

GOMOS Daily Report 05-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	09DEC2003 08:46:38
Data source version	<Any version>
Start time of products	05-DEC-2003 (05DEC2003 00:00:00)
Stop time of products	06-DEC-2003 (06DEC2003 00:00:00)
Store outputs flag	1
Nb of level 1b prods	55
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_1PNPDE20031205_042950_00000462022_00148_09220_0000.N1	05-DEC-2003 04:29:50	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	9220	No
GOM_TRA_1PNPDE20031205_043414_00000412022_00148_09220_0001.N1	05-DEC-2003 04:34:14	Dark	40.500	29	Bet Car	1.6720	10200.	81	9220	No
GOM_TRA_1PNPDE20031205_043618_00000522022_00148_09220_0002.N1	05-DEC-2003 04:36:18	Dark	51.500	41	Eps Car	1.8600	4100.0	103	9220	No
GOM_TRA_1PNPDE20031205_043831_00000512022_00148_09220_0003.N1	05-DEC-2003 04:38:31	Dark	50.500	34	Gam2Vel	1.7930	23000.	101	9220	No
GOM_TRA_1PNPDE20031205_044134_00000482022_00148_09220_0004.N1	05-DEC-2003 04:41:34	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	9220	No
GOM_TRA_1PNPDE20031205_044342_00000592022_00148_09220_0005.N1	05-DEC-2003 04:43:42	Dark	58.500	117	Pi Pup	2.7060	3800.0	117	9220	No
GOM_TRA_1PNPDE20031205_044722_00000632022_00148_09220_0006.N1	05-DEC-2003 04:47:22	Dark	63.000	23	21Eps CMa	1.5020	26000.	126	9220	No
GOM_TRA_1PNPDE20031205_044926_00000642022_00148_09220_0007.N1	05-DEC-2003 04:49:26	Dark	64.000	179	24Omi2CMa	3.0320	24000.	128	9220	No
GOM_TRA_1PNPDE20031205_215439_00000382022_00158_09230_0009.N1	05-DEC-2003 21:54:39	Bright	38.000	150	44Zet Per	2.8900	28000.	76	9230	No
GOM_TRA_1PNPDE20031205_215704_00000362022_00158_09230_0010.N1	05-DEC-2003 21:57:04	Bright	36.000	79	26Bet Per	2.3100	13100.	72	9230	No
GOM_TRA_1PNPDE20031205_215907_00000372022_00158_09230_0011.N1	05-DEC-2003 21:59:07	Bright	36.500	175	39Del Per	3.0100	19400.	73	9230	No
GOM_TRA_1PNPDE20031205_220036_00000372022_00158_09230_0012.N1	05-DEC-2003 22:00:36	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	9230	No
GOM_TRA_1PNPDE20031205_220312_00000382022_00158_09230_0013.N1	05-DEC-2003 22:03:12	Bright	37.500	110	37Del Cas	2.6780	8900.0	75	9230	No
GOM_TRA_1PNPDE20031205_220433_00000392022_00158_09230_0014.N1	05-DEC-2003 22:04:33	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	9230	No
GOM_TRA_1PNPDE20031205_221041_00000392022_00158_09230_0015.N1	05-DEC-2003 22:10:41	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	9230	No
GOM_TRA_1PNPDE20031205_221523_00000382022_00158_09230_0016.N1	05-DEC-2003 22:15:23	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	9230	No
GOM_TRA_1PNPDE20031205_221657_00000422022_00158_09230_0017.N1	05-DEC-2003 22:16:57	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	9230	No
GOM_TRA_1PNPDE20031205_221831_00000462022_00158_09230_0018.N1	05-DEC-2003 22:18:31	Bright	46.000	82	48Bet UMa	2.3650	10600.	92	9230	No
GOM_TRA_1PNPDE20031205_222027_00000402022_00158_09230_0019.N1	05-DEC-2003 22:20:27	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	9230	No
GOM_TRA_1PNPDE20031205_222240_00000542022_00158_09230_0020.N1	05-DEC-2003 22:22:40	Bright	54.000	39	85Eta UMa	1.8540	24000.	108	9230	No
GOM_TRA_1PNPDE20031205_222540_00000372022_00158_09230_0021.N1	05-DEC-2003 22:25:40	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	9230	No
GOM_TRA_1PNPDE20031205_222844_00000362022_00158_09230_0022.N1	05-DEC-2003 22:28:44	Bright	35.500	83		2.3780	11000.	71	9230	No
GOM_TRA_1PNPDE20031205_223118_00000372022_00158_09230_0023.N1	05-DEC-2003 22:31:18	Bright	37.000	3	16Alp Boo	-0.050000	4250.0	74	9230	No
GOM_TRA_1PNPDE20031205_223543_00000972022_00158_09230_0024.N1	05-DEC-2003 22:35:43	Dark	97.000	96	68Del Leo	2.5600	9300.0	194	9230	No
GOM_TRA_1PNPDE20031205_223940_00000482022_00158_09230_0025.N1	05-DEC-2003 22:39:40	Dark	48.000	121	29Gam Vir	2.7400	7200.0	96	9230	No
GOM_TRA_1PNPDE20031205_224433_00000482022_00158_09230_0026.N1	05-DEC-2003 22:44:33	Dark	48.000	163	7Del Crv	2.9450	11000.	96	9230	No
GOM_TRA_1PNPDE20031205_224607_00000462022_00158_09230_0027.N1	05-DEC-2003 22:46:07	Dark	46.000	106	9Bet Crv	2.6480	5600.0	92	9230	No
GOM_TRA_1PNPDE20031205_224748_00000412022_00158_09230_0028.N1	05-DEC-2003 22:47:48	Dark	40.500	123	lot Cen	2.7500	10200.	81	9230	No
GOM_TRA_1PNPDE20031205_225138_00000402022_00158_09230_0029.N1	05-DEC-2003 22:51:38	Dark	40.000	77	Eps Cen	2.3030	28000.	80	9230	No
GOM_TRA_1PNPDE20031205_225304_00000442022_00158_09230_0030.N1	05-DEC-2003 22:53:04	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	9230	No
GOM_TRA_1PNPDE20031205_225441_00000412022_00159_09231_0031.N1	05-DEC-2003 22:54:41	Dark	40.500	129	Del Cru	2.7930	26000.	81	9231	No
GOM_TRA_1PNPDE20031205_225635_00000472022_00159_09231_0032.N1	05-DEC-2003 22:56:35	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	9231	No
GOM_TRA_1PNPDE20031205_230053_00000422022_00159_09231_0033.N1	05-DEC-2003 23:00:53	Dark	41.500	29	Bet Car	1.6720	10200.	83	9231	No
GOM_TRA_1PNPDE20031205_230259_00000452022_00159_09231_0034.N1	05-DEC-2003 23:02:59	Dark	44.500	41	Eps Car	1.8600	4100.0	89	9231	No
GOM_TRA_1PNPDE20031205_230515_00000512022_00159_09231_0035.N1	05-DEC-2003 23:05:15	Dark	50.500	34	Gam2Vel	1.7930	23000.	101	9231	No
GOM_TRA_1PNPDE20031205_230814_00000572022_00159_09231_0036.N1	05-DEC-2003 23:08:14	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	9231	No
GOM_TRA_1PNPDE20031205_231025_00000612022_00159_09231_0000.N1	05-DEC-2003 23:10:25	Dark	61.000	117	Pi Pup	2.7060	3800.0	122	9231	Yes
GOM_TRA_1PNPDE20031205_231404_00000622022_00159_09231_0001.N1	05-DEC-2003 23:14:04	Dark	62.000	23	21Eps CMa	1.5020	26000.	124	9231	No
GOM_TRA_1PNPDE20031205_231607_00000692022_00159_09231_0002.N1	05-DEC-2003 23:16:07	Dark	68.500	179	24Omi2CMa	3.0320	24000.	137	9231	No
GOM_TRA_1PNPDE20031205_231930_00000652022_00159_09231_0003.N1	05-DEC-2003 23:19:30	Dark	65.000	47	2Bet CMa	1.9760	28000.	130	9231	No
GOM_TRA_1PNPDE20031205_232202_00000472022_00159_09231_0004.N1	05-DEC-2003 23:22:02	Dark	46.500	165	34Gam Eri	2.9500	3200.0	93	9231	No
GOM_TRA_1PNPDE20031205_232324_00000602022_00159_09231_0005.N1	05-DEC-2003 23:23:24	Dark	60.000	7	19Bet Ori	0.10000	14000.	120	9231	No
GOM_TRA_1PNPDE20031205_232724_00000472022_00159_09231_0006.N1	05-DEC-2003 23:27:24	Dark	47.000	94	92Alp Cet	2.5260	3100.0	94	9231	No
GOM_TRA_1PNPDE20031205_233109_00000592022_00159_09231_0007.N1	05-DEC-2003 23:31:09	Dark	59.000	13	87Alp Tau	0.86700	3800.0	118	9231	No
GOM_TRA_1PNPDE20031205_233259_00000382022_00159_09231_0008.N1	05-DEC-2003 23:32:59	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	9231	No
GOM_TRA_1PNPDE20031205_233514_00000402022_00159_09231_0009.N1	05-DEC-2003 23:35:14	Bright	39.500	150	44Zet Per	2.8900	28000.	79	9231	No
GOM_TRA_1PNPDE20031205_233739_00000372022_00159_09231_0010.N1	05-DEC-2003 23:37:39	Bright	37.000	79	26Bet Per	2.3100	13100.	74	9231	No
GOM_TRA_1PNPDE20031205_233943_00000372022_00159_09231_0011.N1	05-DEC-2003 23:39:43	Bright	37.000	175	39Del Per	3.0100	19400.	74	9231	No
GOM_TRA_1PNPDE20031205_234111_00000382022_00159_09231_0012.N1	05-DEC-2003 23:41:11	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	9231	No
GOM_TRA_1PNPDE20031205_234348_00000382022_00159_09231_0013.N1	05-DEC-2003 23:43:48	Bright	37.500	110	37Del Cas	2.6780	8900.0	75	9231	No
GOM_TRA_1PNPDE20031205_234508_00000422022_00159_09231_0014.N1	05-DEC-2003 23:45:08	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	9231	No
GOM_TRA_1PNPDE20031205_235116_00000372022_00159_09231_0015.N1	05-DEC-2003 23:51:16	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	9231	No
GOM_TRA_1PNPDE20031205_235558_00000392022_00159_09231_0016.N1	05-DEC-2003 23:55:58	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	9231	No
GOM_TRA_1PNPDE20031205_235733_00000472022_00159_09231_0017.N1	05-DEC-2003 23:57:33	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	9231	No
GOM_TRA_1PNPDE20031205_235906_00000492022_00159_09231_0018.N1	05-DEC-2003 23:59:06	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	9231	No

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:	14.8148 %
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:	14.928	21.291
St. deviation:	4.3860	3.9797
Maximum:	21.518	28.330
Minimum:	4.7499	4.9642
Number of data:	28.000	26.000

6.2 Plot for DARK limb products

6.3 Plot for BRIGHT limb products

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

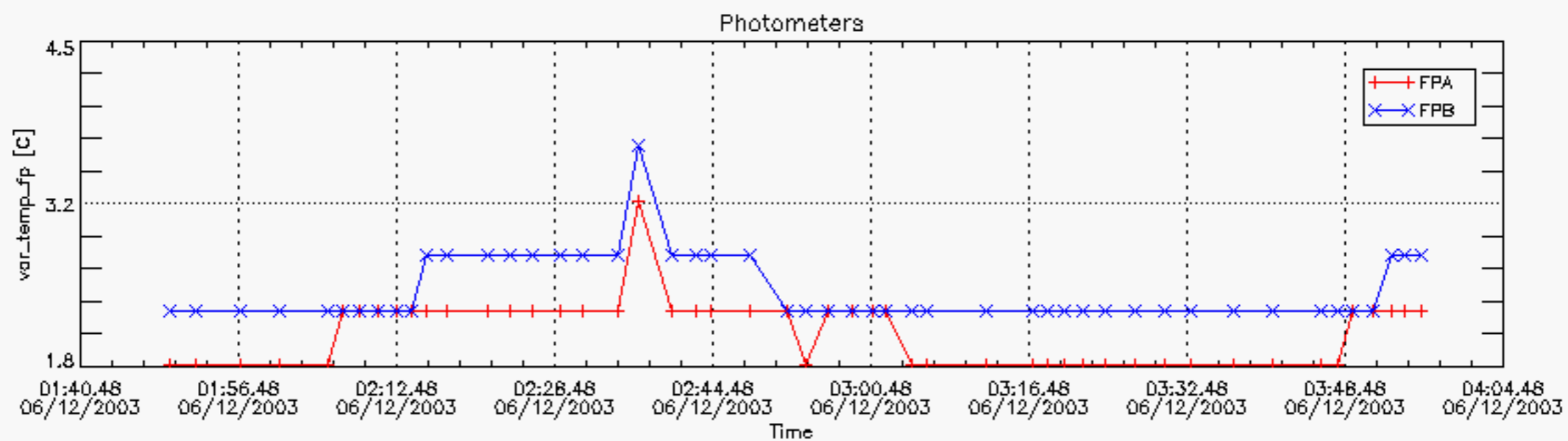
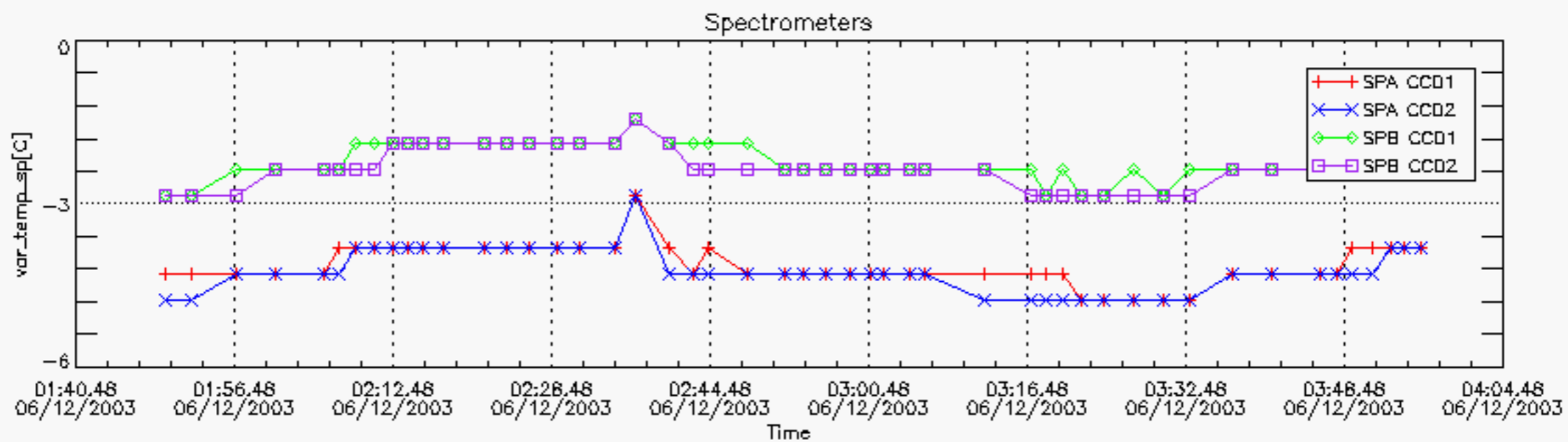
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

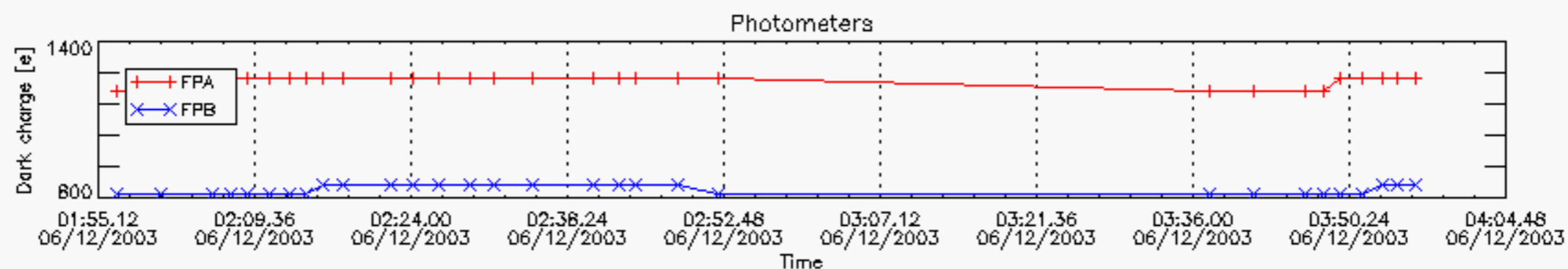
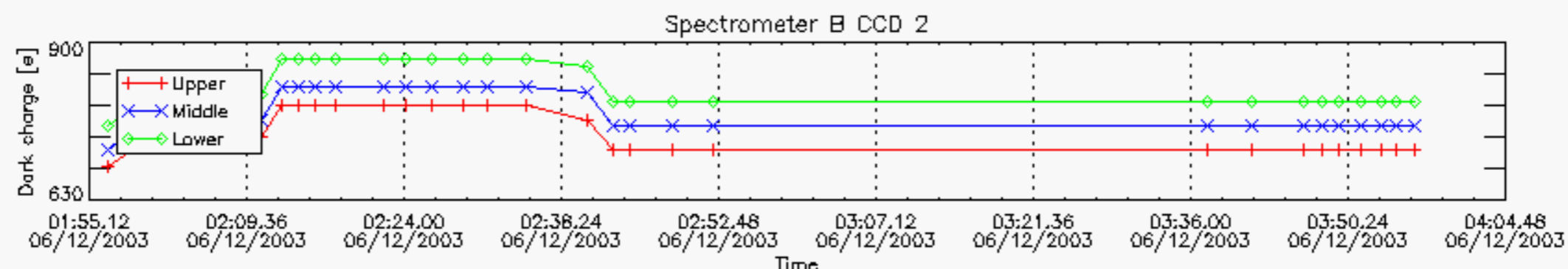
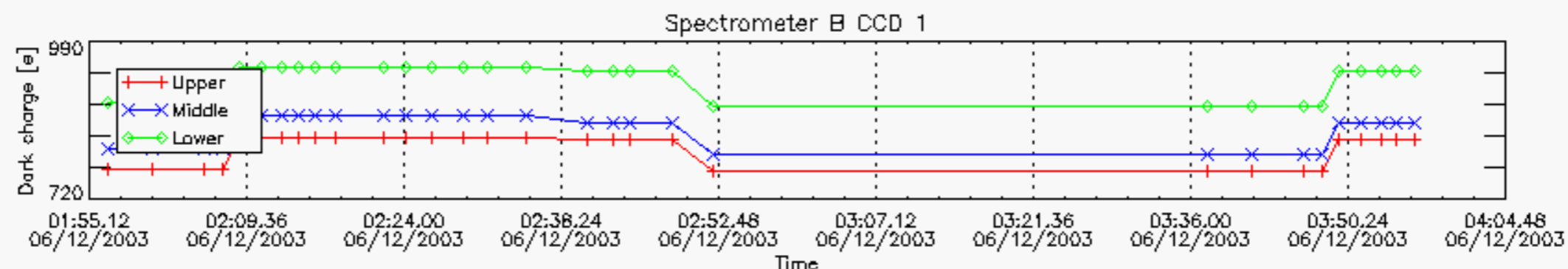
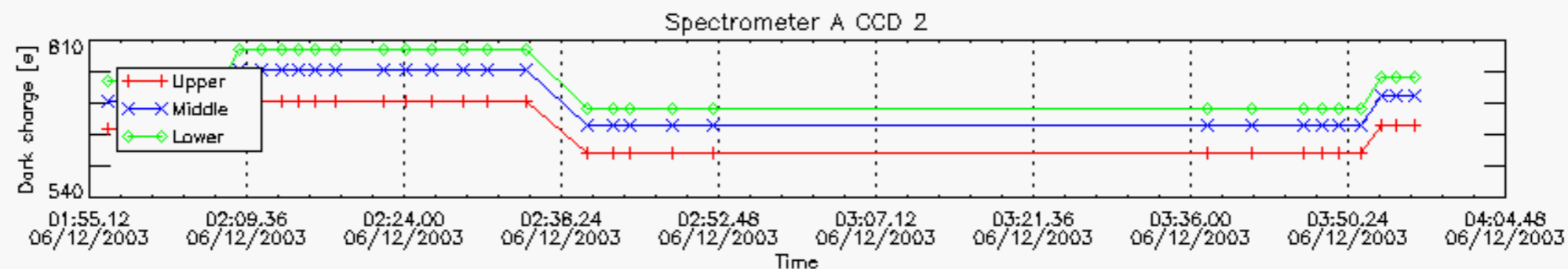
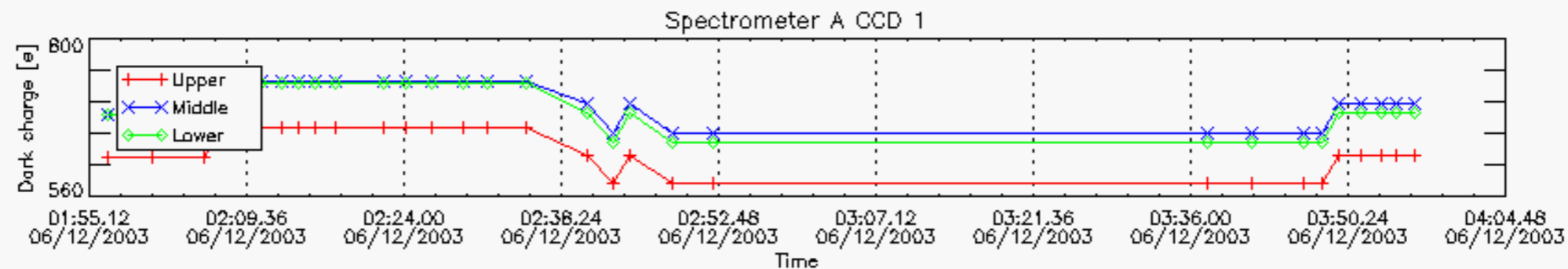
Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

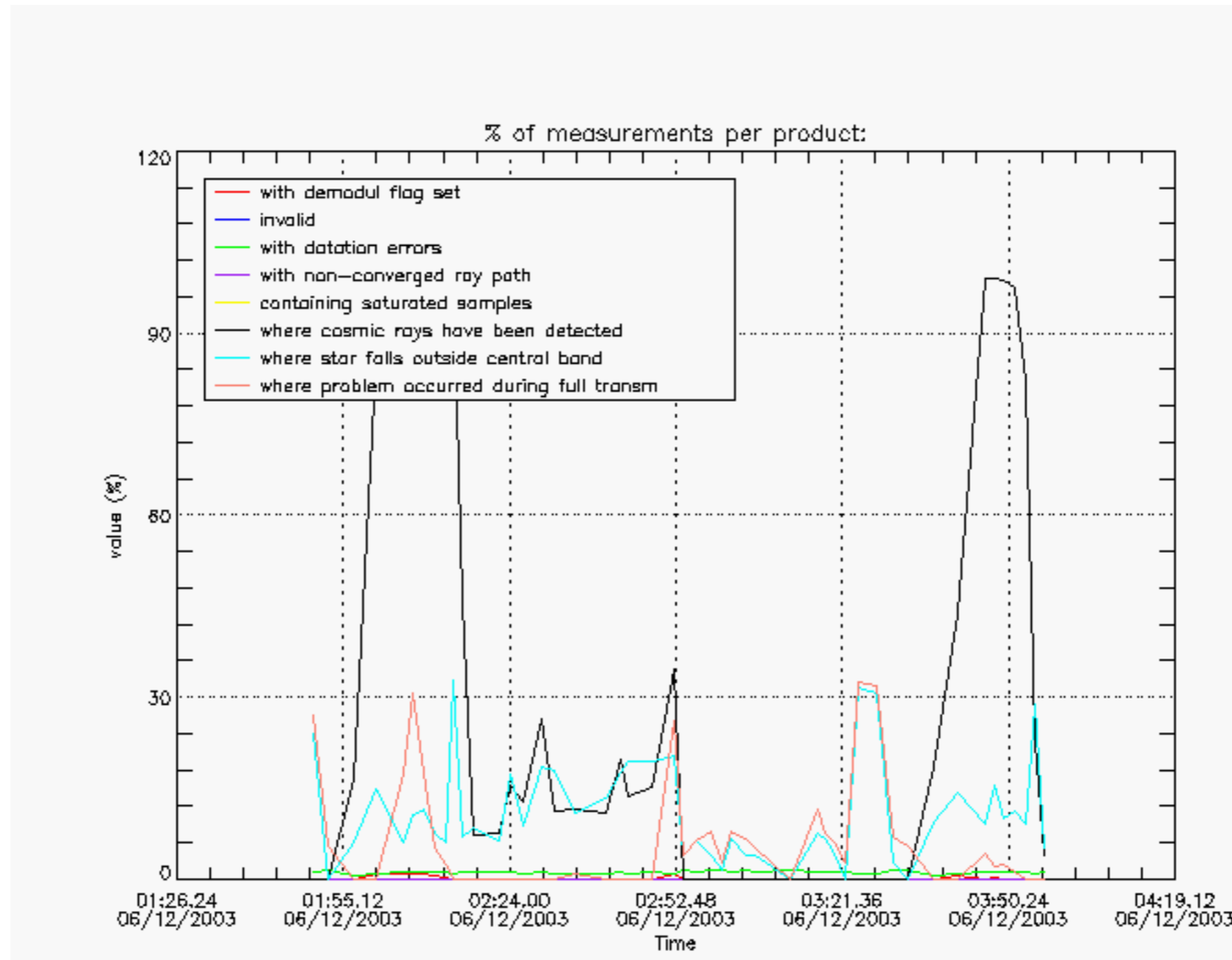
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.3	1447.7	1460.6	1446.9
St. deviation:	5.2887	6.5217	8.0507	9.1699
Maximum:	1507.0	1504.0	1514.0	1507.0
Minimum:	1459.0	1430.0	1429.0	1413.0
Number of data:	35950.	35950.	27050.	27050.



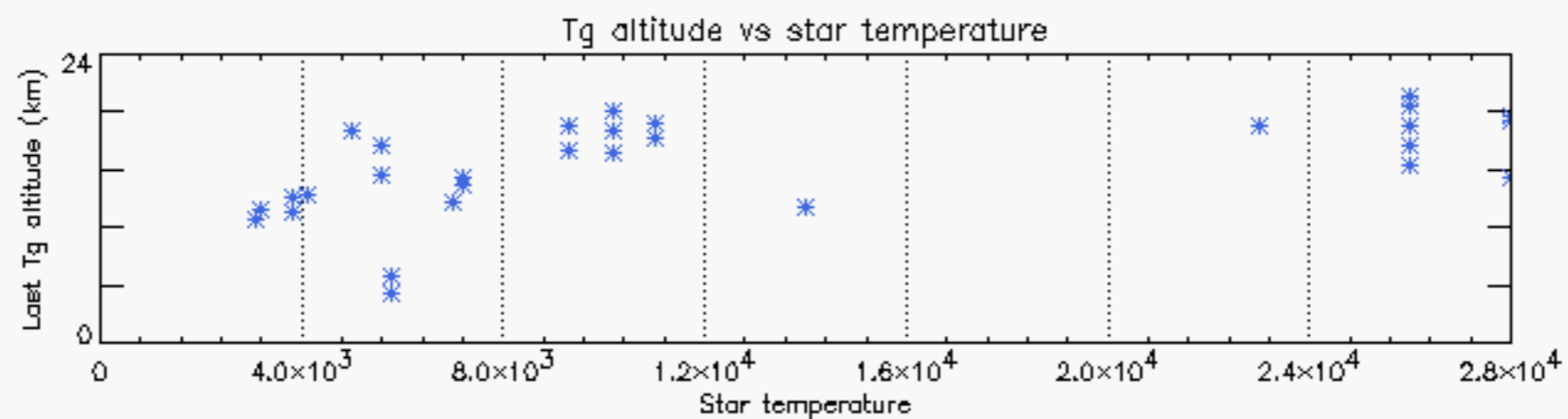
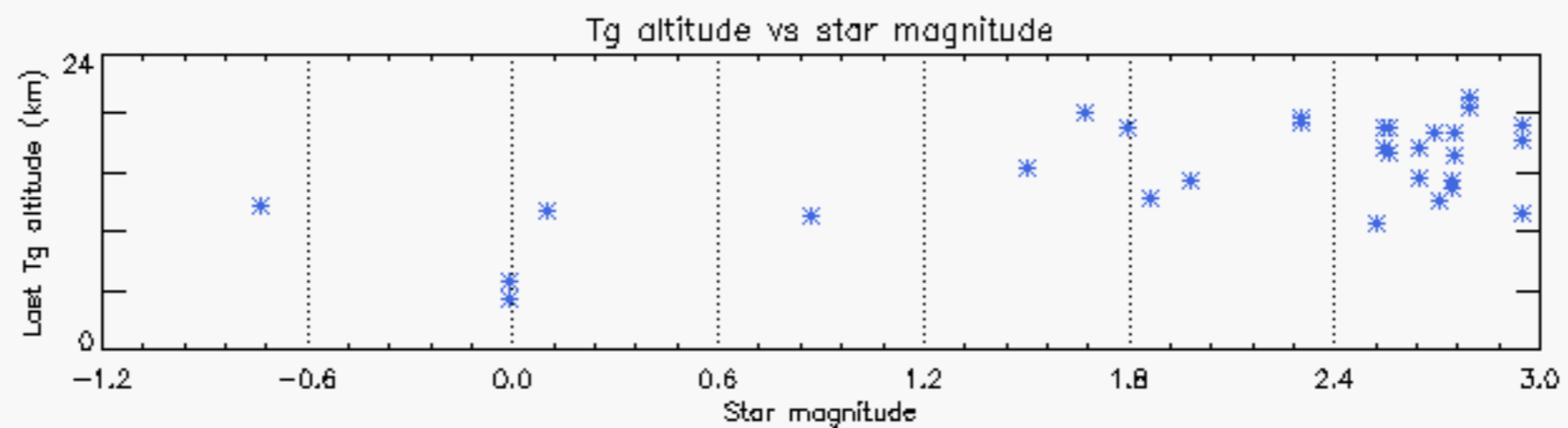
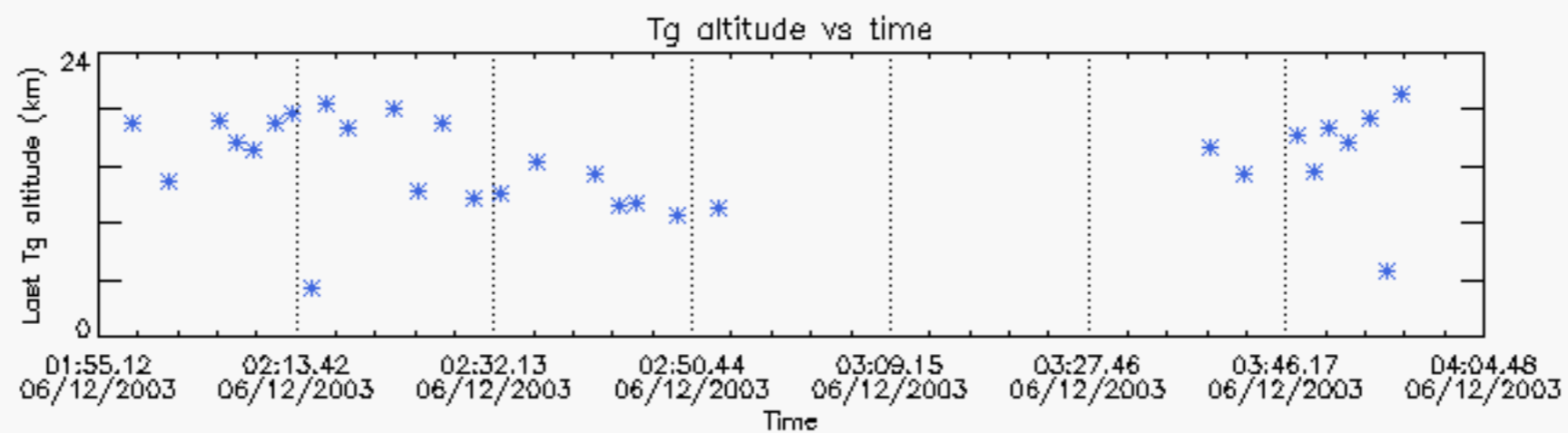




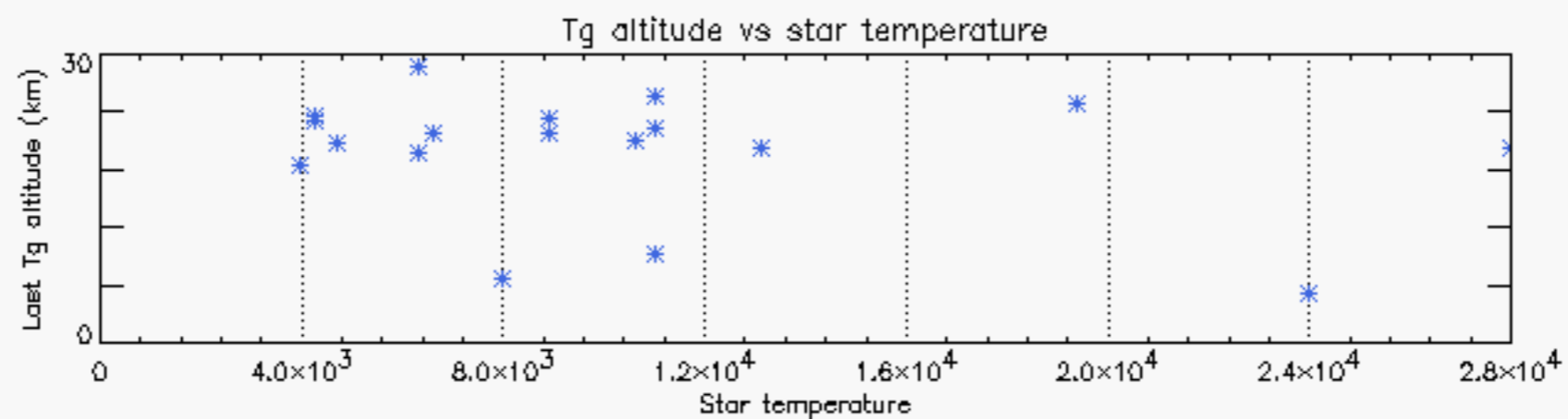
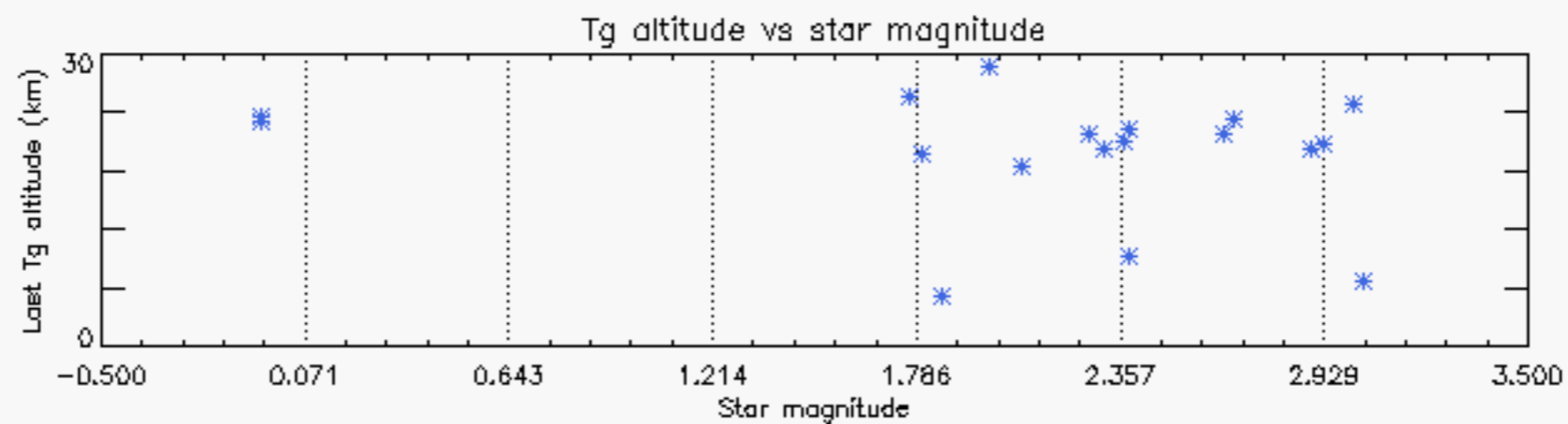
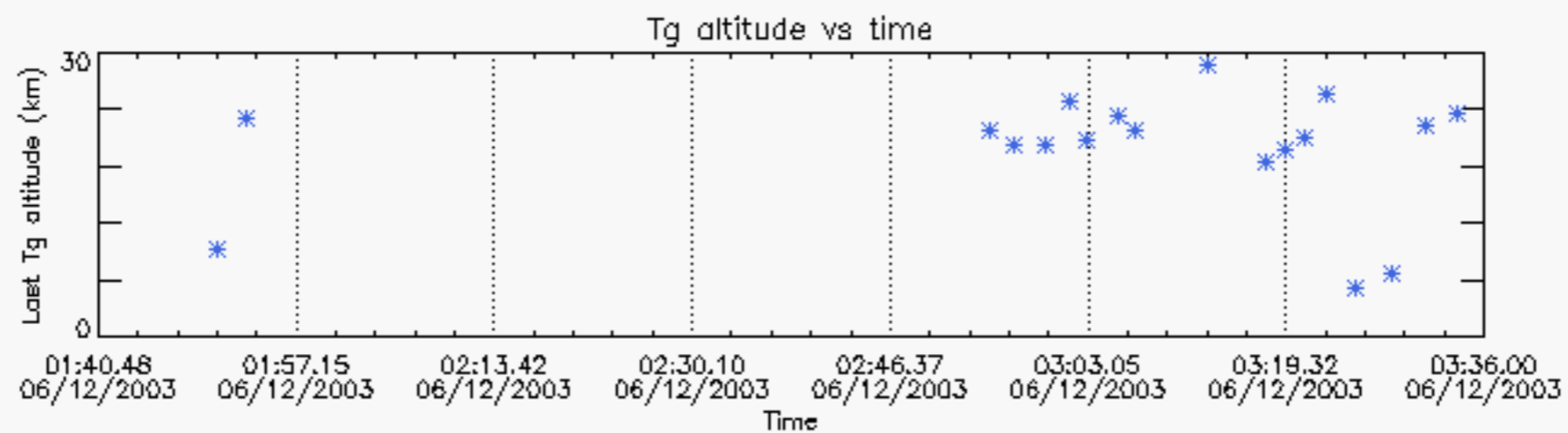




Tangent altitude at which the star is lost



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
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 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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 33; 915.6; 01-DEC-2003 08:30:02; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0; 9165
 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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 28; 203.1; 01-DEC-2003 09:58:45; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0; 9166
 29; 341.4; 01-DEC-2003 10:01:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9166
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 33; 916.9; 01-DEC-2003 10:10:39; Dark ; 65.5; 117; Pi Pup ; 2.71; 3800;occ; 131; 0; 9166
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27; 203.9; 01-DEC-2003 11:39:22; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9167
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