

GOMOS Daily Report 06-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	07FEB2004 06:53:58
Data source version	<Any version>
Start time of products	06-FEB-2004 (06FEB2004 00:00:00)
Stop time of products	07-FEB-2004 (07FEB2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	1

2. Summary of products arrived in PCF

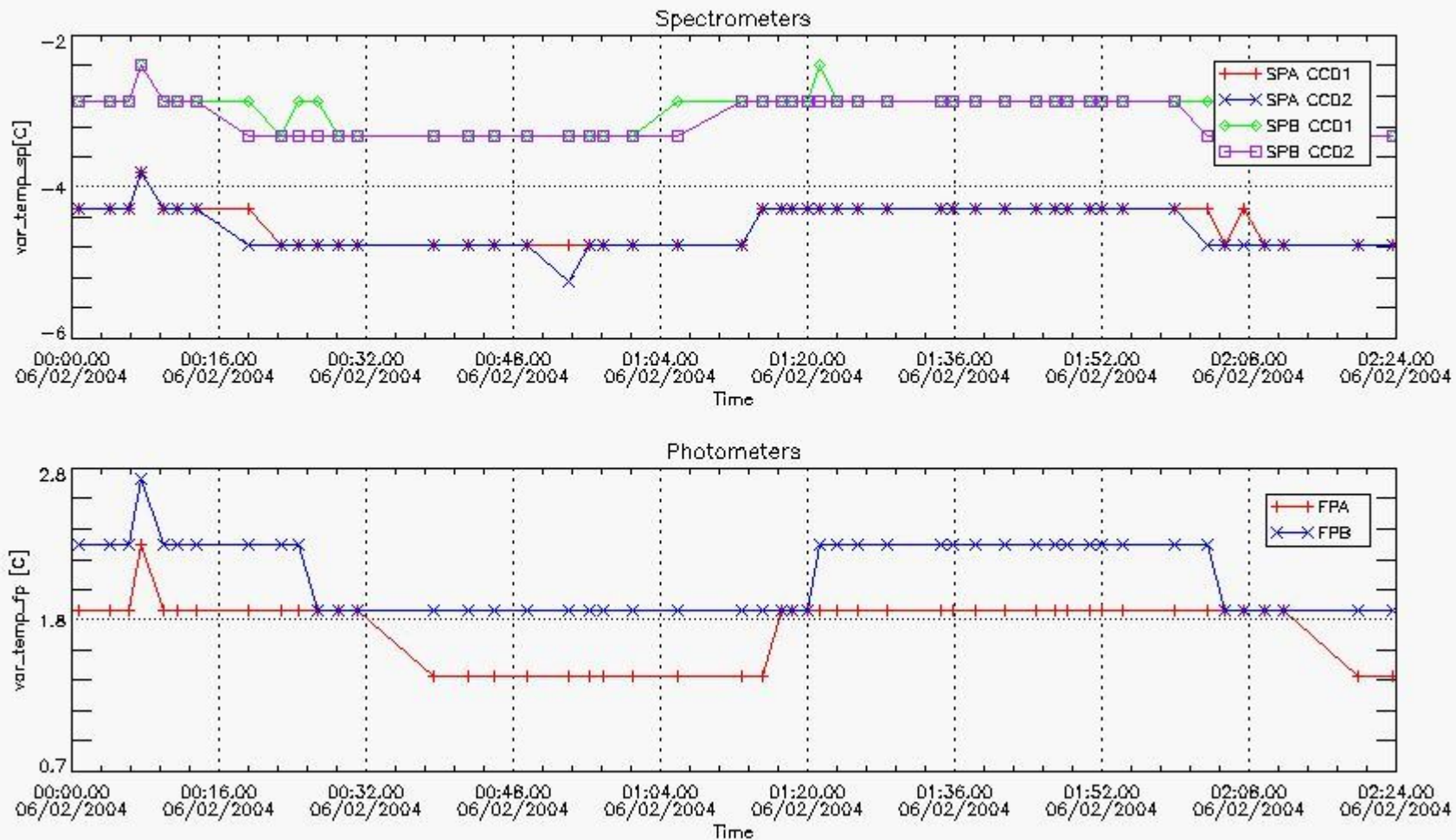
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[2.2 Summary of processed GOM_TRA_1P products.](#)

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
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GOM_TRA_1PNPDE20040206_000047_000000462024_00045_10119_0031.N1	06-FEB-2004 00:00:47	Dark	46.000	41	Eps Car	1.8600	4100.0	92	10119	No
GOM_TRA_1PNPDE20040206_000412_000000412024_00045_10119_0032.N1	06-FEB-2004 00:04:12	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	10119	No
GOM_TRA_1PNPDE20040206_000617_000000412024_00045_10119_0033.N1	06-FEB-2004 00:06:17	Dark	40.500	70	Zet Pup	2.2460	39000.	81	10119	No
GOM_TRA_1PNPDE20040206_000736_000000432024_00045_10119_0000.N1	06-FEB-2004 00:07:36	Dark	42.500	117	Pi Pup	2.7060	3800.0	85	10119	Yes
GOM_TRA_1PNPDE20040206_001002_000000442024_00045_10119_0001.N1	06-FEB-2004 00:10:02	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	10119	No
GOM_TRA_1PNPDE20040206_001125_000000402024_00045_10119_0002.N1	06-FEB-2004 00:11:25	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	10119	No
GOM_TRA_1PNPDE20040206_001335_000000442024_00045_10119_0003.N1	06-FEB-2004 00:13:35	Dark	43.500	1	9Alp CMa	-1.4400	11000.	87	10119	No
GOM_TRA_1PNPDE20040206_001912_000000522024_00045_10119_0004.N1	06-FEB-2004 00:19:12	Dark	52.000	8	10Alp CMi	0.40000	6500.0	104	10119	No
GOM_TRA_1PNPDE20040206_002249_000000392024_00045_10119_0005.N1	06-FEB-2004 00:22:49	Bright	38.500	44	24Gam Gem	1.9280	11000.	77	10119	No
GOM_TRA_1PNPDE20040206_002442_000000402024_00045_10119_0006.N1	06-FEB-2004 00:24:42	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	10119	No
GOM_TRA_1PNPDE20040206_002648_000000382024_00045_10119_0007.N1	06-FEB-2004 00:26:48	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	10119	No
GOM_TRA_1PNPDE20040206_002902_000000362024_00045_10119_0008.N1	06-FEB-2004 00:29:02	Bright	36.000	107	37The Aur	2.6490	11000.	72	10119	No
GOM_TRA_1PNPDE20040206_003105_000000372024_00045_10119_0009.N1	06-FEB-2004 00:31:05	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	10119	No
GOM_TRA_1PNPDE20040206_003919_000000452024_00045_10119_0010.N1	06-FEB-2004 00:39:19	Bright	44.500	82	48Bet UMa	2.3650	10600.	89	10119	No
GOM_TRA_1PNPDE20040206_004306_000000332024_00045_10119_0011.N1	06-FEB-2004 00:43:06	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	10119	No
GOM_TRA_1PNPDE20040206_004554_000000412024_00045_10119_0012.N1	06-FEB-2004 00:45:54	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	10119	No
GOM_TRA_1PNPDE20040206_004930_000000352024_00045_10119_0013.N1	06-FEB-2004 00:49:30	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	10119	No
GOM_TRA_1PNPDE20040206_005403_000000392024_00045_10119_0014.N1	06-FEB-2004 00:54:03	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	10119	No
GOM_TRA_1PNPDE20040206_005619_000000362024_00045_10119_0015.N1	06-FEB-2004 00:56:19	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	10119	No
GOM_TRA_1PNPDE20040206_005751_000000362024_00045_10119_0016.N1	06-FEB-2004 00:57:51	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	10119	No
GOM_TRA_1PNPDE20040206_010054_000000482024_00045_10119_0017.N1	06-FEB-2004 01:00:54	Bright	47.500	133	40Zet Her	2.8070	6000.0	95	10119	No
GOM_TRA_1PNPDE20040206_010548_000001462024_00045_10119_0018.N1	06-FEB-2004 01:05:48	Dark	146.00	83		2.3780	11000.	292	10119	No
GOM_TRA_1PNPDE20040206_011250_000000742024_00045_10119_0019.N1	06-FEB-2004 01:12:50	Dark	74.000	102	24Alp Ser	2.6000	4250.0	148	10119	No
GOM_TRA_1PNPDE20040206_011507_000000422024_00045_10119_0020.N1	06-FEB-2004 01:15:07	Dark	42.000	86	35Eta Oph	2.4300	10200.	84	10119	No
GOM_TRA_1PNPDE20040206_011707_000000442024_00045_10119_0021.N1	06-FEB-2004 01:17:07	Dark	43.500	116	19Del Sgr	2.7000	4100.0	87	10119	No
GOM_TRA_1PNPDE20040206_011818_000000442024_00045_10119_0022.N1	06-FEB-2004 01:18:18	Dark	44.000	38	20Eps Sgr	1.8360	11000.	88	10119	No
GOM_TRA_1PNPDE20040206_011959_000000402024_00045_10119_0023.N1	06-FEB-2004 01:19:59	Dark	39.500	25	35Lam Sco	1.6200	28000.	79	10119	No
GOM_TRA_1PNPDE20040206_012124_000000432024_00045_10119_0024.N1	06-FEB-2004 01:21:24	Dark	43.000	40	The Sco	1.8590	7100.0	86	10119	No
GOM_TRA_1PNPDE20040206_012315_000000382024_00045_10119_0025.N1	06-FEB-2004 01:23:15	Dark	38.000	147	Alp Ara	2.8770	26000.	76	10119	No
GOM_TRA_1PNPDE20040206_012532_000000462024_00045_10119_0026.N1	06-FEB-2004 01:25:32	Dark	45.500	131	Gam Lup	2.8000	26000.	91	10119	No
GOM_TRA_1PNPDE20040206_012836_000000402024_00046_10120_0027.N1	06-FEB-2004 01:28:36	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	10120	No
GOM_TRA_1PNPDE20040206_013432_000000412024_00046_10120_0028.N1	06-FEB-2004 01:34:32	Dark	40.500	20	Bet Cru	1.2530	30000.	81	10120	No
GOM_TRA_1PNPDE20040206_013554_000000482024_00046_10120_0029.N1	06-FEB-2004 01:35:54	Dark	48.000	64	Gam Cen	2.2000	10600.	96	10120	No
GOM_TRA_1PNPDE20040206_013810_000000392024_00046_10120_0030.N1	06-FEB-2004 01:38:10	Dark	38.500	29	Bet Car	1.6720	10200.	77	10120	No
GOM_TRA_1PNPDE20040206_014123_000000432024_00046_10120_0031.N1	06-FEB-2004 01:41:23	Dark	42.500	41	Eps Car	1.8600	4100.0	85	10120	No
GOM_TRA_1PNPDE20040206_014455_000000442024_00046_10120_0032.N1	06-FEB-2004 01:44:55	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	10120	No
GOM_TRA_1PNPDE20040206_014653_000000402024_00046_10120_0033.N1	06-FEB-2004 01:46:53	Dark	40.000	70	Zet Pup	2.2460	39000.	80	10120	No
GOM_TRA_1PNPDE20040206_014812_000000422024_00046_10120_0034.N1	06-FEB-2004 01:48:12	Dark	42.000	117	Pi Pup	2.7060	3800.0	84	10120	No
GOM_TRA_1PNPDE20040206_015038_000000432024_00046_10120_0000.N1	06-FEB-2004 01:50:38	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	10120	No
GOM_TRA_1PNPDE20040206_015201_000000402024_00046_10120_0001.N1	06-FEB-2004 01:52:01	Dark	40.000	179	24Omi2CMa	3.0320	24000.	80	10120	No
GOM_TRA_1PNPDE20040206_015411_000000472024_00046_10120_0002.N1	06-FEB-2004 01:54:11	Dark	47.000	1	9Alp CMa	-1.4400	11000.	94	10120	No
GOM_TRA_1PNPDE20040206_015948_000000522024_00046_10120_0003.N1	06-FEB-2004 01:59:48	Dark	52.000	8	10Alp CMi	0.40000	6500.0	104	10120	No
GOM_TRA_1PNPDE20040206_020325_000000372024_00046_10120_0004.N1	06-FEB-2004 02:03:25	Bright	36.500	44	24Gam Gem	1.9280	11000.	73	10120	No
GOM_TRA_1PNPDE20040206_020518_000000402024_00046_10120_0005.N1	06-FEB-2004 02:05:18	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	10120	No
GOM_TRA_1PNPDE20040206_020724_000000392024_00046_10120_0006.N1	06-FEB-2004 02:07:24	Bright	39.000	24	66Alp Gem	1.5800	10200.	78	10120	No
GOM_TRA_1PNPDE20040206_020938_000000372024_00046_10120_0007.N1	06-FEB-2004 02:09:38	Bright	36.500	107	37The Aur	2.6490	11000.	73	10120	No
GOM_TRA_1PNPDE20040206_021141_000000352024_00046_10120_0008.N1	06-FEB-2004 02:11:41	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	10120	No
GOM_TRA_1PNPDE20040206_021954_000000482024_00046_10120_0009.N1	06-FEB-2004 02:19:54	Bright	47.500	82	48Bet UMa	2.3650	10600.	95	10120	No
GOM_TRA_1PNPDE20040206_022342_000000372024_00046_10120_0010.N1	06-FEB-2004 02:23:42	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	10120	No

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



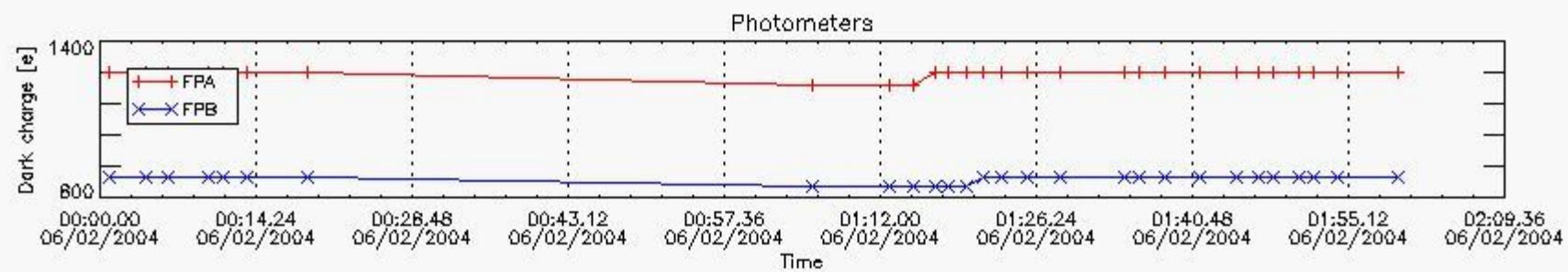
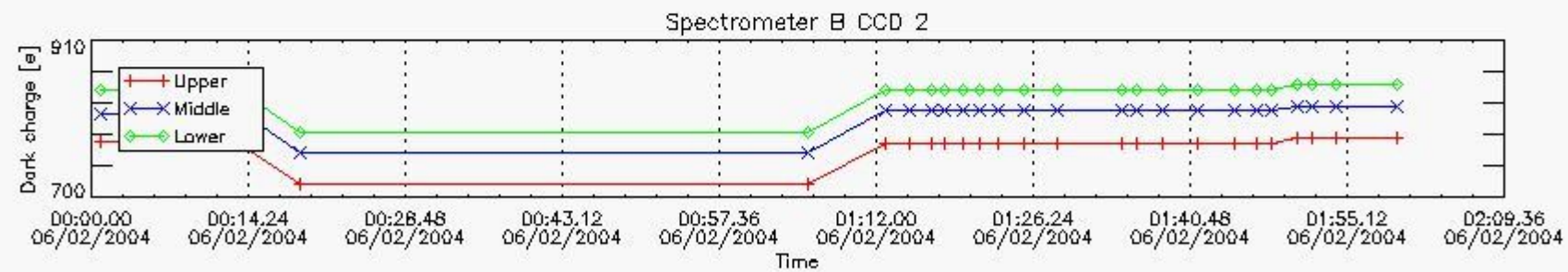
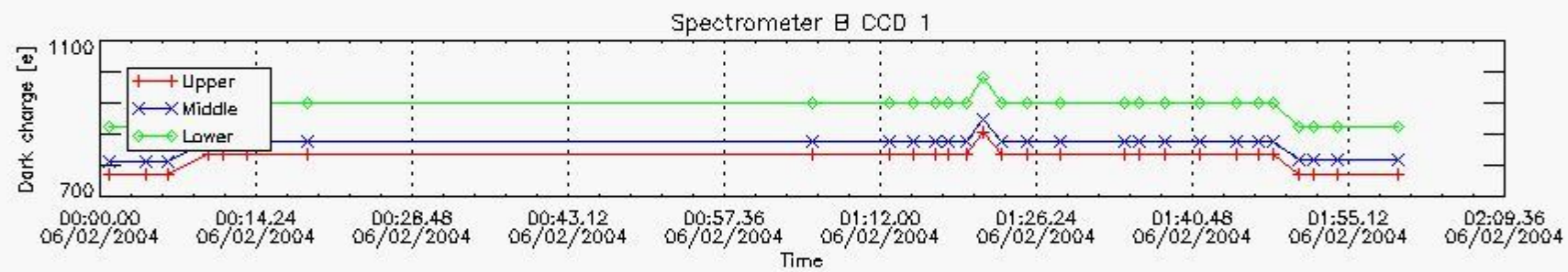
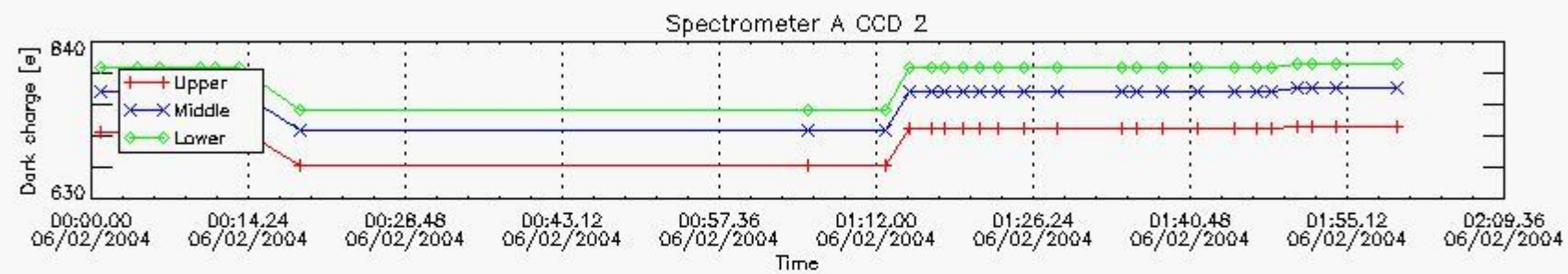
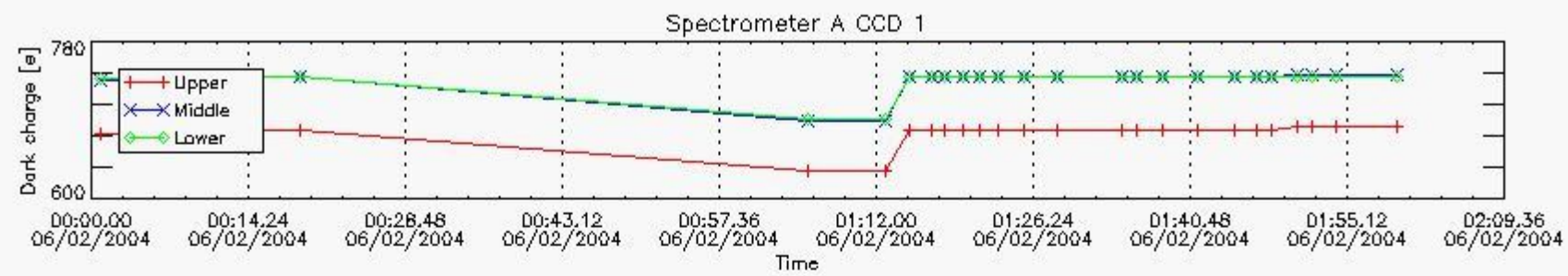
4. Overview of dark signal processing per product

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

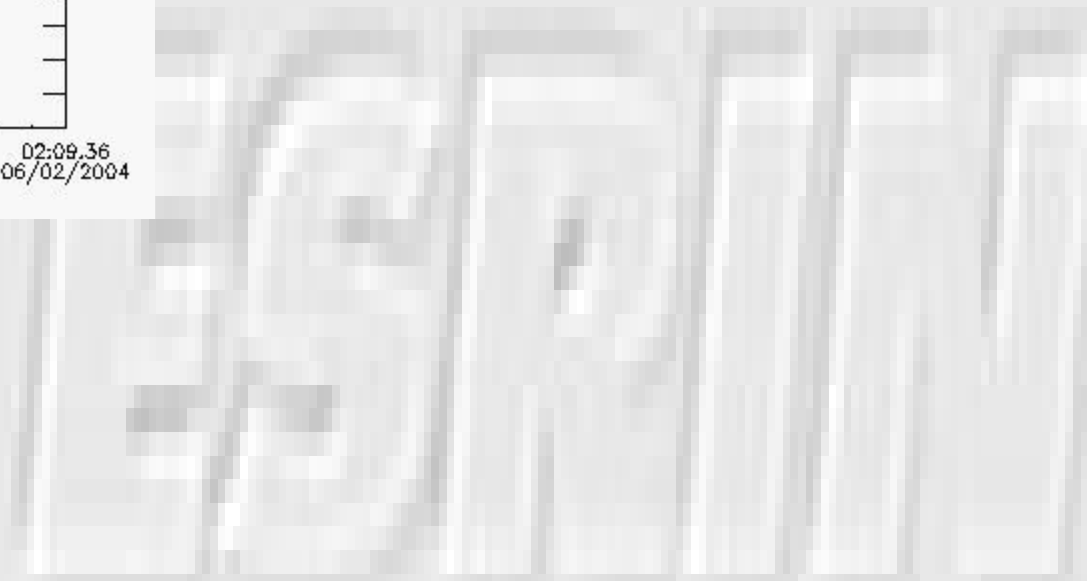
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



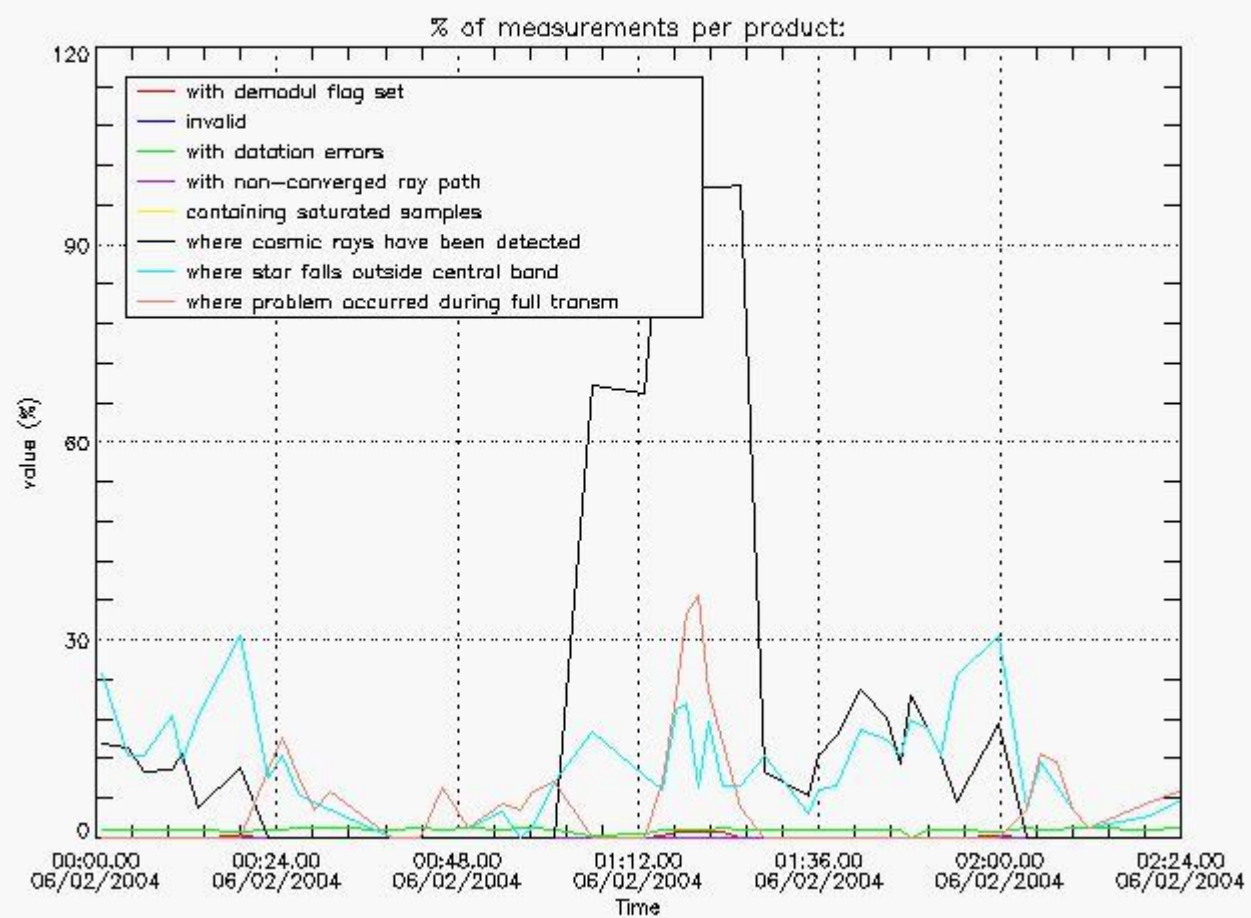
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.9167 %
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



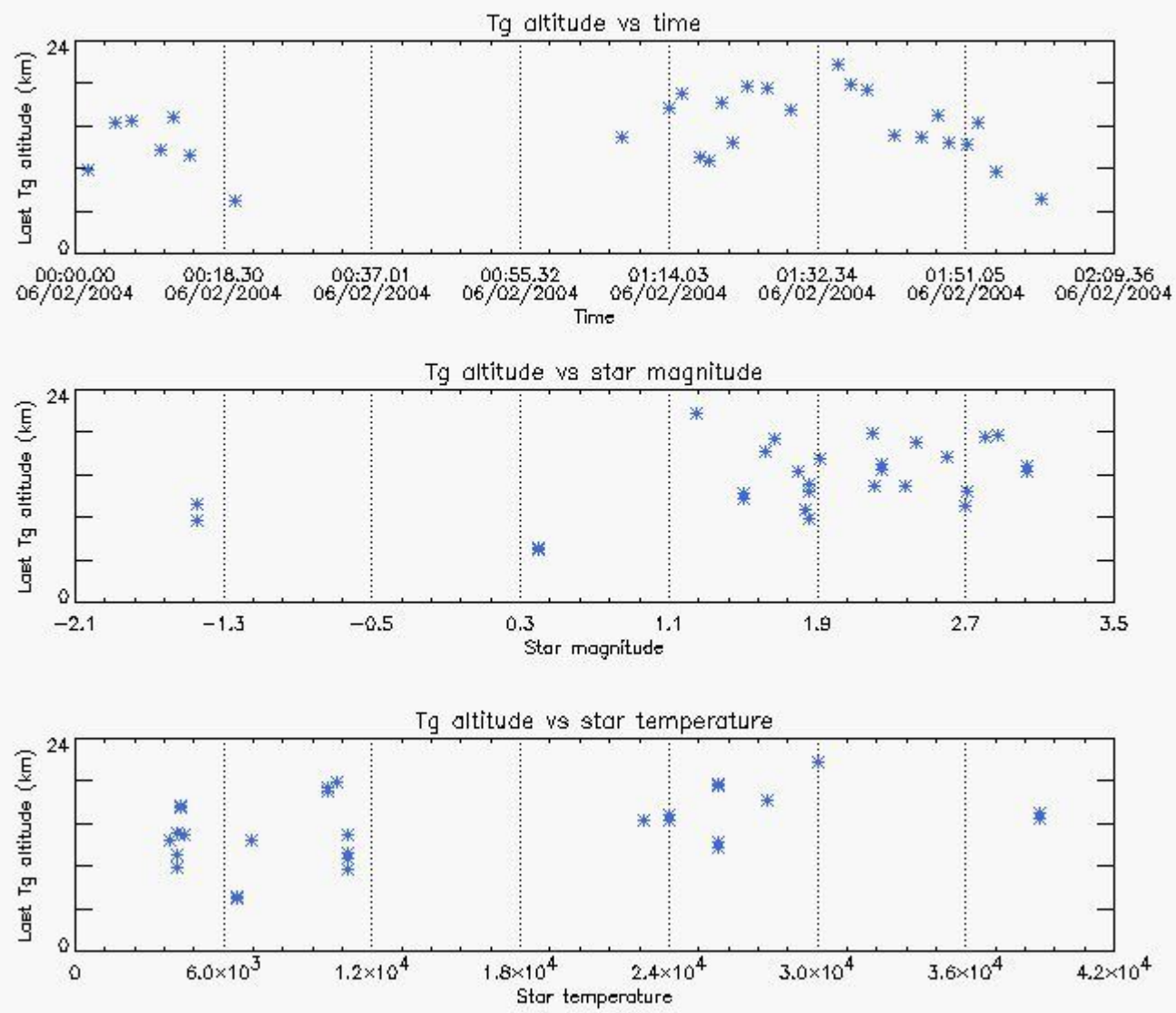
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.002	21.230
St. deviation:	3.8721	3.8704
Maximum:	21.309	29.862
Minimum:	5.9939	14.785
Number of data:	28.000	20.000

6.2 Plot for DARK limb products

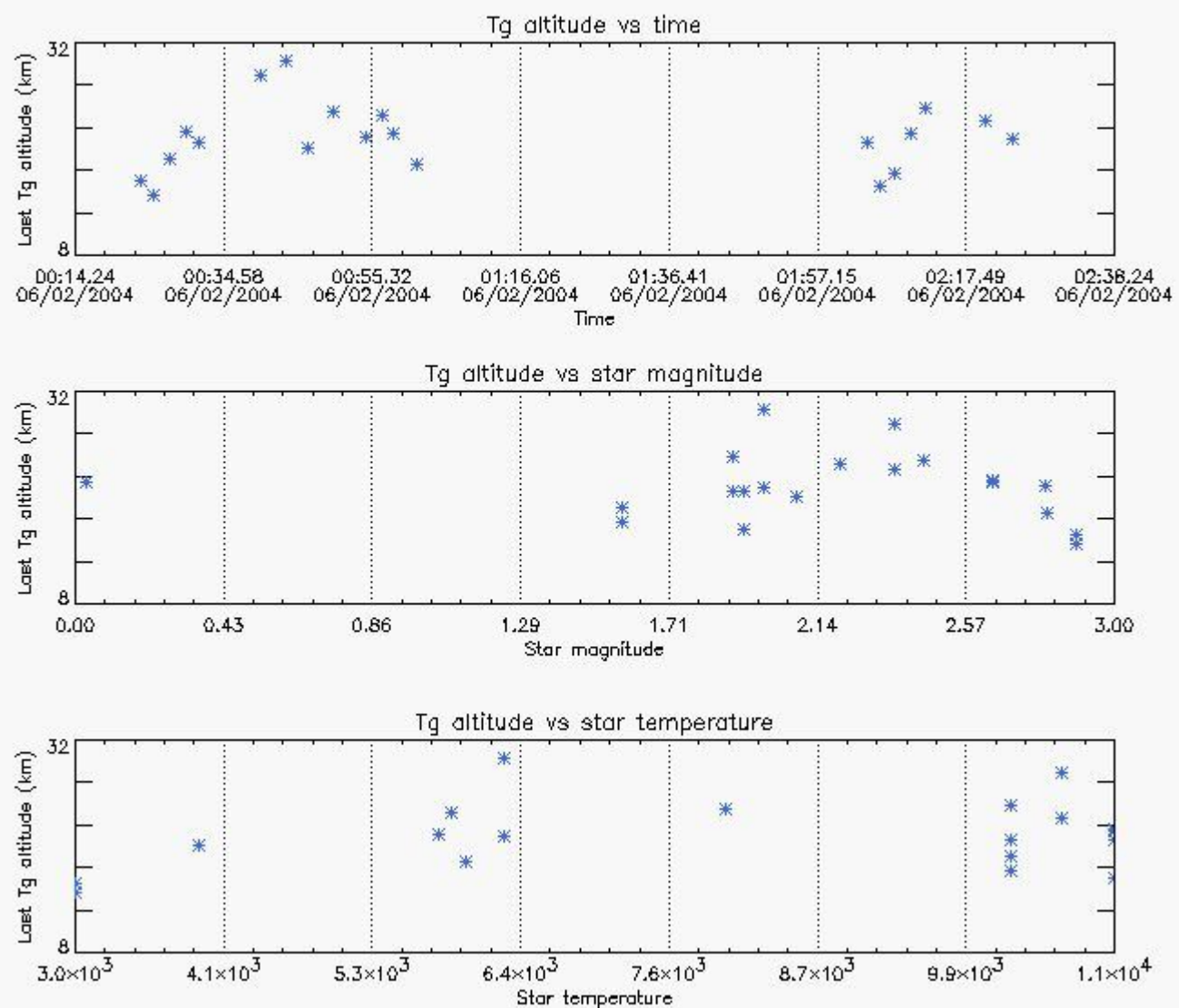
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



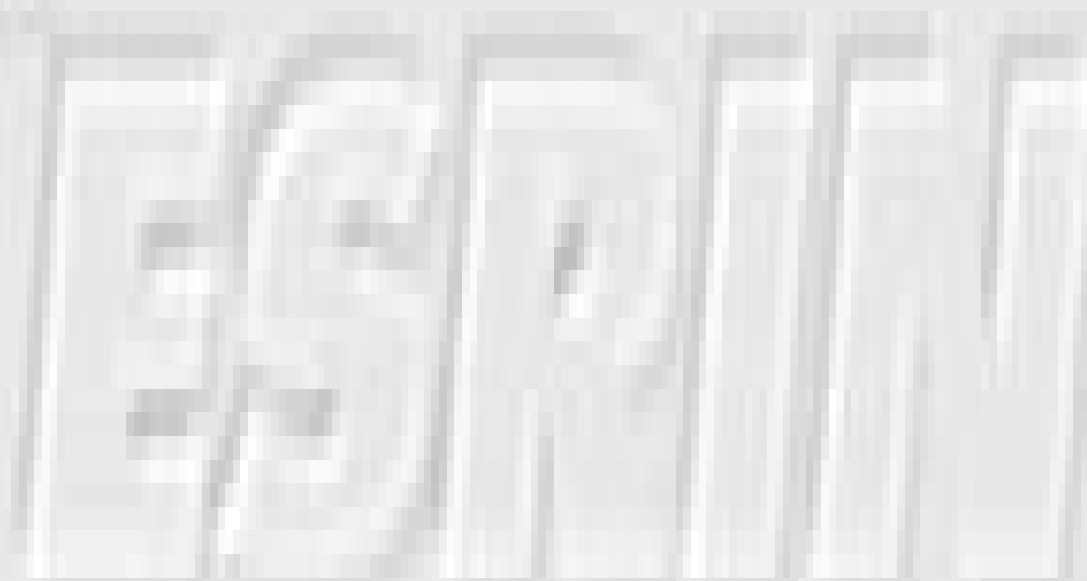
Tangent altitude at which the star is lost



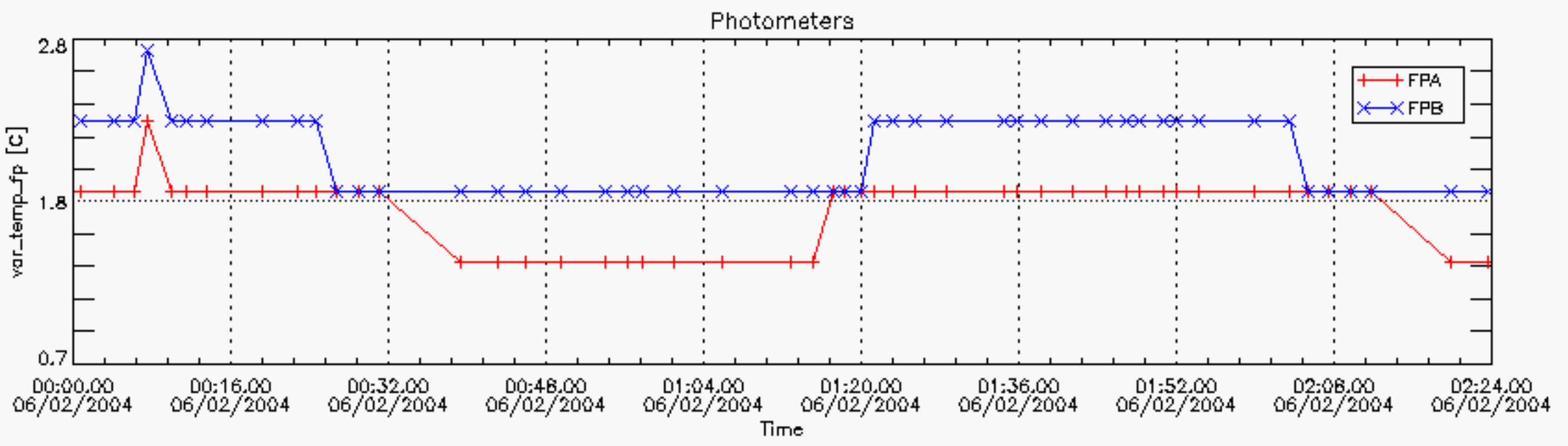
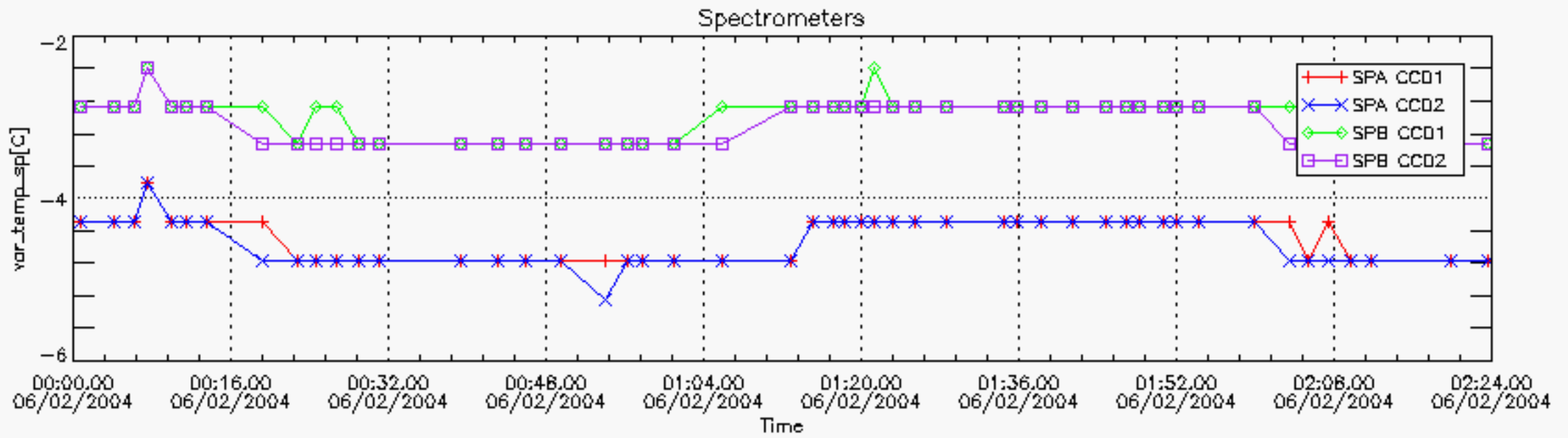
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

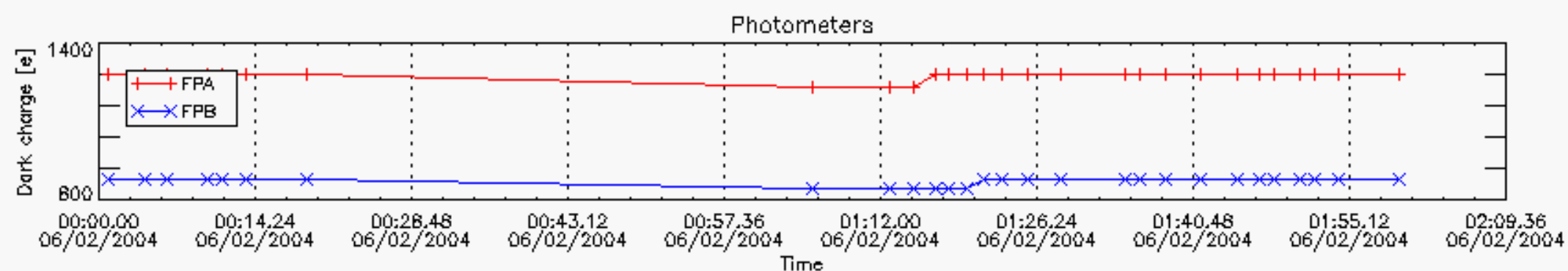
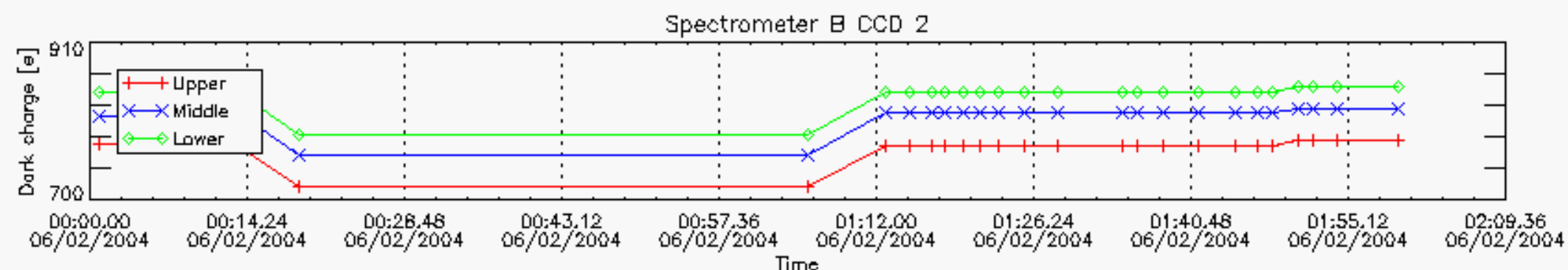
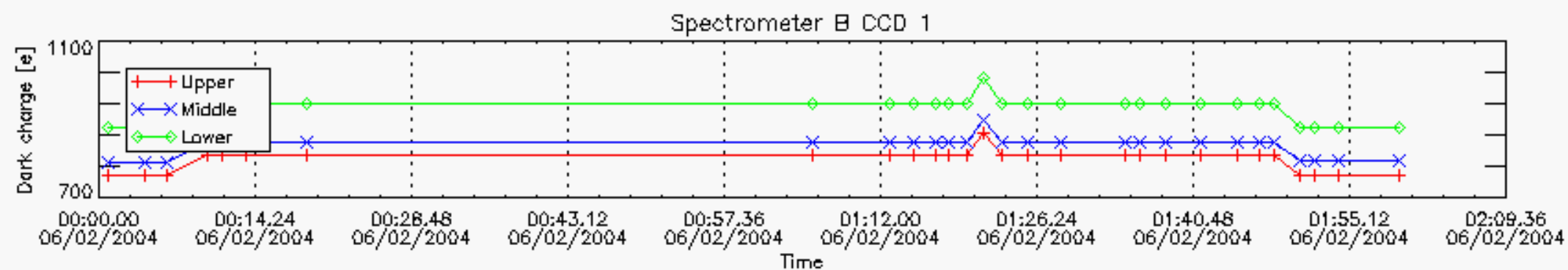
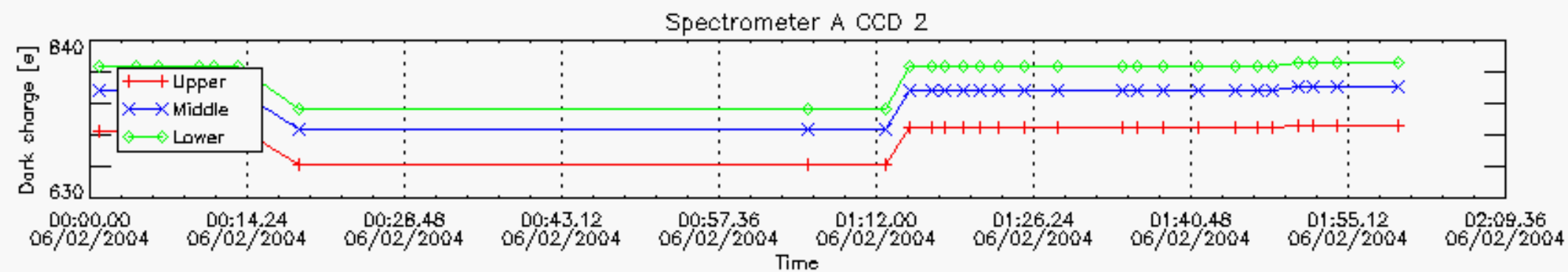
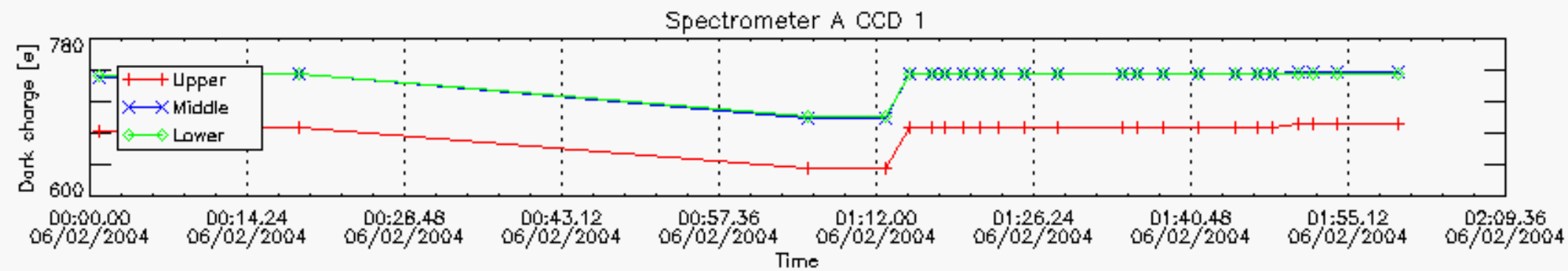
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

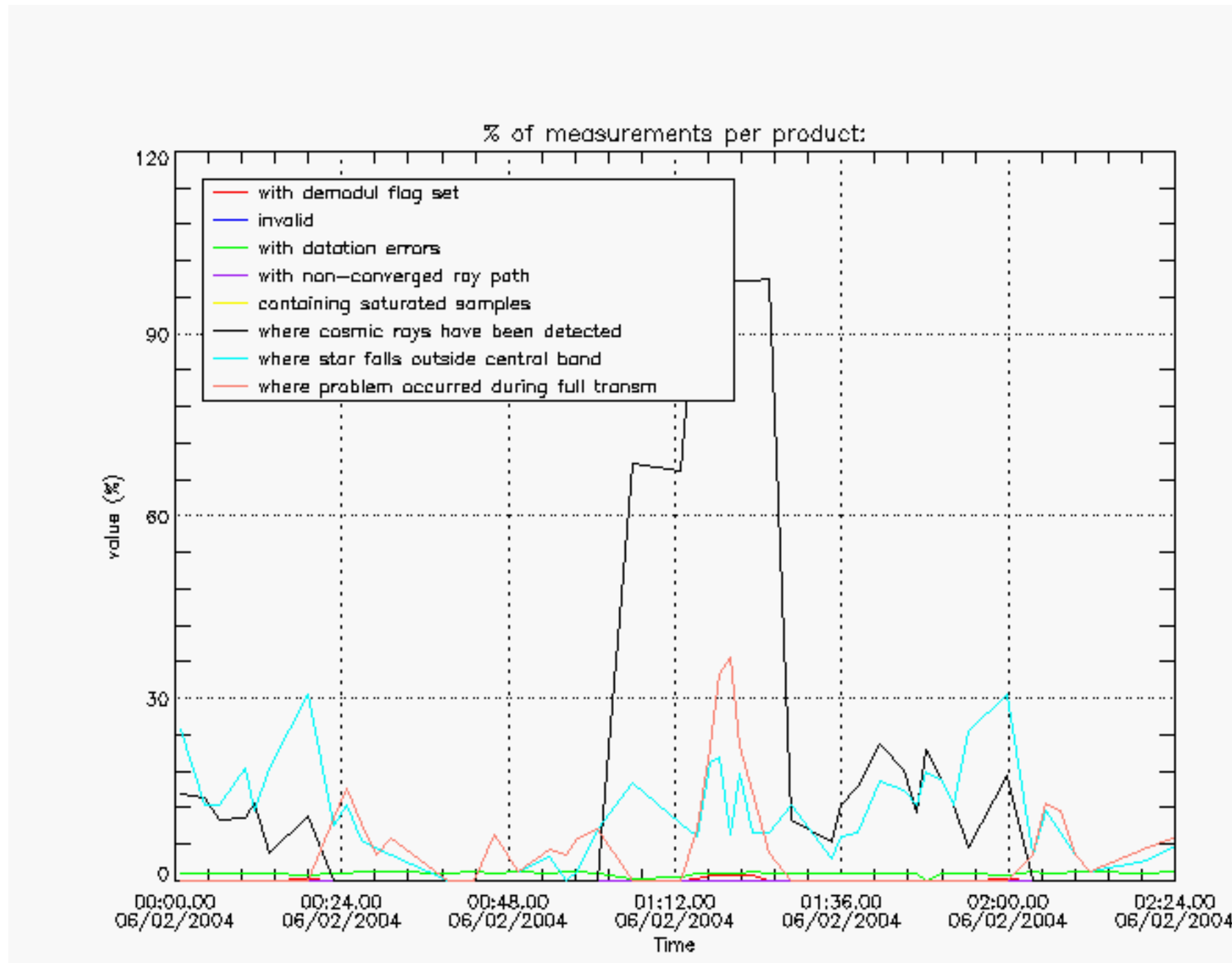
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.4	1446.7	1460.1	1447.2
St. deviation:	5.1031	7.9358	6.5364	8.7199
Maximum:	1556.0	1538.0	1502.0	1494.0
Minimum:	1458.0	1424.0	1444.0	1426.0
Number of data:	29850.	29850.	19100.	19100.



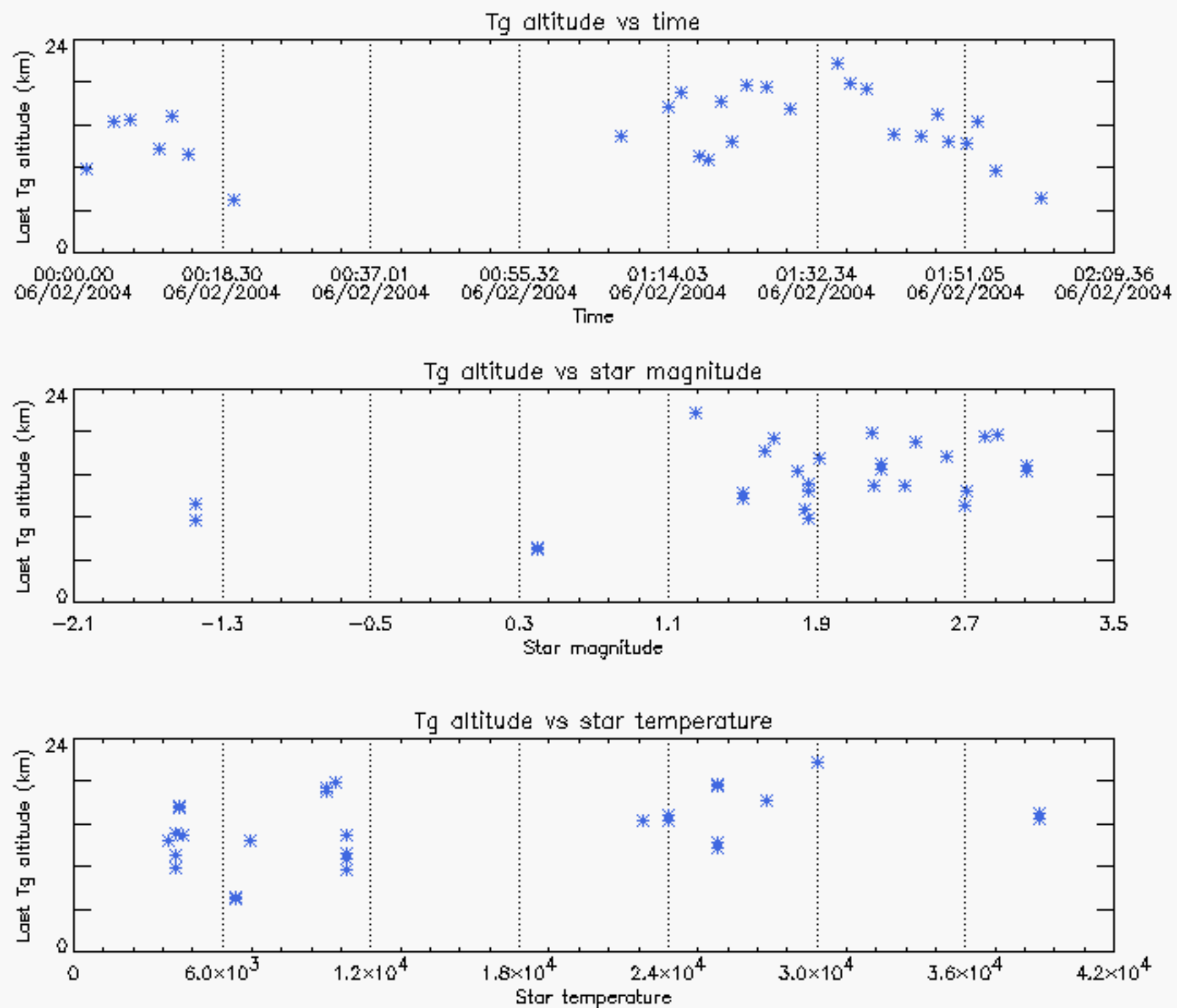








Tangent altitude at which the star is lost



/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
 25; -219.4; 01-FEB-2004 07:22:11; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;10051
 26; -119.6; 01-FEB-2004 07:23:51; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;10051
 27; 192.5; 01-FEB-2004 07:29:03; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;10052
 28; 272.8; 01-FEB-2004 07:30:24; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10052
 29; 468.2; 01-FEB-2004 07:33:39; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;10052
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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
20; -556.5; 02-FEB-2004 15:07:57; Dark ; 44.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 89; 0;10070
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
30; 878.2; 02-FEB-2004 15:31:51; Dark ; 49.0; 41; Eps Car ; 1.86; 4100;occ; 98; 0;10071
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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4;-4563.3; 02-FEB-2004 19:02:58; Dark ; 43.0; 37; 25Del CMA ; 1.83; 5900;occ; 86; 0;10073
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9;-3723.8; 02-FEB-2004 19:16:57; Bright; 41.0; 151; 13Mu Gem ; 2.89; 3000;occ; 82; 0;10073
10;-3582.7; 02-FEB-2004 19:19:19; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 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
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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26;-325.7; 02-FEB-2004 20:13:36; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;10073
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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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
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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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28;	485.2;	03-FEB-2004	13:13:05;	Dark	;	40.5;	12;	Alp1Cru	;	0.77;	30000;occ;	81;	0;	10084
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26;	122.2;	06-FEB-2004	14:53:23;	Dark	;	42.5;	43;	Alp TrA	;	1.91;	4250;occ;	85;	0;	10128
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5;	-3645.4;	18-FEB-2004	15:54:11;	Bright;		39.0;	17;	78Bet Gem	;	1.16;	4500;occ;	78;	0;	10300
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7;	-3368.5;	18-FEB-2004	15:58:48;	Bright;		113.5;	62;	94Bet Leo	;	2.14;	9700;occ;	227;	0;	10300
8;	-3092.6;	18-FEB-2004	16:03:24;	Bright;		53.0;	174;	52Psi UMa	;	3.00;	4400;occ;	106;	0;	10300
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17;	-1706.2;	18-FEB-2004	16:26:30;	Bright;		41.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	82;	0;	10300
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26;	114.2;	18-FEB-2004	16:56:51;	Dark	;	58.5;	0;		;	0.00;	0;occ;	117;	0;	10301
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28;	337.1;	18-FEB-2004	17:00:34;	Dark	;	45.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	90;	0;	10301
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31;	595.8;	18-FEB-2004	17:04:52;	Dark	;	45.0;	12;	Alp1Cru	;	0.77;	30000;occ;	90;	0;	10301
32;	728.8;	18-FEB-2004	17:07:05;	Dark	;	41.0;	29;	Bet Car	;	1.67;	10200;occ;	82;	0;	10301
33;	889.3;	18-FEB-2004	17:09:46;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	10301
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8;	-3575.3;	18-FEB-2004	19:16:33;	Bright;		37.5;	24;	66Alp Gem	;	1.58;	10200;occ;	75;	0;	10302
9;	-3374.4;	18-FEB-2004	19:19:54;	Bright;		119.5;	62;	94Bet Leo	;	2.14;	9700;occ;	239;	0;	10302
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13;	-2605.9;	18-FEB-2004	19:32:43;	Bright;		37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	10302
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15;	-2372.9;	18-FEB-2004	19:36:36;	Bright;		64.5;	39;	85Eta UMa	;	1.85;	24000;occ;	129;	0;	10302
16;	-2202.6;	18-FEB-2004	19:39:26;	Bright;		46.0;	119;	14Eta Dra	;	2.73;	4700;occ;	92;	0;	10302
17;	-1942.3;	18-FEB-2004	19:43:46;	Bright;		42.0;	69;	33Gam Dra	;	2.23;	3800;occ;	84;	0;	10302
18;	-1839.1;	18-FEB-2004	19:45:29;	Bright;		37.0;	144;	18Del Cyg	;	2.86;	11000;occ;	74;	0;	10302
19;	-1705.3;	18-FEB-2004	19:47:43;	Bright;		42.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	85;	0;	10302
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26;	-234.7;	18-FEB-2004	20:12:14;	Dark	;	59.5;	16;	21Alp Sco	;	1.02;	3000;occ;	119;	0;	10302
27;	-123.3;	18-FEB-2004	20:14:05;	Dark	;	41.5;	147;	Alp Ara	;	2.88;	26000;occ;	83;	0;	10302
28;	114.6;	18-FEB-2004	20:18:03;	Dark	;	58.5;	0;		;	0.00;	0;occ;	117;	0;	10303
29;	198.1;	18-FEB-2004	20:19:27;	Dark	;	40.0;	134;	Bet TrA	;	2.81;	6600;occ;	80;	0;	10303
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23;	-420.8;	21-FEB-2004	11:51:53;	Dark	;	43.5;	38;	20Eps	Sgr	;	1.84;	11000;	occ;	87;	0;	10340
24;	-275.3;	21-FEB-2004	11:54:18;	Dark	;	51.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	103;	0;	10340
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27;	123.2;	21-FEB-2004	12:00:57;	Dark	;	58.5;	0;			;	0.00;	0;	occ;	117;	0;	10341
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