

GOMOS Daily Report 16-MAY-2004

Level 0 and Level 1 products

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 \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[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](#)

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

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

[Level 2 products](#)

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	20MAY2004 03:54:53
Data source version	GOMOS/4.02
Start time of products	16-MAY-2004 (16MAY2004 00:00:00)
Stop time of products	17-MAY-2004 (17MAY2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	2

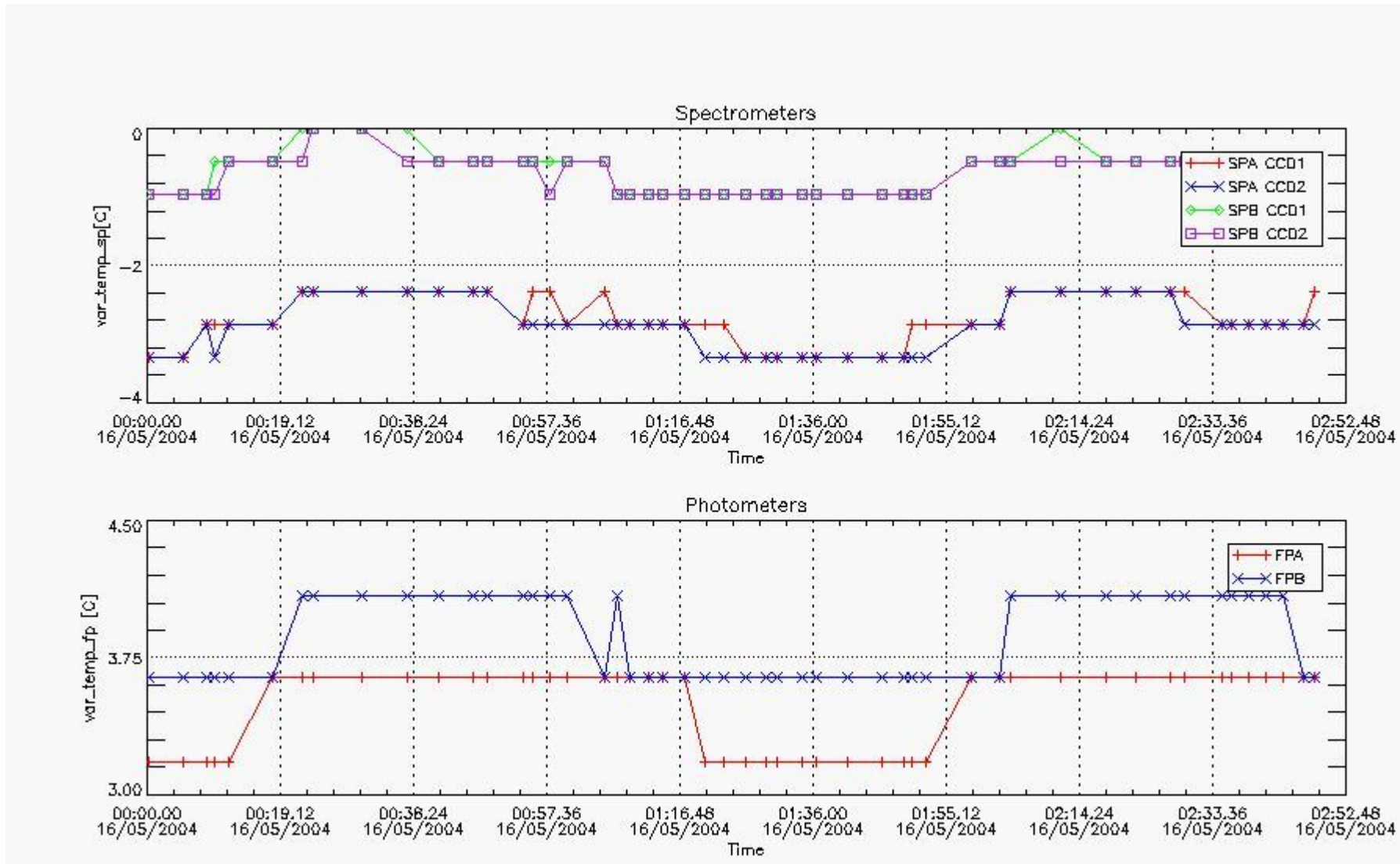
2. Summary of products arrived in PCF

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_1PNPDE20040516_000017_000000392026_00474_11550_0013.N1	16-MAY-2004 00:00:17	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	11550	No
GOM_TRA_1PNPDE20040516_000518_000000462026_00474_11550_0014.N1	16-MAY-2004 00:05:18	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	11550	No
GOM_TRA_1PNPDE20040516_000829_000000532026_00474_11550_0015.N1	16-MAY-2004 00:08:29	Bright	53.000	76	27Gam Cas	2.3000	30000.	106	11550	No
GOM_TRA_1PNPDE20040516_000943_000000532026_00474_11550_0016.N1	16-MAY-2004 00:09:43	Bright	53.000	68	18Alp Cas	2.2250	4500.0	106	11550	No
GOM_TRA_1PNPDE20040516_001140_000001062026_00474_11550_0017.N1	16-MAY-2004 00:11:40	Bright	106.00	66	37Gam Cyg	2.2080	5900.0	212	11550	No
GOM_TRA_1PNPDE20040516_001807_000000482026_00474_11550_0018.N1	16-MAY-2004 00:18:07	Twilight	48.000	58	21Alp And	2.0730	11000.	96	11550	No
GOM_TRA_1PNPDE20040516_002217_000000452026_00474_11550_0019.N1	16-MAY-2004 00:22:17	Twilight	45.000	140	88Gam Peg	2.8340	26000.	90	11550	No
GOM_TRA_1PNPDE20040516_002356_000000582026_00474_11550_0020.N1	16-MAY-2004 00:23:56	Dark	57.500	90	54Alp Peg	2.4870	11000.	115	11550	No
GOM_TRA_1PNPDE20040516_003100_000000462026_00474_11550_0021.N1	16-MAY-2004 00:31:00	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	11550	No
GOM_TRA_1PNPDE20040516_003735_000000542026_00474_11550_0022.N1	16-MAY-2004 00:37:35	Dark	53.500	18	24Alp PsA	1.1660	9700.0	107	11550	No
GOM_TRA_1PNPDE20040516_004155_000000492026_00474_11550_0023.N1	16-MAY-2004 00:41:55	Dark	48.500	63	Bet Gru	2.1500	2800.0	97	11550	No
GOM_TRA_1PNPDE20040516_004659_000000392026_00475_11551_0024.N1	16-MAY-2004 00:46:59	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	11551	No
GOM_TRA_1PNPDE20040516_004857_000000452026_00475_11551_0025.N1	16-MAY-2004 00:48:57	Dark	45.000	45	Alp Pav	1.9400	26000.	90	11551	No
GOM_TRA_1PNPDE20040516_005414_000000432026_00475_11551_0026.N1	16-MAY-2004 00:54:14	Dark	43.000	43	Alp TrA	1.9100	4250.0	86	11551	No
GOM_TRA_1PNPDE20040516_005540_000000392026_00475_11551_0027.N1	16-MAY-2004 00:55:40	Twilight	38.500	145	Gam TrA	2.8720	10600.	77	11551	No
GOM_TRA_1PNPDE20040516_005808_000000522026_00475_11551_0028.N1	16-MAY-2004 00:58:08	Twilight	52.000	4	Alp1Cen	-0.010000	5800.0	104	11551	No
GOM_TRA_1PNPDE20040516_010035_000000562026_00475_11551_0029.N1	16-MAY-2004 01:00:35	Bright	55.500	25	35Lam Sco	1.6200	28000.	111	11551	No
GOM_TRA_1PNPDE20040516_010559_000000642026_00475_11551_0000.N1	16-MAY-2004 01:05:59	Bright	64.000	16	21Alp Sco	1.0200	3000.0	128	11551	Yes
GOM_TRA_1PNPDE20040516_010742_000000502026_00475_11551_0001.N1	16-MAY-2004 01:07:42	Bright	49.500	80	7Del Sco	2.3160	30000.	99	11551	No
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GOM_TRA_1PNPDE20040516_011423_000000512026_00475_11551_0004.N1	16-MAY-2004 01:14:23	Bright	51.000	120	1Del Oph	2.7340	3200.0	102	11551	No
GOM_TRA_1PNPDE20040516_011734_000000452026_00475_11551_0005.N1	16-MAY-2004 01:17:34	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	11551	No
GOM_TRA_1PNPDE20040516_012030_000000372026_00475_11551_0006.N1	16-MAY-2004 01:20:30	Bright	37.000	111	8Eta Boo	2.6800	6000.0	74	11551	No
GOM_TRA_1PNPDE20040516_012309_000000422026_00475_11551_0007.N1	16-MAY-2004 01:23:09	Bright	41.500	83		2.3780	11000.	83	11551	No
GOM_TRA_1PNPDE20040516_012617_000000402026_00475_11551_0008.N1	16-MAY-2004 01:26:17	Bright	40.000	180	27Gam Boo	3.0400	8000.0	80	11551	No
GOM_TRA_1PNPDE20040516_012910_000000412026_00475_11551_0009.N1	16-MAY-2004 01:29:10	Bright	40.500	39	85Eta UMa	1.8540	24000.	81	11551	No
GOM_TRA_1PNPDE20040516_013049_000000352026_00475_11551_0010.N1	16-MAY-2004 01:30:49	Bright	35.000	55	79Zet UMa	2.0600	10200.	70	11551	No
GOM_TRA_1PNPDE20040516_013430_000000402026_00475_11551_0011.N1	16-MAY-2004 01:34:30	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	11551	No
GOM_TRA_1PNPDE20040516_013630_000000372026_00475_11551_0012.N1	16-MAY-2004 01:36:30	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	11551	No
GOM_TRA_1PNPDE20040516_014053_000000382026_00475_11551_0013.N1	16-MAY-2004 01:40:53	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	11551	No
GOM_TRA_1PNPDE20040516_014554_000000472026_00475_11551_0014.N1	16-MAY-2004 01:45:54	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	11551	No
GOM_TRA_1PNPDE20040516_014905_000000532026_00475_11551_0015.N1	16-MAY-2004 01:49:05	Bright	53.000	76	27Gam Cas	2.3000	30000.	106	11551	No
GOM_TRA_1PNPDE20040516_015019_000000402026_00475_11551_0016.N1	16-MAY-2004 01:50:19	Bright	40.000	68	18Alp Cas	2.2250	4500.0	80	11551	No
GOM_TRA_1PNPDE20040516_015215_000001052026_00475_11551_0017.N1	16-MAY-2004 01:52:15	Bright	105.00	66	37Gam Cyg	2.2080	5900.0	210	11551	No
GOM_TRA_1PNPDE20040516_015842_000000482026_00475_11551_0018.N1	16-MAY-2004 01:58:42	Twilight	47.500	58	21Alp And	2.0730	11000.	95	11551	No
GOM_TRA_1PNPDE20040516_020253_000000442026_00475_11551_0019.N1	16-MAY-2004 02:02:53	Twilight	43.500	140	88Gam Peg	2.8340	26000.	87	11551	No
GOM_TRA_1PNPDE20040516_020433_000000582026_00475_11551_0020.N1	16-MAY-2004 02:04:33	Dark	57.500	90	54Alp Peg	2.4870	11000.	115	11551	No
GOM_TRA_1PNPDE20040516_021135_000000462026_00475_11551_0021.N1	16-MAY-2004 02:11:35	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	11551	No
GOM_TRA_1PNPDE20040516_021811_000000562026_00475_11551_0022.N1	16-MAY-2004 02:18:11	Dark	56.000	18	24Alp PsA	1.1660	9700.0	112	11551	No
GOM_TRA_1PNPDE20040516_022232_000000572026_00475_11551_0023.N1	16-MAY-2004 02:22:32	Dark	57.000	63	Bet Gru	2.1500	2800.0	114	11551	No
GOM_TRA_1PNPDE20040516_022735_000000392026_00476_11552_0024.N1	16-MAY-2004 02:27:35	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	11552	No
GOM_TRA_1PNPDE20040516_022932_000000472026_00476_11552_0025.N1	16-MAY-2004 02:29:32	Dark	46.500	45	Alp Pav	1.9400	26000.	93	11552	No
GOM_TRA_1PNPDE20040516_023452_000000452026_00476_11552_0026.N1	16-MAY-2004 02:34:52	Dark	44.500	43	Alp TrA	1.9100	4250.0	89	11552	No
GOM_TRA_1PNPDE20040516_023617_000000392026_00476_11552_0027.N1	16-MAY-2004 02:36:17	Twilight	39.000	145	Gam TrA	2.8720	10600.	78	11552	No
GOM_TRA_1PNPDE20040516_023845_000000522026_00476_11552_0028.N1	16-MAY-2004 02:38:45	Twilight	52.000	4	Alp1Cen	-0.010000	5800.0	104	11552	No
GOM_TRA_1PNPDE20040516_024112_000000552026_00476_11552_0029.N1	16-MAY-2004 02:41:12	Bright	54.500	25	35Lam Sco	1.6200	28000.	109	11552	No
GOM_TRA_1PNPDE20040516_024350_000000412026_00476_11552_0030.N1	16-MAY-2004 02:43:50	Bright	40.500	81	Eta Cen	2.3560	28000.	81	11552	No
GOM_TRA_1PNPDE20040516_024636_000000592026_00476_11552_0031.N1	16-MAY-2004 02:46:36	Bright	59.000	16	21Alp Sco	1.0200	3000.0	118	11552	No

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



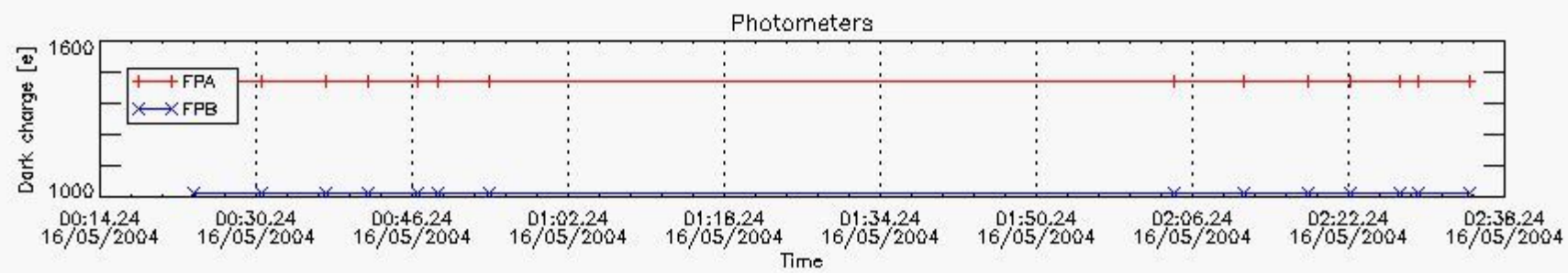
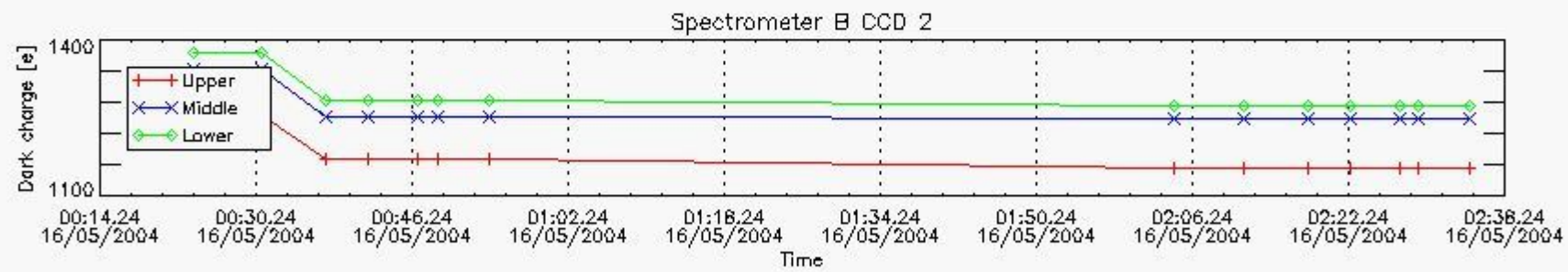
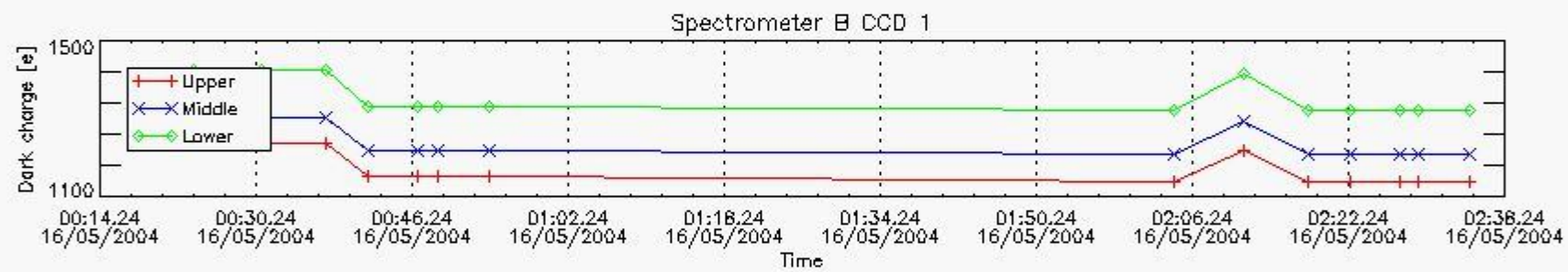
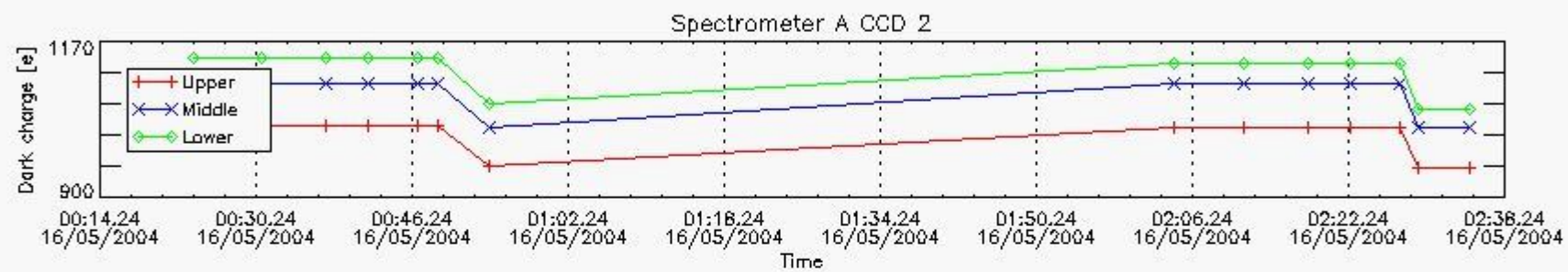
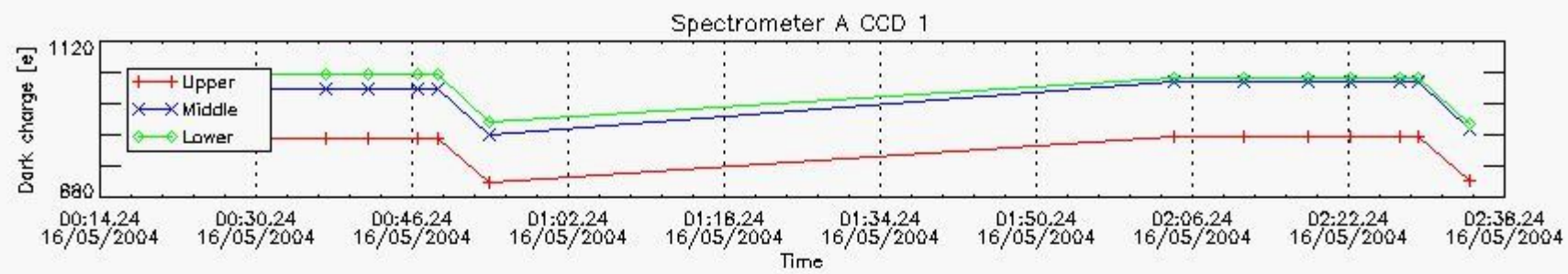
4. Overview of dark signal processing per product

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



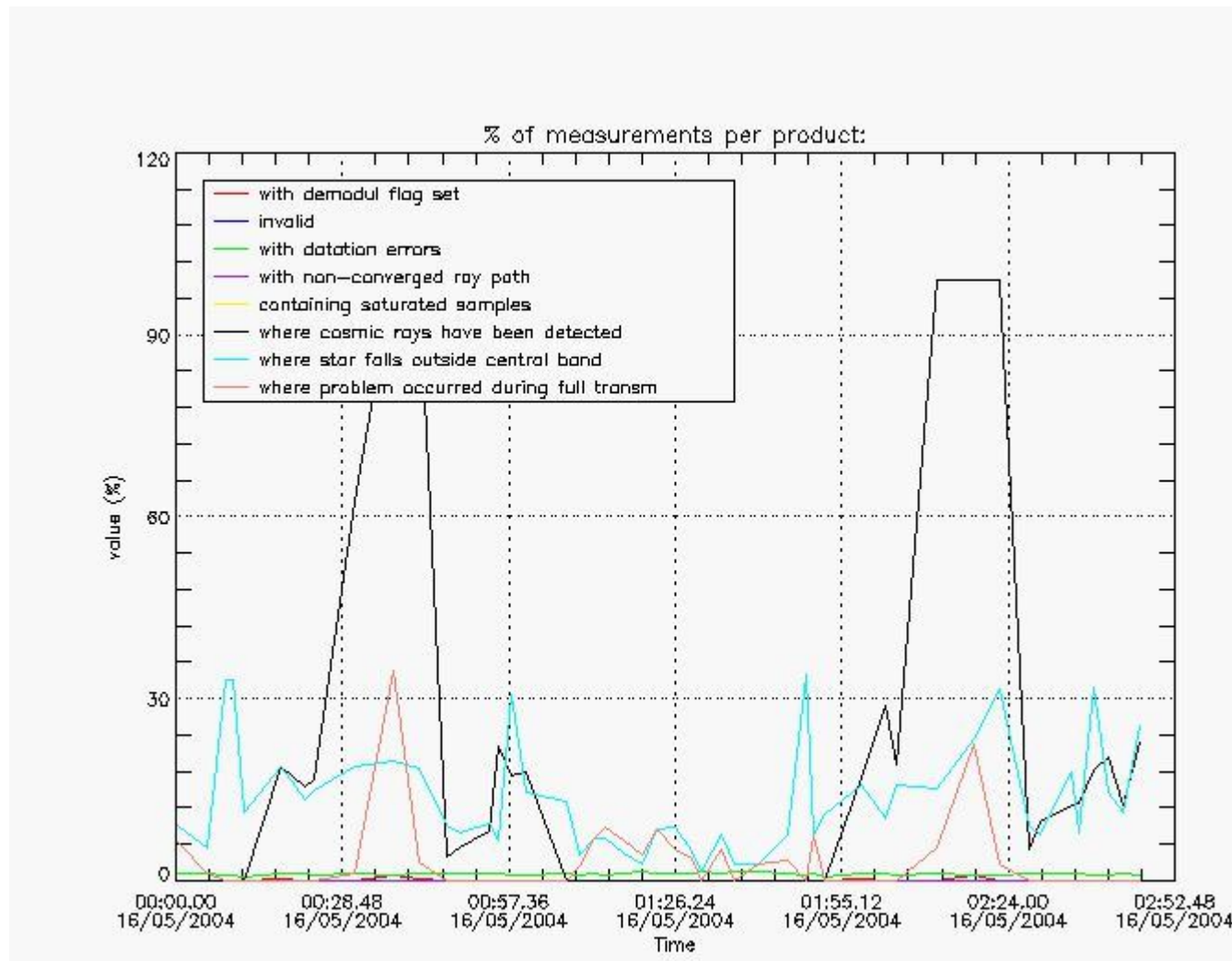
5. Demodulation flag and quality information monitoring

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:

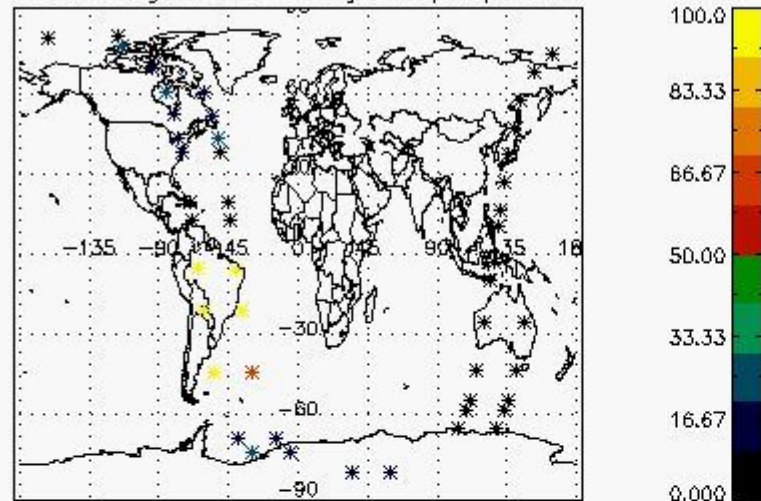
At least one measurement with demodulation flag set:	14.5833 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

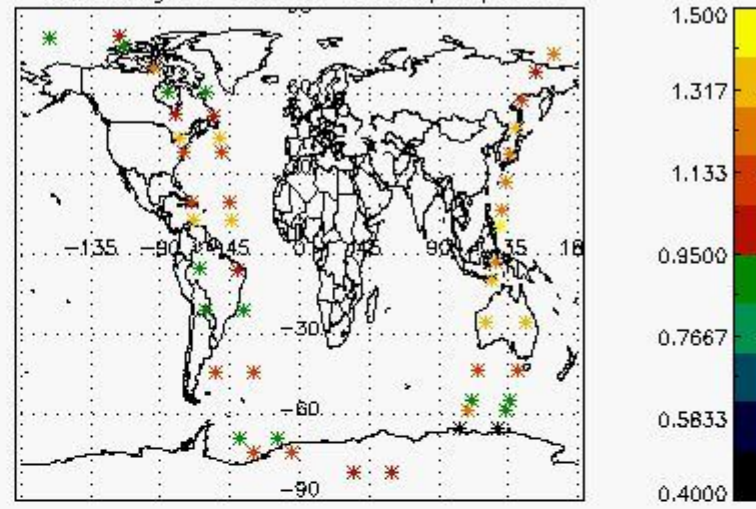


5.3 Plot quality information per product (world map)

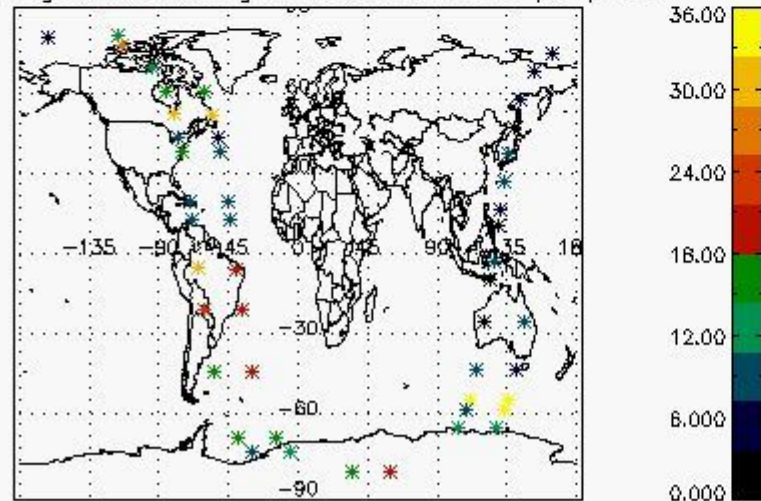
Percentage of cosmic ray hits per profile



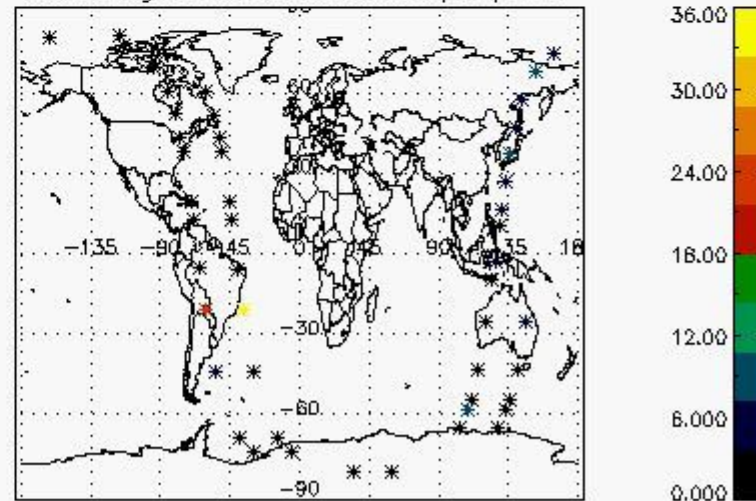
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



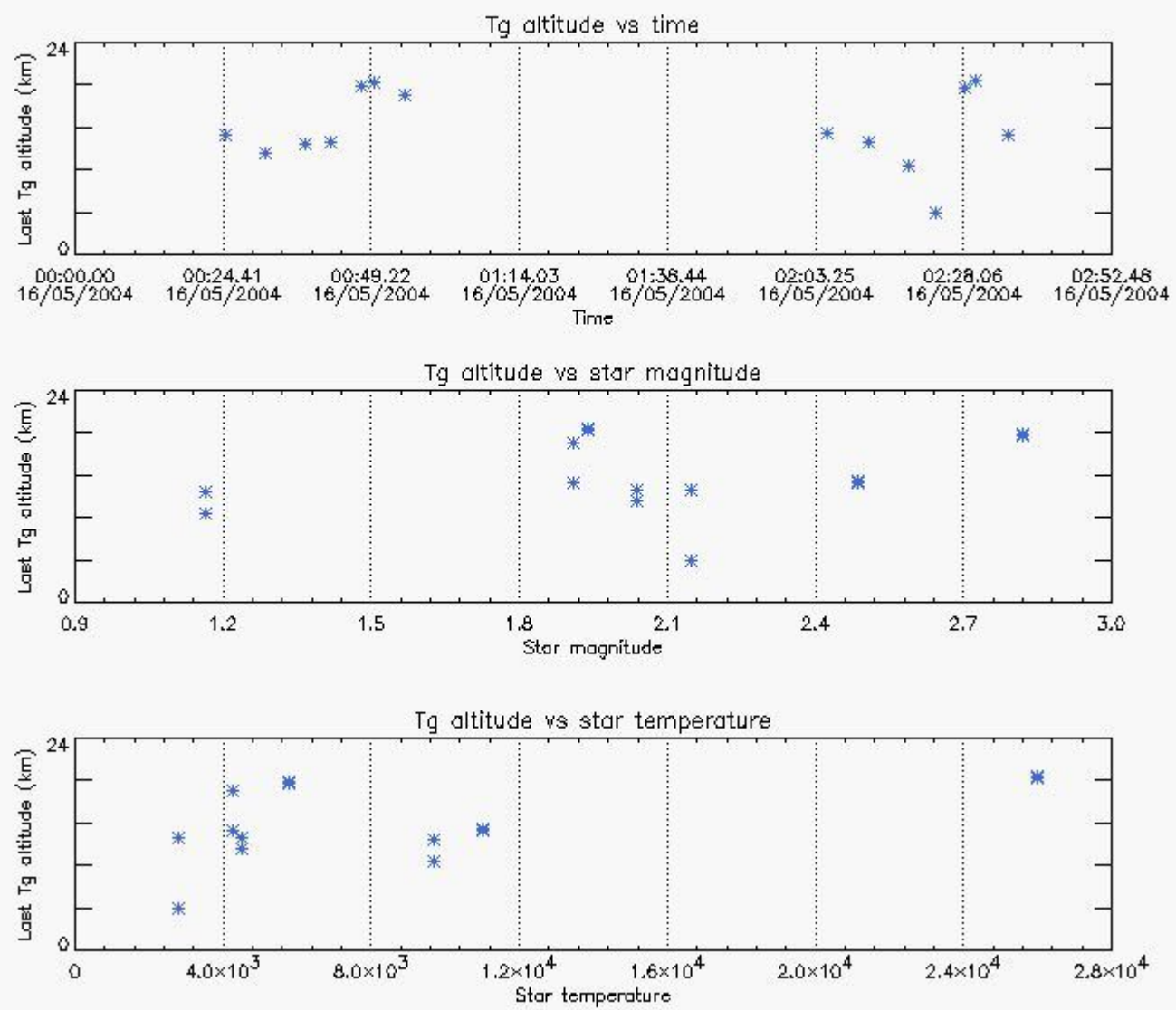
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.291	17.666	13.162
St. deviation:	4.3212	5.8818	5.8267
Maximum:	19.702	27.186	20.368
Minimum:	4.6585	5.1338	4.7738
Number of data:	14.000	26.000	8.0000

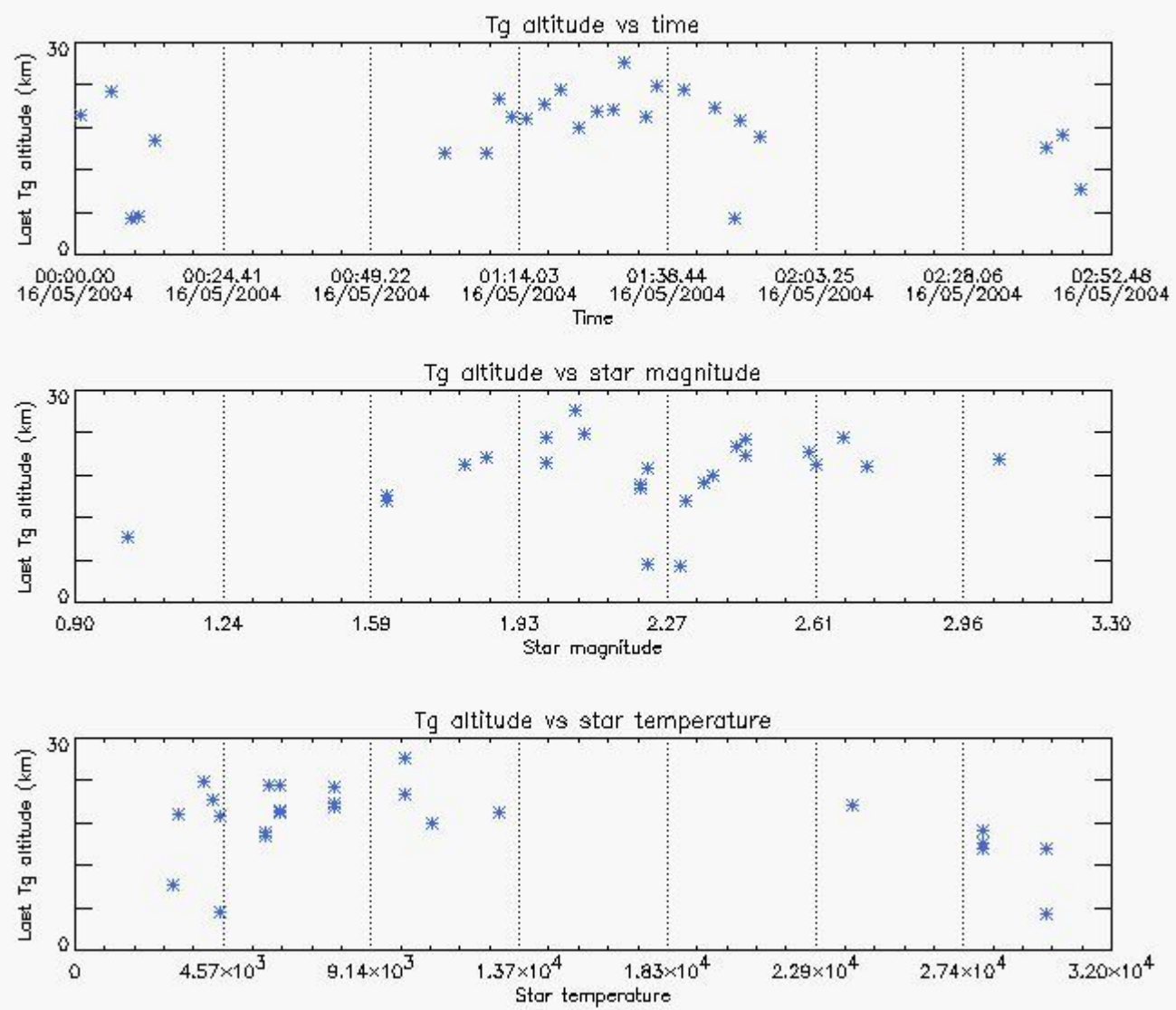
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



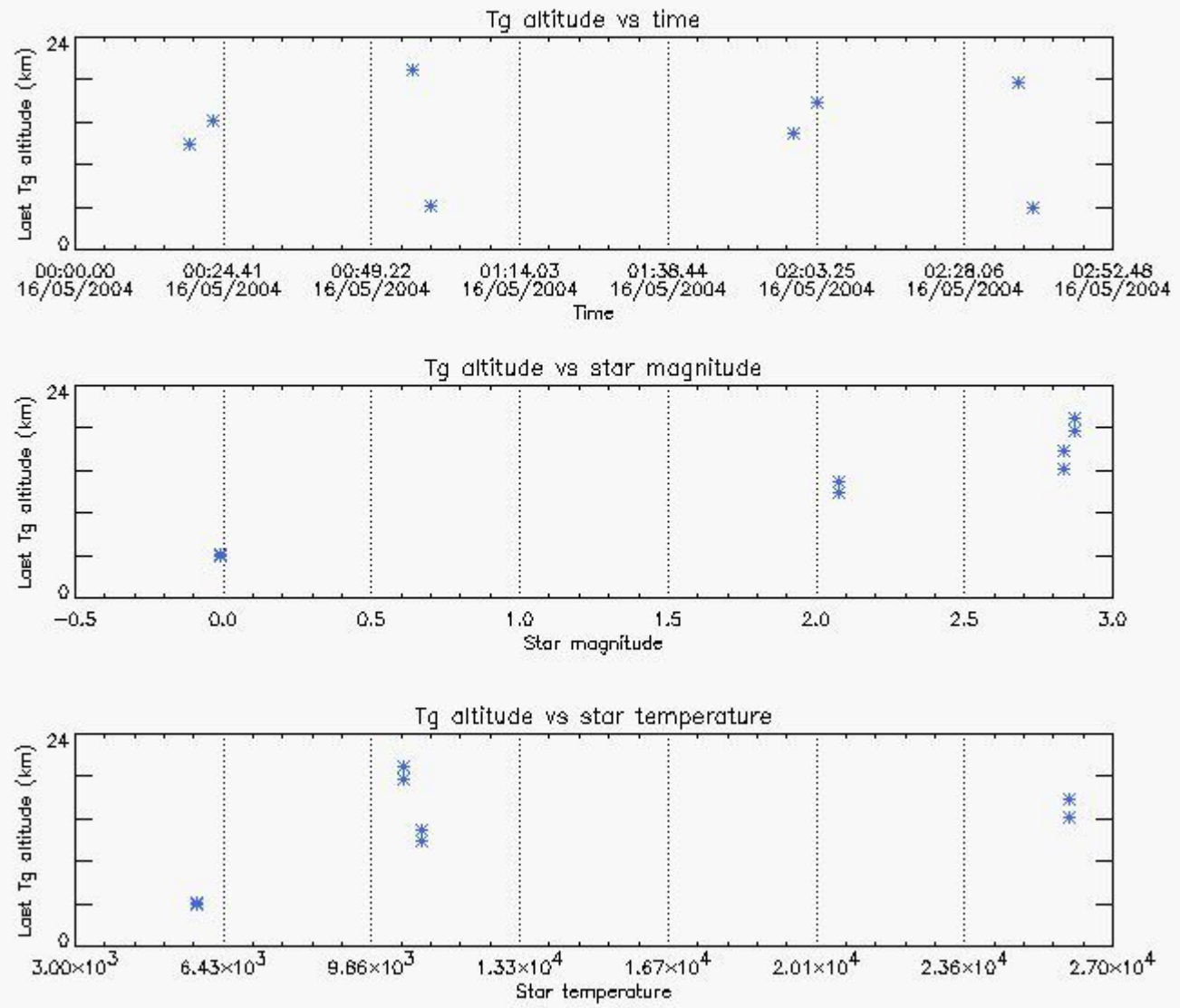
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

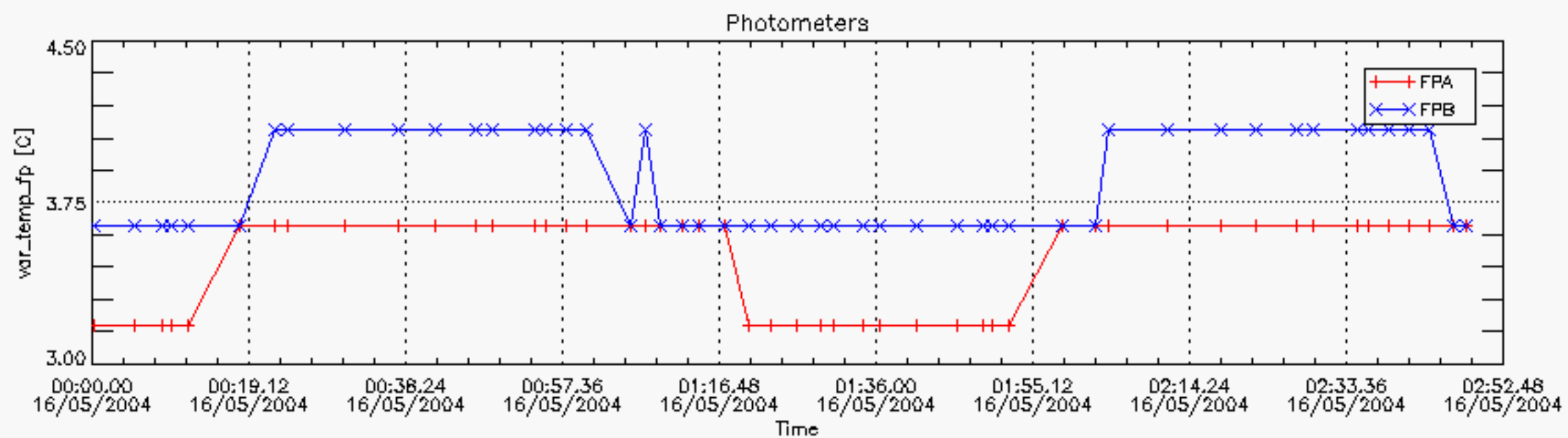
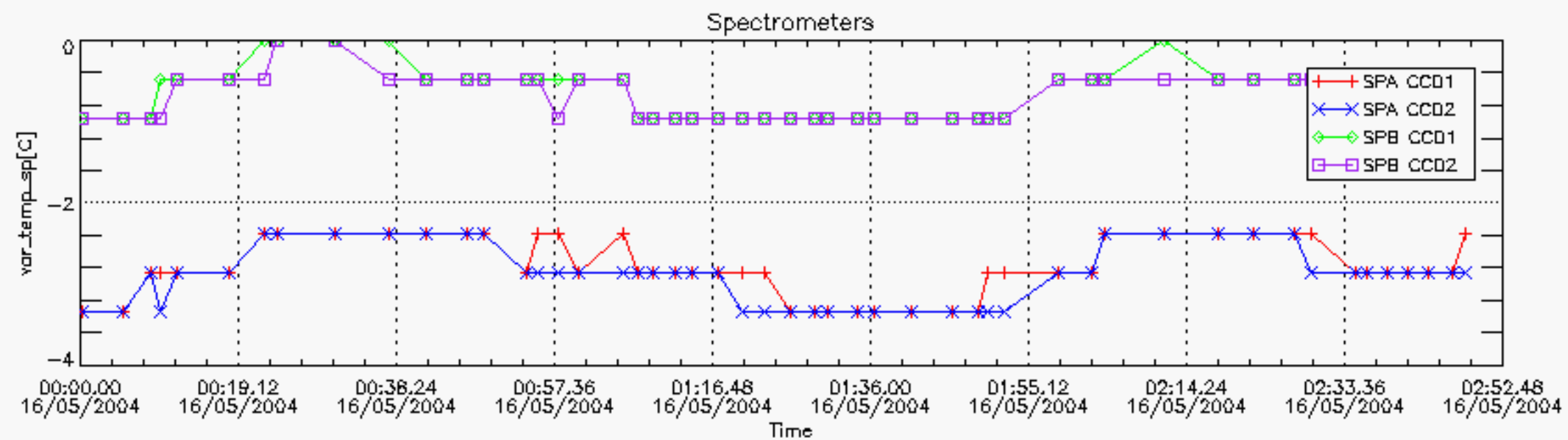
Tangent altitude at which the star is lost

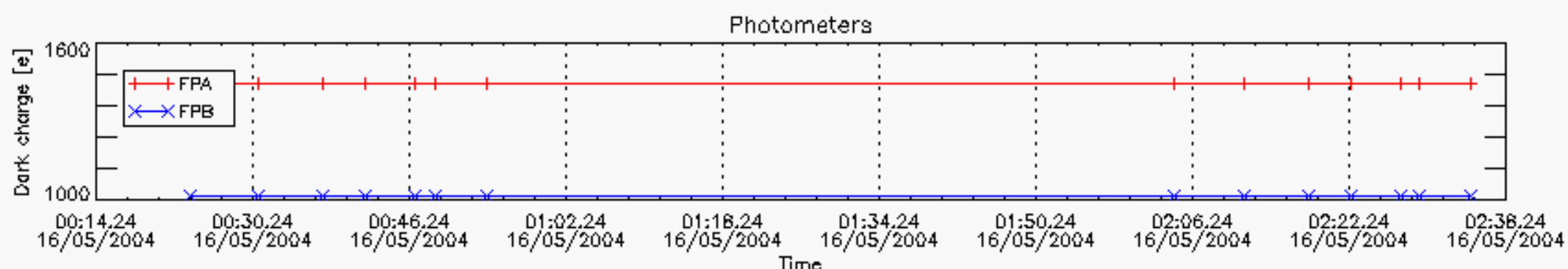
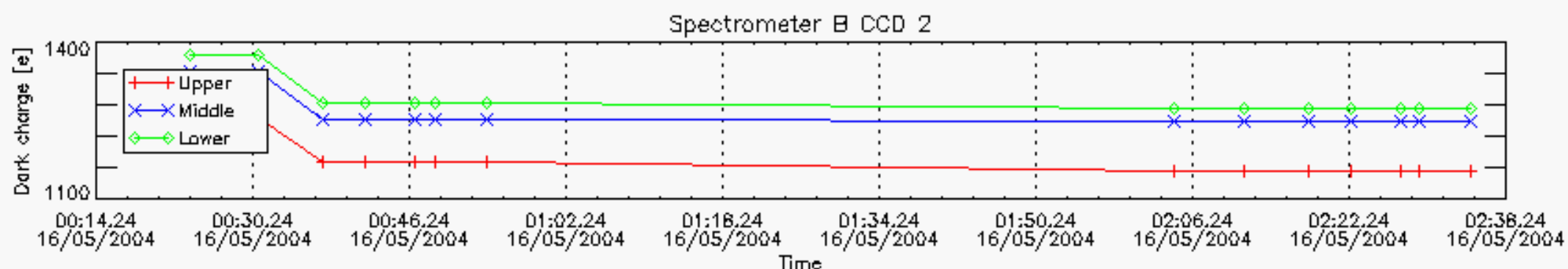
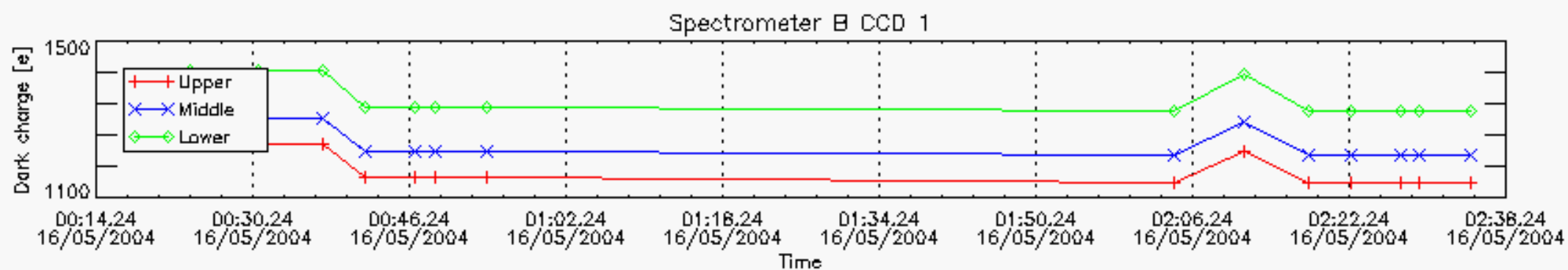
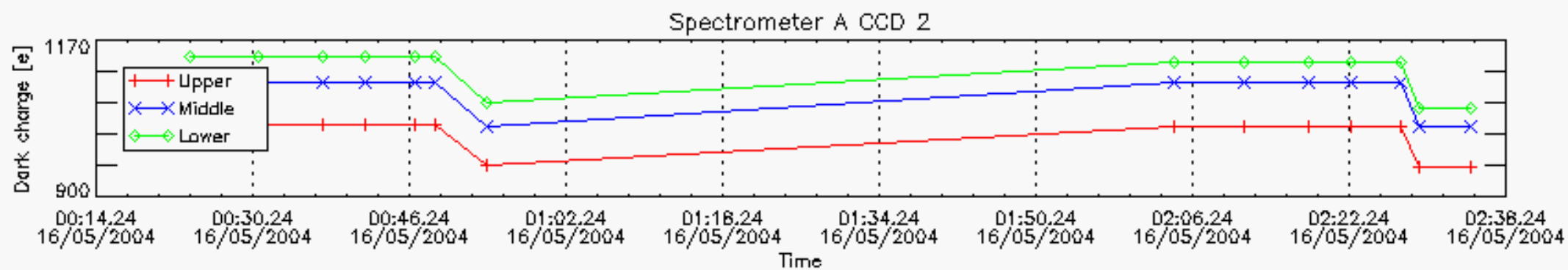
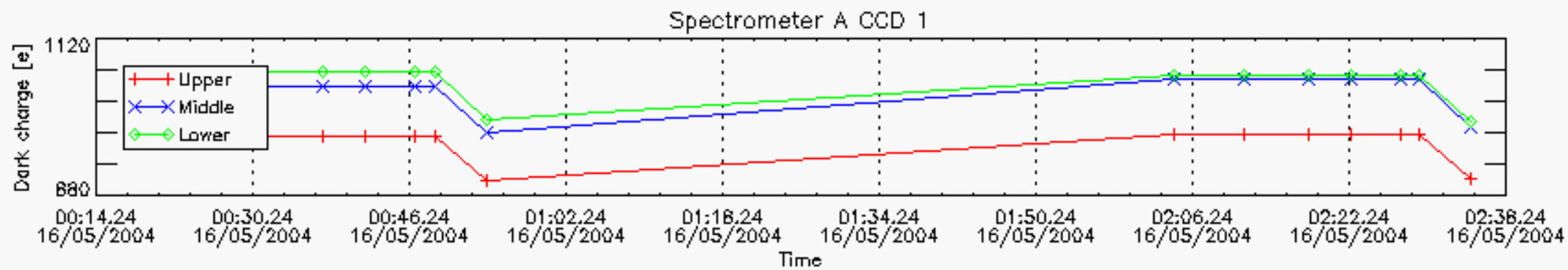


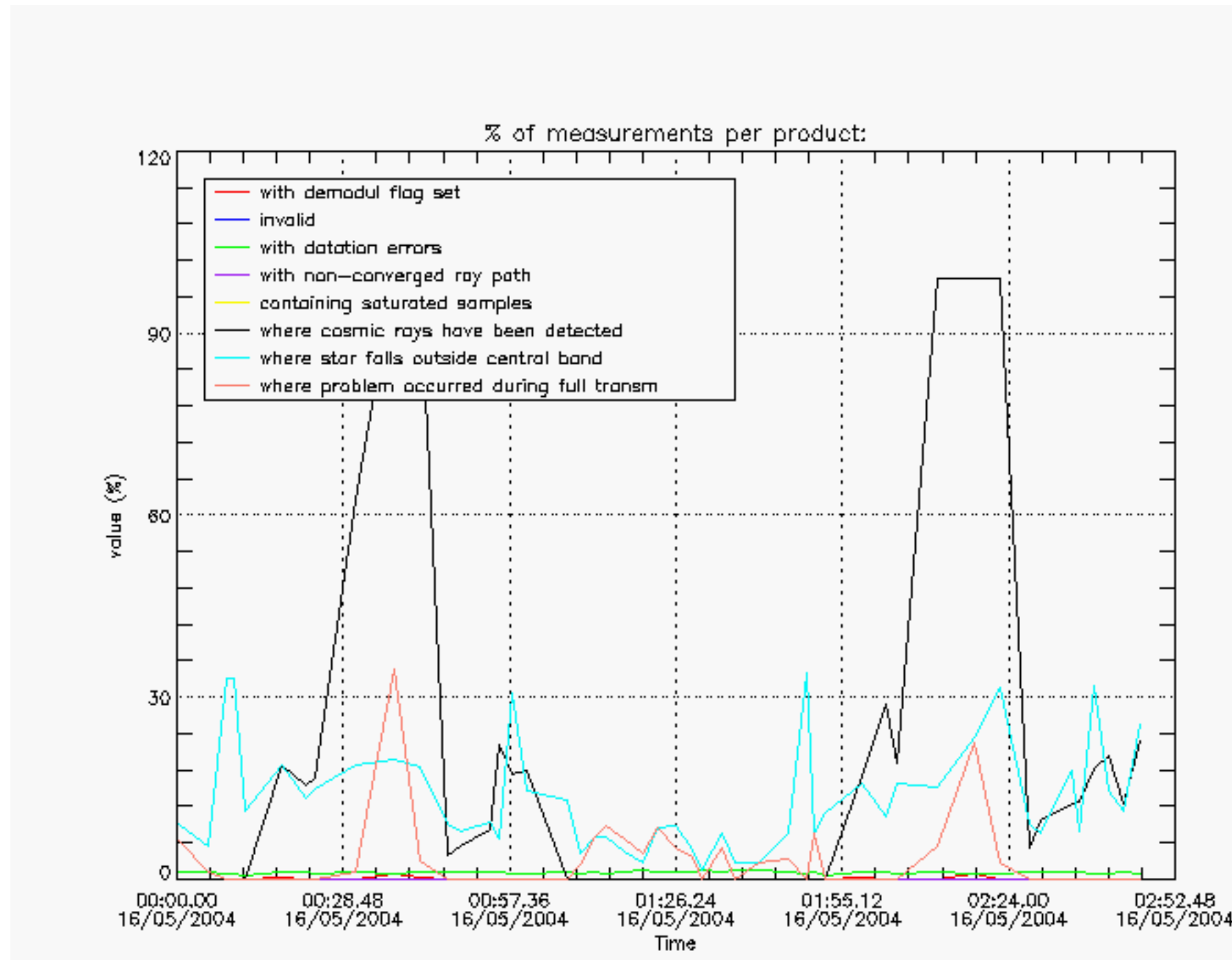
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

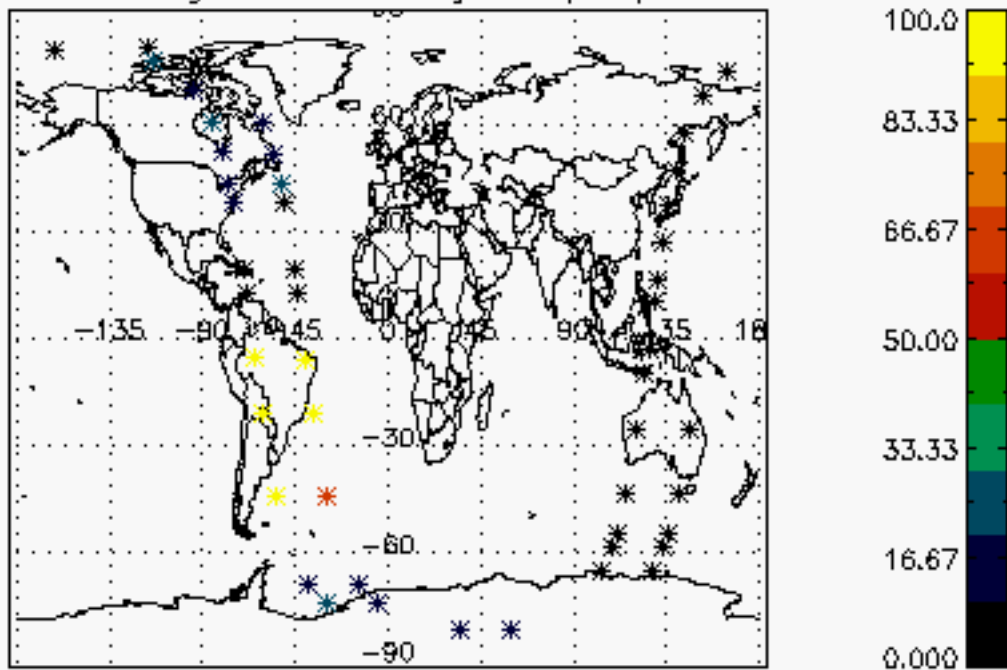
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.8	1446.7	1461.9	1447.8
St. deviation:	4.2403	5.7100	6.2833	7.3604
Maximum:	1487.0	1488.0	1506.0	1493.0
Minimum:	1454.0	1438.0	1448.0	1442.0
Number of data:	17600.	17600.	32100.	32100.



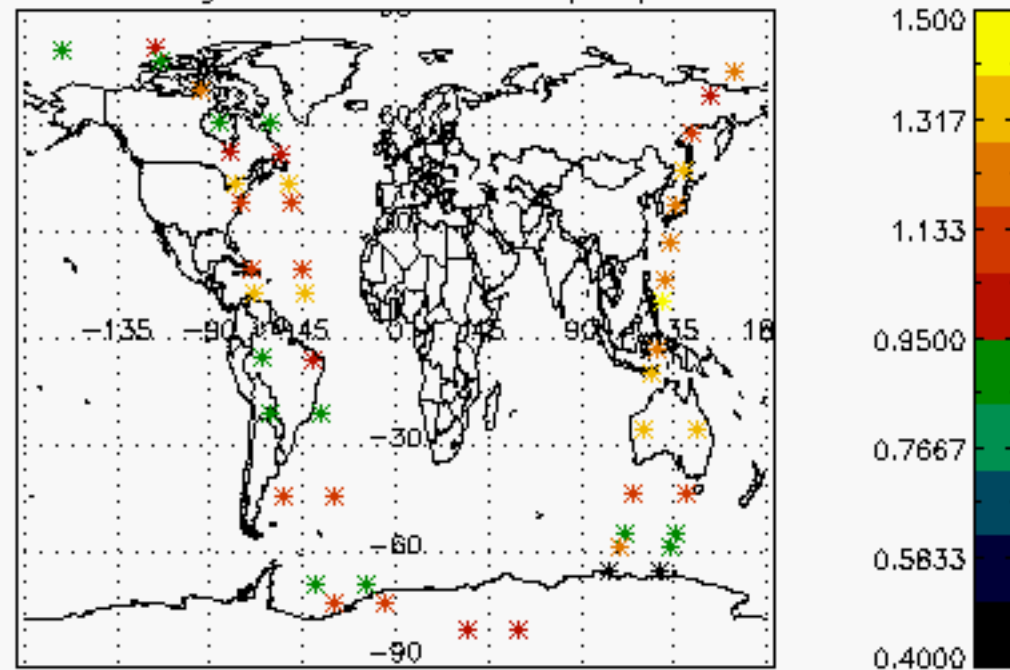




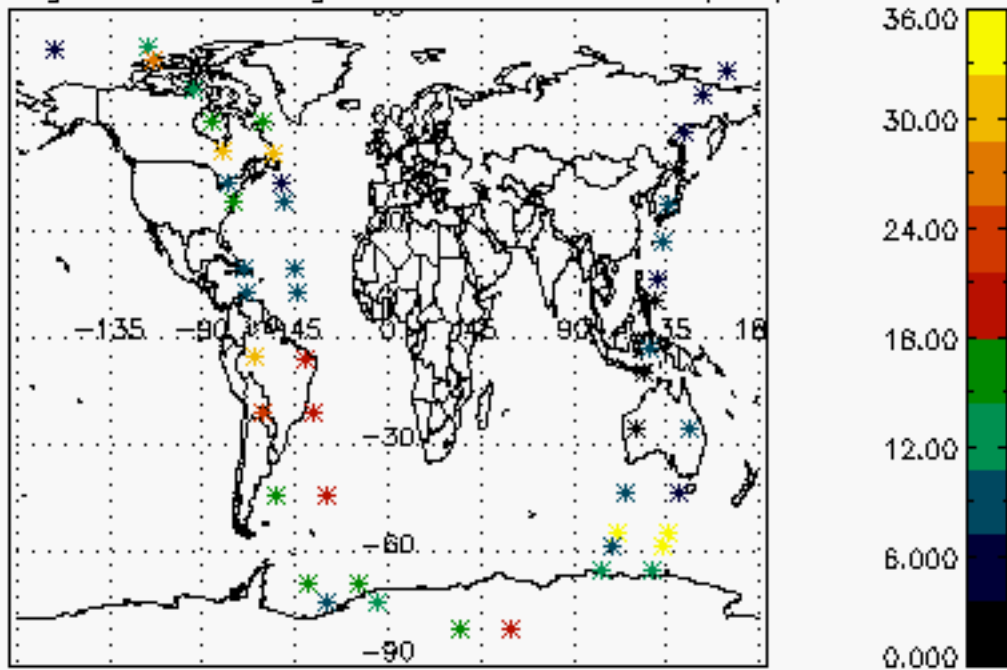
Percentage of cosmic ray hits per profile



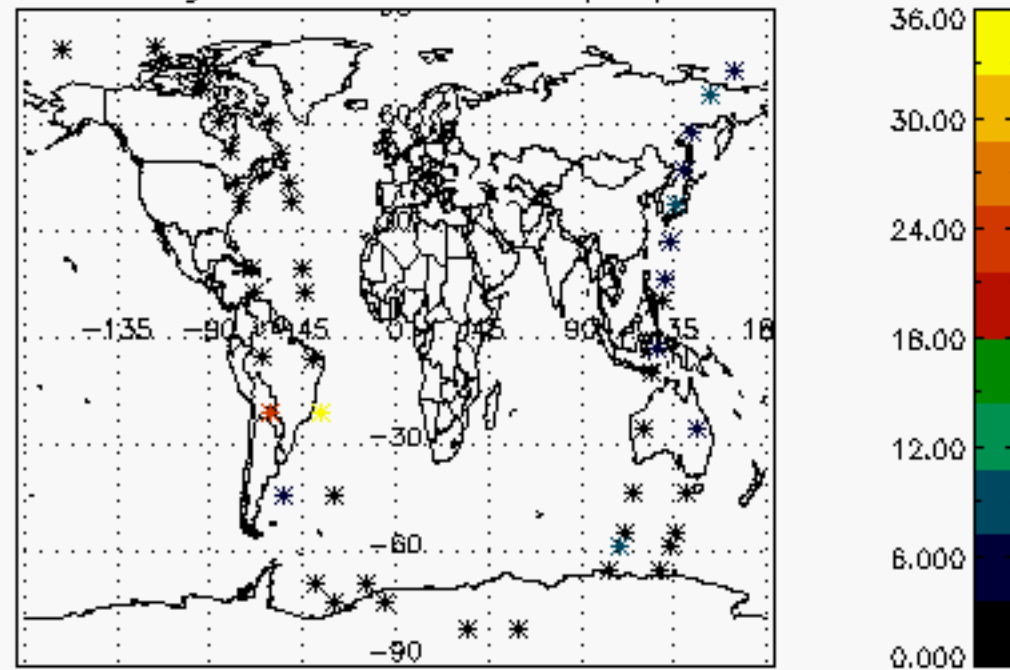
Percentage of datation errors per profile



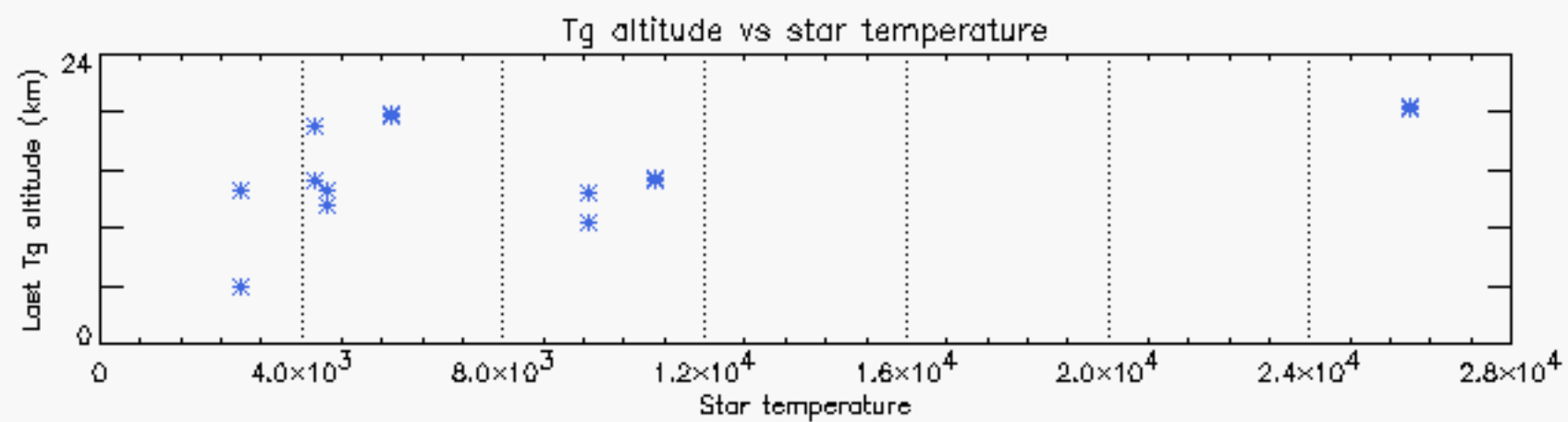
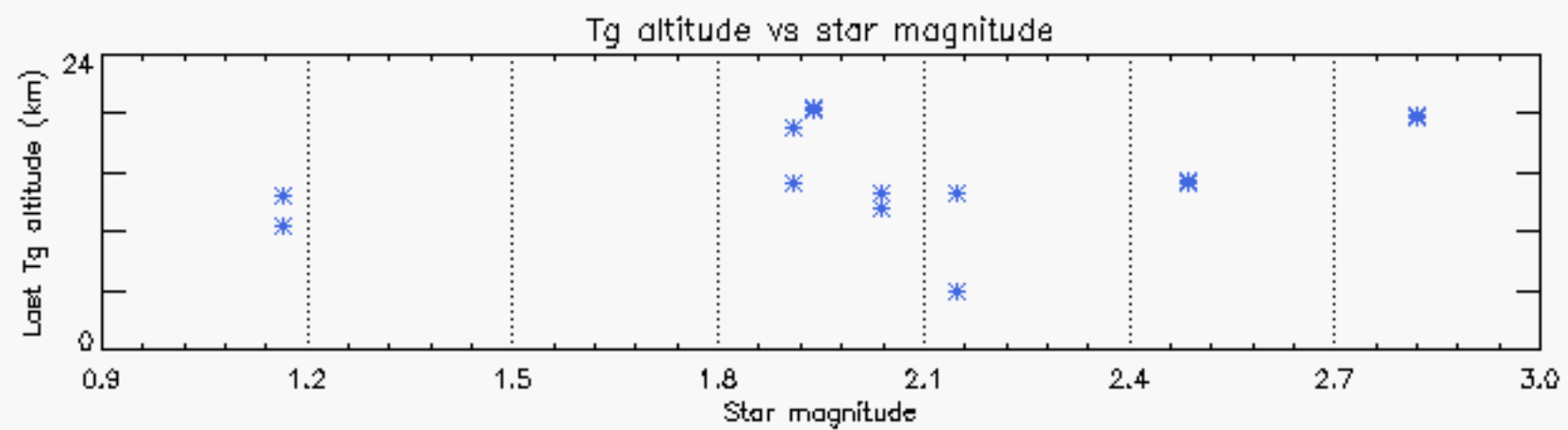
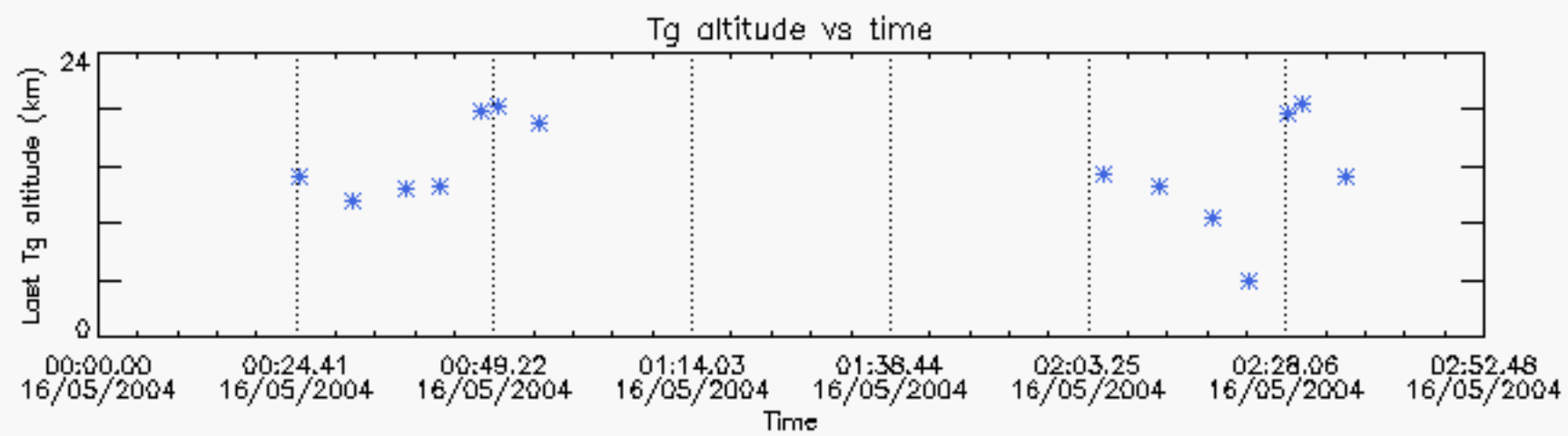
Percentage of star falling outside central band per profile



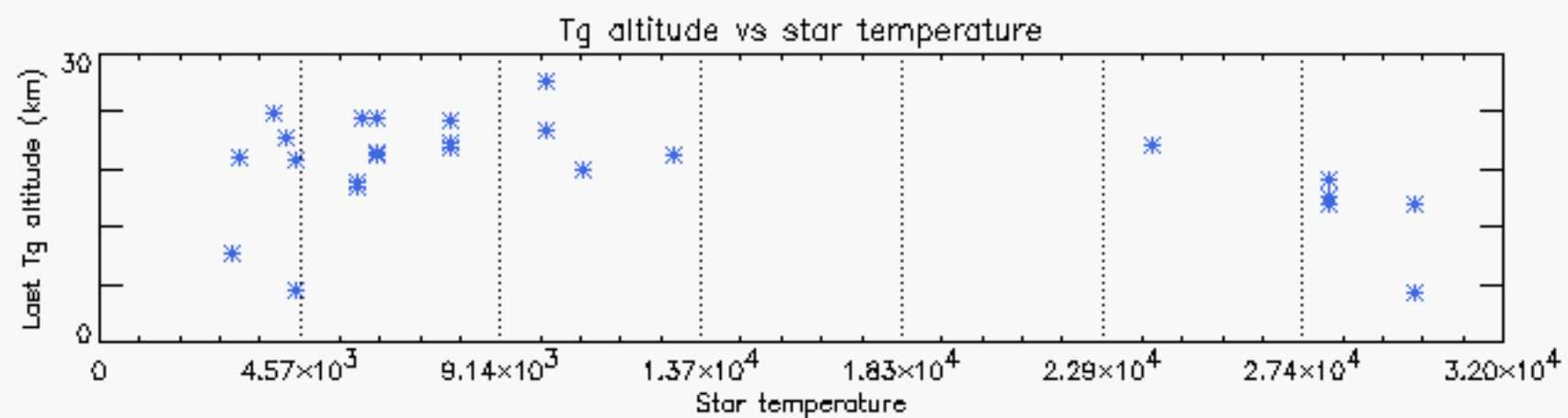
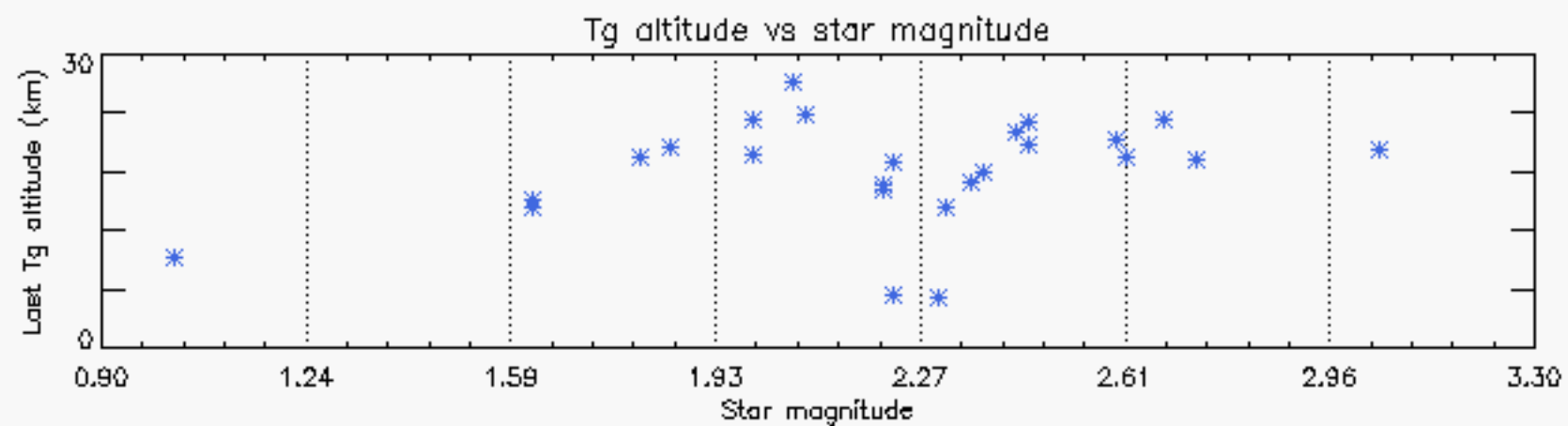
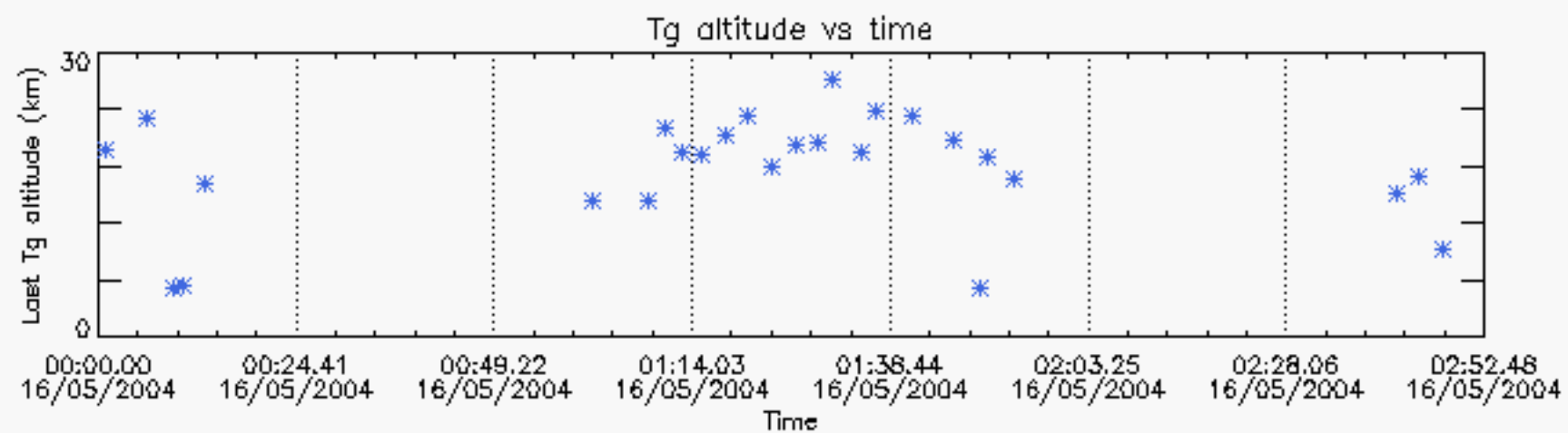
Percentage of saturation errors per profile



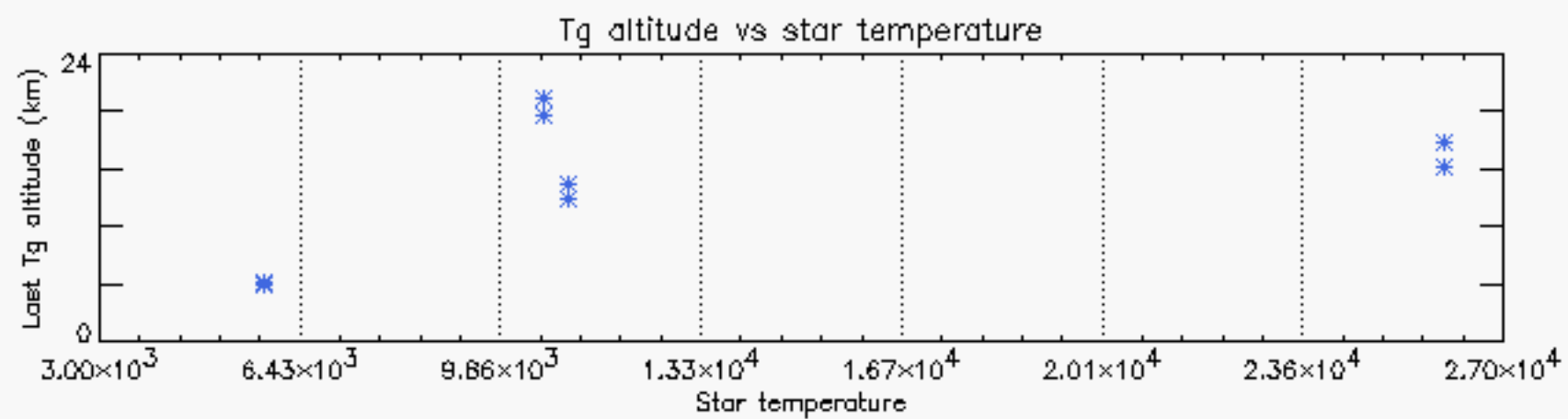
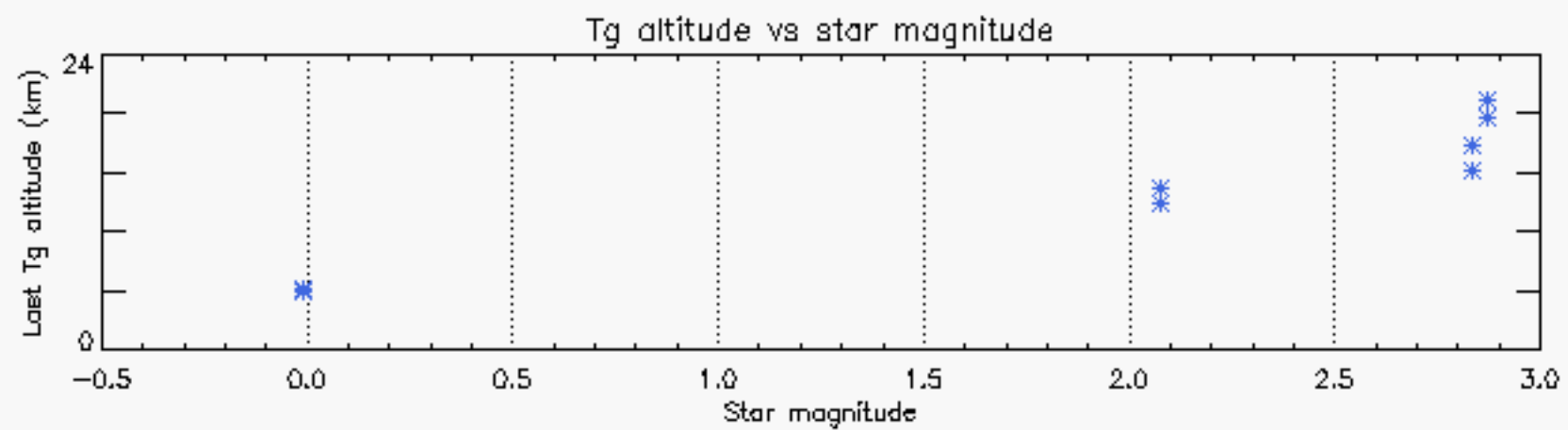
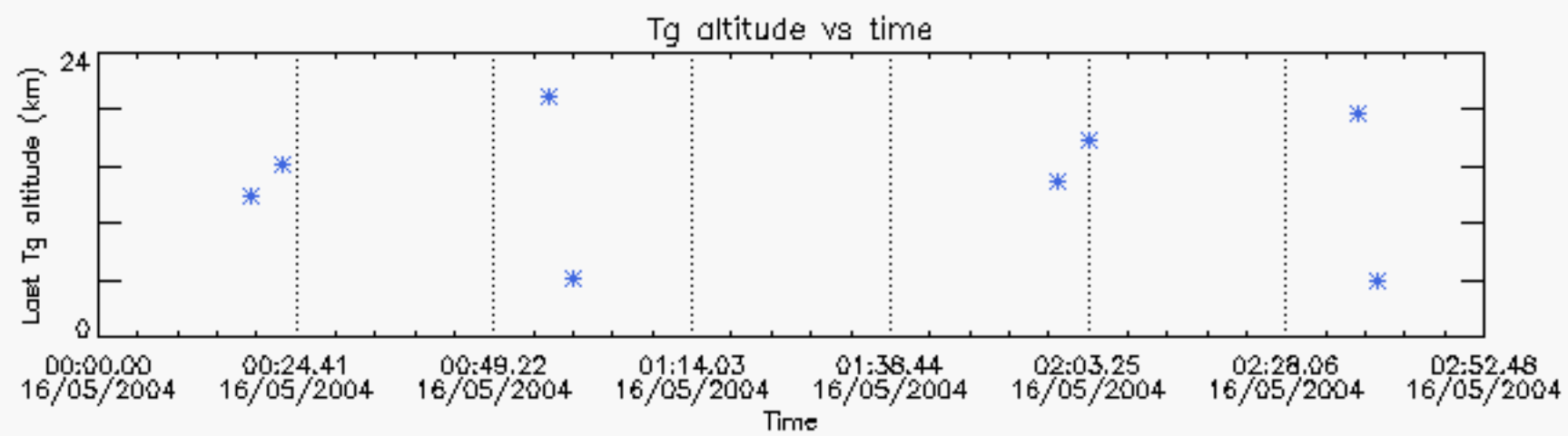
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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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
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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
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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
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15;	-2036.9;	01-MAY-2004	06:23:09;	Bright;	38.5;	68;	18Alp Cas	;	2.22;	4500;occ;	77;	0;	11339
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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
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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
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29;	579.0;	01-MAY-2004	07:06:45;	Dark	;	43;	Alp TrA	;	1.91;	4250;occ;	86;	0;	11340
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4;	-4137.9;	02-MAY-2004	00:14:43;	Bright;	37.5;	121;	29Gam Vir	;	2.74;	7200;occ;	75;	0;	11350	
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25; -790.1; 02-MAY-2004 19:37:06; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;11361
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27; -348.0; 02-MAY-2004 19:44:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11361
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29; -131.3; 02-MAY-2004 19:48:05; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;11361
30; 19.6; 02-MAY-2004 19:50:36; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;11362
31; 199.9; 02-MAY-2004 19:53:36; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;11362
32; 587.0; 02-MAY-2004 20:00:04; Dark ; 43.5; 43; Alp TrA ; 1.91; 4250;occ; 87; 0;11362
33; 719.2; 02-MAY-2004 20:02:16; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;11362
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8;-4311.0; 02-MAY-2004 20:19:01; Bright; 48.5; 104; 27Bet Lib ; 2.61; 13100;occ; 97; 0;11362

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12;-3596.6; 02-MAY-2004 20:30:56; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;11362
13;-3477.3; 02-MAY-2004 20:32:55; Bright; 35.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 71; 0;11362
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31; 720.9; 03-MAY-2004 06:05:53; Dark ; 41.0; 134; Bet TrA ; 2.81; 6600;occ; 82; 0;11368
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33; 1273.1; 06-MAY-2004 13:03:13; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;11415
34; 1421.2; 06-MAY-2004 13:05:41; Dark ; 54.0; 80; 7Del Sco ; 2.32; 30000;occ; 108; 0;11415
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26; 40.3; 06-MAY-2004 14:23:16; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;11416
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32; 1063.8; 07-MAY-2004 04:05:07; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;11424
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25; 609.0; 07-MAY-2004 08:59:20; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;11427
26; 692.7; 07-MAY-2004 09:00:44; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;11427
27; 855.1; 07-MAY-2004 09:03:26; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;11427
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31; 1425.7; 07-MAY-2004 09:12:57; Dark ; 54.5; 80; 7Del Sco ; 2.32; 30000;occ; 109; 0;11427
32; 1562.4; 07-MAY-2004 09:15:14; Bright; 80.5; 86; 35Eta Oph ; 2.43; 10200;occ; 161; 0;11427
33; 1724.0; 07-MAY-2004 09:17:55; Bright; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;11427
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 3;-4122.7; 07-MAY-2004 11:01:40; Bright; 38.0; 121; 29Gam Vir ; 2.74; 7200;occ; 76; 0;11428
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12;-2884.5; 07-MAY-2004 11:22:19; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;11428
13;-2591.9; 07-MAY-2004 11:27:11; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;11428
14;-2241.7; 07-MAY-2004 11:33:01; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;11428
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16;-2030.0; 07-MAY-2004 11:36:33; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;11428
17;-1821.2; 07-MAY-2004 11:40:02; Bright; 85.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 170; 0;11428
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19;-1229.5; 07-MAY-2004 11:49:54; Dark ; 49.0; 90; 54Alp Peg ; 2.49; 11000;occ; 98; 0;11428
20; -779.7; 07-MAY-2004 11:57:23; Dark ; 41.5; 52; 16Bet Cet ; 2.04; 4500;occ; 83; 0;11428
21; -440.9; 07-MAY-2004 12:03:02; Dark ; 51.0; 18; 24Alp PsA ; 1.17; 9700;occ; 102; 0;11428
22; -350.9; 07-MAY-2004 12:04:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11428
23; -164.9; 07-MAY-2004 12:07:38; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;11428
24; -90.2; 07-MAY-2004 12:08:53; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;11428

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25; 244.6; 07-MAY-2004 12:14:28; Dark ; 45.5; 45; Alp Pav ; 1.94; 26000;occ; 91; 0;11429
26; 609.0; 07-MAY-2004 12:20:32; Dark ; 44.0; 43; Alp TrA ; 1.91; 4250;occ; 88; 0;11429
27; 694.0; 07-MAY-2004 12:21:57; Dark ; 49.5; 141; Bet Ara ; 2.84; 4600;occ; 99; 0;11429
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16;-2105.6; 07-MAY-2004 13:15:53; Bright; 52.0; 76; 27Gam Cas ; 2.30; 30000;occ; 104; 0;11429
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18;-1822.0; 07-MAY-2004 13:20:37; Bright; 84.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 168; 0;11429
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31; 1156.2; 07-MAY-2004 14:10:15; Dark ; 43.5; 81; Eta Cen ; 2.36; 28000;occ; 87; 0;11430
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12;-3015.6; 07-MAY-2004 14:41:19; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;11430
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15;-2591.9; 07-MAY-2004 14:48:23; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;11430
16;-2241.9; 07-MAY-2004 14:54:13; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;11430
17;-2104.3; 07-MAY-2004 14:56:31; Bright; 52.0; 76; 27Gam Cas ; 2.30; 30000;occ; 104; 0;11430
18;-2029.5; 07-MAY-2004 14:57:46; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;11430
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21;-1227.9; 07-MAY-2004 15:11:07; Dark ; 52.5; 90; 54Alp Peg ; 2.49; 11000;occ; 105; 0;11430
22; -778.6; 07-MAY-2004 15:18:36; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;11430
23; -439.5; 07-MAY-2004 15:24:16; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;11430
24; -348.0; 07-MAY-2004 15:25:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11430

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25; -163.6; 07-MAY-2004 15:28:51; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;11430
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27; 46.8; 07-MAY-2004 15:32:22; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;11431
28; 245.3; 07-MAY-2004 15:35:40; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;11431
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30; 706.1; 07-MAY-2004 15:43:21; Dark ; 38.0; 145; Gam TrA ; 2.87; 10600;occ; 76; 0;11431
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33; 1156.9; 07-MAY-2004 15:50:52; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;11431
34; 1308.2; 07-MAY-2004 15:53:23; Dark ; 42.5; 16; 21Alp Sco ; 1.02; 3000;occ; 85; 0;11431
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3; -4473.4; 07-MAY-2004 15:57:38; Bright; 79.0; 86; 35Eta Oph ; 2.43; 10200;occ; 158; 0;11431
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17; -2766.3; 07-MAY-2004 18:06:41; Bright; 55.5; 130; 23Bet Dra ; 2.80; 5800;occ; 111; 0;11432
18; -2591.6; 07-MAY-2004 18:09:36; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;11432
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22; -1824.1; 07-MAY-2004 18:22:23; Bright; 88.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 176; 0;11432
23; -1557.9; 07-MAY-2004 18:26:49; Dark ; 109.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 218; 0;11432

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24;-1227.5; 07-MAY-2004 18:32:20; Dark ; 49.5; 90; 54Alp Peg ; 2.49; 11000;occ; 99; 0;11432
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26; -437.9; 07-MAY-2004 18:45:29; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;11432
27; -345.1; 07-MAY-2004 18:47:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11432
28; -162.6; 07-MAY-2004 18:50:04; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;11432
29; -87.2; 07-MAY-2004 18:51:20; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;11432
30; 47.9; 07-MAY-2004 18:53:35; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;11433
31; 247.5; 07-MAY-2004 18:56:55; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;11433
32; 610.7; 07-MAY-2004 19:02:58; Dark ; 43.5; 43; Alp TrA ; 1.91; 4250;occ; 87; 0;11433
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5;-4609.2; 07-MAY-2004 19:16:34; Dark ; 68.0; 80; 7Del Sco ; 2.32; 30000;occ; 136; 0;11433
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7;-4312.4; 07-MAY-2004 19:21:31; Bright; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;11433
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12;-3473.5; 07-MAY-2004 19:35:30; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;11433
13;-3284.3; 07-MAY-2004 19:38:39; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;11433
14;-3195.9; 07-MAY-2004 19:40:07; Bright; 36.5; 55; 79Zet UMa ; 2.06; 10200;occ; 73; 0;11433
15;-3087.4; 07-MAY-2004 19:41:56; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;11433
16;-3014.1; 07-MAY-2004 19:43:09; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;11433
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22;-2029.0; 07-MAY-2004 19:59:34; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;11433
23;-1824.6; 07-MAY-2004 20:02:58; Bright; 92.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 185; 0;11433
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31; 48.2; 07-MAY-2004 20:34:11; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;11434
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22;-2029.3; 07-MAY-2004 21:40:10; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;11434
23;-1824.9; 07-MAY-2004 21:43:34; Bright; 88.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 177; 0;11434
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32; 248.8; 07-MAY-2004 22:18:08; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;11435
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16;-2104.4; 08-MAY-2004 06:01:54; Bright; 46.5; 76; 27Gam Cas ; 2.30; 30000;occ; 93; 0;11439
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6;-3931.4; 08-MAY-2004 00:29:39; Bright; 37.5; 138; 47Eps Vir ; 2.83; 4700;occ; 75; 0;11436
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32; 1000.1; 13-MAY-2004 07:36:47; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;11512
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37; 1568.8; 14-MAY-2004 07:14:39; Bright; 66.0; 86; 35Eta Oph ; 2.43; 10200;occ; 132; 0;11526
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14;-2100.4; 14-MAY-2004 07:54:06; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;11526
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31; 1010.3; 14-MAY-2004 08:45:57; Dark ; 58.0; 25; 35Lam Sco ; 1.62; 28000;occ; 116; 0;11527
32; 1154.5; 14-MAY-2004 08:48:21; Dark ; 58.0; 75; 26Eps Sco ; 2.29; 4250;occ; 116; 0;11527
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33; 1154.8; 14-MAY-2004 10:28:57; Dark ; 55.5; 75; 26Eps Sco ; 2.29; 4250;occ; 111; 0;11528
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23;-462.9; 14-MAY-2004 11:42:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11528
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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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23; -472.3; 31-MAY-2004 17:50:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11775
24; -243.4; 31-MAY-2004 17:54:13; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;11775
25; -113.9; 31-MAY-2004 17:56:22; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;11775
26; 76.5; 31-MAY-2004 17:59:33; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;11776
27; 188.9; 31-MAY-2004 18:01:25; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;11776
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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