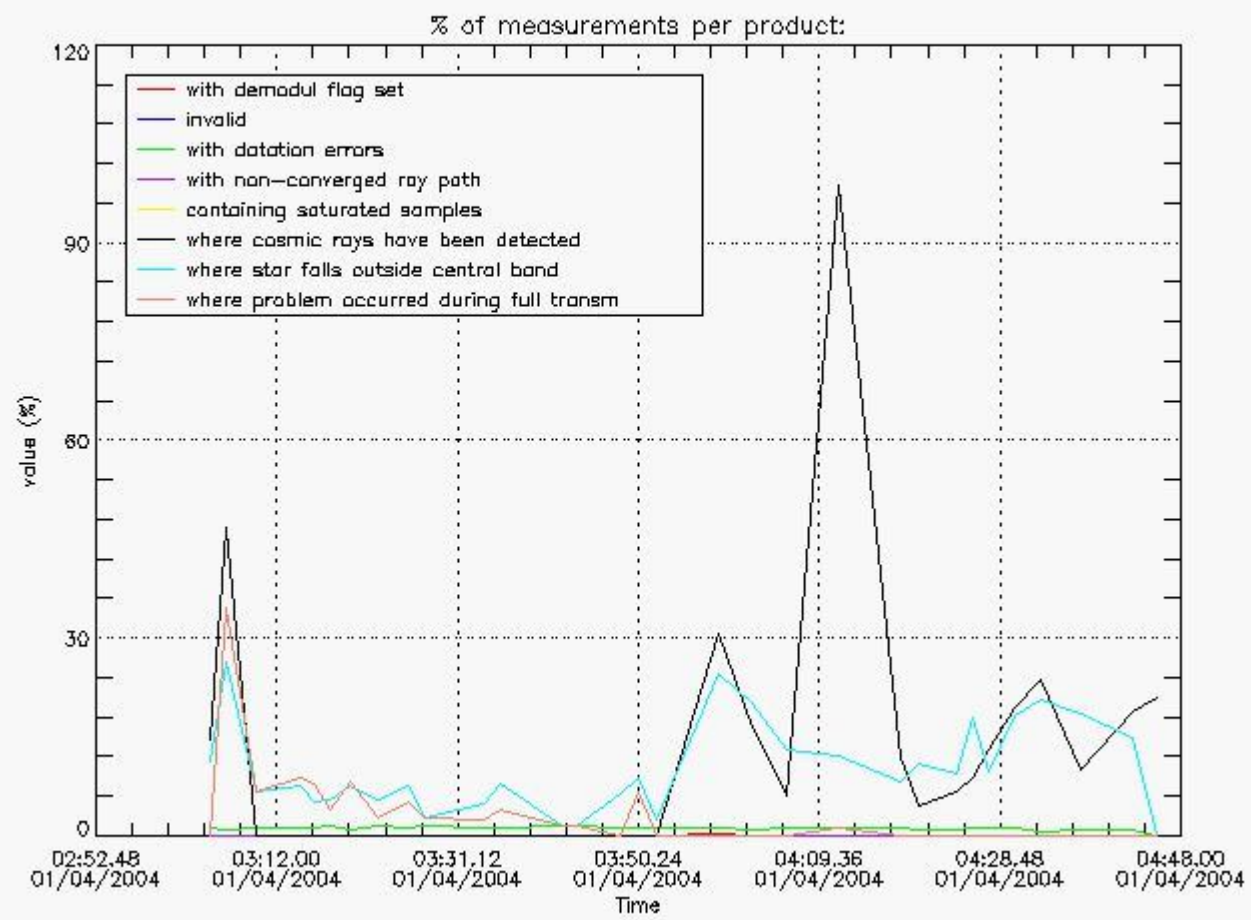


5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	6.45161 %
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



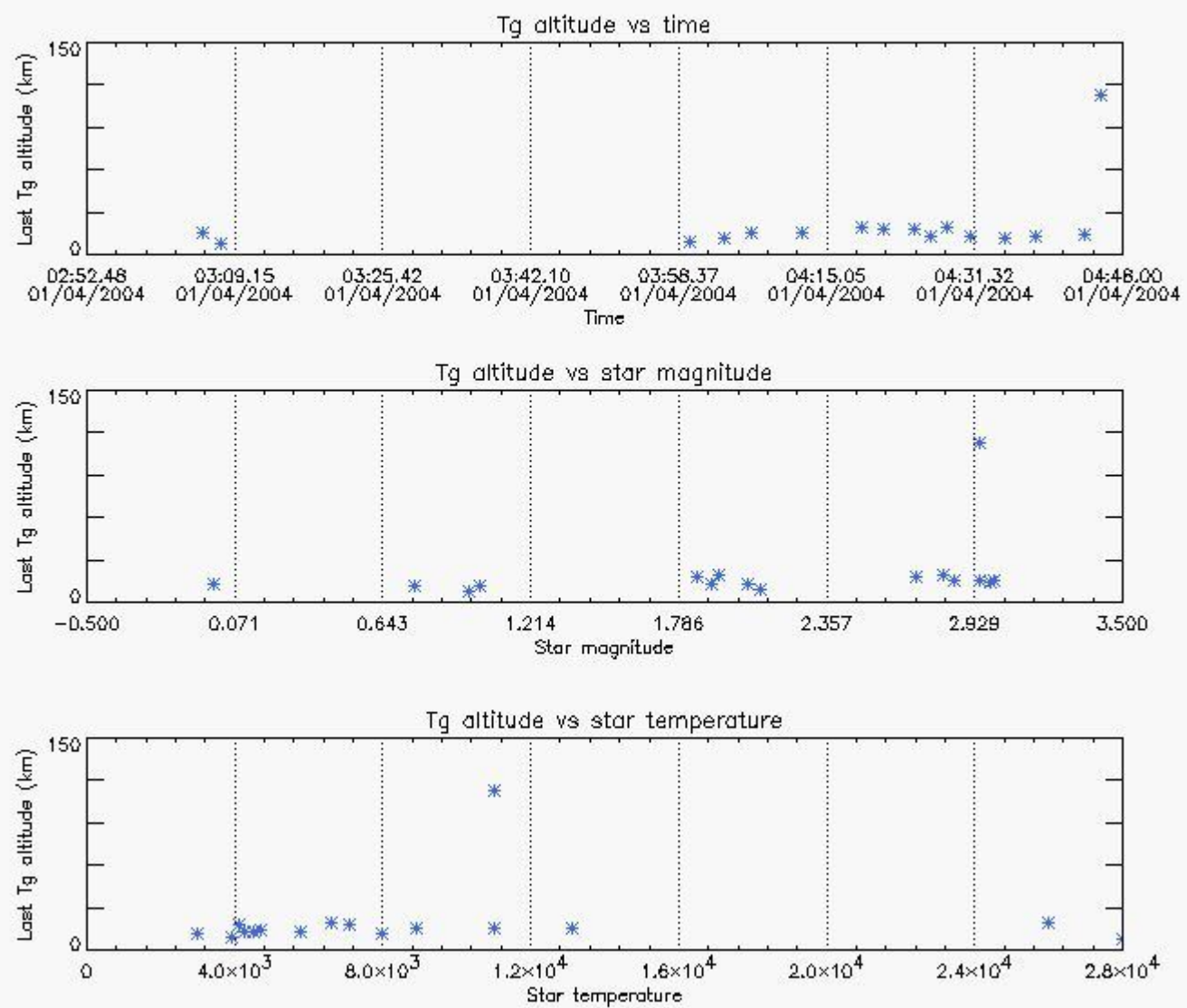
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	20.368	21.668
St. deviation:	24.819	2.3964
Maximum:	112.61	26.233
Minimum:	7.9688	18.851
Number of data:	16.000	15.000

6.2 Plot for DARK limb products

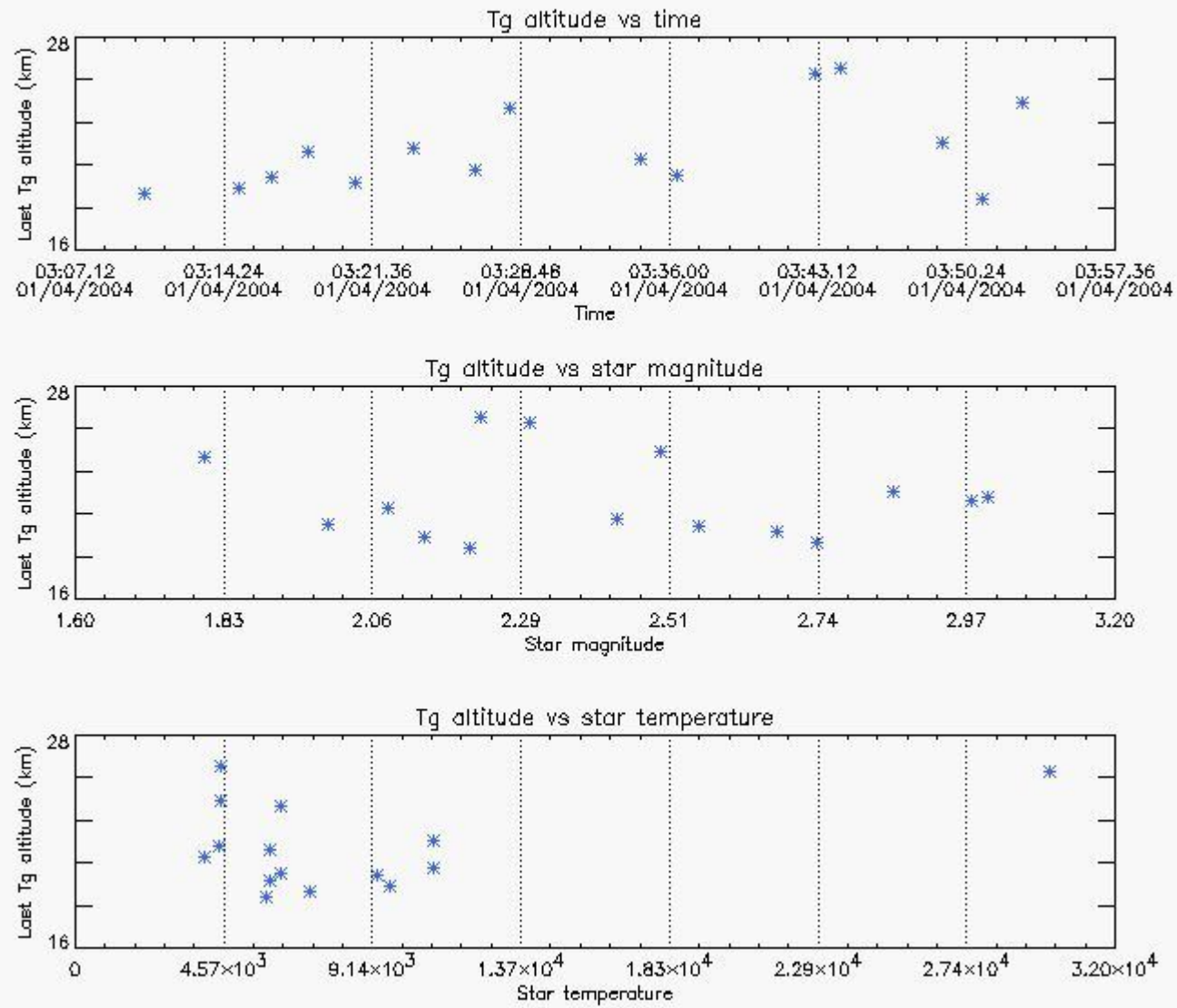
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



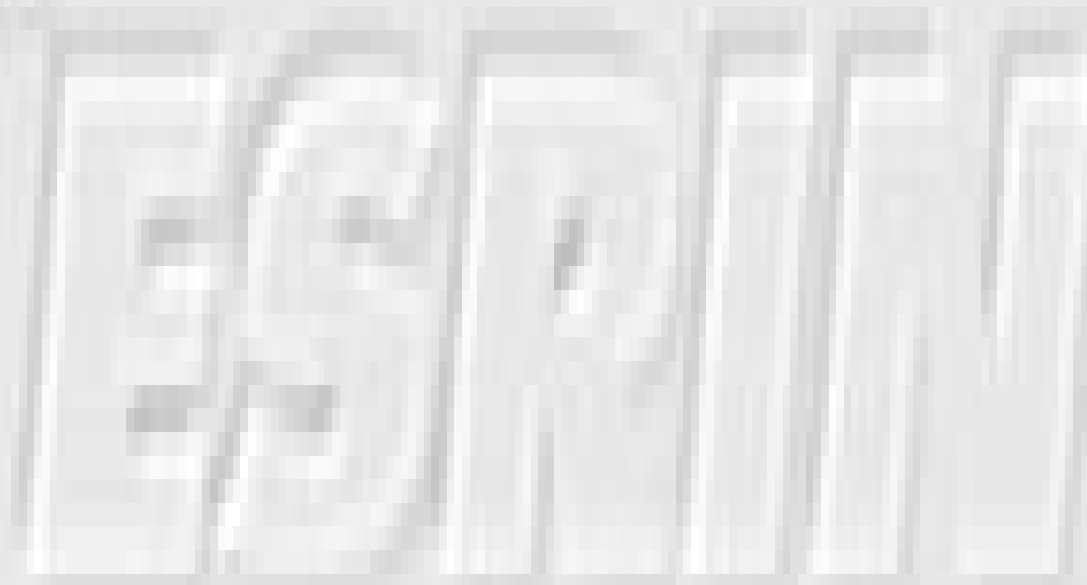
Tangent altitude at which the star is lost



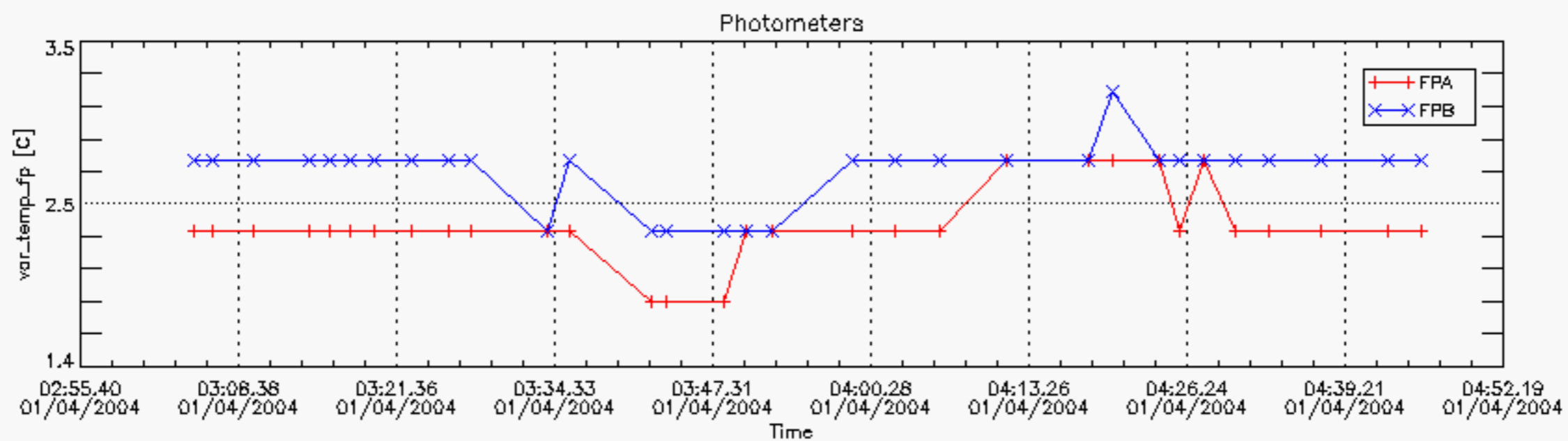
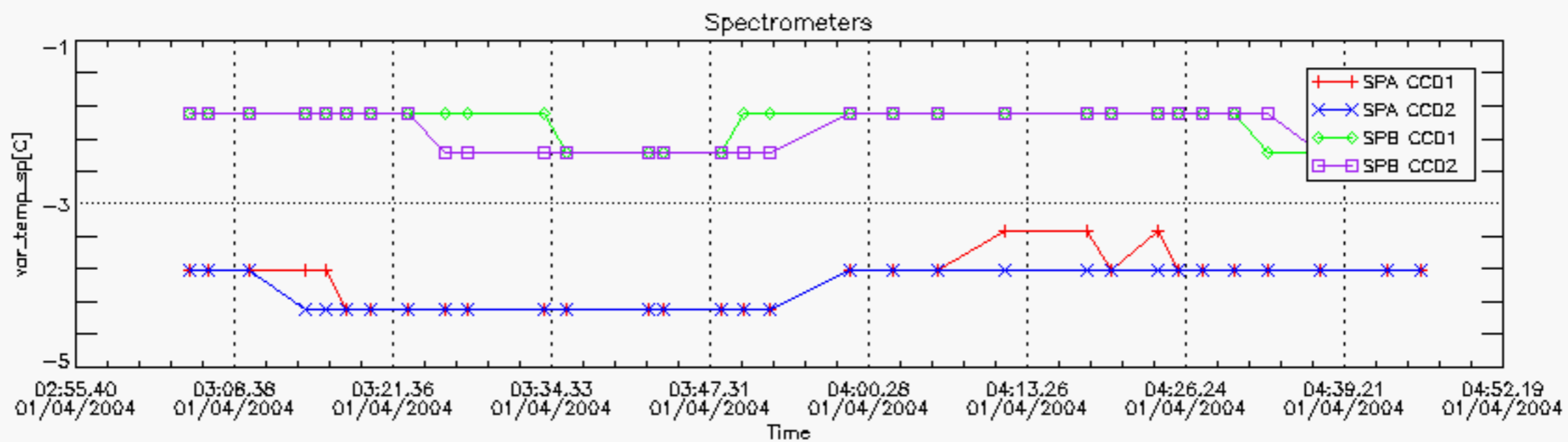
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

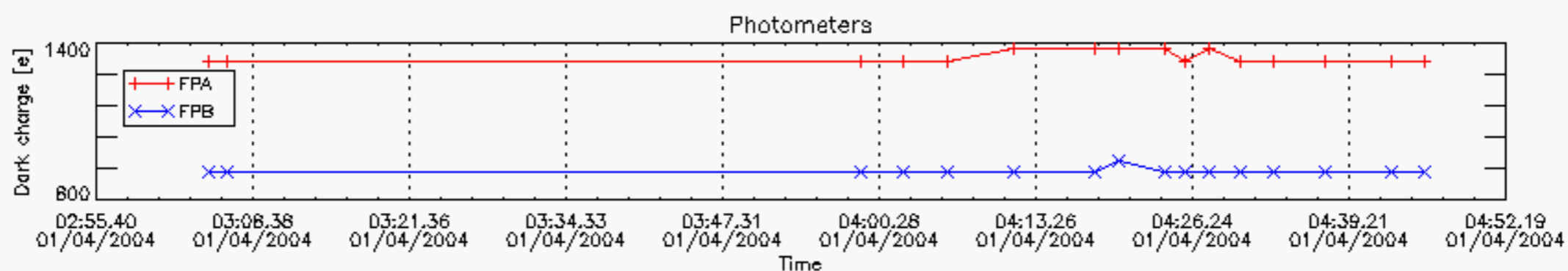
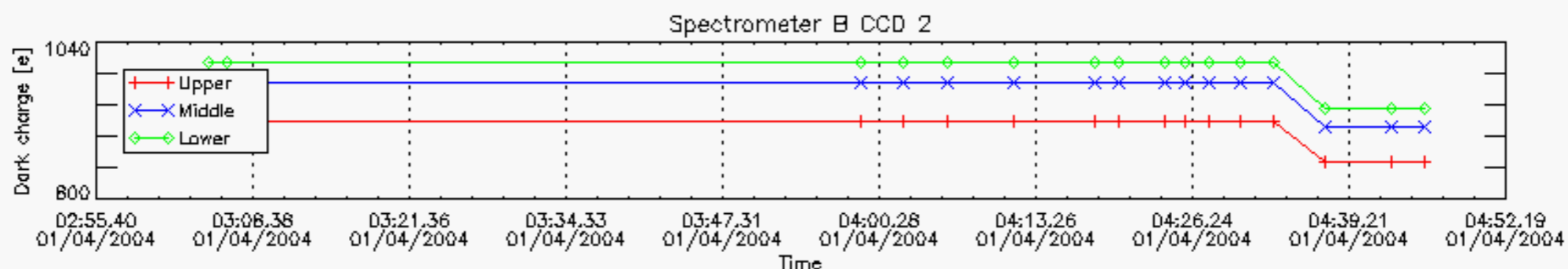
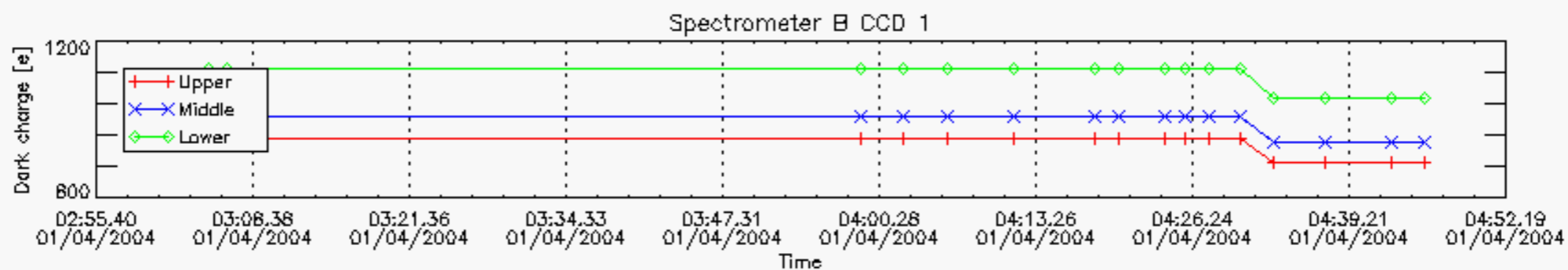
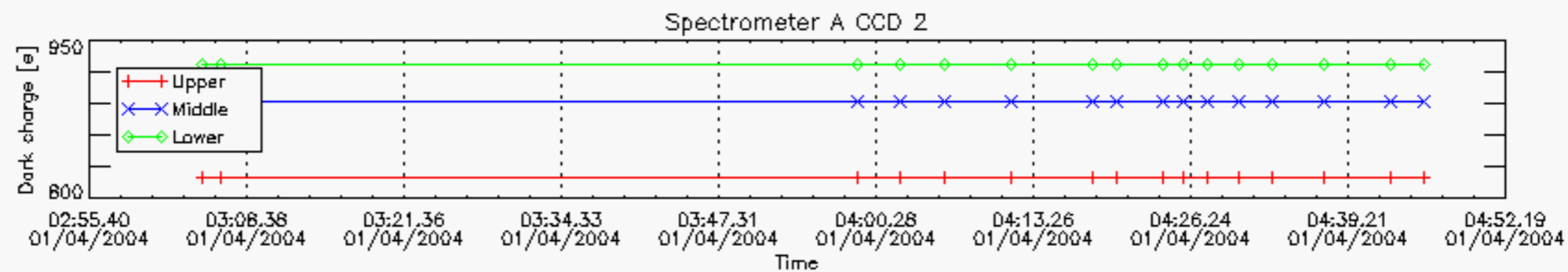
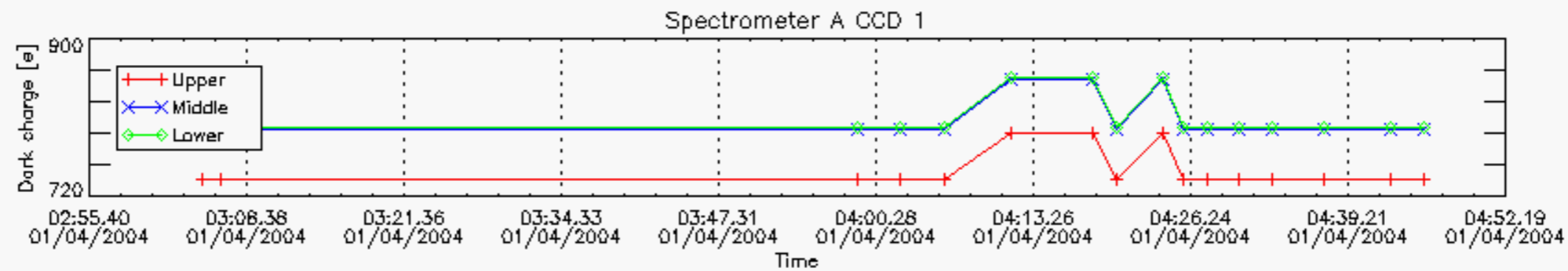
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1462.2	1448.0	1461.3	1447.1
St. deviation:	5.5191	8.4491	7.2757	9.6464
Maximum:	1502.0	1503.0	1500.0	1517.0
Minimum:	1426.0	1394.0	1441.0	1427.0
Number of data:	21150.	21150.	16950.	16950.

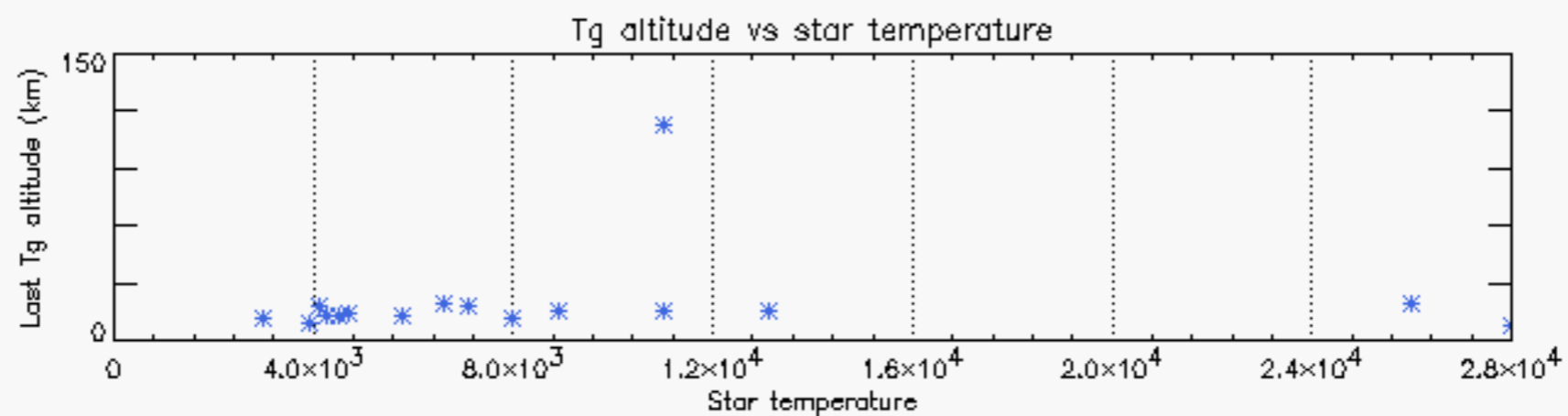
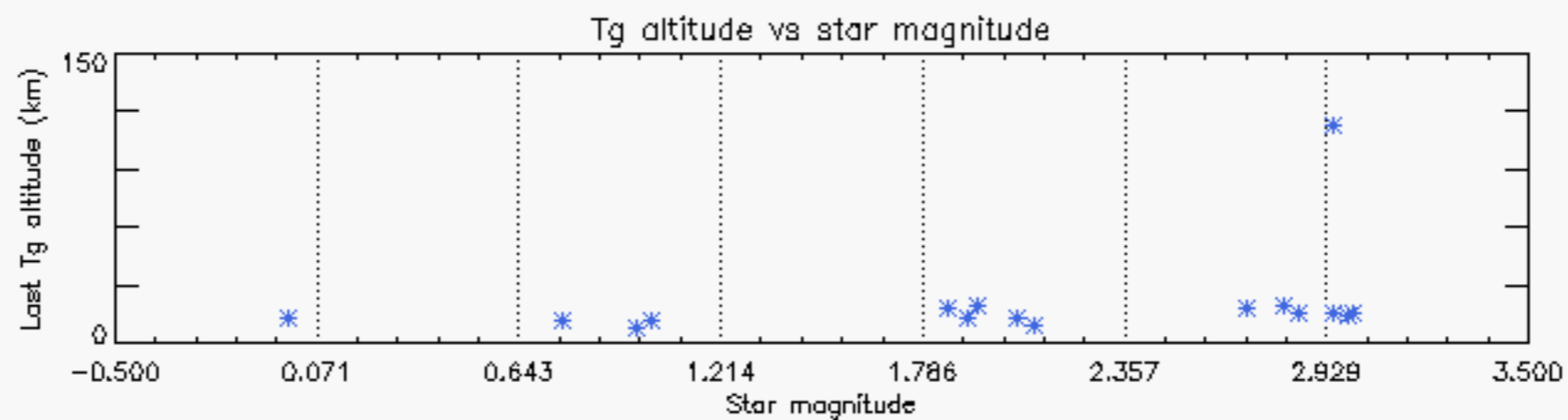
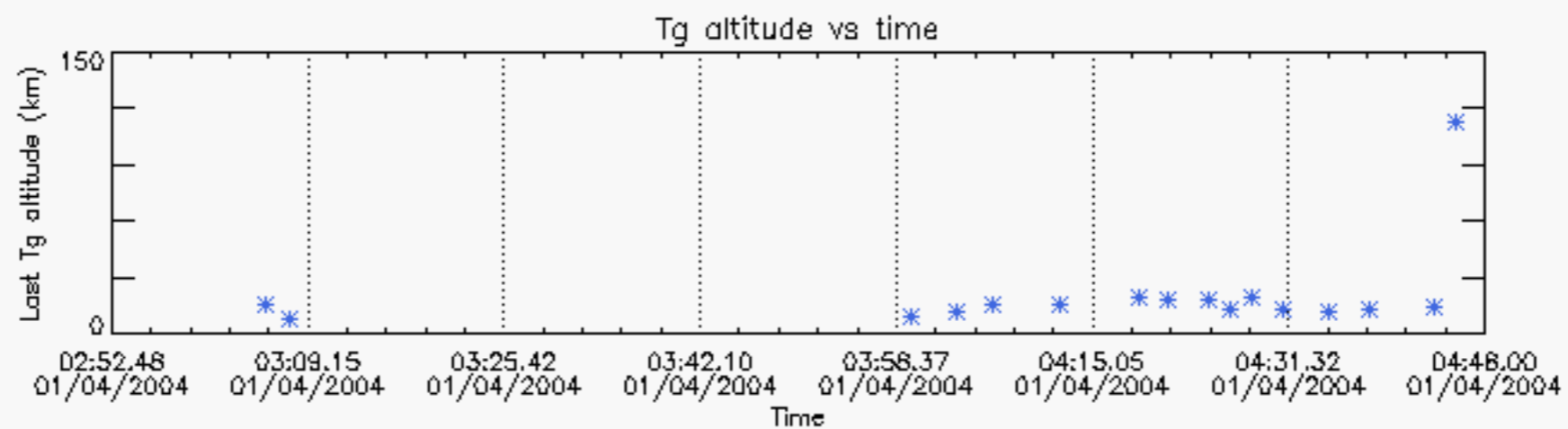




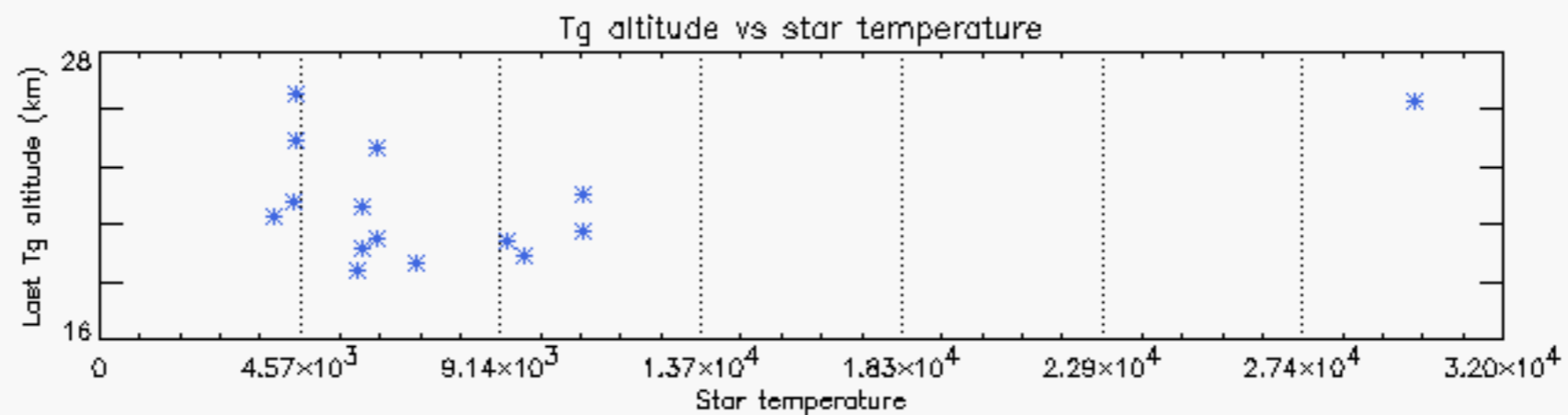
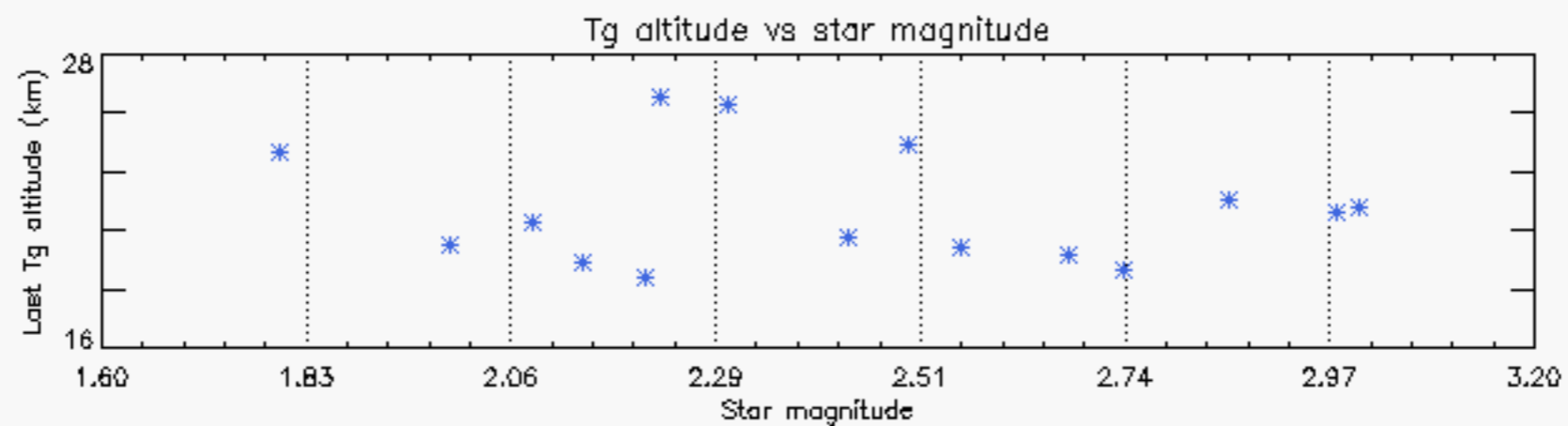
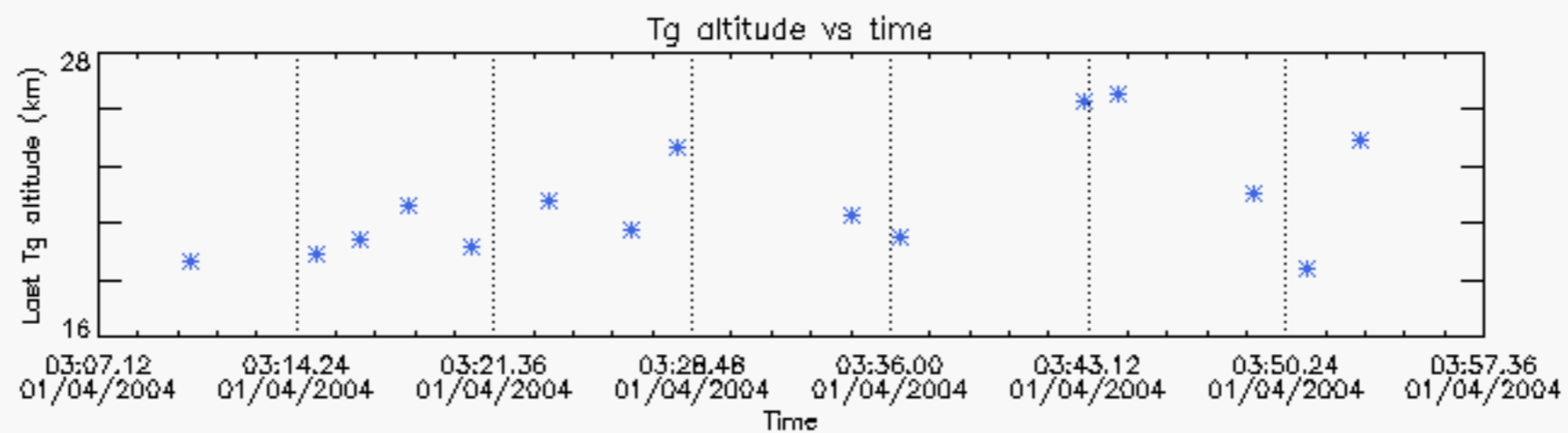




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL__0PNPDE20040401_012141_000060872025_00332_10907_0118.N1

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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
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
24; -46.9; 01-APR-2004 02:37:40; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;10907
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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1; -4350.3; 01-APR-2004 11:29:32; Dark ; 59.0; 15; 67Alp Vir ; 0.98; 28000;occ; 118; 0;10913
2; -4155.5; 01-APR-2004 11:32:47; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;10913
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
8; -3191.5; 01-APR-2004 11:48:51; Bright; 38.5; 87; 64Gam UMa ; 2.43; 11000;occ; 77; 0;10913
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10; -2703.5; 01-APR-2004 11:56:59; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;10913
11; -2597.4; 01-APR-2004 11:58:45; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;10913
12; -2197.2; 01-APR-2004 12:05:25; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;10913
13; -2117.2; 01-APR-2004 12:06:45; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;10913
14; -1839.6; 01-APR-2004 12:11:23; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;10913
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