

GOMOS Daily Report 03-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	04FEB2004 06:54:23
Data source version	<Any version>
Start time of products	03-FEB-2004 (03FEB2004 00:00:00)
Stop time of products	04-FEB-2004 (04FEB2004 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

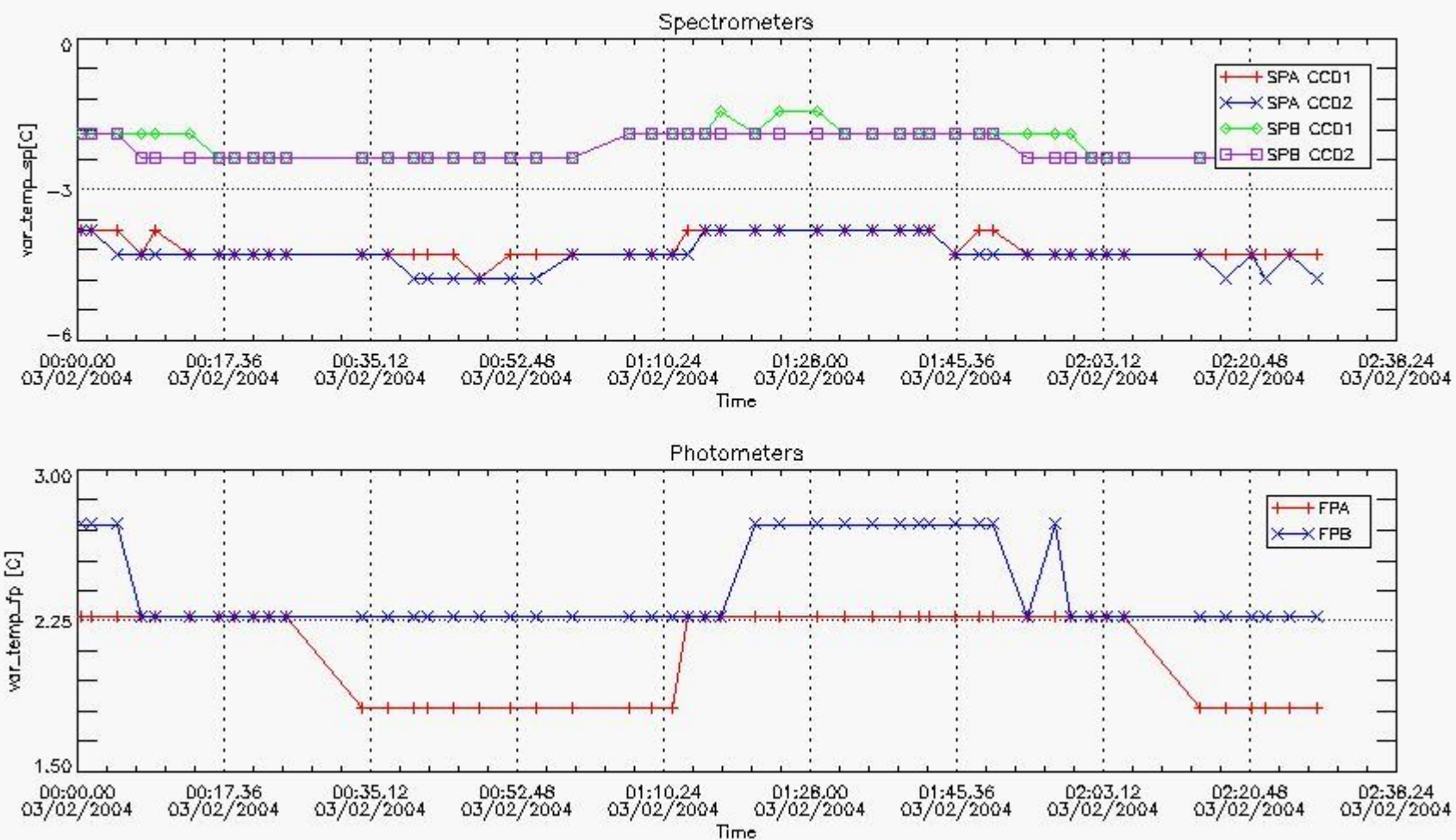
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040203_000019_000000432024_00002_10076_0034.N1	03-FEB-2004 00:00:19	Dark	43.000	70	Zet Pup	2.2460	39000.	86	10076	No
GOM_TRA_1PNPDE20040203_000142_000000472024_00002_10076_0000.N1	03-FEB-2004 00:01:42	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	10076	No
GOM_TRA_1PNPDE20040203_000445_000000452024_00002_10076_0001.N1	03-FEB-2004 00:04:45	Dark	44.500	37	25Del CMa	1.8300	5900.0	89	10076	No
GOM_TRA_1PNPDE20040203_000742_000000482024_00002_10076_0002.N1	03-FEB-2004 00:07:42	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	10076	No
GOM_TRA_1PNPDE20040203_000914_000000622024_00002_10076_0003.N1	03-FEB-2004 00:09:14	Dark	61.500	48	30Alp Hya	1.9770	4100.0	123	10076	No
GOM_TRA_1PNPDE20040203_001325_000000482024_00002_10076_0004.N1	03-FEB-2004 00:13:25	Dark	48.000	8	10Alp CMi	0.40000	6500.0	96	10076	No
GOM_TRA_1PNPDE20040203_001654_000000422024_00002_10076_0005.N1	03-FEB-2004 00:16:54	Bright	41.500	44	24Gam Gem	1.9280	11000.	83	10076	No
GOM_TRA_1PNPDE20040203_001845_000000422024_00002_10076_0006.N1	03-FEB-2004 00:18:45	Bright	41.500	151	13Mu Gem	2.8900	3000.0	83	10076	No
GOM_TRA_1PNPDE20040203_002105_000000382024_00002_10076_0007.N1	03-FEB-2004 00:21:05	Bright	38.000	24	66Alp Gem	1.5800	10200.	76	10076	No
GOM_TRA_1PNPDE20040203_002304_000000392024_00002_10076_0008.N1	03-FEB-2004 00:23:04	Bright	39.000	107	37The Aur	2.6490	11000.	78	10076	No
GOM_TRA_1PNPDE20040203_002508_000000372024_00002_10076_0009.N1	03-FEB-2004 00:25:08	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	10076	No
GOM_TRA_1PNPDE20040203_003409_000000492024_00002_10076_0010.N1	03-FEB-2004 00:34:09	Bright	49.000	82	48Bet UMa	2.3650	10600.	98	10076	No
GOM_TRA_1PNPDE20040203_003719_000000342024_00002_10076_0011.N1	03-FEB-2004 00:37:19	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	10076	No
GOM_TRA_1PNPDE20040203_004019_000000372024_00002_10076_0012.N1	03-FEB-2004 00:40:19	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	10076	No
GOM_TRA_1PNPDE20040203_004207_000000572024_00002_10076_0013.N1	03-FEB-2004 00:42:07	Bright	56.500	55	79Zet UMa	2.0600	10200.	113	10076	No
GOM_TRA_1PNPDE20040203_004503_000000432024_00002_10076_0014.N1	03-FEB-2004 00:45:03	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	10076	No
GOM_TRA_1PNPDE20040203_004818_000000382024_00002_10076_0015.N1	03-FEB-2004 00:48:18	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	10076	No
GOM_TRA_1PNPDE20040203_005158_000000402024_00002_10076_0016.N1	03-FEB-2004 00:51:58	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	10076	No
GOM_TRA_1PNPDE20040203_005502_000000462024_00002_10076_0017.N1	03-FEB-2004 00:55:02	Bright	45.500	133	40Zet Her	2.8070	6000.0	91	10076	No
GOM_TRA_1PNPDE20040203_005923_000001182024_00002_10076_0018.N1	03-FEB-2004 00:59:23	Dark	117.50	83		2.3780	11000.	235	10076	No
GOM_TRA_1PNPDE20040203_010612_000000742024_00002_10076_0019.N1	03-FEB-2004 01:06:12	Dark	73.500	102	24Alp Ser	2.6000	4250.0	147	10076	No
GOM_TRA_1PNPDE20040203_010856_000000462024_00002_10076_0020.N1	03-FEB-2004 01:08:56	Dark	45.500	86	35Eta Oph	2.4300	10200.	91	10076	No
GOM_TRA_1PNPDE20040203_011131_000000442024_00002_10076_0021.N1	03-FEB-2004 01:11:31	Dark	43.500	167	10Gam2Sgr	2.9840	4500.0	87	10076	No
GOM_TRA_1PNPDE20040203_011318_000000532024_00002_10076_0022.N1	03-FEB-2004 01:13:18	Dark	52.500	16	21Alp Sco	1.0200	3000.0	105	10076	No
GOM_TRA_1PNPDE20040203_011523_000000442024_00002_10076_0023.N1	03-FEB-2004 01:15:23	Dark	44.000	40	The Sco	1.8590	7100.0	88	10076	No
GOM_TRA_1PNPDE20040203_011713_000000432024_00002_10076_0024.N1	03-FEB-2004 01:17:13	Dark	42.500	147	Alp Ara	2.8770	26000.	85	10076	No
GOM_TRA_1PNPDE20040203_012125_000000472024_00003_10077_0025.N1	03-FEB-2004 01:21:25	Dark	47.000	109	Bet Lup	2.6770	26000.	94	10077	No
GOM_TRA_1PNPDE20040203_012410_000000392024_00003_10077_0026.N1	03-FEB-2004 01:24:10	Dark	38.500	145	Gam TrA	2.8720	10600.	77	10077	No
GOM_TRA_1PNPDE20040203_012850_000000422024_00003_10077_0027.N1	03-FEB-2004 01:28:50	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	10077	No
GOM_TRA_1PNPDE20040203_013214_000000392024_00003_10077_0028.N1	03-FEB-2004 01:32:14	Dark	39.000	29	Bet Car	1.6720	10200.	78	10077	No
GOM_TRA_1PNPDE20040203_013527_000000482024_00003_10077_0029.N1	03-FEB-2004 01:35:27	Dark	48.000	41	Eps Car	1.8600	4100.0	96	10077	No
GOM_TRA_1PNPDE20040203_013850_000000442024_00003_10077_0030.N1	03-FEB-2004 01:38:50	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	10077	No
GOM_TRA_1PNPDE20040203_014057_000000442024_00003_10077_0031.N1	03-FEB-2004 01:40:57	Dark	43.500	70	Zet Pup	2.2460	39000.	87	10077	No
GOM_TRA_1PNPDE20040203_014216_000000452024_00003_10077_0032.N1	03-FEB-2004 01:42:16	Dark	45.000	117	Pi Pup	2.7060	3800.0	90	10077	No
GOM_TRA_1PNPDE20040203_014521_000000452024_00003_10077_0000.N1	03-FEB-2004 01:45:21	Dark	45.000	37	25Del CMa	1.8300	5900.0	90	10077	No
GOM_TRA_1PNPDE20040203_014817_000000482024_00003_10077_0001.N1	03-FEB-2004 01:48:17	Dark	48.000	1	9Alp CMa	-1.4400	11000.	96	10077	No
GOM_TRA_1PNPDE20040203_014951_000000612024_00003_10077_0002.N1	03-FEB-2004 01:49:51	Dark	60.500	48	30Alp Hya	1.9770	4100.0	121	10077	No
GOM_TRA_1PNPDE20040203_015400_000000522024_00003_10077_0003.N1	03-FEB-2004 01:54:00	Dark	51.500	8	10Alp CMi	0.40000	6500.0	103	10077	No
GOM_TRA_1PNPDE20040203_015730_000000412024_00003_10077_0004.N1	03-FEB-2004 01:57:30	Bright	40.500	44	24Gam Gem	1.9280	11000.	81	10077	No
GOM_TRA_1PNPDE20040203_015921_000000422024_00003_10077_0005.N1	03-FEB-2004 01:59:21	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	10077	No
GOM_TRA_1PNPDE20040203_020141_000000422024_00003_10077_0006.N1	03-FEB-2004 02:01:41	Bright	42.000	24	66Alp Gem	1.5800	10200.	84	10077	No
GOM_TRA_1PNPDE20040203_020340_000000382024_00003_10077_0007.N1	03-FEB-2004 02:03:40	Bright	37.500	107	37The Aur	2.6490	11000.	75	10077	No
GOM_TRA_1PNPDE20040203_020545_000000382024_00003_10077_0008.N1	03-FEB-2004 02:05:45	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	10077	No
GOM_TRA_1PNPDE20040203_021445_000000482024_00003_10077_0009.N1	03-FEB-2004 02:14:45	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	10077	No
GOM_TRA_1PNPDE20040203_021755_000000352024_00003_10077_0010.N1	03-FEB-2004 02:17:55	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	10077	No
GOM_TRA_1PNPDE20040203_022055_000000432024_00003_10077_0011.N1	03-FEB-2004 02:20:55	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	10077	No
GOM_TRA_1PNPDE20040203_022242_000000562024_00003_10077_0012.N1	03-FEB-2004 02:22:42	Bright	56.000	55	79Zet UMa	2.0600	10200.	112	10077	No
GOM_TRA_1PNPDE20040203_022539_000000442024_00003_10077_0013.N1	03-FEB-2004 02:25:39	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	10077	No
GOM_TRA_1PNPDE20040203_022853_000000392024_00003_10077_0014.N1	03-FEB-2004 02:28:53	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	10077	No

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



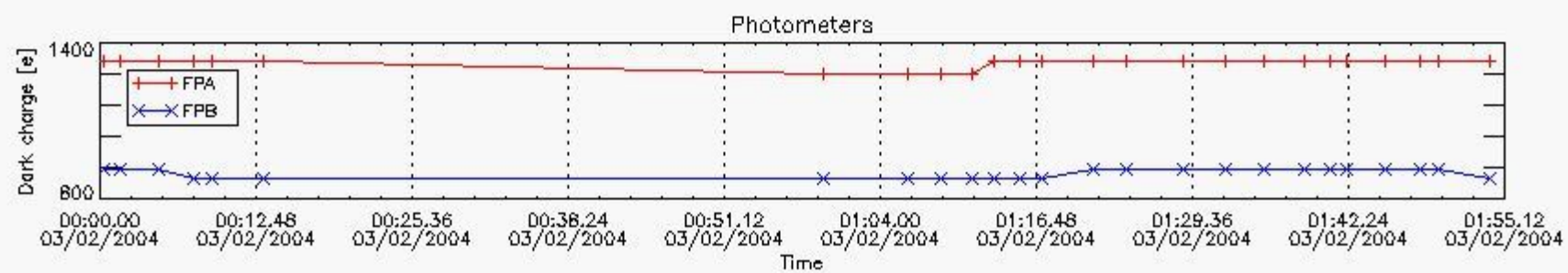
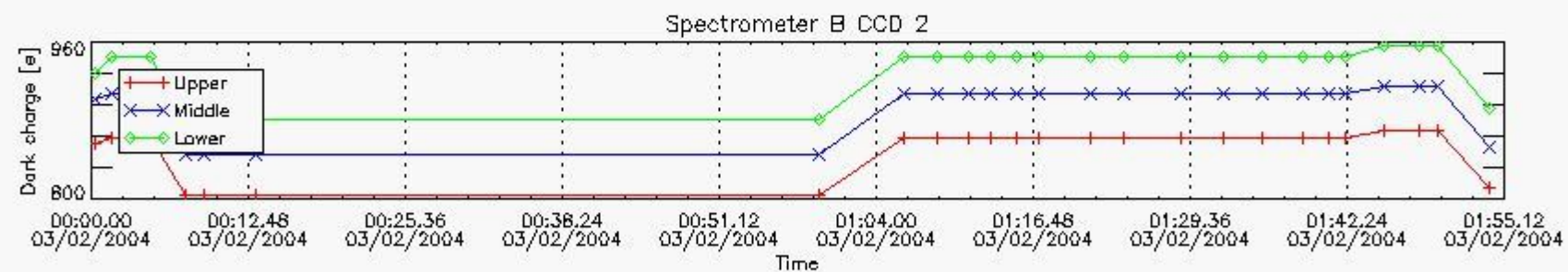
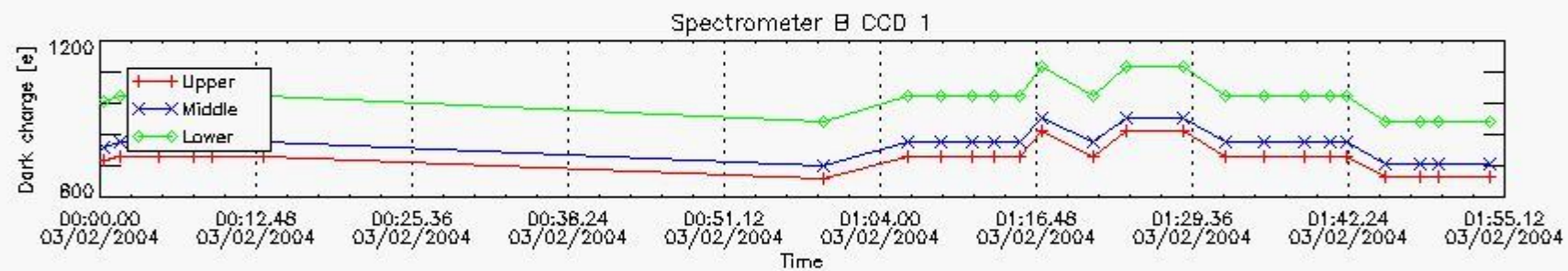
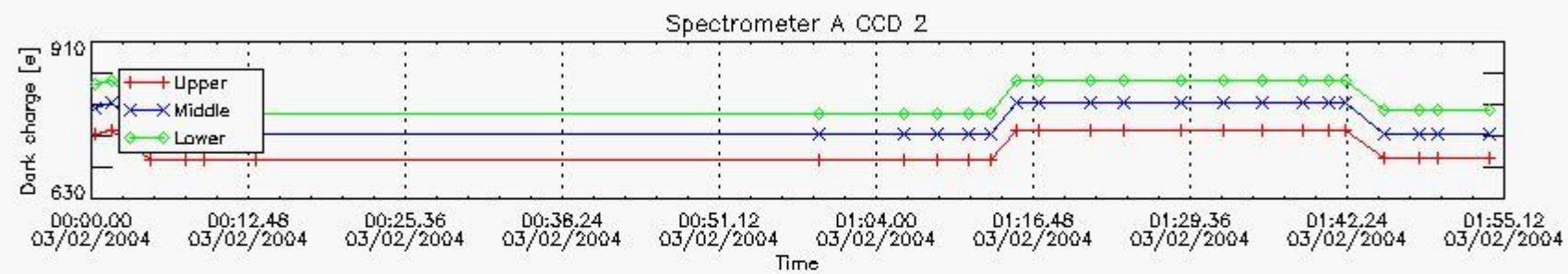
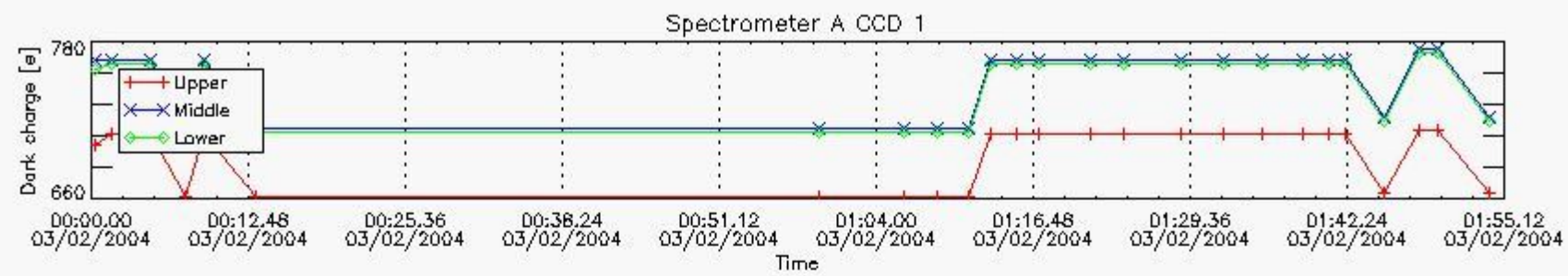
4. Overview of dark signal processing per product

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

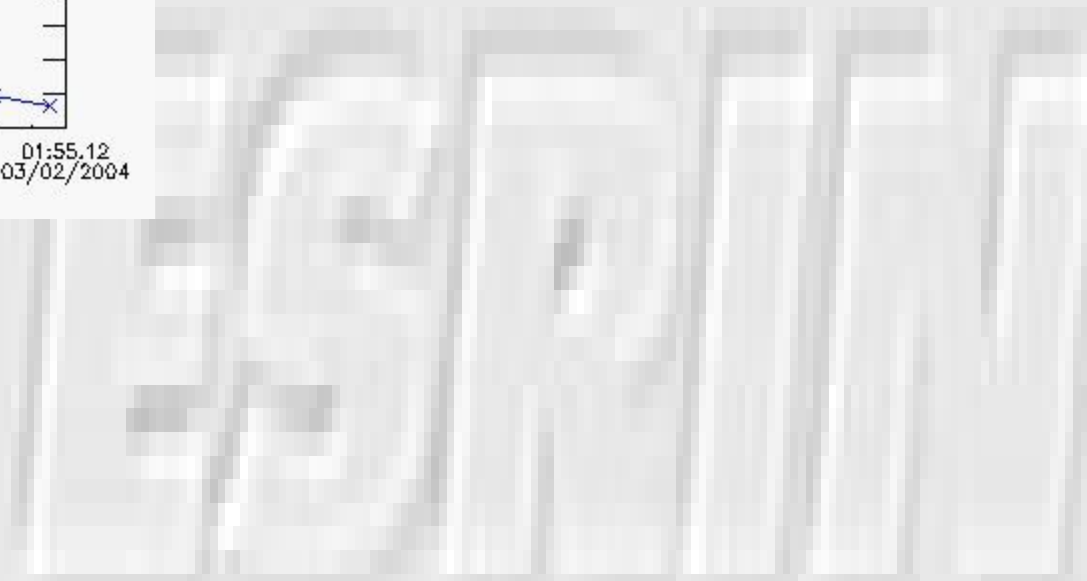
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



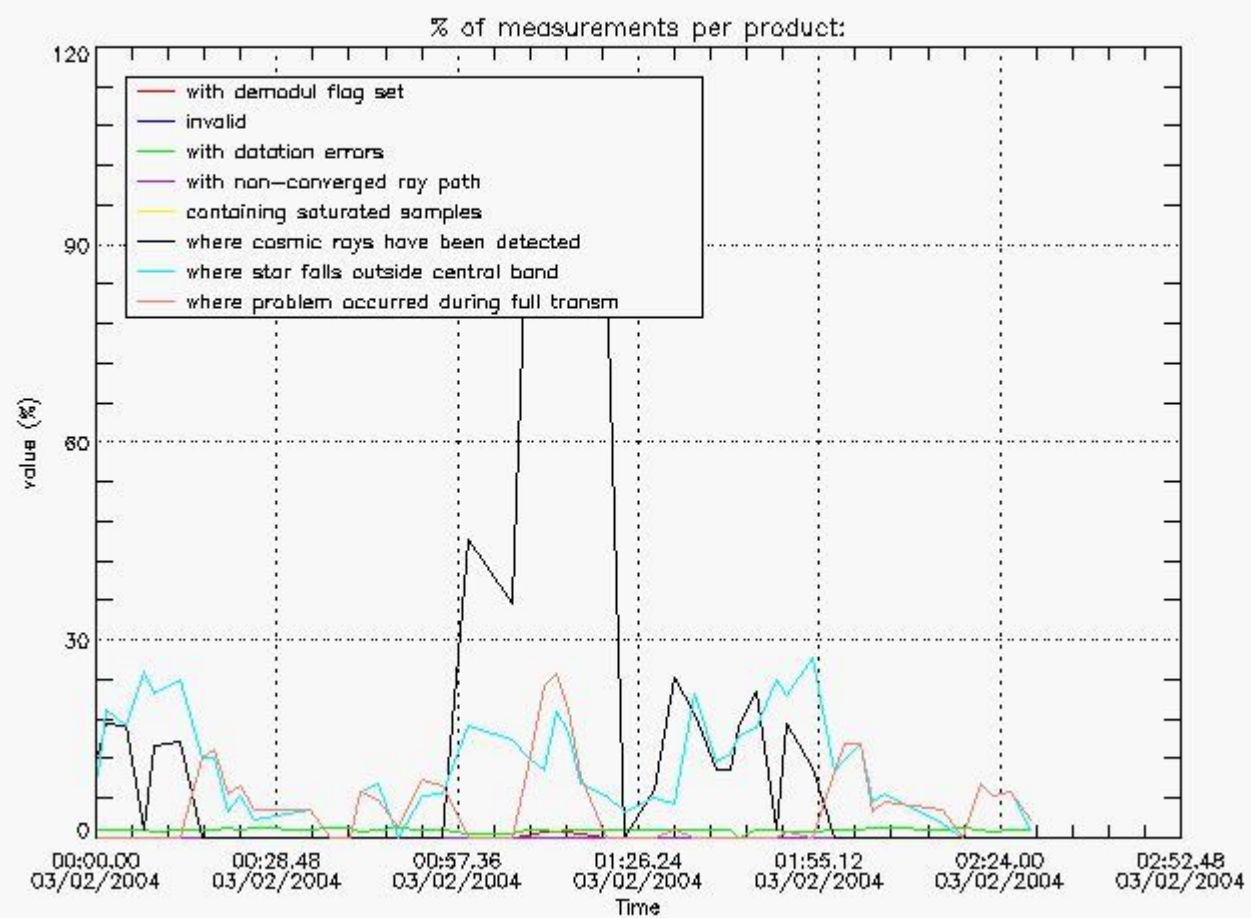
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.3673 %
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



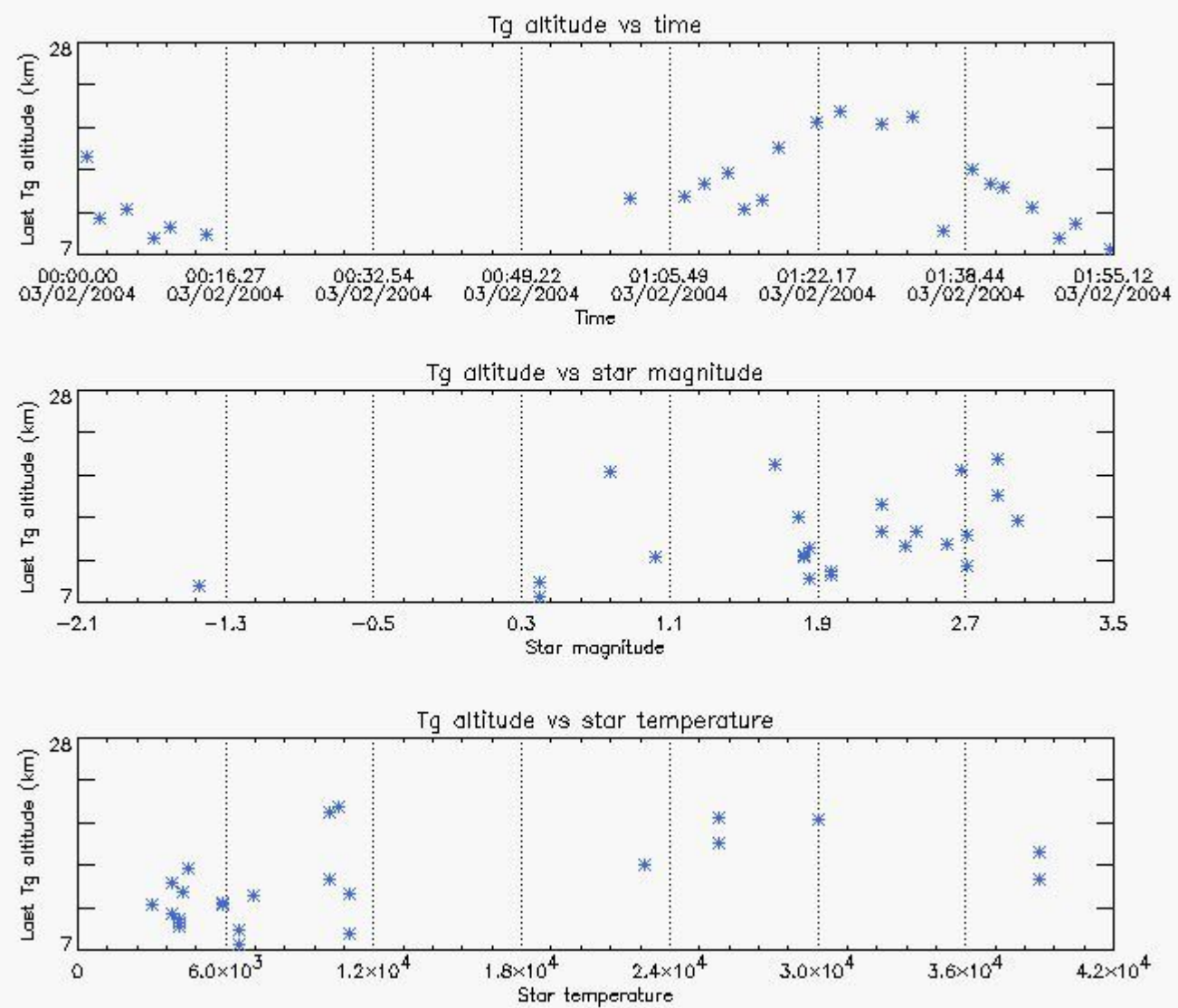
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.362	20.939
St. deviation:	4.0764	4.3213
Maximum:	21.246	28.964
Minimum:	7.5089	14.624
Number of data:	25.000	24.000

6.2 Plot for DARK limb products

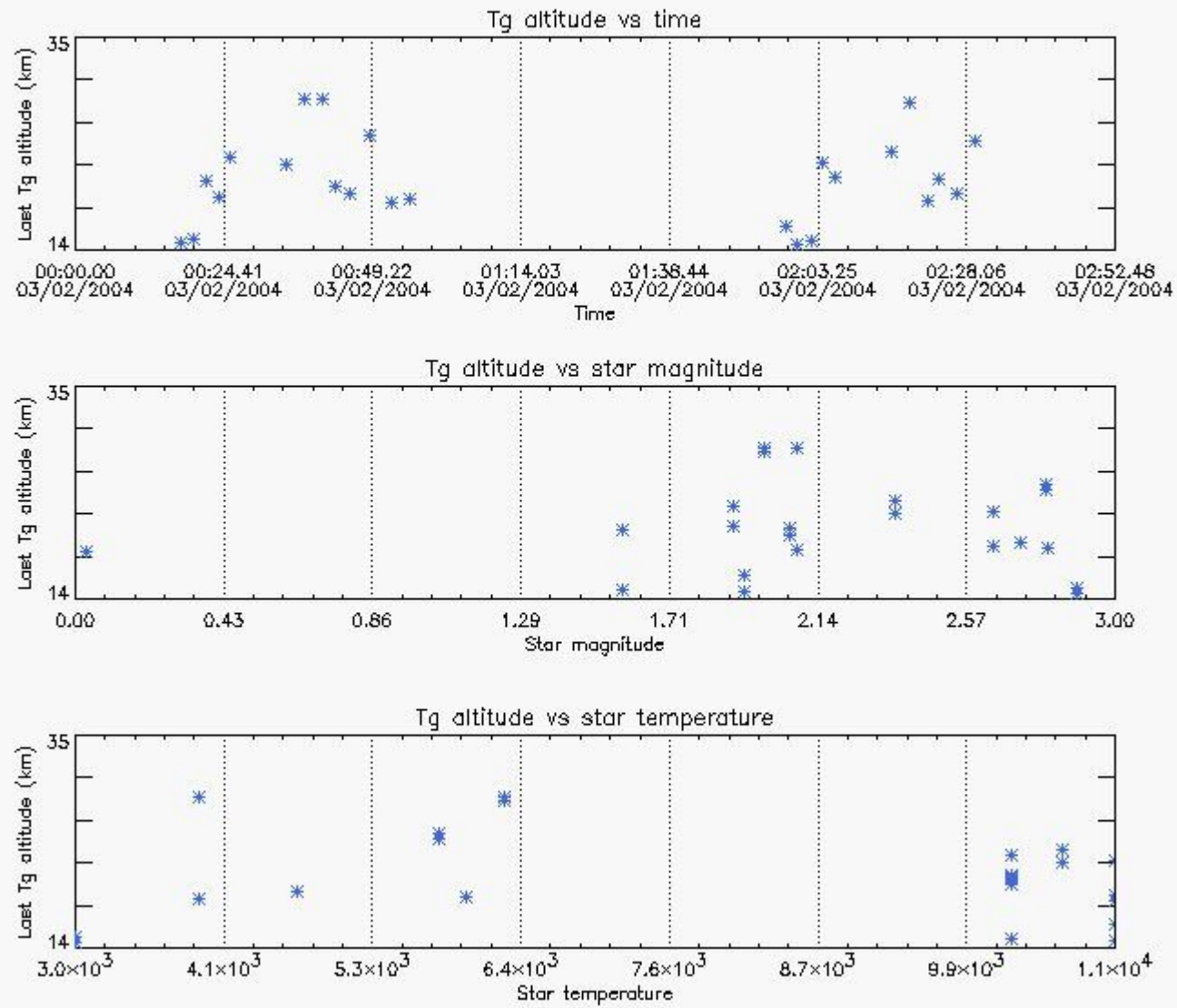
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



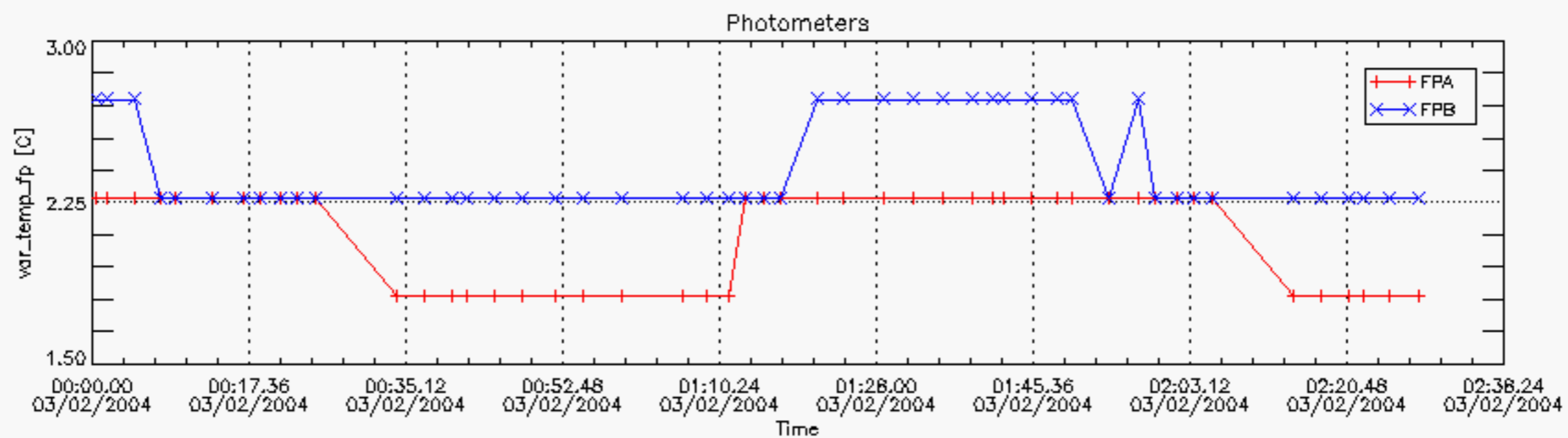
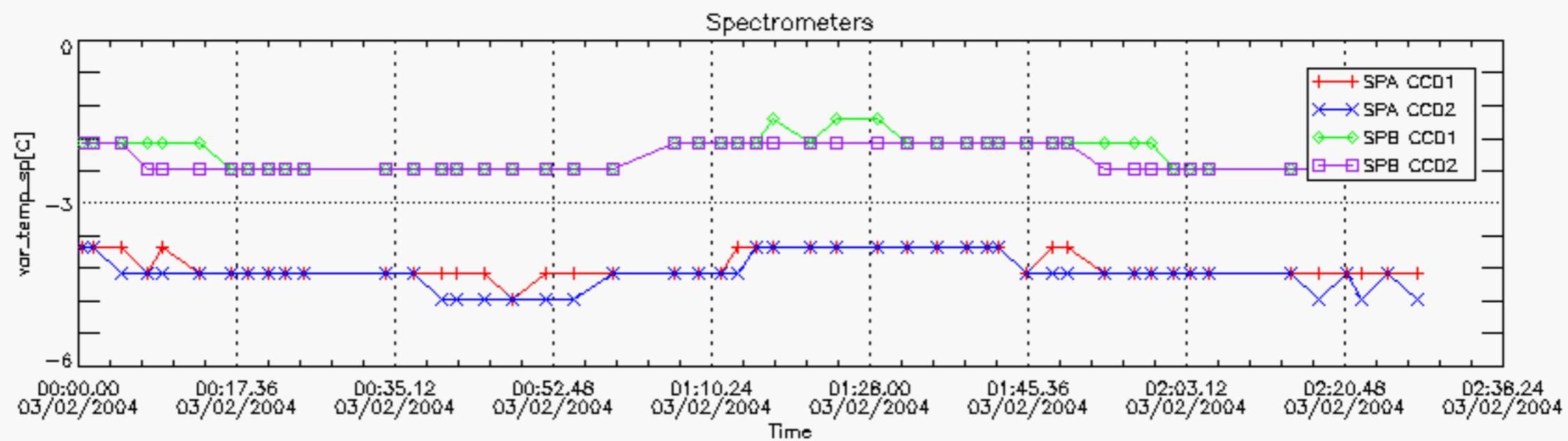
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

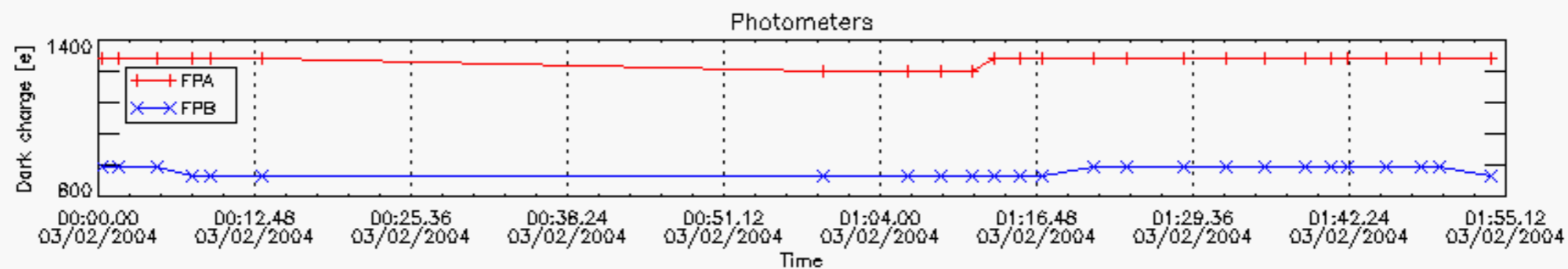
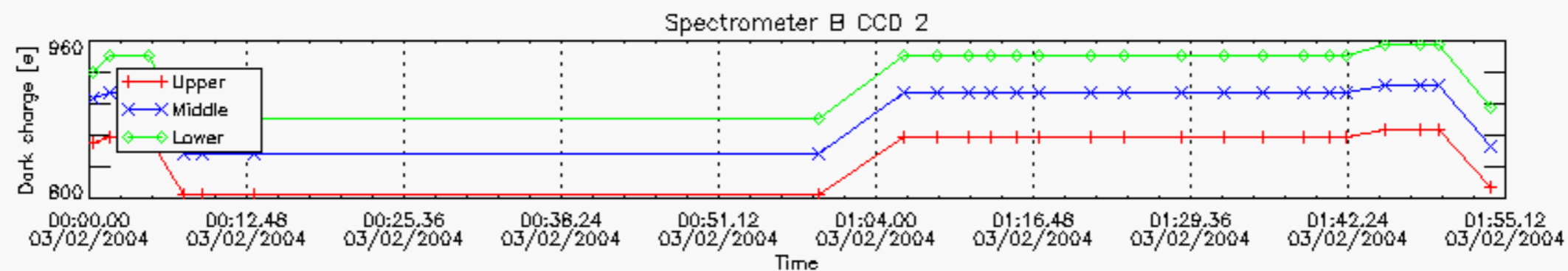
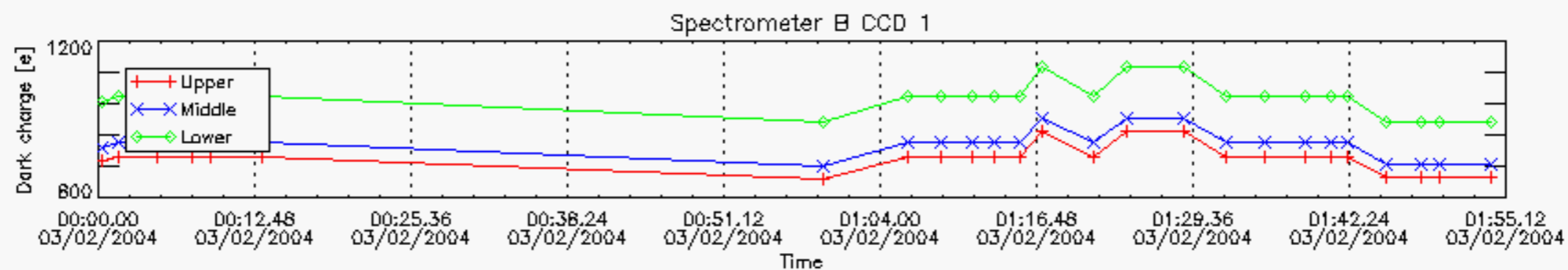
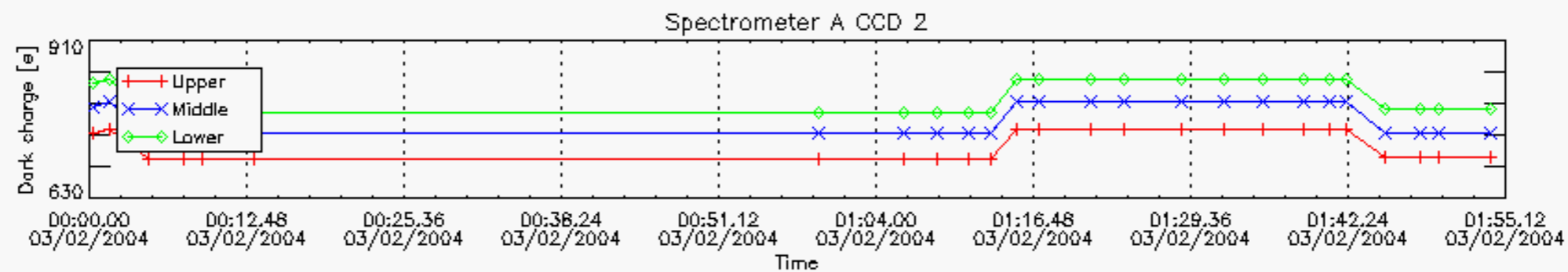
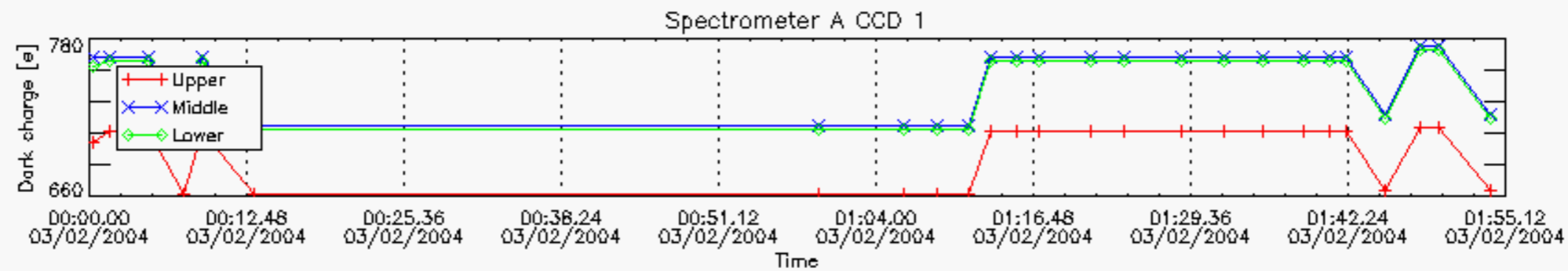
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

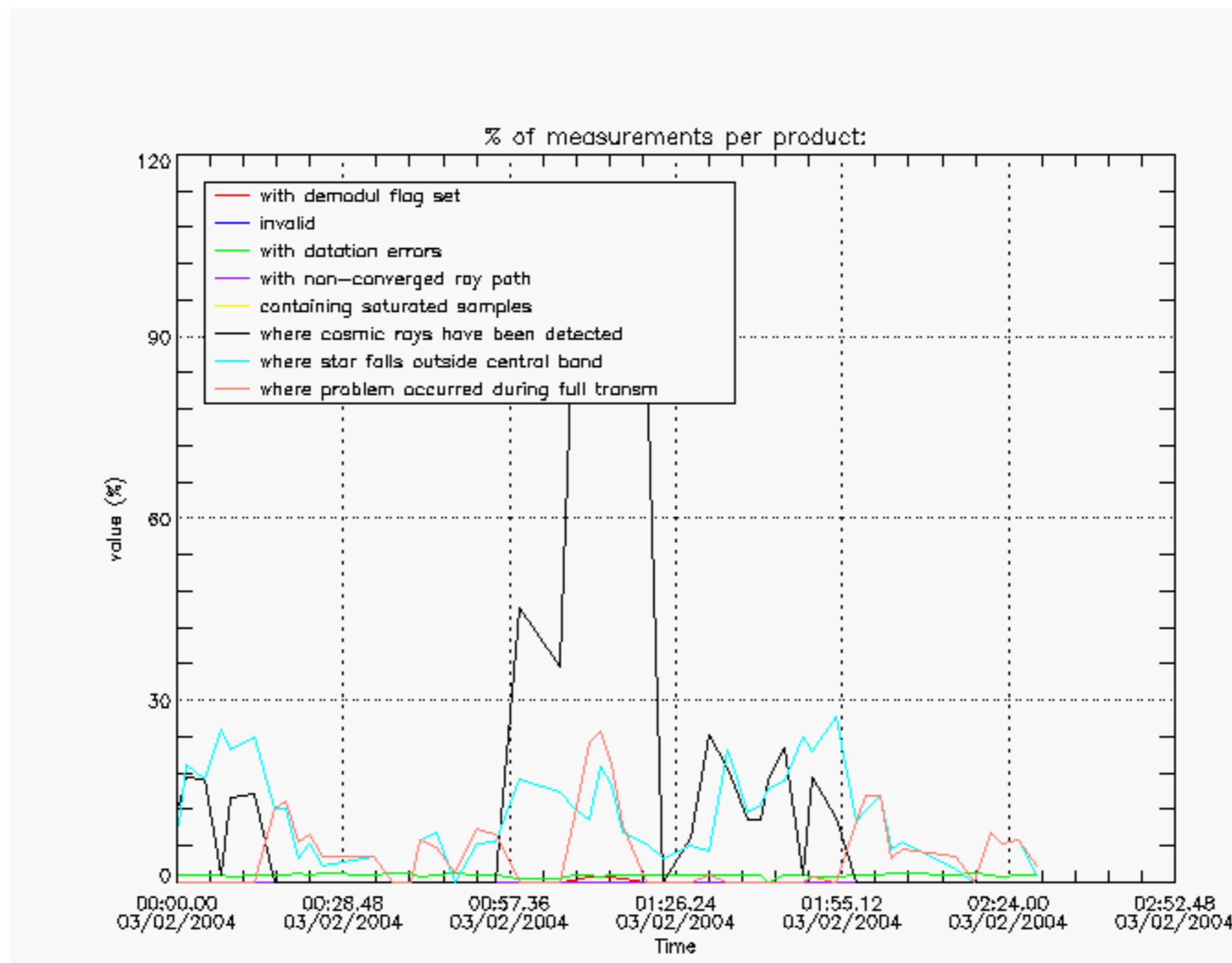
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.9	1447.0	1460.8	1447.0
St. deviation:	4.5369	5.7037	6.5049	7.5186
Maximum:	1576.0	1527.0	1500.0	1488.0
Minimum:	1446.0	1437.0	1431.0	1424.0
Number of data:	31000.	31000.	26650.	26650.



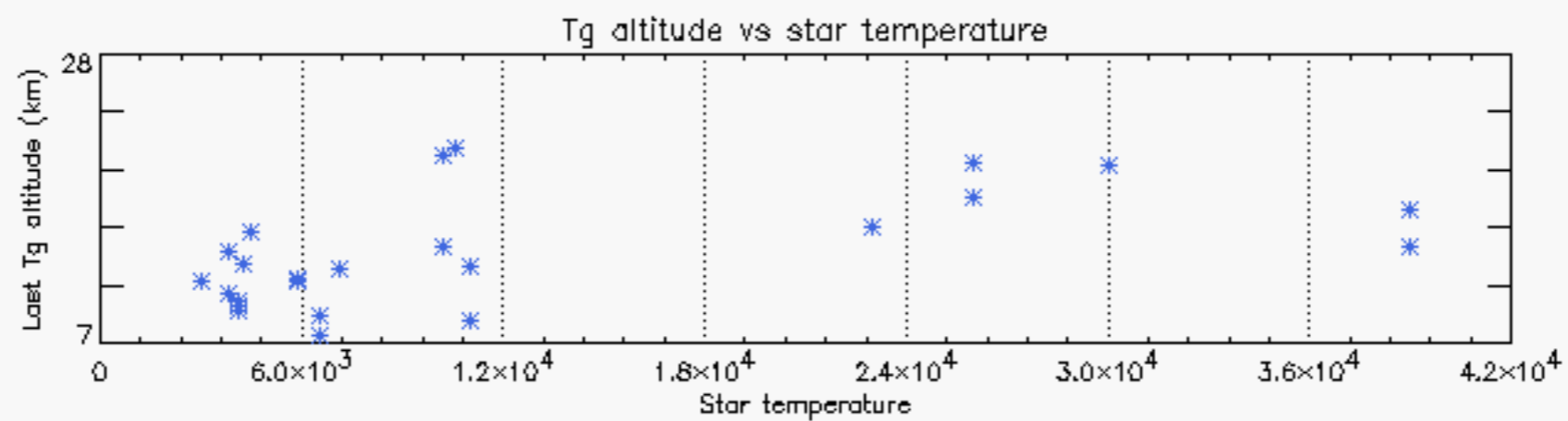
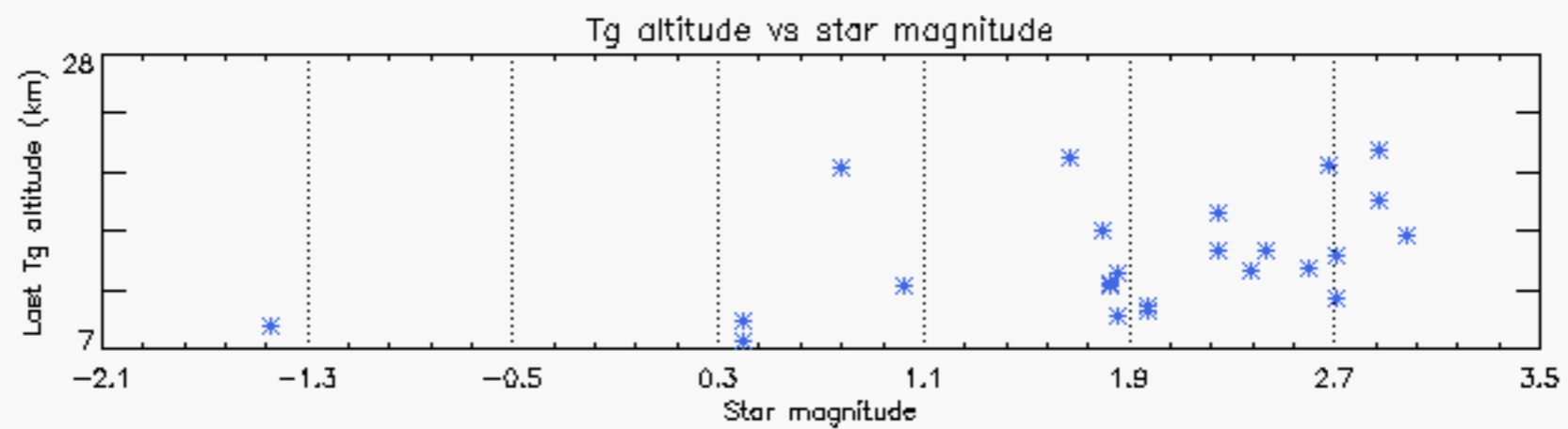
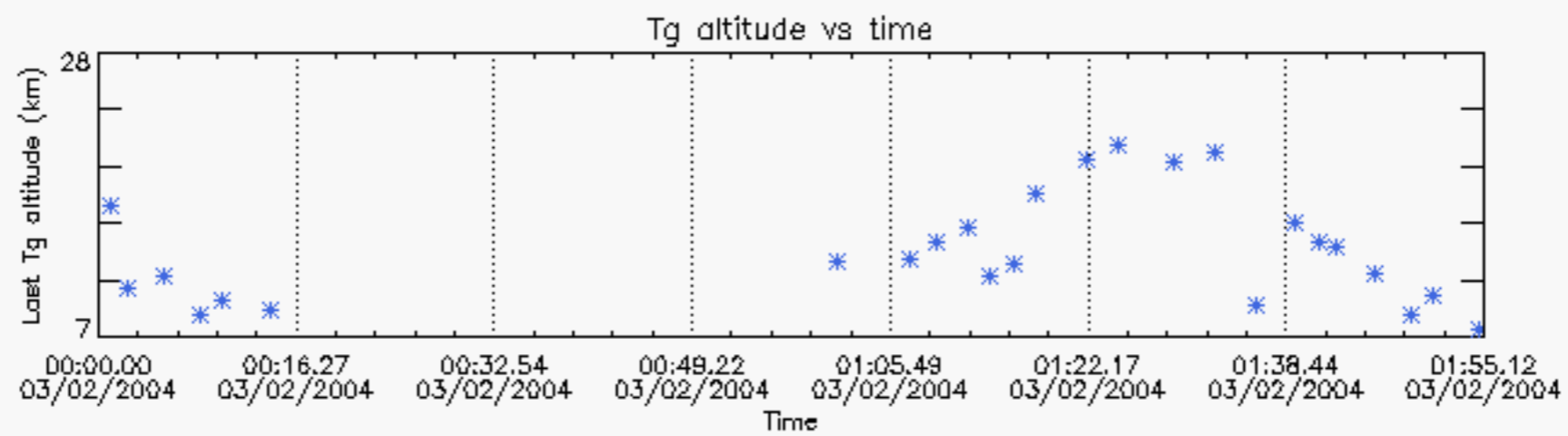




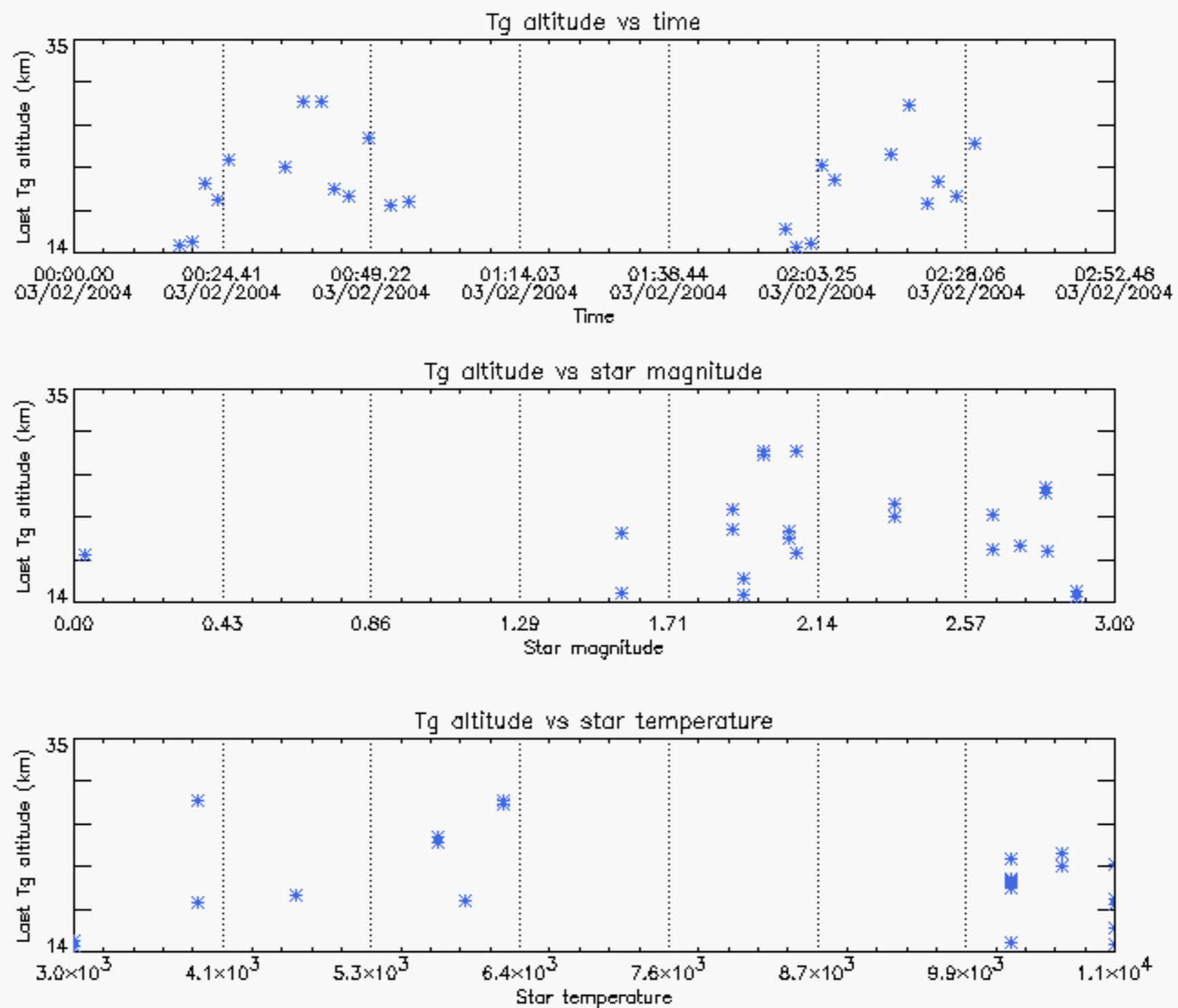




Tangent altitude at which the star is lost



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
 24; -332.2; 01-FEB-2004 07:20:19; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;10051
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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
18; -883.6; 02-FEB-2004 15:02:30; Dark ; 72.0; 102; 24Alp Ser ; 2.60; 4250;occ; 144; 0;10070
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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17;-2144.3; 02-FEB-2004 19:43:17; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;10073
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19;-1729.7; 02-FEB-2004 19:50:12; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 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; -213.1; 02-FEB-2004 20:15:28; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;10073
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5;	-3722.2;	03-FEB-2004	12:02:58;	Bright;		41.0;	151;	13Mu Gem	;	2.89;	3000;occ;	82;	0;	10083
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
8;	-3338.8;	03-FEB-2004	12:09:22;	Bright;		37.5;	42;	34Bet Aur	;	1.90;	10200;occ;	75;	0;	10083
9;	-2805.7;	03-FEB-2004	12:18:15;	Bright;		48.5;	82;	48Bet UMa	;	2.37;	10600;occ;	97;	0;	10083
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13;	-2147.4;	03-FEB-2004	12:29:13;	Bright;		41.0;	119;	14Eta Dra	;	2.73;	4700;occ;	82;	0;	10083
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19;	-708.9;	03-FEB-2004	12:53:11;	Dark	;	45.0;	86;	35Eta Oph	;	2.43;	10200;occ;	90;	0;	10083
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19;	-1200.6;	08-FEB-2004	10:06:55;	Dark ;	187.5;	83;	;	2.38;	11000;occ;	375;	0;10153
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22;	-488.0;	08-FEB-2004	10:18:47;	Dark ;	41.0;	38;	20Eps Sgr ;	1.84;	11000;occ;	82;	0;10153
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26;	129.7;	08-FEB-2004	10:29:05;	Dark ;	42.5;	43;	Alp TrA ;	1.91;	4250;occ;	85;	0;10154
27;	286.0;	08-FEB-2004	10:31:41;	Dark ;	58.5;	0;	;	0.00;	0;occ;	117;	0;10154
28;	388.5;	08-FEB-2004	10:33:24;	Dark ;	44.0;	77;	Eps Cen ;	2.30;	28000;occ;	88;	0;10154
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