

GOMOS Daily Report 25-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 15:23:06
Data source version	GOMOS/4.02
Start time of products	25-APR-2004 (25APR2004 00:00:00)
Stop time of products	26-APR-2004 (26APR2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	48
Nb of prods with errors	1

2. Summary of products arrived in PCF

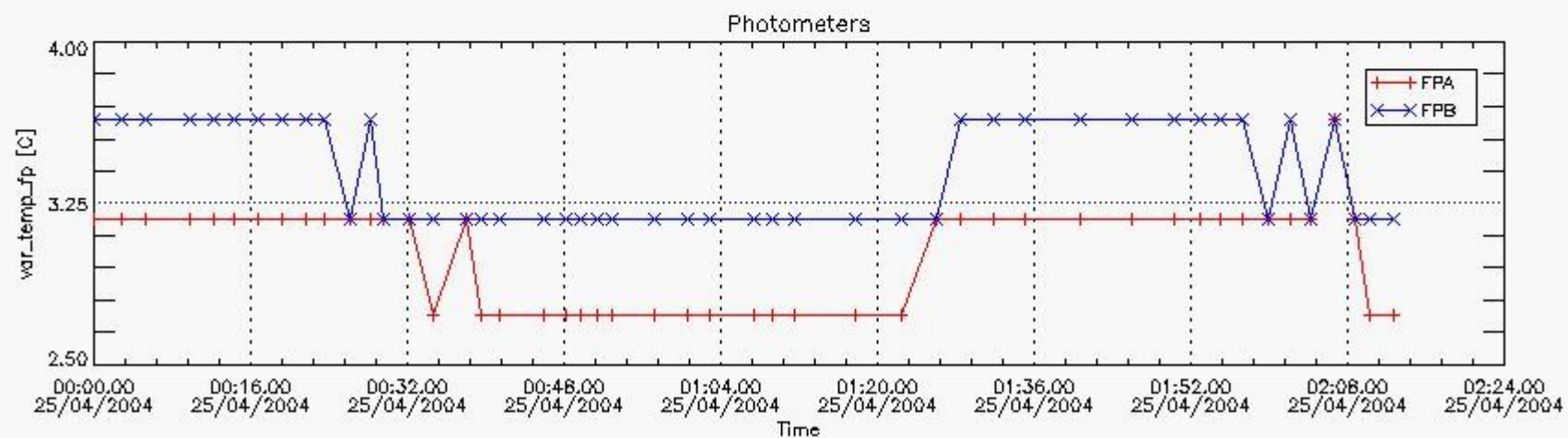
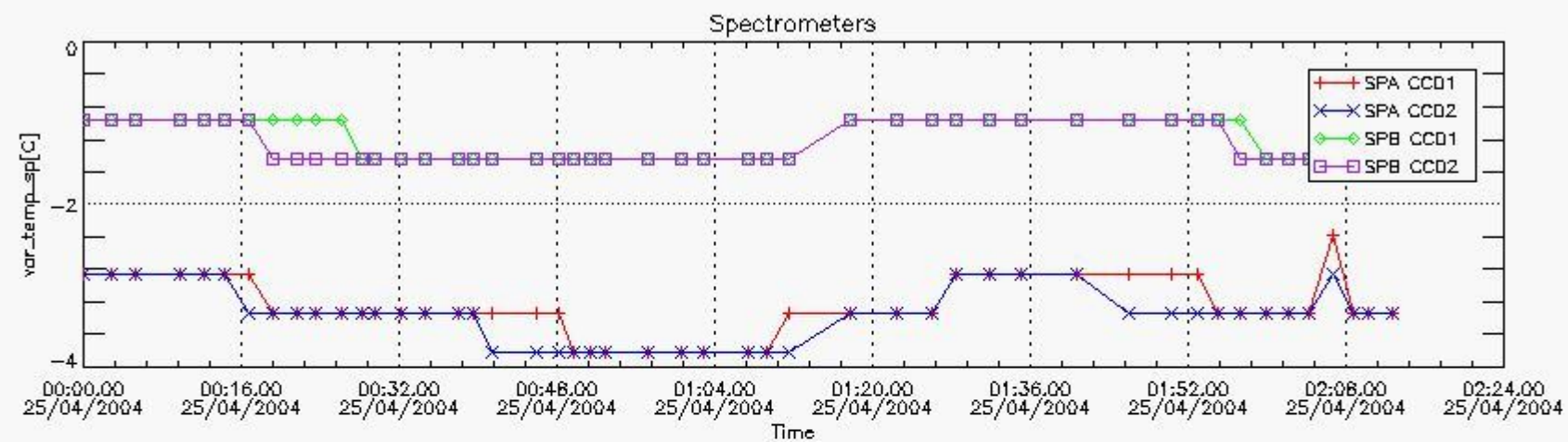
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040425_000002_000000432026_00173_11249_0026.N1	25-APR-2004 00:00:02	Dark	42.500	31	Alp Gru	1.7340	15200.	85	11249	No
GOM_TRA_1PNPDE20040425_000253_000000432026_00173_11249_0027.N1	25-APR-2004 00:02:53	Dark	42.500	148	Alp Tuc	2.8780	4100.0	85	11249	No
GOM_TRA_1PNPDE20040425_000521_000000442026_00174_11250_0028.N1	25-APR-2004 00:05:21	Dark	44.000	45	Alp Pav	1.9400	26000.	88	11250	No
GOM_TRA_1PNPDE20040425_000945_000000732026_00174_11250_0029.N1	25-APR-2004 00:09:45	Dark	72.500	103	38Zet Sgr	2.6000	9700.0	145	11250	No
GOM_TRA_1PNPDE20040425_001216_000000452026_00174_11250_0030.N1	25-APR-2004 00:12:16	Dark	45.000	43	Alp TrA	1.9100	4250.0	90	11250	No
GOM_TRA_1PNPDE20040425_001422_000000562026_00174_11250_0031.N1	25-APR-2004 00:14:22	Dark	56.000	40	The Sco	1.8590	7100.0	112	11250	No
GOM_TRA_1PNPDE20040425_001640_000000532026_00174_11250_0032.N1	25-APR-2004 00:16:40	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	11250	No
GOM_TRA_1PNPDE20040425_001917_000000442026_00174_11250_0033.N1	25-APR-2004 00:19:17	Dark	43.500	26	Gam Cru	1.6240	2900.0	87	11250	No
GOM_TRA_1PNPDE20040425_002134_000000442026_00174_11250_0034.N1	25-APR-2004 00:21:34	Dark	43.500	81	Eta Cen	2.3560	28000.	87	11250	No
GOM_TRA_1PNPDE20040425_002332_000000872026_00174_11250_0035.N1	25-APR-2004 00:23:32	Dark	87.000	16	21Alp Sco	1.0200	3000.0	174	11250	No
GOM_TRA_1PNPDE20040425_002604_000000652026_00174_11250_0000.N1	25-APR-2004 00:26:04	Dark	64.500	80	7Del Sco	2.3160	30000.	129	11250	No
GOM_TRA_1PNPDE20040425_002810_000000442026_00174_11250_0001.N1	25-APR-2004 00:28:10	Dark	44.000	169	46Gam Hya	2.9910	4700.0	88	11250	No
GOM_TRA_1PNPDE20040425_002933_000000492026_00174_11250_0002.N1	25-APR-2004 00:29:33	Bright	49.000	122	9Alp2Lib	2.7470	9700.0	98	11250	No
GOM_TRA_1PNPDE20040425_003207_000000532026_00174_11250_0003.N1	25-APR-2004 00:32:07	Bright	52.500	104	27Bet Lib	2.6140	13100.	105	11250	No
GOM_TRA_1PNPDE20040425_003436_000000392026_00174_11250_0004.N1	25-APR-2004 00:34:36	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	11250	No
GOM_TRA_1PNPDE20040425_003804_000000382026_00174_11250_0005.N1	25-APR-2004 00:38:04	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	11250	No
GOM_TRA_1PNPDE20040425_003932_000000382026_00174_11250_0006.N1	25-APR-2004 00:39:32	Bright	38.000	62	94Bet Leo	2.1360	9700.0	76	11250	No
GOM_TRA_1PNPDE20040425_004124_000000482026_00174_11250_0007.N1	25-APR-2004 00:41:24	Bright	47.500	3	16Alp Boo	-0.050000	4250.0	95	11250	No
GOM_TRA_1PNPDE20040425_004555_000000382026_00174_11250_0008.N1	25-APR-2004 00:45:55	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11250	No
GOM_TRA_1PNPDE20040425_004814_000000402026_00174_11250_0009.N1	25-APR-2004 00:48:14	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	11250	No
GOM_TRA_1PNPDE20040425_004944_000000402026_00174_11250_0010.N1	25-APR-2004 00:49:44	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	11250	No
GOM_TRA_1PNPDE20040425_005128_000000372026_00174_11250_0011.N1	25-APR-2004 00:51:28	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	11250	No
GOM_TRA_1PNPDE20040425_005250_000000392026_00174_11250_0012.N1	25-APR-2004 00:52:50	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	11250	No
GOM_TRA_1PNPDE20040425_005708_000000422026_00174_11250_0013.N1	25-APR-2004 00:57:08	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	11250	No
GOM_TRA_1PNPDE20040425_010035_000000362026_00174_11250_0014.N1	25-APR-2004 01:00:35	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	11250	No
GOM_TRA_1PNPDE20040425_010256_000000652026_00174_11250_0015.N1	25-APR-2004 01:02:56	Bright	65.000	69	33Gam Dra	2.2310	3800.0	130	11250	No
GOM_TRA_1PNPDE20040425_010722_000000422026_00174_11250_0016.N1	25-APR-2004 01:07:22	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	11250	No
GOM_TRA_1PNPDE20040425_010910_000000362026_00174_11250_0017.N1	25-APR-2004 01:09:10	Bright	36.000	74	11Bet Cas	2.2680	6600.0	72	11250	No
GOM_TRA_1PNPDE20040425_011135_000001492026_00174_11250_0018.N1	25-APR-2004 01:11:35	Bright	149.00	5	3Alp Lyr	0.033000	11000.	298	11250	No
GOM_TRA_1PNPDE20040425_011739_000000682026_00174_11250_0019.N1	25-APR-2004 01:17:39	Dark	68.000	92	53Eps Cyg	2.5000	4500.0	136	11250	No
GOM_TRA_1PNPDE20040425_012222_000000462026_00174_11250_0020.N1	25-APR-2004 01:22:22	Dark	45.500	90	54Alp Peg	2.4870	11000.	91	11250	No
GOM_TRA_1PNPDE20040425_012602_000000652026_00174_11250_0021.N1	25-APR-2004 01:26:02	Dark	64.500	61	8Eps Peg	2.1000	3900.0	129	11250	No
GOM_TRA_1PNPDE20040425_012832_000000532026_00174_11250_0022.N1	25-APR-2004 01:28:32	Dark	52.500	162	34Alp Aqr	2.9440	5350.0	105	11250	No
GOM_TRA_1PNPDE20040425_013145_000000582026_00174_11250_0023.N1	25-APR-2004 01:31:45	Dark	57.500	154	22Bet Aqr	2.8990	5700.0	115	11250	No
GOM_TRA_1PNPDE20040425_013458_000000452026_00174_11250_0024.N1	25-APR-2004 01:34:58	Dark	45.000	18	24Alp PsA	1.1660	9700.0	90	11250	No
GOM_TRA_1PNPDE20040425_014038_000000422026_00174_11250_0025.N1	25-APR-2004 01:40:38	Dark	41.500	31	Alp Gru	1.7340	15200.	83	11250	No
GOM_TRA_1PNPDE20040425_014558_000000432026_00175_11251_0026.N1	25-APR-2004 01:45:58	Dark	42.500	45	Alp Pav	1.9400	26000.	85	11251	No
GOM_TRA_1PNPDE20040425_015022_000000722026_00175_11251_0027.N1	25-APR-2004 01:50:22	Dark	72.000	103	38Zet Sgr	2.6000	9700.0	144	11251	No
GOM_TRA_1PNPDE20040425_015254_000000432026_00175_11251_0028.N1	25-APR-2004 01:52:54	Dark	42.500	43	Alp TrA	1.9100	4250.0	85	11251	No
GOM_TRA_1PNPDE20040425_015500_000000602026_00175_11251_0029.N1	25-APR-2004 01:55:00	Dark	60.000	40	The Sco	1.8590	7100.0	120	11251	No
GOM_TRA_1PNPDE20040425_015714_000000532026_00175_11251_0030.N1	25-APR-2004 01:57:14	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	11251	No
GOM_TRA_1PNPDE20040425_015952_000000522026_00175_11251_0031.N1	25-APR-2004 01:59:52	Dark	52.000	26	Gam Cru	1.6240	2900.0	104	11251	No
GOM_TRA_1PNPDE20040425_020210_000000452026_00175_11251_0032.N1	25-APR-2004 02:02:10	Dark	44.500	81	Eta Cen	2.3560	28000.	89	11251	No
GOM_TRA_1PNPDE20040425_020408_000000882026_00175_11251_0033.N1	25-APR-2004 02:04:08	Dark	87.500	16	21Alp Sco	1.0200	3000.0	175	11251	No
GOM_TRA_1PNPDE20040425_020641_000000732026_00175_11251_0000.N1	25-APR-2004 02:06:41	Dark	72.500	80	7Del Sco	2.3160	30000.	145	11251	Yes
GOM_TRA_1PNPDE20040425_020846_000000442026_00175_11251_0001.N1	25-APR-2004 02:08:46	Dark	44.000	169	46Gam Hya	2.9910	4700.0	88	11251	No
GOM_TRA_1PNPDE20040425_021009_000000502026_00175_11251_0002.N1	25-APR-2004 02:10:09	Bright	49.500	122	9Alp2Lib	2.7470	9700.0	99	11251	No
GOM_TRA_1PNPDE20040425_021243_000000552026_00175_11251_0003.N1	25-APR-2004 02:12:43	Bright	54.500	104	27Bet Lib	2.6140	13100.	109	11251	No

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



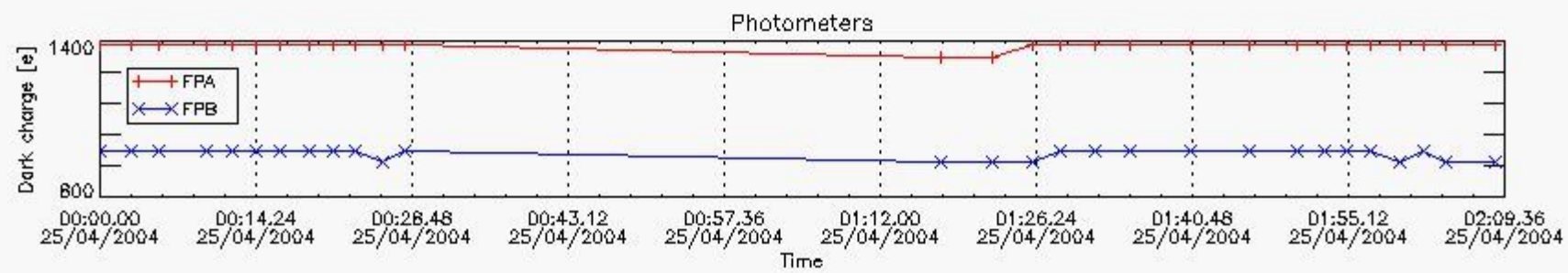
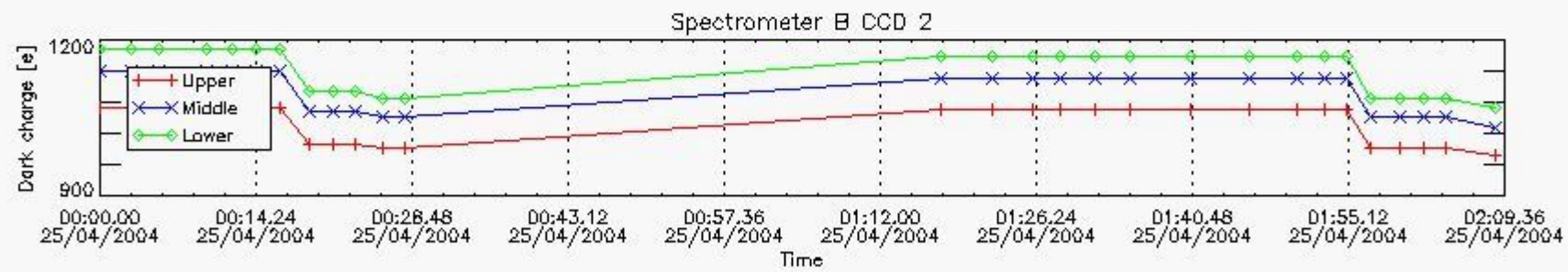
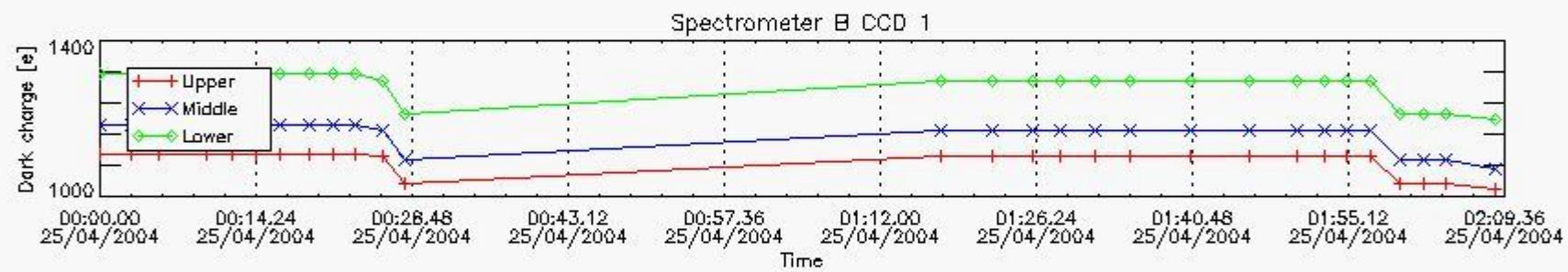
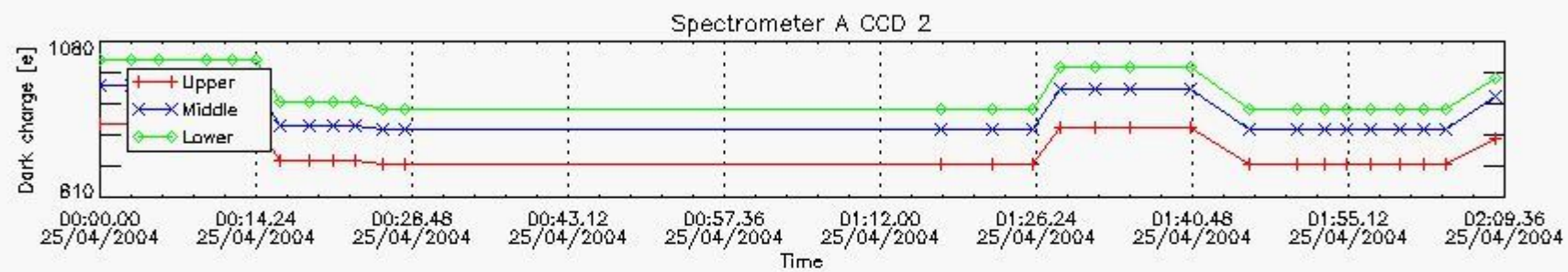
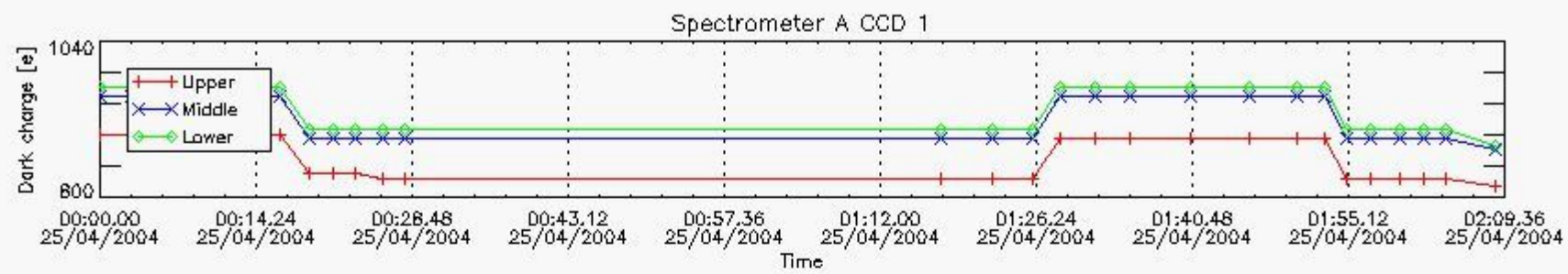
4. Overview of dark signal processing per product

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

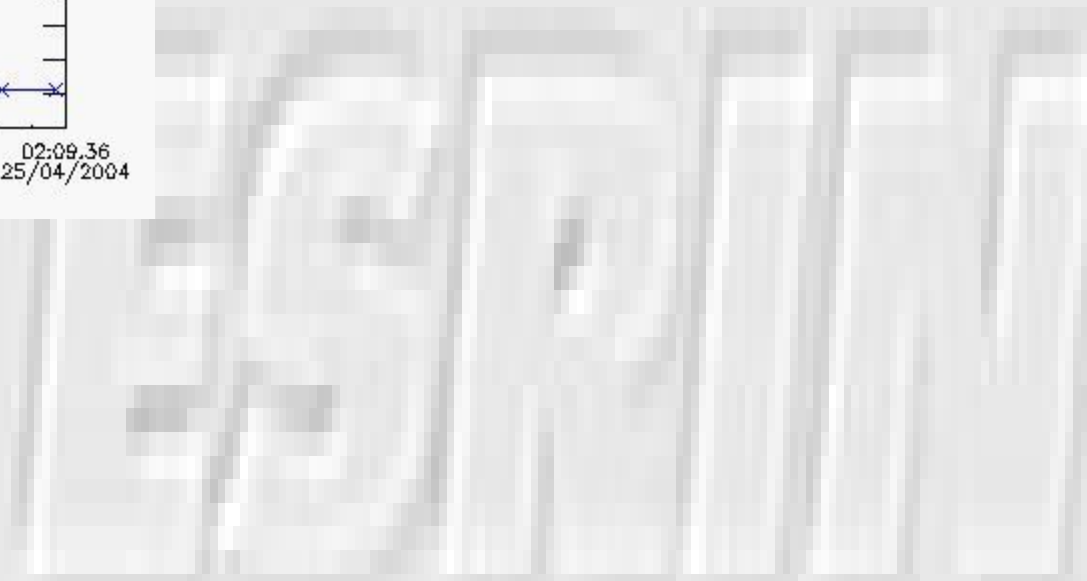
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



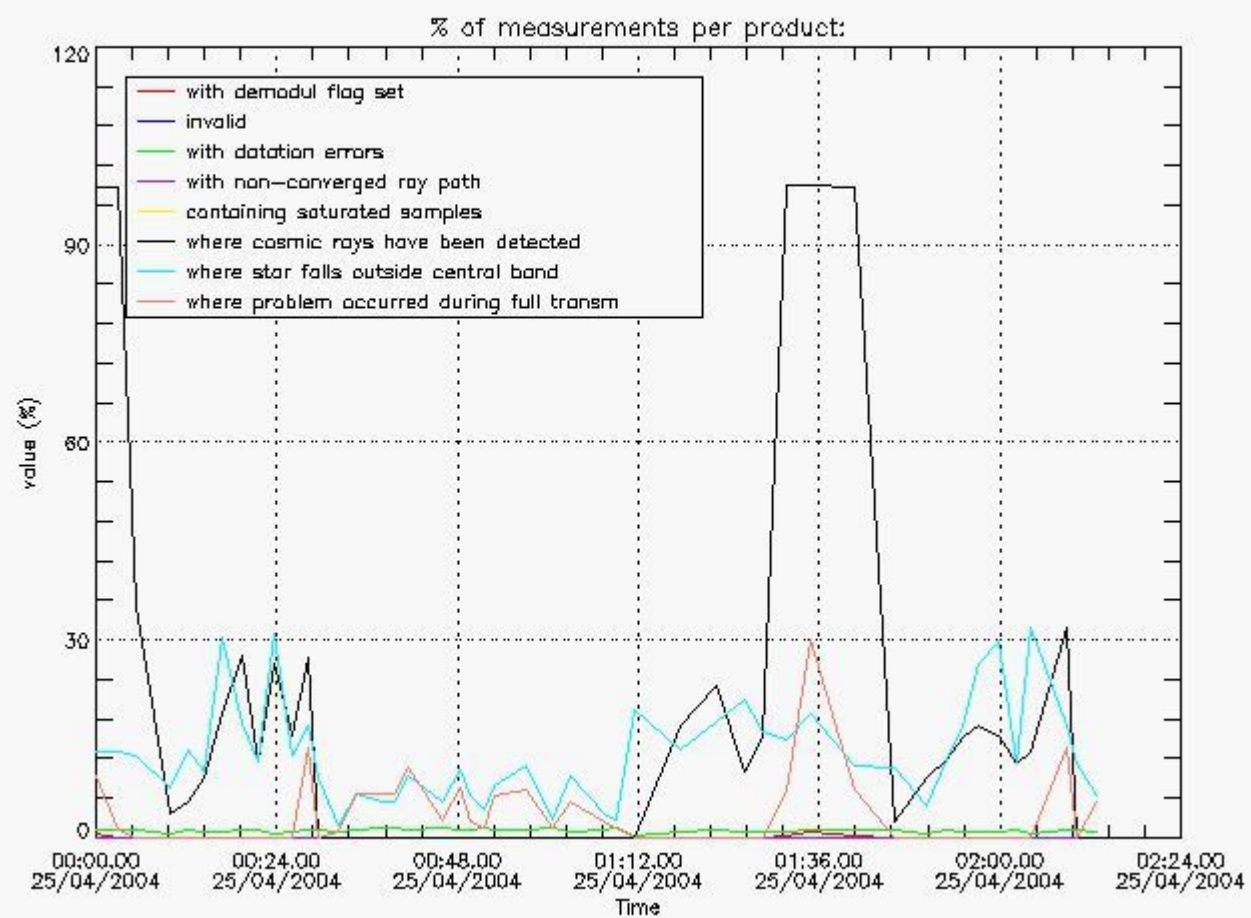
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.7660 %
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



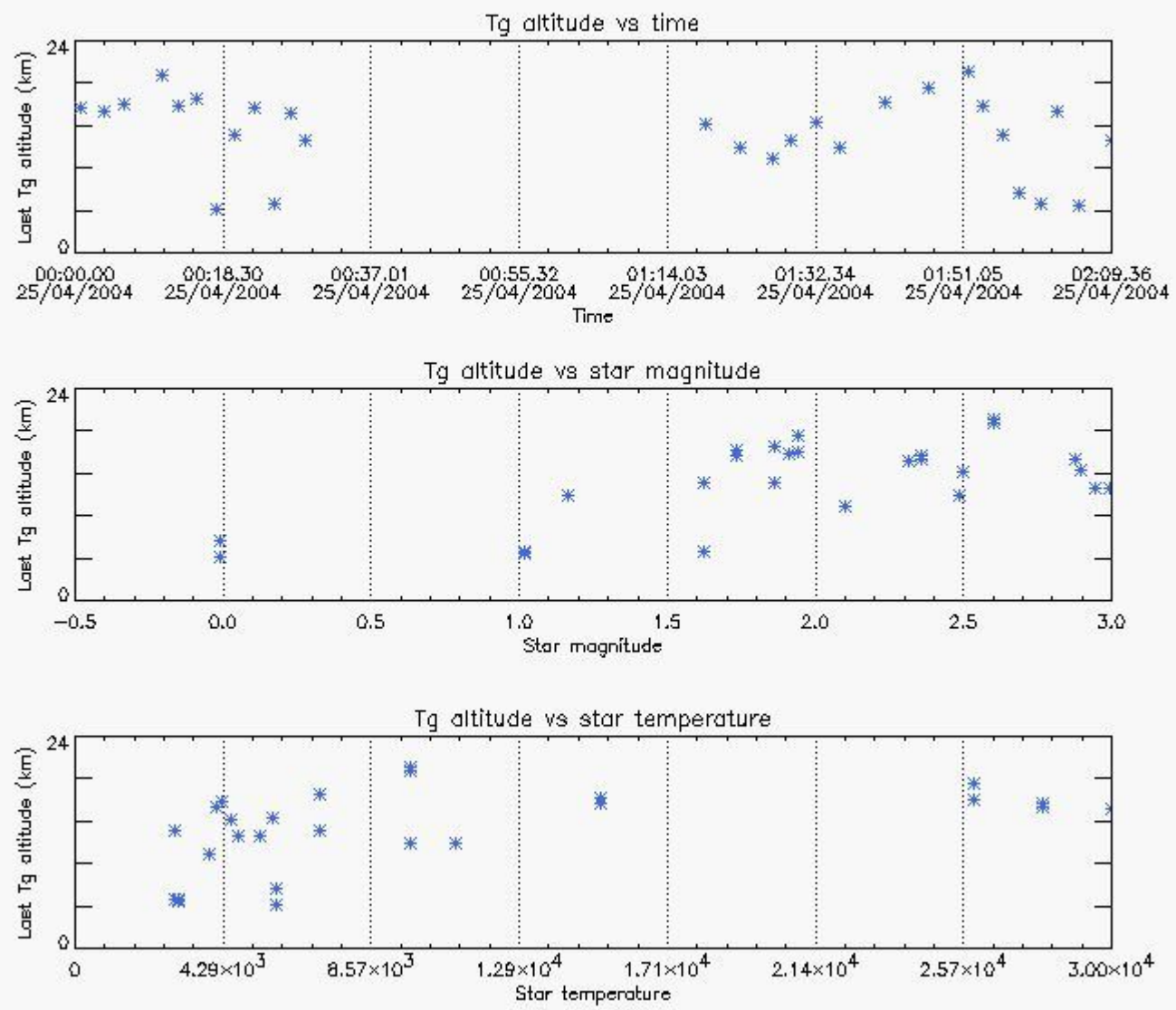
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.603	20.142
St. deviation:	4.4722	2.9785
Maximum:	20.438	24.271
Minimum:	4.8809	12.647
Number of data:	28.000	19.000

6.2 Plot for DARK limb products

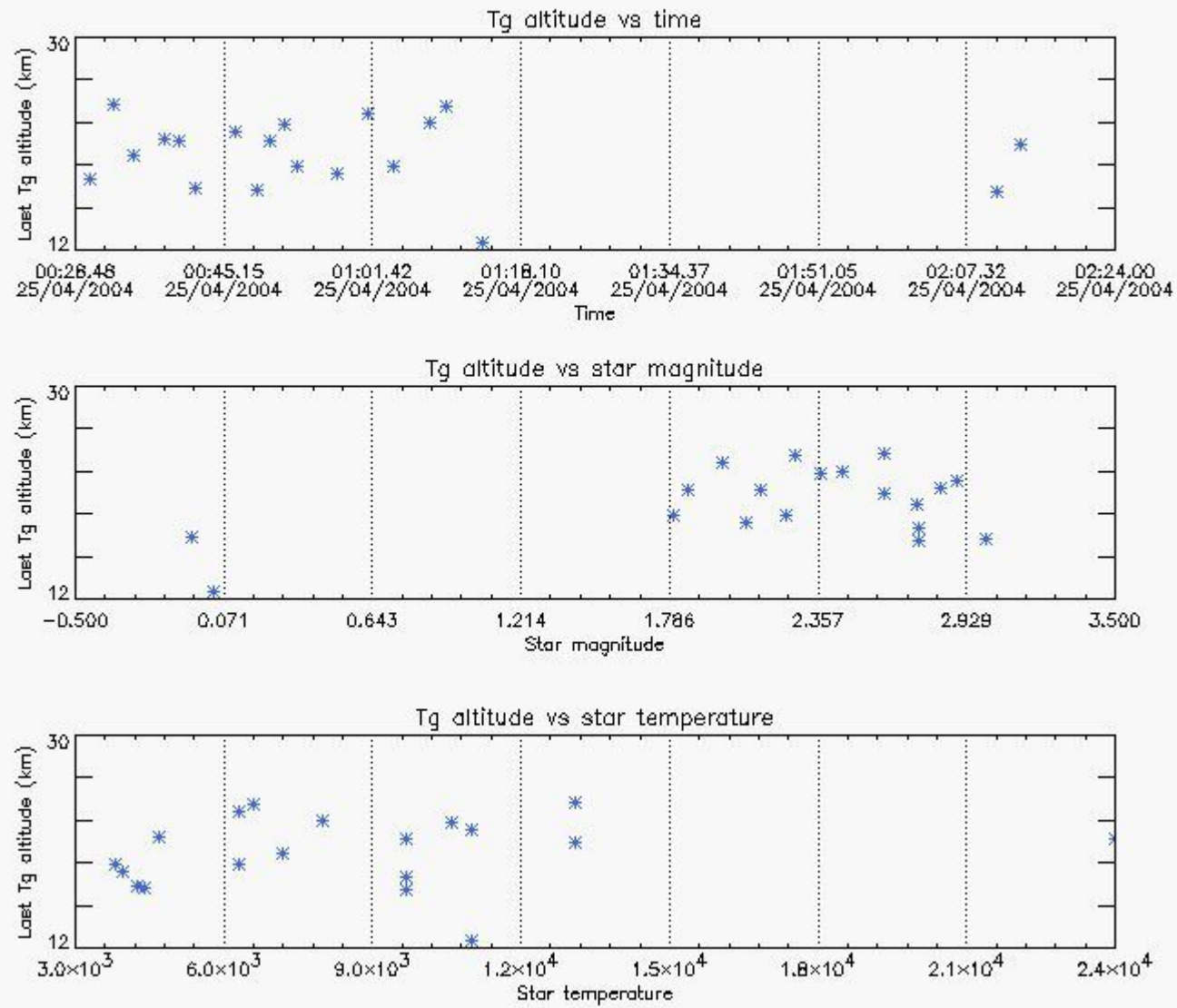
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



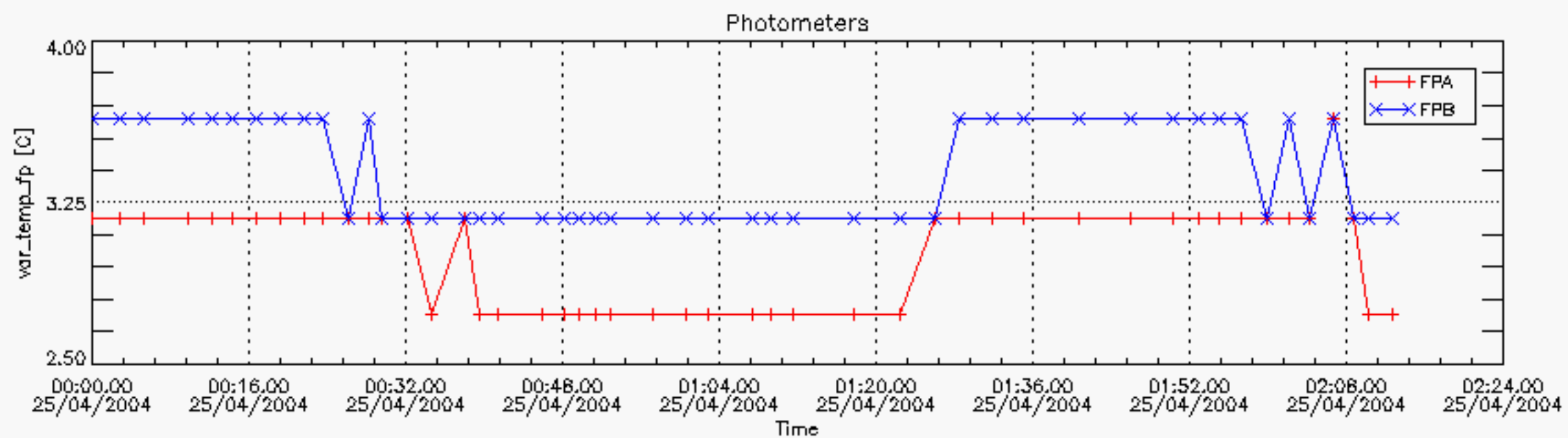
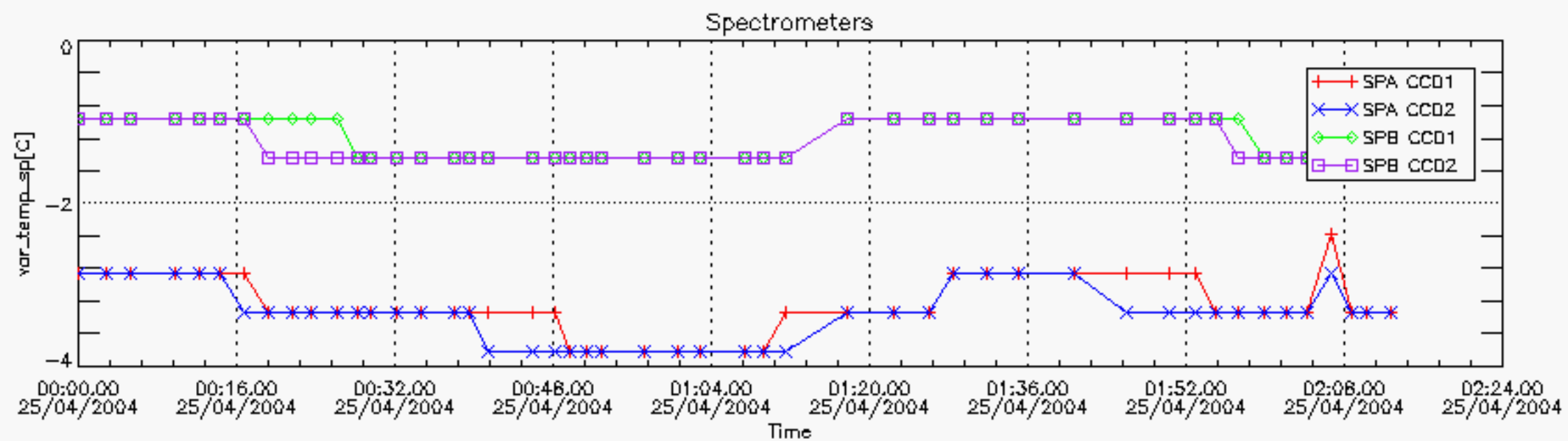
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

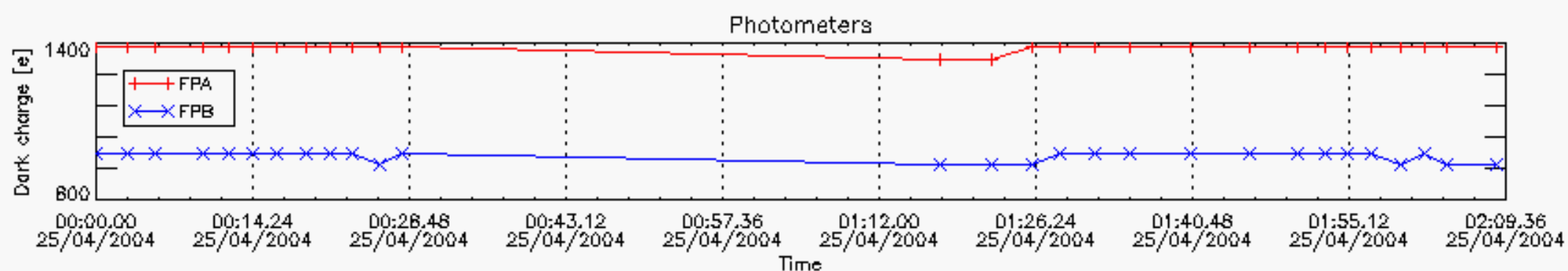
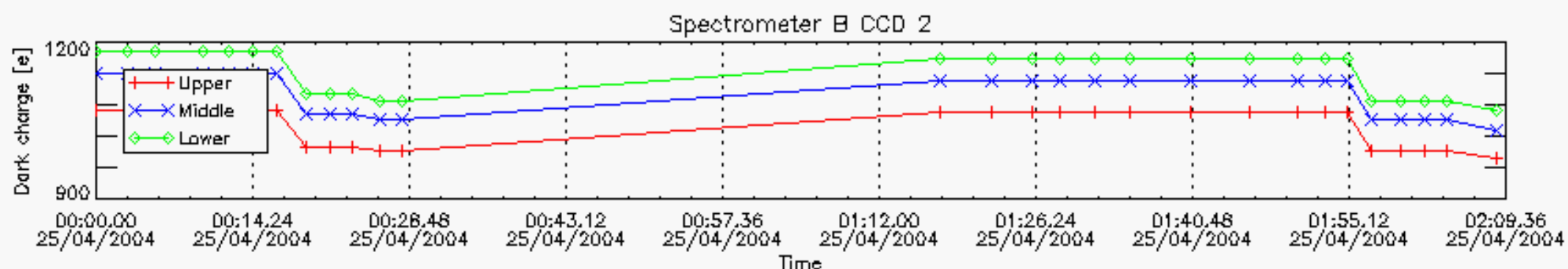
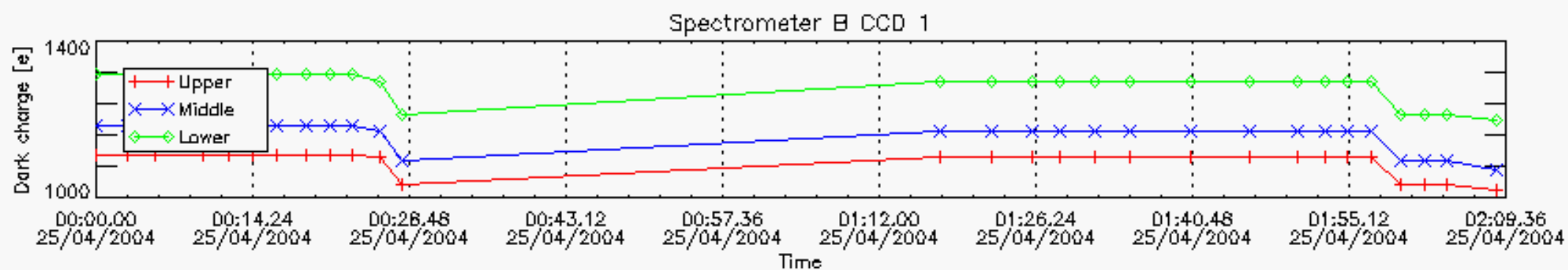
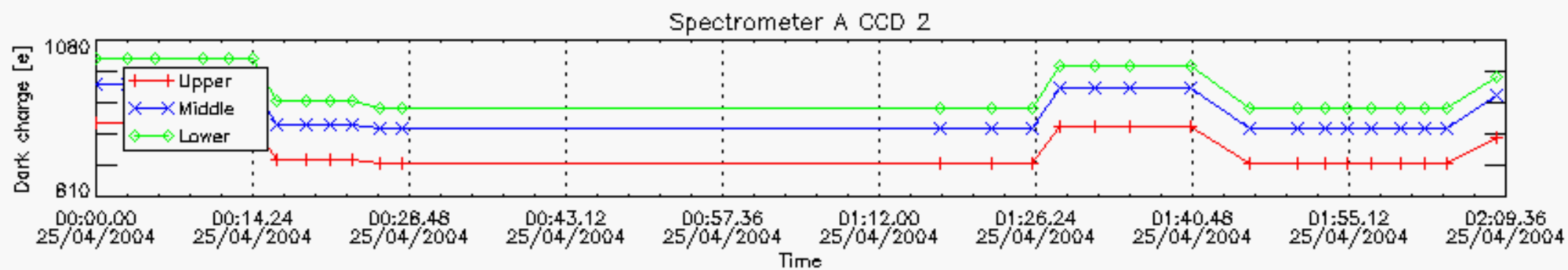
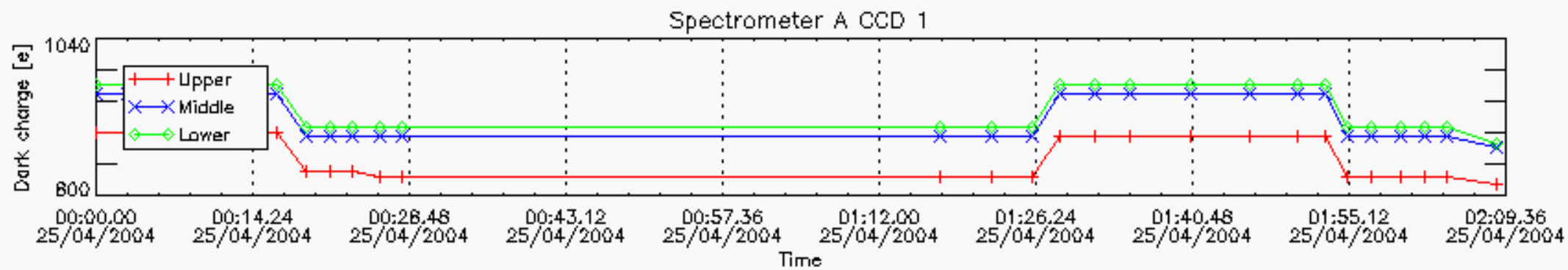
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.8	1447.6	1461.8	1446.9
St. deviation:	4.5324	5.4941	7.4549	8.2376
Maximum:	1509.0	1576.0	1508.0	1492.0
Minimum:	1445.0	1421.0	1428.0	1410.0
Number of data:	36850.	36850.	23100.	23100.

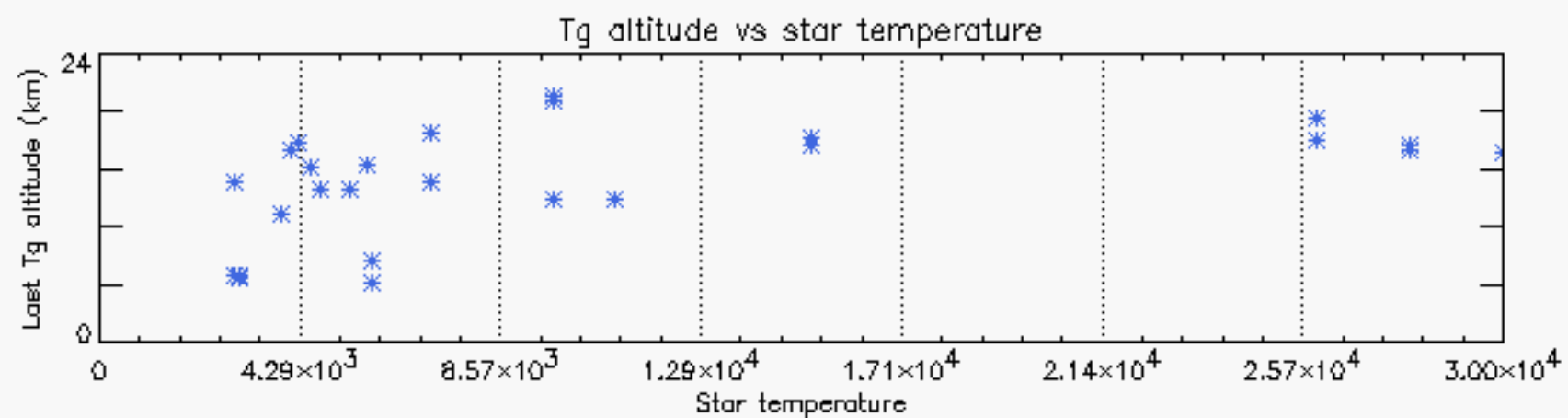
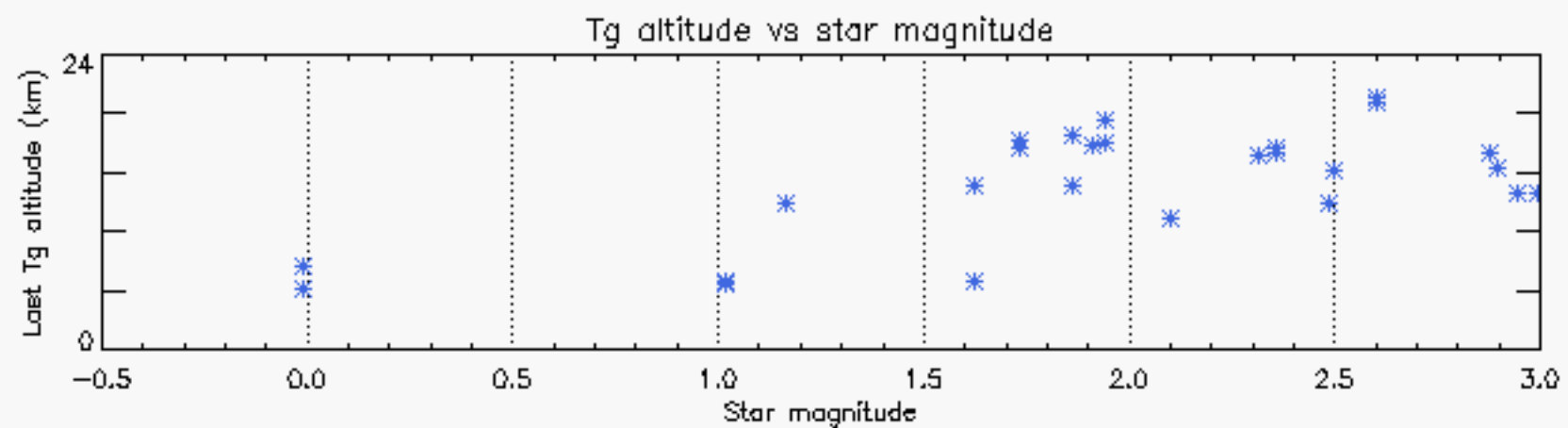
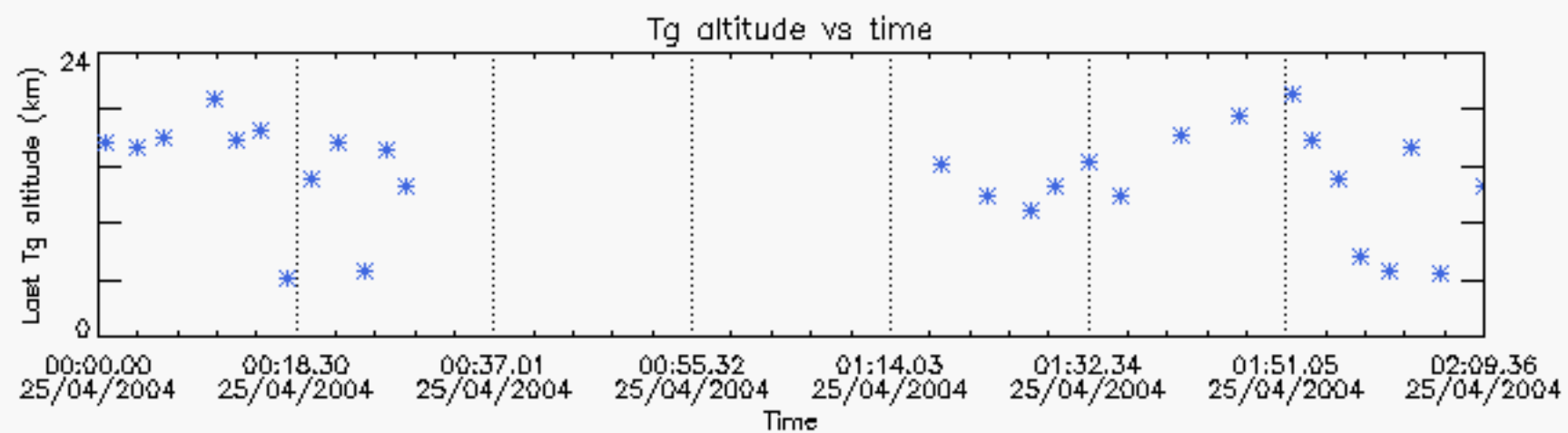




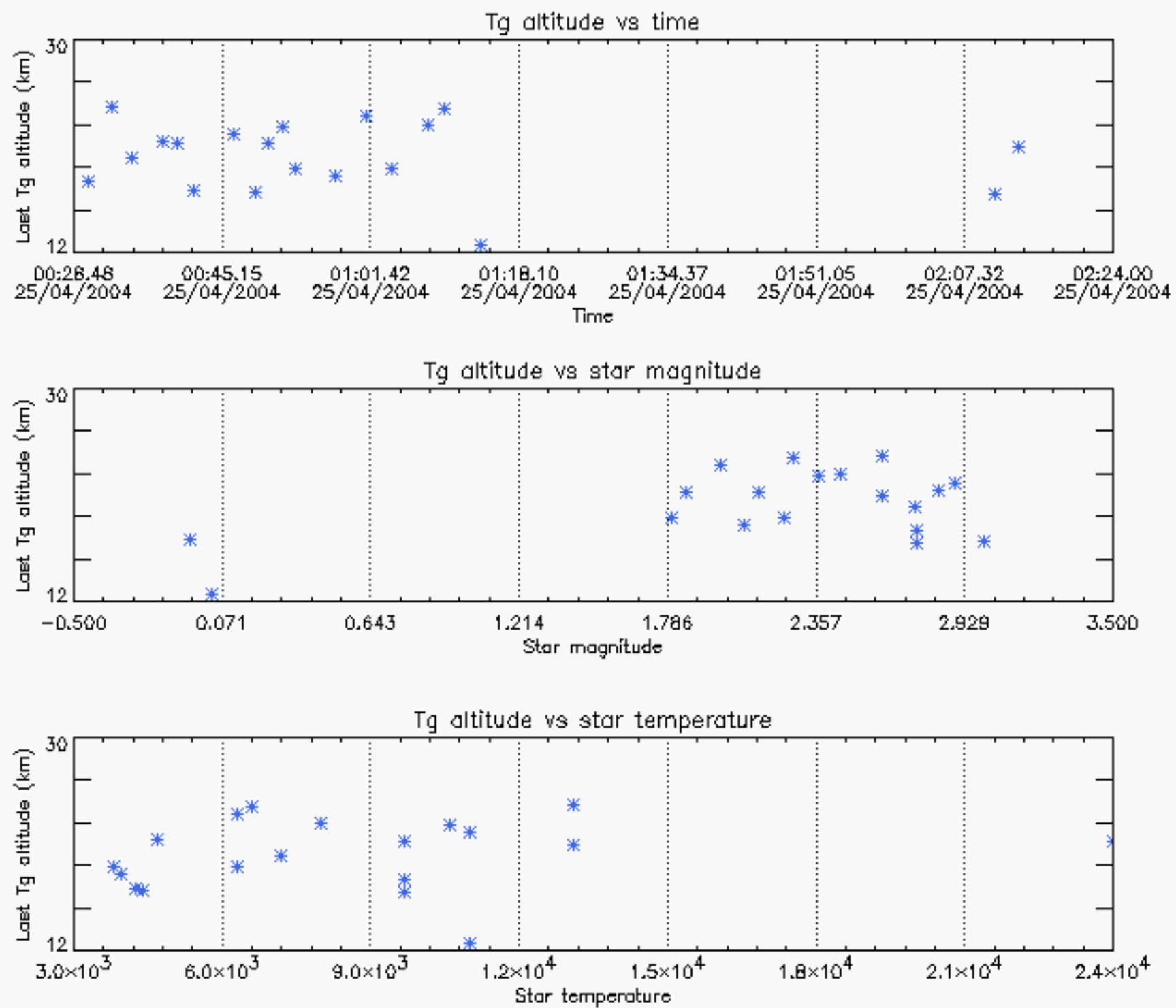




Tangent altitude at which the star is lost



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
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
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 25; 284.1; 01-APR-2004 06:04:23; Dark ; 53.5; 85; Kap Sco ; 2.41; 28000;occ; 107; 0;10910
 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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 25; 73.3; 01-APR-2004 07:41:28; Dark ; 63.0; 116; 19Del Sgr ; 2.70; 4100;occ; 126; 0;10911
 26; 285.7; 01-APR-2004 07:45:01; Dark ; 55.0; 85; Kap Sco ; 2.41; 28000;occ; 110; 0;10911
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 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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 33; 1103.3; 01-APR-2004 07:58:38; Dark ; 54.0; 54; 5The Cen ; 2.06; 4500;occ; 108; 0;10911
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 13;-2118.4; 01-APR-2004 08:45:32; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 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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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
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