

GOMOS Daily Report 24-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	26APR2004 14:47:33
Data source version	GOMOS/4.02
Start time of products	24-APR-2004 (24APR2004 00:00:00)
Stop time of products	25-APR-2004 (25APR2004 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

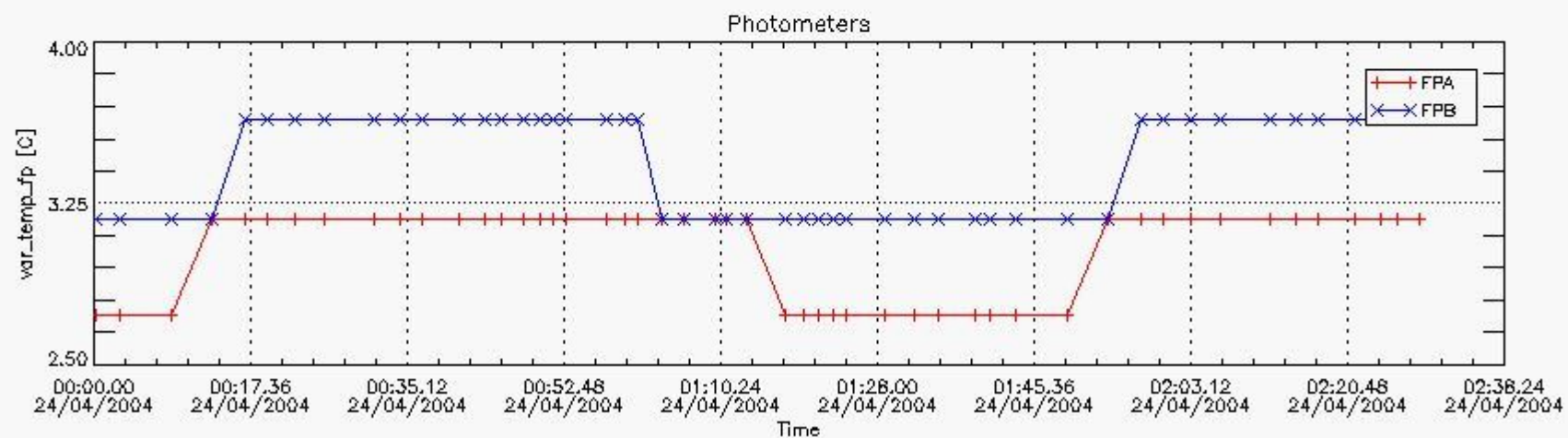
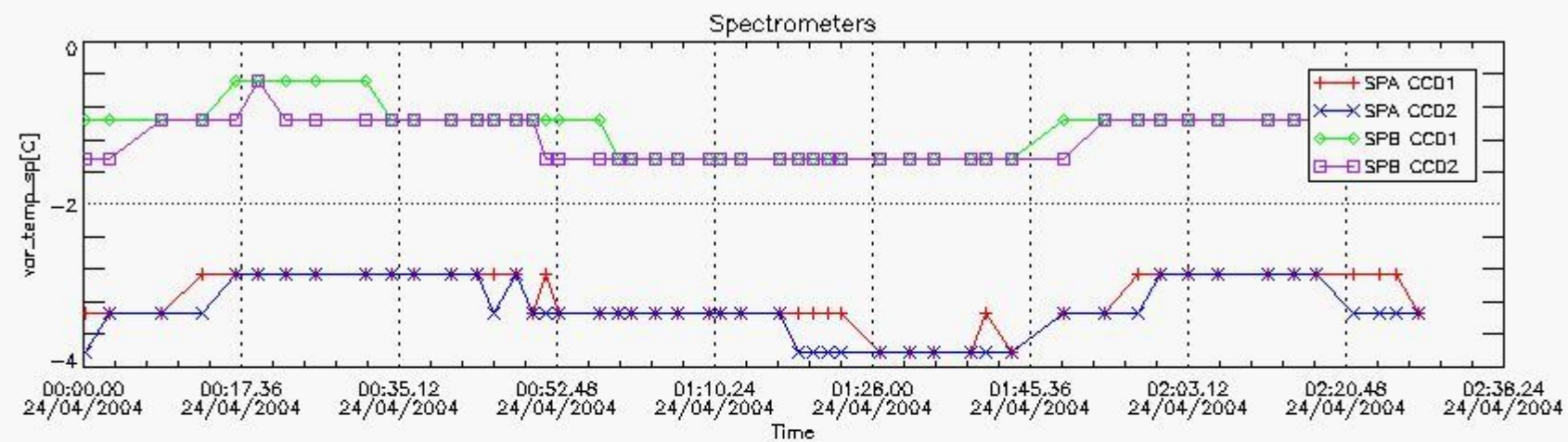
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040424_000010_000000372026_00159_11235_0018.N1	24-APR-2004 00:00:10	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	11235	No
GOM_TRA_1PNPDE20040424_000255_000001392026_00159_11235_0019.N1	24-APR-2004 00:02:55	Bright	138.50	5	3Alp Lyr	0.033000	11000.	277	11235	No
GOM_TRA_1PNPDE20040424_000839_000000712026_00159_11235_0020.N1	24-APR-2004 00:08:39	Dark	71.000	92	53Eps Cyg	2.5000	4500.0	142	11235	No
GOM_TRA_1PNPDE20040424_001318_000000442026_00159_11235_0021.N1	24-APR-2004 00:13:18	Dark	44.000	90	54Alp Peg	2.4870	11000.	88	11235	No
GOM_TRA_1PNPDE20040424_001656_000000662026_00159_11235_0022.N1	24-APR-2004 00:16:56	Dark	66.000	61	8Eps Peg	2.1000	3900.0	132	11235	No
GOM_TRA_1PNPDE20040424_001924_000000512026_00159_11235_0023.N1	24-APR-2004 00:19:24	Dark	51.000	162	34Alp Aqr	2.9440	5350.0	102	11235	No
GOM_TRA_1PNPDE20040424_002232_000000592026_00159_11235_0024.N1	24-APR-2004 00:22:32	Dark	59.000	154	22Bet Aqr	2.8990	5700.0	118	11235	No
GOM_TRA_1PNPDE20040424_002553_000000432026_00159_11235_0025.N1	24-APR-2004 00:25:53	Dark	42.500	18	24Alp PsA	1.1660	9700.0	85	11235	No
GOM_TRA_1PNPDE20040424_003132_000000422026_00159_11235_0026.N1	24-APR-2004 00:31:32	Dark	42.000	31	Alp Gru	1.7340	15200.	84	11235	No
GOM_TRA_1PNPDE20040424_003424_000000452026_00159_11235_0027.N1	24-APR-2004 00:34:24	Dark	44.500	148	Alp Tuc	2.8780	4100.0	89	11235	No
GOM_TRA_1PNPDE20040424_003650_000000472026_00160_11236_0028.N1	24-APR-2004 00:36:50	Dark	46.500	45	Alp Pav	1.9400	26000.	93	11236	No
GOM_TRA_1PNPDE20040424_004057_000000742026_00160_11236_0029.N1	24-APR-2004 00:40:57	Dark	74.000	103	38Zet Sgr	2.6000	9700.0	148	11236	No
GOM_TRA_1PNPDE20040424_004350_000000422026_00160_11236_0030.N1	24-APR-2004 00:43:50	Dark	42.000	43	Alp TrA	1.9100	4250.0	84	11236	No
GOM_TRA_1PNPDE20040424_004544_000000622026_00160_11236_0031.N1	24-APR-2004 00:45:44	Dark	62.000	40	The Sco	1.8590	7100.0	124	11236	No
GOM_TRA_1PNPDE20040424_004812_000000502026_00160_11236_0032.N1	24-APR-2004 00:48:12	Dark	50.000	4	Alp1Cen	-0.010000	5800.0	100	11236	No
GOM_TRA_1PNPDE20040424_005002_000000432026_00160_11236_0033.N1	24-APR-2004 00:50:02	Dark	42.500	20	Bet Cru	1.2530	30000.	85	11236	No
GOM_TRA_1PNPDE20040424_005132_000000442026_00160_11236_0034.N1	24-APR-2004 00:51:32	Dark	44.000	78	Alp Lup	2.3040	28000.	88	11236	No
GOM_TRA_1PNPDE20040424_005302_000000412026_00160_11236_0035.N1	24-APR-2004 00:53:02	Dark	40.500	64	Gam Cen	2.2000	10600.	81	11236	No
GOM_TRA_1PNPDE20040424_005737_000000702026_00160_11236_0000.N1	24-APR-2004 00:57:37	Dark	69.500	80	7Del Sco	2.3160	30000.	139	11236	No
GOM_TRA_1PNPDE20040424_005942_000000462026_00160_11236_0001.N1	24-APR-2004 00:59:42	Dark	45.500	169	46Gam Hya	2.9910	4700.0	91	11236	No
GOM_TRA_1PNPDE20040424_010106_000000532026_00160_11236_0002.N1	24-APR-2004 01:01:06	Bright	53.000	122	9Alp2Lib	2.7470	9700.0	106	11236	No
GOM_TRA_1PNPDE20040424_010346_000000552026_00160_11236_0003.N1	24-APR-2004 01:03:46	Bright	54.500	104	27Bet Lib	2.6140	13100.	109	11236	No
GOM_TRA_1PNPDE20040424_010609_000000412026_00160_11236_0004.N1	24-APR-2004 01:06:09	Bright	41.000	121	29Gam Vir	2.7400	7200.0	82	11236	No
GOM_TRA_1PNPDE20040424_010941_000000392026_00160_11236_0005.N1	24-APR-2004 01:09:41	Bright	38.500	138	47Eps Vir	2.8280	4700.0	77	11236	No
GOM_TRA_1PNPDE20040424_011106_000000382026_00160_11236_0006.N1	24-APR-2004 01:11:06	Bright	38.000	62	94Bet Leo	2.1360	9700.0	76	11236	No
GOM_TRA_1PNPDE20040424_011318_000000372026_00160_11236_0007.N1	24-APR-2004 01:13:18	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	11236	No
GOM_TRA_1PNPDE20040424_011734_000000382026_00160_11236_0008.N1	24-APR-2004 01:17:34	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11236	No
GOM_TRA_1PNPDE20040424_011944_000000412026_00160_11236_0009.N1	24-APR-2004 01:19:44	Bright	41.000	174	52Psi UMa	3.0040	4400.0	82	11236	No
GOM_TRA_1PNPDE20040424_012125_000000432026_00160_11236_0010.N1	24-APR-2004 01:21:25	Bright	42.500	39	85Eta UMa	1.8540	24000.	85	11236	No
GOM_TRA_1PNPDE20040424_012301_000000382026_00160_11236_0011.N1	24-APR-2004 01:23:01	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	11236	No
GOM_TRA_1PNPDE20040424_012424_000000402026_00160_11236_0012.N1	24-APR-2004 01:24:24	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	11236	No
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GOM_TRA_1PNPDE20040424_013448_000000652026_00160_11236_0015.N1	24-APR-2004 01:34:48	Bright	64.500	69	33Gam Dra	2.2310	3800.0	129	11236	No
GOM_TRA_1PNPDE20040424_013902_000000412026_00160_11236_0016.N1	24-APR-2004 01:39:02	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	11236	No
GOM_TRA_1PNPDE20040424_014043_000000382026_00160_11236_0017.N1	24-APR-2004 01:40:43	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	11236	No
GOM_TRA_1PNPDE20040424_014330_000001732026_00160_11236_0018.N1	24-APR-2004 01:43:30	Bright	172.50	5	3Alp Lyr	0.033000	11000.	345	11236	No
GOM_TRA_1PNPDE20040424_014915_000000792026_00160_11236_0019.N1	24-APR-2004 01:49:15	Dark	79.000	92	53Eps Cyg	2.5000	4500.0	158	11236	No
GOM_TRA_1PNPDE20040424_015354_000000472026_00160_11236_0020.N1	24-APR-2004 01:53:54	Dark	46.500	90	54Alp Peg	2.4870	11000.	93	11236	No
GOM_TRA_1PNPDE20040424_015732_000000622026_00160_11236_0021.N1	24-APR-2004 01:57:32	Dark	61.500	61	8Eps Peg	2.1000	3900.0	123	11236	No
GOM_TRA_1PNPDE20040424_020000_000000532026_00160_11236_0022.N1	24-APR-2004 02:00:00	Dark	53.000	162	34Alp Aqr	2.9440	5350.0	106	11236	No
GOM_TRA_1PNPDE20040424_020309_000000562026_00160_11236_0023.N1	24-APR-2004 02:03:09	Dark	56.000	154	22Bet Aqr	2.8990	5700.0	112	11236	No
GOM_TRA_1PNPDE20040424_020629_000000472026_00160_11236_0024.N1	24-APR-2004 02:06:29	Dark	46.500	18	24Alp PsA	1.1660	9700.0	93	11236	No
GOM_TRA_1PNPDE20040424_021208_000000452026_00160_11236_0025.N1	24-APR-2004 02:12:08	Dark	45.000	31	Alp Gru	1.7340	15200.	90	11236	No
GOM_TRA_1PNPDE20040424_021502_000000422026_00160_11236_0026.N1	24-APR-2004 02:15:02	Dark	41.500	148	Alp Tuc	2.8780	4100.0	83	11236	No
GOM_TRA_1PNPDE20040424_021725_000000442026_00161_11237_0027.N1	24-APR-2004 02:17:25	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11237	No
GOM_TRA_1PNPDE20040424_022135_000000742026_00161_11237_0028.N1	24-APR-2004 02:21:35	Dark	73.500	103	38Zet Sgr	2.6000	9700.0	147	11237	No
GOM_TRA_1PNPDE20040424_022426_000000422026_00161_11237_0029.N1	24-APR-2004 02:24:26	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	11237	No
GOM_TRA_1PNPDE20040424_022623_000000632026_00161_11237_0030.N1	24-APR-2004 02:26:23	Dark	63.000	40	The Sco	1.8590	7100.0	126	11237	No
GOM_TRA_1PNPDE20040424_022847_000000472026_00161_11237_0031.N1	24-APR-2004 02:28:47	Dark	47.000	4	Alp1Cen	-0.010000	5800.0	94	11237	No

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



4. Overview of dark signal processing per product

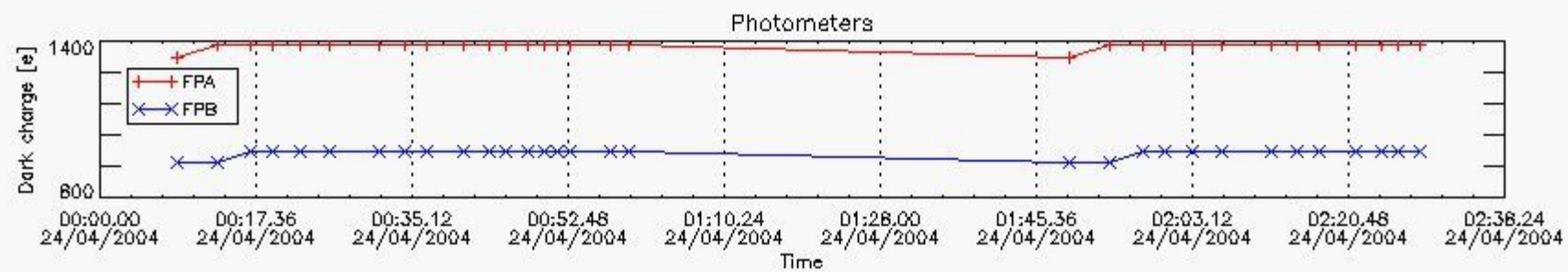
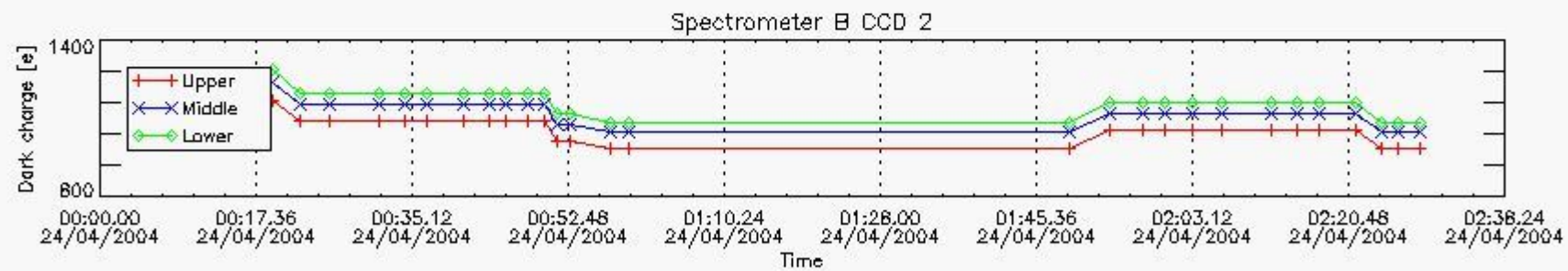
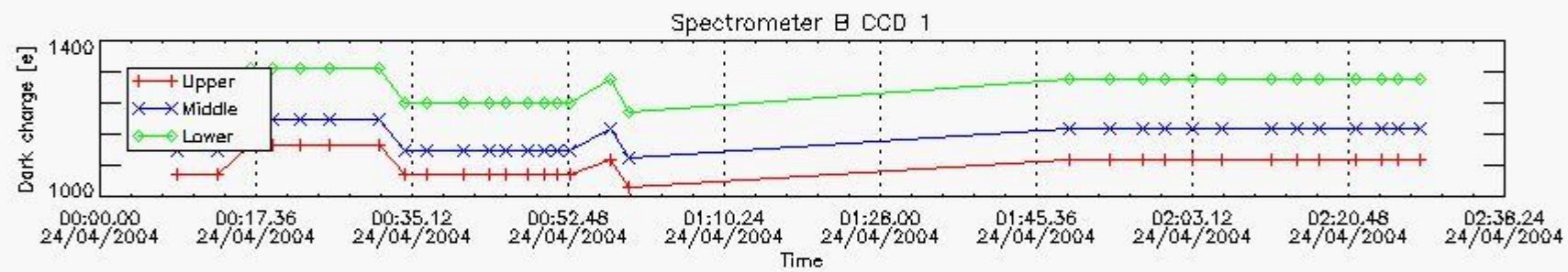
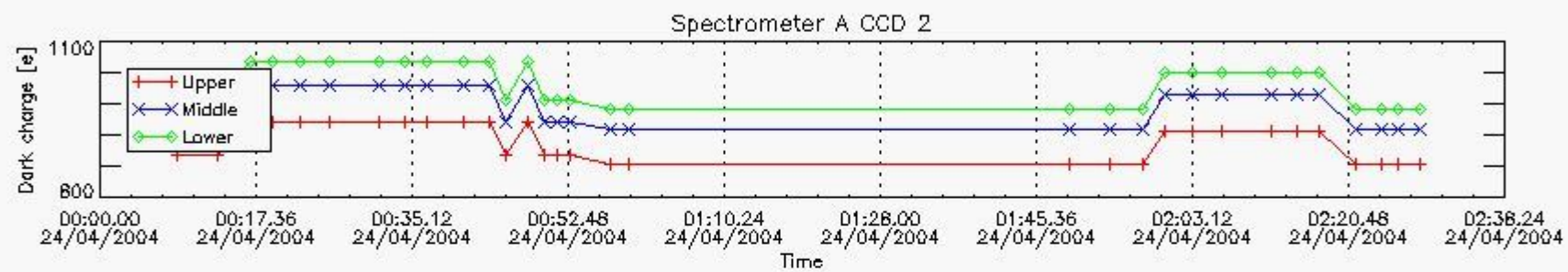
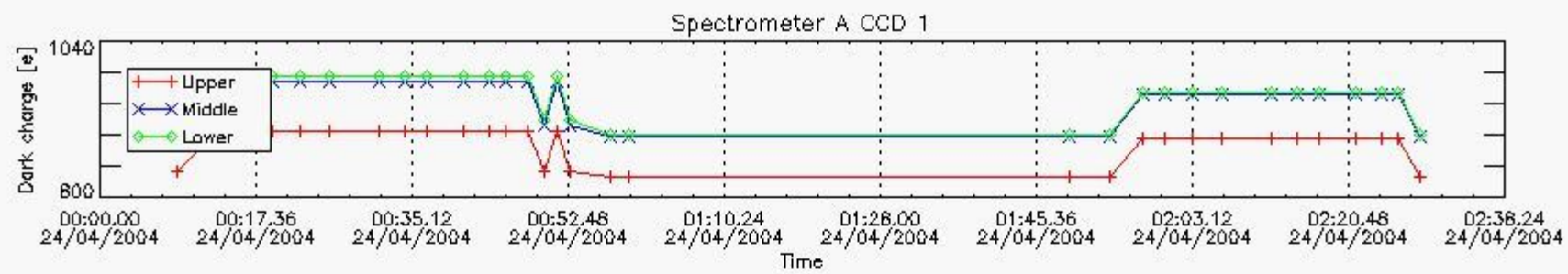
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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

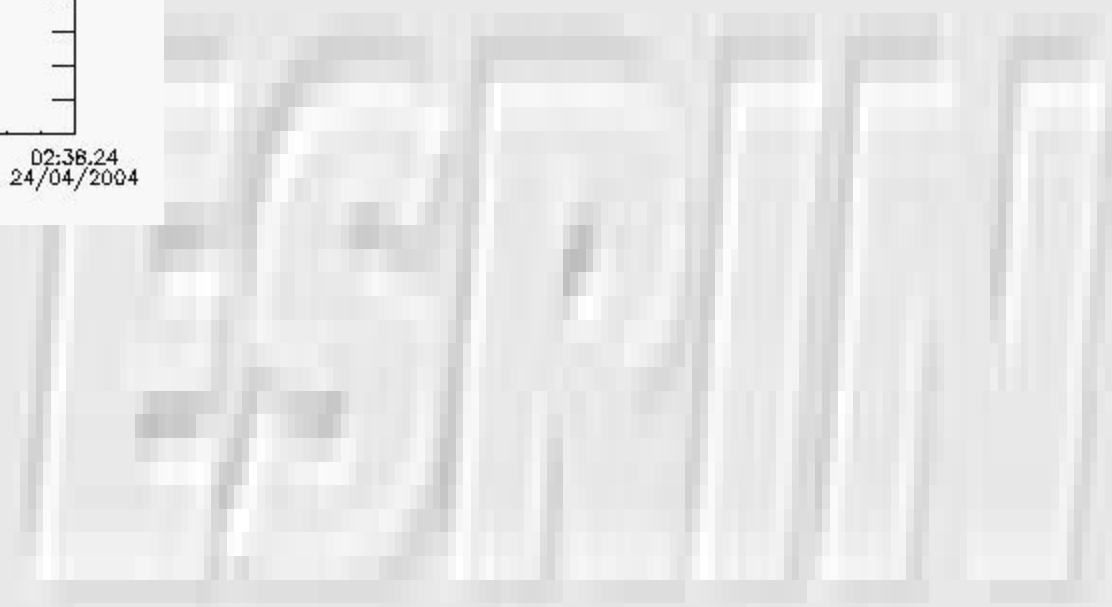




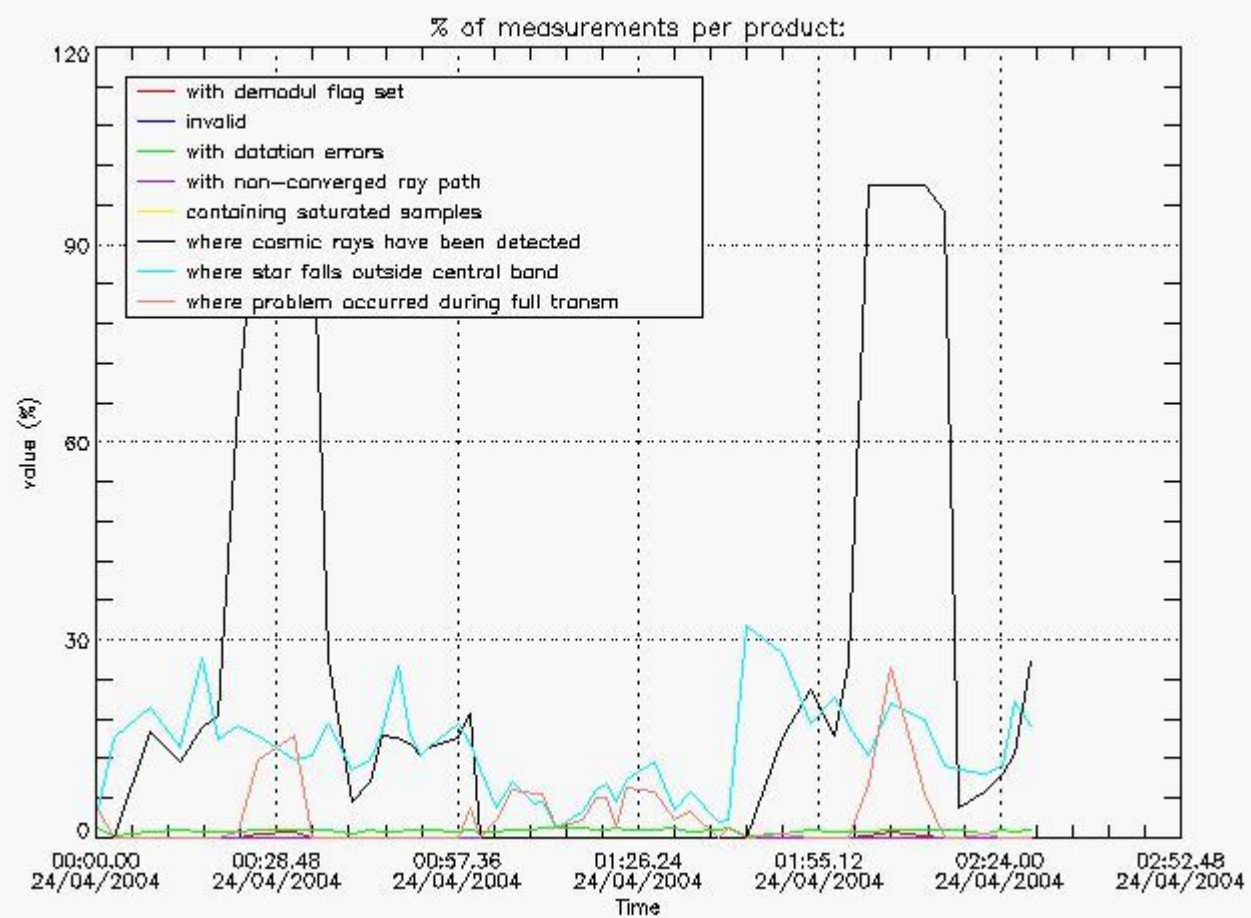
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.0000 %
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



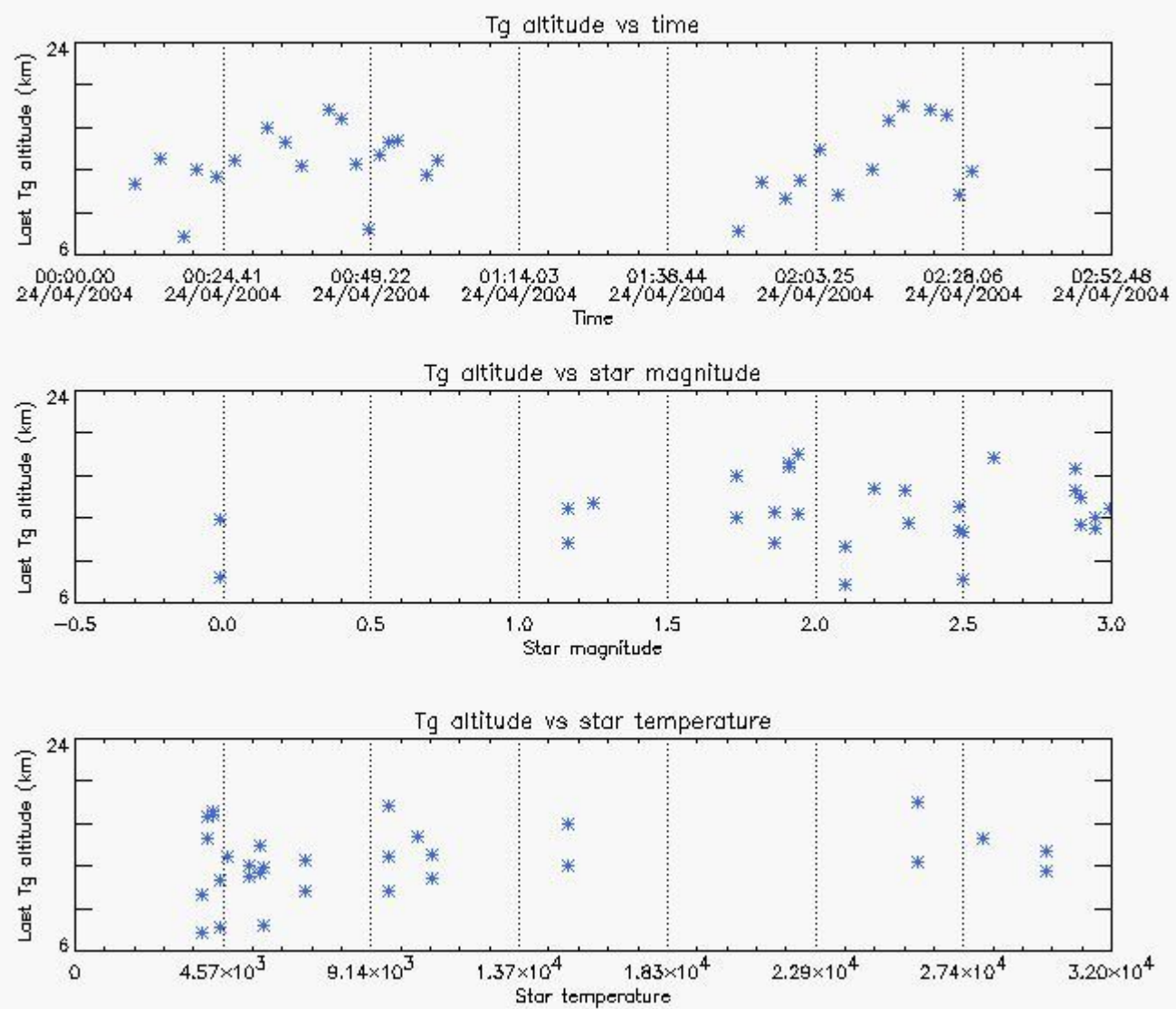
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.806	20.202
St. deviation:	2.9928	4.2638
Maximum:	18.599	25.788
Minimum:	7.5842	6.9853
Number of data:	31.000	19.000

6.2 Plot for DARK limb products

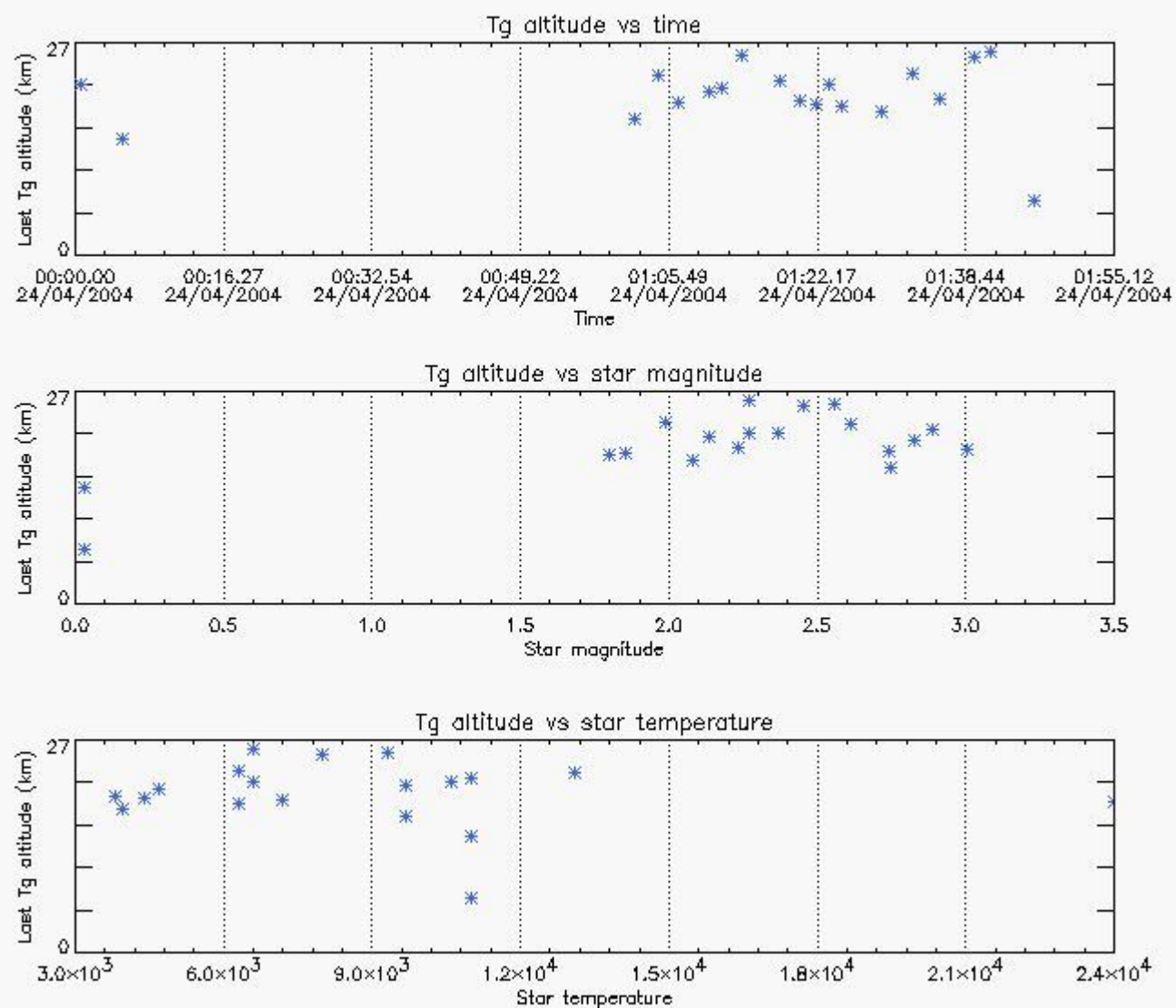
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



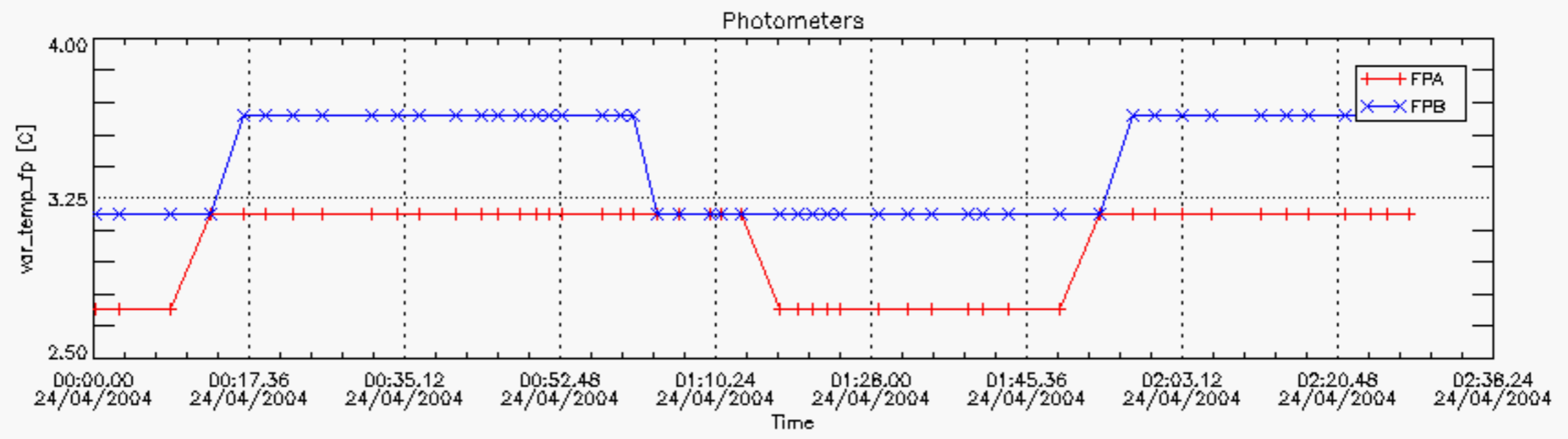
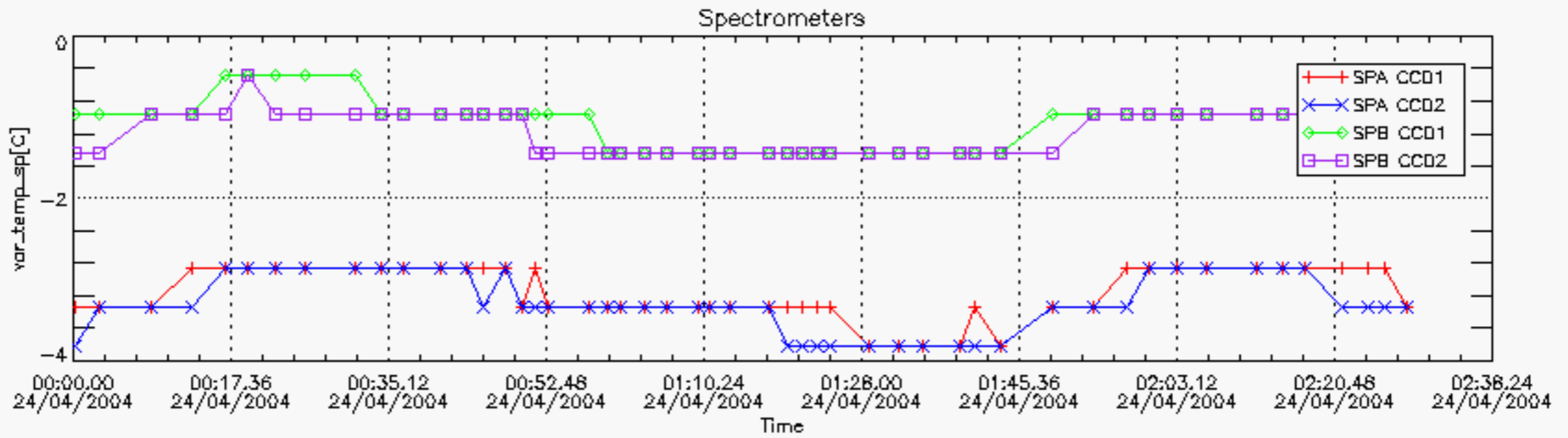
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

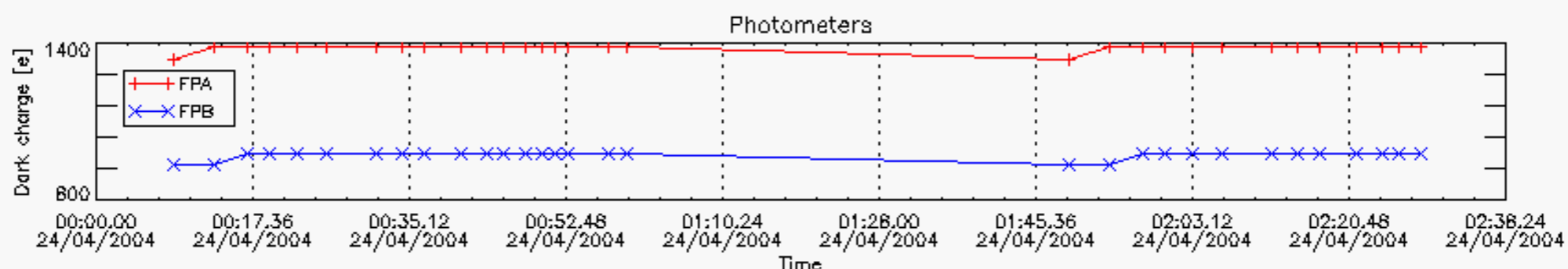
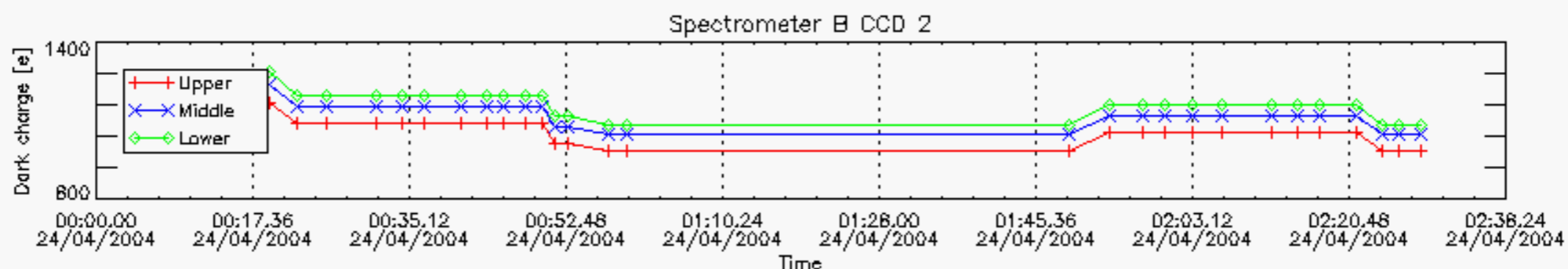
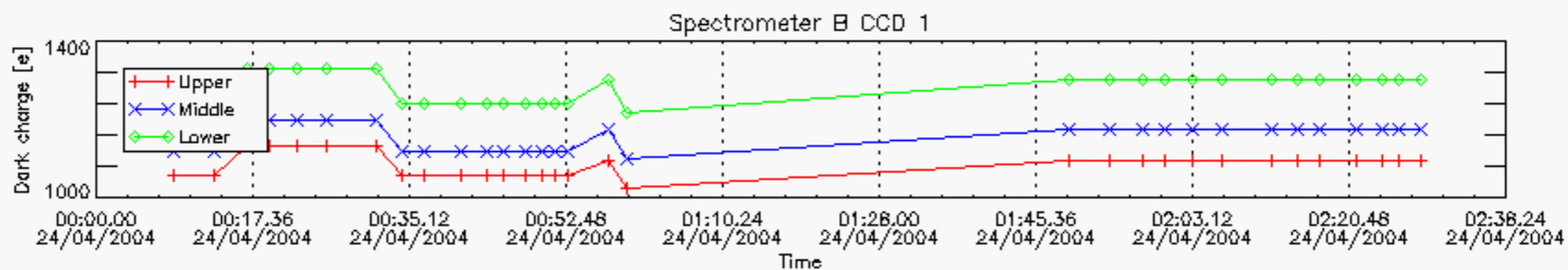
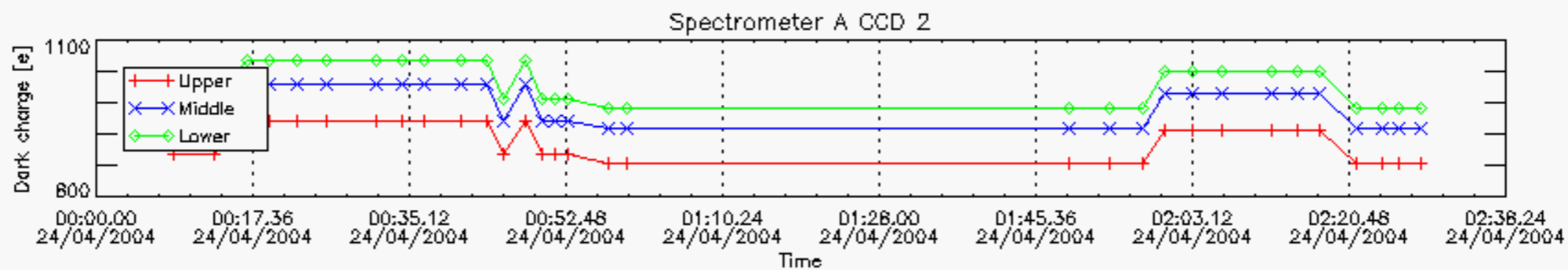
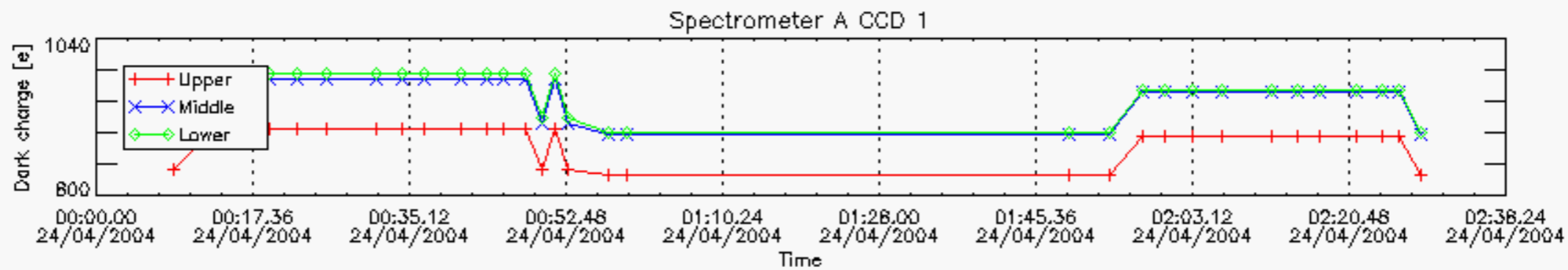
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.5	1447.5	1461.3	1447.4
St. deviation:	4.9114	5.7656	7.3340	7.8678
Maximum:	1612.0	1664.0	1508.0	1492.0
Minimum:	1453.0	1439.0	1449.0	1428.0
Number of data:	40750.	40750.	25700.	25700.

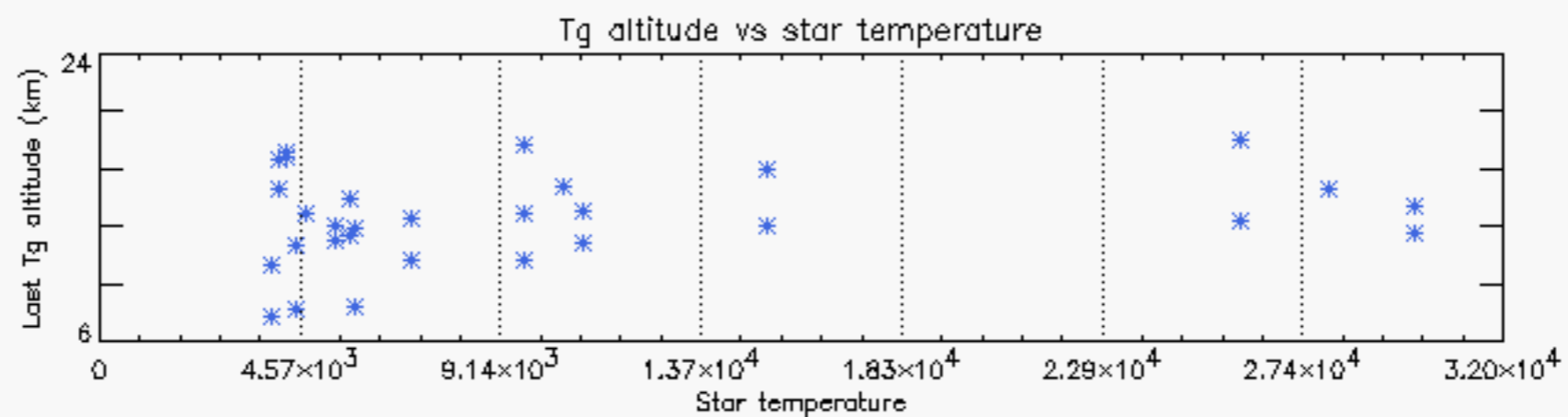
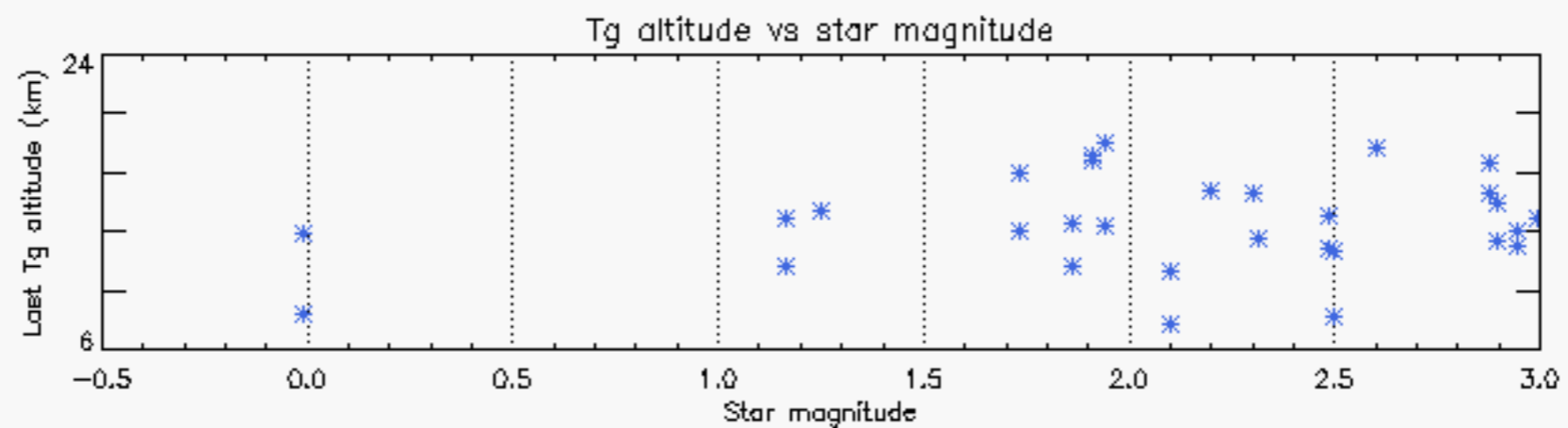
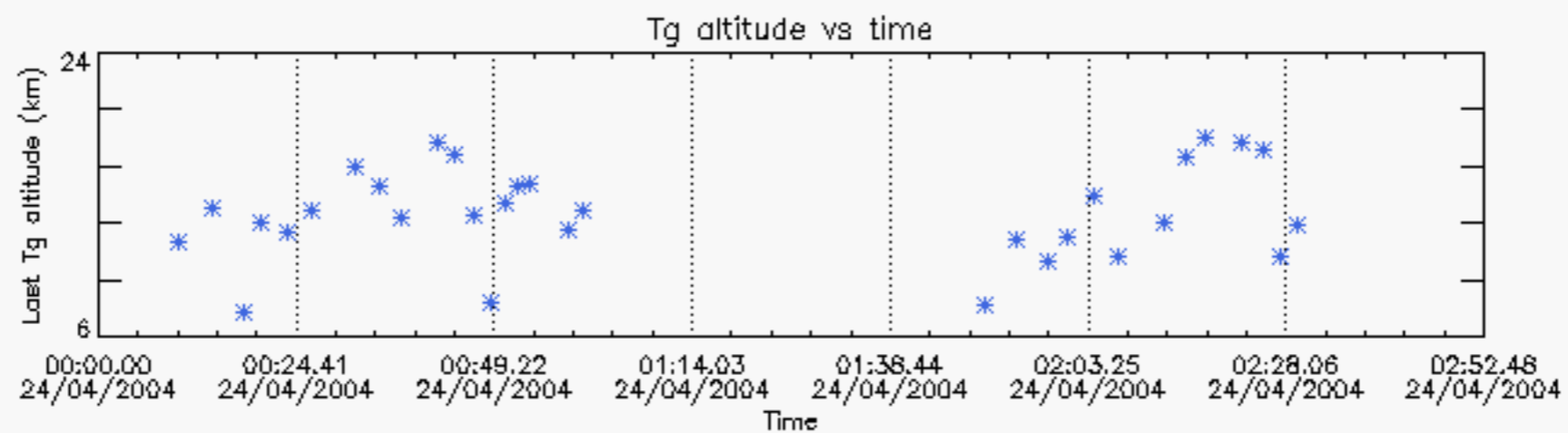




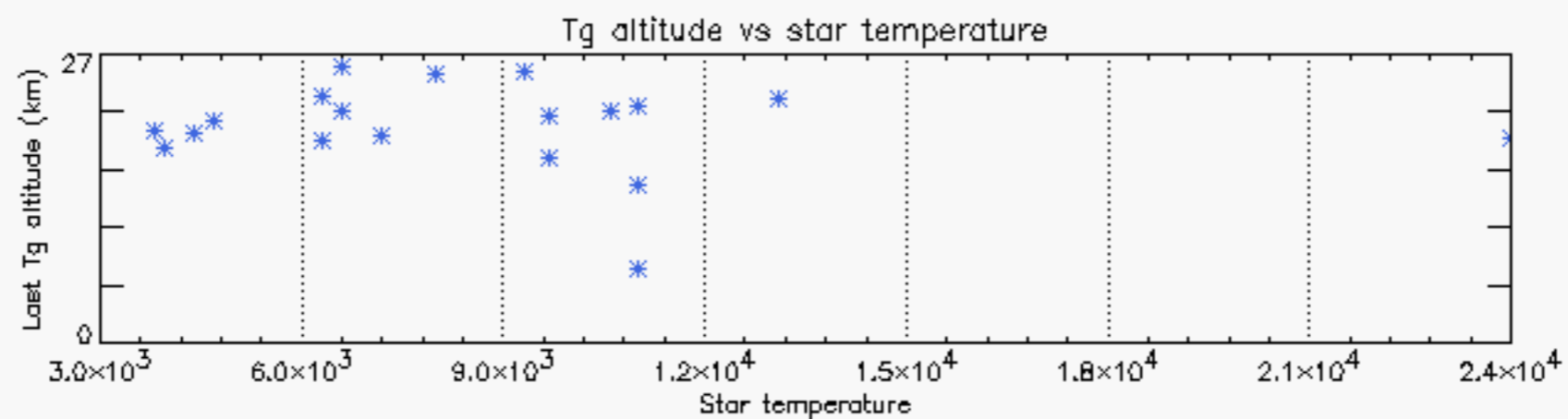
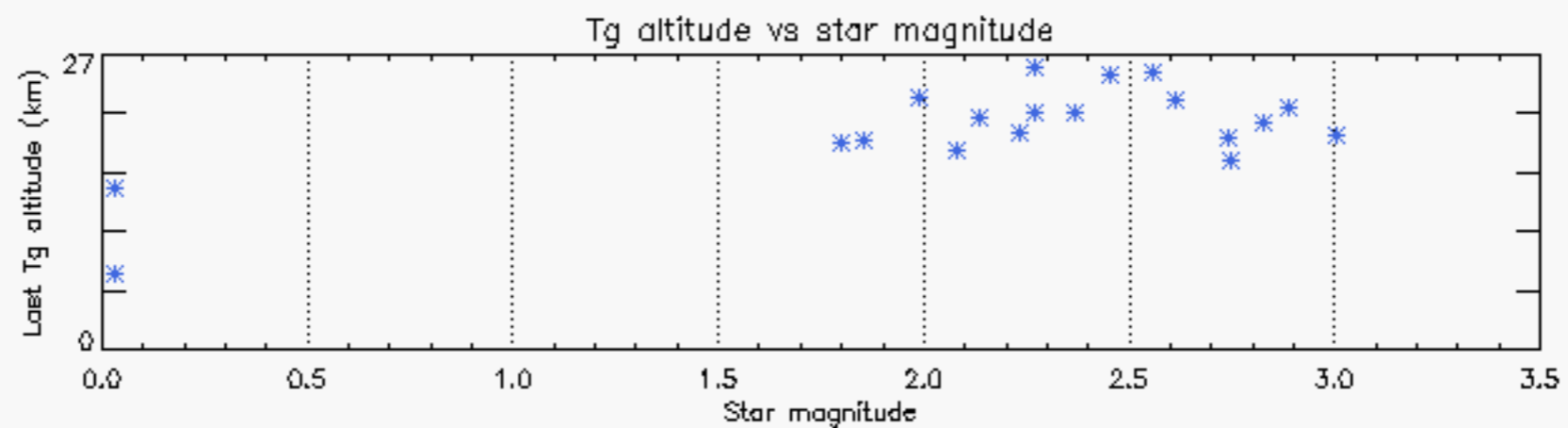
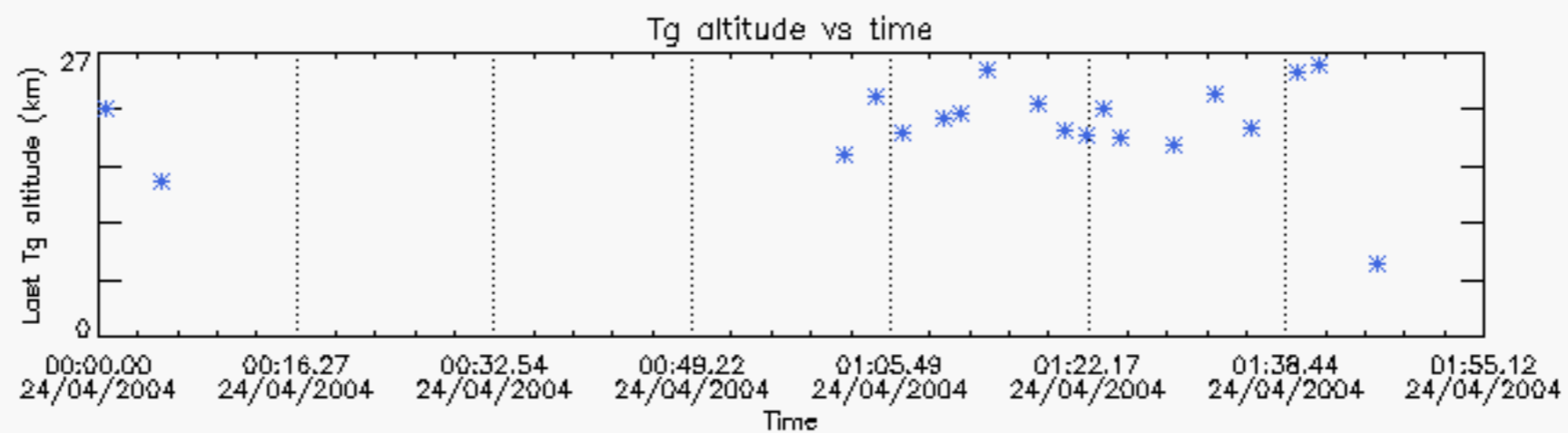




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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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
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3;	-4155.5;	01-APR-2004	04:50:23;	Bright;		45.0;	121;	29Gam Vir	;	2.74;	7200;occ;	90;	0;	10909
4;	-3877.0;	01-APR-2004	04:55:02;	Bright;		38.5;	62;	94Bet Leo	;	2.14;	9700;occ;	77;	0;	10909
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7;	-3562.4;	01-APR-2004	05:00:16;	Bright;		67.5;	111;	8Eta Boo	;	2.68;	6000;occ;	135;	0;	10909
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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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 25; 73.3; 01-APR-2004 07:41:28; Dark ; 63.0; 116; 19Del Sgr ; 2.70; 4100;occ; 126; 0;10911
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 27; 408.0; 01-APR-2004 07:47:03; Dark ; 44.0; 43; Alp TrA ; 1.91; 4250;occ; 88; 0;10911
 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
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 32; 1016.7; 01-APR-2004 07:57:12; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;10911
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 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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 27; 520.4; 01-APR-2004 09:29:31; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;10912
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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
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19; -777.1; 01-APR-2004 10:48:29; Dark ; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 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
23; -42.2; 01-APR-2004 11:00:44; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;10912
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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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29; 813.2; 01-APR-2004 11:15:00; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;10913
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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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8;-3373.3; 02-APR-2004 01:10:36; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;10921
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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12	-2174.7	21-APR-2004 09:56:26	Bright	41.5	89	5Alp Cep	2.45	8000	occ	83	0	11198
13	-2083.0	21-APR-2004 09:57:58	Bright	37.5	74	11Bet Cas	2.27	6600	occ	75	0	11198
14	-1874.0	21-APR-2004 10:01:27	Bright	141.5	5	3Alp Lyr	0.03	11000	occ	283	0	11198
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24	300.9	21-APR-2004 10:37:41	Dark	69.0	103	38Zet Sgr	2.60	9700	occ	138	0	11199
25	497.8	21-APR-2004 10:40:58	Dark	83.0	38	20Eps Sgr	1.84	11000	occ	166	0	11199
26	619.8	21-APR-2004 10:43:00	Dark	55.5	40	The Sco	1.86	7100	occ	111	0	11199
27	792.1	21-APR-2004 10:45:53	Dark	53.0	4	Alp1Cen	-0.01	5800	occ	106	0	11199
28	906.5	21-APR-2004 10:47:47	Dark	43.5	20	Bet Cru	1.25	30000	occ	87	0	11199
29	988.9	21-APR-2004 10:49:09	Dark	41.5	78	Alp Lup	2.30	28000	occ	83	0	11199
30	1084.9	21-APR-2004 10:50:45	Dark	40.5	64	Gam Cen	2.20	10600	occ	81	0	11199
31	1351.3	21-APR-2004 10:55:12	Dark	74.0	80	7Del Sco	2.32	30000	occ	148	0	11199
32	1511.9	21-APR-2004 10:57:52	Dark	42.0	106	9Bet Crv	2.65	5600	occ	84	0	11199
33	1697.1	21-APR-2004 11:00:58	Bright	15.0	15	67Alp Vir	0.98	28000	occ	30	0	11199
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2	-4338.6	21-APR-2004 14:22:10	Bright	43.0	15	67Alp Vir	0.98	28000	occ	86	0	11201
3	-4156.8	21-APR-2004 14:25:11	Bright	38.0	121	29Gam Vir	2.74	7200	occ	76	0	11201
4	-3943.1	21-APR-2004 14:28:45	Bright	38.5	138	47Eps Vir	2.83	4700	occ	77	0	11201
5	-3770.6	21-APR-2004 14:31:38	Bright	43.5	111	8Eta Boo	2.68	6000	occ	87	0	11201
6	-3466.9	21-APR-2004 14:36:41	Bright	37.5	152	12Alp2CVn	2.89	11000	occ	75	0	11201
7	-3347.2	21-APR-2004 14:38:41	Bright	39.0	174	52Psi UMa	3.00	4400	occ	78	0	11201
8	-3217.3	21-APR-2004 14:40:51	Bright	38.0	87	64Gam UMa	2.43	11000	occ	76	0	11201
9	-3066.5	21-APR-2004 14:43:22	Bright	38.0	36	50Alp UMa	1.80	6300	occ	76	0	11201
10	-2788.2	21-APR-2004 14:48:00	Bright	38.0	60	7Bet UMi	2.08	3950	occ	76	0	11201
11	-2593.8	21-APR-2004 14:51:15	Bright	36.0	49	1Alp UMi	1.99	6300	occ	72	0	11201
12	-2399.7	21-APR-2004 14:54:29	Bright	65.5	69	33Gam Dra	2.23	3800	occ	131	0	11201
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14	-2082.3	21-APR-2004 14:59:46	Bright	36.5	74	11Bet Cas	2.27	6600	occ	73	0	11201
15	-1876.9	21-APR-2004 15:03:11	Bright	148.0	5	3Alp Lyr	0.03	11000	occ	296	0	11201
16	-1575.5	21-APR-2004 15:08:13	Dark	69.0	92	53Eps Cyg	2.50	4500	occ	138	0	11201
17	-1299.8	21-APR-2004 15:12:49	Dark	43.5	90	54Alp Peg	2.49	11000	occ	87	0	11201
18	-1093.6	21-APR-2004 15:16:15	Dark	56.0	61	8Eps Peg	2.10	3900	occ	112	0	11201
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21	-548.6	21-APR-2004 15:25:20	Dark	46.5	18	24Alp PsA	1.17	9700	occ	93	0	11201
22	-290.0	21-APR-2004 15:29:38	Dark	59.5	0		0.00	0	occ	119	0	11201
23	99.6	21-APR-2004 15:36:08	Dark	42.0	45	Alp Pav	1.94	26000	occ	84	0	11202
24	306.8	21-APR-2004 15:39:35	Dark	68.0	103	38Zet Sgr	2.60	9700	occ	136	0	11202
25	503.0	21-APR-2004 15:42:51	Dark	67.0	38	20Eps Sgr	1.84	11000	occ	134	0	11202
26	622.0	21-APR-2004 15:44:50	Dark	64.5	40	The Sco	1.86	7100	occ	129	0	11202
27	792.5	21-APR-2004 15:47:41	Dark	52.5	4	Alp1Cen	-0.01	5800	occ	105	0	11202
28	907.5	21-APR-2004 15:49:36	Dark	38.5	20	Bet Cru	1.25	30000	occ	77	0	11202
29	1048.9	21-APR-2004 15:51:57	Dark	40.5	95	Zet Cen	2.55	26000	occ	81	0	11202
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2	-4682.6	21-APR-2004 17:37:38	Dark	75.5	80	7Del Sco	2.32	30000	occ	151	0	11203
3	-4524.0	21-APR-2004 17:40:16	Dark	45.5	106	9Bet Crv	2.65	5600	occ	91	0	11203
4	-4338.5	21-APR-2004 17:43:22	Bright	41.0	15	67Alp Vir	0.98	28000	occ	82	0	11203
5	-4156.8	21-APR-2004 17:46:24	Bright	38.0	121	29Gam Vir	2.74	7200	occ	76	0	11203
6	-3943.3	21-APR-2004 17:49:57	Bright	38.5	138	47Eps Vir	2.83	4700	occ	77	0	11203
7	-3771.4	21-APR-2004 17:52:49	Bright	44.5	111	8Eta Boo	2.68	6000	occ	89	0	11203
8	-3467.3	21-APR-2004 17:57:53	Bright	39.5	152	12Alp2CVn	2.89	11000	occ	79	0	11203
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