

GOMOS Daily Report 15-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 06:57:16
Data source version	<Any version>
Start time of products	15-FEB-2004 (15FEB2004 00:00:00)
Stop time of products	16-FEB-2004 (16FEB2004 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

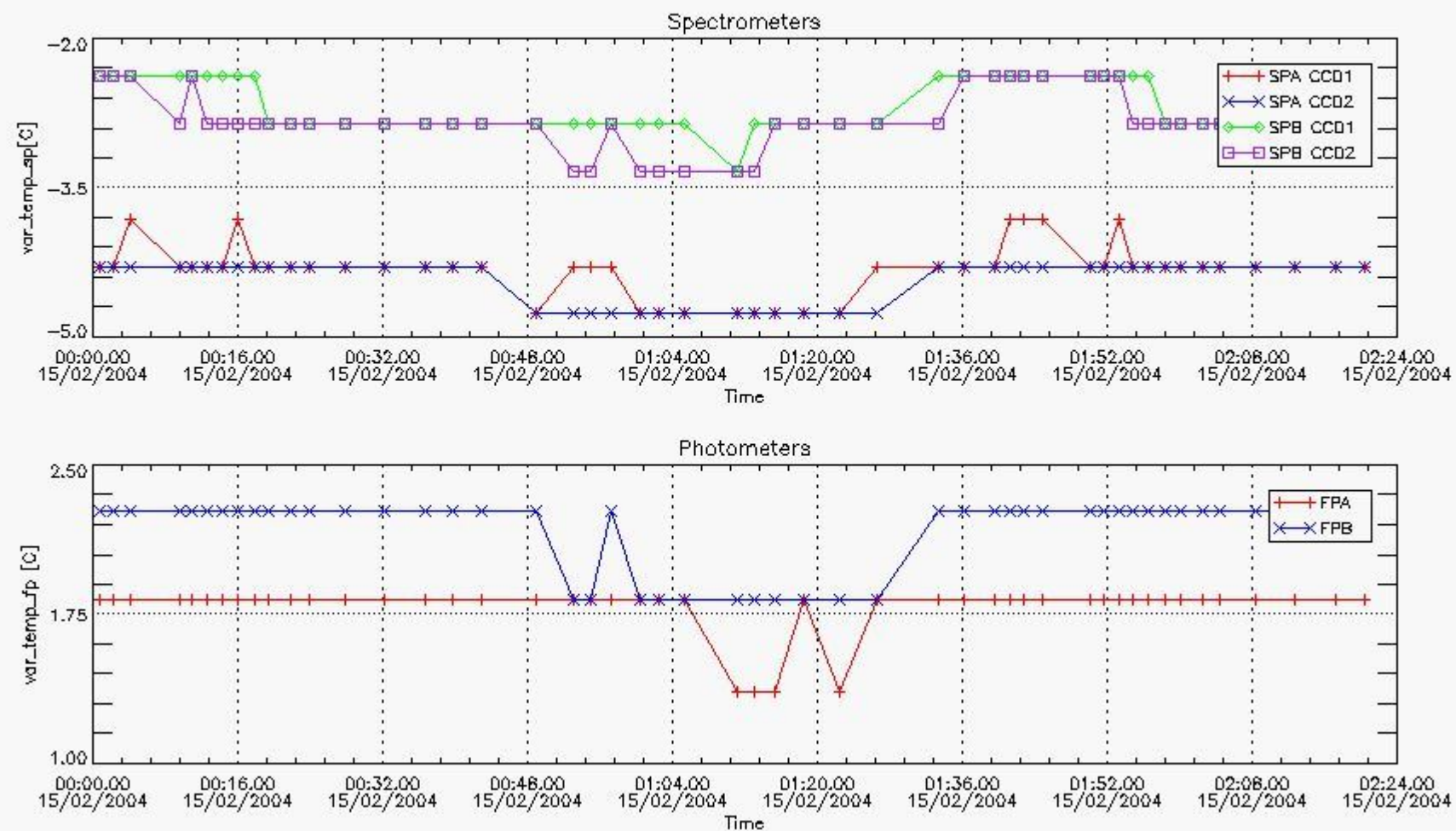
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040215_000043_000000422024_00173_10247_0023.N1	15-FEB-2004 00:00:43	Dark	41.500	147	Alp Ara	2.8770	26000.	83	10247	No
GOM_TRA_1PNPDE20040215_000210_000000412024_00173_10247_0024.N1	15-FEB-2004 00:02:10	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	10247	No
GOM_TRA_1PNPDE20040215_000410_000000512024_00174_10248_0025.N1	15-FEB-2004 00:04:10	Dark	51.000	131	Gam Lup	2.8000	26000.	102	10248	No
GOM_TRA_1PNPDE20040215_000935_000000492024_00174_10248_0026.N1	15-FEB-2004 00:09:35	Dark	49.000	10	Bet Cen	0.61000	28000.	98	10248	No
GOM_TRA_1PNPDE20040215_001054_000000452024_00174_10248_0027.N1	15-FEB-2004 00:10:54	Dark	45.000	77	Eps Cen	2.3030	28000.	90	10248	No
GOM_TRA_1PNPDE20040215_001241_000000442024_00174_10248_0028.N1	15-FEB-2004 00:12:41	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	10248	No
GOM_TRA_1PNPDE20040215_001415_000000512024_00174_10248_0029.N1	15-FEB-2004 00:14:15	Dark	51.000	64	Gam Cen	2.2000	10600.	102	10248	No
GOM_TRA_1PNPDE20040215_001555_000000402024_00174_10248_0030.N1	15-FEB-2004 00:15:55	Dark	40.000	159	Ups Car	2.9200	7200.0	80	10248	No
GOM_TRA_1PNPDE20040215_001748_000000422024_00174_10248_0031.N1	15-FEB-2004 00:17:48	Dark	42.000	71	lot Car	2.2460	7700.0	84	10248	No
GOM_TRA_1PNPDE20040215_001927_000000442024_00174_10248_0032.N1	15-FEB-2004 00:19:27	Dark	43.500	46	Del Vel	1.9540	10600.	87	10248	No
GOM_TRA_1PNPDE20040215_002150_000000432024_00174_10248_0033.N1	15-FEB-2004 00:21:50	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	10248	No
GOM_TRA_1PNPDE20040215_002352_000000422024_00174_10248_0034.N1	15-FEB-2004 00:23:52	Dark	41.500	70	Zet Pup	2.2460	39000.	83	10248	No
GOM_TRA_1PNPDE20040215_002749_000001032024_00174_10248_0000.N1	15-FEB-2004 00:27:49	Dark	102.50	100	4Gam Crv	2.5800	13100.	205	10248	No
GOM_TRA_1PNPDE20040215_003208_000000512024_00174_10248_0001.N1	15-FEB-2004 00:32:08	Dark	51.000	48	30Alp Hya	1.9770	4100.0	102	10248	No
GOM_TRA_1PNPDE20040215_003638_000000512024_00174_10248_0002.N1	15-FEB-2004 00:36:38	Dark	51.000	8	10Alp CMi	0.40000	6500.0	102	10248	No
GOM_TRA_1PNPDE20040215_003946_000000542024_00174_10248_0003.N1	15-FEB-2004 00:39:46	Bright	54.000	22	32Alp Leo	1.3600	15200.	108	10248	No
GOM_TRA_1PNPDE20040215_004258_000000402024_00174_10248_0004.N1	15-FEB-2004 00:42:58	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	10248	No
GOM_TRA_1PNPDE20040215_004901_000000372024_00174_10248_0005.N1	15-FEB-2004 00:49:01	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	10248	No
GOM_TRA_1PNPDE20040215_005309_000000542024_00174_10248_0006.N1	15-FEB-2004 00:53:09	Bright	53.500	174	52Psi UMa	3.0040	4400.0	107	10248	No
GOM_TRA_1PNPDE20040215_005457_000000462024_00174_10248_0007.N1	15-FEB-2004 00:54:57	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	10248	No
GOM_TRA_1PNPDE20040215_005710_000000512024_00174_10248_0008.N1	15-FEB-2004 00:57:10	Bright	51.000	87	64Gam UMa	2.4330	11000.	102	10248	No
GOM_TRA_1PNPDE20040215_010021_000000372024_00174_10248_0009.N1	15-FEB-2004 01:00:21	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	10248	No
GOM_TRA_1PNPDE20040215_010230_000000442024_00174_10248_0010.N1	15-FEB-2004 01:02:30	Bright	43.500	60	7Bet UMi	2.0810	3950.0	87	10248	No
GOM_TRA_1PNPDE20040215_010518_000000672024_00174_10248_0011.N1	15-FEB-2004 01:05:18	Bright	66.500	39	85Eta UMa	1.8540	24000.	133	10248	No
GOM_TRA_1PNPDE20040215_011107_000000422024_00174_10248_0012.N1	15-FEB-2004 01:11:07	Bright	42.000	130	23Bet Dra	2.7990	5800.0	84	10248	No
GOM_TRA_1PNPDE20040215_011259_000000382024_00174_10248_0013.N1	15-FEB-2004 01:12:59	Bright	38.000	144	18Del Cyg	2.8600	11000.	76	10248	No
GOM_TRA_1PNPDE20040215_011519_000000392024_00174_10248_0014.N1	15-FEB-2004 01:15:19	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	10248	No
GOM_TRA_1PNPDE20040215_011826_000000552024_00174_10248_0015.N1	15-FEB-2004 01:18:26	Bright	55.000	133	40Zet Her	2.8070	6000.0	110	10248	No
GOM_TRA_1PNPDE20040215_012231_000001072024_00174_10248_0016.N1	15-FEB-2004 01:22:31	Dark	106.50	67	5Alp CrB	2.2210	11000.	213	10248	No
GOM_TRA_1PNPDE20040215_012633_000000532024_00174_10248_0017.N1	15-FEB-2004 01:26:33	Dark	53.000	126	60Bet Oph	2.7700	4250.0	106	10248	No
GOM_TRA_1PNPDE20040215_013324_000000442024_00174_10248_0018.N1	15-FEB-2004 01:33:24	Dark	43.500	57	34Sig Sgr	2.0660	26000.	87	10248	No
GOM_TRA_1PNPDE20040215_013608_000000452024_00174_10248_0019.N1	15-FEB-2004 01:36:08	Dark	45.000	38	20Eps Sgr	1.8360	11000.	90	10248	No
GOM_TRA_1PNPDE20040215_013932_000000452024_00174_10248_0020.N1	15-FEB-2004 01:39:32	Dark	44.500	40	The Sco	1.8590	7100.0	89	10248	No
GOM_TRA_1PNPDE20040215_014119_000000412024_00174_10248_0021.N1	15-FEB-2004 01:41:19	Dark	40.500	147	Alp Ara	2.8770	26000.	81	10248	No
GOM_TRA_1PNPDE20040215_014245_000000452024_00174_10248_0022.N1	15-FEB-2004 01:42:45	Dark	45.000	141	Bet Ara	2.8400	4600.0	90	10248	No
GOM_TRA_1PNPDE20040215_014449_000000502024_00175_10249_0023.N1	15-FEB-2004 01:44:49	Dark	49.500	131	Gam Lup	2.8000	26000.	99	10249	No
GOM_TRA_1PNPDE20040215_015012_000000472024_00175_10249_0024.N1	15-FEB-2004 01:50:12	Dark	47.000	10	Bet Cen	0.61000	28000.	94	10249	No
GOM_TRA_1PNPDE20040215_015131_000000452024_00175_10249_0025.N1	15-FEB-2004 01:51:31	Dark	44.500	77	Eps Cen	2.3030	28000.	89	10249	No
GOM_TRA_1PNPDE20040215_015317_000000522024_00175_10249_0026.N1	15-FEB-2004 01:53:17	Dark	52.000	12	Alp1Cru	0.77500	30000.	104	10249	No
GOM_TRA_1PNPDE20040215_015454_000000472024_00175_10249_0027.N1	15-FEB-2004 01:54:54	Dark	47.000	64	Gam Cen	2.2000	10600.	94	10249	No
GOM_TRA_1PNPDE20040215_015631_000000402024_00175_10249_0028.N1	15-FEB-2004 01:56:31	Dark	39.500	159	Ups Car	2.9200	7200.0	79	10249	No
GOM_TRA_1PNPDE20040215_015825_000000432024_00175_10249_0029.N1	15-FEB-2004 01:58:25	Dark	43.000	71	lot Car	2.2460	7700.0	86	10249	No
GOM_TRA_1PNPDE20040215_020002_000000422024_00175_10249_0030.N1	15-FEB-2004 02:00:02	Dark	42.000	46	Del Vel	1.9540	10600.	84	10249	No
GOM_TRA_1PNPDE20040215_020227_000000412024_00175_10249_0031.N1	15-FEB-2004 02:02:27	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	10249	No
GOM_TRA_1PNPDE20040215_020429_000000432024_00175_10249_0032.N1	15-FEB-2004 02:04:29	Dark	43.000	70	Zet Pup	2.2460	39000.	86	10249	No
GOM_TRA_1PNPDE20040215_020825_000001062024_00175_10249_0000.N1	15-FEB-2004 02:08:25	Dark	106.00	100	4Gam Crv	2.5800	13100.	212	10249	No
GOM_TRA_1PNPDE20040215_021244_000000552024_00175_10249_0001.N1	15-FEB-2004 02:12:44	Dark	54.500	48	30Alp Hya	1.9770	4100.0	109	10249	No
GOM_TRA_1PNPDE20040215_021714_000000522024_00175_10249_0002.N1	15-FEB-2004 02:17:14	Dark	52.000	8	10Alp CMi	0.40000	6500.0	104	10249	No
GOM_TRA_1PNPDE20040215_022021_000000562024_00175_10249_0003.N1	15-FEB-2004 02:20:21	Bright	55.500	22	32Alp Leo	1.3600	15200.	111	10249	No

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



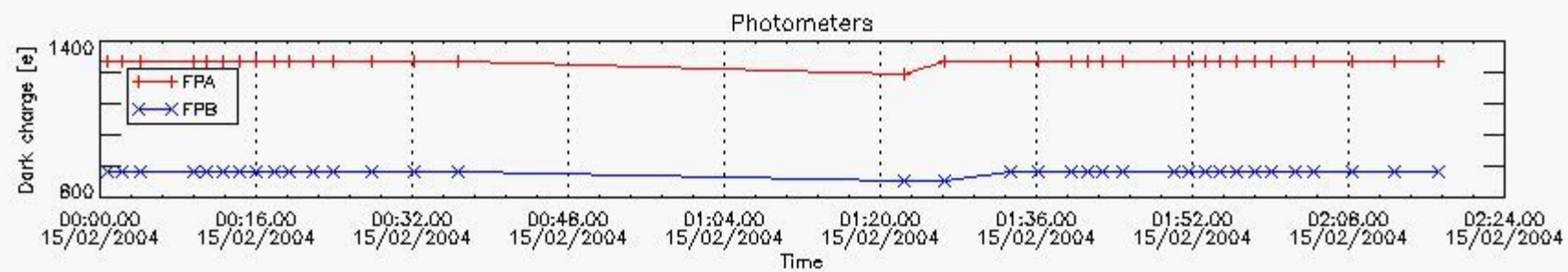
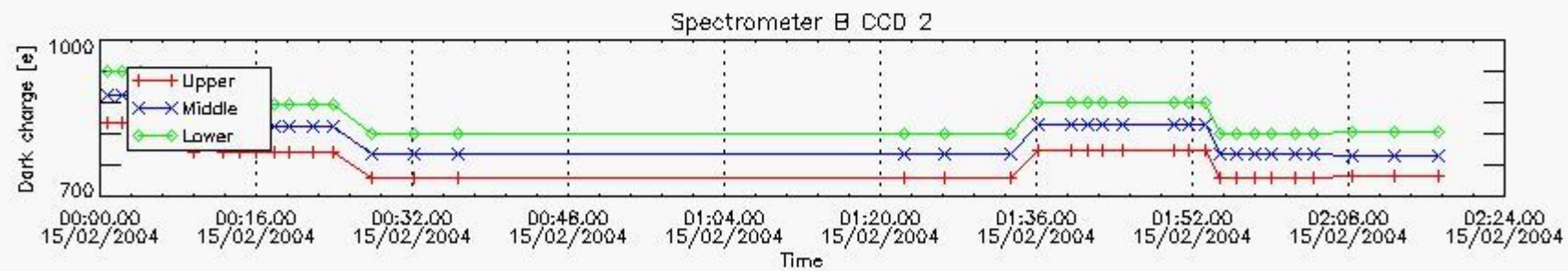
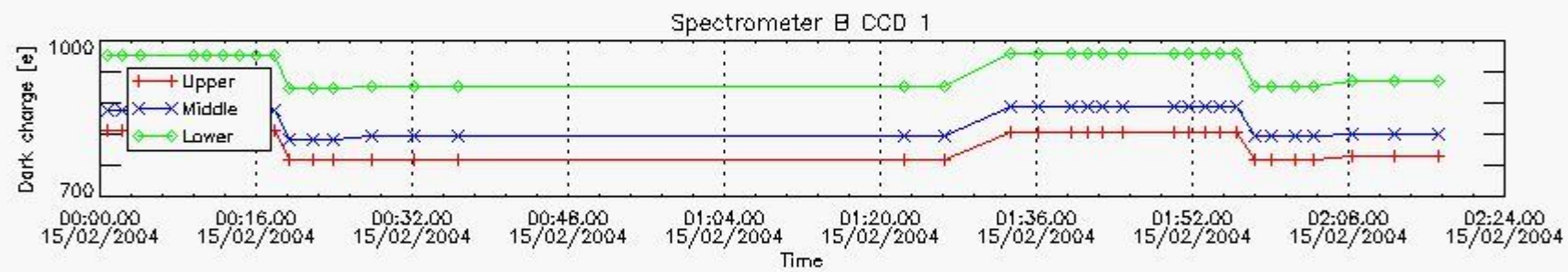
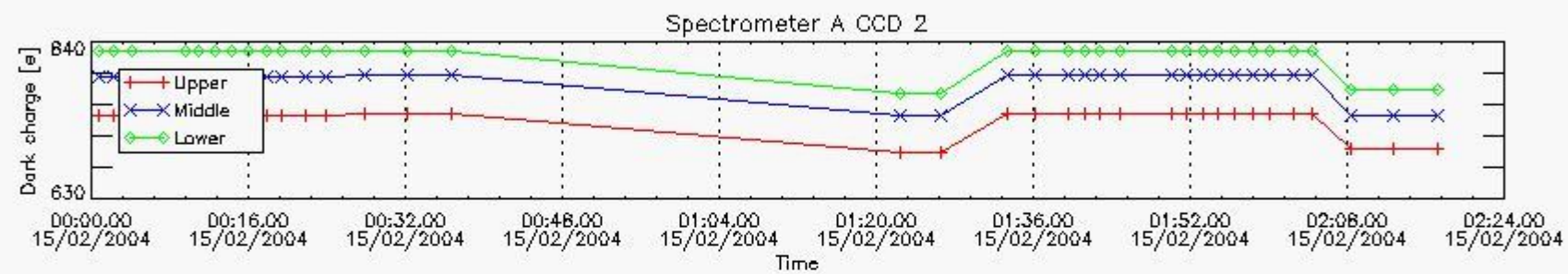
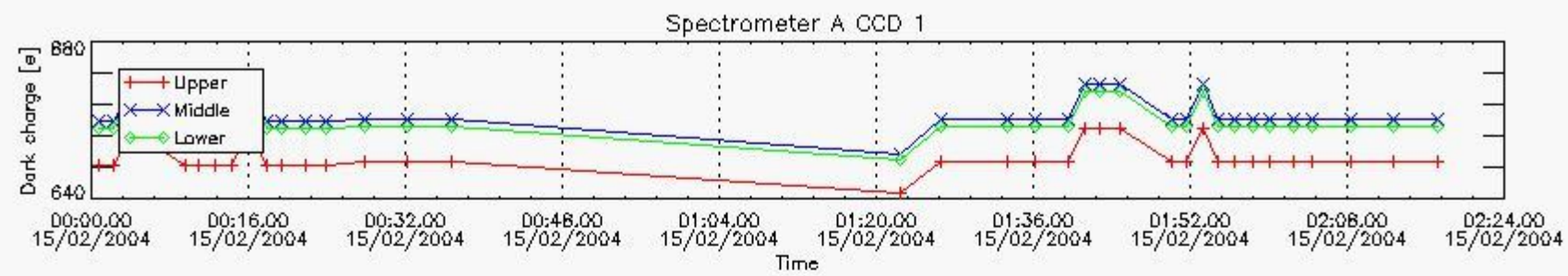
4. Overview of dark signal processing per product

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

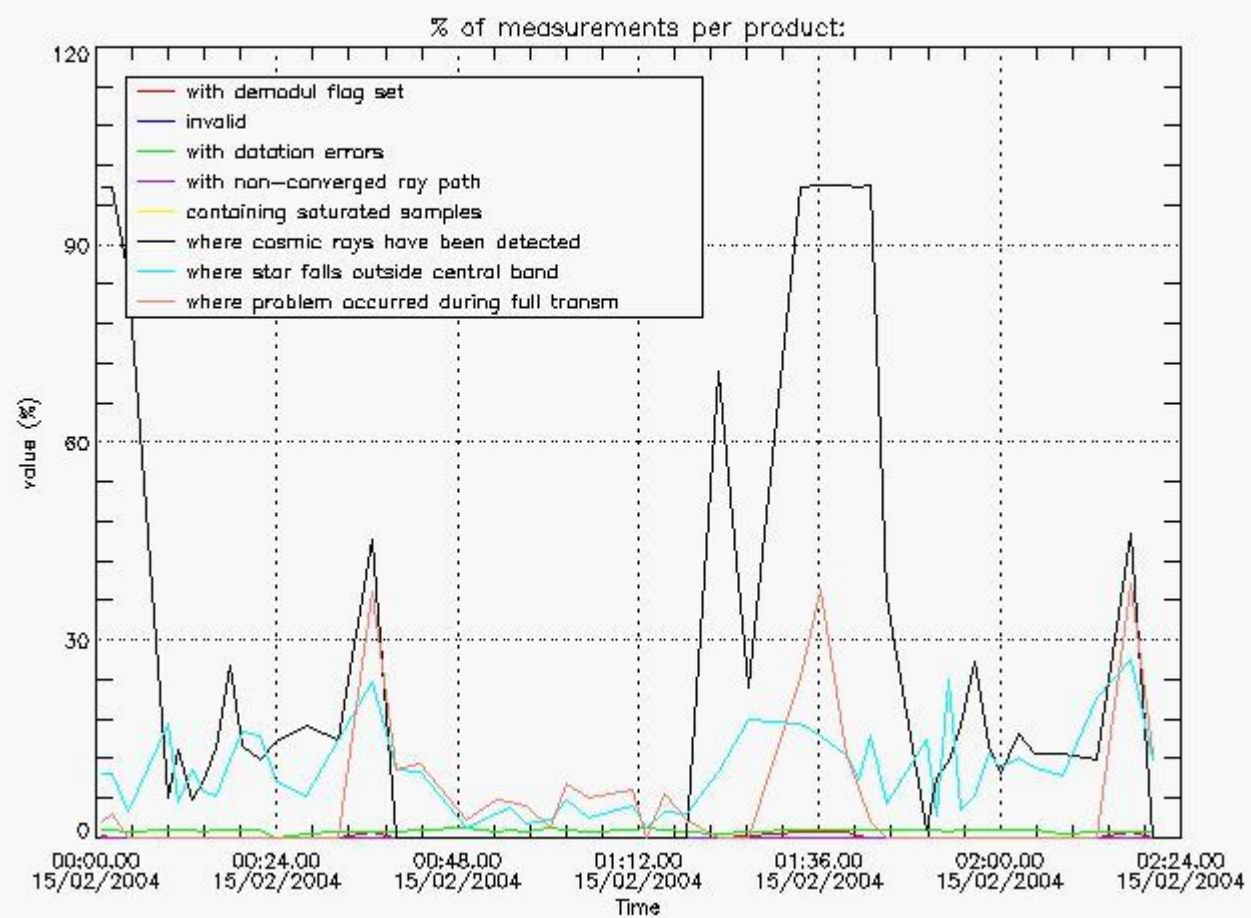


5. Demodulation flag and quality information monitoring

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



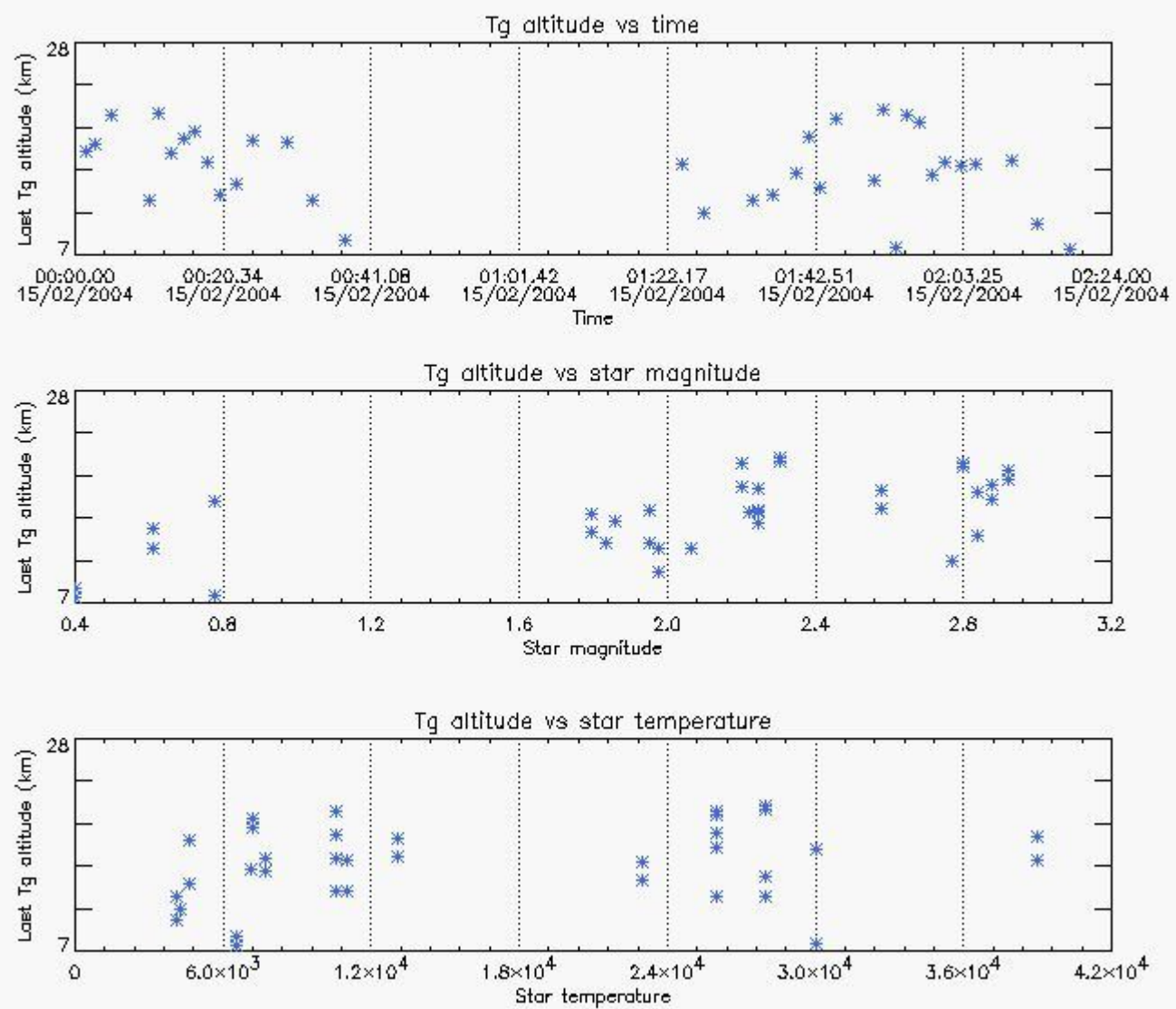
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	15.599	21.037
St. deviation:	3.8264	3.2564
Maximum:	21.341	25.119
Minimum:	7.5874	14.887
Number of data:	35.000	14.000

6.2 Plot for DARK limb products

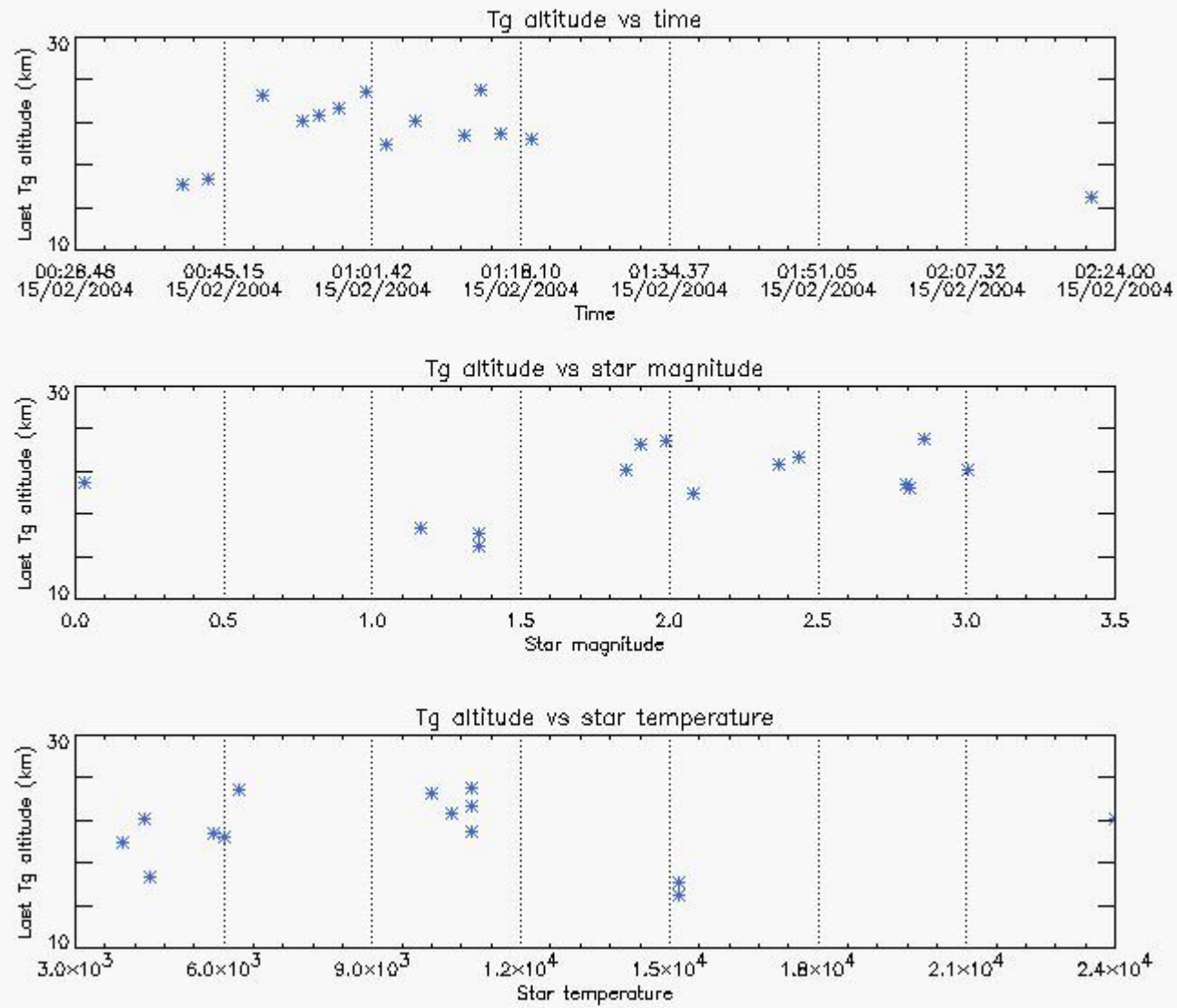
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



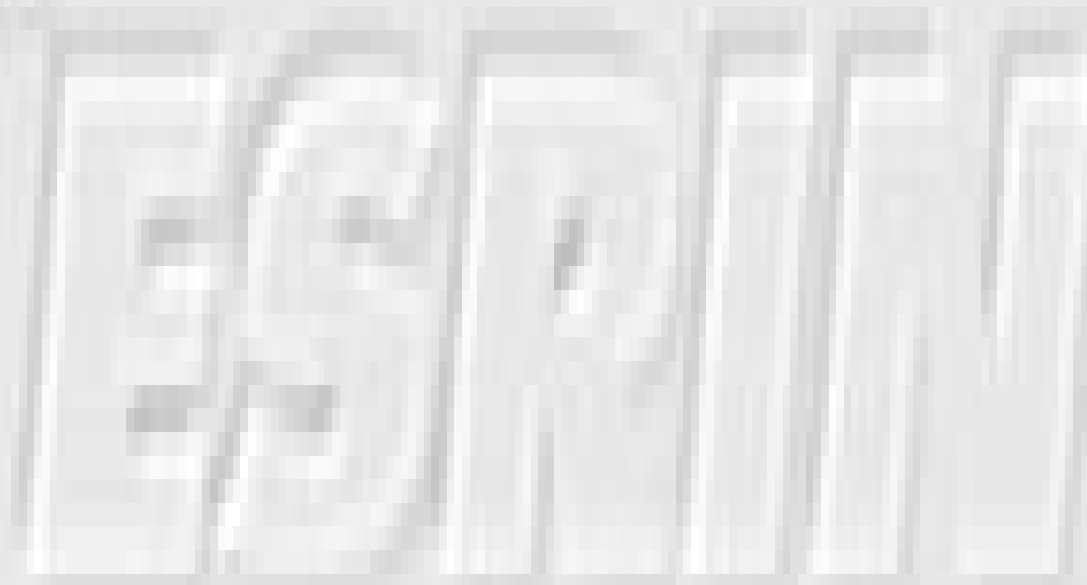
Tangent altitude at which the star is lost



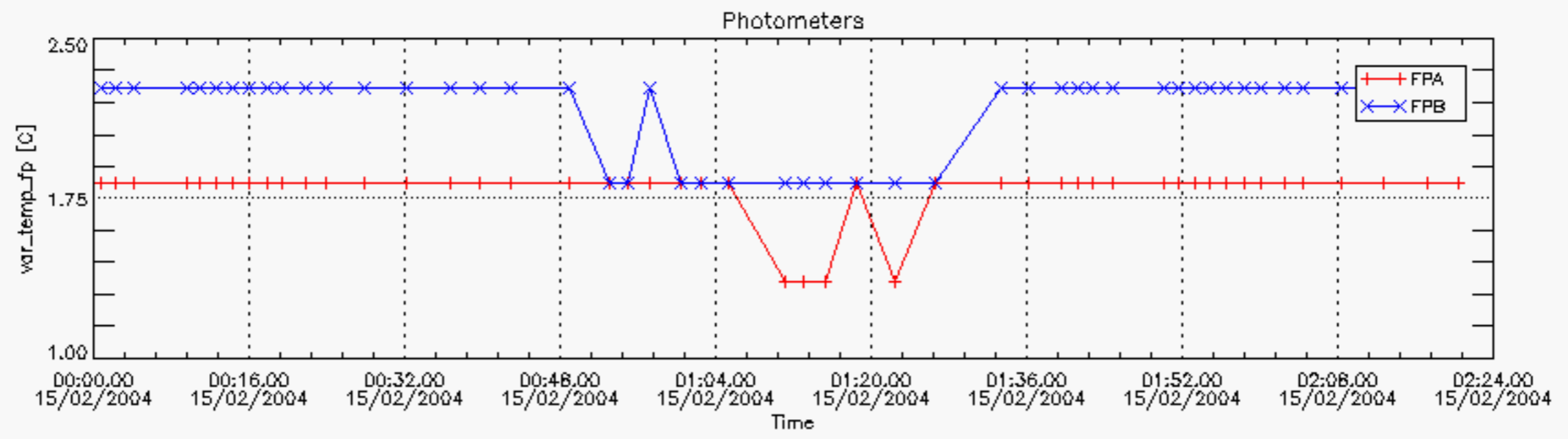
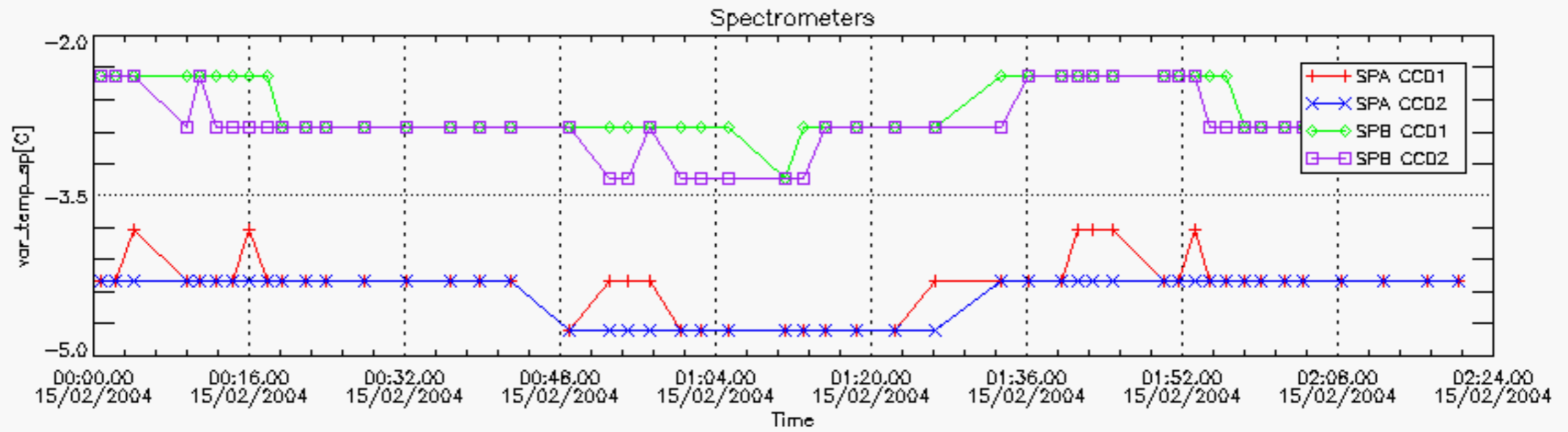
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

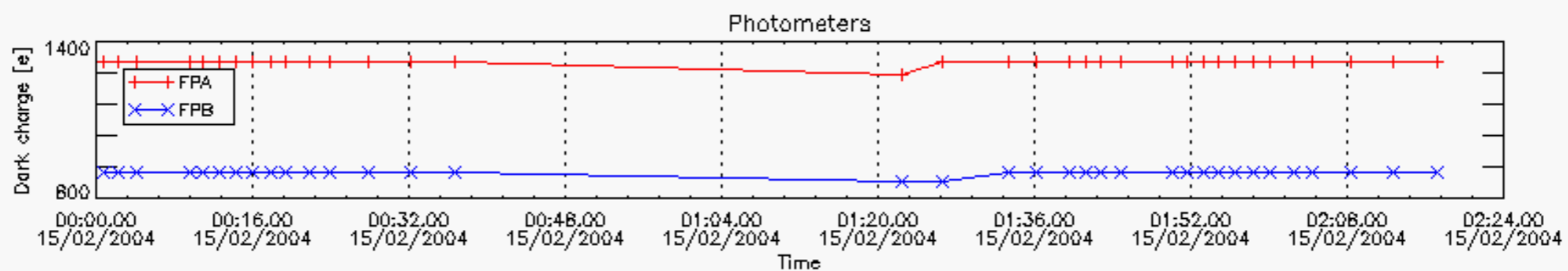
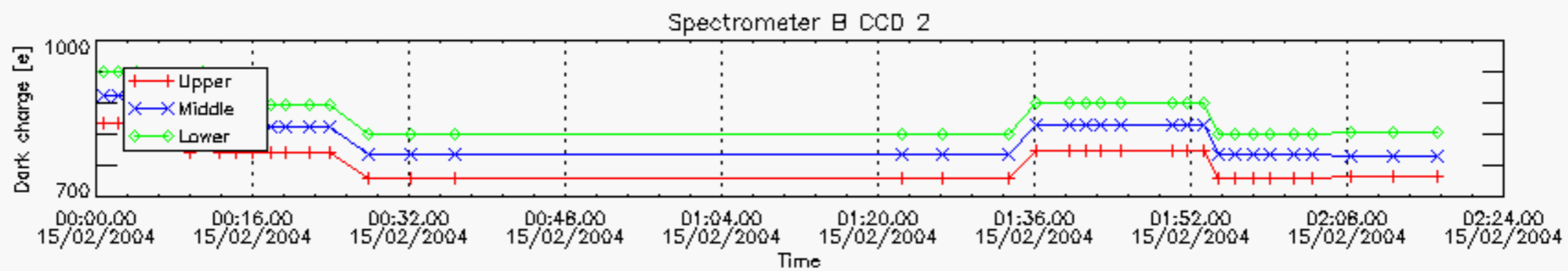
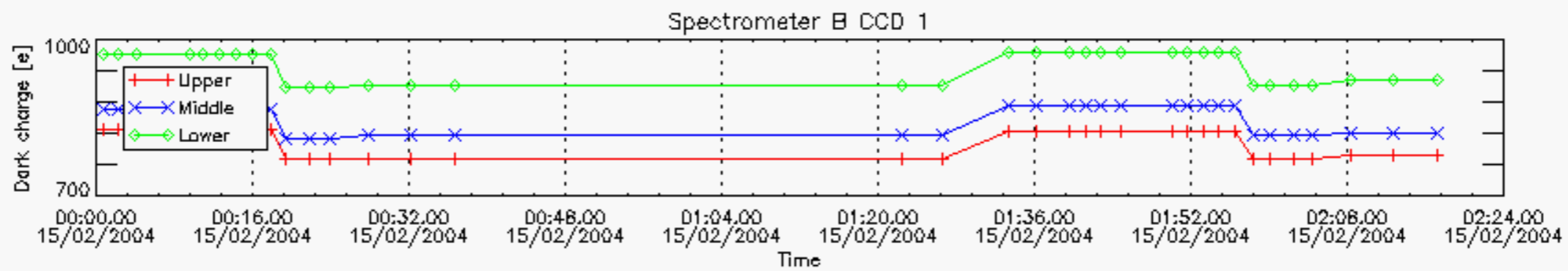
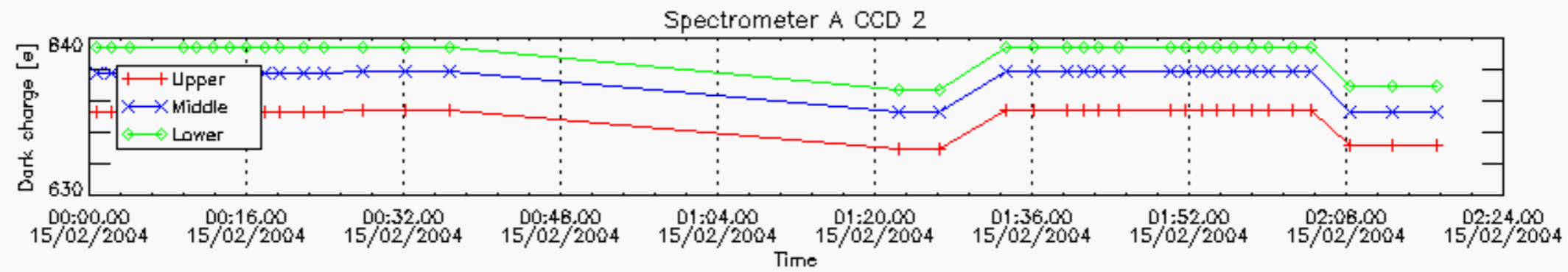
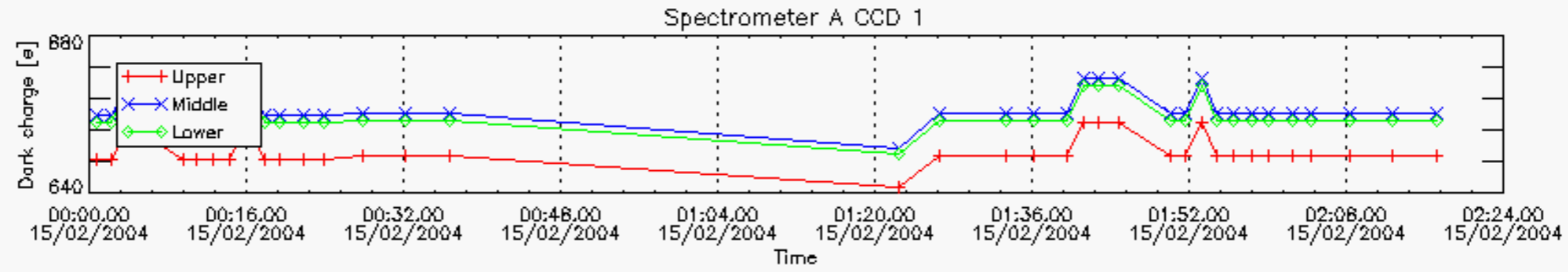
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

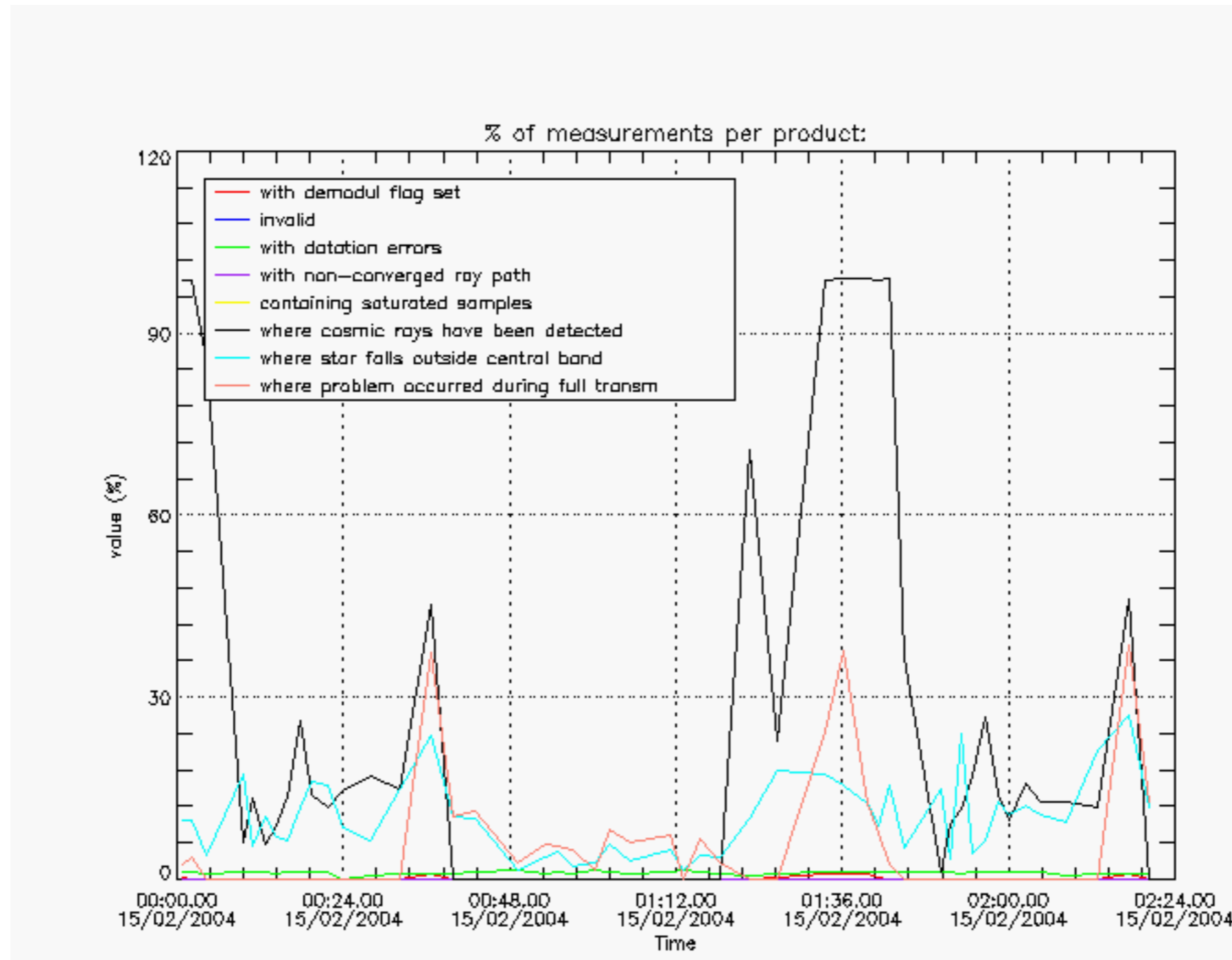
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.5	1447.2	1461.9	1448.1
St. deviation:	5.9922	8.8739	6.7024	8.7727
Maximum:	1617.0	1722.0	1499.0	1521.0
Minimum:	1449.0	1428.0	1448.0	1429.0
Number of data:	46250.	46250.	17300.	17300.



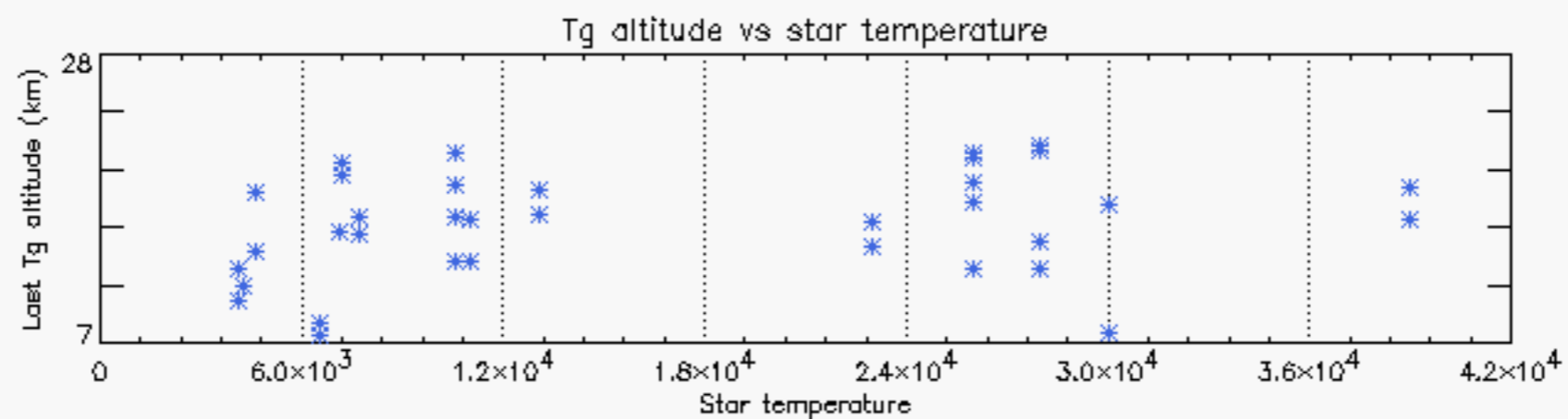
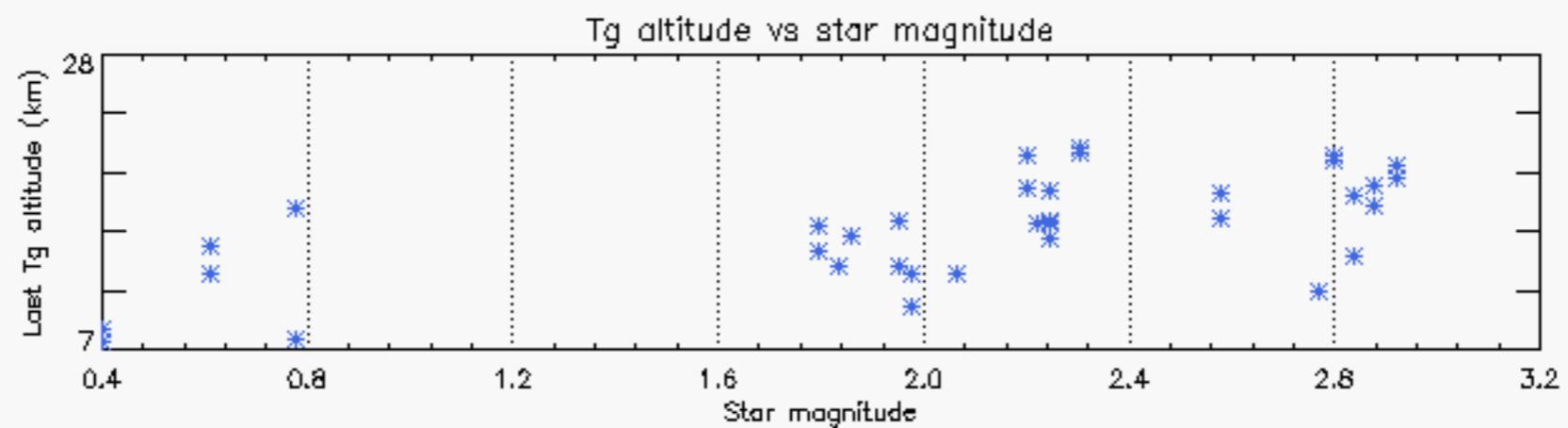
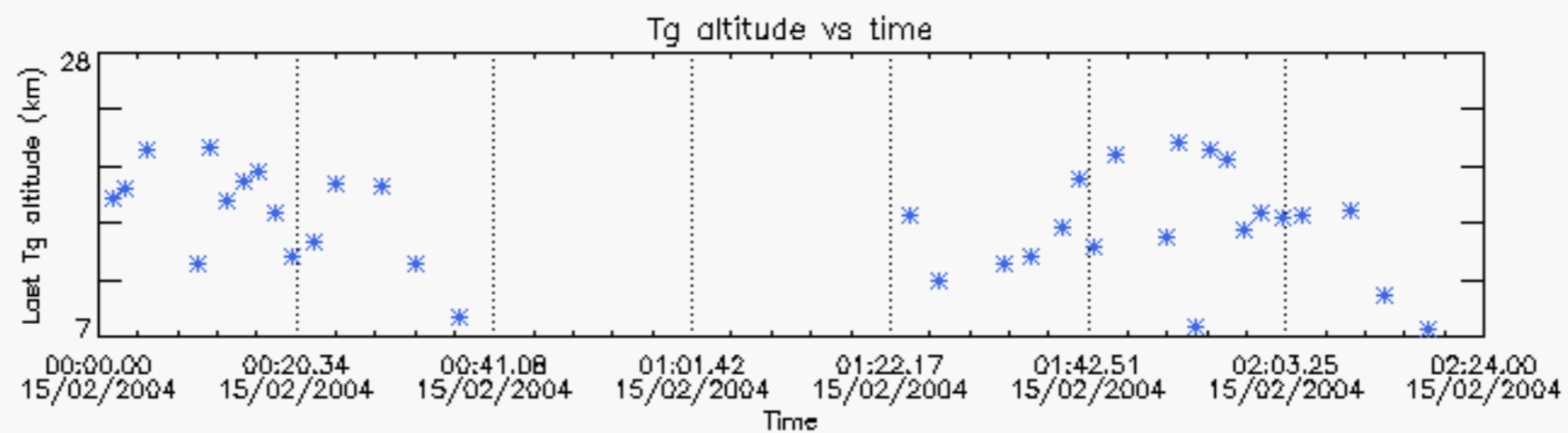




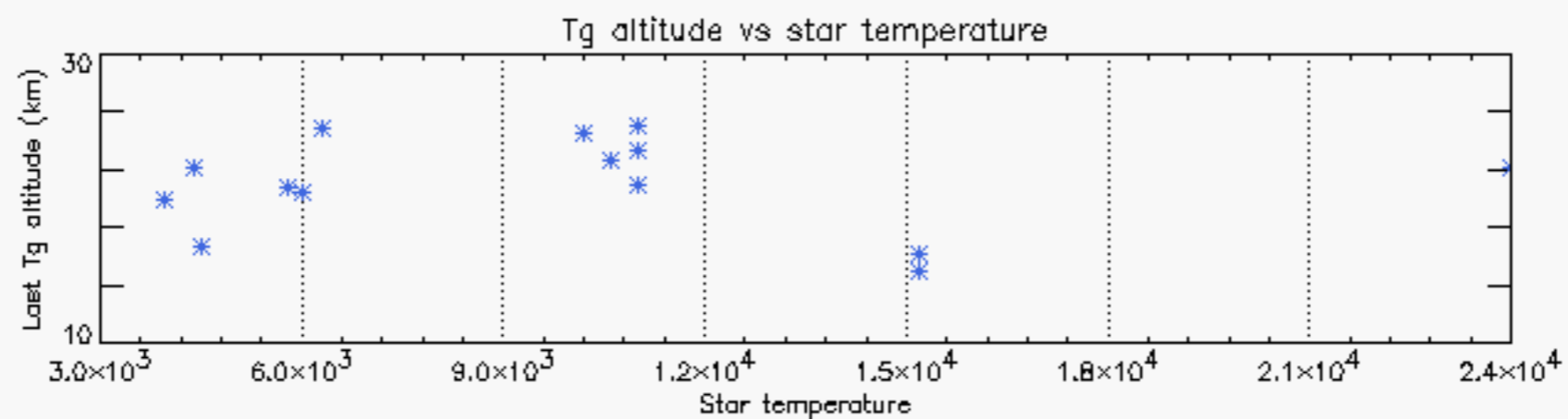
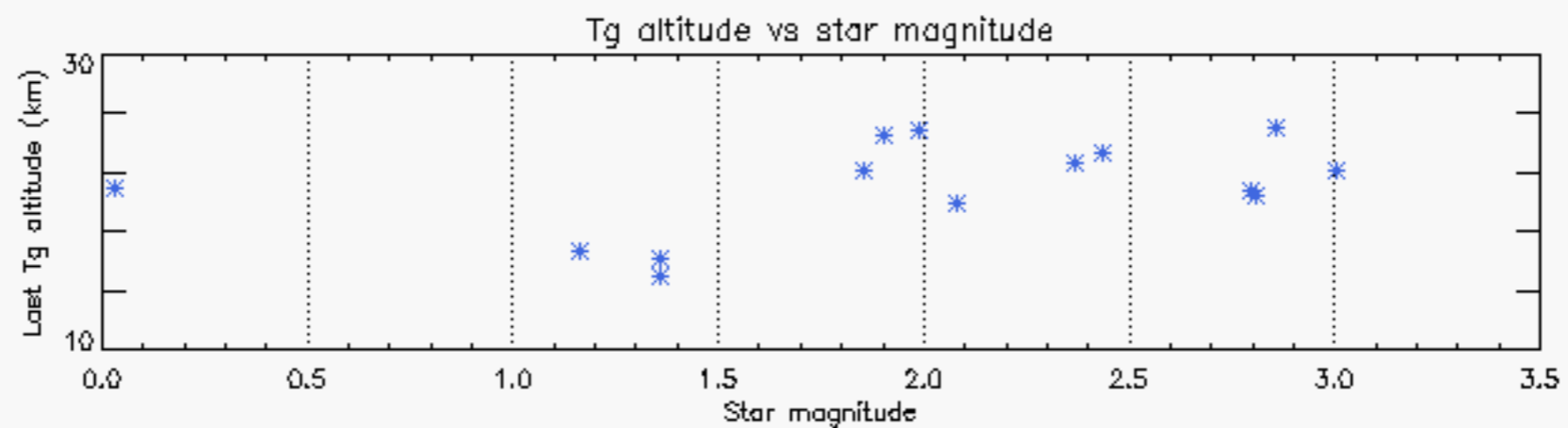
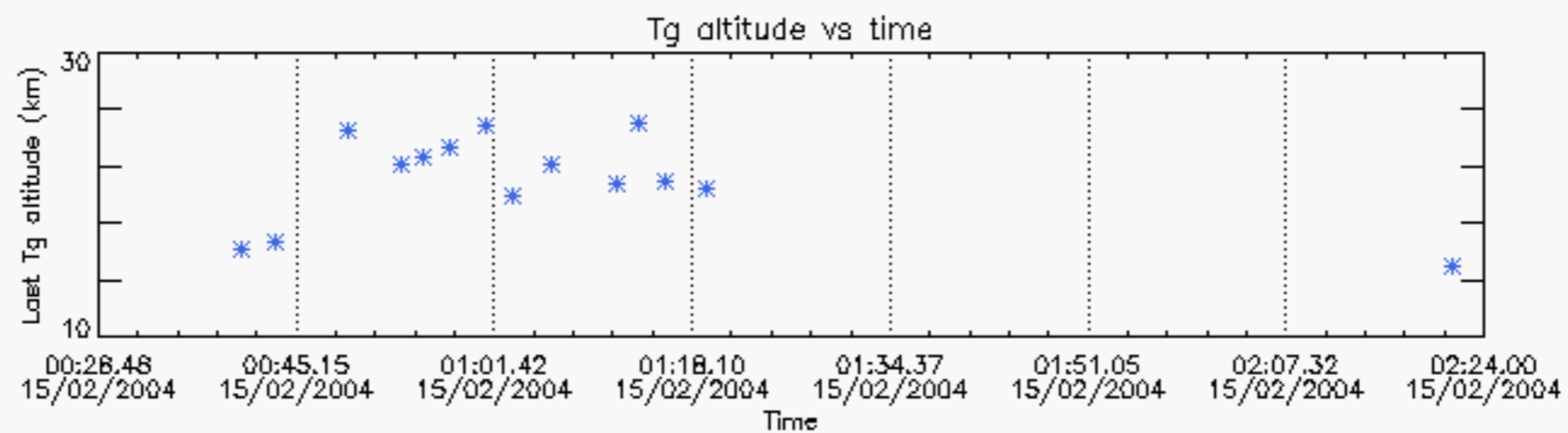




Tangent altitude at which the star is lost



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
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33; 1101.4; 08-FEB-2004 09:04:41; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;10153
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13;	-2215.5;	08-FEB-2004	09:50:00;	Bright;		38.5;	89;	5Alp Cep	;	2.45;	8000;occ;	77;	0;	10153
14;	-1954.3;	08-FEB-2004	09:54:21;	Bright;		38.0;	130;	23Bet Dra	;	2.80;	5800;occ;	76;	0;	10153
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17;	-1536.6;	08-FEB-2004	10:01:19;	Bright;		49.0;	133;	40Zet Her	;	2.81;	6000;occ;	98;	0;	10153
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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
28;	388.5;	08-FEB-2004	10:33:24;	Dark	;	44.0;	77;	Eps Cen	;	2.30;	28000;occ;	88;	0;	10154
29;	498.2;	08-FEB-2004	10:35:14;	Dark	;	42.5;	20;	Bet Cru	;	1.25;	30000;occ;	85;	0;	10154
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31;	702.9;	08-FEB-2004	10:38:38;	Dark	;	38.5;	29;	Bet Car	;	1.67;	10200;occ;	77;	0;	10154
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4;	-3817.5;	08-FEB-2004	11:03:54;	Bright;		39.5;	44;	24Gam Gem	;	1.93;	11000;occ;	79;	0;	10154
5;	-3703.7;	08-FEB-2004	11:05:48;	Bright;		41.0;	151;	13Mu Gem	;	2.89;	3000;occ;	82;	0;	10154
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7;	-3440.7;	08-FEB-2004	11:10:11;	Bright;		37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	10154
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
10;	-2930.8;	08-FEB-2004	11:18:41;	Bright;		57.5;	174;	52Psi UMa	;	3.00;	4400;occ;	115;	0;	10154
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12;	-2450.5;	08-FEB-2004	11:26:41;	Bright;		45.5;	60;	7Bet UMi	;	2.08;	3950;occ;	91;	0;	10154
13;	-2215.7;	08-FEB-2004	11:30:36;	Bright;		37.0;	89;	5Alp Cep	;	2.45;	8000;occ;	74;	0;	10154
14;	-1954.5;	08-FEB-2004	11:34:57;	Bright;		42.5;	130;	23Bet Dra	;	2.80;	5800;occ;	85;	0;	10154
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6;-3541.0; 29-FEB-2004 06:46:57; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;10452
7;-3215.2; 29-FEB-2004 06:52:23; Bright; 44.5; 174; 52Psi UMa ; 3.00; 4400;occ; 89; 0;10452
8;-3051.6; 29-FEB-2004 06:55:07; Bright; 40.5; 82; 48Bet UMa ; 2.37; 10600;occ; 81; 0;10452
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13;-1999.5; 29-FEB-2004 07:12:39; Bright; 47.0; 130; 23Bet Dra ; 2.80; 5800;occ; 94; 0;10452
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