

GOMOS Daily Report 26-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	27FEB2004 06:55:57
Data source version	<Any version>
Start time of products	26-FEB-2004 (26FEB2004 00:00:00)
Stop time of products	27-FEB-2004 (27FEB2004 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

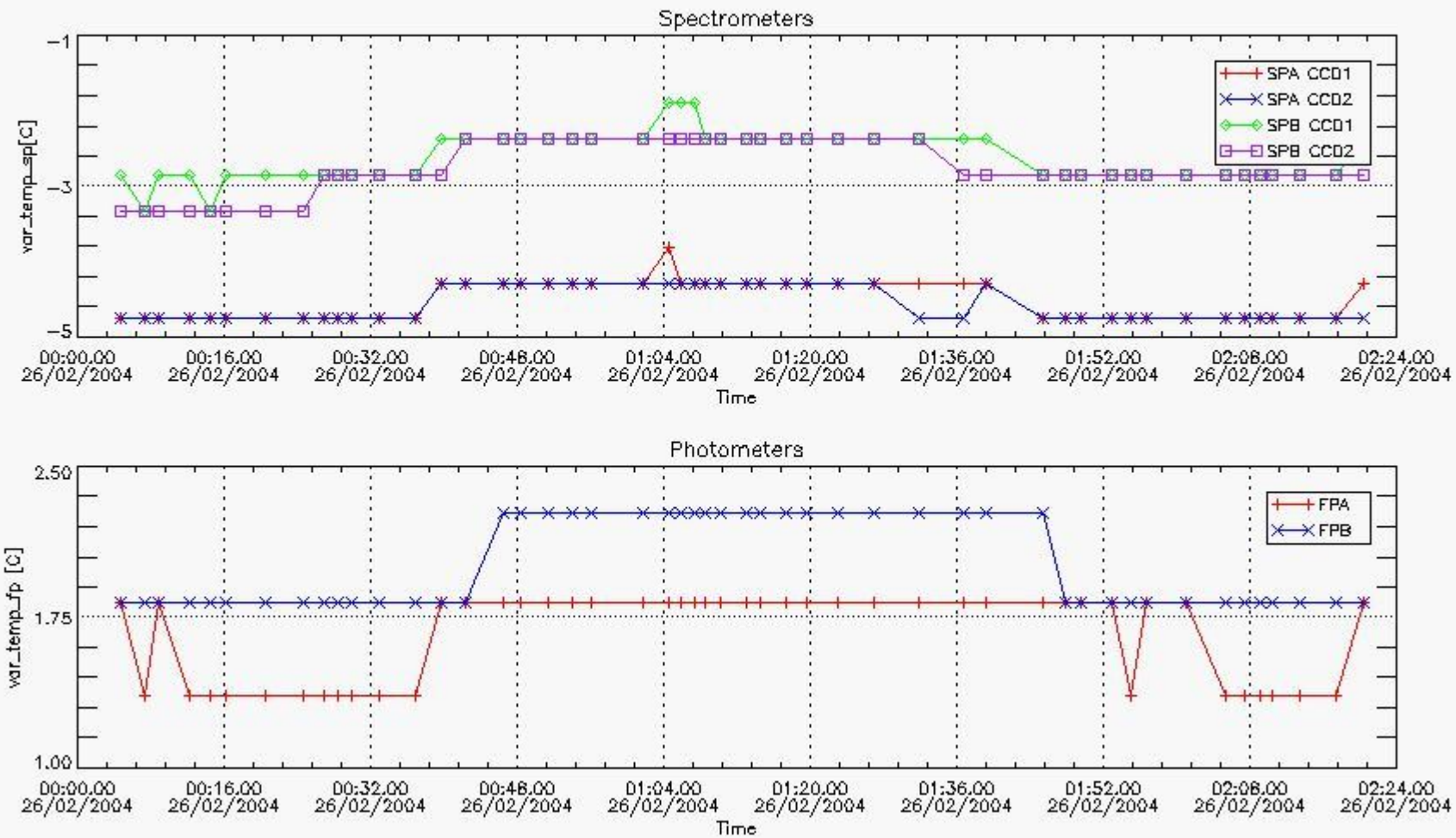
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040226_000447_000000482024_00331_10405_0006.N1	26-FEB-2004 00:04:47	Bright	48.000	174	52Psi UMa	3.0040	4400.0	96	10405	No
GOM_TRA_1PNPDE20040226_000721_000000412024_00331_10405_0007.N1	26-FEB-2004 00:07:21	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	10405	No
GOM_TRA_1PNPDE20040226_000852_000000502024_00331_10405_0008.N1	26-FEB-2004 00:08:52	Bright	49.500	87	64Gam UMa	2.4330	11000.	99	10405	No
GOM_TRA_1PNPDE20040226_001216_000000532024_00331_10405_0009.N1	26-FEB-2004 00:12:16	Bright	52.500	32	77Eps UMa	1.7630	11000.	105	10405	No
GOM_TRA_1PNPDE20040226_001424_000000372024_00331_10405_0010.N1	26-FEB-2004 00:14:24	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	10405	No
GOM_TRA_1PNPDE20040226_001609_000000622024_00331_10405_0011.N1	26-FEB-2004 00:16:09	Bright	62.000	39	85Eta UMa	1.8540	24000.	124	10405	No
GOM_TRA_1PNPDE20040226_002028_000000452024_00331_10405_0012.N1	26-FEB-2004 00:20:28	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	10405	No
GOM_TRA_1PNPDE20040226_002441_000000462024_00331_10405_0013.N1	26-FEB-2004 00:24:41	Bright	45.500	130	23Bet Dra	2.7990	5800.0	91	10405	No
GOM_TRA_1PNPDE20040226_002652_000000362024_00331_10405_0014.N1	26-FEB-2004 00:26:52	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	10405	No
GOM_TRA_1PNPDE20040226_002827_000000362024_00331_10405_0015.N1	26-FEB-2004 00:28:27	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	10405	No
GOM_TRA_1PNPDE20040226_002957_000000382024_00331_10405_0016.N1	26-FEB-2004 00:29:57	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	10405	No
GOM_TRA_1PNPDE20040226_003256_000000722024_00331_10405_0017.N1	26-FEB-2004 00:32:56	Bright	71.500	133	40Zet Her	2.8070	6000.0	143	10405	No
GOM_TRA_1PNPDE20040226_003653_000000392024_00331_10405_0018.N1	26-FEB-2004 00:36:53	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	10405	No
GOM_TRA_1PNPDE20040226_003948_000000652024_00331_10405_0019.N1	26-FEB-2004 00:39:48	Dark	65.000	59	55Alp Oph	2.0800	8900.0	130	10405	No
GOM_TRA_1PNPDE20040226_004215_000000582024_00331_10405_0020.N1	26-FEB-2004 00:42:15	Dark	57.500	126	60Bet Oph	2.7700	4250.0	115	10405	No
GOM_TRA_1PNPDE20040226_004634_000000452024_00331_10405_0021.N1	26-FEB-2004 00:46:34	Dark	45.000	155	41Pi Sgr	2.9000	6600.0	90	10405	No
GOM_TRA_1PNPDE20040226_004821_000000442024_00331_10405_0022.N1	26-FEB-2004 00:48:21	Dark	44.000	57	34Sig Sgr	2.0660	26000.	88	10405	No
GOM_TRA_1PNPDE20040226_005121_000000462024_00331_10405_0023.N1	26-FEB-2004 00:51:21	Dark	46.000	38	20Eps Sgr	1.8360	11000.	92	10405	No
GOM_TRA_1PNPDE20040226_005400_000000502024_00331_10405_0024.N1	26-FEB-2004 00:54:00	Dark	49.500	25	35Lam Sco	1.6200	28000.	99	10405	No
GOM_TRA_1PNPDE20040226_005609_000000832024_00331_10405_0025.N1	26-FEB-2004 00:56:09	Dark	83.000	16	21Alp Sco	1.0200	3000.0	166	10405	No
GOM_TRA_1PNPDE20040226_010143_000000532024_00332_10406_0026.N1	26-FEB-2004 01:01:43	Dark	53.000	131	Gam Lup	2.8000	26000.	106	10406	No
GOM_TRA_1PNPDE20040226_010428_000000472024_00332_10406_0027.N1	26-FEB-2004 01:04:28	Dark	46.500	4	Alp1Cen	-0.010000	5800.0	93	10406	No
GOM_TRA_1PNPDE20040226_010548_000000492024_00332_10406_0028.N1	26-FEB-2004 01:05:48	Dark	48.500	10	Bet Cen	0.61000	28000.	97	10406	No
GOM_TRA_1PNPDE20040226_010718_000000402024_00332_10406_0029.N1	26-FEB-2004 01:07:18	Dark	40.000	112	Alp Mus	2.6880	26000.	80	10406	No
GOM_TRA_1PNPDE20040226_010829_000000552024_00332_10406_0030.N1	26-FEB-2004 01:08:29	Dark	55.000	12	Alp1Cru	0.77500	30000.	110	10406	No
GOM_TRA_1PNPDE20040226_011012_000000392024_00332_10406_0031.N1	26-FEB-2004 01:10:12	Dark	39.000	29	Bet Car	1.6720	10200.	78	10406	No
GOM_TRA_1PNPDE20040226_011258_000000392024_00332_10406_0032.N1	26-FEB-2004 01:12:58	Dark	39.000	71	lot Car	2.2460	7700.0	78	10406	No
GOM_TRA_1PNPDE20040226_011430_000000412024_00332_10406_0033.N1	26-FEB-2004 01:14:30	Dark	41.000	46	Del Vel	1.9540	10600.	82	10406	No
GOM_TRA_1PNPDE20040226_011718_000000482024_00332_10406_0034.N1	26-FEB-2004 01:17:18	Dark	48.000	65	Lam Vel	2.2040	4400.0	96	10406	No
GOM_TRA_1PNPDE20040226_011937_000000752024_00332_10406_0035.N1	26-FEB-2004 01:19:37	Dark	74.500	106	9Bet Crv	2.6480	5600.0	149	10406	No
GOM_TRA_1PNPDE20040226_012257_000000752024_00332_10406_0001.N1	26-FEB-2004 01:22:57	Dark	75.000	100	4Gam Crv	2.5800	13100.	150	10406	No
GOM_TRA_1PNPDE20040226_012656_000000502024_00332_10406_0002.N1	26-FEB-2004 01:26:56	Dark	49.500	48	30Alp Hya	1.9770	4100.0	99	10406	No
GOM_TRA_1PNPDE20040226_013148_000000472024_00332_10406_0003.N1	26-FEB-2004 01:31:48	Bright	46.500	8	10Alp CMI	0.40000	6500.0	93	10406	No
GOM_TRA_1PNPDE20040226_013641_000000412024_00332_10406_0004.N1	26-FEB-2004 01:36:41	Bright	41.000	166	17Eps Leo	2.9800	6000.0	82	10406	No
GOM_TRA_1PNPDE20040226_013910_000000392024_00332_10406_0005.N1	26-FEB-2004 01:39:10	Bright	39.000	24	66Alp Gem	1.5800	10200.	78	10406	No
GOM_TRA_1PNPDE20040226_014521_000000472024_00332_10406_0006.N1	26-FEB-2004 01:45:21	Bright	46.500	174	52Psi UMa	3.0040	4400.0	93	10406	No
GOM_TRA_1PNPDE20040226_014756_000000442024_00332_10406_0007.N1	26-FEB-2004 01:47:56	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	10406	No
GOM_TRA_1PNPDE20040226_014928_000000452024_00332_10406_0008.N1	26-FEB-2004 01:49:28	Bright	45.000	87	64Gam UMa	2.4330	11000.	90	10406	No
GOM_TRA_1PNPDE20040226_015251_000000502024_00332_10406_0009.N1	26-FEB-2004 01:52:51	Bright	50.000	32	77Eps UMa	1.7630	11000.	100	10406	No
GOM_TRA_1PNPDE20040226_015459_000000362024_00332_10406_0010.N1	26-FEB-2004 01:54:59	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	10406	No
GOM_TRA_1PNPDE20040226_015643_000000662024_00332_10406_0011.N1	26-FEB-2004 01:56:43	Bright	65.500	39	85Eta UMa	1.8540	24000.	131	10406	No
GOM_TRA_1PNPDE20040226_020103_000000482024_00332_10406_0012.N1	26-FEB-2004 02:01:03	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	10406	No
GOM_TRA_1PNPDE20040226_020517_000000462024_00332_10406_0013.N1	26-FEB-2004 02:05:17	Bright	46.000	130	23Bet Dra	2.7990	5800.0	92	10406	No
GOM_TRA_1PNPDE20040226_020726_000000402024_00332_10406_0014.N1	26-FEB-2004 02:07:26	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	10406	No
GOM_TRA_1PNPDE20040226_020903_000000372024_00332_10406_0015.N1	26-FEB-2004 02:09:03	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	10406	No
GOM_TRA_1PNPDE20040226_021031_000000392024_00332_10406_0016.N1	26-FEB-2004 02:10:31	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	10406	No
GOM_TRA_1PNPDE20040226_021331_000000712024_00332_10406_0017.N1	26-FEB-2004 02:13:31	Bright	71.000	133	40Zet Her	2.8070	6000.0	142	10406	No
GOM_TRA_1PNPDE20040226_021728_000000392024_00332_10406_0018.N1	26-FEB-2004 02:17:28	Bright	38.500	168	17Zet Aql	2.9860	11000.	77	10406	No
GOM_TRA_1PNPDE20040226_022025_000000652024_00332_10406_0019.N1	26-FEB-2004 02:20:25	Dark	65.000	59	55Alp Oph	2.0800	8900.0	130	10406	No

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



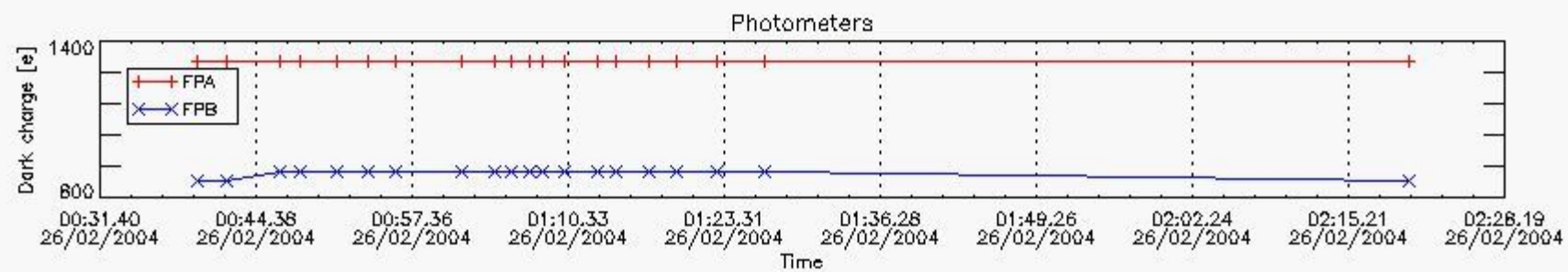
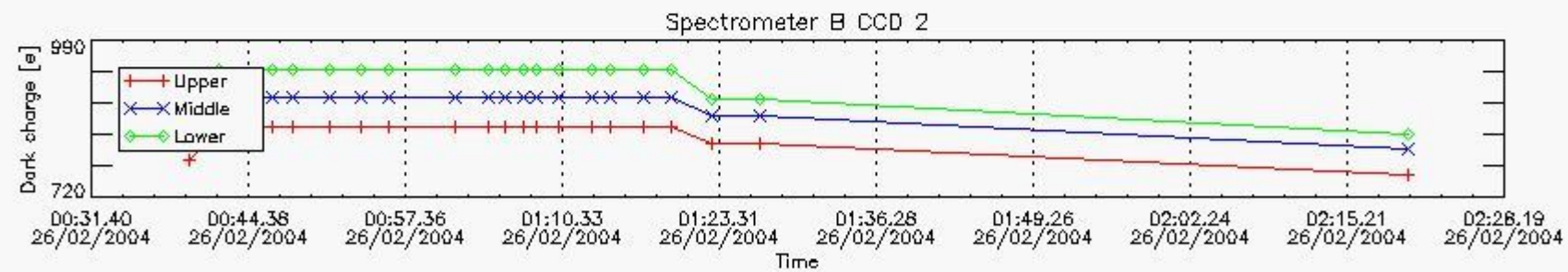
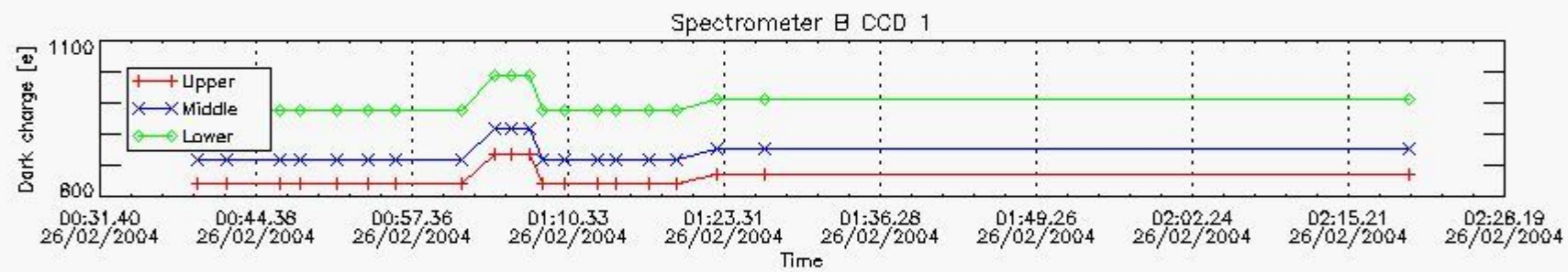
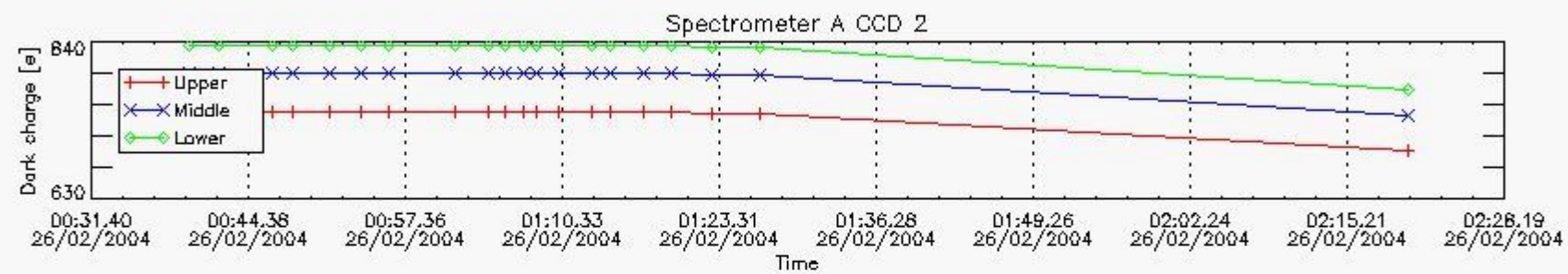
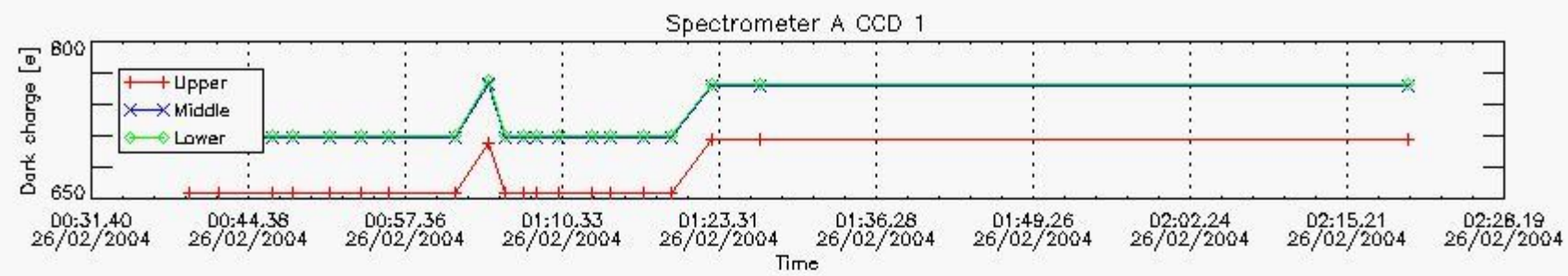
4. Overview of dark signal processing per product

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

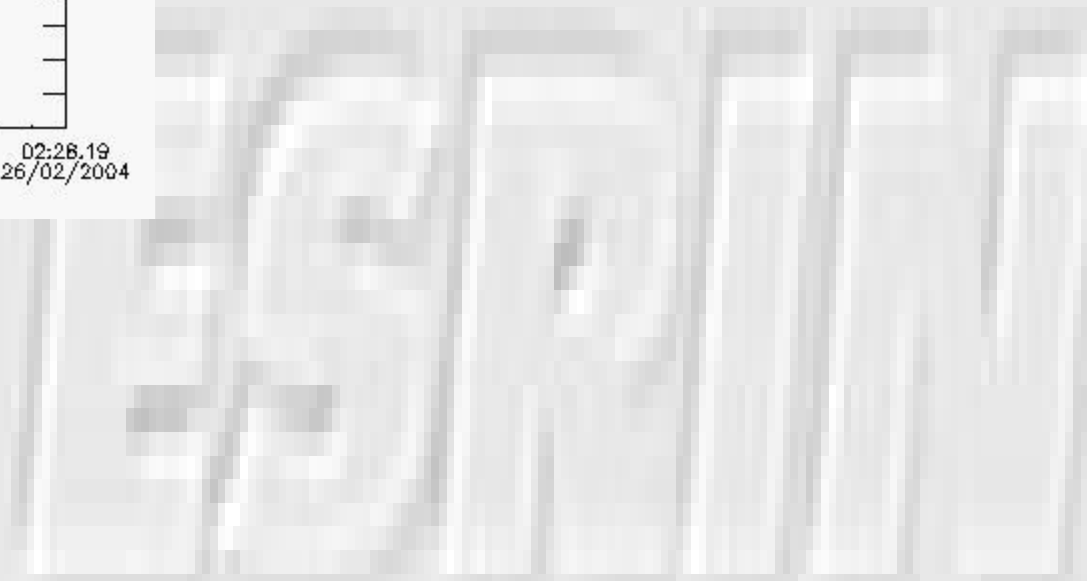
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



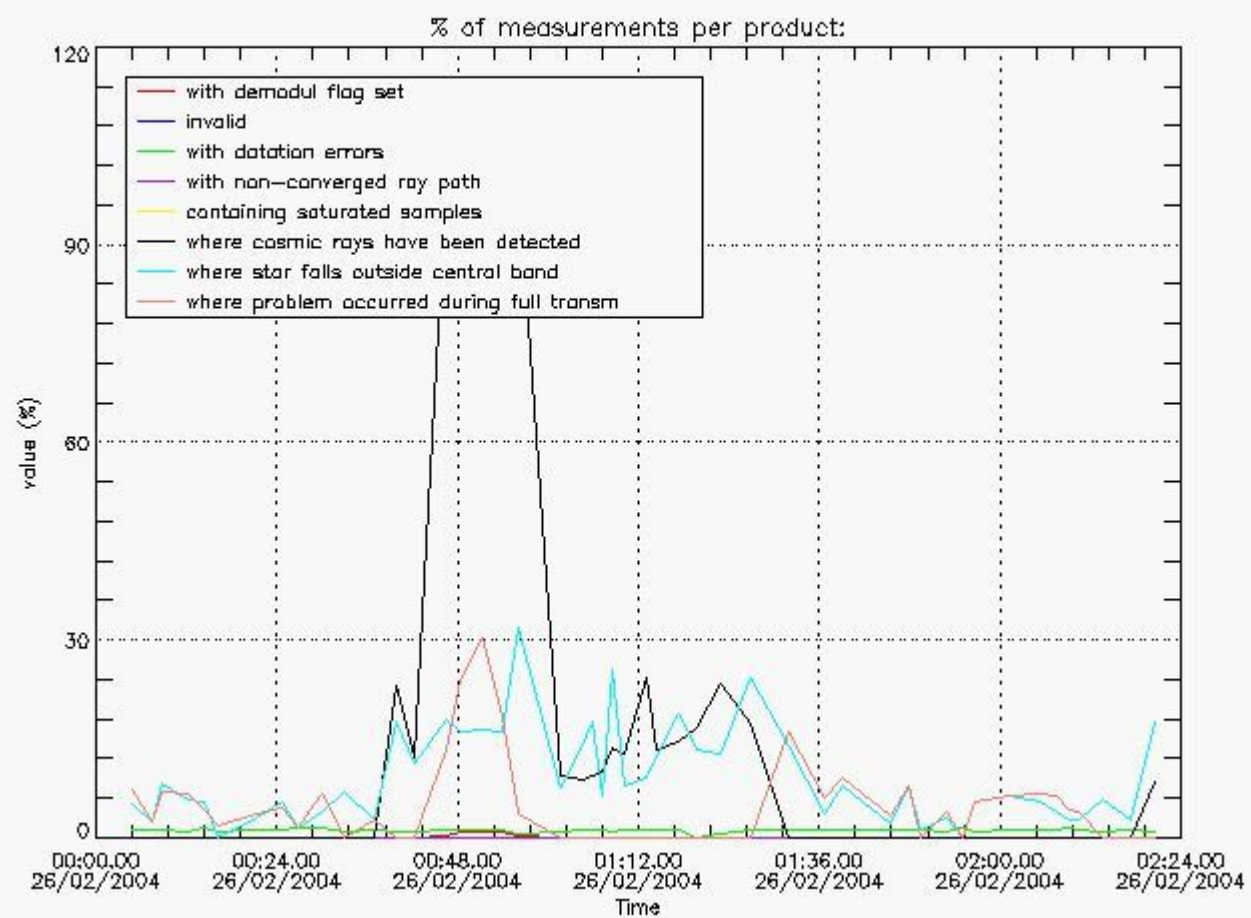
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.2857 %
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



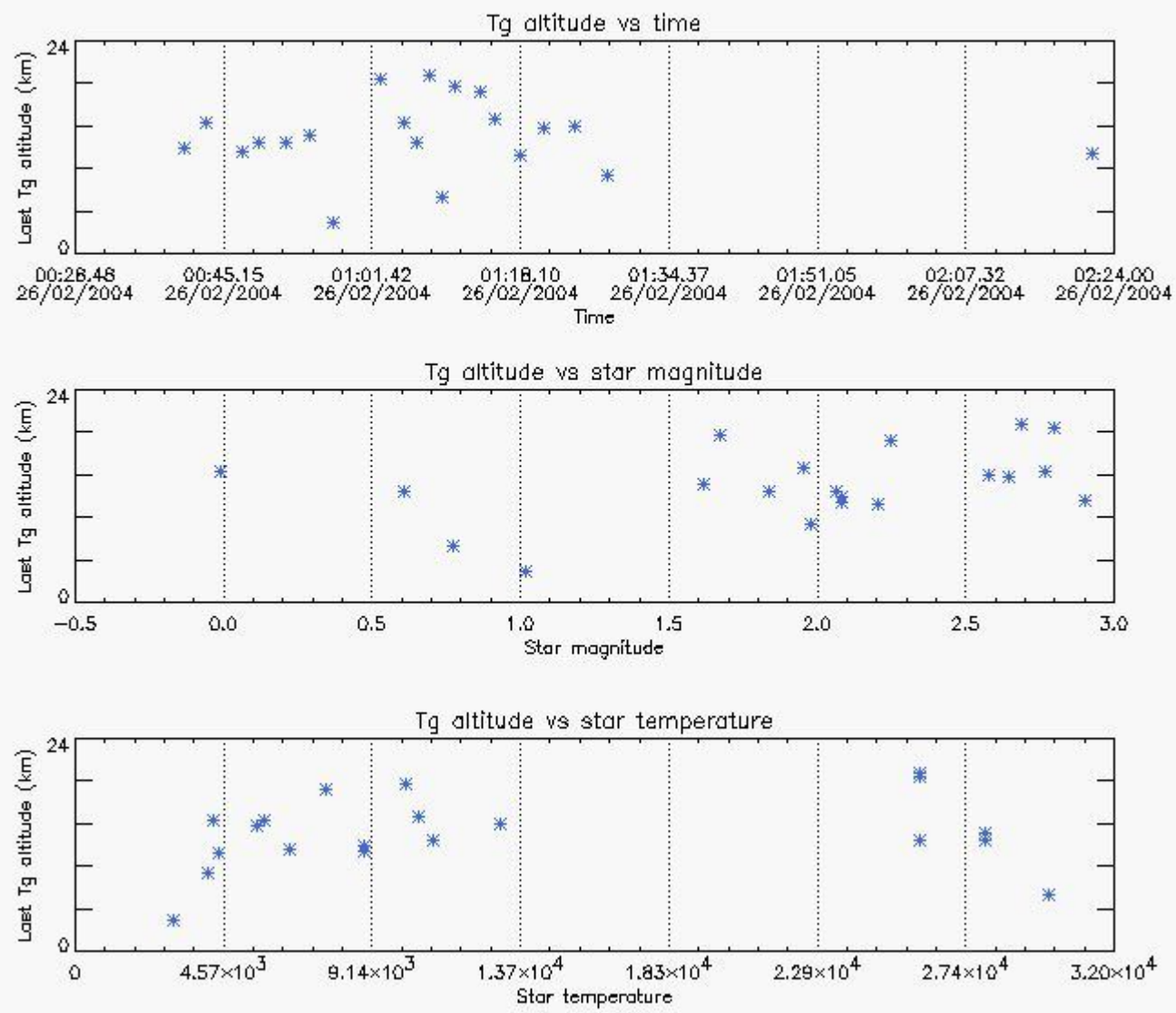
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

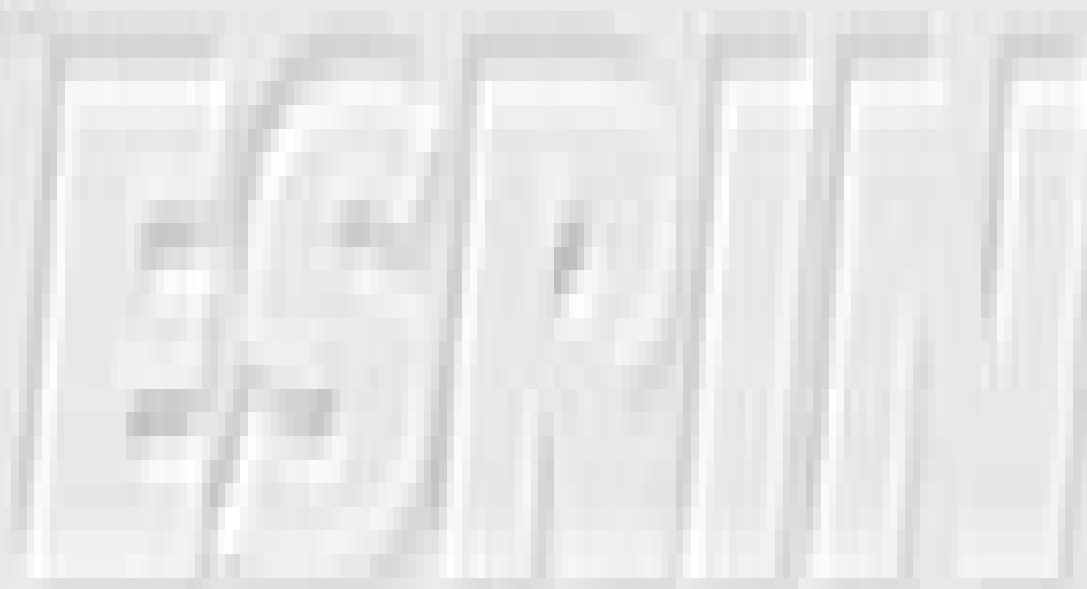
Statistics	DARK	BRIGHT
Mean:	13.256	21.834
St. deviation:	4.1854	2.9570
Maximum:	20.091	26.993
Minimum:	3.4919	12.417
Number of data:	20.000	29.000

6.2 Plot for DARK limb products

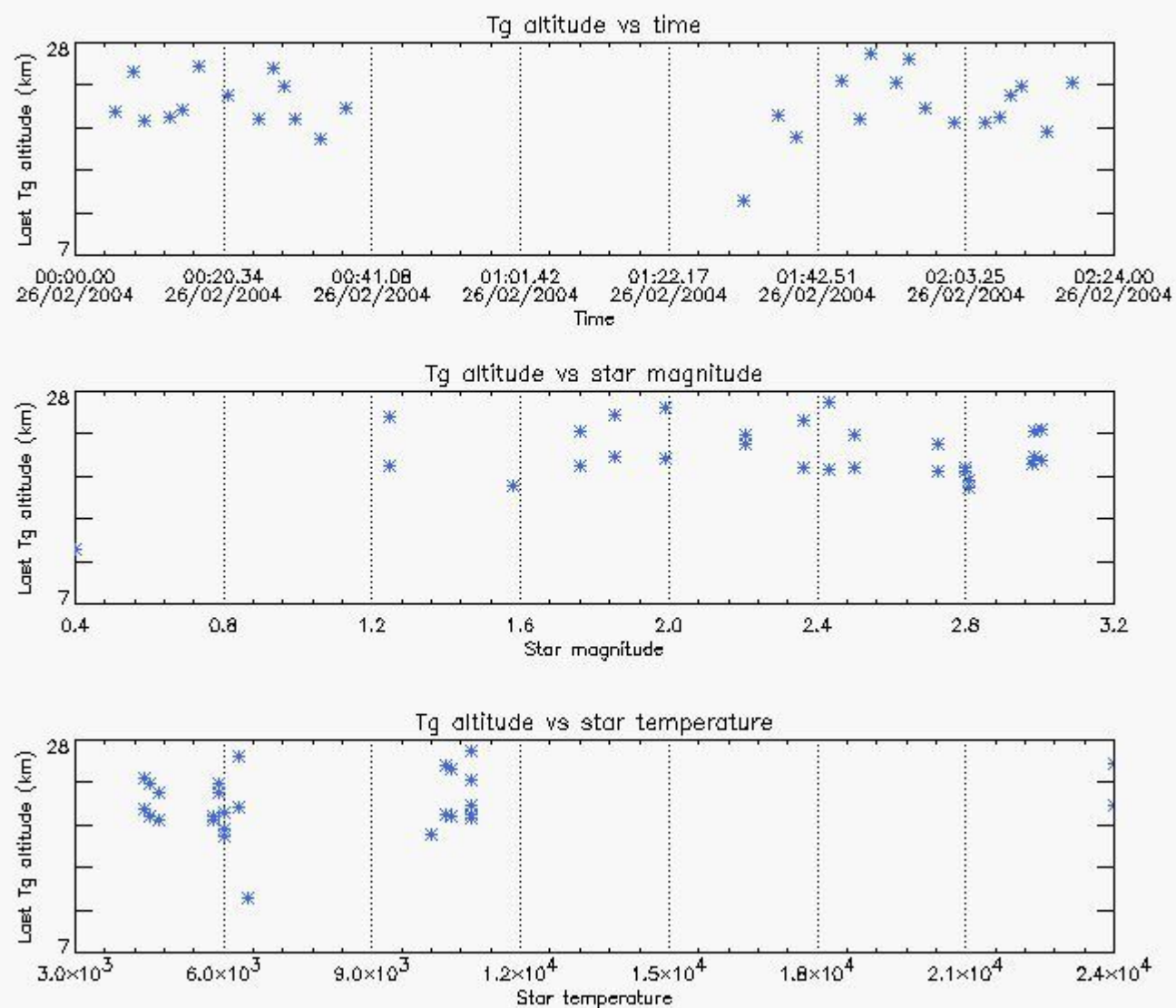
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



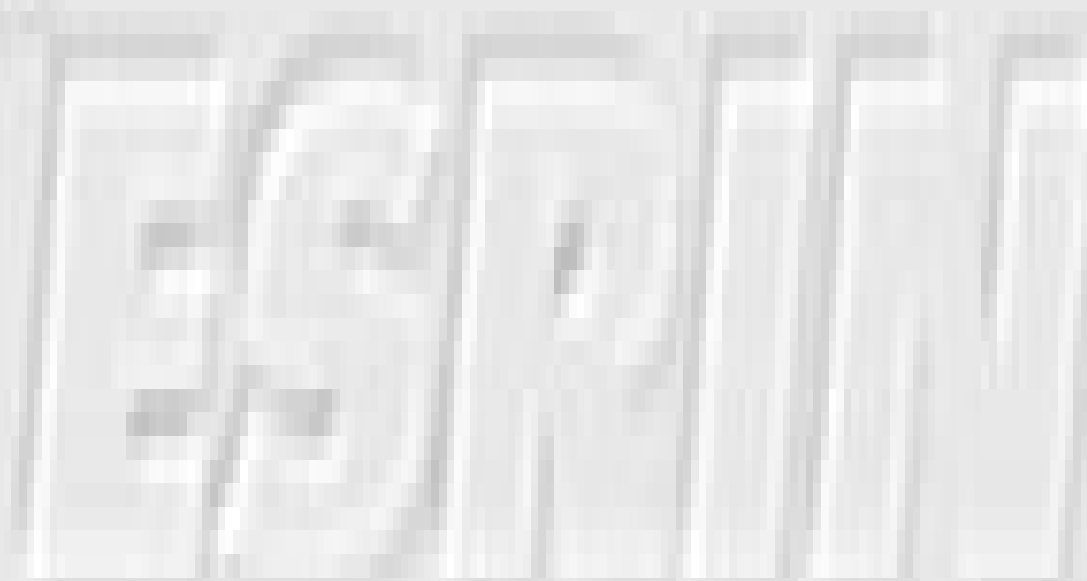
Tangent altitude at which the star is lost



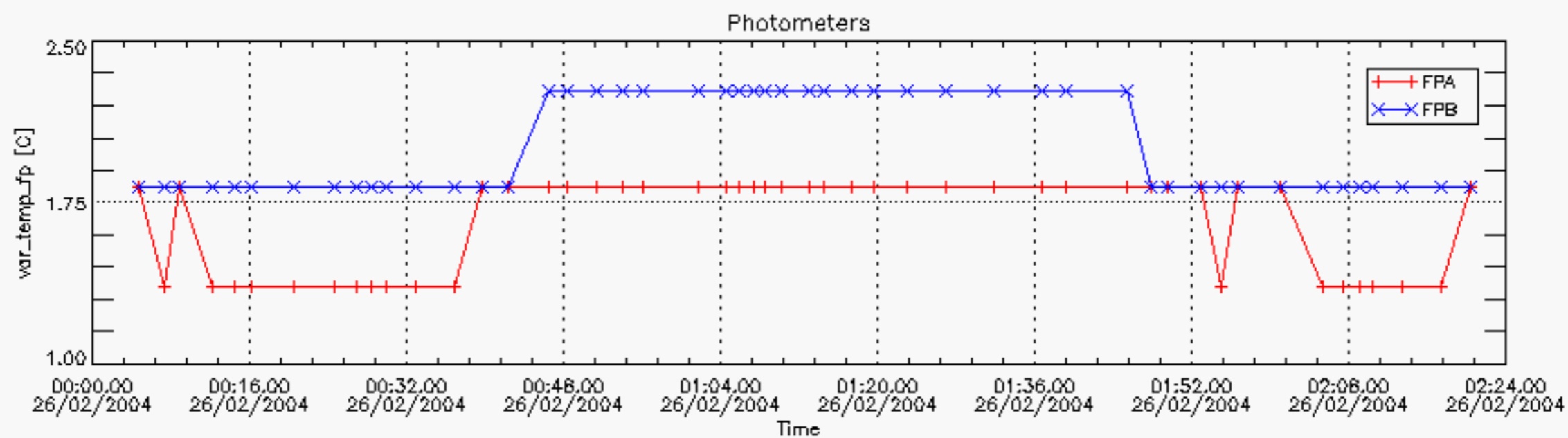
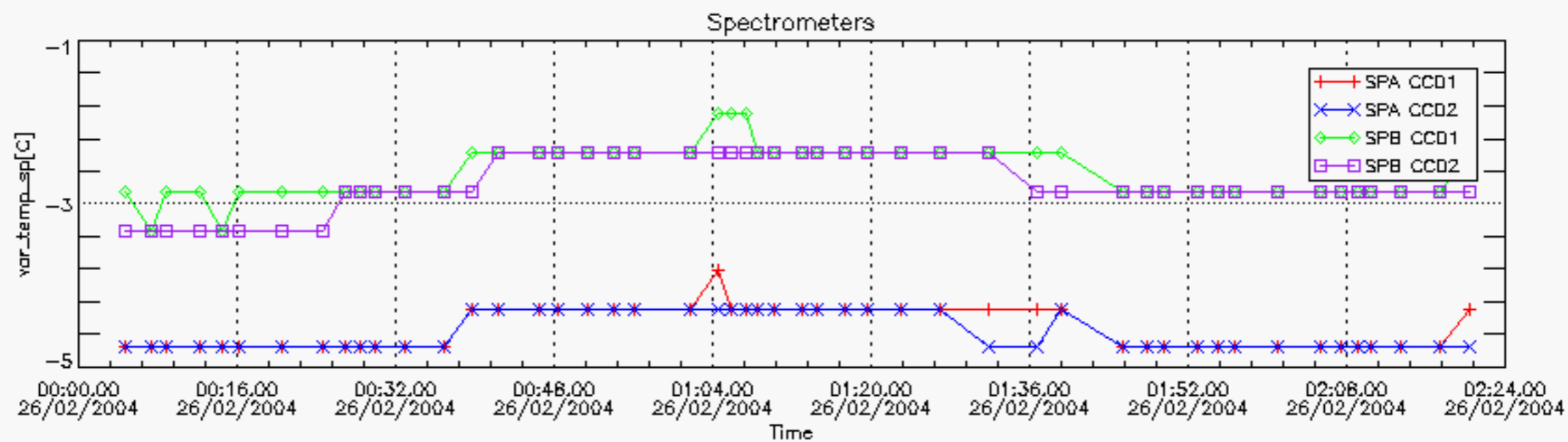
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

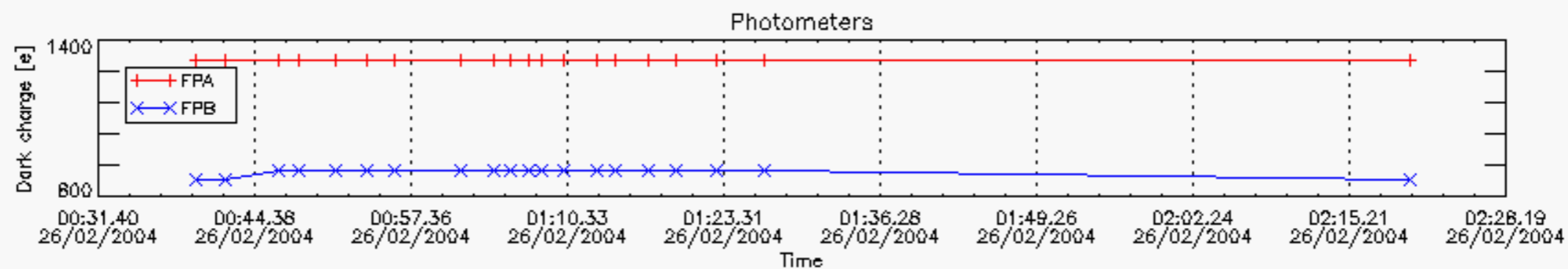
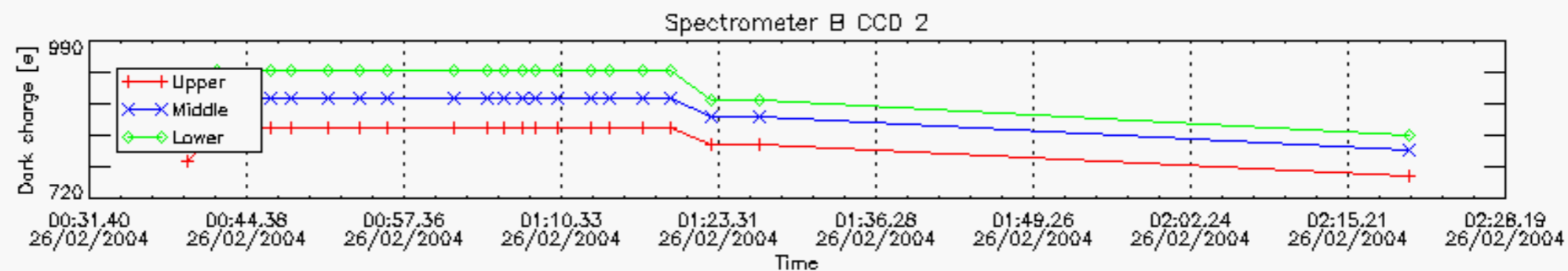
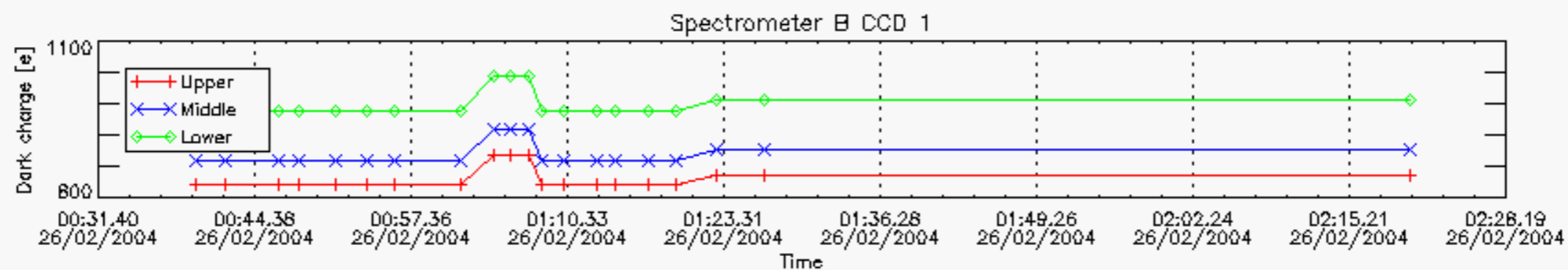
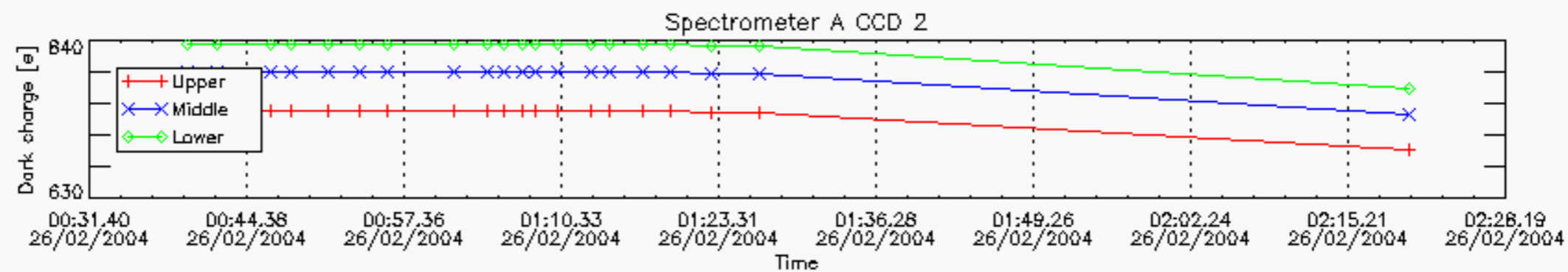
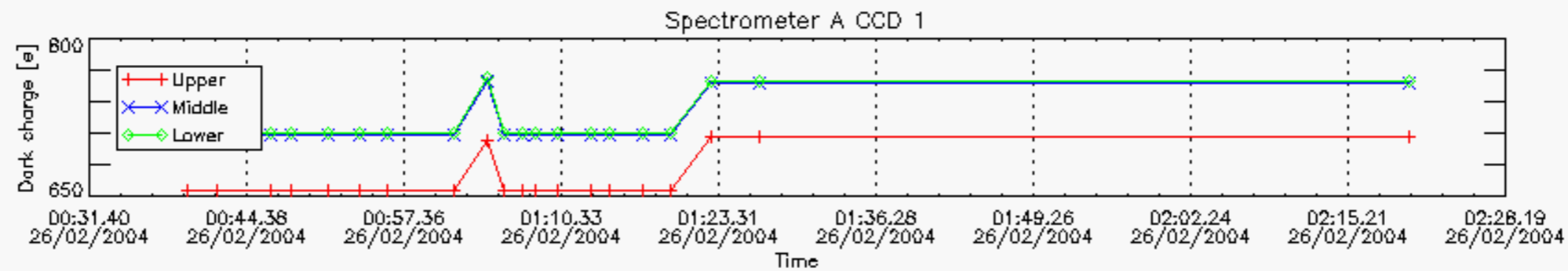
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

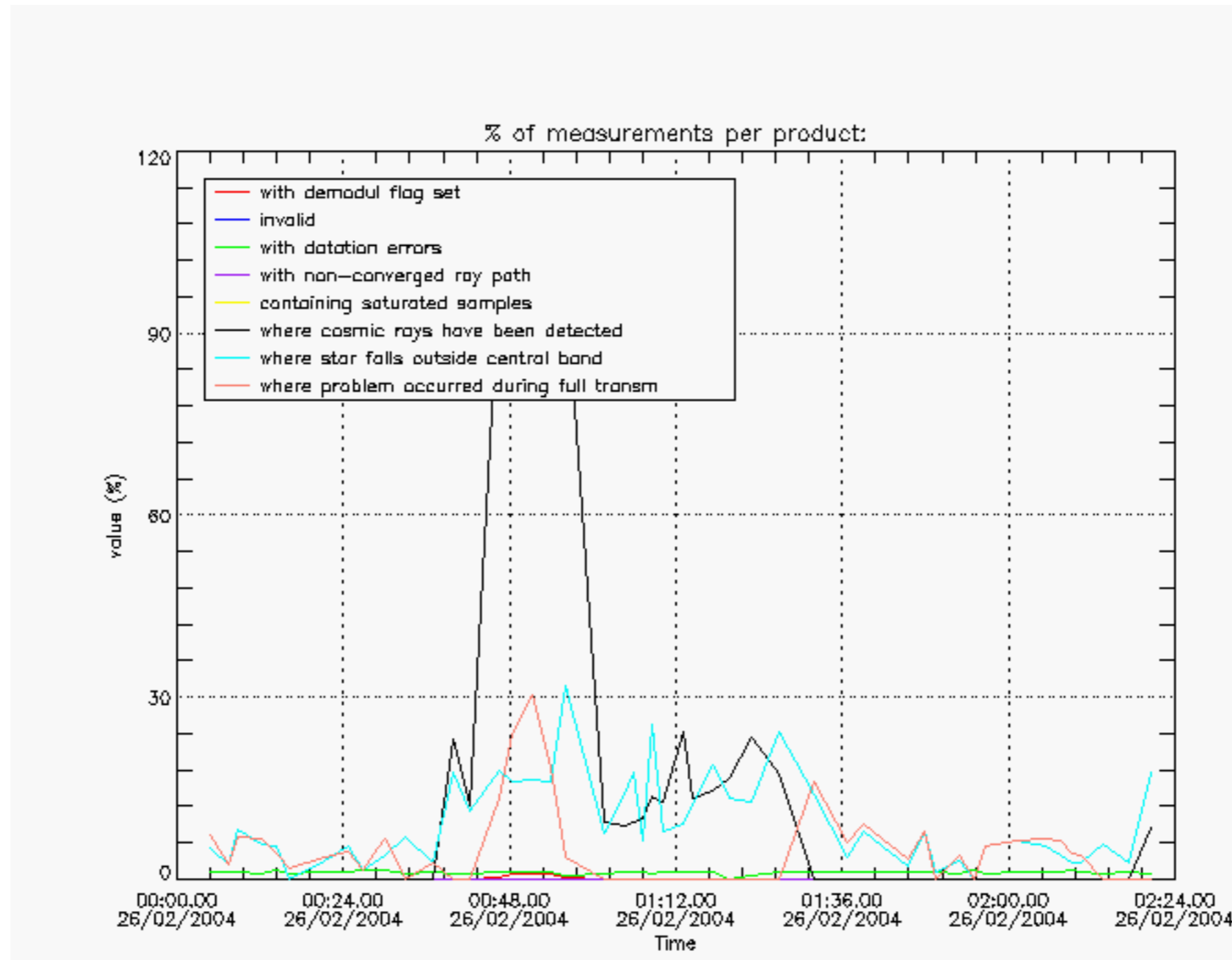
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1447.7	1461.4	1448.0
St. deviation:	4.9974	5.8306	7.1097	8.0732
Maximum:	1499.0	1614.0	1510.0	1495.0
Minimum:	1446.0	1433.0	1417.0	1405.0
Number of data:	25400.	25400.	35700.	35700.



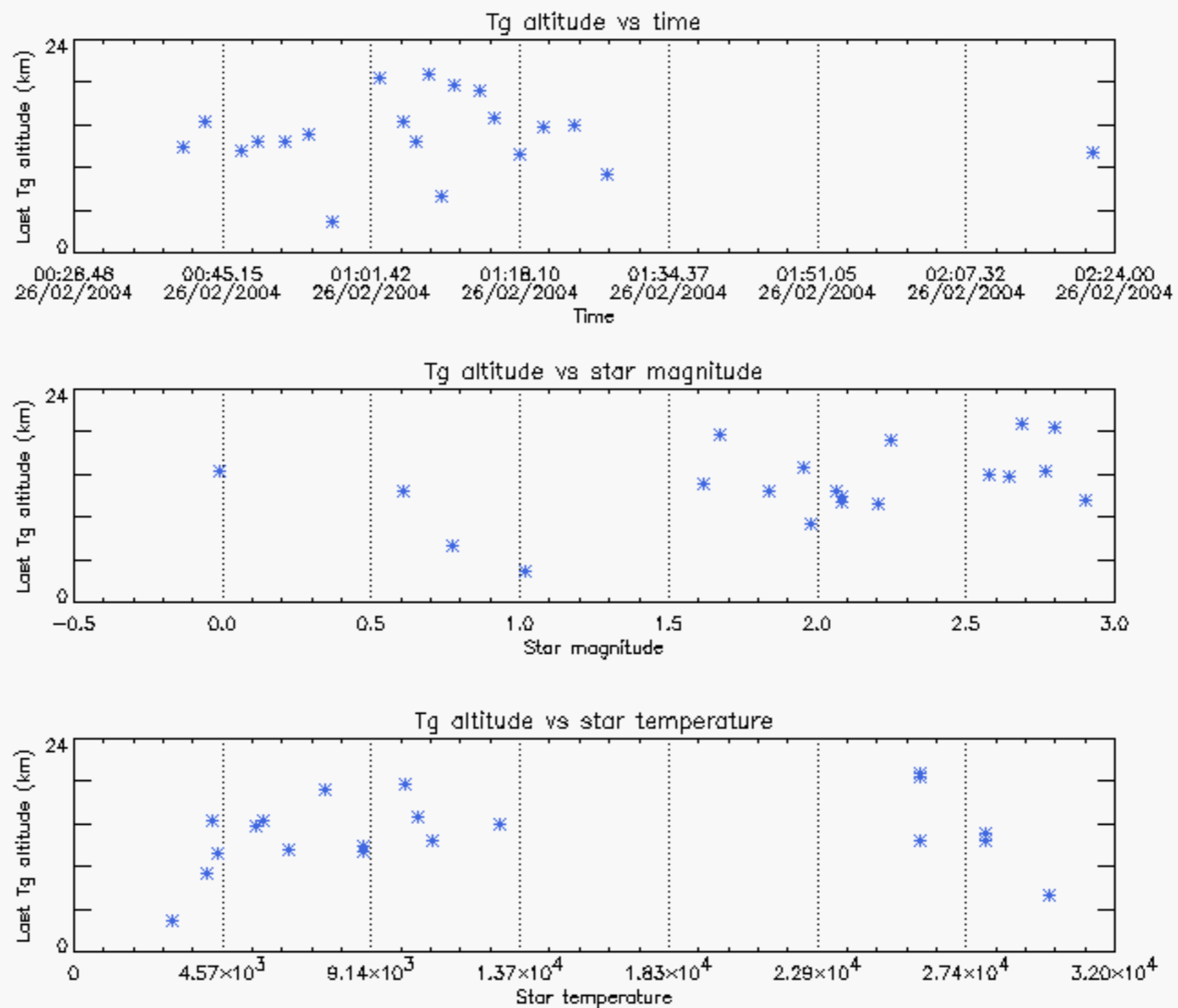




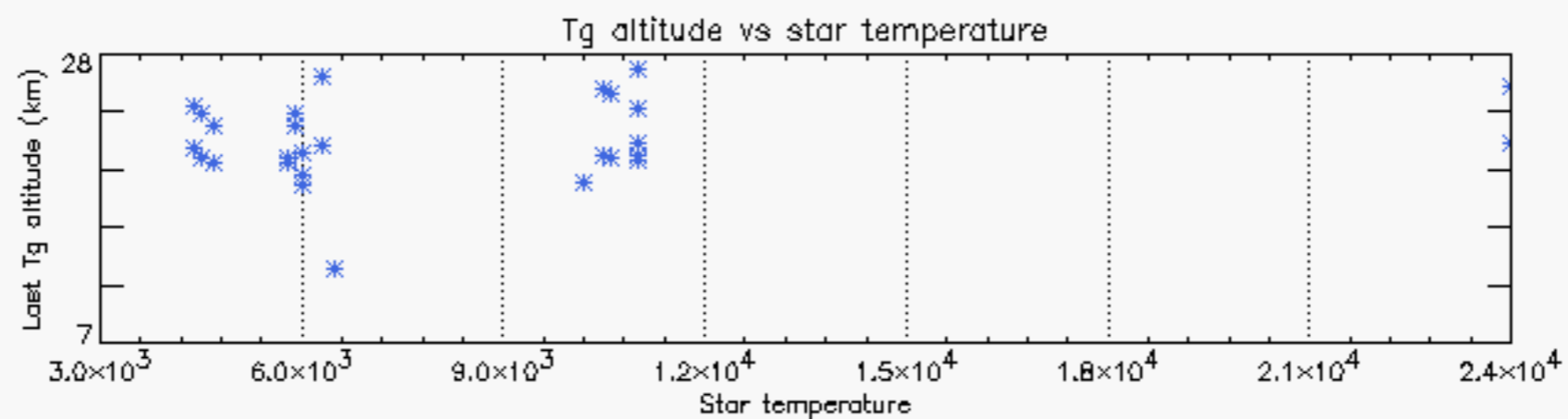
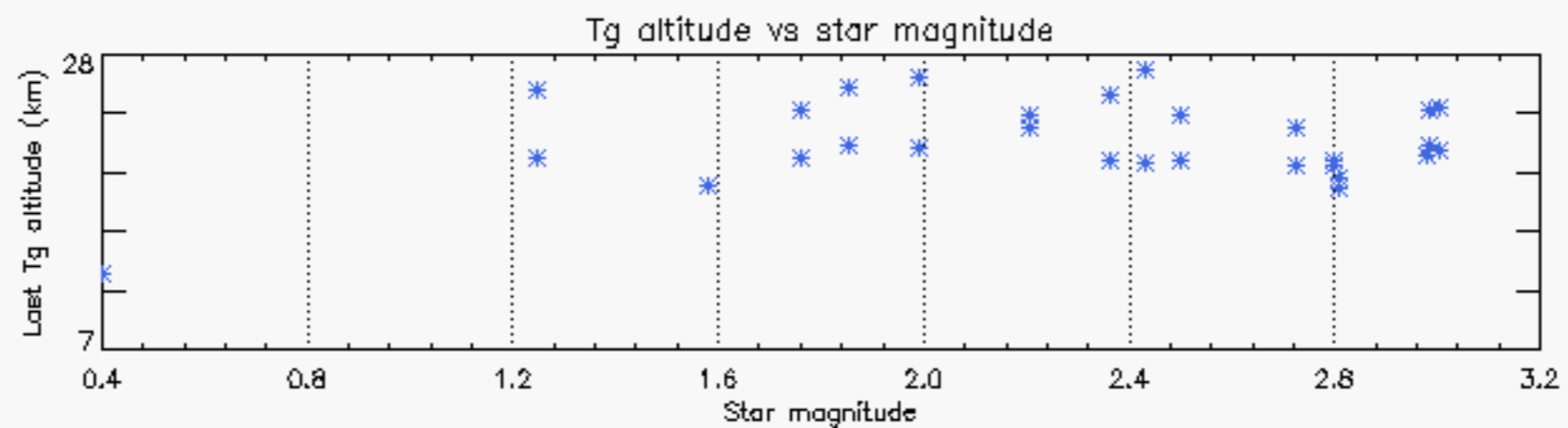
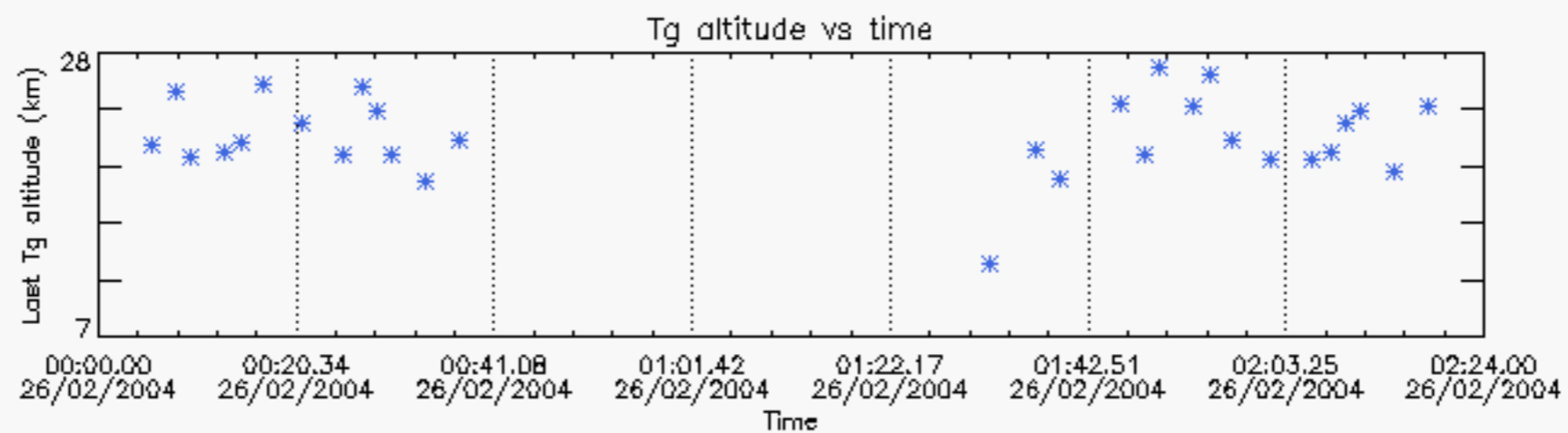




Tangent altitude at which the star is lost



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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26;	276.7;	03-FEB-2004	11:29:01;	Dark	;	58.5;	0;		;	0.00;	0;occ;	117;	0;	10083
27;	484.6;	03-FEB-2004	11:32:29;	Dark	;	43.0;	12;	Alp1Cru	;	0.77;	30000;occ;	86;	0;	10083
28;	687.3;	03-FEB-2004	11:35:52;	Dark	;	45.5;	29;	Bet Car	;	1.67;	10200;occ;	91;	0;	10083
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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
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7;	-3462.6;	03-FEB-2004	12:07:18;	Bright;	;	37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	10083
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12;	-2327.9;	03-FEB-2004	12:26:12;	Bright;	;	54.5;	55;	79Zet UMa	;	2.06;	10200;occ;	109;	0;	10083
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29;	687.5;	03-FEB-2004	13:16:28;	Dark	;	39.5;	29;	Bet Car	;	1.67;	10200;occ;	79;	0;	10084
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6;	-3587.0;	08-FEB-2004	11:07:44;	Bright;		39.0;	24;	66Alp Gem	;	1.58;	10200;occ;	78;	0;	10154
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9;	-3175.6;	08-FEB-2004	11:14:36;	Bright;		112.0;	96;	68Del Leo	;	2.56;	9300;occ;	224;	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
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28; 580.3; 16-FEB-2004 14:46:39; Dark ; 53.0; 12; Alp1Cru ; 0.77; 30000;occ; 106; 0;10271
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27;	319.2;	16-FEB-2004	16:22:54;	Dark	;	44.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	88;	0;10272
28;	398.6;	16-FEB-2004	16:24:13;	Dark	;	42.0;	10;	Bet Cen	;	0.61;	28000;occ;	84;	0;10272
29;	480.9;	16-FEB-2004	16:25:36;	Dark	;	46.5;	77;	Eps Cen	;	2.30;	28000;occ;	93;	0;10272
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6;	-3277.0;	16-FEB-2004	17:03:34;	Bright;	39.0;	42;	34Bet Aur	;	1.90;	10200;occ;	78;	0;10272	
7;	-3066.1;	16-FEB-2004	17:07:05;	Bright;	55.0;	174;	52Psi UMa	;	3.00;	4400;occ;	110;	0;10272	
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31;	724.6;	16-FEB-2004	18:10:16;	Dark	;	40.5;	29;	Bet Car	;	1.67;	10200;occ;	81;	0;10273
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33;	979.4;	16-FEB-2004	18:14:30;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;occ;	85;	0;10273
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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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