

GOMOS Daily Report 26-APR-2004

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

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

[2.2 Level 1 products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[7. Statistics on SATU Noise Equivalent Angle](#)

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	27APR2004 04:02:56
Data source version	GOMOS/4.02
Start time of products	26-APR-2004 (26APR2004 00:00:00)
Stop time of products	27-APR-2004 (27APR2004 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

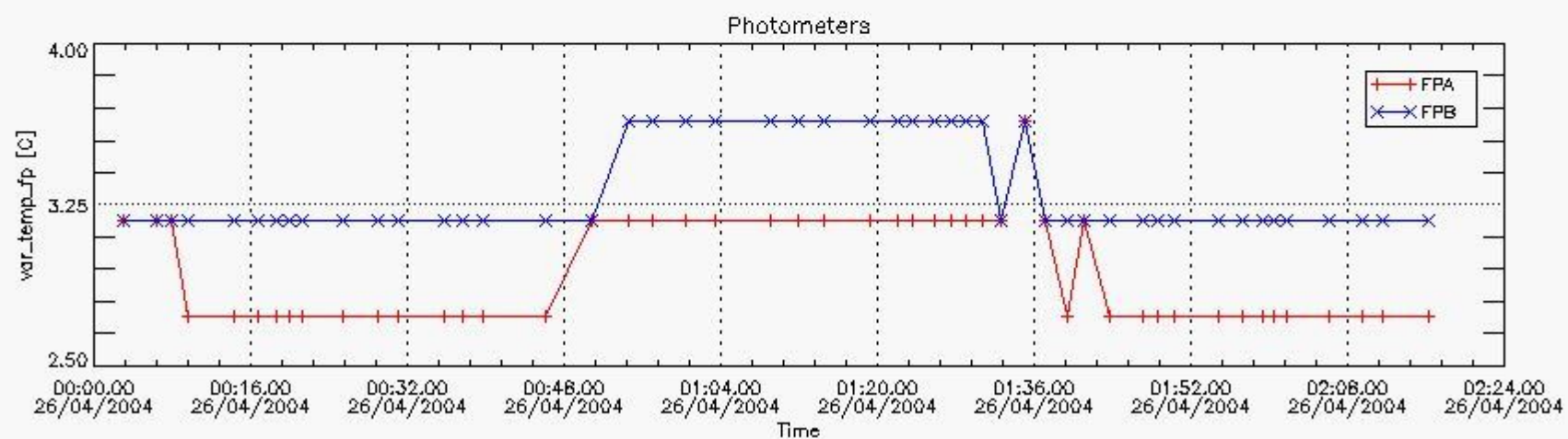
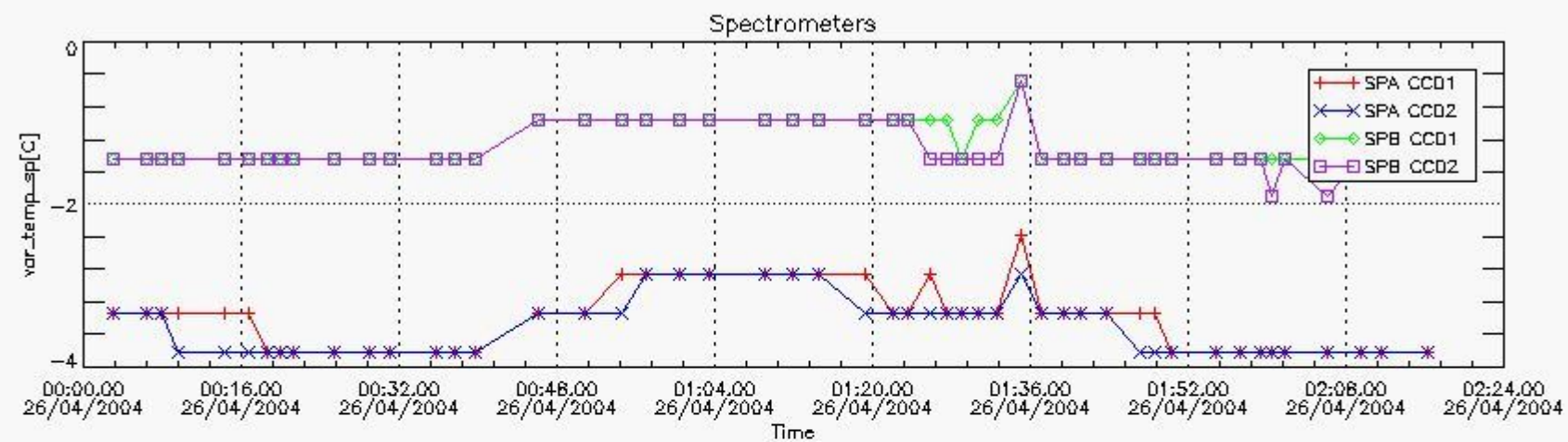
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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_1PNPDE20040426_000301_000000382026_00188_11264_0002.N1	26-APR-2004 00:03:01	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	11264	No
GOM_TRA_1PNPDE20040426_000628_000000382026_00188_11264_0003.N1	26-APR-2004 00:06:28	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	11264	No
GOM_TRA_1PNPDE20040426_000759_000000362026_00188_11264_0004.N1	26-APR-2004 00:07:59	Bright	36.000	62	94Bet Leo	2.1360	9700.0	72	11264	No
GOM_TRA_1PNPDE20040426_000941_000000492026_00188_11264_0005.N1	26-APR-2004 00:09:41	Bright	49.000	3	16Alp Boo	-0.050000	4250.0	98	11264	No
GOM_TRA_1PNPDE20040426_001417_000000382026_00188_11264_0006.N1	26-APR-2004 00:14:17	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11264	No
GOM_TRA_1PNPDE20040426_001640_000000382026_00188_11264_0007.N1	26-APR-2004 00:16:40	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	11264	No
GOM_TRA_1PNPDE20040426_001839_000000372026_00188_11264_0008.N1	26-APR-2004 00:18:39	Bright	36.500	87	64Gam UMa	2.4330	11000.	73	11264	No
GOM_TRA_1PNPDE20040426_001954_000000372026_00188_11264_0009.N1	26-APR-2004 00:19:54	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	11264	No
GOM_TRA_1PNPDE20040426_002116_000000392026_00188_11264_0010.N1	26-APR-2004 00:21:16	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	11264	No
GOM_TRA_1PNPDE20040426_002528_000000382026_00188_11264_0011.N1	26-APR-2004 00:25:28	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	11264	No
GOM_TRA_1PNPDE20040426_002859_000000372026_00188_11264_0012.N1	26-APR-2004 00:28:59	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	11264	No
GOM_TRA_1PNPDE20040426_003103_000000642026_00188_11264_0013.N1	26-APR-2004 00:31:03	Bright	63.500	69	33Gam Dra	2.2310	3800.0	127	11264	No
GOM_TRA_1PNPDE20040426_003541_000000442026_00188_11264_0014.N1	26-APR-2004 00:35:41	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	11264	No
GOM_TRA_1PNPDE20040426_003735_000000422026_00188_11264_0015.N1	26-APR-2004 00:37:35	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	11264	No
GOM_TRA_1PNPDE20040426_003938_000001532026_00188_11264_0016.N1	26-APR-2004 00:39:38	Bright	152.50	5	3Alp Lyr	0.033000	11000.	305	11264	No
GOM_TRA_1PNPDE20040426_004602_000000732026_00188_11264_0017.N1	26-APR-2004 00:46:02	Dark	72.500	92	53Eps Cyg	2.5000	4500.0	145	11264	No
GOM_TRA_1PNPDE20040426_005048_000000452026_00188_11264_0018.N1	26-APR-2004 00:50:48	Dark	45.000	90	54Alp Peg	2.4870	11000.	90	11264	No
GOM_TRA_1PNPDE20040426_005436_000000702026_00188_11264_0019.N1	26-APR-2004 00:54:36	Dark	70.000	61	8Eps Peg	2.1000	3900.0	140	11264	No
GOM_TRA_1PNPDE20040426_005704_000000542026_00188_11264_0020.N1	26-APR-2004 00:57:04	Dark	54.000	162	34Alp Aqr	2.9440	5350.0	108	11264	No
GOM_TRA_1PNPDE20040426_010021_000000612026_00188_11264_0021.N1	26-APR-2004 01:00:21	Dark	61.000	154	22Bet Aqr	2.8990	5700.0	122	11264	No
GOM_TRA_1PNPDE20040426_010327_000000432026_00188_11264_0022.N1	26-APR-2004 01:03:27	Dark	43.000	18	24Alp PsA	1.1660	9700.0	86	11264	No
GOM_TRA_1PNPDE20040426_010907_000000462026_00188_11264_0023.N1	26-APR-2004 01:09:07	Dark	46.000	31	Alp Gru	1.7340	15200.	92	11264	No
GOM_TRA_1PNPDE20040426_011157_000000442026_00188_11264_0024.N1	26-APR-2004 01:11:57	Dark	43.500	148	Alp Tuc	2.8780	4100.0	87	11264	No
GOM_TRA_1PNPDE20040426_011429_000000442026_00189_11265_0025.N1	26-APR-2004 01:14:29	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11265	No
GOM_TRA_1PNPDE20040426_011910_000000742026_00189_11265_0026.N1	26-APR-2004 01:19:10	Dark	73.500	103	38Zet Sgr	2.6000	9700.0	147	11265	No
GOM_TRA_1PNPDE20040426_012204_000000462026_00189_11265_0027.N1	26-APR-2004 01:22:04	Dark	46.000	141	Bet Ara	2.8400	4600.0	92	11265	No
GOM_TRA_1PNPDE20040426_012337_000000682026_00189_11265_0028.N1	26-APR-2004 01:23:37	Dark	68.000	40	The Sco	1.8590	7100.0	136	11265	No
GOM_TRA_1PNPDE20040426_012544_000000482026_00189_11265_0029.N1	26-APR-2004 01:25:44	Dark	48.000	4	Alp1Cen	-0.010000	5800.0	96	11265	No
GOM_TRA_1PNPDE20040426_012728_000000422026_00189_11265_0030.N1	26-APR-2004 01:27:28	Dark	42.000	20	Bet Cru	1.2530	30000.	84	11265	No
GOM_TRA_1PNPDE20040426_012905_000000432026_00189_11265_0031.N1	26-APR-2004 01:29:05	Dark	42.500	78	Alp Lup	2.3040	28000.	85	11265	No
GOM_TRA_1PNPDE20040426_013038_000000452026_00189_11265_0032.N1	26-APR-2004 01:30:38	Dark	45.000	81	Eta Cen	2.3560	28000.	90	11265	No
GOM_TRA_1PNPDE20040426_013239_000000852026_00189_11265_0033.N1	26-APR-2004 01:32:39	Dark	85.000	16	21Alp Sco	1.0200	3000.0	170	11265	No
GOM_TRA_1PNPDE20040426_013508_000000712026_00189_11265_0000.N1	26-APR-2004 01:35:08	Dark	70.500	80	7Del Sco	2.3160	30000.	141	11265	Yes
GOM_TRA_1PNPDE20040426_013711_000000432026_00189_11265_0001.N1	26-APR-2004 01:37:11	Dark	43.000	169	46Gam Hya	2.9910	4700.0	86	11265	No
GOM_TRA_1PNPDE20040426_013924_000000392026_00189_11265_0002.N1	26-APR-2004 01:39:24	Bright	38.500	100	4Gam Crv	2.5800	13100.	77	11265	No
GOM_TRA_1PNPDE20040426_014104_000000552026_00189_11265_0003.N1	26-APR-2004 01:41:04	Bright	54.500	104	27Bet Lib	2.6140	13100.	109	11265	No
GOM_TRA_1PNPDE20040426_014337_000000382026_00189_11265_0004.N1	26-APR-2004 01:43:37	Bright	38.000	121	29Gam Vir	2.7400	7200.0	76	11265	No
GOM_TRA_1PNPDE20040426_014703_000000382026_00189_11265_0005.N1	26-APR-2004 01:47:03	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	11265	No
GOM_TRA_1PNPDE20040426_014835_000000372026_00189_11265_0006.N1	26-APR-2004 01:48:35	Bright	37.000	62	94Bet Leo	2.1360	9700.0	74	11265	No
GOM_TRA_1PNPDE20040426_015017_000000452026_00189_11265_0007.N1	26-APR-2004 01:50:17	Bright	44.500	3	16Alp Boo	-0.050000	4250.0	89	11265	No
GOM_TRA_1PNPDE20040426_015453_000000372026_00189_11265_0008.N1	26-APR-2004 01:54:53	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	11265	No
GOM_TRA_1PNPDE20040426_015716_000000372026_00189_11265_0009.N1	26-APR-2004 01:57:16	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	11265	No
GOM_TRA_1PNPDE20040426_015915_000000352026_00189_11265_0010.N1	26-APR-2004 01:59:15	Bright	34.500	87	64Gam UMa	2.4330	11000.	69	11265	No
GOM_TRA_1PNPDE20040426_020029_000000362026_00189_11265_0011.N1	26-APR-2004 02:00:29	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	11265	No
GOM_TRA_1PNPDE20040426_020152_000000392026_00189_11265_0012.N1	26-APR-2004 02:01:52	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	11265	No
GOM_TRA_1PNPDE20040426_020604_000000412026_00189_11265_0013.N1	26-APR-2004 02:06:04	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	11265	No
GOM_TRA_1PNPDE20040426_020934_000000382026_00189_11265_0014.N1	26-APR-2004 02:09:34	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	11265	No
GOM_TRA_1PNPDE20040426_021138_000000632026_00189_11265_0015.N1	26-APR-2004 02:11:38	Bright	63.000	69	33Gam Dra	2.2310	3800.0	126	11265	No
GOM_TRA_1PNPDE20040426_021616_000000442026_00189_11265_0016.N1	26-APR-2004 02:16:16	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	11265	No

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



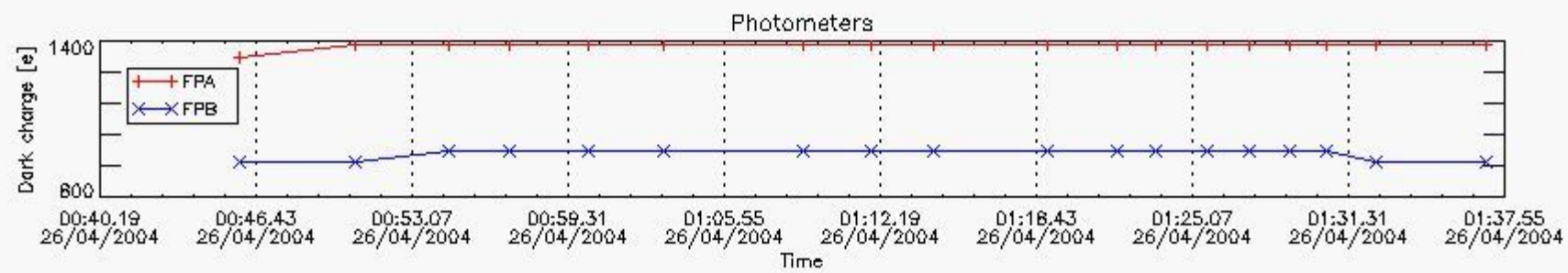
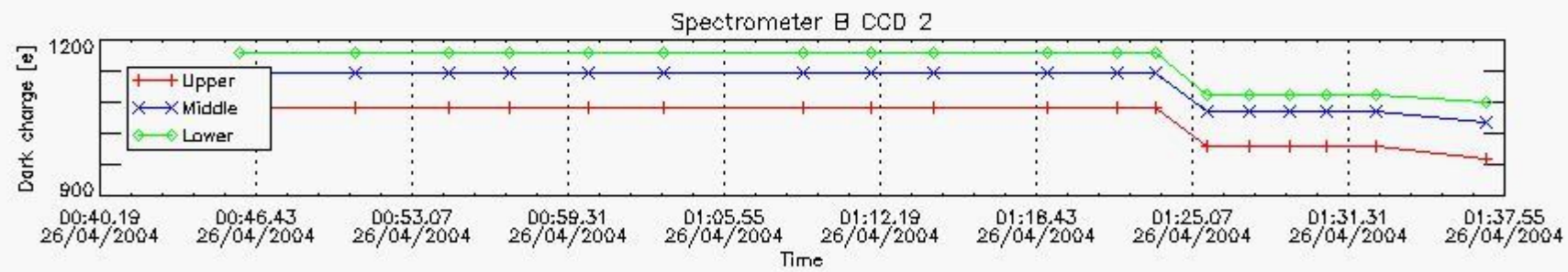
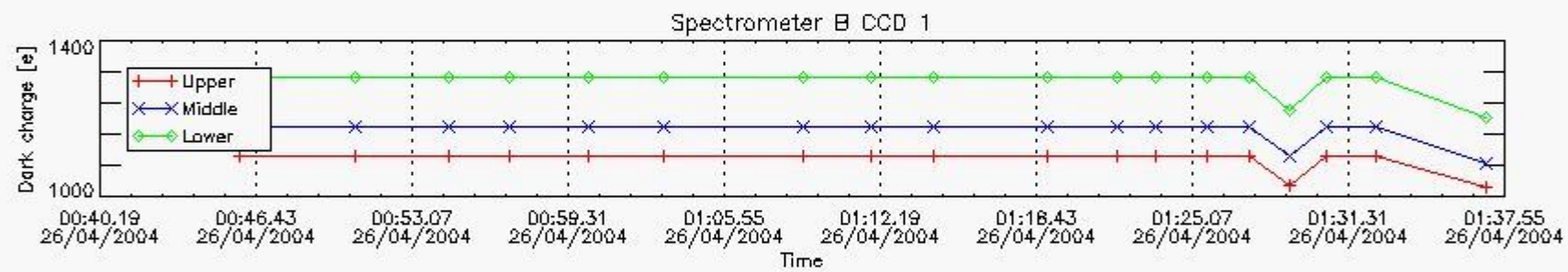
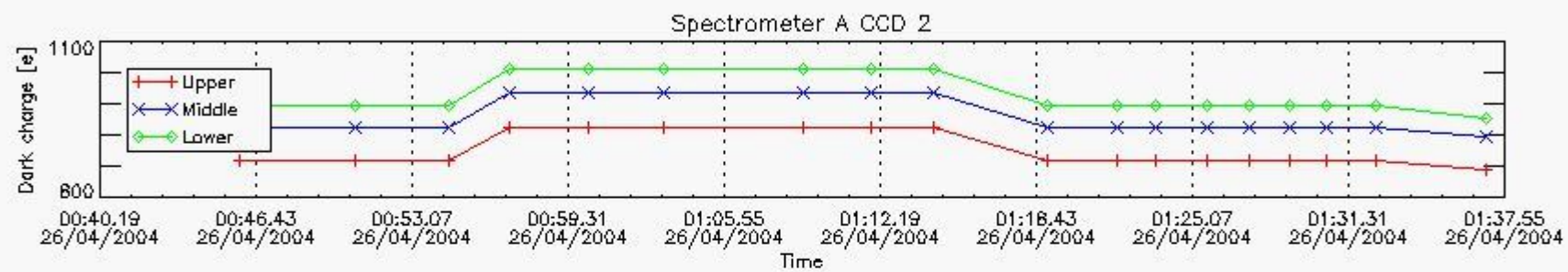
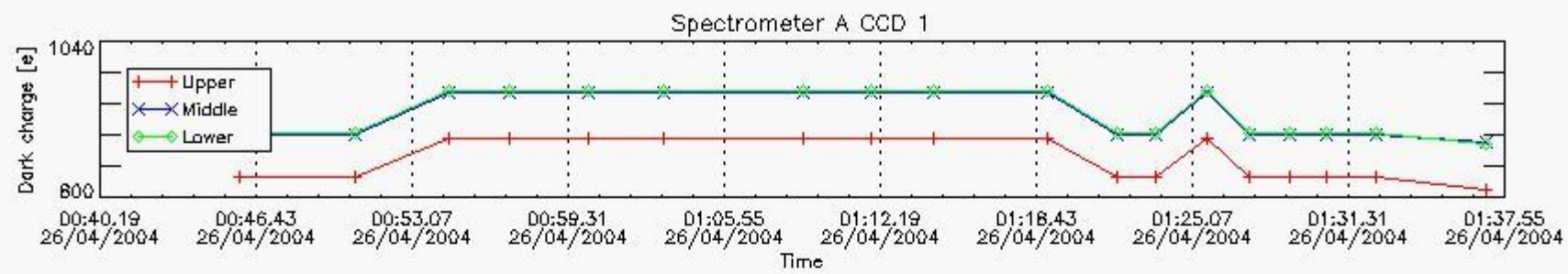
4. Overview of dark signal processing per product

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

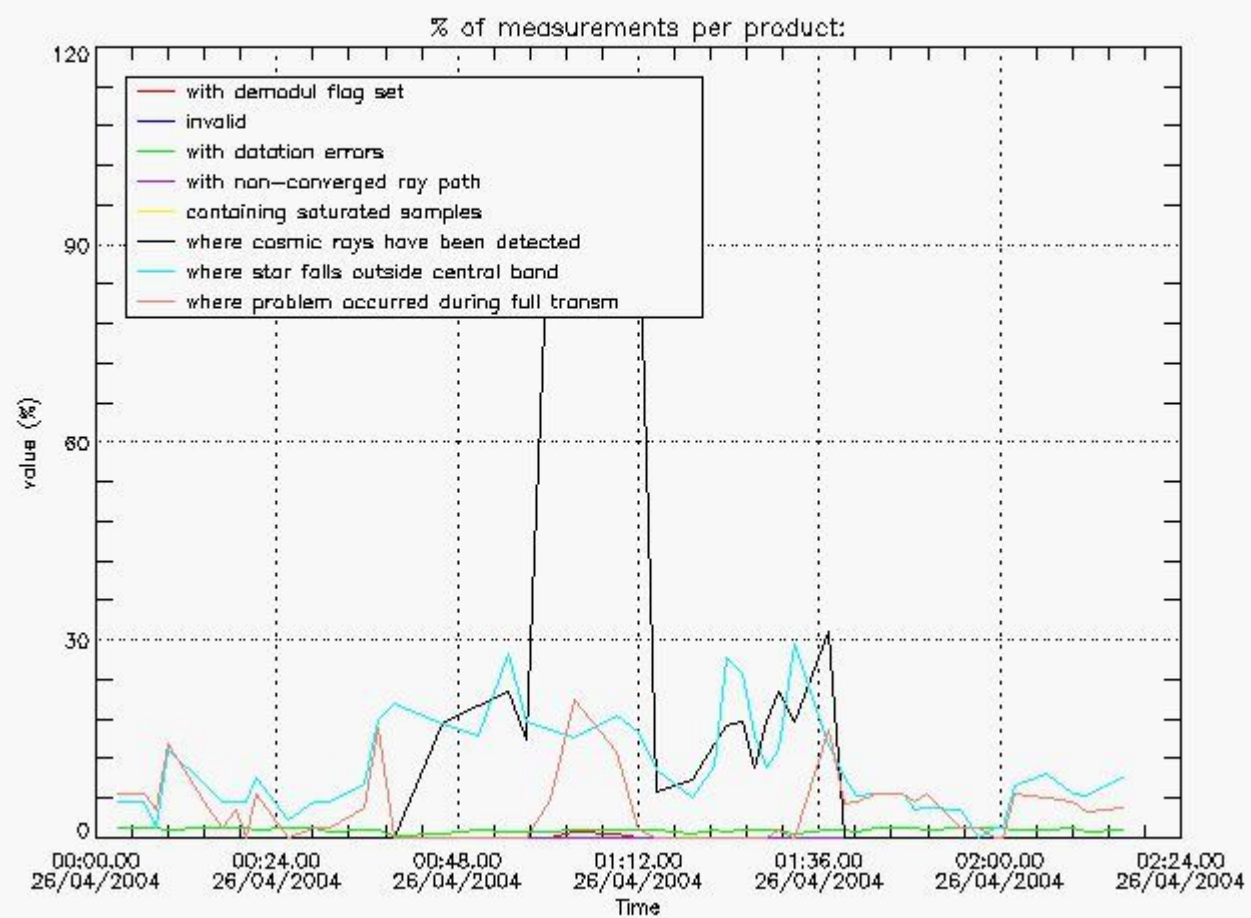


5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.4167 %
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



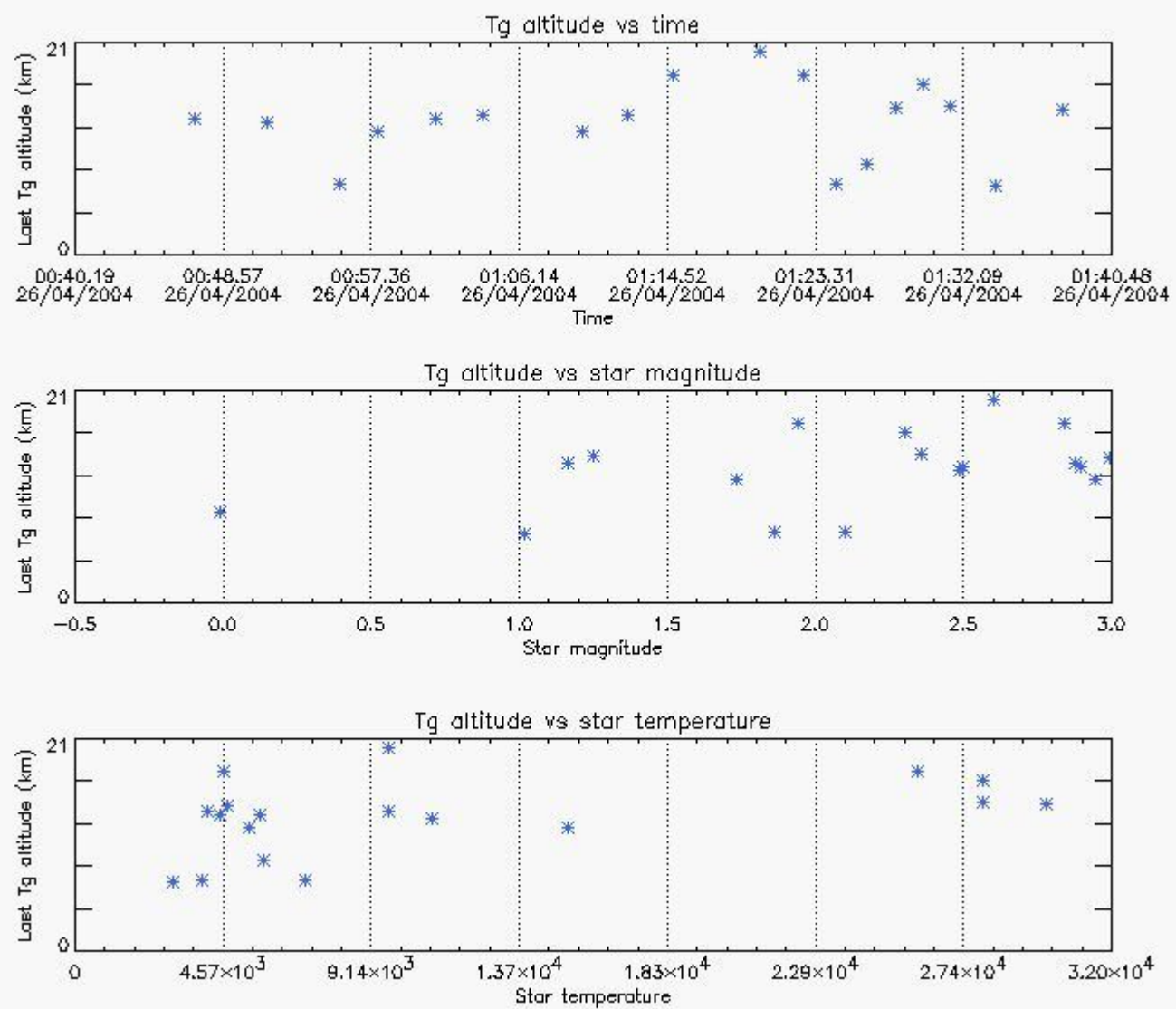
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.211	20.744
St. deviation:	3.7995	3.1430
Maximum:	20.046	26.870
Minimum:	6.7576	12.630
Number of data:	18.000	30.000

6.2 Plot for DARK limb products

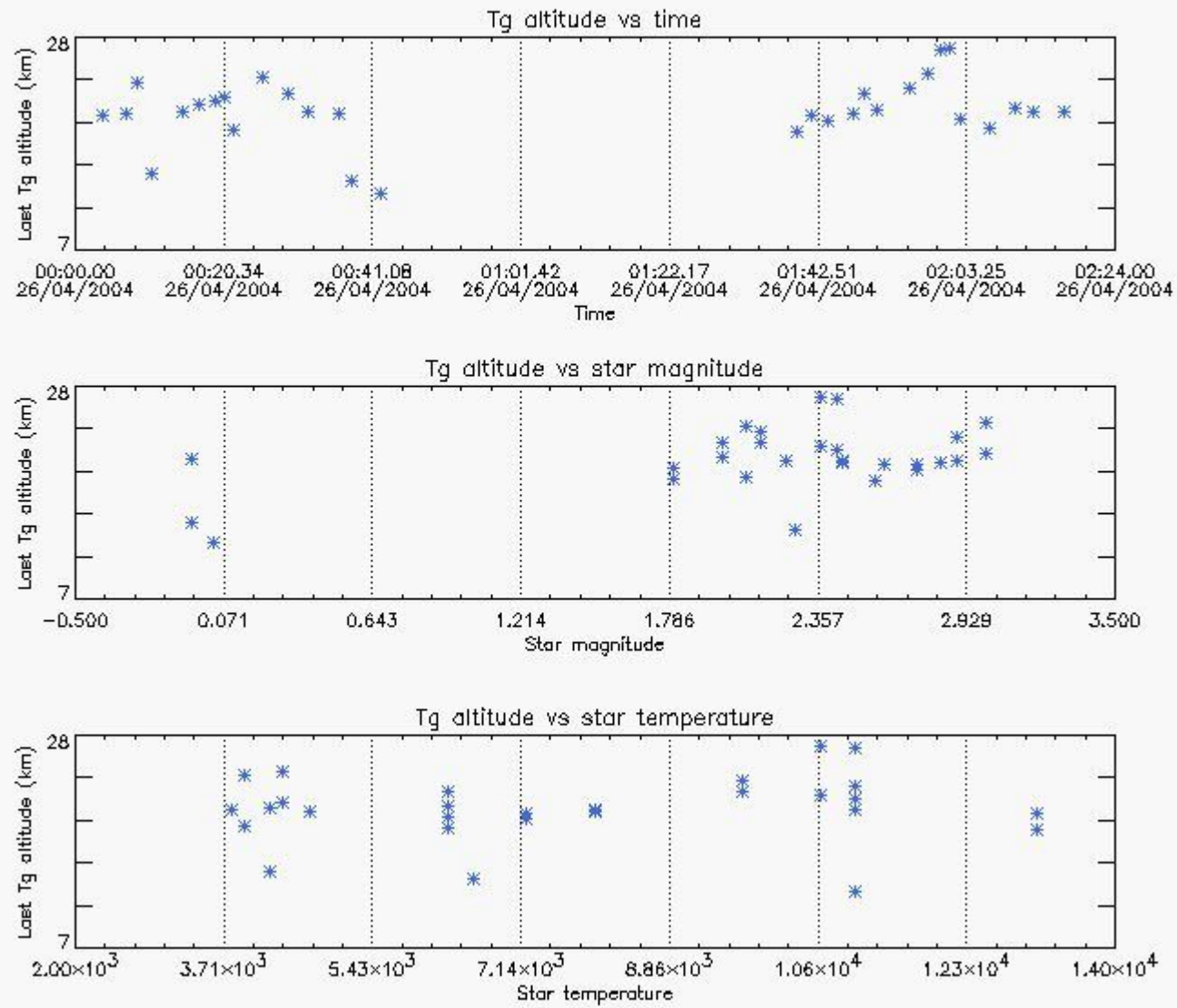
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



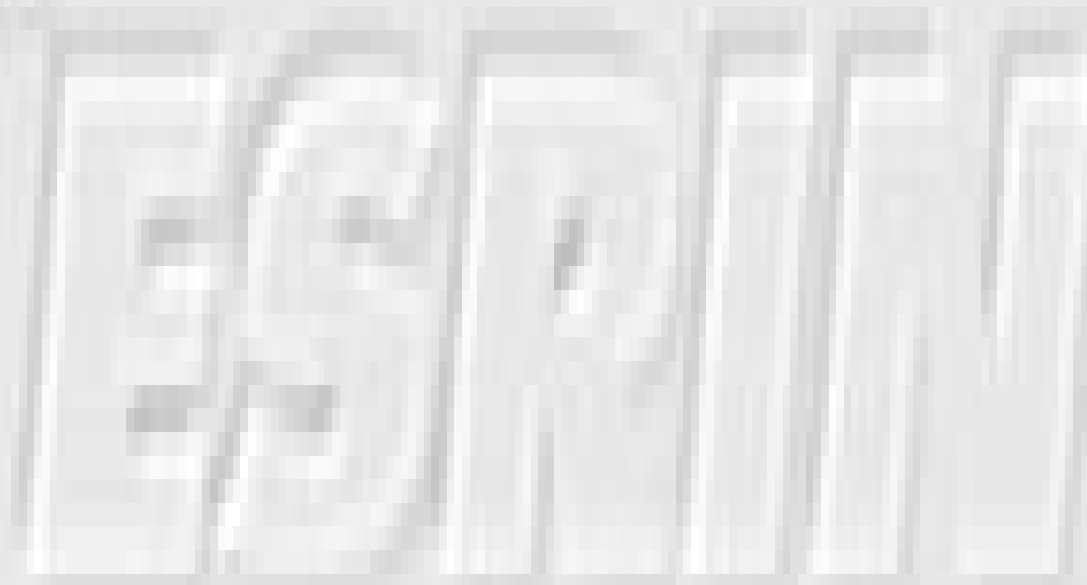
Tangent altitude at which the star is lost



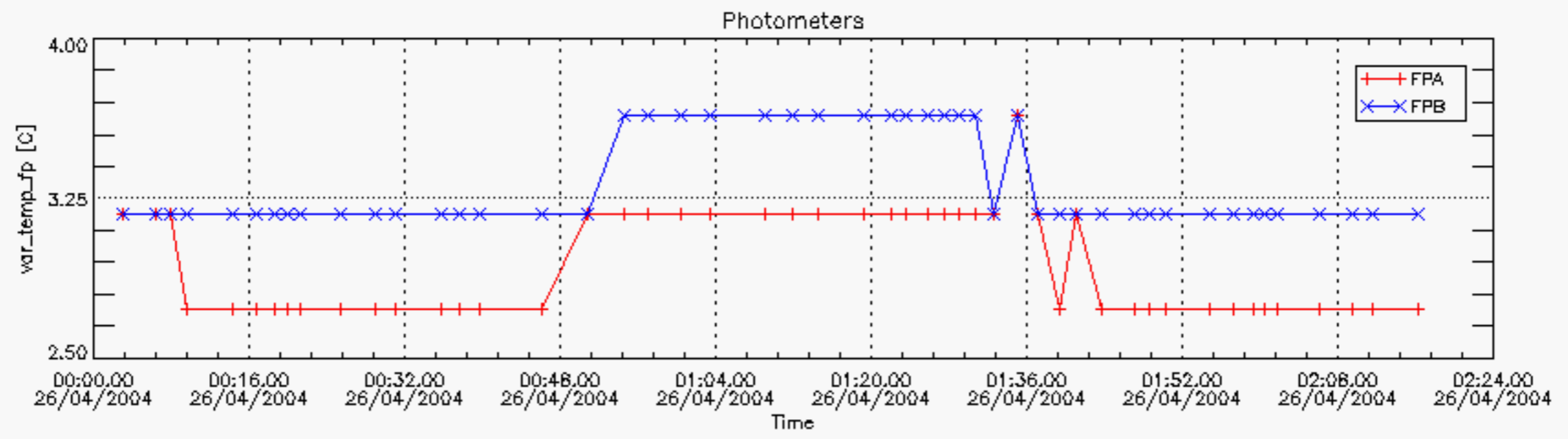
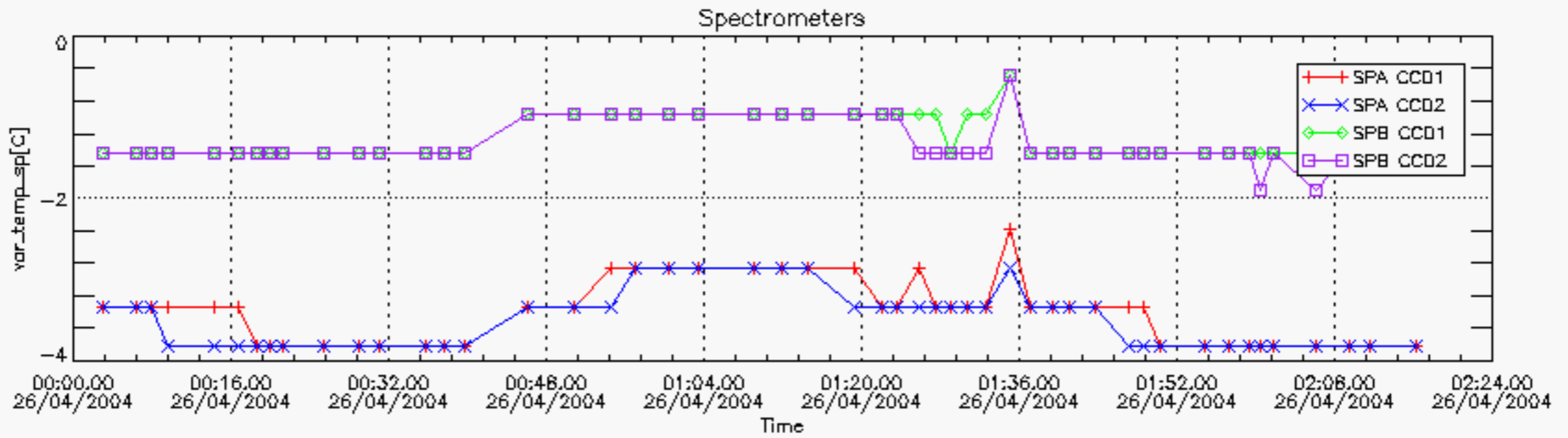
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

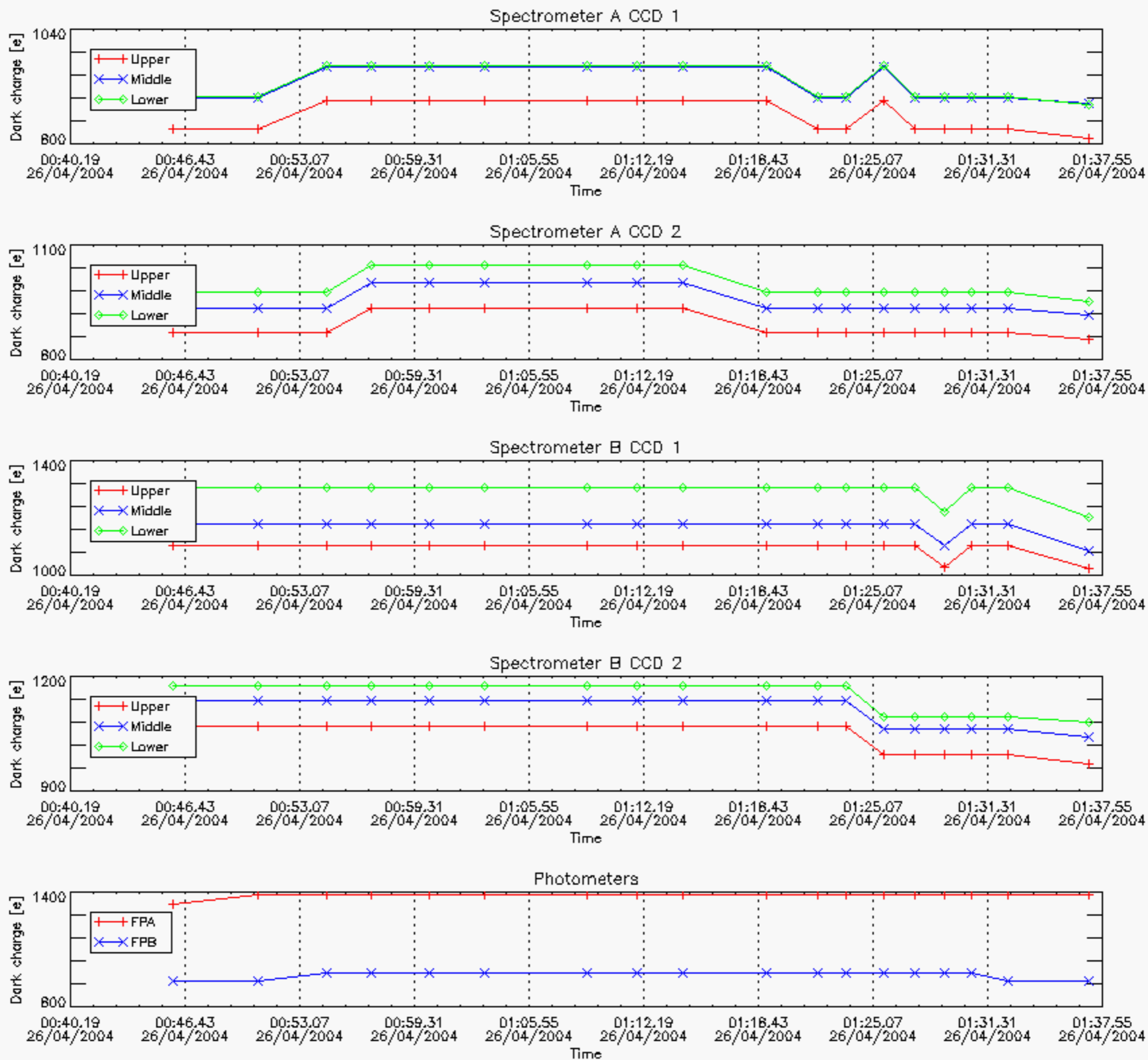
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.8	1447.6	1460.9	1446.6
St. deviation:	4.9201	5.8456	7.3176	7.9783
Maximum:	1494.0	1508.0	1509.0	1500.0
Minimum:	1442.0	1422.0	1436.0	1412.0
Number of data:	23350.	23350.	34200.	34200.

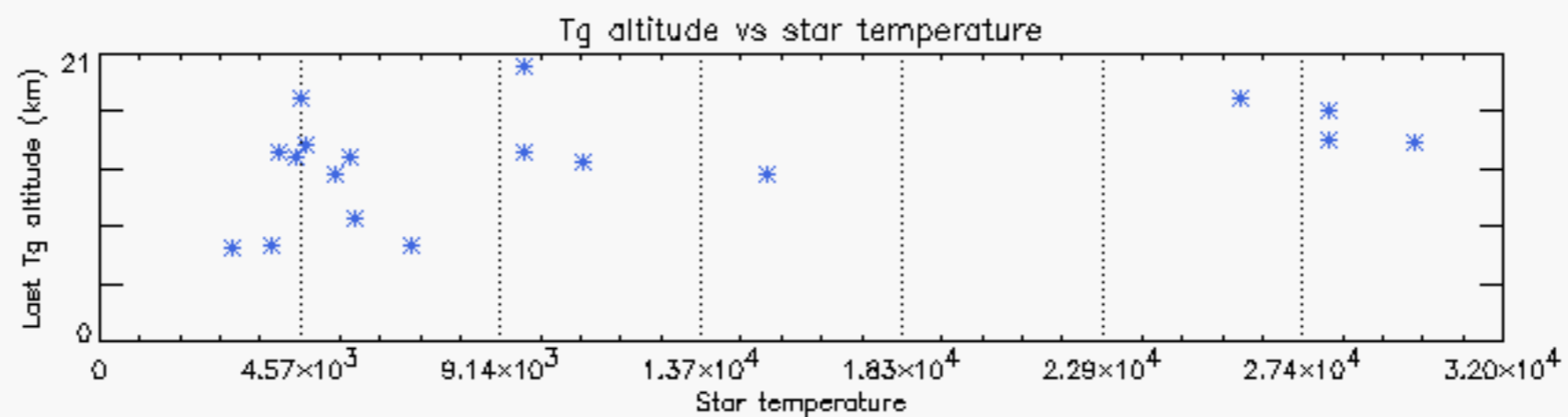
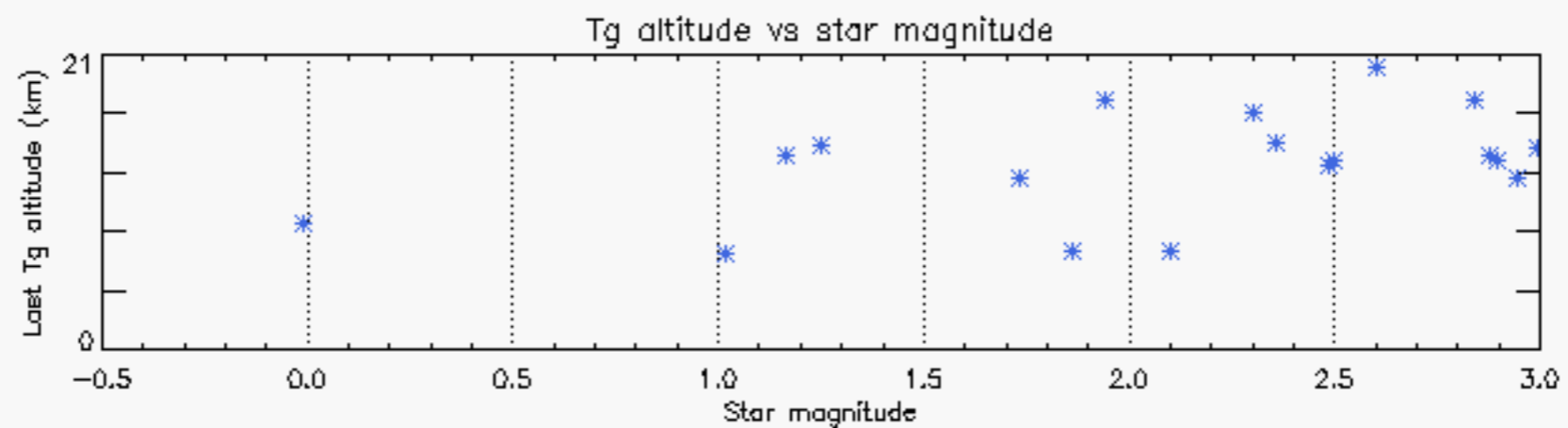
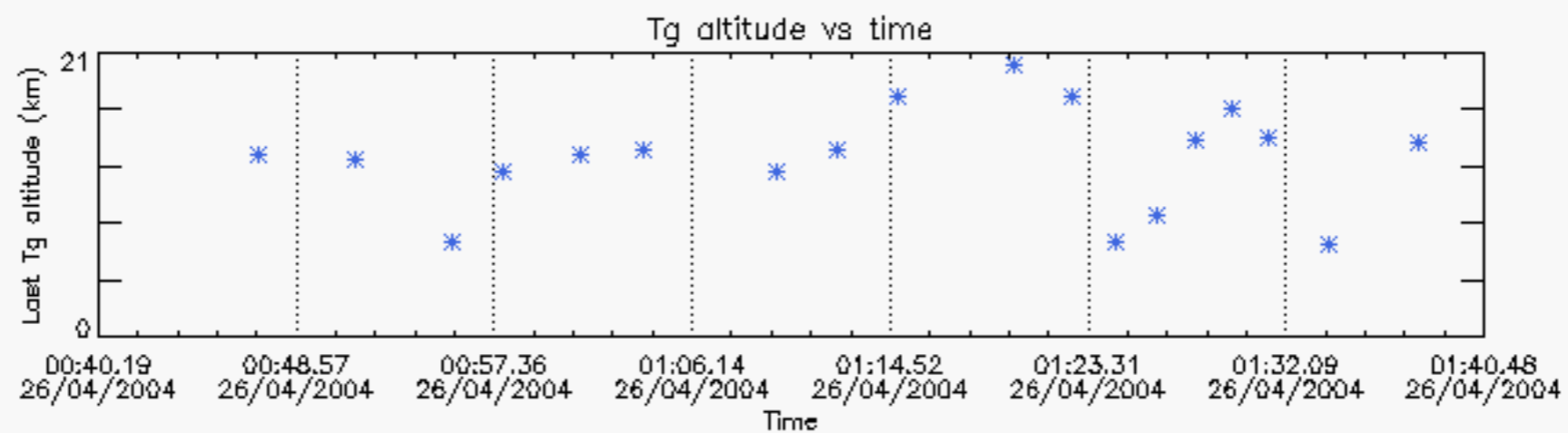




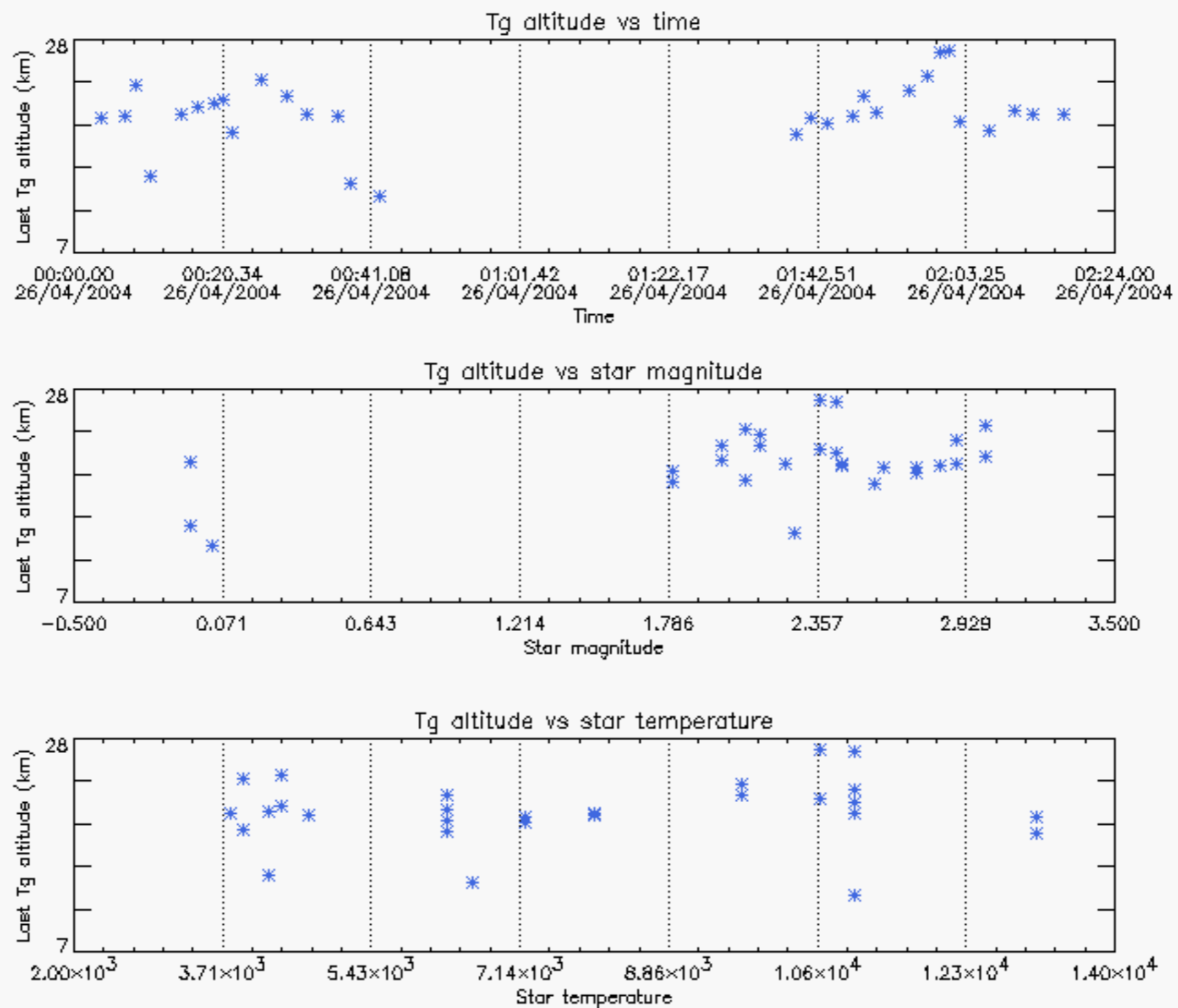




Tangent altitude at which the star is lost



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
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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

/data4_2/GOMOS/level0/GOM_NL__0PNPDK20040401_112932_000059422025_00338_10913_0229.N1

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
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19;	-777.3;	01-APR-2004	12:29:05;	Dark	;	41.5;	142;	49Del	Cap	;	2.85;	8900;	occ;	83;	0;	10913
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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
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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
27;	521.5;	01-APR-2004	12:50:44;	Dark	;	40.0;	134;	Bet	TrA	;	2.81;	6600;	occ;	80;	0;	10914
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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;	8Bet1	Sco	;	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

/data4_2/GOMOS/level0/GOM_NL_0PNPDK20040401_130821_000056162025_00339_10914_0230.N1

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 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
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 15;-1840.0; 01-APR-2004 13:51:58; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;10914
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 17;-1602.8; 01-APR-2004 13:55:56; Bright; 47.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 94; 0;10914
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 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
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 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
 33; 1105.7; 01-APR-2004 14:41:04; Dark ; 54.0; 54; 5The Cen ; 2.06; 4500;occ; 108; 0;10915

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 7;-3561.1; 01-APR-2004 03:19:42; Bright; 67.5; 111; 8Eta Boo ; 2.68; 6000;occ; 135; 0;10908
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 14;-2118.5; 01-APR-2004 03:43:44; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;10908
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 17;-1602.9; 01-APR-2004 03:52:20; Bright; 41.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 83; 0;10908
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 19;-991.8; 01-APR-2004 04:02:31; Dark ; 67.5; 11; 53Alp Aql ; 0.76; 8000;occ; 135; 0;10908
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 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
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 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
 32; 1589.0; 01-APR-2004 04:45:32; Dark ; 9.5; 163; 7Del Crv ; 2.94; 11000;occ; 19; 0;10909

/data4_2/GOMOS/level0/GOM_NL_0PNPDE20040401_044532_000060582025_00334_10909_0120.N1

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 22; -307.1; 01-APR-2004 05:54:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;10909
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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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 27; 518.8; 01-APR-2004 06:08:18; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;10910
 28; 677.1; 01-APR-2004 06:10:56; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;10910
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 32; 1103.1; 01-APR-2004 06:18:02; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;10910
 33; 1250.4; 01-APR-2004 06:20:29; Dark ; 159.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 318; 0;10910
 34; 1577.9; 01-APR-2004 06:25:57; Dark ; 34.5; 100; 4Gam Crv ; 2.58; 13100;occ; 69; 0;10910

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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
 26; 407.2; 01-APR-2004 06:06:26; Dark ; 48.5; 43; Alp TrA ; 1.91; 4250;occ; 97; 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
 26; 285.7; 01-APR-2004 07:45:01; Dark ; 55.0; 85; Kap Sco ; 2.41; 28000;occ; 110; 0;10911
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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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 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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 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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33; 1252.5; 01-APR-2004 09:41:43; Dark ; 159.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 318; 0;10912
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25; 287.9; 01-APR-2004 11:06:15; Dark ; 54.5; 85; Kap Sco ; 2.41; 28000;occ; 109; 0;10913
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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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31; 1016.8; 01-APR-2004 11:18:23; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;10913
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23; -794.0; 30-APR-2004 15:38:29; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;11330
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26; -367.2; 30-APR-2004 15:45:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11330
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28; -149.5; 30-APR-2004 15:49:13; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;11330
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30; 179.3; 30-APR-2004 15:54:42; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;11331
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26; 5.4; 30-APR-2004 05:48:13; Dark ; 48.0; 148; Alp Tuc ; 2.88; 4100;occ; 96; 0;11325
27; 175.4; 30-APR-2004 05:51:03; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;11325
28; 633.9; 30-APR-2004 05:58:41; Dark ; 97.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 195; 0;11325
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