

GOMOS Daily Report 01-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	02FEB2004 06:56:37
Data source version	<Any version>
Start time of products	01-FEB-2004 (01FEB2004 00:00:00)
Stop time of products	02-FEB-2004 (02FEB2004 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

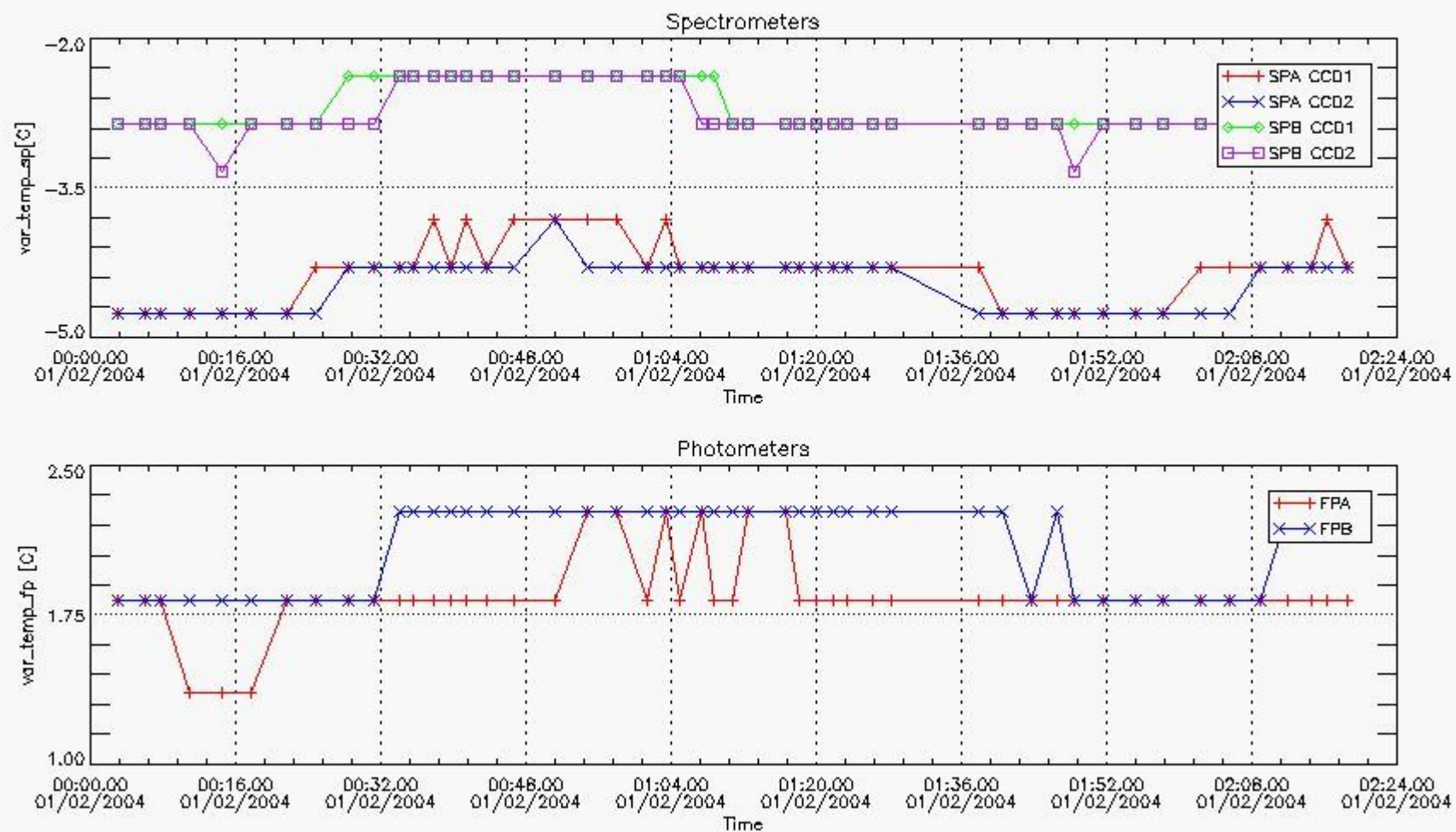
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040201_000305_000000402023_00474_10047_0014.N1	01-FEB-2004 00:03:05	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	10047	No
GOM_TRA_1PNPDE20040201_000601_000000382023_00474_10047_0015.N1	01-FEB-2004 00:06:01	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	10047	No
GOM_TRA_1PNPDE20040201_000747_000000402023_00474_10047_0016.N1	01-FEB-2004 00:07:47	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	10047	No
GOM_TRA_1PNPDE20040201_001057_000000392023_00474_10047_0017.N1	01-FEB-2004 00:10:57	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	10047	No
GOM_TRA_1PNPDE20040201_001432_000000372023_00474_10047_0018.N1	01-FEB-2004 00:14:32	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	10047	No
GOM_TRA_1PNPDE20040201_001736_000000432023_00474_10047_0019.N1	01-FEB-2004 00:17:36	Bright	43.000	133	40Zet Her	2.8070	6000.0	86	10047	No
GOM_TRA_1PNPDE20040201_002139_000000972023_00474_10047_0020.N1	01-FEB-2004 00:21:39	Bright	97.000	83		2.3780	11000.	194	10047	No
GOM_TRA_1PNPDE20040201_002451_000000542023_00474_10047_0021.N1	01-FEB-2004 00:24:51	Bright	54.000	126	60Bet Oph	2.7700	4250.0	108	10047	No
GOM_TRA_1PNPDE20040201_002821_000000702023_00474_10047_0022.N1	01-FEB-2004 00:28:21	Dark	69.500	102	24Alp Ser	2.6000	4250.0	139	10047	No
GOM_TRA_1PNPDE20040201_003119_000000482023_00474_10047_0023.N1	01-FEB-2004 00:31:19	Dark	47.500	86	35Eta Oph	2.4300	10200.	95	10047	No
GOM_TRA_1PNPDE20040201_003404_000000432023_00474_10047_0024.N1	01-FEB-2004 00:34:04	Dark	42.500	167	10Gam2Sgr	2.9840	4500.0	85	10047	No
GOM_TRA_1PNPDE20040201_003537_000000522023_00474_10047_0025.N1	01-FEB-2004 00:35:37	Dark	52.000	16	21Alp Sco	1.0200	3000.0	104	10047	No
GOM_TRA_1PNPDE20040201_003750_000000462023_00474_10047_0026.N1	01-FEB-2004 00:37:50	Dark	45.500	40	The Sco	1.8590	7100.0	91	10047	No
GOM_TRA_1PNPDE20040201_003946_000000402023_00474_10047_0027.N1	01-FEB-2004 00:39:46	Dark	39.500	147	Alp Ara	2.8770	26000.	79	10047	No
GOM_TRA_1PNPDE20040201_004123_000000462023_00474_10047_0028.N1	01-FEB-2004 00:41:23	Dark	46.000	131	Gam Lup	2.8000	26000.	92	10047	No
GOM_TRA_1PNPDE20040201_004336_000000482023_00475_10048_0029.N1	01-FEB-2004 00:43:36	Dark	48.000	109	Bet Lup	2.6770	26000.	96	10048	No
GOM_TRA_1PNPDE20040201_004636_000000482023_00475_10048_0030.N1	01-FEB-2004 00:46:36	Dark	48.000	4	Alp1Cen	-0.010000	5800.0	96	10048	No
GOM_TRA_1PNPDE20040201_005112_000000462023_00475_10048_0031.N1	01-FEB-2004 00:51:12	Dark	46.000	12	Alp1Cru	0.77500	30000.	92	10048	No
GOM_TRA_1PNPDE20040201_005443_000000432023_00475_10048_0032.N1	01-FEB-2004 00:54:43	Dark	42.500	29	Bet Car	1.6720	10200.	85	10048	No
GOM_TRA_1PNPDE20040201_005759_000000462023_00475_10048_0033.N1	01-FEB-2004 00:57:59	Dark	45.500	41	Eps Car	1.8600	4100.0	91	10048	No
GOM_TRA_1PNPDE20040201_010123_000000432023_00475_10048_0034.N1	01-FEB-2004 01:01:23	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	10048	No
GOM_TRA_1PNPDE20040201_010328_000000442023_00475_10048_0035.N1	01-FEB-2004 01:03:28	Dark	43.500	70	Zet Pup	2.2460	39000.	87	10048	No
GOM_TRA_1PNPDE20040201_010451_000000472023_00475_10048_0036.N1	01-FEB-2004 01:04:51	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	10048	No
GOM_TRA_1PNPDE20040201_010718_000000442023_00475_10048_0000.N1	01-FEB-2004 01:07:18	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	10048	No
GOM_TRA_1PNPDE20040201_010840_000000422023_00475_10048_0001.N1	01-FEB-2004 01:08:40	Dark	42.000	179	24Omi2CMa	3.0320	24000.	84	10048	No
GOM_TRA_1PNPDE20040201_011050_000000512023_00475_10048_0002.N1	01-FEB-2004 01:10:50	Dark	51.000	1	9Alp CMa	-1.4400	11000.	102	10048	No
GOM_TRA_1PNPDE20040201_011230_000000692023_00475_10048_0003.N1	01-FEB-2004 01:12:30	Dark	69.000	48	30Alp Hya	1.9770	4100.0	138	10048	No
GOM_TRA_1PNPDE20040201_011637_000000532023_00475_10048_0004.N1	01-FEB-2004 01:16:37	Dark	53.000	8	10Alp CMi	0.40000	6500.0	106	10048	No
GOM_TRA_1PNPDE20040201_011811_000000522023_00475_10048_0005.N1	01-FEB-2004 01:18:11	Bright	52.000	14	58Alp Ori	0.87000	3000.0	104	10048	No
GOM_TRA_1PNPDE20040201_012004_000000402023_00475_10048_0006.N1	01-FEB-2004 01:20:04	Bright	39.500	44	24Gam Gem	1.9280	11000.	79	10048	No
GOM_TRA_1PNPDE20040201_012153_000000412023_00475_10048_0007.N1	01-FEB-2004 01:21:53	Bright	41.000	151	13Mu Gem	2.8900	3000.0	82	10048	No
GOM_TRA_1PNPDE20040201_012318_000000472023_00475_10048_0008.N1	01-FEB-2004 01:23:18	Bright	47.000	17	78Bet Gem	1.1610	4500.0	94	10048	No
GOM_TRA_1PNPDE20040201_012611_000000392023_00475_10048_0009.N1	01-FEB-2004 01:26:11	Bright	38.500	107	37The Aur	2.6490	11000.	77	10048	No
GOM_TRA_1PNPDE20040201_012816_000000402023_00475_10048_0010.N1	01-FEB-2004 01:28:16	Bright	40.000	42	34Bet Aur	1.9000	10200.	80	10048	No
GOM_TRA_1PNPDE20040201_013747_000000512023_00475_10048_0011.N1	01-FEB-2004 01:37:47	Bright	50.500	82	48Bet UMa	2.3650	10600.	101	10048	No
GOM_TRA_1PNPDE20040201_014033_000000362023_00475_10048_0012.N1	01-FEB-2004 01:40:33	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	10048	No
GOM_TRA_1PNPDE20040201_014340_000000422023_00475_10048_0013.N1	01-FEB-2004 01:43:40	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	10048	No
GOM_TRA_1PNPDE20040201_014637_000000382023_00475_10048_0014.N1	01-FEB-2004 01:46:37	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	10048	No
GOM_TRA_1PNPDE20040201_014822_000000422023_00475_10048_0015.N1	01-FEB-2004 01:48:22	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	10048	No
GOM_TRA_1PNPDE20040201_015133_000000402023_00475_10048_0016.N1	01-FEB-2004 01:51:33	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	10048	No
GOM_TRA_1PNPDE20040201_015507_000000422023_00475_10048_0017.N1	01-FEB-2004 01:55:07	Bright	41.500	5	3Alp Lyr	0.033000	11000.	83	10048	No
GOM_TRA_1PNPDE20040201_015812_000000462023_00475_10048_0018.N1	01-FEB-2004 01:58:12	Bright	46.000	133	40Zet Her	2.8070	6000.0	92	10048	No
GOM_TRA_1PNPDE20040201_020216_000000962023_00475_10048_0019.N1	01-FEB-2004 02:02:16	Bright	96.000	83		2.3780	11000.	192	10048	No
GOM_TRA_1PNPDE20040201_020528_000000392023_00475_10048_0020.N1	01-FEB-2004 02:05:28	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	10048	No
GOM_TRA_1PNPDE20040201_020858_000000672023_00475_10048_0021.N1	01-FEB-2004 02:08:58	Dark	66.500	102	24Alp Ser	2.6000	4250.0	133	10048	No
GOM_TRA_1PNPDE20040201_021155_000000442023_00475_10048_0022.N1	01-FEB-2004 02:11:55	Dark	43.500	86	35Eta Oph	2.4300	10200.	87	10048	No
GOM_TRA_1PNPDE20040201_021440_000000432023_00475_10048_0023.N1	01-FEB-2004 02:14:40	Dark	43.000	167	10Gam2Sgr	2.9840	4500.0	86	10048	No
GOM_TRA_1PNPDE20040201_021613_000000552023_00475_10048_0024.N1	01-FEB-2004 02:16:13	Dark	55.000	16	21Alp Sco	1.0200	3000.0	110	10048	No
GOM_TRA_1PNPDE20040201_021828_000000402023_00475_10048_0025.N1	01-FEB-2004 02:18:28	Dark	40.000	40	The Sco	1.8590	7100.0	80	10048	No

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



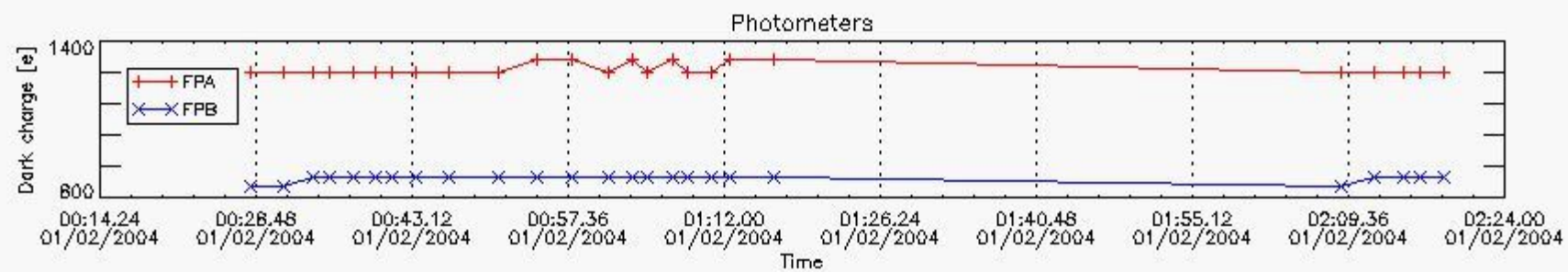
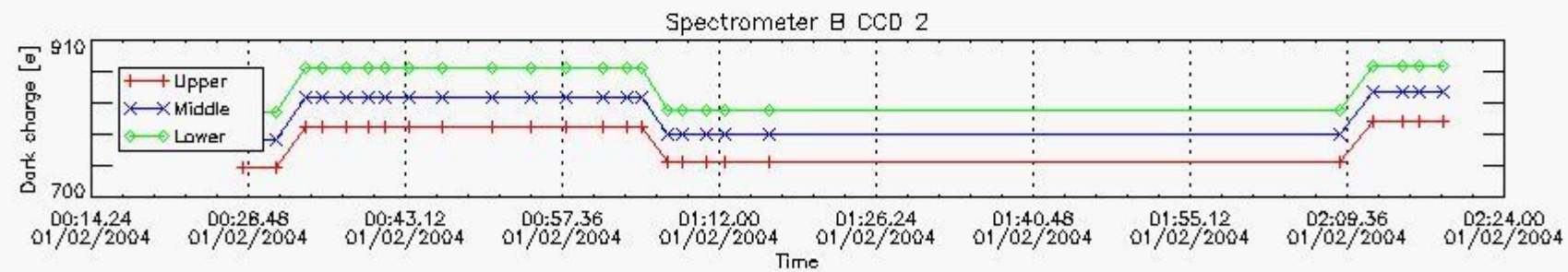
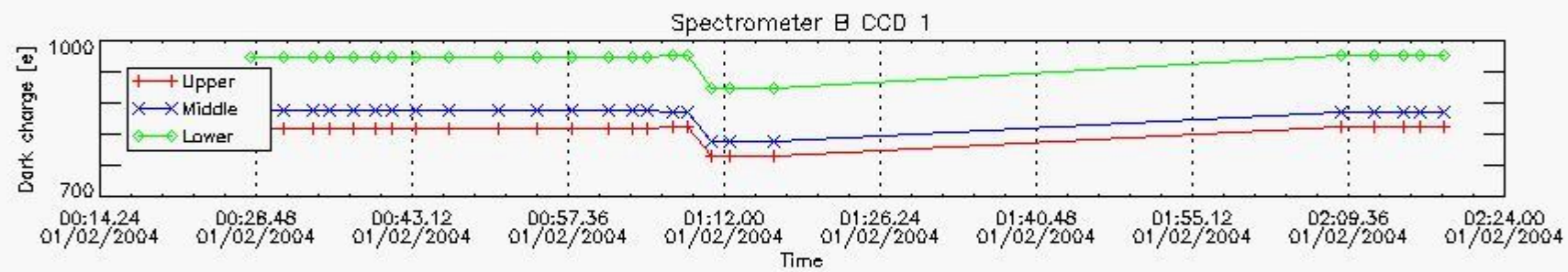
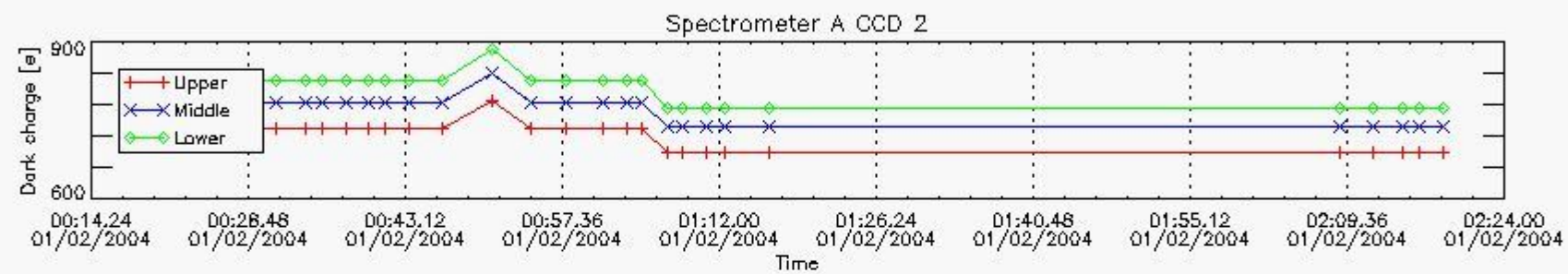
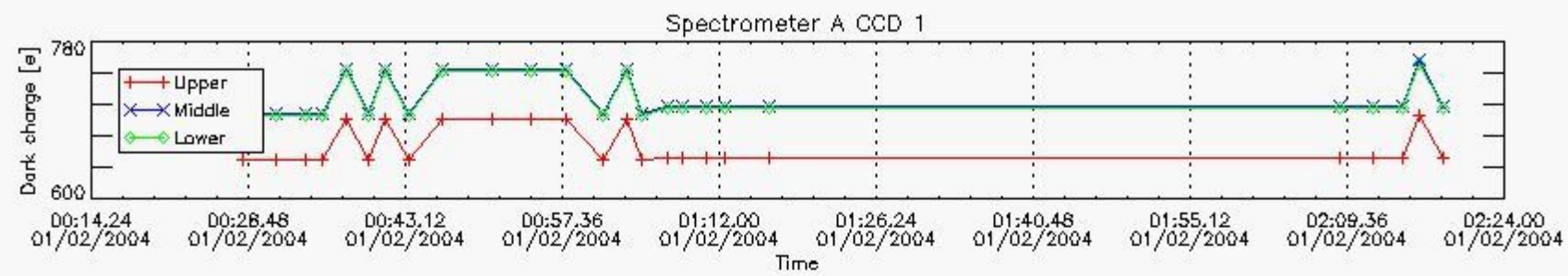
4. Overview of dark signal processing per product

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



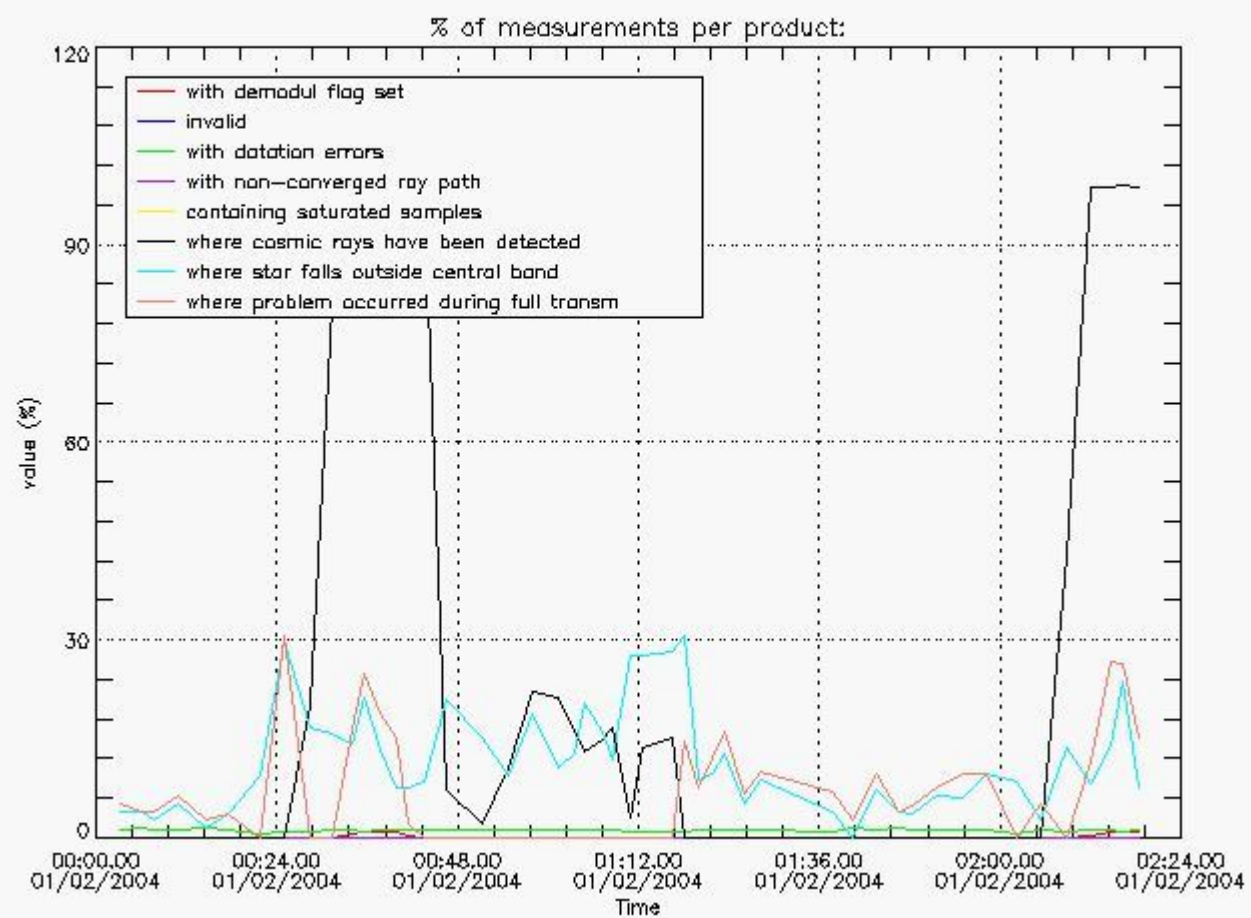
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.5714 %
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



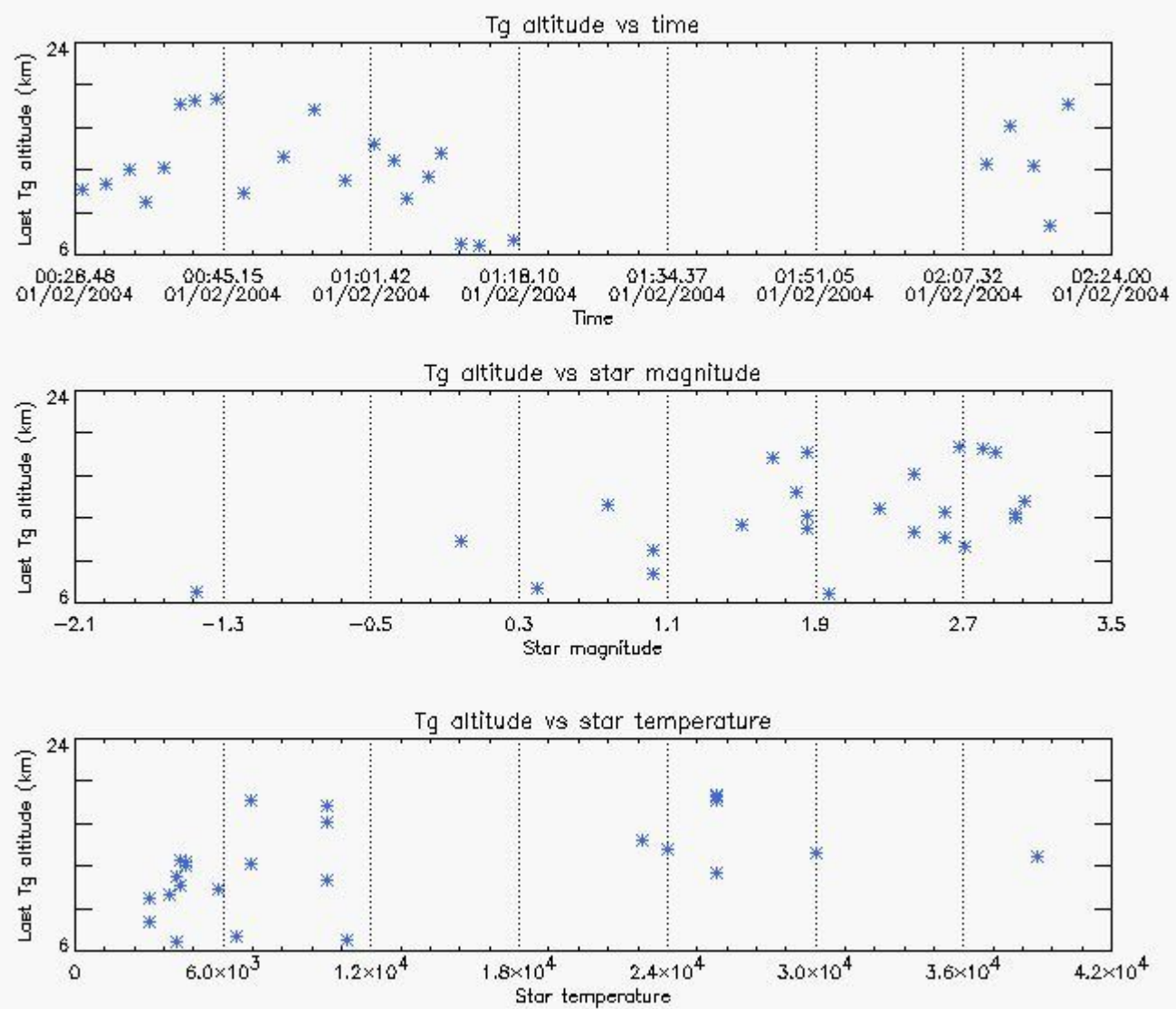
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.333	18.912
St. deviation:	3.7729	4.8422
Maximum:	19.195	25.270
Minimum:	6.8340	6.3281
Number of data:	25.000	24.000

6.2 Plot for DARK limb products

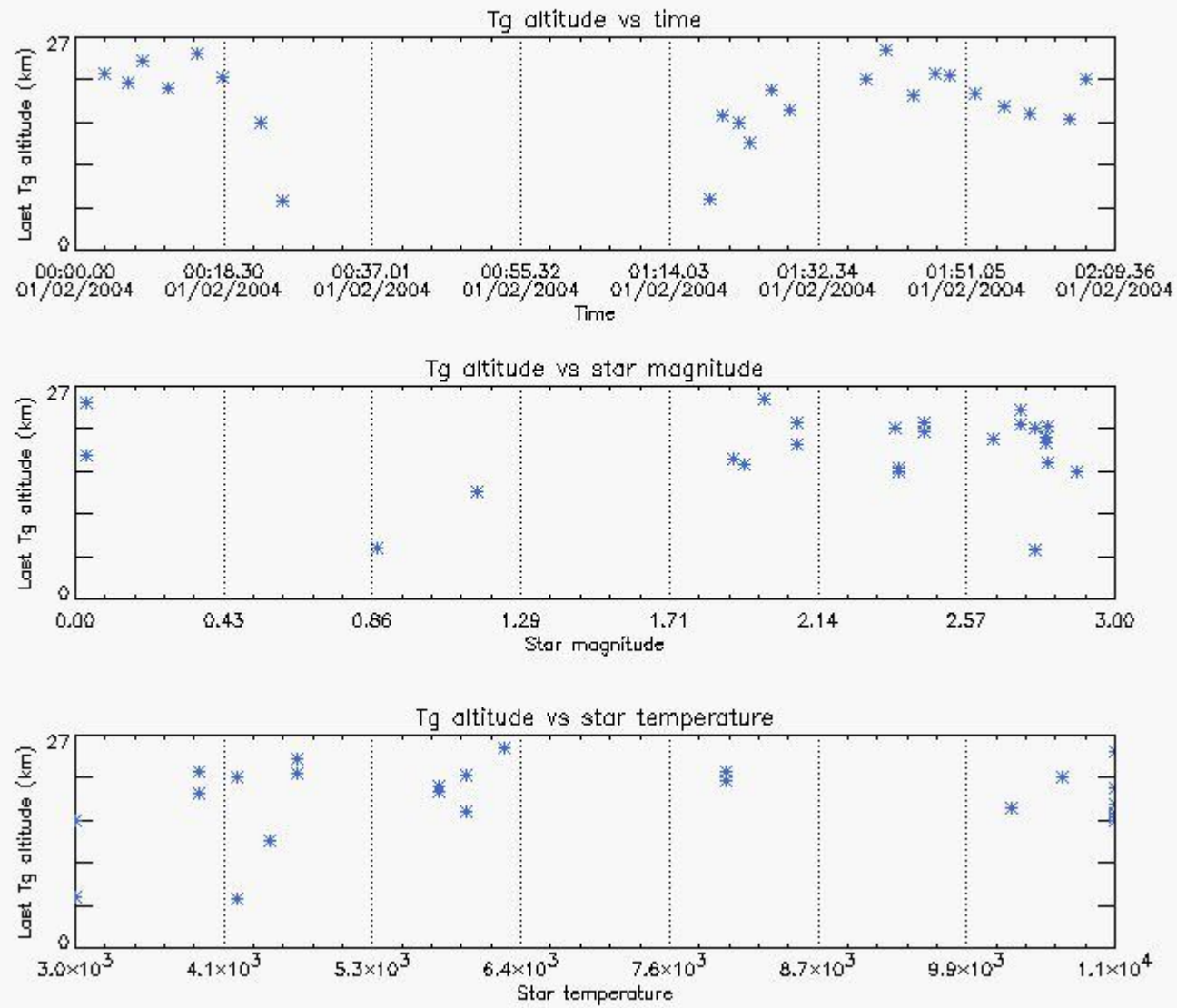
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



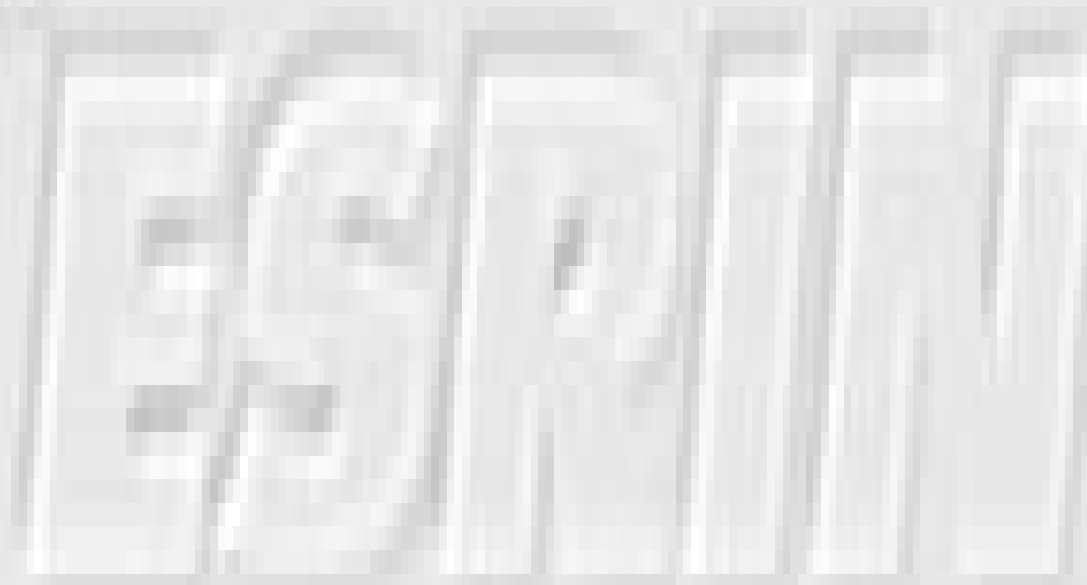
Tangent altitude at which the star is lost



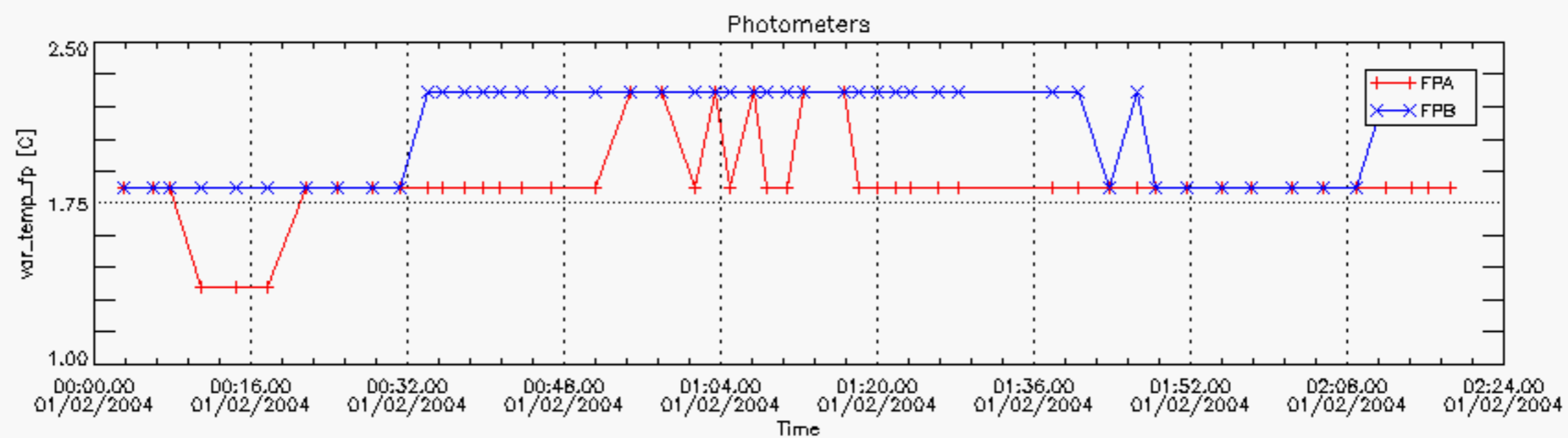
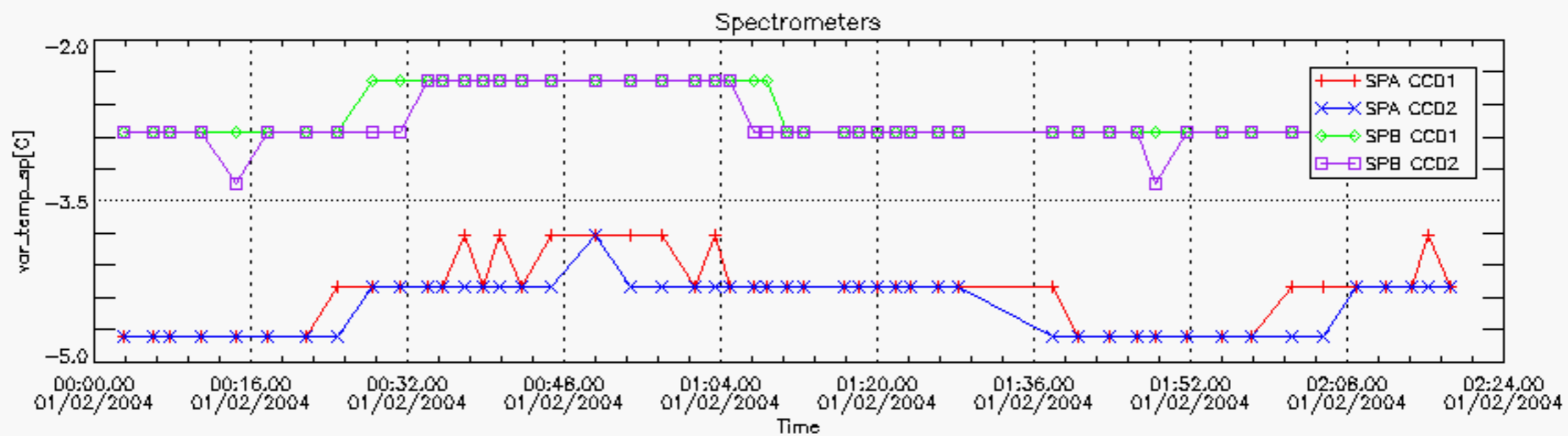
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

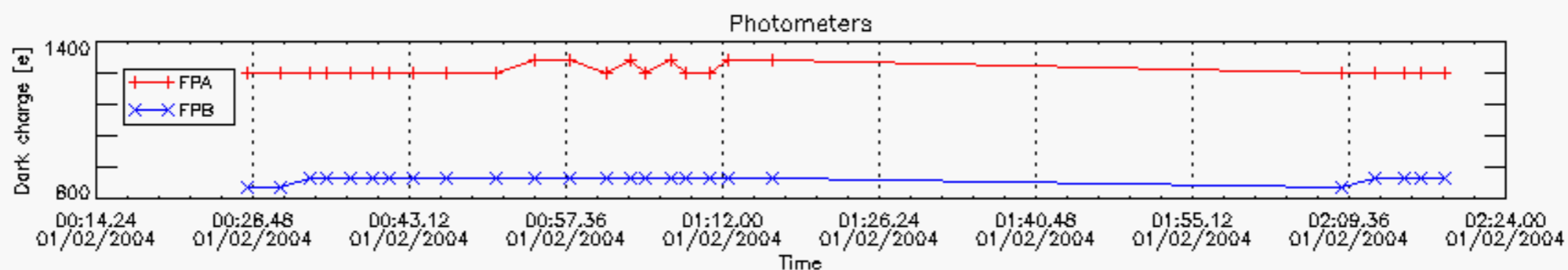
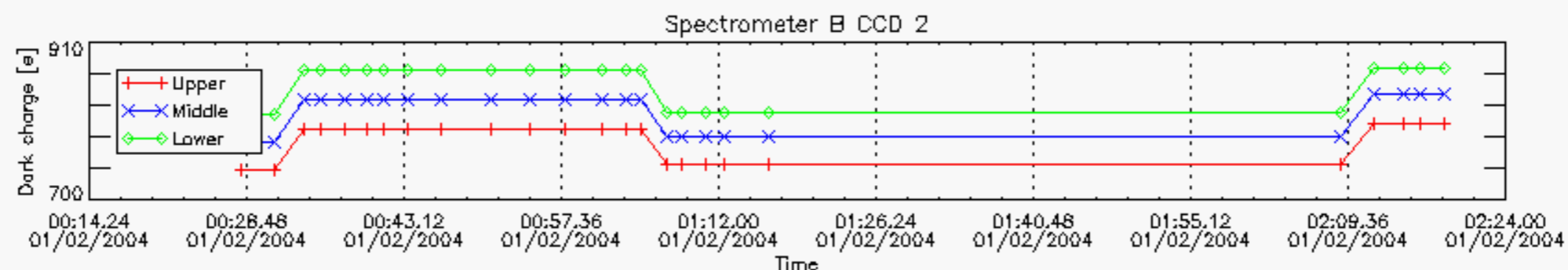
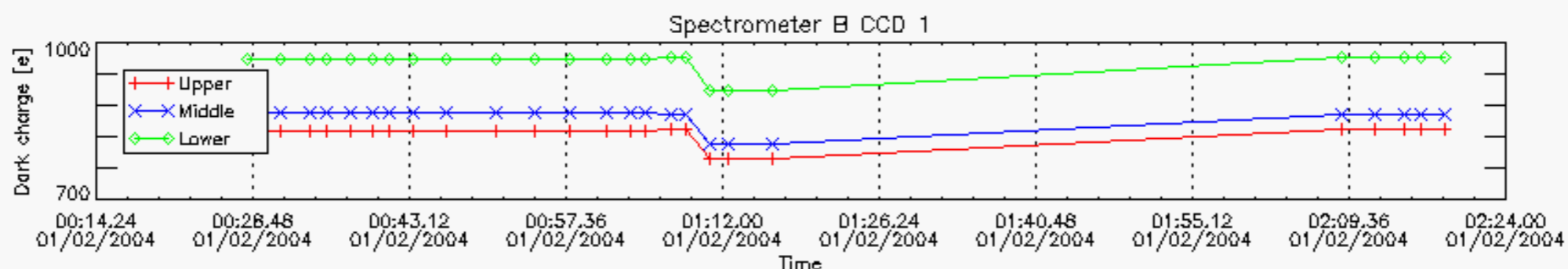
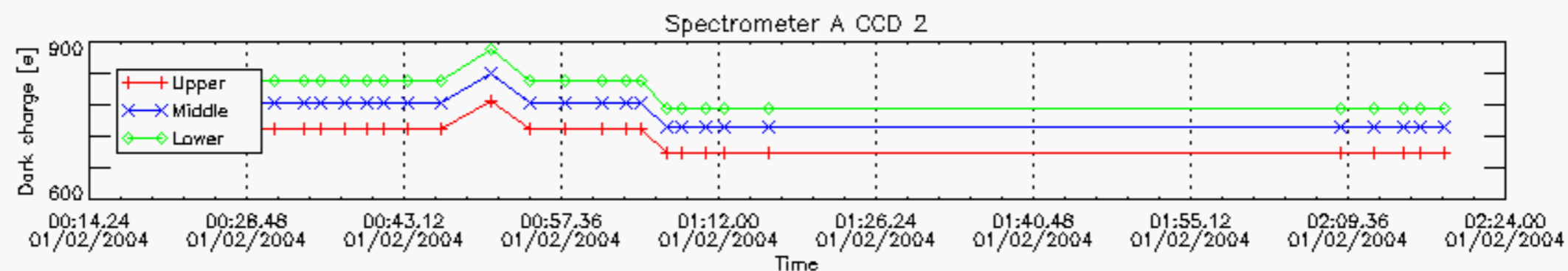
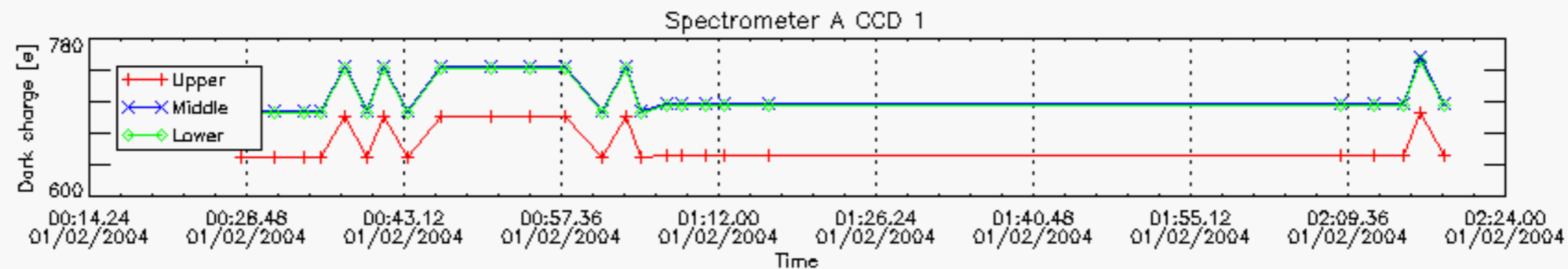
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

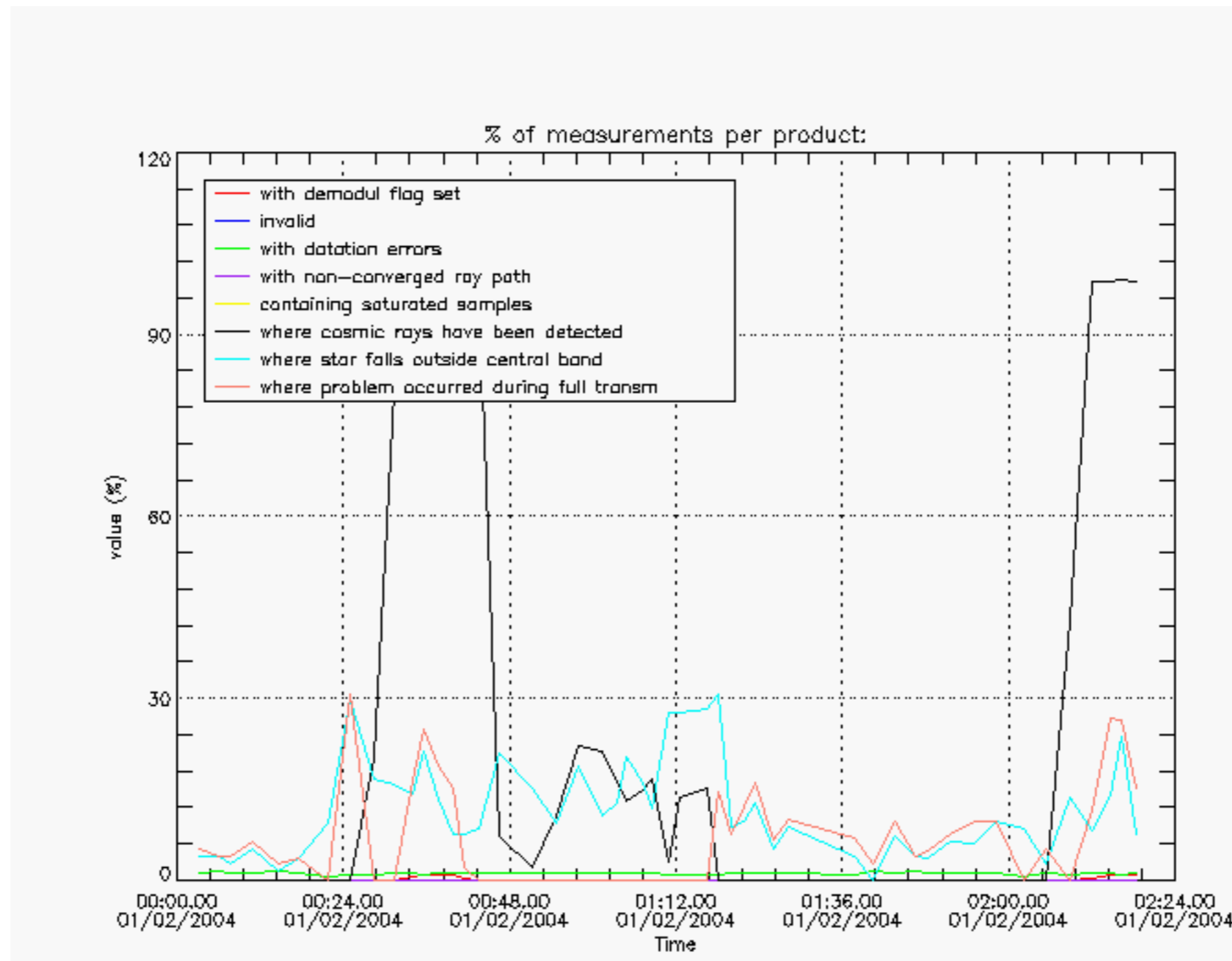
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.1	1447.6	1460.6	1447.8
St. deviation:	5.0572	6.4086	5.8182	6.9989
Maximum:	1519.0	1643.0	1498.0	1496.0
Minimum:	1448.0	1436.0	1441.0	1427.0
Number of data:	30500.	30500.	28550.	28550.



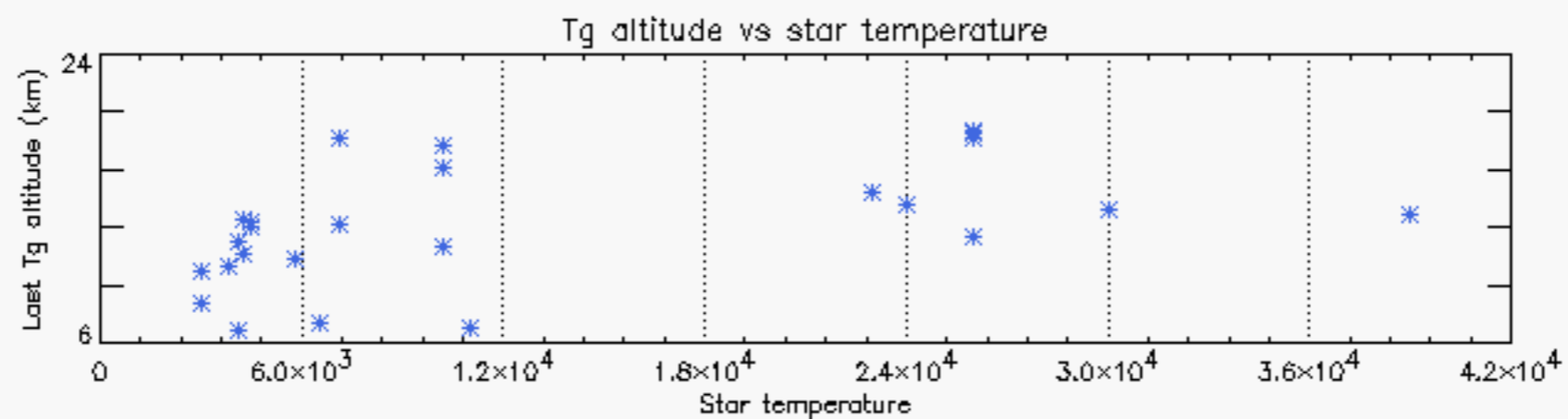
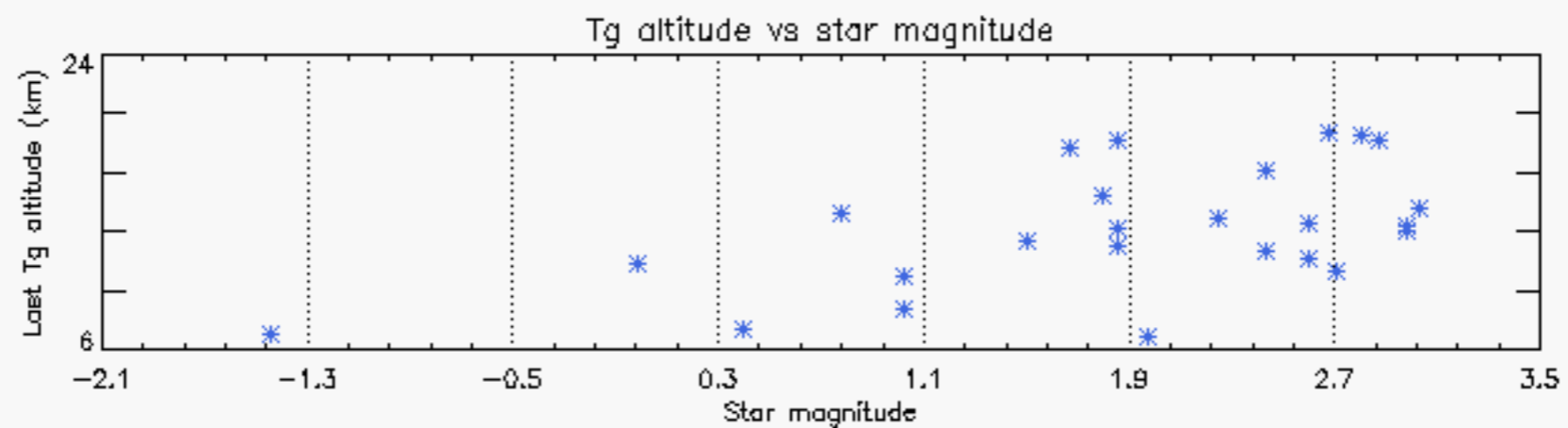
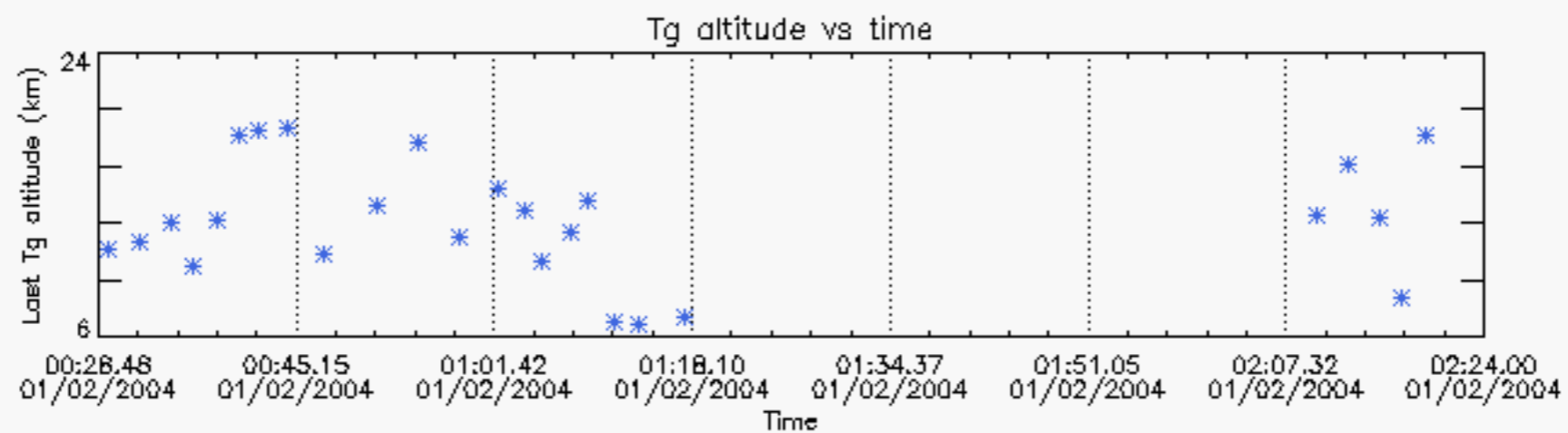




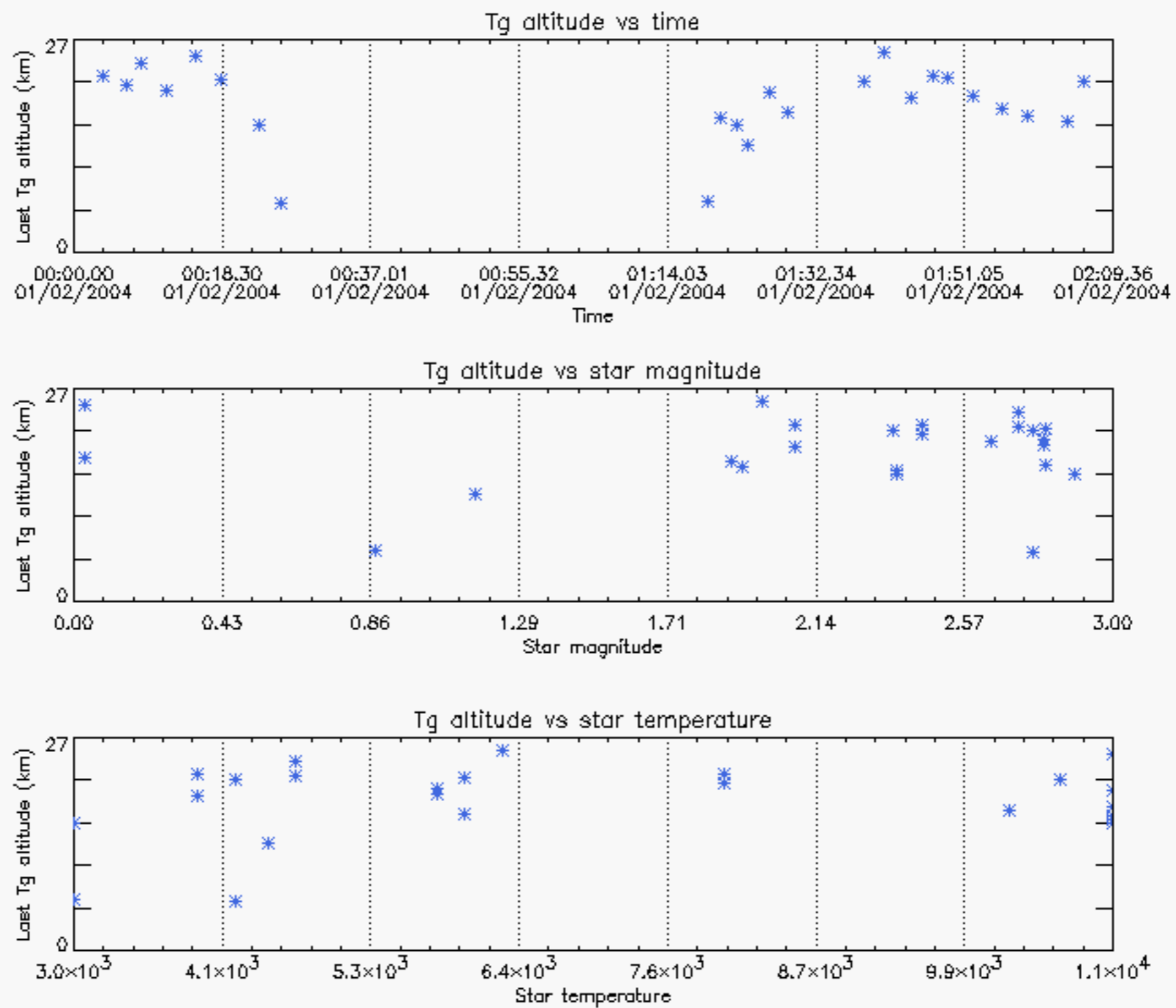




Tangent altitude at which the star is lost



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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14;-1965.3; 16-FEB-2004 17:25:26; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;10272
15;-1843.4; 16-FEB-2004 17:27:27; Bright; 34.0; 144; 18Del Cyg ; 2.86; 11000;occ; 68; 0;10272
16;-1708.5; 16-FEB-2004 17:29:42; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;10272
17;-1517.5; 16-FEB-2004 17:32:53; Bright; 56.0; 133; 40Zet Her ; 2.81; 6000;occ; 112; 0;10272
18;-1256.3; 16-FEB-2004 17:37:15; Dark ; 116.5; 67; 5Alp CrB ; 2.22; 11000;occ; 233; 0;10272
19;-1021.4; 16-FEB-2004 17:41:09; Dark ; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;10272
20; -716.7; 16-FEB-2004 17:46:14; Dark ; 41.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 82; 0;10272
21; -449.9; 16-FEB-2004 17:50:41; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;10272
22; -318.7; 16-FEB-2004 17:52:52; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;10272
23; -242.9; 16-FEB-2004 17:54:08; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;10272
24; -138.3; 16-FEB-2004 17:55:53; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;10272
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26; 108.4; 16-FEB-2004 17:59:59; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10273
27; 319.7; 16-FEB-2004 18:03:31; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;10273
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30; 581.2; 16-FEB-2004 18:07:52; Dark ; 54.0; 12; Alp1Cru ; 0.77; 30000;occ; 108; 0;10273
31; 724.6; 16-FEB-2004 18:10:16; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;10273
32; 882.7; 16-FEB-2004 18:12:54; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;10273
33; 979.4; 16-FEB-2004 18:14:30; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;10273
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5;-3856.9; 16-FEB-2004 18:34:30; Bright; 51.5; 22; 32Alp Leo ; 1.36; 15200;occ; 103; 0;10273
6;-3648.7; 16-FEB-2004 18:37:58; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;10273
7;-3277.0; 16-FEB-2004 18:44:10; Bright; 39.0; 42; 34Bet Aur ; 1.90; 10200;occ; 78; 0;10273
8;-3066.6; 16-FEB-2004 18:47:40; Bright; 54.0; 174; 52Psi UMa ; 3.00; 4400;occ; 108; 0;10273
9;-2949.2; 16-FEB-2004 18:49:38; Bright; 45.5; 82; 48Bet UMa ; 2.37; 10600;occ; 91; 0;10273

10;-2606.2; 17-FEB-2004 15:02:31; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;10285
11;-2488.2; 17-FEB-2004 15:04:30; Bright; 44.0; 60; 7Bet UMi ; 2.08; 3950;occ; 88; 0;10285
12;-2352.3; 17-FEB-2004 15:06:45; Bright; 70.0; 39; 85Eta UMa ; 1.85; 24000;occ; 140; 0;10285
13;-2197.4; 17-FEB-2004 15:09:20; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;10285
14;-1966.9; 17-FEB-2004 15:13:11; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;10285
15;-1706.9; 17-FEB-2004 15:17:31; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;10285
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17;-1242.9; 17-FEB-2004 15:25:15; Dark ; 138.0; 67; 5Alp CrB ; 2.22; 11000;occ; 276; 0;10285
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19; -713.1; 17-FEB-2004 15:34:05; Dark ; 41.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 82; 0;10285
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21; -444.4; 17-FEB-2004 15:38:33; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;10285
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23; -157.6; 17-FEB-2004 15:43:20; Dark ; 69.5; 80; 7Del Sco ; 2.32; 30000;occ; 139; 0;10285
24; 111.1; 17-FEB-2004 15:47:49; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10286
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26; 587.6; 17-FEB-2004 15:55:45; Dark ; 51.0; 12; Alp1Cru ; 0.77; 30000;occ; 102; 0;10286
27; 726.0; 17-FEB-2004 15:58:04; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;10286
28; 885.7; 17-FEB-2004 16:00:43; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;10286
29; 982.2; 17-FEB-2004 16:02:20; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;10286
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31; 1249.4; 17-FEB-2004 16:06:47; Dark ; 27.5; 70; Zet Pup ; 2.25; 39000;occ; 55; 0;10286

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4;-3861.7; 17-FEB-2004 16:22:12; Bright; 52.0; 22; 32Alp Leo ; 1.36; 15200;occ; 104; 0;10286
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6;-3578.2; 17-FEB-2004 16:26:56; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;10286
7;-3459.7; 17-FEB-2004 16:28:54; Bright; 68.5; 96; 68Del Leo ; 2.56; 9300;occ; 137; 0;10286
8;-3079.0; 17-FEB-2004 16:35:15; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;10286
9;-2957.7; 17-FEB-2004 16:37:16; Bright; 45.5; 82; 48Bet UMa ; 2.37; 10600;occ; 91; 0;10286
10;-2834.4; 17-FEB-2004 16:39:19; Bright; 51.0; 87; 64Gam UMa ; 2.43; 11000;occ; 102; 0;10286
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13;-2353.7; 17-FEB-2004 16:47:20; Bright; 69.0; 39; 85Eta UMa ; 1.85; 24000;occ; 138; 0;10286
14;-2198.0; 17-FEB-2004 16:49:56; Bright; 47.0; 119; 14Eta Dra ; 2.73; 4700;occ; 94; 0;10286
15;-1967.1; 17-FEB-2004 16:53:47; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;10286
16;-1842.0; 17-FEB-2004 16:55:52; Bright; 36.5; 144; 18Del Cyg ; 2.86; 11000;occ; 73; 0;10286
17;-1706.9; 17-FEB-2004 16:58:07; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;10286
18;-1516.4; 17-FEB-2004 17:01:17; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;10286
19;-1242.2; 17-FEB-2004 17:05:52; Dark ; 122.0; 67; 5Alp CrB ; 2.22; 11000;occ; 244; 0;10286
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21; -712.9; 17-FEB-2004 17:14:41; Dark ; 40.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 80; 0;10286
22; -612.7; 17-FEB-2004 17:16:21; Dark ; 42.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 85; 0;10286
23; -444.1; 17-FEB-2004 17:19:10; Dark ; 42.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 85; 0;10286
24; -253.3; 17-FEB-2004 17:22:20; Dark ; 72.0; 16; 21Alp Sco ; 1.02; 3000;occ; 144; 0;10286
25; -156.1; 17-FEB-2004 17:23:58; Dark ; 64.5; 80; 7Del Sco ; 2.32; 30000;occ; 129; 0;10286
26; 111.3; 17-FEB-2004 17:28:25; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10287
27; 492.8; 17-FEB-2004 17:34:47; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;10287
28; 588.4; 17-FEB-2004 17:36:22; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;10287
29; 726.9; 17-FEB-2004 17:38:41; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;10287
30; 886.1; 17-FEB-2004 17:41:20; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;10287
31; 982.3; 17-FEB-2004 17:42:56; Dark ; 37.0; 46; Del Vel ; 1.95; 10600;occ; 74; 0;10287
32; 1123.9; 17-FEB-2004 17:45:18; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;10287

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2; 196.4; 18-FEB-2004 15:17:37; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;10300
3; 336.4; 18-FEB-2004 15:19:57; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;10300
4; 415.6; 18-FEB-2004 15:21:16; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;10300
5; 502.5; 18-FEB-2004 15:22:43; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;10300
6; 594.9; 18-FEB-2004 15:24:16; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;10300
7; 729.0; 18-FEB-2004 15:26:30; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;10300
8; 888.7; 18-FEB-2004 15:29:09; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;10300
9; 984.4; 18-FEB-2004 15:30:45; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;10300
10; 1125.8; 18-FEB-2004 15:33:06; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;10300
11; 1251.1; 18-FEB-2004 15:35:12; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;10300

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 33; 596.7; 18-FEB-2004 20:26:05; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;10303
 34; 729.0; 18-FEB-2004 20:28:18; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;10303
 35; 889.8; 18-FEB-2004 20:30:58; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;10303
 36; 985.5; 18-FEB-2004 20:32:34; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;10303
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 4;-4526.4; 18-FEB-2004 20:41:18; Dark ; 40.5; 132; 15Rho Pup ; 2.80; 6900;occ; 81; 0;10303
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 9;-3575.3; 18-FEB-2004 20:57:09; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;10303
 10;-3377.4; 18-FEB-2004 21:00:27; Bright; 115.5; 62; 94Bet Leo ; 2.14; 9700;occ; 231; 0;10303
 11;-3095.3; 18-FEB-2004 21:05:09; Bright; 53.5; 174; 52Psi UMa ; 3.00; 4400;occ; 107; 0;10303
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 18;-1942.5; 18-FEB-2004 21:24:22; Bright; 42.0; 69; 33Gam Dra ; 2.23; 3800;occ; 84; 0;10303
 19;-1839.1; 18-FEB-2004 21:26:05; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;10303
 20;-1705.2; 18-FEB-2004 21:28:19; Bright; 42.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 84; 0;10303
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 22;-1211.7; 18-FEB-2004 21:36:33; Dark ; 74.0; 127; 27Bet Her ; 2.78; 4700;occ; 148; 0;10303
 23;-1003.9; 18-FEB-2004 21:40:01; Dark ; 54.5; 126; 60Bet Oph ; 2.77; 4250;occ; 109; 0;10303
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 25; -607.2; 18-FEB-2004 21:46:37; Dark ; 44.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 89; 0;10303
 26; -437.4; 18-FEB-2004 21:49:27; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;10303
 27; -233.6; 18-FEB-2004 21:52:51; Dark ; 60.5; 16; 21Alp Sco ; 1.02; 3000;occ; 121; 0;10303
 28; -123.0; 18-FEB-2004 21:54:41; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;10303
 29; 114.9; 18-FEB-2004 21:58:39; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10304
 30; 198.0; 18-FEB-2004 22:00:02; Dark ; 41.0; 134; Bet TrA ; 2.81; 6600;occ; 82; 0;10304
 31; 338.6; 18-FEB-2004 22:02:23; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;10304
 32; 417.7; 18-FEB-2004 22:03:42; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;10304
 33; 505.7; 18-FEB-2004 22:05:10; Dark ; 45.5; 77; Eps Cen ; 2.30; 28000;occ; 91; 0;10304
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 38; 1126.3; 18-FEB-2004 22:15:31; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;10304
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 5;-3393.9; 19-FEB-2004 07:03:46; Bright; 108.5; 62; 94Bet Leo ; 2.14; 9700;occ; 217; 0;10309
 6;-3101.0; 19-FEB-2004 07:08:39; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;10309
 7;-2972.2; 19-FEB-2004 07:10:48; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;10309
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 9;-2606.5; 19-FEB-2004 07:16:53; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0;10309
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 11;-2380.7; 19-FEB-2004 07:20:39; Bright; 67.5; 39; 85Eta UMa ; 1.85; 24000;occ; 135; 0;10309
 12;-2205.6; 19-FEB-2004 07:23:34; Bright; 47.0; 119; 14Eta Dra ; 2.73; 4700;occ; 94; 0;10309
 13;-1970.4; 19-FEB-2004 07:27:30; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;10309
 14;-1875.6; 19-FEB-2004 07:29:04; Bright; 38.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 77; 0;10309
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 17;-1511.1; 19-FEB-2004 07:35:09; Bright; 60.0; 133; 40Zet Her ; 2.81; 6000;occ; 120; 0;10309
 18;-1207.1; 19-FEB-2004 07:40:13; Dark ; 77.5; 127; 27Bet Her ; 2.78; 4700;occ; 155; 0;10309
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