

GOMOS Daily Report 03-DEC-2003

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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	08DEC2003 13:22:39
Data source version	<Any version>
Start time of products	03-DEC-2003 (03DEC2003 00:00:00)
Stop time of products	04-DEC-2003 (04DEC2003 00:00:00)
Store outputs flag	1
Nb of level 1b prods	41
Nb of prods with errors	1

2. Summary of products arrived in PCF

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

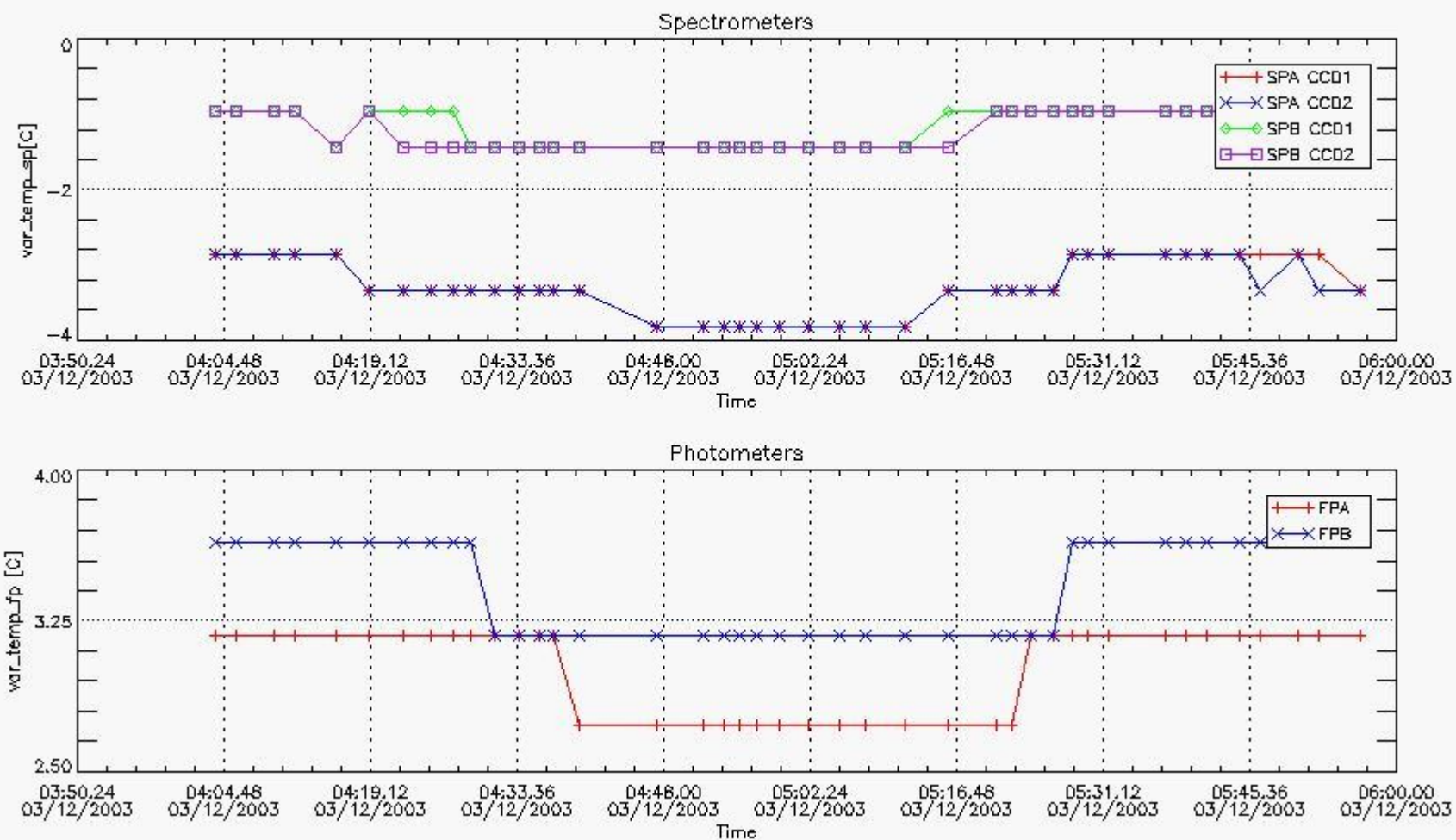
[2.2 Summary of processed GOM_TRA_1P products.](#)

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_1PNPDE20031203_040355_000000582022_00119_09191_0032.N1	03-DEC-2003 04:03:55	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	9191	No
GOM_TRA_1PNPDE20031203_040557_000000652022_00119_09191_0033.N1	03-DEC-2003 04:05:57	Dark	64.500	117	Pi Pup	2.7060	3800.0	129	9191	No
GOM_TRA_1PNPDE20031203_040942_000000702022_00119_09191_0034.N1	03-DEC-2003 04:09:42	Dark	69.500	23	21Eps CMa	1.5020	26000.	139	9191	No
GOM_TRA_1PNPDE20031203_041149_000000712022_00119_09191_0035.N1	03-DEC-2003 04:11:49	Dark	70.500	179	24Omi2CMa	3.0320	24000.	141	9191	No
GOM_TRA_1PNPDE20031203_041552_000000932022_00119_09191_0000.N1	03-DEC-2003 04:15:52	Dark	93.000	1	9Alp CMa	-1.4400	11000.	186	9191	Yes
GOM_TRA_1PNPDE20031203_041905_000000642022_00119_09191_0001.N1	03-DEC-2003 04:19:05	Dark	63.500	56	53Kap Ori	2.0650	30000.	127	9191	No
GOM_TRA_1PNPDE20031203_042224_000000592022_00119_09191_0002.N1	03-DEC-2003 04:22:24	Dark	59.000	30	46Eps Ori	1.6940	30000.	118	9191	No
GOM_TRA_1PNPDE20031203_042503_000000602022_00119_09191_0003.N1	03-DEC-2003 04:25:03	Dark	59.500	27	24Gam Ori	1.6360	26000.	119	9191	No
GOM_TRA_1PNPDE20031203_042723_000000602022_00119_09191_0004.N1	03-DEC-2003 04:27:23	Dark	59.500	13	87Alp Tau	0.86700	3800.0	119	9191	No
GOM_TRA_1PNPDE20031203_042901_000000412022_00119_09191_0005.N1	03-DEC-2003 04:29:01	Bright	41.000	146	25Eta Tau	2.8730	15200.	82	9191	No
GOM_TRA_1PNPDE20031203_043124_000000402022_00119_09191_0006.N1	03-DEC-2003 04:31:24	Bright	40.000	150	44Zet Per	2.8900	28000.	80	9191	No
GOM_TRA_1PNPDE20031203_043341_000000392022_00119_09191_0007.N1	03-DEC-2003 04:33:41	Bright	39.000	79	26Bet Per	2.3100	13100.	78	9191	No
GOM_TRA_1PNPDE20031203_043551_000000392022_00119_09191_0008.N1	03-DEC-2003 04:35:51	Bright	38.500	175	39Del Per	3.0100	19400.	77	9191	No
GOM_TRA_1PNPDE20031203_043714_000000392022_00119_09191_0009.N1	03-DEC-2003 04:37:14	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	9191	No
GOM_TRA_1PNPDE20031203_043941_000000382022_00119_09191_0010.N1	03-DEC-2003 04:39:41	Bright	38.000	110	37Del Cas	2.6780	8900.0	76	9191	No
GOM_TRA_1PNPDE20031203_044719_000000382022_00119_09191_0011.N1	03-DEC-2003 04:47:19	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	9191	No
GOM_TRA_1PNPDE20031203_045158_000000432022_00119_09191_0012.N1	03-DEC-2003 04:51:58	Bright	43.000	60	7Bet UMi	2.0810	3950.0	86	9191	No
GOM_TRA_1PNPDE20031203_045351_000000472022_00119_09191_0013.N1	03-DEC-2003 04:53:51	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	9191	No
GOM_TRA_1PNPDE20031203_045527_000000482022_00119_09191_0014.N1	03-DEC-2003 04:55:27	Bright	47.500	82	48Bet UMa	2.3650	10600.	95	9191	No
GOM_TRA_1PNPDE20031203_045710_000000422022_00119_09191_0015.N1	03-DEC-2003 04:57:10	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	9191	No
GOM_TRA_1PNPDE20031203_045918_000000542022_00119_09191_0016.N1	03-DEC-2003 04:59:18	Bright	54.000	39	85Eta UMa	1.8540	24000.	108	9191	No
GOM_TRA_1PNPDE20031203_050214_000000372022_00119_09191_0017.N1	03-DEC-2003 05:02:14	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	9191	No
GOM_TRA_1PNPDE20031203_050514_000000392022_00119_09191_0018.N1	03-DEC-2003 05:05:14	Bright	38.500	83		2.3780	11000.	77	9191	No
GOM_TRA_1PNPDE20031203_050749_000000362022_00119_09191_0019.N1	03-DEC-2003 05:07:49	Bright	36.000	3	16Alp Boo	-0.050000	4250.0	72	9191	No
GOM_TRA_1PNPDE20031203_051143_000000822022_00119_09191_0020.N1	03-DEC-2003 05:11:43	Bright	81.500	96	68Del Leo	2.5600	9300.0	163	9191	No
GOM_TRA_1PNPDE20031203_051553_000000472022_00119_09191_0021.N1	03-DEC-2003 05:15:53	Bright	46.500	121	29Gam Vir	2.7400	7200.0	93	9191	No
GOM_TRA_1PNPDE20031203_052038_000000502022_00119_09191_0022.N1	03-DEC-2003 05:20:38	Dark	49.500	163	7Del Crv	2.9450	11000.	99	9191	No
GOM_TRA_1PNPDE20031203_052215_000000542022_00119_09191_0023.N1	03-DEC-2003 05:22:15	Dark	53.500	106	9Bet Crv	2.6480	5600.0	107	9191	No
GOM_TRA_1PNPDE20031203_052409_000000442022_00119_09191_0024.N1	03-DEC-2003 05:24:09	Dark	44.000	123	lot Cen	2.7500	10200.	88	9191	No
GOM_TRA_1PNPDE20031203_052616_000000422022_00119_09191_0025.N1	03-DEC-2003 05:26:16	Dark	41.500	95	Zet Cen	2.5450	26000.	83	9191	No
GOM_TRA_1PNPDE20031203_052805_000000452022_00119_09191_0026.N1	03-DEC-2003 05:28:05	Dark	44.500	77	Eps Cen	2.3030	28000.	89	9191	No
GOM_TRA_1PNPDE20031203_052943_000000472022_00119_09191_0027.N1	03-DEC-2003 05:29:43	Dark	46.500	10	Bet Cen	0.61000	28000.	93	9191	No
GOM_TRA_1PNPDE20031203_053144_000000522022_00120_09192_0028.N1	03-DEC-2003 05:31:44	Dark	52.000	12	Alp1Cru	0.77500	30000.	104	9192	No
GOM_TRA_1PNPDE20031203_053715_000000422022_00120_09192_0029.N1	03-DEC-2003 05:37:15	Dark	42.000	29	Bet Car	1.6720	10200.	84	9192	No
GOM_TRA_1PNPDE20031203_053915_000000522022_00120_09192_0030.N1	03-DEC-2003 05:39:15	Dark	52.000	41	Eps Car	1.8600	4100.0	104	9192	No
GOM_TRA_1PNPDE20031203_054121_000000582022_00120_09192_0031.N1	03-DEC-2003 05:41:21	Dark	58.000	34	Gam2Vel	1.7930	23000.	116	9192	No
GOM_TRA_1PNPDE20031203_054433_000000492022_00120_09192_0032.N1	03-DEC-2003 05:44:33	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	9192	No
GOM_TRA_1PNPDE20031203_054634_000000642022_00120_09192_0033.N1	03-DEC-2003 05:46:34	Dark	63.500	117	Pi Pup	2.7060	3800.0	127	9192	No
GOM_TRA_1PNPDE20031203_055018_000000632022_00120_09192_0034.N1	03-DEC-2003 05:50:18	Dark	62.500	23	21Eps CMa	1.5020	26000.	125	9192	No
GOM_TRA_1PNPDE20031203_055226_000000692022_00120_09192_0035.N1	03-DEC-2003 05:52:26	Dark	68.500	179	24Omi2CMa	3.0320	24000.	137	9192	No
GOM_TRA_1PNPDE20031203_055628_000000922022_00120_09192_0036.N1	03-DEC-2003 05:56:28	Dark	91.500	1	9Alp CMa	-1.4400	11000.	183	9192	No

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





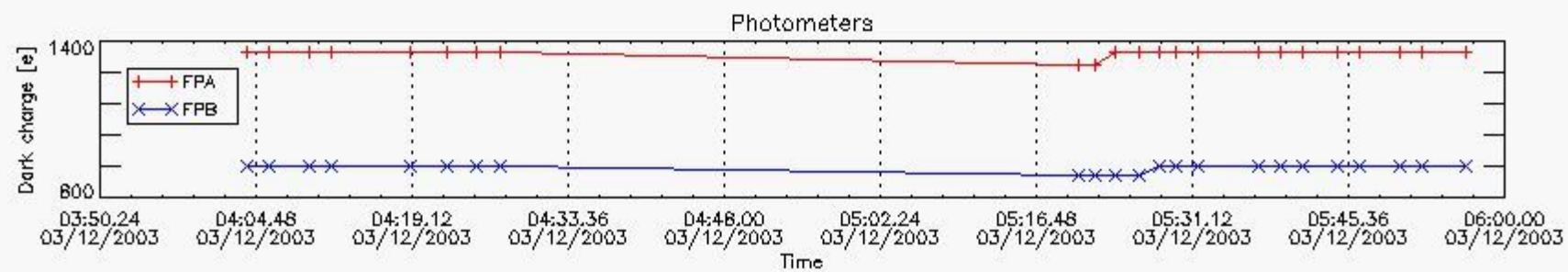
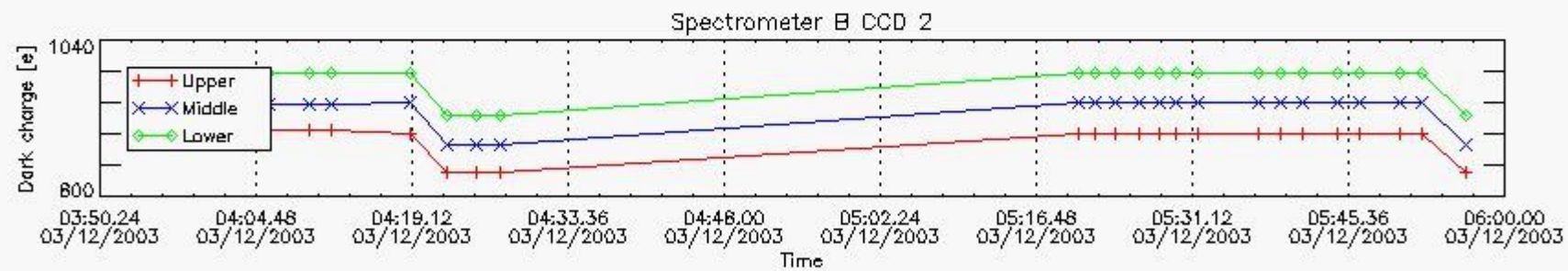
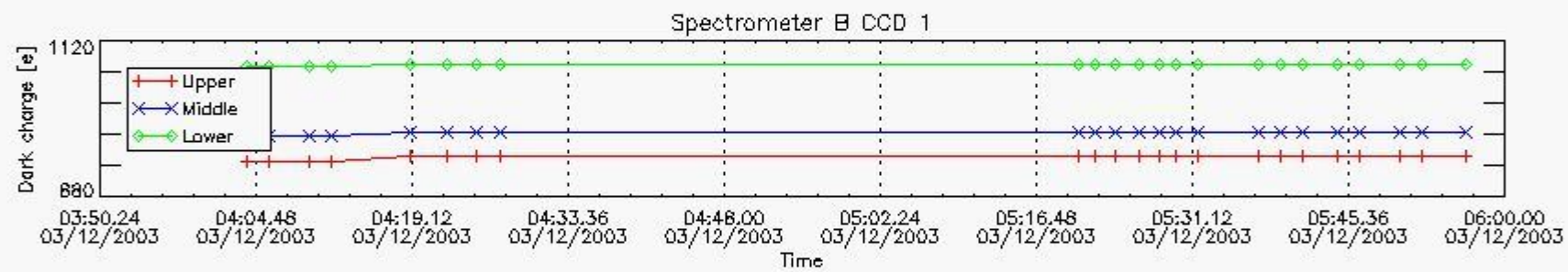
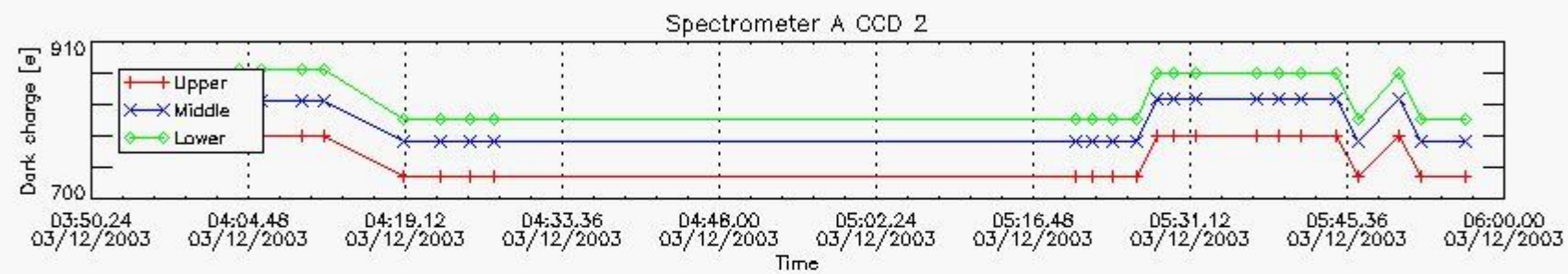
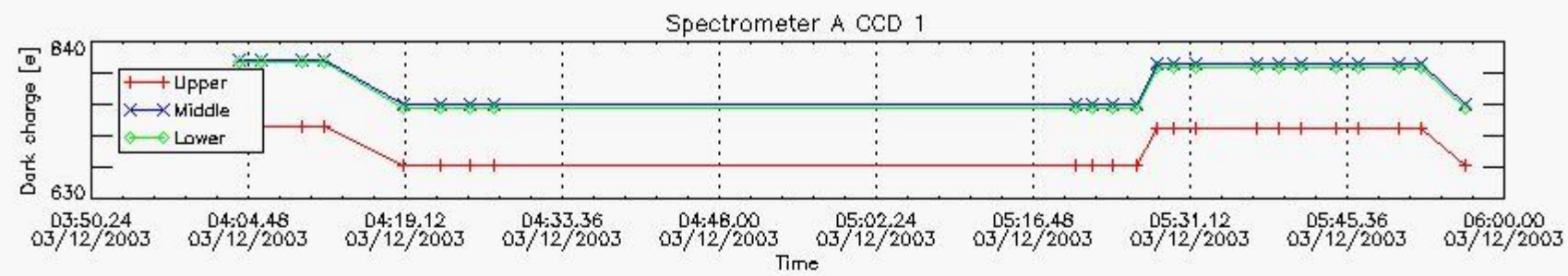
4. Overview of dark signal processing per product

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

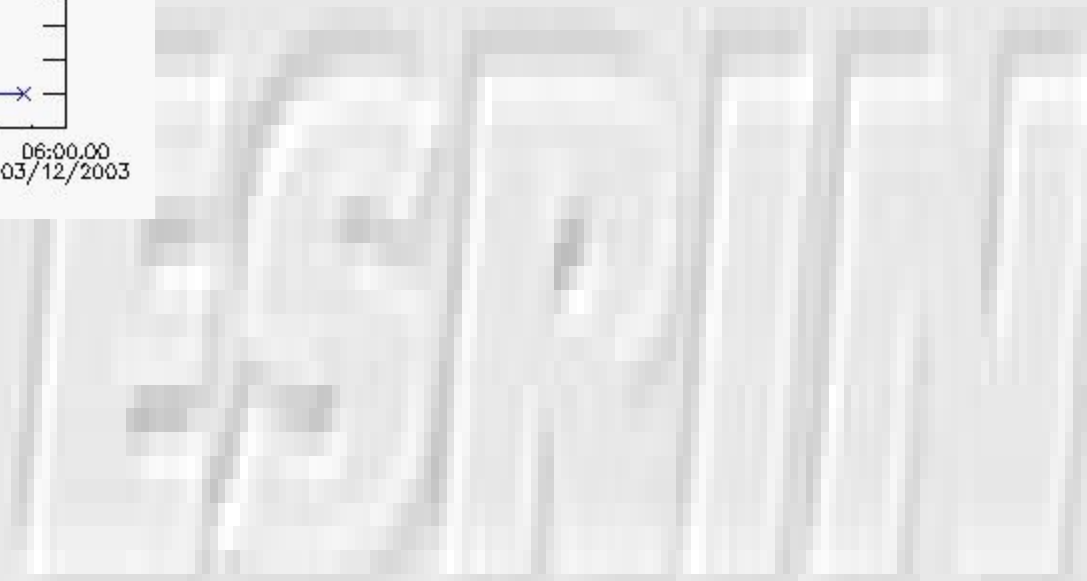
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



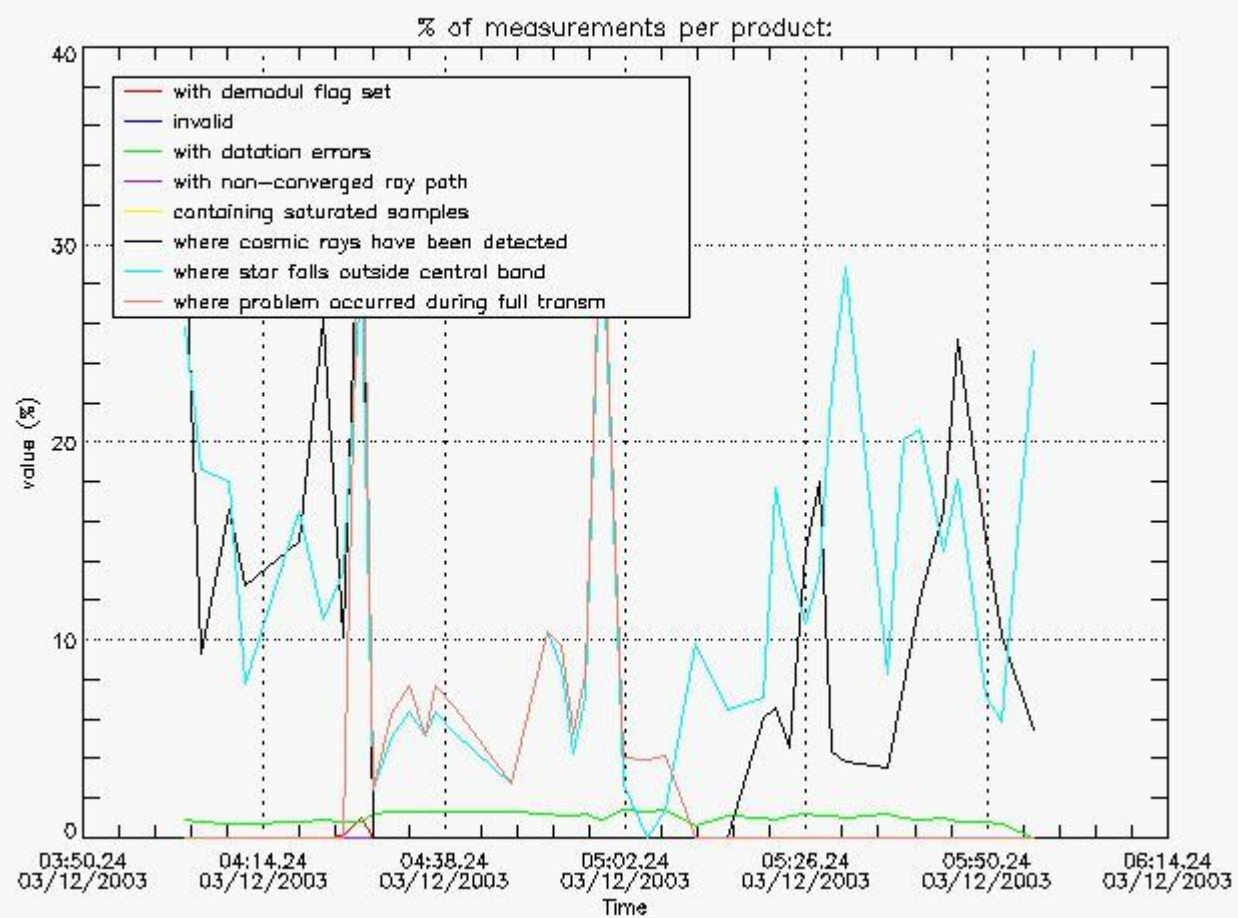
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.0000 %
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



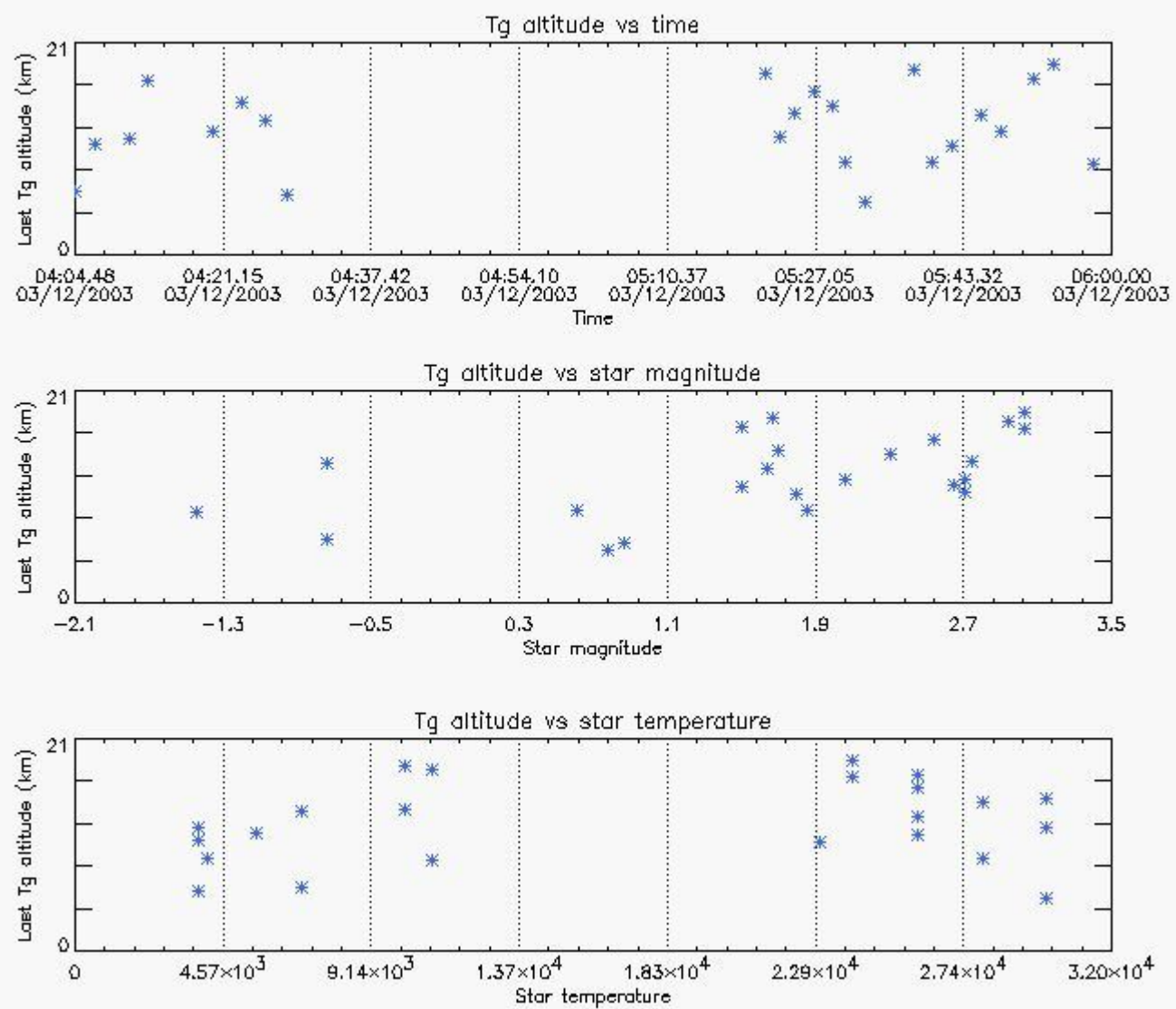
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	12.647	20.005
St. deviation:	4.0120	4.5473
Maximum:	18.762	24.185
Minimum:	5.2455	4.8154
Number of data:	23.000	17.000

6.2 Plot for DARK limb products

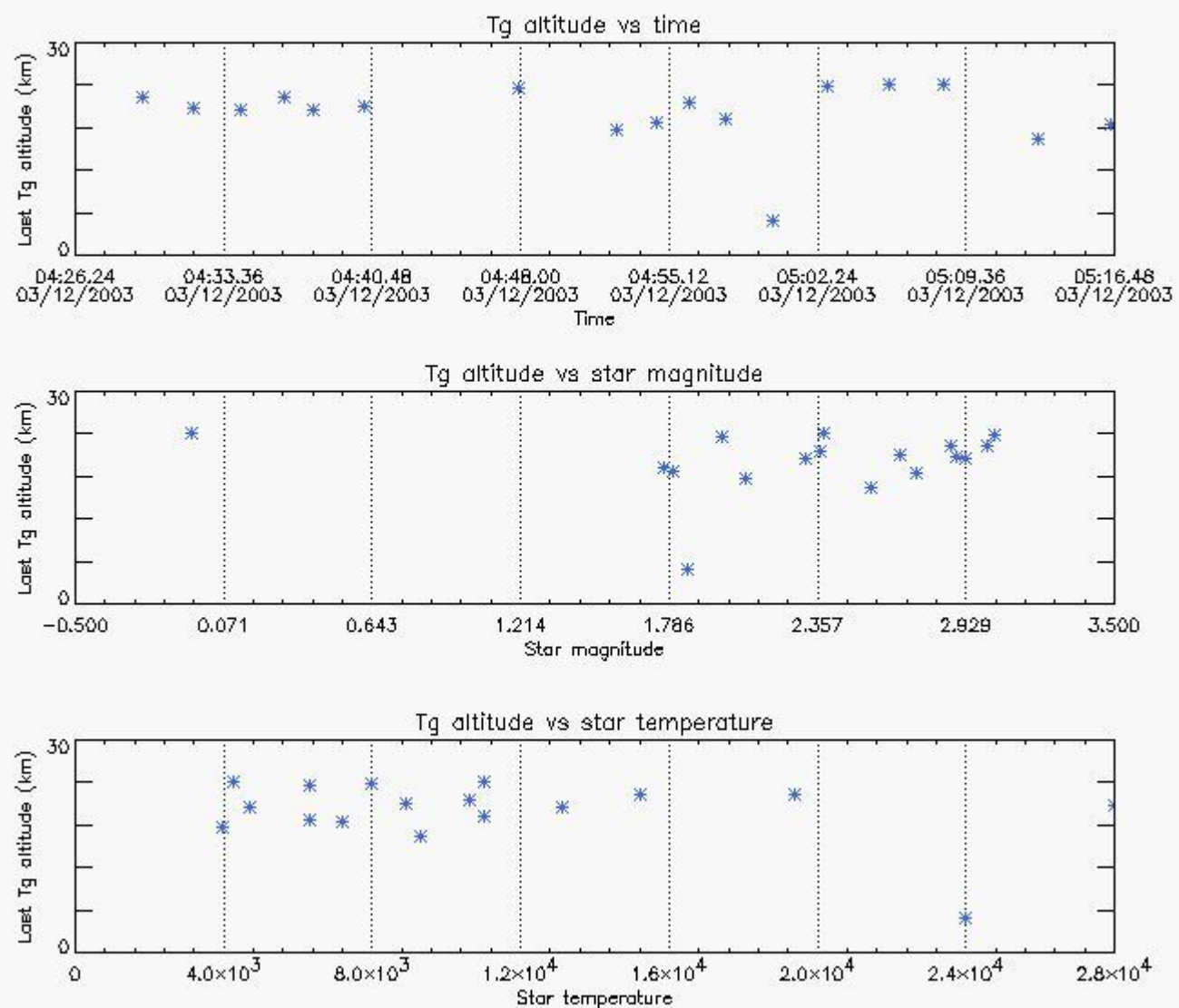
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



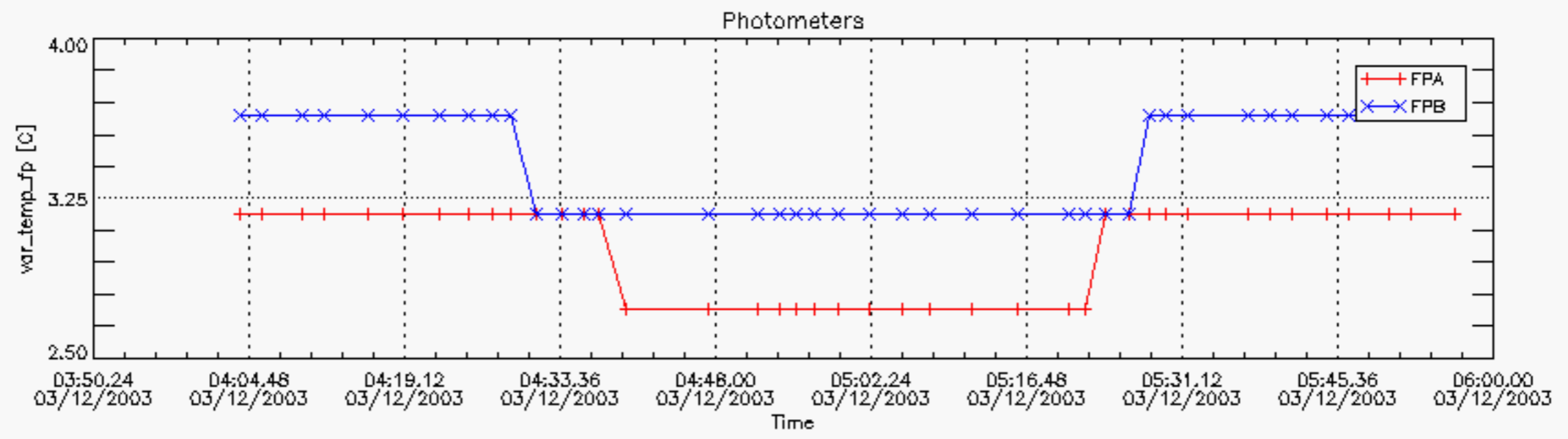
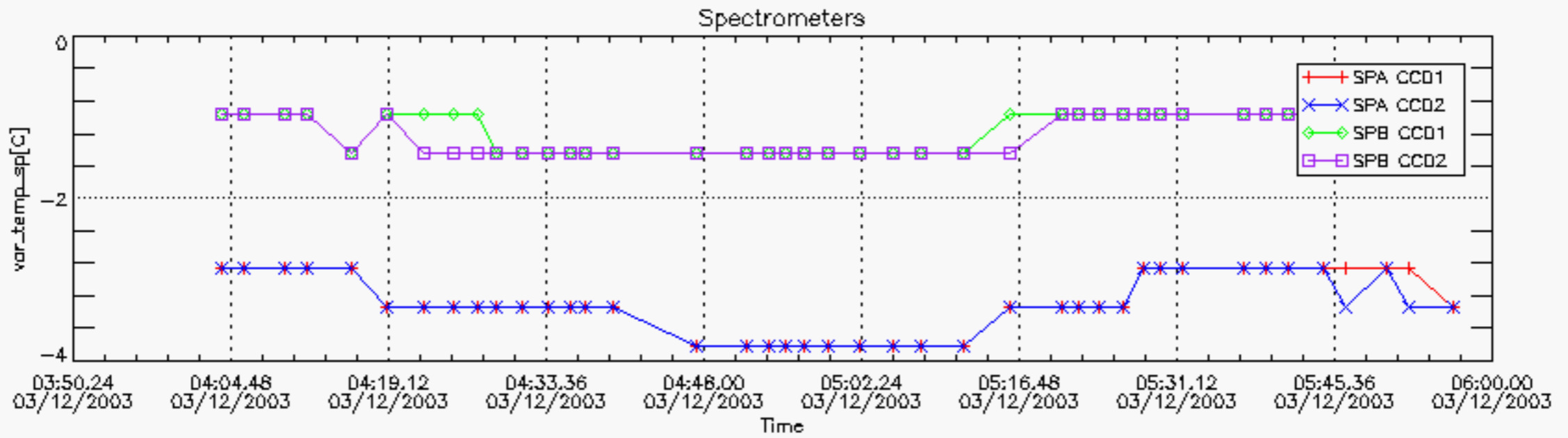
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

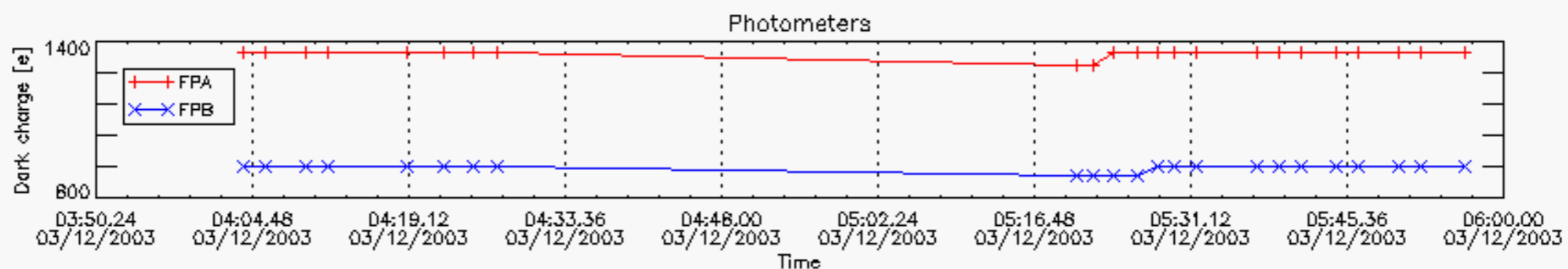
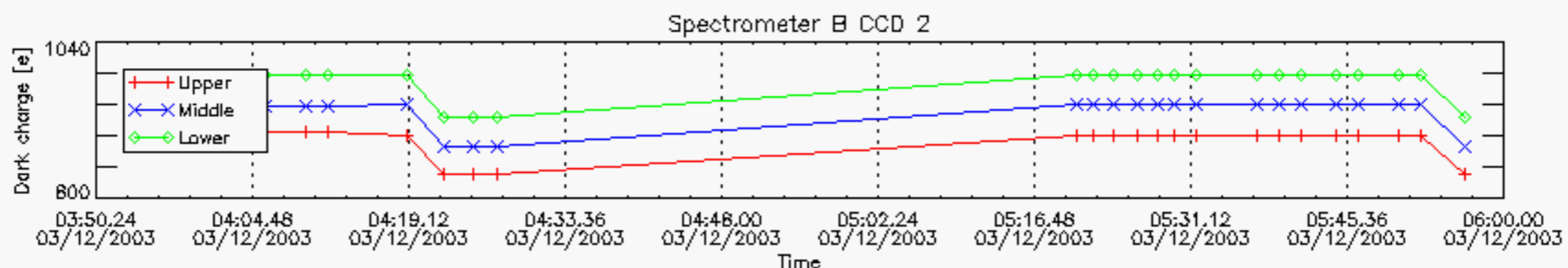
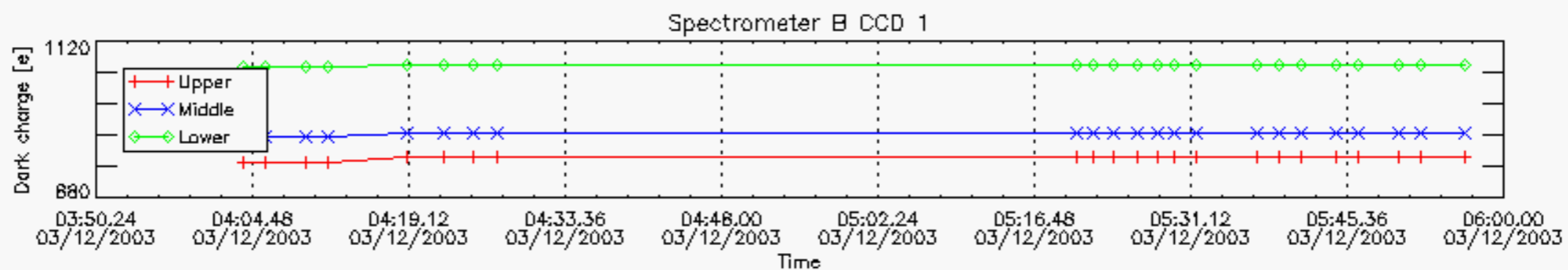
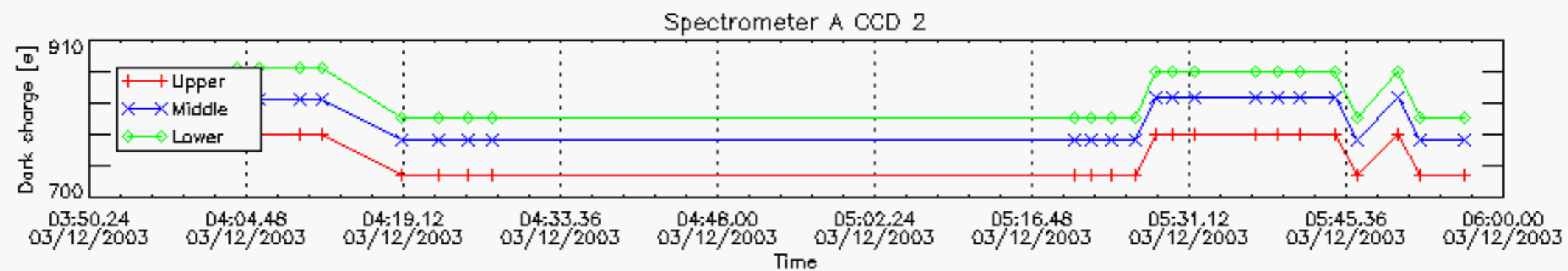
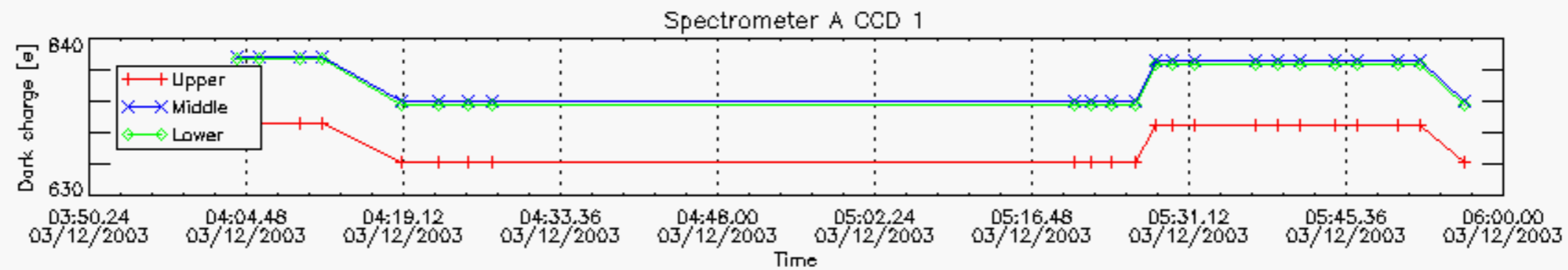
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

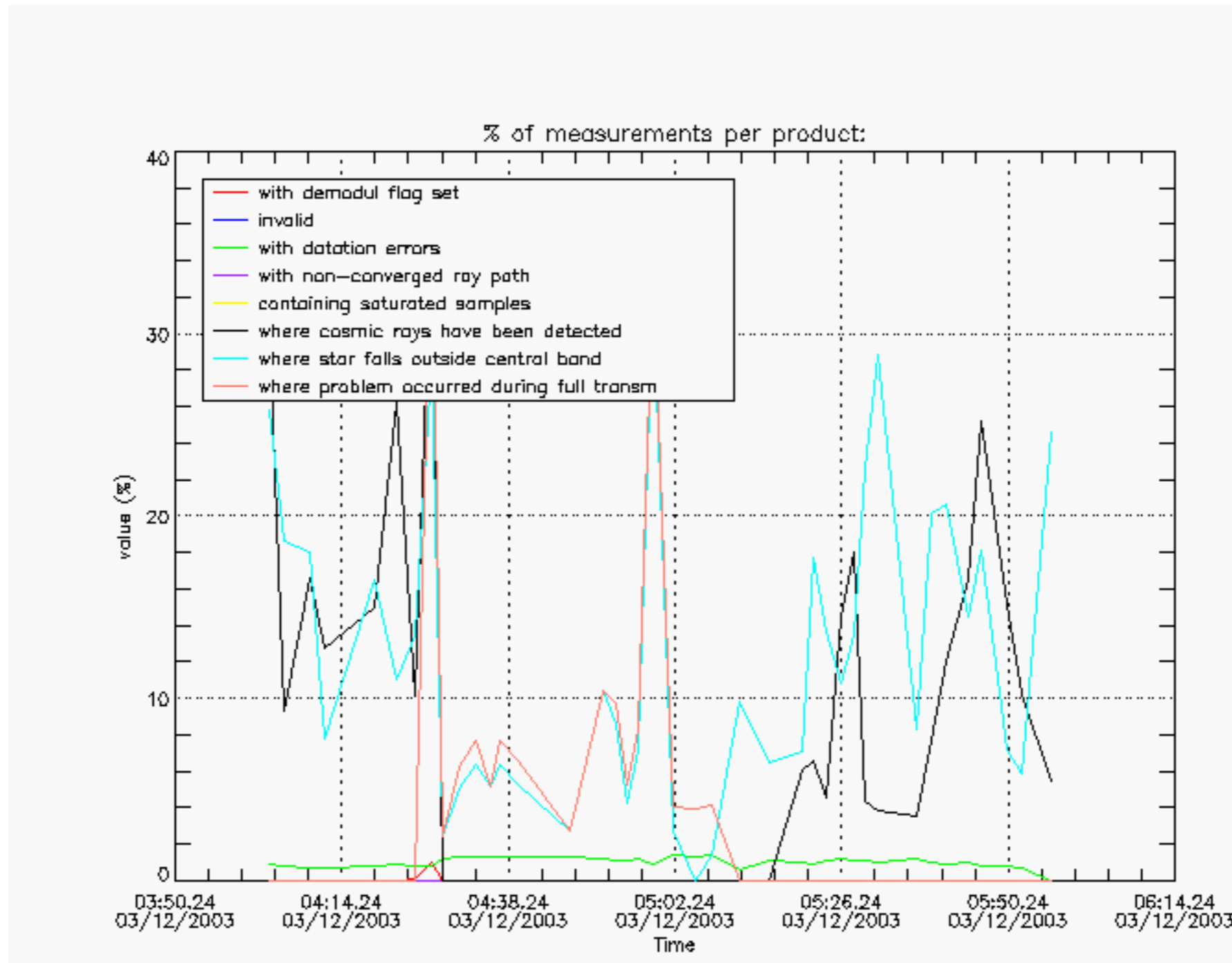
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.9	1448.5	1461.1	1447.8
St. deviation:	5.2710	6.7591	8.3291	10.032
Maximum:	1510.0	1504.0	1516.0	1502.0
Minimum:	1450.0	1443.0	1433.0	1421.0
Number of data:	31850.	31850.	20050.	20050.



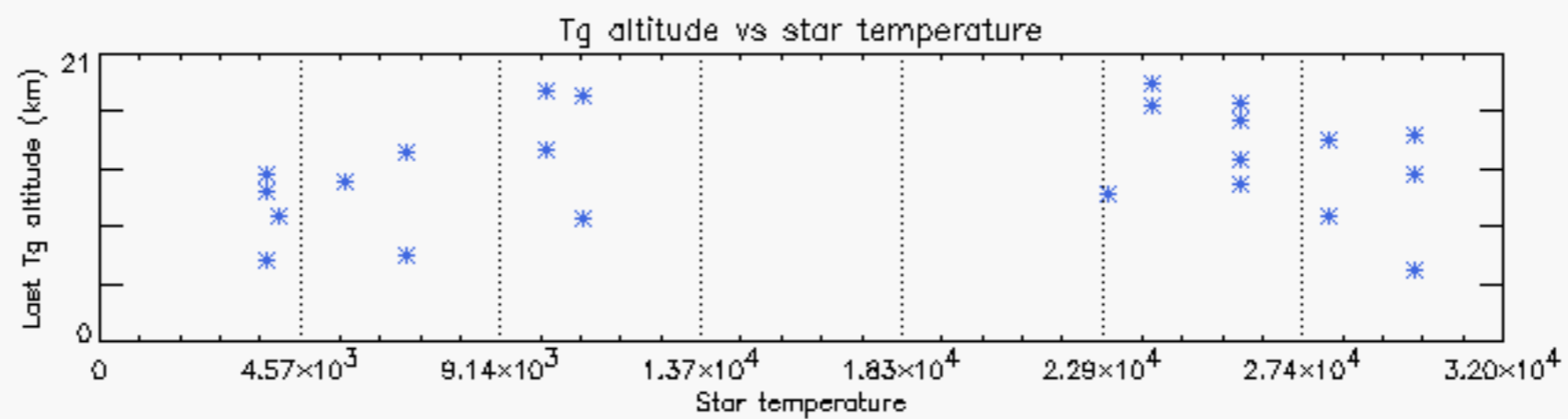
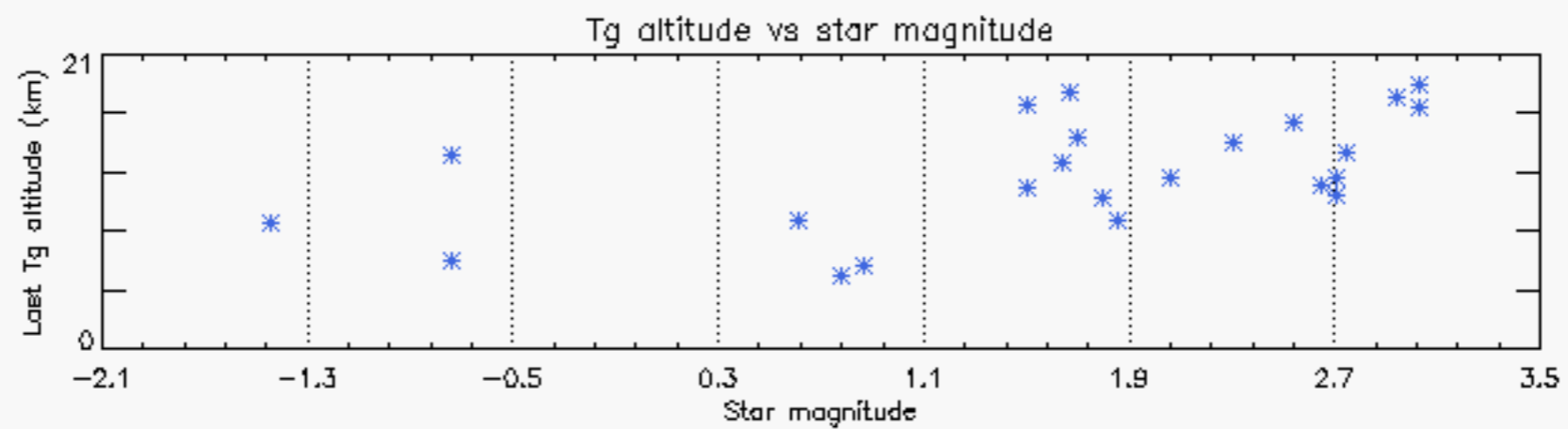
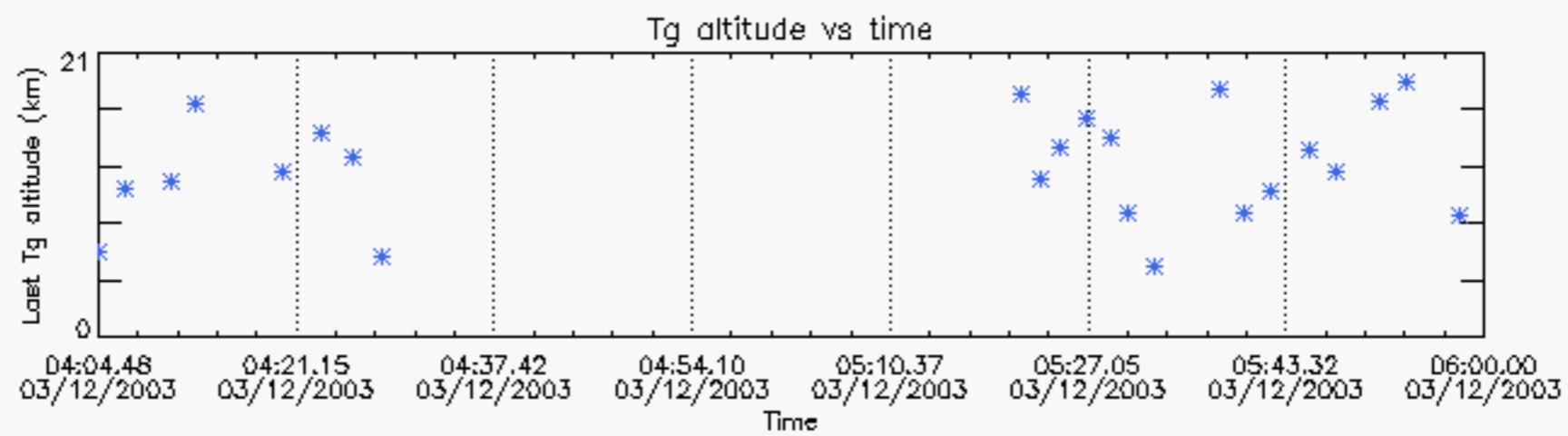




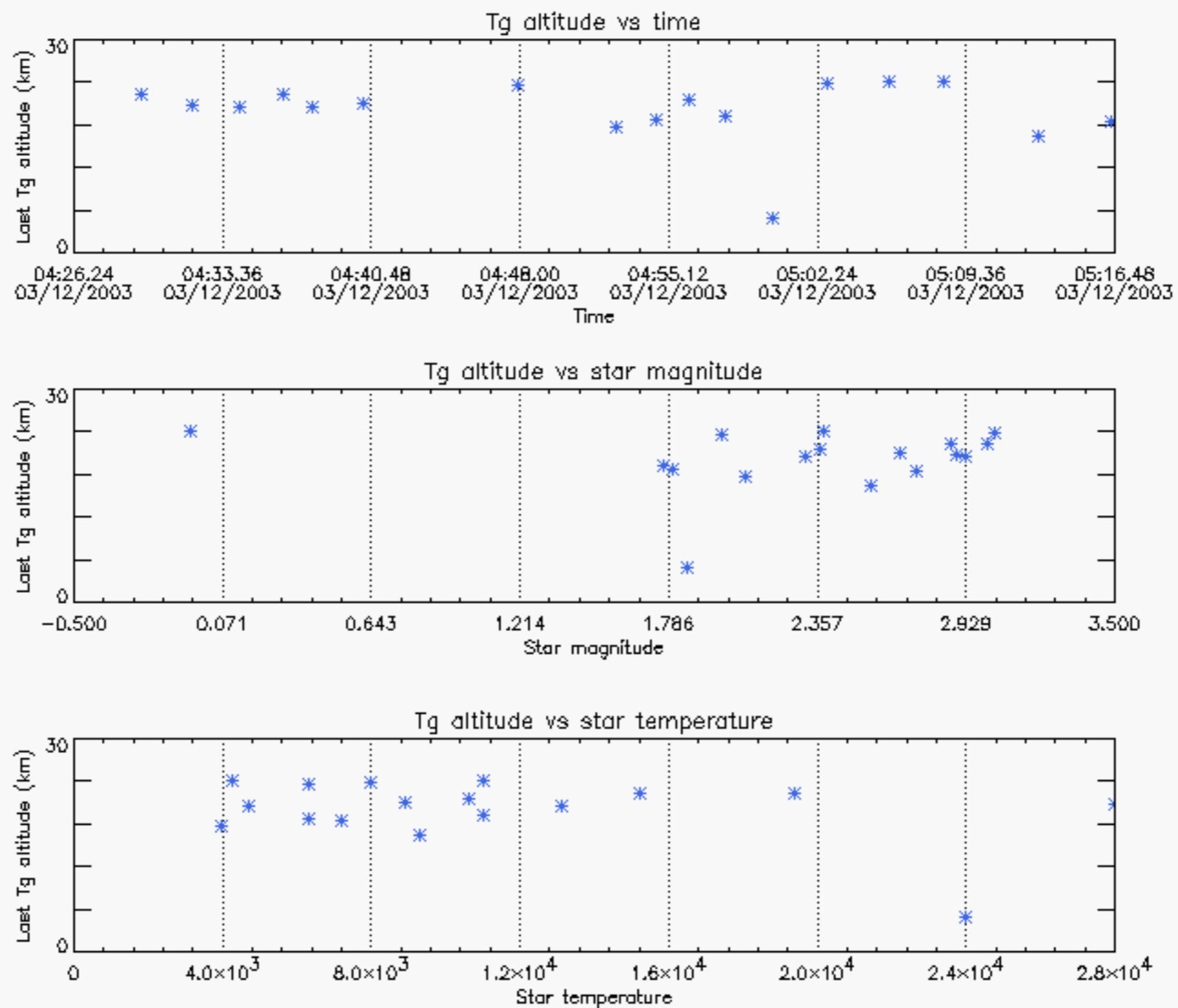




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL_0PNPDK20031201_052111_000061942022_00091_09163_0248.N1

1;-4379.2; 01-DEC-2003 05:21:11; Dark ; 45.0; 165; 34Gam Eri ; 2.95; 3200;occ; 90; 0; 9163
 2;-4285.0; 01-DEC-2003 05:22:45; Dark ; 62.5; 7; 19Bet Ori ; 0.10; 14000;occ; 125; 0; 9163
 3;-4102.1; 01-DEC-2003 05:25:48; Dark ; 64.0; 30; 46Eps Ori ; 1.69; 30000;occ; 128; 0; 9163
 4;-3938.0; 01-DEC-2003 05:28:32; Dark ; 63.0; 27; 24Gam Ori ; 1.64; 26000;occ; 126; 0; 9163
 5;-3804.3; 01-DEC-2003 05:30:46; Bright; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0; 9163
 6;-3708.7; 01-DEC-2003 05:32:21; Bright; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81; 0; 9163
 7;-3567.0; 01-DEC-2003 05:34:43; Bright; 41.5; 150; 44Zet Per ; 2.89; 28000;occ; 83; 0; 9163
 8;-3433.2; 01-DEC-2003 05:36:57; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0; 9163
 9;-3299.9; 01-DEC-2003 05:39:10; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77; 0; 9163
 10;-3219.4; 01-DEC-2003 05:40:31; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0; 9163
 11;-3080.2; 01-DEC-2003 05:42:50; Bright; 36.0; 110; 37Del Cas ; 2.68; 8900;occ; 72; 0; 9163
 12;-2616.4; 01-DEC-2003 05:50:34; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0; 9163
 13;-2335.8; 01-DEC-2003 05:55:14; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0; 9163
 14;-2215.0; 01-DEC-2003 05:57:15; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0; 9163
 15;-2118.3; 01-DEC-2003 05:58:52; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0; 9163
 16;-2022.8; 01-DEC-2003 06:00:27; Bright; 56.0; 32; 77Eps UMa ; 1.76; 11000;occ; 112; 0; 9163
 17;-1898.7; 01-DEC-2003 06:02:31; Bright; 53.0; 39; 85Eta UMa ; 1.85; 24000;occ; 106; 0; 9163
 18;-1724.9; 01-DEC-2003 06:05:25; Bright; 52.0; 180; 27Gam Boo ; 3.04; 8000;occ; 104; 0; 9163
 19;-1544.0; 01-DEC-2003 06:08:26; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0; 9163
 20;-1392.6; 01-DEC-2003 06:10:57; Bright; 35.5; 3; 16Alp Boo ; -0.05; 4250;occ; 71; 0; 9163
 21;-1177.5; 01-DEC-2003 06:14:32; Bright; 72.0; 96; 68Del Leo ; 2.56; 9300;occ; 144; 0; 9163
 22;-919.6; 01-DEC-2003 06:18:50; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0; 9163
 23;-832.0; 01-DEC-2003 06:20:18; Bright; 40.0; 15; 67Alp Vir ; 0.98; 28000;occ; 80; 0; 9163
 24;-635.0; 01-DEC-2003 06:23:35; Dark ; 48.0; 163; 7Del Crv ; 2.94; 11000;occ; 96; 0; 9163
 25;-537.6; 01-DEC-2003 06:25:12; Dark ; 50.0; 106; 9Bet Crv ; 2.65; 5600;occ; 100; 0; 9163
 26;-416.6; 01-DEC-2003 06:27:13; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0; 9163
 27;-174.4; 01-DEC-2003 06:31:16; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0; 9163
 28;-75.6; 01-DEC-2003 06:32:54; Dark ; 39.5; 10; Bet Cen ; 0.61; 28000;occ; 79; 0; 9163
 29; 39.6; 01-DEC-2003 06:34:50; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0; 9164
 30; 202.1; 01-DEC-2003 06:37:32; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0; 9164
 31; 335.6; 01-DEC-2003 06:39:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9164
 32; 481.9; 01-DEC-2003 06:42:12; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0; 9164
 33; 601.1; 01-DEC-2003 06:44:11; Dark ; 52.5; 34; Gam2Vel ; 1.79; 23000;occ; 105; 0; 9164
 34; 803.4; 01-DEC-2003 06:47:33; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0; 9164
 35; 914.2; 01-DEC-2003 06:49:24; Dark ; 66.0; 117; Pi Pup ; 2.71; 3800;occ; 132; 0; 9164
 36; 1144.0; 01-DEC-2003 06:53:14; Dark ; 67.0; 23; 21Eps CMa ; 1.50; 26000;occ; 134; 0; 9164
 37; 1273.4; 01-DEC-2003 06:55:23; Dark ; 75.5; 179; 240mi2CMa ; 3.03; 24000;occ; 151; 0; 9164
 38; 1503.1; 01-DEC-2003 06:59:13; Dark ; 67.0; 47; 2Bet CMa ; 1.98; 28000;occ; 134; 0; 9164
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 28; 202.5; 01-DEC-2003 08:18:08; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9165
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 34; 1144.7; 01-DEC-2003 08:33:51; Dark ; 69.0; 23; 21Eps CMa ; 1.50; 26000;occ; 138; 0; 9165
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 29; 341.4; 01-DEC-2003 10:01:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9166
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