

GOMOS Daily Report 27-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	29FEB2004 07:23:13
Data source version	<Any version>
Start time of products	27-FEB-2004 (27FEB2004 00:00:00)
Stop time of products	28-FEB-2004 (28FEB2004 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

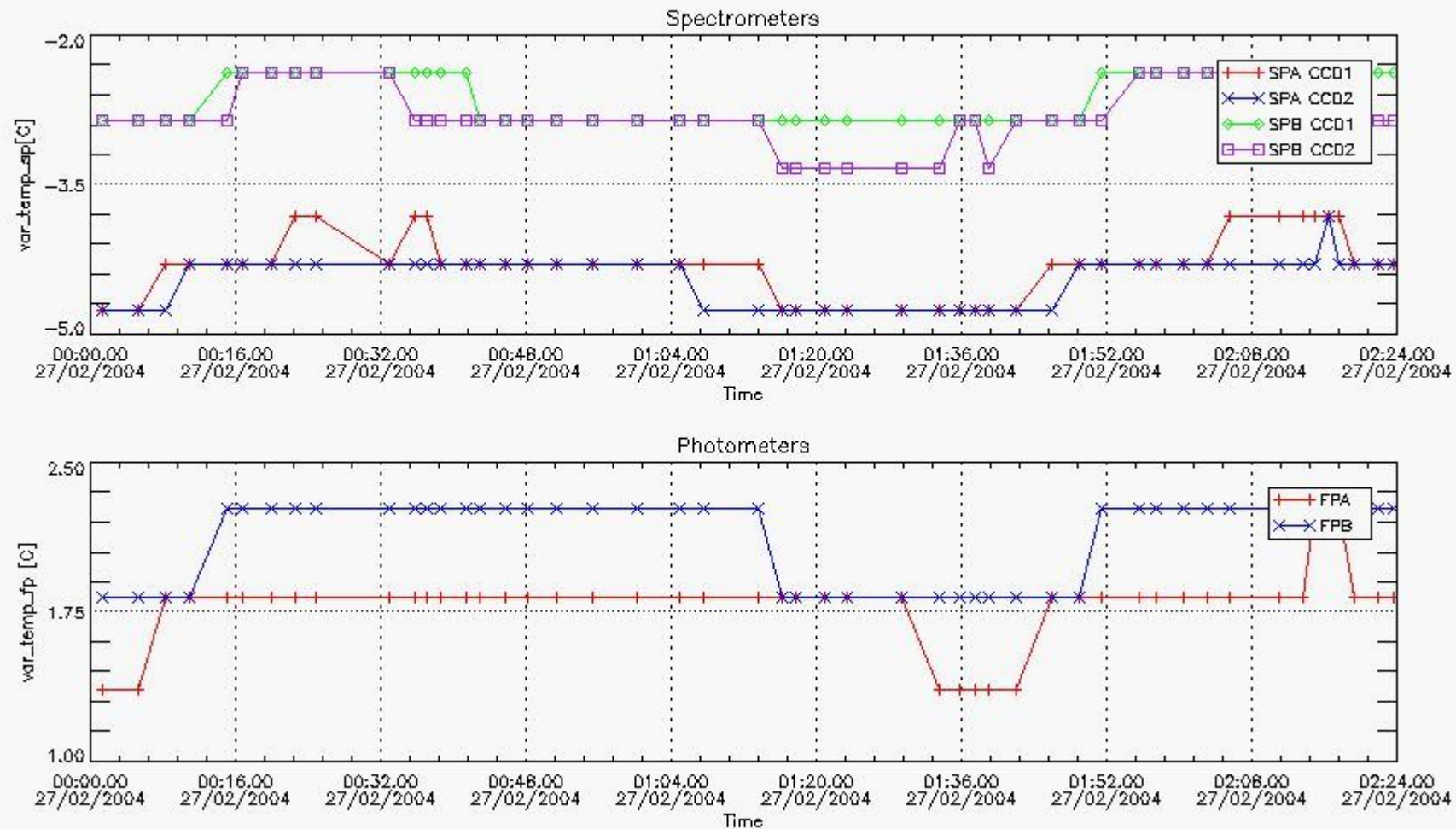
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040227_000122_000000742024_00345_10419_0016.N1	27-FEB-2004 00:01:22	Bright	73.500	133	40Zet Her	2.8070	6000.0	147	10419	No
GOM_TRA_1PNPDE20040227_000519_000000412024_00345_10419_0017.N1	27-FEB-2004 00:05:19	Bright	40.500	168	17Zet Aql	2.9860	11000.	81	10419	No
GOM_TRA_1PNPDE20040227_000821_000000672024_00345_10419_0018.N1	27-FEB-2004 00:08:21	Dark	66.500	59	55Alp Oph	2.0800	8900.0	133	10419	No
GOM_TRA_1PNPDE20040227_001049_000000642024_00345_10419_0019.N1	27-FEB-2004 00:10:49	Dark	63.500	126	60Bet Oph	2.7700	4250.0	127	10419	No
GOM_TRA_1PNPDE20040227_001502_000000472024_00345_10419_0020.N1	27-FEB-2004 00:15:02	Dark	47.000	155	41Pi Sgr	2.9000	6600.0	94	10419	No
GOM_TRA_1PNPDE20040227_001648_000000492024_00345_10419_0021.N1	27-FEB-2004 00:16:48	Dark	48.500	57	34Sig Sgr	2.0660	26000.	97	10419	No
GOM_TRA_1PNPDE20040227_001952_000000472024_00345_10419_0022.N1	27-FEB-2004 00:19:52	Dark	46.500	38	20Eps Sgr	1.8360	11000.	93	10419	No
GOM_TRA_1PNPDE20040227_002234_000000472024_00345_10419_0023.N1	27-FEB-2004 00:22:34	Dark	47.000	25	35Lam Sco	1.6200	28000.	94	10419	No
GOM_TRA_1PNPDE20040227_002453_000000842024_00345_10419_0024.N1	27-FEB-2004 00:24:53	Dark	84.000	16	21Alp Sco	1.0200	3000.0	168	10419	No
GOM_TRA_1PNPDE20040227_003301_000000482024_00346_10420_0026.N1	27-FEB-2004 00:33:01	Dark	48.000	4	Alp1Cen	-0.010000	5800.0	96	10420	No
GOM_TRA_1PNPDE20040227_003547_000000422024_00346_10420_0028.N1	27-FEB-2004 00:35:47	Dark	41.500	112	Alp Mus	2.6880	26000.	83	10420	No
GOM_TRA_1PNPDE20040227_003700_000000452024_00346_10420_0029.N1	27-FEB-2004 00:37:00	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	10420	No
GOM_TRA_1PNPDE20040227_003837_000000412024_00346_10420_0030.N1	27-FEB-2004 00:38:37	Dark	40.500	29	Bet Car	1.6720	10200.	81	10420	No
GOM_TRA_1PNPDE20040227_004123_000000442024_00346_10420_0031.N1	27-FEB-2004 00:41:23	Dark	44.000	71	lot Car	2.2460	7700.0	88	10420	No
GOM_TRA_1PNPDE20040227_004255_000000392024_00346_10420_0032.N1	27-FEB-2004 00:42:55	Dark	39.000	46	Del Vel	1.9540	10600.	78	10420	No
GOM_TRA_1PNPDE20040227_004546_000000462024_00346_10420_0033.N1	27-FEB-2004 00:45:46	Dark	46.000	65	Lam Vel	2.2040	4400.0	92	10420	No
GOM_TRA_1PNPDE20040227_004807_000000742024_00346_10420_0000.N1	27-FEB-2004 00:48:07	Dark	74.000	106	9Bet Crv	2.6480	5600.0	148	10420	No
GOM_TRA_1PNPDE20040227_005123_000000702024_00346_10420_0001.N1	27-FEB-2004 00:51:23	Dark	70.000	100	4Gam Crv	2.5800	13100.	140	10420	No
GOM_TRA_1PNPDE20040227_005520_000000472024_00346_10420_0002.N1	27-FEB-2004 00:55:20	Dark	46.500	48	30Alp Hya	1.9770	4100.0	93	10420	No
GOM_TRA_1PNPDE20040227_010018_000000422024_00346_10420_0003.N1	27-FEB-2004 01:00:18	Bright	42.000	8	10Alp CMi	0.40000	6500.0	84	10420	No
GOM_TRA_1PNPDE20040227_010501_000000432024_00346_10420_0004.N1	27-FEB-2004 01:05:01	Bright	42.500	166	17Eps Leo	2.9800	6000.0	85	10420	No
GOM_TRA_1PNPDE20040227_010737_000000392024_00346_10420_0005.N1	27-FEB-2004 01:07:37	Bright	38.500	24	66Alp Gem	1.5800	10200.	77	10420	No
GOM_TRA_1PNPDE20040227_011335_000000462024_00346_10420_0006.N1	27-FEB-2004 01:13:35	Bright	46.000	174	52Psi UMa	3.0040	4400.0	92	10420	No
GOM_TRA_1PNPDE20040227_011612_000000422024_00346_10420_0007.N1	27-FEB-2004 01:16:12	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	10420	No
GOM_TRA_1PNPDE20040227_011739_000000492024_00346_10420_0008.N1	27-FEB-2004 01:17:39	Bright	49.000	87	64Gam UMa	2.4330	11000.	98	10420	No
GOM_TRA_1PNPDE20040227_012101_000000532024_00346_10420_0009.N1	27-FEB-2004 01:21:01	Bright	52.500	32	77Eps UMa	1.7630	11000.	105	10420	No
GOM_TRA_1PNPDE20040227_012322_000000392024_00346_10420_0010.N1	27-FEB-2004 01:23:22	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	10420	No
GOM_TRA_1PNPDE20040227_012921_000000462024_00346_10420_0011.N1	27-FEB-2004 01:29:21	Bright	46.000	119	14Eta Dra	2.7270	4700.0	92	10420	No
GOM_TRA_1PNPDE20040227_013338_000000452024_00346_10420_0012.N1	27-FEB-2004 01:33:38	Bright	45.000	130	23Bet Dra	2.7990	5800.0	90	10420	No
GOM_TRA_1PNPDE20040227_013553_000000372024_00346_10420_0013.N1	27-FEB-2004 01:35:53	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	10420	No
GOM_TRA_1PNPDE20040227_013727_000000392024_00346_10420_0014.N1	27-FEB-2004 01:37:27	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	10420	No
GOM_TRA_1PNPDE20040227_013859_000000382024_00346_10420_0015.N1	27-FEB-2004 01:38:59	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	10420	No
GOM_TRA_1PNPDE20040227_014158_000000752024_00346_10420_0016.N1	27-FEB-2004 01:41:58	Bright	75.000	133	40Zet Her	2.8070	6000.0	150	10420	No
GOM_TRA_1PNPDE20040227_014555_000000392024_00346_10420_0017.N1	27-FEB-2004 01:45:55	Bright	38.500	168	17Zet Aql	2.9860	11000.	77	10420	No
GOM_TRA_1PNPDE20040227_014857_000000632024_00346_10420_0018.N1	27-FEB-2004 01:48:57	Dark	62.500	59	55Alp Oph	2.0800	8900.0	125	10420	No
GOM_TRA_1PNPDE20040227_015126_000000662024_00346_10420_0019.N1	27-FEB-2004 01:51:26	Dark	65.500	126	60Bet Oph	2.7700	4250.0	131	10420	No
GOM_TRA_1PNPDE20040227_015539_000000442024_00346_10420_0020.N1	27-FEB-2004 01:55:39	Dark	44.000	155	41Pi Sgr	2.9000	6600.0	88	10420	No
GOM_TRA_1PNPDE20040227_015726_000000472024_00346_10420_0021.N1	27-FEB-2004 01:57:26	Dark	47.000	57	34Sig Sgr	2.0660	26000.	94	10420	No
GOM_TRA_1PNPDE20040227_020028_000000472024_00346_10420_0022.N1	27-FEB-2004 02:00:28	Dark	46.500	38	20Eps Sgr	1.8360	11000.	93	10420	No
GOM_TRA_1PNPDE20040227_020310_000000492024_00346_10420_0023.N1	27-FEB-2004 02:03:10	Dark	48.500	25	35Lam Sco	1.6200	28000.	97	10420	No
GOM_TRA_1PNPDE20040227_020530_000000702024_00346_10420_0024.N1	27-FEB-2004 02:05:30	Dark	69.500	16	21Alp Sco	1.0200	3000.0	139	10420	No
GOM_TRA_1PNPDE20040227_021059_000000522024_00347_10421_0025.N1	27-FEB-2004 02:10:59	Dark	51.500	131	Gam Lup	2.8000	26000.	103	10421	No
GOM_TRA_1PNPDE20040227_021336_000000462024_00347_10421_0026.N1	27-FEB-2004 02:13:36	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	10421	No
GOM_TRA_1PNPDE20040227_021456_000000562024_00347_10421_0027.N1	27-FEB-2004 02:14:56	Dark	55.500	10	Bet Cen	0.61000	28000.	111	10421	No
GOM_TRA_1PNPDE20040227_021623_000000402024_00347_10421_0028.N1	27-FEB-2004 02:16:23	Dark	39.500	112	Alp Mus	2.6880	26000.	79	10421	No
GOM_TRA_1PNPDE20040227_021737_000000552024_00347_10421_0029.N1	27-FEB-2004 02:17:37	Dark	55.000	12	Alp1Cru	0.77500	30000.	110	10421	No
GOM_TRA_1PNPDE20040227_021912_000000402024_00347_10421_0030.N1	27-FEB-2004 02:19:12	Dark	39.500	29	Bet Car	1.6720	10200.	79	10421	No
GOM_TRA_1PNPDE20040227_022200_000000392024_00347_10421_0031.N1	27-FEB-2004 02:22:00	Dark	39.000	71	lot Car	2.2460	7700.0	78	10421	No
GOM_TRA_1PNPDE20040227_022332_000000392024_00347_10421_0032.N1	27-FEB-2004 02:23:32	Dark	39.000	46	Del Vel	1.9540	10600.	78	10421	No

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



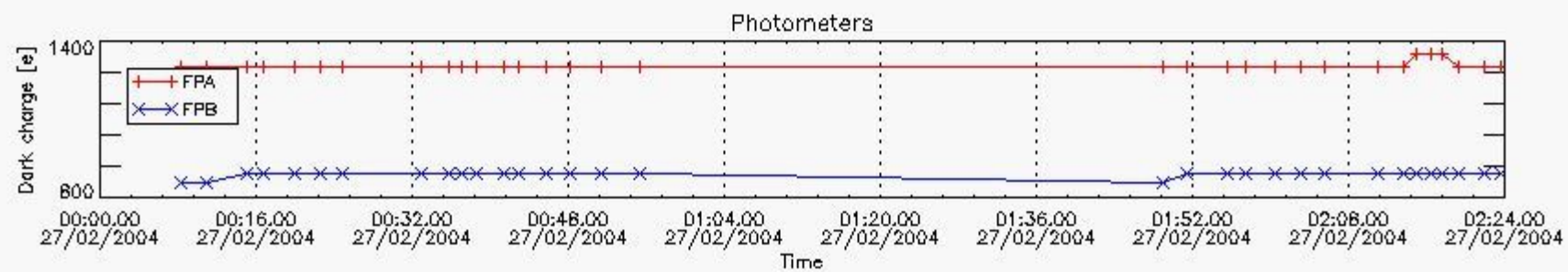
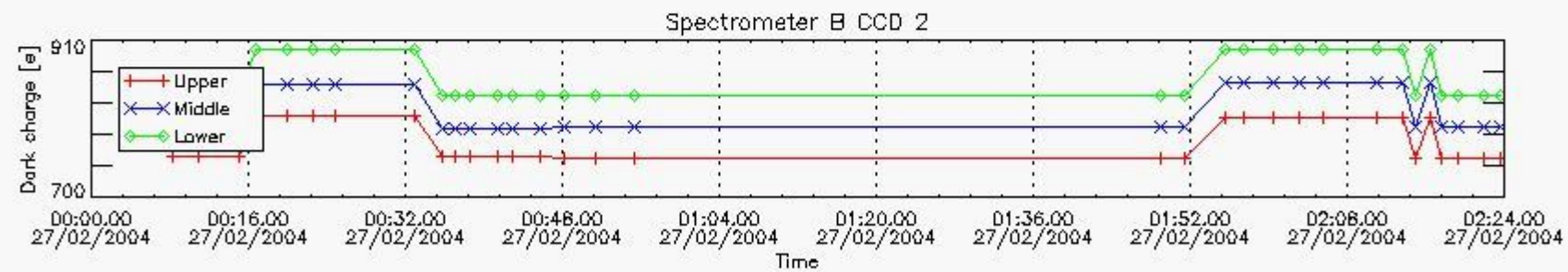
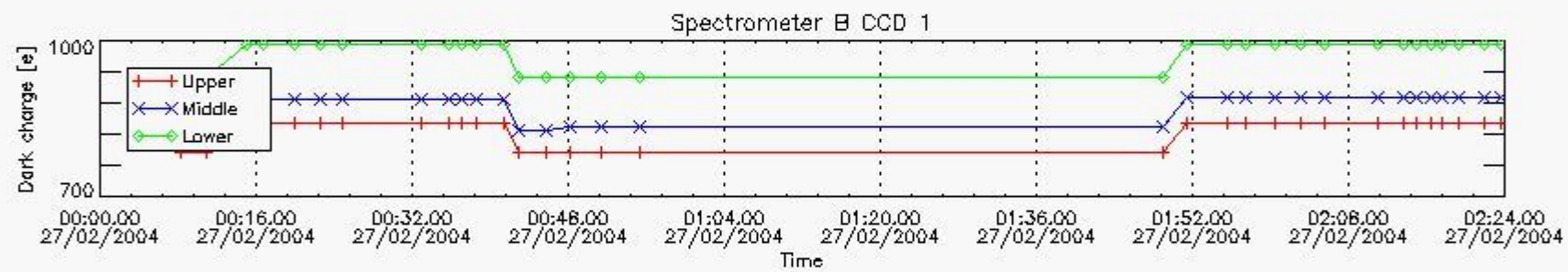
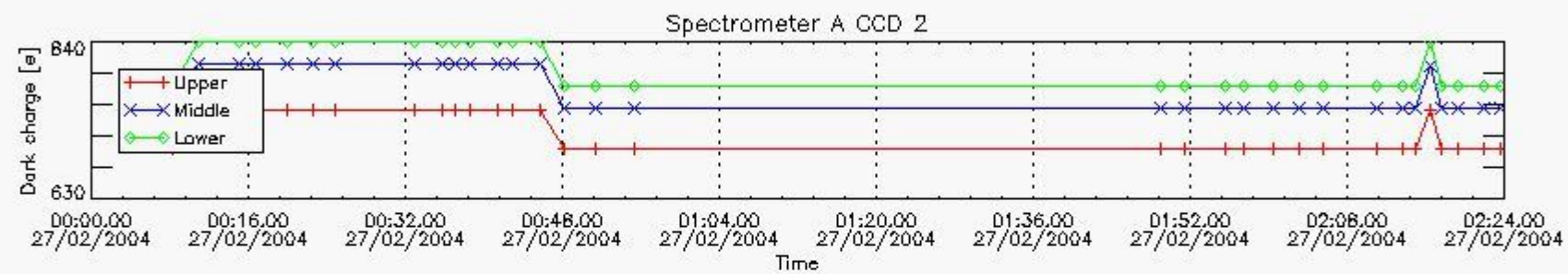
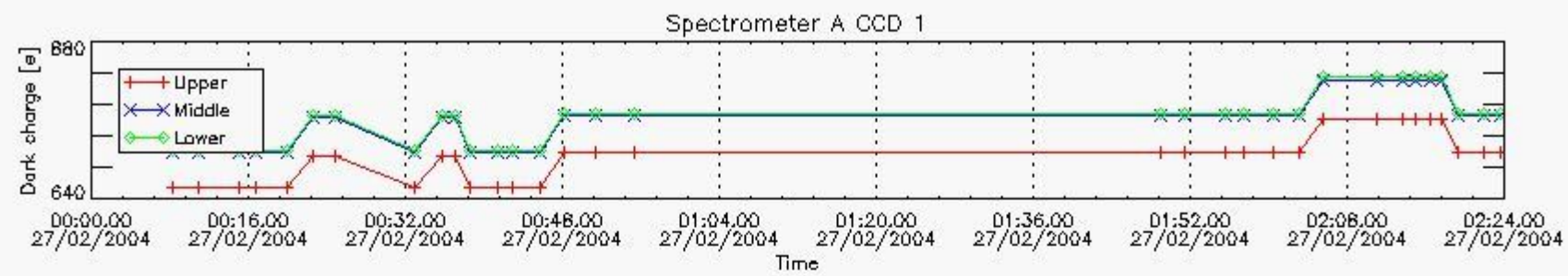
4. Overview of dark signal processing per product

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

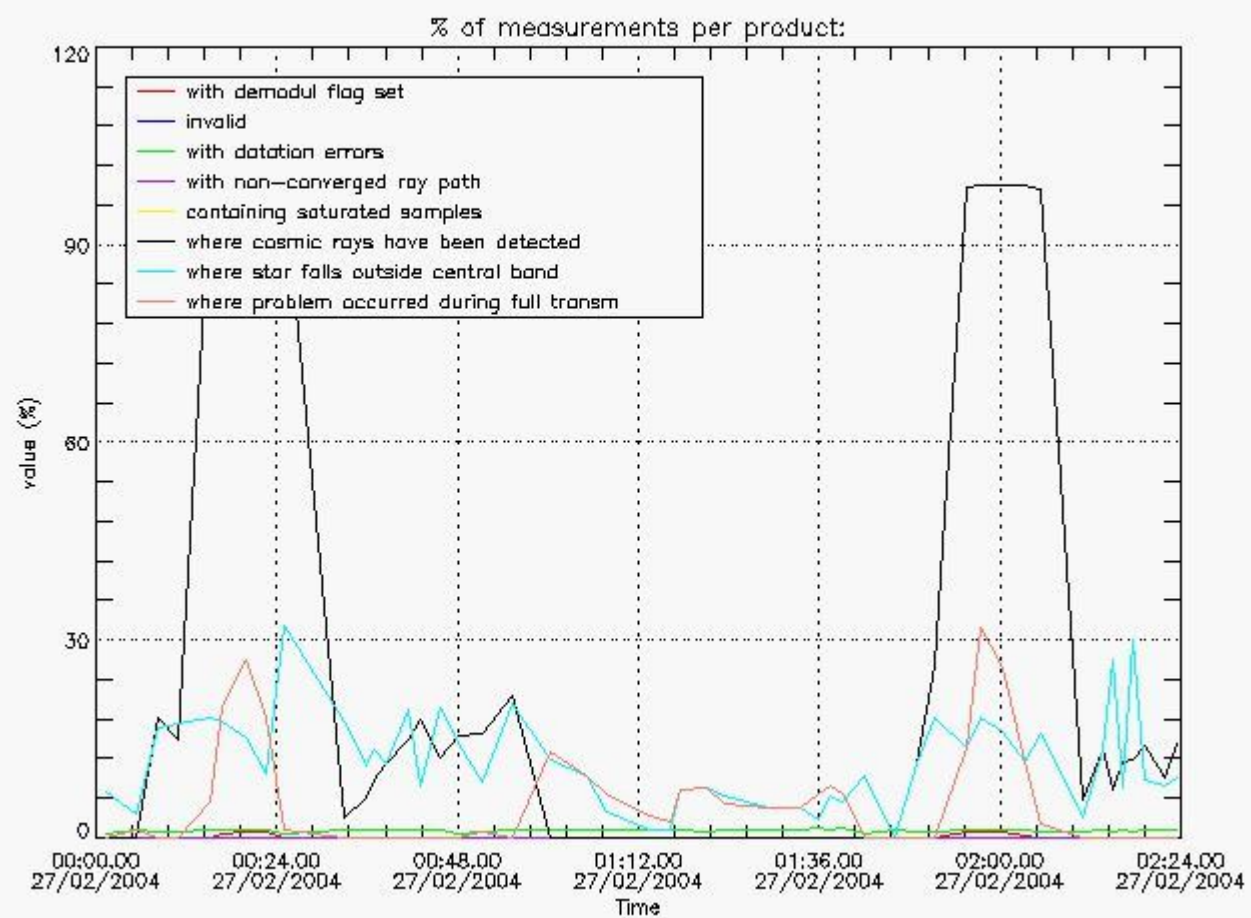


5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.4898 %
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



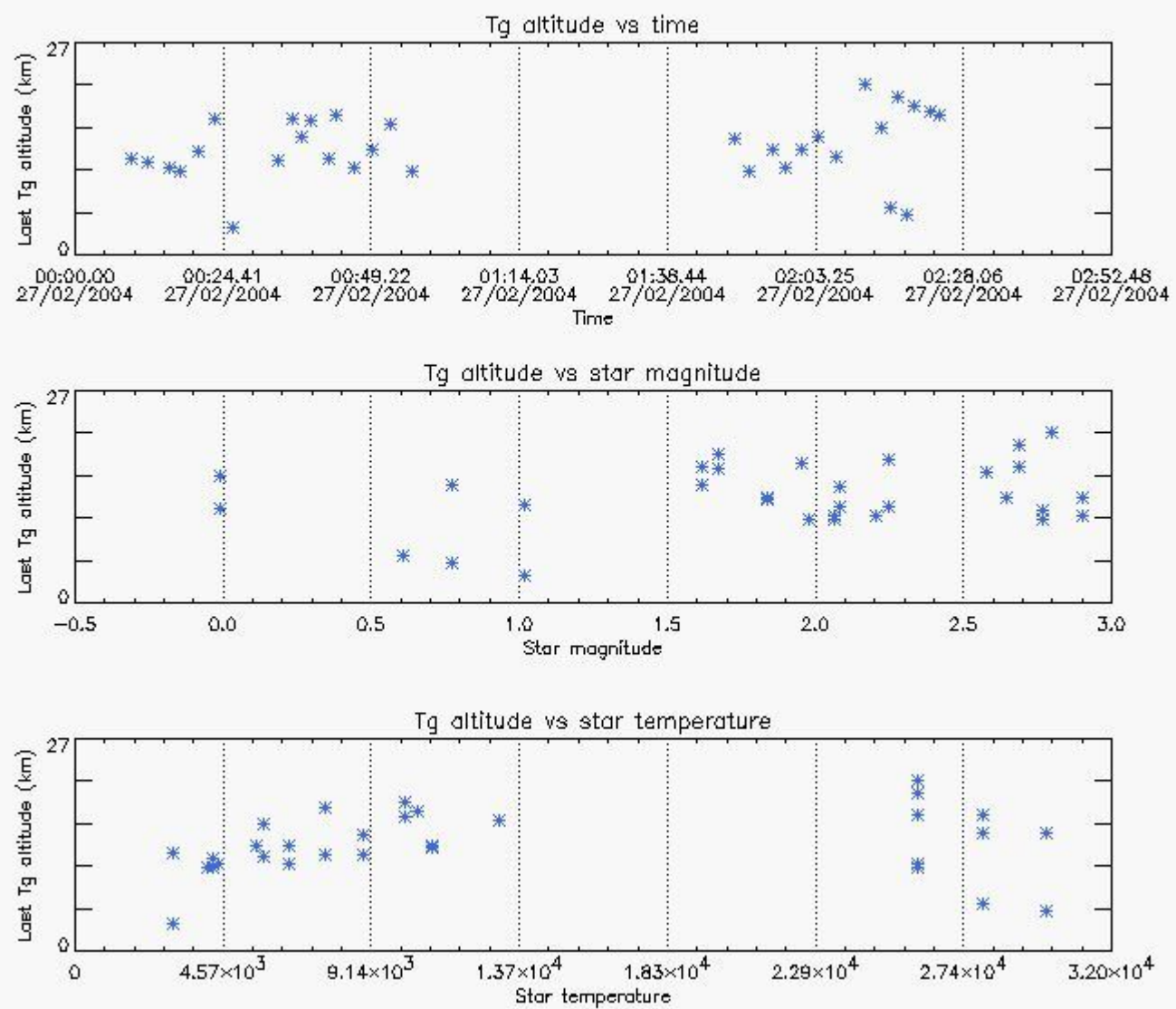
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.667	20.535
St. deviation:	4.1833	2.7480
Maximum:	21.613	26.558
Minimum:	3.5297	14.468
Number of data:	32.000	17.000

6.2 Plot for DARK limb products

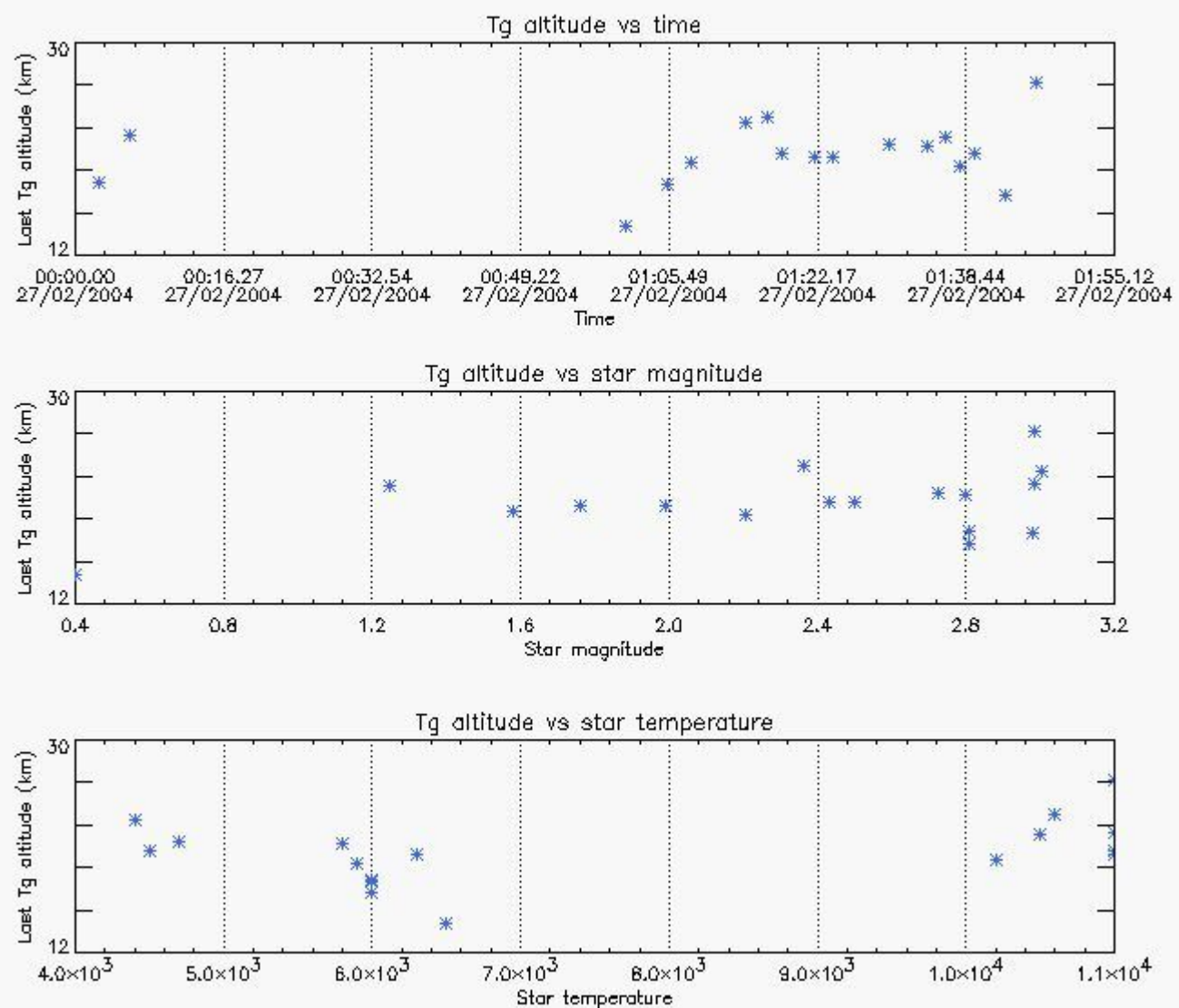
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



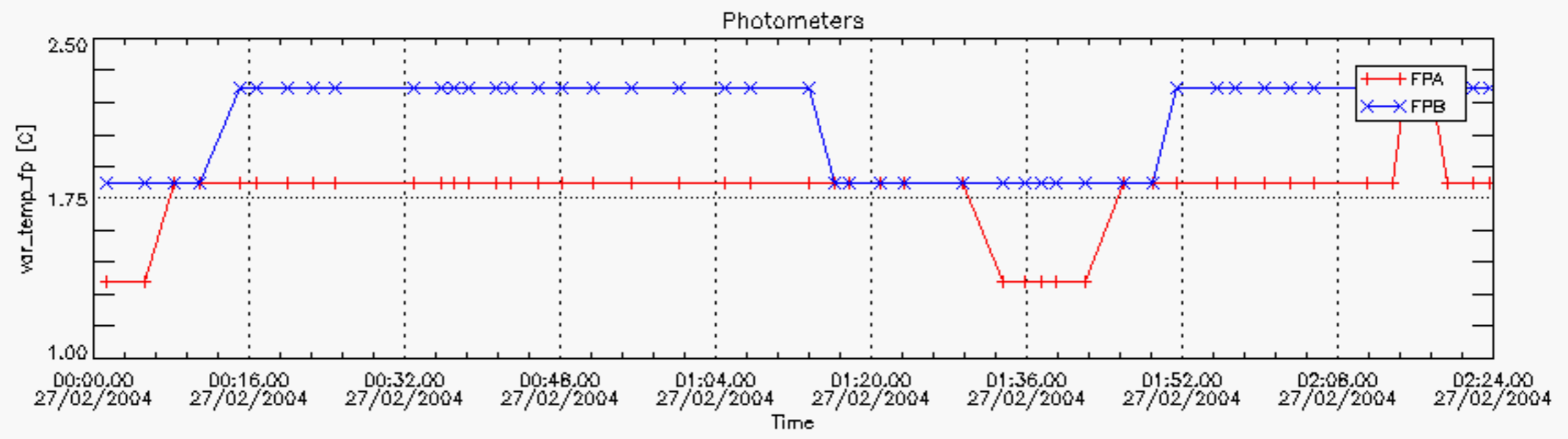
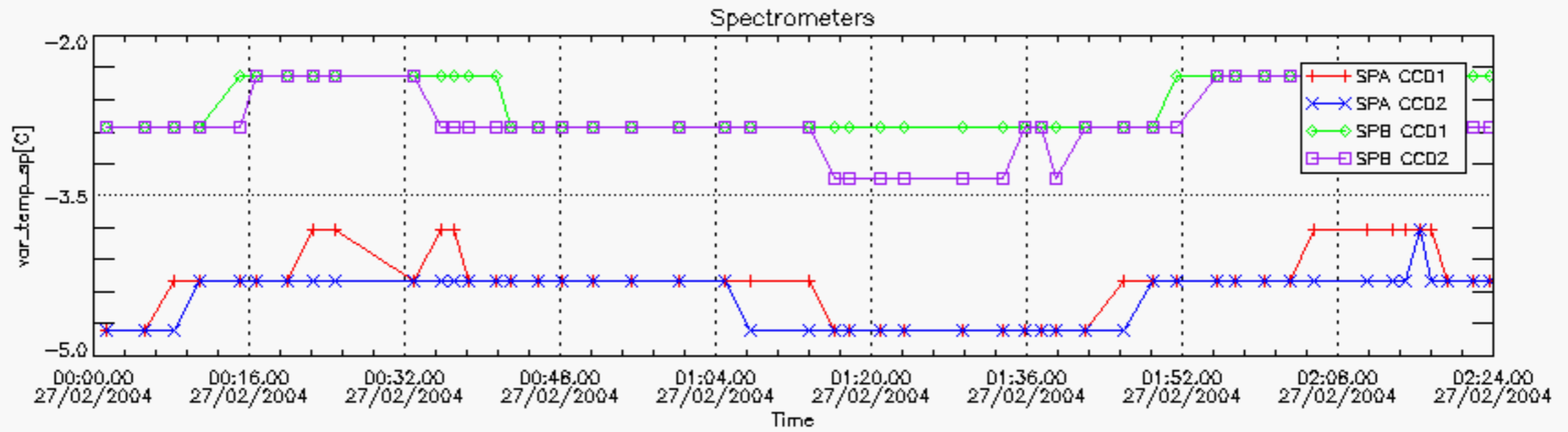
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

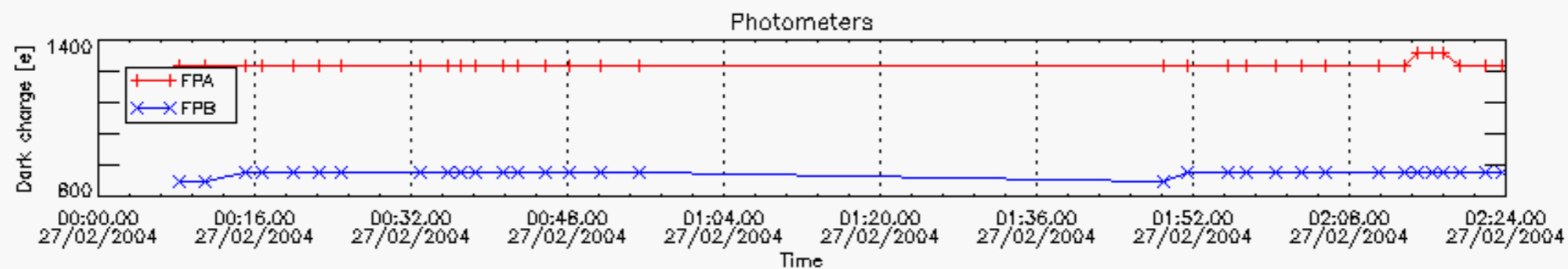
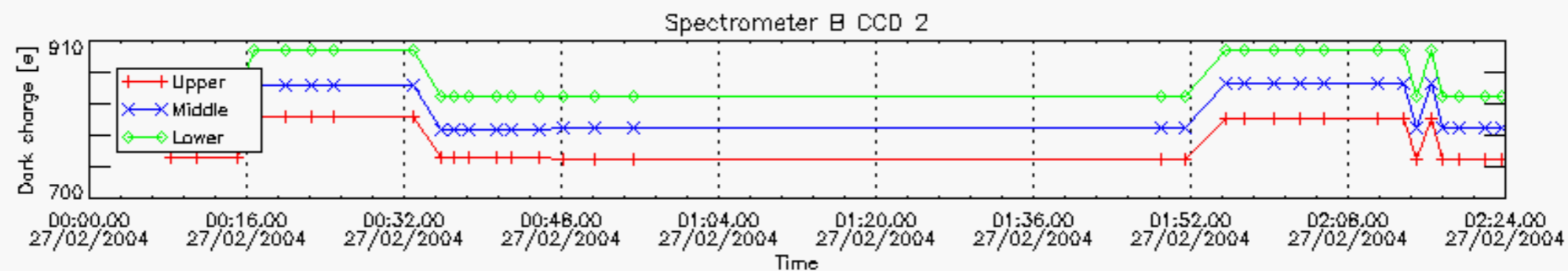
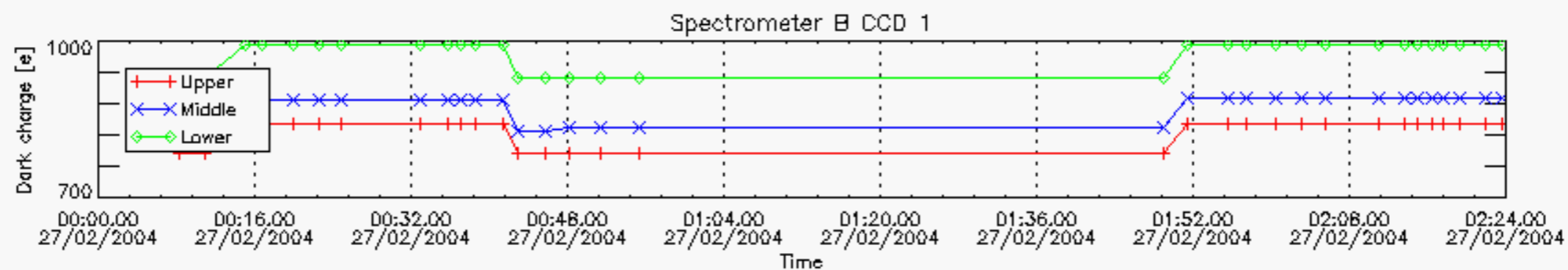
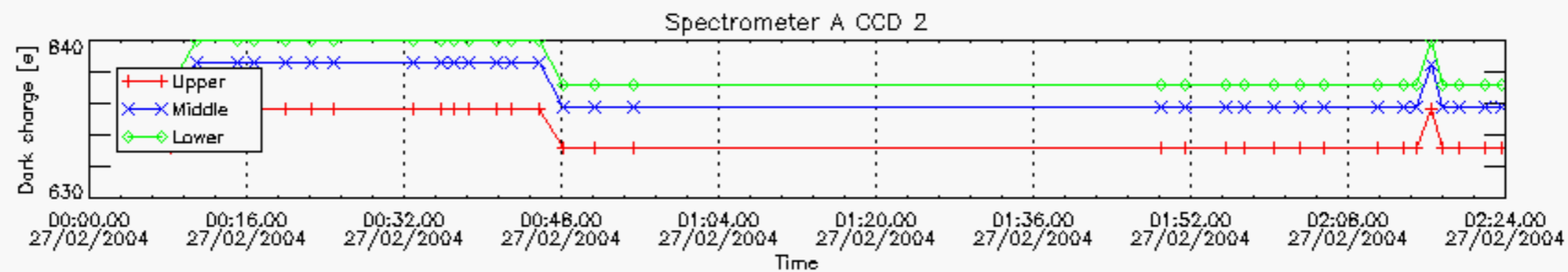
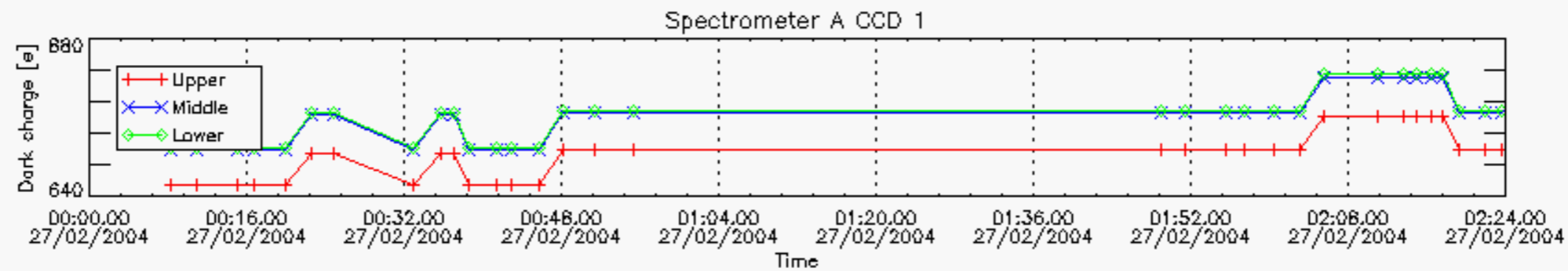
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

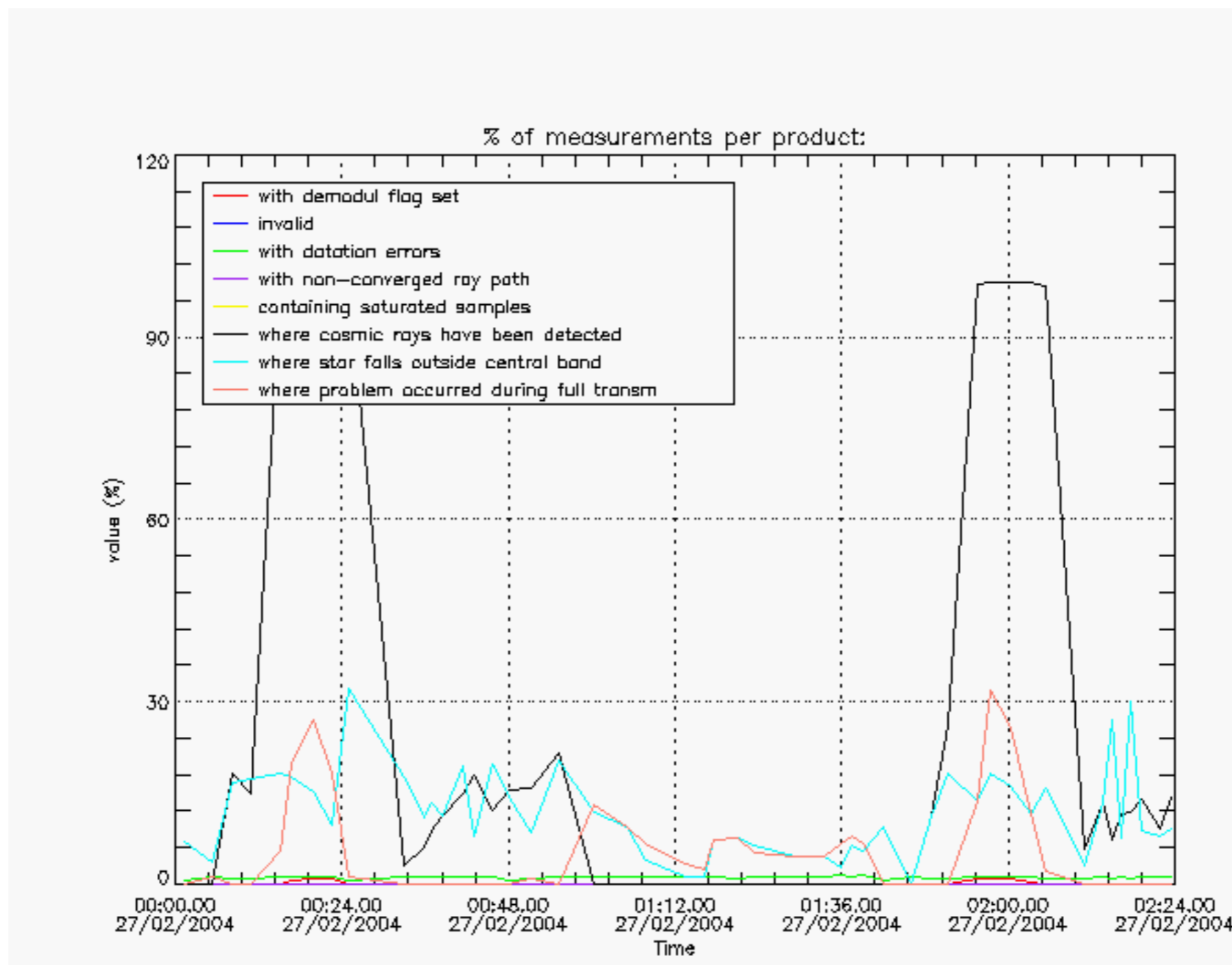
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.4	1447.7	1461.4	1448.4
St. deviation:	5.0888	5.9652	7.2143	8.3490
Maximum:	1626.0	1651.0	1507.0	1498.0
Minimum:	1440.0	1427.0	1418.0	1402.0
Number of data:	40100.	40100.	20750.	20750.



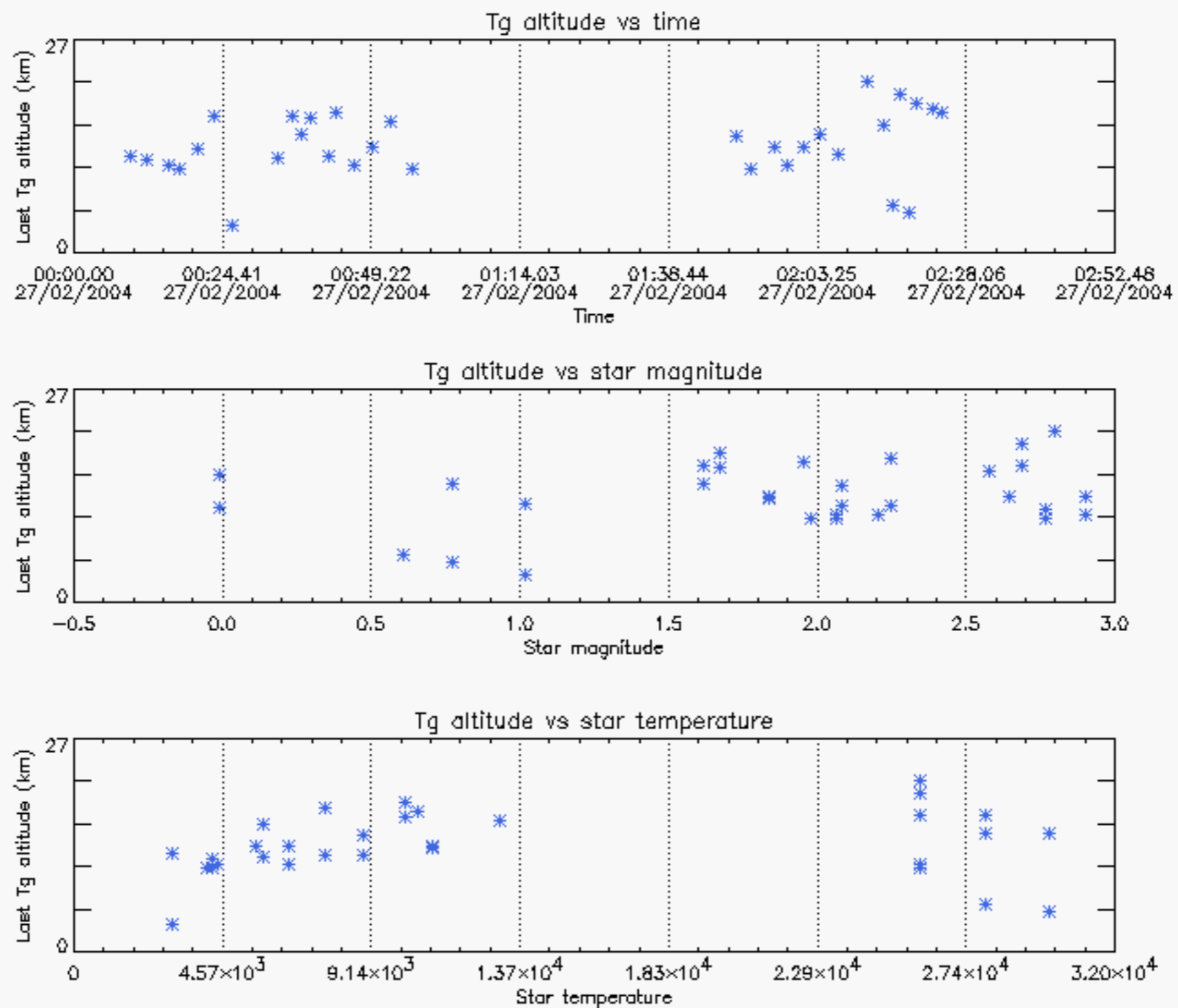




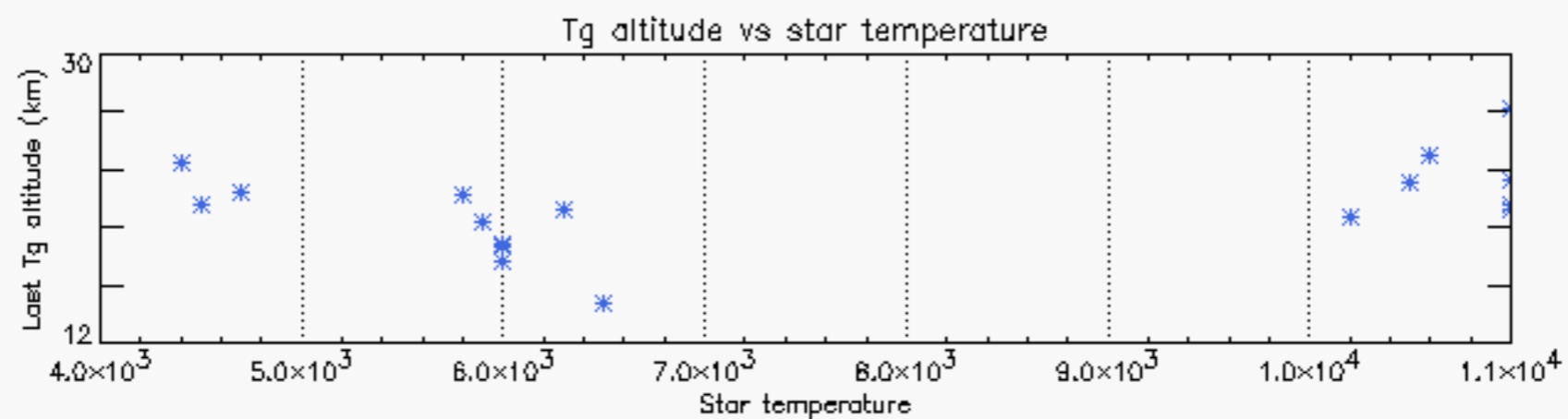
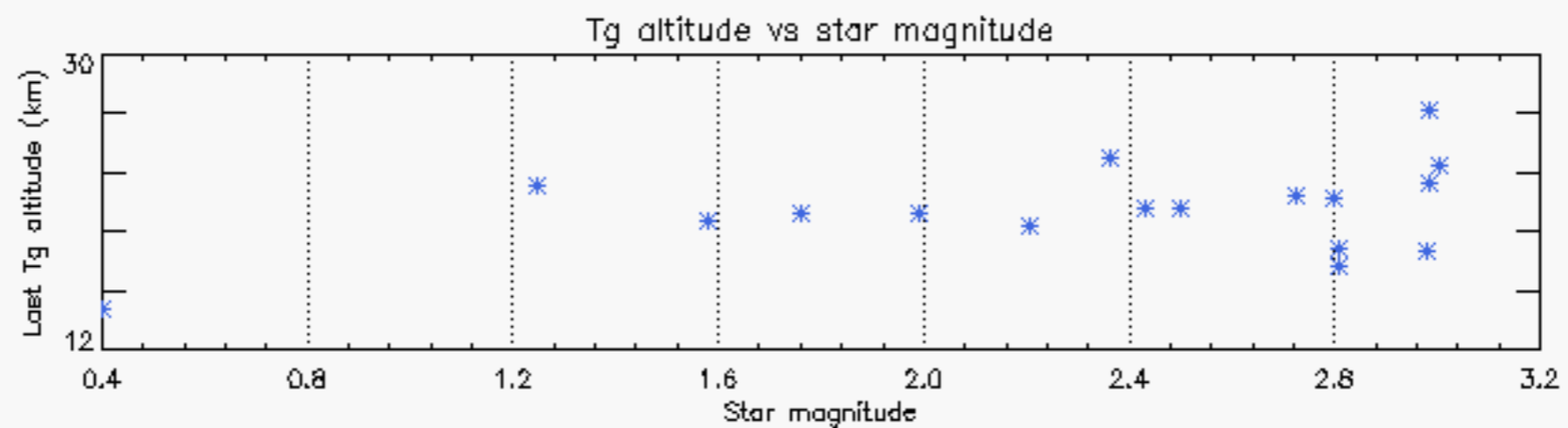
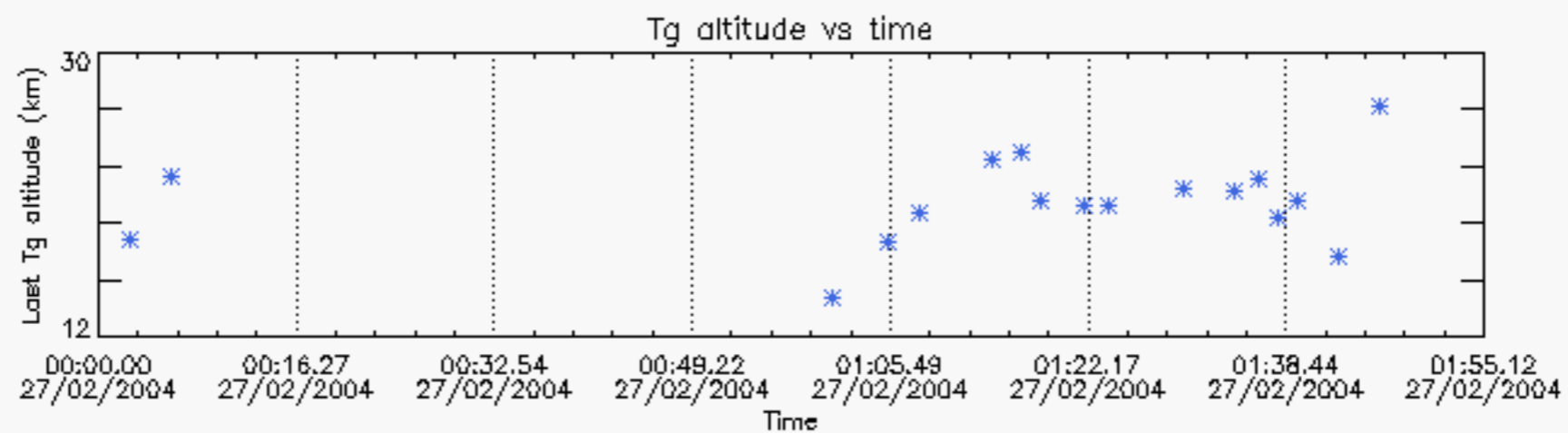




Tangent altitude at which the star is lost



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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11;	-2431.2;	03-FEB-2004	12:24:29;	Bright;		37.5;	60;	7Bet UMi	;	2.08;	3950;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
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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22;	-323.6;	03-FEB-2004	12:59:37;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;occ;	83;	0;	10083
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24;	-93.8;	03-FEB-2004	13:03:27;	Dark	;	44.5;	131;	Gam Lup	;	2.80;	26000;occ;	89;	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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32;	1210.5;	03-FEB-2004	13:25:11;	Dark	;	38.5;	70;	Zet Pup	;	2.25;	39000;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
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13;	-2842.9;	06-FEB-2004	17:25:10;	Bright;		49.0;	82;	48Bet UMa	;	2.37;	10600;occ;	98;	0;	10129
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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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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;	-123.3;	18-FEB-2004	20:14:05;	Dark	;	41.5;	147;	Alp Ara	;	2.88;	26000;occ;	83;	0;	10302
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22; -967.5; 22-FEB-2004 21:14:44; Dark ; 60.5; 126; 60Bet Oph ; 2.77; 4250;occ; 121; 0;10360
23; -691.1; 22-FEB-2004 21:19:21; Dark ; 42.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 85; 0;10360
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26;	-261.9;	22-FEB-2004	21:26:30;	Dark	;	46.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	93;	0;	10360
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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33;	622.7;	22-FEB-2004	21:41:15;	Dark	;	43.5;	12;	Alp1Cru		;	0.77;	30000;	occ;	87;	0;	10361
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