

GOMOS Daily Report 10-APR-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	11APR2004 06:01:53
Data source version	GOMOS/4.02
Start time of products	10-APR-2004 (10APR2004 00:00:00)
Stop time of products	11-APR-2004 (11APR2004 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

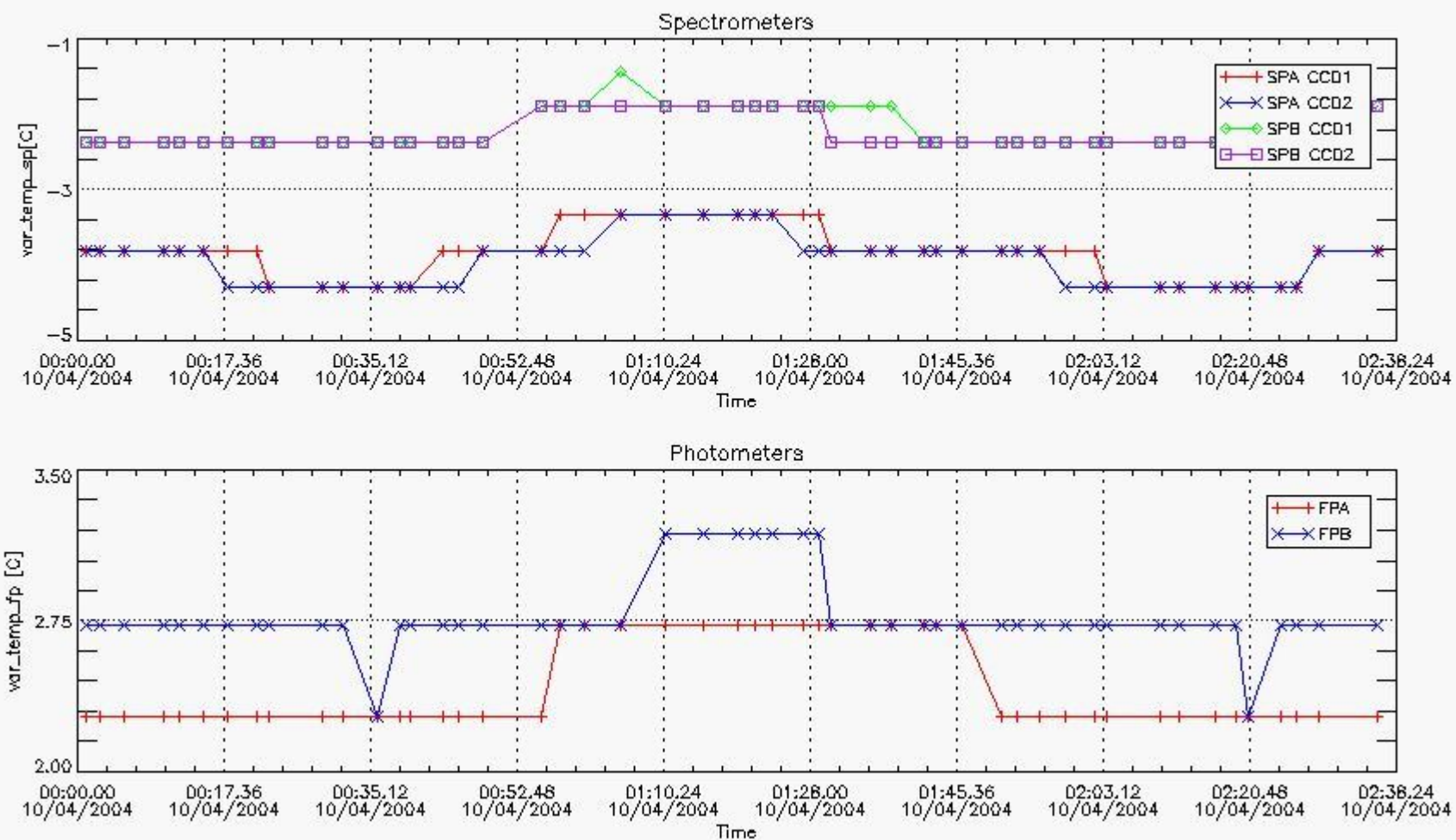
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040410_000103_000000432025_00460_11035_0002.N1	10-APR-2004 00:01:03	Dark	43.000	100	4Gam Crv	2.5800	13100.	86	11035	No
GOM_TRA_1PNPDE20040410_000235_000000522025_00460_11035_0003.N1	10-APR-2004 00:02:35	Bright	51.500	15	67Alp Vir	0.97600	28000.	103	11035	No
GOM_TRA_1PNPDE20040410_000540_000000422025_00460_11035_0004.N1	10-APR-2004 00:05:40	Bright	42.000	121	29Gam Vir	2.7400	7200.0	84	11035	No
GOM_TRA_1PNPDE20040410_001022_000000372025_00460_11035_0005.N1	10-APR-2004 00:10:22	Bright	37.000	62	94Bet Leo	2.1360	9700.0	74	11035	No
GOM_TRA_1PNPDE20040410_001211_000000372025_00460_11035_0006.N1	10-APR-2004 00:12:11	Bright	37.000	96	68Del Leo	2.5600	9300.0	74	11035	No
GOM_TRA_1PNPDE20040410_001502_000000652025_00460_11035_0007.N1	10-APR-2004 00:15:02	Bright	64.500	3	16Alp Boo	-0.050000	4250.0	129	11035	No
GOM_TRA_1PNPDE20040410_001801_000000422025_00460_11035_0008.N1	10-APR-2004 00:18:01	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	11035	No
GOM_TRA_1PNPDE20040410_002132_000000382025_00460_11035_0009.N1	10-APR-2004 00:21:32	Bright	38.000	87	64Gam UMa	2.4330	11000.	76	11035	No
GOM_TRA_1PNPDE20040410_002256_000000412025_00460_11035_0010.N1	10-APR-2004 00:22:56	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	11035	No
GOM_TRA_1PNPDE20040410_002922_000000382025_00460_11035_0011.N1	10-APR-2004 00:29:22	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	11035	No
GOM_TRA_1PNPDE20040410_003148_000000372025_00460_11035_0012.N1	10-APR-2004 00:31:48	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	11035	No
GOM_TRA_1PNPDE20040410_003606_000000622025_00460_11035_0013.N1	10-APR-2004 00:36:06	Bright	62.000	130	23Bet Dra	2.7990	5800.0	124	11035	No
GOM_TRA_1PNPDE20040410_003839_000000372025_00460_11035_0014.N1	10-APR-2004 00:38:39	Bright	36.500	110	37Del Cas	2.6780	8900.0	73	11035	No
GOM_TRA_1PNPDE20040410_003959_000000352025_00460_11035_0015.N1	10-APR-2004 00:39:59	Bright	34.500	74	11Bet Cas	2.2680	6600.0	69	11035	No
GOM_TRA_1PNPDE20040410_004359_000000652025_00460_11035_0016.N1	10-APR-2004 00:43:59	Bright	64.500	144	18Del Cyg	2.8600	11000.	129	11035	No
GOM_TRA_1PNPDE20040410_004542_000001072025_00460_11035_0017.N1	10-APR-2004 00:45:42	Bright	106.50	5	3Alp Lyr	0.033000	11000.	213	11035	No
GOM_TRA_1PNPDE20040410_004834_000000522025_00460_11035_0018.N1	10-APR-2004 00:48:34	Bright	51.500	92	53Eps Cyg	2.5000	4500.0	103	11035	No
GOM_TRA_1PNPDE20040410_005536_000000512025_00460_11035_0019.N1	10-APR-2004 00:55:36	Dark	50.500	61	8Eps Peg	2.1000	3900.0	101	11035	No
GOM_TRA_1PNPDE20040410_005804_000000472025_00460_11035_0020.N1	10-APR-2004 00:58:04	Dark	47.000	162	34Alp Aqr	2.9440	5350.0	94	11035	No
GOM_TRA_1PNPDE20040410_010047_000000872025_00460_11035_0021.N1	10-APR-2004 01:00:47	Dark	87.000	11	53Alp Aql	0.76500	8000.0	174	11035	No
GOM_TRA_1PNPDE20040410_010515_000000452025_00460_11035_0022.N1	10-APR-2004 01:05:15	Dark	45.000	18	24Alp PsA	1.1660	9700.0	90	11035	No
GOM_TRA_1PNPDE20040410_011033_000000412025_00460_11035_0023.N1	10-APR-2004 01:10:33	Dark	41.000	31	Alp Gru	1.7340	15200.	82	11035	No
GOM_TRA_1PNPDE20040410_011515_000000422025_00461_11036_0024.N1	10-APR-2004 01:15:15	Dark	42.000	45	Alp Pav	1.9400	26000.	84	11036	No
GOM_TRA_1PNPDE20040410_011918_000000672025_00461_11036_0025.N1	10-APR-2004 01:19:18	Dark	67.000	38	20Eps Sgr	1.8360	11000.	134	11036	No
GOM_TRA_1PNPDE20040410_012118_000000782025_00461_11036_0026.N1	10-APR-2004 01:21:18	Dark	77.500	167	10Gam2Sgr	2.9840	4500.0	155	11036	No
GOM_TRA_1PNPDE20040410_012327_000000672025_00461_11036_0027.N1	10-APR-2004 01:23:27	Dark	66.500	25	35Lam Sco	1.6200	28000.	133	11036	No
GOM_TRA_1PNPDE20040410_012715_000000482025_00461_11036_0028.N1	10-APR-2004 01:27:15	Dark	48.000	4	Alp1Cen	-0.010000	5800.0	96	11036	No
GOM_TRA_1PNPDE20040410_012901_000000452025_00461_11036_0029.N1	10-APR-2004 01:29:01	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	11036	No
GOM_TRA_1PNPDE20040410_013032_000000472025_00461_11036_0030.N1	10-APR-2004 01:30:32	Dark	46.500	26	Gam Cru	1.6240	2900.0	93	11036	No
GOM_TRA_1PNPDE20040410_013517_000000432025_00461_11036_0031.N1	10-APR-2004 01:35:17	Dark	42.500	123	lot Cen	2.7500	10200.	85	11036	No
GOM_TRA_1PNPDE20040410_013742_000001092025_00461_11036_0000.N1	10-APR-2004 01:37:42	Dark	109.00	97	8Bet1Sco	2.5610	30000.	218	11036	No
GOM_TRA_1PNPDE20040410_014137_000000442025_00461_11036_0001.N1	10-APR-2004 01:41:37	Dark	44.000	100	4Gam Crv	2.5800	13100.	88	11036	No
GOM_TRA_1PNPDE20040410_014311_000000502025_00461_11036_0002.N1	10-APR-2004 01:43:11	Bright	50.000	15	67Alp Vir	0.97600	28000.	100	11036	No
GOM_TRA_1PNPDE20040410_014616_000000422025_00461_11036_0003.N1	10-APR-2004 01:46:16	Bright	41.500	121	29Gam Vir	2.7400	7200.0	83	11036	No
GOM_TRA_1PNPDE20040410_015058_000000382025_00461_11036_0004.N1	10-APR-2004 01:50:58	Bright	37.500	62	94Bet Leo	2.1360	9700.0	75	11036	No
GOM_TRA_1PNPDE20040410_015246_000000382025_00461_11036_0005.N1	10-APR-2004 01:52:46	Bright	38.000	96	68Del Leo	2.5600	9300.0	76	11036	No
GOM_TRA_1PNPDE20040410_015538_000000642025_00461_11036_0006.N1	10-APR-2004 01:55:38	Bright	64.000	3	16Alp Boo	-0.050000	4250.0	128	11036	No
GOM_TRA_1PNPDE20040410_015835_000000432025_00461_11036_0007.N1	10-APR-2004 01:58:35	Bright	42.500	152	12Alp2CVn	2.8900	11000.	85	11036	No
GOM_TRA_1PNPDE20040410_020208_000000382025_00461_11036_0008.N1	10-APR-2004 02:02:08	Bright	37.500	87	64Gam UMa	2.4330	11000.	75	11036	No
GOM_TRA_1PNPDE20040410_020330_000000422025_00461_11036_0009.N1	10-APR-2004 02:03:30	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	11036	No
GOM_TRA_1PNPDE20040410_020957_000000432025_00461_11036_0010.N1	10-APR-2004 02:09:57	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	11036	No
GOM_TRA_1PNPDE20040410_021224_000000382025_00461_11036_0011.N1	10-APR-2004 02:12:24	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	11036	No
GOM_TRA_1PNPDE20040410_021641_000000612025_00461_11036_0012.N1	10-APR-2004 02:16:41	Bright	61.000	130	23Bet Dra	2.7990	5800.0	122	11036	No
GOM_TRA_1PNPDE20040410_021914_000000402025_00461_11036_0013.N1	10-APR-2004 02:19:14	Bright	39.500	110	37Del Cas	2.6780	8900.0	79	11036	No
GOM_TRA_1PNPDE20040410_022035_000000392025_00461_11036_0014.N1	10-APR-2004 02:20:35	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	11036	No
GOM_TRA_1PNPDE20040410_022434_000000522025_00461_11036_0015.N1	10-APR-2004 02:24:34	Bright	51.500	144	18Del Cyg	2.8600	11000.	103	11036	No
GOM_TRA_1PNPDE20040410_022618_000000992025_00461_11036_0016.N1	10-APR-2004 02:26:18	Bright	99.000	5	3Alp Lyr	0.033000	11000.	198	11036	No
GOM_TRA_1PNPDE20040410_022909_000000522025_00461_11036_0017.N1	10-APR-2004 02:29:09	Bright	52.000	92	53Eps Cyg	2.5000	4500.0	104	11036	No
GOM_TRA_1PNPDE20040410_023611_000000512025_00461_11036_0018.N1	10-APR-2004 02:36:11	Dark	50.500	61	8Eps Peg	2.1000	3900.0	101	11036	No

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



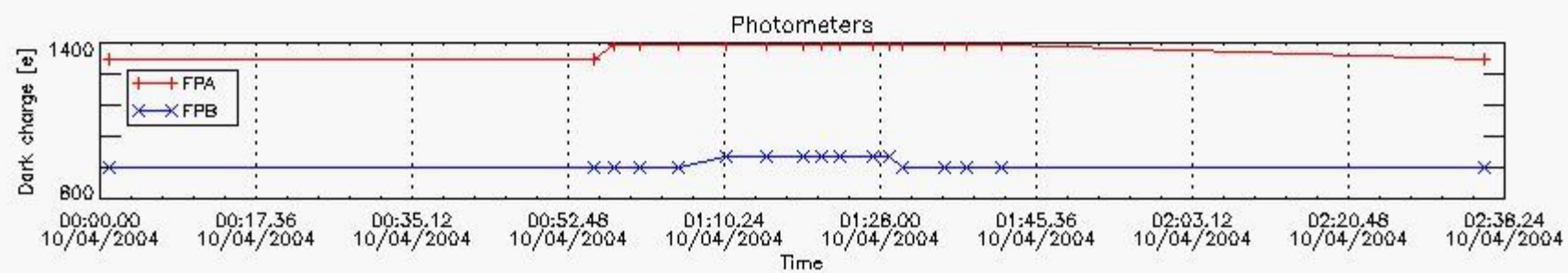
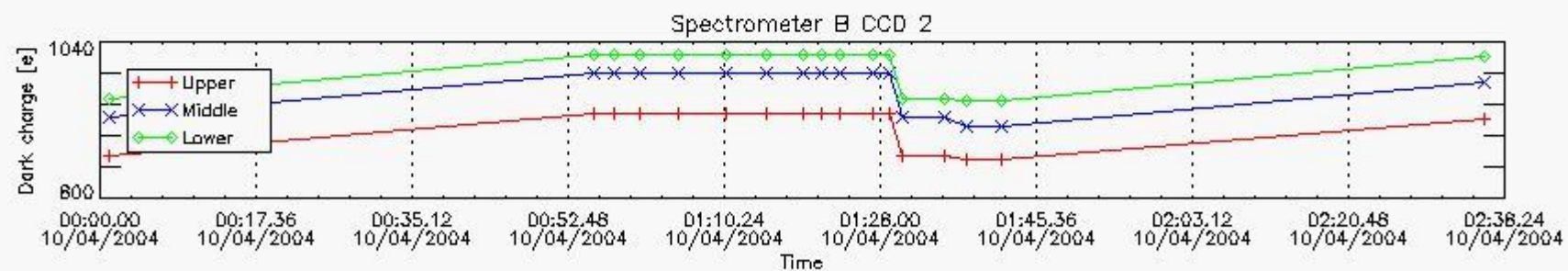
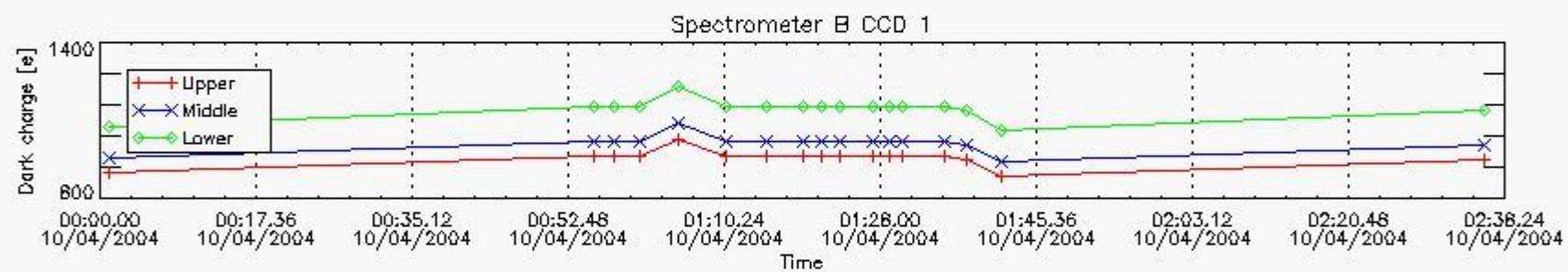
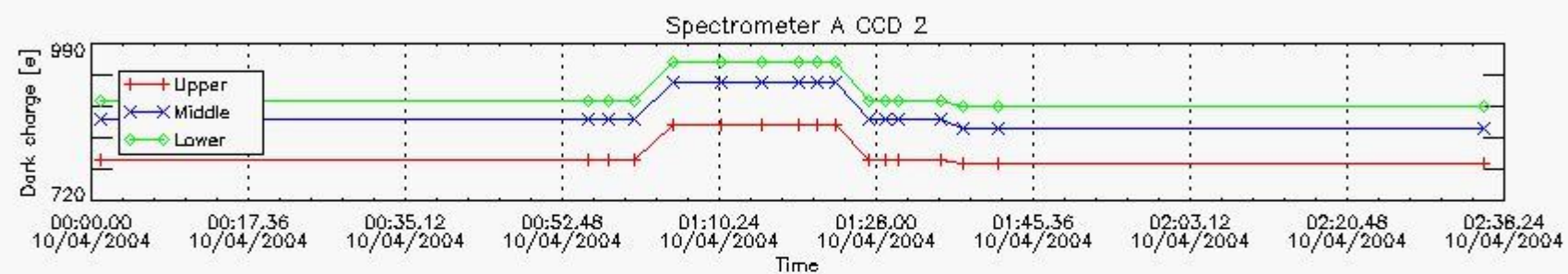
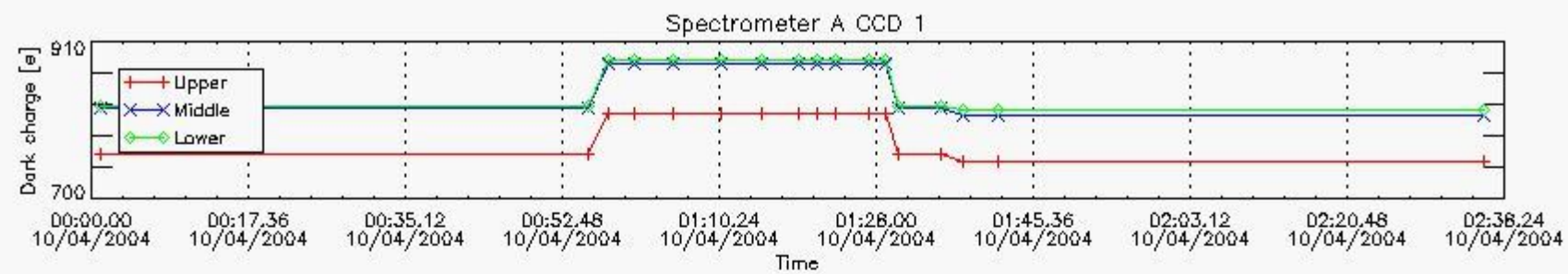
4. Overview of dark signal processing per product

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

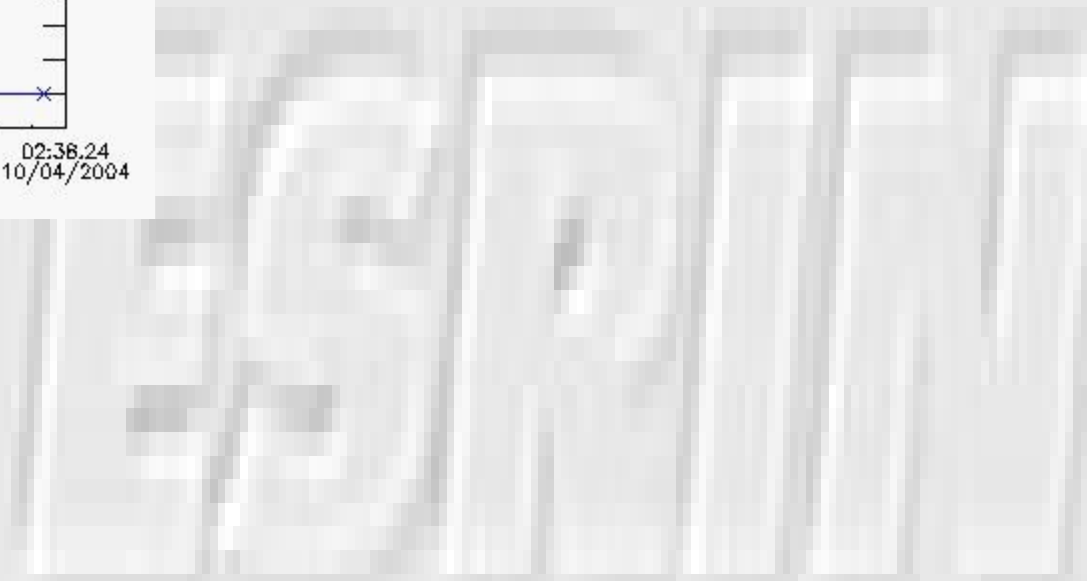
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



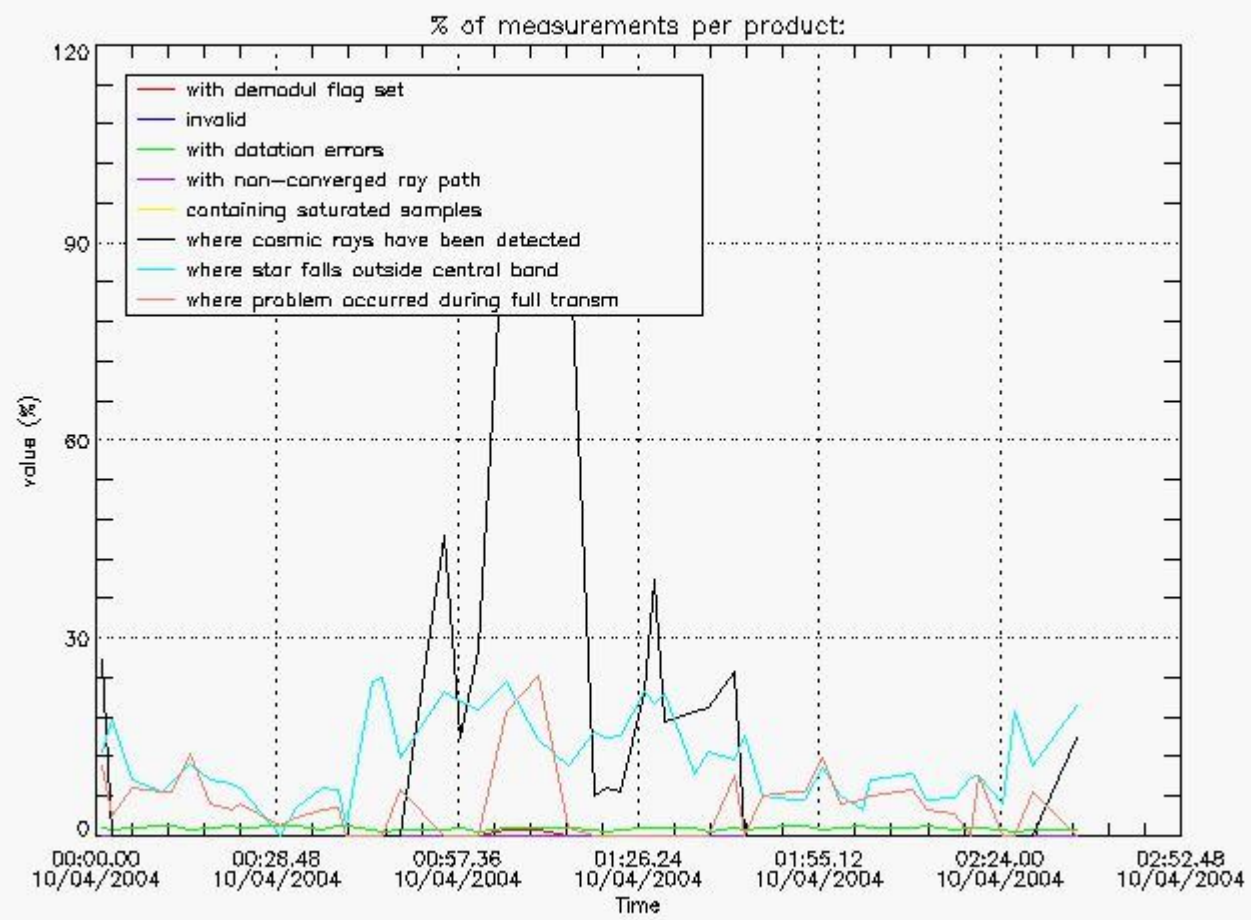
5. Demodulation flag and quality information monitoring

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



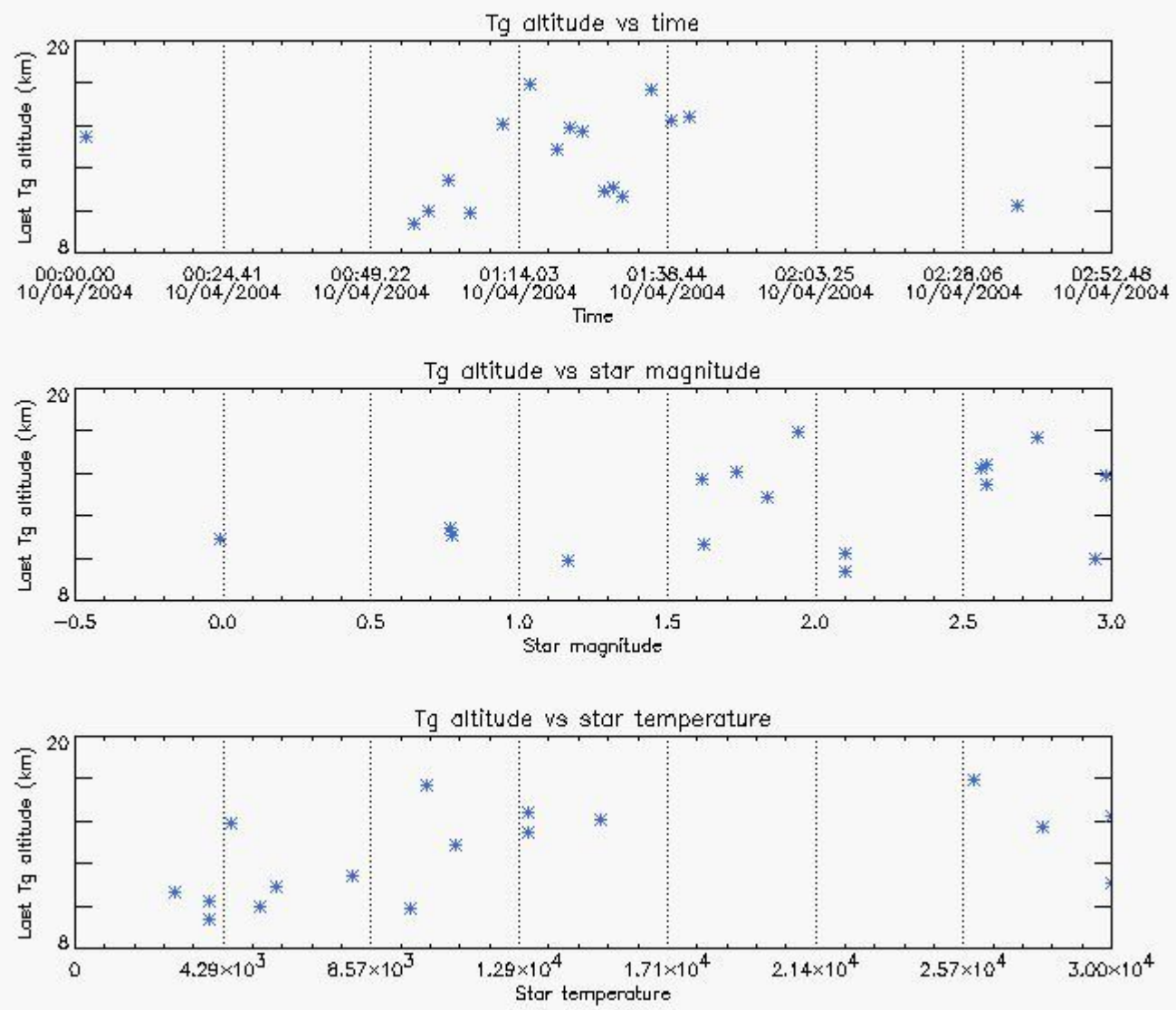
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.360	19.259
St. deviation:	2.5530	4.0025
Maximum:	17.517	26.933
Minimum:	9.6916	9.9222
Number of data:	17.000	32.000

6.2 Plot for DARK limb products

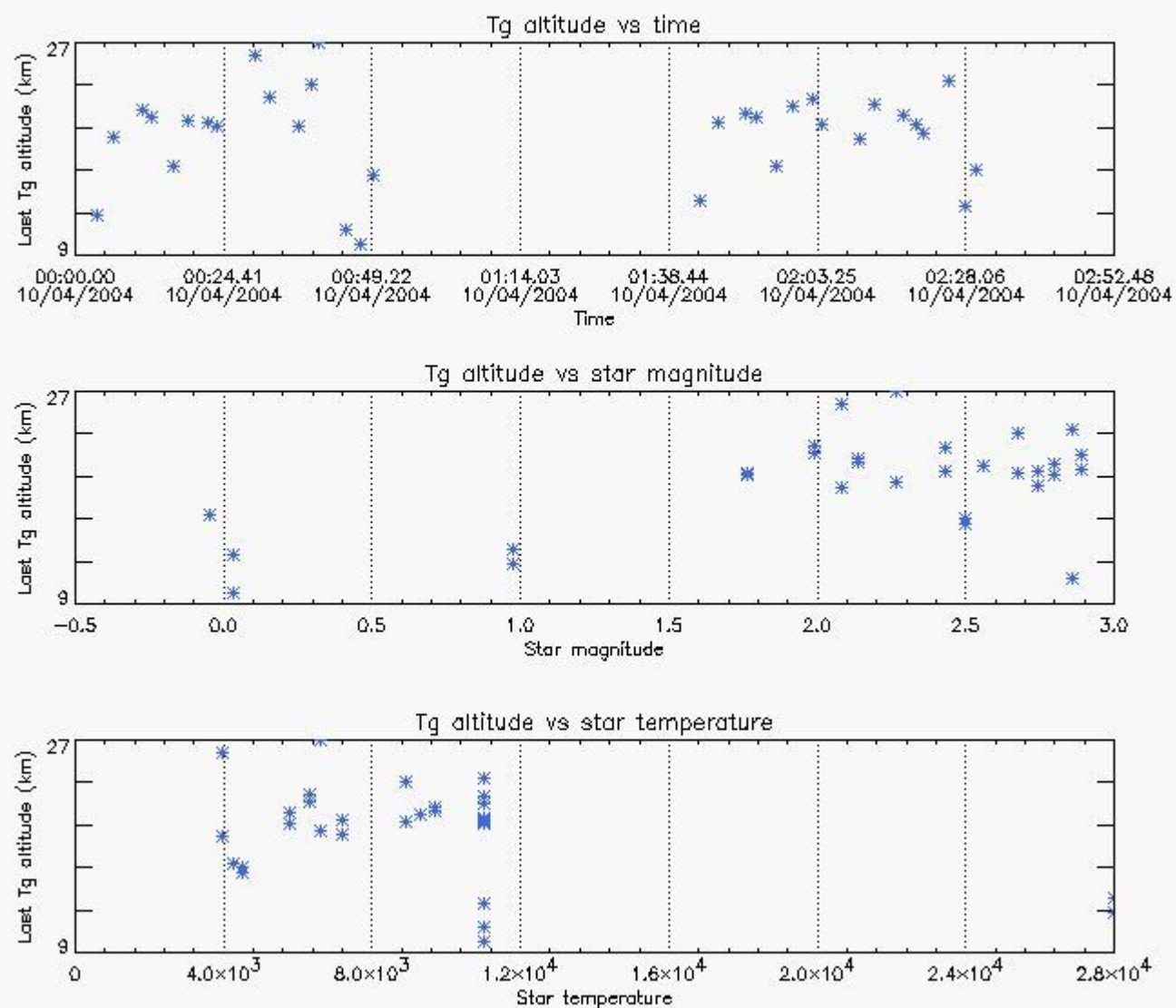
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



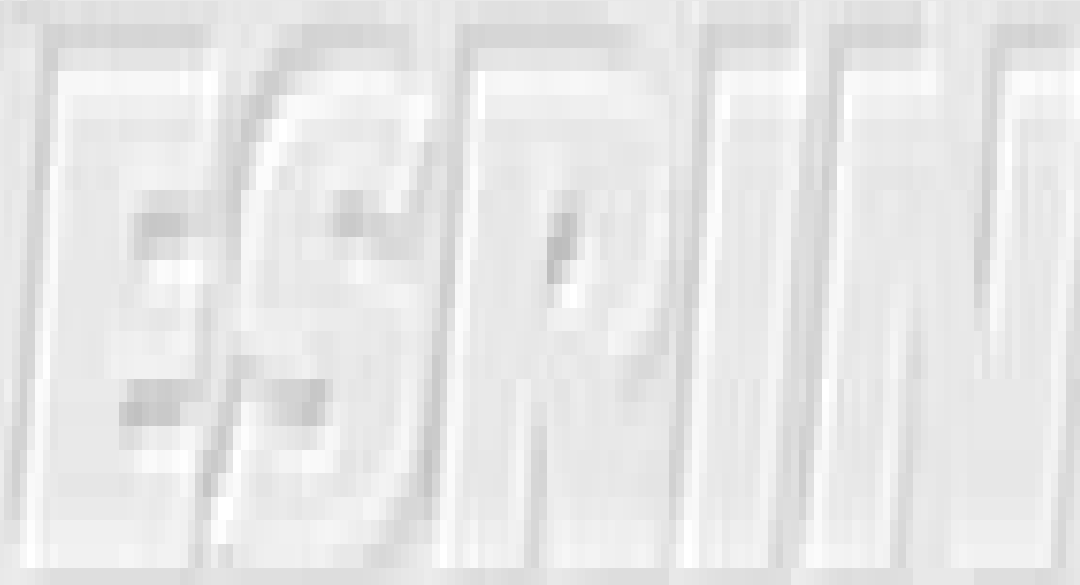
Tangent altitude at which the star is lost



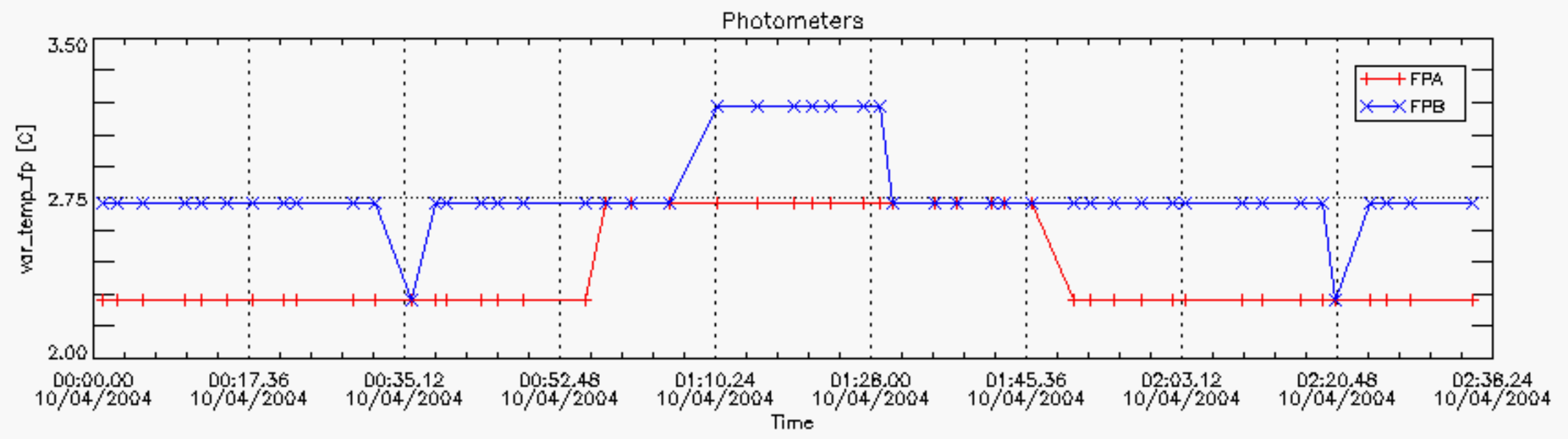
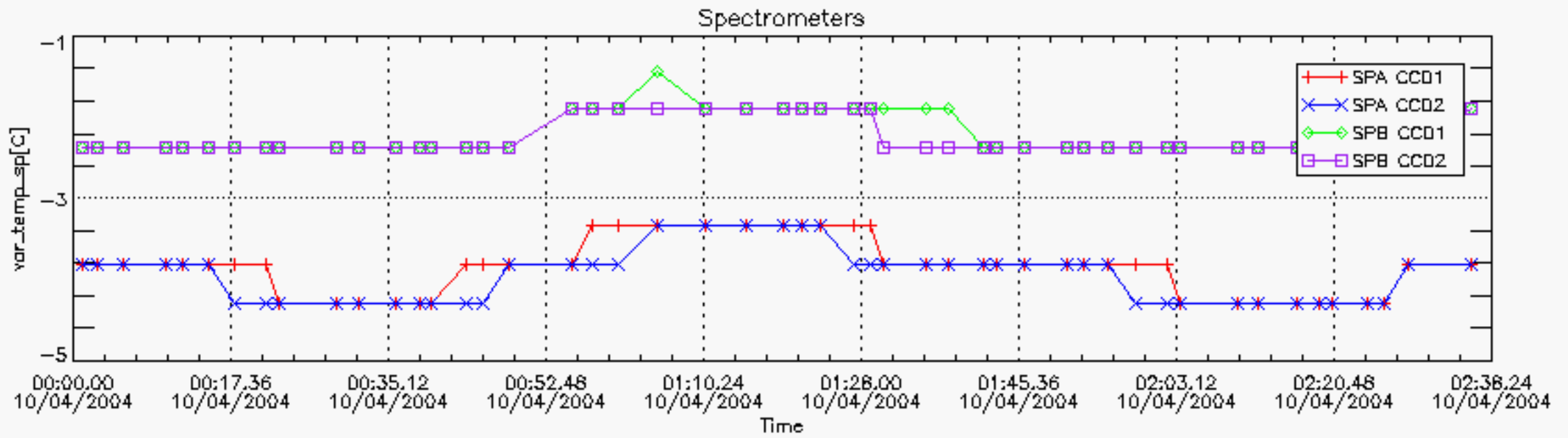
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

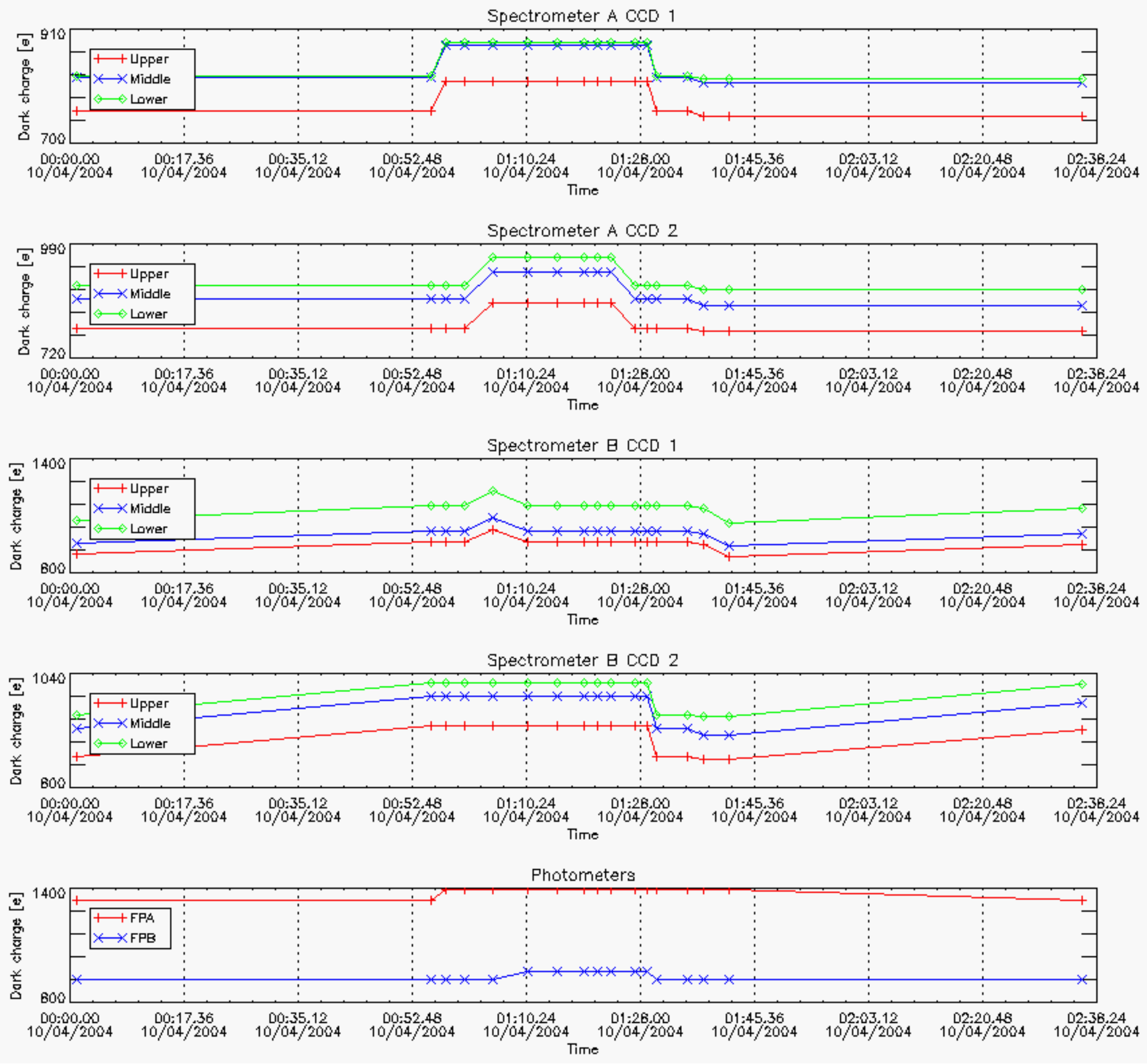
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

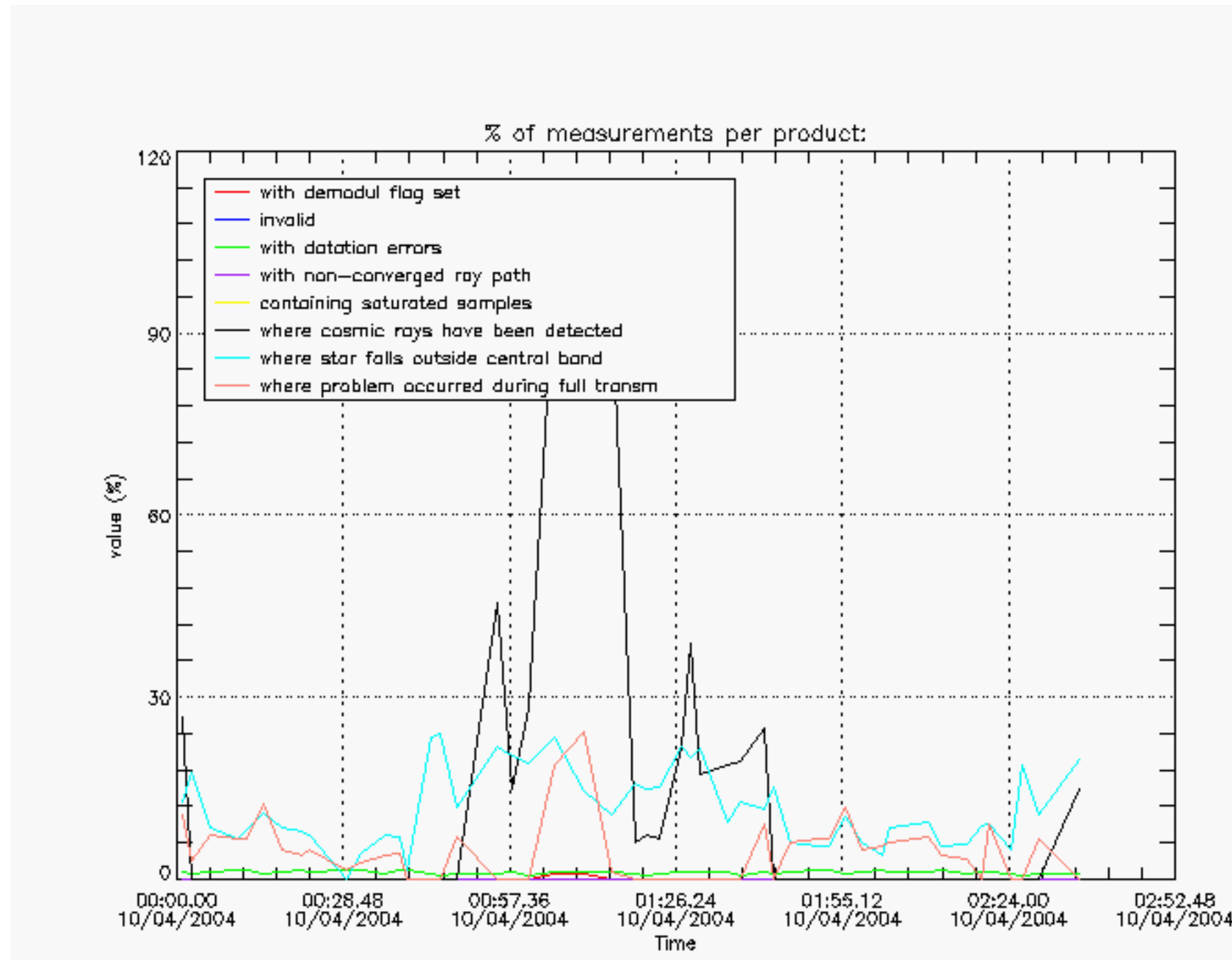
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.5	1447.3	1461.9	1448.1
St. deviation:	5.7947	8.0976	7.2727	9.5282
Maximum:	1729.0	1763.0	1512.0	1508.0
Minimum:	1447.0	1426.0	1439.0	1432.0
Number of data:	22850.	22850.	38750.	38750.



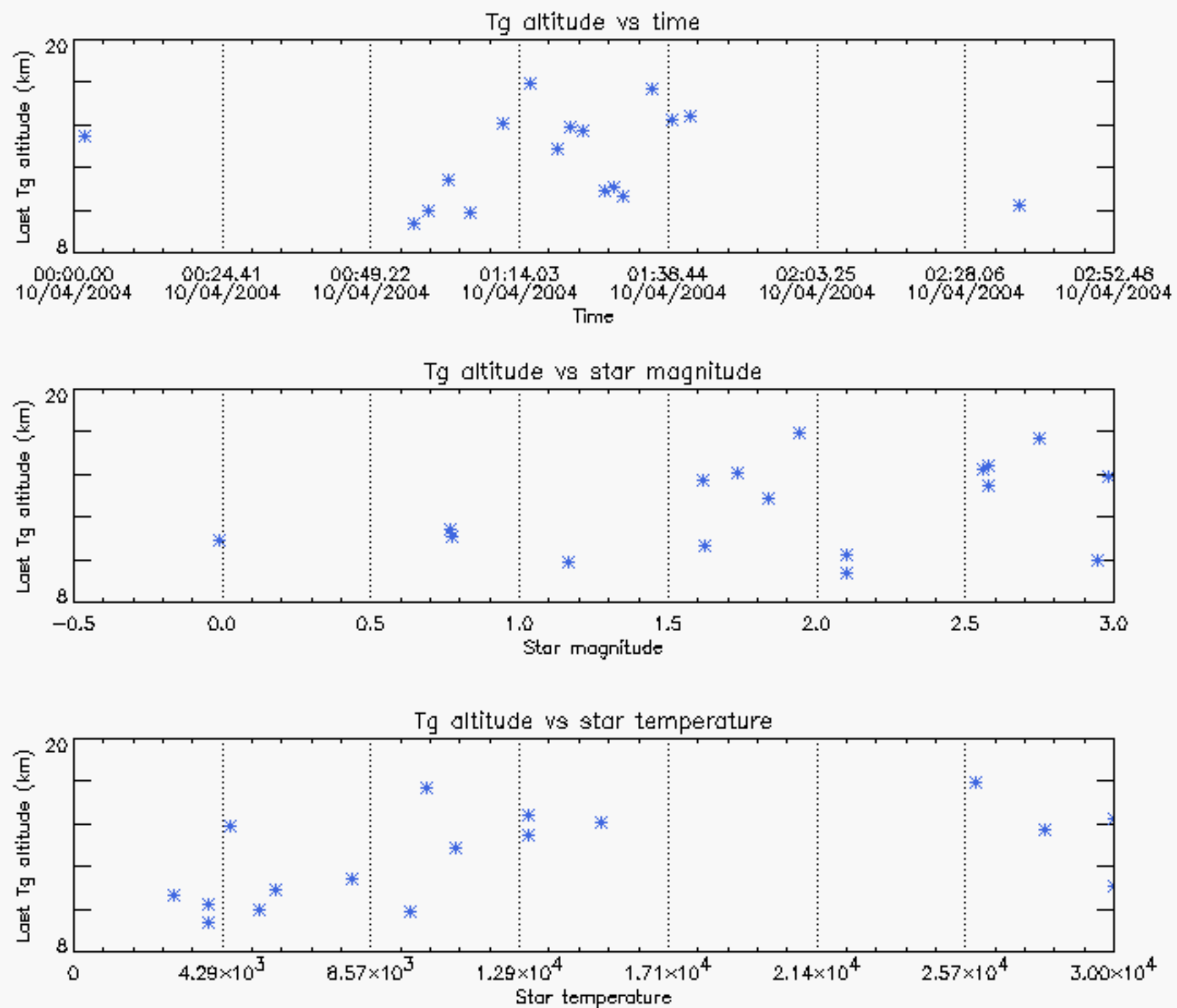




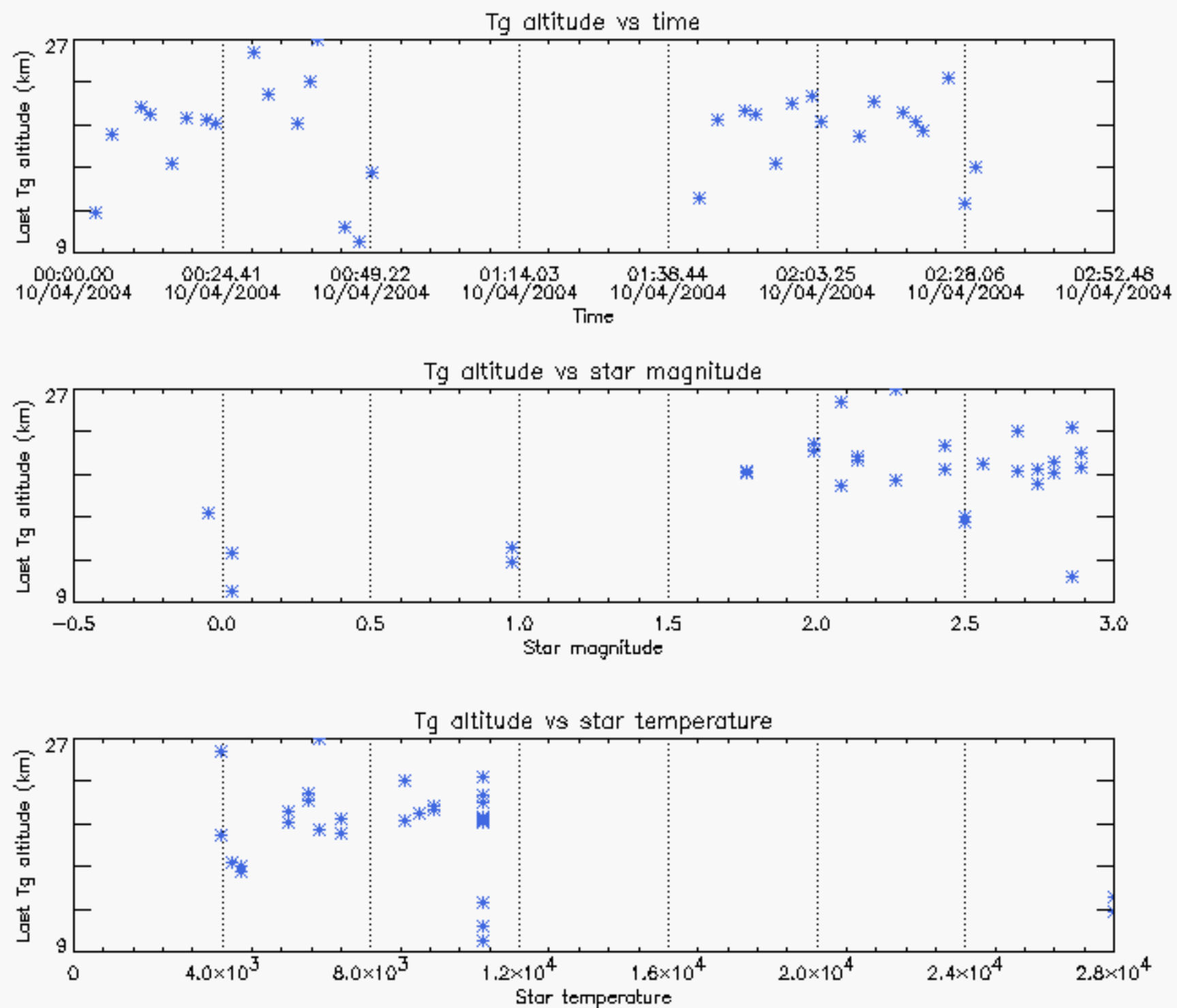




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL__0PNPDE20040401_012141_000060872025_00332_10907_0118.N1

1;	-4605.9;	01-APR-2004	01:21:41;	Dark	;	50.5;	169;	46Gam	Hya	;	2.99;	4700;	occ;	101;	0;	10907
2;	-4448.9;	01-APR-2004	01:24:18;	Dark	;	48.0;	163;	7Del	Crv	;	2.94;	11000;	occ;	96;	0;	10907
3;	-4349.5;	01-APR-2004	01:25:57;	Dark	;	63.5;	15;	67Alp	Vir	;	0.98;	28000;	occ;	127;	0;	10907
4;	-4154.5;	01-APR-2004	01:29:12;	Bright	;	45.5;	121;	29Gam	Vir	;	2.74;	7200;	occ;	91;	0;	10907
5;	-3877.5;	01-APR-2004	01:33:49;	Bright	;	40.5;	62;	94Bet	Leo	;	2.14;	9700;	occ;	81;	0;	10907
6;	-3781.2;	01-APR-2004	01:35:26;	Bright	;	38.5;	96;	68Del	Leo	;	2.56;	9300;	occ;	77;	0;	10907
7;	-3678.3;	01-APR-2004	01:37:09;	Bright	;	38.0;	166;	17Eps	Leo	;	2.98;	6000;	occ;	76;	0;	10907
8;	-3559.4;	01-APR-2004	01:39:08;	Bright	;	67.5;	111;	8Eta	Boo	;	2.68;	6000;	occ;	135;	0;	10907
9;	-3371.6;	01-APR-2004	01:42:15;	Bright	;	37.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	74;	0;	10907
10;	-3190.2;	01-APR-2004	01:45:17;	Bright	;	37.5;	87;	64Gam	UMa	;	2.43;	11000;	occ;	75;	0;	10907
11;	-3080.2;	01-APR-2004	01:47:07;	Bright	;	36.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	72;	0;	10907
12;	-2704.1;	01-APR-2004	01:53:23;	Bright	;	45.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	90;	0;	10907
13;	-2598.5;	01-APR-2004	01:55:08;	Bright	;	36.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	73;	0;	10907
14;	-2198.5;	01-APR-2004	02:01:48;	Bright	;	36.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	73;	0;	10907
15;	-2119.4;	01-APR-2004	02:03:08;	Bright	;	39.5;	68;	18Alp	Cas	;	2.22;	4500;	occ;	79;	0;	10907
16;	-1838.4;	01-APR-2004	02:07:49;	Bright	;	46.5;	144;	18Del	Cyg	;	2.86;	11000;	occ;	93;	0;	10907
17;	-1724.3;	01-APR-2004	02:09:43;	Bright	;	45.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	90;	0;	10907
18;	-1602.9;	01-APR-2004	02:11:44;	Bright	;	43.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	87;	0;	10907
19;	-1211.6;	01-APR-2004	02:18:15;	Dark	;	49.5;	61;	8Eps	Peg	;	2.10;	3900;	occ;	99;	0;	10907
20;	-992.6;	01-APR-2004	02:21:54;	Dark	;	72.0;	11;	53Alp	Aql	;	0.76;	8000;	occ;	144;	0;	10907
21;	-779.1;	01-APR-2004	02:25:28;	Dark	;	43.0;	142;	49Del	Cap	;	2.85;	8900;	occ;	86;	0;	10907
22;	-443.0;	01-APR-2004	02:31:04;	Dark	;	38.5;	172;	Gam	Gru	;	3.00;	13100;	occ;	77;	0;	10907
23;	-308.6;	01-APR-2004	02:33:18;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	10907
24;	-46.9;	01-APR-2004	02:37:40;	Dark	;	41.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	83;	0;	10907
25;	69.2;	01-APR-2004	02:39:36;	Dark	;	63.5;	116;	19Del	Sgr	;	2.70;	4100;	occ;	127;	0;	10908
26;	300.8;	01-APR-2004	02:43:28;	Dark	;	58.0;	40;	The	Sco	;	1.86;	7100;	occ;	116;	0;	10908
27;	404.0;	01-APR-2004	02:45:11;	Dark	;	47.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	94;	0;	10908
28;	518.1;	01-APR-2004	02:47:05;	Dark	;	41.5;	134;	Bet	TrA	;	2.81;	6600;	occ;	83;	0;	10908
29;	675.2;	01-APR-2004	02:49:42;	Dark	;	54.5;	4;	Alp1Cen		;	-0.01;	5800;	occ;	109;	0;	10908
30;	842.8;	01-APR-2004	02:52:30;	Dark	;	121.0;	16;	21Alp	Sco	;	1.02;	3000;	occ;	242;	0;	10908
31;	1101.7;	01-APR-2004	02:56:49;	Dark	;	53.5;	54;	5The	Cen	;	2.06;	4500;	occ;	107;	0;	10908
32;	1430.1;	01-APR-2004	03:02:17;	Dark	;	52.0;	169;	46Gam	Hya	;	2.99;	4700;	occ;	104;	0;	10908

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1;	-4350.3;	01-APR-2004	11:29:32;	Dark	;	59.0;	15;	67Alp	Vir	;	0.98;	28000;	occ;	118;	0;	10913
2;	-4155.5;	01-APR-2004	11:32:47;	Bright	;	45.5;	121;	29Gam	Vir	;	2.74;	7200;	occ;	91;	0;	10913
3;	-3877.5;	01-APR-2004	11:37:25;	Bright	;	39.0;	62;	94Bet	Leo	;	2.14;	9700;	occ;	78;	0;	10913
4;	-3780.2;	01-APR-2004	11:39:02;	Bright	;	38.0;	96;	68Del	Leo	;	2.56;	9300;	occ;	76;	0;	10913
5;	-3675.9;	01-APR-2004	11:40:47;	Bright	;	38.5;	166;	17Eps	Leo	;	2.98;	6000;	occ;	77;	0;	10913
6;	-3567.0;	01-APR-2004	11:42:35;	Bright	;	67.5;	111;	8Eta	Boo	;	2.68;	6000;	occ;	135;	0;	10913
7;	-3371.8;	01-APR-2004	11:45:51;	Bright	;	37.5;	174;	52Psi	UMa	;	3.00;	4400;	occ;	75;	0;	10913
8;	-3191.5;	01-APR-2004	11:48:51;	Bright	;	38.5;	87;	64Gam	UMa	;	2.43;	11000;	occ;	77;	0;	10913
9;	-3080.1;	01-APR-2004	11:50:42;	Bright	;	39.5;	36;	50Alp	UMa	;	1.80;	6300;	occ;	79;	0;	10913
10;	-2703.5;	01-APR-2004	11:56:59;	Bright	;	42.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	84;	0;	10913
11;	-2597.4;	01-APR-2004	11:58:45;	Bright	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	10913
12;	-2197.2;	01-APR-2004	12:05:25;	Bright	;	36.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	72;	0;	10913
13;	-2117.2;	01-APR-2004	12:06:45;	Bright	;	35.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	70;	0;	10913
14;	-1839.6;	01-APR-2004	12:11:23;	Bright	;	47.5;	144;	18Del	Cyg	;	2.86;	11000;	occ;	95;	0;	10913
15;	-1724.7;	01-APR-2004	12:13:18;	Bright	;	46.5;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	93;	0;	10913
16;	-1602.9;	01-APR-2004	12:15:20;	Bright	;	44.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	89;	0;	10913
17;	-1207.7;	01-APR-2004	12:21:55;	Dark	;	49.5;	61;	8Eps	Peg	;	2.10;	3900;	occ;	99;	0;	10913
18;	-987.3;	01-APR-2004	12:25:35;	Dark	;	65.5;	11;	53Alp	Aql	;	0.76;	8000;	occ;	131;	0;	10913
19;	-777.3;	01-APR-2004	12:29:05;	Dark	;	41.5;	142;	49Del	Cap	;	2.85;	8900;	occ;	83;	0;	10913
20;	-441.2;	01-APR-2004	12:34:41;	Dark	;	39.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	78;	0;	10913
21;	-296.3;	01-APR-2004	12:37:06;	Dark	;	43.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	87;	0;	10913
22;	-166.1;	01-APR-2004	12:39:16;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	10913
23;	-42.3;	01-APR-2004	12:41:20;	Dark	;	45.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	90;	0;	10913
24;	77.2;	01-APR-2004	12:43:20;	Dark	;	61.5;	116;	19Del	Sgr	;	2.70;	4100;	occ;	123;	0;	10914
25;	288.8;	01-APR-2004	12:46:51;	Dark	;	56.0;	85;	Kap	Sco	;	2.41;	28000;	occ;	112;	0;	10914
26;	409.6;	01-APR-2004	12:48:52;	Dark	;	39.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	78;	0;	10914
27;	521.5;	01-APR-2004	12:50:44;	Dark	;	40.0;	134;	Bet	TrA	;	2.81;	6600;	occ;	80;	0;	10914
28;	679.2;	01-APR-2004	12:53:22;	Dark	;	55.0;	4;	Alp1Cen		;	-0.01;	5800;	occ;	110;	0;	10914
29;	813.2;	01-APR-2004	12:55:36;	Dark	;	46.0;	12;	Alp1Cru		;	0.77;	30000;	occ;	92;	0;	10914
30;	899.4;	01-APR-2004	12:57:02;	Dark	;	46.0;	26;	Gam	Cru	;	1.62;	2900;	occ;	92;	0;	10914
31;	1017.2;	01-APR-2004	12:59:00;	Dark	;	42.0;	64;	Gam	Cen	;	2.20;	10600;	occ;	84;	0;	10914
32;	1104.9;	01-APR-2004	13:00:27;	Dark	;	56.0;	54;	5The	Cen	;	2.06;	4500;	occ;	112;	0;	10914
33;	1255.2;	01-APR-2004	13:02:58;	Dark	;	149.5;	97;	8Bet1Sco		;	2.56;	30000;	occ;	299;	0;	10914
34;	1578.4;	01-APR-2004	13:08:21;	Dark	;	14.0;	100;	4Gam	Crv	;	2.58;	13100;	occ;	28;	0;	10914

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2;	-4350.3;	01-APR-2004	13:10:08;	Dark	;	68.0;	15;	67Alp Vir	;	0.98;	28000;occ;	136;	0;	10914
3;	-4155.5;	01-APR-2004	13:13:23;	Bright;		45.5;	121;	29Gam Vir	;	2.74;	7200;occ;	91;	0;	10914
4;	-3877.4;	01-APR-2004	13:18:01;	Bright;		39.5;	62;	94Bet Leo	;	2.14;	9700;occ;	79;	0;	10914
5;	-3780.3;	01-APR-2004	13:19:38;	Bright;		38.0;	96;	68Del Leo	;	2.56;	9300;occ;	76;	0;	10914
6;	-3675.7;	01-APR-2004	13:21:23;	Bright;		39.0;	166;	17Eps Leo	;	2.98;	6000;occ;	78;	0;	10914
7;	-3568.6;	01-APR-2004	13:23:10;	Bright;		63.5;	111;	8Eta Boo	;	2.68;	6000;occ;	127;	0;	10914
8;	-3371.9;	01-APR-2004	13:26:26;	Bright;		38.5;	174;	52Psi UMa	;	3.00;	4400;occ;	77;	0;	10914
9;	-3191.9;	01-APR-2004	13:29:26;	Bright;		40.0;	87;	64Gam UMa	;	2.43;	11000;occ;	80;	0;	10914
10;	-3080.2;	01-APR-2004	13:31:18;	Bright;		39.0;	36;	50Alp UMa	;	1.80;	6300;occ;	78;	0;	10914
11;	-2704.1;	01-APR-2004	13:37:34;	Bright;		41.5;	60;	7Bet UMi	;	2.08;	3950;occ;	83;	0;	10914
12;	-2597.1;	01-APR-2004	13:39:21;	Bright;		37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	10914
13;	-2196.8;	01-APR-2004	13:46:02;	Bright;		35.0;	76;	27Gam Cas	;	2.30;	30000;occ;	70;	0;	10914
14;	-2116.5;	01-APR-2004	13:47:22;	Bright;		35.0;	68;	18Alp Cas	;	2.22;	4500;occ;	70;	0;	10914
15;	-1840.0;	01-APR-2004	13:51:58;	Bright;		47.5;	144;	18Del Cyg	;	2.86;	11000;occ;	95;	0;	10914
16;	-1724.5;	01-APR-2004	13:53:54;	Bright;		46.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	92;	0;	10914
17;	-1602.8;	01-APR-2004	13:55:56;	Bright;		47.0;	92;	53Eps Cyg	;	2.50;	4500;occ;	94;	0;	10914
18;	-1207.2;	01-APR-2004	14:02:31;	Dark	;	48.5;	61;	8Eps Peg	;	2.10;	3900;occ;	97;	0;	10914
19;	-986.9;	01-APR-2004	14:06:11;	Dark	;	63.0;	11;	53Alp Aql	;	0.76;	8000;occ;	126;	0;	10914
20;	-776.5;	01-APR-2004	14:09:42;	Dark	;	43.5;	142;	49Del Cap	;	2.85;	8900;occ;	87;	0;	10914
21;	-440.8;	01-APR-2004	14:15:18;	Dark	;	40.0;	172;	Gam Gru	;	3.00;	13100;occ;	80;	0;	10914
22;	-296.1;	01-APR-2004	14:17:42;	Dark	;	42.0;	31;	Alp Gru	;	1.73;	15200;occ;	84;	0;	10914
23;	-165.8;	01-APR-2004	14:19:53;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	10914
24;	-41.7;	01-APR-2004	14:21:57;	Dark	;	39.5;	45;	Alp Pav	;	1.94;	26000;occ;	79;	0;	10914
25;	78.9;	01-APR-2004	14:23:57;	Dark	;	67.5;	116;	19Del Sgr	;	2.70;	4100;occ;	135;	0;	10915
26;	290.1;	01-APR-2004	14:27:28;	Dark	;	53.5;	85;	Kap Sco	;	2.41;	28000;occ;	107;	0;	10915
27;	410.0;	01-APR-2004	14:29:28;	Dark	;	41.0;	43;	Alp TrA	;	1.91;	4250;occ;	82;	0;	10915
28;	522.1;	01-APR-2004	14:31:20;	Dark	;	40.0;	134;	Bet TrA	;	2.81;	6600;occ;	80;	0;	10915
29;	679.0;	01-APR-2004	14:33:57;	Dark	;	49.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	99;	0;	10915
30;	813.4;	01-APR-2004	14:36:12;	Dark	;	39.0;	12;	Alp1Cru	;	0.77;	30000;occ;	78;	0;	10915
31;	899.7;	01-APR-2004	14:37:38;	Dark	;	46.0;	26;	Gam Cru	;	1.62;	2900;occ;	92;	0;	10915
32;	1017.6;	01-APR-2004	14:39:36;	Dark	;	44.5;	64;	Gam Cen	;	2.20;	10600;occ;	89;	0;	10915
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2;	-4350.2;	01-APR-2004	03:06:33;	Dark	;	66.5;	15;	67Alp Vir	;	0.98;	28000;occ;	133;	0;	10908
3;	-4155.4;	01-APR-2004	03:09:48;	Bright;		45.5;	121;	29Gam Vir	;	2.74;	7200;occ;	91;	0;	10908
4;	-3877.7;	01-APR-2004	03:14:25;	Bright;		40.5;	62;	94Bet Leo	;	2.14;	9700;occ;	81;	0;	10908
5;	-3781.3;	01-APR-2004	03:16:02;	Bright;		39.0;	96;	68Del Leo	;	2.56;	9300;occ;	78;	0;	10908
6;	-3677.6;	01-APR-2004	03:17:45;	Bright;		37.5;	166;	17Eps Leo	;	2.98;	6000;occ;	75;	0;	10908
7;	-3561.1;	01-APR-2004	03:19:42;	Bright;		67.5;	111;	8Eta Boo	;	2.68;	6000;occ;	135;	0;	10908
8;	-3371.1;	01-APR-2004	03:22:52;	Bright;		37.0;	174;	52Psi UMa	;	3.00;	4400;occ;	74;	0;	10908
9;	-3190.5;	01-APR-2004	03:25:52;	Bright;		39.5;	87;	64Gam UMa	;	2.43;	11000;occ;	79;	0;	10908
10;	-3081.0;	01-APR-2004	03:27:42;	Bright;		37.5;	36;	50Alp UMa	;	1.80;	6300;occ;	75;	0;	10908
11;	-2702.2;	01-APR-2004	03:34:01;	Bright;		41.5;	60;	7Bet UMi	;	2.08;	3950;occ;	83;	0;	10908
12;	-2597.8;	01-APR-2004	03:35:45;	Bright;		38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	10908
13;	-2198.5;	01-APR-2004	03:42:24;	Bright;		36.0;	76;	27Gam Cas	;	2.30;	30000;occ;	72;	0;	10908
14;	-2118.5;	01-APR-2004	03:43:44;	Bright;		36.0;	68;	18Alp Cas	;	2.22;	4500;occ;	72;	0;	10908
15;	-1838.8;	01-APR-2004	03:48:24;	Bright;		47.0;	144;	18Del Cyg	;	2.86;	11000;occ;	94;	0;	10908
16;	-1724.7;	01-APR-2004	03:50:18;	Bright;		46.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	92;	0;	10908
17;	-1602.9;	01-APR-2004	03:52:20;	Bright;		41.5;	92;	53Eps Cyg	;	2.50;	4500;occ;	83;	0;	10908
18;	-1209.0;	01-APR-2004	03:58:54;	Dark	;	49.0;	61;	8Eps Peg	;	2.10;	3900;occ;	98;	0;	10908
19;	-991.8;	01-APR-2004	04:02:31;	Dark	;	67.5;	11;	53Alp Aql	;	0.76;	8000;occ;	135;	0;	10908
20;	-779.3;	01-APR-2004	04:06:04;	Dark	;	42.0;	142;	49Del Cap	;	2.85;	8900;occ;	84;	0;	10908
21;	-442.8;	01-APR-2004	04:11:40;	Dark	;	41.0;	172;	Gam Gru	;	3.00;	13100;occ;	82;	0;	10908
22;	-307.8;	01-APR-2004	04:13:55;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	10908
23;	-46.5;	01-APR-2004	04:18:16;	Dark	;	42.5;	45;	Alp Pav	;	1.94;	26000;occ;	85;	0;	10908
24;	70.2;	01-APR-2004	04:20:13;	Dark	;	65.0;	116;	19Del Sgr	;	2.70;	4100;occ;	130;	0;	10909
25;	302.0;	01-APR-2004	04:24:05;	Dark	;	53.5;	40;	The Sco	;	1.86;	7100;occ;	107;	0;	10909
26;	406.8;	01-APR-2004	04:25:50;	Dark	;	45.0;	43;	Alp TrA	;	1.91;	4250;occ;	90;	0;	10909
27;	518.4;	01-APR-2004	04:27:41;	Dark	;	42.0;	134;	Bet TrA	;	2.81;	6600;occ;	84;	0;	10909
28;	676.7;	01-APR-2004	04:30:20;	Dark	;	46.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	93;	0;	10909
29;	844.1;	01-APR-2004	04:33:07;	Dark	;	108.5;	16;	21Alp Sco	;	1.02;	3000;occ;	217;	0;	10909
30;	1102.1;	01-APR-2004	04:37:25;	Dark	;	54.5;	54;	5The Cen	;	2.06;	4500;occ;	109;	0;	10909
31;	1430.3;	01-APR-2004	04:42:53;	Dark	;	50.5;	169;	46Gam Hya	;	2.99;	4700;occ;	101;	0;	10909
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 5;-3780.4; 01-APR-2004 04:56:39; Bright; 37.5; 96; 68Del Leo ; 2.56; 9300;occ; 75; 0;10909
 6;-3677.4; 01-APR-2004 04:58:21; Bright; 38.5; 166; 17Eps Leo ; 2.98; 6000;occ; 77; 0;10909
 7;-3562.4; 01-APR-2004 05:00:16; Bright; 67.5; 111; 8Eta Boo ; 2.68; 6000;occ; 135; 0;10909
 8;-3371.6; 01-APR-2004 05:03:27; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;10909
 9;-3191.1; 01-APR-2004 05:06:28; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;10909
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 13;-2198.4; 01-APR-2004 05:23:01; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;10909
 14;-2118.3; 01-APR-2004 05:24:21; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;10909
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 33; 1103.3; 01-APR-2004 07:58:38; Dark ; 54.0; 54; 5The Cen ; 2.06; 4500;occ; 108; 0;10911
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