

GOMOS Daily Report 12-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	16FEB2004 14:12:49
Data source version	<Any version>
Start time of products	12-FEB-2004 (12FEB2004 00:00:00)
Stop time of products	13-FEB-2004 (13FEB2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	1

2. Summary of products arrived in PCF

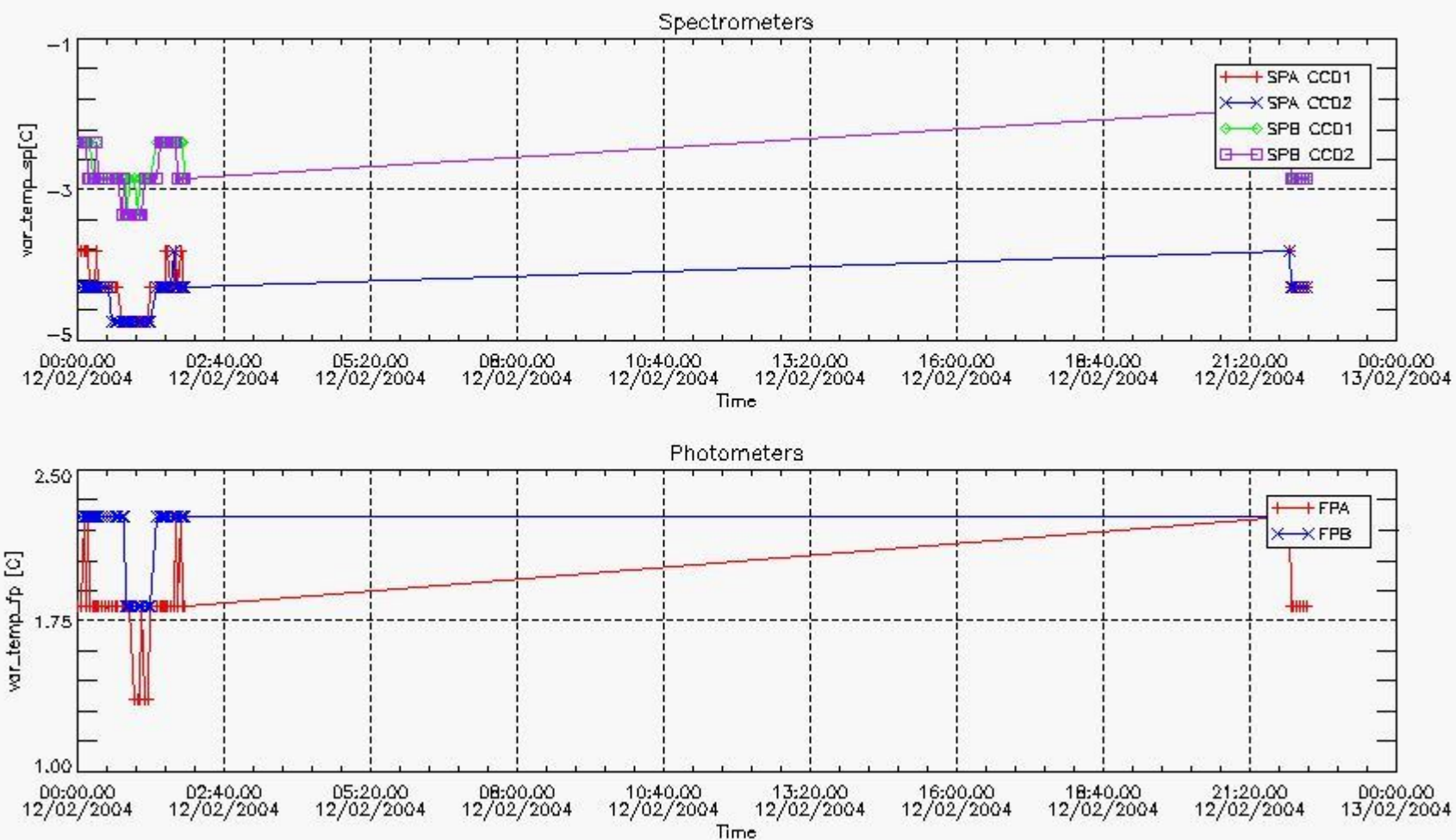
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040212_000011_000000482024_00131_10205_0028.N1	12-FEB-2004 00:00:11	Dark	48.000	109	Bet Lup	2.6770	26000.	96	10205	No
GOM_TRA_1PNPDE20040212_000405_000000702024_00131_10205_0029.N1	12-FEB-2004 00:04:05	Dark	69.500	54	5The Cen	2.0550	4500.0	139	10205	No
GOM_TRA_1PNPDE20040212_000635_000000442024_00131_10205_0030.N1	12-FEB-2004 00:06:35	Dark	43.500	12	Alp1Cru	0.77500	30000.	87	10205	No
GOM_TRA_1PNPDE20040212_000920_000000392024_00131_10205_0031.N1	12-FEB-2004 00:09:20	Dark	38.500	29	Bet Car	1.6720	10200.	77	10205	No
GOM_TRA_1PNPDE20040212_001154_000000432024_00131_10205_0032.N1	12-FEB-2004 00:11:54	Dark	43.000	71	lot Car	2.2460	7700.0	86	10205	No
GOM_TRA_1PNPDE20040212_001331_000000432024_00131_10205_0033.N1	12-FEB-2004 00:13:31	Dark	43.000	46	Del Vel	1.9540	10600.	86	10205	No
GOM_TRA_1PNPDE20040212_001613_000000462024_00131_10205_0034.N1	12-FEB-2004 00:16:13	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	10205	No
GOM_TRA_1PNPDE20040212_001802_000000412024_00131_10205_0035.N1	12-FEB-2004 00:18:02	Dark	40.500	70	Zet Pup	2.2460	39000.	81	10205	No
GOM_TRA_1PNPDE20040212_001918_000000482024_00131_10205_0036.N1	12-FEB-2004 00:19:18	Dark	47.500	117	Pi Pup	2.7060	3800.0	95	10205	No
GOM_TRA_1PNPDE20040212_002125_000000432024_00131_10205_0000.N1	12-FEB-2004 00:21:25	Dark	42.500	88	31Eta CMa	2.4480	20000.	85	10205	No
GOM_TRA_1PNPDE20040212_002309_000000412024_00131_10205_0001.N1	12-FEB-2004 00:23:09	Dark	40.500	179	24Omi2CMa	3.0320	24000.	81	10205	No
GOM_TRA_1PNPDE20040212_002623_000000602024_00131_10205_0002.N1	12-FEB-2004 00:26:23	Dark	60.000	48	30Alp Hya	1.9770	4100.0	120	10205	No
GOM_TRA_1PNPDE20040212_003049_000000522024_00131_10205_0003.N1	12-FEB-2004 00:30:49	Dark	52.000	8	10Alp CMi	0.40000	6500.0	104	10205	No
GOM_TRA_1PNPDE20040212_003440_000000392024_00131_10205_0004.N1	12-FEB-2004 00:34:40	Bright	38.500	44	24Gam Gem	1.9280	11000.	77	10205	No
GOM_TRA_1PNPDE20040212_003711_000000412024_00131_10205_0005.N1	12-FEB-2004 00:37:11	Bright	41.000	17	78Bet Gem	1.1610	4500.0	82	10205	No
GOM_TRA_1PNPDE20040212_004102_000000392024_00131_10205_0006.N1	12-FEB-2004 00:41:02	Bright	38.500	107	37The Aur	2.6490	11000.	77	10205	No
GOM_TRA_1PNPDE20040212_004300_000000402024_00131_10205_0007.N1	12-FEB-2004 00:43:00	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	10205	No
GOM_TRA_1PNPDE20040212_004812_000000572024_00131_10205_0008.N1	12-FEB-2004 00:48:12	Bright	56.500	174	52Psi UMa	3.0040	4400.0	113	10205	No
GOM_TRA_1PNPDE20040212_005036_000000412024_00131_10205_0009.N1	12-FEB-2004 00:50:36	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	10205	No
GOM_TRA_1PNPDE20040212_005207_000000532024_00131_10205_0010.N1	12-FEB-2004 00:52:07	Bright	53.000	87	64Gam UMa	2.4330	11000.	106	10205	No
GOM_TRA_1PNPDE20040212_005436_000000382024_00131_10205_0011.N1	12-FEB-2004 00:54:36	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	10205	No
GOM_TRA_1PNPDE20040212_005700_000000422024_00131_10205_0012.N1	12-FEB-2004 00:57:00	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	10205	No
GOM_TRA_1PNPDE20040212_010121_000000382024_00131_10205_0013.N1	12-FEB-2004 01:01:21	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	10205	No
GOM_TRA_1PNPDE20040212_010526_000000412024_00131_10205_0014.N1	12-FEB-2004 01:05:26	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	10205	No
GOM_TRA_1PNPDE20040212_010710_000000372024_00131_10205_0015.N1	12-FEB-2004 01:07:10	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	10205	No
GOM_TRA_1PNPDE20040212_010929_000000372024_00131_10205_0016.N1	12-FEB-2004 01:09:29	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	10205	No
GOM_TRA_1PNPDE20040212_011236_000000532024_00131_10205_0017.N1	12-FEB-2004 01:12:36	Bright	53.000	133	40Zet Her	2.8070	6000.0	106	10205	No
GOM_TRA_1PNPDE20040212_011614_000000892024_00131_10205_0018.N1	12-FEB-2004 01:16:14	Dark	89.000	67	5Alp CrB	2.2210	11000.	178	10205	No
GOM_TRA_1PNPDE20040212_011956_000002552024_00131_10205_0019.N1	12-FEB-2004 01:19:56	Dark	255.00	83		2.3780	11000.	510	10205	No
GOM_TRA_1PNPDE20040212_012729_000000442024_00131_10205_0020.N1	12-FEB-2004 01:27:29	Dark	44.000	57	34Sig Sgr	2.0660	26000.	88	10205	No
GOM_TRA_1PNPDE20040212_013010_000000412024_00131_10205_0021.N1	12-FEB-2004 01:30:10	Dark	40.500	38	20Eps Sgr	1.8360	11000.	81	10205	No
GOM_TRA_1PNPDE20040212_013207_000000462024_00131_10205_0022.N1	12-FEB-2004 01:32:07	Dark	45.500	25	35Lam Sco	1.6200	28000.	91	10205	No
GOM_TRA_1PNPDE20040212_013327_000000462024_00131_10205_0023.N1	12-FEB-2004 01:33:27	Dark	45.500	40	The Sco	1.8590	7100.0	91	10205	No
GOM_TRA_1PNPDE20040212_013516_000000412024_00131_10205_0024.N1	12-FEB-2004 01:35:16	Dark	40.500	147	Alp Ara	2.8770	26000.	81	10205	No
GOM_TRA_1PNPDE20040212_013645_000000442024_00131_10205_0025.N1	12-FEB-2004 01:36:45	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	10205	No
GOM_TRA_1PNPDE20040212_013821_000000482024_00132_10206_0026.N1	12-FEB-2004 01:38:21	Dark	48.000	131	Gam Lup	2.8000	26000.	96	10206	No
GOM_TRA_1PNPDE20040212_014048_000000492024_00132_10206_0027.N1	12-FEB-2004 01:40:48	Dark	48.500	109	Bet Lup	2.6770	26000.	97	10206	No
GOM_TRA_1PNPDE20040212_014442_000000622024_00132_10206_0028.N1	12-FEB-2004 01:44:42	Dark	62.000	54	5The Cen	2.0550	4500.0	124	10206	No
GOM_TRA_1PNPDE20040212_014711_000000542024_00132_10206_0029.N1	12-FEB-2004 01:47:11	Dark	54.000	12	Alp1Cru	0.77500	30000.	108	10206	No
GOM_TRA_1PNPDE20040212_014956_000000432024_00132_10206_0030.N1	12-FEB-2004 01:49:56	Dark	42.500	29	Bet Car	1.6720	10200.	85	10206	No
GOM_TRA_1PNPDE20040212_015230_000000422024_00132_10206_0031.N1	12-FEB-2004 01:52:30	Dark	41.500	71	lot Car	2.2460	7700.0	83	10206	No
GOM_TRA_1PNPDE20040212_015407_000000442024_00132_10206_0032.N1	12-FEB-2004 01:54:07	Dark	44.000	46	Del Vel	1.9540	10600.	88	10206	No
GOM_TRA_1PNPDE20040212_015649_000000522024_00132_10206_0033.N1	12-FEB-2004 01:56:49	Dark	51.500	65	Lam Vel	2.2040	4400.0	103	10206	No
GOM_TRA_1PNPDE20040212_220348_000000422024_00144_10218_0000.N1	12-FEB-2004 22:03:48	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	10218	Yes
GOM_TRA_1PNPDE20040212_220552_000000422024_00144_10218_0001.N1	12-FEB-2004 22:05:52	Dark	41.500	70	Zet Pup	2.2460	39000.	83	10218	No
GOM_TRA_1PNPDE20040212_220707_000000432024_00144_10218_0002.N1	12-FEB-2004 22:07:07	Dark	43.000	117	Pi Pup	2.7060	3800.0	86	10218	No
GOM_TRA_1PNPDE20040212_221012_000000442024_00144_10218_0003.N1	12-FEB-2004 22:10:12	Dark	44.000	37	25Del CMa	1.8300	5900.0	88	10218	No
GOM_TRA_1PNPDE20040212_221413_000000512024_00144_10218_0004.N1	12-FEB-2004 22:14:13	Dark	51.000	48	30Alp Hya	1.9770	4100.0	102	10218	No
GOM_TRA_1PNPDE20040212_221839_000000522024_00144_10218_0005.N1	12-FEB-2004 22:18:39	Dark	52.000	8	10Alp CMi	0.40000	6500.0	104	10218	No
GOM_TRA_1PNPDE20040212_222231_000000392024_00144_10218_0006.N1	12-FEB-2004 22:22:31	Bright	39.000	44	24Gam Gem	1.9280	11000.	78	10218	No

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



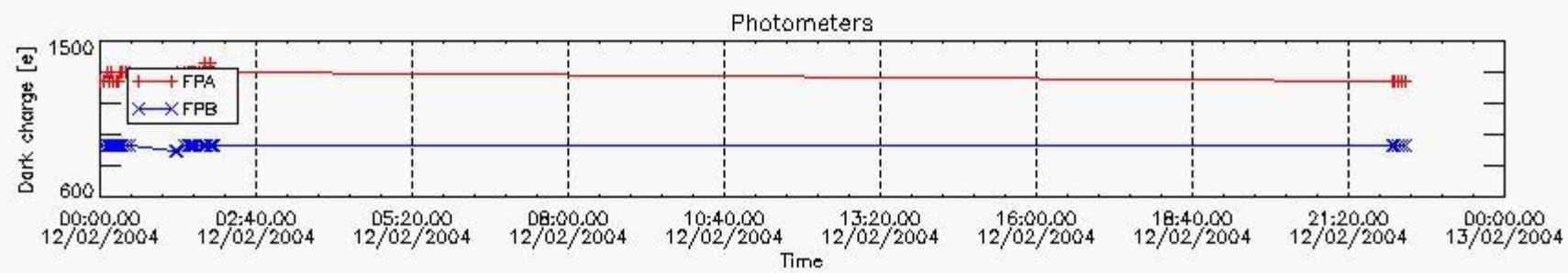
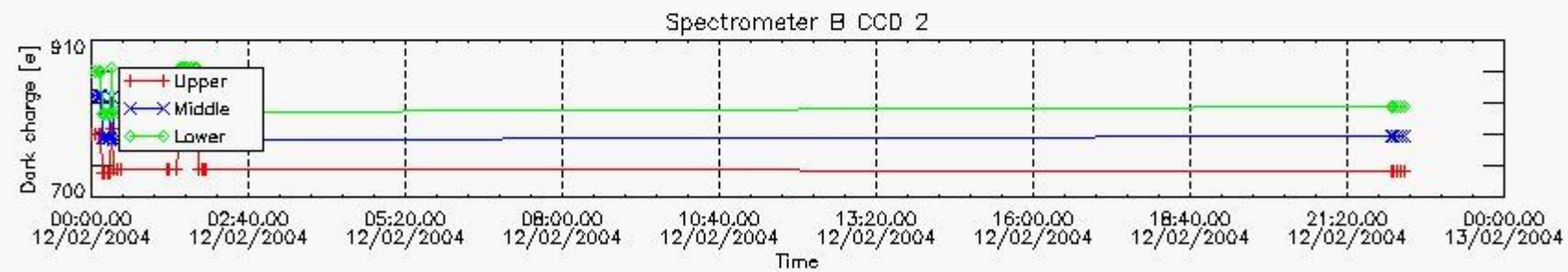
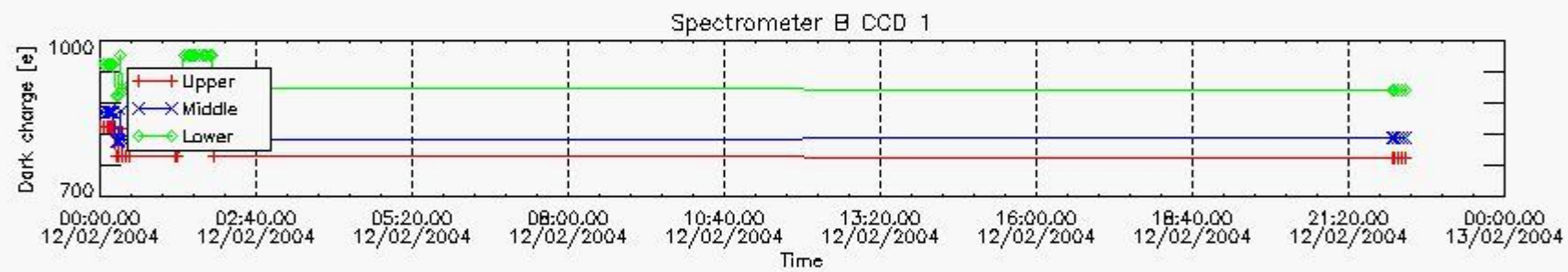
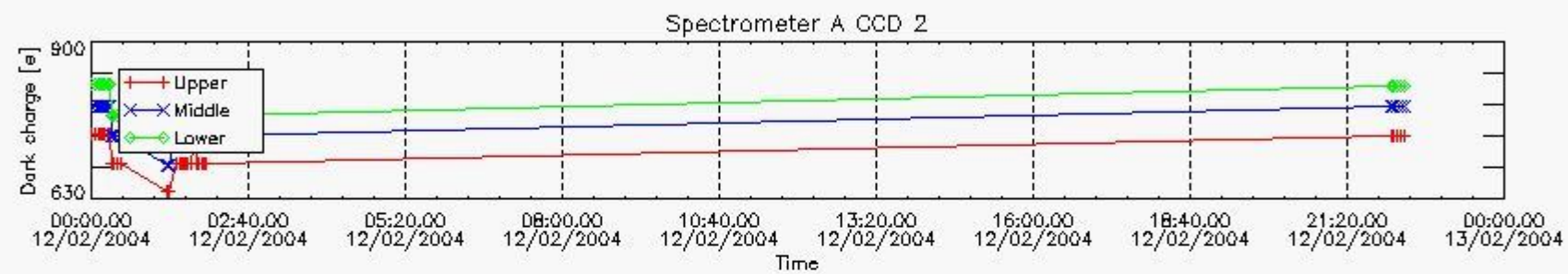
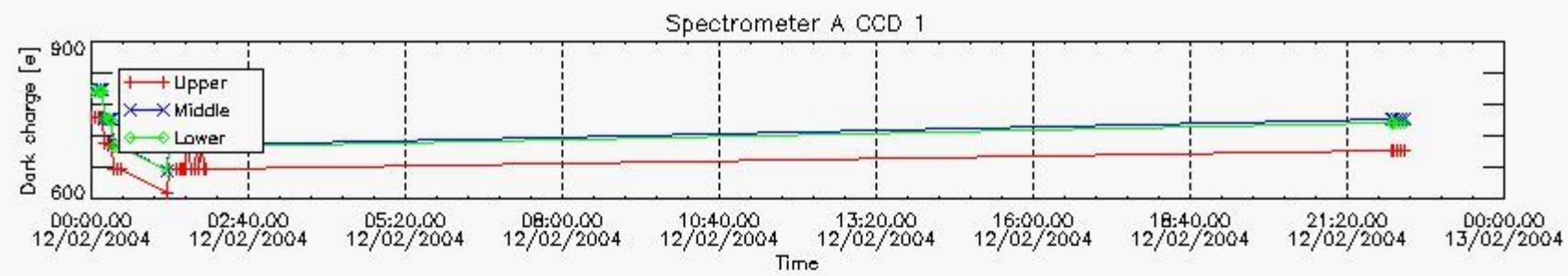
4. Overview of dark signal processing per product

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

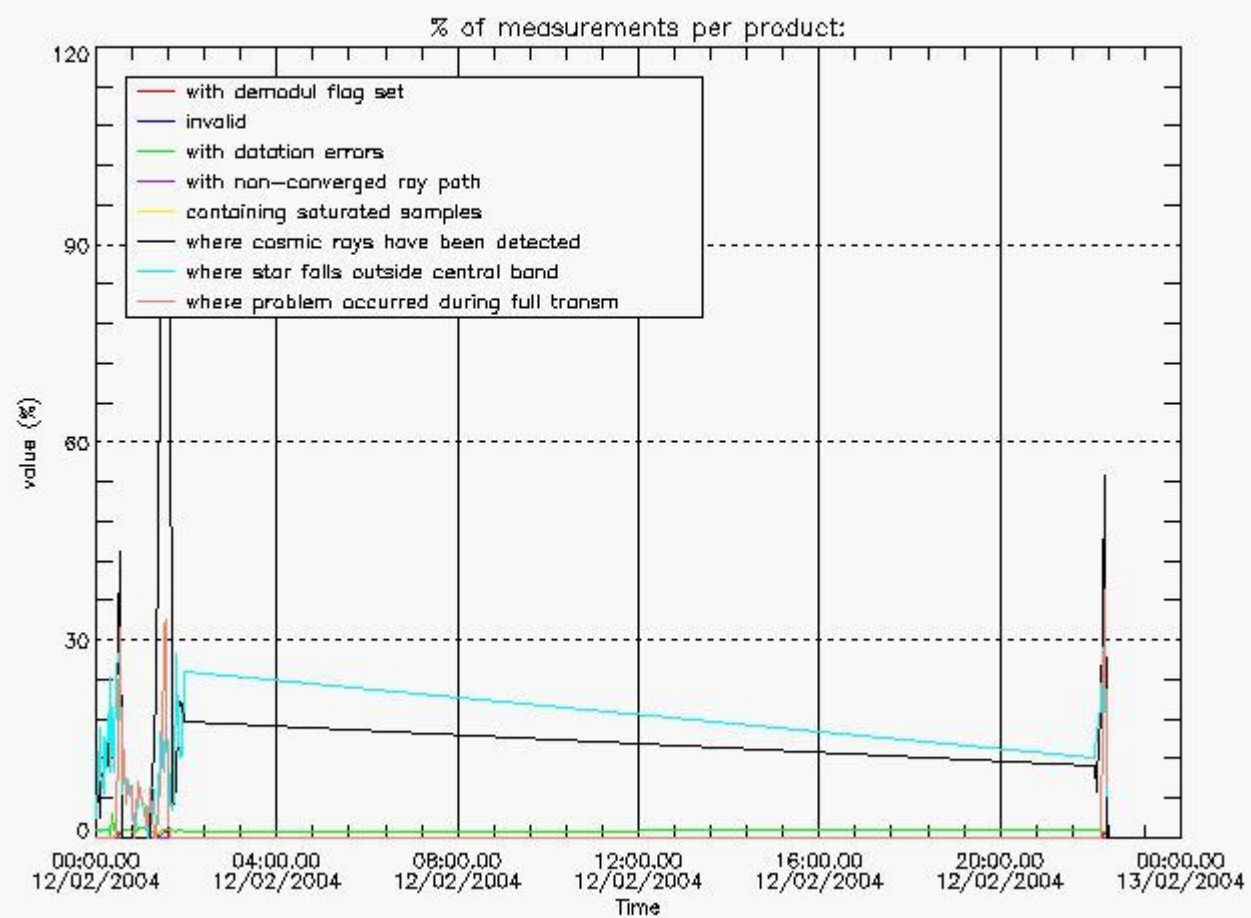


5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.5306 %
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



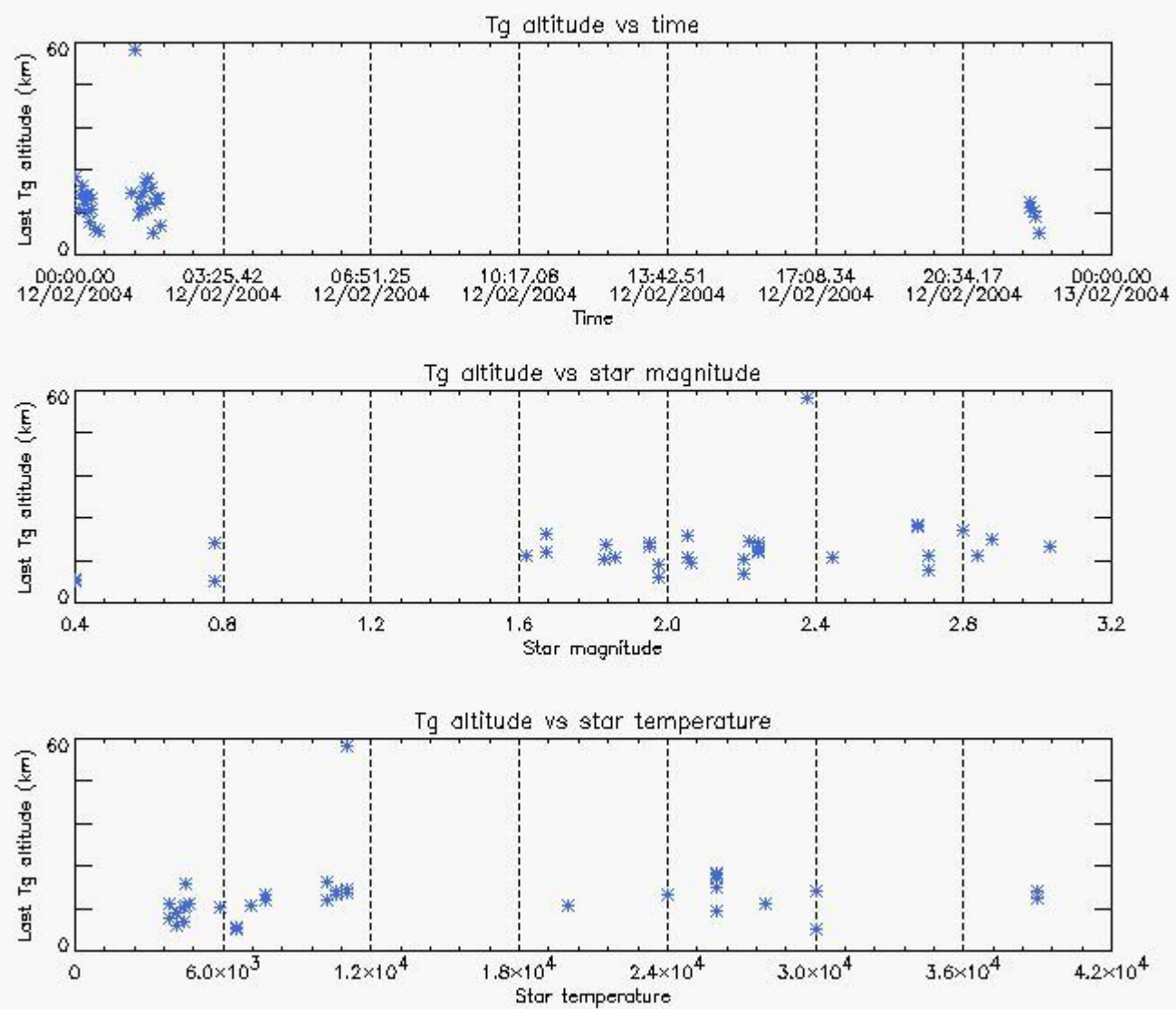
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	15.373	21.005
St. deviation:	8.6116	3.0989
Maximum:	57.836	28.077
Minimum:	6.0003	15.236
Number of data:	34.000	15.000

6.2 Plot for DARK limb products

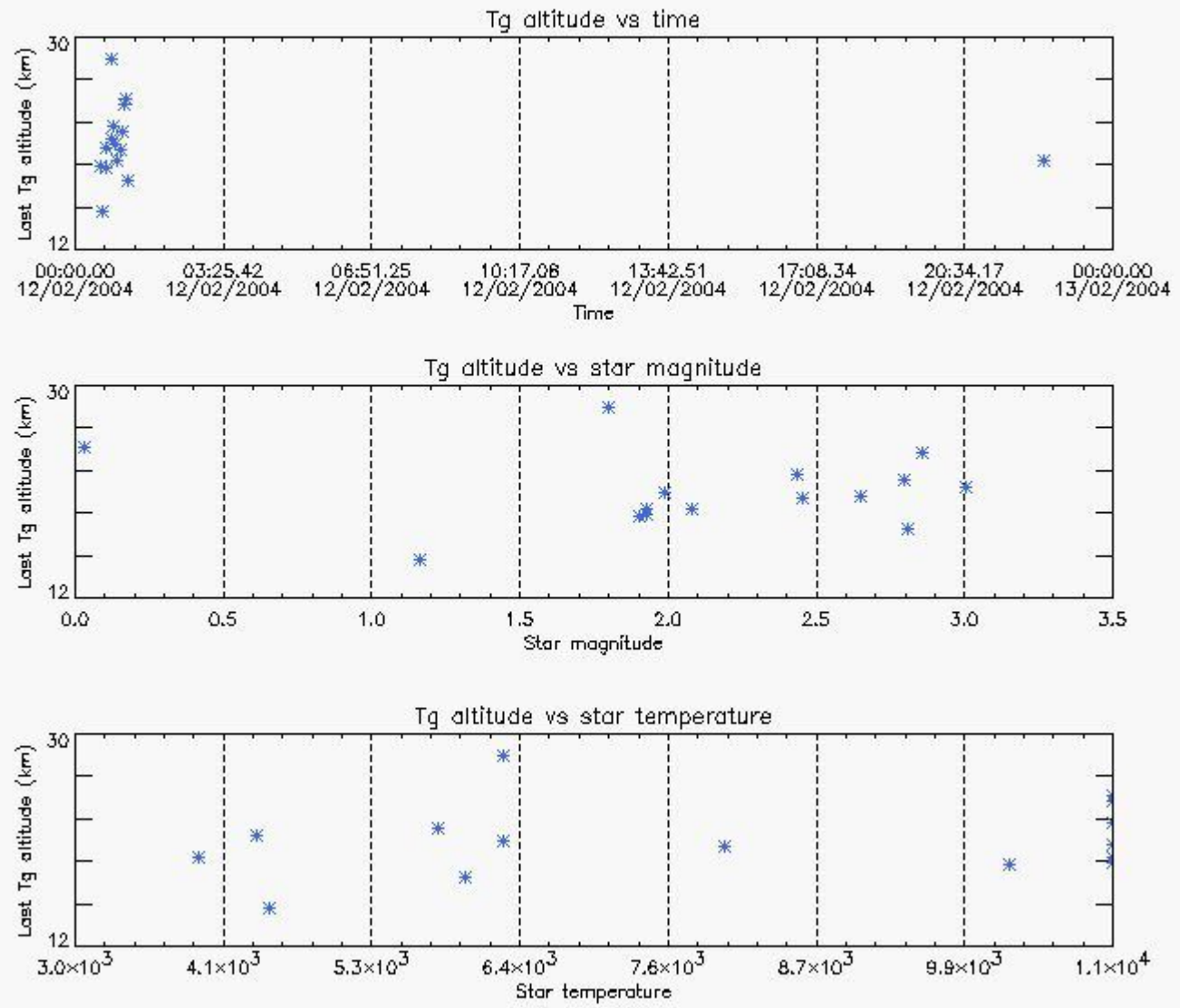
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



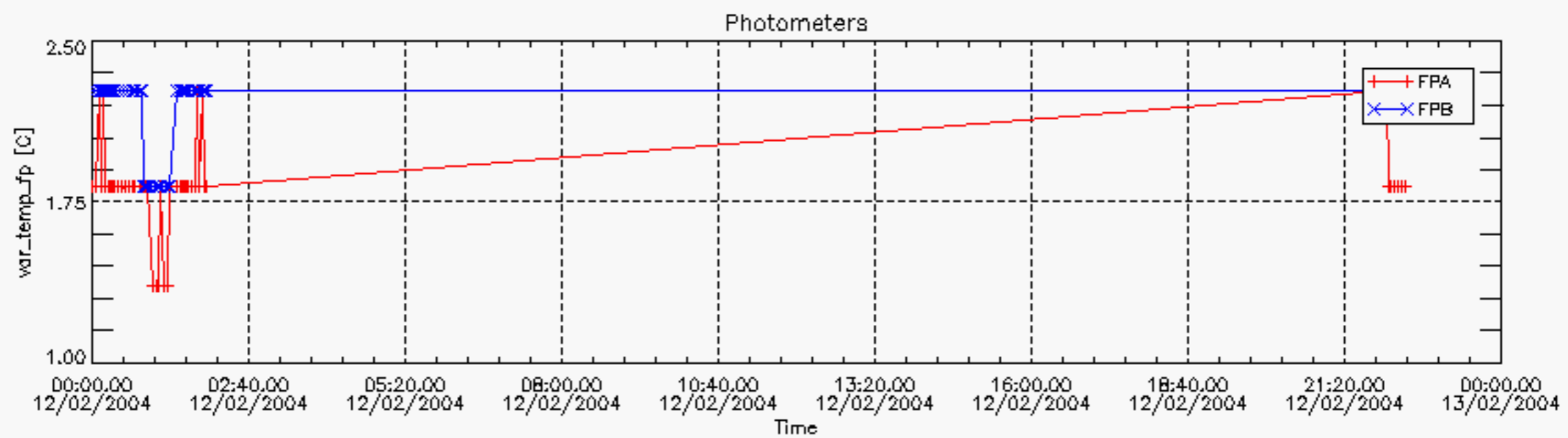
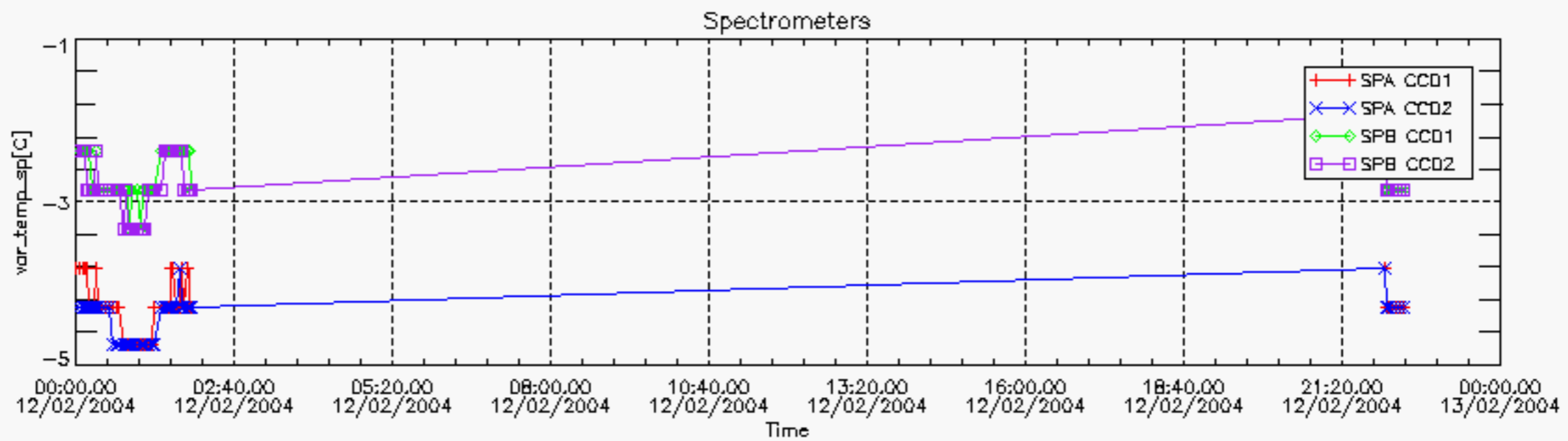
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

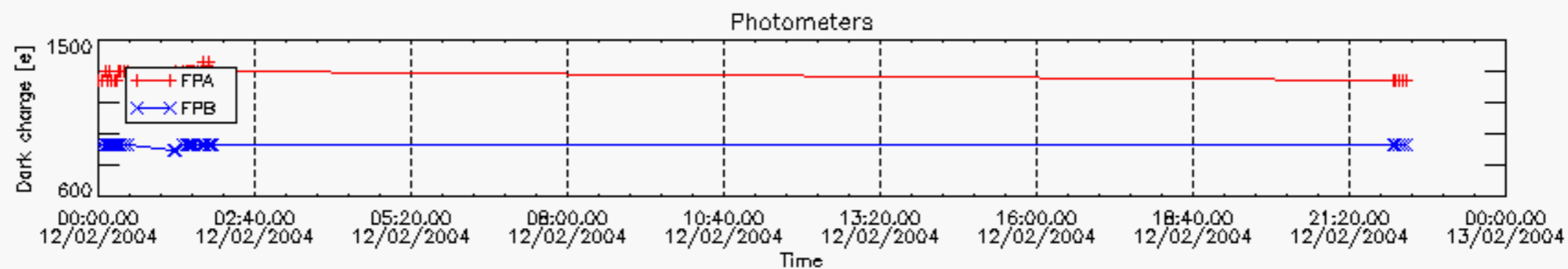
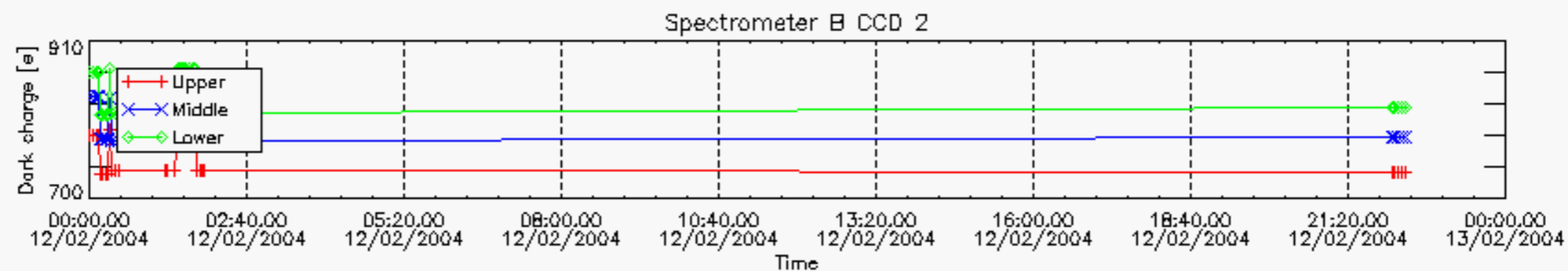
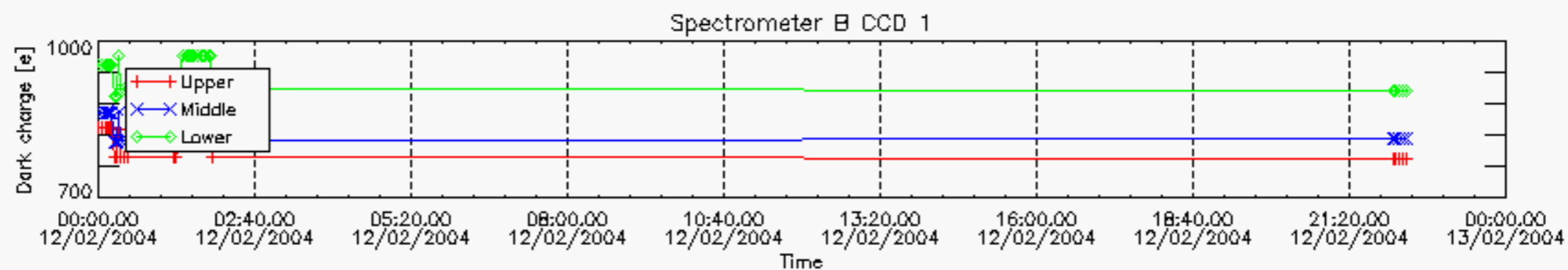
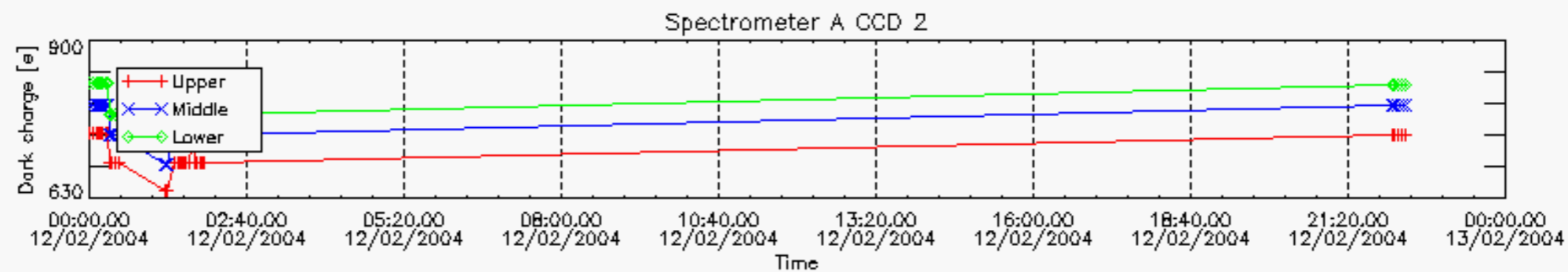
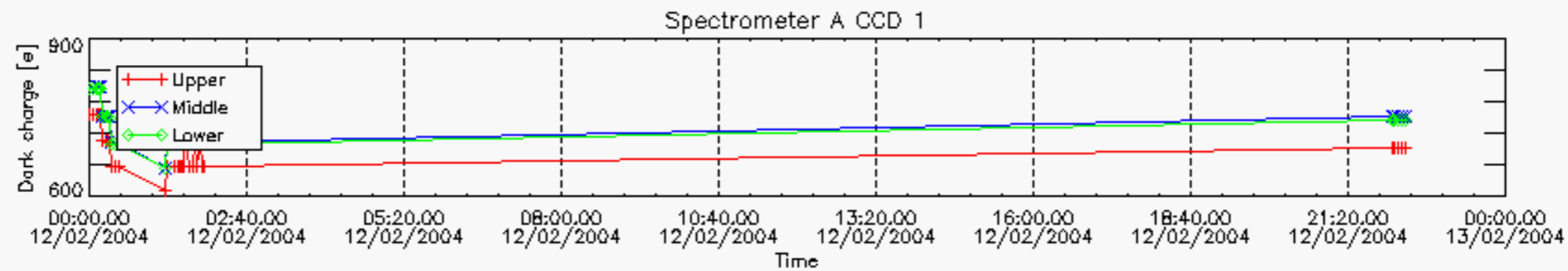
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

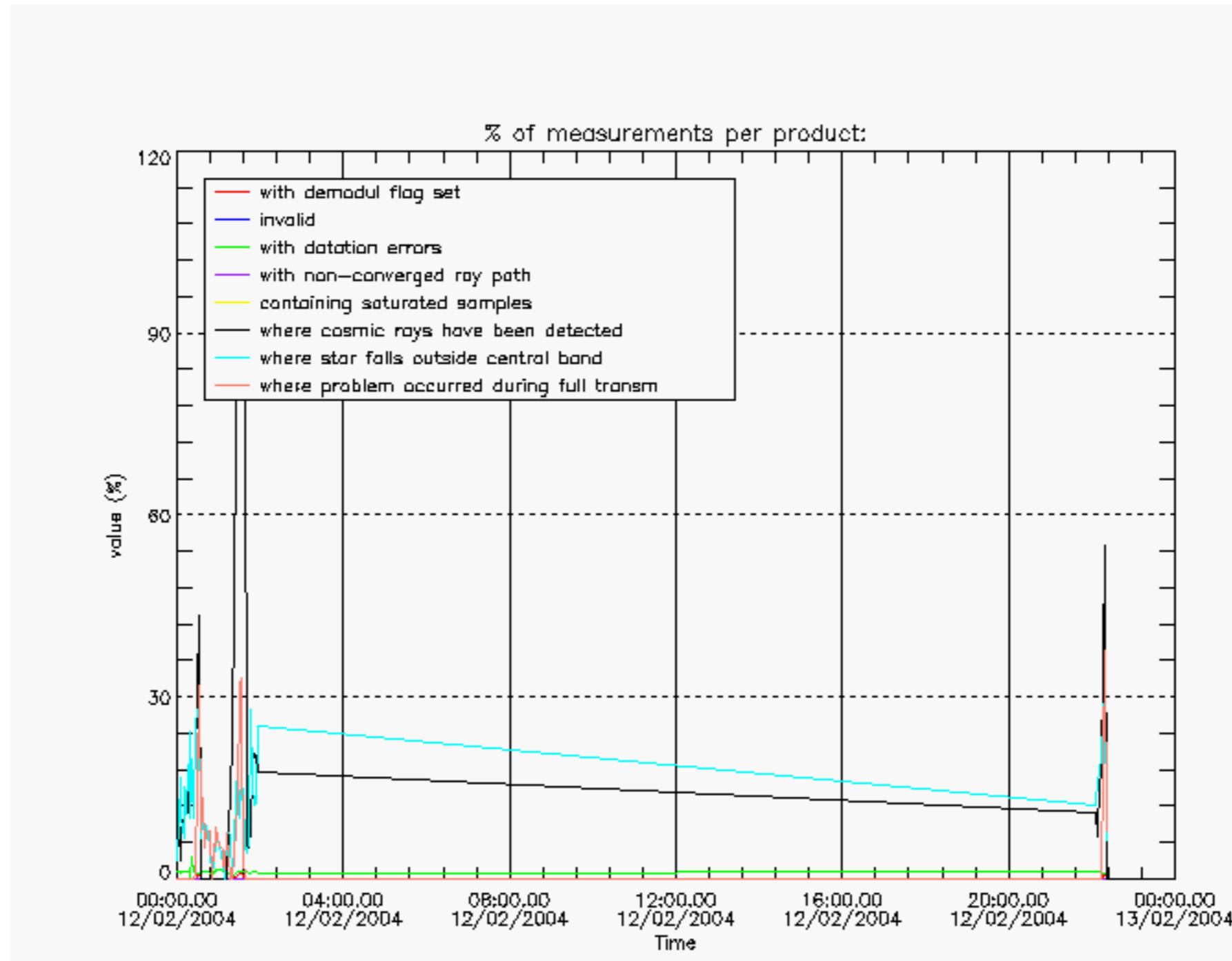
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.0	1447.0	1460.9	1447.4
St. deviation:	5.2843	7.9722	6.9777	9.2400
Maximum:	1616.0	1547.0	1505.0	1505.0
Minimum:	1456.0	1430.0	1431.0	1421.0
Number of data:	45600.	45600.	16650.	16650.



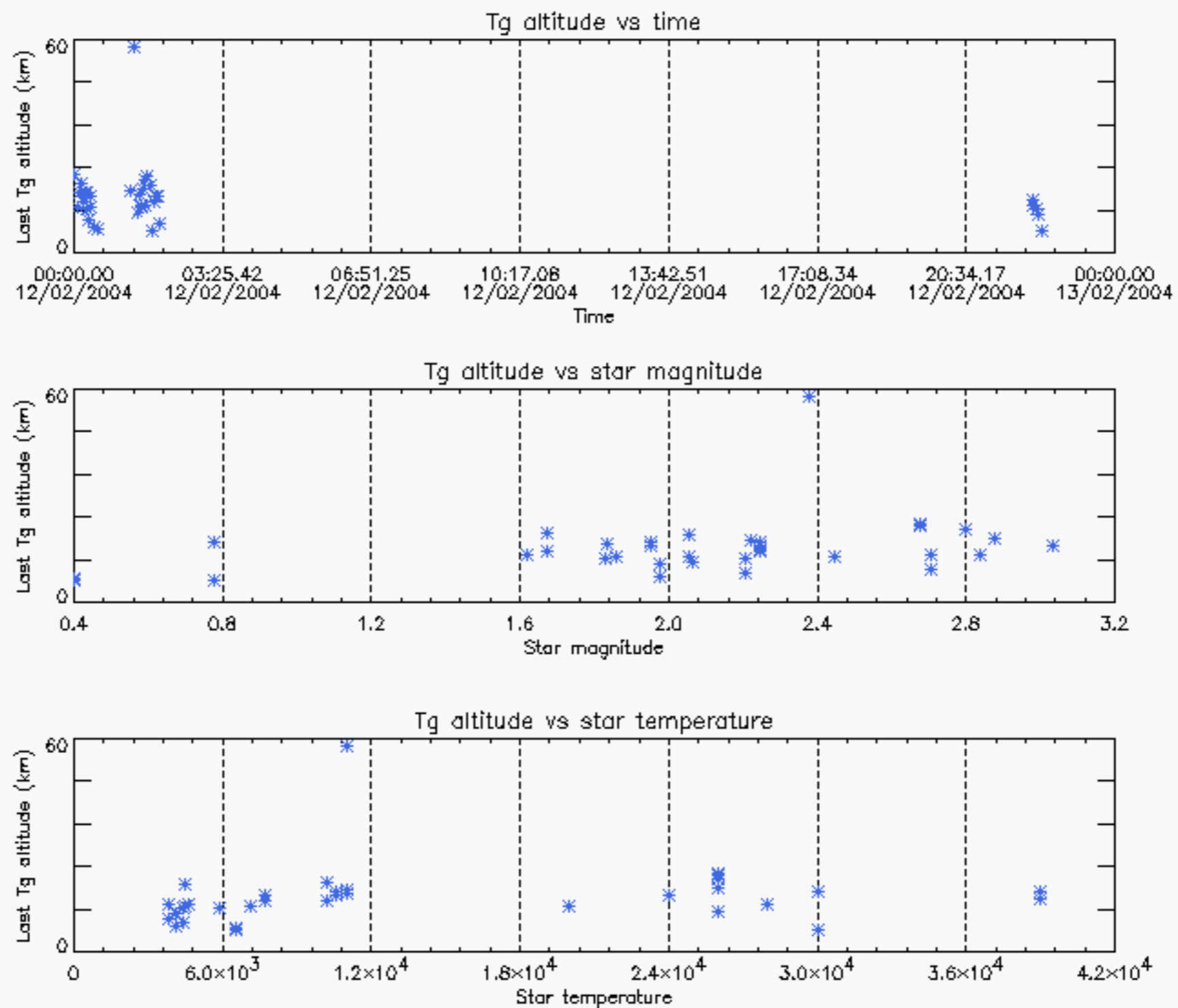




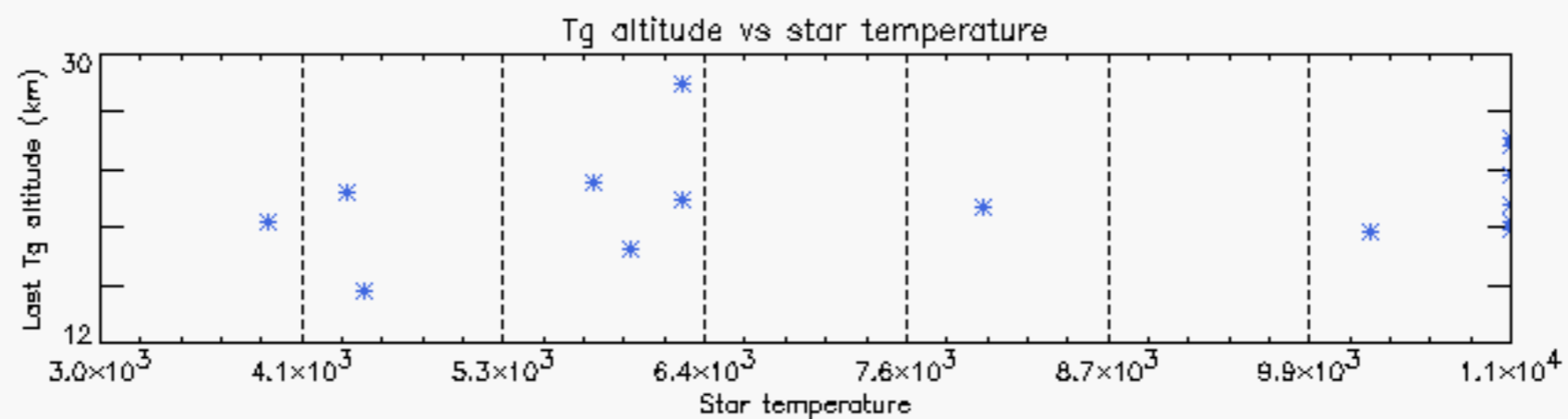
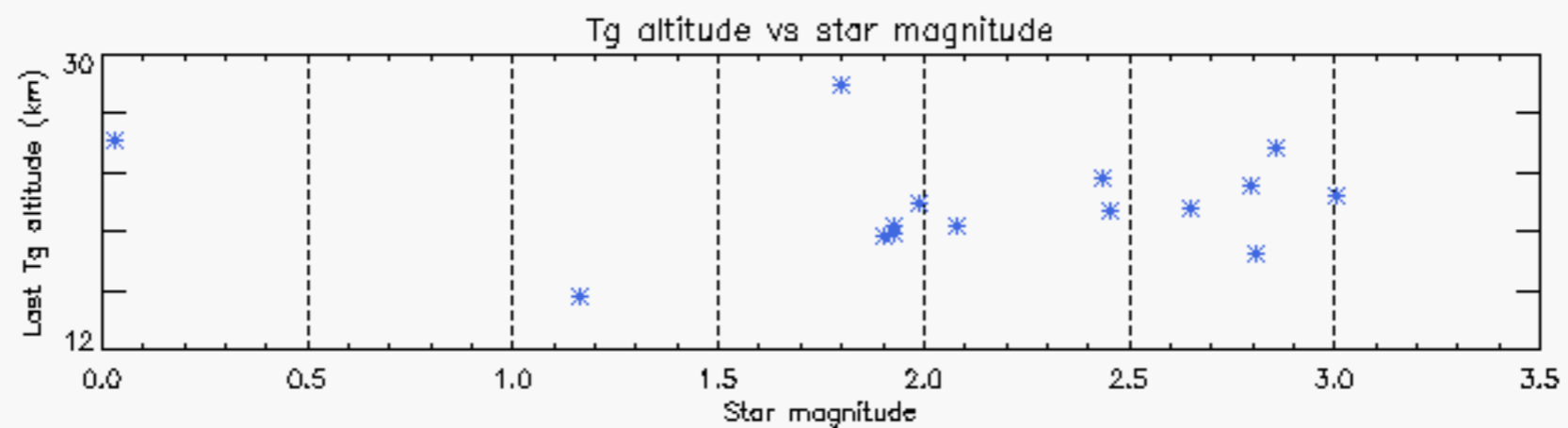
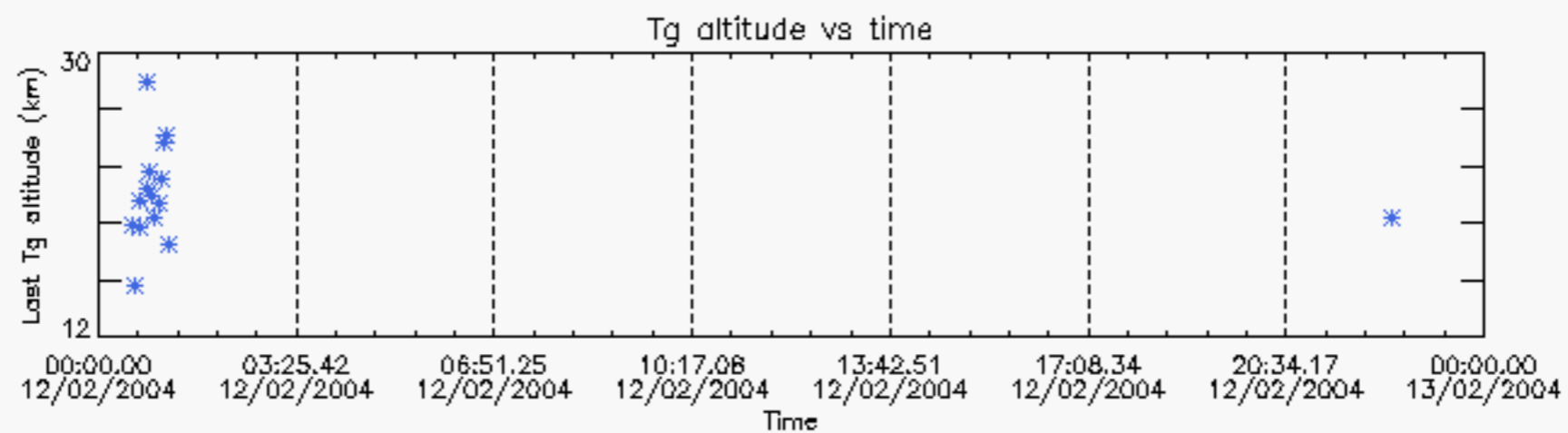




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040201_061239_000061992023_00478_10051_0894.N1

1; -4392.0; 01-FEB-2004 06:12:39; Dark ; 48.5; 1; 9Alp CMa ; -1.44; 11000;occ; 97; 0;10051
 2; -4292.9; 01-FEB-2004 06:14:18; Dark ; 69.5; 48; 30Alp Hya ; 1.98; 4100;occ; 139; 0;10051
 3; -4044.3; 01-FEB-2004 06:18:27; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;10051
 4; -3950.7; 01-FEB-2004 06:20:00; Bright; 50.5; 14; 58Alp Ori ; 0.87; 3000;occ; 101; 0;10051
 5; -3838.1; 01-FEB-2004 06:21:53; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;10051
 6; -3728.1; 01-FEB-2004 06:23:43; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;10051
 7; -3642.3; 01-FEB-2004 06:25:09; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;10051
 8; -3470.2; 01-FEB-2004 06:28:01; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;10051
 9; -3344.7; 01-FEB-2004 06:30:06; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;10051
 10; -2779.1; 01-FEB-2004 06:39:32; Bright; 50.5; 82; 48Bet UMa ; 2.37; 10600;occ; 101; 0;10051
 11; -2609.3; 01-FEB-2004 06:42:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;10051
 12; -2423.0; 01-FEB-2004 06:45:28; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;10051
 13; -2302.7; 01-FEB-2004 06:47:28; Bright; 63.5; 55; 79Zet UMa ; 2.06; 10200;occ; 127; 0;10051
 14; -2140.4; 01-FEB-2004 06:50:11; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;10051
 15; -1950.4; 01-FEB-2004 06:53:20; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;10051
 16; -1732.9; 01-FEB-2004 06:56:58; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;10051
 17; -1550.9; 01-FEB-2004 07:00:00; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;10051
 18; -1305.5; 01-FEB-2004 07:04:05; Bright; 98.5; 83; ; 2.38; 11000;occ; 197; 0;10051
 19; -1113.1; 01-FEB-2004 07:07:18; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;10051
 20; -902.4; 01-FEB-2004 07:10:48; Dark ; 70.0; 102; 24Alp Ser ; 2.60; 4250;occ; 140; 0;10051
 21; -724.8; 01-FEB-2004 07:13:46; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;10051
 22; -561.2; 01-FEB-2004 07:16:30; Dark ; 40.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 81; 0;10051
 23; -466.6; 01-FEB-2004 07:18:04; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;10051
 24; -332.2; 01-FEB-2004 07:20:19; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;10051
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9;-2794.5; 02-FEB-2004 14:30:39; Bright; 48.0; 82; 48Bet UMa ; 2.37; 10600;occ; 96; 0;10070
10;-2609.0; 02-FEB-2004 14:33:44; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;10070
11;-2427.7; 02-FEB-2004 14:36:46; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;10070
12;-2318.1; 02-FEB-2004 14:38:35; Bright; 57.5; 55; 79Zet UMa ; 2.06; 10200;occ; 115; 0;10070
13;-2143.7; 02-FEB-2004 14:41:30; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;10070
14;-1950.6; 02-FEB-2004 14:44:43; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;10070
15;-1730.0; 02-FEB-2004 14:48:23; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;10070
16;-1548.1; 02-FEB-2004 14:51:25; Bright; 45.0; 133; 40Zet Her ; 2.81; 6000;occ; 90; 0;10070
17;-1290.8; 02-FEB-2004 14:55:42; Dark ; 111.0; 83; ; 2.38; 11000;occ; 222; 0;10070
18; -883.6; 02-FEB-2004 15:02:30; Dark ; 72.0; 102; 24Alp Ser ; 2.60; 4250;occ; 144; 0;10070
19; -715.1; 02-FEB-2004 15:05:18; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;10070
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21; -453.1; 02-FEB-2004 15:09:40; Dark ; 52.5; 16; 21Alp Sco ; 1.02; 3000;occ; 105; 0;10070
22; -326.5; 02-FEB-2004 15:11:47; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;10070
23; -214.4; 02-FEB-2004 15:13:39; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;10070
24; -104.6; 02-FEB-2004 15:15:29; Dark ; 44.0; 131; Gam Lup ; 2.80; 26000;occ; 88; 0;10070
25; 31.1; 02-FEB-2004 15:17:44; Dark ; 46.0; 109; Bet Lup ; 2.68; 26000;occ; 92; 0;10071
26; 199.8; 02-FEB-2004 15:20:33; Dark ; 38.5; 145; Gam TrA ; 2.87; 10600;occ; 77; 0;10071
27; 275.3; 02-FEB-2004 15:21:49; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10071
28; 477.3; 02-FEB-2004 15:25:11; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;10071
29; 684.6; 02-FEB-2004 15:28:38; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;10071
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31; 1082.3; 02-FEB-2004 15:35:16; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;10071
32; 1207.2; 02-FEB-2004 15:37:20; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;10071
33; 1288.2; 02-FEB-2004 15:38:41; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;10071

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

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2;	-4747.0;	02-FEB-2004	17:19:18;	Dark	;	43.5;	117;	Pi Pup	;	2.71;	3800;	occ;	87;	0;	10072
3;	-4563.8;	02-FEB-2004	17:22:22;	Dark	;	42.5;	37;	25Del CMA	;	1.83;	5900;	occ;	85;	0;	10072
4;	-4388.0;	02-FEB-2004	17:25:17;	Dark	;	48.5;	1;	9Alp CMA	;	-1.44;	11000;	occ;	97;	0;	10072
5;	-4294.2;	02-FEB-2004	17:26:51;	Dark	;	62.0;	48;	30Alp Hya	;	1.98;	4100;	occ;	124;	0;	10072
6;	-4043.9;	02-FEB-2004	17:31:01;	Dark	;	53.0;	8;	10Alp CMi	;	0.40;	6500;	occ;	106;	0;	10072
7;	-3834.9;	02-FEB-2004	17:34:30;	Bright;		39.5;	44;	24Gam Gem	;	1.93;	11000;	occ;	79;	0;	10072
8;	-3724.0;	02-FEB-2004	17:36:21;	Bright;		39.5;	151;	13Mu Gem	;	2.89;	3000;	occ;	79;	0;	10072
9;	-3582.6;	02-FEB-2004	17:38:43;	Bright;		40.5;	24;	66Alp Gem	;	1.58;	10200;	occ;	81;	0;	10072
10;	-3465.5;	02-FEB-2004	17:40:40;	Bright;		37.0;	107;	37The Aur	;	2.65;	11000;	occ;	74;	0;	10072
11;	-3340.6;	02-FEB-2004	17:42:45;	Bright;		36.5;	42;	34Bet Aur	;	1.90;	10200;	occ;	73;	0;	10072
12;	-2797.0;	02-FEB-2004	17:51:48;	Bright;		50.0;	82;	48Bet UMA	;	2.37;	10600;	occ;	100;	0;	10072
13;	-2609.2;	02-FEB-2004	17:54:56;	Bright;		37.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	75;	0;	10072
14;	-2428.1;	02-FEB-2004	17:57:57;	Bright;		42.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	85;	0;	10072
15;	-2319.7;	02-FEB-2004	17:59:46;	Bright;		58.5;	55;	79Zet UMA	;	2.06;	10200;	occ;	117;	0;	10072
16;	-2144.1;	02-FEB-2004	18:02:41;	Bright;		40.0;	119;	14Eta Dra	;	2.73;	4700;	occ;	80;	0;	10072
17;	-1950.6;	02-FEB-2004	18:05:55;	Bright;		37.0;	130;	23Bet Dra	;	2.80;	5800;	occ;	74;	0;	10072
18;	-1729.8;	02-FEB-2004	18:09:35;	Bright;		38.0;	5;	3Alp Lyr	;	0.03;	11000;	occ;	76;	0;	10072
19;	-1548.1;	02-FEB-2004	18:12:37;	Bright;		45.0;	133;	40Zet Her	;	2.81;	6000;	occ;	90;	0;	10072
20;	-1289.5;	02-FEB-2004	18:16:56;	Dark	;	119.0;	83;		;	2.38;	11000;	occ;	238;	0;	10072
21;	-883.2;	02-FEB-2004	18:23:42;	Dark	;	76.5;	102;	24Alp Ser	;	2.60;	4250;	occ;	153;	0;	10072
22;	-713.9;	02-FEB-2004	18:26:31;	Dark	;	47.5;	86;	35Eta Oph	;	2.43;	10200;	occ;	95;	0;	10072
23;	-555.9;	02-FEB-2004	18:29:09;	Dark	;	41.0;	167;	10Gam2Sgr	;	2.98;	4500;	occ;	82;	0;	10072
24;	-451.6;	02-FEB-2004	18:30:54;	Dark	;	60.0;	16;	21Alp Sco	;	1.02;	3000;	occ;	120;	0;	10072
25;	-326.0;	02-FEB-2004	18:32:59;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;	occ;	83;	0;	10072
26;	-213.5;	02-FEB-2004	18:34:52;	Dark	;	37.5;	147;	Alp Ara	;	2.88;	26000;	occ;	75;	0;	10072
27;	-102.4;	02-FEB-2004	18:36:43;	Dark	;	44.5;	131;	Gam Lup	;	2.80;	26000;	occ;	89;	0;	10072
28;	33.2;	02-FEB-2004	18:38:59;	Dark	;	45.5;	109;	Bet Lup	;	2.68;	26000;	occ;	91;	0;	10073
29;	200.7;	02-FEB-2004	18:41:46;	Dark	;	39.0;	145;	Gam TrA	;	2.87;	10600;	occ;	78;	0;	10073
30;	275.5;	02-FEB-2004	18:43:01;	Dark	;	58.5;	0;		;	0.00;	0;	occ;	117;	0;	10073
31;	479.0;	02-FEB-2004	18:46:24;	Dark	;	52.0;	12;	Alp1Cru	;	0.77;	30000;	occ;	104;	0;	10073
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17;-2144.3; 02-FEB-2004 19:43:17; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;10073
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19;-1729.7; 02-FEB-2004 19:50:12; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;10073
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23; -713.2; 02-FEB-2004 20:07:08; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;10073
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27; -213.1; 02-FEB-2004 20:15:28; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;10073
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2;	-4385.9;	03-FEB-2004	11:51:54;	Dark	;	50.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	101;	0;	10083
3;	-4044.2;	03-FEB-2004	11:57:36;	Dark	;	51.0;	8;	10Alp CMi	;	0.40;	6500;occ;	102;	0;	10083
4;	-3832.9;	03-FEB-2004	12:01:07;	Bright;	;	37.5;	44;	24Gam Gem	;	1.93;	11000;occ;	75;	0;	10083
5;	-3722.2;	03-FEB-2004	12:02:58;	Bright;	;	41.0;	151;	13Mu Gem	;	2.89;	3000;occ;	82;	0;	10083
6;	-3583.6;	03-FEB-2004	12:05:17;	Bright;	;	39.5;	24;	66Alp Gem	;	1.58;	10200;occ;	79;	0;	10083
7;	-3462.6;	03-FEB-2004	12:07:18;	Bright;	;	37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	10083
8;	-3338.8;	03-FEB-2004	12:09:22;	Bright;	;	37.5;	42;	34Bet Aur	;	1.90;	10200;occ;	75;	0;	10083
9;	-2805.7;	03-FEB-2004	12:18:15;	Bright;	;	48.5;	82;	48Bet UMa	;	2.37;	10600;occ;	97;	0;	10083
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12;	-2327.9;	03-FEB-2004	12:26:12;	Bright;	;	54.5;	55;	79Zet UMa	;	2.06;	10200;occ;	109;	0;	10083
13;	-2147.4;	03-FEB-2004	12:29:13;	Bright;	;	41.0;	119;	14Eta Dra	;	2.73;	4700;occ;	82;	0;	10083
14;	-1951.5;	03-FEB-2004	12:32:29;	Bright;	;	37.5;	130;	23Bet Dra	;	2.80;	5800;occ;	75;	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
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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33;	1290.4;	03-FEB-2004	13:26:31;	Dark	;	48.0;	117;	Pi Pup	;	2.71;	3800;occ;	96;	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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6;	-3583.5;	03-FEB-2004	13:45:53;	Bright;	;	39.0;	24;	66Alp Gem	;	1.58;	10200;occ;	78;	0;	10084
7;	-3462.2;	03-FEB-2004	13:47:54;	Bright;	;	37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	10084
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;	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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29;	498.2;	08-FEB-2004	10:35:14;	Dark	;	42.5;	20;	Bet Cru	;	1.25;	30000;occ;	85;	0;	10154
30;	589.0;	08-FEB-2004	10:36:44;	Dark	;	48.0;	64;	Gam Cen	;	2.20;	10600;occ;	96;	0;	10154
31;	702.9;	08-FEB-2004	10:38:38;	Dark	;	38.5;	29;	Bet Car	;	1.67;	10200;occ;	77;	0;	10154
32;	852.9;	08-FEB-2004	10:41:08;	Dark	;	39.0;	71;	Iot Car	;	2.25;	7700;occ;	78;	0;	10154
33;	954.2;	08-FEB-2004	10:42:50;	Dark	;	38.5;	46;	Del Vel	;	1.95;	10600;occ;	77;	0;	10154
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35;	1225.6;	08-FEB-2004	10:47:21;	Dark	;	38.0;	70;	Zet Pup	;	2.25;	39000;occ;	76;	0;	10154
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6;	-3587.0;	08-FEB-2004	11:07:44;	Bright;		39.0;	24;	66Alp Gem	;	1.58;	10200;occ;	78;	0;	10154
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8;	-3319.3;	08-FEB-2004	11:12:12;	Bright;		39.0;	42;	34Bet Aur	;	1.90;	10200;occ;	78;	0;	10154
9;	-3175.6;	08-FEB-2004	11:14:36;	Bright;		112.0;	96;	68Del Leo	;	2.56;	9300;occ;	224;	0;	10154
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14;	-1954.5;	08-FEB-2004	11:34:57;	Bright;		42.5;	130;	23Bet Dra	;	2.80;	5800;occ;	85;	0;	10154
15;	-1861.4;	08-FEB-2004	11:36:30;	Bright;		36.5;	144;	18Del Cyg	;	2.86;	11000;occ;	73;	0;	10154
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17;	-1536.6;	08-FEB-2004	11:41:55;	Bright;		48.0;	133;	40Zet Her	;	2.81;	6000;occ;	96;	0;	10154
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21;	-558.9;	08-FEB-2004	11:58:12;	Dark	;	43.5;	116;	19Del Sgr	;	2.70;	4100;occ;	87;	0;	10154
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36; 1303.1; 08-FEB-2004 12:29:14; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;10155
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17;	-1942.3;	18-FEB-2004	19:43:46;	Bright;		42.0;	69;	33Gam Dra	;	2.23;	3800;occ;	84;	0;	10302
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27;	-162.3;	22-FEB-2004	21:28:10;	Dark	;	61.5;	16;	21Alp	Sco	;	1.02;	3000;	occ;	123;	0;	10360
28;	-32.4;	22-FEB-2004	21:30:20;	Dark	;	77.0;	80;	7Del	Sco	;	2.32;	30000;	occ;	154;	0;	10360
29;	127.7;	22-FEB-2004	21:33:00;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	10361
30;	226.7;	22-FEB-2004	21:34:39;	Dark	;	40.5;	134;	Bet	TrA	;	2.81;	6600;	occ;	81;	0;	10361
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