

GOMOS Daily Report 31-MAY-2004

Level 0 and Level 1 products

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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	02JUN2004 07:10:48
Data source version	GOMOS/4.02
Start time of products	31-MAY-2004 (31MAY2004 00:00:00)
Stop time of products	01-JUN-2004 (01JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	1

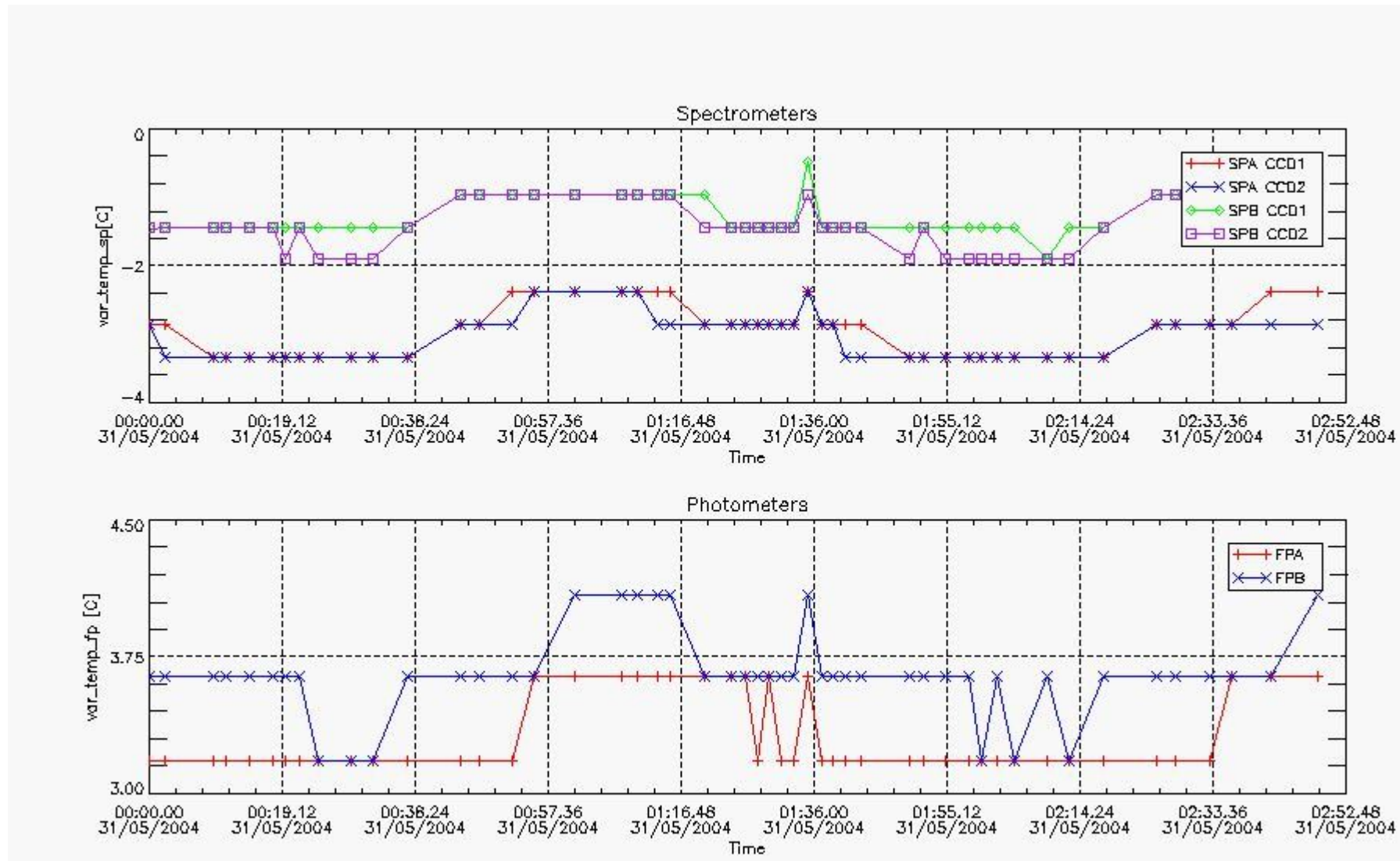
2. Summary of products arrived in PCF

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
GOM_TRA_1PNPDE20040531_000001_000000442027_00188_11765_0003.N1	31-MAY-2004 00:00:01	Bright	43.500	98	13Zet Oph	2.5710	30000.	87	11765	No
GOM_TRA_1PNPDE20040531_000213_000000422027_00188_11765_0004.N1	31-MAY-2004 00:02:13	Bright	41.500	120	1Del Oph	2.7340	3200.0	83	11765	No
GOM_TRA_1PNPDE20040531_000913_000000382027_00188_11765_0005.N1	31-MAY-2004 00:09:13	Bright	37.500	3	16Alp Boo	-0.050000	4250.0	75	11765	No
GOM_TRA_1PNPDE20040531_001110_000000362027_00188_11765_0006.N1	31-MAY-2004 00:11:10	Bright	36.000	83		2.3780	11000.	72	11765	No
GOM_TRA_1PNPDE20040531_001422_000000362027_00188_11765_0007.N1	31-MAY-2004 00:14:22	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	11765	No
GOM_TRA_1PNPDE20040531_001744_000000382027_00188_11765_0008.N1	31-MAY-2004 00:17:44	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	11765	No
GOM_TRA_1PNPDE20040531_001932_000000392027_00188_11765_0009.N1	31-MAY-2004 00:19:32	Bright	38.500	55	79Zet UMa	2.0600	10200.	77	11765	No
GOM_TRA_1PNPDE20040531_002147_000000402027_00188_11765_0010.N1	31-MAY-2004 00:21:47	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	11765	No
GOM_TRA_1PNPDE20040531_002425_000000382027_00188_11765_0011.N1	31-MAY-2004 00:24:25	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	11765	No
GOM_TRA_1PNPDE20040531_002906_000000342027_00188_11765_0012.N1	31-MAY-2004 00:29:06	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	11765	No
GOM_TRA_1PNPDE20040531_003214_000000482027_00188_11765_0013.N1	31-MAY-2004 00:32:14	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	11765	No
GOM_TRA_1PNPDE20040531_003709_000000412027_00188_11765_0014.N1	31-MAY-2004 00:37:09	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	11765	No
GOM_TRA_1PNPDE20040531_004452_000000442027_00188_11765_0015.N1	31-MAY-2004 00:44:52	Twilight	43.500	53	43Bet And	2.0480	3300.0	87	11765	No
GOM_TRA_1PNPDE20040531_004733_000000562027_00188_11765_0016.N1	31-MAY-2004 00:47:33	Twilight	56.000	58	21Alp And	2.0730	11000.	112	11765	No
GOM_TRA_1PNPDE20040531_005227_000000542027_00188_11765_0017.N1	31-MAY-2004 00:52:27	Dark	53.500	140	88Gam Peg	2.8340	26000.	107	11765	No
GOM_TRA_1PNPDE20040531_005538_000000882027_00188_11765_0018.N1	31-MAY-2004 00:55:38	Dark	87.500	90	54Alp Peg	2.4870	11000.	175	11765	No
GOM_TRA_1PNPDE20040531_010125_000000512027_00188_11765_0019.N1	31-MAY-2004 01:01:25	Dark	51.000	52	16Bet Cet	2.0370	4500.0	102	11765	No
GOM_TRA_1PNPDE20040531_010807_000000422027_00188_11765_0020.N1	31-MAY-2004 01:08:07	Dark	41.500	84	Alp Phe	2.3970	4500.0	83	11765	No
GOM_TRA_1PNPDE20040531_011022_000000492027_00188_11765_0021.N1	31-MAY-2004 01:10:22	Dark	48.500	9	Alp Eri	0.45300	24000.	97	11765	No
GOM_TRA_1PNPDE20040531_011324_000000622027_00189_11766_0022.N1	31-MAY-2004 01:13:24	Dark	62.000	63	Bet Gru	2.1500	2800.0	124	11766	No
GOM_TRA_1PNPDE20040531_011515_000000482027_00189_11766_0023.N1	31-MAY-2004 01:15:15	Dark	48.000	31	Alp Gru	1.7340	15200.	96	11766	No
GOM_TRA_1PNPDE20040531_012016_000000452027_00189_11766_0024.N1	31-MAY-2004 01:20:16	Dark	44.500	45	Alp Pav	1.9400	26000.	89	11766	No
GOM_TRA_1PNPDE20040531_012359_000000512027_00189_11766_0025.N1	31-MAY-2004 01:23:59	Twilight	50.500	43	Alp TrA	1.9100	4250.0	101	11766	No
GOM_TRA_1PNPDE20040531_012603_000000412027_00189_11766_0026.N1	31-MAY-2004 01:26:03	Twilight	40.500	134	Bet TrA	2.8100	6600.0	81	11766	No
GOM_TRA_1PNPDE20040531_012745_000000442027_00189_11766_0027.N1	31-MAY-2004 01:27:45	Bright	43.500	147	Alp Ara	2.8770	26000.	87	11766	No
GOM_TRA_1PNPDE20040531_012924_000000492027_00189_11766_0028.N1	31-MAY-2004 01:29:24	Bright	49.000	40	The Sco	1.8590	7100.0	98	11766	No
GOM_TRA_1PNPDE20040531_013112_000000522027_00189_11766_0029.N1	31-MAY-2004 01:31:12	Bright	52.000	25	35Lam Sco	1.6200	28000.	104	11766	No
GOM_TRA_1PNPDE20040531_013302_000000472027_00189_11766_0030.N1	31-MAY-2004 01:33:02	Bright	47.000	75	26Eps Sco	2.2910	4250.0	94	11766	No
GOM_TRA_1PNPDE20040531_013505_000000442027_00189_11766_0000.N1	31-MAY-2004 01:35:05	Bright	43.500	136	23Tau Sco	2.8220	30000.	87	11766	Yes
GOM_TRA_1PNPDE20040531_013711_000000412027_00189_11766_0001.N1	31-MAY-2004 01:37:11	Bright	41.000	80	7Del Sco	2.3160	30000.	82	11766	No
GOM_TRA_1PNPDE20040531_013845_000000482027_00189_11766_0002.N1	31-MAY-2004 01:38:45	Bright	48.000	86	35Eta Oph	2.4300	10200.	96	11766	No
GOM_TRA_1PNPDE20040531_014037_000000442027_00189_11766_0003.N1	31-MAY-2004 01:40:37	Bright	43.500	98	13Zet Oph	2.5710	30000.	87	11766	No
GOM_TRA_1PNPDE20040531_014248_000000422027_00189_11766_0004.N1	31-MAY-2004 01:42:48	Bright	41.500	120	1Del Oph	2.7340	3200.0	83	11766	No
GOM_TRA_1PNPDE20040531_014949_000000392027_00189_11766_0005.N1	31-MAY-2004 01:49:49	Bright	39.000	3	16Alp Boo	-0.050000	4250.0	78	11766	No
GOM_TRA_1PNPDE20040531_015146_000000382027_00189_11766_0006.N1	31-MAY-2004 01:51:46	Bright	38.000	83		2.3780	11000.	76	11766	No
GOM_TRA_1PNPDE20040531_015457_000000372027_00189_11766_0007.N1	31-MAY-2004 01:54:57	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11766	No
GOM_TRA_1PNPDE20040531_015820_000000382027_00189_11766_0008.N1	31-MAY-2004 01:58:20	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	11766	No
GOM_TRA_1PNPDE20040531_020007_000000362027_00189_11766_0009.N1	31-MAY-2004 02:00:07	Bright	36.000	55	79Zet UMa	2.0600	10200.	72	11766	No
GOM_TRA_1PNPDE20040531_020222_000000382027_00189_11766_0010.N1	31-MAY-2004 02:02:22	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	11766	No
GOM_TRA_1PNPDE20040531_020500_000000402027_00189_11766_0011.N1	31-MAY-2004 02:05:00	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	11766	No
GOM_TRA_1PNPDE20040531_020942_000000362027_00189_11766_0012.N1	31-MAY-2004 02:09:42	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	11766	No
GOM_TRA_1PNPDE20040531_021249_000000472027_00189_11766_0013.N1	31-MAY-2004 02:12:49	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	11766	No
GOM_TRA_1PNPDE20040531_021745_000000472027_00189_11766_0014.N1	31-MAY-2004 02:17:45	Bright	47.000	76	27Gam Cas	2.3000	30000.	94	11766	No
GOM_TRA_1PNPDE20040531_022527_000000452027_00189_11766_0015.N1	31-MAY-2004 02:25:27	Twilight	44.500	53	43Bet And	2.0480	3300.0	89	11766	No
GOM_TRA_1PNPDE20040531_022809_000000572027_00189_11766_0016.N1	31-MAY-2004 02:28:09	Twilight	56.500	58	21Alp And	2.0730	11000.	113	11766	No
GOM_TRA_1PNPDE20040531_023302_000000552027_00189_11766_0017.N1	31-MAY-2004 02:33:02	Dark	55.000	140	88Gam Peg	2.8340	26000.	110	11766	No
GOM_TRA_1PNPDE20040531_023616_000000832027_00189_11766_0018.N1	31-MAY-2004 02:36:16	Dark	83.000	90	54Alp Peg	2.4870	11000.	166	11766	No
GOM_TRA_1PNPDE20040531_024201_000000502027_00189_11766_0019.N1	31-MAY-2004 02:42:01	Dark	49.500	52	16Bet Cet	2.0370	4500.0	99	11766	No
GOM_TRA_1PNPDE20040531_024843_000000472027_00189_11766_0020.N1	31-MAY-2004 02:48:43	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	11766	No

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



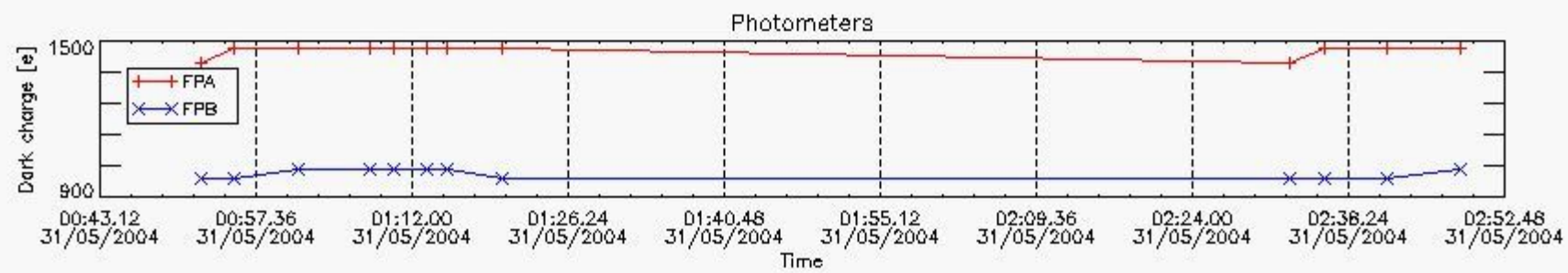
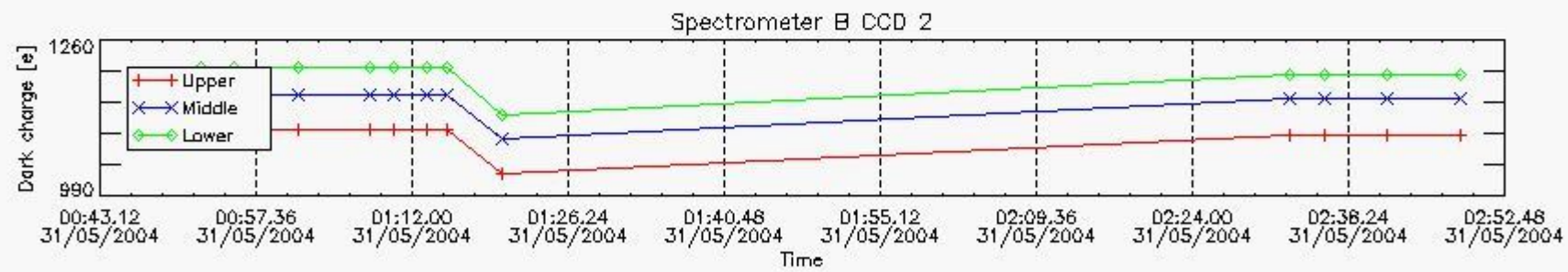
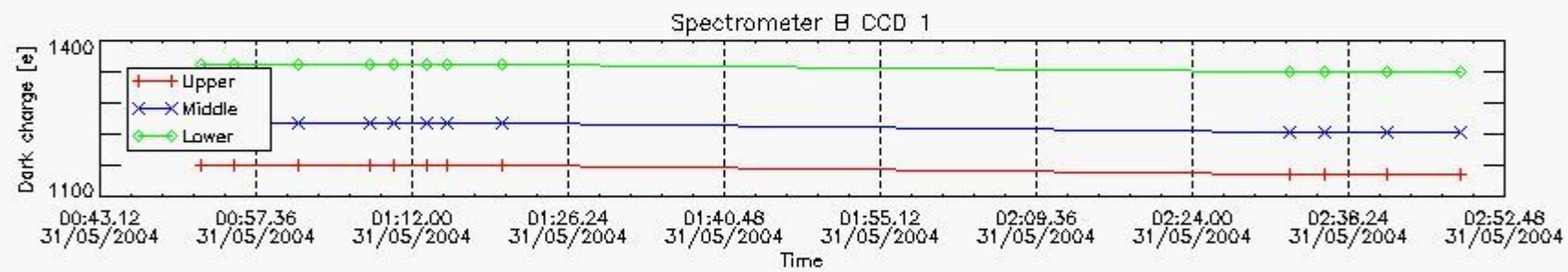
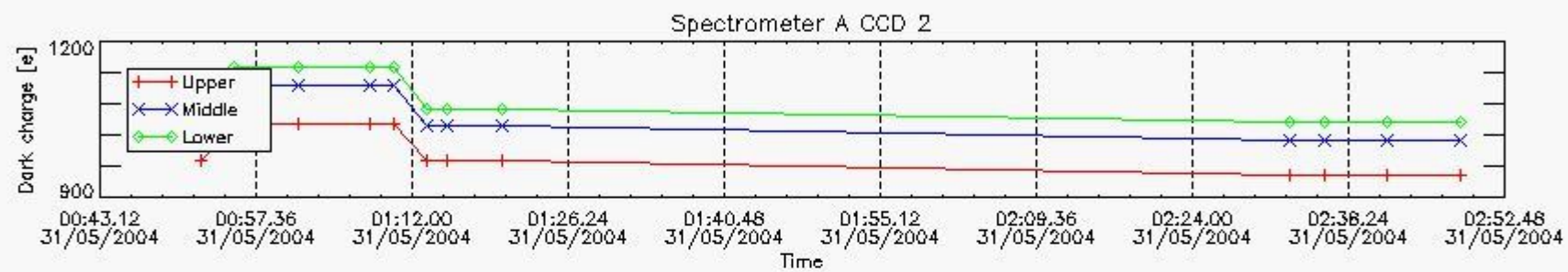
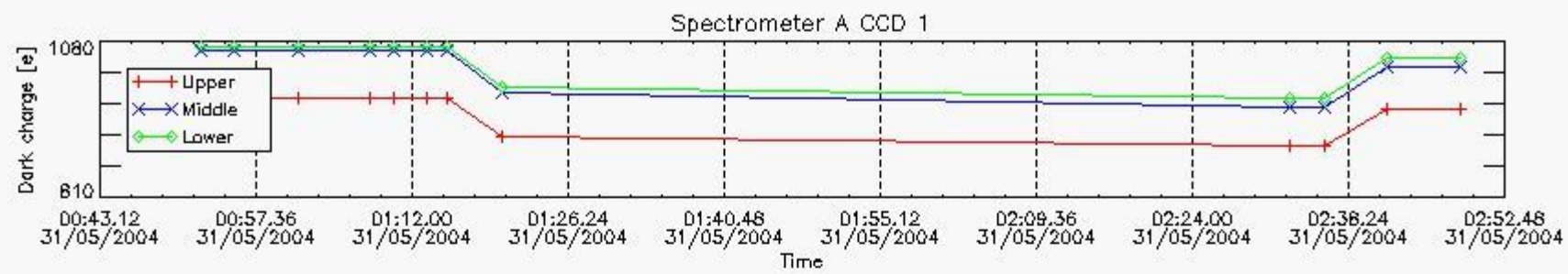
4. Overview of dark signal processing per product

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



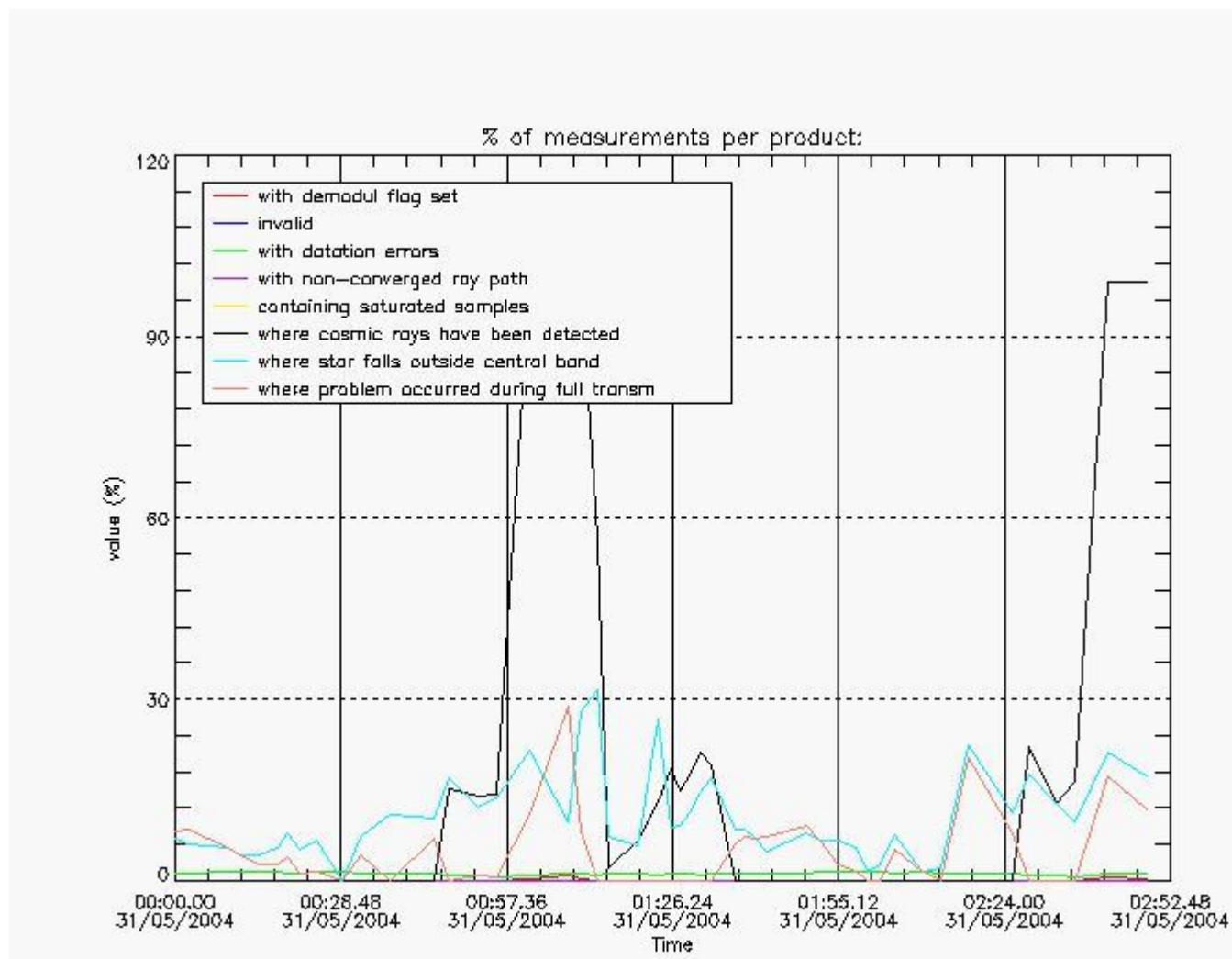
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

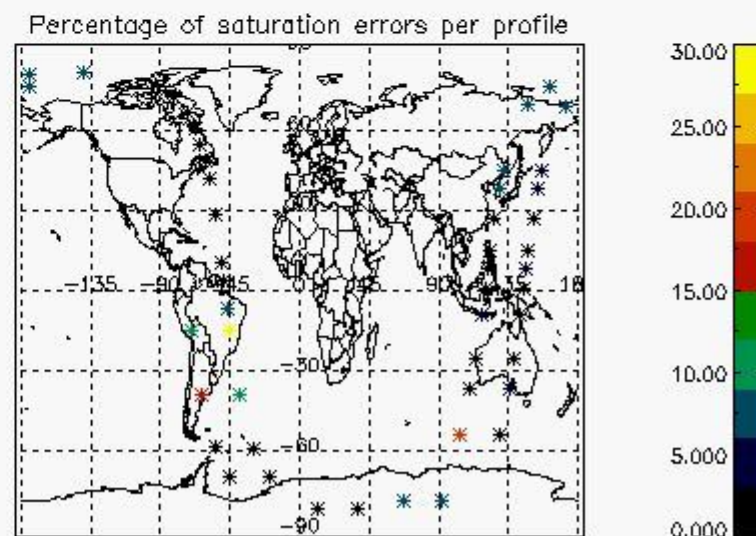
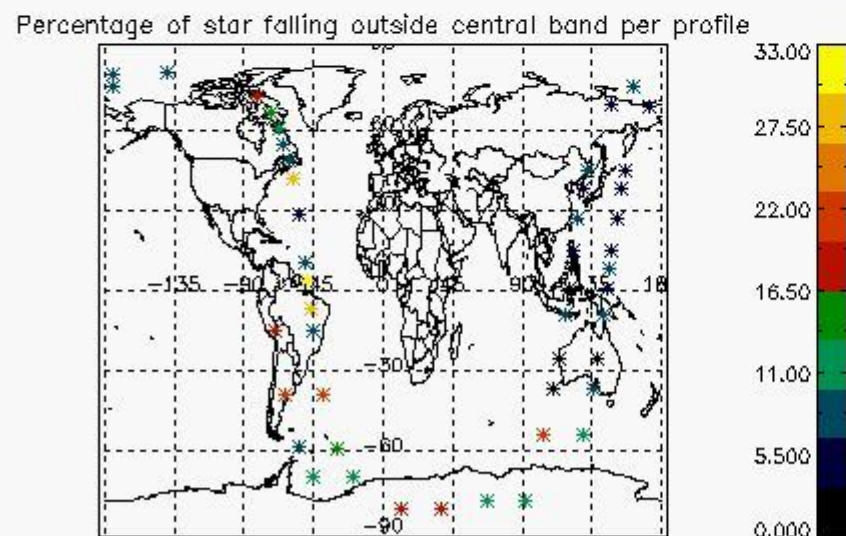
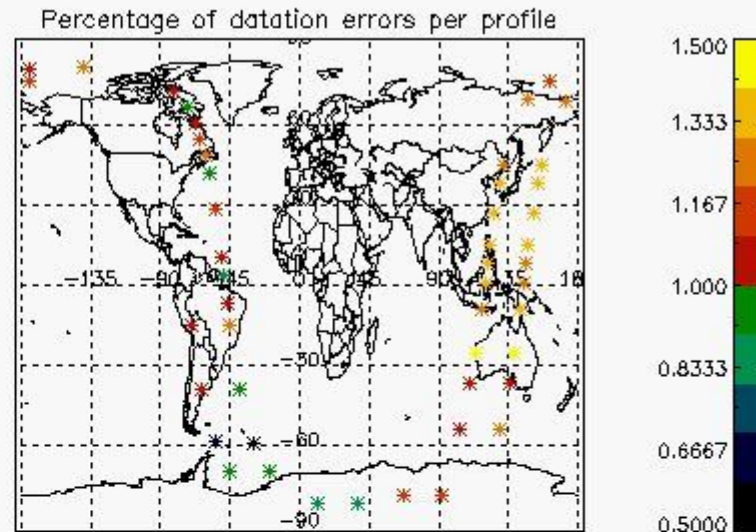
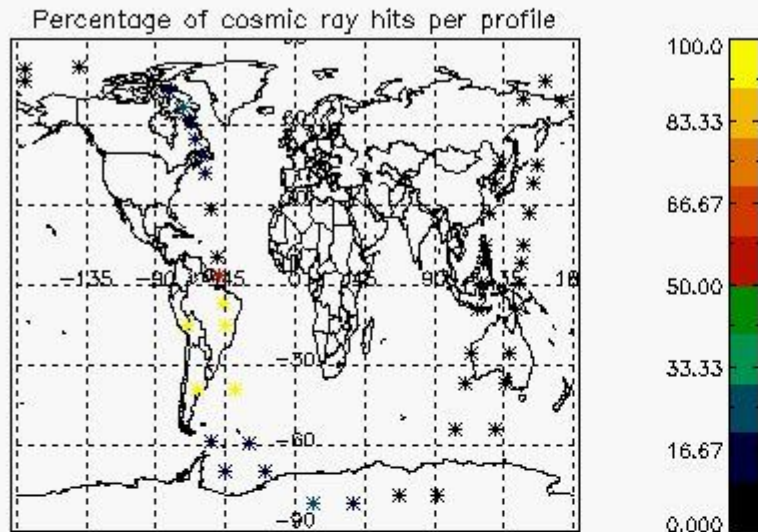
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.5833 %
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 (time dependant)



5.3 Plot quality information per product (world map)



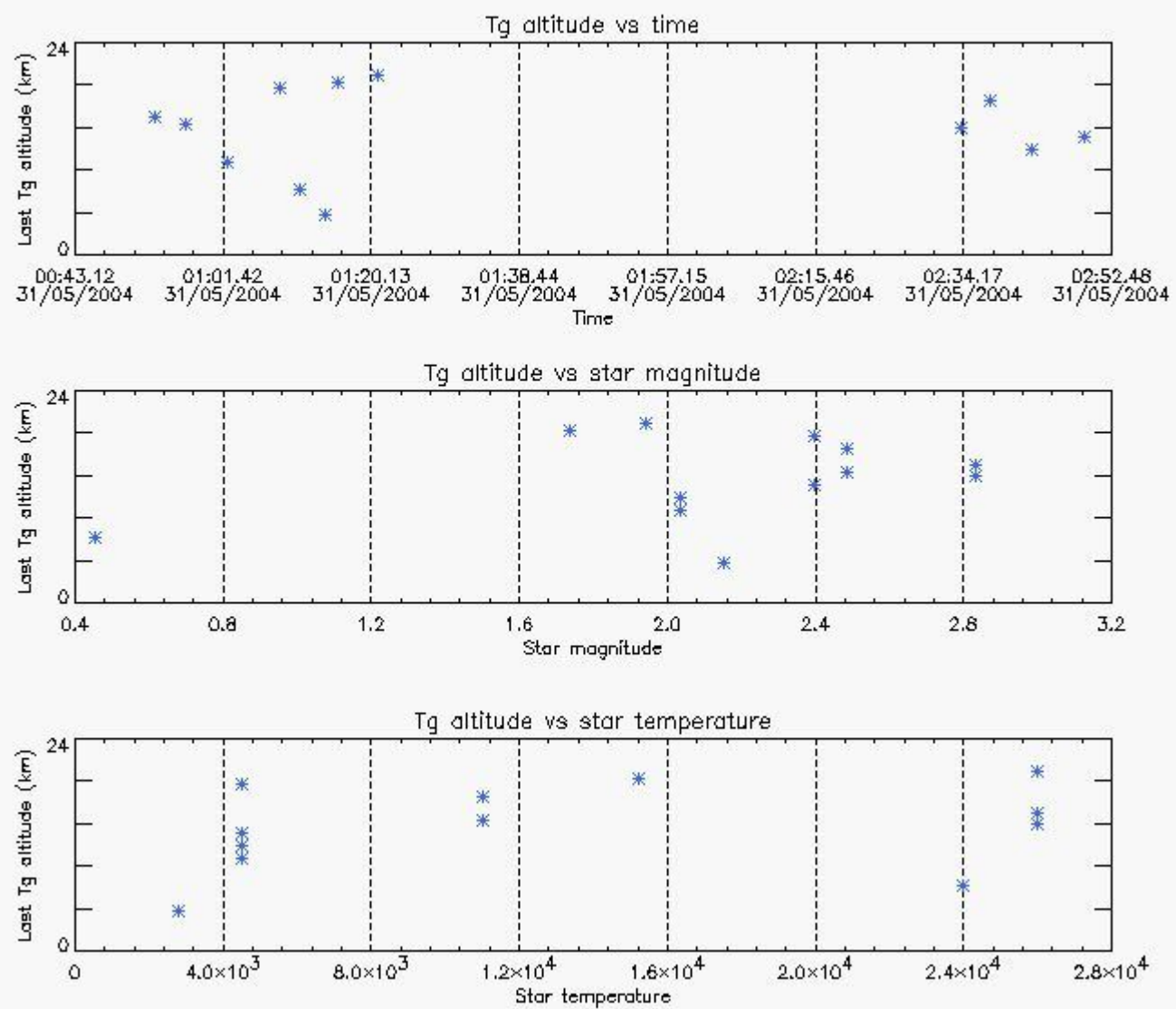
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.023	20.250	13.708
St. deviation:	4.8710	3.6349	4.0705
Maximum:	20.369	28.149	18.133
Minimum:	4.4468	11.922	6.8298
Number of data:	12.000	30.000	6.0000

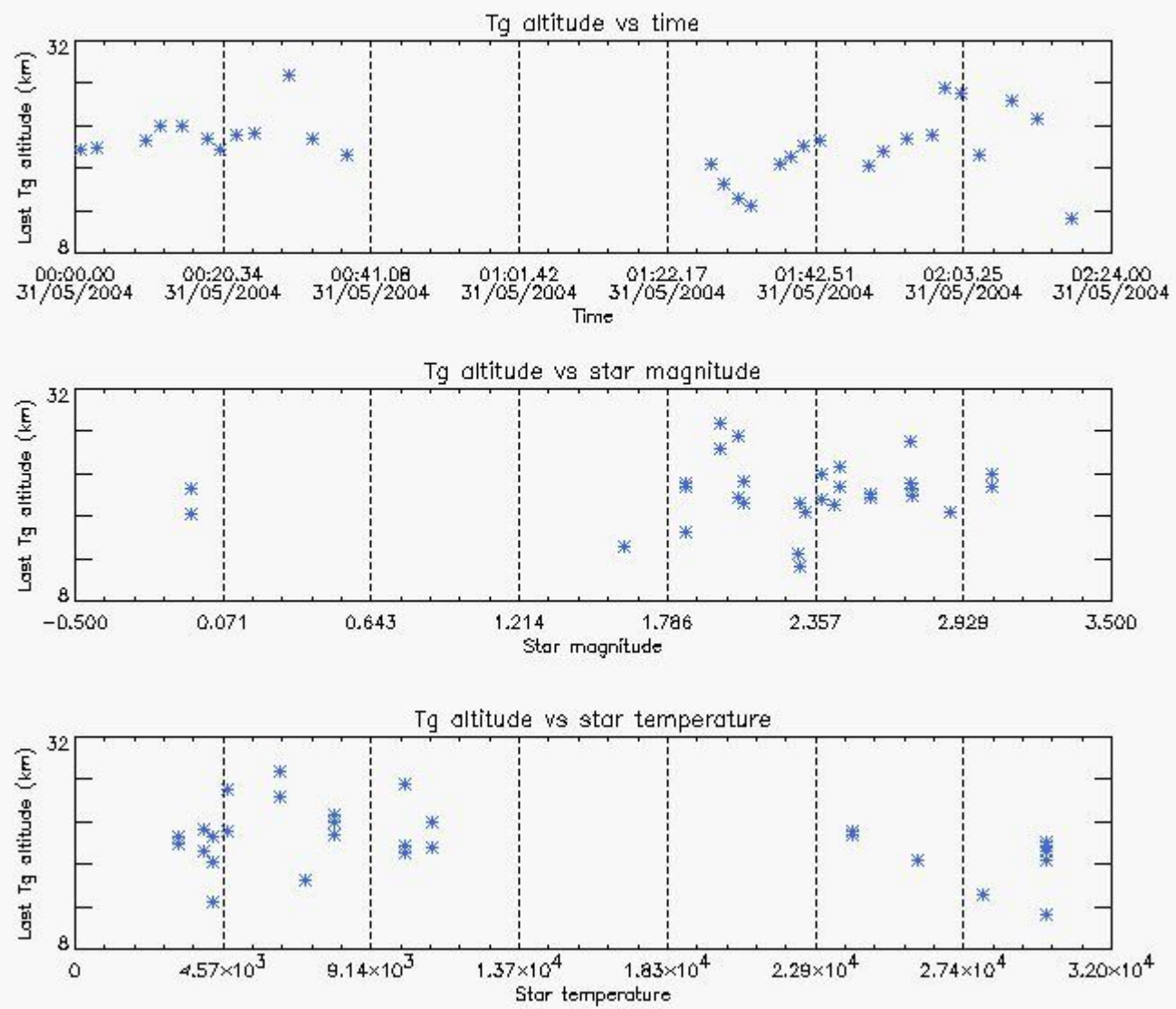
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



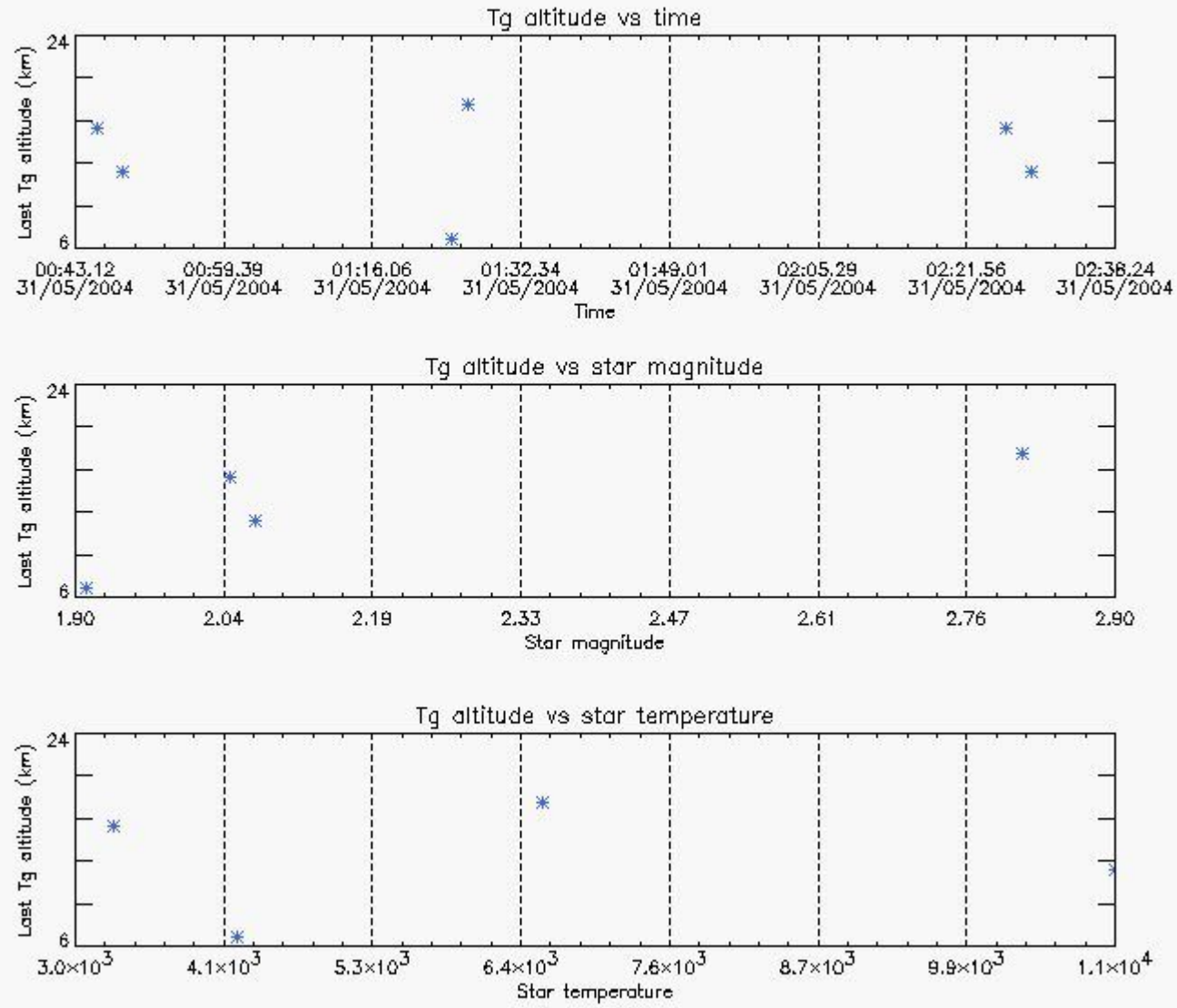
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

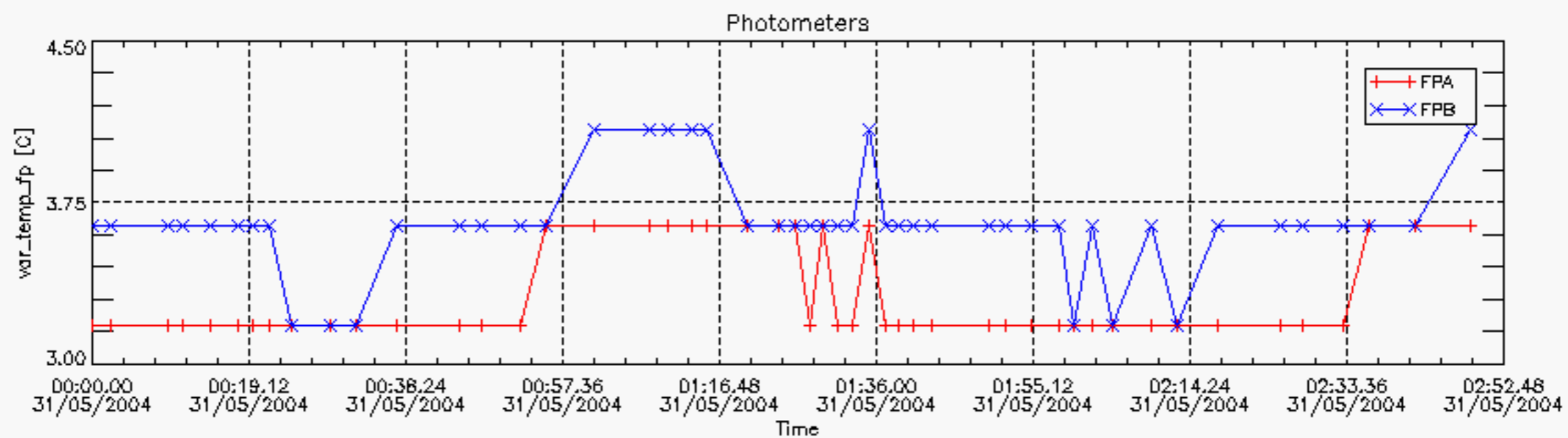
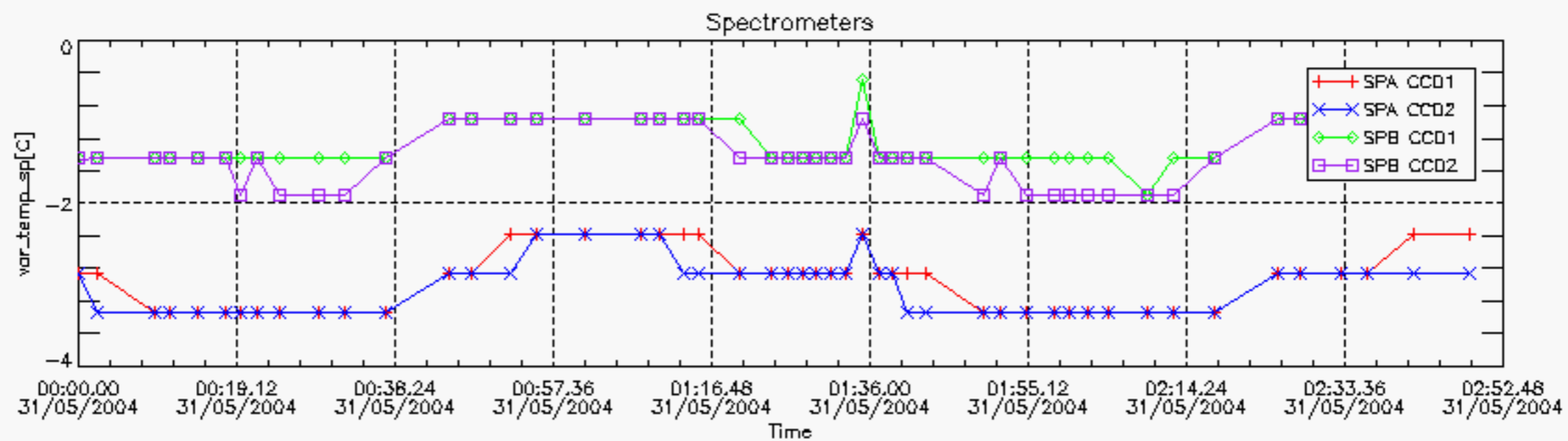
Tangent altitude at which the star is lost

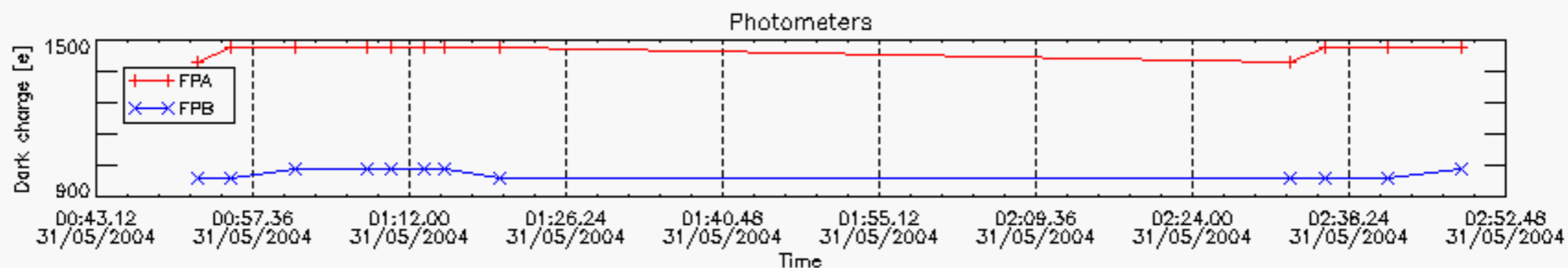
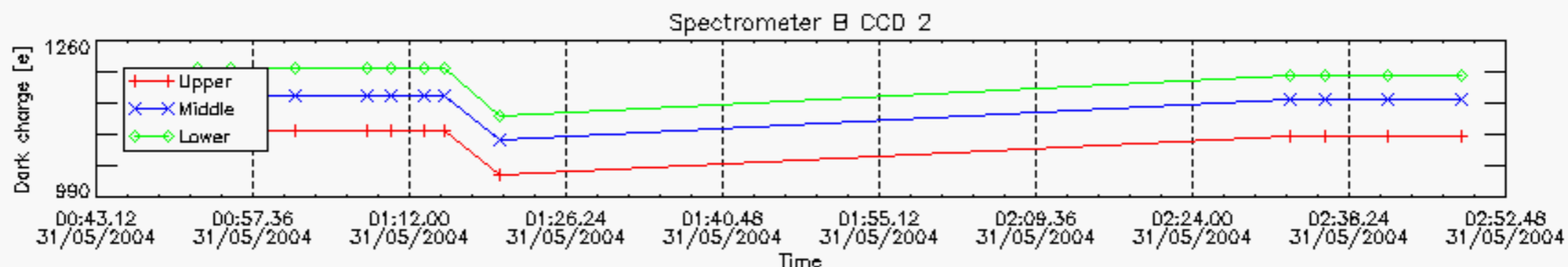
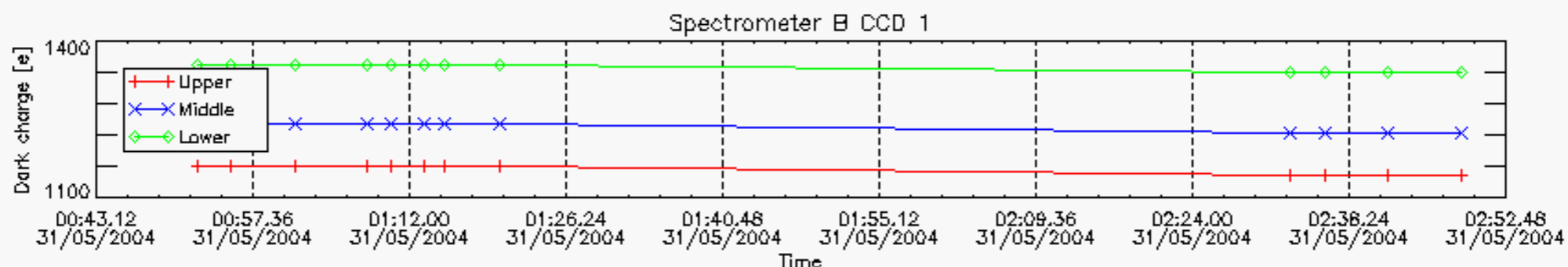
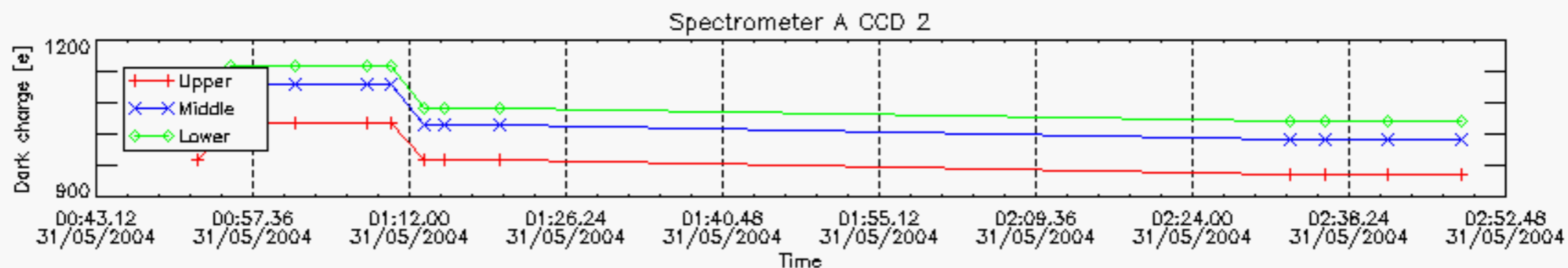
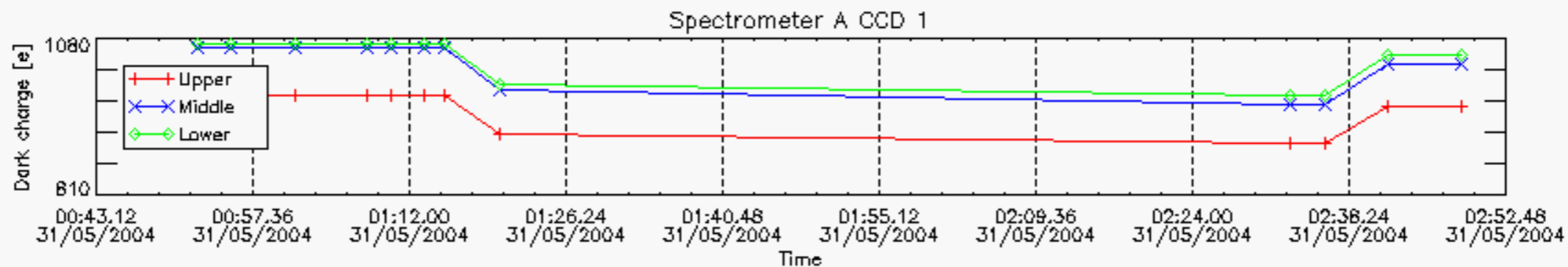


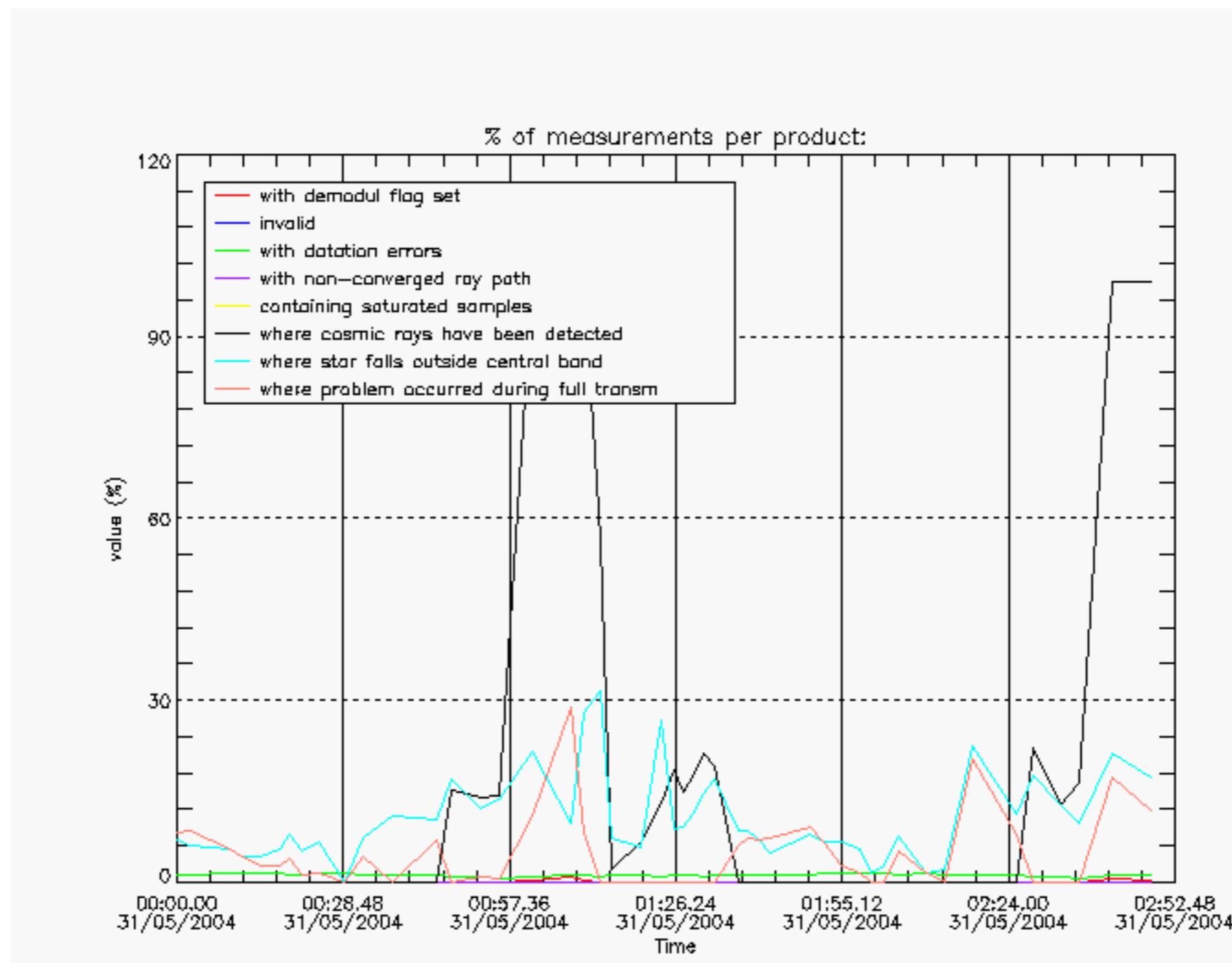
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

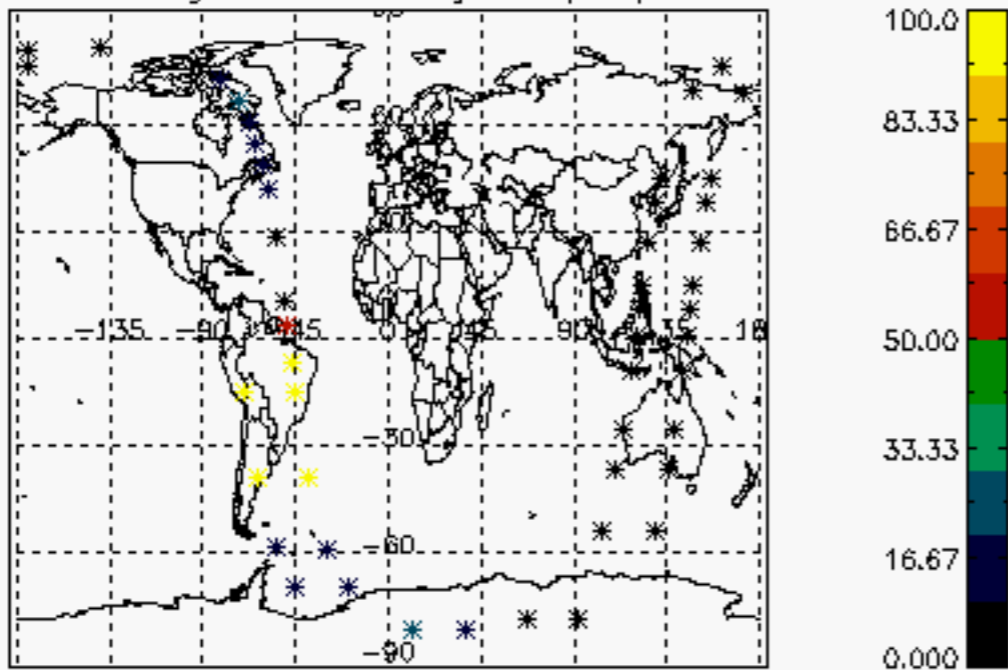
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.2	1447.7	1461.5	1446.7
St. deviation:	5.5420	7.3208	6.6181	8.0017
Maximum:	1527.0	1512.0	1511.0	1497.0
Minimum:	1449.0	1426.0	1440.0	1422.0
Number of data:	16550.	16550.	32800.	32800.



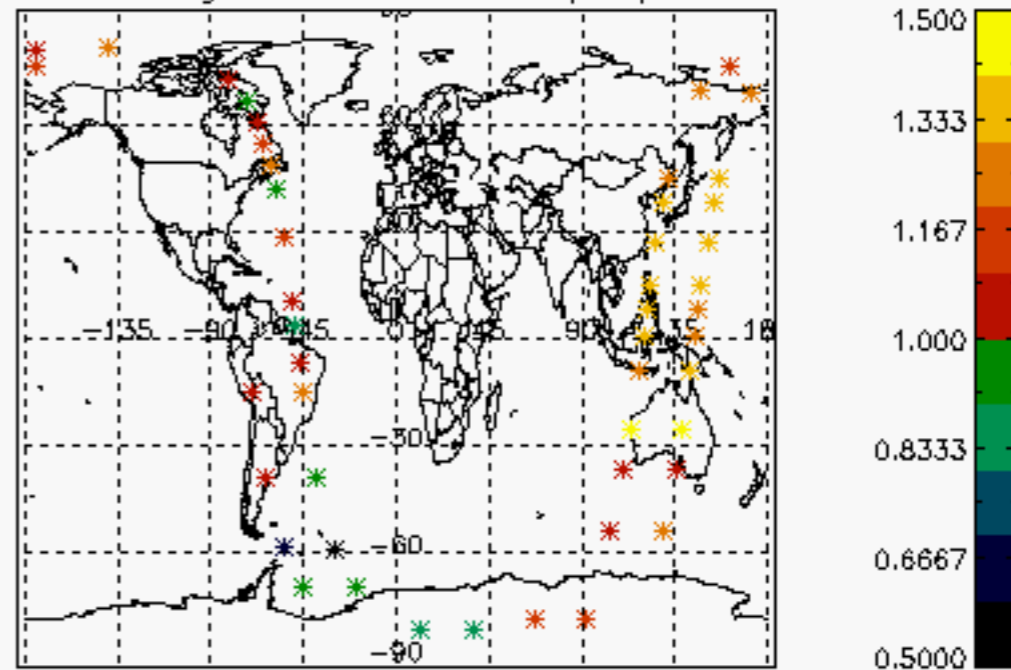




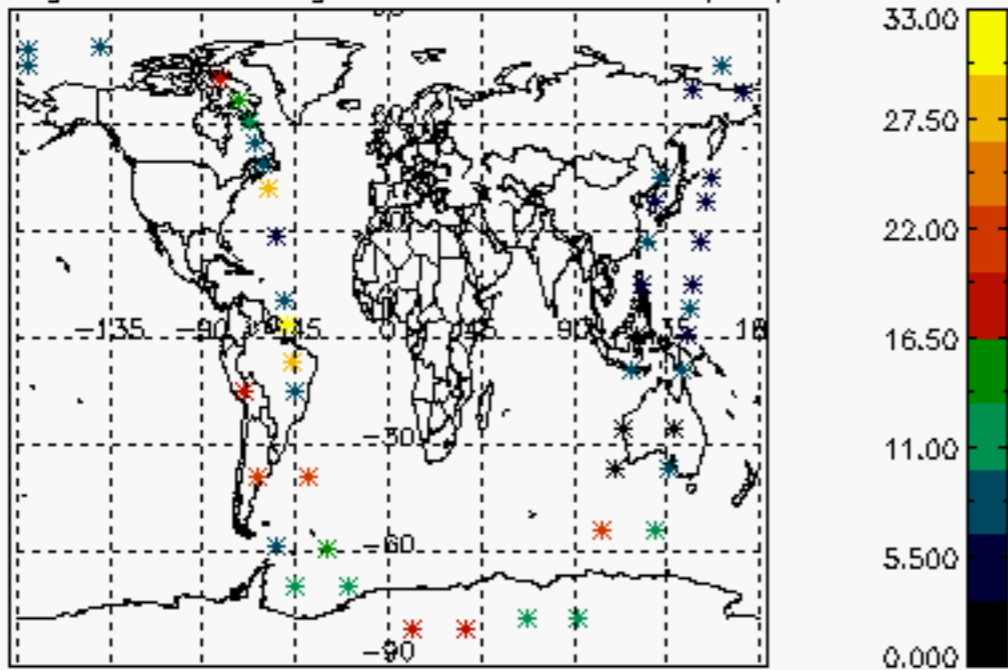
Percentage of cosmic ray hits per profile



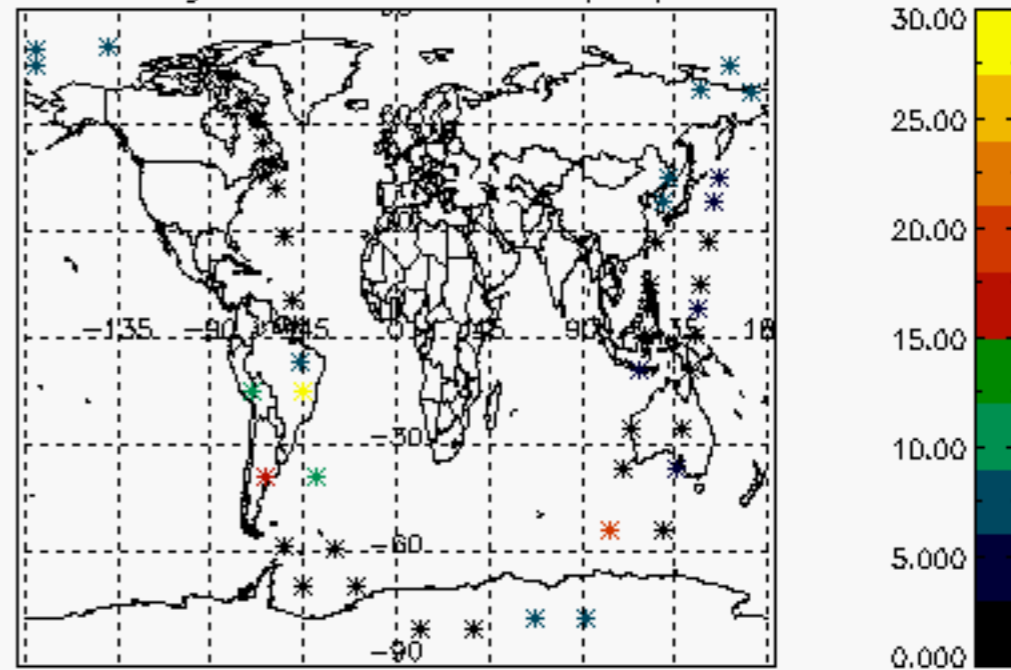
Percentage of datation errors per profile



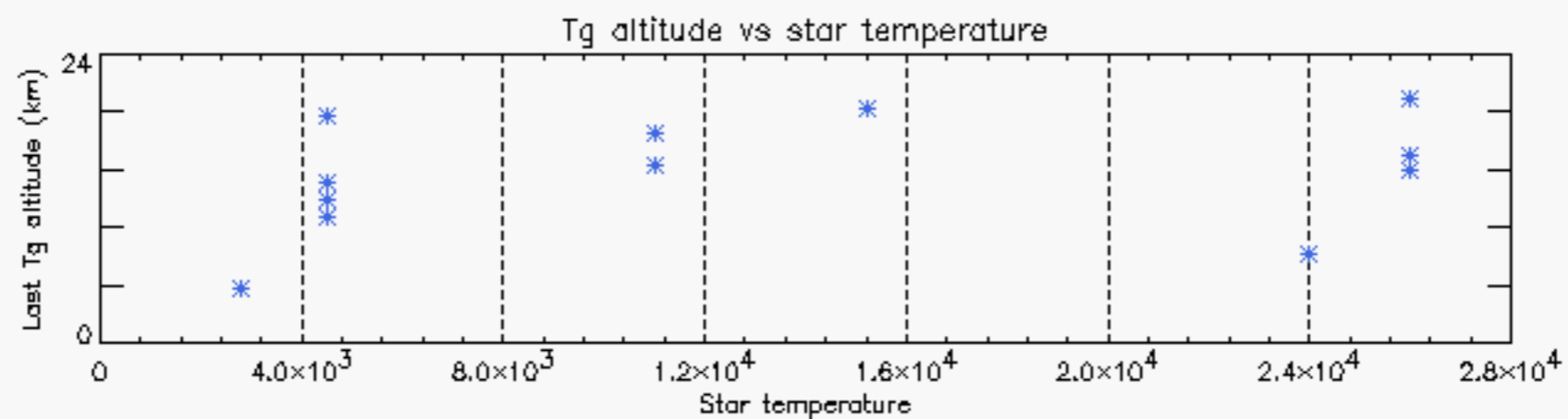
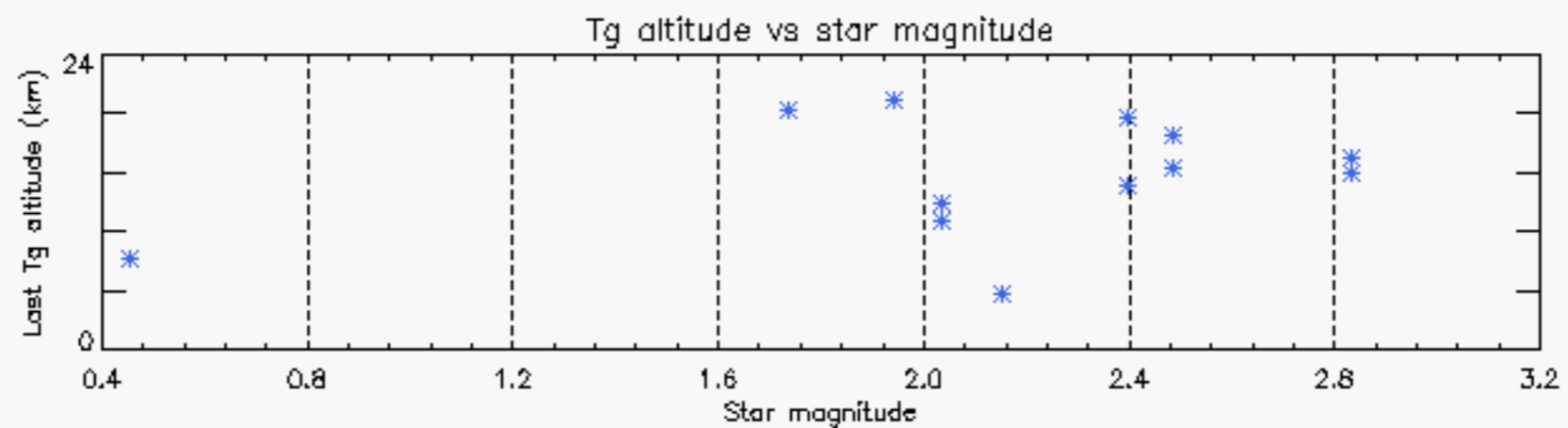
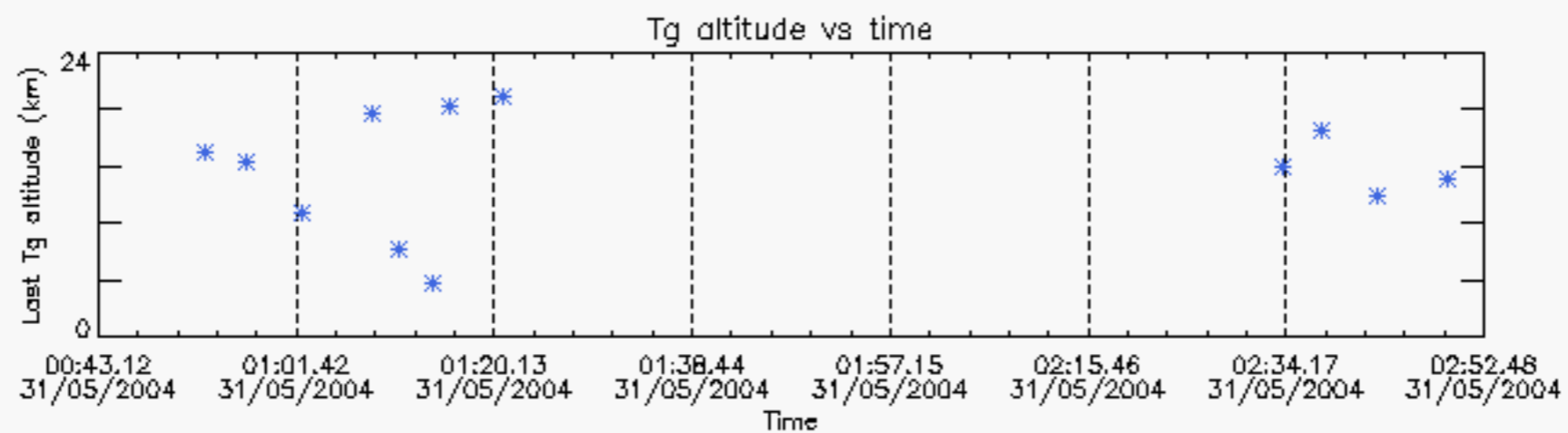
Percentage of star falling outside central band per profile



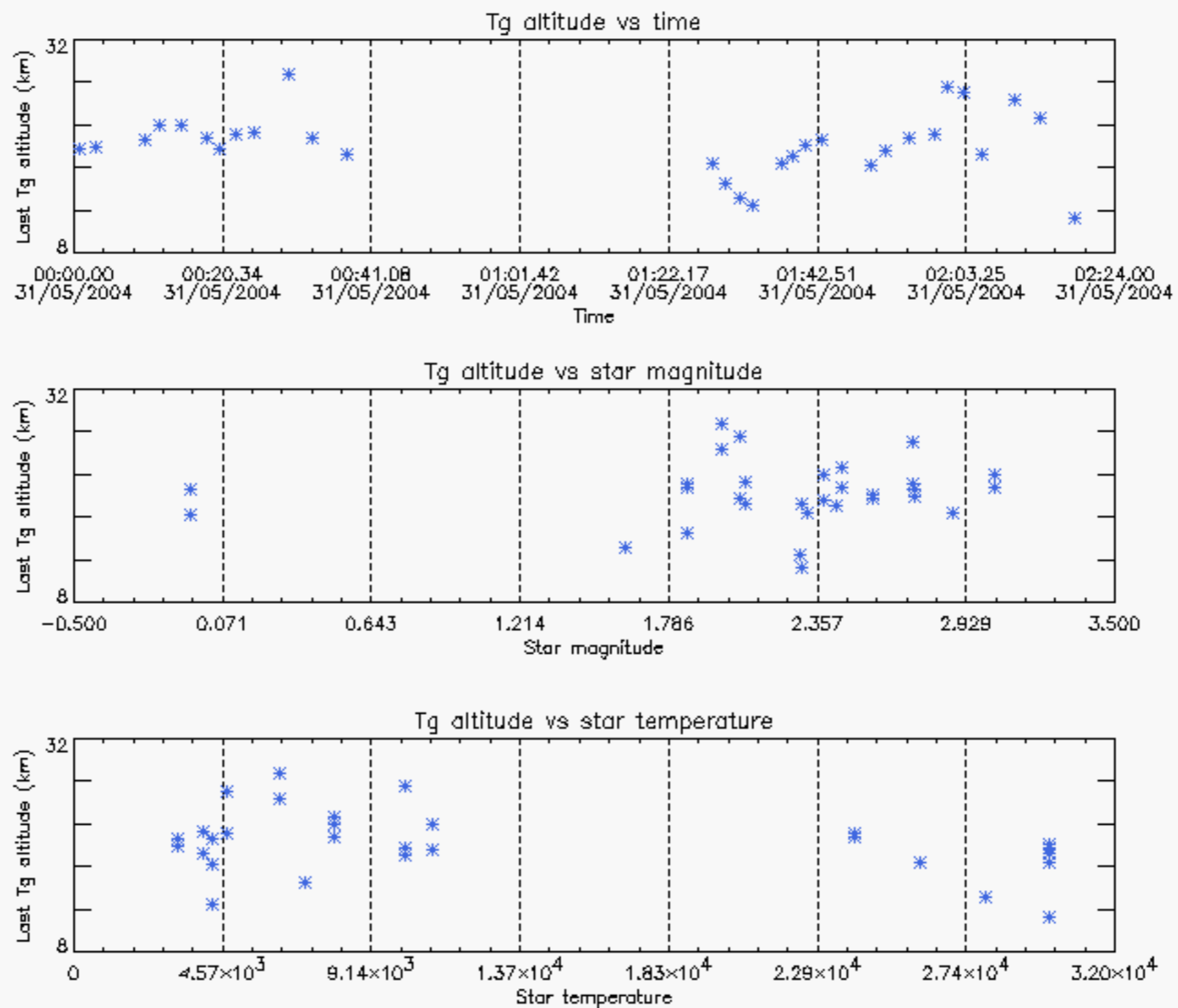
Percentage of saturation errors per profile



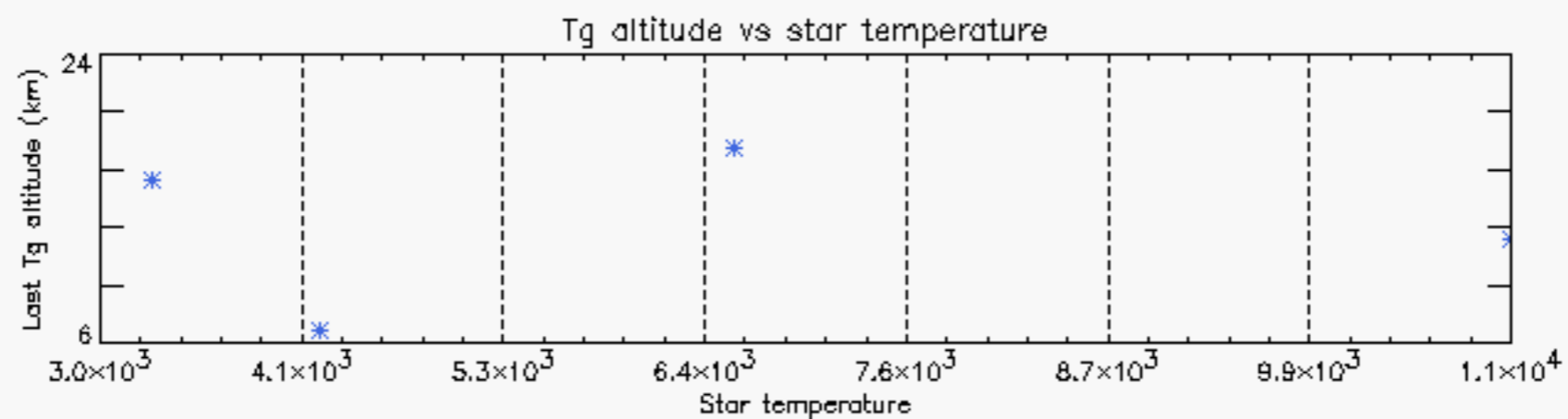
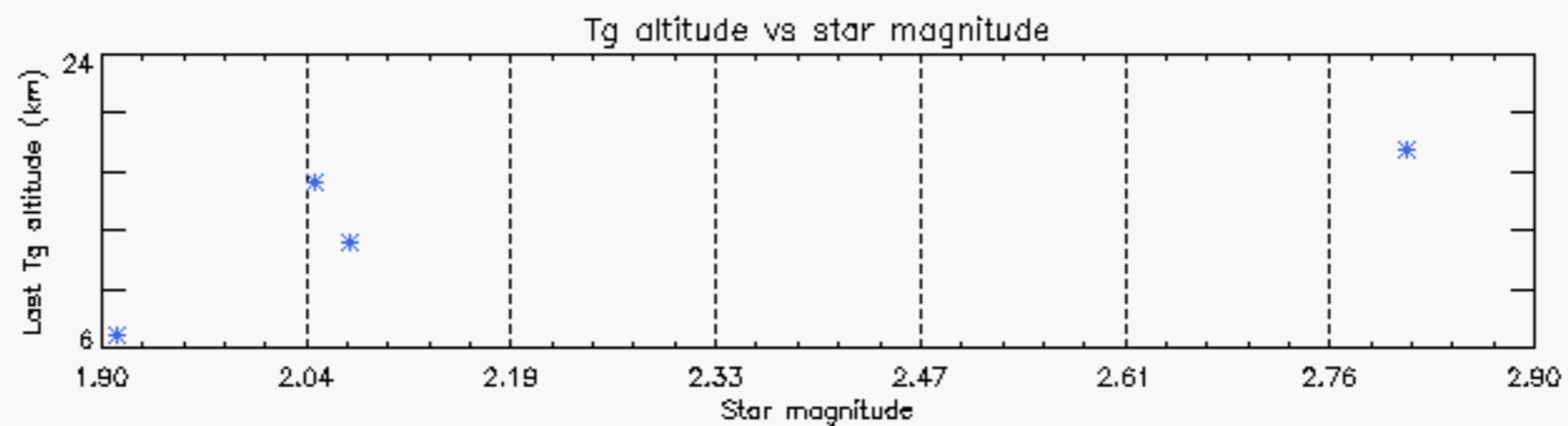
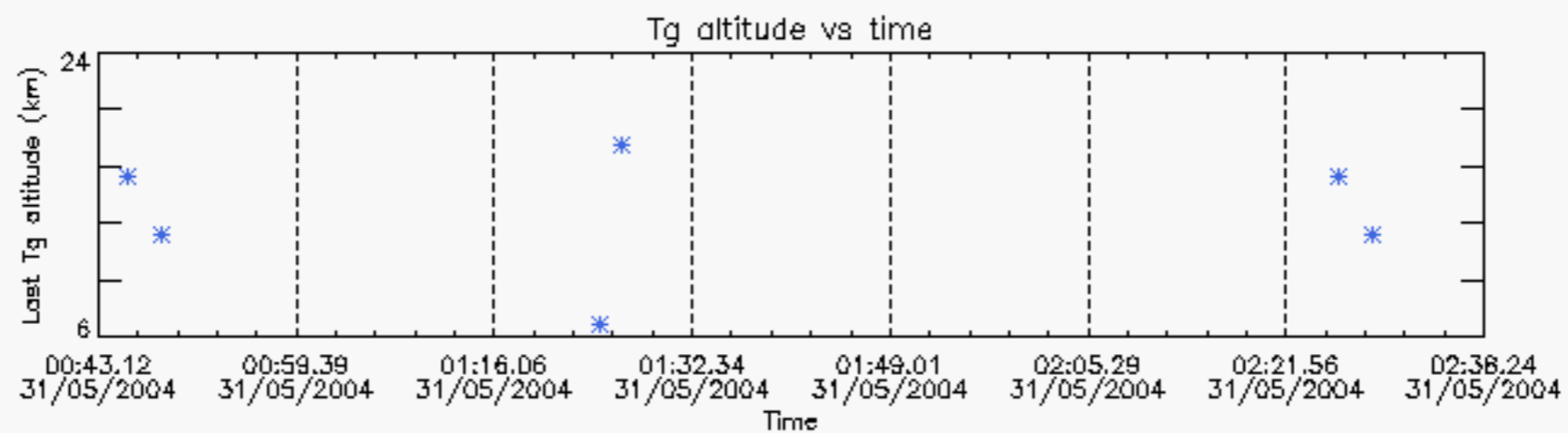
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL__0PNPDK20040501_054516_000060832026_00263_11339_0529.N1

1;	-4310.1;	01-MAY-2004	05:45:16;	Bright;	48.5;	104;	27Bet Lib	;	2.61;	13100;occ;	97;	0;	11339
2;	-4139.5;	01-MAY-2004	05:48:07;	Bright;	36.5;	121;	29Gam Vir	;	2.74;	7200;occ;	73;	0;	11339
3;	-3940.9;	01-MAY-2004	05:51:25;	Bright;	37.0;	138;	47Eps Vir	;	2.83;	4700;occ;	74;	0;	11339
4;	-3804.9;	01-MAY-2004	05:53:41;	Bright;	39.0;	111;	8Eta Boo	;	2.68;	6000;occ;	78;	0;	11339
5;	-3585.7;	01-MAY-2004	05:57:21;	Bright;	43.0;	83;		;	2.38;	11000;occ;	86;	0;	11339
6;	-3477.6;	01-MAY-2004	05:59:09;	Bright;	37.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	75;	0;	11339
7;	-3306.6;	01-MAY-2004	06:02:00;	Bright;	36.0;	174;	52Psi UMa	;	3.00;	4400;occ;	72;	0;	11339
8;	-3203.1;	01-MAY-2004	06:03:43;	Bright;	37.0;	87;	64Gam UMa	;	2.43;	11000;occ;	74;	0;	11339
9;	-3118.2;	01-MAY-2004	06:05:08;	Bright;	38.0;	82;	48Bet UMa	;	2.37;	10600;occ;	76;	0;	11339
10;	-3040.1;	01-MAY-2004	06:06:26;	Bright;	40.0;	36;	50Alp UMa	;	1.80;	6300;occ;	80;	0;	11339
11;	-2819.8;	01-MAY-2004	06:10:06;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;	11339
12;	-2592.8;	01-MAY-2004	06:13:53;	Bright;	37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	11339
13;	-2211.3;	01-MAY-2004	06:20:15;	Bright;	43.0;	89;	5Alp Cep	;	2.45;	8000;occ;	86;	0;	11339
14;	-2113.5;	01-MAY-2004	06:21:53;	Bright;	38.5;	76;	27Gam Cas	;	2.30;	30000;occ;	77;	0;	11339
15;	-2036.9;	01-MAY-2004	06:23:09;	Bright;	38.5;	68;	18Alp Cas	;	2.22;	4500;occ;	77;	0;	11339
16;	-1900.0;	01-MAY-2004	06:25:26;	Bright;	61.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	122;	0;	11339
17;	-1782.6;	01-MAY-2004	06:27:24;	Bright;	77.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	155;	0;	11339
18;	-1563.0;	01-MAY-2004	06:31:03;	Dark	;	92;	53Eps Cyg	;	2.50;	4500;occ;	152;	0;	11339
19;	-1261.8;	01-MAY-2004	06:36:04;	Dark	;	90;	54Alp Peg	;	2.49;	11000;occ;	101;	0;	11339
20;	-998.9;	01-MAY-2004	06:40:27;	Dark	;	61;	8Eps Peg	;	2.10;	3900;occ;	146;	0;	11339
21;	-792.7;	01-MAY-2004	06:43:53;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	90;	0;	11339
22;	-628.3;	01-MAY-2004	06:46:38;	Dark	;	154;	22Bet Aqr	;	2.90;	5700;occ;	140;	0;	11339
23;	-490.7;	01-MAY-2004	06:48:56;	Dark	;	18;	24Alp PsA	;	1.17;	9700;occ;	93;	0;	11339
24;	-361.7;	01-MAY-2004	06:51:05;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	11339
25;	-233.8;	01-MAY-2004	06:53:12;	Dark	;	172;	Gam Gru	;	3.00;	13100;occ;	87;	0;	11339
26;	-144.2;	01-MAY-2004	06:54:42;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	92;	0;	11339
27;	11.1;	01-MAY-2004	06:57:17;	Dark	;	148;	Alp Tuc	;	2.88;	4100;occ;	102;	0;	11340
28;	185.4;	01-MAY-2004	07:00:12;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	85;	0;	11340
29;	579.0;	01-MAY-2004	07:06:45;	Dark	;	43;	Alp TrA	;	1.91;	4250;occ;	86;	0;	11340
30;	698.6;	01-MAY-2004	07:08:45;	Dark	;	38;	20Eps Sgr	;	1.84;	11000;occ;	145;	0;	11340
31;	871.5;	01-MAY-2004	07:11:38;	Dark	;	10;	Bet Cen	;	0.61;	28000;occ;	84;	0;	11340
32;	999.1;	01-MAY-2004	07:13:45;	Dark	;	77;	Eps Cen	;	2.30;	28000;occ;	79;	0;	11340
33;	1106.1;	01-MAY-2004	07:15:32;	Dark	;	64;	Gam Cen	;	2.20;	10600;occ;	83;	0;	11340
34;	1267.9;	01-MAY-2004	07:18:14;	Dark	;	16;	21Alp Sco	;	1.02;	3000;occ;	140;	0;	11340
35;	1401.7;	01-MAY-2004	07:20:28;	Dark	;	80;	7Del Sco	;	2.32;	30000;occ;	124;	0;	11340
36;	1590.3;	01-MAY-2004	07:23:37;	Bright;	46.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	92;	0;	11340
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2;	-4445.5;	02-MAY-2004	00:09:36;	Bright;	46.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	93;	0;	11350	
3;	-4311.3;	02-MAY-2004	00:11:50;	Bright;	50.0;	104;	27Bet Lib	;	2.61;	13100;occ;	100;	0;	11350	
4;	-4137.9;	02-MAY-2004	00:14:43;	Bright;	37.5;	121;	29Gam Vir	;	2.74;	7200;occ;	75;	0;	11350	
5;	-3940.7;	02-MAY-2004	00:18:01;	Bright;	36.5;	138;	47Eps Vir	;	2.83;	4700;occ;	73;	0;	11350	
6;	-3806.8;	02-MAY-2004	00:20:14;	Bright;	39.5;	111;	8Eta Boo	;	2.68;	6000;occ;	79;	0;	11350	
7;	-3591.2;	02-MAY-2004	00:23:50;	Bright;	46.5;	83;		;	2.38;	11000;occ;	93;	0;	11350	
8;	-3477.6;	02-MAY-2004	00:25:44;	Bright;	38.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	77;	0;	11350	
9;	-3303.3;	02-MAY-2004	00:28:38;	Bright;	53.0;	174;	52Psi UMa	;	3.00;	4400;occ;	106;	0;	11350	
10;	-3201.4;	02-MAY-2004	00:30:20;	Bright;	36.5;	87;	64Gam UMa	;	2.43;	11000;occ;	73;	0;	11350	
11;	-3115.0;	02-MAY-2004	00:31:46;	Bright;	38.5;	82;	48Bet UMa	;	2.37;	10600;occ;	77;	0;	11350	
12;	-3037.4;	02-MAY-2004	00:33:04;	Bright;	39.0;	36;	50Alp UMa	;	1.80;	6300;occ;	78;	0;	11350	
13;	-2822.5;	02-MAY-2004	00:36:39;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;	11350	
14;	-2592.5;	02-MAY-2004	00:40:29;	Bright;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	11350	
15;	-2214.5;	02-MAY-2004	00:46:47;	Bright;	41.5;	89;	5Alp Cep	;	2.45;	8000;occ;	83;	0;	11350	
16;	-2116.1;	02-MAY-2004	00:48:25;	Bright;	46.0;	110;	37Del Cas	;	2.68;	8900;occ;	92;	0;	11350	
17;	-2035.2;	02-MAY-2004	00:49:46;	Bright;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	11350	
18;	-1904.4;	02-MAY-2004	00:51:57;	Bright;	62.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	125;	0;	11350	
19;	-1786.9;	02-MAY-2004	00:53:54;	Bright;	78.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	156;	0;	11350	
20;	-1562.5;	02-MAY-2004	00:57:39;	Dark	;	82.5;	92;	53Eps Cyg	;	2.50;	4500;occ;	165;	0;	11350
21;	-1256.9;	02-MAY-2004	01:02:44;	Dark	;	47.0;	90;	54Alp Peg	;	2.49;	11000;occ;	94;	0;	11350
22;	-988.7;	02-MAY-2004	01:07:13;	Dark	;	68.5;	61;	8Eps Peg	;	2.10;	3900;occ;	137;	0;	11350
23;	-791.9;	02-MAY-2004	01:10:29;	Dark	;	43.5;	52;	16Bet Cet	;	2.04;	4500;occ;	87;	0;	11350
24;	-612.5;	02-MAY-2004	01:13:29;	Dark	;	66.0;	154;	22Bet Aqr	;	2.90;	5700;occ;	132;	0;	11350
25;	-485.1;	02-MAY-2004	01:15:36;	Dark	;	44.0;	18;	24Alp PsA	;	1.17;	9700;occ;	88;	0;	11350
26;	-354.9;	02-MAY-2004	01:17:46;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	11350
27;	-138.3;	02-MAY-2004	01:21:23;	Dark	;	45.0;	31;	Alp Gru	;	1.73;	15200;occ;	90;	0;	11350
28;	191.8;	02-MAY-2004	01:26:53;	Dark	;	43.0;	45;	Alp Pav	;	1.94;	26000;occ;	86;	0;	11351
29;	581.6;	02-MAY-2004	01:33:23;	Dark	;	41.0;	43;	Alp TrA	;	1.91;	4250;occ;	82;	0;	11351

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31; 835.8; 02-MAY-2004 01:37:37; Dark ; 50.5; 4; Alp1Cen ;-0.01; 5800;occ; 101; 0;11351
32; 925.8; 02-MAY-2004 01:39:07; Dark ; 39.0; 20; Bet Cru ; 1.25; 30000;occ; 78; 0;11351
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34; 1133.8; 02-MAY-2004 01:42:35; Dark ; 43.0; 81; Eta Cen ; 2.36; 28000;occ; 86; 0;11351
35; 1272.7; 02-MAY-2004 01:44:54; Dark ; 72.5; 16; 21Alp Sco ; 1.02; 3000;occ; 145; 0;11351
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 2;-4445.3; 02-MAY-2004 01:50:12; Bright; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;11351
 3;-4311.5; 02-MAY-2004 01:52:26; Bright; 49.0; 104; 27Bet Lib ; 2.61; 13100;occ; 98; 0;11351
 4;-4138.7; 02-MAY-2004 01:55:18; Bright; 39.0; 121; 29Gam Vir ; 2.74; 7200;occ; 78; 0;11351
 5;-3940.8; 02-MAY-2004 01:58:36; Bright; 37.5; 138; 47Eps Vir ; 2.83; 4700;occ; 75; 0;11351
 6;-3807.2; 02-MAY-2004 02:00:50; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;11351
 7;-3591.9; 02-MAY-2004 02:04:25; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;11351
 8;-3477.8; 02-MAY-2004 02:06:19; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;11351
 9;-3302.8; 02-MAY-2004 02:09:14; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;11351
10;-3201.8; 02-MAY-2004 02:10:55; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;11351
11;-3114.5; 02-MAY-2004 02:12:23; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;11351
12;-3037.7; 02-MAY-2004 02:13:39; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;11351
13;-2823.0; 02-MAY-2004 02:17:14; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;11351
14;-2593.1; 02-MAY-2004 02:21:04; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;11351
15;-2215.3; 02-MAY-2004 02:27:22; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;11351
16;-2116.8; 02-MAY-2004 02:29:00; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;11351
17;-2035.6; 02-MAY-2004 02:30:21; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;11351
18;-1904.7; 02-MAY-2004 02:32:32; Bright; 60.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 121; 0;11351
19;-1787.0; 02-MAY-2004 02:34:30; Bright; 78.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 157; 0;11351
20;-1562.4; 02-MAY-2004 02:38:15; Dark ; 85.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 171; 0;11351
21;-1257.0; 02-MAY-2004 02:43:20; Dark ; 50.0; 90; 54Alp Peg ; 2.49; 11000;occ; 100; 0;11351
22; -987.4; 02-MAY-2004 02:47:50; Dark ; 70.0; 61; 8Eps Peg ; 2.10; 3900;occ; 140; 0;11351
23; -792.0; 02-MAY-2004 02:51:05; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;11351
24; -611.1; 02-MAY-2004 02:54:06; Dark ; 65.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 130; 0;11351
25; -484.8; 02-MAY-2004 02:56:12; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;11351
26; -354.2; 02-MAY-2004 02:58:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11351
27; -224.8; 02-MAY-2004 03:00:32; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;11351
28; -137.6; 02-MAY-2004 03:02:00; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;11351
29; 191.9; 02-MAY-2004 03:07:29; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;11352
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31; 712.1; 02-MAY-2004 03:16:09; Dark ; 43.0; 134; Bet TrA ; 2.81; 6600;occ; 86; 0;11352
32; 836.1; 02-MAY-2004 03:18:13; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;11352
33; 925.6; 02-MAY-2004 03:19:43; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;11352
34; 1039.8; 02-MAY-2004 03:21:37; Dark ; 44.5; 78; Alp Lup ; 2.30; 28000;occ; 89; 0;11352
35; 1134.1; 02-MAY-2004 03:23:11; Dark ; 41.5; 81; Eta Cen ; 2.36; 28000;occ; 83; 0;11352
36; 1273.8; 02-MAY-2004 03:25:31; Dark ; 70.5; 16; 21Alp Sco ; 1.02; 3000;occ; 141; 0;11352
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 5;-3807.8; 02-MAY-2004 03:41:25; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;11352
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 7;-3478.3; 02-MAY-2004 03:46:55; Bright; 36.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 73; 0;11352
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 9;-3201.2; 02-MAY-2004 03:51:32; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;11352
10;-3114.4; 02-MAY-2004 03:52:59; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;11352
11;-3037.4; 02-MAY-2004 03:54:16; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;11352
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15;-2116.2; 02-MAY-2004 04:09:37; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;11352
16;-2035.5; 02-MAY-2004 04:10:58; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;11352
17;-1905.3; 02-MAY-2004 04:13:08; Bright; 62.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 125; 0;11352
18;-1787.3; 02-MAY-2004 04:15:06; Bright; 82.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 164; 0;11352
19;-1562.3; 02-MAY-2004 04:18:51; Dark ; 87.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 174; 0;11352
20;-1256.6; 02-MAY-2004 04:23:57; Dark ; 48.0; 90; 54Alp Peg ; 2.49; 11000;occ; 96; 0;11352
21; -986.8; 02-MAY-2004 04:28:26; Dark ; 71.5; 61; 8Eps Peg ; 2.10; 3900;occ; 143; 0;11352
22; -791.2; 02-MAY-2004 04:31:42; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;11352

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25; -353.6; 02-MAY-2004 04:39:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11352
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28; 192.6; 02-MAY-2004 04:48:06; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;11353
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31; 836.3; 02-MAY-2004 04:58:49; Dark ; 50.5; 4; Alp1Cen ; -0.01; 5800;occ; 101; 0;11353
32; 925.9; 02-MAY-2004 05:00:19; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;11353
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7;	-4016.1;	24-MAY-2004	17:11:26;	Bright	;	41.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	82;	0;	11675
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23;	-1088.8;	24-MAY-2004	18:00:14;	Dark	;	70.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	141;	0;	11675
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25;	-423.7;	24-MAY-2004	18:11:19;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	11675
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7;	-4301.0;	24-MAY-2004	18:47:17;	Bright	;	39.0;	104;	27Bet	Lib	;	2.61;	13100;	occ;	78;	0;	11676
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28; 487.3; 31-MAY-2004 18:06:23; Dark ; 45.5; 45; Alp Pav ; 1.94; 26000;occ; 91; 0;11776
29; 705.3; 31-MAY-2004 18:10:01; Dark ; 43.5; 43; Alp TrA ; 1.91; 4250;occ; 87; 0;11776
30; 829.2; 31-MAY-2004 18:12:05; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;11776
31; 933.9; 31-MAY-2004 18:13:50; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;11776
32; 1035.1; 31-MAY-2004 18:15:31; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;11776

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