

GOMOS Daily Report 19-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	20FEB2004 06:56:24
Data source version	<Any version>
Start time of products	19-FEB-2004 (19FEB2004 00:00:00)
Stop time of products	20-FEB-2004 (20FEB2004 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

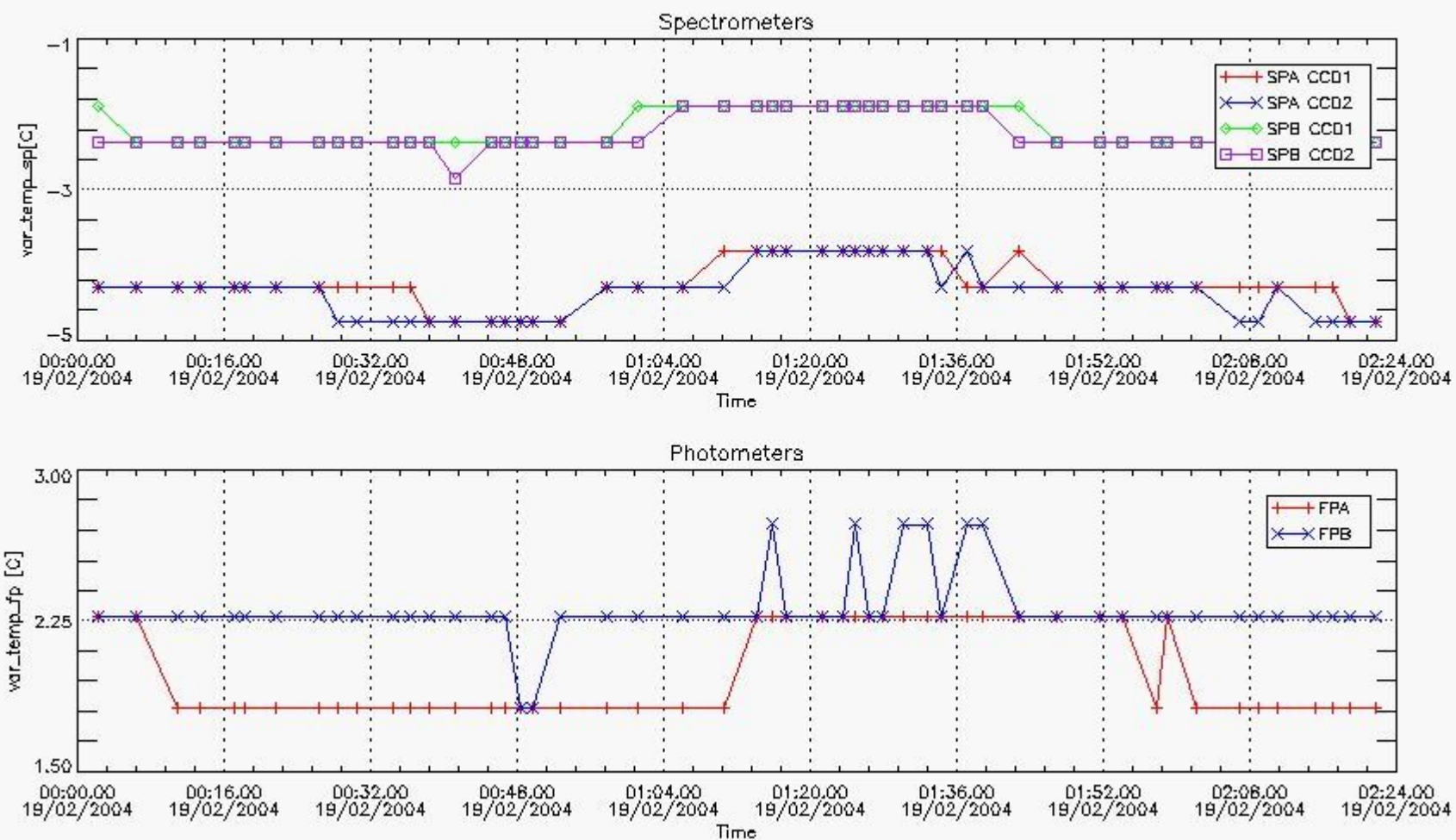
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040219_000209_000000922024_00231_10305_0000.N1	19-FEB-2004 00:02:09	Dark	91.500	100	4Gam Crv	2.5800	13100.	183	10305	No
GOM_TRA_1PNPDE20040219_000620_000000492024_00231_10305_0001.N1	19-FEB-2004 00:06:20	Dark	48.500	48	30Alp Hya	1.9770	4100.0	97	10305	No
GOM_TRA_1PNPDE20040219_001057_000000452024_00231_10305_0002.N1	19-FEB-2004 00:10:57	Bright	45.000	8	10Alp CMi	0.40000	6500.0	90	10305	No
GOM_TRA_1PNPDE20040219_001325_000000512024_00231_10305_0003.N1	19-FEB-2004 00:13:25	Bright	51.000	22	32Alp Leo	1.3600	15200.	102	10305	No
GOM_TRA_1PNPDE20040219_001712_000000402024_00231_10305_0004.N1	19-FEB-2004 00:17:12	Bright	39.500	17	78Bet Gem	1.1610	4500.0	79	10305	No
GOM_TRA_1PNPDE20040219_001821_000000382024_00231_10305_0005.N1	19-FEB-2004 00:18:21	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	10305	No
GOM_TRA_1PNPDE20040219_002133_000001082024_00231_10305_0006.N1	19-FEB-2004 00:21:33	Bright	108.00	62	94Bet Leo	2.1360	9700.0	216	10305	No
GOM_TRA_1PNPDE20040219_002619_000000512024_00231_10305_0007.N1	19-FEB-2004 00:26:19	Bright	50.500	174	52Psi UMa	3.0040	4400.0	101	10305	No
GOM_TRA_1PNPDE20040219_002826_000000452024_00231_10305_0008.N1	19-FEB-2004 00:28:26	Bright	44.500	82	48Bet UMa	2.3650	10600.	89	10305	No
GOM_TRA_1PNPDE20040219_003024_000000502024_00231_10305_0009.N1	19-FEB-2004 00:30:24	Bright	49.500	87	64Gam UMa	2.4330	11000.	99	10305	No
GOM_TRA_1PNPDE20040219_003430_000000372024_00231_10305_0010.N1	19-FEB-2004 00:34:30	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	10305	No
GOM_TRA_1PNPDE20040219_003622_000000422024_00231_10305_0011.N1	19-FEB-2004 00:36:22	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	10305	No
GOM_TRA_1PNPDE20040219_003820_000000672024_00231_10305_0012.N1	19-FEB-2004 00:38:20	Bright	67.000	39	85Eta UMa	1.8540	24000.	134	10305	No
GOM_TRA_1PNPDE20040219_004112_000000452024_00231_10305_0013.N1	19-FEB-2004 00:41:12	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	10305	No
GOM_TRA_1PNPDE20040219_004507_000000432024_00231_10305_0014.N1	19-FEB-2004 00:45:07	Bright	42.500	130	23Bet Dra	2.7990	5800.0	85	10305	No
GOM_TRA_1PNPDE20040219_004643_000000362024_00231_10305_0015.N1	19-FEB-2004 00:46:43	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	10305	No
GOM_TRA_1PNPDE20040219_004818_000000352024_00231_10305_0016.N1	19-FEB-2004 00:48:18	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	10305	No
GOM_TRA_1PNPDE20040219_004947_000000372024_00231_10305_0017.N1	19-FEB-2004 00:49:47	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	10305	No
GOM_TRA_1PNPDE20040219_005244_000000612024_00231_10305_0018.N1	19-FEB-2004 00:52:44	Bright	61.000	133	40Zet Her	2.8070	6000.0	122	10305	No
GOM_TRA_1PNPDE20040219_005746_000000842024_00231_10305_0019.N1	19-FEB-2004 00:57:46	Dark	84.000	127	27Bet Her	2.7810	4700.0	168	10305	No
GOM_TRA_1PNPDE20040219_010114_000000552024_00231_10305_0020.N1	19-FEB-2004 01:01:14	Dark	54.500	126	60Bet Oph	2.7700	4250.0	109	10305	No
GOM_TRA_1PNPDE20040219_010607_000000432024_00231_10305_0021.N1	19-FEB-2004 01:06:07	Dark	43.000	155	41Pi Sgr	2.9000	6600.0	86	10305	No
GOM_TRA_1PNPDE20040219_011039_000000432024_00231_10305_0022.N1	19-FEB-2004 01:10:39	Dark	42.500	38	20Eps Sgr	1.8360	11000.	85	10305	No
GOM_TRA_1PNPDE20040219_011405_000000742024_00231_10305_0023.N1	19-FEB-2004 01:14:05	Dark	74.000	16	21Alp Sco	1.0200	3000.0	148	10305	No
GOM_TRA_1PNPDE20040219_011554_000000432024_00231_10305_0024.N1	19-FEB-2004 01:15:54	Dark	42.500	147	Alp Ara	2.8770	26000.	85	10305	No
GOM_TRA_1PNPDE20040219_011718_000000442024_00231_10305_0025.N1	19-FEB-2004 01:17:18	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	10305	No
GOM_TRA_1PNPDE20040219_012114_000000422024_00232_10306_0026.N1	19-FEB-2004 01:21:14	Dark	41.500	134	Bet TrA	2.8100	6600.0	83	10306	No
GOM_TRA_1PNPDE20040219_012336_000000462024_00232_10306_0027.N1	19-FEB-2004 01:23:36	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	10306	No
GOM_TRA_1PNPDE20040219_012454_000000472024_00232_10306_0028.N1	19-FEB-2004 01:24:54	Dark	46.500	10	Bet Cen	0.61000	28000.	93	10306	No
GOM_TRA_1PNPDE20040219_012623_000000462024_00232_10306_0029.N1	19-FEB-2004 01:26:23	Dark	45.500	77	Eps Cen	2.3030	28000.	91	10306	No
GOM_TRA_1PNPDE20040219_012753_000000432024_00232_10306_0030.N1	19-FEB-2004 01:27:53	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	10306	No
GOM_TRA_1PNPDE20040219_013006_000000382024_00232_10306_0031.N1	19-FEB-2004 01:30:06	Dark	38.000	29	Bet Car	1.6720	10200.	76	10306	No
GOM_TRA_1PNPDE20040219_013245_000000402024_00232_10306_0032.N1	19-FEB-2004 01:32:45	Dark	40.000	71	lot Car	2.2460	7700.0	80	10306	No
GOM_TRA_1PNPDE20040219_013421_000000412024_00232_10306_0033.N1	19-FEB-2004 01:34:21	Dark	41.000	46	Del Vel	1.9540	10600.	82	10306	No
GOM_TRA_1PNPDE20040219_013705_000000482024_00232_10306_0034.N1	19-FEB-2004 01:37:05	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	10306	No
GOM_TRA_1PNPDE20040219_013848_000000412024_00232_10306_0035.N1	19-FEB-2004 01:38:48	Dark	40.500	70	Zet Pup	2.2460	39000.	81	10306	No
GOM_TRA_1PNPDE20040219_014246_000000932024_00232_10306_0000.N1	19-FEB-2004 01:42:46	Dark	93.000	100	4Gam Crv	2.5800	13100.	186	10306	No
GOM_TRA_1PNPDE20040219_014656_000000522024_00232_10306_0001.N1	19-FEB-2004 01:46:56	Dark	51.500	48	30Alp Hya	1.9770	4100.0	103	10306	No
GOM_TRA_1PNPDE20040219_015132_000000472024_00232_10306_0002.N1	19-FEB-2004 01:51:32	Bright	46.500	8	10Alp CMi	0.40000	6500.0	93	10306	No
GOM_TRA_1PNPDE20040219_015401_000000522024_00232_10306_0003.N1	19-FEB-2004 01:54:01	Bright	51.500	22	32Alp Leo	1.3600	15200.	103	10306	No
GOM_TRA_1PNPDE20040219_015747_000000422024_00232_10306_0004.N1	19-FEB-2004 01:57:47	Bright	41.500	17	78Bet Gem	1.1610	4500.0	83	10306	No
GOM_TRA_1PNPDE20040219_015856_000000402024_00232_10306_0005.N1	19-FEB-2004 01:58:56	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	10306	No
GOM_TRA_1PNPDE20040219_020206_000001172024_00232_10306_0006.N1	19-FEB-2004 02:02:06	Bright	116.50	62	94Bet Leo	2.1360	9700.0	233	10306	No
GOM_TRA_1PNPDE20040219_020654_000000512024_00232_10306_0007.N1	19-FEB-2004 02:06:54	Bright	50.500	174	52Psi UMa	3.0040	4400.0	101	10306	No
GOM_TRA_1PNPDE20040219_020902_000000442024_00232_10306_0008.N1	19-FEB-2004 02:09:02	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	10306	No
GOM_TRA_1PNPDE20040219_021100_000000512024_00232_10306_0009.N1	19-FEB-2004 02:11:00	Bright	50.500	87	64Gam UMa	2.4330	11000.	101	10306	No
GOM_TRA_1PNPDE20040219_021505_000000382024_00232_10306_0010.N1	19-FEB-2004 02:15:05	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	10306	No
GOM_TRA_1PNPDE20040219_021657_000000432024_00232_10306_0011.N1	19-FEB-2004 02:16:57	Bright	43.000	60	7Bet UMi	2.0810	3950.0	86	10306	No
GOM_TRA_1PNPDE20040219_021855_000000652024_00232_10306_0012.N1	19-FEB-2004 02:18:55	Bright	64.500	39	85Eta UMa	1.8540	24000.	129	10306	No
GOM_TRA_1PNPDE20040219_022147_000000472024_00232_10306_0013.N1	19-FEB-2004 02:21:47	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	10306	No

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



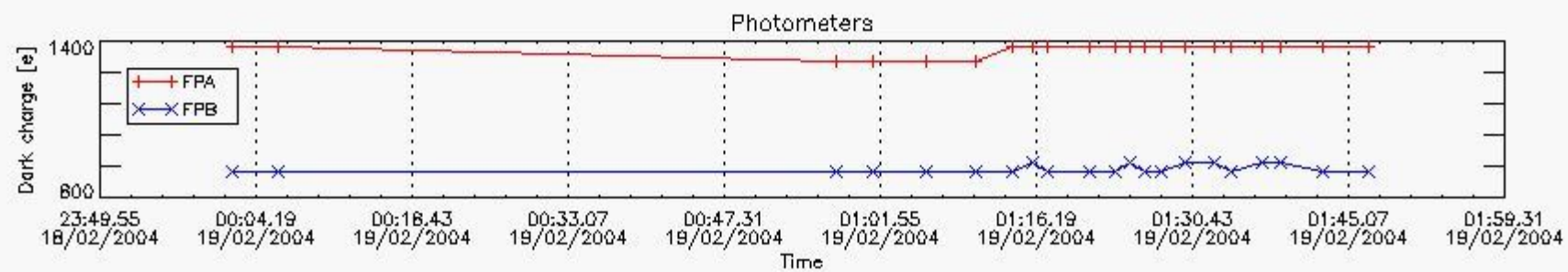
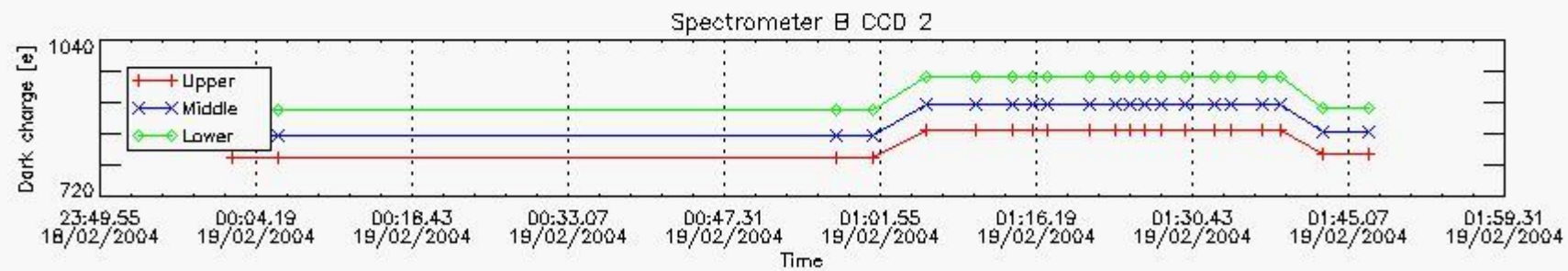
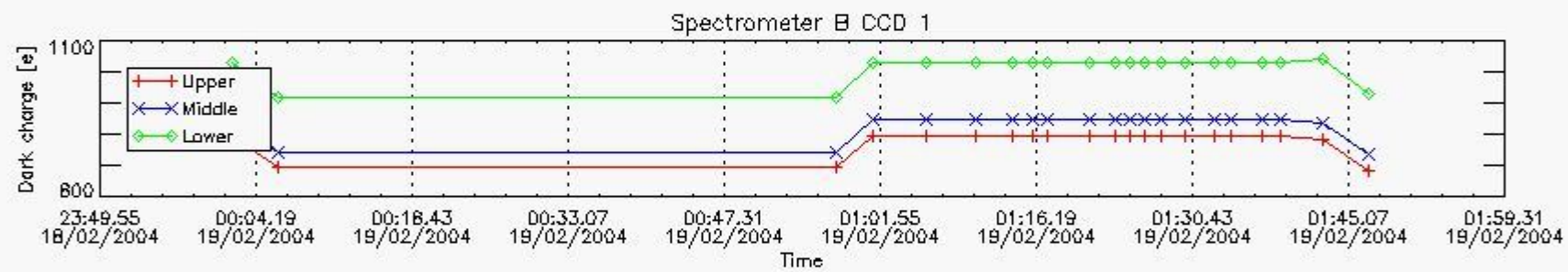
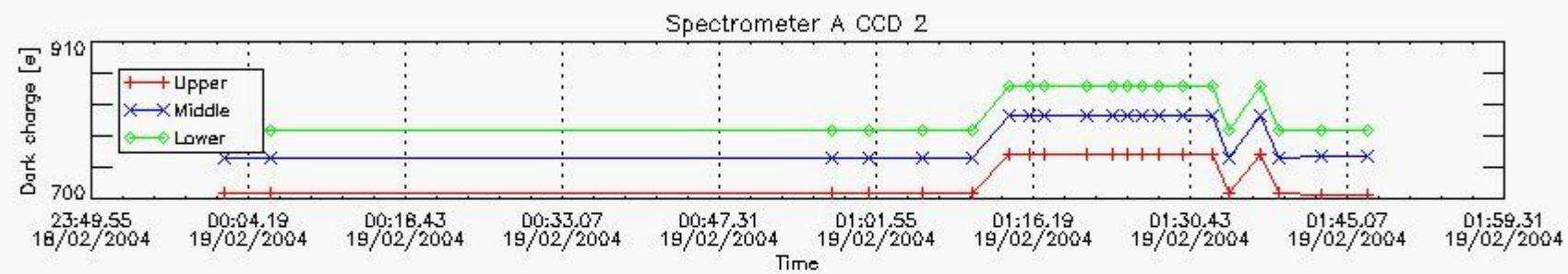
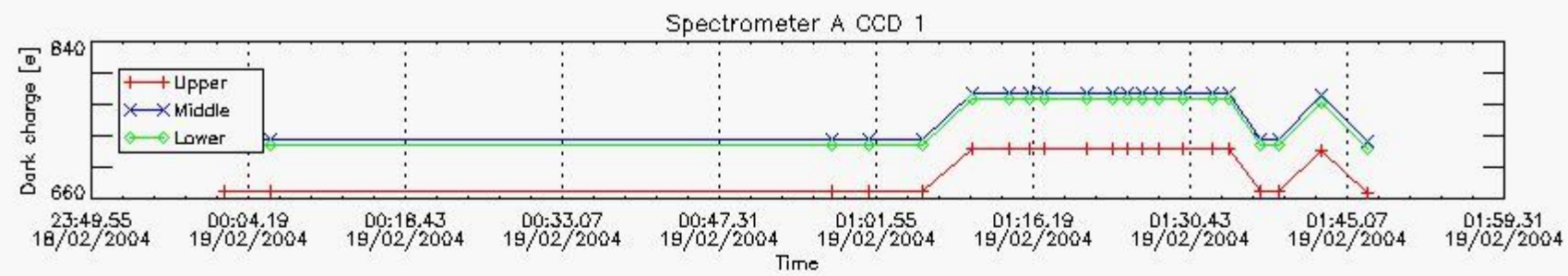
4. Overview of dark signal processing per product

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

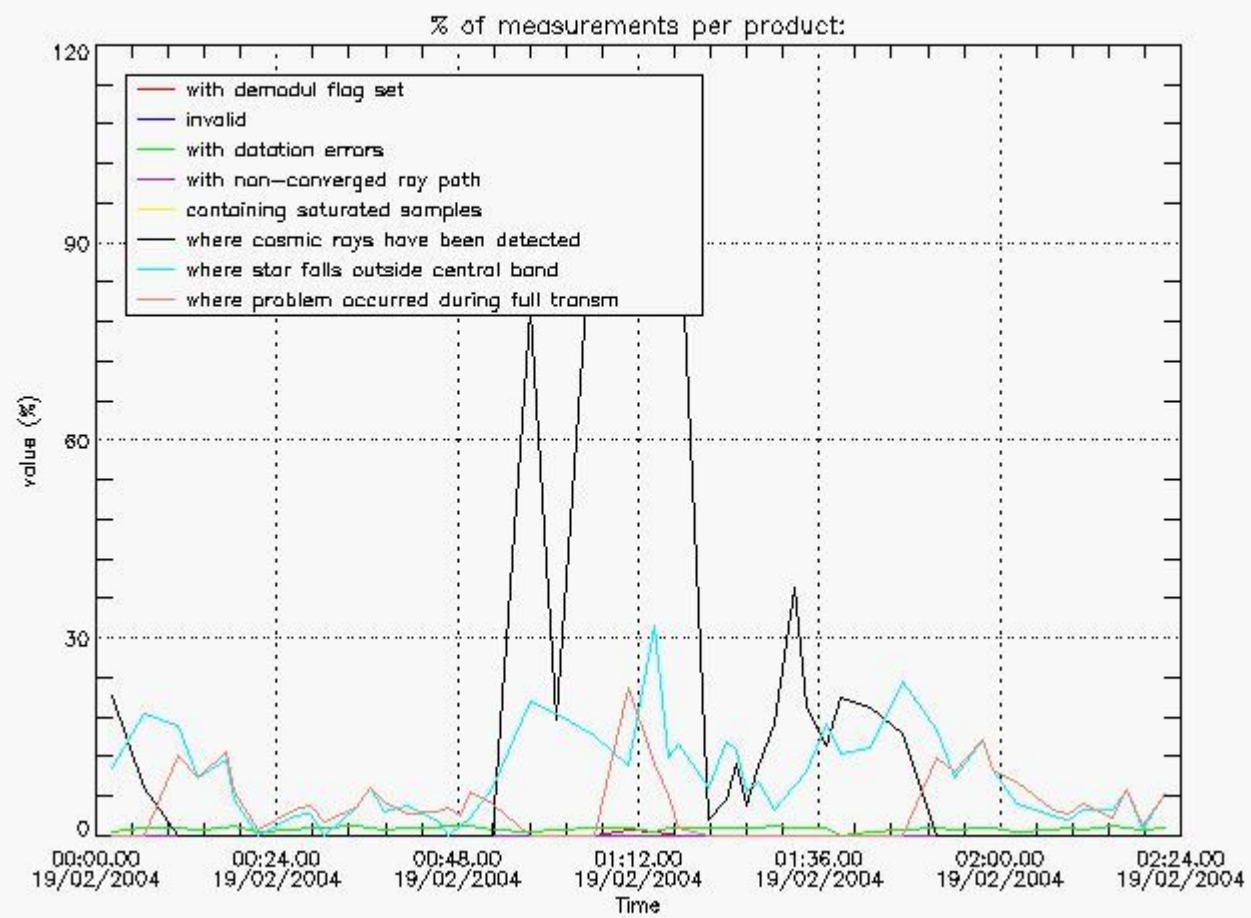


5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.0000 %
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



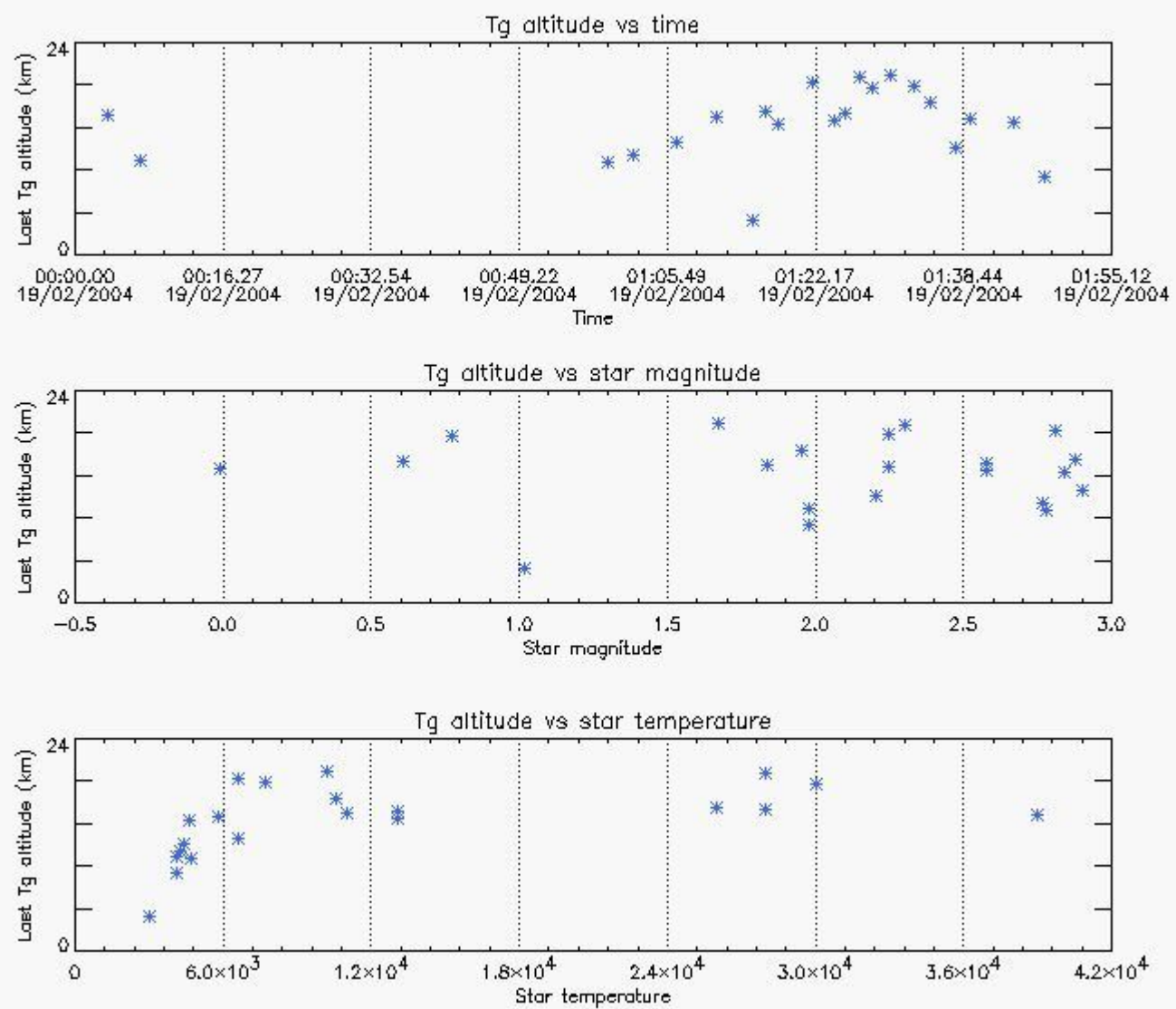
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.710	20.619
St. deviation:	4.1252	3.8936
Maximum:	20.358	26.794
Minimum:	3.9149	11.359
Number of data:	21.000	29.000

6.2 Plot for DARK limb products

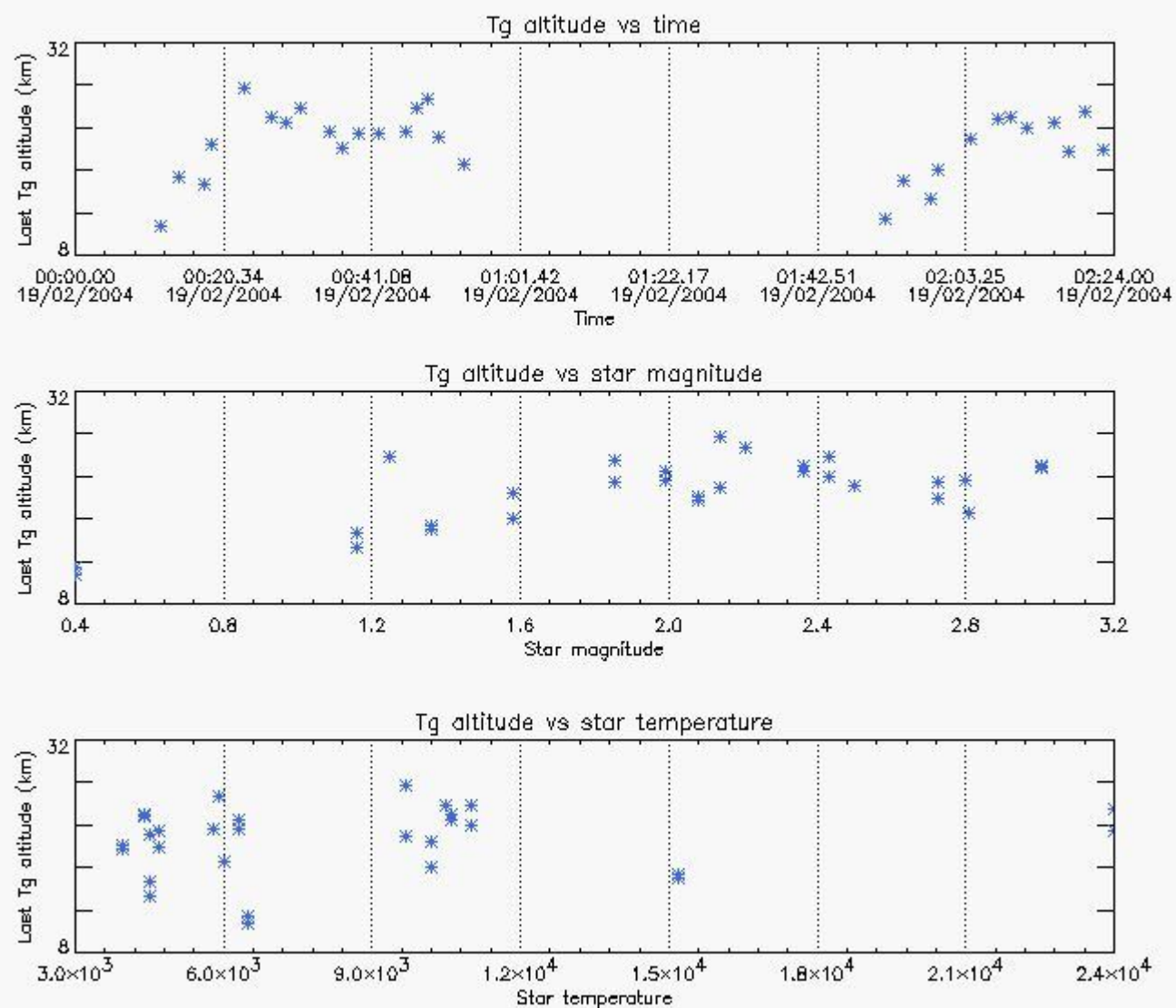
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



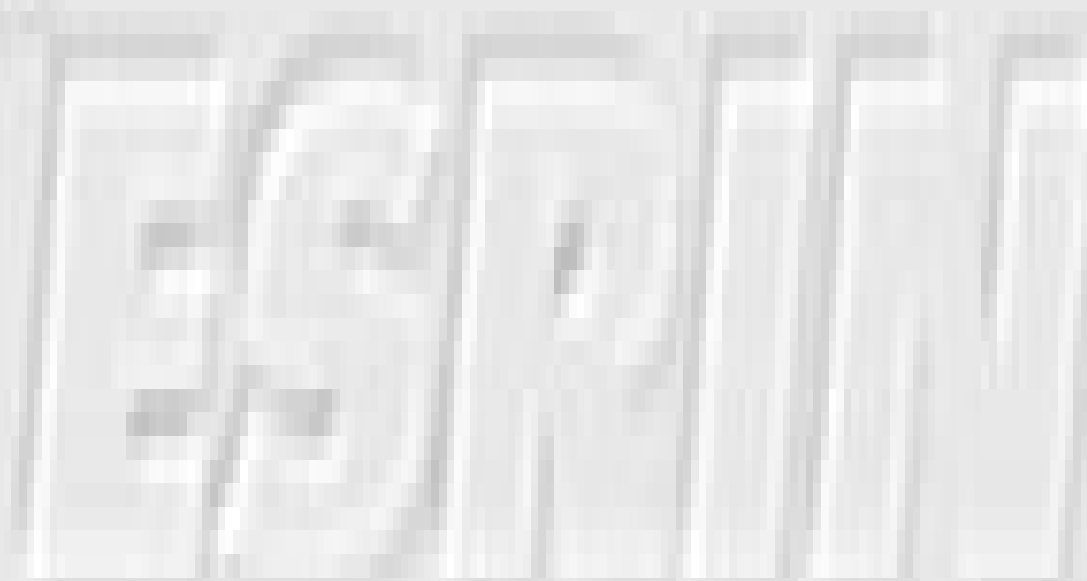
Tangent altitude at which the star is lost



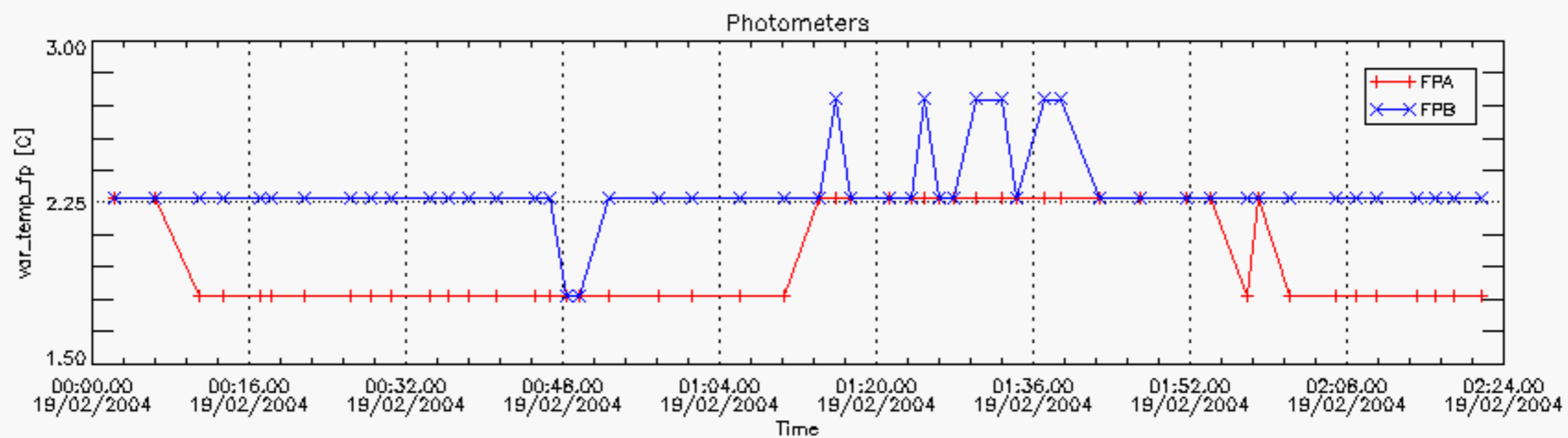
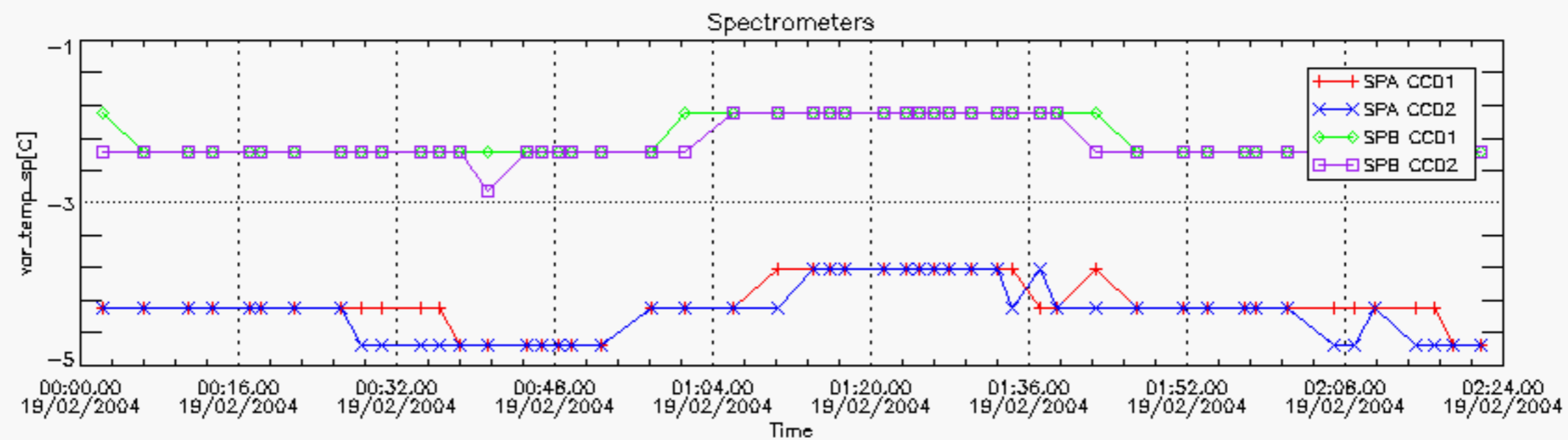
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

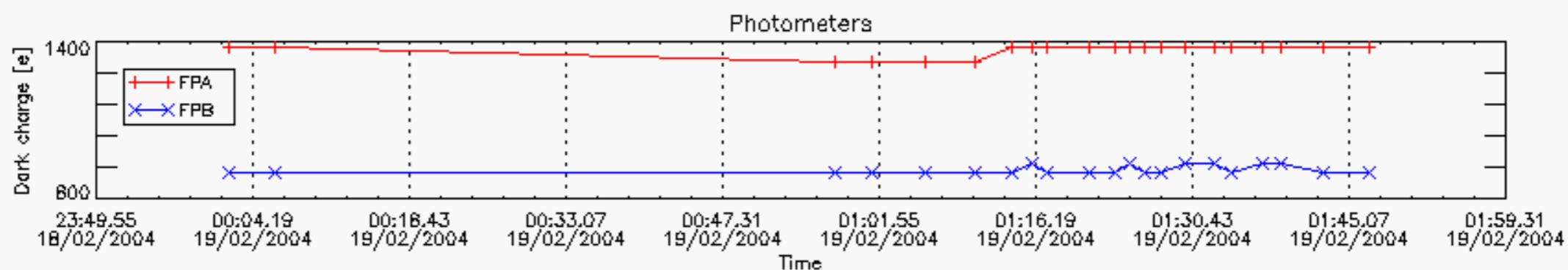
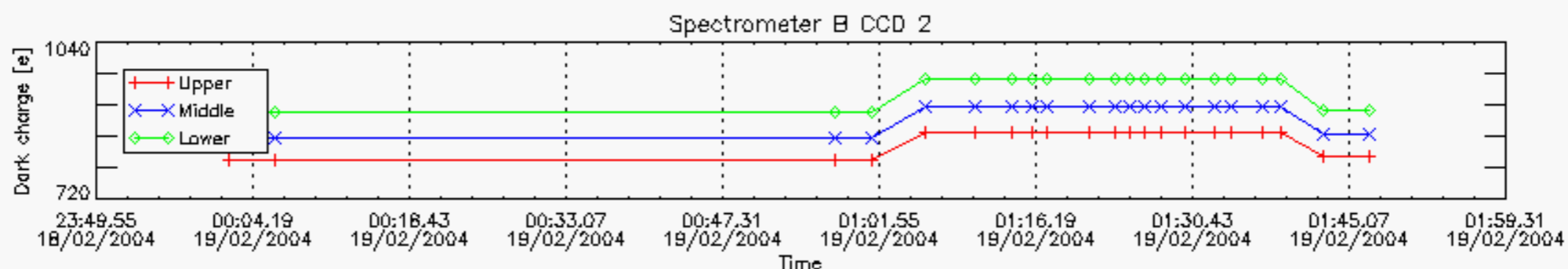
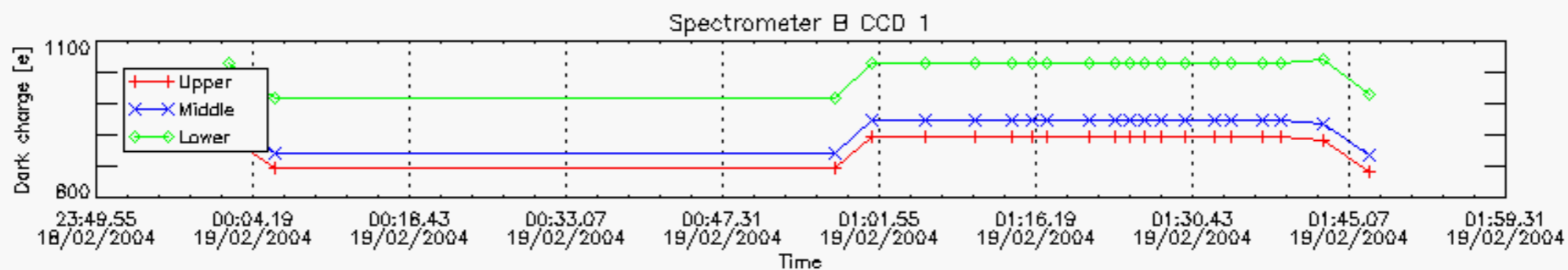
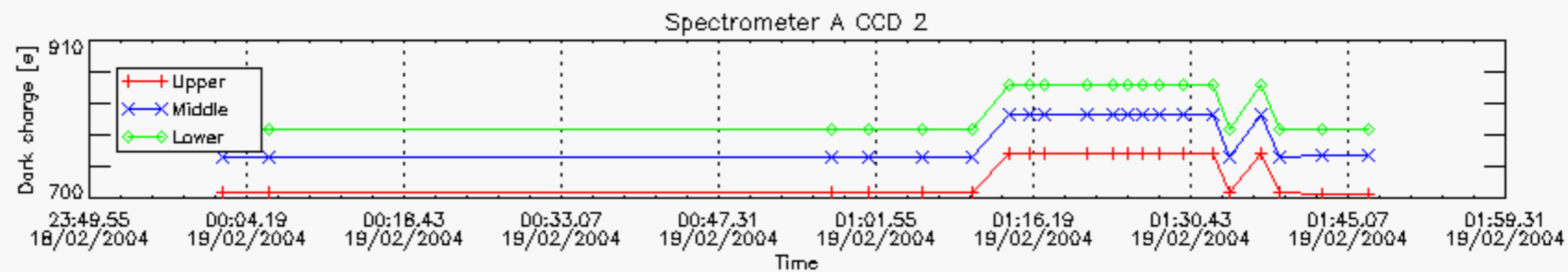
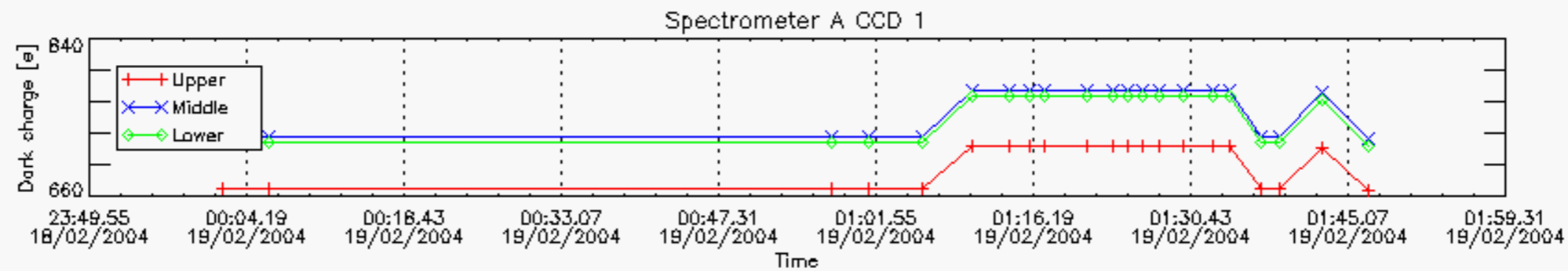
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1462.0	1447.3	1461.8	1447.7
St. deviation:	6.0648	12.305	6.2869	11.141
Maximum:	1504.0	1507.0	1503.0	1499.0
Minimum:	1456.0	1424.0	1437.0	1414.0
Number of data:	26750.	26750.	38050.	38050.

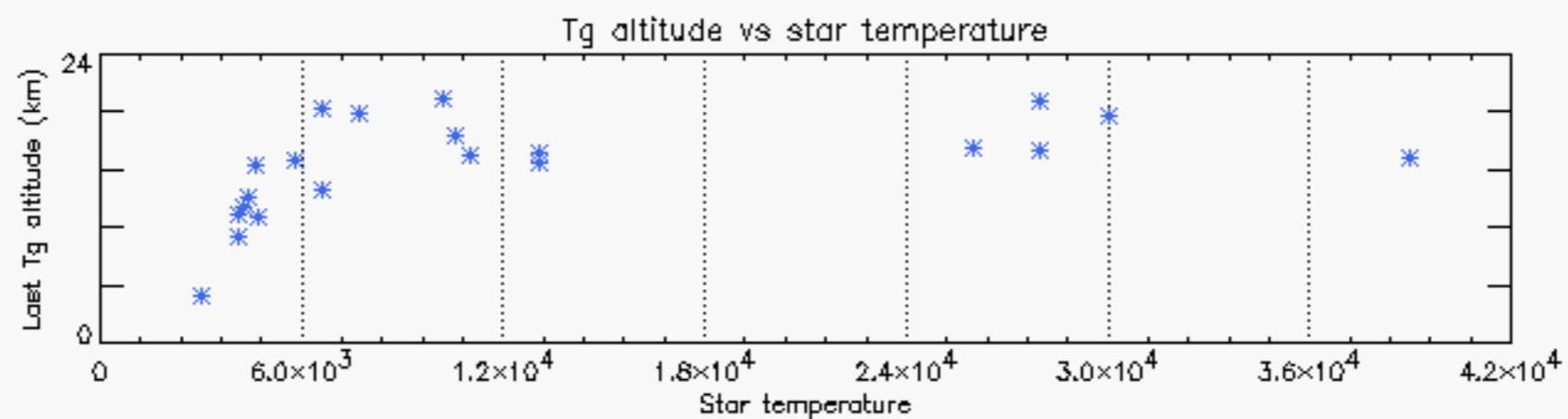
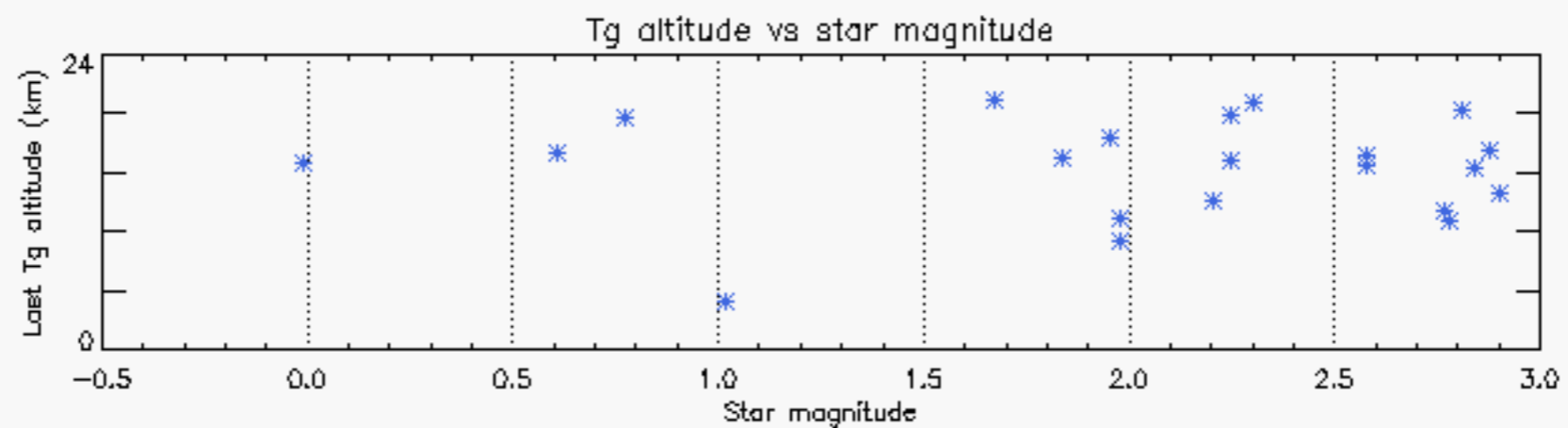
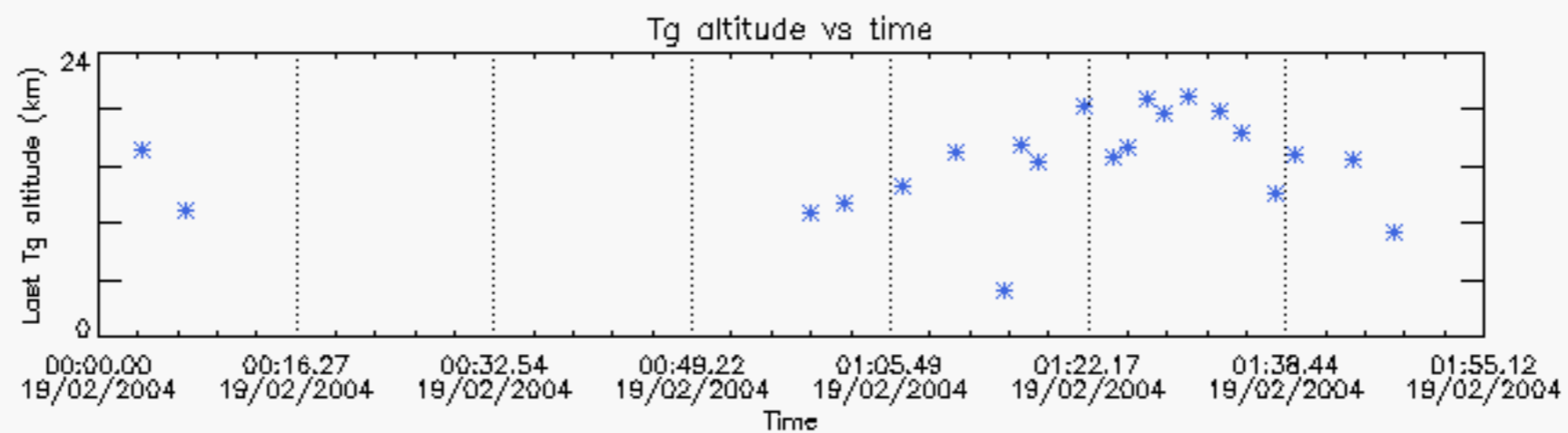




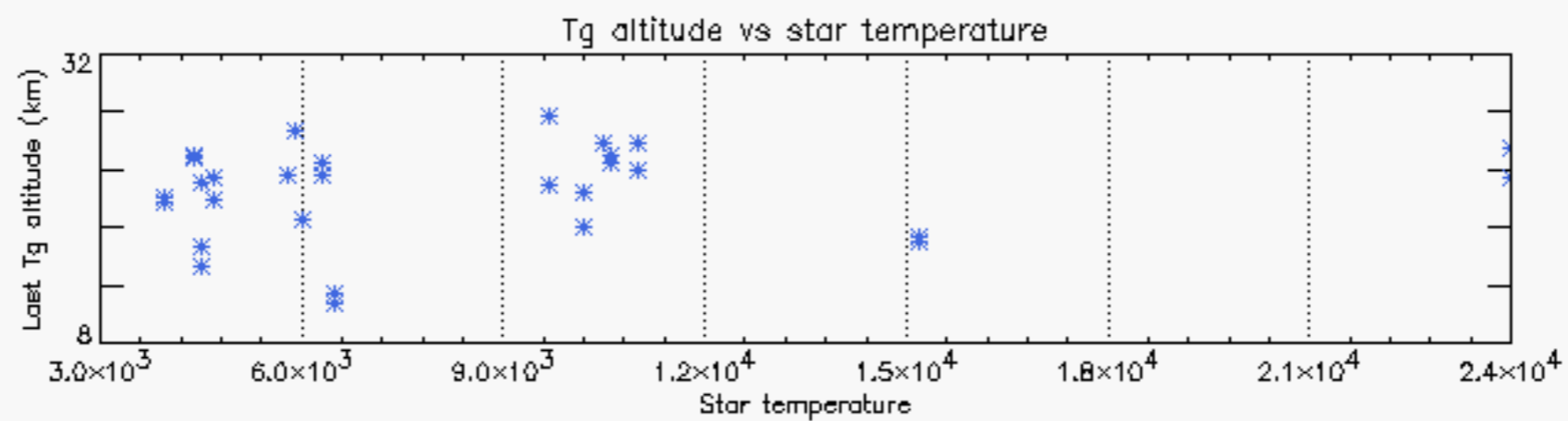
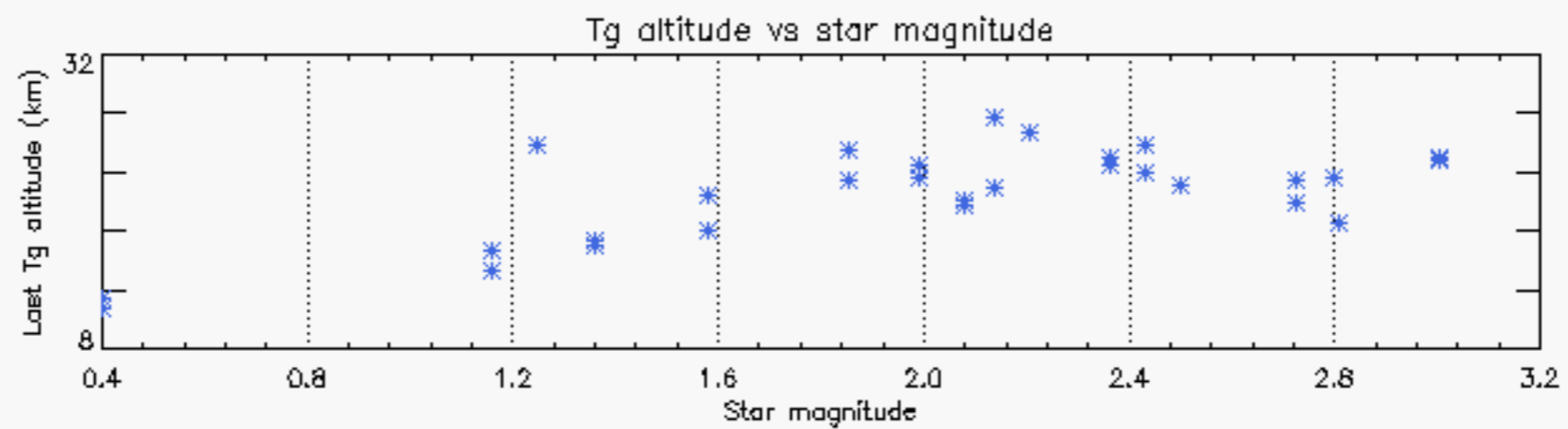
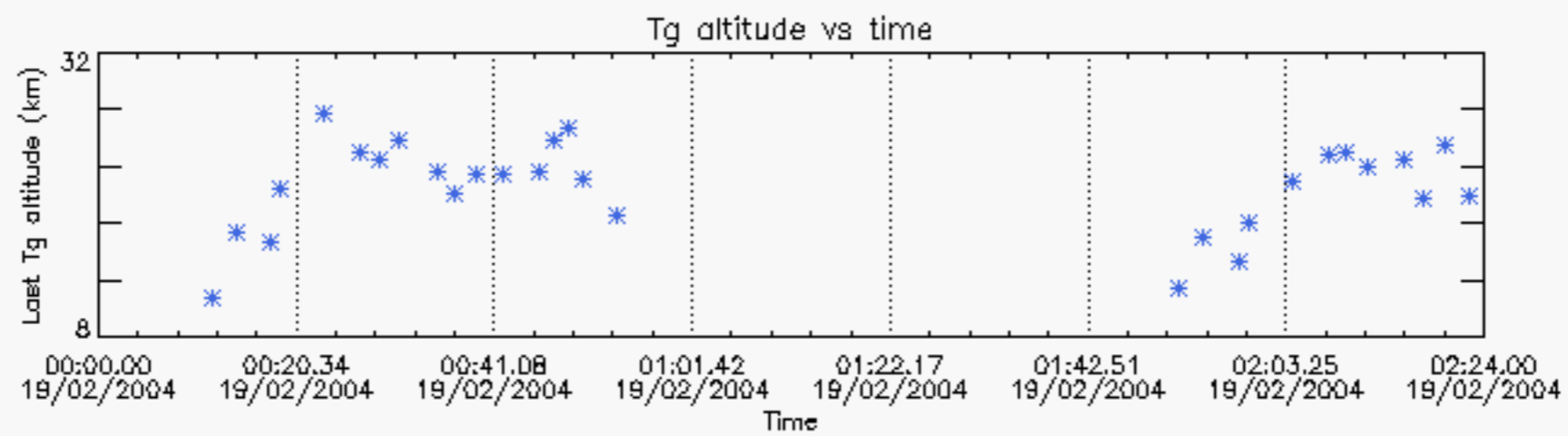




Tangent altitude at which the star is lost



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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6;-3582.3; 02-FEB-2004 14:17:31; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;10070
7;-3465.9; 02-FEB-2004 14:19:27; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;10070
8;-3341.2; 02-FEB-2004 14:21:32; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;10070
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
20; -556.5; 02-FEB-2004 15:07:57; Dark ; 44.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 89; 0;10070
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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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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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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33;	896.2;	21-FEB-2004	12:13:50;	Dark	;	40.5;	71;	Iot	Car	;	2.25;	7700;	occ;	81;	0;	10341
34;	991.9;	21-FEB-2004	12:15:25;	Dark	;	39.5;	46;	Del	Vel	;	1.95;	10600;	occ;	79;	0;	10341
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