

GOMOS Daily Report 14-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	17APR2004 06:07:46
Data source version	GOMOS/4.02
Start time of products	14-APR-2004 (14APR2004 00:00:00)
Stop time of products	15-APR-2004 (15APR2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	1

2. Summary of products arrived in PCF

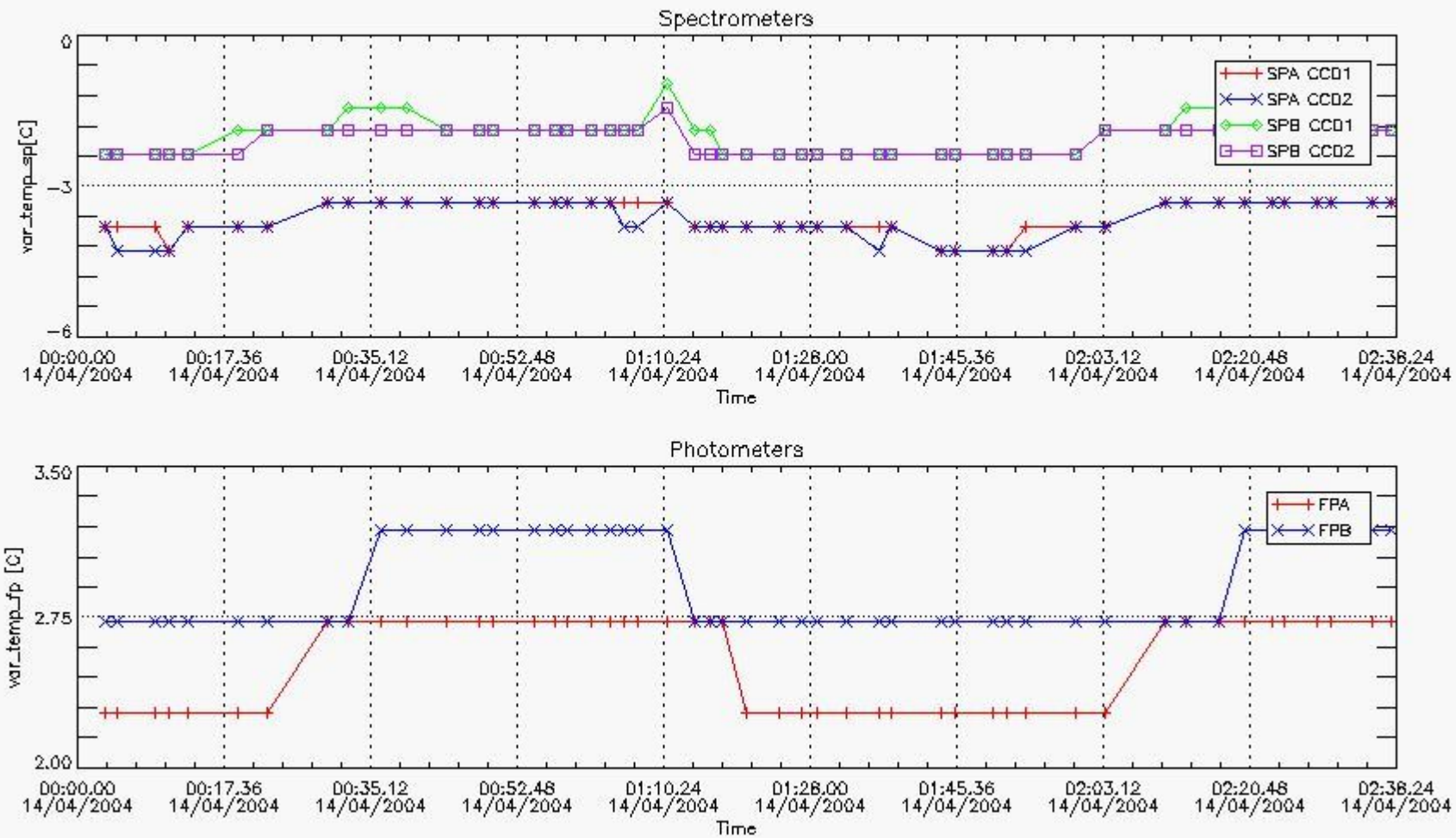
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040414_000312_000000412026_00016_11092_0011.N1	14-APR-2004 00:03:12	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	11092	No
GOM_TRA_1PNPDE20040414_000446_000000492026_00016_11092_0012.N1	14-APR-2004 00:04:46	Bright	49.000	119	14Eta Dra	2.7270	4700.0	98	11092	No
GOM_TRA_1PNPDE20040414_000916_000000632026_00016_11092_0013.N1	14-APR-2004 00:09:16	Bright	62.500	130	23Bet Dra	2.7990	5800.0	125	11092	No
GOM_TRA_1PNPDE20040414_001103_000000632026_00016_11092_0014.N1	14-APR-2004 00:11:03	Bright	63.000	69	33Gam Dra	2.2310	3800.0	126	11092	No
GOM_TRA_1PNPDE20040414_001316_000000402026_00016_11092_0015.N1	14-APR-2004 00:13:16	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	11092	No
GOM_TRA_1PNPDE20040414_001921_000001052026_00016_11092_0016.N1	14-APR-2004 00:19:21	Bright	104.50	5	3Alp Lyr	0.033000	11000.	209	11092	No
GOM_TRA_1PNPDE20040414_002247_000000532026_00016_11092_0017.N1	14-APR-2004 00:22:47	Bright	53.000	92	53Eps Cyg	2.5000	4500.0	106	11092	No
GOM_TRA_1PNPDE20040414_003006_000000542026_00016_11092_0018.N1	14-APR-2004 00:30:06	Dark	53.500	61	8Eps Peg	2.1000	3900.0	107	11092	No
GOM_TRA_1PNPDE20040414_003234_000000472026_00016_11092_0019.N1	14-APR-2004 00:32:34	Dark	46.500	162	34Alp Aqr	2.9440	5350.0	93	11092	No
GOM_TRA_1PNPDE20040414_003625_000001102026_00016_11092_0020.N1	14-APR-2004 00:36:25	Dark	110.00	11	53Alp Aql	0.76500	8000.0	220	11092	No
GOM_TRA_1PNPDE20040414_003932_000000422026_00016_11092_0021.N1	14-APR-2004 00:39:32	Dark	42.000	18	24Alp PsA	1.1660	9700.0	84	11092	No
GOM_TRA_1PNPDE20040414_004422_000000452026_00016_11092_0022.N1	14-APR-2004 00:44:22	Dark	45.000	63	Bet Gru	2.1500	2800.0	90	11092	No
GOM_TRA_1PNPDE20040414_004814_000000392026_00016_11092_0023.N1	14-APR-2004 00:48:14	Dark	38.500	148	Alp Tuc	2.8780	4100.0	77	11092	No
GOM_TRA_1PNPDE20040414_004951_000000412026_00017_11093_0024.N1	14-APR-2004 00:49:51	Dark	41.000	45	Alp Pav	1.9400	26000.	82	11093	No
GOM_TRA_1PNPDE20040414_005450_000000652026_00017_11093_0026.N1	14-APR-2004 00:54:50	Dark	64.500	38	20Eps Sgr	1.8360	11000.	129	11093	No
GOM_TRA_1PNPDE20040414_005715_000000422026_00017_11093_0027.N1	14-APR-2004 00:57:15	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	11093	No
GOM_TRA_1PNPDE20040414_005849_000000682026_00017_11093_0028.N1	14-APR-2004 00:58:49	Dark	67.500	25	35Lam Sco	1.6200	28000.	135	11093	No
GOM_TRA_1PNPDE20040414_010145_000000472026_00017_11093_0029.N1	14-APR-2004 01:01:45	Dark	47.000	4	Alp1Cen	-0.010000	5800.0	94	11093	No
GOM_TRA_1PNPDE20040414_010359_000000422026_00017_11093_0030.N1	14-APR-2004 01:03:59	Dark	42.000	20	Bet Cru	1.2530	30000.	84	11093	No
GOM_TRA_1PNPDE20040414_010532_000000472026_00017_11093_0031.N1	14-APR-2004 01:05:32	Dark	47.000	109	Bet Lup	2.6770	26000.	94	11093	No
GOM_TRA_1PNPDE20040414_010723_000000962026_00017_11093_0032.N1	14-APR-2004 01:07:23	Dark	96.000	16	21Alp Sco	1.0200	3000.0	192	11093	No
GOM_TRA_1PNPDE20040414_011050_000000872026_00017_11093_0000.N1	14-APR-2004 01:10:50	Dark	87.000	80	7Del Sco	2.3160	30000.	174	11093	Yes
GOM_TRA_1PNPDE20040414_011405_000000442026_00017_11093_0001.N1	14-APR-2004 01:14:05	Dark	44.000	106	9Bet Crv	2.6480	5600.0	88	11093	No
GOM_TRA_1PNPDE20040414_011555_000000412026_00017_11093_0002.N1	14-APR-2004 01:15:55	Dark	40.500	100	4Gam Crv	2.5800	13100.	81	11093	No
GOM_TRA_1PNPDE20040414_011721_000000592026_00017_11093_0003.N1	14-APR-2004 01:17:21	Bright	59.000	15	67Alp Vir	0.97600	28000.	118	11093	No
GOM_TRA_1PNPDE20040414_012024_000000402026_00017_11093_0004.N1	14-APR-2004 01:20:24	Bright	40.000	121	29Gam Vir	2.7400	7200.0	80	11093	No
GOM_TRA_1PNPDE20040414_012415_000000412026_00017_11093_0005.N1	14-APR-2004 01:24:15	Bright	41.000	138	47Eps Vir	2.8280	4700.0	82	11093	No
GOM_TRA_1PNPDE20040414_012703_000000372026_00017_11093_0006.N1	14-APR-2004 01:27:03	Bright	37.000	96	68Del Leo	2.5600	9300.0	74	11093	No
GOM_TRA_1PNPDE20040414_012851_000000572026_00017_11093_0007.N1	14-APR-2004 01:28:51	Bright	57.000	3	16Alp Boo	-0.050000	4250.0	114	11093	No
GOM_TRA_1PNPDE20040414_013224_000000402026_00017_11093_0008.N1	14-APR-2004 01:32:24	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	11093	No
GOM_TRA_1PNPDE20040414_013611_000000372026_00017_11093_0009.N1	14-APR-2004 01:36:11	Bright	37.000	87	64Gam UMa	2.4330	11000.	74	11093	No
GOM_TRA_1PNPDE20040414_013740_000000392026_00017_11093_0010.N1	14-APR-2004 01:37:40	Bright	39.000	55	79Zet UMa	2.0600	10200.	78	11093	No
GOM_TRA_1PNPDE20040414_014348_000000402026_00017_11093_0011.N1	14-APR-2004 01:43:48	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	11093	No
GOM_TRA_1PNPDE20040414_014522_000000472026_00017_11093_0012.N1	14-APR-2004 01:45:22	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	11093	No
GOM_TRA_1PNPDE20040414_014951_000000622026_00017_11093_0013.N1	14-APR-2004 01:49:51	Bright	61.500	130	23Bet Dra	2.7990	5800.0	123	11093	No
GOM_TRA_1PNPDE20040414_015138_000000642026_00017_11093_0014.N1	14-APR-2004 01:51:38	Bright	64.000	69	33Gam Dra	2.2310	3800.0	128	11093	No
GOM_TRA_1PNPDE20040414_015352_000000402026_00017_11093_0015.N1	14-APR-2004 01:53:52	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	11093	No
GOM_TRA_1PNPDE20040414_015956_000001112026_00017_11093_0016.N1	14-APR-2004 01:59:56	Bright	110.50	5	3Alp Lyr	0.033000	11000.	221	11093	No
GOM_TRA_1PNPDE20040414_020323_000000602026_00017_11093_0017.N1	14-APR-2004 02:03:23	Bright	60.000	92	53Eps Cyg	2.5000	4500.0	120	11093	No
GOM_TRA_1PNPDE20040414_021042_000000532026_00017_11093_0018.N1	14-APR-2004 02:10:42	Dark	53.000	61	8Eps Peg	2.1000	3900.0	106	11093	No
GOM_TRA_1PNPDE20040414_021310_000000472026_00017_11093_0019.N1	14-APR-2004 02:13:10	Dark	47.000	162	34Alp Aqr	2.9440	5350.0	94	11093	No
GOM_TRA_1PNPDE20040414_021703_000001062026_00017_11093_0020.N1	14-APR-2004 02:17:03	Dark	105.50	11	53Alp Aql	0.76500	8000.0	211	11093	No
GOM_TRA_1PNPDE20040414_022008_000000462026_00017_11093_0021.N1	14-APR-2004 02:20:08	Dark	46.000	18	24Alp PsA	1.1660	9700.0	92	11093	No
GOM_TRA_1PNPDE20040414_022328_000000392026_00017_11093_0022.N1	14-APR-2004 02:23:28	Dark	39.000	172	Gam Gru	3.0030	13100.	78	11093	No
GOM_TRA_1PNPDE20040414_022459_000000462026_00017_11093_0023.N1	14-APR-2004 02:24:59	Dark	46.000	63	Bet Gru	2.1500	2800.0	92	11093	No
GOM_TRA_1PNPDE20040414_022849_000000502026_00017_11093_0024.N1	14-APR-2004 02:28:49	Dark	49.500	148	Alp Tuc	2.8780	4100.0	99	11093	No
GOM_TRA_1PNPDE20040414_023028_000000432026_00018_11094_0025.N1	14-APR-2004 02:30:28	Dark	43.000	45	Alp Pav	1.9400	26000.	86	11094	No
GOM_TRA_1PNPDE20040414_023527_000000692026_00018_11094_0027.N1	14-APR-2004 02:35:27	Dark	68.500	38	20Eps Sgr	1.8360	11000.	137	11094	No
GOM_TRA_1PNPDE20040414_023752_000000432026_00018_11094_0028.N1	14-APR-2004 02:37:52	Dark	42.500	43	Alp TrA	1.9100	4250.0	85	11094	No

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



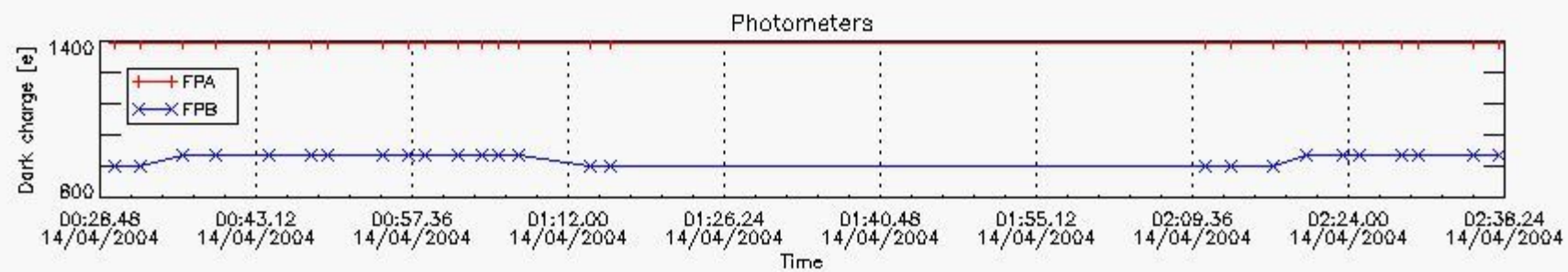
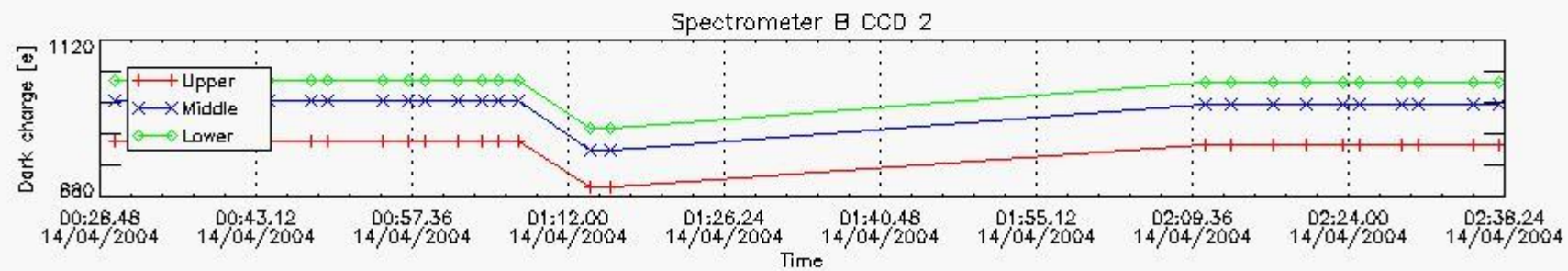
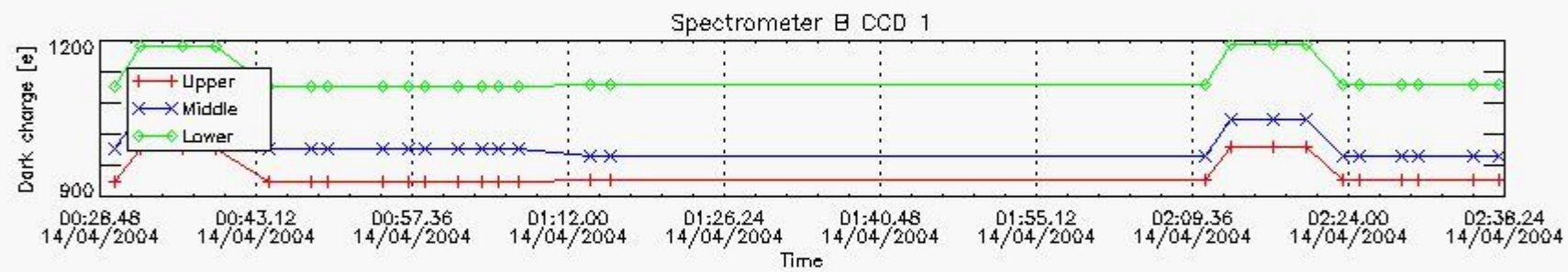
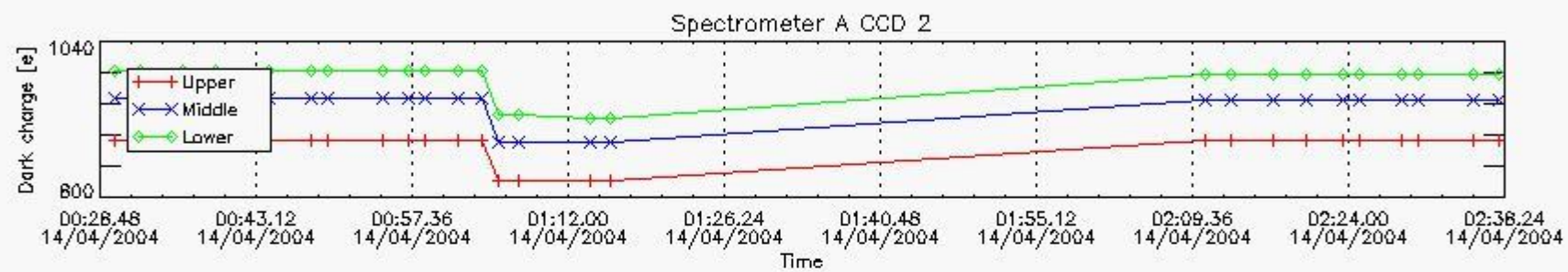
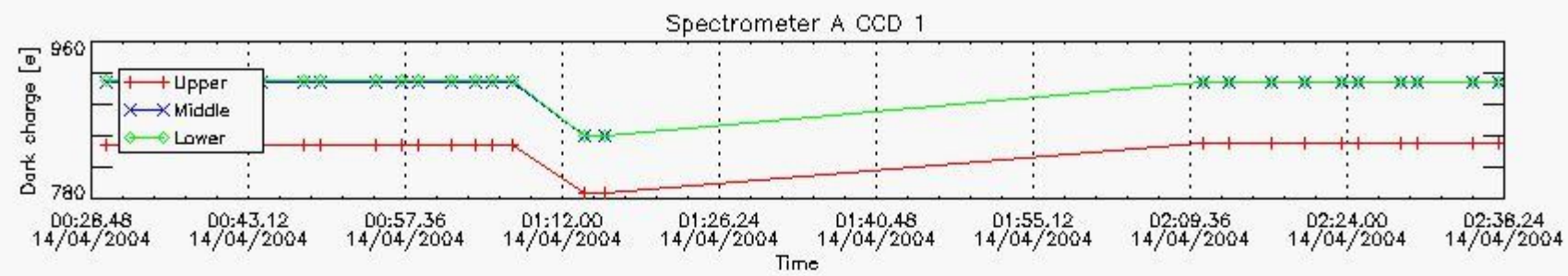
4. Overview of dark signal processing per product

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

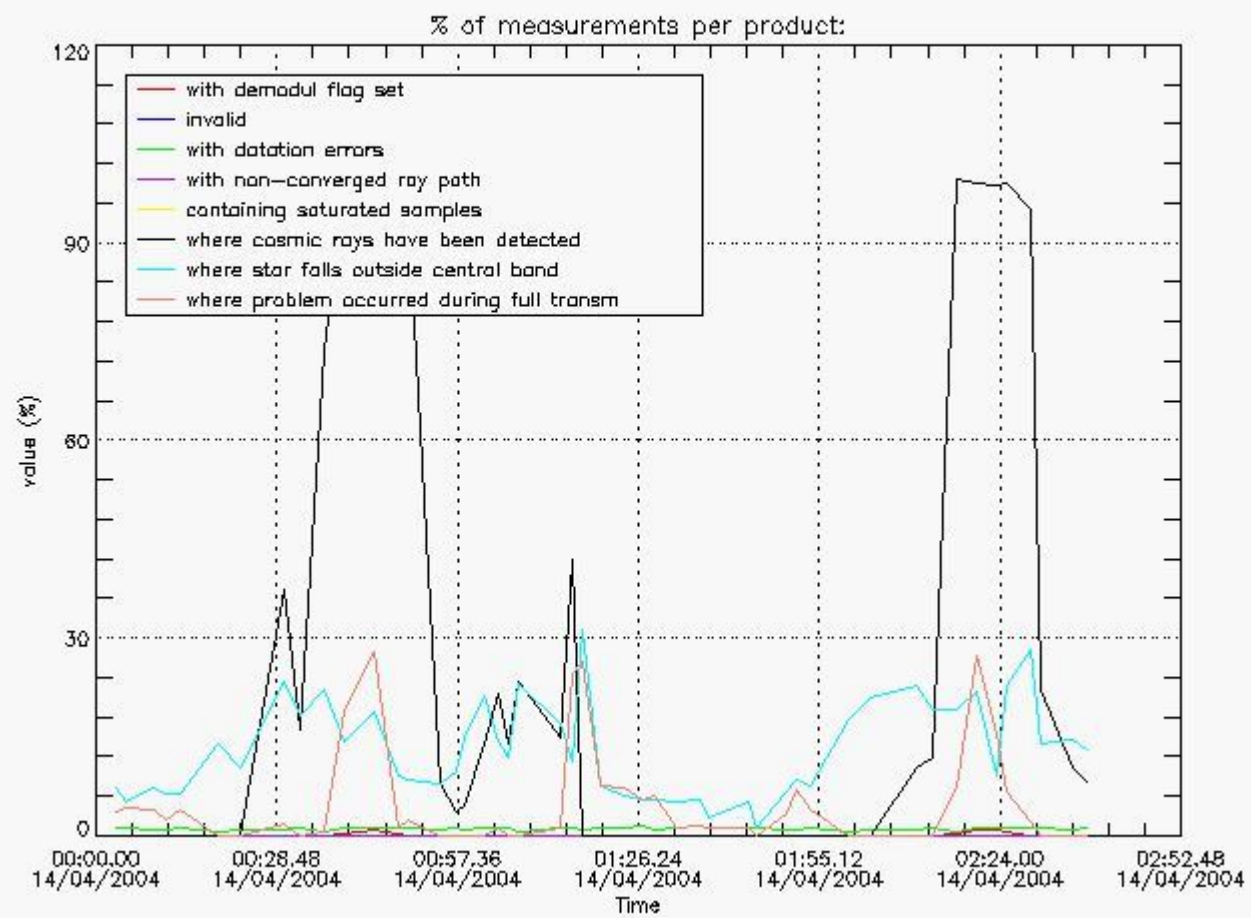


5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	27.0833 %
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



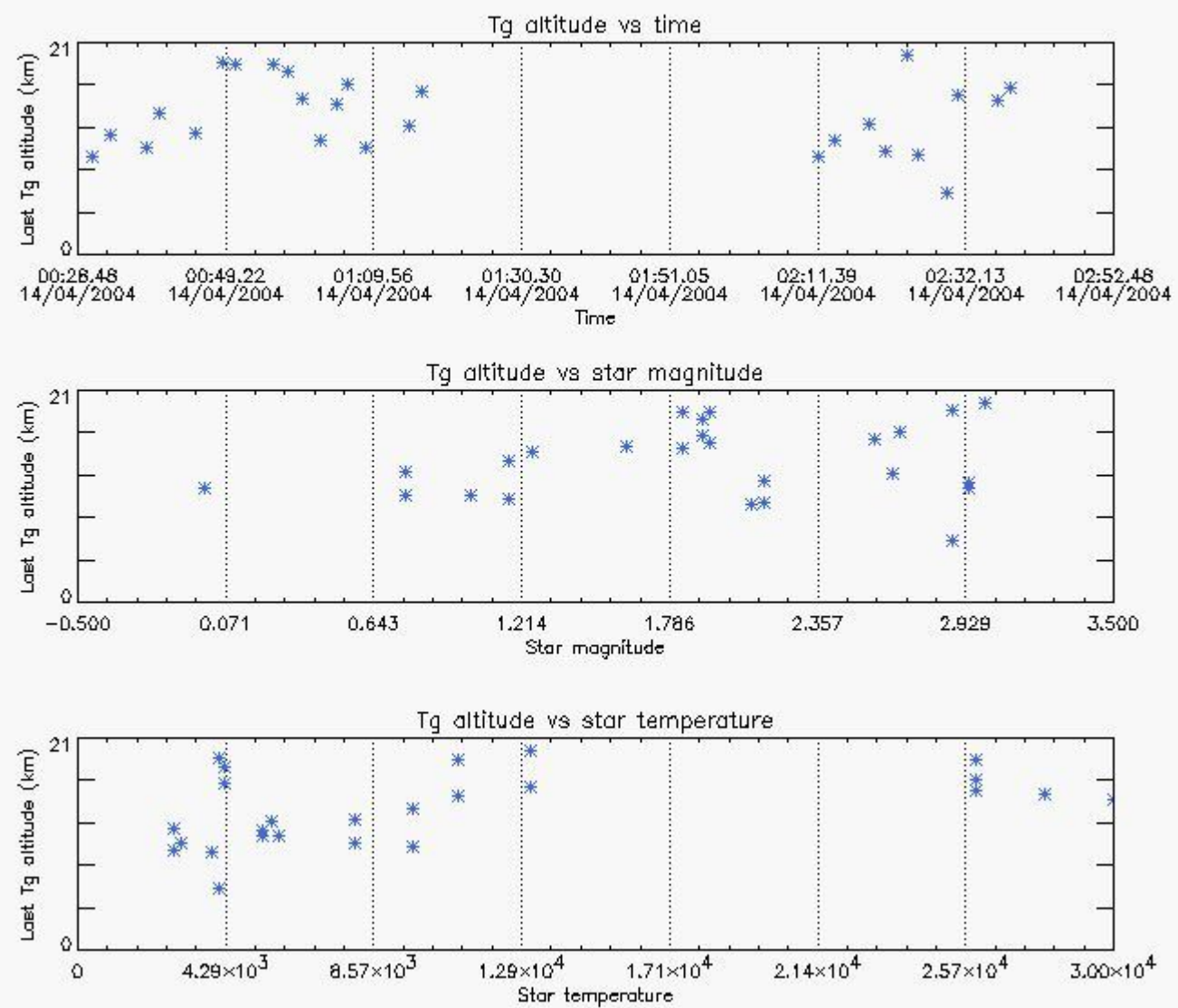
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.794	19.275
St. deviation:	3.6239	4.5504
Maximum:	19.758	24.141
Minimum:	6.1299	5.5450
Number of data:	26.000	22.000

6.2 Plot for DARK limb products

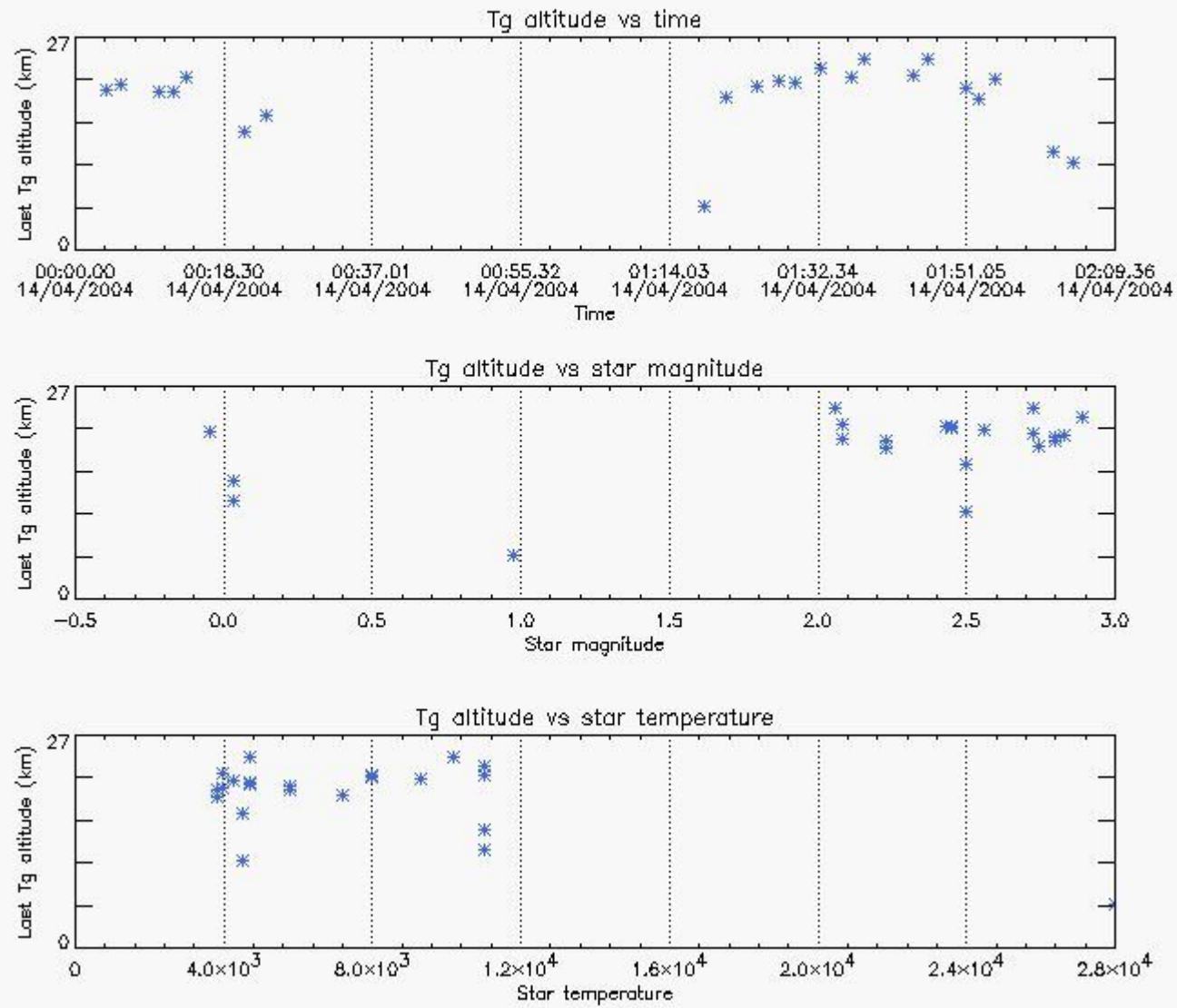
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



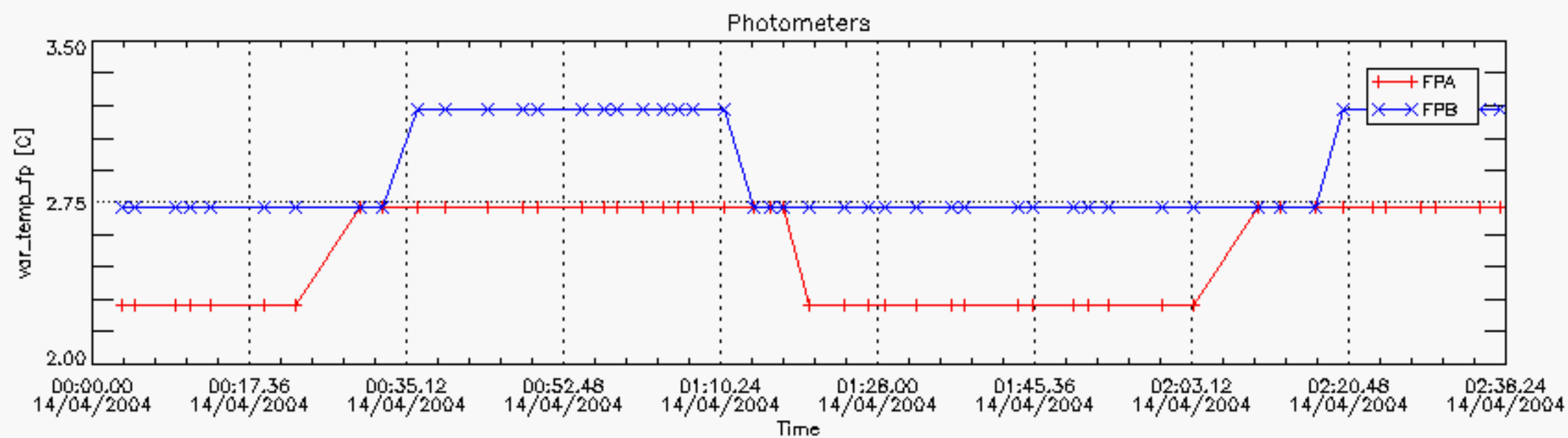
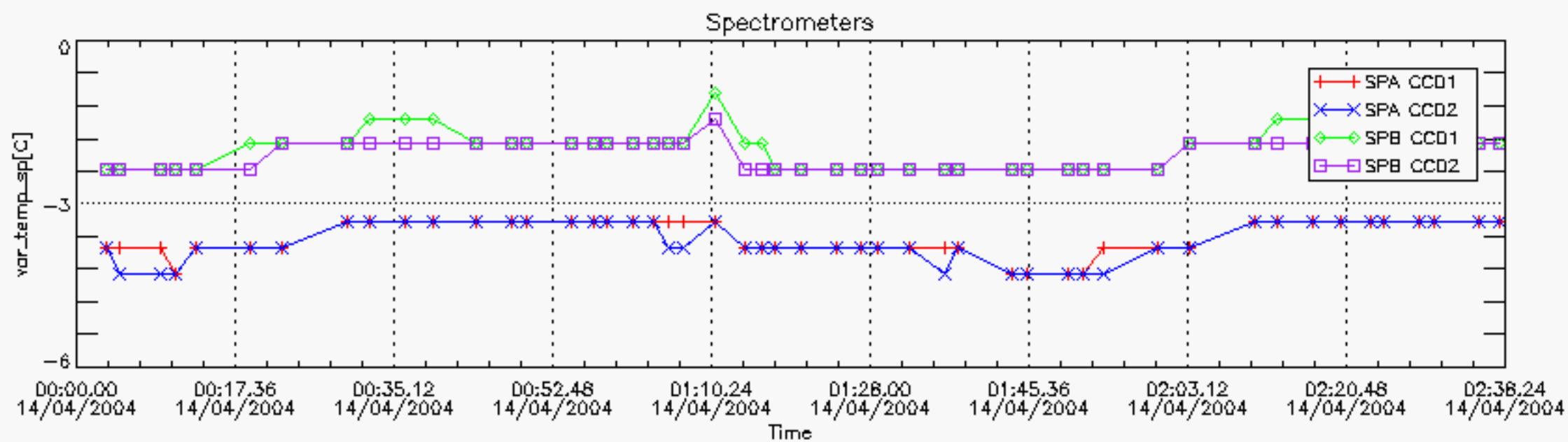
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

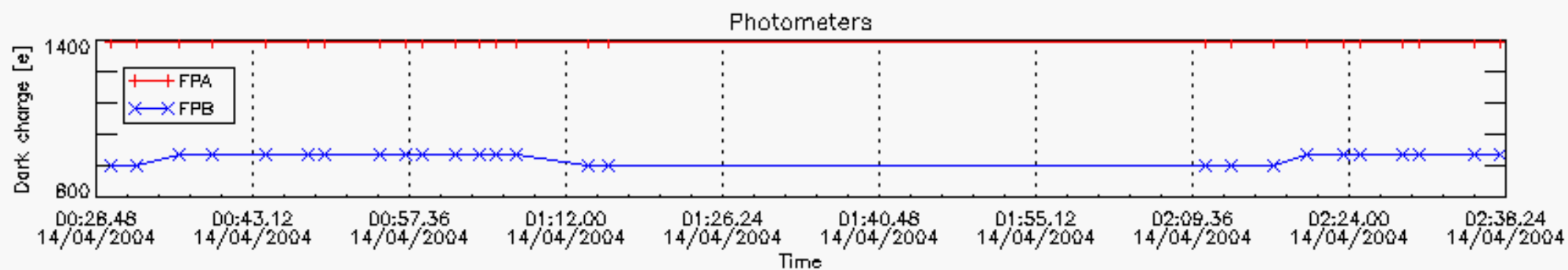
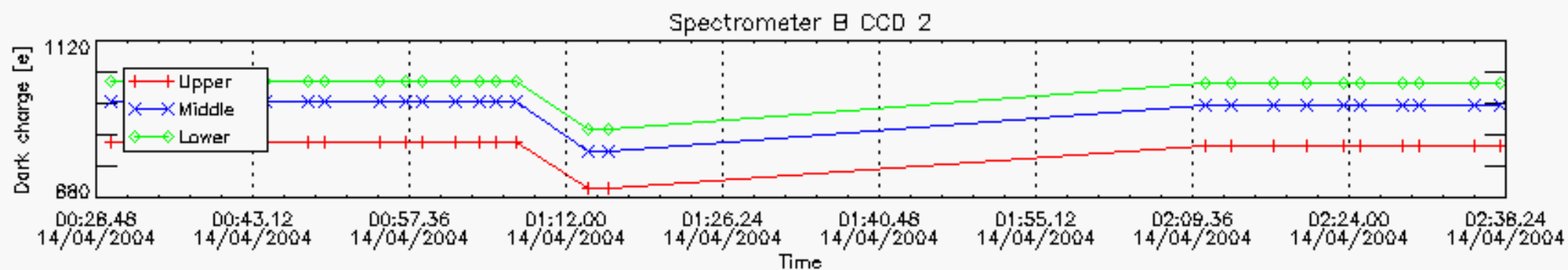
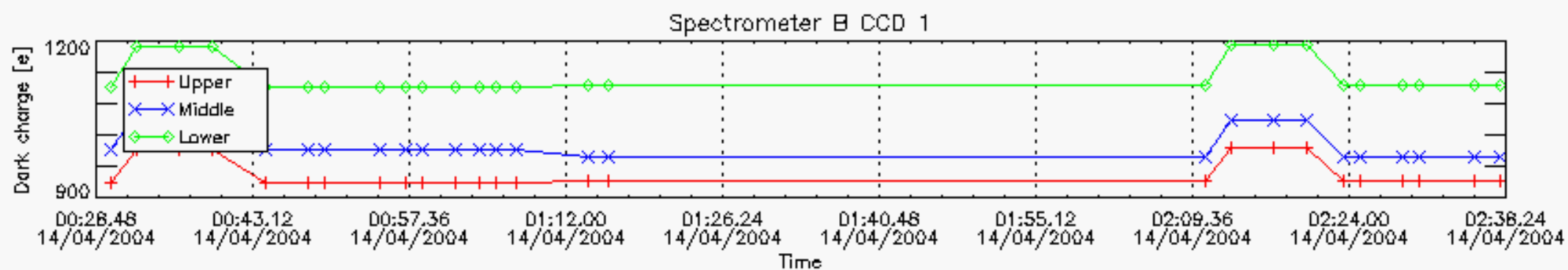
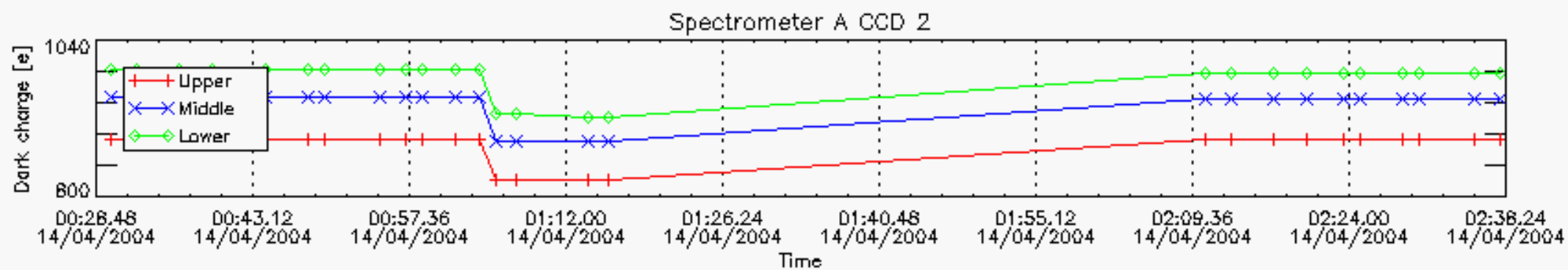
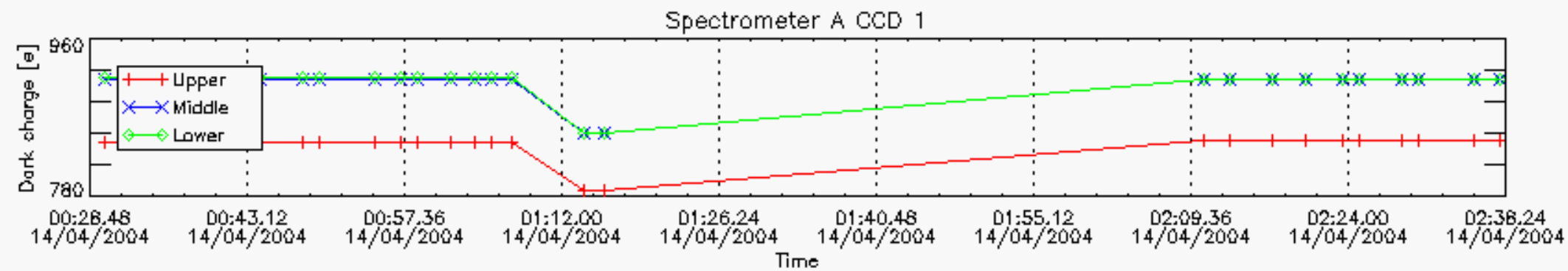
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

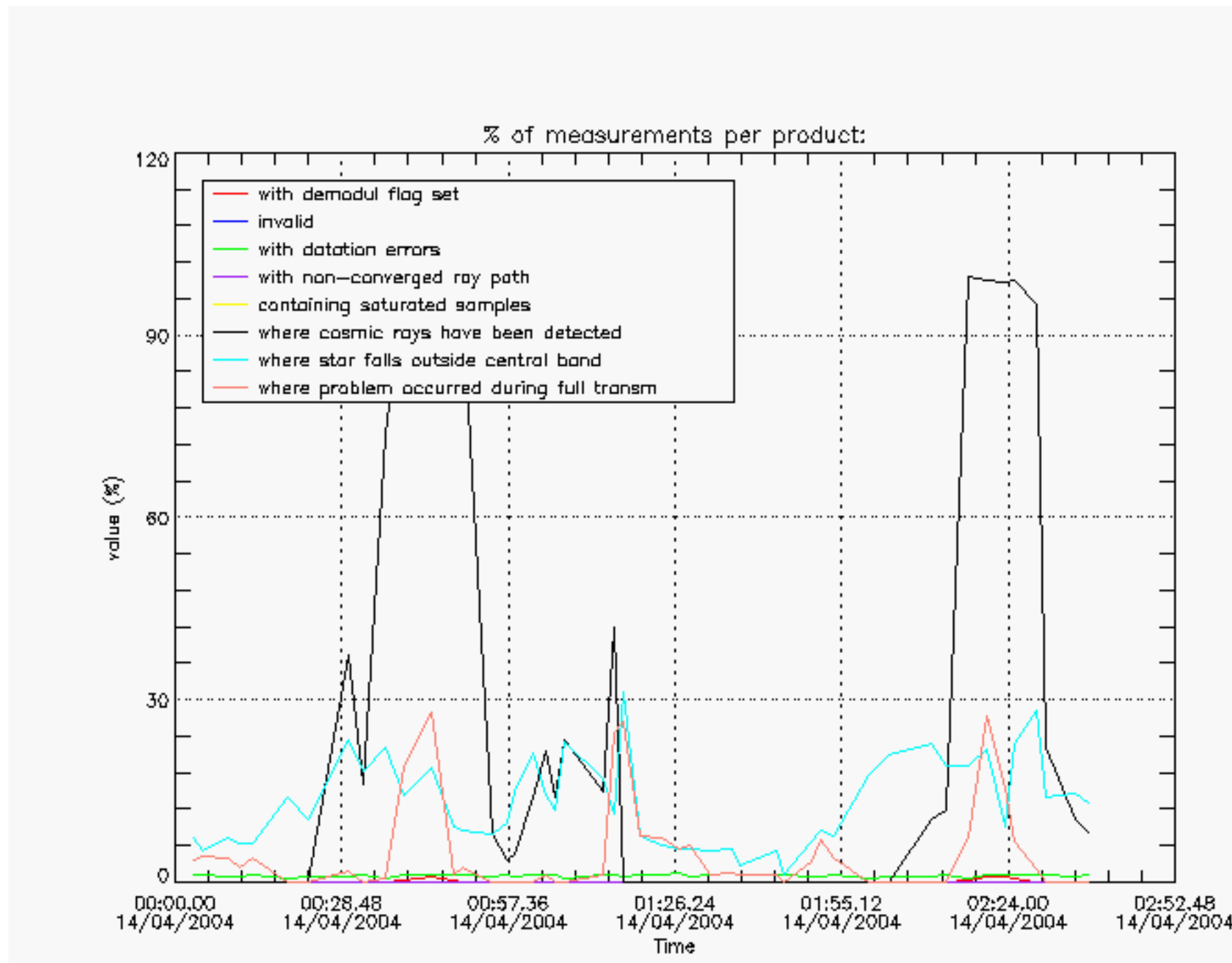
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.3	1447.2	1462.4	1448.8
St. deviation:	4.4128	6.9156	6.2370	8.2254
Maximum:	1500.0	1504.0	1527.0	1516.0
Minimum:	1453.0	1427.0	1446.0	1407.0
Number of data:	33400.	33400.	28950.	28950.



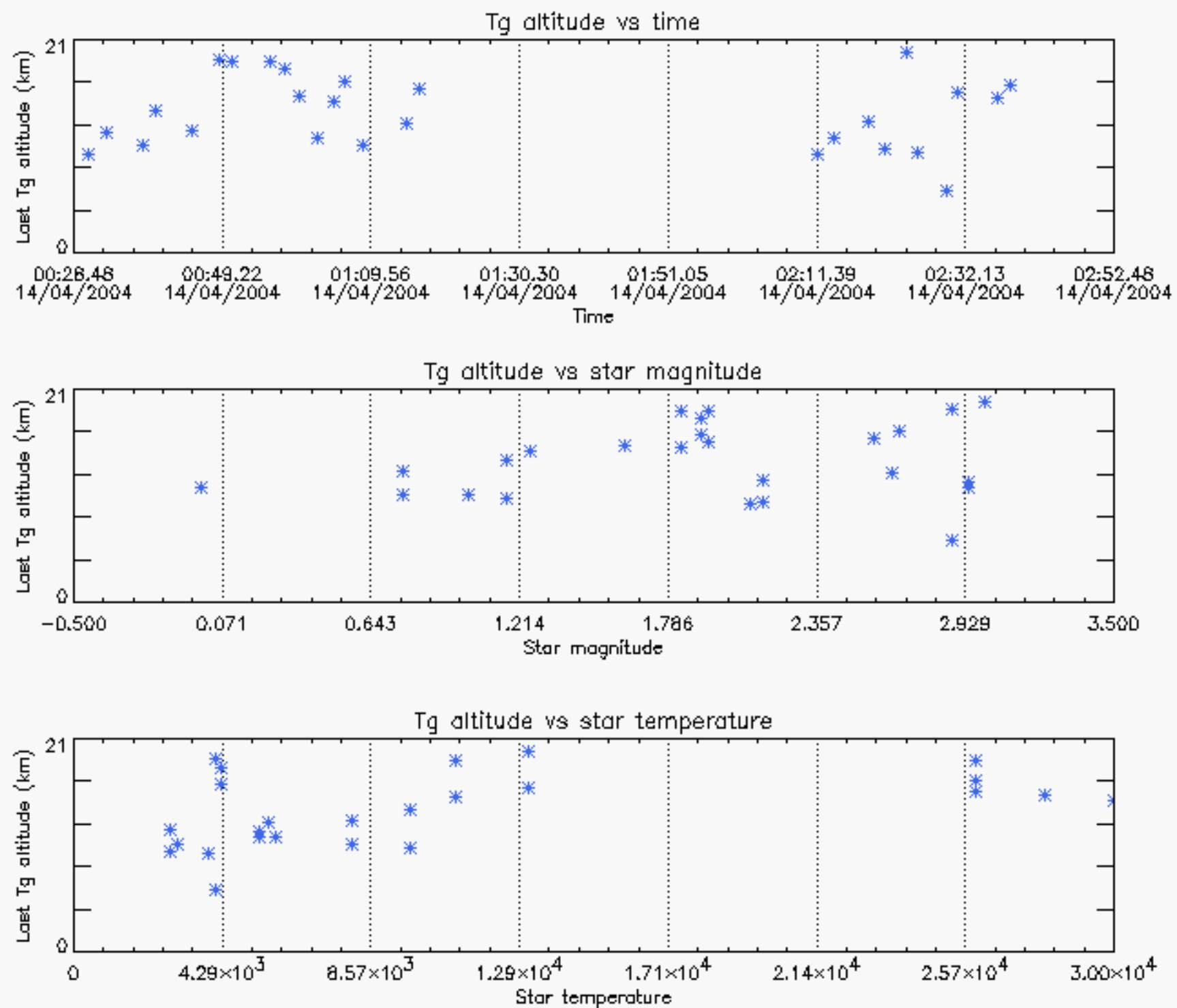




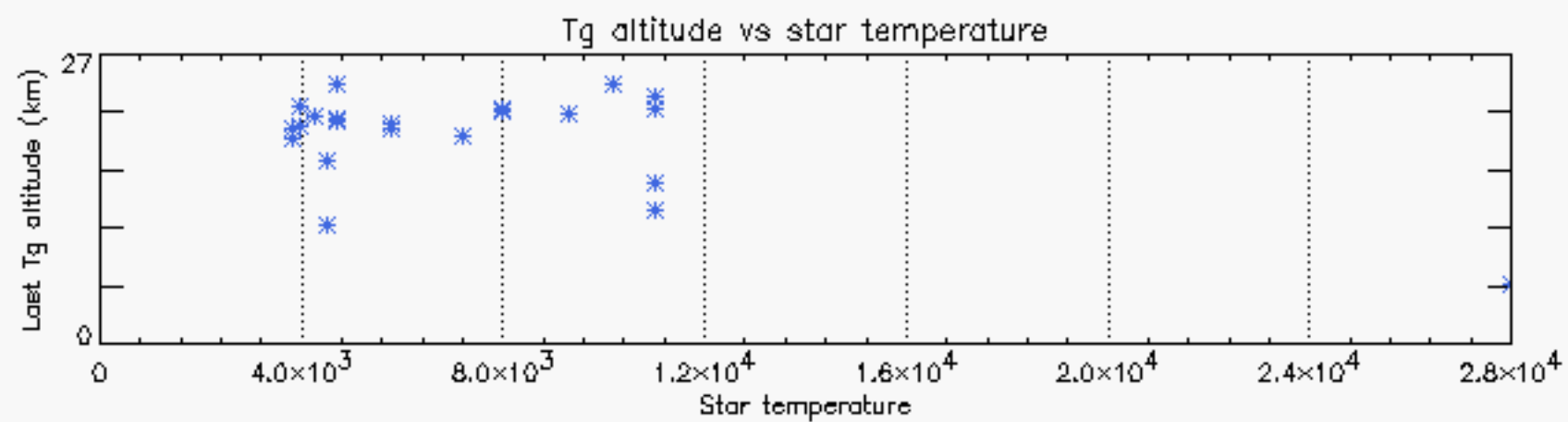
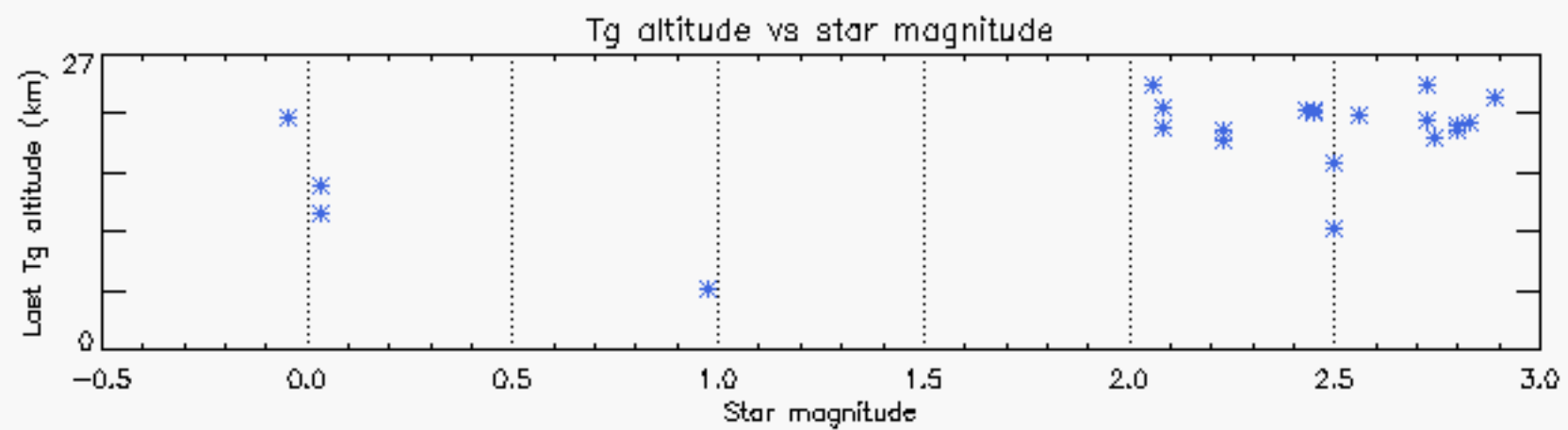
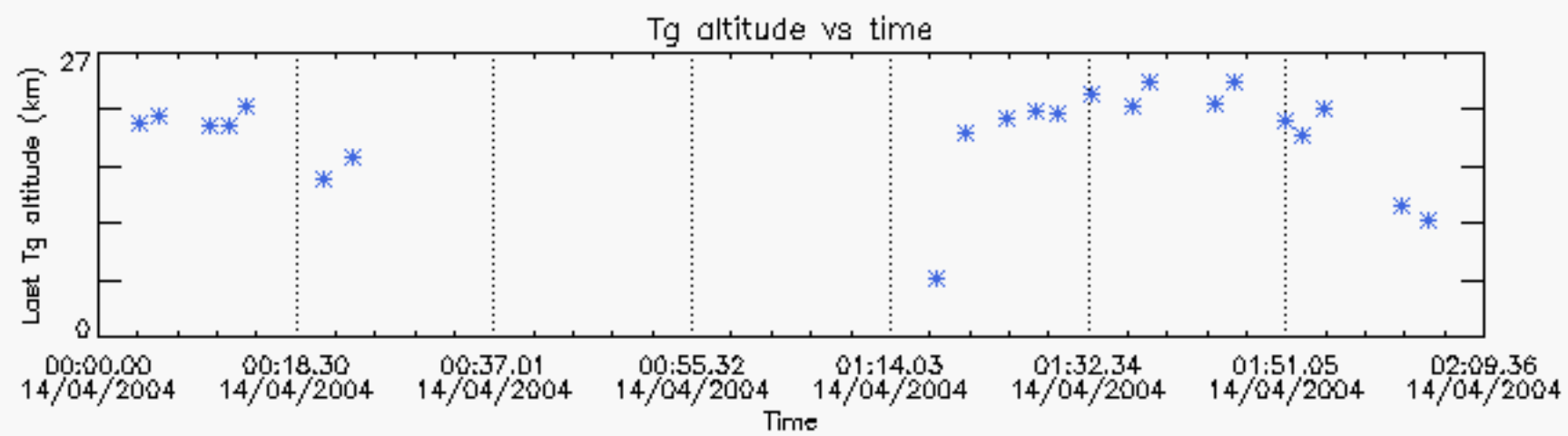




Tangent altitude at which the star is lost



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
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25; 284.1; 01-APR-2004 06:04:23; Dark ; 53.5; 85; Kap Sco ; 2.41; 28000;occ; 107; 0;10910
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 25; 73.3; 01-APR-2004 07:41:28; Dark ; 63.0; 116; 19Del Sgr ; 2.70; 4100;occ; 126; 0;10911
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 30; 812.4; 01-APR-2004 07:53:47; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;10911
 31; 899.6; 01-APR-2004 07:55:14; Dark ; 45.5; 26; Gam Cru ; 1.62; 2900;occ; 91; 0;10911
 32; 1016.7; 01-APR-2004 07:57:12; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;10911
 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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 12;-2198.5; 01-APR-2004 08:44:12; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;10911
 13;-2118.4; 01-APR-2004 08:45:32; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;10911
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 21;-296.4; 01-APR-2004 09:15:54; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;10911
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 25; 286.9; 01-APR-2004 09:25:38; Dark ; 55.0; 85; Kap Sco ; 2.41; 28000;occ; 110; 0;10912
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 27; 520.4; 01-APR-2004 09:29:31; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;10912
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27; 520.9; 01-APR-2004 11:10:08; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;10913
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32; 1103.8; 01-APR-2004 11:19:50; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;10913
33; 1253.8; 01-APR-2004 11:22:20; Dark ; 158.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 316; 0;10913
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