

GOMOS Daily Report 04-FEB-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	05FEB2004 06:55:38
Data source version	<Any version>
Start time of products	04-FEB-2004 (04FEB2004 00:00:00)
Stop time of products	05-FEB-2004 (05FEB2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

2. Summary of products arrived in PCF

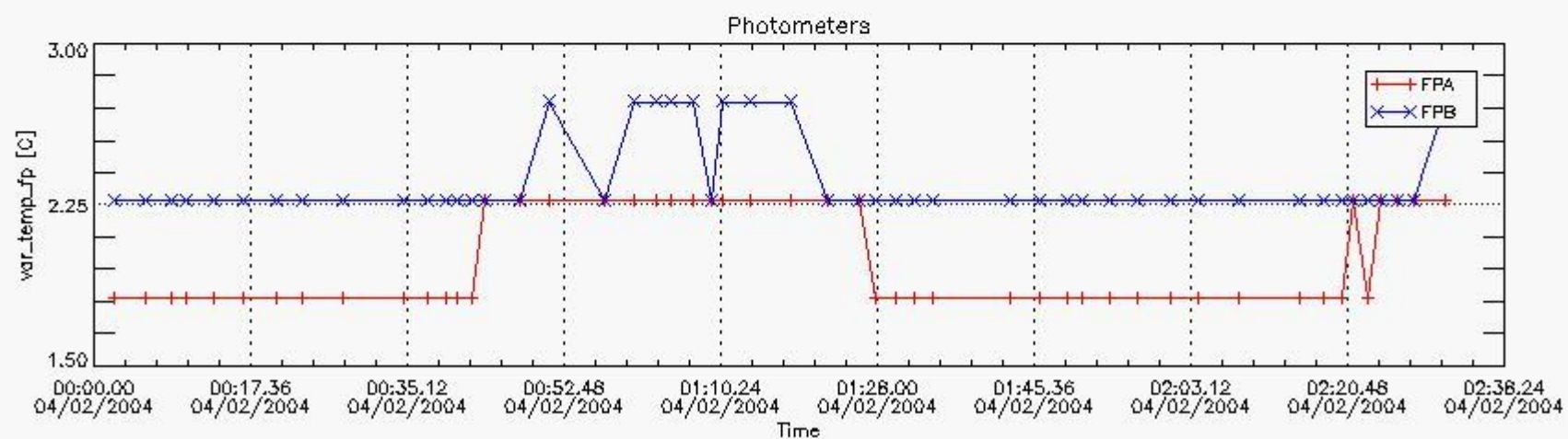
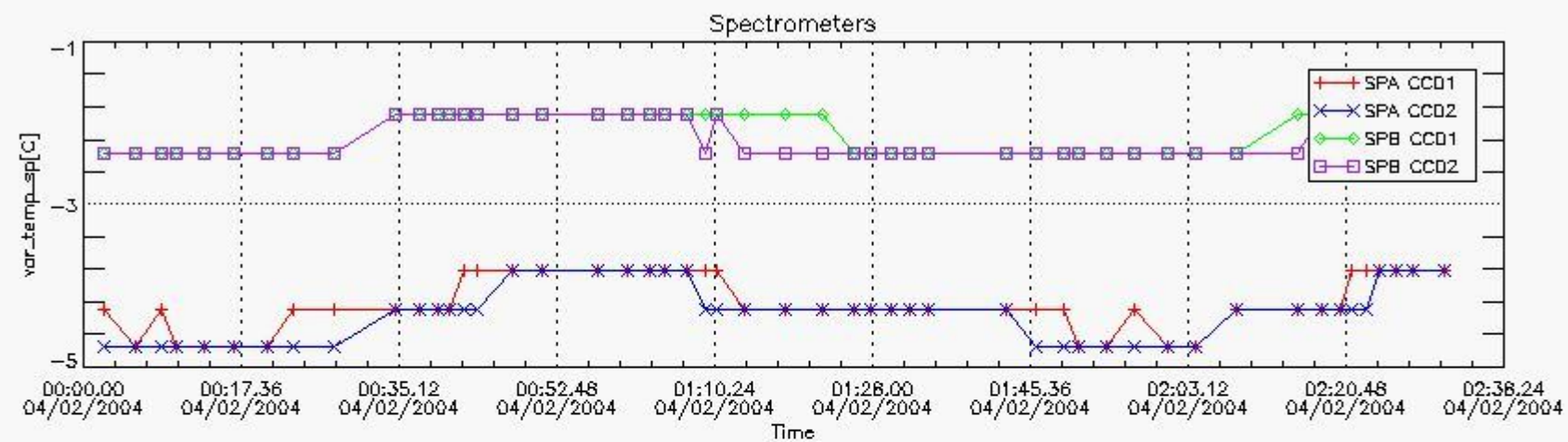
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040204_000220_000000482024_00016_10090_0010.N1	04-FEB-2004 00:02:20	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	10090	No
GOM_TRA_1PNPDE20040204_000543_000000372024_00016_10090_0011.N1	04-FEB-2004 00:05:43	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	10090	No
GOM_TRA_1PNPDE20040204_000839_000000372024_00016_10090_0012.N1	04-FEB-2004 00:08:39	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	10090	No
GOM_TRA_1PNPDE20040204_001018_000000572024_00016_10090_0013.N1	04-FEB-2004 00:10:18	Bright	56.500	55	79Zet UMa	2.0600	10200.	113	10090	No
GOM_TRA_1PNPDE20040204_001324_000000432024_00016_10090_0014.N1	04-FEB-2004 00:13:24	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	10090	No
GOM_TRA_1PNPDE20040204_001641_000000382024_00016_10090_0015.N1	04-FEB-2004 00:16:41	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	10090	No
GOM_TRA_1PNPDE20040204_002024_000000402024_00016_10090_0016.N1	04-FEB-2004 00:20:24	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	10090	No
GOM_TRA_1PNPDE20040204_002326_000000462024_00016_10090_0017.N1	04-FEB-2004 00:23:26	Bright	46.000	133	40Zet Her	2.8070	6000.0	92	10090	No
GOM_TRA_1PNPDE20040204_002757_000001322024_00016_10090_0018.N1	04-FEB-2004 00:27:57	Dark	131.50	83		2.3780	11000.	263	10090	No
GOM_TRA_1PNPDE20040204_003452_000000752024_00016_10090_0019.N1	04-FEB-2004 00:34:52	Dark	74.500	102	24Alp Ser	2.6000	4250.0	149	10090	No
GOM_TRA_1PNPDE20040204_003727_000000452024_00016_10090_0020.N1	04-FEB-2004 00:37:27	Dark	44.500	86	35Eta Oph	2.4300	10200.	89	10090	No
GOM_TRA_1PNPDE20040204_003937_000000452024_00016_10090_0021.N1	04-FEB-2004 00:39:37	Dark	45.000	116	19Del Sgr	2.7000	4100.0	90	10090	No
GOM_TRA_1PNPDE20040204_004049_000000432024_00016_10090_0022.N1	04-FEB-2004 00:40:49	Dark	43.000	38	20Eps Sgr	1.8360	11000.	86	10090	No
GOM_TRA_1PNPDE20040204_004225_000000432024_00016_10090_0023.N1	04-FEB-2004 00:42:25	Dark	43.000	25	35Lam Sco	1.6200	28000.	86	10090	No
GOM_TRA_1PNPDE20040204_004351_000000442024_00016_10090_0024.N1	04-FEB-2004 00:43:51	Dark	44.000	40	The Sco	1.8590	7100.0	88	10090	No
GOM_TRA_1PNPDE20040204_004744_000000442024_00016_10090_0025.N1	04-FEB-2004 00:47:44	Dark	44.000	131	Gam Lup	2.8000	26000.	88	10090	No
GOM_TRA_1PNPDE20040204_005106_000000492024_00017_10091_0026.N1	04-FEB-2004 00:51:06	Dark	48.500	43	Alp TrA	1.9100	4250.0	97	10091	No
GOM_TRA_1PNPDE20040204_005721_000000412024_00017_10091_0027.N1	04-FEB-2004 00:57:21	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	10091	No
GOM_TRA_1PNPDE20040204_010040_000000452024_00017_10091_0028.N1	04-FEB-2004 01:00:40	Dark	44.500	29	Bet Car	1.6720	10200.	89	10091	No
GOM_TRA_1PNPDE20040204_010306_000000392024_00017_10091_0029.N1	04-FEB-2004 01:03:06	Dark	39.000	71	lot Car	2.2460	7700.0	78	10091	No
GOM_TRA_1PNPDE20040204_010449_000000412024_00017_10091_0030.N1	04-FEB-2004 01:04:49	Dark	40.500	46	Del Vel	1.9540	10600.	81	10091	No
GOM_TRA_1PNPDE20040204_010719_000000442024_00017_10091_0031.N1	04-FEB-2004 01:07:19	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	10091	No
GOM_TRA_1PNPDE20040204_010923_000000432024_00017_10091_0032.N1	04-FEB-2004 01:09:23	Dark	42.500	70	Zet Pup	2.2460	39000.	85	10091	No
GOM_TRA_1PNPDE20040204_011042_000000472024_00017_10091_0033.N1	04-FEB-2004 01:10:42	Dark	47.000	117	Pi Pup	2.7060	3800.0	94	10091	No
GOM_TRA_1PNPDE20040204_011346_000000462024_00017_10091_0000.N1	04-FEB-2004 01:13:46	Dark	45.500	37	25Del CMa	1.8300	5900.0	91	10091	No
GOM_TRA_1PNPDE20040204_011812_000000592024_00017_10091_0001.N1	04-FEB-2004 01:18:12	Dark	59.000	48	30Alp Hya	1.9770	4100.0	118	10091	No
GOM_TRA_1PNPDE20040204_012224_000000532024_00017_10091_0002.N1	04-FEB-2004 01:22:24	Dark	53.000	8	10Alp CMi	0.40000	6500.0	106	10091	No
GOM_TRA_1PNPDE20040204_012555_000000412024_00017_10091_0003.N1	04-FEB-2004 01:25:55	Bright	40.500	44	24Gam Gem	1.9280	11000.	81	10091	No
GOM_TRA_1PNPDE20040204_012747_000000402024_00017_10091_0004.N1	04-FEB-2004 01:27:47	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	10091	No
GOM_TRA_1PNPDE20040204_013003_000000412024_00017_10091_0005.N1	04-FEB-2004 01:30:03	Bright	40.500	24	66Alp Gem	1.5800	10200.	81	10091	No
GOM_TRA_1PNPDE20040204_013207_000000362024_00017_10091_0006.N1	04-FEB-2004 01:32:07	Bright	36.000	107	37The Aur	2.6490	11000.	72	10091	No
GOM_TRA_1PNPDE20040204_013411_000000382024_00017_10091_0007.N1	04-FEB-2004 01:34:11	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	10091	No
GOM_TRA_1PNPDE20040204_014256_000000492024_00017_10091_0008.N1	04-FEB-2004 01:42:56	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	10091	No
GOM_TRA_1PNPDE20040204_014619_000000382024_00017_10091_0009.N1	04-FEB-2004 01:46:19	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	10091	No
GOM_TRA_1PNPDE20040204_014914_000000442024_00017_10091_0010.N1	04-FEB-2004 01:49:14	Bright	43.500	60	7Bet UMi	2.0810	3950.0	87	10091	No
GOM_TRA_1PNPDE20040204_015053_000000562024_00017_10091_0011.N1	04-FEB-2004 01:50:53	Bright	56.000	55	79Zet UMa	2.0600	10200.	112	10091	No
GOM_TRA_1PNPDE20040204_015359_000000432024_00017_10091_0012.N1	04-FEB-2004 01:53:59	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	10091	No
GOM_TRA_1PNPDE20040204_015716_000000392024_00017_10091_0013.N1	04-FEB-2004 01:57:16	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	10091	No
GOM_TRA_1PNPDE20040204_020100_000000392024_00017_10091_0014.N1	04-FEB-2004 02:01:00	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	10091	No
GOM_TRA_1PNPDE20040204_020403_000000472024_00017_10091_0015.N1	04-FEB-2004 02:04:03	Bright	46.500	133	40Zet Her	2.8070	6000.0	93	10091	No
GOM_TRA_1PNPDE20040204_020834_000001282024_00017_10091_0016.N1	04-FEB-2004 02:08:34	Dark	127.50	83		2.3780	11000.	255	10091	No
GOM_TRA_1PNPDE20040204_021529_000000722024_00017_10091_0017.N1	04-FEB-2004 02:15:29	Dark	72.000	102	24Alp Ser	2.6000	4250.0	144	10091	No
GOM_TRA_1PNPDE20040204_021804_000000462024_00017_10091_0018.N1	04-FEB-2004 02:18:04	Dark	45.500	86	35Eta Oph	2.4300	10200.	91	10091	No
GOM_TRA_1PNPDE20040204_022013_000000452024_00017_10091_0019.N1	04-FEB-2004 02:20:13	Dark	44.500	116	19Del Sgr	2.7000	4100.0	89	10091	No
GOM_TRA_1PNPDE20040204_022124_000000392024_00017_10091_0020.N1	04-FEB-2004 02:21:24	Dark	39.000	38	20Eps Sgr	1.8360	11000.	78	10091	No
GOM_TRA_1PNPDE20040204_022301_000000432024_00017_10091_0021.N1	04-FEB-2004 02:23:01	Dark	42.500	25	35Lam Sco	1.6200	28000.	85	10091	No
GOM_TRA_1PNPDE20040204_022427_000000472024_00017_10091_0022.N1	04-FEB-2004 02:24:27	Dark	46.500	40	The Sco	1.8590	7100.0	93	10091	No
GOM_TRA_1PNPDE20040204_022620_000000382024_00017_10091_0023.N1	04-FEB-2004 02:26:20	Dark	38.000	147	Alp Ara	2.8770	26000.	76	10091	No
GOM_TRA_1PNPDE20040204_022821_000000462024_00017_10091_0024.N1	04-FEB-2004 02:28:21	Dark	45.500	131	Gam Lup	2.8000	26000.	91	10091	No
GOM_TRA_1PNPDE20040204_023143_000000422024_00018_10092_0025.N1	04-FEB-2004 02:31:43	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	10092	No

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



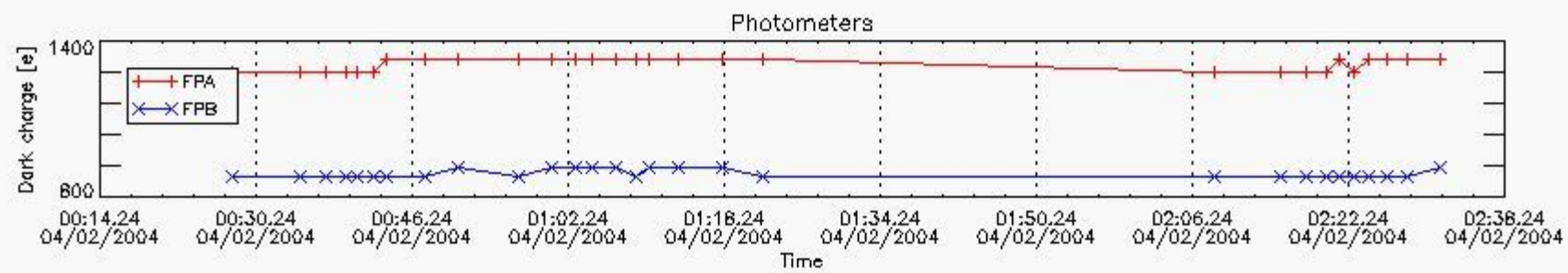
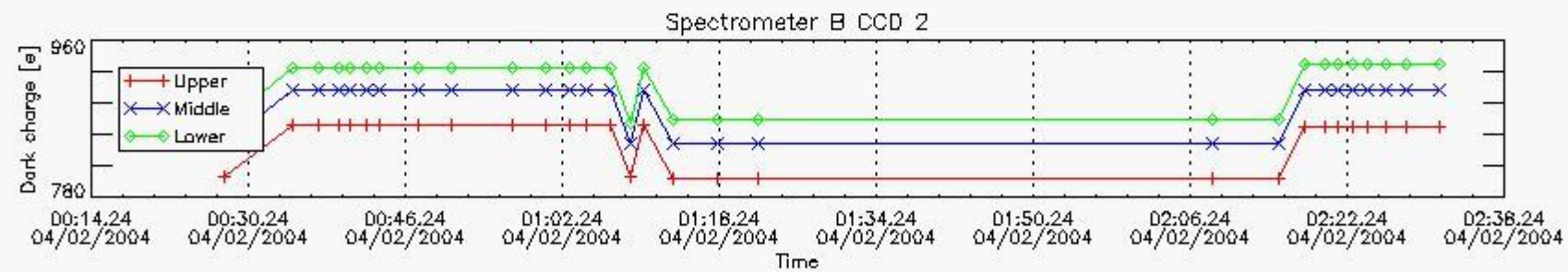
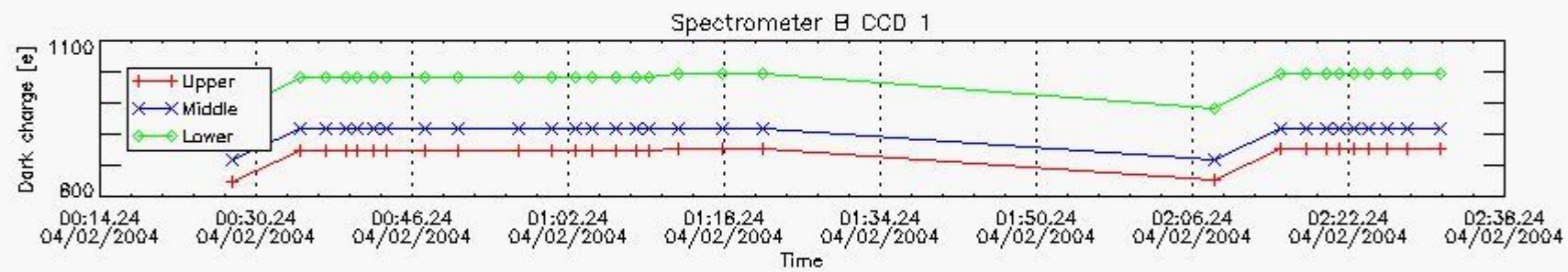
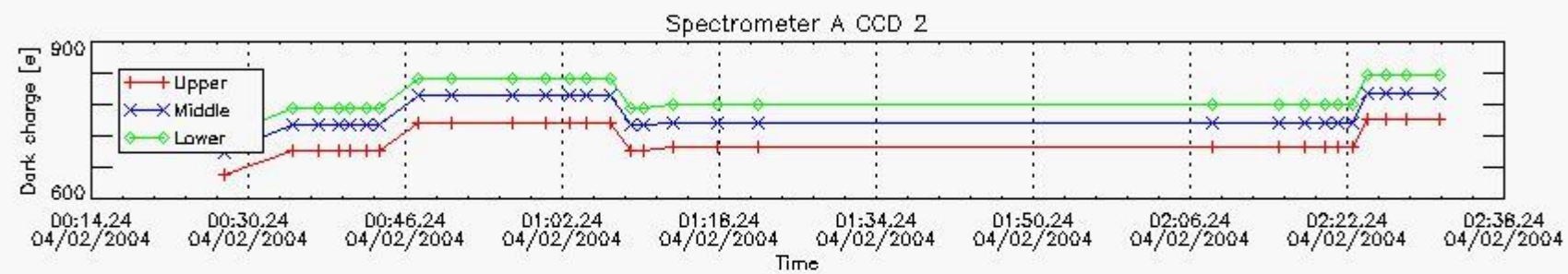
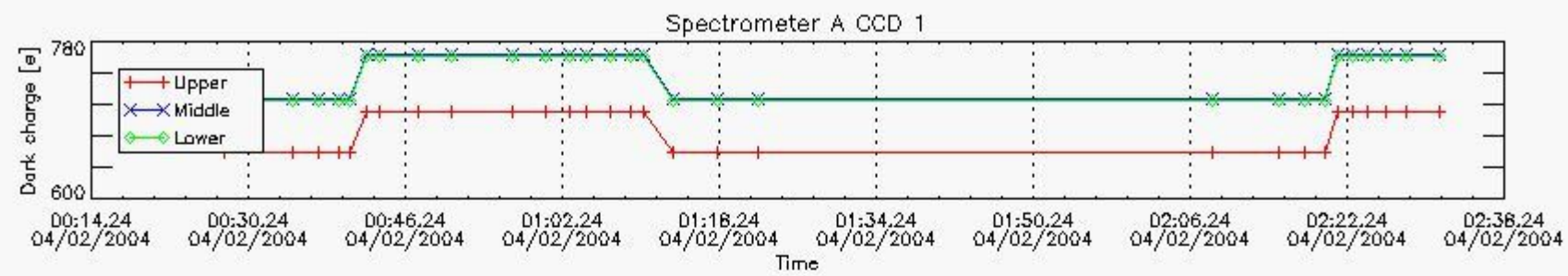
4. Overview of dark signal processing per product

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



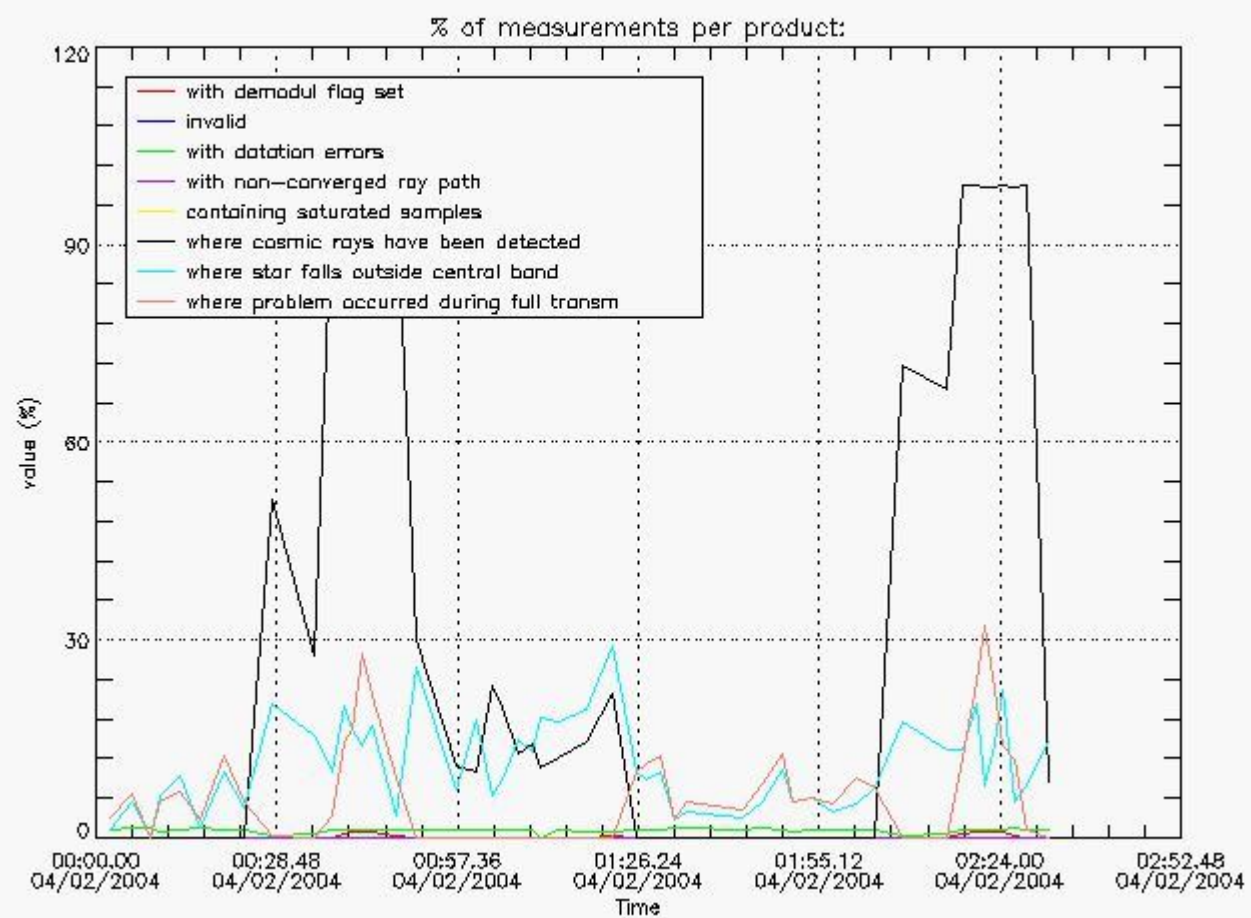
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.0000 %
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



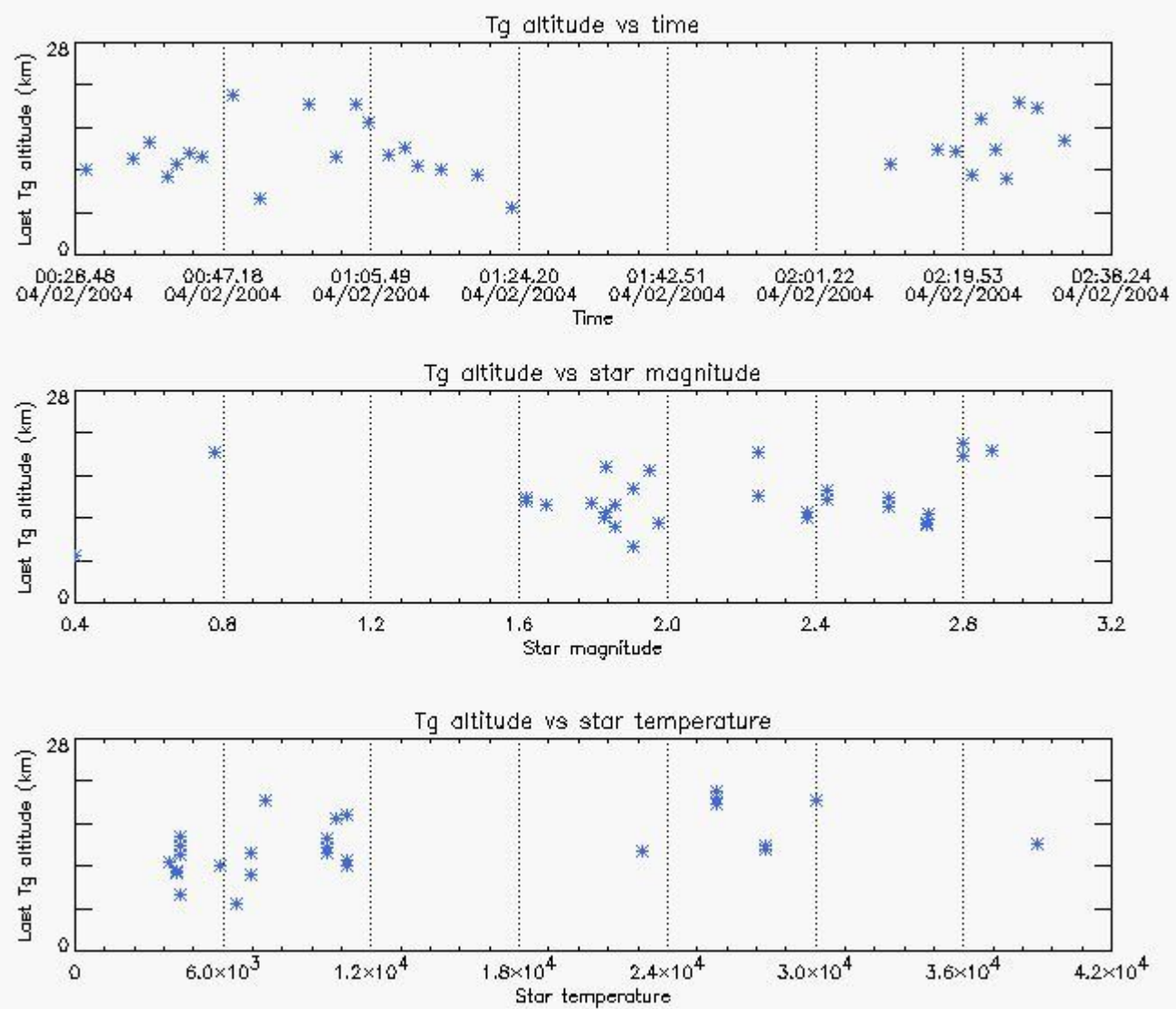
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.768	20.544
St. deviation:	3.8019	3.2572
Maximum:	21.149	29.206
Minimum:	6.3038	15.834
Number of data:	29.000	21.000

6.2 Plot for DARK limb products

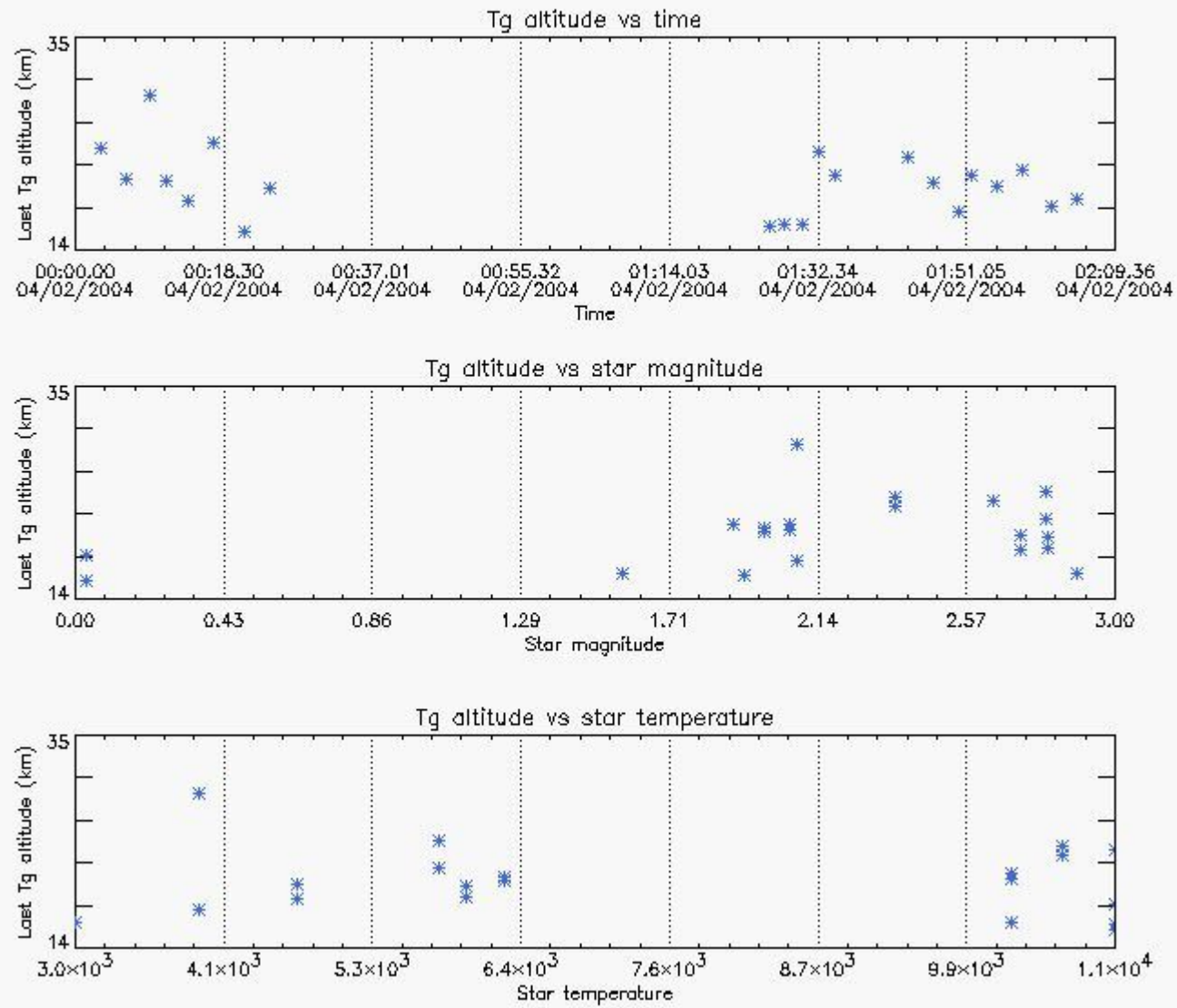
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



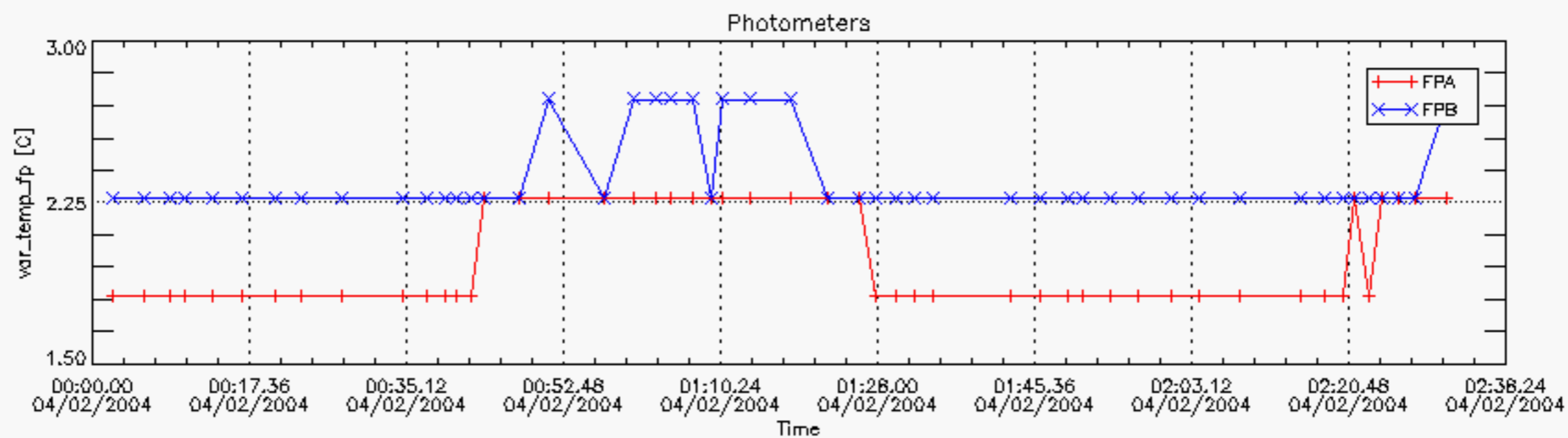
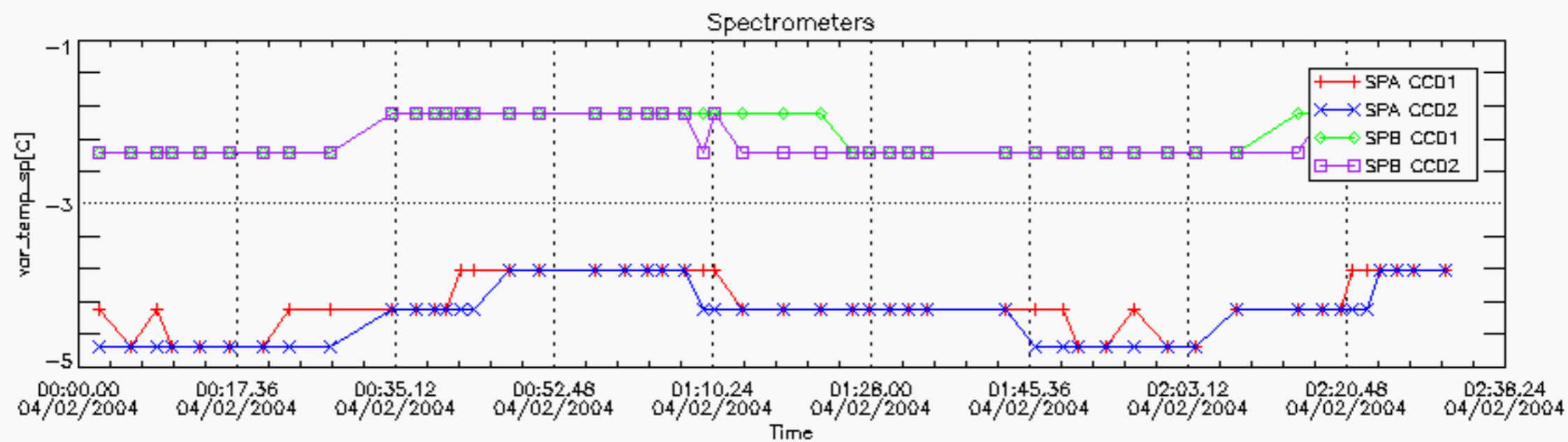
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

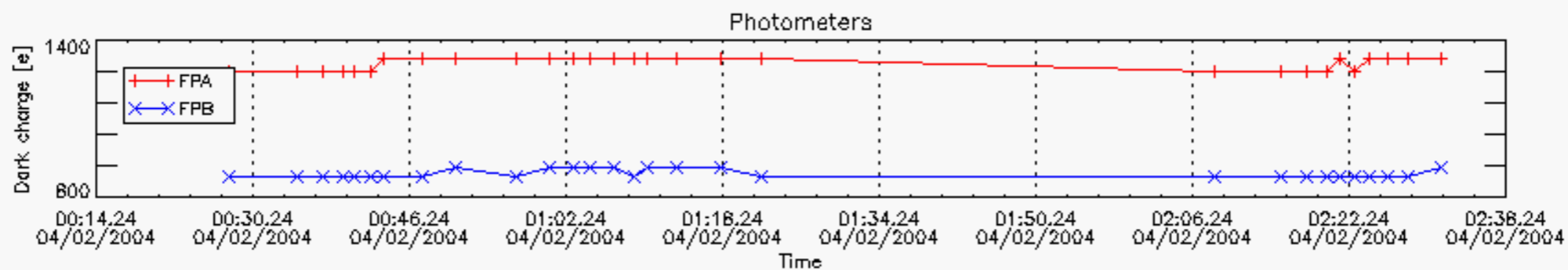
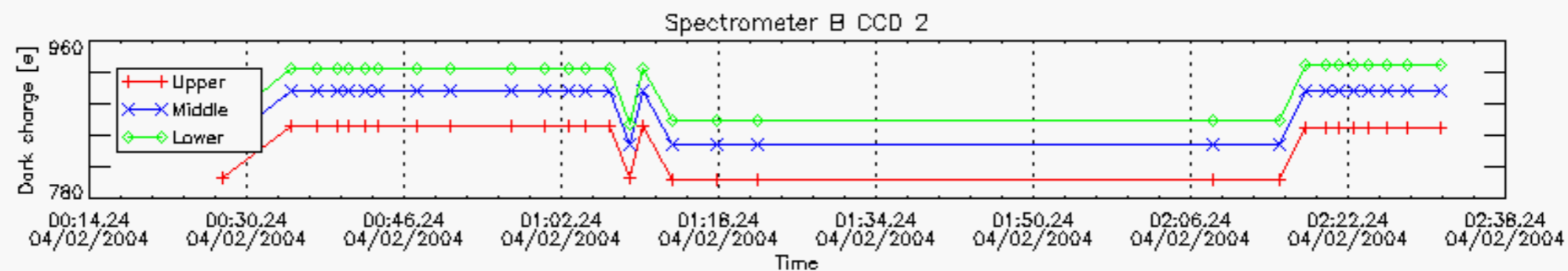
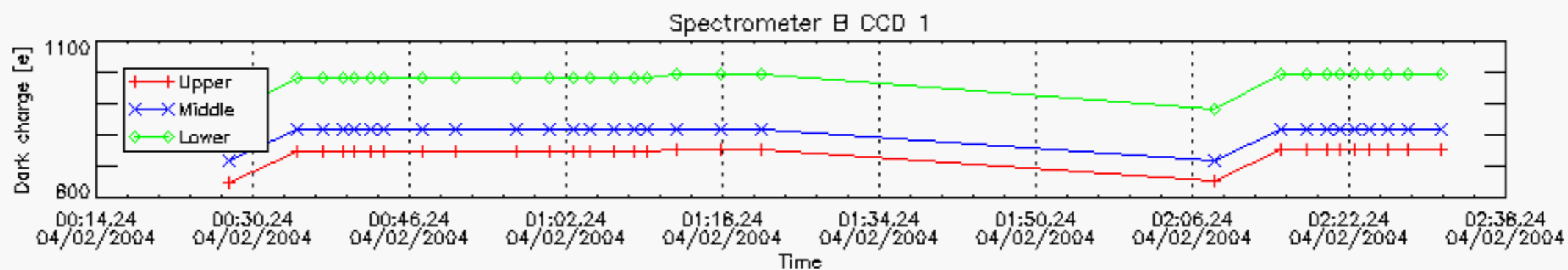
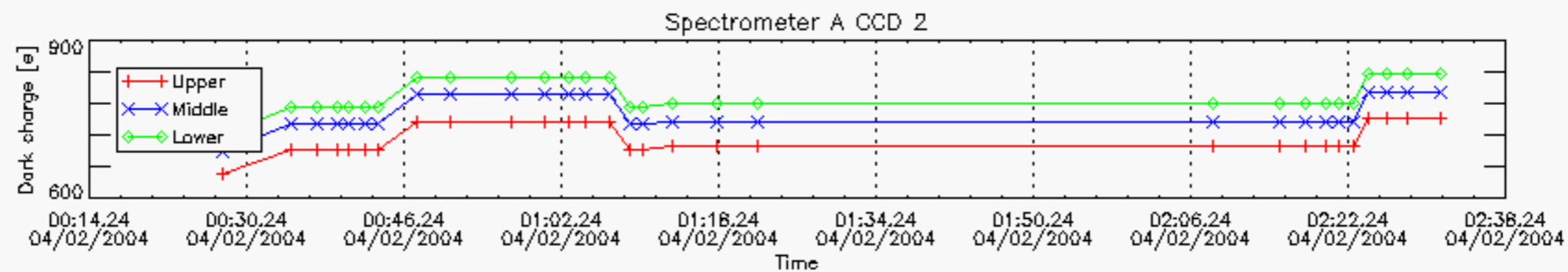
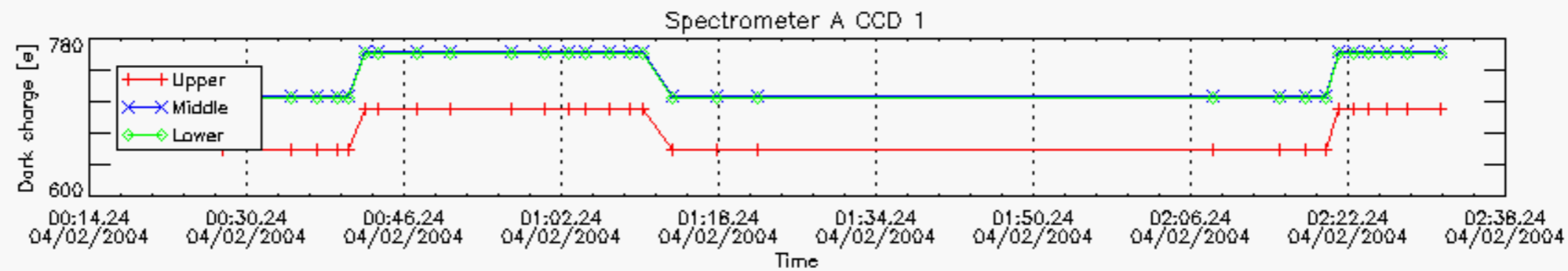
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

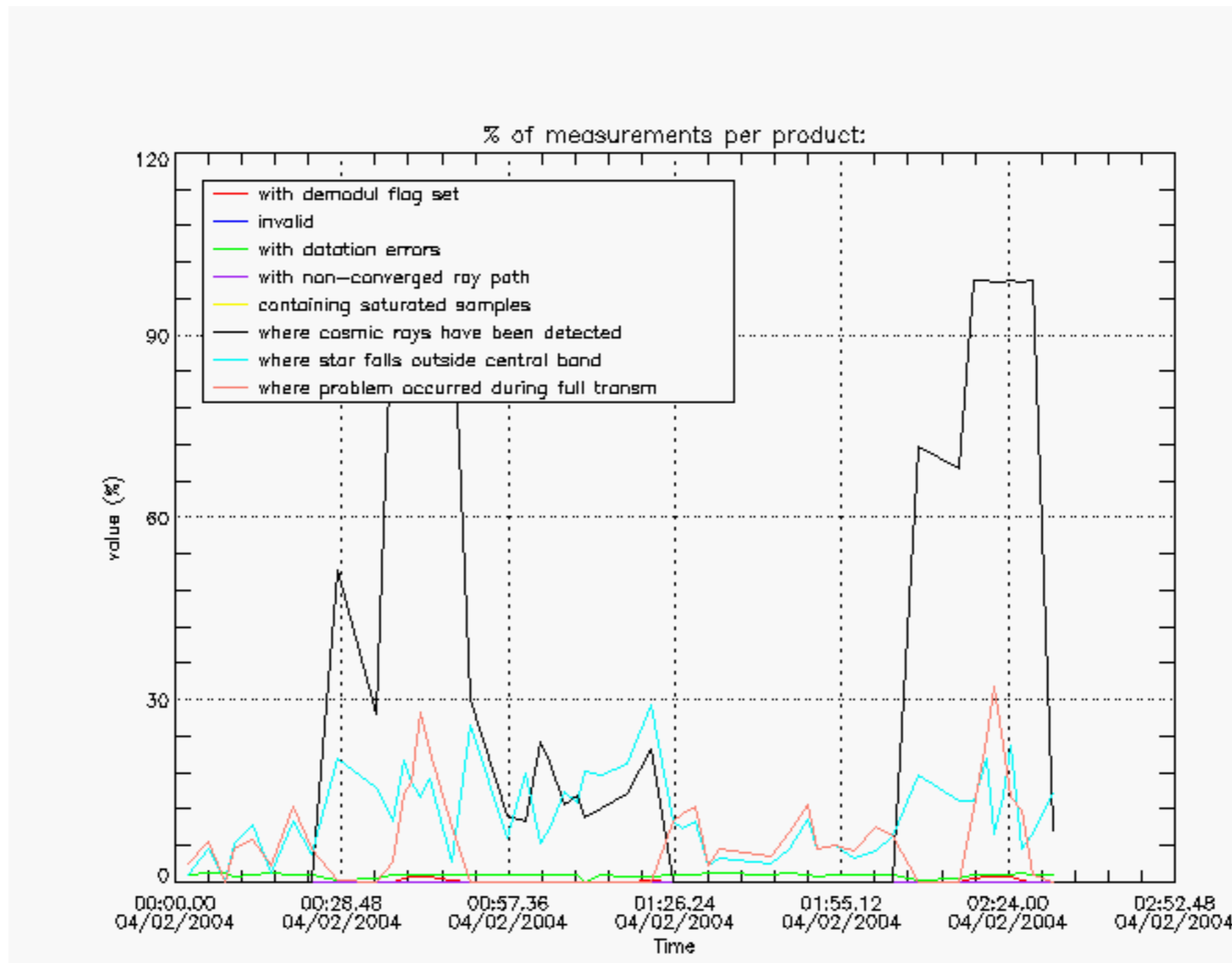
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.0	1447.1	1460.9	1447.3
St. deviation:	4.9771	6.4619	6.2598	7.5806
Maximum:	1551.0	1598.0	1495.0	1491.0
Minimum:	1452.0	1422.0	1436.0	1423.0
Number of data:	35500.	35500.	23050.	23050.



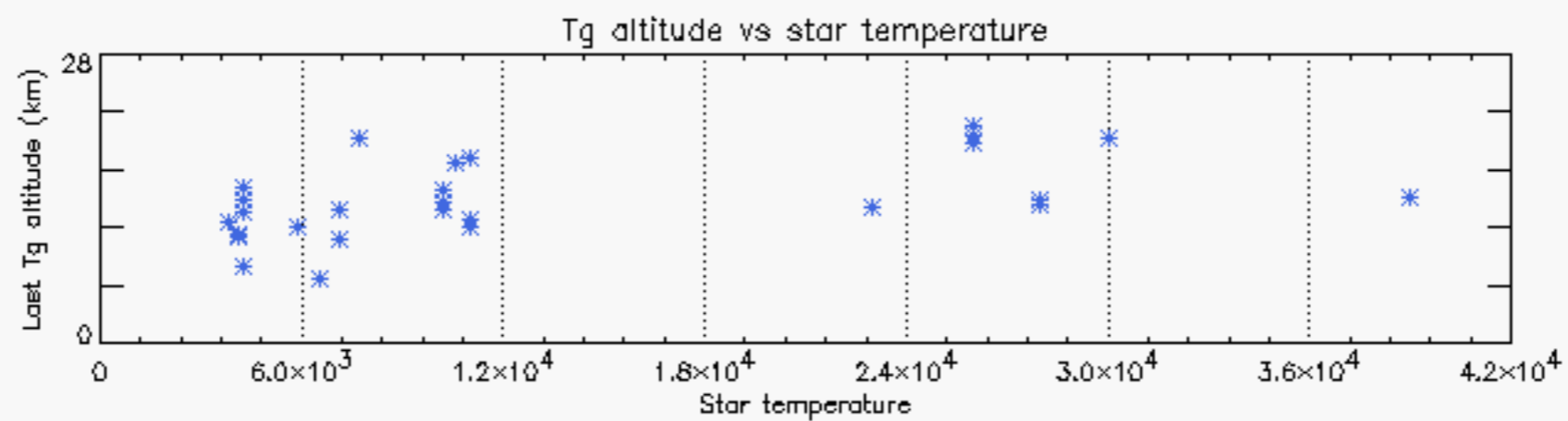
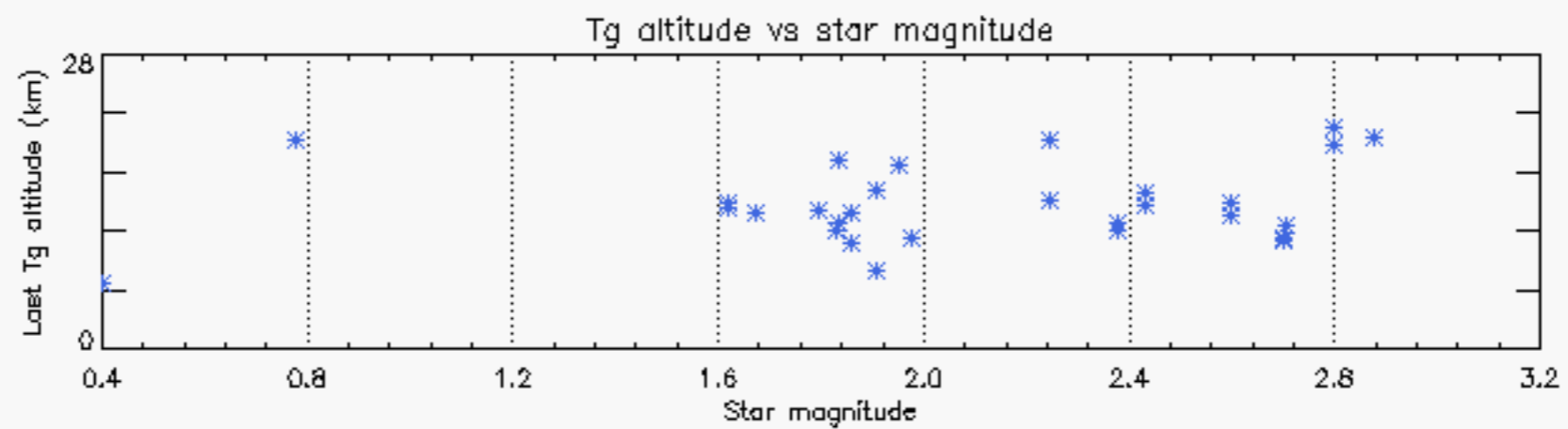
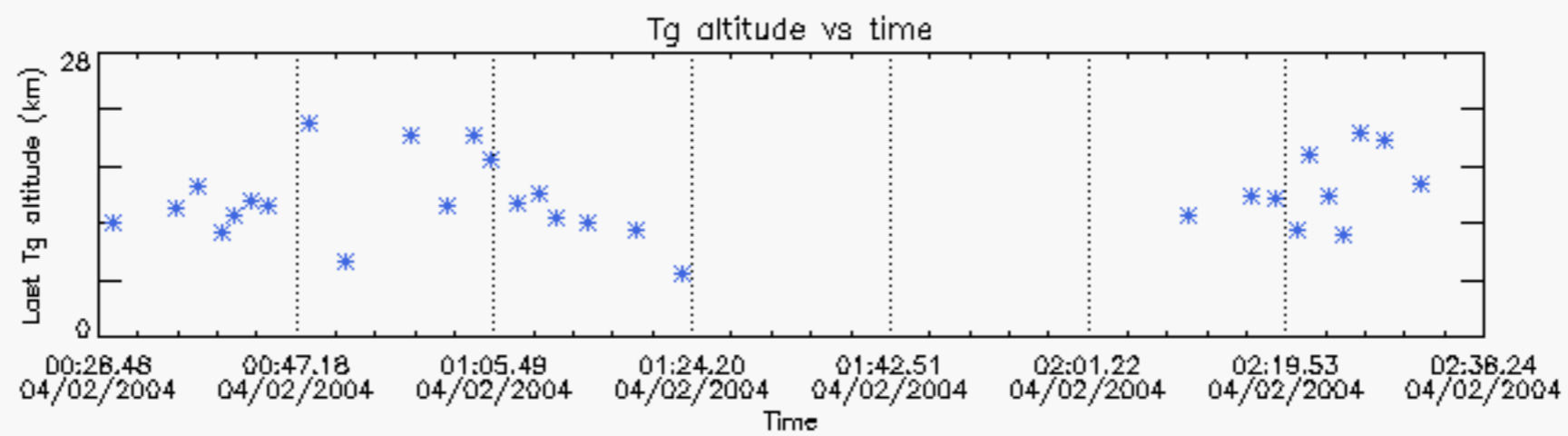




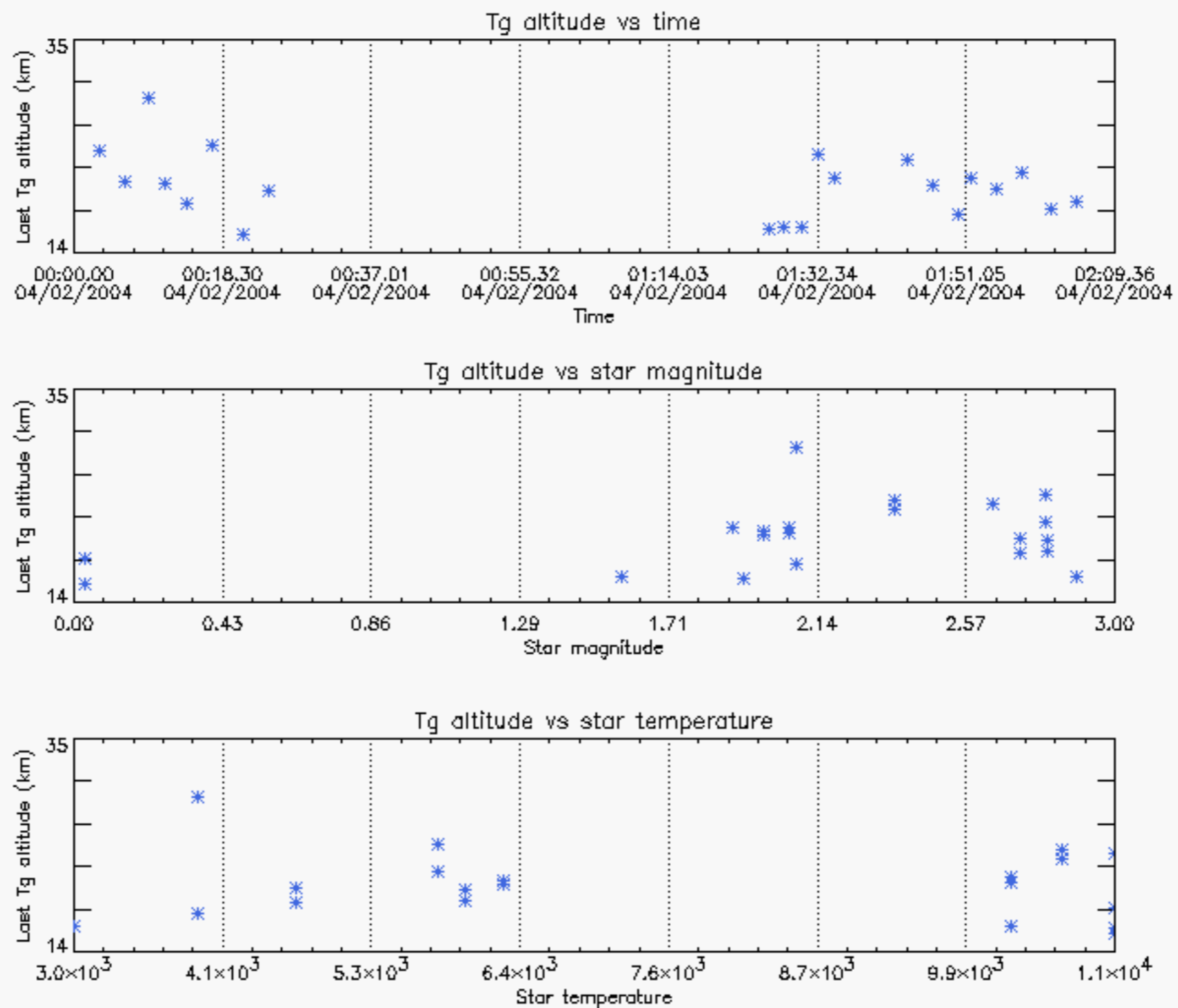




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040201_061239_000061992023_00478_10051_0894.N1

1; -4392.0; 01-FEB-2004 06:12:39; Dark ; 48.5; 1; 9Alp CMa ; -1.44; 11000;occ; 97; 0;10051
 2; -4292.9; 01-FEB-2004 06:14:18; Dark ; 69.5; 48; 30Alp Hya ; 1.98; 4100;occ; 139; 0;10051
 3; -4044.3; 01-FEB-2004 06:18:27; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;10051
 4; -3950.7; 01-FEB-2004 06:20:00; Bright; 50.5; 14; 58Alp Ori ; 0.87; 3000;occ; 101; 0;10051
 5; -3838.1; 01-FEB-2004 06:21:53; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;10051
 6; -3728.1; 01-FEB-2004 06:23:43; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;10051
 7; -3642.3; 01-FEB-2004 06:25:09; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;10051
 8; -3470.2; 01-FEB-2004 06:28:01; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;10051
 9; -3344.7; 01-FEB-2004 06:30:06; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;10051
 10; -2779.1; 01-FEB-2004 06:39:32; Bright; 50.5; 82; 48Bet UMa ; 2.37; 10600;occ; 101; 0;10051
 11; -2609.3; 01-FEB-2004 06:42:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;10051
 12; -2423.0; 01-FEB-2004 06:45:28; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;10051
 13; -2302.7; 01-FEB-2004 06:47:28; Bright; 63.5; 55; 79Zet UMa ; 2.06; 10200;occ; 127; 0;10051
 14; -2140.4; 01-FEB-2004 06:50:11; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;10051
 15; -1950.4; 01-FEB-2004 06:53:20; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;10051
 16; -1732.9; 01-FEB-2004 06:56:58; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;10051
 17; -1550.9; 01-FEB-2004 07:00:00; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;10051
 18; -1305.5; 01-FEB-2004 07:04:05; Bright; 98.5; 83; ; 2.38; 11000;occ; 197; 0;10051
 19; -1113.1; 01-FEB-2004 07:07:18; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;10051
 20; -902.4; 01-FEB-2004 07:10:48; Dark ; 70.0; 102; 24Alp Ser ; 2.60; 4250;occ; 140; 0;10051
 21; -724.8; 01-FEB-2004 07:13:46; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;10051
 22; -561.2; 01-FEB-2004 07:16:30; Dark ; 40.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 81; 0;10051
 23; -466.6; 01-FEB-2004 07:18:04; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;10051
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7;-3465.9; 02-FEB-2004 14:19:27; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;10070
8;-3341.2; 02-FEB-2004 14:21:32; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;10070
9;-2794.5; 02-FEB-2004 14:30:39; Bright; 48.0; 82; 48Bet UMa ; 2.37; 10600;occ; 96; 0;10070
10;-2609.0; 02-FEB-2004 14:33:44; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;10070
11;-2427.7; 02-FEB-2004 14:36:46; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;10070
12;-2318.1; 02-FEB-2004 14:38:35; Bright; 57.5; 55; 79Zet UMa ; 2.06; 10200;occ; 115; 0;10070
13;-2143.7; 02-FEB-2004 14:41:30; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;10070
14;-1950.6; 02-FEB-2004 14:44:43; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;10070
15;-1730.0; 02-FEB-2004 14:48:23; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;10070
16;-1548.1; 02-FEB-2004 14:51:25; Bright; 45.0; 133; 40Zet Her ; 2.81; 6000;occ; 90; 0;10070
17;-1290.8; 02-FEB-2004 14:55:42; Dark ; 111.0; 83; ; 2.38; 11000;occ; 222; 0;10070
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19; -715.1; 02-FEB-2004 15:05:18; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;10070
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21; -453.1; 02-FEB-2004 15:09:40; Dark ; 52.5; 16; 21Alp Sco ; 1.02; 3000;occ; 105; 0;10070
22; -326.5; 02-FEB-2004 15:11:47; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;10070
23; -214.4; 02-FEB-2004 15:13:39; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;10070
24; -104.6; 02-FEB-2004 15:15:29; Dark ; 44.0; 131; Gam Lup ; 2.80; 26000;occ; 88; 0;10070
25; 31.1; 02-FEB-2004 15:17:44; Dark ; 46.0; 109; Bet Lup ; 2.68; 26000;occ; 92; 0;10071
26; 199.8; 02-FEB-2004 15:20:33; Dark ; 38.5; 145; Gam TrA ; 2.87; 10600;occ; 77; 0;10071
27; 275.3; 02-FEB-2004 15:21:49; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10071
28; 477.3; 02-FEB-2004 15:25:11; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;10071
29; 684.6; 02-FEB-2004 15:28:38; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;10071
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31; 1082.3; 02-FEB-2004 15:35:16; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;10071
32; 1207.2; 02-FEB-2004 15:37:20; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;10071
33; 1288.2; 02-FEB-2004 15:38:41; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;10071

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2;	-4564.0;	02-FEB-2004	15:41:45;	Dark	;	41.5;	37;	25Del CMA	;	1.83;	5900;	occ;	83;	0;	10071
3;	-4388.2;	02-FEB-2004	15:44:41;	Dark	;	46.0;	1;	9Alp CMA	;	-1.44;	11000;	occ;	92;	0;	10071
4;	-4294.5;	02-FEB-2004	15:46:15;	Dark	;	69.0;	48;	30Alp Hya	;	1.98;	4100;	occ;	138;	0;	10071
5;	-4044.2;	02-FEB-2004	15:50:25;	Dark	;	51.5;	8;	10Alp CMi	;	0.40;	6500;	occ;	103;	0;	10071
6;	-3835.3;	02-FEB-2004	15:53:54;	Bright;		39.0;	44;	24Gam Gem	;	1.93;	11000;	occ;	78;	0;	10071
7;	-3724.5;	02-FEB-2004	15:55:45;	Bright;		40.5;	151;	13Mu Gem	;	2.89;	3000;	occ;	81;	0;	10071
8;	-3582.7;	02-FEB-2004	15:58:07;	Bright;		39.0;	24;	66Alp Gem	;	1.58;	10200;	occ;	78;	0;	10071
9;	-3466.1;	02-FEB-2004	16:00:03;	Bright;		38.0;	107;	37The Aur	;	2.65;	11000;	occ;	76;	0;	10071
10;	-3341.2;	02-FEB-2004	16:02:08;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;	occ;	74;	0;	10071
11;	-2795.7;	02-FEB-2004	16:11:14;	Bright;		48.5;	82;	48Bet UMA	;	2.37;	10600;	occ;	97;	0;	10071
12;	-2609.3;	02-FEB-2004	16:14:20;	Bright;		37.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	75;	0;	10071
13;	-2428.0;	02-FEB-2004	16:17:21;	Bright;		42.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	85;	0;	10071
14;	-2319.3;	02-FEB-2004	16:19:10;	Bright;		59.0;	55;	79Zet UMA	;	2.06;	10200;	occ;	118;	0;	10071
15;	-2144.3;	02-FEB-2004	16:22:05;	Bright;		42.5;	119;	14Eta Dra	;	2.73;	4700;	occ;	85;	0;	10071
16;	-1950.7;	02-FEB-2004	16:25:19;	Bright;		38.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	76;	0;	10071
17;	-1730.1;	02-FEB-2004	16:28:59;	Bright;		35.0;	5;	3Alp Lyr	;	0.03;	11000;	occ;	70;	0;	10071
18;	-1548.1;	02-FEB-2004	16:32:01;	Bright;		57.0;	133;	40Zet Her	;	2.81;	6000;	occ;	114;	0;	10071
19;	-1290.4;	02-FEB-2004	16:36:19;	Dark	;	114.0;	83;		;	2.38;	11000;	occ;	228;	0;	10071
20;	-881.9;	02-FEB-2004	16:43:07;	Dark	;	74.5;	102;	24Alp Ser	;	2.60;	4250;	occ;	149;	0;	10071
21;	-714.6;	02-FEB-2004	16:45:55;	Dark	;	47.0;	86;	35Eta Oph	;	2.43;	10200;	occ;	94;	0;	10071
22;	-556.4;	02-FEB-2004	16:48:33;	Dark	;	42.5;	167;	10Gam2Sgr	;	2.98;	4500;	occ;	85;	0;	10071
23;	-452.6;	02-FEB-2004	16:50:17;	Dark	;	53.0;	16;	21Alp Sco	;	1.02;	3000;	occ;	106;	0;	10071
24;	-326.4;	02-FEB-2004	16:52:23;	Dark	;	43.0;	40;	The Sco	;	1.86;	7100;	occ;	86;	0;	10071
25;	-214.0;	02-FEB-2004	16:54:15;	Dark	;	38.5;	147;	Alp Ara	;	2.88;	26000;	occ;	77;	0;	10071
26;	-103.6;	02-FEB-2004	16:56:06;	Dark	;	44.0;	131;	Gam Lup	;	2.80;	26000;	occ;	88;	0;	10071
27;	32.2;	02-FEB-2004	16:58:22;	Dark	;	46.5;	109;	Bet Lup	;	2.68;	26000;	occ;	93;	0;	10072
28;	200.1;	02-FEB-2004	17:01:09;	Dark	;	39.0;	145;	Gam TrA	;	2.87;	10600;	occ;	78;	0;	10072
29;	275.4;	02-FEB-2004	17:02:25;	Dark	;	58.5;	0;		;	0.00;	0;	occ;	117;	0;	10072
30;	478.2;	02-FEB-2004	17:05:48;	Dark	;	43.0;	12;	Alp1Cru	;	0.77;	30000;	occ;	86;	0;	10072
31;	685.0;	02-FEB-2004	17:09:14;	Dark	;	47.0;	29;	Bet Car	;	1.67;	10200;	occ;	94;	0;	10072
32;	878.6;	02-FEB-2004	17:12:28;	Dark	;	47.5;	41;	Eps Car	;	1.86;	4100;	occ;	95;	0;	10072
33;	1082.8;	02-FEB-2004	17:15:52;	Dark	;	43.0;	34;	Gam2Vel	;	1.79;	23000;	occ;	86;	0;	10072
34;	1207.8;	02-FEB-2004	17:17:57;	Dark	;	8.0;	70;	Zet Pup	;	2.25;	39000;	occ;	16;	0;	10072

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2;	-4747.0;	02-FEB-2004	17:19:18;	Dark	;	43.5;	117;	Pi Pup	;	2.71;	3800;	occ;	87;	0;	10072
3;	-4563.8;	02-FEB-2004	17:22:22;	Dark	;	42.5;	37;	25Del CMA	;	1.83;	5900;	occ;	85;	0;	10072
4;	-4388.0;	02-FEB-2004	17:25:17;	Dark	;	48.5;	1;	9Alp CMA	;	-1.44;	11000;	occ;	97;	0;	10072
5;	-4294.2;	02-FEB-2004	17:26:51;	Dark	;	62.0;	48;	30Alp Hya	;	1.98;	4100;	occ;	124;	0;	10072
6;	-4043.9;	02-FEB-2004	17:31:01;	Dark	;	53.0;	8;	10Alp CMi	;	0.40;	6500;	occ;	106;	0;	10072
7;	-3834.9;	02-FEB-2004	17:34:30;	Bright;		39.5;	44;	24Gam Gem	;	1.93;	11000;	occ;	79;	0;	10072
8;	-3724.0;	02-FEB-2004	17:36:21;	Bright;		39.5;	151;	13Mu Gem	;	2.89;	3000;	occ;	79;	0;	10072
9;	-3582.6;	02-FEB-2004	17:38:43;	Bright;		40.5;	24;	66Alp Gem	;	1.58;	10200;	occ;	81;	0;	10072
10;	-3465.5;	02-FEB-2004	17:40:40;	Bright;		37.0;	107;	37The Aur	;	2.65;	11000;	occ;	74;	0;	10072
11;	-3340.6;	02-FEB-2004	17:42:45;	Bright;		36.5;	42;	34Bet Aur	;	1.90;	10200;	occ;	73;	0;	10072
12;	-2797.0;	02-FEB-2004	17:51:48;	Bright;		50.0;	82;	48Bet UMA	;	2.37;	10600;	occ;	100;	0;	10072
13;	-2609.2;	02-FEB-2004	17:54:56;	Bright;		37.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	75;	0;	10072
14;	-2428.1;	02-FEB-2004	17:57:57;	Bright;		42.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	85;	0;	10072
15;	-2319.7;	02-FEB-2004	17:59:46;	Bright;		58.5;	55;	79Zet UMA	;	2.06;	10200;	occ;	117;	0;	10072
16;	-2144.1;	02-FEB-2004	18:02:41;	Bright;		40.0;	119;	14Eta Dra	;	2.73;	4700;	occ;	80;	0;	10072
17;	-1950.6;	02-FEB-2004	18:05:55;	Bright;		37.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	74;	0;	10072
18;	-1729.8;	02-FEB-2004	18:09:35;	Bright;		38.0;	5;	3Alp Lyr	;	0.03;	11000;	occ;	76;	0;	10072
19;	-1548.1;	02-FEB-2004	18:12:37;	Bright;		45.0;	133;	40Zet Her	;	2.81;	6000;	occ;	90;	0;	10072
20;	-1289.5;	02-FEB-2004	18:16:56;	Dark	;	119.0;	83;		;	2.38;	11000;	occ;	238;	0;	10072
21;	-883.2;	02-FEB-2004	18:23:42;	Dark	;	76.5;	102;	24Alp Ser	;	2.60;	4250;	occ;	153;	0;	10072
22;	-713.9;	02-FEB-2004	18:26:31;	Dark	;	47.5;	86;	35Eta Oph	;	2.43;	10200;	occ;	95;	0;	10072
23;	-555.9;	02-FEB-2004	18:29:09;	Dark	;	41.0;	167;	10Gam2Sgr	;	2.98;	4500;	occ;	82;	0;	10072
24;	-451.6;	02-FEB-2004	18:30:54;	Dark	;	60.0;	16;	21Alp Sco	;	1.02;	3000;	occ;	120;	0;	10072
25;	-326.0;	02-FEB-2004	18:32:59;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;	occ;	83;	0;	10072
26;	-213.5;	02-FEB-2004	18:34:52;	Dark	;	37.5;	147;	Alp Ara	;	2.88;	26000;	occ;	75;	0;	10072
27;	-102.4;	02-FEB-2004	18:36:43;	Dark	;	44.5;	131;	Gam Lup	;	2.80;	26000;	occ;	89;	0;	10072
28;	33.2;	02-FEB-2004	18:38:59;	Dark	;	45.5;	109;	Bet Lup	;	2.68;	26000;	occ;	91;	0;	10073
29;	200.7;	02-FEB-2004	18:41:46;	Dark	;	39.0;	145;	Gam TrA	;	2.87;	10600;	occ;	78;	0;	10073
30;	275.5;	02-FEB-2004	18:43:01;	Dark	;	58.5;	0;		;	0.00;	0;	occ;	117;	0;	10073
31;	479.0;	02-FEB-2004	18:46:24;	Dark	;	52.0;	12;	Alp1Cru	;	0.77;	30000;	occ;	104;	0;	10073
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16;-2320.8; 02-FEB-2004 19:40:20; Bright; 58.5; 55; 79Zet UMa ; 2.06; 10200;occ; 117; 0;10073
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23; -713.2; 02-FEB-2004 20:07:08; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;10073
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27;	484.6;	03-FEB-2004	11:32:29;	Dark	;	43.0;	12;	Alp1Cru	;	0.77;	30000;occ;	86;	0;	10083
28;	687.3;	03-FEB-2004	11:35:52;	Dark	;	45.5;	29;	Bet Car	;	1.67;	10200;occ;	91;	0;	10083
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2;	-4385.9;	03-FEB-2004	11:51:54;	Dark	;	50.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	101;	0;	10083
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4;	-3832.9;	03-FEB-2004	12:01:07;	Bright;	;	37.5;	44;	24Gam Gem	;	1.93;	11000;occ;	75;	0;	10083
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6;	-3583.6;	03-FEB-2004	12:05:17;	Bright;	;	39.5;	24;	66Alp Gem	;	1.58;	10200;occ;	79;	0;	10083
7;	-3462.6;	03-FEB-2004	12:07:18;	Bright;	;	37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	10083
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29;	687.5;	03-FEB-2004	13:16:28;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	10084
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4;	-3832.7;	03-FEB-2004	13:41:44;	Bright;	;	38.5;	44;	24Gam Gem	;	1.93;	11000;occ;	77;	0;	10084
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