

GOMOS Daily Report 26-MAR-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	27MAR2004 06:58:29
Data source version	<Any version>
Start time of products	26-MAR-2004 (26MAR2004 00:00:00)
Stop time of products	27-MAR-2004 (27MAR2004 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

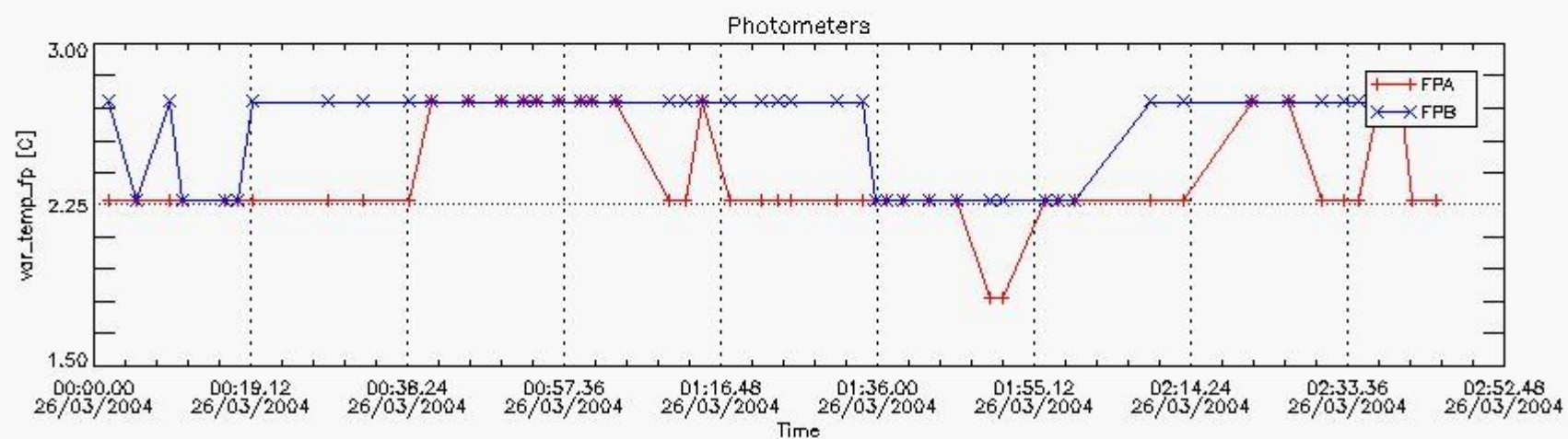
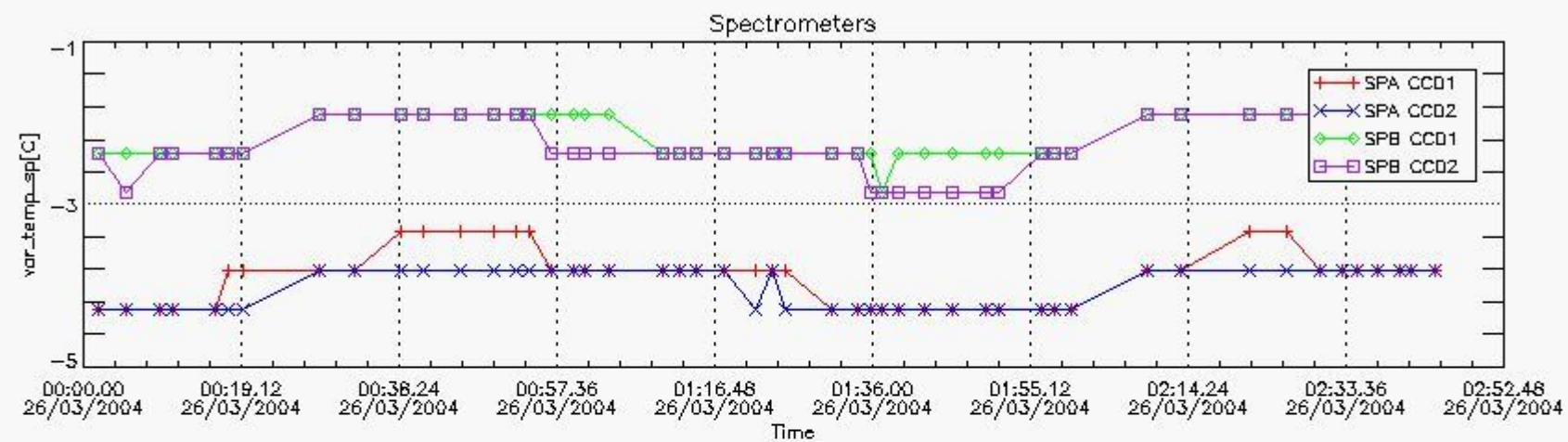
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040326_000149_000000442025_00245_10820_0012.N1	26-MAR-2004 00:01:49	Bright	44.000	60	7Bet UMi	2.0810	3950.0	88	10820	No
GOM_TRA_1PNPDE20040326_000512_000000512025_00245_10820_0013.N1	26-MAR-2004 00:05:12	Bright	51.000	119	14Eta Dra	2.7270	4700.0	102	10820	No
GOM_TRA_1PNPDE20040326_000913_000000402025_00245_10820_0014.N1	26-MAR-2004 00:09:13	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	10820	No
GOM_TRA_1PNPDE20040326_001049_000000382025_00245_10820_0015.N1	26-MAR-2004 00:10:49	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	10820	No
GOM_TRA_1PNPDE20040326_001559_000000432025_00245_10820_0016.N1	26-MAR-2004 00:15:59	Bright	42.500	19	50Alp Cyg	1.2460	10500.	85	10820	No
GOM_TRA_1PNPDE20040326_001737_000000412025_00245_10820_0017.N1	26-MAR-2004 00:17:37	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	10820	No
GOM_TRA_1PNPDE20040326_001929_000000432025_00245_10820_0018.N1	26-MAR-2004 00:19:29	Bright	42.500	92	53Eps Cyg	2.5000	4500.0	85	10820	No
GOM_TRA_1PNPDE20040326_002846_000000692025_00245_10820_0019.N1	26-MAR-2004 00:28:46	Dark	69.000	11	53Alp Aql	0.76500	8000.0	138	10820	No
GOM_TRA_1PNPDE20040326_003258_000000432025_00245_10820_0020.N1	26-MAR-2004 00:32:58	Dark	42.500	142	49Del Cap	2.8500	8900.0	85	10820	No
GOM_TRA_1PNPDE20040326_003841_000000402025_00245_10820_0021.N1	26-MAR-2004 00:38:41	Dark	40.000	172	Gam Gru	3.0030	13100.	80	10820	No
GOM_TRA_1PNPDE20040326_004116_000000402025_00245_10820_0022.N1	26-MAR-2004 00:41:16	Dark	40.000	31	Alp Gru	1.7340	15200.	80	10820	No
GOM_TRA_1PNPDE20040326_004547_000000542025_00245_10820_0023.N1	26-MAR-2004 00:45:47	Dark	54.000	38	20Eps Sgr	1.8360	11000.	108	10820	No
GOM_TRA_1PNPDE20040326_004953_000000582025_00246_10821_0024.N1	26-MAR-2004 00:49:53	Dark	57.500	25	35Lam Sco	1.6200	28000.	115	10821	No
GOM_TRA_1PNPDE20040326_005231_000000452025_00246_10821_0025.N1	26-MAR-2004 00:52:31	Dark	45.000	43	Alp TrA	1.9100	4250.0	90	10821	No
GOM_TRA_1PNPDE20040326_005415_000000412025_00246_10821_0026.N1	26-MAR-2004 00:54:15	Dark	41.000	134	Bet TrA	2.8100	6600.0	82	10821	No
GOM_TRA_1PNPDE20040326_005656_000000562025_00246_10821_0027.N1	26-MAR-2004 00:56:56	Dark	55.500	4	Alp1Cen	-0.010000	5800.0	111	10821	No
GOM_TRA_1PNPDE20040326_005932_000000462025_00246_10821_0028.N1	26-MAR-2004 00:59:32	Dark	46.000	12	Alp1Cru	0.77500	30000.	92	10821	No
GOM_TRA_1PNPDE20040326_010055_000000462025_00246_10821_0029.N1	26-MAR-2004 01:00:55	Dark	45.500	26	Gam Cru	1.6240	2900.0	91	10821	No
GOM_TRA_1PNPDE20040326_010355_000000552025_00246_10821_0030.N1	26-MAR-2004 01:03:55	Dark	55.000	54	5The Cen	2.0550	4500.0	110	10821	No
GOM_TRA_1PNPDE20040326_011024_000000522025_00246_10821_0000.N1	26-MAR-2004 01:10:24	Dark	52.000	106	9Bet Crv	2.6480	5600.0	104	10821	No
GOM_TRA_1PNPDE20040326_011228_000000482025_00246_10821_0001.N1	26-MAR-2004 01:12:28	Dark	48.000	100	4Gam Crv	2.5800	13100.	96	10821	No
GOM_TRA_1PNPDE20040326_011433_000000742025_00246_10821_0002.N1	26-MAR-2004 01:14:33	Dark	74.000	15	67Alp Vir	0.97600	28000.	148	10821	No
GOM_TRA_1PNPDE20040326_011756_000000502025_00246_10821_0003.N1	26-MAR-2004 01:17:56	Bright	49.500	121	29Gam Vir	2.7400	7200.0	99	10821	No
GOM_TRA_1PNPDE20040326_012147_000000392025_00246_10821_0004.N1	26-MAR-2004 01:21:47	Bright	39.000	22	32Alp Leo	1.3600	15200.	78	10821	No
GOM_TRA_1PNPDE20040326_012351_000000392025_00246_10821_0005.N1	26-MAR-2004 01:23:51	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	10821	No
GOM_TRA_1PNPDE20040326_012516_000000382025_00246_10821_0006.N1	26-MAR-2004 01:25:16	Bright	38.000	166	17Eps Leo	2.9800	6000.0	76	10821	No
GOM_TRA_1PNPDE20040326_013056_000000402025_00246_10821_0007.N1	26-MAR-2004 01:30:56	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	10821	No
GOM_TRA_1PNPDE20040326_013414_000000382025_00246_10821_0008.N1	26-MAR-2004 01:34:14	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	10821	No
GOM_TRA_1PNPDE20040326_013546_000000382025_00246_10821_0009.N1	26-MAR-2004 01:35:46	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	10821	No
GOM_TRA_1PNPDE20040326_013708_000000492025_00246_10821_0010.N1	26-MAR-2004 01:37:08	Bright	48.500	55	79Zet UMa	2.0600	10200.	97	10821	No
GOM_TRA_1PNPDE20040326_013909_000000732025_00246_10821_0011.N1	26-MAR-2004 01:39:09	Bright	72.500	180	27Gam Boo	3.0400	8000.0	145	10821	No
GOM_TRA_1PNPDE20040326_014225_000000422025_00246_10821_0012.N1	26-MAR-2004 01:42:25	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	10821	No
GOM_TRA_1PNPDE20040326_014547_000000462025_00246_10821_0013.N1	26-MAR-2004 01:45:47	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	10821	No
GOM_TRA_1PNPDE20040326_014952_000000382025_00246_10821_0014.N1	26-MAR-2004 01:49:52	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	10821	No
GOM_TRA_1PNPDE20040326_015123_000000422025_00246_10821_0015.N1	26-MAR-2004 01:51:23	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	10821	No
GOM_TRA_1PNPDE20040326_015635_000000442025_00246_10821_0016.N1	26-MAR-2004 01:56:35	Bright	43.500	19	50Alp Cyg	1.2460	10500.	87	10821	No
GOM_TRA_1PNPDE20040326_015813_000000432025_00246_10821_0017.N1	26-MAR-2004 01:58:13	Bright	43.000	66	37Gam Cyg	2.2080	5900.0	86	10821	No
GOM_TRA_1PNPDE20040326_020005_000000432025_00246_10821_0018.N1	26-MAR-2004 02:00:05	Bright	43.000	92	53Eps Cyg	2.5000	4500.0	86	10821	No
GOM_TRA_1PNPDE20040326_020921_000000622025_00246_10821_0019.N1	26-MAR-2004 02:09:21	Dark	61.500	11	53Alp Aql	0.76500	8000.0	123	10821	No
GOM_TRA_1PNPDE20040326_021333_000000462025_00246_10821_0020.N1	26-MAR-2004 02:13:33	Dark	45.500	142	49Del Cap	2.8500	8900.0	91	10821	No
GOM_TRA_1PNPDE20040326_022152_000000422025_00246_10821_0021.N1	26-MAR-2004 02:21:52	Dark	42.000	31	Alp Gru	1.7340	15200.	84	10821	No
GOM_TRA_1PNPDE20040326_022625_000000572025_00246_10821_0022.N1	26-MAR-2004 02:26:25	Dark	56.500	38	20Eps Sgr	1.8360	11000.	113	10821	No
GOM_TRA_1PNPDE20040326_023030_000000572025_00247_10822_0023.N1	26-MAR-2004 02:30:30	Dark	57.000	25	35Lam Sco	1.6200	28000.	114	10822	No
GOM_TRA_1PNPDE20040326_023307_000000422025_00247_10822_0024.N1	26-MAR-2004 02:33:07	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	10822	No
GOM_TRA_1PNPDE20040326_023451_000000422025_00247_10822_0025.N1	26-MAR-2004 02:34:51	Dark	41.500	134	Bet TrA	2.8100	6600.0	83	10822	No
GOM_TRA_1PNPDE20040326_023732_000000562025_00247_10822_0026.N1	26-MAR-2004 02:37:32	Dark	56.000	4	Alp1Cen	-0.010000	5800.0	112	10822	No
GOM_TRA_1PNPDE20040326_024008_000000482025_00247_10822_0027.N1	26-MAR-2004 02:40:08	Dark	48.000	12	Alp1Cru	0.77500	30000.	96	10822	No
GOM_TRA_1PNPDE20040326_024132_000000532025_00247_10822_0028.N1	26-MAR-2004 02:41:32	Dark	53.000	26	Gam Cru	1.6240	2900.0	106	10822	No
GOM_TRA_1PNPDE20040326_024432_000000632025_00247_10822_0029.N1	26-MAR-2004 02:44:32	Dark	62.500	54	5The Cen	2.0550	4500.0	125	10822	No

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



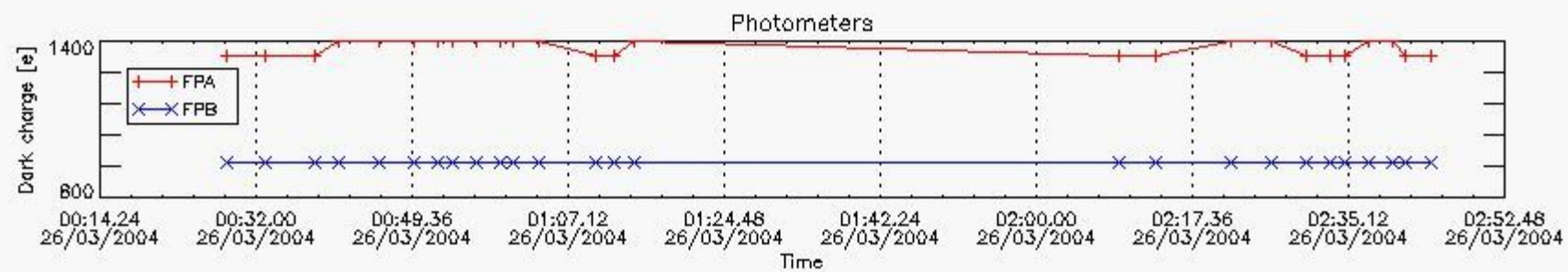
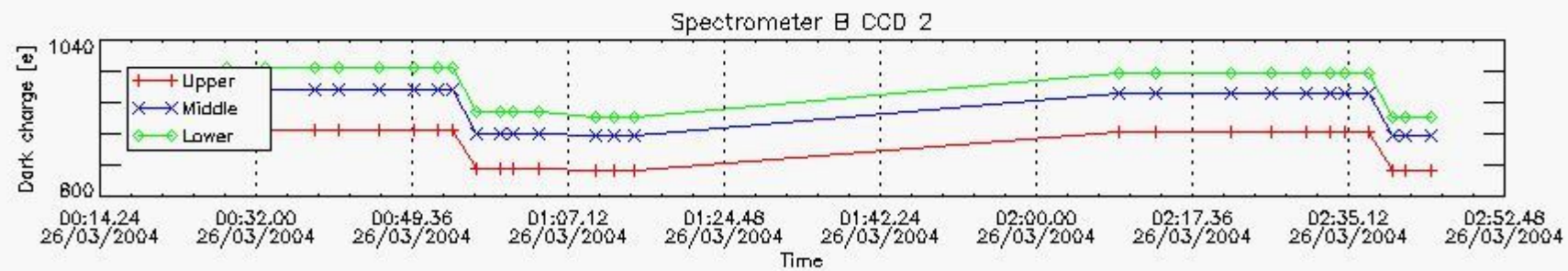
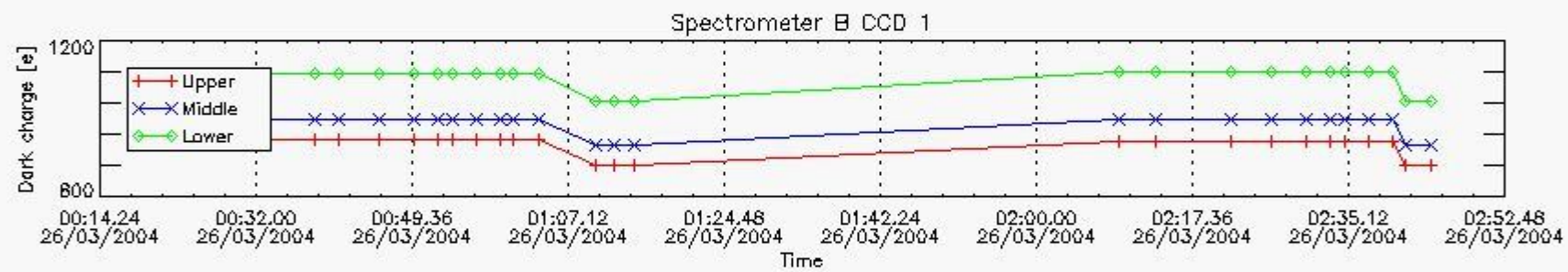
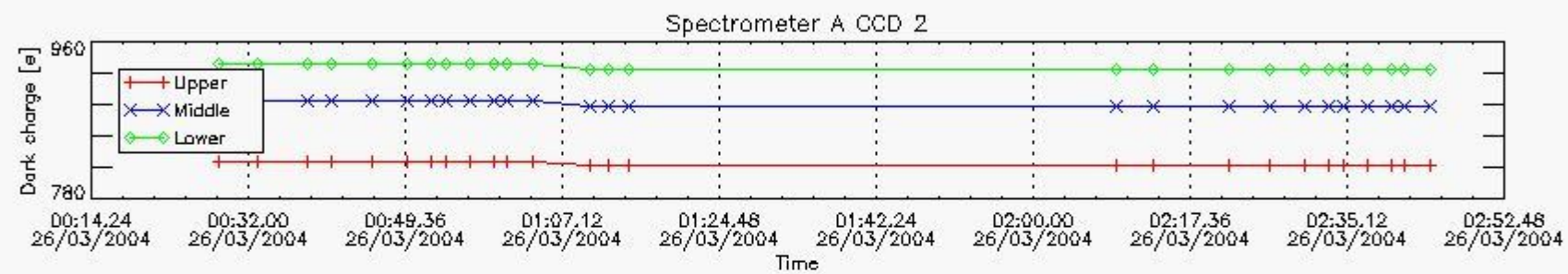
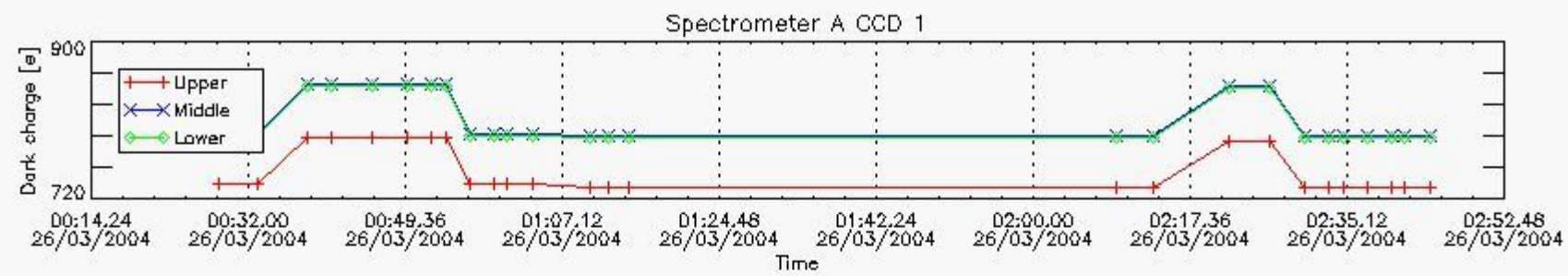
4. Overview of dark signal processing per product

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

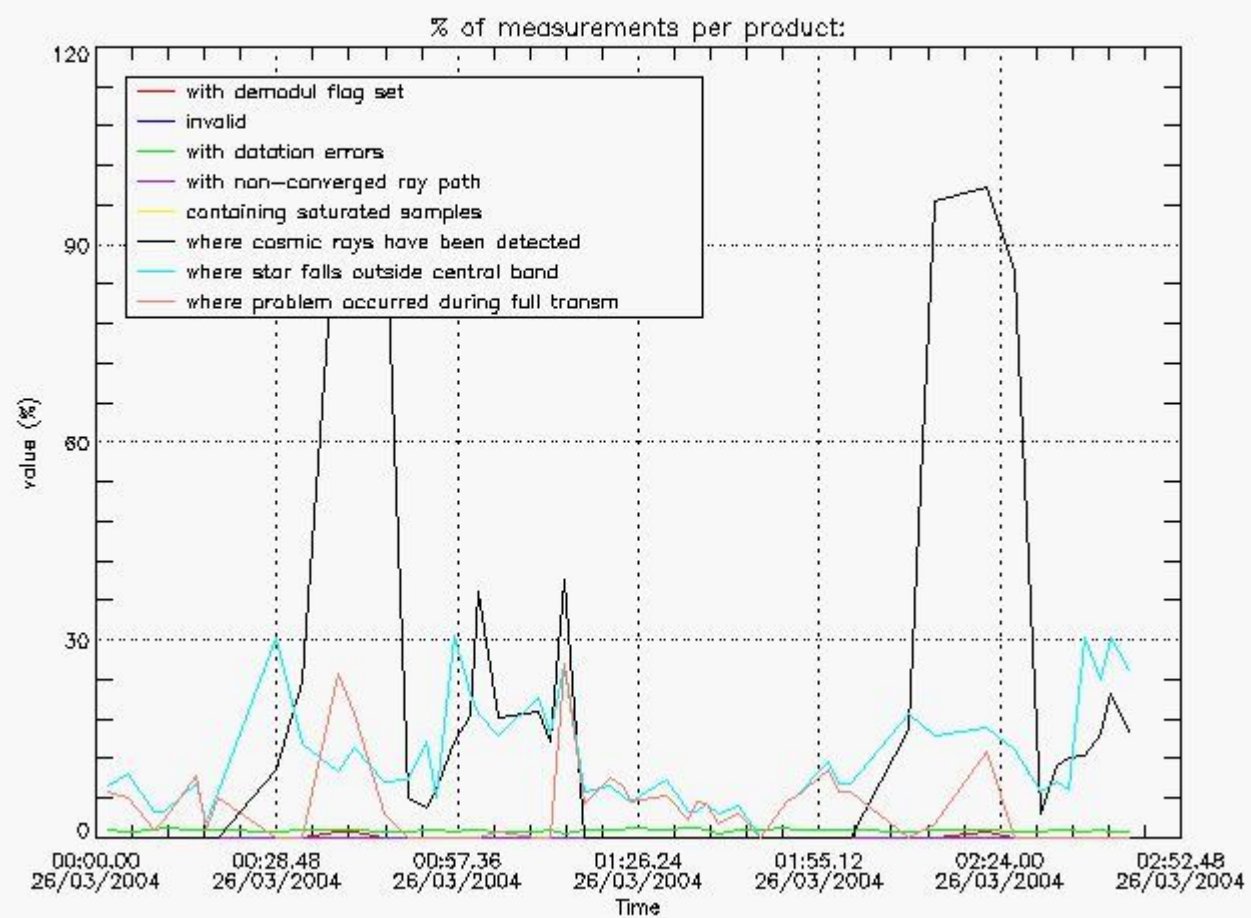


5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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



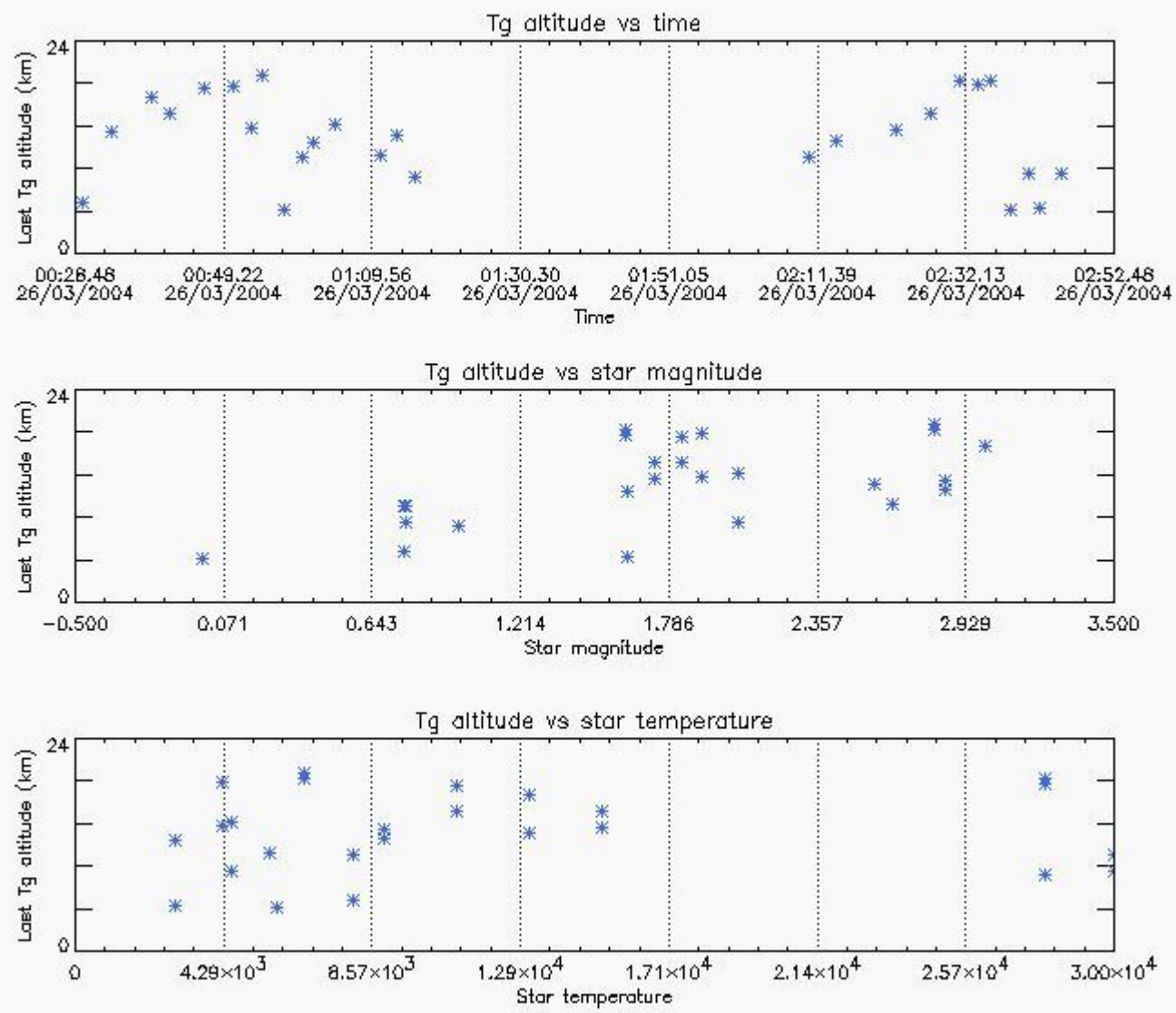
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.101	21.113
St. deviation:	4.8753	2.5192
Maximum:	20.172	27.453
Minimum:	4.8242	16.761
Number of data:	26.000	23.000

6.2 Plot for DARK limb products

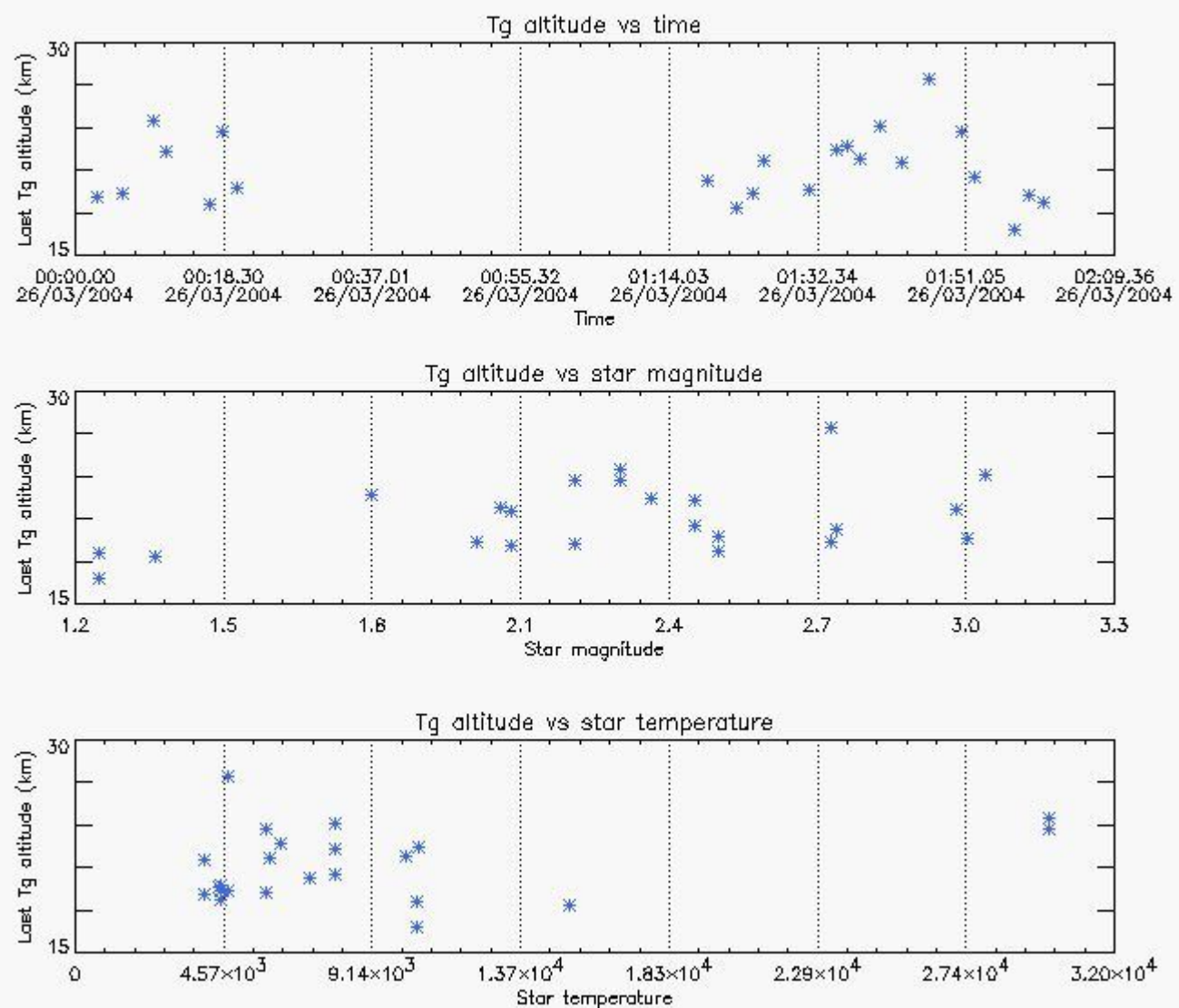
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



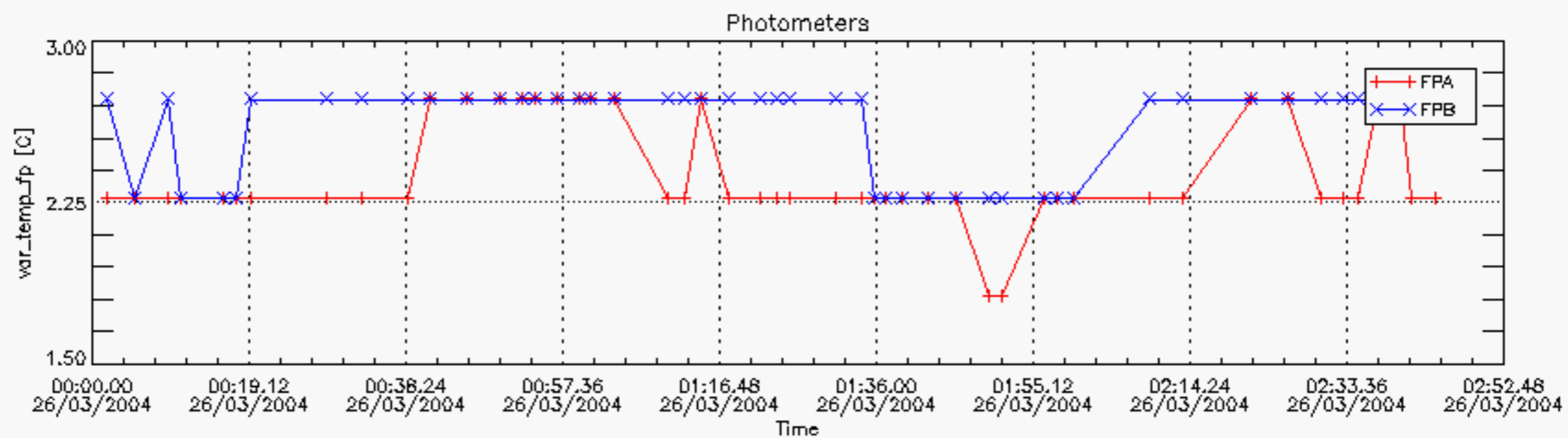
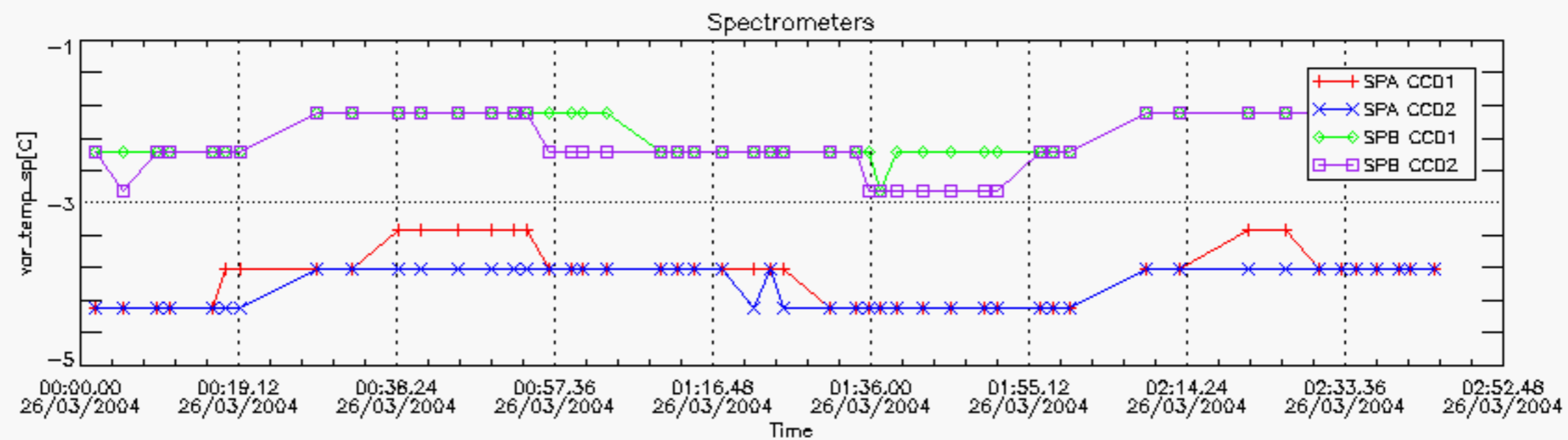
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

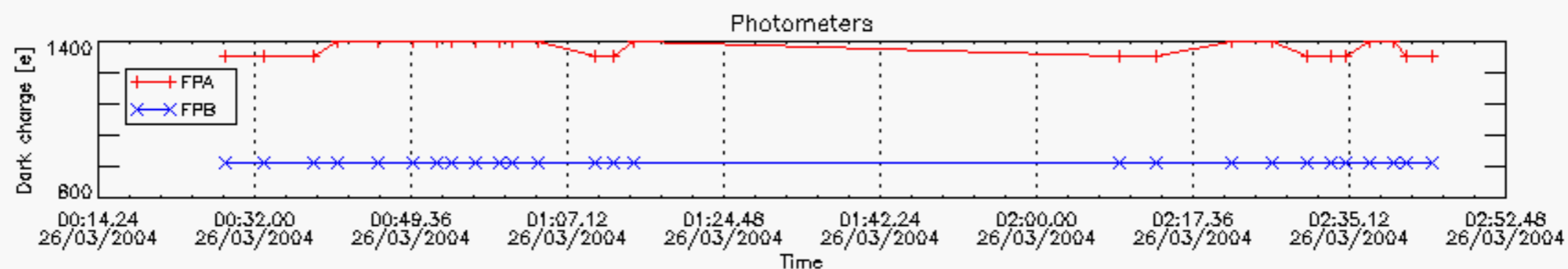
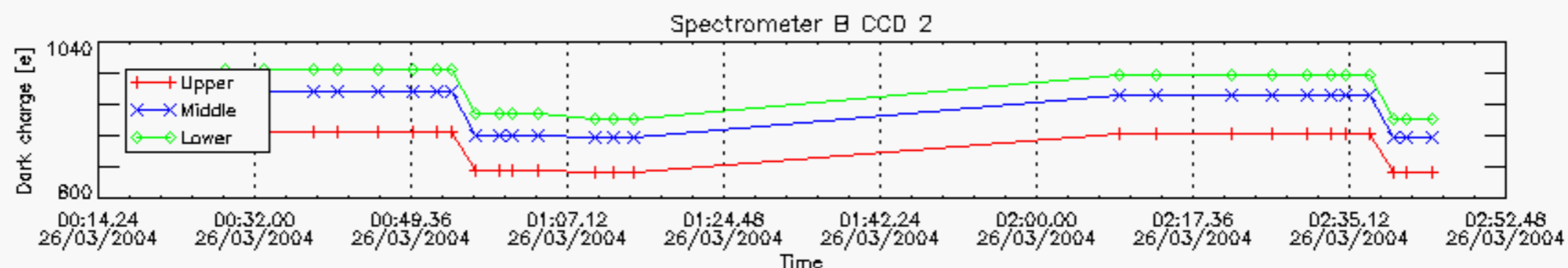
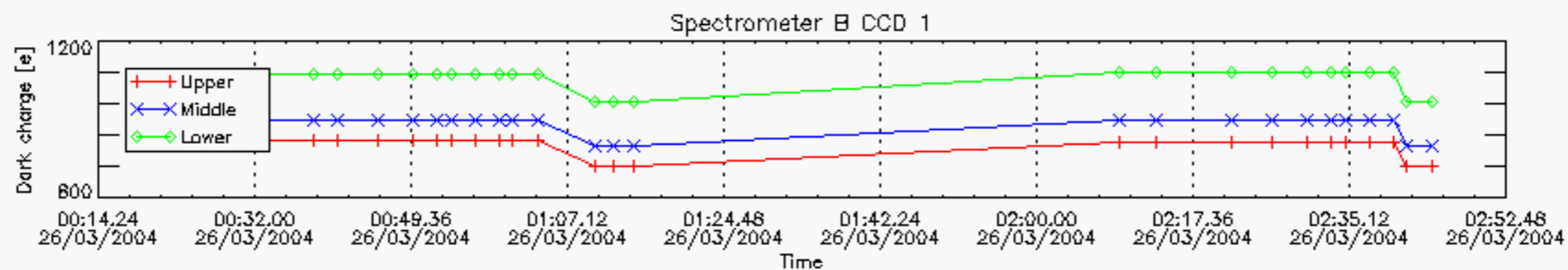
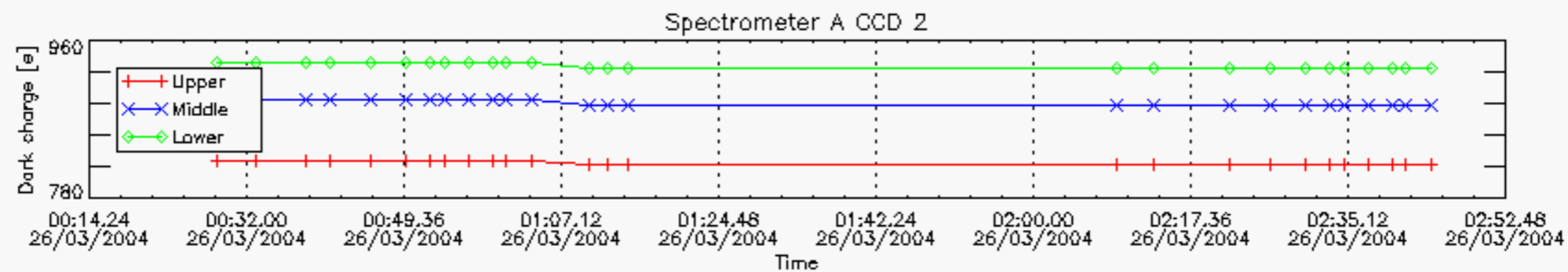
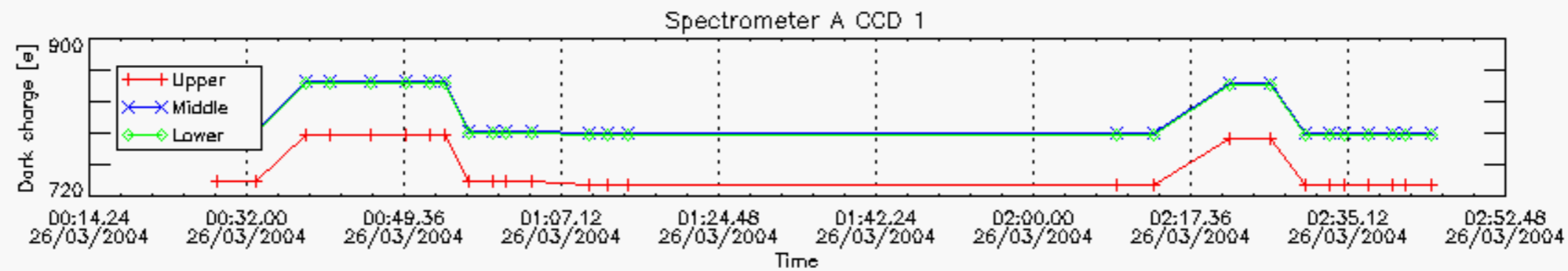
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.3	1447.2	1461.4	1447.8
St. deviation:	4.8896	7.1959	6.5161	8.8195
Maximum:	1646.0	1623.0	1509.0	1526.0
Minimum:	1445.0	1434.0	1444.0	1428.0
Number of data:	32500.	32500.	27350.	27350.

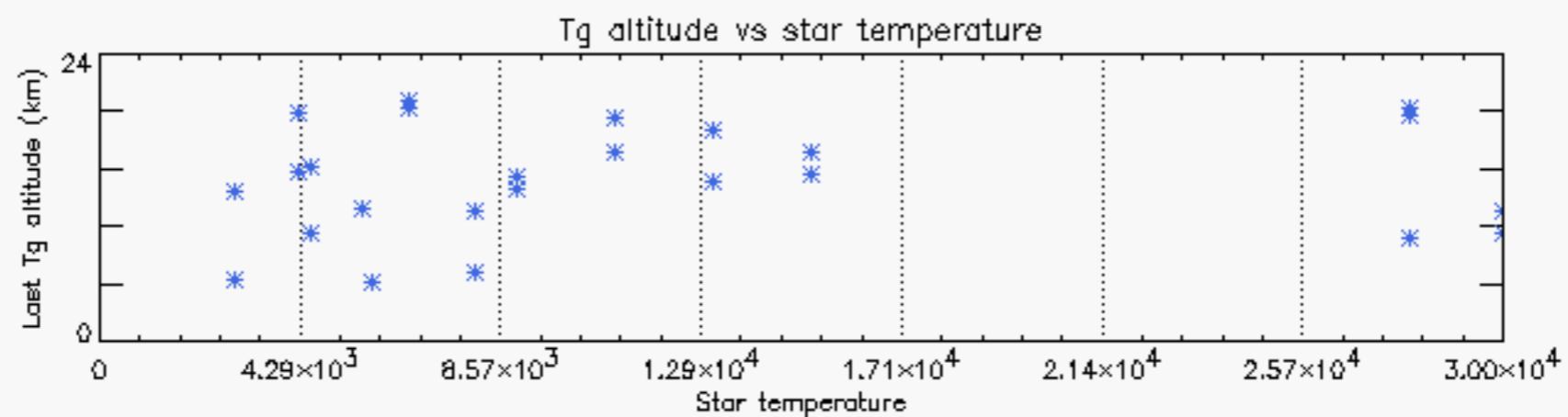
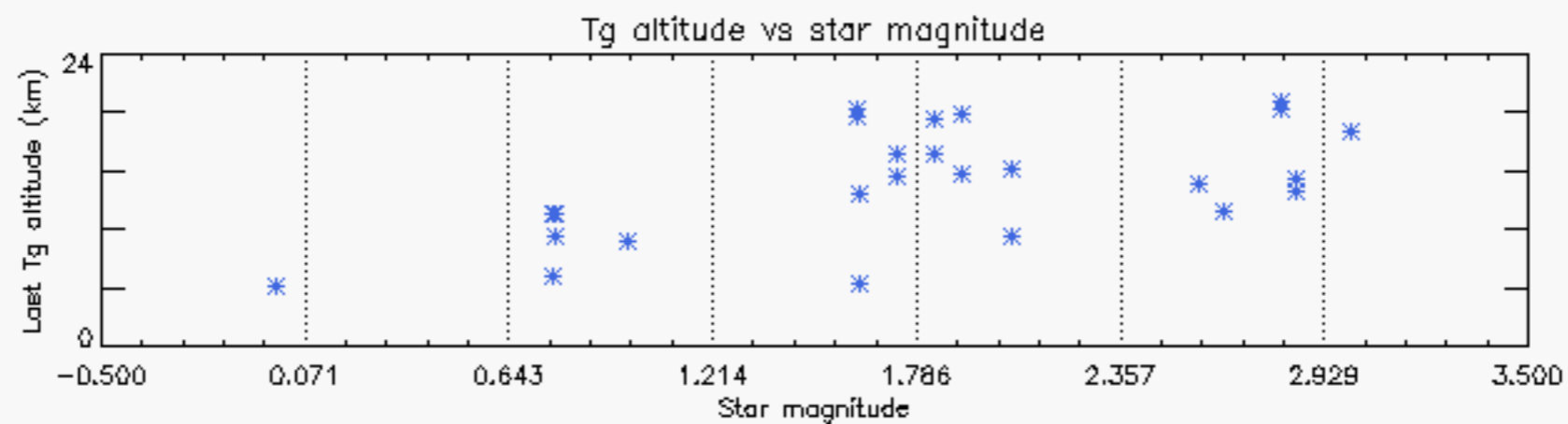
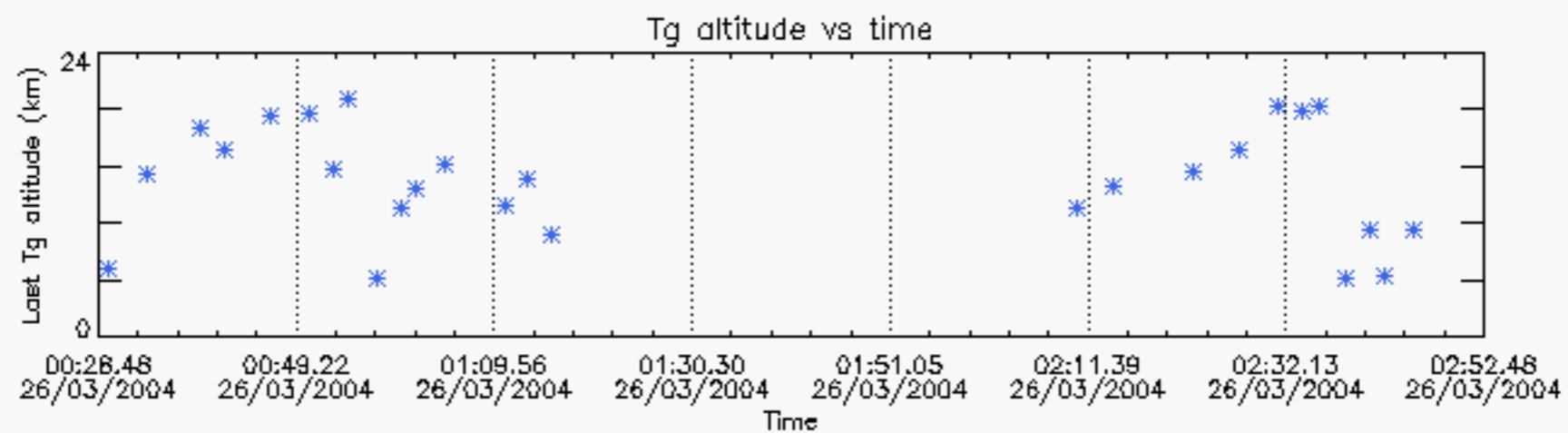




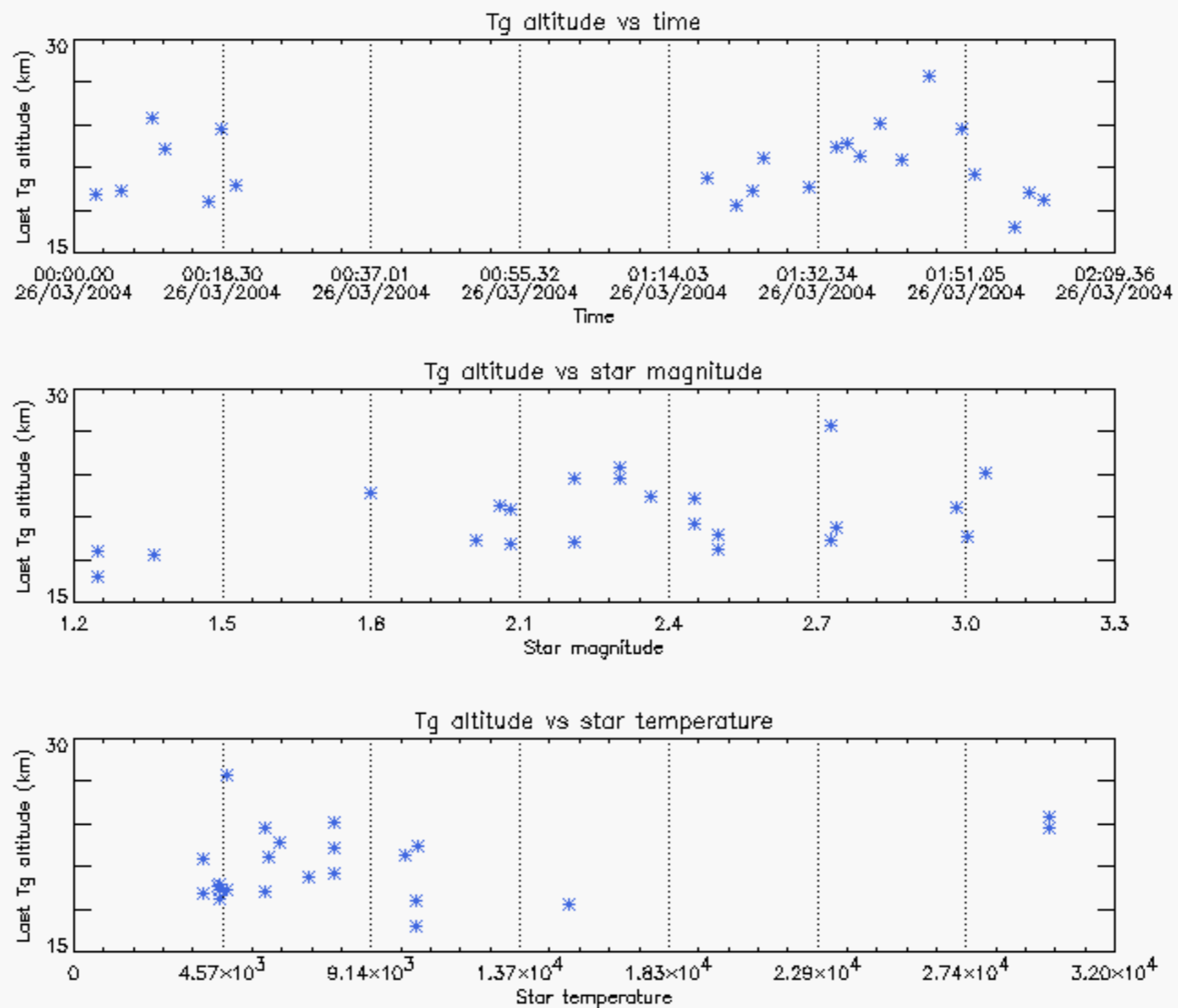




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL__0PNPDK20040301_124206_000058872024_00396_10470_1183.N1

1;	-4479.5;	01-MAR-2004	12:42:06;	Dark	;	66.0;	100;	4Gam Crv	;	2.58;	13100;occ;	132;	77;	10470
2;	-4283.0;	01-MAR-2004	12:45:22;	Dark	;	48.0;	48;	30Alp Hya	;	1.98;	4100;occ;	96;	0;	10470
3;	-3914.8;	01-MAR-2004	12:51:30;	Bright;		43.5;	22;	32Alp Leo	;	1.36;	15200;occ;	87;	0;	10470
4;	-3759.2;	01-MAR-2004	12:54:06;	Bright;		44.0;	51;	41Gam1Leo	;	2.01;	4500;occ;	88;	0;	10470
5;	-3609.5;	01-MAR-2004	12:56:36;	Bright;		39.0;	17;	78Bet Gem	;	1.16;	4500;occ;	78;	0;	10470
6;	-3535.3;	01-MAR-2004	12:57:50;	Bright;		37.0;	24;	66Alp Gem	;	1.58;	10200;occ;	74;	0;	10470
7;	-3227.1;	01-MAR-2004	13:02:58;	Bright;		47.5;	174;	52Psi UMa	;	3.00;	4400;occ;	95;	0;	10470
8;	-3060.6;	01-MAR-2004	13:05:45;	Bright;		43.5;	82;	48Bet UMa	;	2.37;	10600;occ;	87;	0;	10470
9;	-2979.6;	01-MAR-2004	13:07:05;	Bright;		41.5;	36;	50Alp UMa	;	1.80;	6300;occ;	83;	0;	10470
10;	-2790.8;	01-MAR-2004	13:10:14;	Bright;		48.5;	32;	77Eps UMa	;	1.76;	11000;occ;	97;	0;	10470
11;	-2603.8;	01-MAR-2004	13:13:21;	Bright;		36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	10470
12;	-2268.9;	01-MAR-2004	13:18:56;	Bright;		48.5;	119;	14Eta Dra	;	2.73;	4700;occ;	97;	0;	10470
13;	-2152.5;	01-MAR-2004	13:20:53;	Bright;		35.5;	89;	5Alp Cep	;	2.45;	8000;occ;	71;	0;	10470
14;	-2003.4;	01-MAR-2004	13:23:22;	Bright;		49.0;	130;	23Bet Dra	;	2.80;	5800;occ;	98;	0;	10470
15;	-1846.6;	01-MAR-2004	13:25:59;	Bright;		35.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	71;	0;	10470
16;	-1753.1;	01-MAR-2004	13:27:32;	Bright;		36.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	72;	0;	10470
17;	-1660.4;	01-MAR-2004	13:29:05;	Bright;		36.0;	92;	53Eps Cyg	;	2.50;	4500;occ;	72;	0;	10470
18;	-1477.6;	01-MAR-2004	13:32:08;	Bright;		88.0;	133;	40Zet Her	;	2.81;	6000;occ;	176;	0;	10470
19;	-1236.0;	01-MAR-2004	13:36:09;	Bright;		41.5;	168;	17Zet Aql	;	2.99;	11000;occ;	83;	0;	10470
20;	-1029.5;	01-MAR-2004	13:39:36;	Dark	;	72.5;	59;	55Alp Oph	;	2.08;	8900;occ;	145;	0;	10470
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3;	-3914.5;	24-MAR-2004	07:26:46;	Bright	;	38.0;	22;	32Alp Leo	;	1.36;	15200;occ;	76;	0;	10796
4;	-3788.2;	24-MAR-2004	07:28:52;	Bright	;	37.5;	51;	41Gam1Leo	;	2.01;	4500;occ;	75;	0;	10796
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28;	784.0;	24-MAR-2004	08:45:04;	Dark	;	48.5;	12;	Alp1Cru	;	0.77;	30000;occ;	97;	0;	10797
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