

GOMOS Daily Report 28-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 06:56:14
Data source version	<Any version>
Start time of products	28-FEB-2004 (28FEB2004 00:00:00)
Stop time of products	29-FEB-2004 (29FEB2004 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

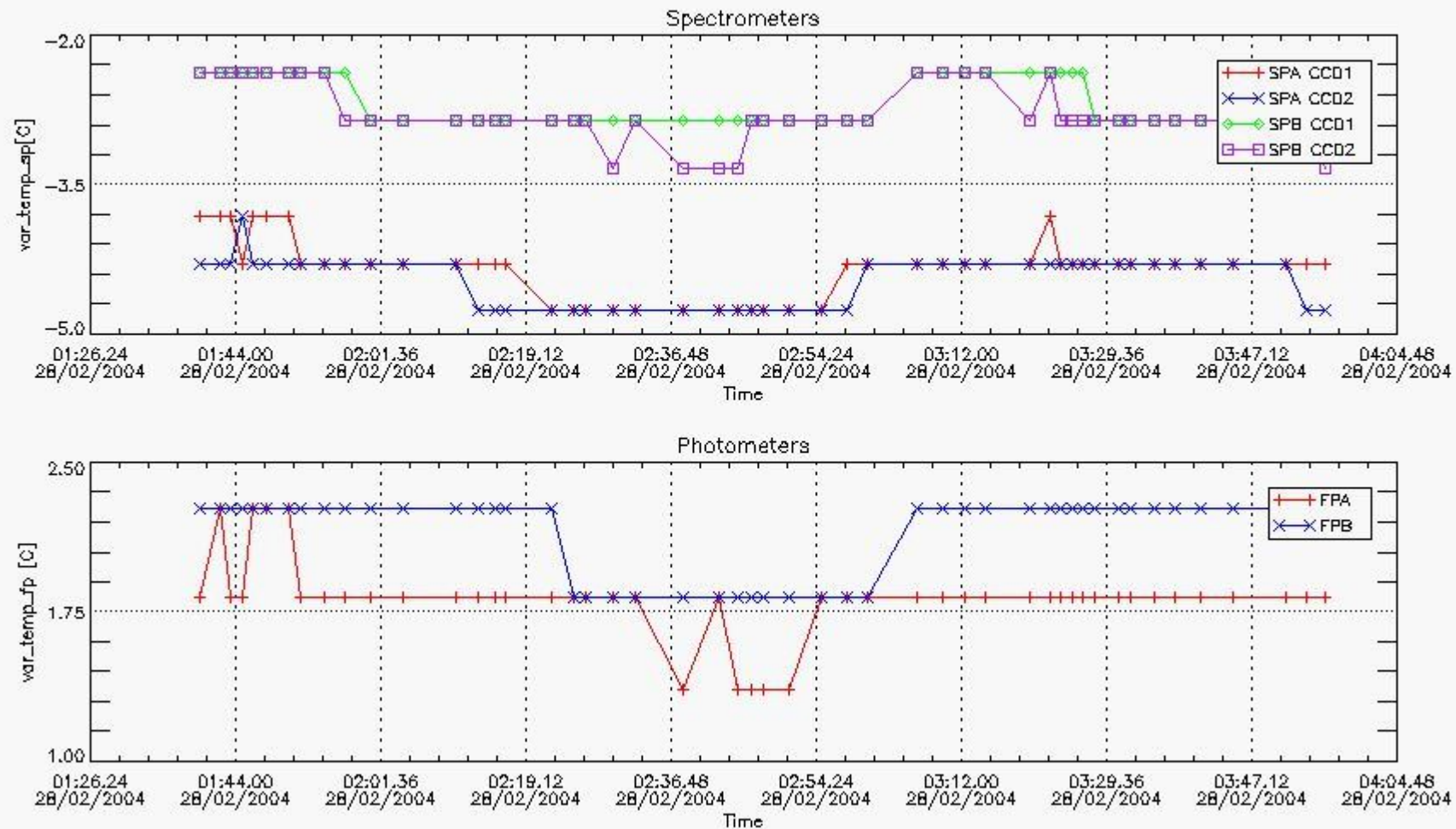
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040228_013939_000000522024_00361_10435_0000.N1	28-FEB-2004 01:39:39	Dark	52.000	131	Gam Lup	2.8000	26000.	104	10435	No
GOM_TRA_1PNPDE20040228_014209_000000472024_00361_10435_0001.N1	28-FEB-2004 01:42:09	Dark	46.500	4	Alp1Cen	-0.010000	5800.0	93	10435	No
GOM_TRA_1PNPDE20040228_014328_000000482024_00361_10435_0002.N1	28-FEB-2004 01:43:28	Dark	47.500	10	Bet Cen	0.61000	28000.	95	10435	No
GOM_TRA_1PNPDE20040228_014451_000000392024_00361_10435_0003.N1	28-FEB-2004 01:44:51	Dark	38.500	112	Alp Mus	2.6880	26000.	77	10435	No
GOM_TRA_1PNPDE20040228_014606_000000542024_00361_10435_0004.N1	28-FEB-2004 01:46:06	Dark	54.000	12	Alp1Cru	0.77500	30000.	108	10435	No
GOM_TRA_1PNPDE20040228_014738_000000392024_00361_10435_0005.N1	28-FEB-2004 01:47:38	Dark	39.000	29	Bet Car	1.6720	10200.	78	10435	No
GOM_TRA_1PNPDE20040228_015025_000000442024_00361_10435_0006.N1	28-FEB-2004 01:50:25	Dark	43.500	71	lot Car	2.2460	7700.0	87	10435	No
GOM_TRA_1PNPDE20040228_015157_000000442024_00361_10435_0007.N1	28-FEB-2004 01:51:57	Dark	44.000	46	Del Vel	1.9540	10600.	88	10435	No
GOM_TRA_1PNPDE20040228_015446_000000492024_00361_10435_0008.N1	28-FEB-2004 01:54:46	Dark	48.500	65	Lam Vel	2.2040	4400.0	97	10435	No
GOM_TRA_1PNPDE20040228_015713_000000662024_00361_10435_0009.N1	28-FEB-2004 01:57:13	Dark	66.000	106	9Bet Crv	2.6480	5600.0	132	10435	No
GOM_TRA_1PNPDE20040228_020024_000000712024_00361_10435_0000.N1	28-FEB-2004 02:00:24	Dark	70.500	100	4Gam Crv	2.5800	13100.	141	10435	No
GOM_TRA_1PNPDE20040228_020418_000000532024_00361_10435_0001.N1	28-FEB-2004 02:04:18	Dark	52.500	48	30Alp Hya	1.9770	4100.0	105	10435	No
GOM_TRA_1PNPDE20040228_021038_000000452024_00361_10435_0002.N1	28-FEB-2004 02:10:38	Bright	45.000	22	32Alp Leo	1.3600	15200.	90	10435	No
GOM_TRA_1PNPDE20040228_021320_000000452024_00361_10435_0003.N1	28-FEB-2004 02:13:20	Bright	44.500	51	41Gam1Leo	2.0100	4500.0	89	10435	No
GOM_TRA_1PNPDE20040228_021527_000000412024_00361_10435_0004.N1	28-FEB-2004 02:15:27	Bright	40.500	17	78Bet Gem	1.1610	4500.0	81	10435	No
GOM_TRA_1PNPDE20040228_021641_000000402024_00361_10435_0005.N1	28-FEB-2004 02:16:41	Bright	39.500	24	66Alp Gem	1.5800	10200.	79	10435	No
GOM_TRA_1PNPDE20040228_022223_000000492024_00361_10435_0006.N1	28-FEB-2004 02:22:23	Bright	48.500	174	52Psi UMa	3.0040	4400.0	97	10435	No
GOM_TRA_1PNPDE20040228_022504_000000432024_00361_10435_0007.N1	28-FEB-2004 02:25:04	Bright	42.500	82	48Bet UMa	2.3650	10600.	85	10435	No
GOM_TRA_1PNPDE20040228_022627_000000482024_00361_10435_0008.N1	28-FEB-2004 02:26:27	Bright	47.500	87	64Gam UMa	2.4330	11000.	95	10435	No
GOM_TRA_1PNPDE20040228_022947_000000492024_00361_10435_0009.N1	28-FEB-2004 02:29:47	Bright	48.500	32	77Eps UMa	1.7630	11000.	97	10435	No
GOM_TRA_1PNPDE20040228_023222_000000392024_00361_10435_0010.N1	28-FEB-2004 02:32:22	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	10435	No
GOM_TRA_1PNPDE20040228_023813_000000472024_00361_10435_0011.N1	28-FEB-2004 02:38:13	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	10435	No
GOM_TRA_1PNPDE20040228_024233_000000442024_00361_10435_0012.N1	28-FEB-2004 02:42:33	Bright	44.000	130	23Bet Dra	2.7990	5800.0	88	10435	No
GOM_TRA_1PNPDE20040228_024454_000000372024_00361_10435_0013.N1	28-FEB-2004 02:44:54	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	10435	No
GOM_TRA_1PNPDE20040228_024629_000000382024_00361_10435_0014.N1	28-FEB-2004 02:46:29	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	10435	No
GOM_TRA_1PNPDE20040228_024801_000000362024_00361_10435_0015.N1	28-FEB-2004 02:48:01	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	10435	No
GOM_TRA_1PNPDE20040228_025101_000000782024_00361_10435_0016.N1	28-FEB-2004 02:51:01	Bright	77.500	133	40Zet Her	2.8070	6000.0	155	10435	No
GOM_TRA_1PNPDE20040228_025500_000000392024_00361_10435_0017.N1	28-FEB-2004 02:55:00	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	10435	No
GOM_TRA_1PNPDE20040228_025808_000000702024_00361_10435_0018.N1	28-FEB-2004 02:58:08	Dark	69.500	59	55Alp Oph	2.0800	8900.0	139	10435	No
GOM_TRA_1PNPDE20040228_030039_000000642024_00361_10435_0019.N1	28-FEB-2004 03:00:39	Dark	63.500	126	60Bet Oph	2.7700	4250.0	127	10435	No
GOM_TRA_1PNPDE20040228_030633_000000432024_00361_10435_0020.N1	28-FEB-2004 03:06:33	Dark	42.500	57	34Sig Sgr	2.0660	26000.	85	10435	No
GOM_TRA_1PNPDE20040228_030937_000000452024_00361_10435_0021.N1	28-FEB-2004 03:09:37	Dark	45.000	38	20Eps Sgr	1.8360	11000.	90	10435	No
GOM_TRA_1PNPDE20040228_031222_000000462024_00361_10435_0022.N1	28-FEB-2004 03:12:22	Dark	46.000	25	35Lam Sco	1.6200	28000.	92	10435	No
GOM_TRA_1PNPDE20040228_031452_000000682024_00361_10435_0023.N1	28-FEB-2004 03:14:52	Dark	67.500	16	21Alp Sco	1.0200	3000.0	135	10435	No
GOM_TRA_1PNPDE20040228_032016_000000532024_00362_10436_0024.N1	28-FEB-2004 03:20:16	Dark	53.000	131	Gam Lup	2.8000	26000.	106	10436	No
GOM_TRA_1PNPDE20040228_032246_000000452024_00362_10436_0025.N1	28-FEB-2004 03:22:46	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	10436	No
GOM_TRA_1PNPDE20040228_032404_000000462024_00362_10436_0026.N1	28-FEB-2004 03:24:04	Dark	45.500	10	Bet Cen	0.61000	28000.	91	10436	No
GOM_TRA_1PNPDE20040228_032528_000000402024_00362_10436_0027.N1	28-FEB-2004 03:25:28	Dark	39.500	112	Alp Mus	2.6880	26000.	79	10436	No
GOM_TRA_1PNPDE20040228_032643_000000512024_00362_10436_0028.N1	28-FEB-2004 03:26:43	Dark	51.000	12	Alp1Cru	0.77500	30000.	102	10436	No
GOM_TRA_1PNPDE20040228_032813_000000382024_00362_10436_0029.N1	28-FEB-2004 03:28:13	Dark	38.000	29	Bet Car	1.6720	10200.	76	10436	No
GOM_TRA_1PNPDE20040228_033101_000000392024_00362_10436_0030.N1	28-FEB-2004 03:31:01	Dark	38.500	71	lot Car	2.2460	7700.0	77	10436	No
GOM_TRA_1PNPDE20040228_033233_000000412024_00362_10436_0031.N1	28-FEB-2004 03:32:33	Dark	41.000	46	Del Vel	1.9540	10600.	82	10436	No
GOM_TRA_1PNPDE20040228_033524_000000442024_00362_10436_0032.N1	28-FEB-2004 03:35:24	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	10436	No
GOM_TRA_1PNPDE20040228_033750_000000722024_00362_10436_0033.N1	28-FEB-2004 03:37:50	Dark	72.000	106	9Bet Crv	2.6480	5600.0	144	10436	No
GOM_TRA_1PNPDE20040228_034059_000000722024_00362_10436_0000.N1	28-FEB-2004 03:40:59	Dark	71.500	100	4Gam Crv	2.5800	13100.	143	10436	No
GOM_TRA_1PNPDE20040228_034456_000000502024_00362_10436_0001.N1	28-FEB-2004 03:44:56	Dark	49.500	48	30Alp Hya	1.9770	4100.0	99	10436	No
GOM_TRA_1PNPDE20040228_035114_000000462024_00362_10436_0002.N1	28-FEB-2004 03:51:14	Bright	45.500	22	32Alp Leo	1.3600	15200.	91	10436	No
GOM_TRA_1PNPDE20040228_035355_000000452024_00362_10436_0003.N1	28-FEB-2004 03:53:55	Bright	45.000	51	41Gam1Leo	2.0100	4500.0	90	10436	No
GOM_TRA_1PNPDE20040228_035604_000000402024_00362_10436_0004.N1	28-FEB-2004 03:56:04	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	10436	No

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



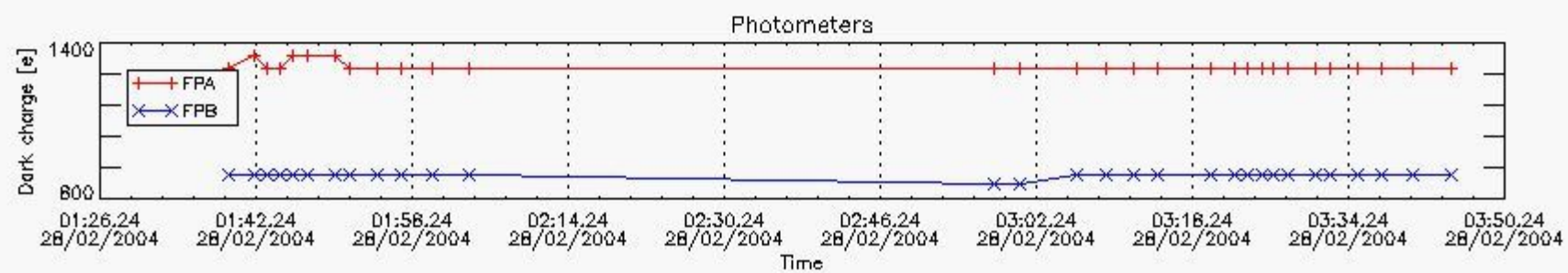
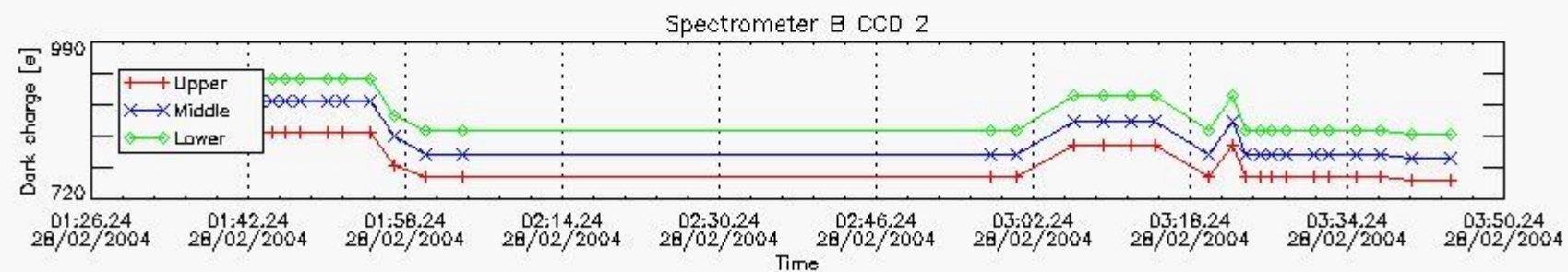
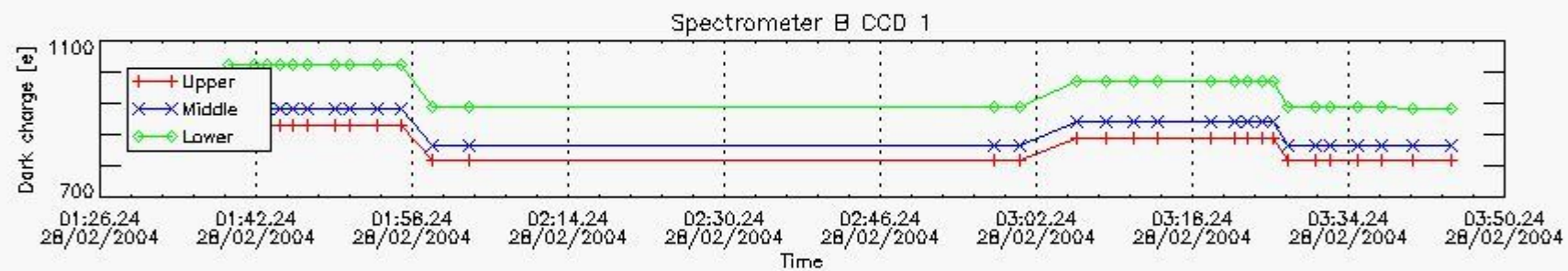
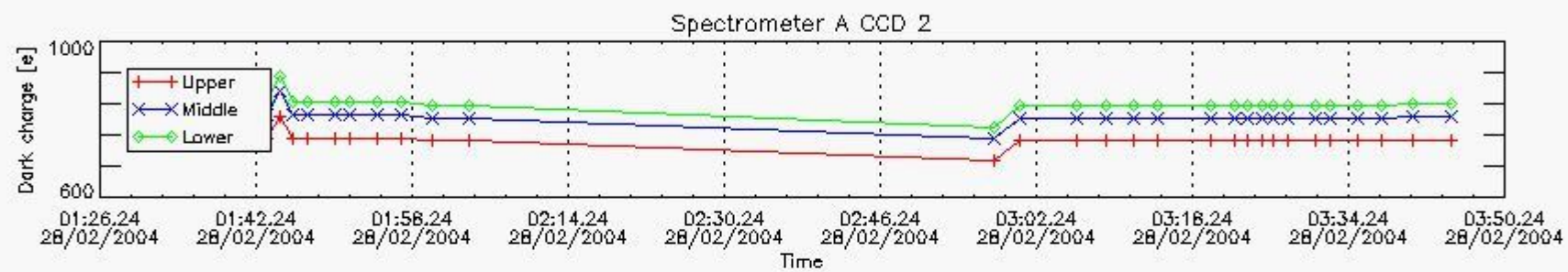
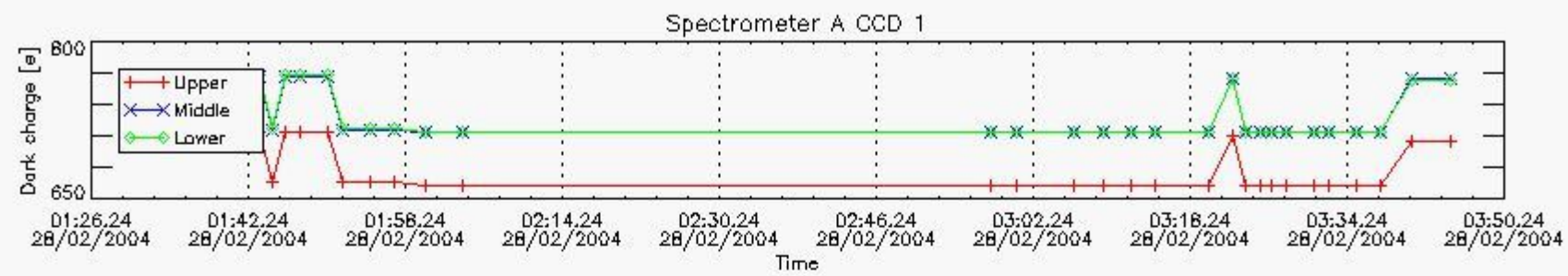
4. Overview of dark signal processing per product

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

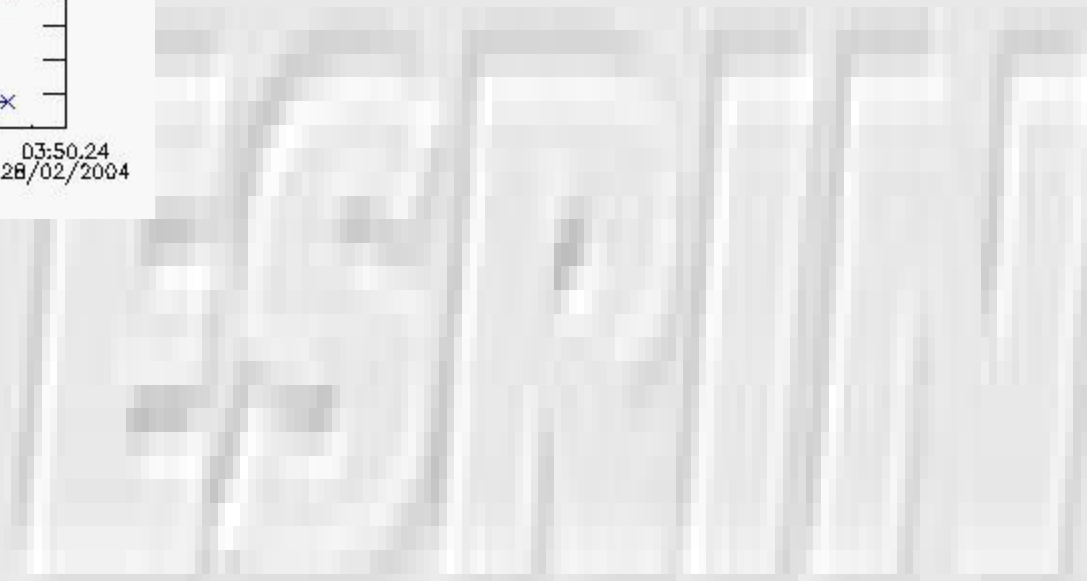
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



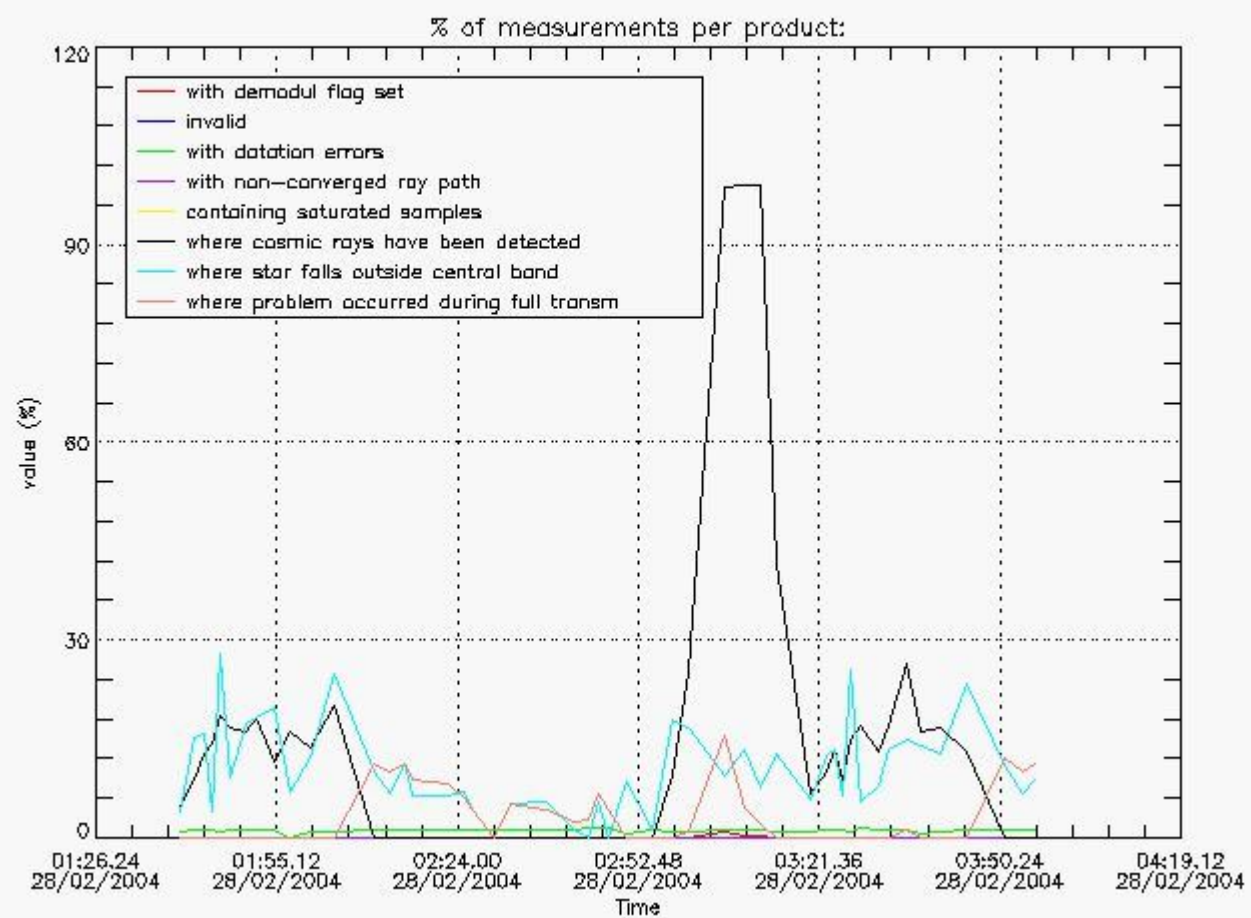
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	6.12245 %
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



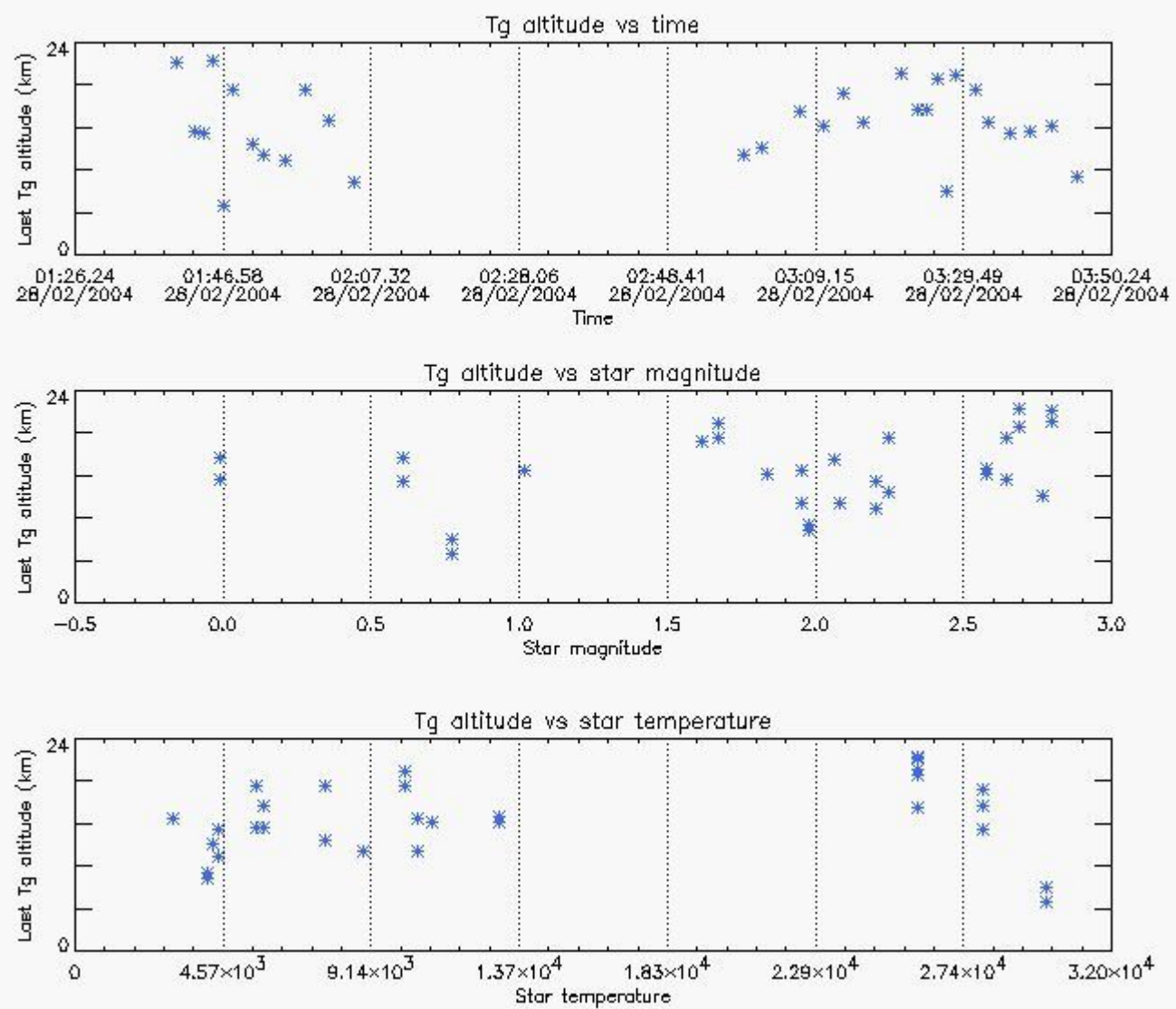
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	14.830	20.253
St. deviation:	4.3071	3.3139
Maximum:	21.981	26.769
Minimum:	5.4752	15.642
Number of data:	30.000	19.000

6.2 Plot for DARK limb products

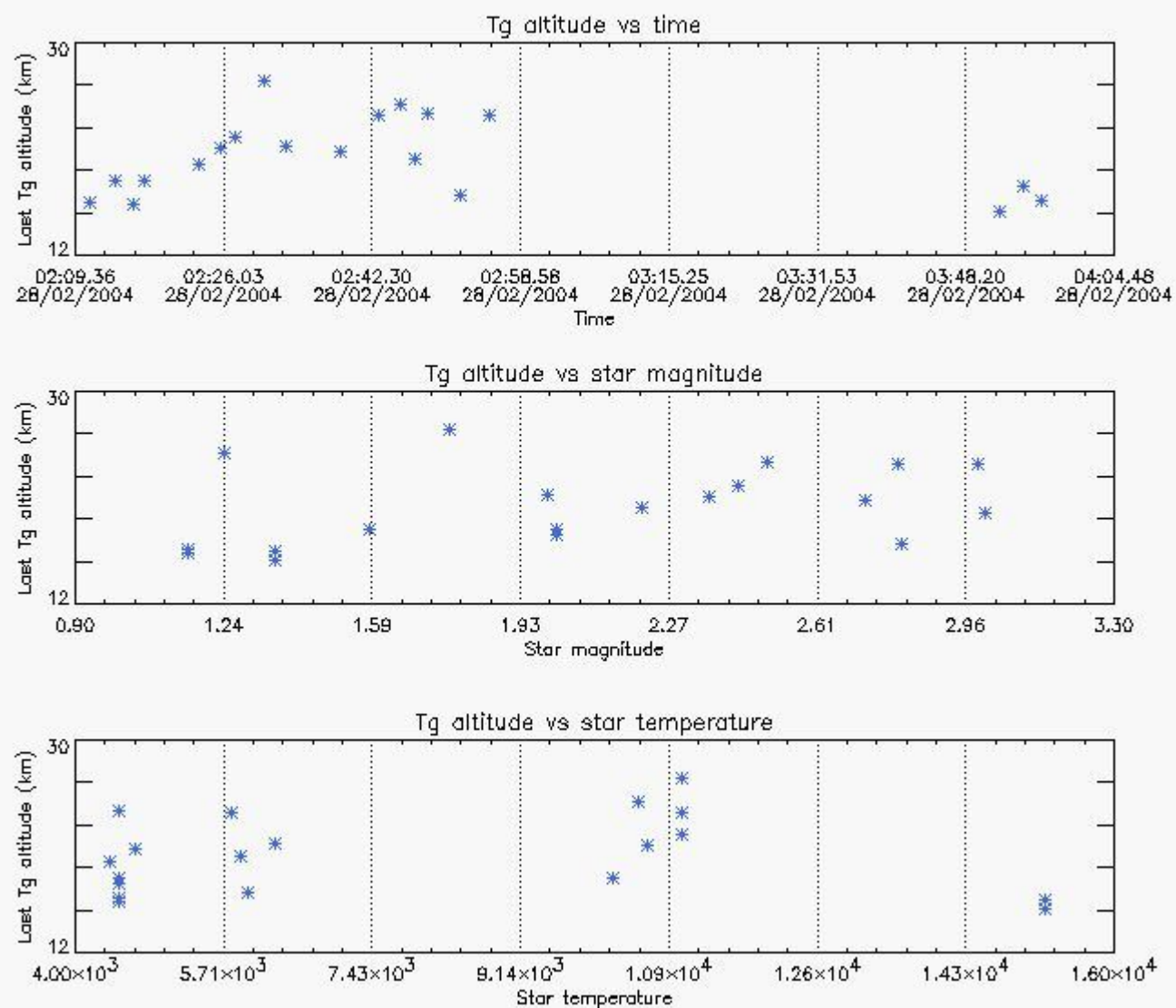
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



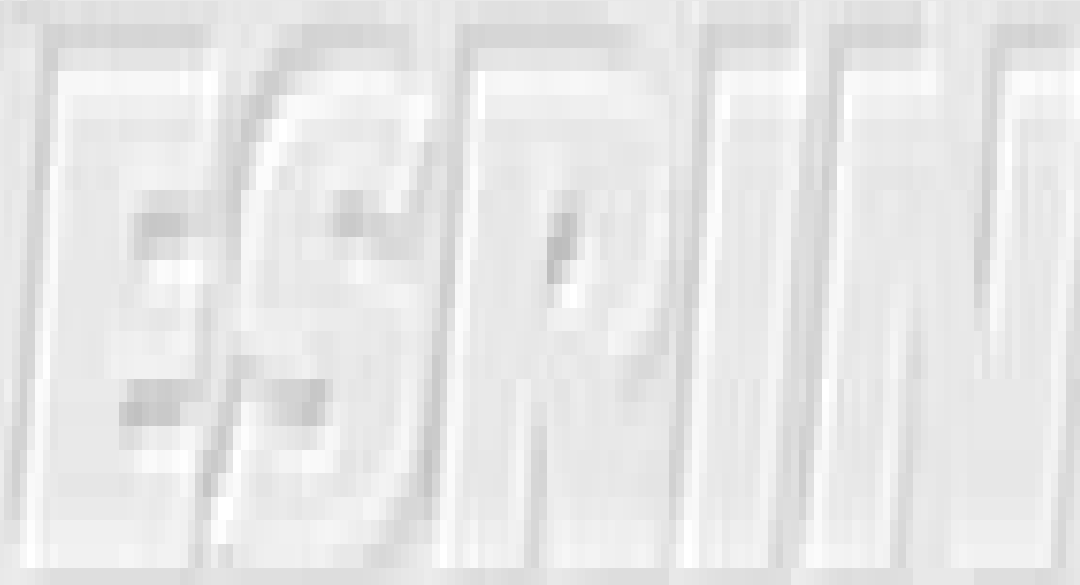
Tangent altitude at which the star is lost



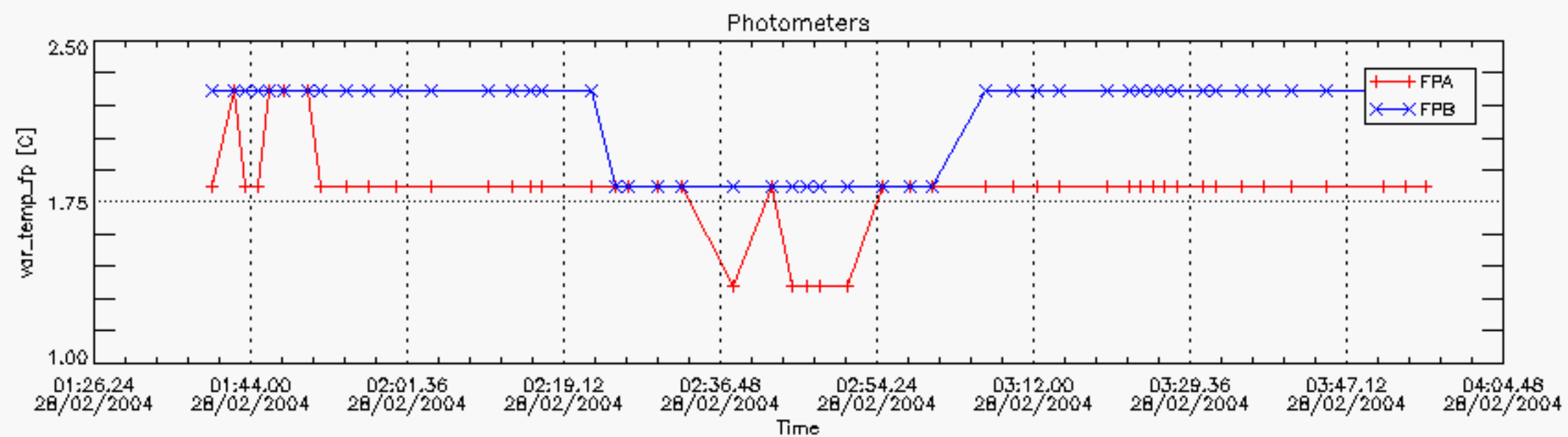
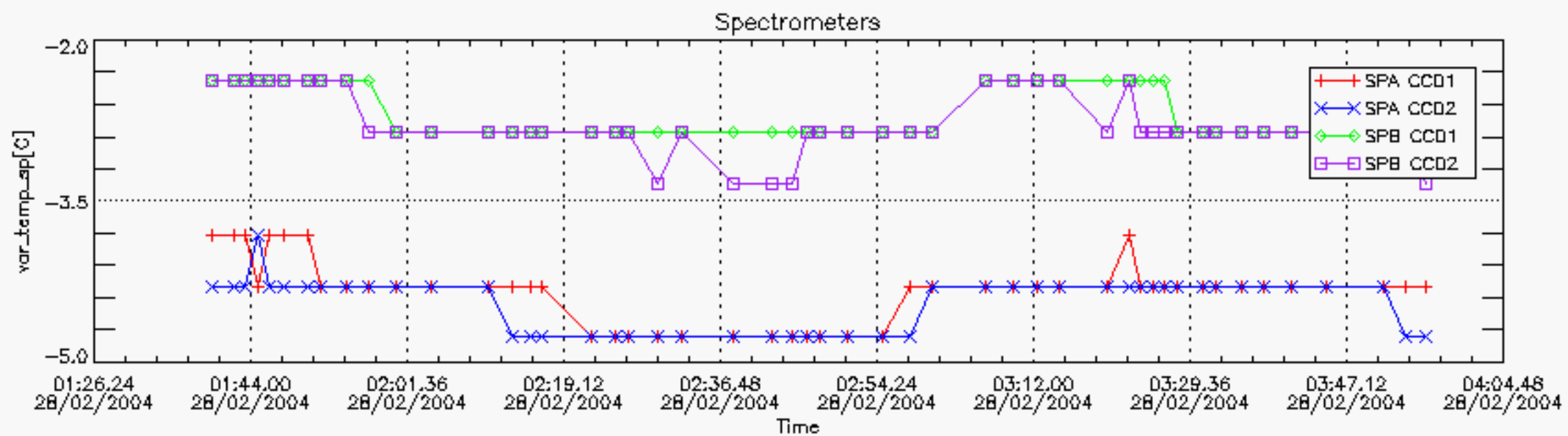
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

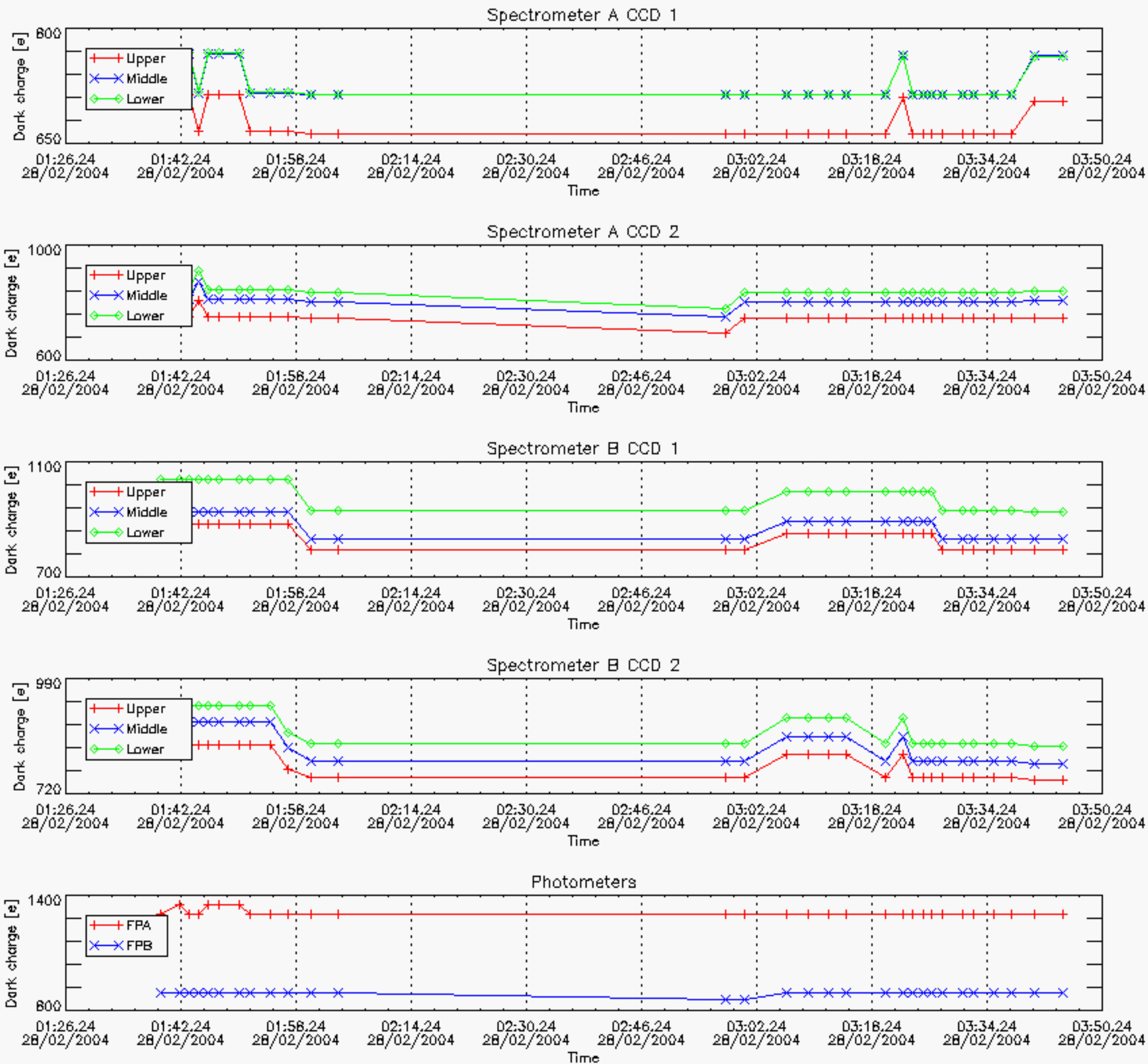
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

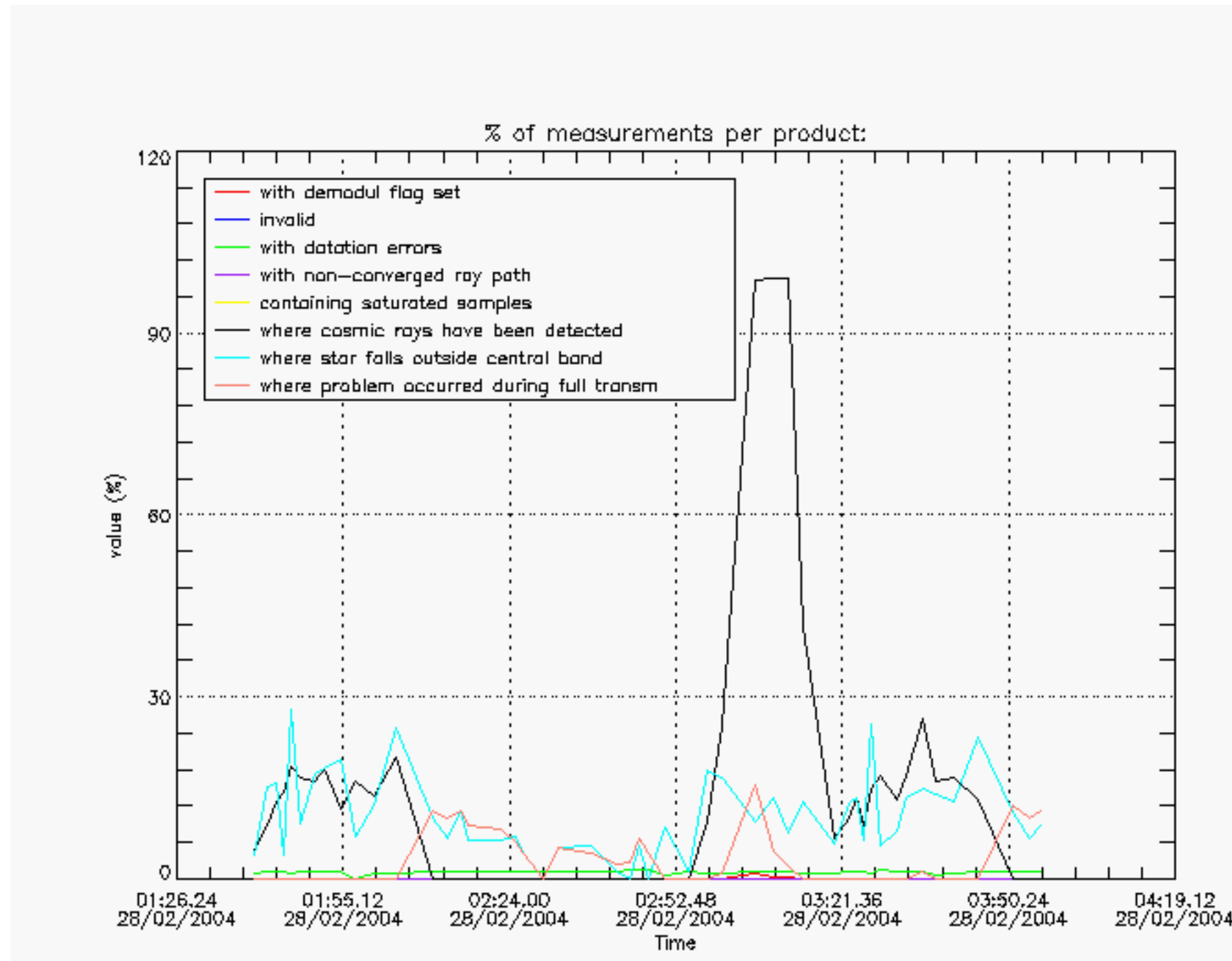
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.7	1447.4	1461.4	1447.6
St. deviation:	5.1745	5.9547	6.0393	7.0907
Maximum:	1635.0	1497.0	1504.0	1491.0
Minimum:	1455.0	1429.0	1452.0	1430.0
Number of data:	37600.	37600.	22200.	22200.



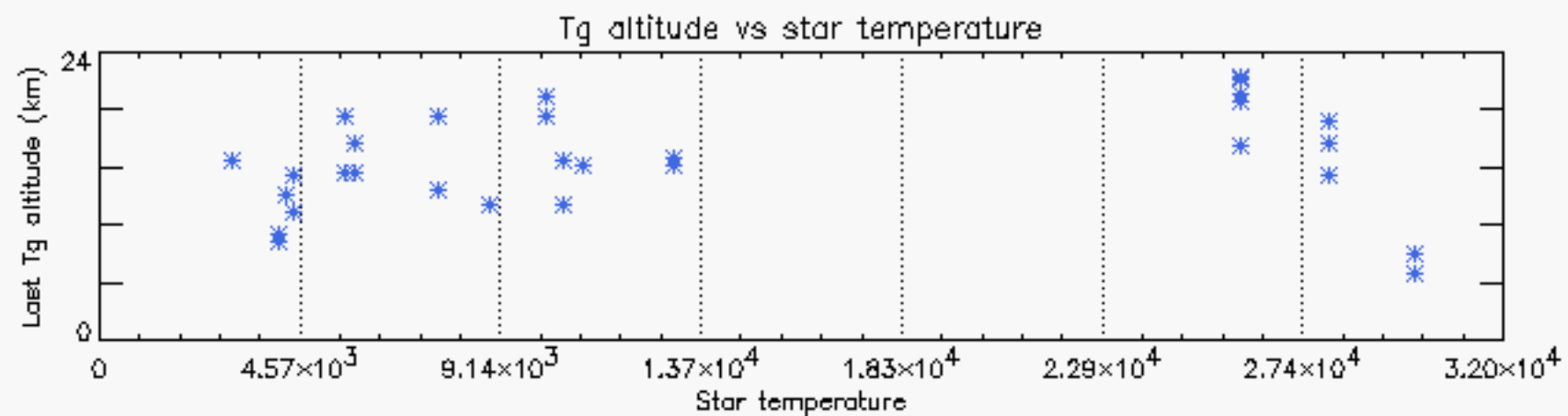
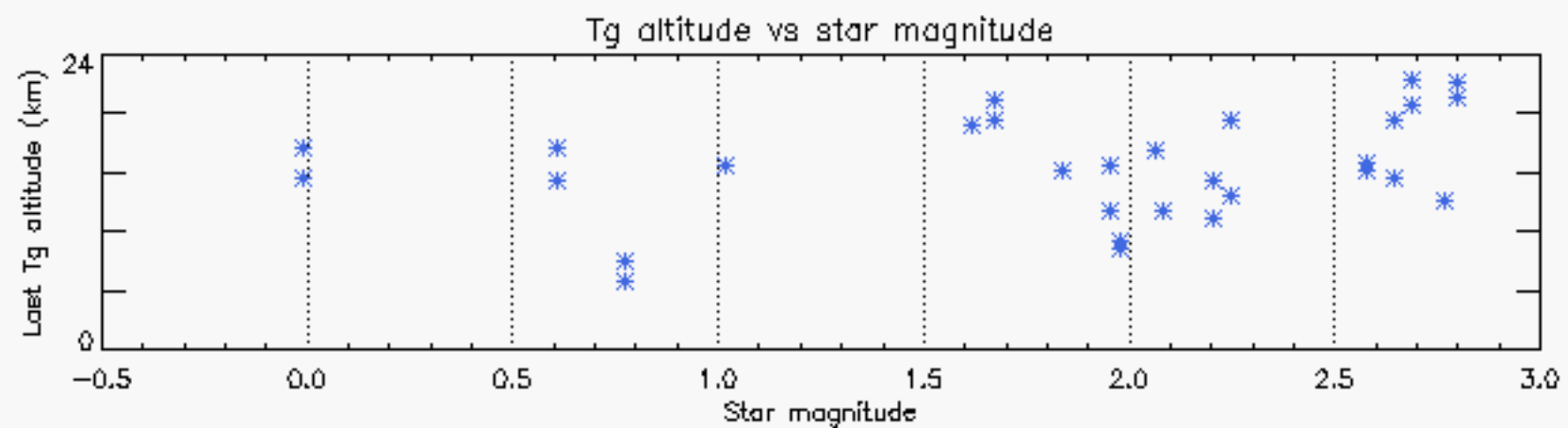
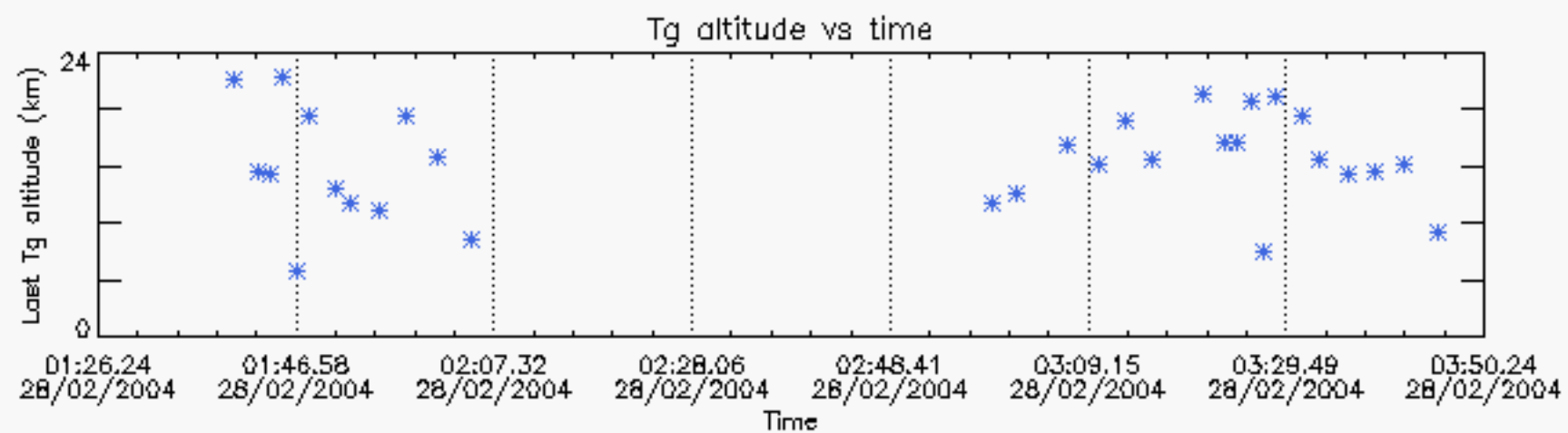




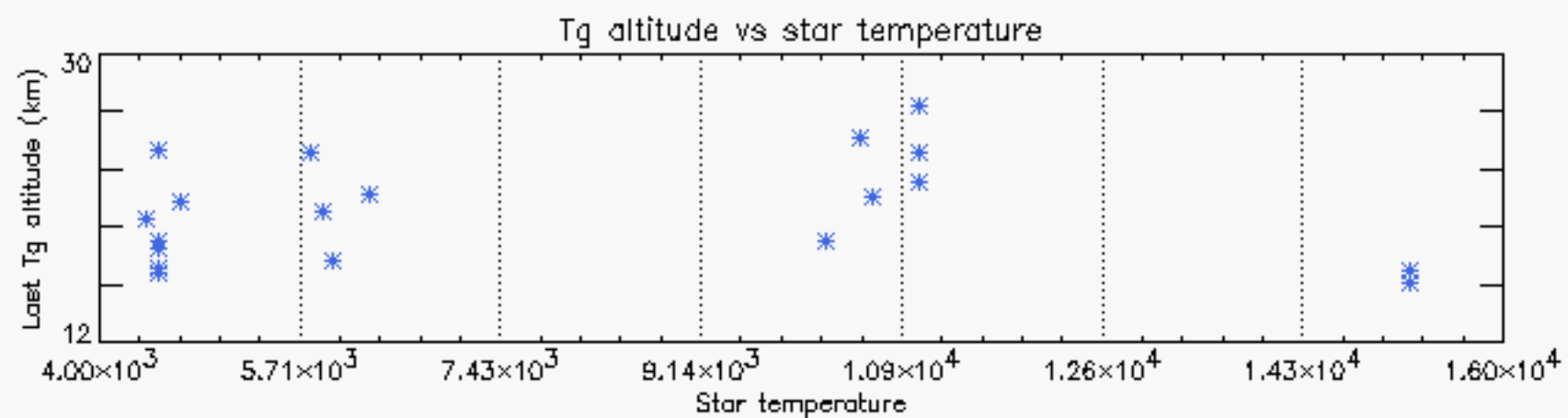
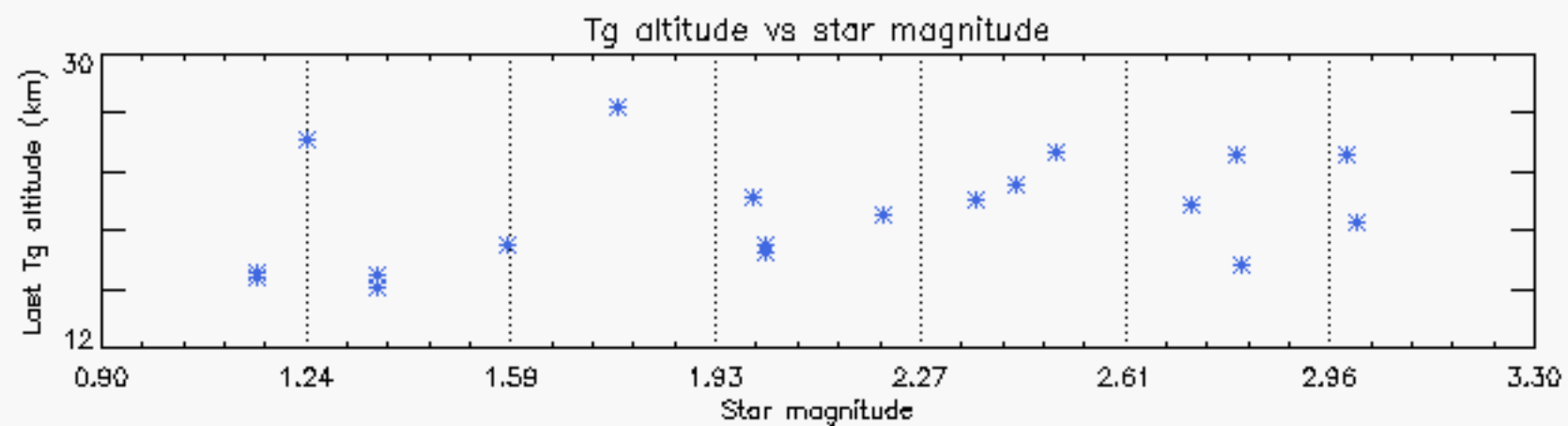
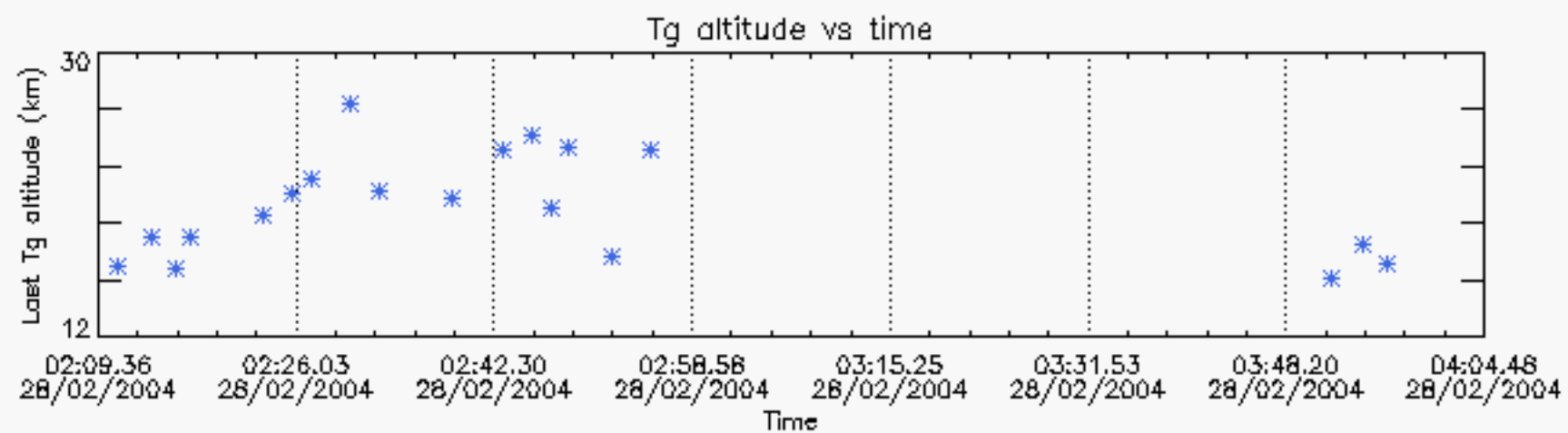




Tangent altitude at which the star is lost



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
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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
30; 878.2; 02-FEB-2004 15:31:51; Dark ; 49.0; 41; Eps Car ; 1.86; 4100;occ; 98; 0;10071
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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17;-2144.3; 02-FEB-2004 19:43:17; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;10073
18;-1950.5; 02-FEB-2004 19:46:31; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;10073
19;-1729.7; 02-FEB-2004 19:50:12; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;10073
20;-1548.0; 02-FEB-2004 19:53:13; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;10073
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23; -713.2; 02-FEB-2004 20:07:08; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;10073
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26; -325.7; 02-FEB-2004 20:13:36; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;10073
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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2;	-4385.9;	03-FEB-2004	11:51:54;	Dark	;	50.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	101;	0;	10083
3;	-4044.2;	03-FEB-2004	11:57:36;	Dark	;	51.0;	8;	10Alp CMi	;	0.40;	6500;occ;	102;	0;	10083
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5;	-3722.2;	03-FEB-2004	12:02:58;	Bright;		41.0;	151;	13Mu Gem	;	2.89;	3000;occ;	82;	0;	10083
6;	-3583.6;	03-FEB-2004	12:05:17;	Bright;		39.5;	24;	66Alp Gem	;	1.58;	10200;occ;	79;	0;	10083
7;	-3462.6;	03-FEB-2004	12:07:18;	Bright;		37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	10083
8;	-3338.8;	03-FEB-2004	12:09:22;	Bright;		37.5;	42;	34Bet Aur	;	1.90;	10200;occ;	75;	0;	10083
9;	-2805.7;	03-FEB-2004	12:18:15;	Bright;		48.5;	82;	48Bet UMa	;	2.37;	10600;occ;	97;	0;	10083
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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
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19;	-708.9;	03-FEB-2004	12:53:11;	Dark	;	45.0;	86;	35Eta Oph	;	2.43;	10200;occ;	90;	0;	10083
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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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9;	-3679.6;	08-FEB-2004	17:48:36;	Bright;	38.5;	170;	27Eps Gem	; 3.00;	9700;occ;	77;	0;10158
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11;	-3439.4;	08-FEB-2004	17:52:36;	Bright;	37.5;	107;	37The Aur	; 2.65;	11000;occ;	75;	0;10158
12;	-3318.4;	08-FEB-2004	17:54:37;	Bright;	37.5;	42;	34Bet Aur	; 1.90;	10200;occ;	75;	0;10158
13;	-3187.6;	08-FEB-2004	17:56:48;	Bright;	109.0;	96;	68Del Leo	; 2.56;	9300;occ;	218;	0;10158
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20;	-1860.9;	08-FEB-2004	18:18:54;	Bright;	35.5;	144;	18Del Cyg	; 2.86;	11000;occ;	71;	0;10158
21;	-1720.0;	08-FEB-2004	18:21:15;	Bright;	40.5;	5;	3Alp Lyr	; 0.03;	11000;occ;	81;	0;10158
22;	-1536.0;	08-FEB-2004	18:24:19;	Bright;	49.0;	133;	40Zet Her	; 2.81;	6000;occ;	98;	0;10158
23;	-1337.4;	08-FEB-2004	18:27:38;	Bright;	79.5;	67;	5Alp CrB	; 2.22;	11000;occ;	159;	0;10158
24;	-1192.5;	08-FEB-2004	18:30:03;	Dark	; 182.5;	83;		; 2.38;	11000;occ;	365;	0;10158
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26;	-557.5;	08-FEB-2004	18:40:38;	Dark	; 45.5;	116;	19Del Sgr	; 2.70;	4100;occ;	91;	0;10158
27;	-487.0;	08-FEB-2004	18:41:48;	Dark	; 43.0;	38;	20Eps Sgr	; 1.84;	11000;occ;	86;	0;10158
28;	-378.9;	08-FEB-2004	18:43:36;	Dark	; 42.5;	25;	35Lam Sco	; 1.62;	28000;occ;	85;	0;10158
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33;	286.7;	08-FEB-2004	18:54:42;	Dark	; 58.5;	0;		; 0.00;	0;occ;	117;	0;10159
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9;	-3679.4;	08-FEB-2004	19:29:12;	Bright;	39.0;	170;	27Eps Gem	; 3.00;	9700;occ;	78;	0;10159
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15;	-2819.5;	08-FEB-2004	19:43:32;	Bright;	48.0;	36;	50Alp UMa	; 1.80;	6300;occ;	96;	0;10159
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17;	-2451.4;	08-FEB-2004	19:49:40;	Bright;	43.0;	60;	7Bet UMi	; 2.08;	3950;occ;	86;	0;10159
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21;	-1720.4;	08-FEB-2004	20:01:51;	Bright;	40.5;	5;	3Alp Lyr	; 0.03;	11000;occ;	81;	0;10159
22;	-1535.5;	08-FEB-2004	20:04:56;	Bright;	50.0;	133;	40Zet Her	; 2.81;	6000;occ;	100;	0;10159
23;	-1336.6;	08-FEB-2004	20:08:15;	Bright;	76.5;	67;	5Alp CrB	; 2.22;	11000;occ;	153;	0;10159
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27;	-486.9;	08-FEB-2004	20:22:24;	Dark	; 41.0;	38;	20Eps Sgr	; 1.84;	11000;occ;	82;	0;10159
28;	-378.8;	08-FEB-2004	20:24:12;	Dark	; 43.0;	25;	35Lam Sco	; 1.62;	28000;occ;	86;	0;10159
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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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27; 582.9; 28-FEB-2004 11:48:30; Dark ; 38.5; 112; Alp Mus ; 2.69; 26000;occ; 77; 0;10441
28; 658.4; 28-FEB-2004 11:49:45; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;10441
29; 746.5; 28-FEB-2004 11:51:13; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;10441
30; 914.6; 28-FEB-2004 11:54:01; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;10441
31; 1006.1; 28-FEB-2004 11:55:33; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;10441
32; 1178.6; 28-FEB-2004 11:58:25; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;10441
33; 1324.8; 28-FEB-2004 12:00:52; Dark ; 72.0; 106; 9Bet Crv ; 2.65; 5600;occ; 144; 0;10441
34; 1510.7; 28-FEB-2004 12:03:58; Dark ; 64.0; 100; 4Gam Crv ; 2.58; 13100;occ; 128; 0;10441
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2;-4284.6; 29-FEB-2004 06:34:34; Dark ; 43.5; 48; 30Alp Hya ; 1.98; 4100;occ; 87; 0;10452
3;-3911.6; 29-FEB-2004 06:40:47; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;10452
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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
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9;-2775.6; 29-FEB-2004 06:59:43; Bright; 50.5; 32; 77Eps UMa ; 1.76; 11000;occ; 101; 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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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
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