

GOMOS Daily Report 20-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	21FEB2004 06:55:58
Data source version	<Any version>
Start time of products	20-FEB-2004 (20FEB2004 00:00:00)
Stop time of products	21-FEB-2004 (21FEB2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

2. Summary of products arrived in PCF

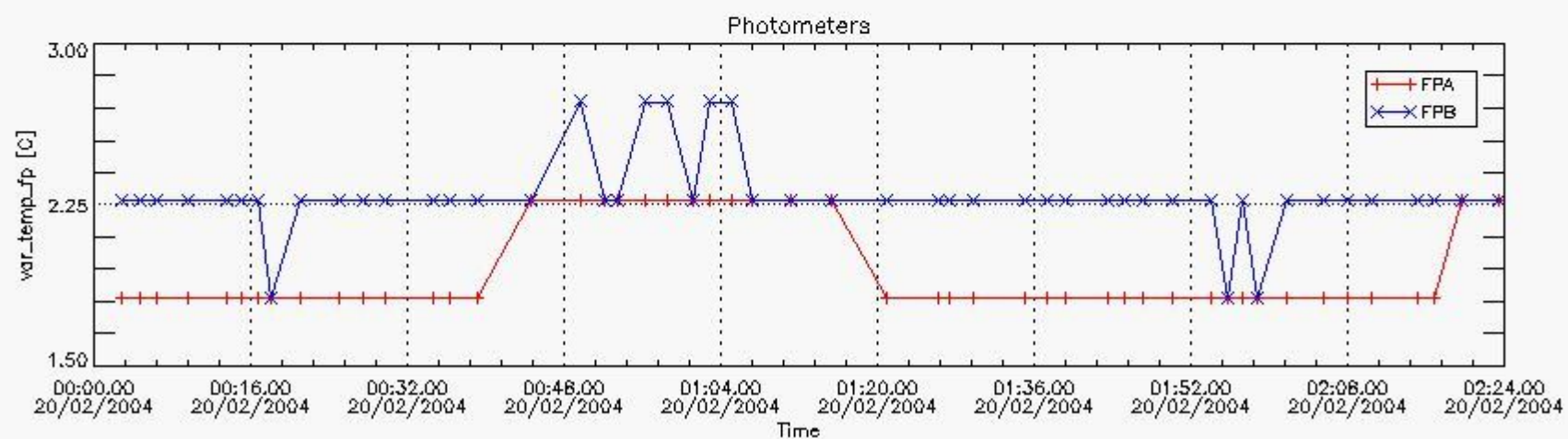
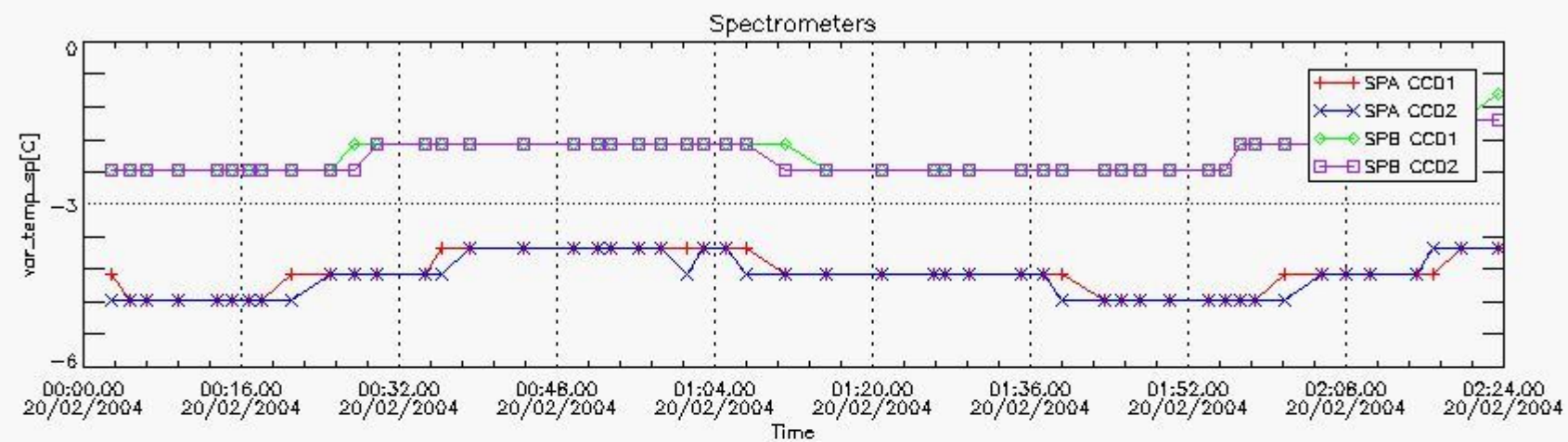
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040220_000252_000000382024_00245_10319_0011.N1	20-FEB-2004 00:02:52	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	10319	No
GOM_TRA_1PNPDE20040220_000439_000000392024_00245_10319_0012.N1	20-FEB-2004 00:04:39	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	10319	No
GOM_TRA_1PNPDE20040220_000626_000000662024_00245_10319_0013.N1	20-FEB-2004 00:06:26	Bright	66.000	39	85Eta UMa	1.8540	24000.	132	10319	No
GOM_TRA_1PNPDE20040220_000930_000000462024_00245_10319_0014.N1	20-FEB-2004 00:09:30	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	10319	No
GOM_TRA_1PNPDE20040220_001328_000000432024_00245_10319_0015.N1	20-FEB-2004 00:13:28	Bright	42.500	130	23Bet Dra	2.7990	5800.0	85	10319	No
GOM_TRA_1PNPDE20040220_001505_000000402024_00245_10319_0016.N1	20-FEB-2004 00:15:05	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	10319	No
GOM_TRA_1PNPDE20040220_001643_000000372024_00245_10319_0017.N1	20-FEB-2004 00:16:43	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	10319	No
GOM_TRA_1PNPDE20040220_001809_000000382024_00245_10319_0018.N1	20-FEB-2004 00:18:09	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	10319	No
GOM_TRA_1PNPDE20040220_002110_000000622024_00245_10319_0019.N1	20-FEB-2004 00:21:10	Bright	62.000	133	40Zet Her	2.8070	6000.0	124	10319	No
GOM_TRA_1PNPDE20040220_002459_000000372024_00245_10319_0020.N1	20-FEB-2004 00:24:59	Bright	37.000	168	17Zet Aql	2.9860	11000.	74	10319	No
GOM_TRA_1PNPDE20040220_002724_000000602024_00245_10319_0021.N1	20-FEB-2004 00:27:24	Dark	60.000	59	55Alp Oph	2.0800	8900.0	120	10319	No
GOM_TRA_1PNPDE20040220_002945_000000562024_00245_10319_0022.N1	20-FEB-2004 00:29:45	Dark	56.000	126	60Bet Oph	2.7700	4250.0	112	10319	No
GOM_TRA_1PNPDE20040220_003434_000000432024_00245_10319_0023.N1	20-FEB-2004 00:34:34	Dark	43.000	155	41Pi Sgr	2.9000	6600.0	86	10319	No
GOM_TRA_1PNPDE20040220_003616_000000422024_00245_10319_0024.N1	20-FEB-2004 00:36:16	Dark	42.000	57	34Sig Sgr	2.0660	26000.	84	10319	No
GOM_TRA_1PNPDE20040220_003908_000000422024_00245_10319_0025.N1	20-FEB-2004 00:39:08	Dark	41.500	38	20Eps Sgr	1.8360	11000.	83	10319	No
GOM_TRA_1PNPDE20040220_004437_000000792024_00245_10319_0027.N1	20-FEB-2004 00:44:37	Dark	79.000	80	7Del Sco	2.3160	30000.	158	10319	No
GOM_TRA_1PNPDE20040220_004942_000000432024_00246_10320_0028.N1	20-FEB-2004 00:49:42	Dark	43.000	134	Bet TrA	2.8100	6600.0	86	10320	No
GOM_TRA_1PNPDE20040220_005207_000000482024_00246_10320_0029.N1	20-FEB-2004 00:52:07	Dark	48.000	4	Alp1Cen	-0.010000	5800.0	96	10320	No
GOM_TRA_1PNPDE20040220_005325_000000492024_00246_10320_0030.N1	20-FEB-2004 00:53:25	Dark	48.500	10	Bet Cen	0.61000	28000.	97	10320	No
GOM_TRA_1PNPDE20040220_005622_000000502024_00246_10320_0031.N1	20-FEB-2004 00:56:22	Dark	49.500	12	Alp1Cru	0.77500	30000.	99	10320	No
GOM_TRA_1PNPDE20040220_005831_000000472024_00246_10320_0032.N1	20-FEB-2004 00:58:31	Dark	46.500	29	Bet Car	1.6720	10200.	93	10320	No
GOM_TRA_1PNPDE20040220_010109_000000452024_00246_10320_0033.N1	20-FEB-2004 01:01:09	Dark	44.500	71	lot Car	2.2460	7700.0	89	10320	No
GOM_TRA_1PNPDE20040220_010247_000000392024_00246_10320_0034.N1	20-FEB-2004 01:02:47	Dark	38.500	46	Del Vel	1.9540	10600.	77	10320	No
GOM_TRA_1PNPDE20040220_010508_000000402024_00246_10320_0035.N1	20-FEB-2004 01:05:08	Dark	40.000	34	Gam2Vel	1.7930	23000.	80	10320	No
GOM_TRA_1PNPDE20040220_010713_000000412024_00246_10320_0036.N1	20-FEB-2004 01:07:13	Dark	41.000	70	Zet Pup	2.2460	39000.	82	10320	No
GOM_TRA_1PNPDE20040220_011112_000000852024_00246_10320_0000.N1	20-FEB-2004 01:11:12	Dark	84.500	100	4Gam Crv	2.5800	13100.	169	10320	No
GOM_TRA_1PNPDE20040220_011520_000000482024_00246_10320_0001.N1	20-FEB-2004 01:15:20	Dark	47.500	48	30Alp Hya	1.9770	4100.0	95	10320	No
GOM_TRA_1PNPDE20040220_012101_000000382024_00246_10320_0002.N1	20-FEB-2004 01:21:01	Bright	37.500	153	3Bet CMi	2.8940	13100.	75	10320	No
GOM_TRA_1PNPDE20040220_012612_000000412024_00246_10320_0003.N1	20-FEB-2004 01:26:12	Bright	41.000	17	78Bet Gem	1.1610	4500.0	82	10320	No
GOM_TRA_1PNPDE20040220_012719_000000402024_00246_10320_0004.N1	20-FEB-2004 01:27:19	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	10320	No
GOM_TRA_1PNPDE20040220_012952_000001042024_00246_10320_0005.N1	20-FEB-2004 01:29:52	Bright	103.50	62	94Bet Leo	2.1360	9700.0	207	10320	No
GOM_TRA_1PNPDE20040220_013503_000000512024_00246_10320_0006.N1	20-FEB-2004 01:35:03	Bright	51.000	174	52Psi UMa	3.0040	4400.0	102	10320	No
GOM_TRA_1PNPDE20040220_013716_000000452024_00246_10320_0007.N1	20-FEB-2004 01:37:16	Bright	44.500	82	48Bet UMa	2.3650	10600.	89	10320	No
GOM_TRA_1PNPDE20040220_013910_000000502024_00246_10320_0008.N1	20-FEB-2004 01:39:10	Bright	50.000	87	64Gam UMa	2.4330	11000.	100	10320	No
GOM_TRA_1PNPDE20040220_014326_000000392024_00246_10320_0009.N1	20-FEB-2004 01:43:26	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	10320	No
GOM_TRA_1PNPDE20040220_014515_000000442024_00246_10320_0010.N1	20-FEB-2004 01:45:15	Bright	43.500	60	7Bet UMi	2.0810	3950.0	87	10320	No
GOM_TRA_1PNPDE20040220_014701_000000672024_00246_10320_0011.N1	20-FEB-2004 01:47:01	Bright	67.000	39	85Eta UMa	1.8540	24000.	134	10320	No
GOM_TRA_1PNPDE20040220_015006_000000452024_00246_10320_0012.N1	20-FEB-2004 01:50:06	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	10320	No
GOM_TRA_1PNPDE20040220_015403_000000442024_00246_10320_0013.N1	20-FEB-2004 01:54:03	Bright	44.000	130	23Bet Dra	2.7990	5800.0	88	10320	No
GOM_TRA_1PNPDE20040220_015541_000000402024_00246_10320_0014.N1	20-FEB-2004 01:55:41	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	10320	No
GOM_TRA_1PNPDE20040220_015720_000000372024_00246_10320_0015.N1	20-FEB-2004 01:57:20	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	10320	No
GOM_TRA_1PNPDE20040220_015845_000000392024_00246_10320_0016.N1	20-FEB-2004 01:58:45	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	10320	No
GOM_TRA_1PNPDE20040220_020146_000000582024_00246_10320_0017.N1	20-FEB-2004 02:01:46	Bright	58.000	133	40Zet Her	2.8070	6000.0	116	10320	No
GOM_TRA_1PNPDE20040220_020535_000000362024_00246_10320_0018.N1	20-FEB-2004 02:05:35	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	10320	No
GOM_TRA_1PNPDE20040220_020801_000000582024_00246_10320_0019.N1	20-FEB-2004 02:08:01	Dark	57.500	59	55Alp Oph	2.0800	8900.0	115	10320	No
GOM_TRA_1PNPDE20040220_021021_000000562024_00246_10320_0020.N1	20-FEB-2004 02:10:21	Dark	56.000	126	60Bet Oph	2.7700	4250.0	112	10320	No
GOM_TRA_1PNPDE20040220_021510_000000422024_00246_10320_0021.N1	20-FEB-2004 02:15:10	Dark	42.000	155	41Pi Sgr	2.9000	6600.0	84	10320	No
GOM_TRA_1PNPDE20040220_021653_000000452024_00246_10320_0022.N1	20-FEB-2004 02:16:53	Dark	44.500	57	34Sig Sgr	2.0660	26000.	89	10320	No
GOM_TRA_1PNPDE20040220_021945_000000432024_00246_10320_0023.N1	20-FEB-2004 02:19:45	Dark	42.500	38	20Eps Sgr	1.8360	11000.	85	10320	No
GOM_TRA_1PNPDE20040220_022321_000000622024_00246_10320_0024.N1	20-FEB-2004 02:23:21	Dark	62.000	16	21Alp Sco	1.0200	3000.0	124	10320	No

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



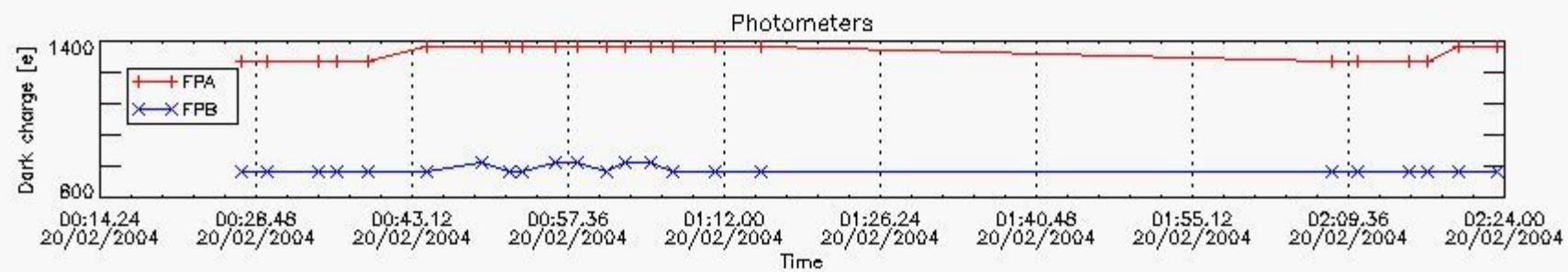
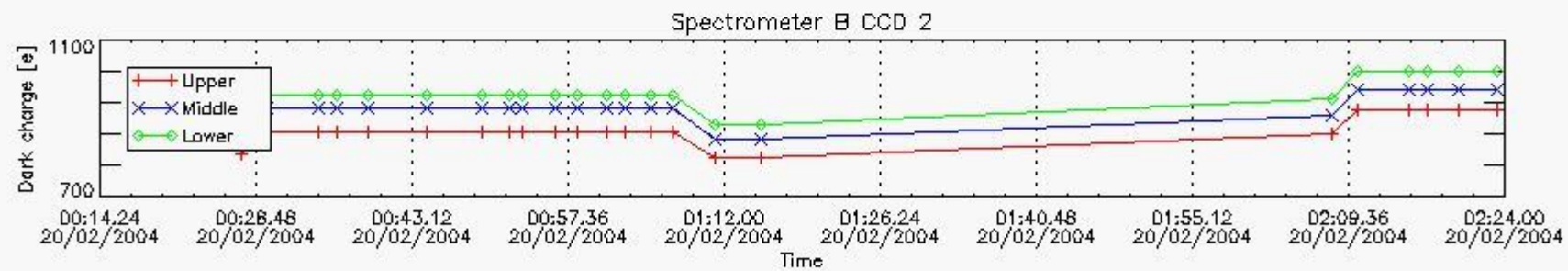
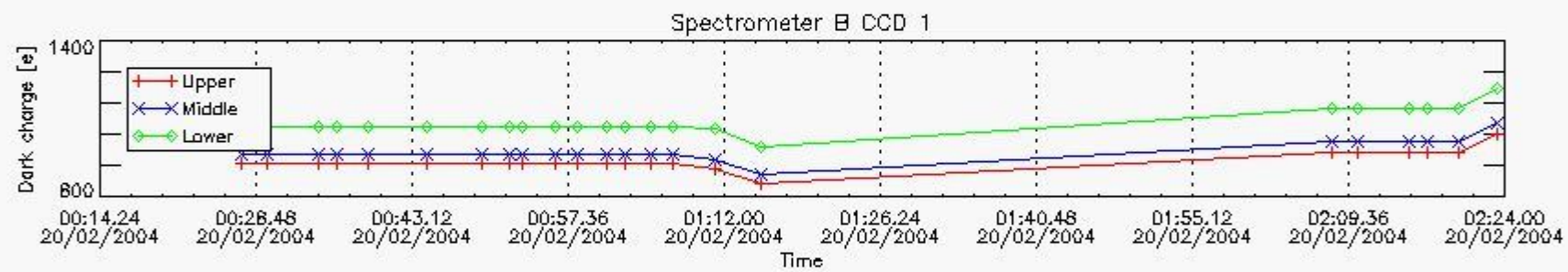
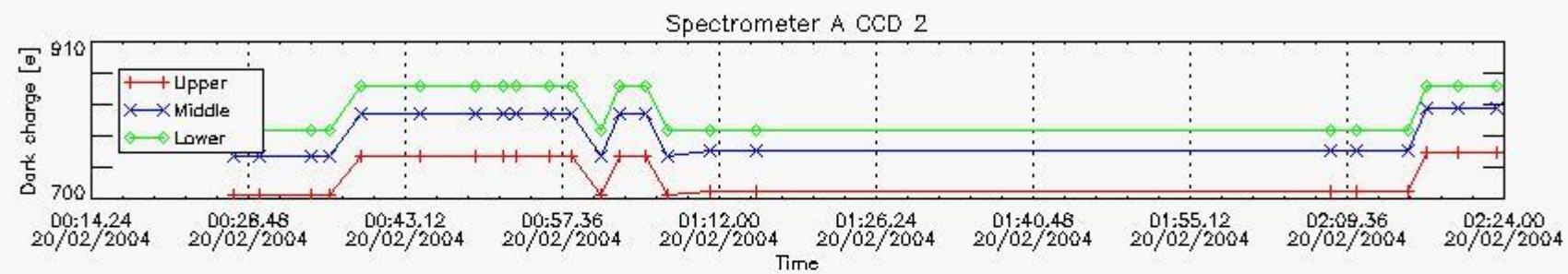
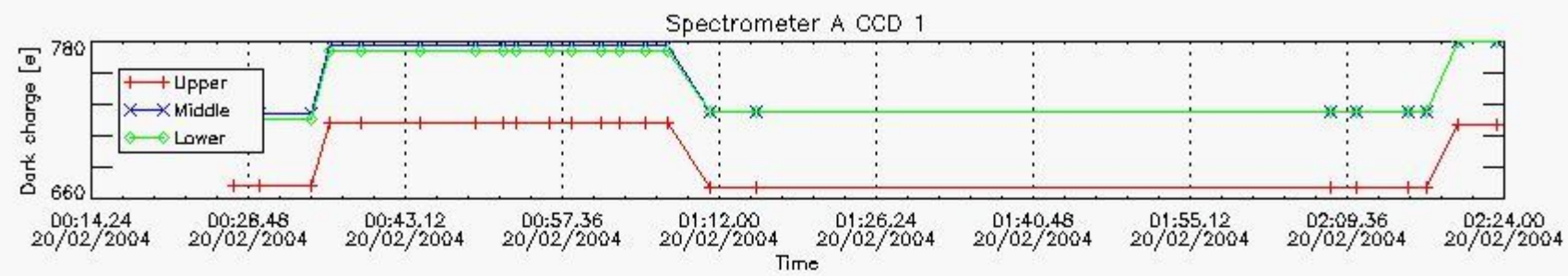
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

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

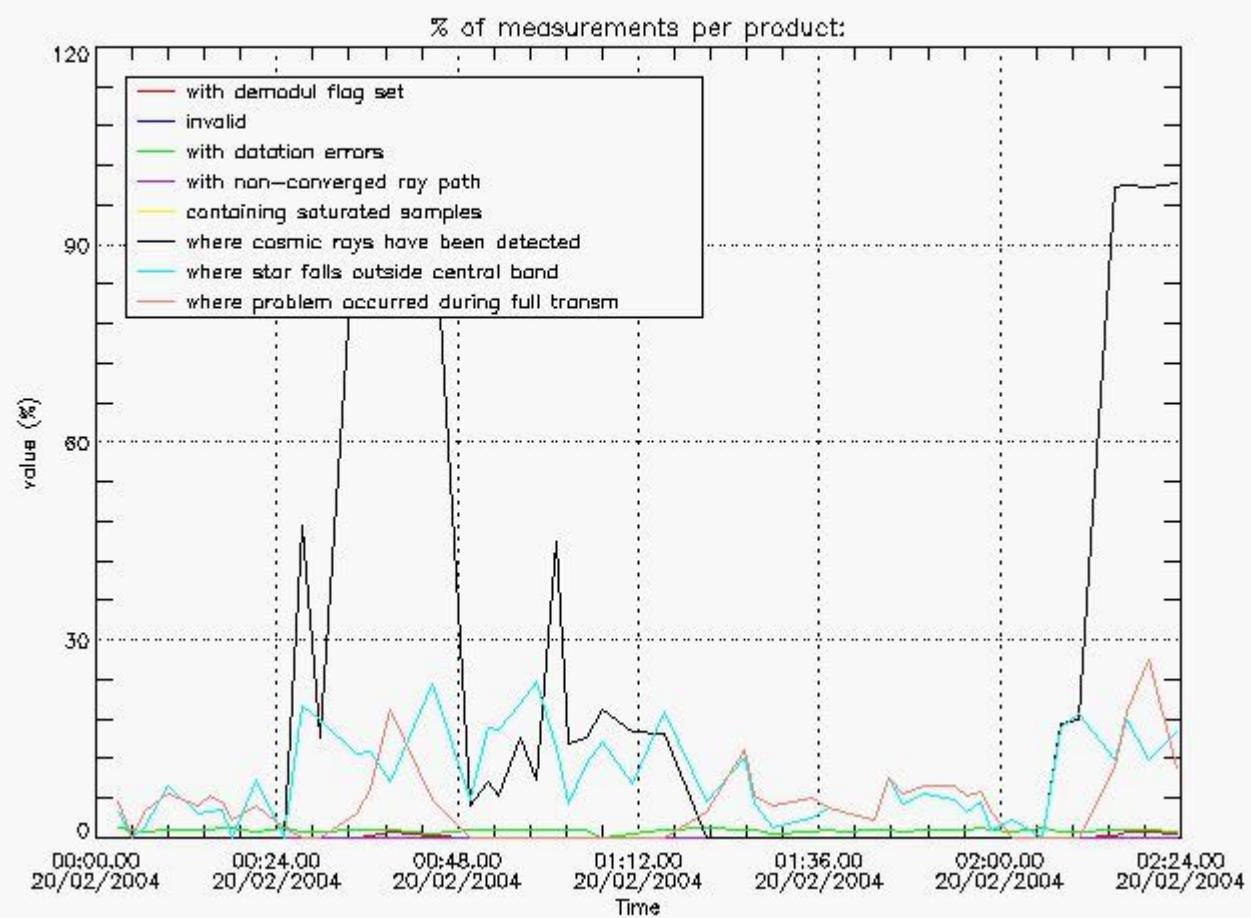


5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product



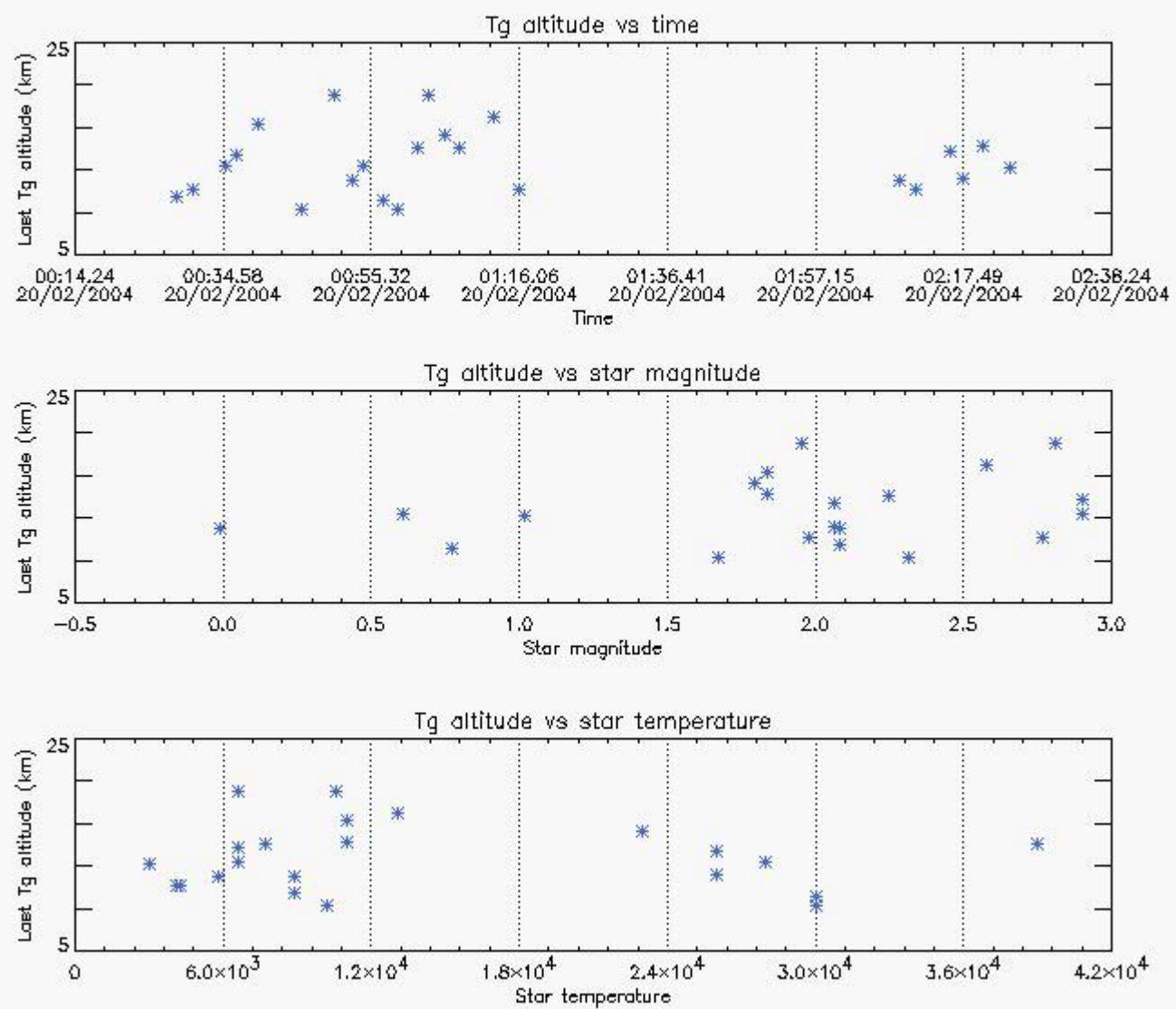
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.695	21.965
St. deviation:	3.1398	2.5461
Maximum:	20.051	26.929
Minimum:	9.2254	15.107
Number of data:	23.000	27.000

6.2 Plot for DARK limb products

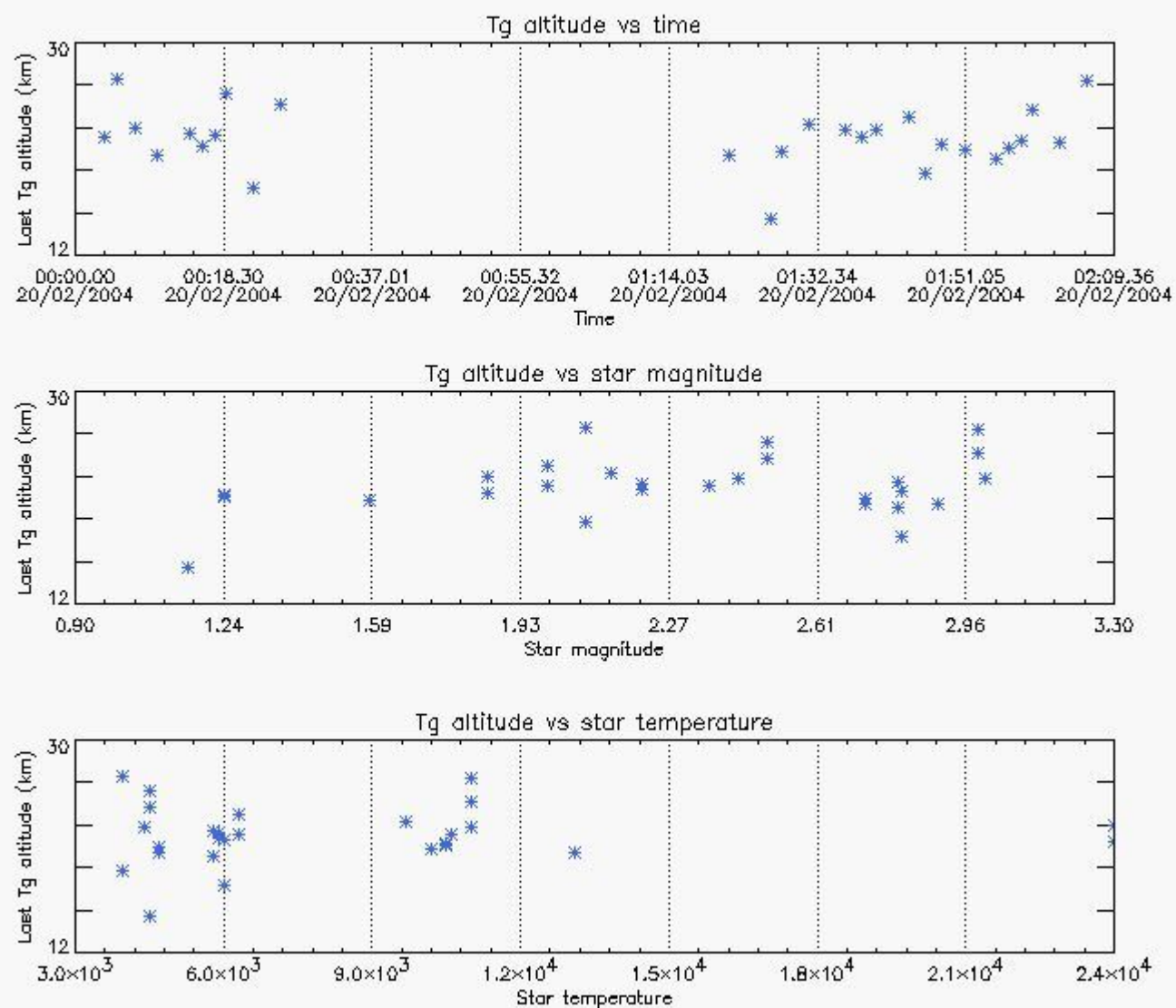
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost

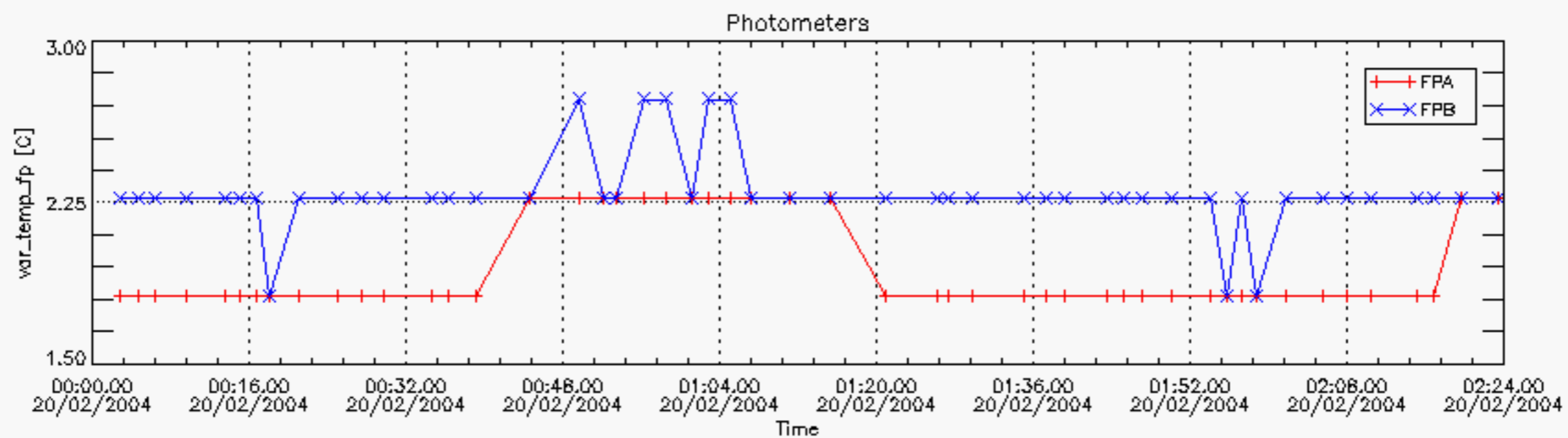
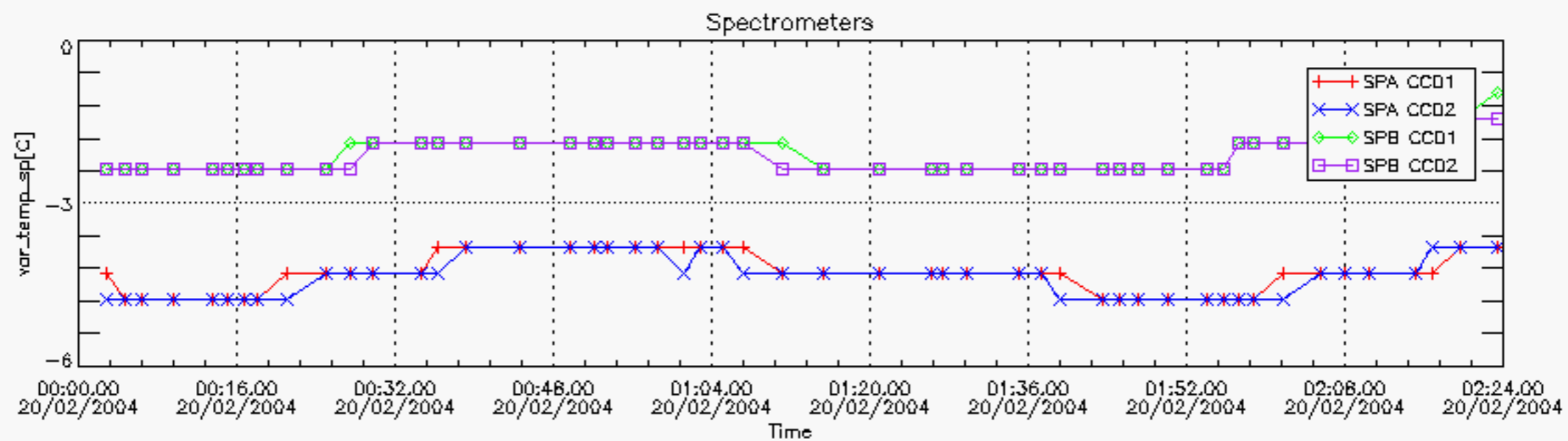


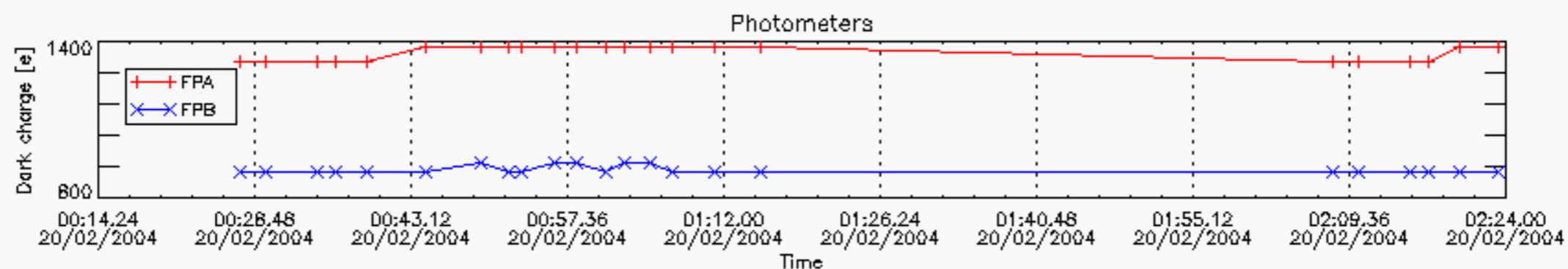
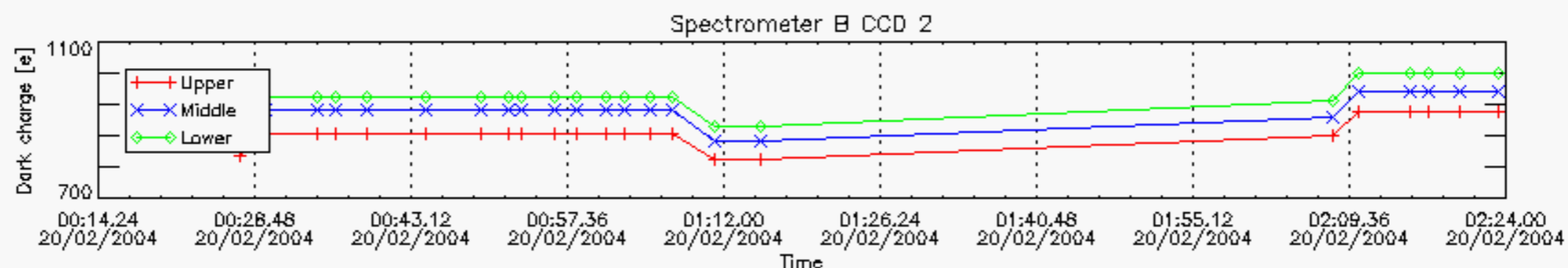
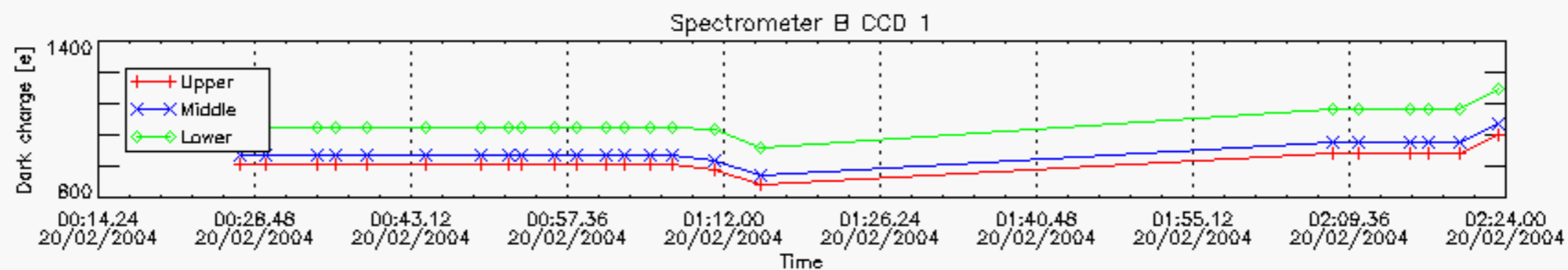
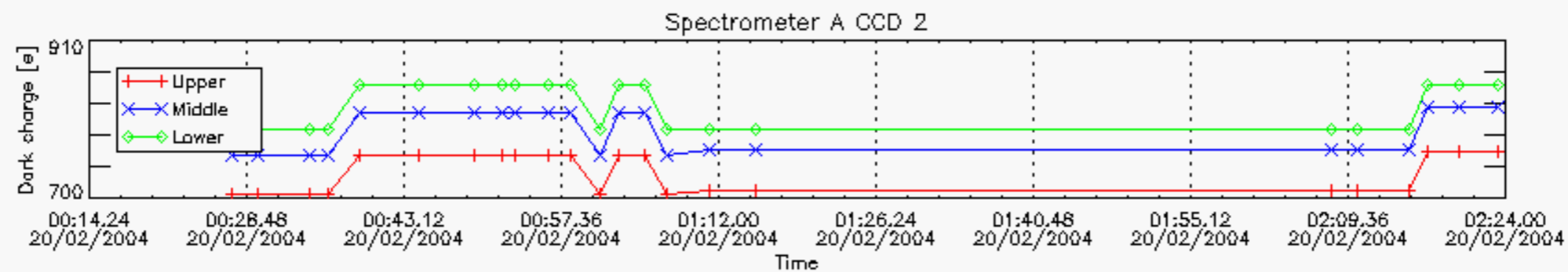
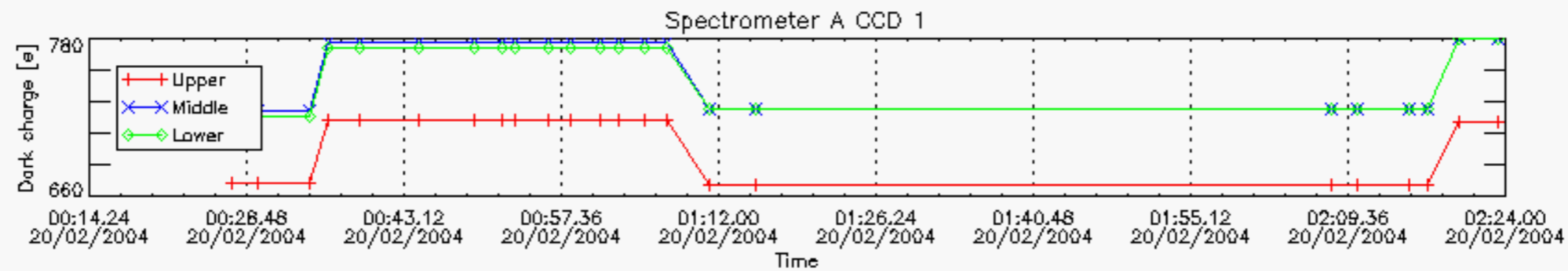
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

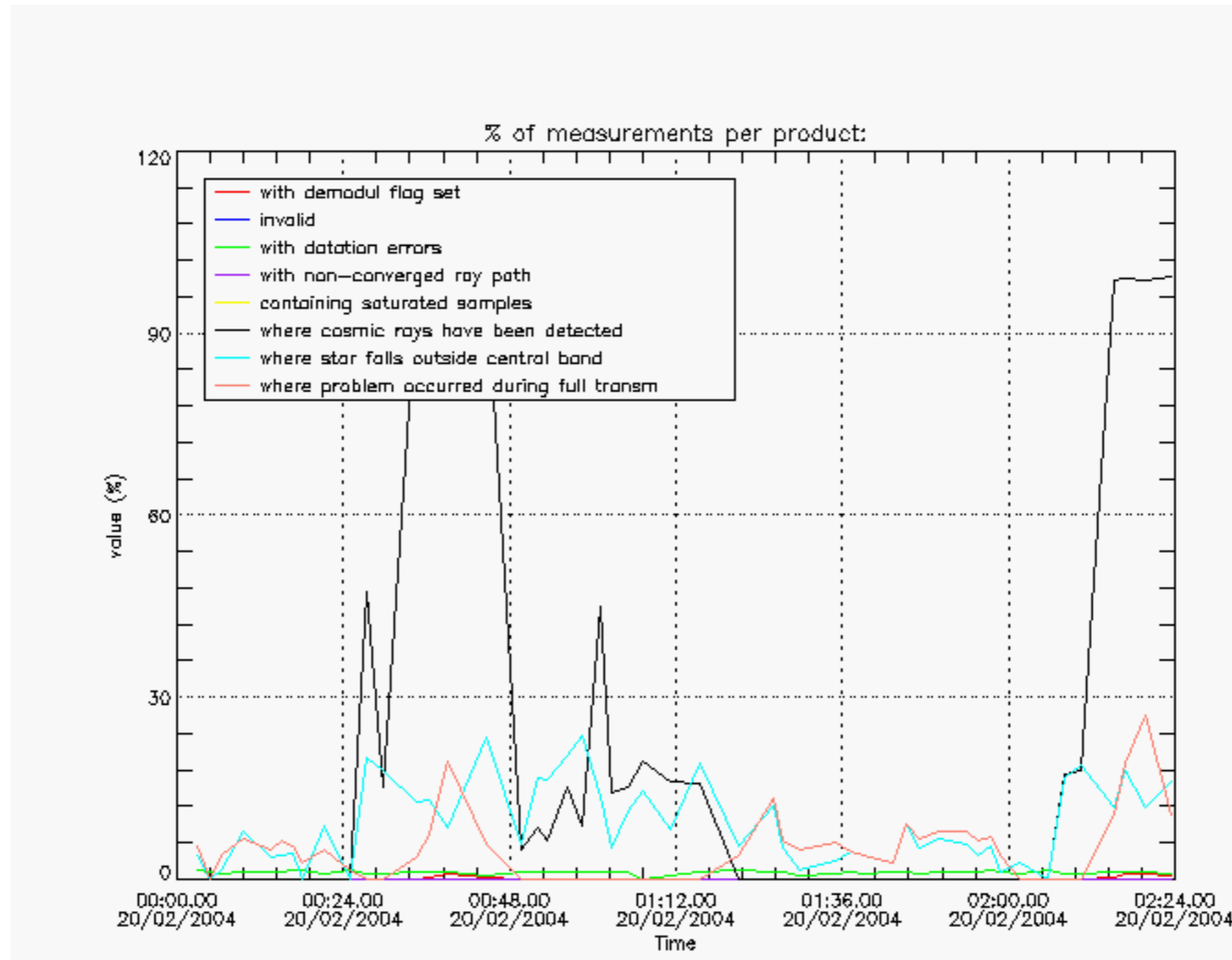
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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	1446.7	1460.8	1448.6
St. deviation:	5.9511	12.268	7.5535	13.295
Maximum:	1529.0	1657.0	1511.0	1519.0
Minimum:	1460.0	1434.0	1411.0	1375.0
Number of data:	28600.	28600.	34500.	34500.

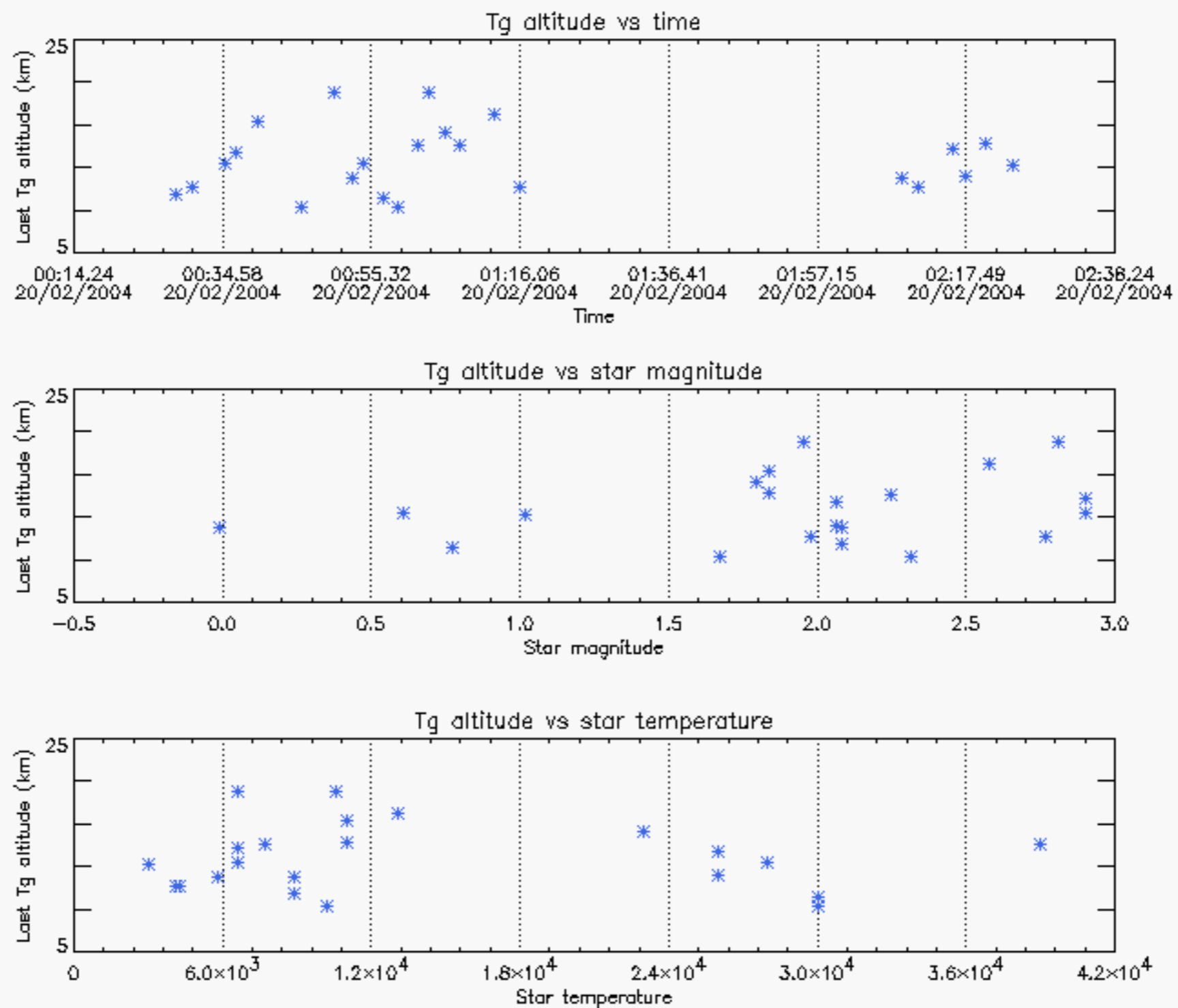




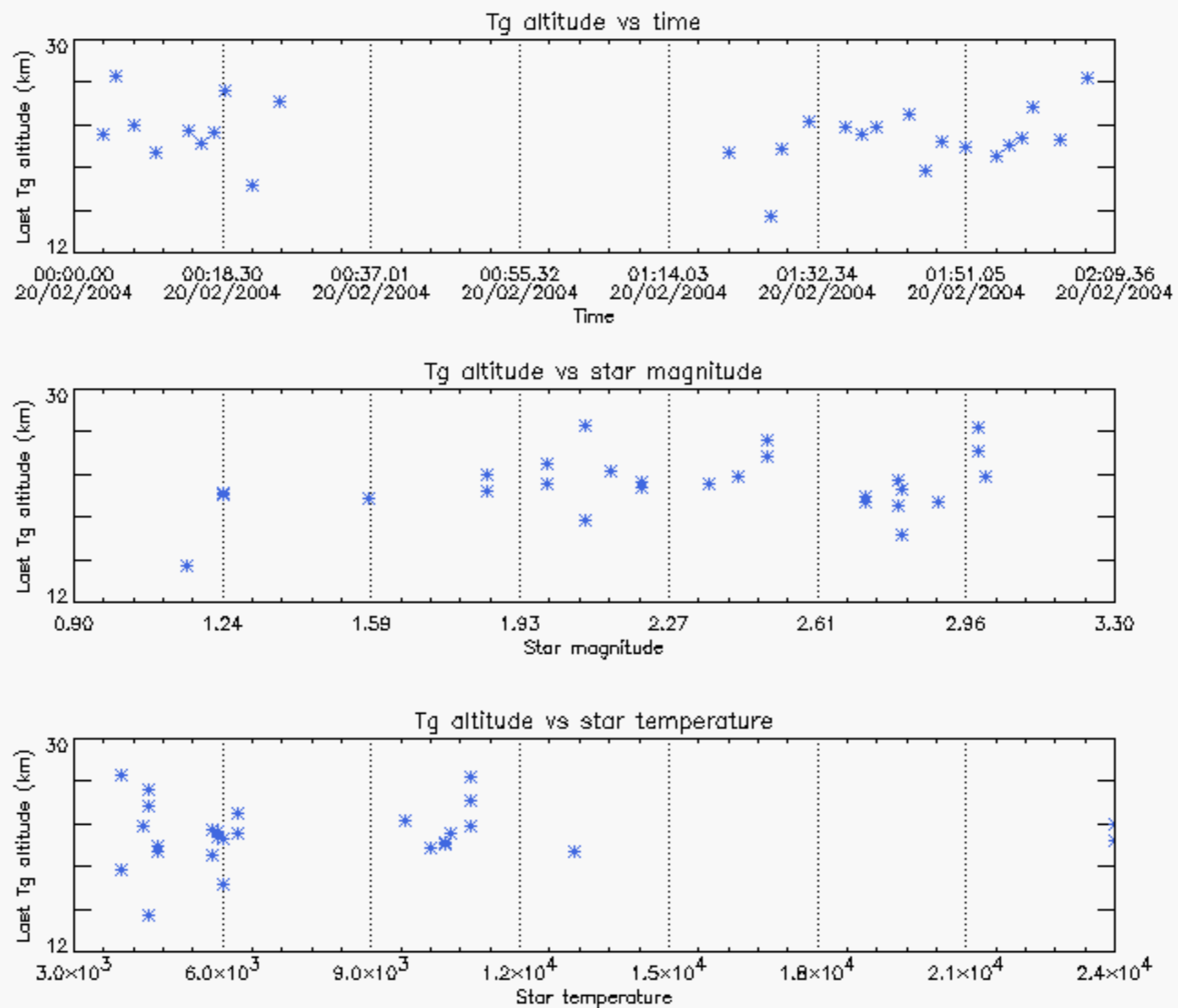




Tangent altitude at which the star is lost



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
 25; -219.4; 01-FEB-2004 07:22:11; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;10051
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26;	129.7;	08-FEB-2004	10:29:05;	Dark	;	42.5;	43;	Alp TrA	;	1.91;	4250;occ;	85;	0;	10154
27;	286.0;	08-FEB-2004	10:31:41;	Dark	;	58.5;	0;		;	0.00;	0;occ;	117;	0;	10154
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13;	-2215.7;	08-FEB-2004	11:30:36;	Bright;		37.0;	89;	5Alp Cep	;	2.45;	8000;occ;	74;	0;	10154
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16;	-1720.9;	08-FEB-2004	11:38:50;	Bright;		37.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	75;	0;	10154
17;	-1536.6;	08-FEB-2004	11:41:55;	Bright;		48.0;	133;	40Zet Her	;	2.81;	6000;occ;	96;	0;	10154
18;	-1339.3;	08-FEB-2004	11:45:12;	Bright;		79.5;	67;	5Alp CrB	;	2.22;	11000;occ;	159;	0;	10154
19;	-1198.7;	08-FEB-2004	11:47:33;	Dark	;	191.5;	83;		;	2.38;	11000;occ;	383;	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
22;	-488.2;	08-FEB-2004	11:59:23;	Dark	;	43.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	86;	0;	10154
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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
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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
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35	1126.4;	18-FEB-2004	17:13:43;	Dark	;	43.0;	34;	Gam2Vel	;	1.79;	23000;	occ;	86;	0;	10301
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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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25;	123.4;	28-FEB-2004 10:00:14;	Dark	;	79.5;	80;	7Del Sco	;	2.32;	30000;occ;	159;	0;	10440
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