

GOMOS Daily Report 15-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 10:51:32
Data source version	GOMOS/4.02
Start time of products	15-APR-2004 (15APR2004 00:00:00)
Stop time of products	16-APR-2004 (16APR2004 00:00:00)
Store outputs flag	1
Nb of level 1b prods	44
Nb of prods with errors	1

2. Summary of products arrived in PCF

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

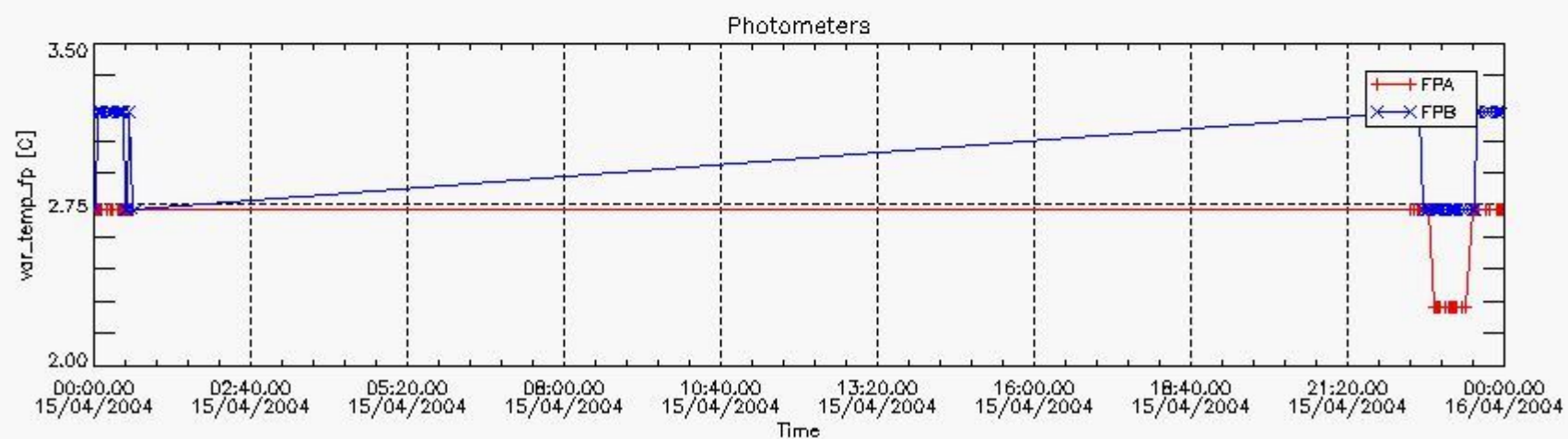
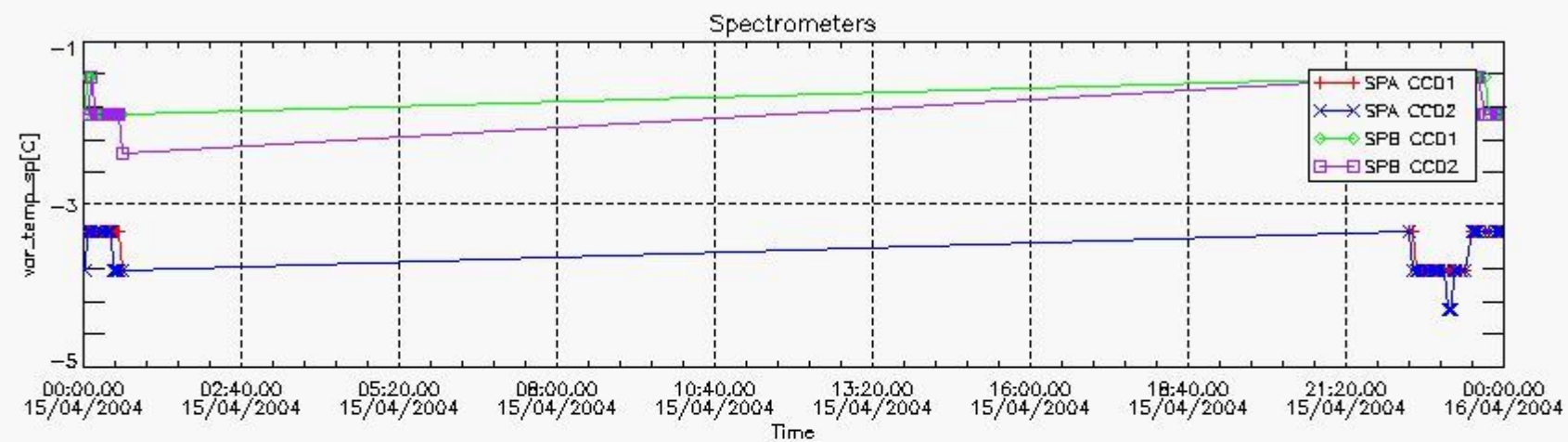
[2.2 Summary of processed GOM_TRA_1P products.](#)

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_1PNPDE20040415_000102_000000462026_00030_11106_0020.N1	15-APR-2004 00:01:02	Dark	45.500	162	34Alp Aqr	2.9440	5350.0	91	11106	No
GOM_TRA_1PNPDE20040415_000339_000000512026_00030_11106_0021.N1	15-APR-2004 00:03:39	Dark	50.500	154	22Bet Aqr	2.8990	5700.0	101	11106	No
GOM_TRA_1PNPDE20040415_000603_000000472026_00030_11106_0022.N1	15-APR-2004 00:06:03	Dark	47.000	142	49Del Cap	2.8500	8900.0	94	11106	No
GOM_TRA_1PNPDE20040415_000759_000000432026_00030_11106_0023.N1	15-APR-2004 00:07:59	Dark	42.500	18	24Alp PsA	1.1660	9700.0	85	11106	No
GOM_TRA_1PNPDE20040415_001250_000000472026_00030_11106_0024.N1	15-APR-2004 00:12:50	Dark	47.000	63	Bet Gru	2.1500	2800.0	94	11106	No
GOM_TRA_1PNPDE20040415_001640_000000392026_00030_11106_0025.N1	15-APR-2004 00:16:40	Dark	38.500	148	Alp Tuc	2.8780	4100.0	77	11106	No
GOM_TRA_1PNPDE20040415_001822_000000462026_00031_11107_0026.N1	15-APR-2004 00:18:22	Dark	46.000	45	Alp Pav	1.9400	26000.	92	11107	No
GOM_TRA_1PNPDE20040415_002334_000000652026_00031_11107_0028.N1	15-APR-2004 00:23:34	Dark	65.000	38	20Eps Sgr	1.8360	11000.	130	11107	No
GOM_TRA_1PNPDE20040415_002545_000000412026_00031_11107_0029.N1	15-APR-2004 00:25:45	Dark	40.500	43	Alp TrA	1.9100	4250.0	81	11107	No
GOM_TRA_1PNPDE20040415_002731_000000622026_00031_11107_0030.N1	15-APR-2004 00:27:31	Dark	62.000	25	35Lam Sco	1.6200	28000.	124	11107	No
GOM_TRA_1PNPDE20040415_003014_000000432026_00031_11107_0031.N1	15-APR-2004 00:30:14	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	11107	No
GOM_TRA_1PNPDE20040415_003145_000000442026_00031_11107_0032.N1	15-APR-2004 00:31:45	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	11107	No
GOM_TRA_1PNPDE20040415_003318_000000442026_00031_11107_0033.N1	15-APR-2004 00:33:18	Dark	43.500	26	Gam Cru	1.6240	2900.0	87	11107	No
GOM_TRA_1PNPDE20040415_003601_000000962026_00031_11107_0034.N1	15-APR-2004 00:36:01	Dark	96.000	16	21Alp Sco	1.0200	3000.0	192	11107	No
GOM_TRA_1PNPDE20040415_003921_000000822026_00031_11107_0035.N1	15-APR-2004 00:39:21	Dark	82.000	80	7Del Sco	2.3160	30000.	164	11107	No
GOM_TRA_1PNPDE20040415_222400_000001072026_00044_11120_0000.N1	15-APR-2004 22:24:00	Dark	107.00	16	21Alp Sco	1.0200	3000.0	214	11120	Yes
GOM_TRA_1PNPDE20040415_222840_000000942026_00044_11120_0001.N1	15-APR-2004 22:28:40	Dark	94.000	97	8Bet1Sco	2.5610	30000.	188	11120	No
GOM_TRA_1PNPDE20040415_223130_000000712026_00044_11120_0002.N1	15-APR-2004 22:31:30	Dark	71.000	122	9Alp2Lib	2.7470	9700.0	142	11120	No
GOM_TRA_1PNPDE20040415_223334_000000452026_00044_11120_0003.N1	15-APR-2004 22:33:34	Bright	44.500	15	67Alp Vir	0.97600	28000.	89	11120	No
GOM_TRA_1PNPDE20040415_223637_000000392026_00044_11120_0004.N1	15-APR-2004 22:36:37	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	11120	No
GOM_TRA_1PNPDE20040415_224022_000000402026_00044_11120_0005.N1	15-APR-2004 22:40:22	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	11120	No
GOM_TRA_1PNPDE20040415_224320_000000342026_00044_11120_0006.N1	15-APR-2004 22:43:20	Bright	34.000	96	68Del Leo	2.5600	9300.0	68	11120	No
GOM_TRA_1PNPDE20040415_224828_000000382026_00044_11120_0007.N1	15-APR-2004 22:48:28	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	11120	No
GOM_TRA_1PNPDE20040415_224956_000000352026_00044_11120_0008.N1	15-APR-2004 22:49:56	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	11120	No
GOM_TRA_1PNPDE20040415_225221_000000342026_00044_11120_0009.N1	15-APR-2004 22:52:21	Bright	34.000	87	64Gam UMa	2.4330	11000.	68	11120	No
GOM_TRA_1PNPDE20040415_225341_000000382026_00044_11120_0010.N1	15-APR-2004 22:53:41	Bright	37.500	55	79Zet UMa	2.0600	10200.	75	11120	No
GOM_TRA_1PNPDE20040415_225952_000000402026_00044_11120_0011.N1	15-APR-2004 22:59:52	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	11120	No
GOM_TRA_1PNPDE20040415_230244_000000372026_00044_11120_0012.N1	15-APR-2004 23:02:44	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	11120	No
GOM_TRA_1PNPDE20040415_230534_000000622026_00044_11120_0013.N1	15-APR-2004 23:05:34	Bright	62.000	130	23Bet Dra	2.7990	5800.0	124	11120	No
GOM_TRA_1PNPDE20040415_230723_000000642026_00044_11120_0014.N1	15-APR-2004 23:07:23	Bright	63.500	69	33Gam Dra	2.2310	3800.0	127	11120	No
GOM_TRA_1PNPDE20040415_230959_000000402026_00044_11120_0015.N1	15-APR-2004 23:09:59	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	11120	No
GOM_TRA_1PNPDE20040415_231131_000000362026_00044_11120_0016.N1	15-APR-2004 23:11:31	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	11120	No
GOM_TRA_1PNPDE20040415_231549_000001332026_00044_11120_0017.N1	15-APR-2004 23:15:49	Bright	133.00	5	3Alp Lyr	0.033000	11000.	266	11120	No
GOM_TRA_1PNPDE20040415_231937_000000582026_00044_11120_0018.N1	15-APR-2004 23:19:37	Bright	58.000	92	53Eps Cyg	2.5000	4500.0	116	11120	No
GOM_TRA_1PNPDE20040415_232705_000000512026_00044_11120_0019.N1	15-APR-2004 23:27:05	Dark	51.000	61	8Eps Peg	2.1000	3900.0	102	11120	No
GOM_TRA_1PNPDE20040415_232933_000000472026_00044_11120_0020.N1	15-APR-2004 23:29:33	Dark	46.500	162	34Alp Aqr	2.9440	5350.0	93	11120	No
GOM_TRA_1PNPDE20040415_233213_000000492026_00044_11120_0021.N1	15-APR-2004 23:32:13	Dark	48.500	154	22Bet Aqr	2.8990	5700.0	97	11120	No
GOM_TRA_1PNPDE20040415_233408_000001312026_00044_11120_0022.N1	15-APR-2004 23:34:08	Dark	130.50	11	53Alp Aql	0.76500	8000.0	261	11120	No
GOM_TRA_1PNPDE20040415_234117_000000432026_00044_11120_0023.N1	15-APR-2004 23:41:17	Dark	43.000	63	Bet Gru	2.1500	2800.0	86	11120	No
GOM_TRA_1PNPDE20040415_234507_000000392026_00044_11120_0024.N1	15-APR-2004 23:45:07	Dark	38.500	148	Alp Tuc	2.8780	4100.0	77	11120	No
GOM_TRA_1PNPDE20040415_235219_000000672026_00045_11121_0026.N1	15-APR-2004 23:52:19	Dark	66.500	38	20Eps Sgr	1.8360	11000.	133	11121	No
GOM_TRA_1PNPDE20040415_235426_000000462026_00045_11121_0027.N1	15-APR-2004 23:54:26	Dark	46.000	147	Alp Ara	2.8770	26000.	92	11121	No
GOM_TRA_1PNPDE20040415_235612_000000622026_00045_11121_0028.N1	15-APR-2004 23:56:12	Dark	61.500	25	35Lam Sco	1.6200	28000.	123	11121	No
GOM_TRA_1PNPDE20040415_235843_000000442026_00045_11121_0029.N1	15-APR-2004 23:58:43	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	11121	No

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





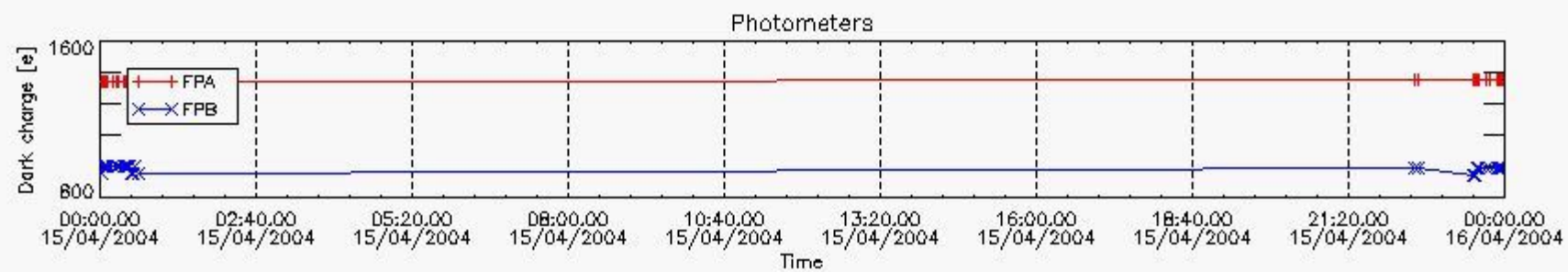
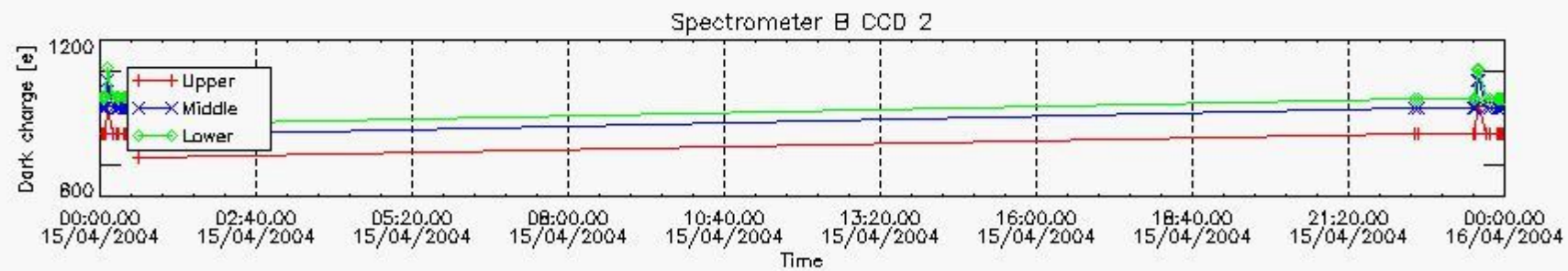
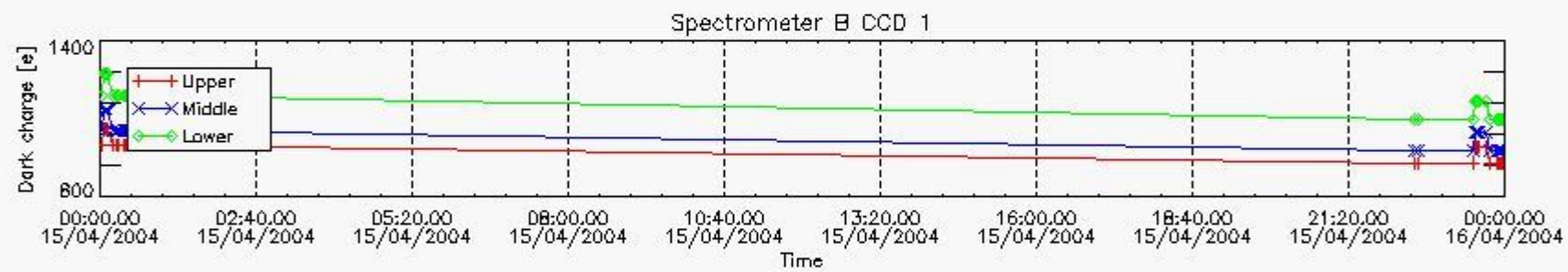
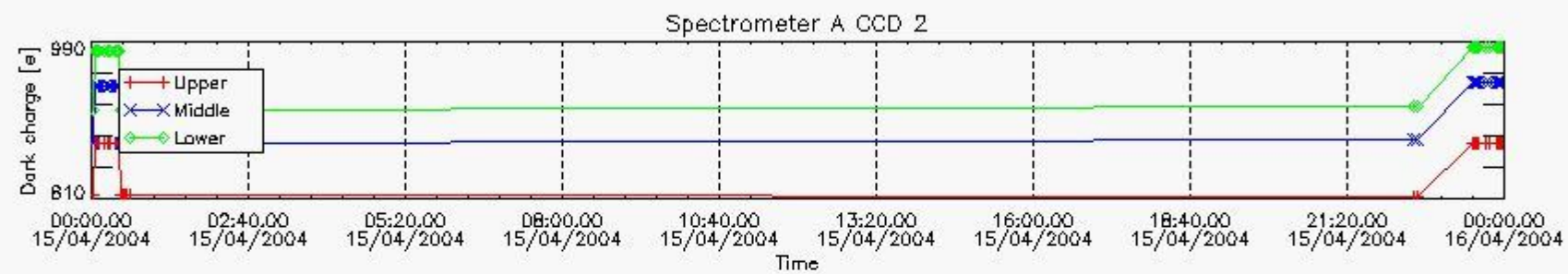
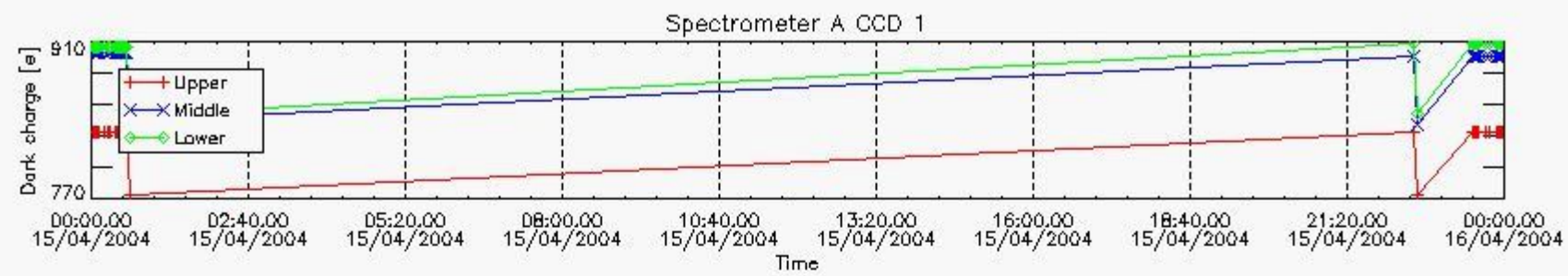
4. Overview of dark signal processing per product

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

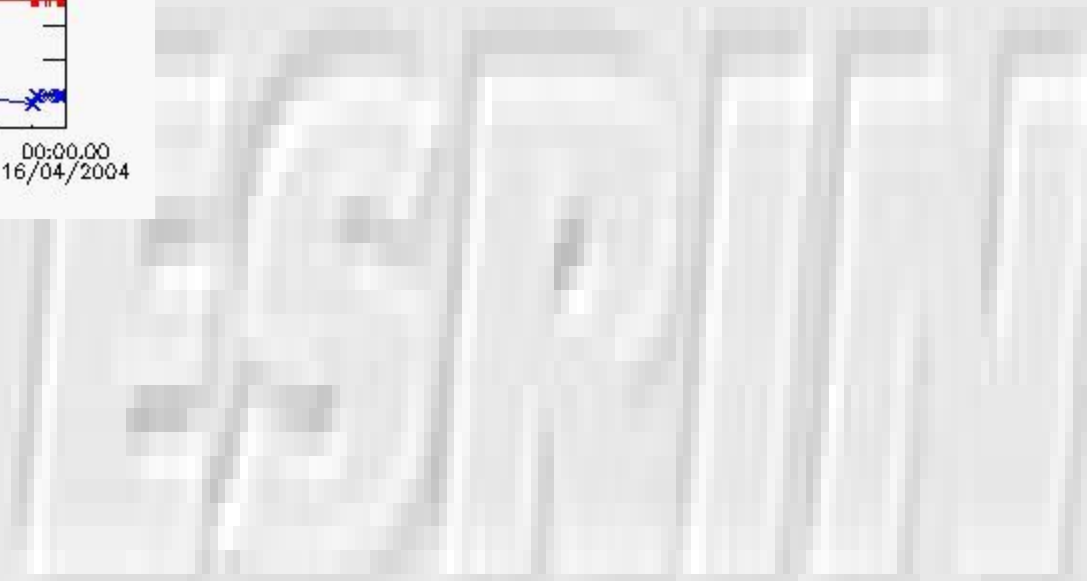
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



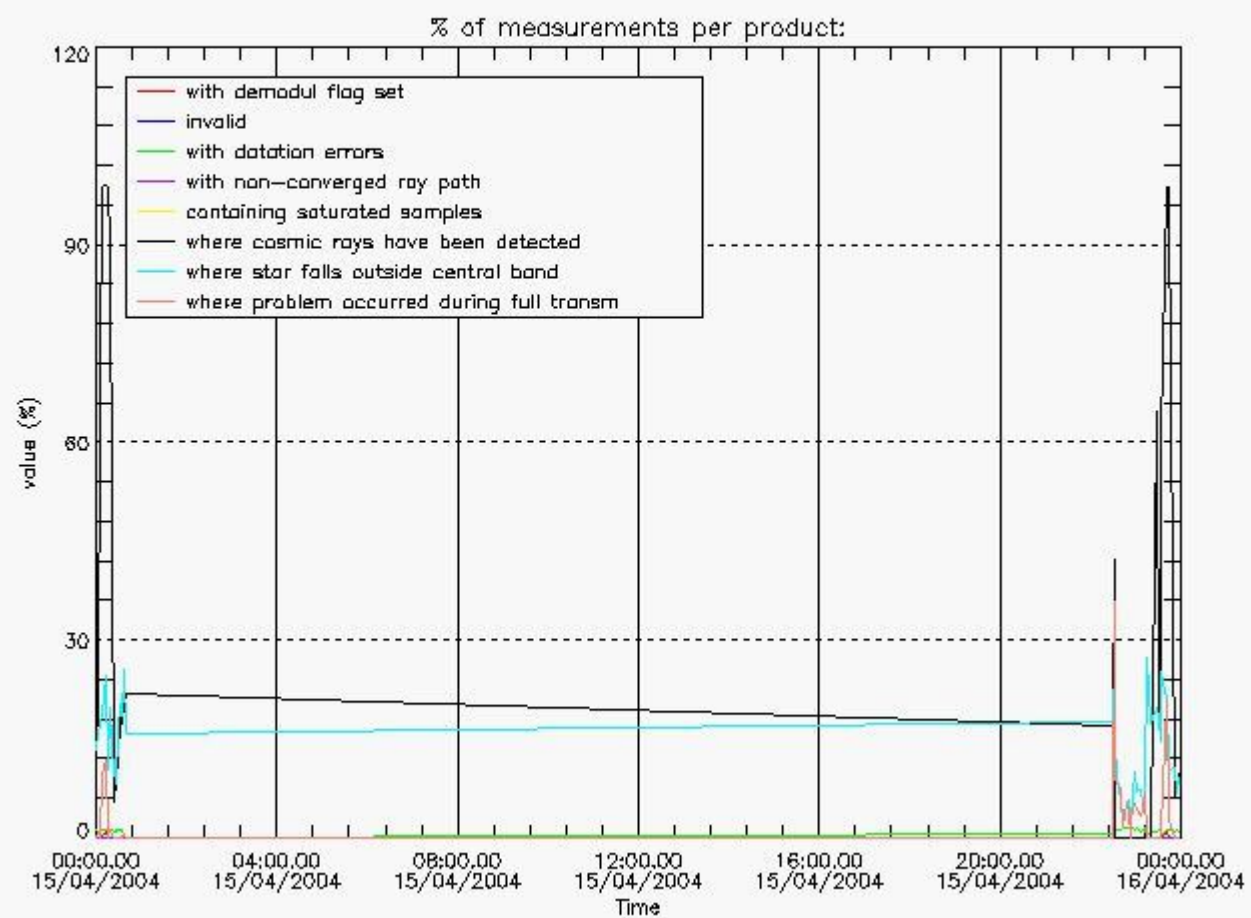
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.6047 %
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



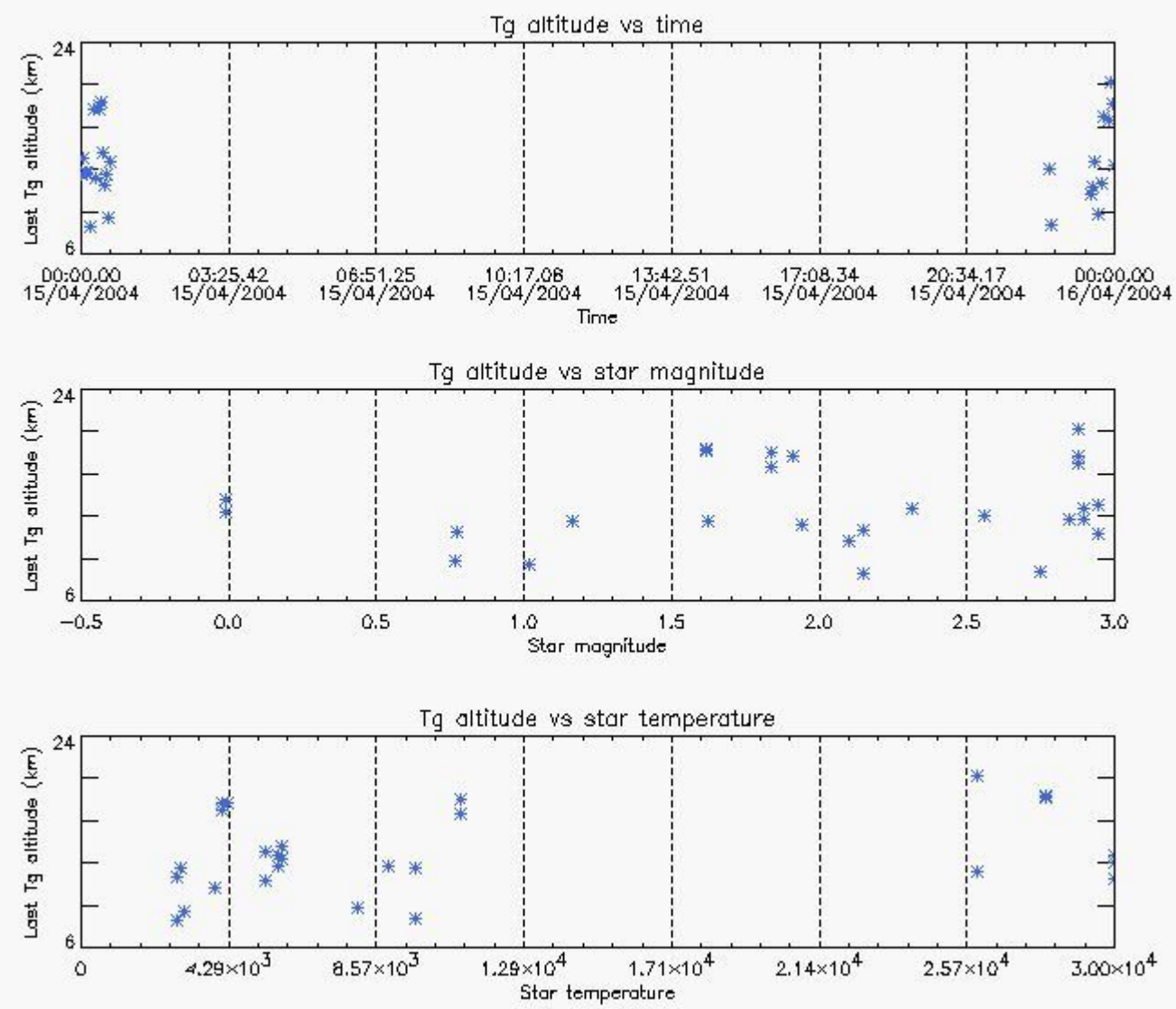
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

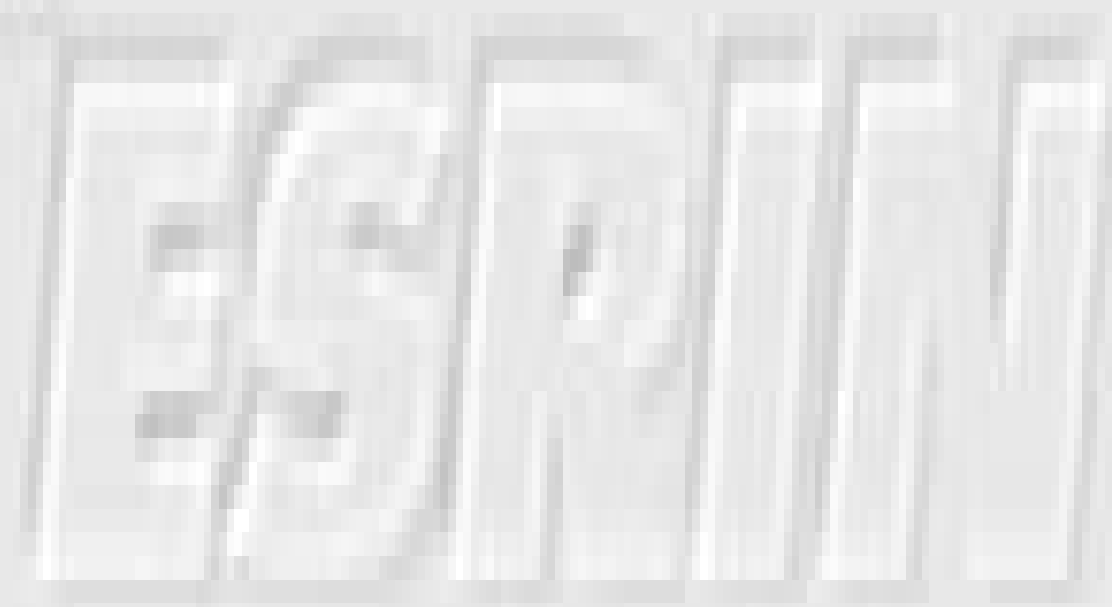
Statistics	DARK	BRIGHT
Mean:	13.979	20.094
St. deviation:	3.4784	4.6014
Maximum:	20.646	26.139
Minimum:	8.2792	8.5001
Number of data:	27.000	16.000

6.2 Plot for DARK limb products

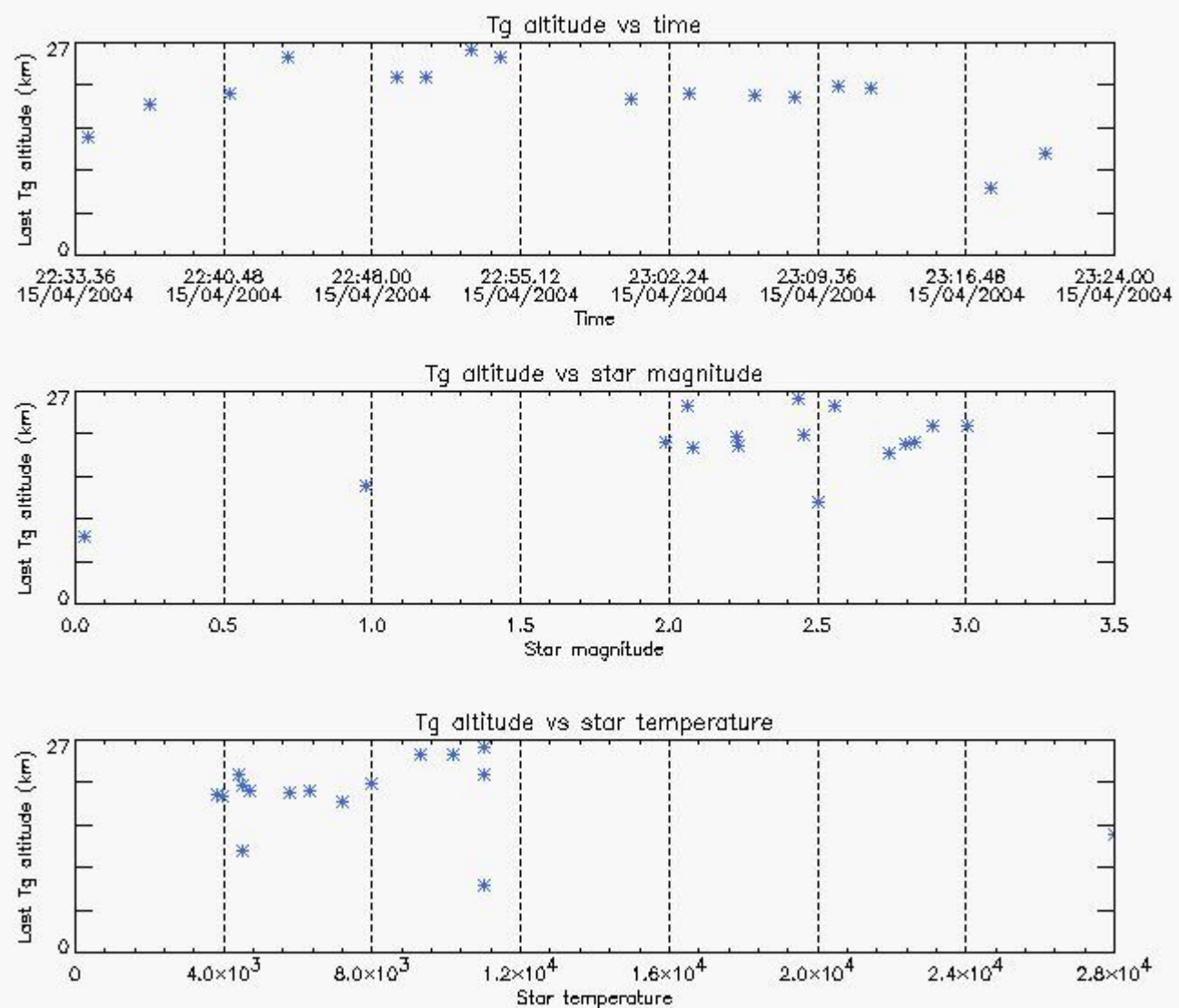
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



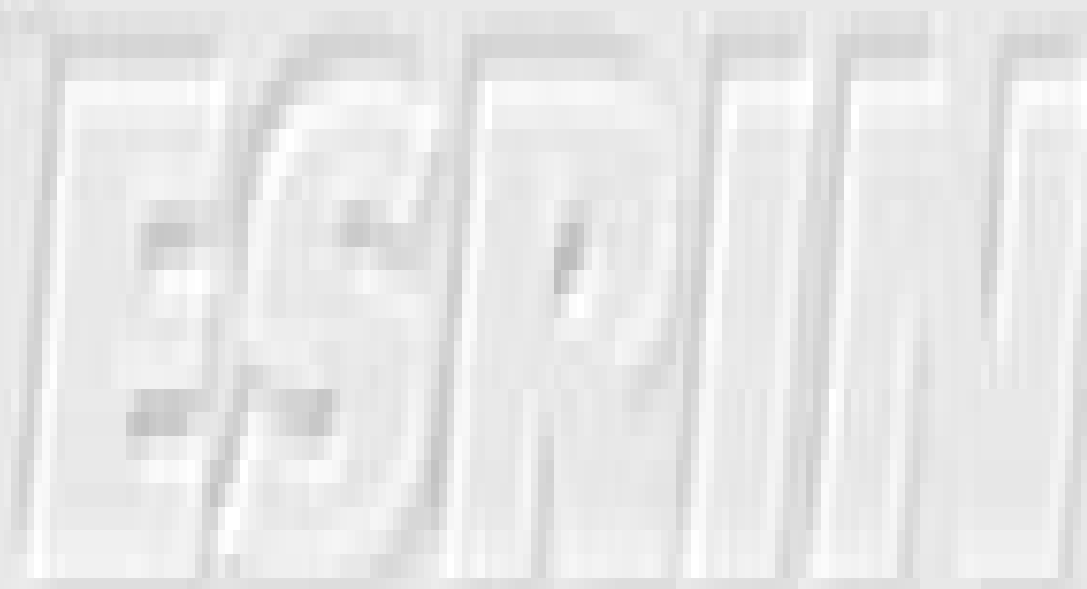
Tangent altitude at which the star is lost



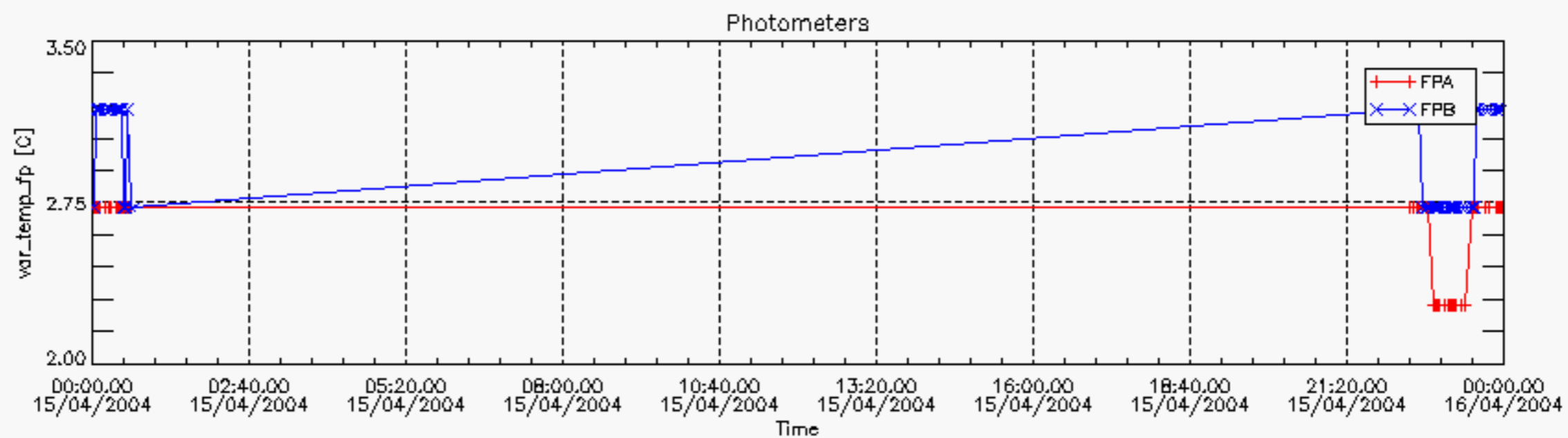
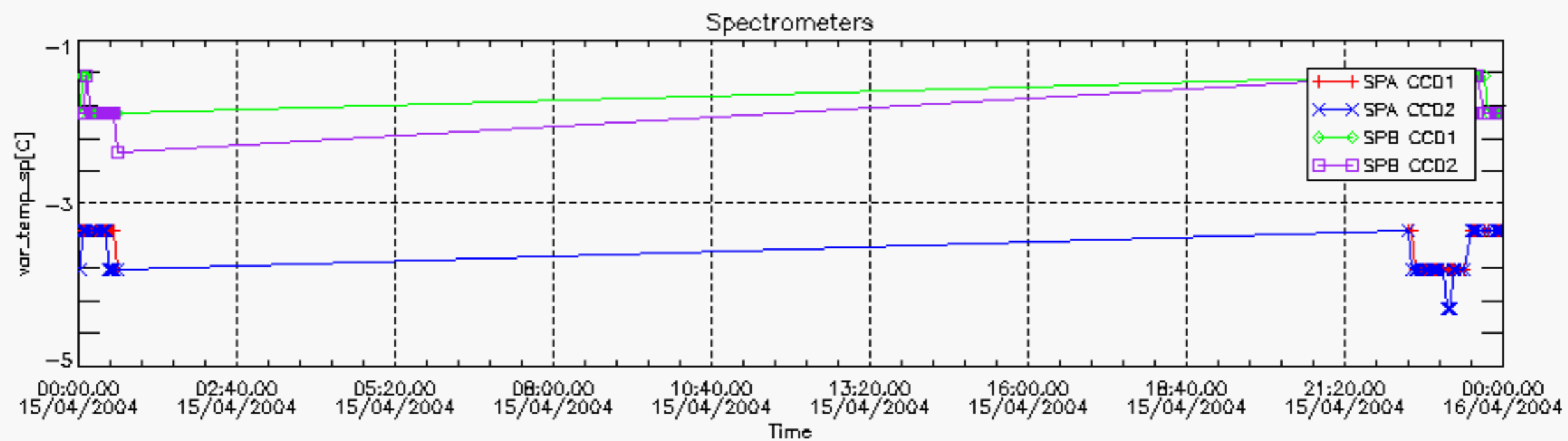
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

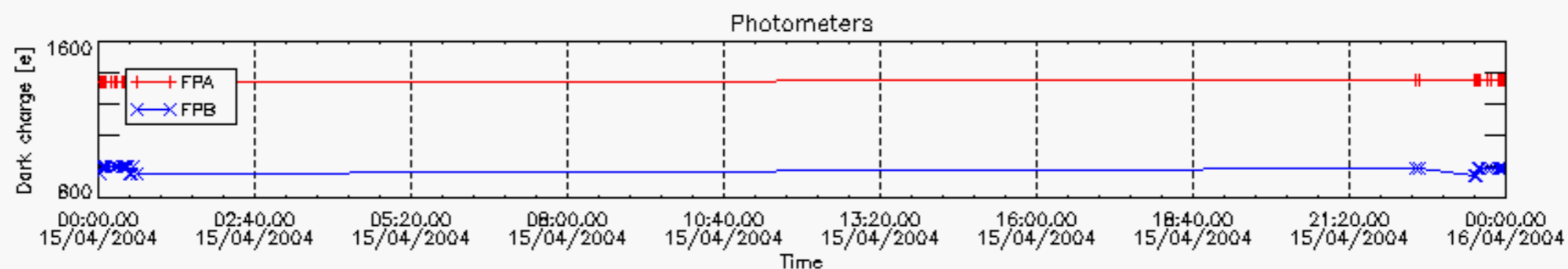
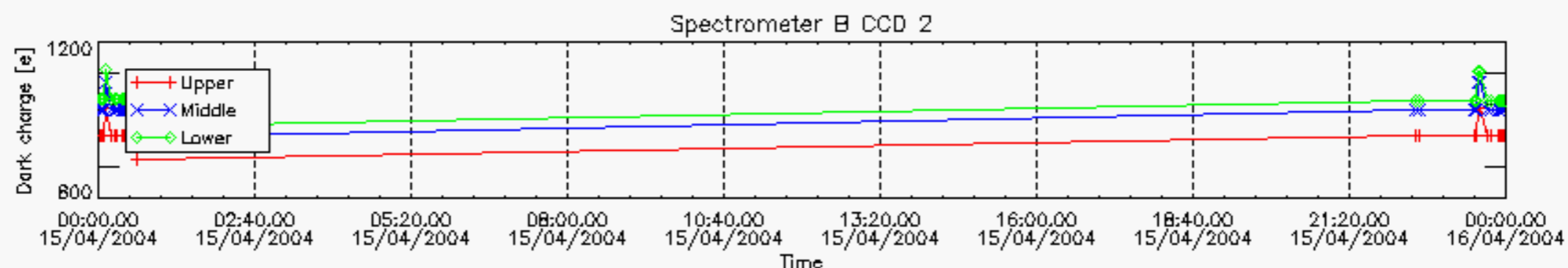
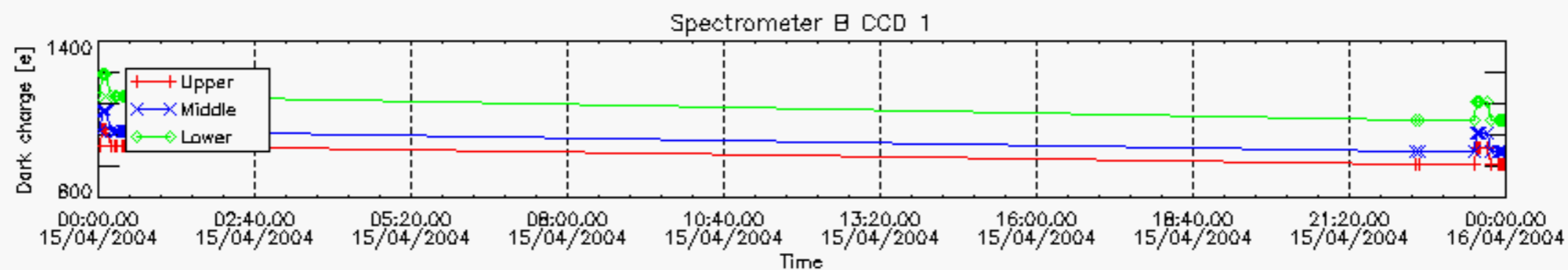
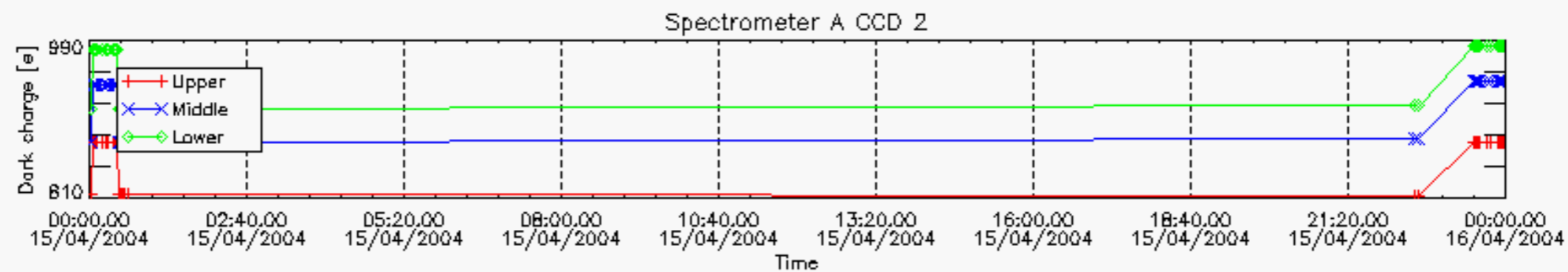
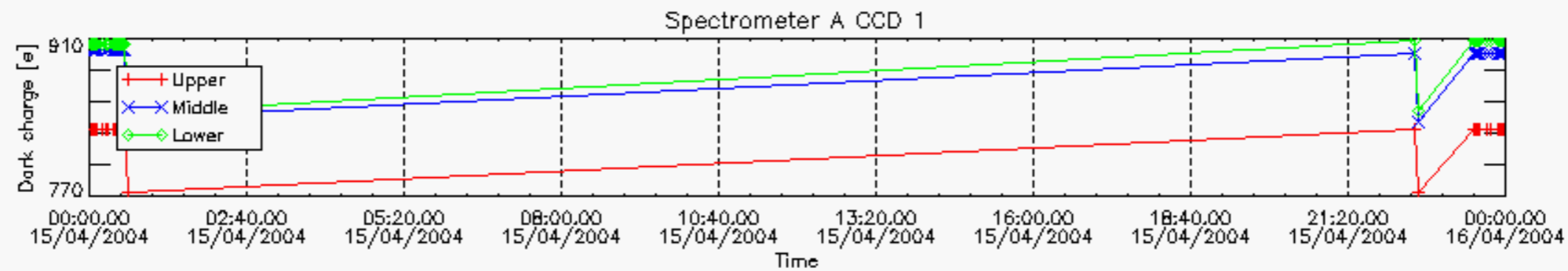
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

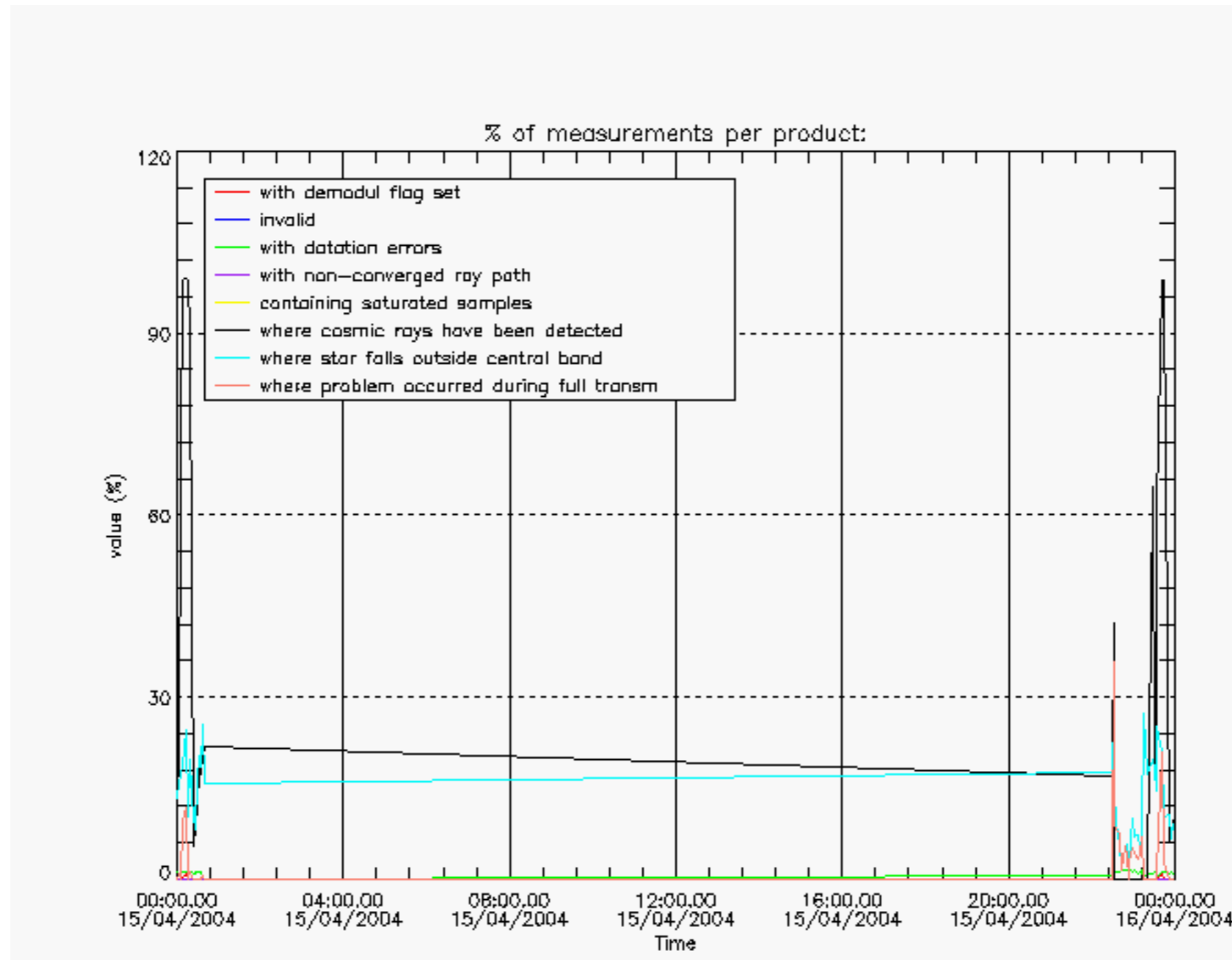
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.7	1448.2	1461.9	1447.6
St. deviation:	4.5293	5.3403	6.8475	7.9208
Maximum:	1497.0	1536.0	1510.0	1508.0
Minimum:	1452.0	1430.0	1447.0	1416.0
Number of data:	35250.	35250.	17600.	17600.



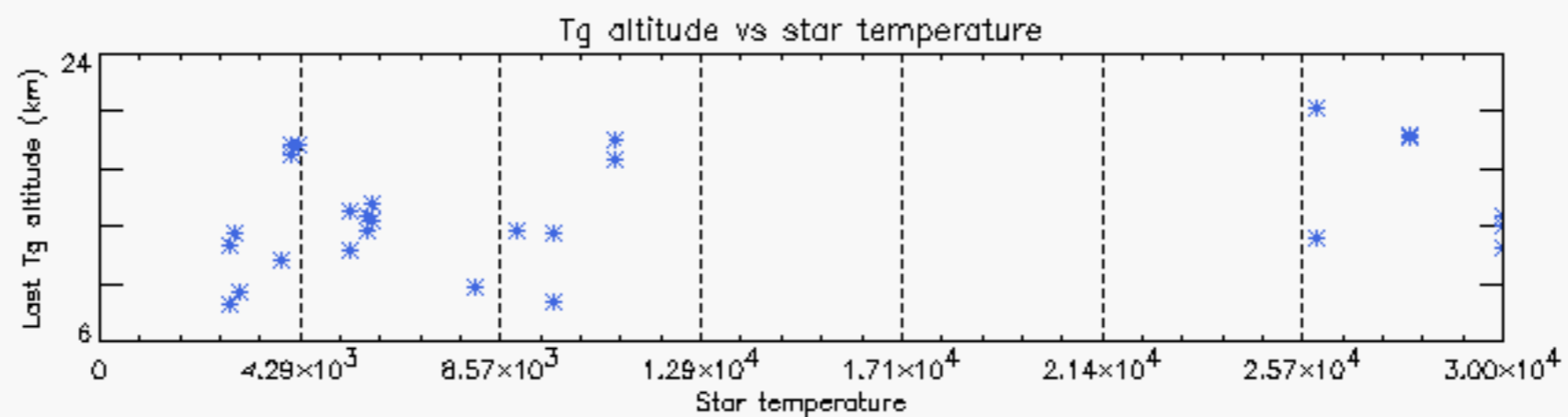
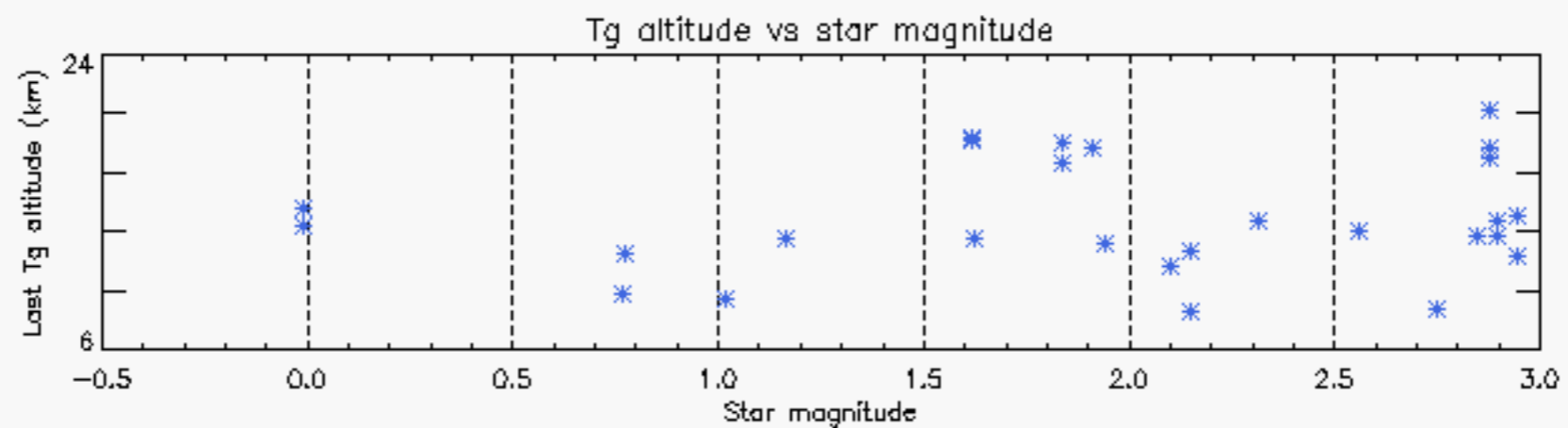
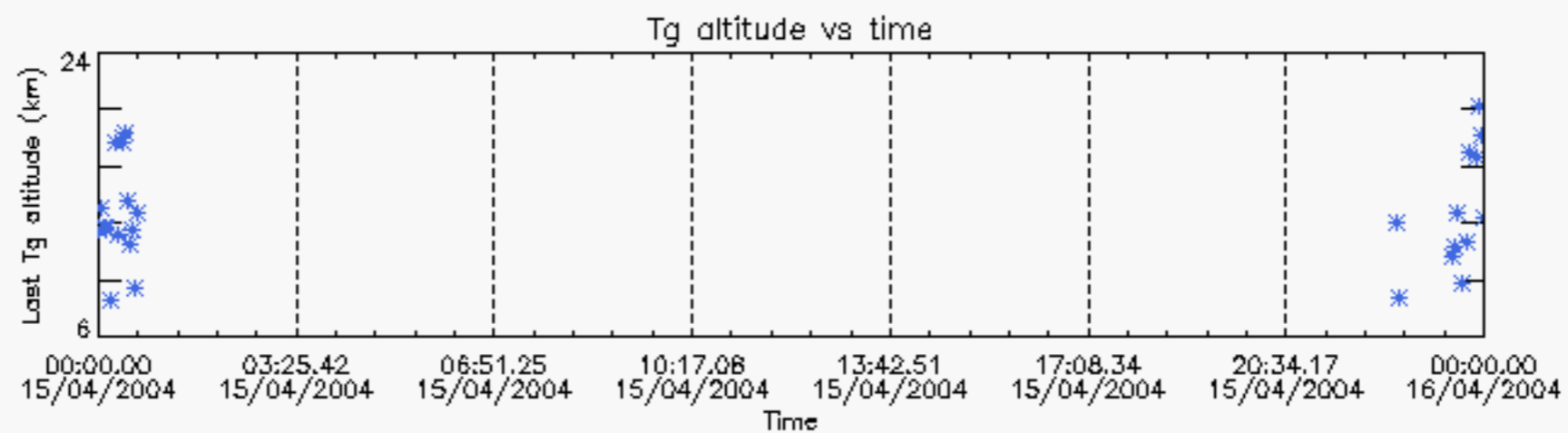




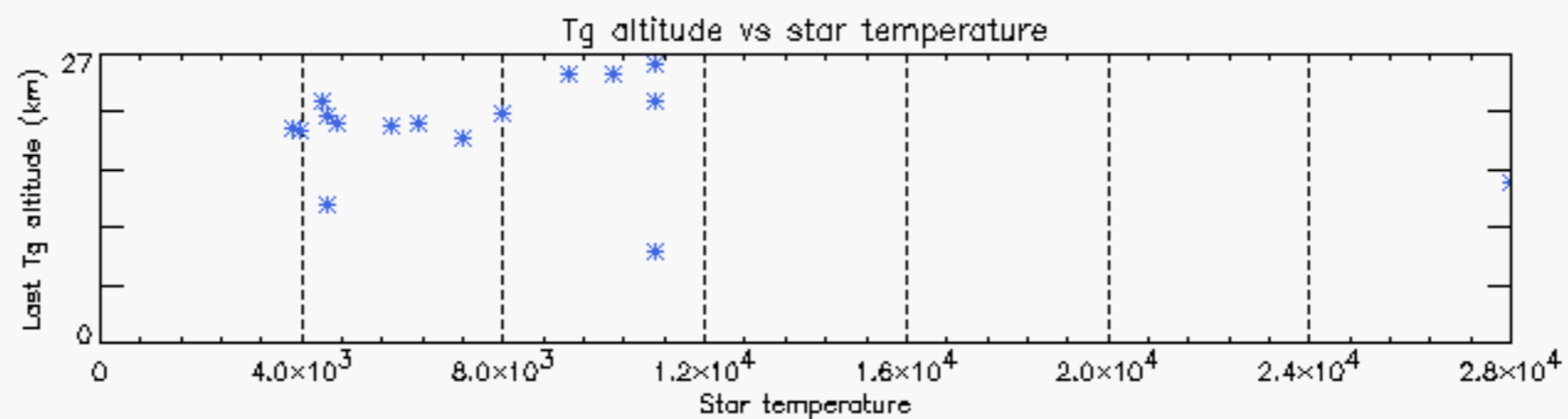
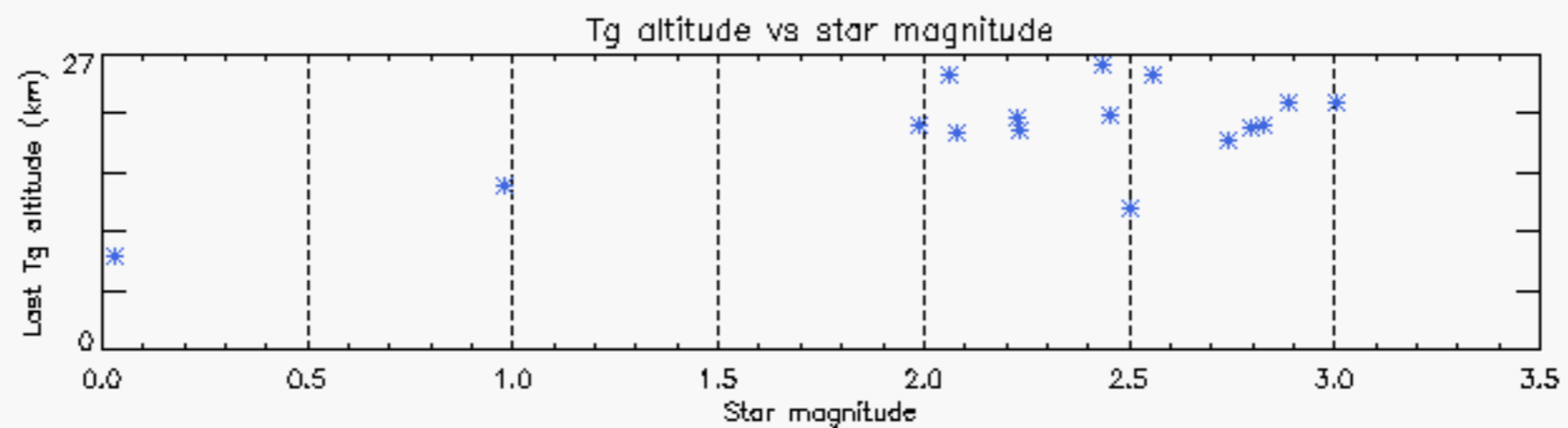
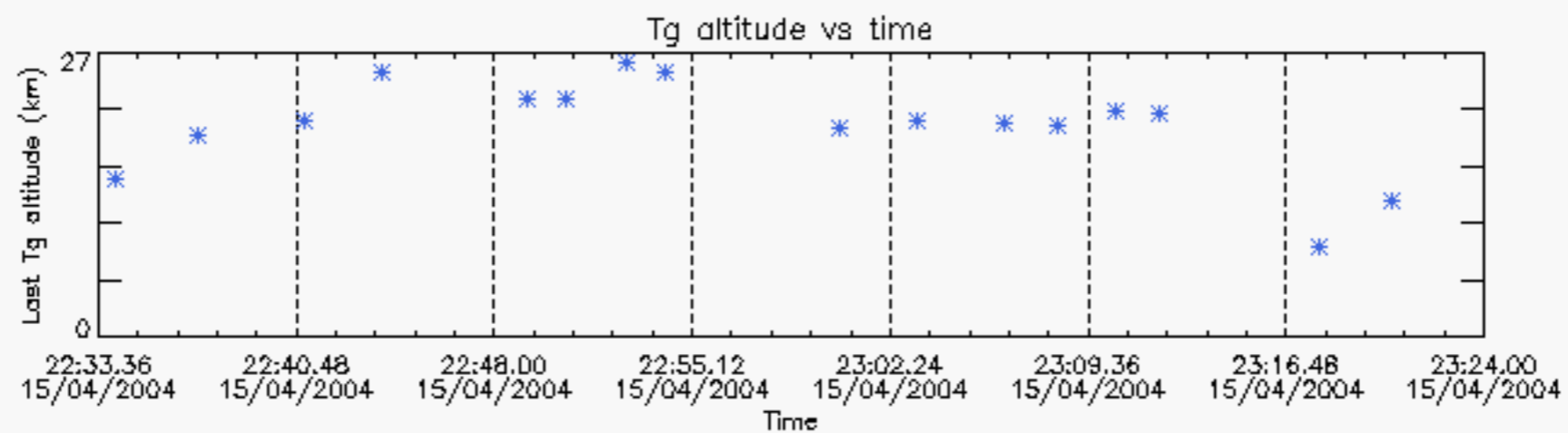




Tangent altitude at which the star is lost



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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 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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