

GOMOS Daily Report 16-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	19FEB2004 08:51:28
Data source version	<Any version>
Start time of products	16-FEB-2004 (16FEB2004 00:00:00)
Stop time of products	17-FEB-2004 (17FEB2004 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

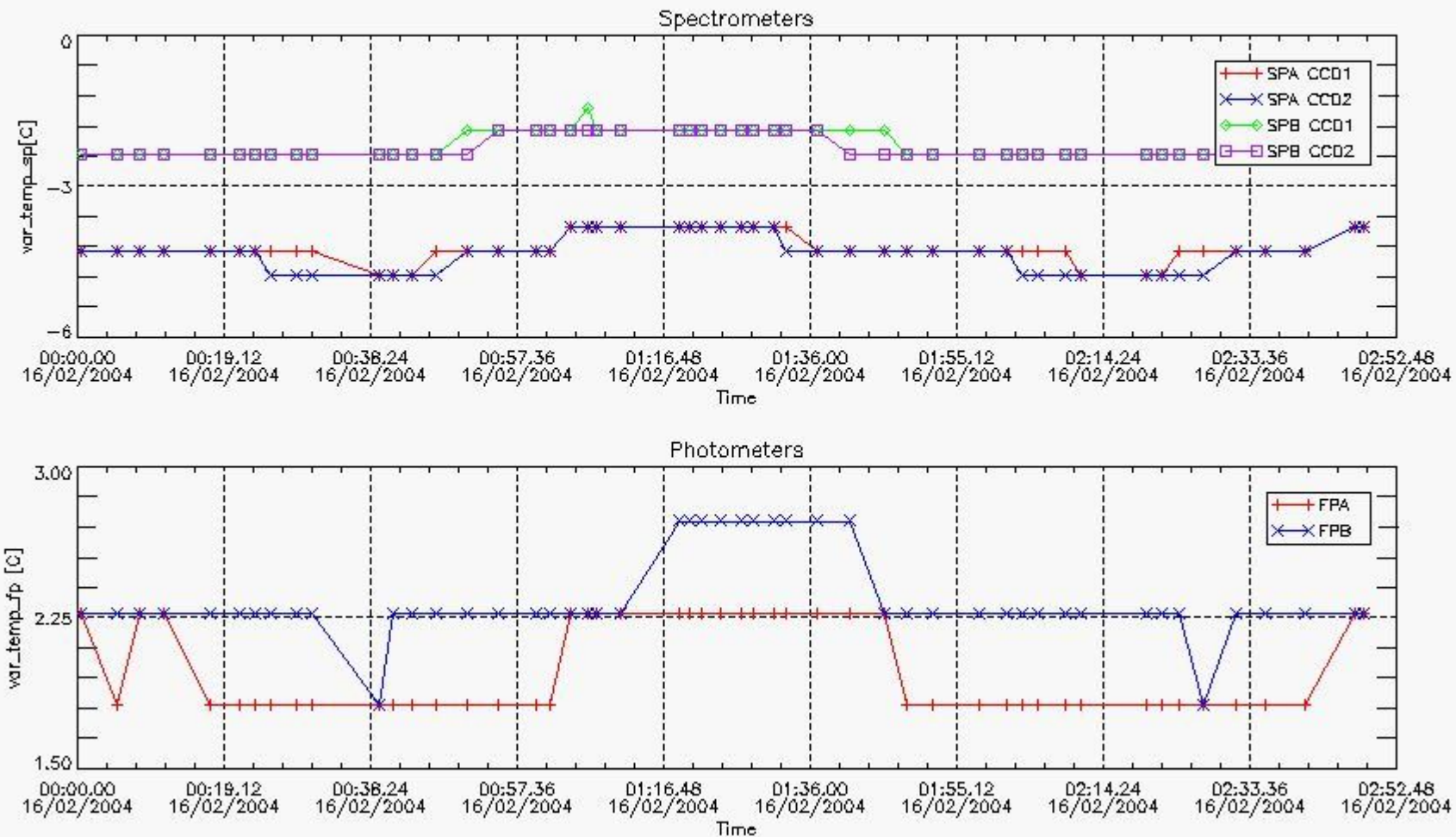
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040216_000033_000000532024_00188_10262_0002.N1	16-FEB-2004 00:00:33	Dark	52.500	48	30Alp Hya	1.9770	4100.0	105	10262	No
GOM_TRA_1PNPDE20040216_000505_000000522024_00188_10262_0003.N1	16-FEB-2004 00:05:05	Dark	51.500	8	10Alp CMi	0.40000	6500.0	103	10262	No
GOM_TRA_1PNPDE20040216_000802_000000532024_00188_10262_0004.N1	16-FEB-2004 00:08:02	Bright	52.500	22	32Alp Leo	1.3600	15200.	105	10262	No
GOM_TRA_1PNPDE20040216_001121_000000412024_00188_10262_0005.N1	16-FEB-2004 00:11:21	Bright	41.000	17	78Bet Gem	1.1610	4500.0	82	10262	No
GOM_TRA_1PNPDE20040216_001729_000000402024_00188_10262_0006.N1	16-FEB-2004 00:17:29	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	10262	No
GOM_TRA_1PNPDE20040216_002116_000000552024_00188_10262_0007.N1	16-FEB-2004 00:21:16	Bright	55.000	174	52Psi UMa	3.0040	4400.0	110	10262	No
GOM_TRA_1PNPDE20040216_002309_000000472024_00188_10262_0008.N1	16-FEB-2004 00:23:09	Bright	47.000	82	48Bet UMa	2.3650	10600.	94	10262	No
GOM_TRA_1PNPDE20040216_002520_000000502024_00188_10262_0009.N1	16-FEB-2004 00:25:20	Bright	50.000	87	64Gam UMa	2.4330	11000.	100	10262	No
GOM_TRA_1PNPDE20040216_002844_000000362024_00188_10262_0010.N1	16-FEB-2004 00:28:44	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	10262	No
GOM_TRA_1PNPDE20040216_003049_000000452024_00188_10262_0011.N1	16-FEB-2004 00:30:49	Bright	44.500	60	7Bet UMi	2.0810	3950.0	89	10262	No
GOM_TRA_1PNPDE20040216_003928_000000432024_00188_10262_0012.N1	16-FEB-2004 00:39:28	Bright	43.000	130	23Bet Dra	2.7990	5800.0	86	10262	No
GOM_TRA_1PNPDE20040216_004126_000000372024_00188_10262_0013.N1	16-FEB-2004 00:41:26	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	10262	No
GOM_TRA_1PNPDE20040216_004343_000000412024_00188_10262_0014.N1	16-FEB-2004 00:43:43	Bright	41.000	5	3Alp Lyr	0.033000	11000.	82	10262	No
GOM_TRA_1PNPDE20040216_004653_000000562024_00188_10262_0015.N1	16-FEB-2004 00:46:53	Bright	55.500	133	40Zet Her	2.8070	6000.0	111	10262	No
GOM_TRA_1PNPDE20040216_005106_000001102024_00188_10262_0016.N1	16-FEB-2004 00:51:06	Dark	110.00	67	5Alp CrB	2.2210	11000.	220	10262	No
GOM_TRA_1PNPDE20040216_005502_000000582024_00188_10262_0017.N1	16-FEB-2004 00:55:02	Dark	57.500	126	60Bet Oph	2.7700	4250.0	115	10262	No
GOM_TRA_1PNPDE20040216_010011_000000432024_00188_10262_0018.N1	16-FEB-2004 01:00:11	Dark	43.000	155	41Pi Sgr	2.9000	6600.0	86	10262	No
GOM_TRA_1PNPDE20040216_010151_000000442024_00188_10262_0019.N1	16-FEB-2004 01:01:51	Dark	43.500	57	34Sig Sgr	2.0660	26000.	87	10262	No
GOM_TRA_1PNPDE20040216_010437_000000442024_00188_10262_0020.N1	16-FEB-2004 01:04:37	Dark	44.000	38	20Eps Sgr	1.8360	11000.	88	10262	No
GOM_TRA_1PNPDE20040216_010645_000000452024_00188_10262_0021.N1	16-FEB-2004 01:06:45	Dark	45.000	25	35Lam Sco	1.6200	28000.	90	10262	No
GOM_TRA_1PNPDE20040216_010800_000000482024_00188_10262_0022.N1	16-FEB-2004 01:08:00	Dark	47.500	40	The Sco	1.8590	7100.0	95	10262	No
GOM_TRA_1PNPDE20040216_011114_000000442024_00188_10262_0023.N1	16-FEB-2004 01:11:14	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	10262	No
GOM_TRA_1PNPDE20040216_011844_000000432024_00189_10263_0024.N1	16-FEB-2004 01:18:44	Dark	42.500	10	Bet Cen	0.61000	28000.	85	10263	No
GOM_TRA_1PNPDE20040216_012005_000000442024_00189_10263_0025.N1	16-FEB-2004 01:20:05	Dark	44.000	77	Eps Cen	2.3030	28000.	88	10263	No
GOM_TRA_1PNPDE20040216_012147_000000472024_00189_10263_0026.N1	16-FEB-2004 01:21:47	Dark	46.500	12	Alp1Cru	0.77500	30000.	93	10263	No
GOM_TRA_1PNPDE20040216_012415_000000412024_00189_10263_0027.N1	16-FEB-2004 01:24:15	Dark	40.500	29	Bet Car	1.6720	10200.	81	10263	No
GOM_TRA_1PNPDE20040216_012652_000000452024_00189_10263_0028.N1	16-FEB-2004 01:26:52	Dark	45.000	71	lot Car	2.2460	7700.0	90	10263	No
GOM_TRA_1PNPDE20040216_012826_000000412024_00189_10263_0029.N1	16-FEB-2004 01:28:26	Dark	41.000	46	Del Vel	1.9540	10600.	82	10263	No
GOM_TRA_1PNPDE20040216_013110_000000492024_00189_10263_0030.N1	16-FEB-2004 01:31:10	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	10263	No
GOM_TRA_1PNPDE20040216_013256_000000402024_00189_10263_0031.N1	16-FEB-2004 01:32:56	Dark	40.000	70	Zet Pup	2.2460	39000.	80	10263	No
GOM_TRA_1PNPDE20040216_013652_000000992024_00189_10263_0000.N1	16-FEB-2004 01:36:52	Dark	99.000	100	4Gam Crv	2.5800	13100.	198	10263	No
GOM_TRA_1PNPDE20040216_014110_000000502024_00189_10263_0001.N1	16-FEB-2004 01:41:10	Dark	49.500	48	30Alp Hya	1.9770	4100.0	99	10263	No
GOM_TRA_1PNPDE20040216_014541_000000472024_00189_10263_0002.N1	16-FEB-2004 01:45:41	Dark	47.000	8	10Alp CMi	0.40000	6500.0	94	10263	No
GOM_TRA_1PNPDE20040216_014837_000000532024_00189_10263_0003.N1	16-FEB-2004 01:48:37	Bright	53.000	22	32Alp Leo	1.3600	15200.	106	10263	No
GOM_TRA_1PNPDE20040216_015157_000000432024_00189_10263_0004.N1	16-FEB-2004 01:51:57	Bright	42.500	17	78Bet Gem	1.1610	4500.0	85	10263	No
GOM_TRA_1PNPDE20040216_015806_000000402024_00189_10263_0005.N1	16-FEB-2004 01:58:06	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	10263	No
GOM_TRA_1PNPDE20040216_020151_000000532024_00189_10263_0006.N1	16-FEB-2004 02:01:51	Bright	52.500	174	52Psi UMa	3.0040	4400.0	105	10263	No
GOM_TRA_1PNPDE20040216_020344_000000482024_00189_10263_0007.N1	16-FEB-2004 02:03:44	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	10263	No
GOM_TRA_1PNPDE20040216_020555_000000502024_00189_10263_0008.N1	16-FEB-2004 02:05:55	Bright	50.000	87	64Gam UMa	2.4330	11000.	100	10263	No
GOM_TRA_1PNPDE20040216_020920_000000362024_00189_10263_0009.N1	16-FEB-2004 02:09:20	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	10263	No
GOM_TRA_1PNPDE20040216_021125_000000392024_00189_10263_0010.N1	16-FEB-2004 02:11:25	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	10263	No
GOM_TRA_1PNPDE20040216_022004_000000422024_00189_10263_0011.N1	16-FEB-2004 02:20:04	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	10263	No
GOM_TRA_1PNPDE20040216_022202_000000372024_00189_10263_0012.N1	16-FEB-2004 02:22:02	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	10263	No
GOM_TRA_1PNPDE20040216_022418_000000392024_00189_10263_0013.N1	16-FEB-2004 02:24:18	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	10263	No
GOM_TRA_1PNPDE20040216_022728_000000582024_00189_10263_0014.N1	16-FEB-2004 02:27:28	Bright	57.500	133	40Zet Her	2.8070	6000.0	115	10263	No
GOM_TRA_1PNPDE20040216_023143_000001192024_00189_10263_0015.N1	16-FEB-2004 02:31:43	Dark	118.50	67	5Alp CrB	2.2210	11000.	237	10263	No
GOM_TRA_1PNPDE20040216_023540_000000562024_00189_10263_0016.N1	16-FEB-2004 02:35:40	Dark	56.000	126	60Bet Oph	2.7700	4250.0	112	10263	No
GOM_TRA_1PNPDE20040216_024048_000000402024_00189_10263_0017.N1	16-FEB-2004 02:40:48	Dark	40.000	155	41Pi Sgr	2.9000	6600.0	80	10263	No
GOM_TRA_1PNPDE20040216_024723_000000472024_00189_10263_0018.N1	16-FEB-2004 02:47:23	Dark	47.000	25	35Lam Sco	1.6200	28000.	94	10263	No
GOM_TRA_1PNPDE20040216_024837_000000482024_00189_10263_0019.N1	16-FEB-2004 02:48:37	Dark	48.000	40	The Sco	1.8590	7100.0	96	10263	No

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



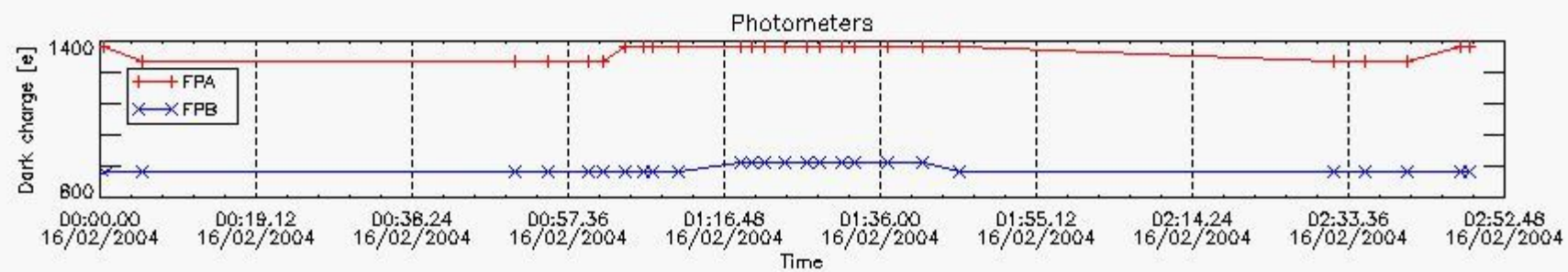
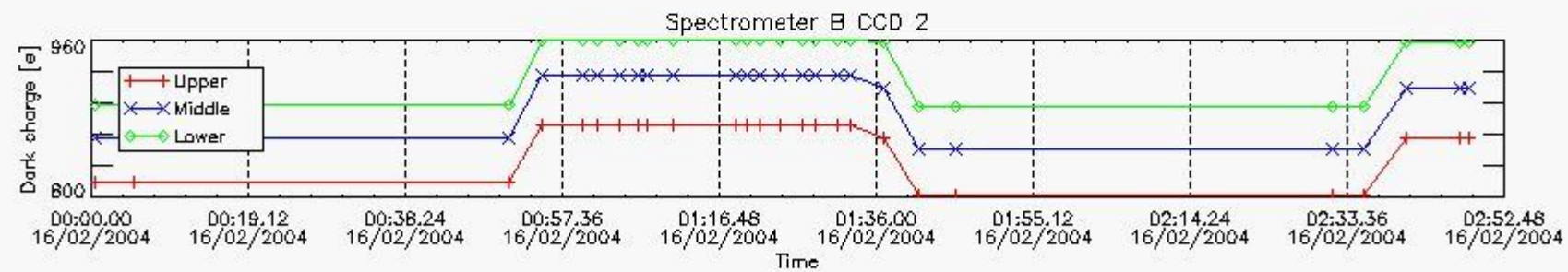
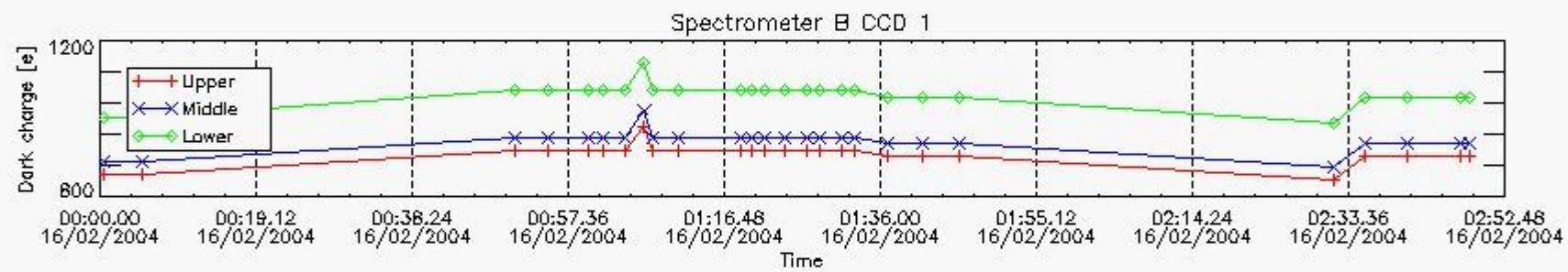
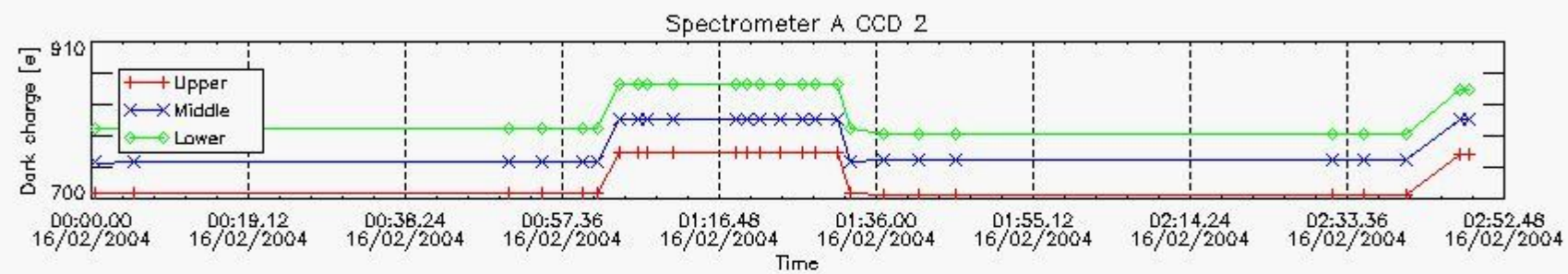
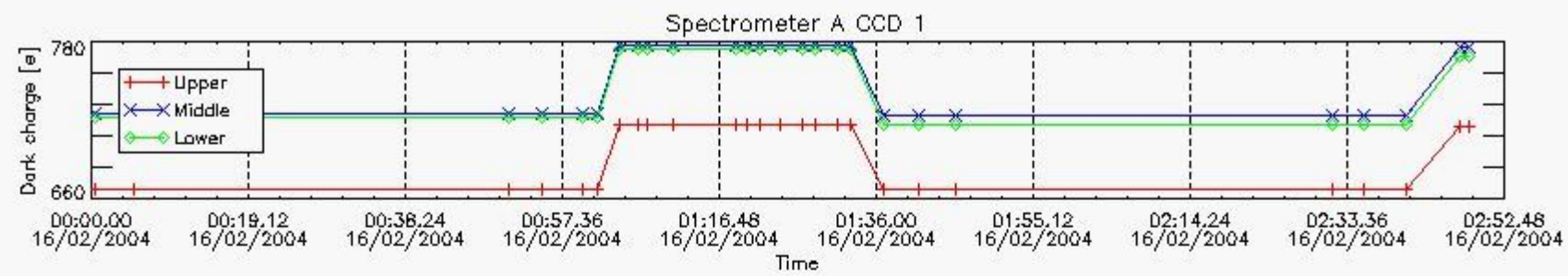
4. Overview of dark signal processing per product

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



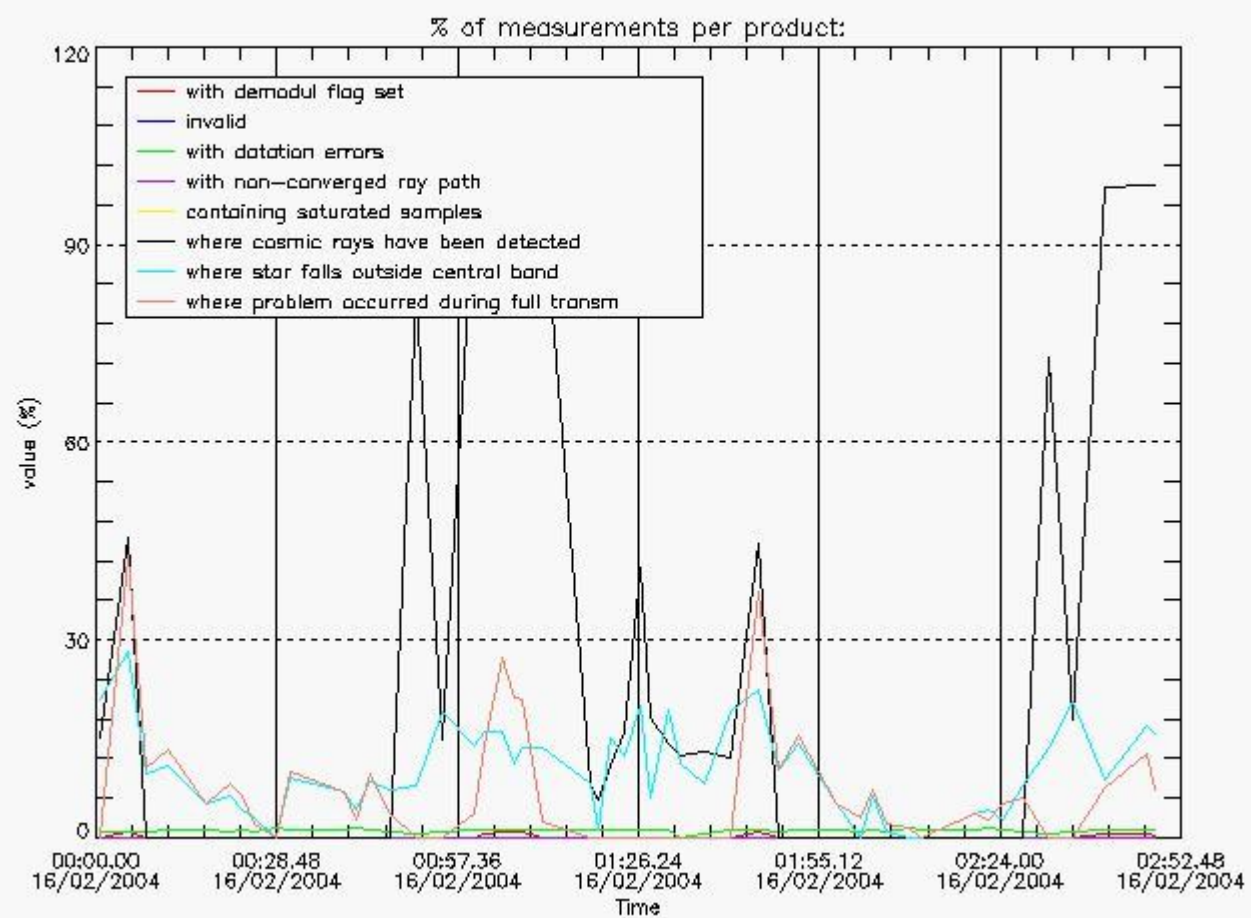
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.0000 %
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



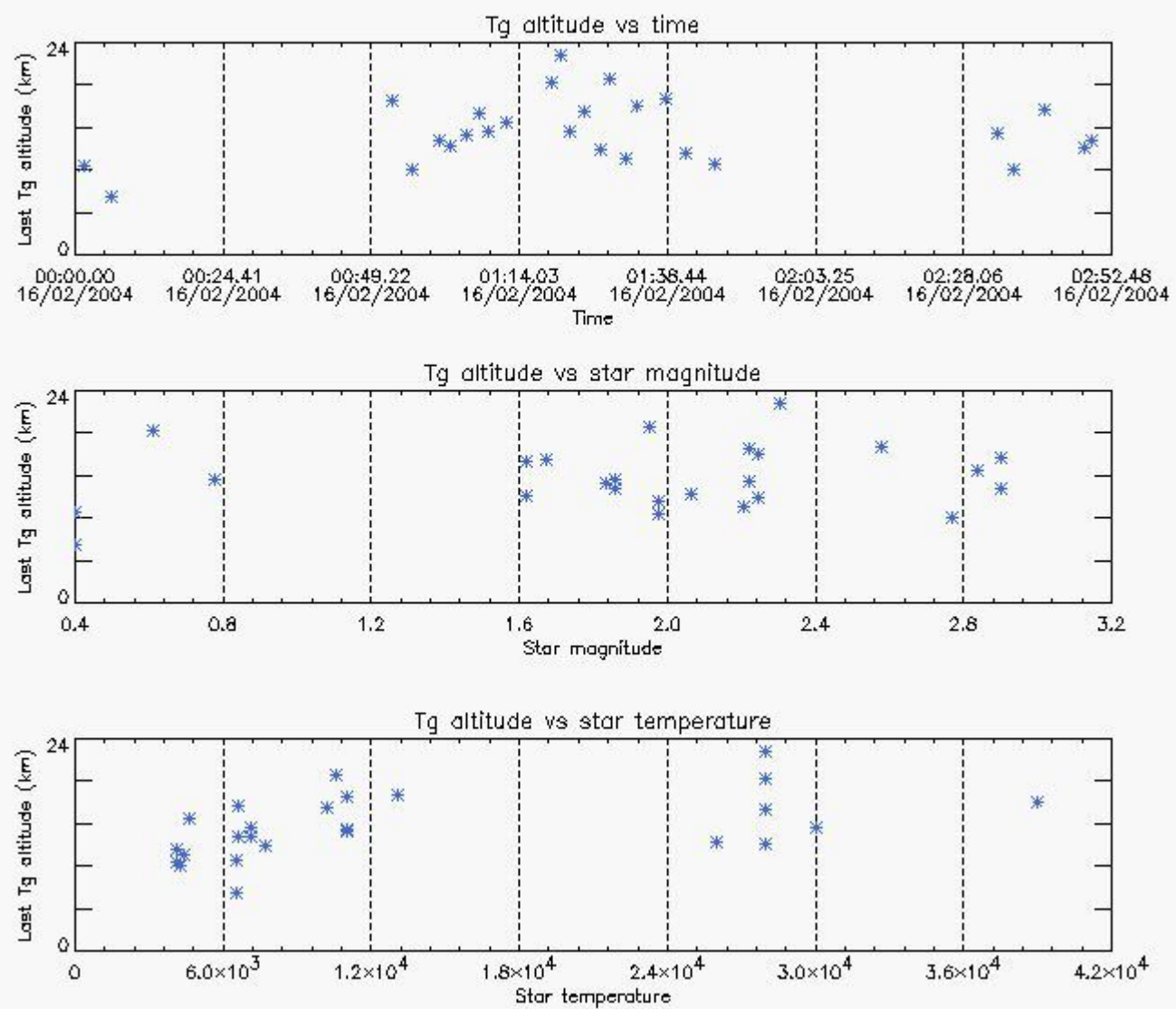
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.959	21.100
St. deviation:	3.6713	3.6775
Maximum:	22.504	27.766
Minimum:	6.6527	13.977
Number of data:	26.000	24.000

6.2 Plot for DARK limb products

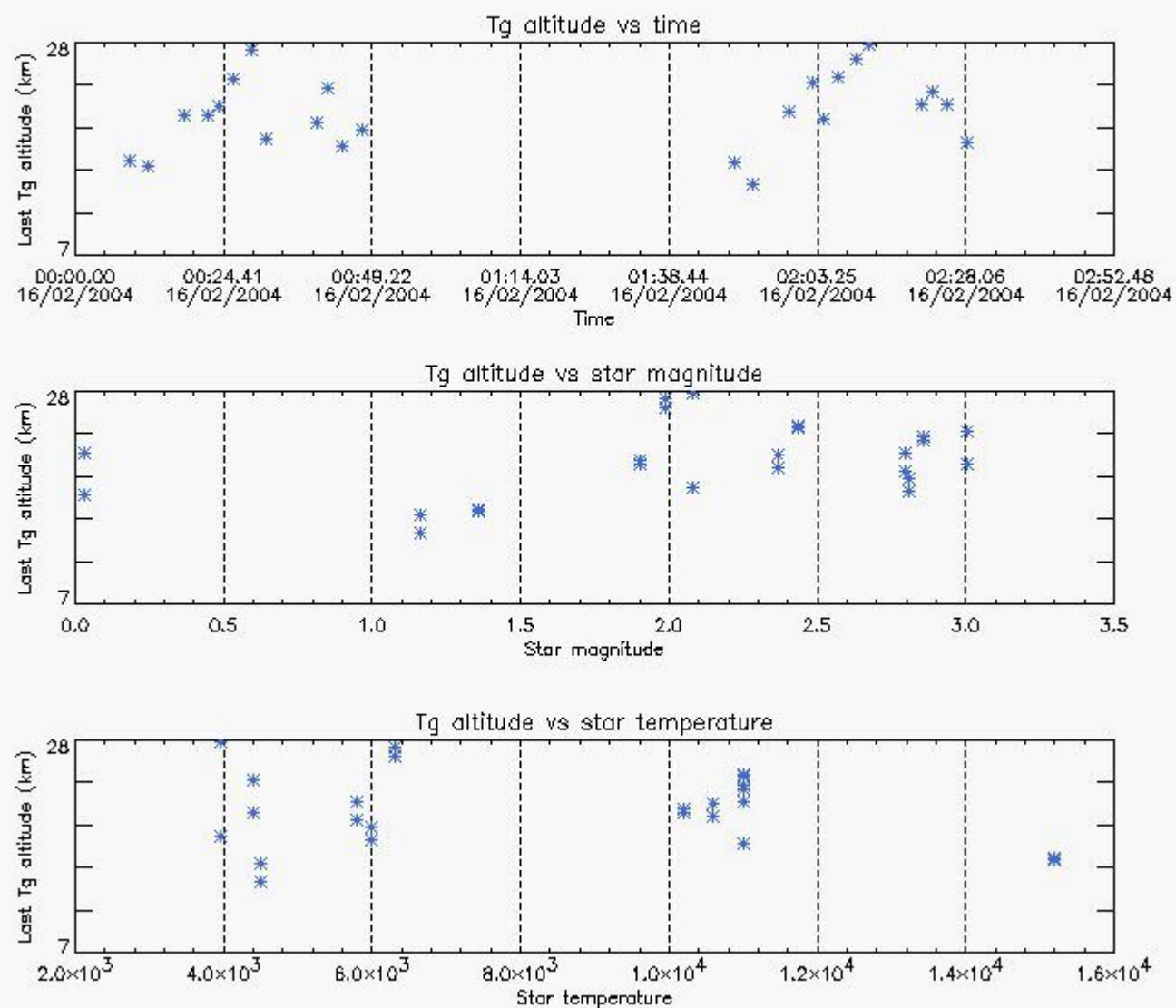
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



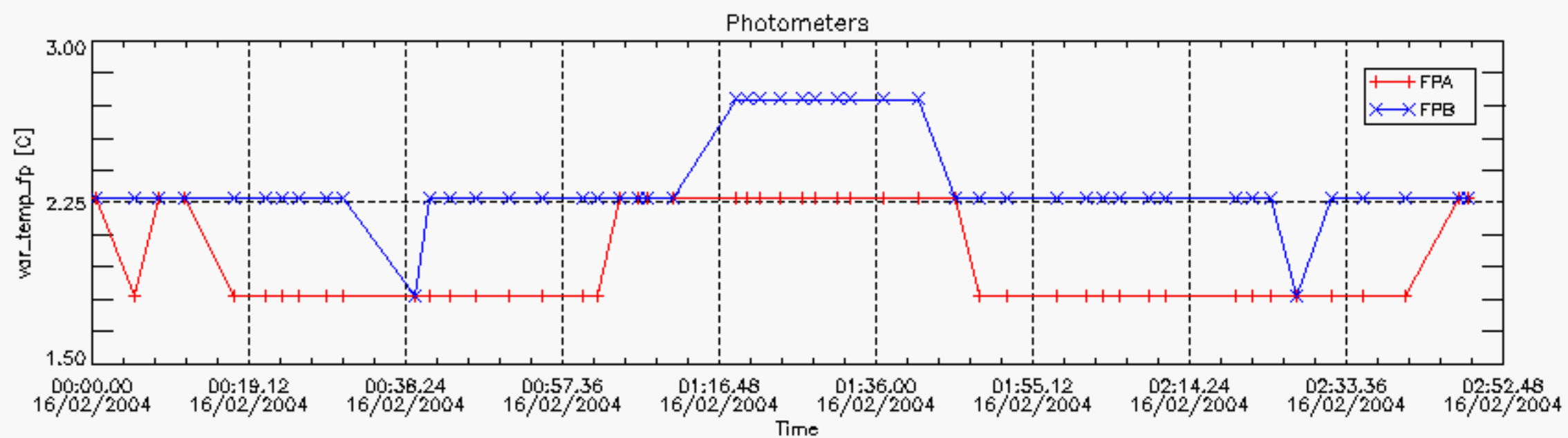
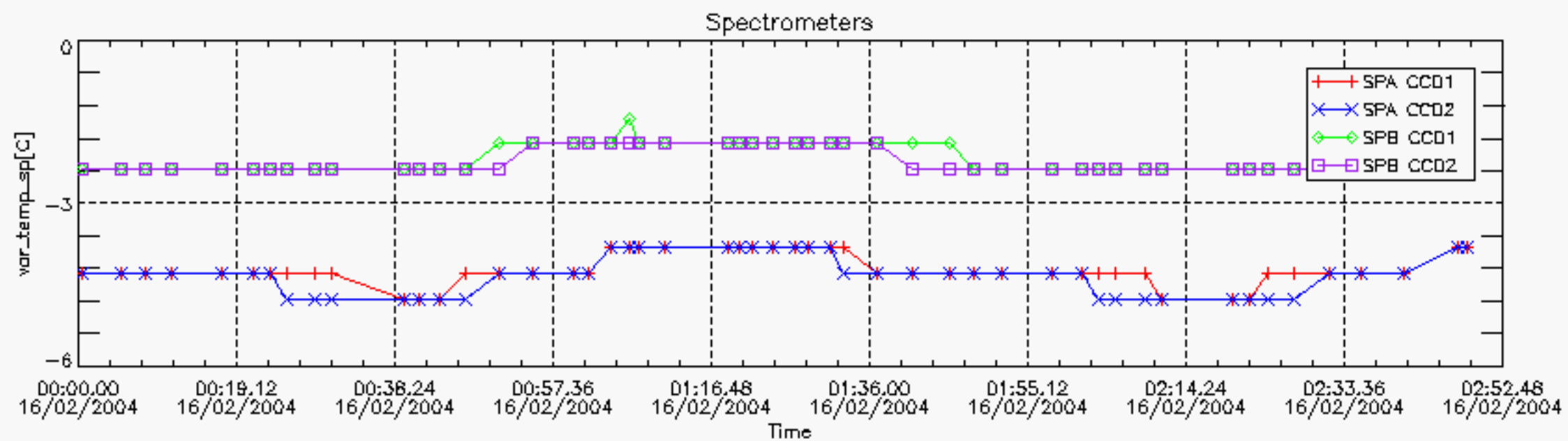
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

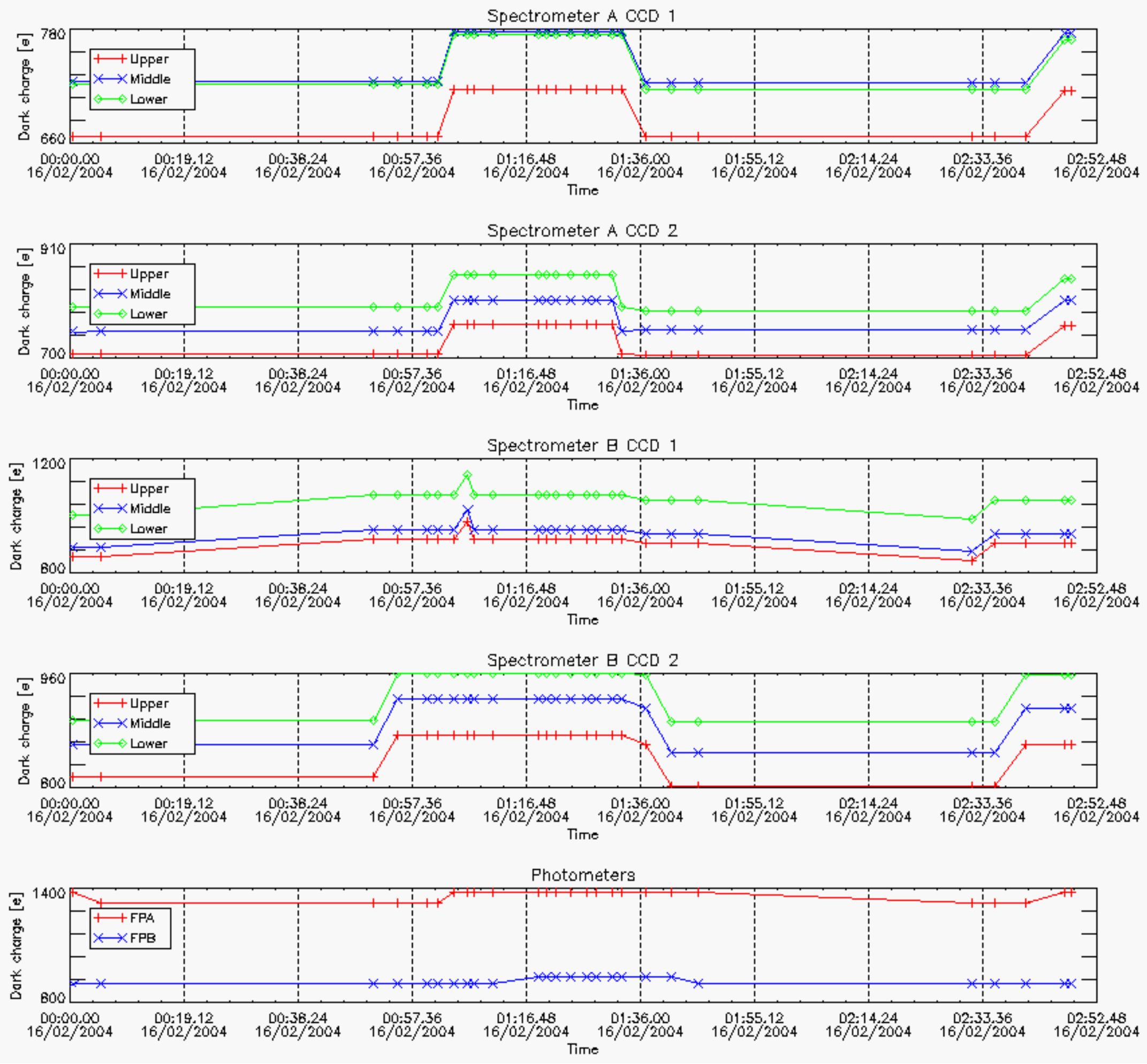
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

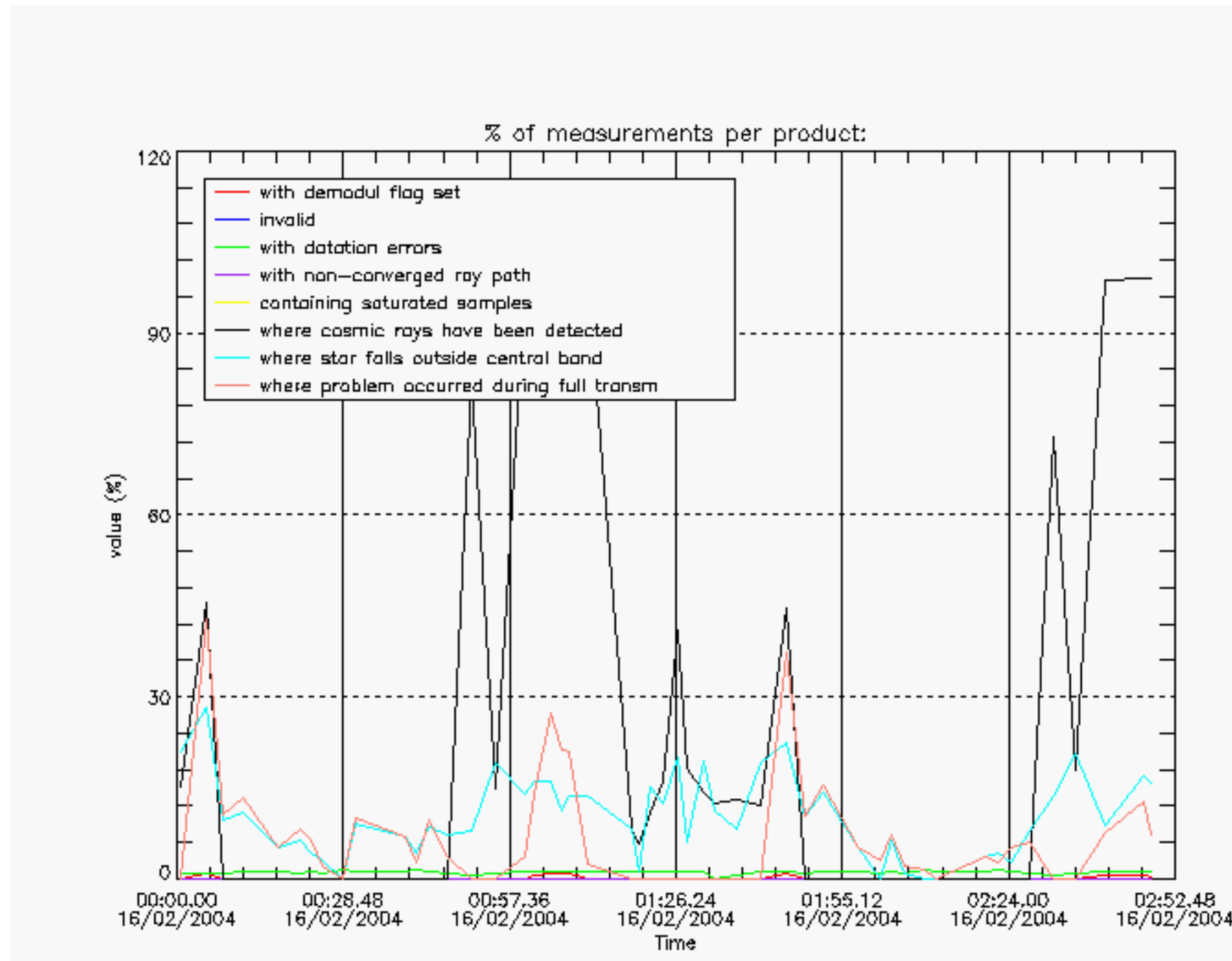
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.1	1447.3	1461.6	1447.6
St. deviation:	4.9388	7.3301	6.6735	8.9954
Maximum:	1498.0	1572.0	1516.0	1513.0
Minimum:	1449.0	1426.0	1437.0	1400.0
Number of data:	34350.	34350.	28900.	28900.



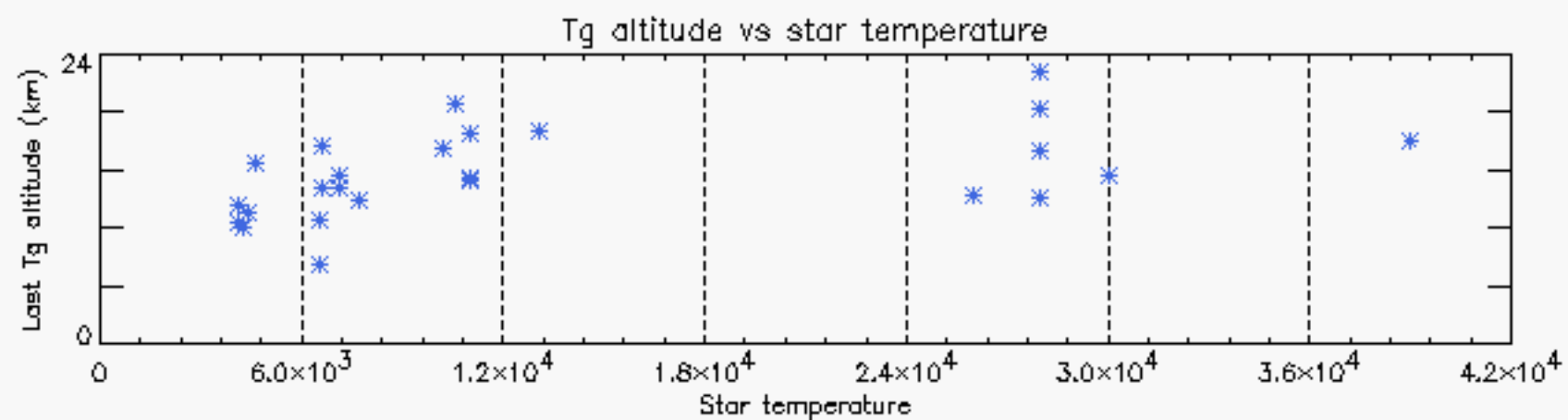
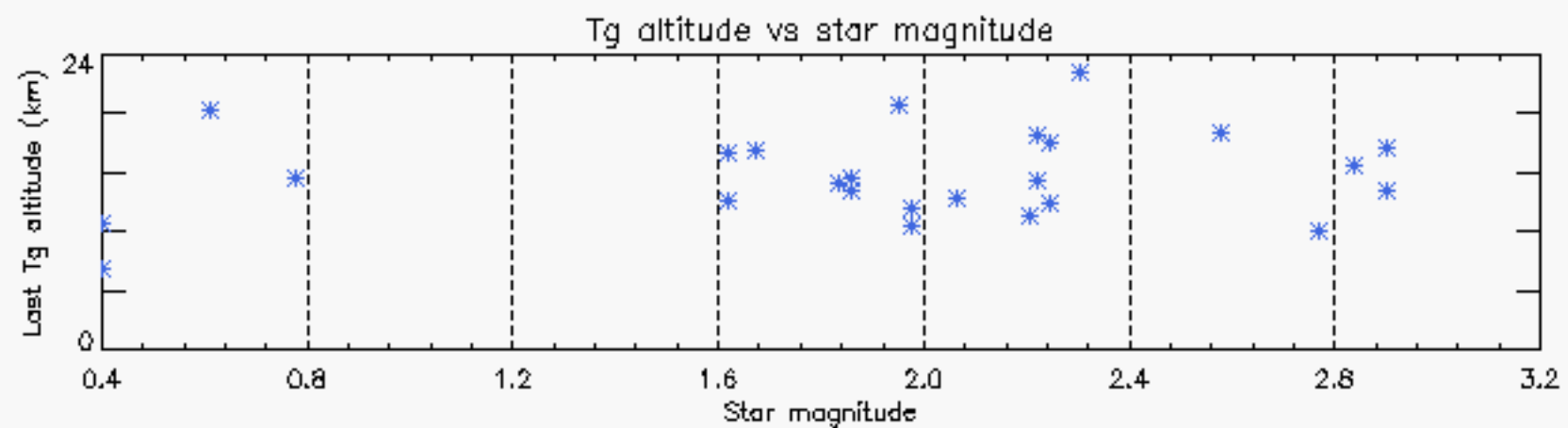
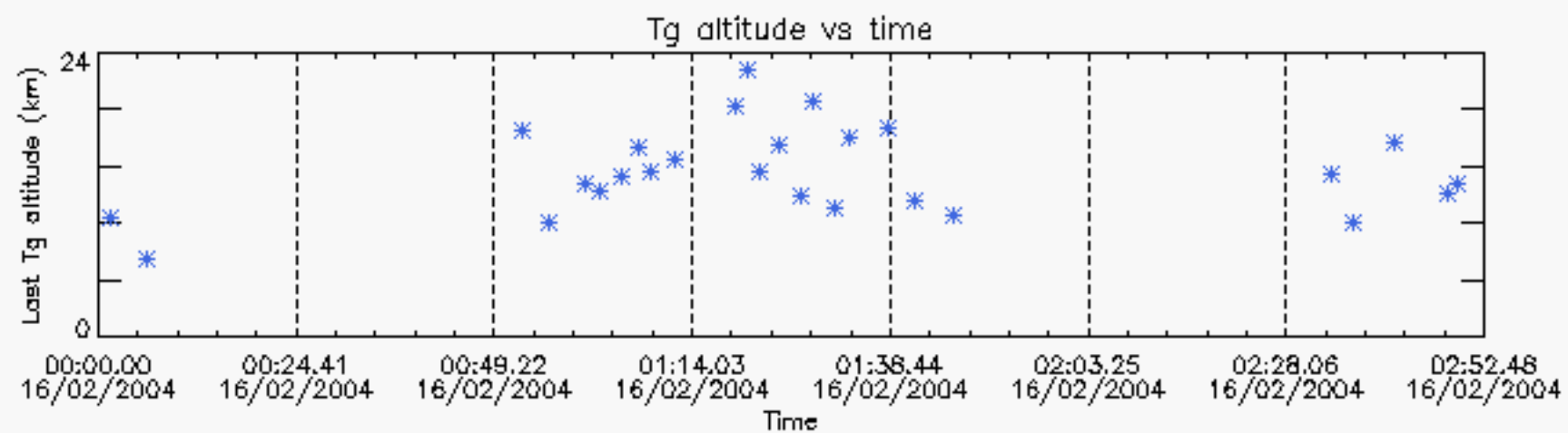




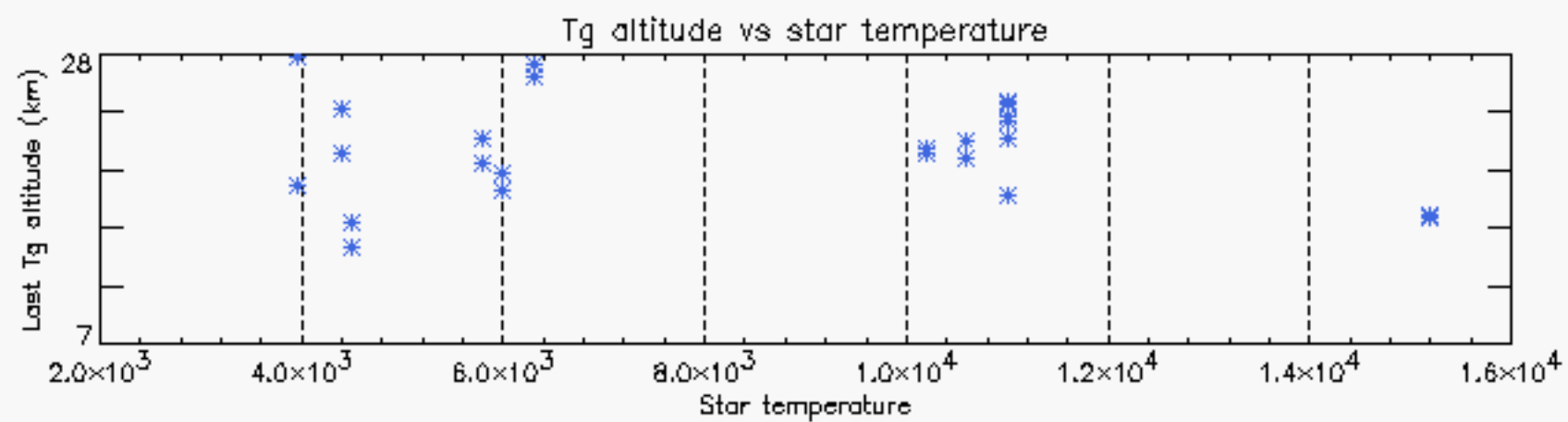
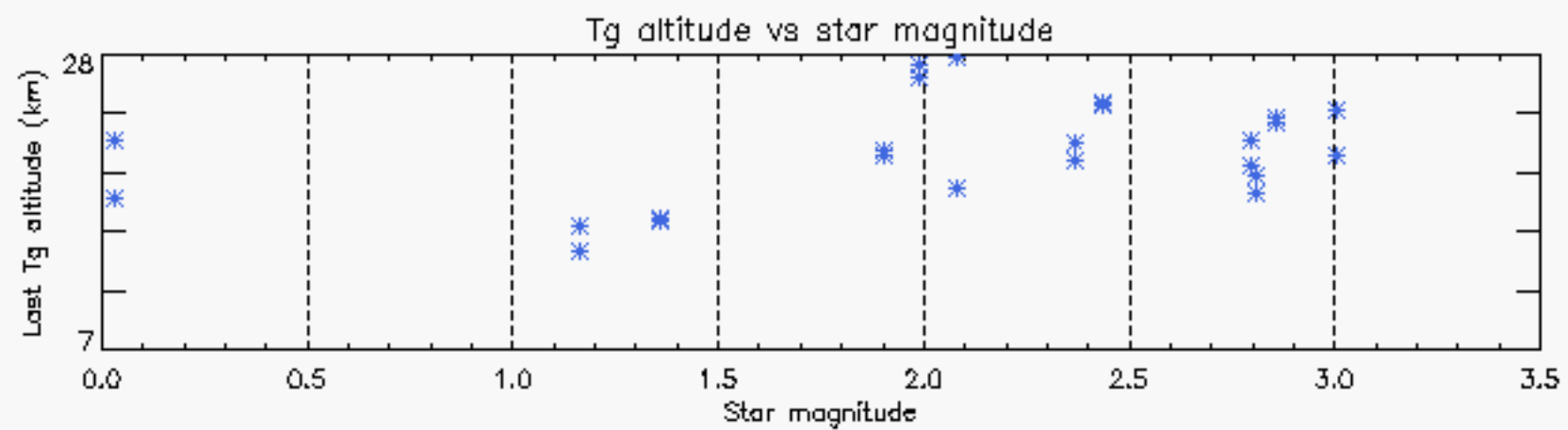
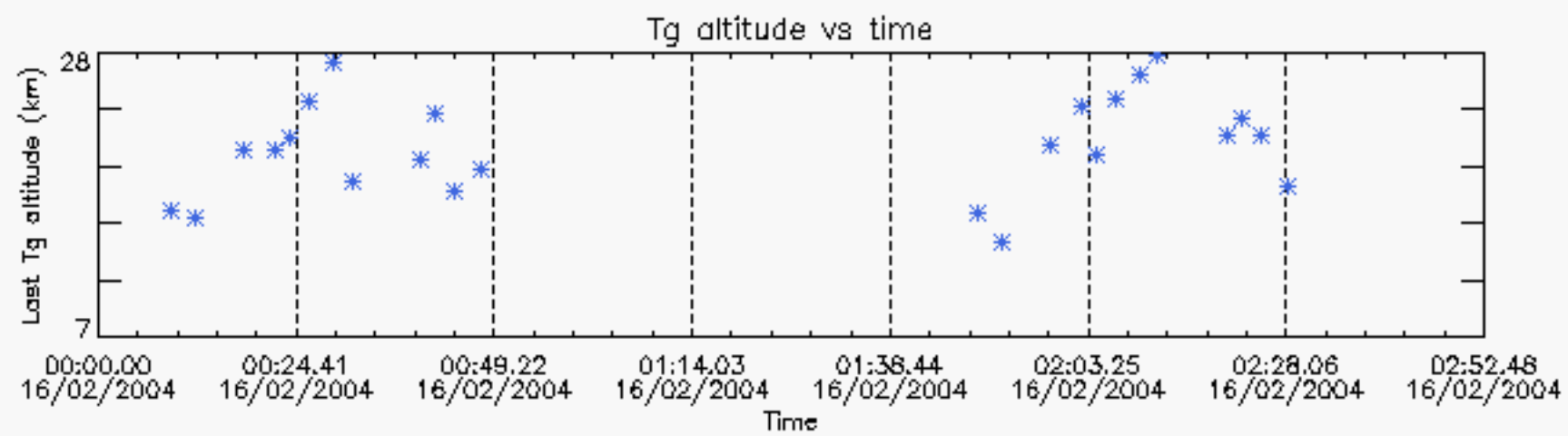




Tangent altitude at which the star is lost



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
 26; -119.6; 01-FEB-2004 07:23:51; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;10051
 27; 192.5; 01-FEB-2004 07:29:03; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;10052
 28; 272.8; 01-FEB-2004 07:30:24; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;10052
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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
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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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19;	-1200.6;	08-FEB-2004	10:06:55;	Dark	;	187.5;	83;		;	2.38;	11000;occ;	375;	0;	10153
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21;	-558.8;	08-FEB-2004	10:17:37;	Dark	;	46.5;	116;	19Del Sgr	;	2.70;	4100;occ;	93;	0;	10153
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25;	-187.2;	08-FEB-2004	10:23:48;	Dark	;	38.0;	147;	Alp Ara	;	2.88;	26000;occ;	76;	0;	10153
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
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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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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
11;	-2608.4;	08-FEB-2004	11:24:03;	Bright;		38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	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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15;	-1861.4;	08-FEB-2004	11:36:30;	Bright;		36.5;	144;	18Del Cyg	;	2.86;	11000;occ;	73;	0;	10154
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
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20;	-665.6;	08-FEB-2004	11:56:26;	Dark	;	47.0;	86;	35Eta Oph	;	2.43;	10200;occ;	94;	0;	10154
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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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13;	-2370.0;	18-FEB-2004	16:15:27;	Bright;		68.5;	39;	85Eta UMa	;	1.85;	24000;occ;	137;	0;	10300
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18;	-1512.6;	18-FEB-2004	16:29:44;	Bright;		60.0;	133;	40Zet Her	;	2.81;	6000;occ;	120;	0;	10300
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21;	-709.4;	18-FEB-2004	16:43:07;	Dark	;	40.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	80;	0;	10300
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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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11;-2261.6; 29-FEB-2004 07:08:17; Bright; 48.0; 119; 14Eta Dra ; 2.73; 4700;occ; 96; 0;10452
12;-2154.8; 29-FEB-2004 07:10:04; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;10452
13;-1999.5; 29-FEB-2004 07:12:39; Bright; 47.0; 130; 23Bet Dra ; 2.80; 5800;occ; 94; 0;10452
14;-1849.4; 29-FEB-2004 07:15:09; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;10452
15;-1755.4; 29-FEB-2004 07:16:43; Bright; 38.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 77; 0;10452
16;-1662.8; 29-FEB-2004 07:18:16; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;10452
17;-1483.1; 29-FEB-2004 07:21:15; Bright; 81.0; 133; 40Zet Her ; 2.81; 6000;occ; 162; 0;10452
18;-1242.0; 29-FEB-2004 07:25:16; Bright; 39.0; 168; 17Zet Aql ; 2.99; 11000;occ; 78; 0;10452
19;-1045.9; 29-FEB-2004 07:28:32; Dark ; 67.0; 59; 55Alp Oph ; 2.08; 8900;occ; 134; 0;10452
20; -893.3; 29-FEB-2004 07:31:05; Dark ; 67.5; 126; 60Bet Oph ; 2.77; 4250;occ; 135; 0;10452
21; -654.4; 29-FEB-2004 07:35:04; Dark ; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;10452
22; -545.5; 29-FEB-2004 07:36:53; Dark ; 41.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 82; 0;10452
23; -359.9; 29-FEB-2004 07:39:58; Dark ; 51.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 103; 0;10452
24; -190.4; 29-FEB-2004 07:42:48; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;10452
25; 120.3; 29-FEB-2004 07:47:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10453
26; 351.9; 29-FEB-2004 07:51:50; Dark ; 38.0; 145; Gam TrA ; 2.87; 10600;occ; 76; 0;10453
27; 429.0; 29-FEB-2004 07:53:07; Dark ; 48.0; 4; Alp1Cen ;-0.01; 5800;occ; 96; 0;10453
28; 507.9; 29-FEB-2004 07:54:26; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;10453
29; 663.9; 29-FEB-2004 07:57:02; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;10453
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31; 916.5; 29-FEB-2004 08:01:15; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;10453
32; 1007.4; 29-FEB-2004 08:02:46; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;10453
33; 1181.4; 29-FEB-2004 08:05:40; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;10453
34; 1330.2; 29-FEB-2004 08:08:08; Dark ; 72.0; 106; 9Bet Crv ; 2.65; 5600;occ; 144; 0;10453
35; 1515.0; 29-FEB-2004 08:11:13; Dark ; 68.0; 100; 4Gam Crv ; 2.58; 13100;occ; 136; 0;10453
36; 1751.7; 29-FEB-2004 08:15:10; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;10453

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