

GOMOS Daily Report 10-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	11DEC2003 06:48:06
Data source version	<Any version>
Start time of products	10-DEC-2003 (10DEC2003 00:00:00)
Stop time of products	11-DEC-2003 (11DEC2003 00:00:00)
Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	1

2. Summary of products arrived in PCF

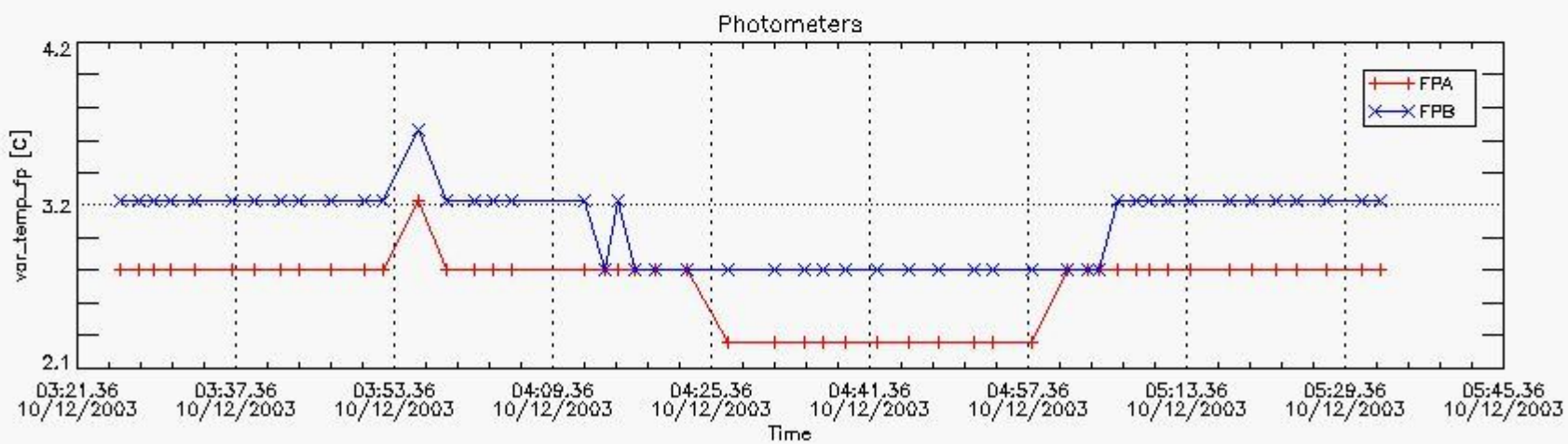
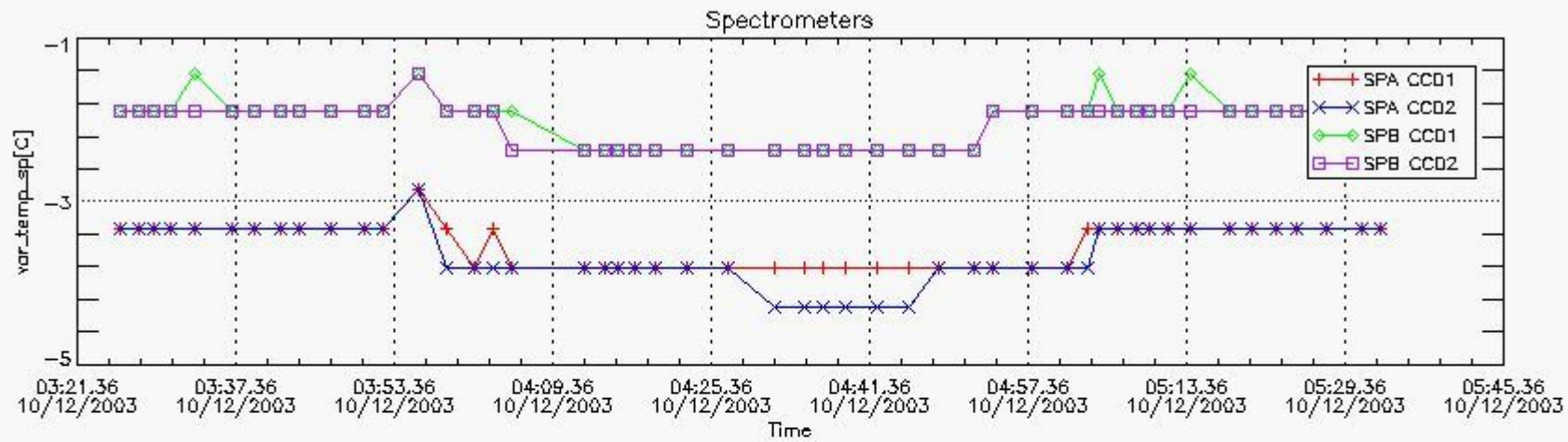
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20031210_032601_000000382022_00218_09290_0025.N1	10-DEC-2003 03:26:01	Dark	37.500	95	Zet Cen	2.5450	26000.	75	9290	No
GOM_TRA_1PNPDE20031210_032752_000000392022_00218_09290_0026.N1	10-DEC-2003 03:27:52	Dark	38.500	77	Eps Cen	2.3030	28000.	77	9290	No
GOM_TRA_1PNPDE20031210_032916_000000482022_00218_09290_0027.N1	10-DEC-2003 03:29:16	Dark	48.000	10	Bet Cen	0.61000	28000.	96	9290	No
GOM_TRA_1PNPDE20031210_033105_000000382022_00219_09291_0028.N1	10-DEC-2003 03:31:05	Dark	37.500	129	Del Cru	2.7930	26000.	75	9291	No
GOM_TRA_1PNPDE20031210_033322_000000442022_00219_09291_0029.N1	10-DEC-2003 03:33:22	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	9291	No
GOM_TRA_1PNPDE20031210_033715_000000392022_00219_09291_0030.N1	10-DEC-2003 03:37:15	Dark	38.500	29	Bet Car	1.6720	10200.	77	9291	No
GOM_TRA_1PNPDE20031210_033933_000000482022_00219_09291_0031.N1	10-DEC-2003 03:39:33	Dark	48.000	41	Eps Car	1.8600	4100.0	96	9291	No
GOM_TRA_1PNPDE20031210_034202_000000512022_00219_09291_0032.N1	10-DEC-2003 03:42:02	Dark	50.500	34	Gam2Vel	1.7930	23000.	101	9291	No
GOM_TRA_1PNPDE20031210_034403_000000512022_00219_09291_0033.N1	10-DEC-2003 03:44:03	Dark	51.000	70	Zet Pup	2.2460	39000.	102	9291	No
GOM_TRA_1PNPDE20031210_034706_000000582022_00219_09291_0034.N1	10-DEC-2003 03:47:06	Dark	57.500	117	Pi Pup	2.7060	3800.0	115	9291	No
GOM_TRA_1PNPDE20031210_035035_000000552022_00219_09291_0035.N1	10-DEC-2003 03:50:35	Dark	54.500	23	21Eps CMa	1.5020	26000.	109	9291	No
GOM_TRA_1PNPDE20031210_035231_000000612022_00219_09291_0036.N1	10-DEC-2003 03:52:31	Dark	61.000	179	24Omi2CMa	3.0320	24000.	122	9291	No
GOM_TRA_1PNPDE20031210_035558_000000752022_00219_09291_0000.N1	10-DEC-2003 03:55:58	Dark	74.500	1	9Alp CMa	-1.4400	11000.	149	9291	Yes
GOM_TRA_1PNPDE20031210_035853_000000532022_00219_09291_0001.N1	10-DEC-2003 03:58:53	Dark	53.000	56	53Kap Ori	2.0650	30000.	106	9291	No
GOM_TRA_1PNPDE20031210_040139_000000542022_00219_09291_0002.N1	10-DEC-2003 04:01:39	Dark	53.500	33	50Zet Ori	1.7660	30000.	107	9291	No
GOM_TRA_1PNPDE20031210_040332_000000432022_00219_09291_0003.N1	10-DEC-2003 04:03:32	Dark	43.000	94	92Alp Cet	2.5260	3100.0	86	9291	No
GOM_TRA_1PNPDE20031210_040526_000000682022_00219_09291_0004.N1	10-DEC-2003 04:05:26	Dark	68.000	14	58Alp Ori	0.87000	3000.0	136	9291	No
GOM_TRA_1PNPDE20031210_041246_000000342022_00219_09291_0005.N1	10-DEC-2003 04:12:46	Bright	34.000	173	4Bet Tri	3.0040	8900.0	68	9291	No
GOM_TRA_1PNPDE20031210_041448_000000382022_00219_09291_0006.N1	10-DEC-2003 04:14:48	Bright	37.500	73	57Gam1And	2.2600	13100.	75	9291	No
GOM_TRA_1PNPDE20031210_041608_000000332022_00219_09291_0007.N1	10-DEC-2003 04:16:08	Bright	33.000	35	33Alp Per	1.7950	6250.0	66	9291	No
GOM_TRA_1PNPDE20031210_041747_000000422022_00219_09291_0008.N1	10-DEC-2003 04:17:47	Bright	42.000	42	34Bet Aur	1.9000	10200.	84	9291	No
GOM_TRA_1PNPDE20031210_042002_000000342022_00219_09291_0009.N1	10-DEC-2003 04:20:02	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	9291	No
GOM_TRA_1PNPDE20031210_042304_000000992022_00219_09291_0010.N1	10-DEC-2003 04:23:04	Bright	98.500	24	66Alp Gem	1.5800	10200.	197	9291	No
GOM_TRA_1PNPDE20031210_042714_000000322022_00219_09291_0011.N1	10-DEC-2003 04:27:14	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	9291	No
GOM_TRA_1PNPDE20031210_043158_000000372022_00219_09291_0012.N1	10-DEC-2003 04:31:58	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	9291	No
GOM_TRA_1PNPDE20031210_043457_000000392022_00219_09291_0013.N1	10-DEC-2003 04:34:57	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	9291	No
GOM_TRA_1PNPDE20031210_043652_000000402022_00219_09291_0014.N1	10-DEC-2003 04:36:52	Bright	39.500	32	77Eps UMa	1.7630	11000.	79	9291	No
GOM_TRA_1PNPDE20031210_043913_000000352022_00219_09291_0015.N1	10-DEC-2003 04:39:13	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	9291	No
GOM_TRA_1PNPDE20031210_044221_000000352022_00219_09291_0016.N1	10-DEC-2003 04:42:21	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	9291	No
GOM_TRA_1PNPDE20031210_044527_000000342022_00219_09291_0017.N1	10-DEC-2003 04:45:27	Bright	34.000	83		2.3780	11000.	68	9291	No
GOM_TRA_1PNPDE20031210_044837_000000382022_00219_09291_0018.N1	10-DEC-2003 04:48:37	Bright	38.000	111	8Eta Boo	2.6800	6000.0	76	9291	No
GOM_TRA_1PNPDE20031210_045208_000000662022_00219_09291_0019.N1	10-DEC-2003 04:52:08	Bright	66.000	138	47Eps Vir	2.8280	4700.0	132	9291	No
GOM_TRA_1PNPDE20031210_045406_000000832022_00219_09291_0020.N1	10-DEC-2003 04:54:06	Dark	83.000	62	94Bet Leo	2.1360	9700.0	166	9291	No
GOM_TRA_1PNPDE20031210_045800_000000462022_00219_09291_0021.N1	10-DEC-2003 04:58:00	Dark	45.500	15	67Alp Vir	0.97600	28000.	91	9291	No
GOM_TRA_1PNPDE20031210_050128_000000462022_00219_09291_0022.N1	10-DEC-2003 05:01:28	Dark	46.000	169	46Gam Hya	2.9910	4700.0	92	9291	No
GOM_TRA_1PNPDE20031210_050333_000000442022_00219_09291_0023.N1	10-DEC-2003 05:03:33	Dark	43.500	54	5The Cen	2.0550	4500.0	87	9291	No
GOM_TRA_1PNPDE20031210_050450_000000432022_00219_09291_0024.N1	10-DEC-2003 05:04:50	Dark	43.000	123	1ot Cen	2.7500	10200.	86	9291	No
GOM_TRA_1PNPDE20031210_050637_000000402022_00219_09291_0025.N1	10-DEC-2003 05:06:37	Dark	39.500	95	Zet Cen	2.5450	26000.	79	9291	No
GOM_TRA_1PNPDE20031210_050829_000000382022_00219_09291_0026.N1	10-DEC-2003 05:08:29	Dark	37.500	77	Eps Cen	2.3030	28000.	75	9291	No
GOM_TRA_1PNPDE20031210_050953_000000462022_00219_09291_0027.N1	10-DEC-2003 05:09:53	Dark	46.000	10	Bet Cen	0.61000	28000.	92	9291	No
GOM_TRA_1PNPDE20031210_051142_000000372022_00220_09292_0028.N1	10-DEC-2003 05:11:42	Dark	37.000	129	Del Cru	2.7930	26000.	74	9292	No
GOM_TRA_1PNPDE20031210_051359_000000542022_00220_09292_0029.N1	10-DEC-2003 05:13:59	Dark	54.000	113	Mu Vel	2.6920	5000.0	108	9292	No
GOM_TRA_1PNPDE20031210_051752_000000372022_00220_09292_0030.N1	10-DEC-2003 05:17:52	Dark	37.000	29	Bet Car	1.6720	10200.	74	9292	No
GOM_TRA_1PNPDE20031210_052010_000000452022_00220_09292_0031.N1	10-DEC-2003 05:20:10	Dark	44.500	41	Eps Car	1.8600	4100.0	89	9292	No
GOM_TRA_1PNPDE20031210_052239_000000492022_00220_09292_0032.N1	10-DEC-2003 05:22:39	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	9292	No
GOM_TRA_1PNPDE20031210_052440_000000512022_00220_09292_0033.N1	10-DEC-2003 05:24:40	Dark	51.000	70	Zet Pup	2.2460	39000.	102	9292	No
GOM_TRA_1PNPDE20031210_052743_000000592022_00220_09292_0034.N1	10-DEC-2003 05:27:43	Dark	58.500	117	Pi Pup	2.7060	3800.0	117	9292	No
GOM_TRA_1PNPDE20031210_053112_000000632022_00220_09292_0035.N1	10-DEC-2003 05:31:12	Dark	63.000	23	21Eps CMa	1.5020	26000.	126	9292	No
GOM_TRA_1PNPDE20031210_053308_000000602022_00220_09292_0036.N1	10-DEC-2003 05:33:08	Dark	60.000	179	24Omi2CMa	3.0320	24000.	120	9292	No

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



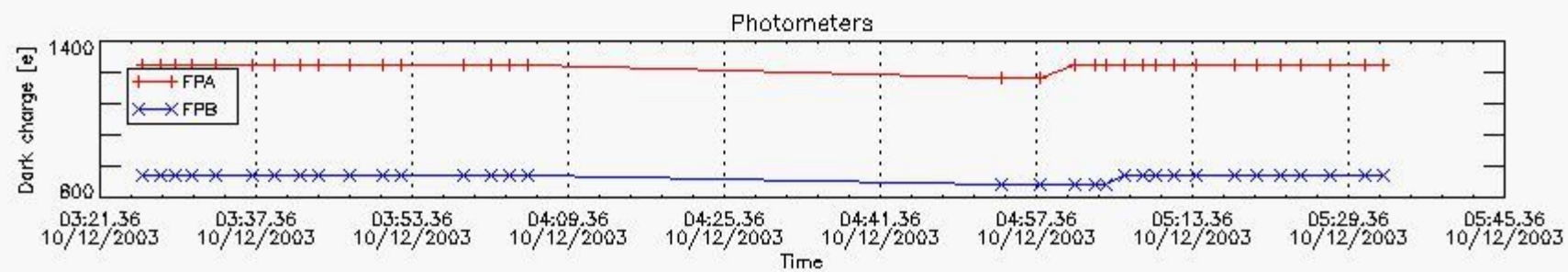
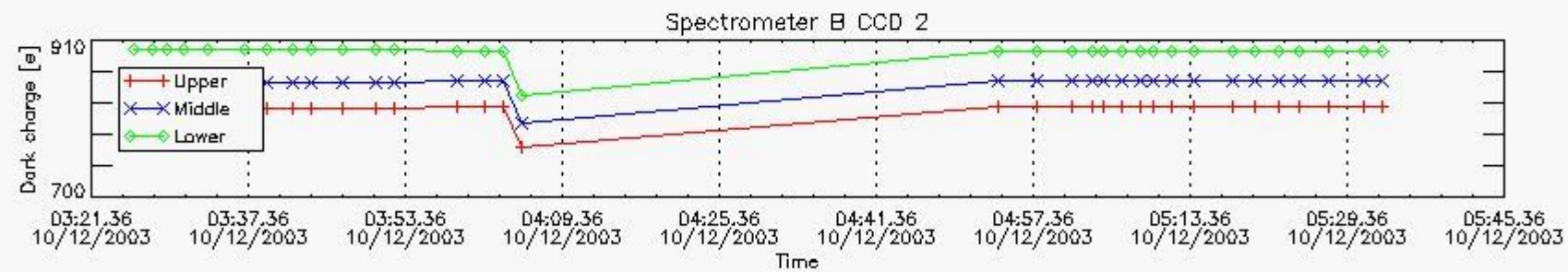
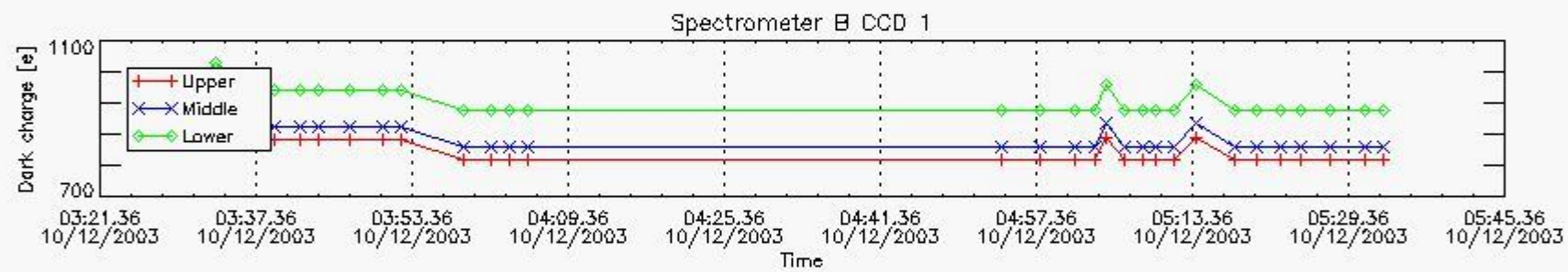
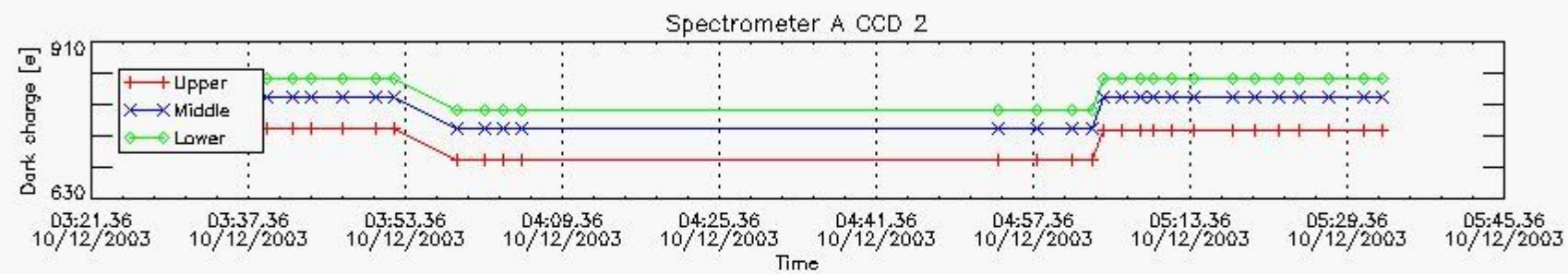
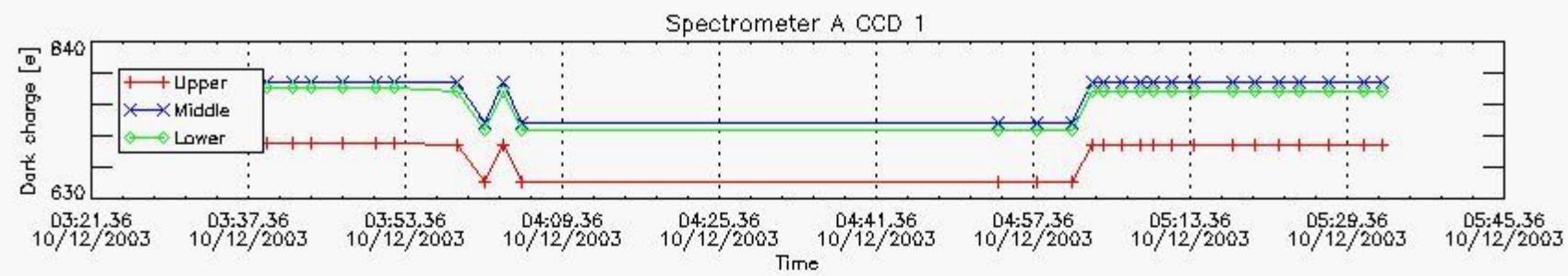
4. Overview of dark signal processing per product

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

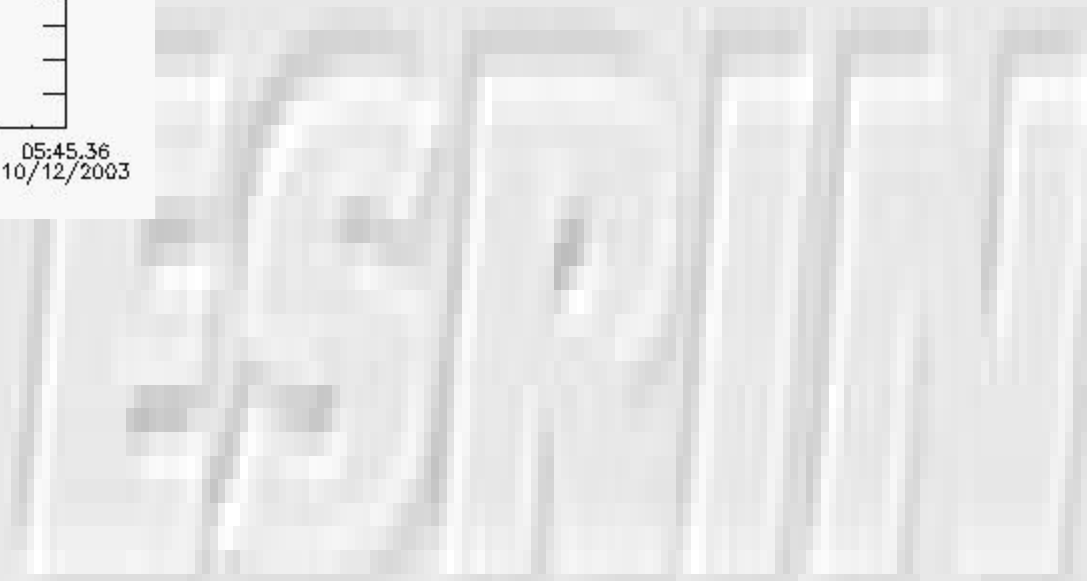
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



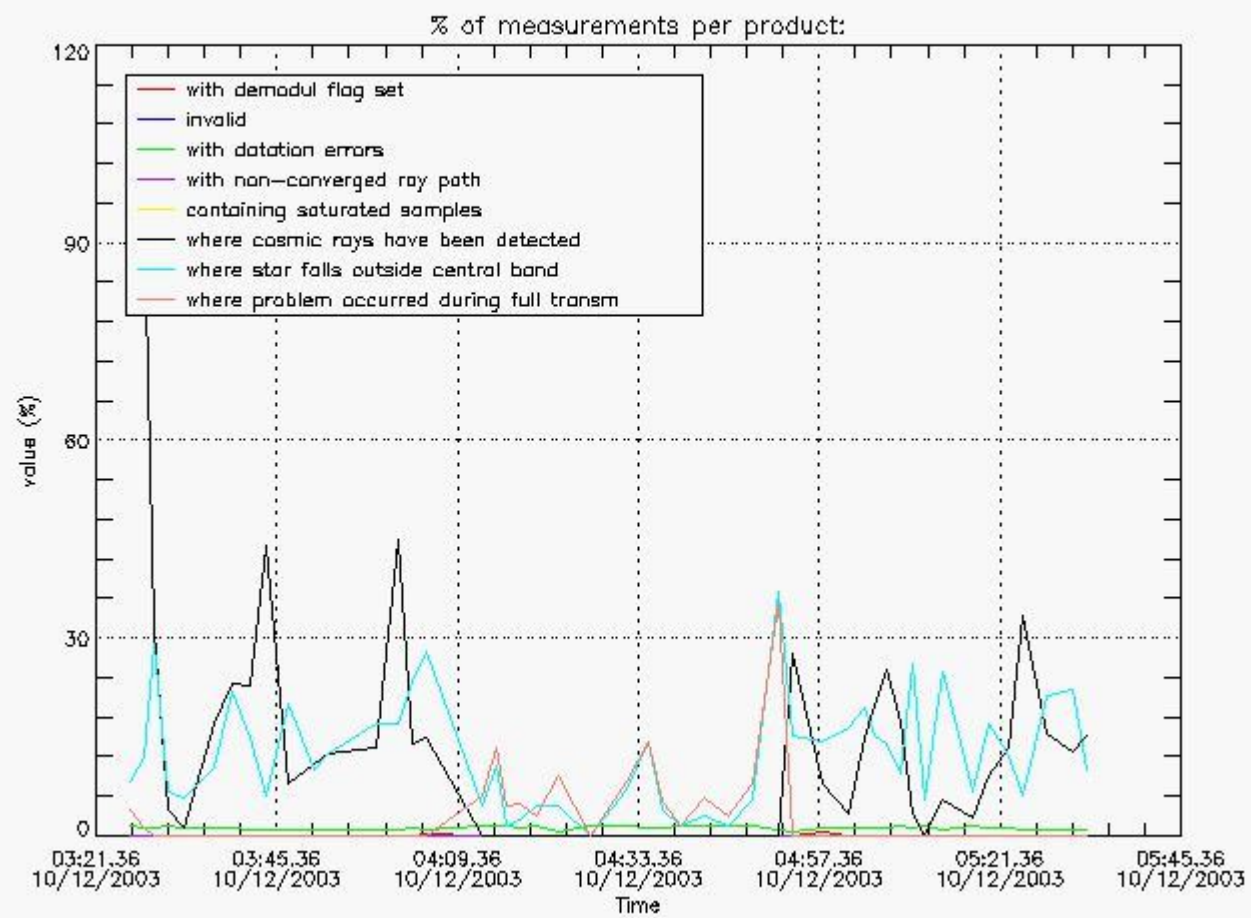
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.5000 %
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



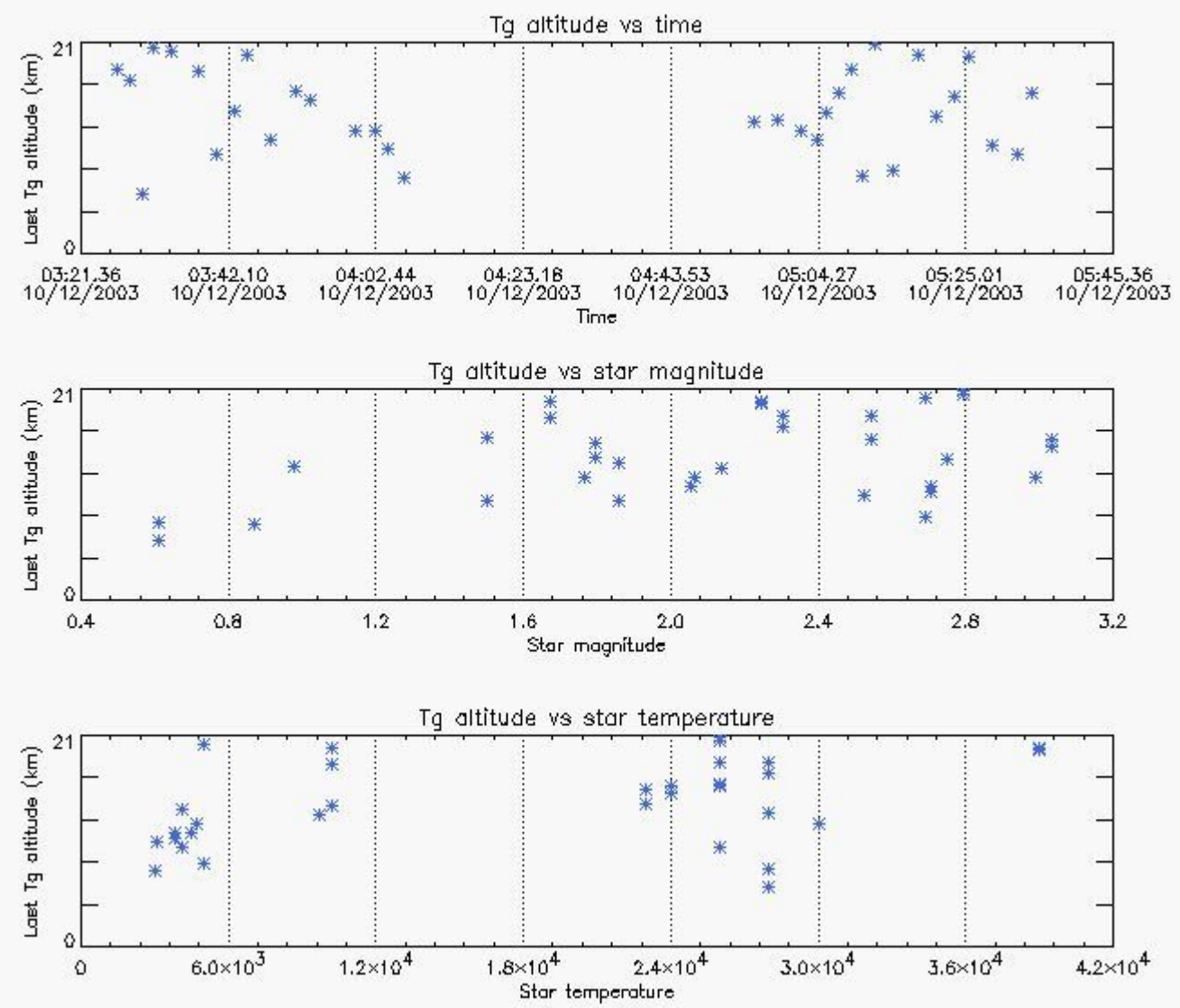
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

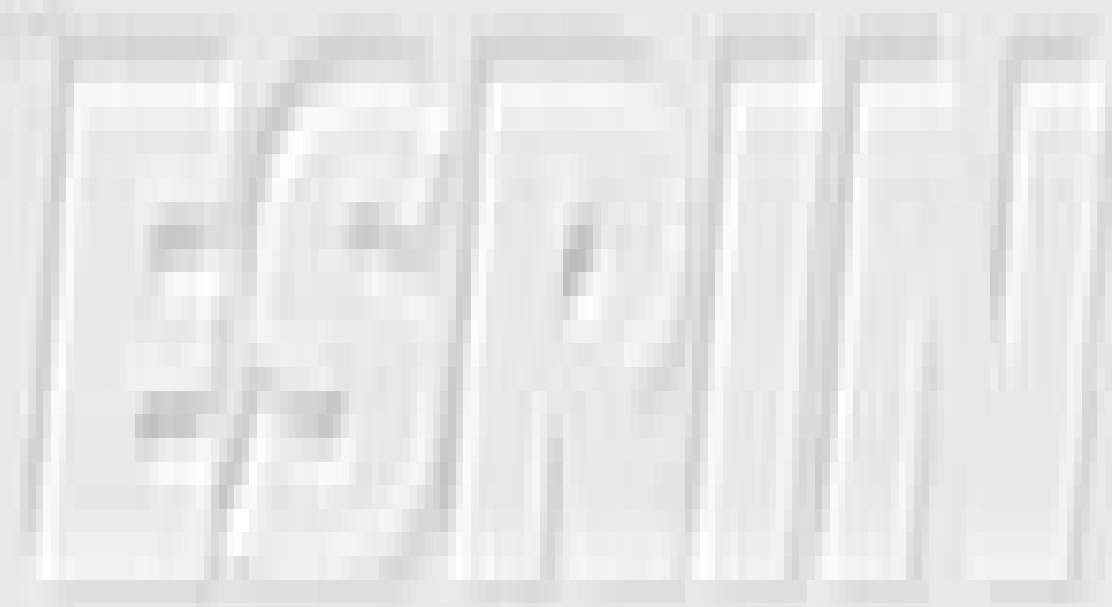
Statistics	DARK	BRIGHT
Mean:	14.209	20.901
St. deviation:	4.2103	5.7566
Maximum:	20.792	27.997
Minimum:	5.9280	3.8038
Number of data:	33.000	15.000

6.2 Plot for DARK limb products

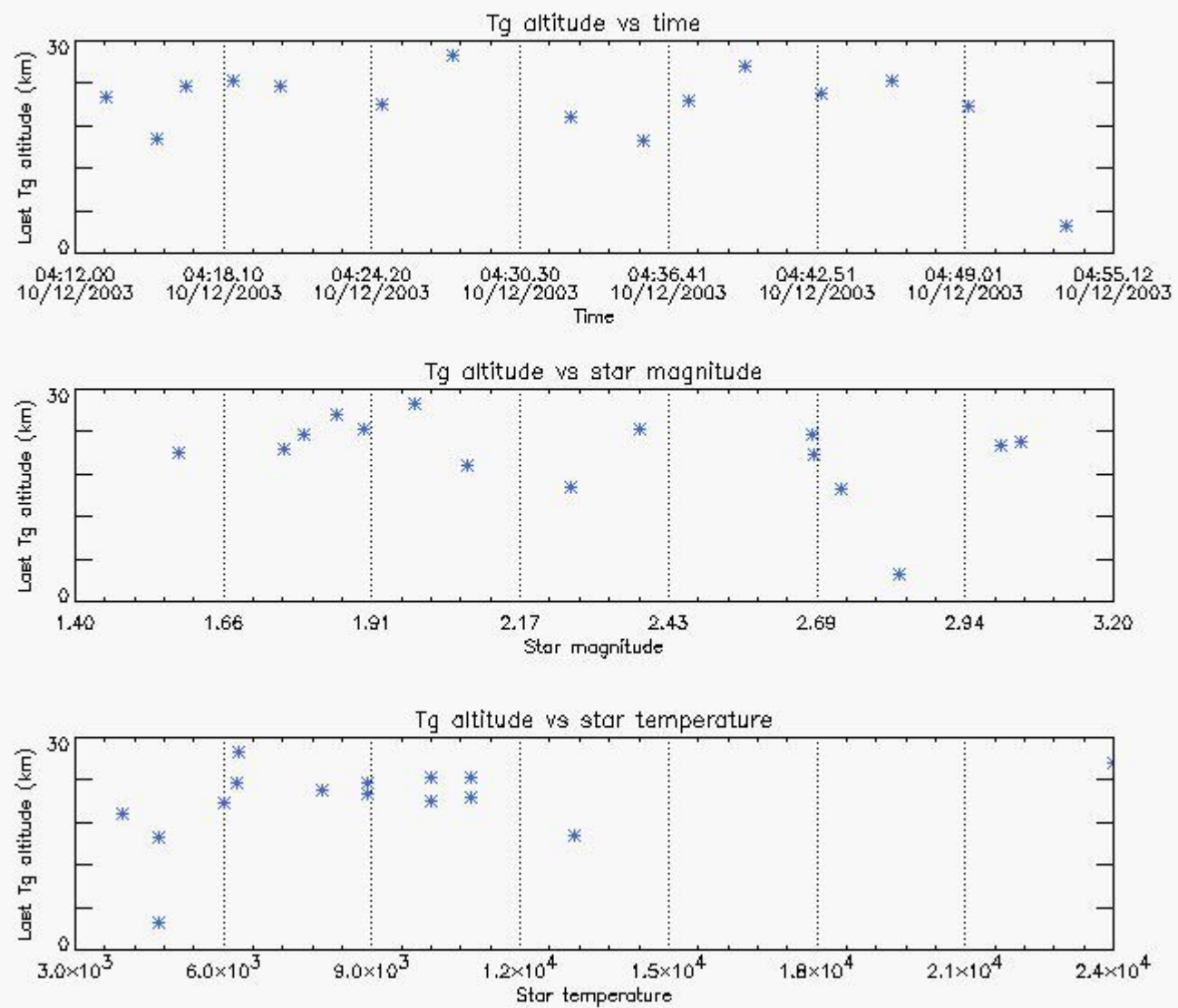
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost

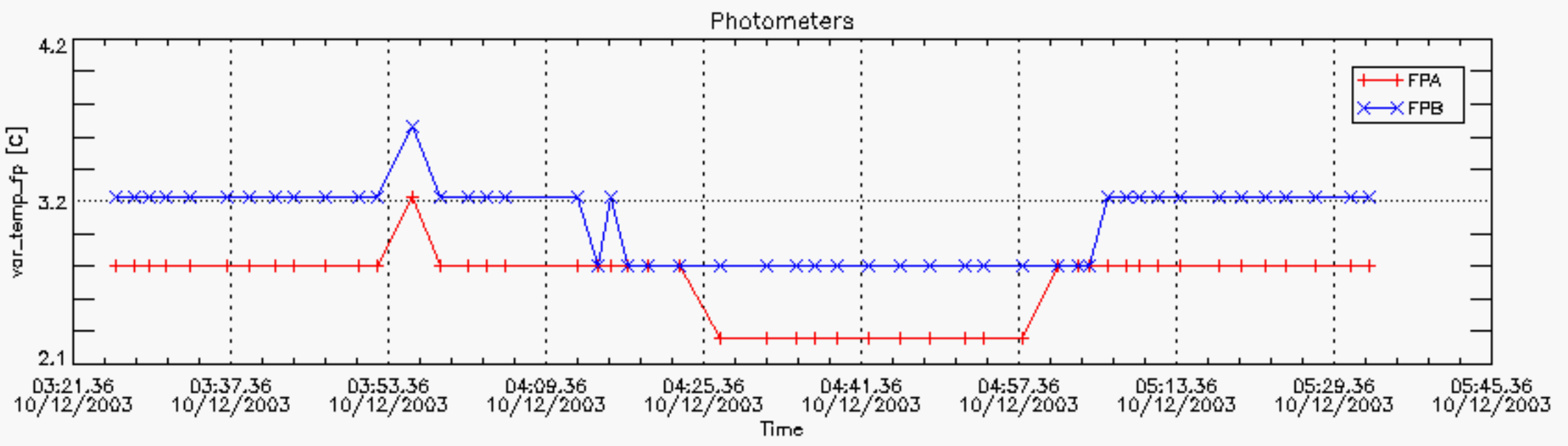
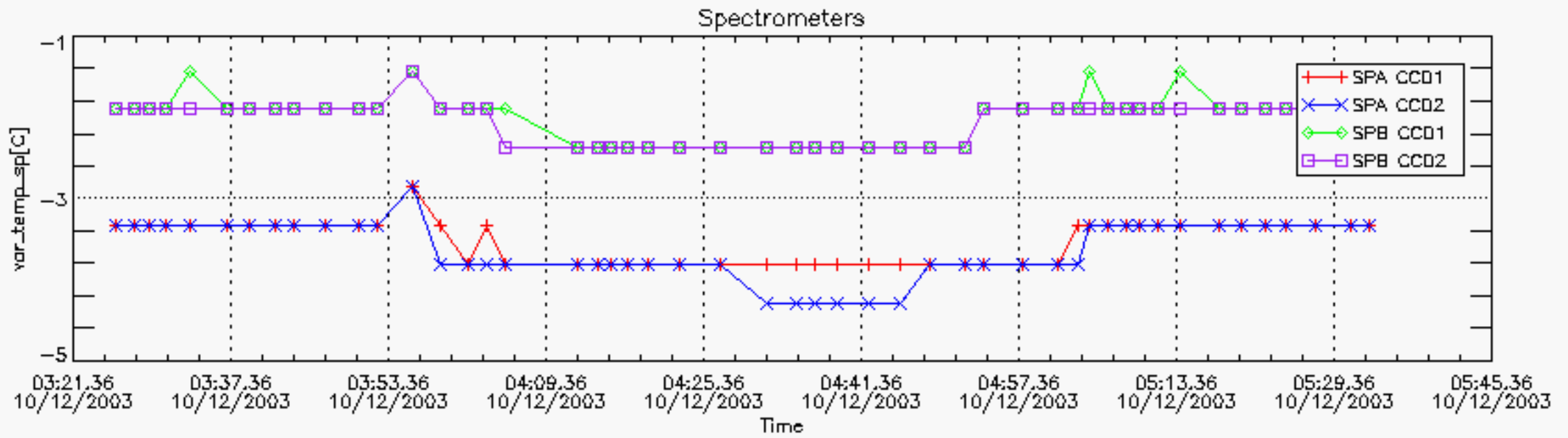


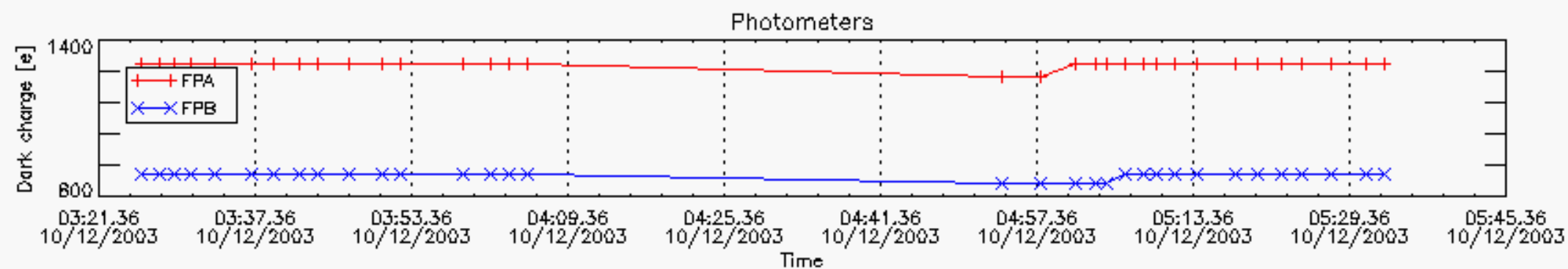
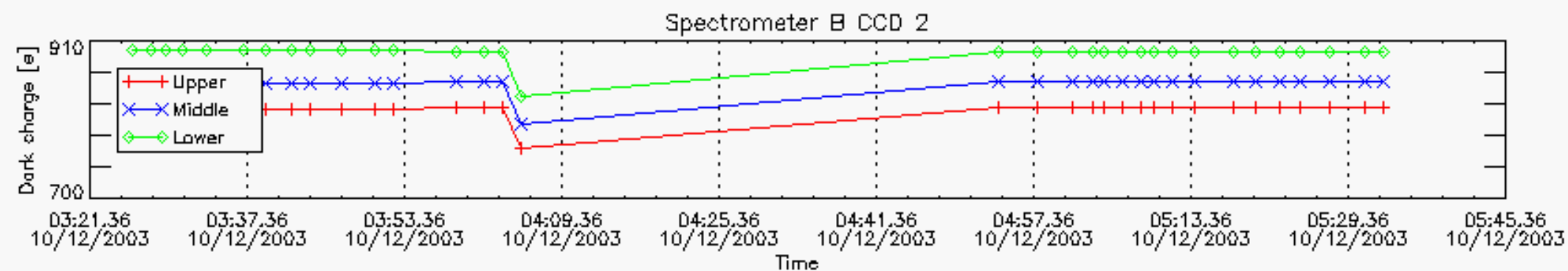
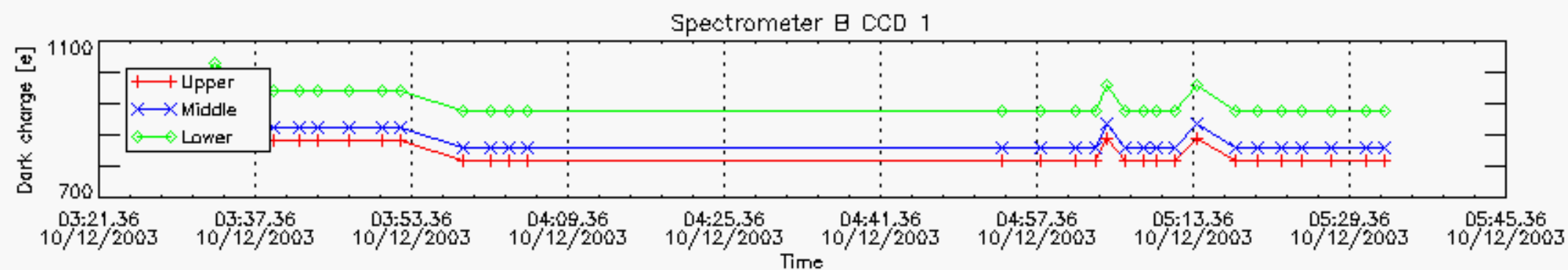
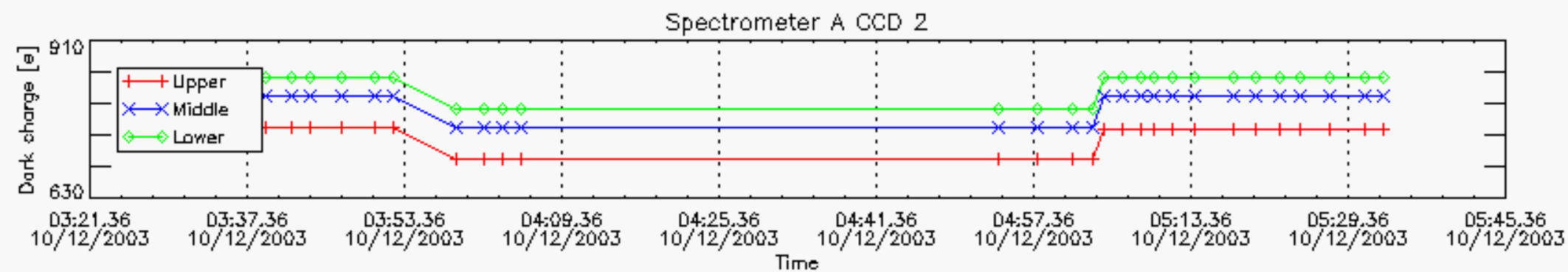
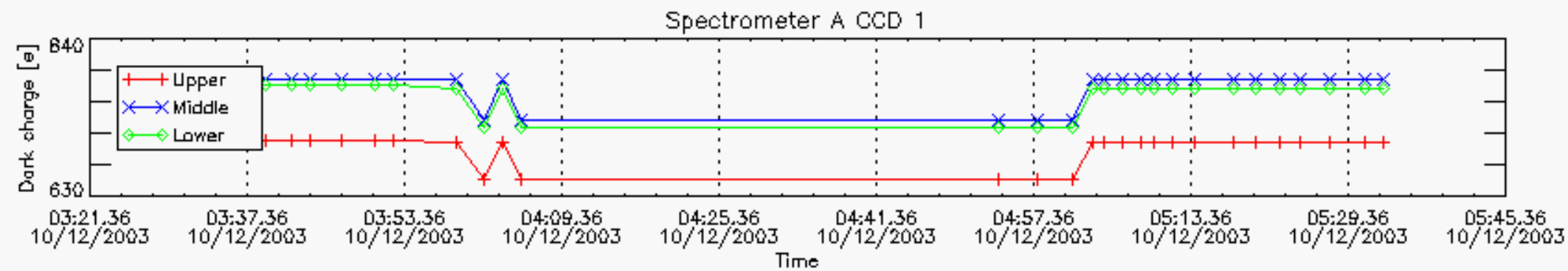
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

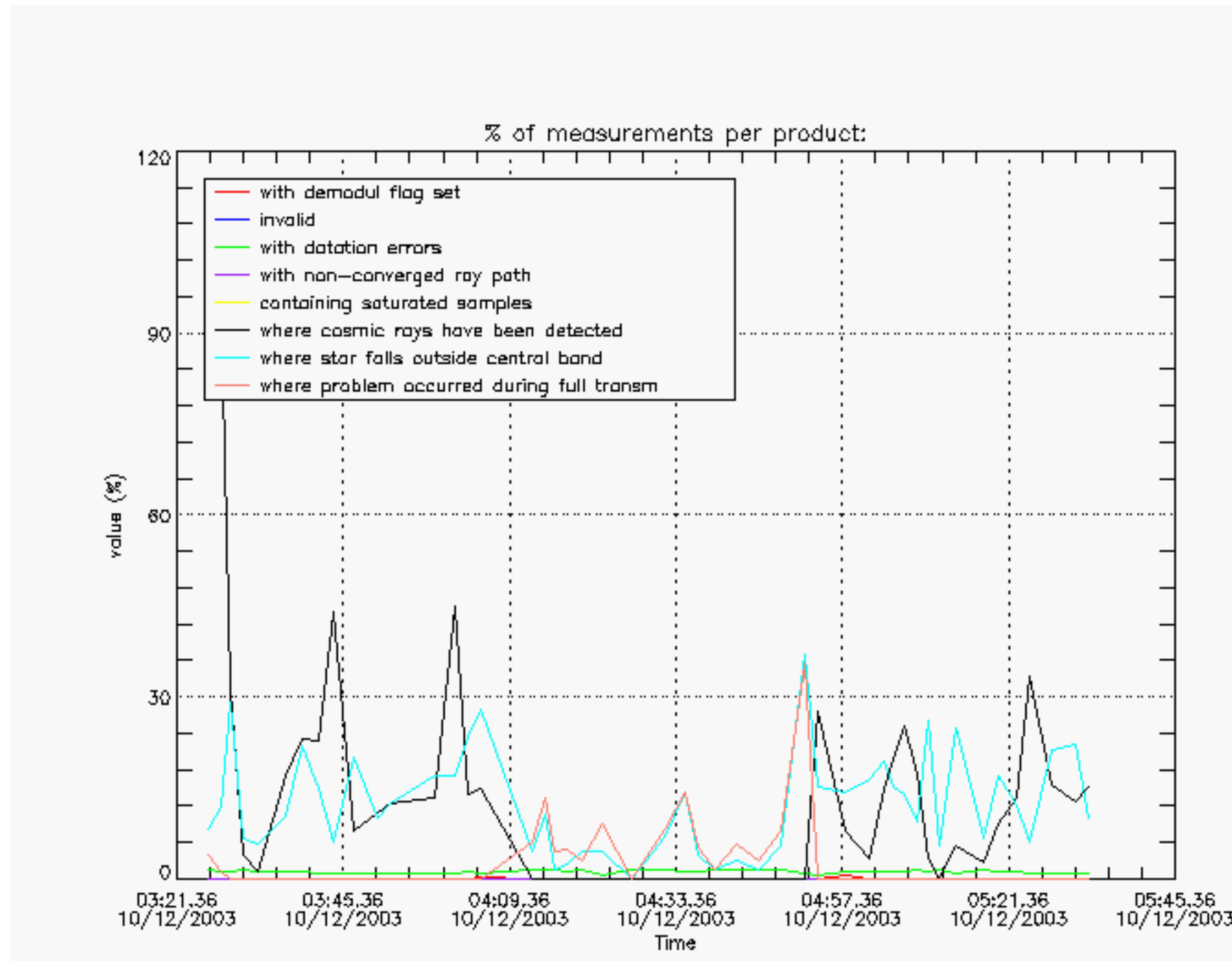
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.7	1448.0	1460.7	1447.3
St. deviation:	5.7956	6.9756	7.0068	8.2133
Maximum:	1514.0	1492.0	1513.0	1493.0
Minimum:	1415.0	1399.0	1443.0	1420.0
Number of data:	33050.	33050.	13300.	13300.

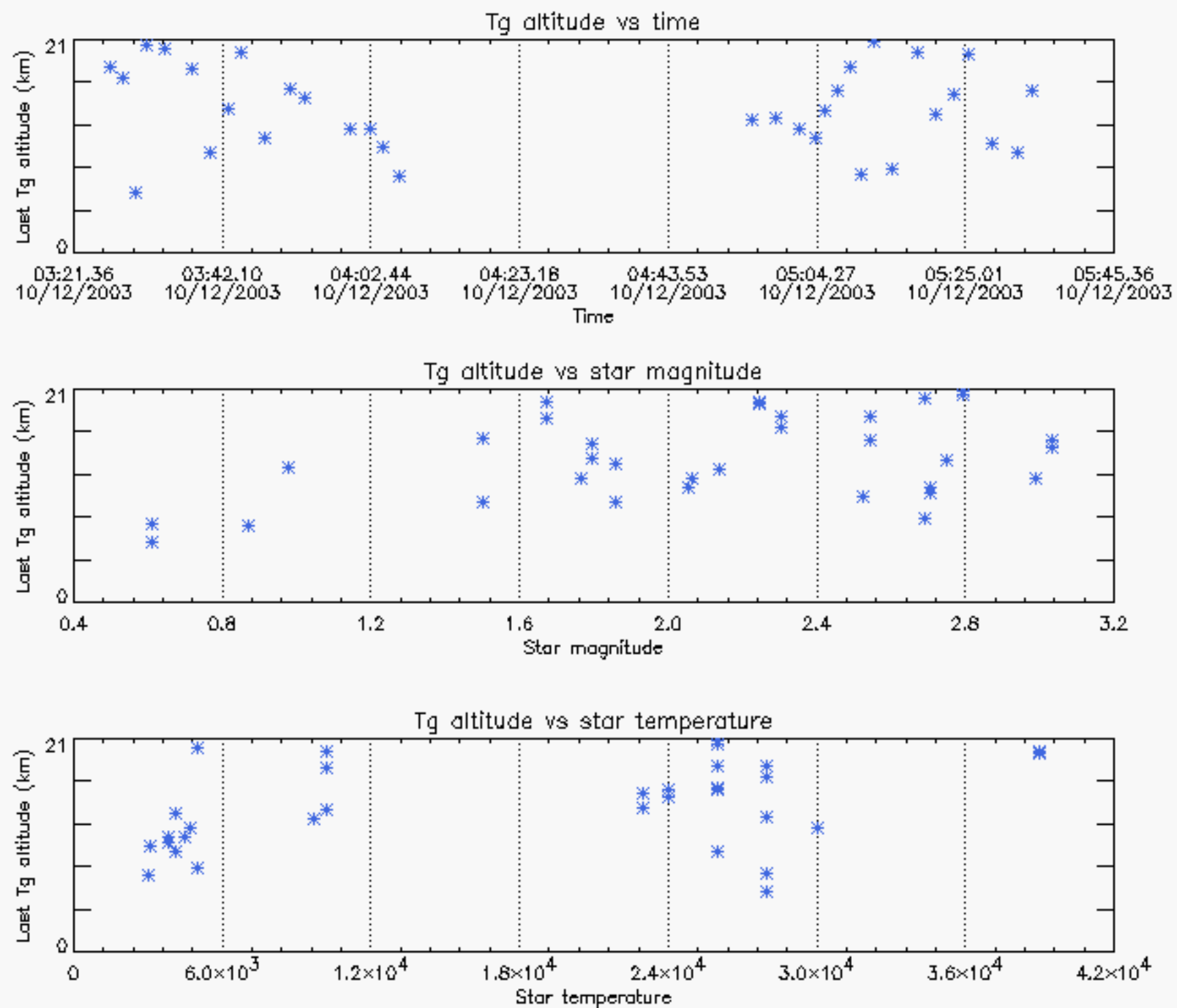




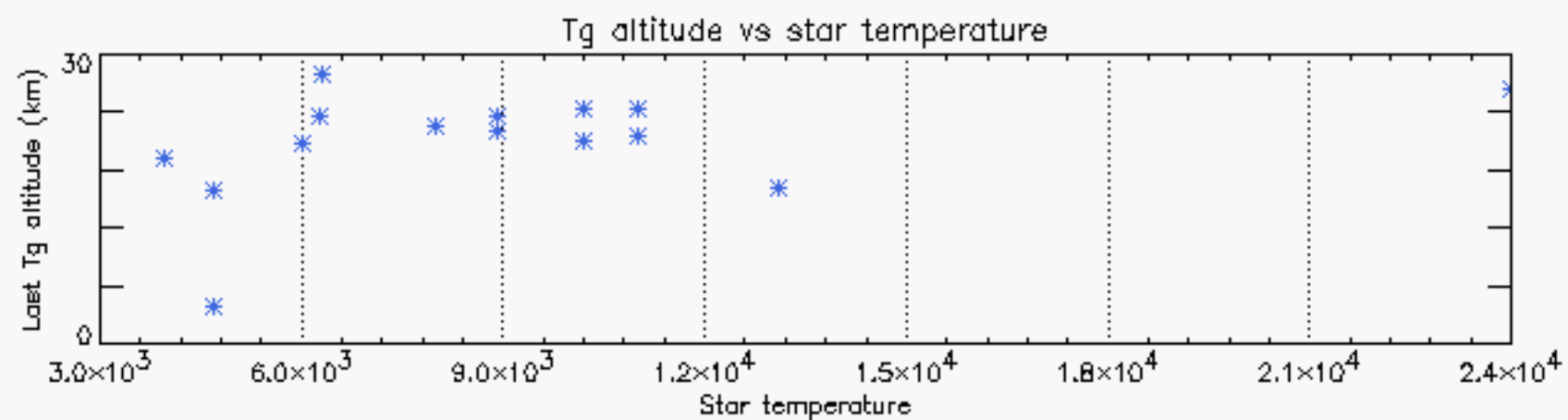
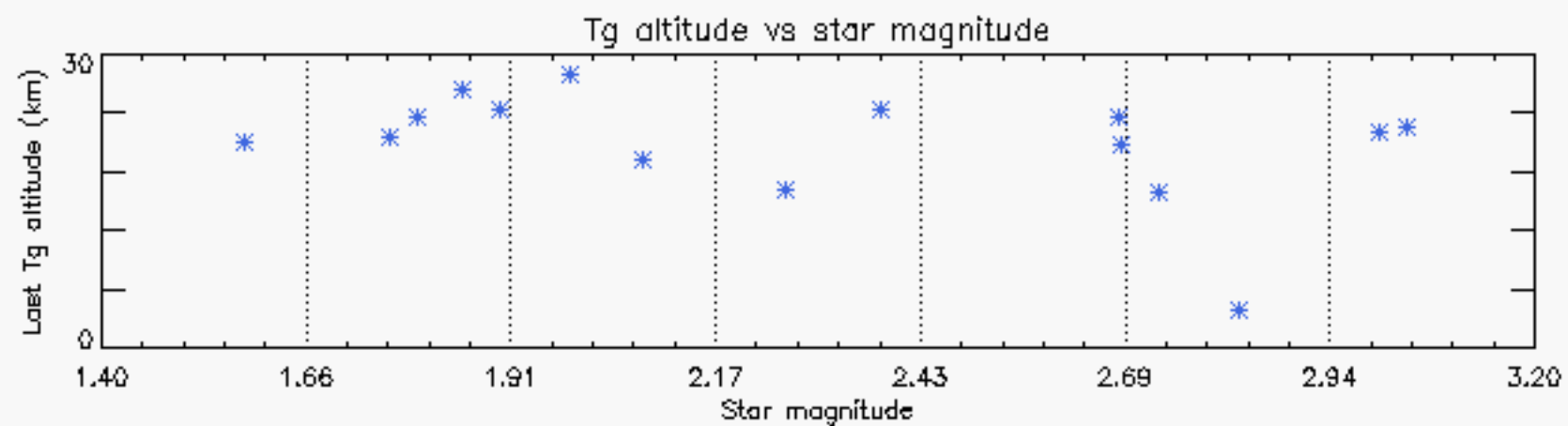
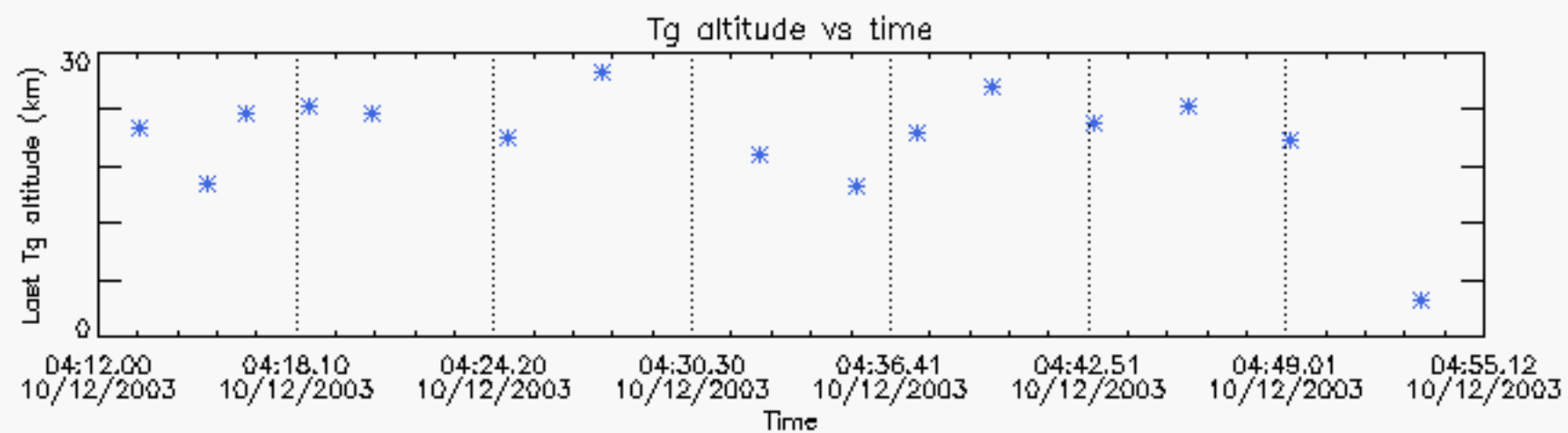




Tangent altitude at which the star is lost



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
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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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