

GOMOS Daily Report 10-FEB-2004

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

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

[2.2 Level 1 products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[7. Statistics on SATU Noise Equivalent Angle](#)

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	11FEB2004 06:55:44
Data source version	<Any version>
Start time of products	10-FEB-2004 (10FEB2004 00:00:00)
Stop time of products	11-FEB-2004 (11FEB2004 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

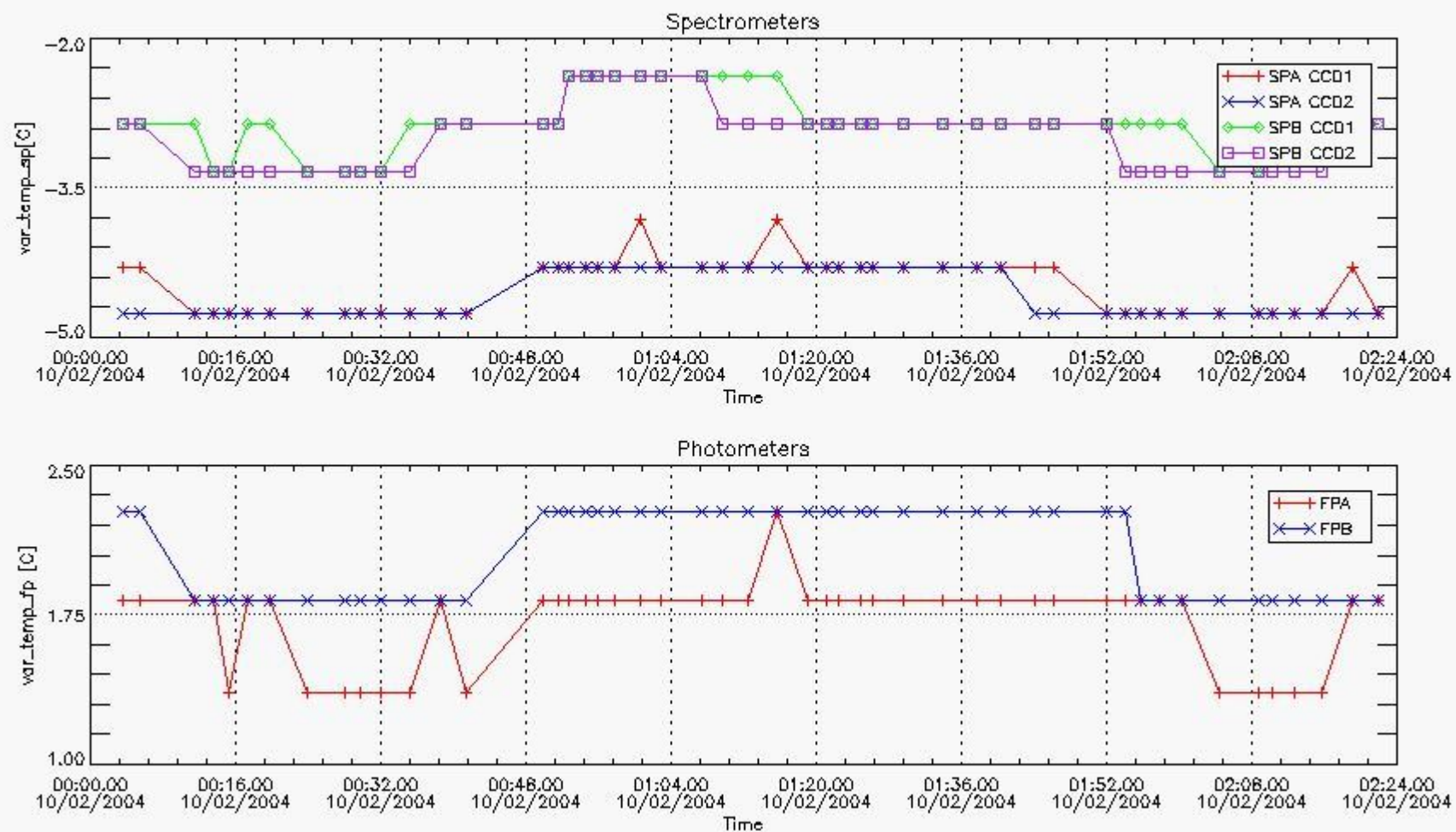
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040210_000329_000000372024_00102_10176_0008.N1	10-FEB-2004 00:03:29	Bright	37.000	107	37The Aur	2.6490	11000.	74	10176	No
GOM_TRA_1PNPDE20040210_000529_000000392024_00102_10176_0009.N1	10-FEB-2004 00:05:29	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	10176	No
GOM_TRA_1PNPDE20040210_001124_000000562024_00102_10176_0010.N1	10-FEB-2004 00:11:24	Bright	56.000	174	52Psi UMa	3.0040	4400.0	112	10176	No
GOM_TRA_1PNPDE20040210_001332_000000432024_00102_10176_0011.N1	10-FEB-2004 00:13:32	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	10176	No
GOM_TRA_1PNPDE20040210_001514_000000532024_00102_10176_0012.N1	10-FEB-2004 00:15:14	Bright	53.000	87	64Gam UMa	2.4330	11000.	106	10176	No
GOM_TRA_1PNPDE20040210_001714_000000352024_00102_10176_0013.N1	10-FEB-2004 00:17:14	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	10176	No
GOM_TRA_1PNPDE20040210_001945_000000432024_00102_10176_0014.N1	10-FEB-2004 00:19:45	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	10176	No
GOM_TRA_1PNPDE20040210_002352_000000372024_00102_10176_0015.N1	10-FEB-2004 00:23:52	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	10176	No
GOM_TRA_1PNPDE20040210_002805_000000422024_00102_10176_0016.N1	10-FEB-2004 00:28:05	Bright	42.000	130	23Bet Dra	2.7990	5800.0	84	10176	No
GOM_TRA_1PNPDE20040210_002944_000000372024_00102_10176_0017.N1	10-FEB-2004 00:29:44	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	10176	No
GOM_TRA_1PNPDE20040210_003204_000000382024_00102_10176_0018.N1	10-FEB-2004 00:32:04	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	10176	No
GOM_TRA_1PNPDE20040210_003509_000000512024_00102_10176_0019.N1	10-FEB-2004 00:35:09	Bright	50.500	133	40Zet Her	2.8070	6000.0	101	10176	No
GOM_TRA_1PNPDE20040210_003834_000000822024_00102_10176_0020.N1	10-FEB-2004 00:38:34	Bright	82.000	67	5Alp CrB	2.2210	11000.	164	10176	No
GOM_TRA_1PNPDE20040210_004121_000002442024_00102_10176_0021.N1	10-FEB-2004 00:41:21	Dark	243.50	83		2.3780	11000.	487	10176	No
GOM_TRA_1PNPDE20040210_004950_000000512024_00102_10176_0022.N1	10-FEB-2004 00:49:50	Dark	51.000	86	35Eta Oph	2.4300	10200.	102	10176	No
GOM_TRA_1PNPDE20040210_005129_000000412024_00102_10176_0023.N1	10-FEB-2004 00:51:29	Dark	41.000	116	19Del Sgr	2.7000	4100.0	82	10176	No
GOM_TRA_1PNPDE20040210_005238_000000432024_00102_10176_0024.N1	10-FEB-2004 00:52:38	Dark	43.000	38	20Eps Sgr	1.8360	11000.	86	10176	No
GOM_TRA_1PNPDE20040210_005431_000000432024_00102_10176_0025.N1	10-FEB-2004 00:54:31	Dark	42.500	25	35Lam Sco	1.6200	28000.	85	10176	No
GOM_TRA_1PNPDE20040210_005553_000000442024_00102_10176_0026.N1	10-FEB-2004 00:55:53	Dark	44.000	40	The Sco	1.8590	7100.0	88	10176	No
GOM_TRA_1PNPDE20040210_005742_000000402024_00102_10176_0027.N1	10-FEB-2004 00:57:42	Dark	39.500	147	Alp Ara	2.8770	26000.	79	10176	No
GOM_TRA_1PNPDE20040210_010031_000000472024_00102_10176_0028.N1	10-FEB-2004 01:00:31	Dark	46.500	131	Gam Lup	2.8000	26000.	93	10176	No
GOM_TRA_1PNPDE20040210_010257_000000442024_00103_10177_0029.N1	10-FEB-2004 01:02:57	Dark	43.500	43	Alp TrA	1.9100	4250.0	87	10177	No
GOM_TRA_1PNPDE20040210_010728_000000452024_00103_10177_0030.N1	10-FEB-2004 01:07:28	Dark	44.500	77	Eps Cen	2.3030	28000.	89	10177	No
GOM_TRA_1PNPDE20040210_010935_000000462024_00103_10177_0031.N1	10-FEB-2004 01:09:35	Dark	46.000	12	Alp1Cru	0.77500	30000.	92	10177	No
GOM_TRA_1PNPDE20040210_011226_000000412024_00103_10177_0032.N1	10-FEB-2004 01:12:26	Dark	40.500	29	Bet Car	1.6720	10200.	81	10177	No
GOM_TRA_1PNPDE20040210_011541_000000472024_00103_10177_0033.N1	10-FEB-2004 01:15:41	Dark	46.500	41	Eps Car	1.8600	4100.0	93	10177	No
GOM_TRA_1PNPDE20040210_011906_000000432024_00103_10177_0034.N1	10-FEB-2004 01:19:06	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	10177	No
GOM_TRA_1PNPDE20040210_012111_000000402024_00103_10177_0035.N1	10-FEB-2004 01:21:11	Dark	39.500	70	Zet Pup	2.2460	39000.	79	10177	No
GOM_TRA_1PNPDE20040210_012229_000000442024_00103_10177_0000.N1	10-FEB-2004 01:22:29	Dark	43.500	117	Pi Pup	2.7060	3800.0	87	10177	No
GOM_TRA_1PNPDE20040210_012455_000000452024_00103_10177_0001.N1	10-FEB-2004 01:24:55	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	10177	No
GOM_TRA_1PNPDE20040210_012618_000000422024_00103_10177_0002.N1	10-FEB-2004 01:26:18	Dark	42.000	179	24Omi2CMa	3.0320	24000.	84	10177	No
GOM_TRA_1PNPDE20040210_012939_000000602024_00103_10177_0003.N1	10-FEB-2004 01:29:39	Dark	59.500	48	30Alp Hya	1.9770	4100.0	119	10177	No
GOM_TRA_1PNPDE20040210_013358_000000522024_00103_10177_0004.N1	10-FEB-2004 01:33:58	Dark	52.000	8	10Alp CMI	0.40000	6500.0	104	10177	No
GOM_TRA_1PNPDE20040210_013746_000000402024_00103_10177_0005.N1	10-FEB-2004 01:37:46	Bright	40.000	44	24Gam Gem	1.9280	11000.	80	10177	No
GOM_TRA_1PNPDE20040210_014024_000000422024_00103_10177_0006.N1	10-FEB-2004 01:40:24	Bright	42.000	17	78Bet Gem	1.1610	4500.0	84	10177	No
GOM_TRA_1PNPDE20040210_014405_000000382024_00103_10177_0007.N1	10-FEB-2004 01:44:05	Bright	37.500	107	37The Aur	2.6490	11000.	75	10177	No
GOM_TRA_1PNPDE20040210_014604_000000392024_00103_10177_0008.N1	10-FEB-2004 01:46:04	Bright	38.500	42	34Bet Aur	1.9000	10200.	77	10177	No
GOM_TRA_1PNPDE20040210_015159_000000572024_00103_10177_0009.N1	10-FEB-2004 01:51:59	Bright	56.500	174	52Psi UMa	3.0040	4400.0	113	10177	No
GOM_TRA_1PNPDE20040210_015407_000000452024_00103_10177_0010.N1	10-FEB-2004 01:54:07	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	10177	No
GOM_TRA_1PNPDE20040210_015548_000000542024_00103_10177_0011.N1	10-FEB-2004 01:55:48	Bright	54.000	87	64Gam UMa	2.4330	11000.	108	10177	No
GOM_TRA_1PNPDE20040210_015749_000000362024_00103_10177_0012.N1	10-FEB-2004 01:57:49	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	10177	No
GOM_TRA_1PNPDE20040210_020021_000000402024_00103_10177_0013.N1	10-FEB-2004 02:00:21	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	10177	No
GOM_TRA_1PNPDE20040210_020427_000000382024_00103_10177_0014.N1	10-FEB-2004 02:04:27	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	10177	No
GOM_TRA_1PNPDE20040210_020842_000000422024_00103_10177_0015.N1	10-FEB-2004 02:08:42	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	10177	No
GOM_TRA_1PNPDE20040210_021020_000000352024_00103_10177_0016.N1	10-FEB-2004 02:10:20	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	10177	No
GOM_TRA_1PNPDE20040210_021240_000000412024_00103_10177_0017.N1	10-FEB-2004 02:12:40	Bright	40.500	5	3Alp Lyr	0.033000	11000.	81	10177	No
GOM_TRA_1PNPDE20040210_021545_000000532024_00103_10177_0018.N1	10-FEB-2004 02:15:45	Bright	52.500	133	40Zet Her	2.8070	6000.0	105	10177	No
GOM_TRA_1PNPDE20040210_021911_000000832024_00103_10177_0019.N1	10-FEB-2004 02:19:11	Bright	82.500	67	5Alp CrB	2.2210	11000.	165	10177	No
GOM_TRA_1PNPDE20040210_022159_000002542024_00103_10177_0020.N1	10-FEB-2004 02:21:59	Dark	254.00	83		2.3780	11000.	508	10177	No

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



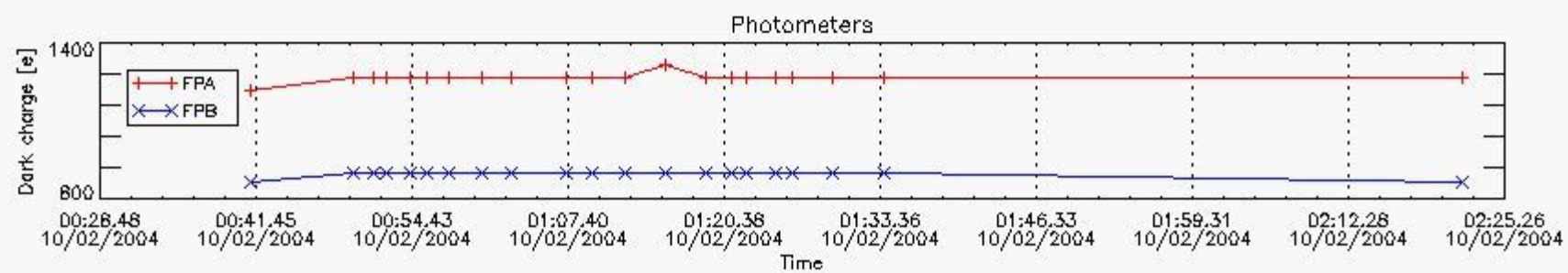
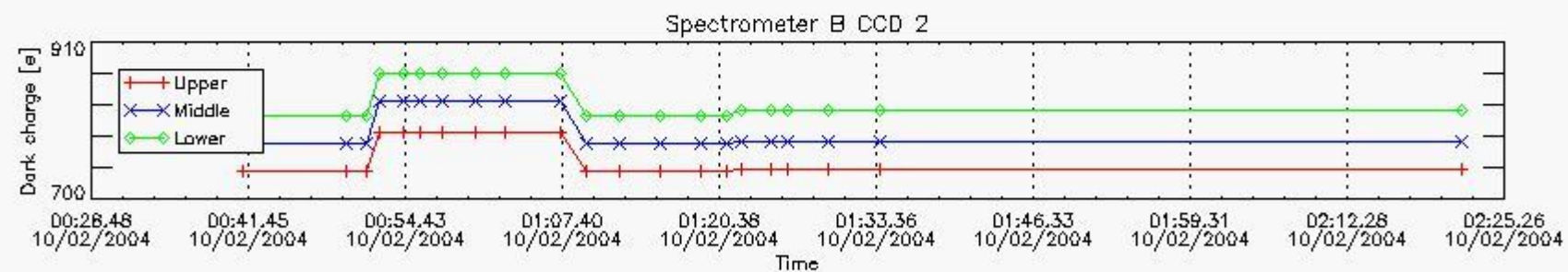
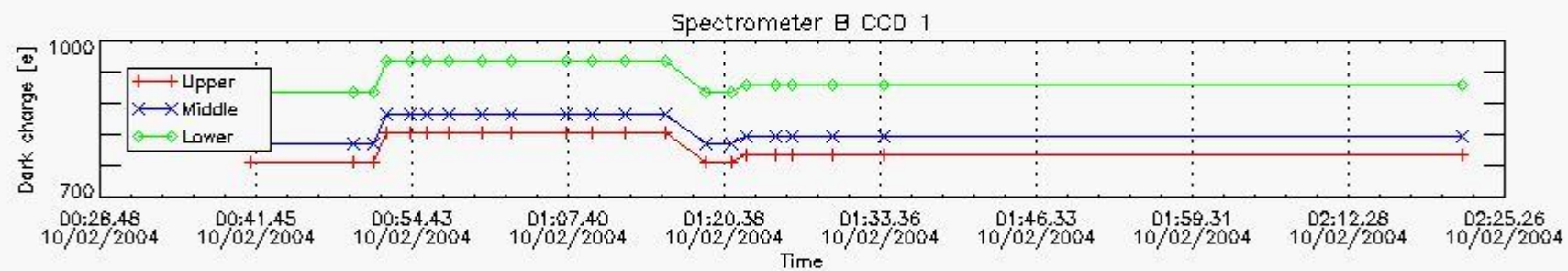
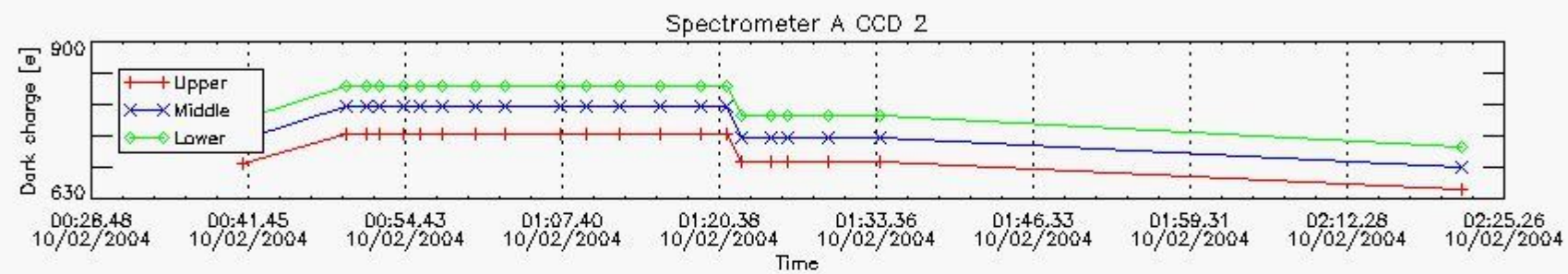
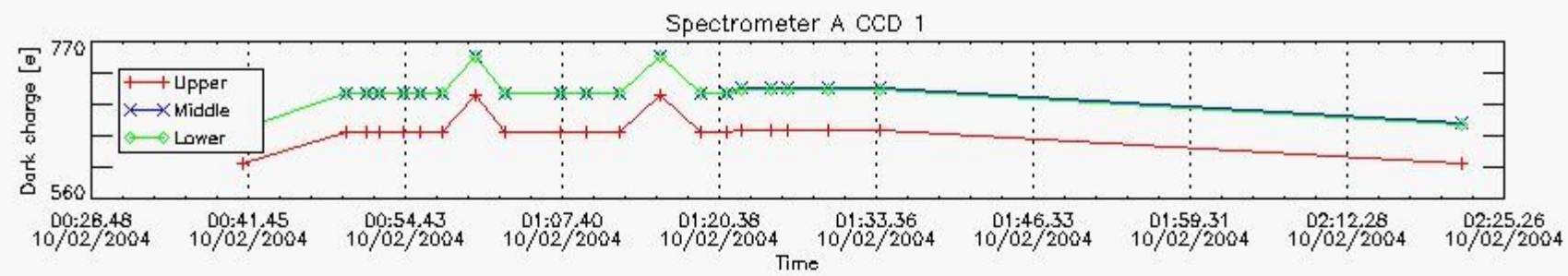
4. Overview of dark signal processing per product

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

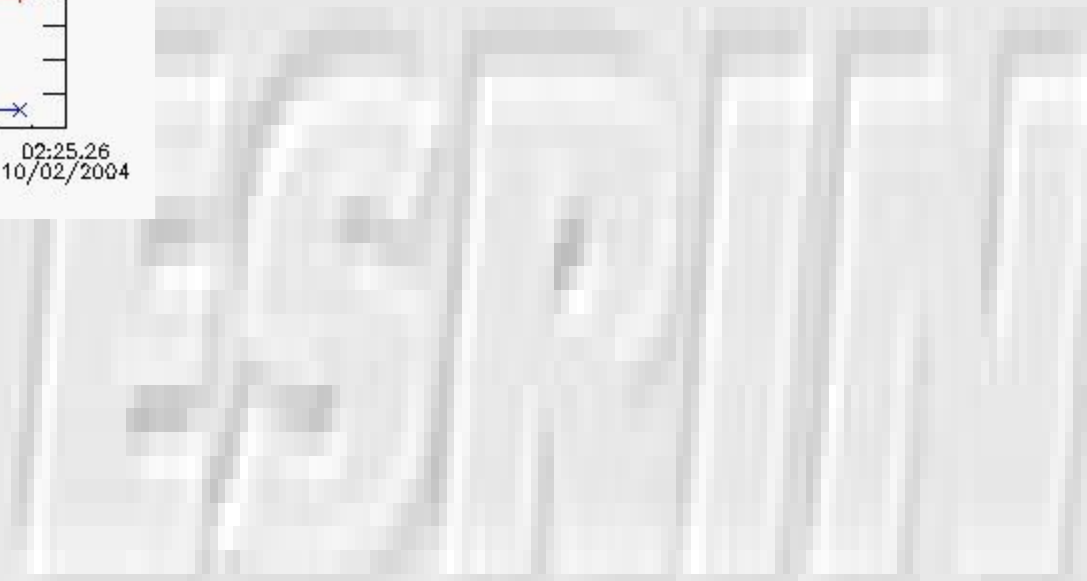
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



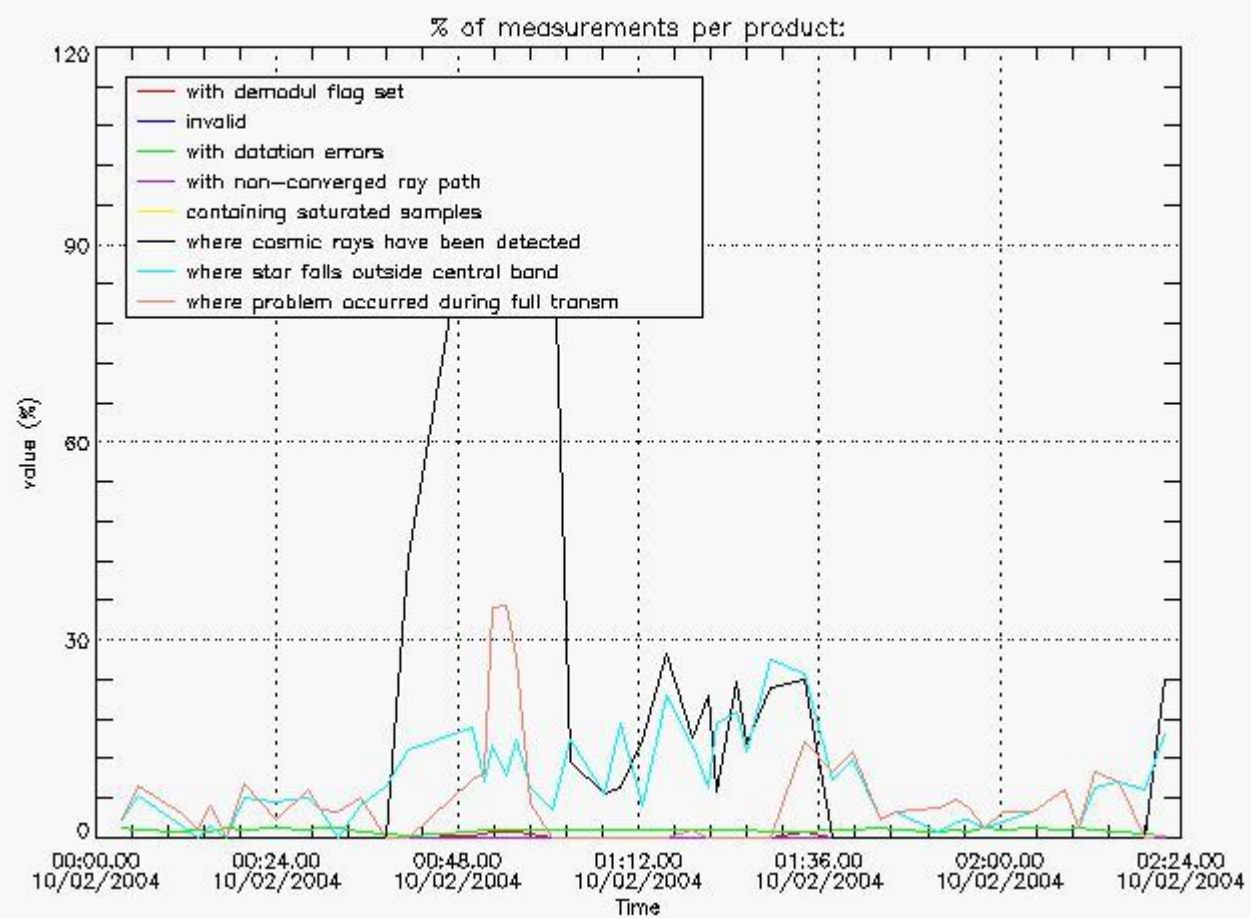
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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



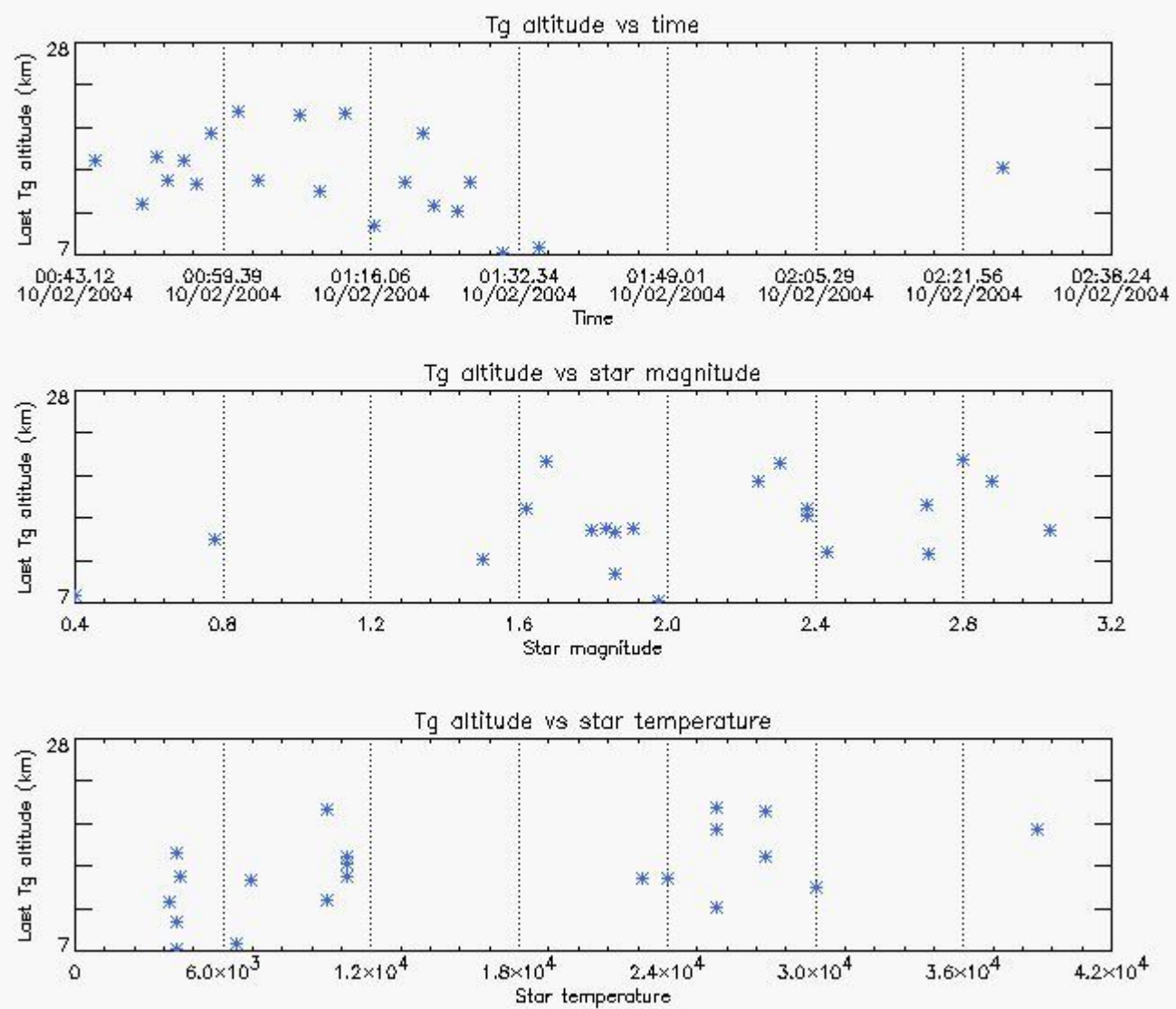
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.778	21.502
St. deviation:	4.0493	3.1918
Maximum:	21.255	27.588
Minimum:	7.1586	15.016
Number of data:	21.000	28.000

6.2 Plot for DARK limb products

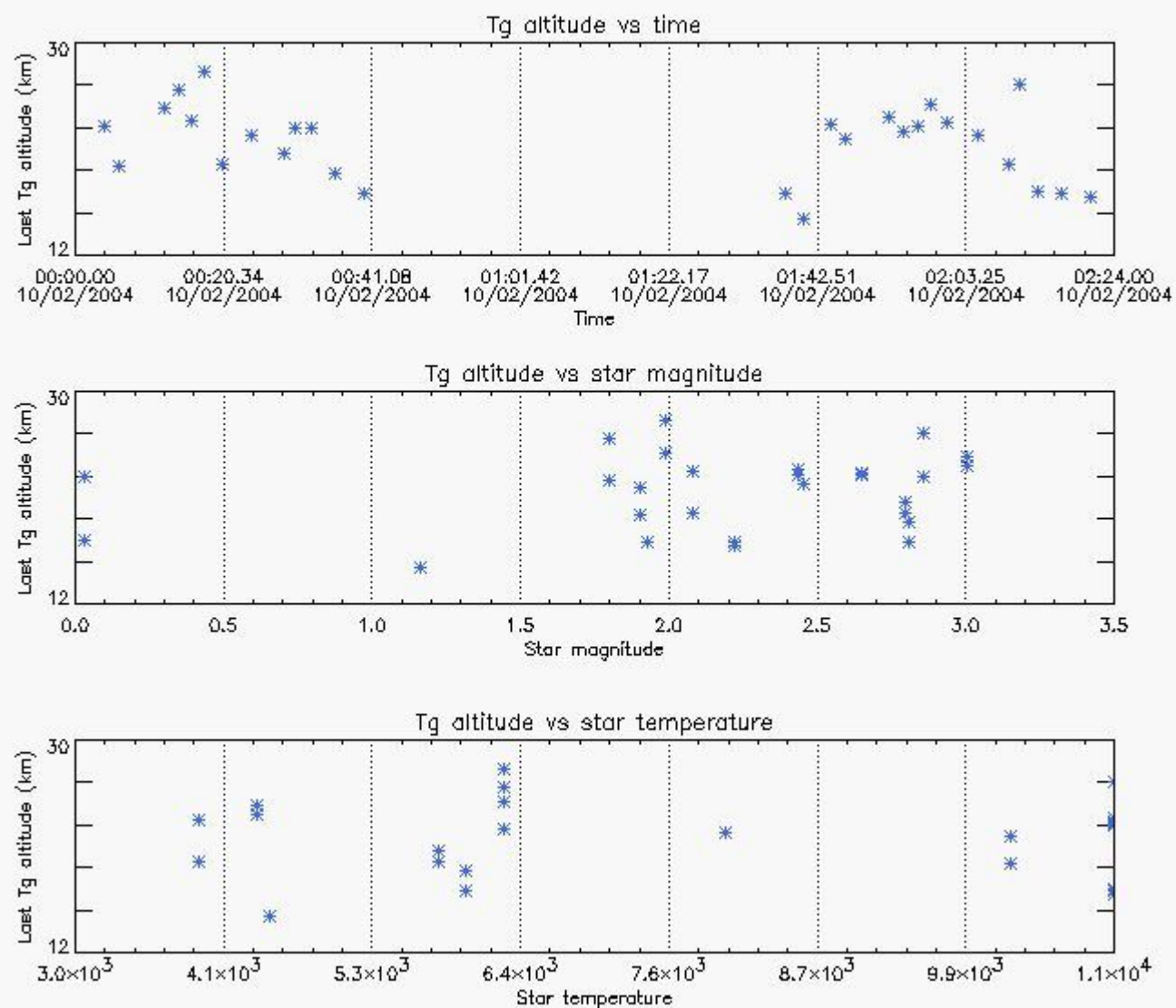
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



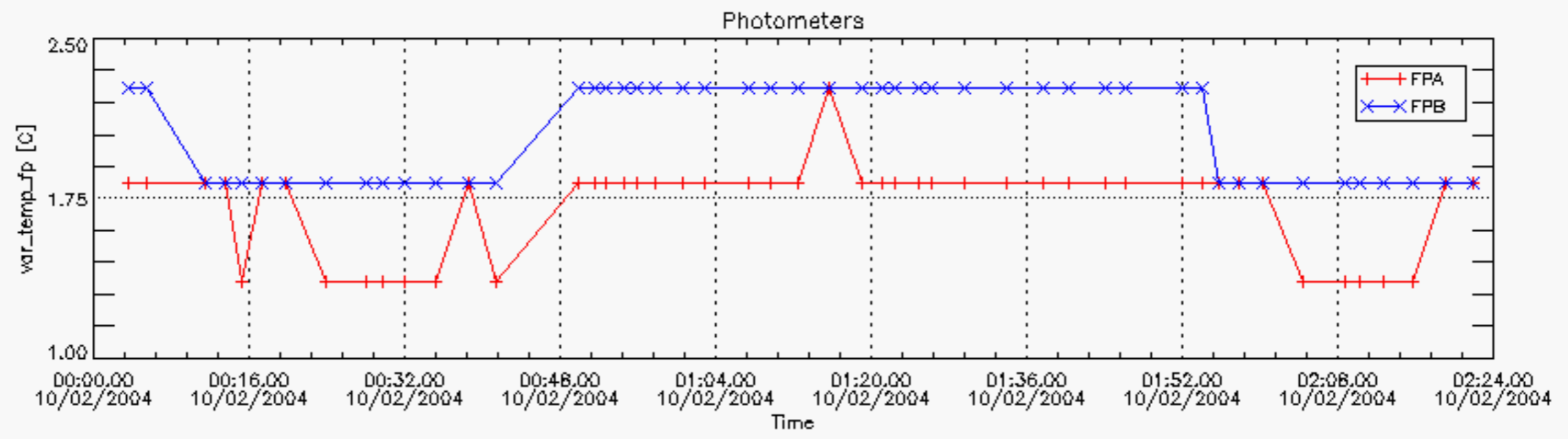
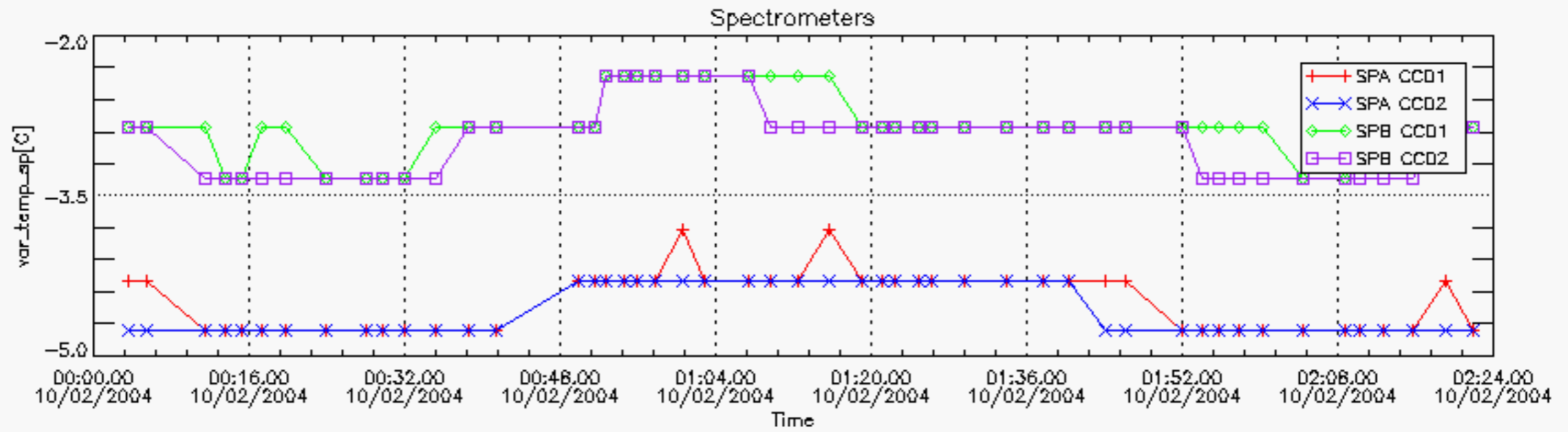
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

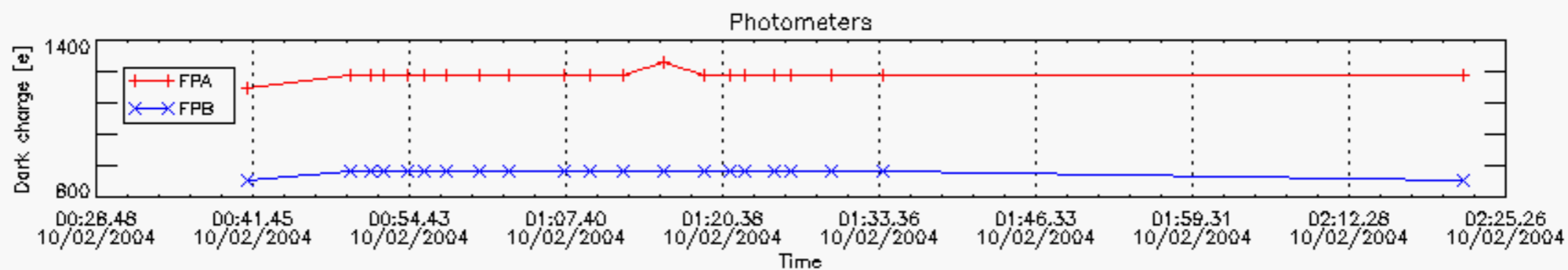
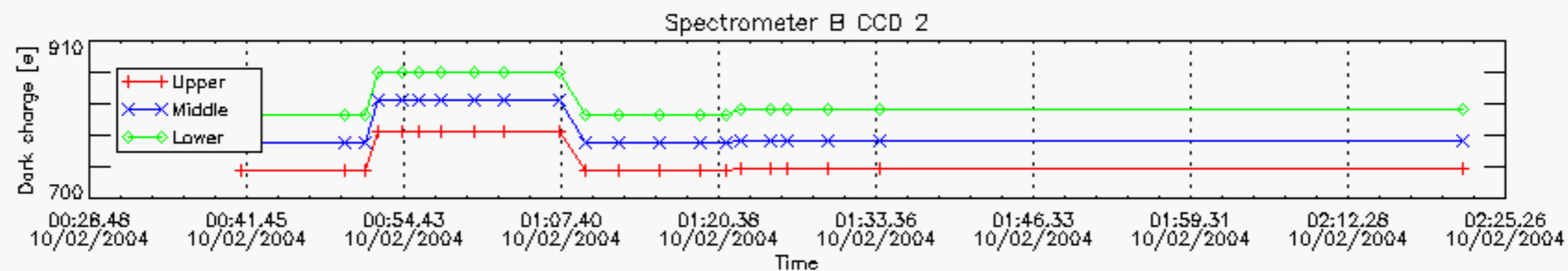
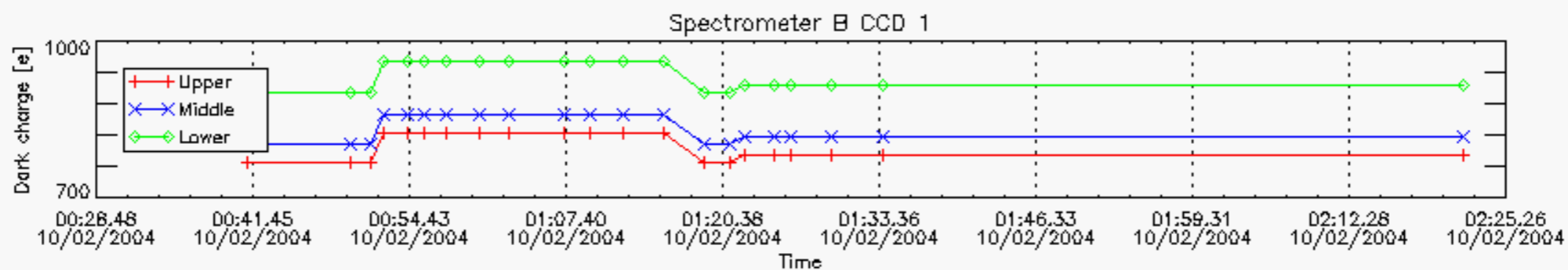
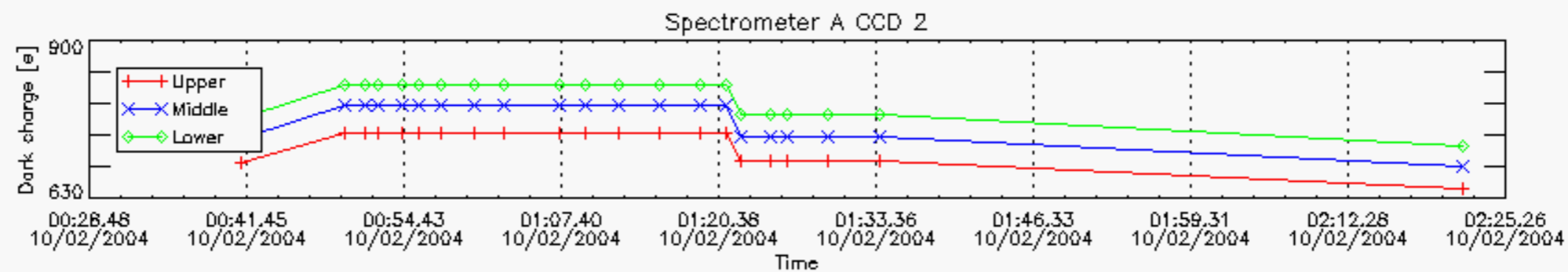
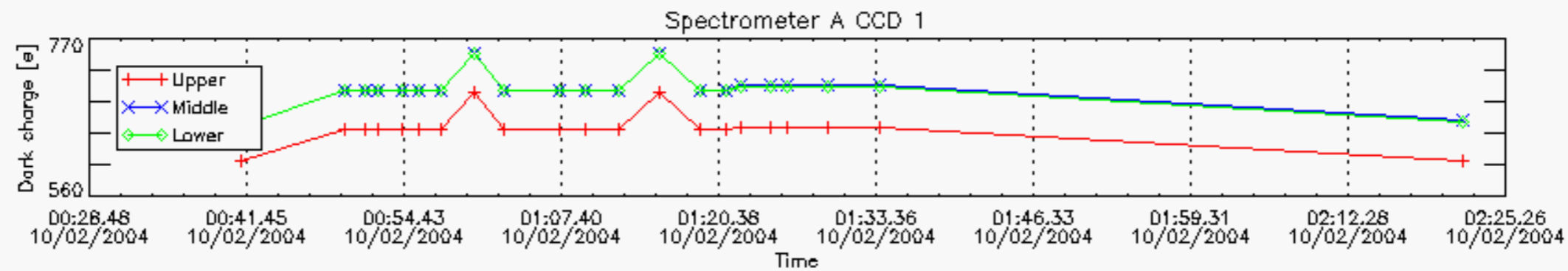
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

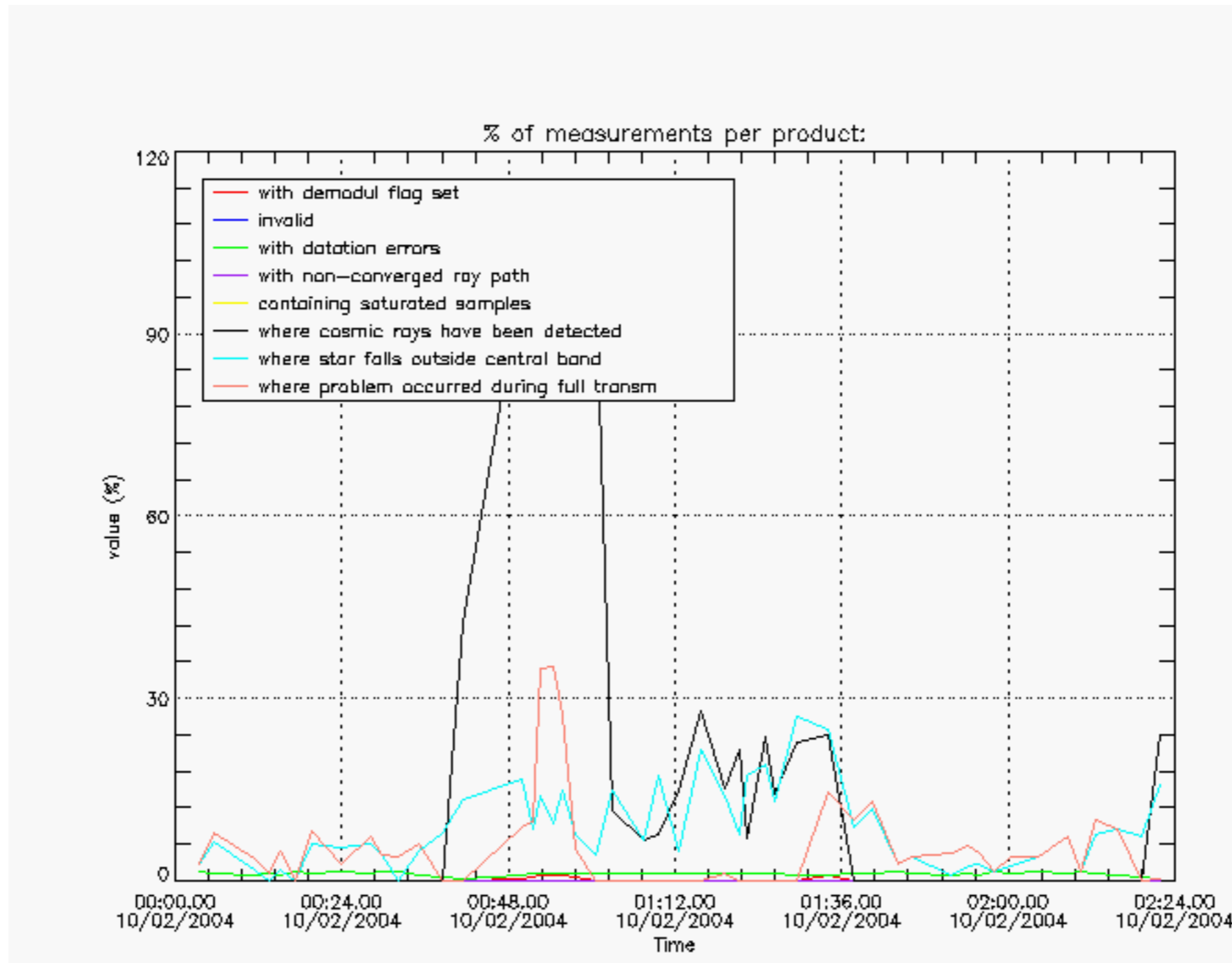
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.8	1447.4	1460.9	1448.0
St. deviation:	5.3142	7.8587	7.3613	9.4912
Maximum:	1619.0	1497.0	1521.0	1516.0
Minimum:	1448.0	1437.0	1436.0	1419.0
Number of data:	30350.	30350.	33850.	33850.



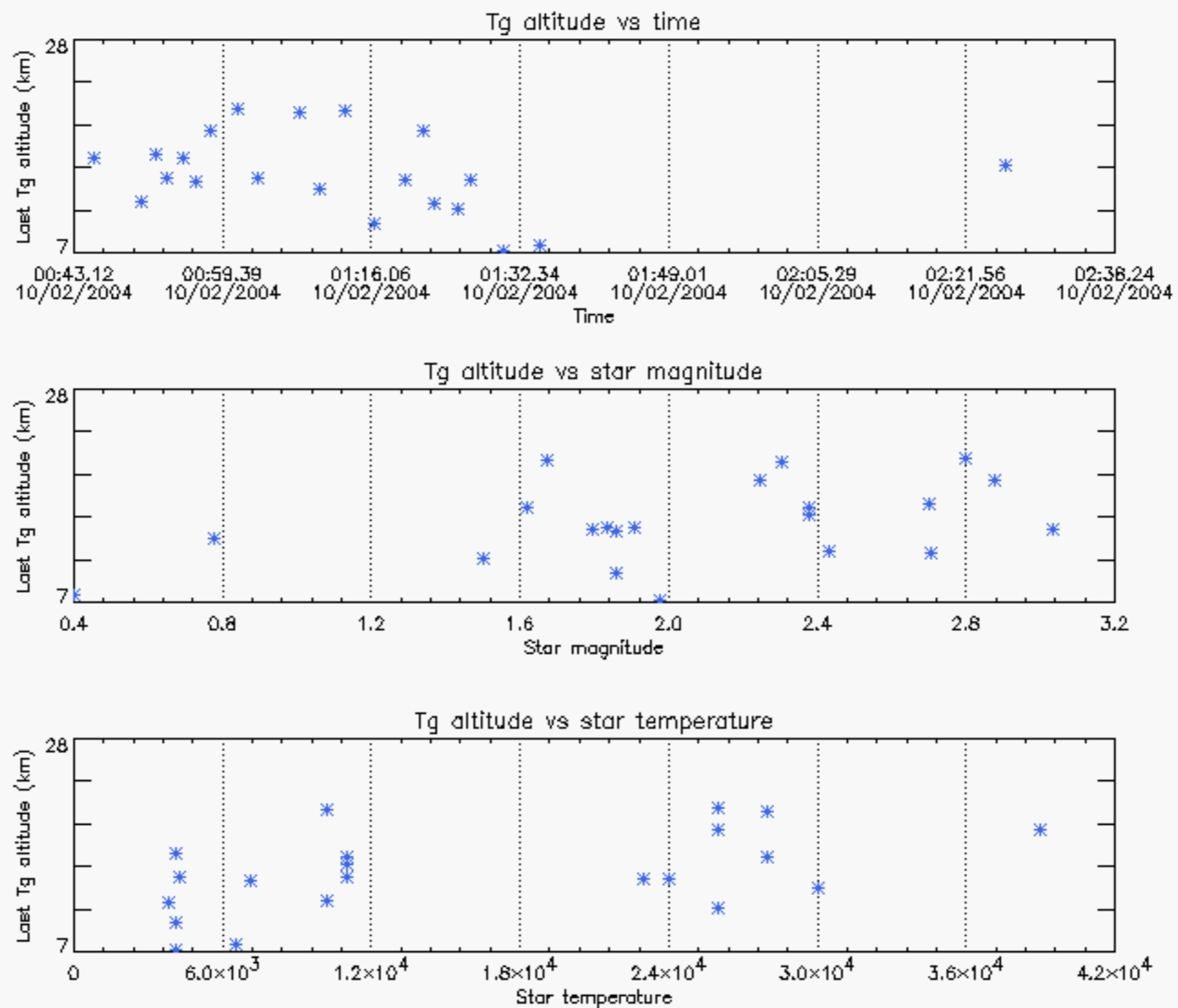




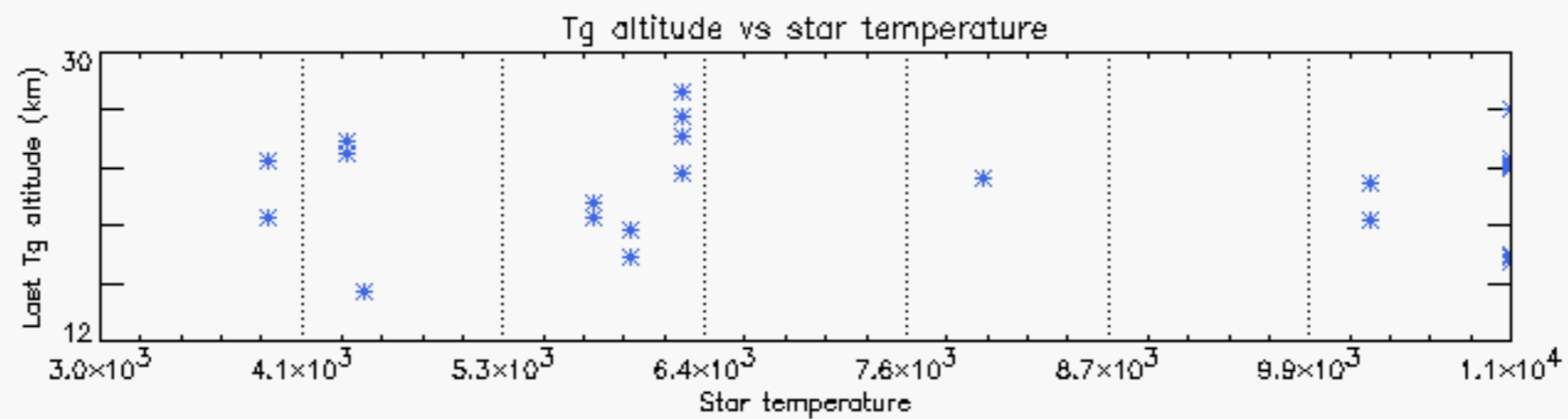
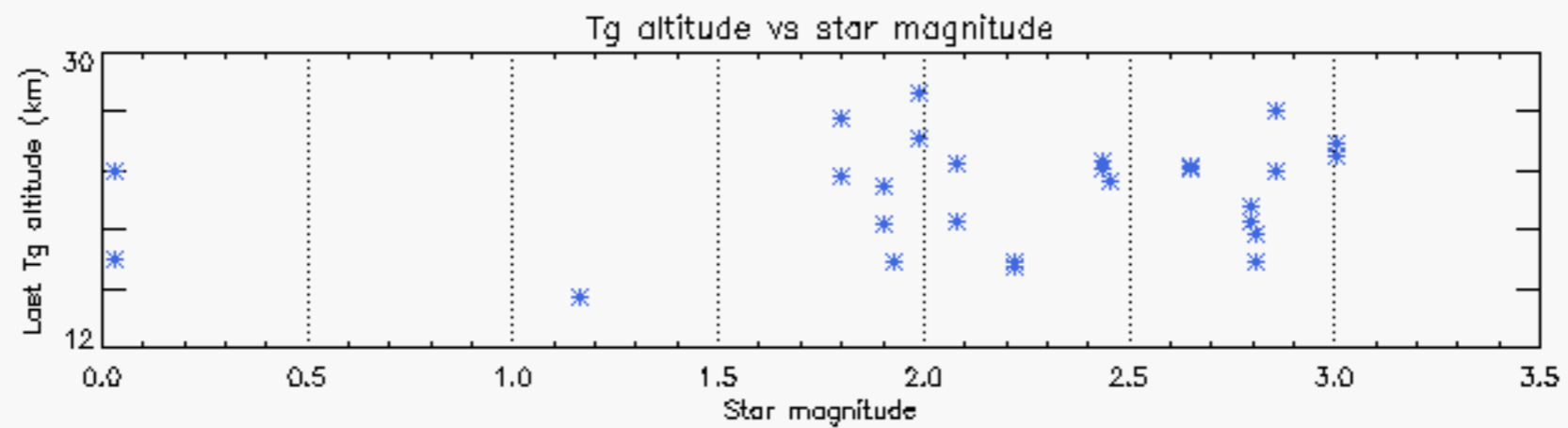
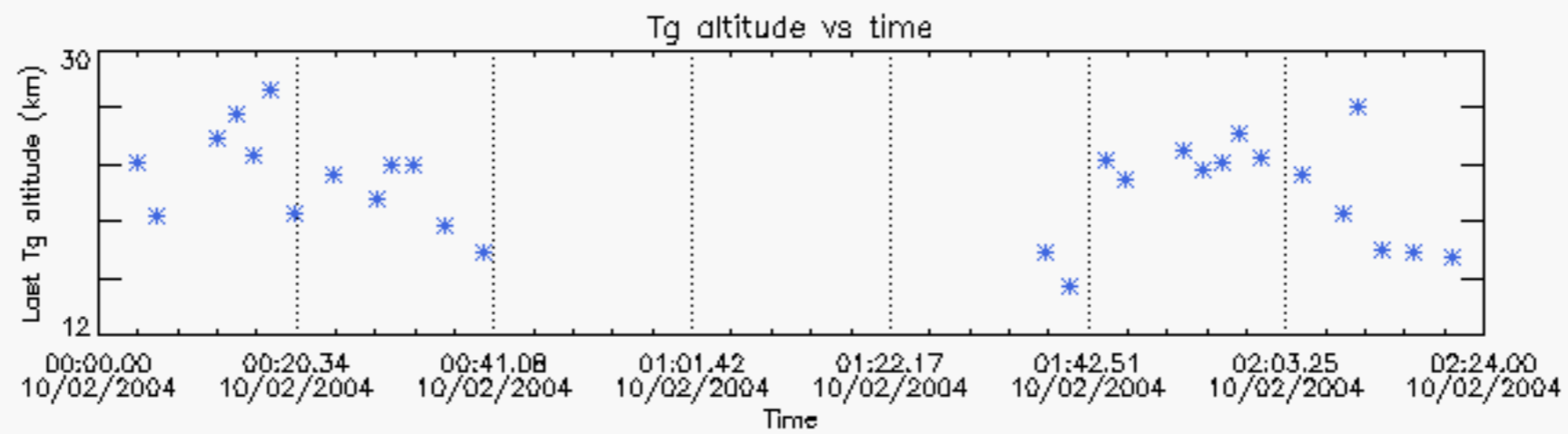




Tangent altitude at which the star is lost



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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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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8;	-3338.7;	03-FEB-2004	13:49:58;	Bright;	;	37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	10084
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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
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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
20;	-612.9;	17-FEB-2004	15:35:45;	Dark	; 42.5;	57;	34Sig Sgr	; 2.07;	26000;occ;	85;	0;10285
21;	-444.4;	17-FEB-2004	15:38:33;	Dark	; 43.5;	38;	20Eps Sgr	; 1.84;	11000;occ;	87;	0;10285
22;	-254.4;	17-FEB-2004	15:41:43;	Dark	; 56.0;	16;	21Alp Sco	; 1.02;	3000;occ;	112;	0;10285
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
25;	491.7;	17-FEB-2004	15:54:09;	Dark	; 45.5;	77;	Eps Cen	; 2.30;	28000;occ;	91;	0;10286
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
30;	1123.8;	17-FEB-2004	16:04:42;	Dark	; 39.5;	34;	Gam2Vel	; 1.79;	23000;occ;	79;	0;10286
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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2;	-4296.4;	17-FEB-2004	16:14:57;	Dark	; 49.0;	48;	30Alp Hya	; 1.98;	4100;occ;	98;	0;10286
3;	-4022.0;	17-FEB-2004	16:19:32;	Bright;	52.0;	8;	10Alp CMi	; 0.40;	6500;occ;	104;	0;10286
4;	-3861.7;	17-FEB-2004	16:22:12;	Bright;	52.0;	22;	32Alp Leo	; 1.36;	15200;occ;	104;	0;10286
5;	-3646.7;	17-FEB-2004	16:25:47;	Bright;	39.0;	17;	78Bet Gem	; 1.16;	4500;occ;	78;	0;10286
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
11;	-2606.3;	17-FEB-2004	16:43:07;	Bright;	35.0;	49;	1Alp UMi	; 1.99;	6300;occ;	70;	0;10286
12;	-2488.5;	17-FEB-2004	16:45:05;	Bright;	43.5;	60;	7Bet UMi	; 2.08;	3950;occ;	87;	0;10286
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
20;	-1013.7;	17-FEB-2004	17:09:40;	Dark	; 52.0;	126;	60Bet Oph	; 2.77;	4250;occ;	104;	0;10286
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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1;	114.0;	18-FEB-2004	15:16:15;	Dark	; 58.5;	0;		; 0.00;	0;occ;	117;	0;10300
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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2;	-4296.0;	18-FEB-2004	15:43:21;	Dark ;	47.0;	48;	30Alp Hya ;	1.98;	4100;occ;	94;	0;10300
3;	-4021.7;	18-FEB-2004	15:47:55;	Bright;	43.5;	8;	10Alp CMi ;	0.40;	6500;occ;	87;	0;10300
4;	-3868.2;	18-FEB-2004	15:50:28;	Bright;	51.5;	22;	32Alp Leo ;	1.36;	15200;occ;	103;	0;10300
5;	-3645.4;	18-FEB-2004	15:54:11;	Bright;	39.0;	17;	78Bet Gem ;	1.16;	4500;occ;	78;	0;10300
6;	-3577.1;	18-FEB-2004	15:55:20;	Bright;	40.0;	24;	66Alp Gem ;	1.58;	10200;occ;	80;	0;10300
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
9;	-2966.7;	18-FEB-2004	16:05:30;	Bright;	46.0;	82;	48Bet UMa ;	2.37;	10600;occ;	92;	0;10300
10;	-2847.5;	18-FEB-2004	16:07:29;	Bright;	50.5;	87;	64Gam UMa ;	2.43;	11000;occ;	101;	0;10300
11;	-2607.3;	18-FEB-2004	16:11:29;	Bright;	39.0;	49;	1Alp UMi ;	1.99;	6300;occ;	78;	0;10300
12;	-2493.7;	18-FEB-2004	16:13:23;	Bright;	43.0;	60;	7Bet UMi ;	2.08;	3950;occ;	86;	0;10300
13;	-2370.0;	18-FEB-2004	16:15:27;	Bright;	68.5;	39;	85Eta UMa ;	1.85;	24000;occ;	137;	0;10300
14;	-2202.2;	18-FEB-2004	16:18:14;	Bright;	42.5;	119;	14Eta Dra ;	2.73;	4700;occ;	85;	0;10300
15;	-1943.5;	18-FEB-2004	16:22:33;	Bright;	42.5;	69;	33Gam Dra ;	2.23;	3800;occ;	85;	0;10300
16;	-1840.4;	18-FEB-2004	16:24:16;	Bright;	36.0;	144;	18Del Cyg ;	2.86;	11000;occ;	72;	0;10300
17;	-1706.2;	18-FEB-2004	16:26:30;	Bright;	41.0;	5;	3Alp Lyr ;	0.03;	11000;occ;	82;	0;10300
18;	-1512.6;	18-FEB-2004	16:29:44;	Bright;	60.0;	133;	40Zet Her ;	2.81;	6000;occ;	120;	0;10300
19;	-1213.6;	18-FEB-2004	16:34:43;	Dark ;	83.5;	127;	27Bet Her ;	2.78;	4700;occ;	167;	0;10300
20;	-1005.6;	18-FEB-2004	16:38:11;	Dark ;	56.0;	126;	60Bet Oph ;	2.77;	4250;occ;	112;	0;10300
21;	-709.4;	18-FEB-2004	16:43:07;	Dark ;	40.0;	155;	41Pi Sgr ;	2.90;	6600;occ;	80;	0;10300
22;	-608.4;	18-FEB-2004	16:44:48;	Dark ;	42.0;	57;	34Sig Sgr ;	2.07;	26000;occ;	84;	0;10300
23;	-438.4;	18-FEB-2004	16:47:38;	Dark ;	44.0;	38;	20Eps Sgr ;	1.84;	11000;occ;	88;	0;10300
24;	-237.4;	18-FEB-2004	16:50:59;	Dark ;	62.5;	16;	21Alp Sco ;	1.02;	3000;occ;	125;	0;10300
25;	-124.8;	18-FEB-2004	16:52:52;	Dark ;	39.5;	147;	Alp Ara ;	2.88;	26000;occ;	79;	0;10300
26;	114.2;	18-FEB-2004	16:56:51;	Dark ;	58.5;	0;	; 0.00;	0;occ;	117;	0;10301	
27;	197.1;	18-FEB-2004	16:58:14;	Dark ;	41.0;	134;	Bet TrA ;	2.81;	6600;occ;	82;	0;10301
28;	337.1;	18-FEB-2004	17:00:34;	Dark ;	45.0;	4;	Alp1Cen ;	-0.01;	5800;occ;	90;	0;10301
29;	416.3;	18-FEB-2004	17:01:53;	Dark ;	47.5;	10;	Bet Cen ;	0.61;	28000;occ;	95;	0;10301
30;	503.4;	18-FEB-2004	17:03:20;	Dark ;	47.0;	77;	Eps Cen ;	2.30;	28000;occ;	94;	0;10301
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
34;	984.9;	18-FEB-2004	17:11:22;	Dark ;	39.5;	46;	Del Vel ;	1.95;	10600;occ;	79;	0;10301
35;	1126.4;	18-FEB-2004	17:13:43;	Dark ;	43.0;	34;	Gam2Vel ;	1.79;	23000;occ;	86;	0;10301
36;	1251.2;	18-FEB-2004	17:15:48;	Dark ;	15.0;	70;	Zet Pup ;	2.25;	39000;occ;	30;	0;10301
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3;	-4526.3;	18-FEB-2004	19:00:42;	Dark ;	39.5;	132;	15Rho Pup ;	2.80;	6900;occ;	79;	0;10302
4;	-4295.3;	18-FEB-2004	19:04:33;	Dark ;	48.5;	48;	30Alp Hya ;	1.98;	4100;occ;	97;	0;10302
5;	-4018.2;	18-FEB-2004	19:09:10;	Bright;	39.5;	8;	10Alp CMi ;	0.40;	6500;occ;	79;	0;10302
6;	-3868.3;	18-FEB-2004	19:11:40;	Bright;	50.5;	22;	32Alp Leo ;	1.36;	15200;occ;	101;	0;10302
7;	-3644.5;	18-FEB-2004	19:15:24;	Bright;	40.0;	17;	78Bet Gem ;	1.16;	4500;occ;	80;	0;10302
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
10;	-3094.2;	18-FEB-2004	19:24:34;	Bright;	52.5;	174;	52Psi UMa ;	3.00;	4400;occ;	105;	0;10302
11;	-2967.6;	18-FEB-2004	19:26:41;	Bright;	45.0;	82;	48Bet UMa ;	2.37;	10600;occ;	90;	0;10302
12;	-2848.7;	18-FEB-2004	19:28:40;	Bright;	51.5;	87;	64Gam UMa ;	2.43;	11000;occ;	103;	0;10302
13;	-2605.9;	18-FEB-2004	19:32:43;	Bright;	37.5;	49;	1Alp UMi ;	1.99;	6300;occ;	75;	0;10302
14;	-2493.5;	18-FEB-2004	19:34:35;	Bright;	41.5;	60;	7Bet UMi ;	2.08;	3950;occ;	83;	0;10302
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
20;	-1515.5;	18-FEB-2004	19:50:53;	Bright;	62.5;	133;	40Zet Her ;	2.81;	6000;occ;	125;	0;10302
21;	-1212.4;	18-FEB-2004	19:55:56;	Dark ;	80.0;	127;	27Bet Her ;	2.78;	4700;occ;	160;	0;10302
22;	-1004.2;	18-FEB-2004	19:59:24;	Dark ;	54.0;	126;	60Bet Oph ;	2.77;	4250;occ;	108;	0;10302
23;	-708.7;	18-FEB-2004	20:04:20;	Dark ;	40.0;	155;	41Pi Sgr ;	2.90;	6600;occ;	80;	0;10302
24;	-607.5;	18-FEB-2004	20:06:01;	Dark ;	39.5;	57;	34Sig Sgr ;	2.07;	26000;occ;	79;	0;10302
25;	-437.4;	18-FEB-2004	20:08:51;	Dark ;	41.0;	38;	20Eps Sgr ;	1.84;	11000;occ;	82;	0;10302
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
30;	338.3;	18-FEB-2004	20:21:47;	Dark ;	42.5;	4;	Alp1Cen ;	-0.01;	5800;occ;	85;	0;10303
31;	417.6;	18-FEB-2004	20:23:06;	Dark ;	43.0;	10;	Bet Cen ;	0.61;	28000;occ;	86;	0;10303

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35; 889.8; 18-FEB-2004 20:30:58; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;10303
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