

GOMOS Daily Report 16-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	19APR2004 12:39:21
Data source version	GOMOS/4.02
Start time of products	16-APR-2004 (16APR2004 00:00:00)
Stop time of products	17-APR-2004 (17APR2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	48
Nb of prods with errors	1

2. Summary of products arrived in PCF

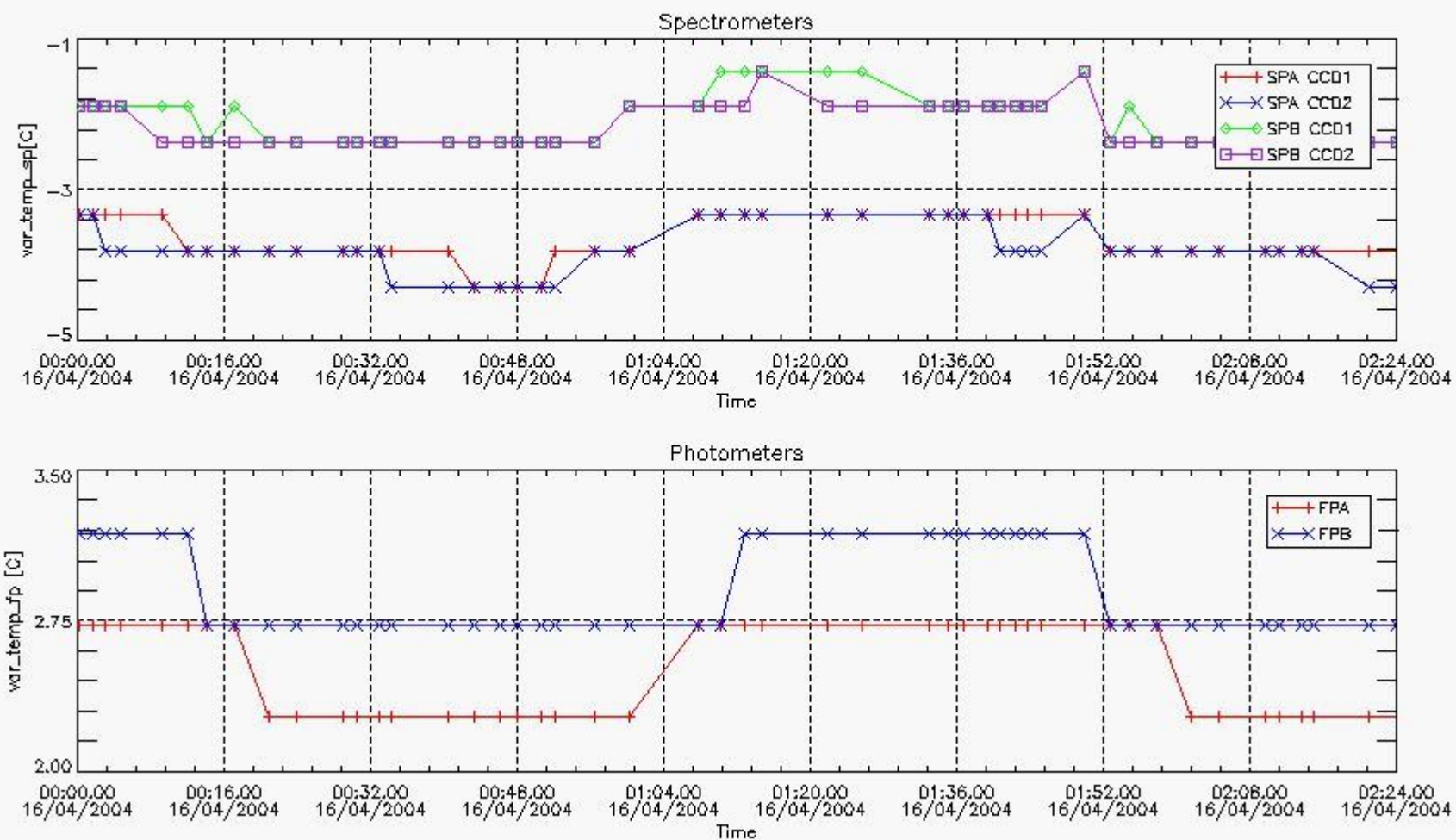
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040416_000010_000000442026_00045_11121_0030.N1	16-APR-2004 00:00:10	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	11121	No
GOM_TRA_1PNPDE20040416_000144_000000442026_00045_11121_0031.N1	16-APR-2004 00:01:44	Dark	43.500	26	Gam Cru	1.6240	2900.0	87	11121	No
GOM_TRA_1PNPDE20040416_000302_000000402026_00045_11121_0032.N1	16-APR-2004 00:03:02	Dark	39.500	95	Zet Cen	2.5450	26000.	79	11121	No
GOM_TRA_1PNPDE20040416_000437_000000902026_00045_11121_0033.N1	16-APR-2004 00:04:37	Dark	90.000	16	21Alp Sco	1.0200	3000.0	180	11121	No
GOM_TRA_1PNPDE20040416_000917_000000892026_00045_11121_0000.N1	16-APR-2004 00:09:17	Dark	89.000	97	8Bet1Sco	2.5610	30000.	178	11121	No
GOM_TRA_1PNPDE20040416_001205_000000732026_00045_11121_0001.N1	16-APR-2004 00:12:05	Dark	73.000	122	9Alp2Lib	2.7470	9700.0	146	11121	No
GOM_TRA_1PNPDE20040416_001410_000000452026_00045_11121_0002.N1	16-APR-2004 00:14:10	Bright	45.000	15	67Alp Vir	0.97600	28000.	90	11121	No
GOM_TRA_1PNPDE20040416_001713_000000392026_00045_11121_0003.N1	16-APR-2004 00:17:13	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	11121	No
GOM_TRA_1PNPDE20040416_002058_000000412026_00045_11121_0004.N1	16-APR-2004 00:20:58	Bright	40.500	138	47Eps Vir	2.8280	4700.0	81	11121	No
GOM_TRA_1PNPDE20040416_002356_000000352026_00045_11121_0005.N1	16-APR-2004 00:23:56	Bright	34.500	96	68Del Leo	2.5600	9300.0	69	11121	No
GOM_TRA_1PNPDE20040416_002904_000000392026_00045_11121_0006.N1	16-APR-2004 00:29:04	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	11121	No
GOM_TRA_1PNPDE20040416_003032_000000362026_00045_11121_0007.N1	16-APR-2004 00:30:32	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	11121	No
GOM_TRA_1PNPDE20040416_003257_000000362026_00045_11121_0008.N1	16-APR-2004 00:32:57	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	11121	No
GOM_TRA_1PNPDE20040416_003417_000000382026_00045_11121_0009.N1	16-APR-2004 00:34:17	Bright	38.000	55	79Zet UMa	2.0600	10200.	76	11121	No
GOM_TRA_1PNPDE20040416_004028_000000392026_00045_11121_0010.N1	16-APR-2004 00:40:28	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	11121	No
GOM_TRA_1PNPDE20040416_004320_000000342026_00045_11121_0011.N1	16-APR-2004 00:43:20	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	11121	No
GOM_TRA_1PNPDE20040416_004608_000000602026_00045_11121_0012.N1	16-APR-2004 00:46:08	Bright	60.000	130	23Bet Dra	2.7990	5800.0	120	11121	No
GOM_TRA_1PNPDE20040416_004758_000000642026_00045_11121_0013.N1	16-APR-2004 00:47:58	Bright	63.500	69	33Gam Dra	2.2310	3800.0	127	11121	No
GOM_TRA_1PNPDE20040416_005035_000000402026_00045_11121_0014.N1	16-APR-2004 00:50:35	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	11121	No
GOM_TRA_1PNPDE20040416_005207_000000362026_00045_11121_0015.N1	16-APR-2004 00:52:07	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	11121	No
GOM_TRA_1PNPDE20040416_005624_000001202026_00045_11121_0016.N1	16-APR-2004 00:56:24	Bright	120.00	5	3Alp Lyr	0.033000	11000.	240	11121	No
GOM_TRA_1PNPDE20040416_010013_000000592026_00045_11121_0017.N1	16-APR-2004 01:00:13	Bright	58.500	92	53Eps Cyg	2.5000	4500.0	117	11121	No
GOM_TRA_1PNPDE20040416_010741_000000542026_00045_11121_0018.N1	16-APR-2004 01:07:41	Dark	54.000	61	8Eps Peg	2.1000	3900.0	108	11121	No
GOM_TRA_1PNPDE20040416_011009_000000462026_00045_11121_0019.N1	16-APR-2004 01:10:09	Dark	46.000	162	34Alp Aqr	2.9440	5350.0	92	11121	No
GOM_TRA_1PNPDE20040416_011249_000000502026_00045_11121_0020.N1	16-APR-2004 01:12:49	Dark	50.000	154	22Bet Aqr	2.8990	5700.0	100	11121	No
GOM_TRA_1PNPDE20040416_011446_000001442026_00045_11121_0021.N1	16-APR-2004 01:14:46	Dark	144.00	11	53Alp Aql	0.76500	8000.0	288	11121	No
GOM_TRA_1PNPDE20040416_012153_000000462026_00045_11121_0022.N1	16-APR-2004 01:21:53	Dark	46.000	63	Bet Gru	2.1500	2800.0	92	11121	No
GOM_TRA_1PNPDE20040416_012543_000000422026_00045_11121_0023.N1	16-APR-2004 01:25:43	Dark	41.500	148	Alp Tuc	2.8780	4100.0	83	11121	No
GOM_TRA_1PNPDE20040416_013256_000000642026_00046_11122_0025.N1	16-APR-2004 01:32:56	Dark	63.500	38	20Eps Sgr	1.8360	11000.	127	11122	No
GOM_TRA_1PNPDE20040416_013502_000000472026_00046_11122_0026.N1	16-APR-2004 01:35:02	Dark	47.000	147	Alp Ara	2.8770	26000.	94	11122	No
GOM_TRA_1PNPDE20040416_013649_000000672026_00046_11122_0027.N1	16-APR-2004 01:36:49	Dark	66.500	25	35Lam Sco	1.6200	28000.	133	11122	No
GOM_TRA_1PNPDE20040416_013919_000000542026_00046_11122_0028.N1	16-APR-2004 01:39:19	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	11122	No
GOM_TRA_1PNPDE20040416_014046_000000472026_00046_11122_0029.N1	16-APR-2004 01:40:46	Dark	46.500	12	Alp1Cru	0.77500	30000.	93	11122	No
GOM_TRA_1PNPDE20040416_014220_000000452026_00046_11122_0030.N1	16-APR-2004 01:42:20	Dark	45.000	26	Gam Cru	1.6240	2900.0	90	11122	No
GOM_TRA_1PNPDE20040416_014339_000000402026_00046_11122_0031.N1	16-APR-2004 01:43:39	Dark	39.500	95	Zet Cen	2.5450	26000.	79	11122	No
GOM_TRA_1PNPDE20040416_014514_000000902026_00046_11122_0032.N1	16-APR-2004 01:45:14	Dark	90.000	16	21Alp Sco	1.0200	3000.0	180	11122	No
GOM_TRA_1PNPDE20040416_014953_000000882026_00046_11122_0000.N1	16-APR-2004 01:49:53	Dark	88.000	97	8Bet1Sco	2.5610	30000.	176	11122	Yes
GOM_TRA_1PNPDE20040416_015242_000000632026_00046_11122_0001.N1	16-APR-2004 01:52:42	Dark	62.500	122	9Alp2Lib	2.7470	9700.0	125	11122	No
GOM_TRA_1PNPDE20040416_015446_000000452026_00046_11122_0002.N1	16-APR-2004 01:54:46	Bright	45.000	15	67Alp Vir	0.97600	28000.	90	11122	No
GOM_TRA_1PNPDE20040416_015749_000000382026_00046_11122_0003.N1	16-APR-2004 01:57:49	Bright	38.000	121	29Gam Vir	2.7400	7200.0	76	11122	No
GOM_TRA_1PNPDE20040416_020134_000000402026_00046_11122_0004.N1	16-APR-2004 02:01:34	Bright	40.000	138	47Eps Vir	2.8280	4700.0	80	11122	No
GOM_TRA_1PNPDE20040416_020432_000000352026_00046_11122_0005.N1	16-APR-2004 02:04:32	Bright	35.000	96	68Del Leo	2.5600	9300.0	70	11122	No
GOM_TRA_1PNPDE20040416_020940_000000382026_00046_11122_0006.N1	16-APR-2004 02:09:40	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	11122	No
GOM_TRA_1PNPDE20040416_021108_000000362026_00046_11122_0007.N1	16-APR-2004 02:11:08	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	11122	No
GOM_TRA_1PNPDE20040416_021333_000000362026_00046_11122_0008.N1	16-APR-2004 02:13:33	Bright	36.000	87	64Gam UMa	2.4330	11000.	72	11122	No
GOM_TRA_1PNPDE20040416_021452_000000382026_00046_11122_0009.N1	16-APR-2004 02:14:52	Bright	37.500	55	79Zet UMa	2.0600	10200.	75	11122	No
GOM_TRA_1PNPDE20040416_022103_000000412026_00046_11122_0010.N1	16-APR-2004 02:21:03	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	11122	No
GOM_TRA_1PNPDE20040416_022356_000000362026_00046_11122_0011.N1	16-APR-2004 02:23:56	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	11122	No

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



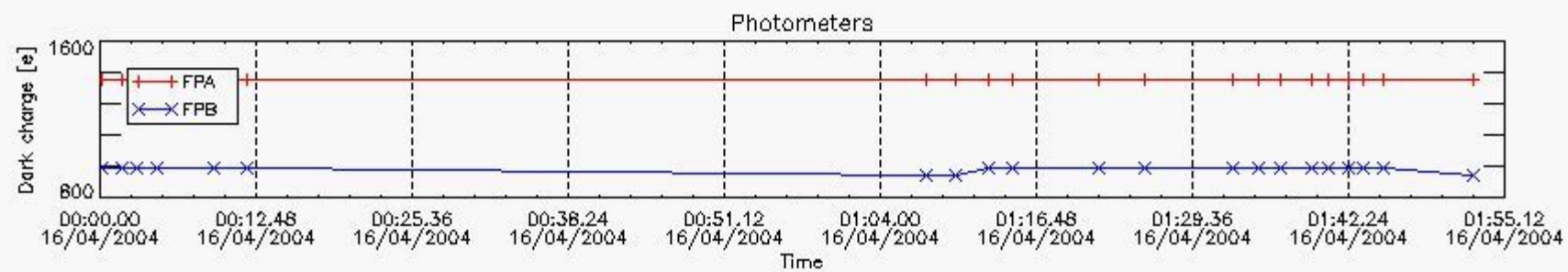
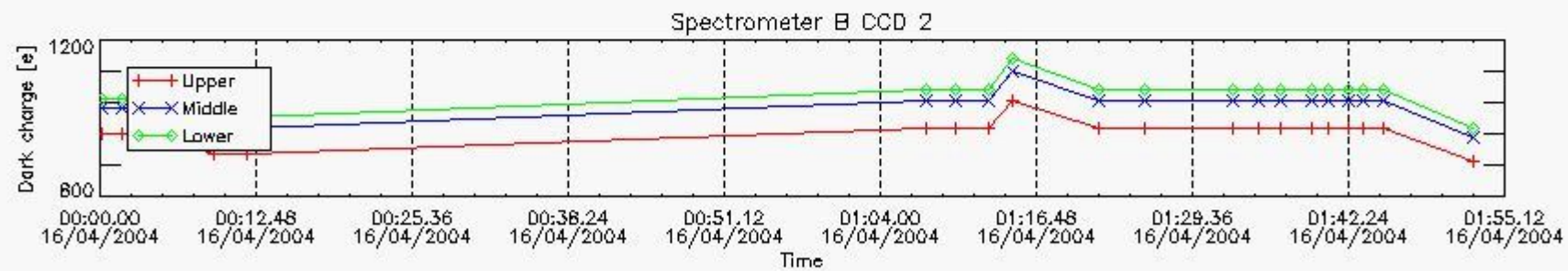
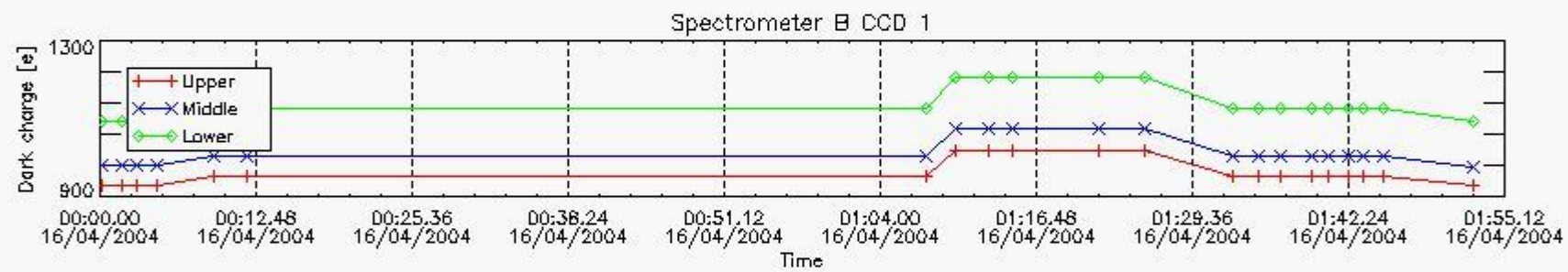
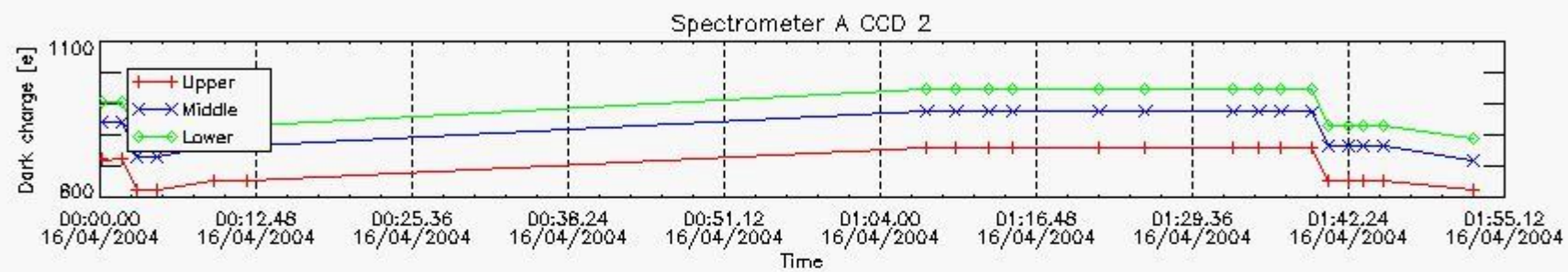
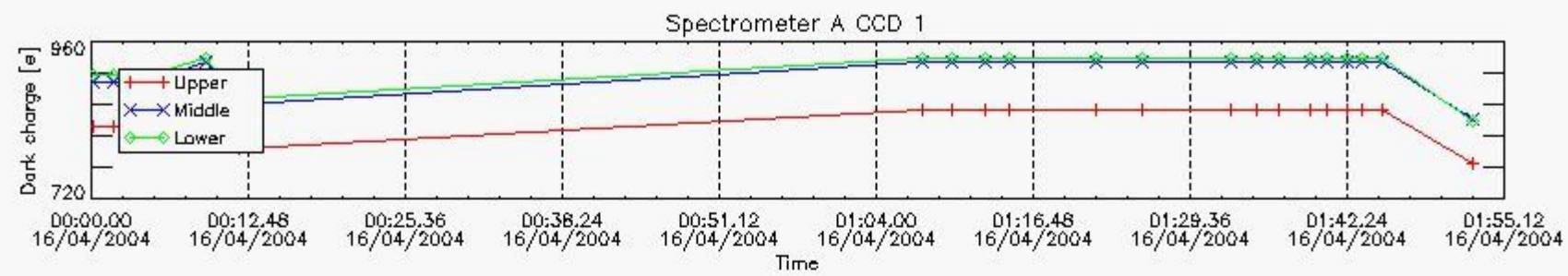
4. Overview of dark signal processing per product

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

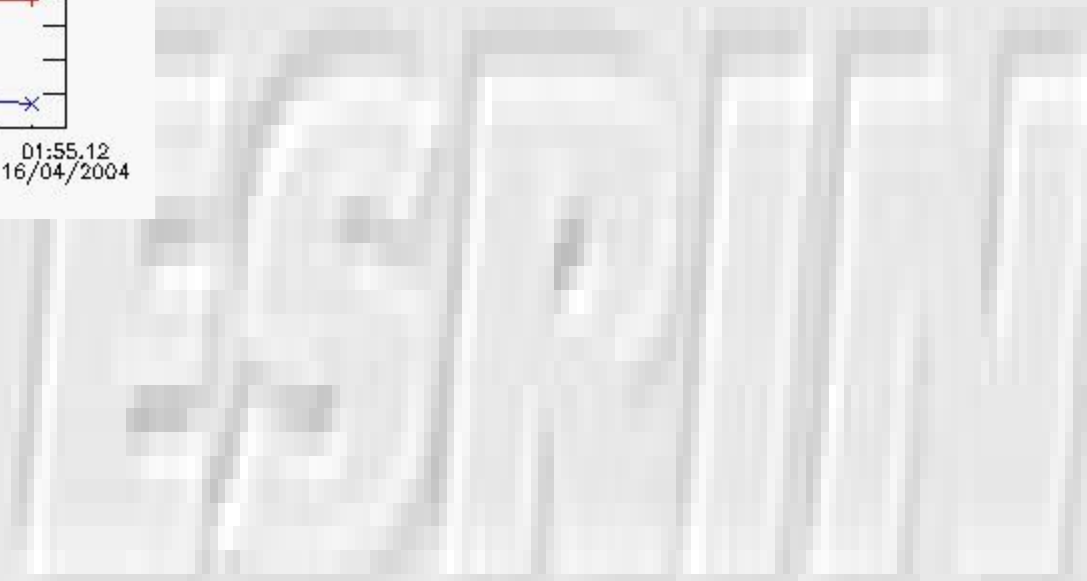
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



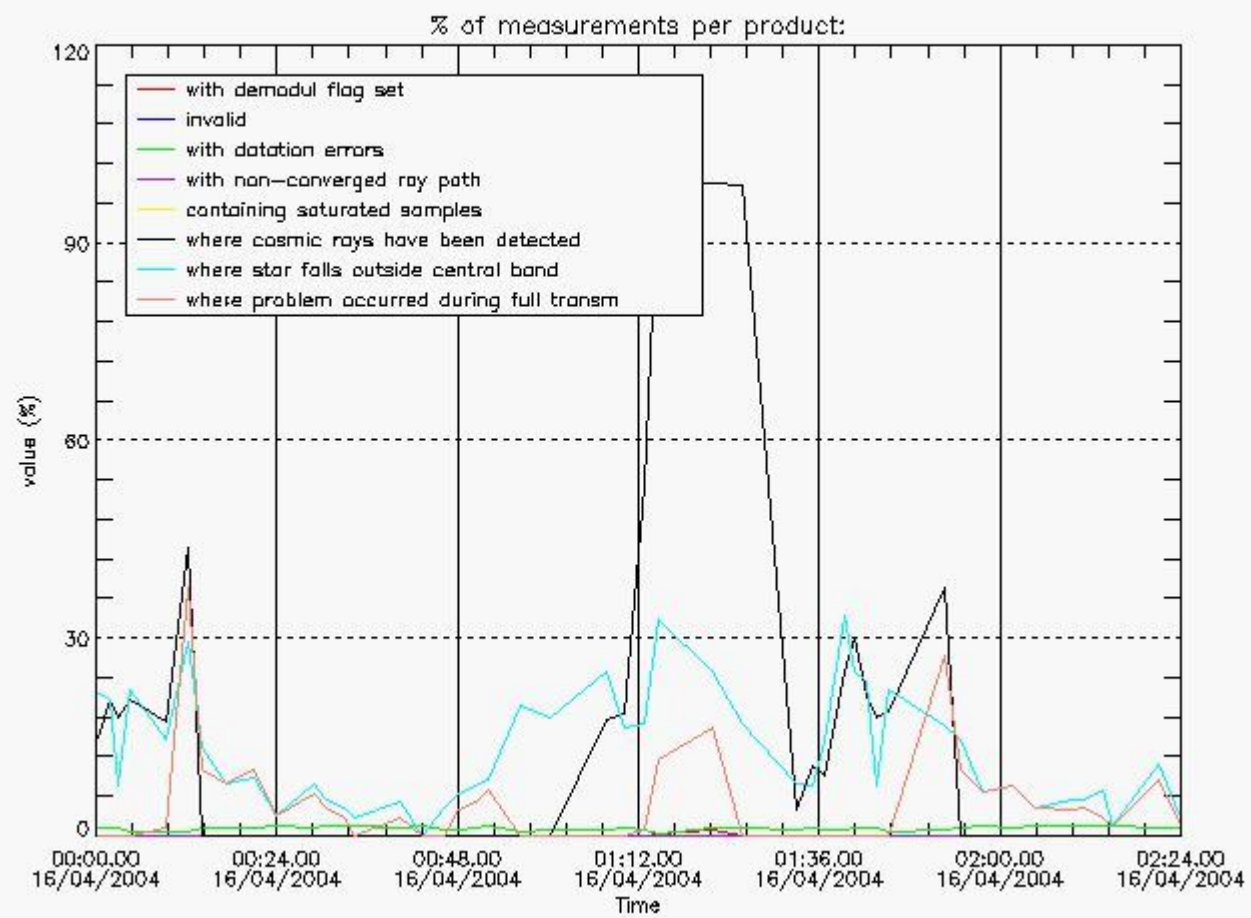
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.6383 %
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



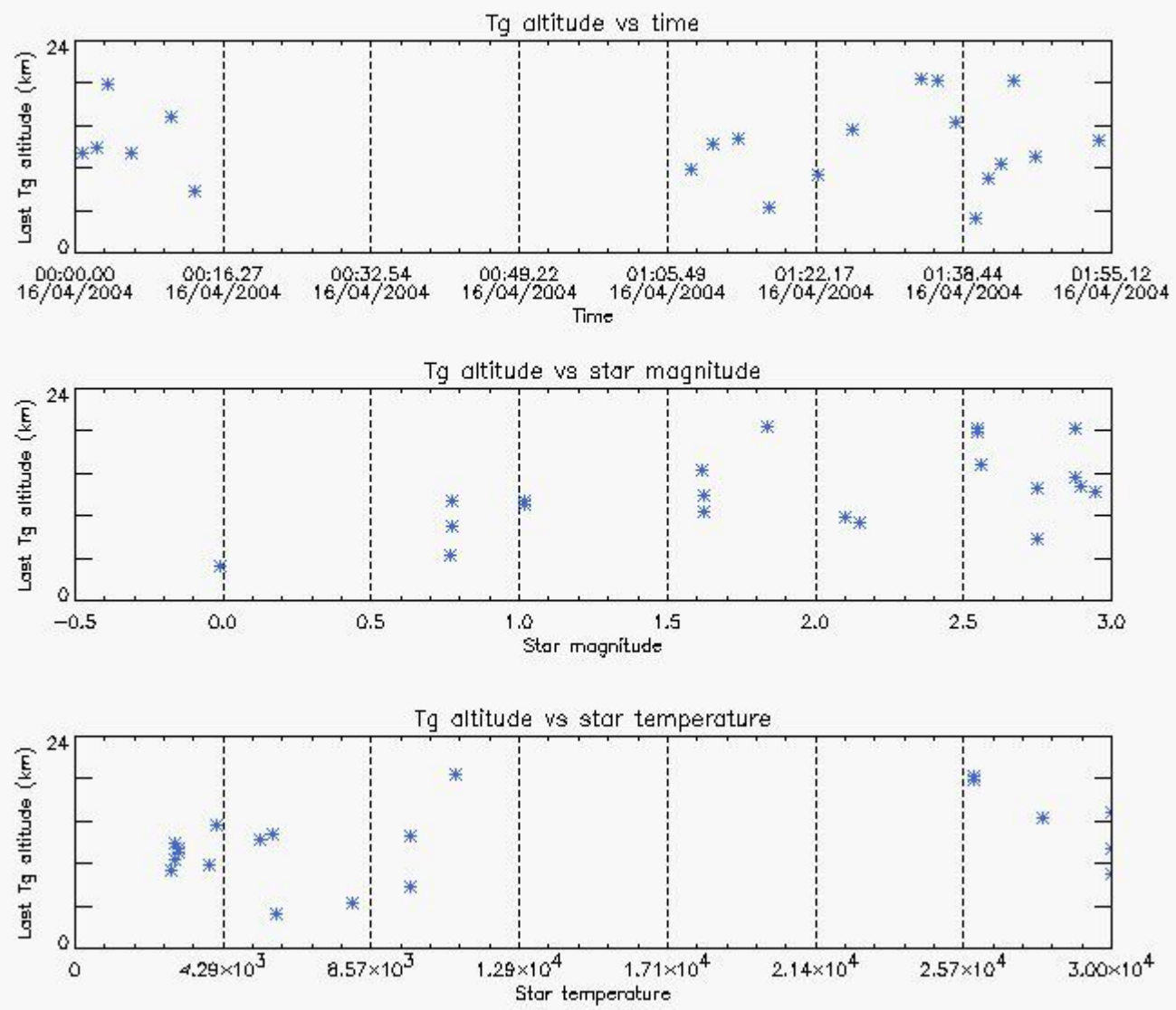
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	12.282	20.416
St. deviation:	4.5536	3.6000
Maximum:	19.670	27.018
Minimum:	3.9945	12.434
Number of data:	21.000	26.000

6.2 Plot for DARK limb products

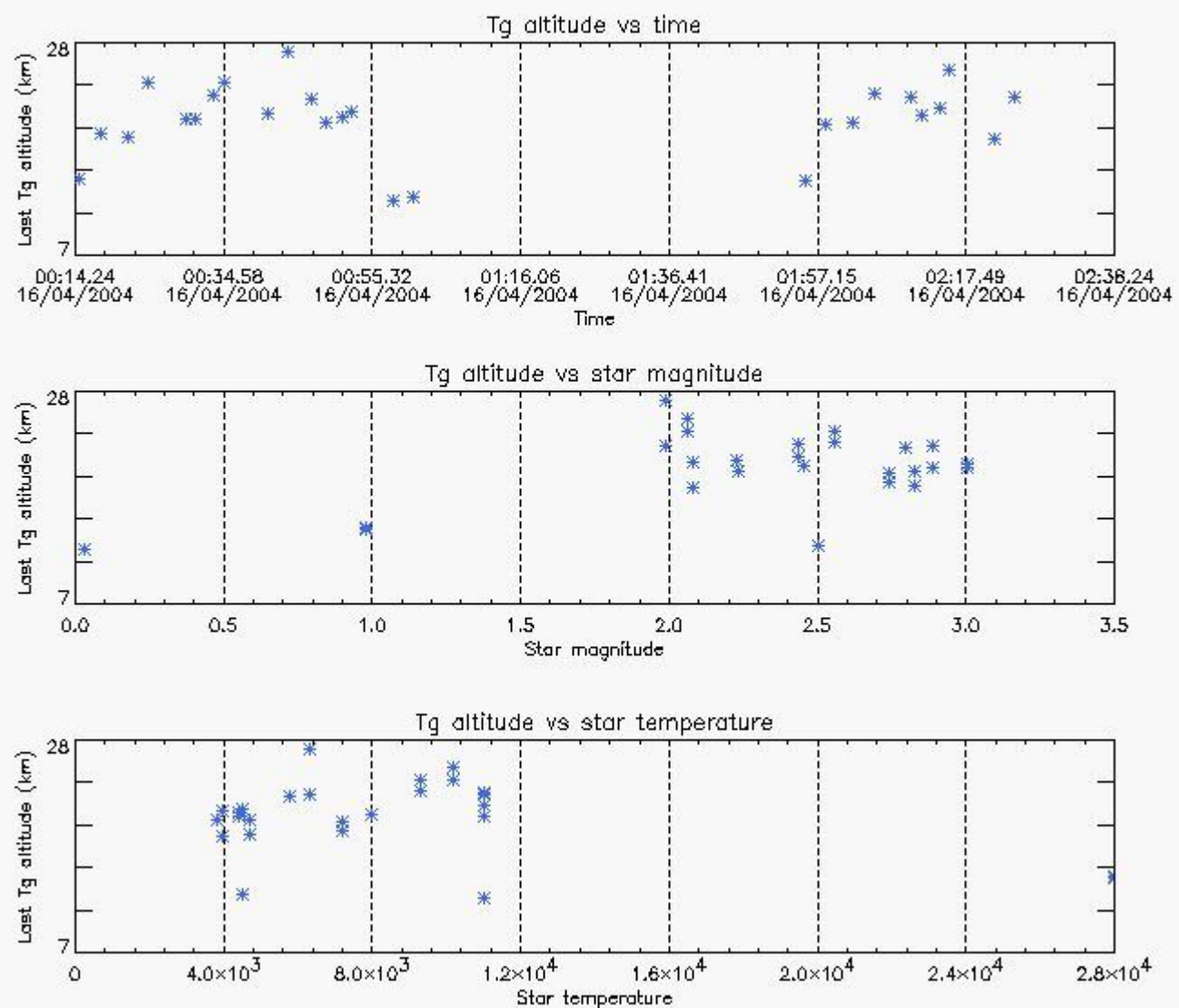
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



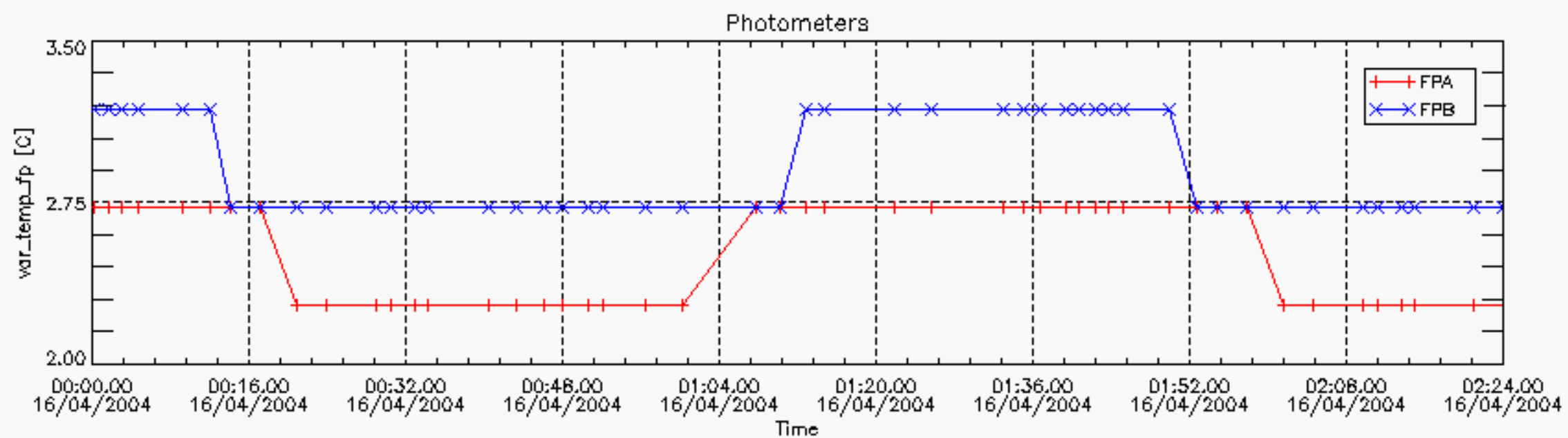
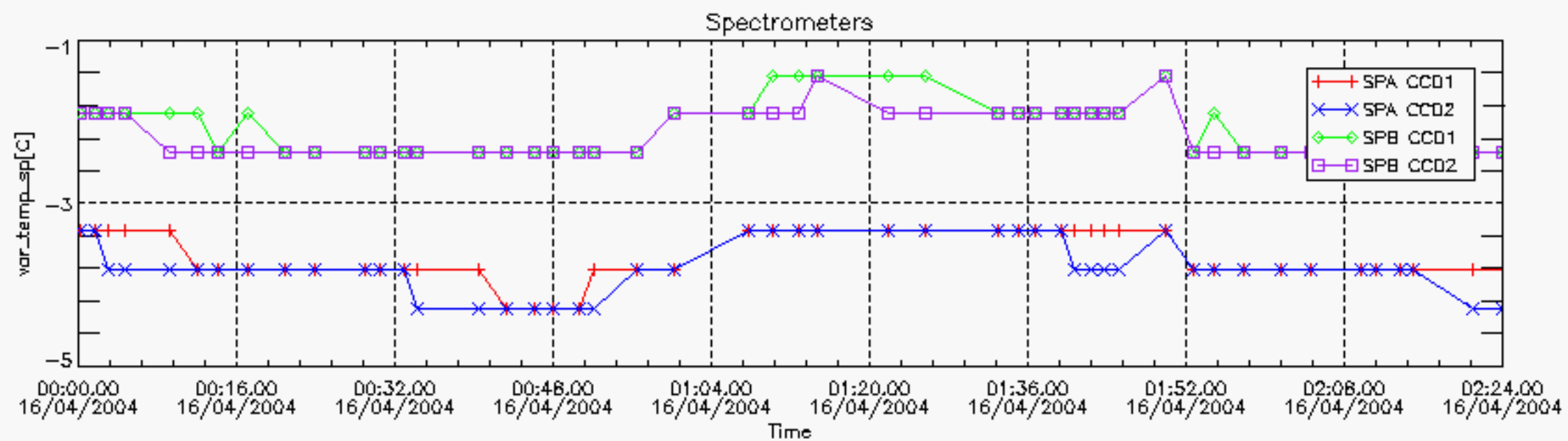
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

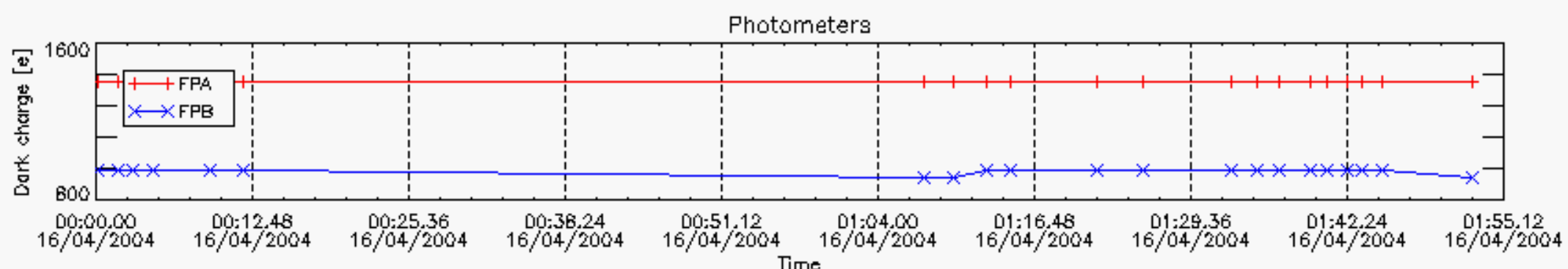
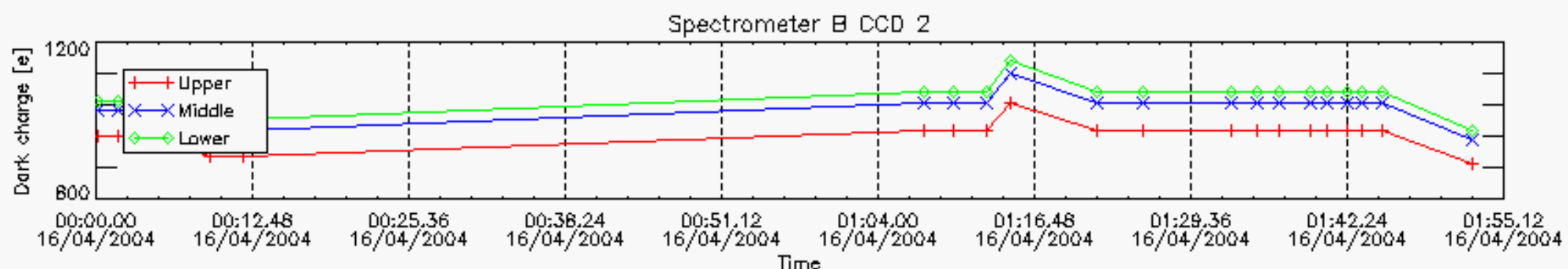
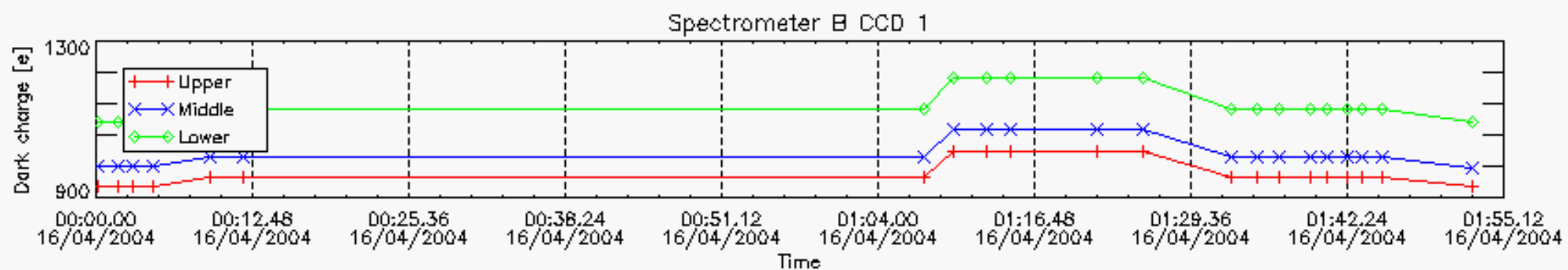
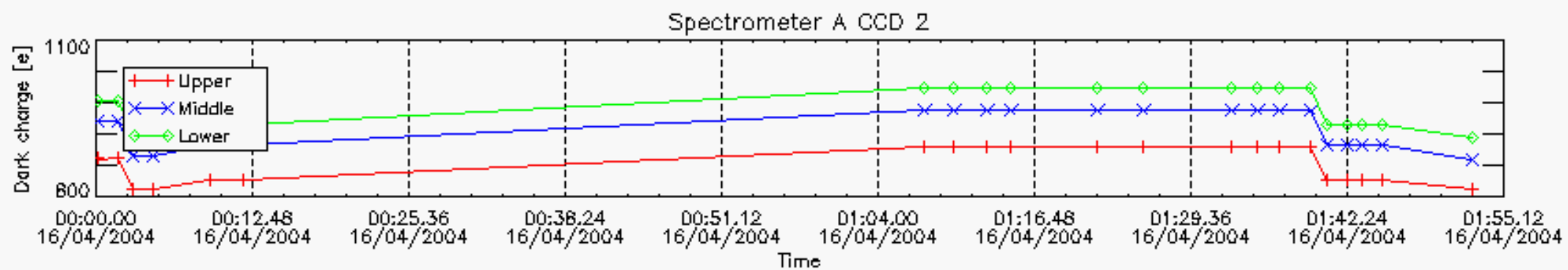
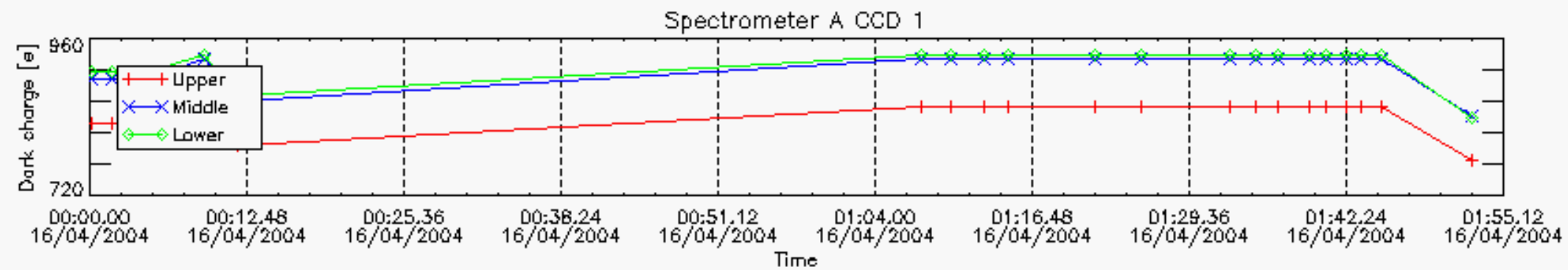
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

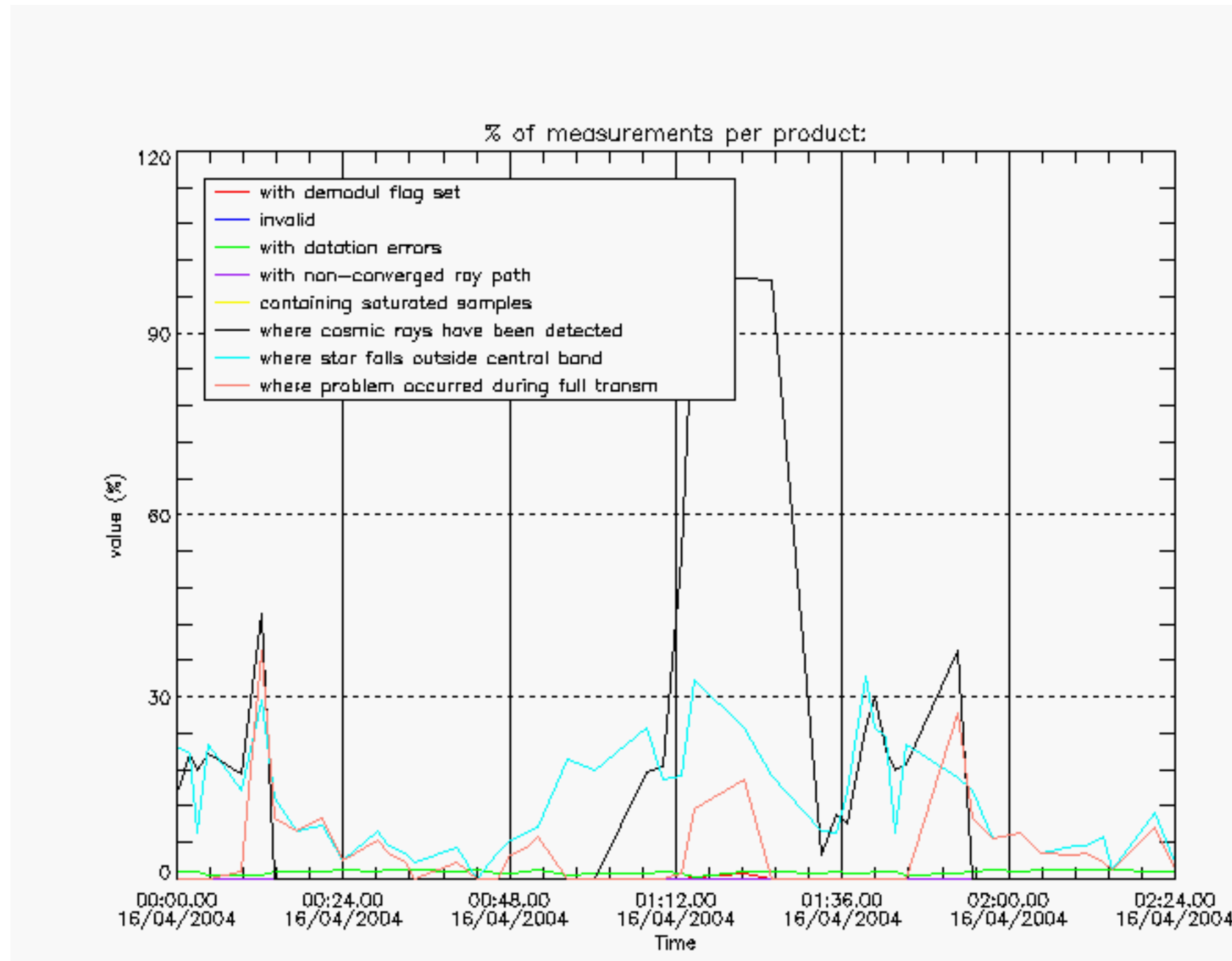
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.1	1448.2	1461.7	1447.3
St. deviation:	4.7853	5.9003	7.0986	8.0971
Maximum:	1495.0	1485.0	1513.0	1489.0
Minimum:	1437.0	1413.0	1447.0	1425.0
Number of data:	27350.	27350.	26900.	26900.



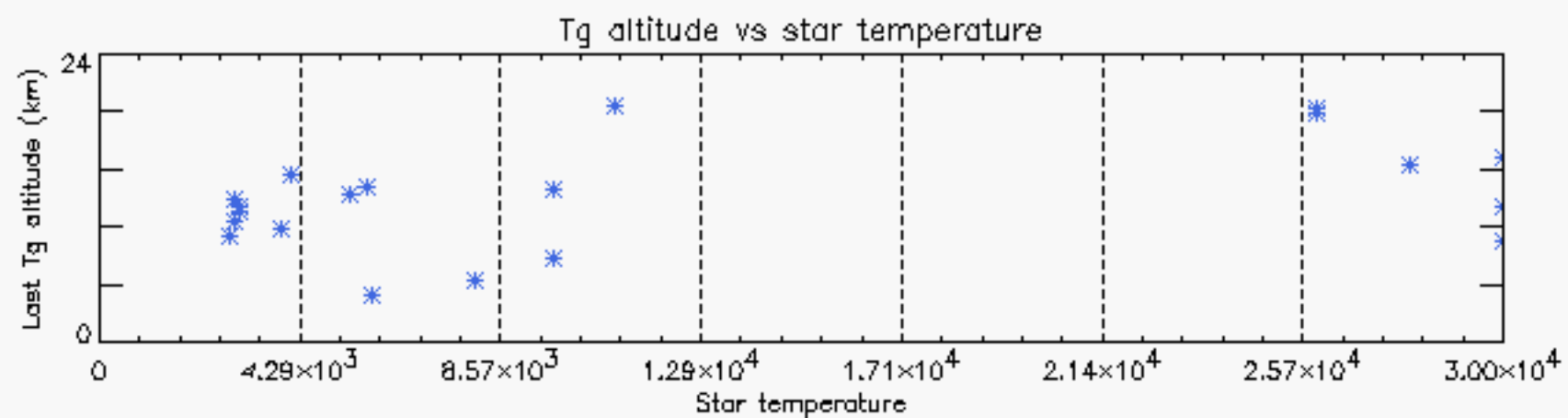
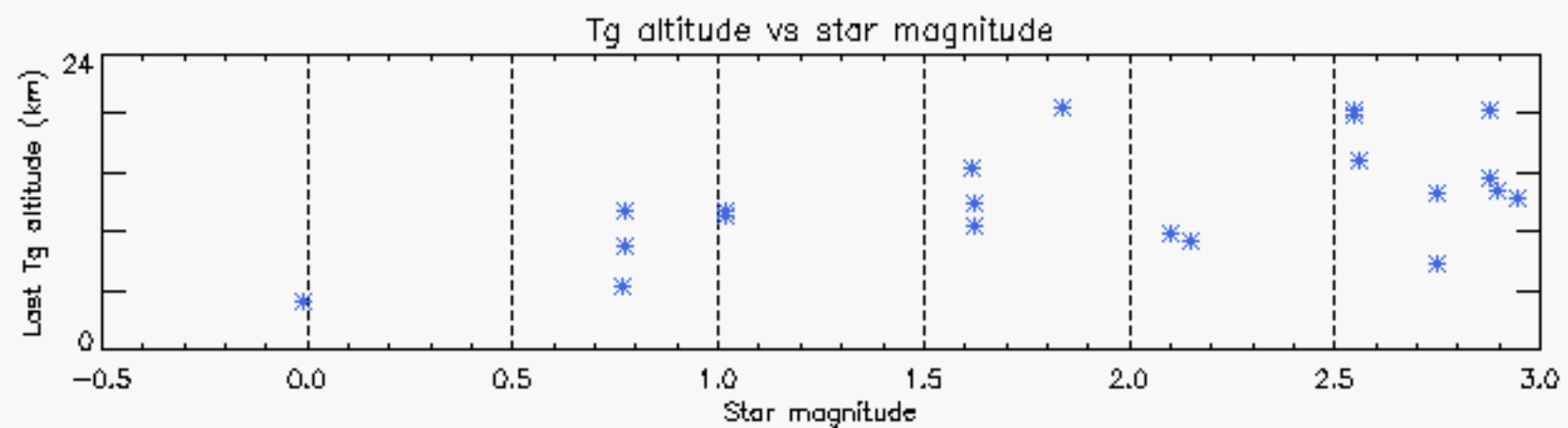
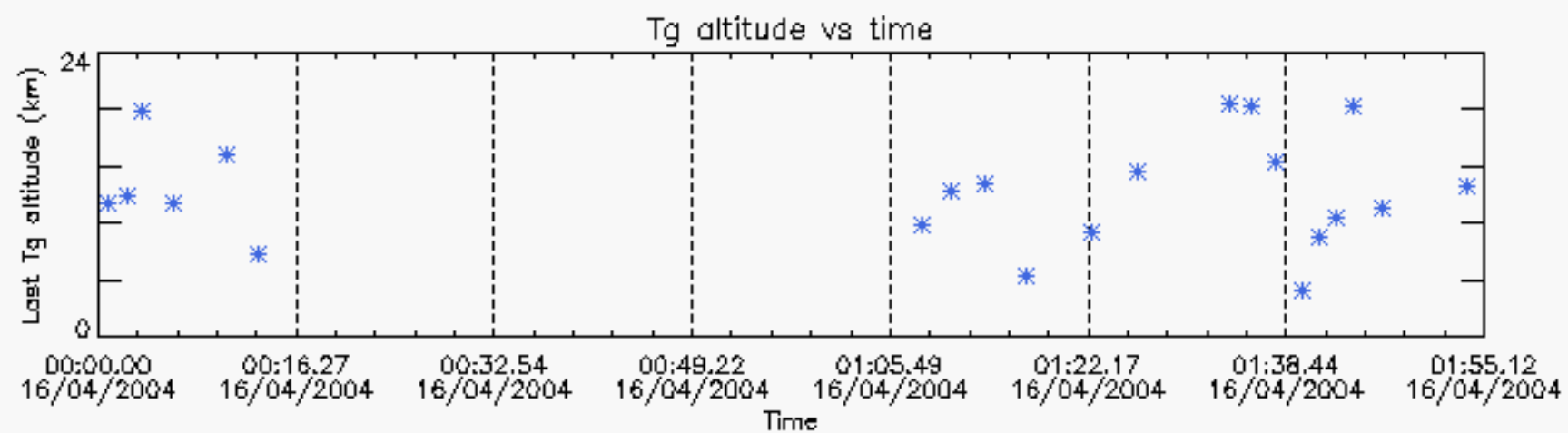




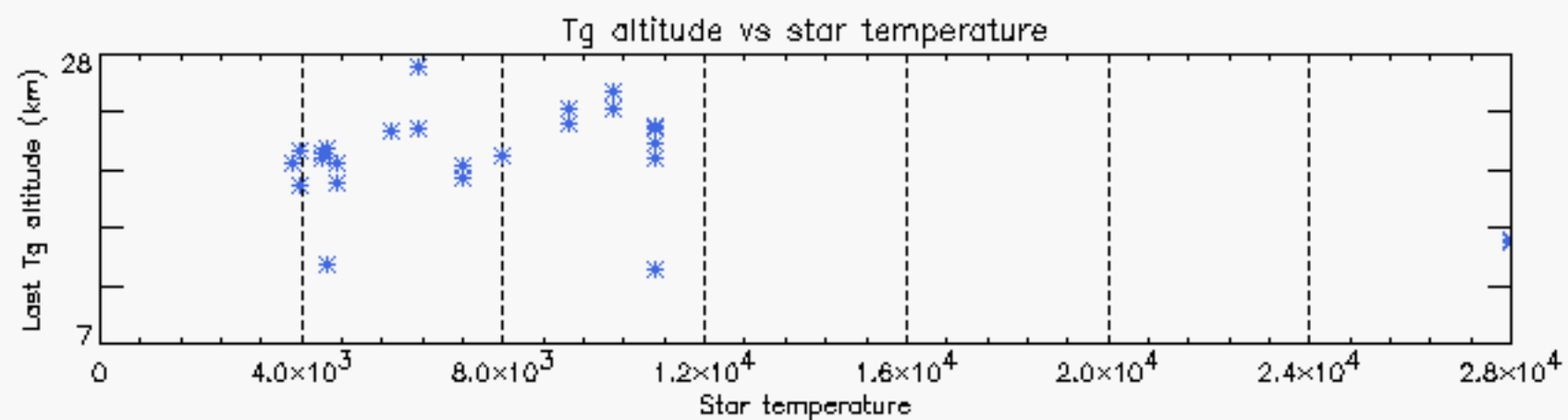
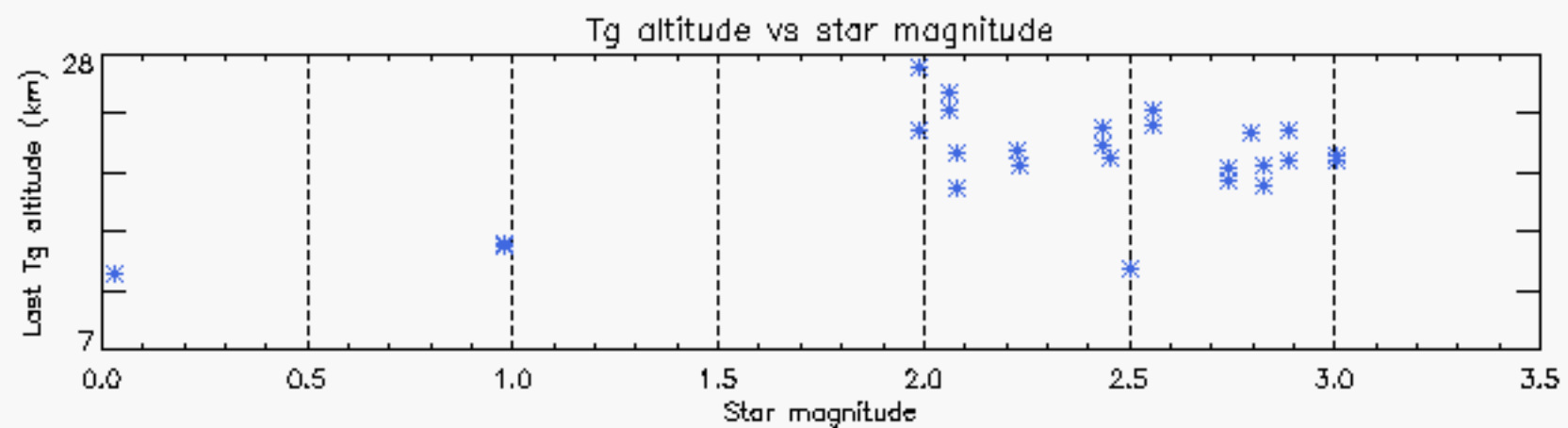
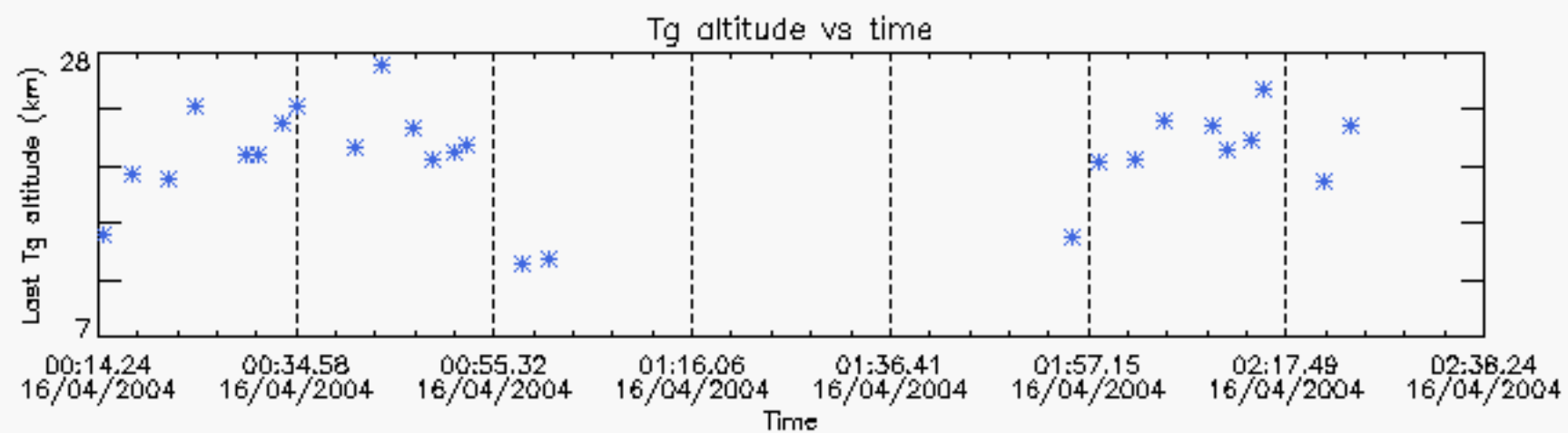




Tangent altitude at which the star is lost



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
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21;	-779.1;	01-APR-2004	02:25:28;	Dark	;	43.0;	142;	49Del	Cap	;	2.85;	8900;	occ;	86;	0;	10907
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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
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9;	-3080.1;	01-APR-2004	11:50:42;	Bright	;	39.5;	36;	50Alp	UMa	;	1.80;	6300;	occ;	79;	0;	10913
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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
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 26; 290.1; 01-APR-2004 14:27:28; Dark ; 53.5; 85; Kap Sco ; 2.41; 28000;occ; 107; 0;10915
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21;-644.9; 30-APR-2004 05:37:22; Dark ; 66.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 132; 0;11324
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