

GOMOS Daily Report 17-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	20MAY2004 07:20:55
Data source version	GOMOS/4.02
Start time of products	17-MAY-2004 (17MAY2004 00:00:00)
Stop time of products	18-MAY-2004 (18MAY2004 00:00:00)

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

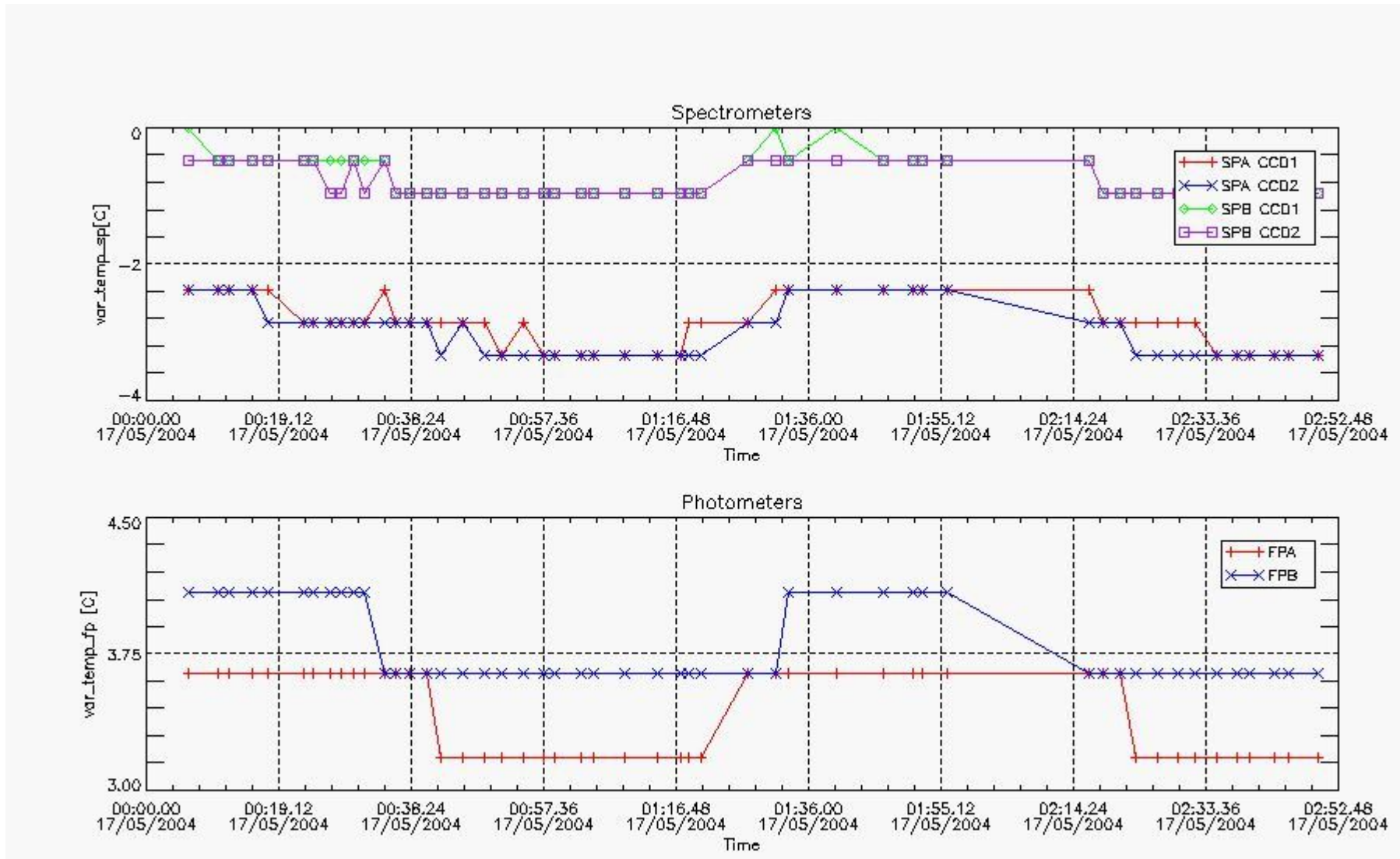
2. Summary of products arrived in PCF

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_1PNPDE20040517_000610_000000512026_00488_11564_0023.N1	17-MAY-2004 00:06:10	Dark	50.500	18	24Alp PsA	1.1660	9700.0	101	11564	No
GOM_TRA_1PNPDE20040517_001028_000000572026_00488_11564_0024.N1	17-MAY-2004 00:10:28	Dark	57.000	63	Bet Gru	2.1500	2800.0	114	11564	No
GOM_TRA_1PNPDE20040517_001159_000000462026_00489_11565_0025.N1	17-MAY-2004 00:11:59	Dark	46.000	31	Alp Gru	1.7340	15200.	92	11565	No
GOM_TRA_1PNPDE20040517_001523_000000392026_00489_11565_0026.N1	17-MAY-2004 00:15:23	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	11565	No
GOM_TRA_1PNPDE20040517_001731_000000452026_00489_11565_0027.N1	17-MAY-2004 00:17:31	Dark	44.500	45	Alp Pav	1.9400	26000.	89	11565	No
GOM_TRA_1PNPDE20040517_002243_000000442026_00489_11565_0028.N1	17-MAY-2004 00:22:43	Dark	43.500	43	Alp TrA	1.9100	4250.0	87	11565	No
GOM_TRA_1PNPDE20040517_002405_000000402026_00489_11565_0029.N1	17-MAY-2004 00:24:05	Twilight	40.000	145	Gam TrA	2.8720	10600.	80	11565	No
GOM_TRA_1PNPDE20040517_002635_000000462026_00489_11565_0030.N1	17-MAY-2004 00:26:35	Twilight	45.500	4	Alp1Cen	-0.010000	5800.0	91	11565	No
GOM_TRA_1PNPDE20040517_002811_000000522026_00489_11565_0031.N1	17-MAY-2004 00:28:11	Bright	51.500	85	Kap Sco	2.4070	28000.	103	11565	No
GOM_TRA_1PNPDE20040517_003007_000000442026_00489_11565_0032.N1	17-MAY-2004 00:30:07	Bright	43.500	78	Alp Lup	2.3040	28000.	87	11565	No
GOM_TRA_1PNPDE20040517_003137_000000452026_00489_11565_0033.N1	17-MAY-2004 00:31:37	Bright	44.500	81	Eta Cen	2.3560	28000.	89	11565	No
GOM_TRA_1PNPDE20040517_003427_000000632026_00489_11565_0000.N1	17-MAY-2004 00:34:27	Bright	63.000	16	21Alp Sco	1.0200	3000.0	126	11565	Yes
GOM_TRA_1PNPDE20040517_003609_000000482026_00489_11565_0001.N1	17-MAY-2004 00:36:09	Bright	47.500	80	7Del Sco	2.3160	30000.	95	11565	No
GOM_TRA_1PNPDE20040517_003804_000000612026_00489_11565_0002.N1	17-MAY-2004 00:38:04	Bright	61.000	86	35Eta Oph	2.4300	10200.	122	11565	No
GOM_TRA_1PNPDE20040517_004039_000000412026_00489_11565_0003.N1	17-MAY-2004 00:40:39	Bright	40.500	104	27Bet Lib	2.6140	13100.	81	11565	No
GOM_TRA_1PNPDE20040517_004243_000000512026_00489_11565_0004.N1	17-MAY-2004 00:42:43	Bright	51.000	120	1Del Oph	2.7340	3200.0	102	11565	No
GOM_TRA_1PNPDE20040517_004553_000000452026_00489_11565_0005.N1	17-MAY-2004 00:45:53	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	11565	No
GOM_TRA_1PNPDE20040517_004855_000000362026_00489_11565_0006.N1	17-MAY-2004 00:48:55	Bright	36.000	111	8Eta Boo	2.6800	6000.0	72	11565	No
GOM_TRA_1PNPDE20040517_005130_000000412026_00489_11565_0007.N1	17-MAY-2004 00:51:30	Bright	40.500	83		2.3780	11000.	81	11565	No
GOM_TRA_1PNPDE20040517_005439_000000382026_00489_11565_0008.N1	17-MAY-2004 00:54:39	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	11565	No
GOM_TRA_1PNPDE20040517_005736_000000342026_00489_11565_0009.N1	17-MAY-2004 00:57:36	Bright	34.000	39	85Eta UMa	1.8540	24000.	68	11565	No
GOM_TRA_1PNPDE20040517_005913_000000512026_00489_11565_0010.N1	17-MAY-2004 00:59:13	Bright	50.500	55	79Zet UMa	2.0600	10200.	101	11565	No
GOM_TRA_1PNPDE20040517_010258_000000392026_00489_11565_0011.N1	17-MAY-2004 01:02:58	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	11565	No
GOM_TRA_1PNPDE20040517_010452_000000362026_00489_11565_0012.N1	17-MAY-2004 01:04:52	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	11565	No
GOM_TRA_1PNPDE20040517_010917_000000382026_00489_11565_0013.N1	17-MAY-2004 01:09:17	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	11565	No
GOM_TRA_1PNPDE20040517_011410_000000482026_00489_11565_0014.N1	17-MAY-2004 01:14:10	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	11565	No
GOM_TRA_1PNPDE20040517_011729_000000382026_00489_11565_0015.N1	17-MAY-2004 01:17:29	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	11565	No
GOM_TRA_1PNPDE20040517_011842_000000522026_00489_11565_0016.N1	17-MAY-2004 01:18:42	Bright	51.500	68	18Alp Cas	2.2250	4500.0	103	11565	No
GOM_TRA_1PNPDE20040517_012024_000001162026_00489_11565_0017.N1	17-MAY-2004 01:20:24	Bright	116.00	66	37Gam Cyg	2.2080	5900.0	232	11565	No
GOM_TRA_1PNPDE20040517_012709_000000492026_00489_11565_0018.N1	17-MAY-2004 01:27:09	Twilight	48.500	58	21Alp And	2.0730	11000.	97	11565	No
GOM_TRA_1PNPDE20040517_013121_000000452026_00489_11565_0019.N1	17-MAY-2004 01:31:21	Twilight	45.000	140	88Gam Peg	2.8340	26000.	90	11565	No
GOM_TRA_1PNPDE20040517_013304_000000612026_00489_11565_0020.N1	17-MAY-2004 01:33:04	Dark	61.000	90	54Alp Peg	2.4870	11000.	122	11565	No
GOM_TRA_1PNPDE20040517_014005_000000452026_00489_11565_0021.N1	17-MAY-2004 01:40:05	Dark	45.000	52	16Bet Cet	2.0370	4500.0	90	11565	No
GOM_TRA_1PNPDE20040517_014647_000000542026_00489_11565_0022.N1	17-MAY-2004 01:46:47	Dark	53.500	18	24Alp PsA	1.1660	9700.0	107	11565	No
GOM_TRA_1PNPDE20040517_015105_000000582026_00489_11565_0023.N1	17-MAY-2004 01:51:05	Dark	58.000	63	Bet Gru	2.1500	2800.0	116	11565	No
GOM_TRA_1PNPDE20040517_015235_000000462026_00490_11566_0024.N1	17-MAY-2004 01:52:35	Dark	46.000	31	Alp Gru	1.7340	15200.	92	11566	No
GOM_TRA_1PNPDE20040517_015559_000000372026_00490_11566_0025.N1	17-MAY-2004 01:55:59	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	11566	No
GOM_TRA_1PNPDE20040517_021645_000000492026_00490_11566_0000.N1	17-MAY-2004 02:16:45	Bright	48.500	80	7Del Sco	2.3160	30000.	97	11566	Yes
GOM_TRA_1PNPDE20040517_021840_000000602026_00490_11566_0001.N1	17-MAY-2004 02:18:40	Bright	60.000	86	35Eta Oph	2.4300	10200.	120	11566	No
GOM_TRA_1PNPDE20040517_022115_000000422026_00490_11566_0002.N1	17-MAY-2004 02:21:15	Bright	41.500	104	27Bet Lib	2.6140	13100.	83	11566	No
GOM_TRA_1PNPDE20040517_022319_000000512026_00490_11566_0003.N1	17-MAY-2004 02:23:19	Bright	50.500	120	1Del Oph	2.7340	3200.0	101	11566	No
GOM_TRA_1PNPDE20040517_022629_000000452026_00490_11566_0004.N1	17-MAY-2004 02:26:29	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	11566	No
GOM_TRA_1PNPDE20040517_022930_000000382026_00490_11566_0005.N1	17-MAY-2004 02:29:30	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	11566	No
GOM_TRA_1PNPDE20040517_023206_000000392026_00490_11566_0006.N1	17-MAY-2004 02:32:06	Bright	39.000	83		2.3780	11000.	78	11566	No
GOM_TRA_1PNPDE20040517_023514_000000372026_00490_11566_0007.N1	17-MAY-2004 02:35:14	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11566	No
GOM_TRA_1PNPDE20040517_023812_000000372026_00490_11566_0008.N1	17-MAY-2004 02:38:12	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	11566	No
GOM_TRA_1PNPDE20040517_023949_000000392026_00490_11566_0009.N1	17-MAY-2004 02:39:49	Bright	38.500	55	79Zet UMa	2.0600	10200.	77	11566	No
GOM_TRA_1PNPDE20040517_024335_000000392026_00490_11566_0010.N1	17-MAY-2004 02:43:35	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	11566	No
GOM_TRA_1PNPDE20040517_024527_000000362026_00490_11566_0011.N1	17-MAY-2004 02:45:27	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	11566	No

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



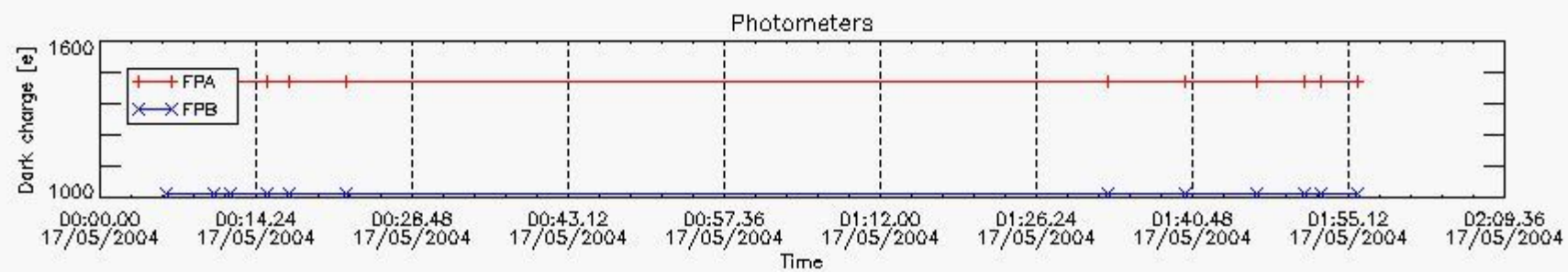
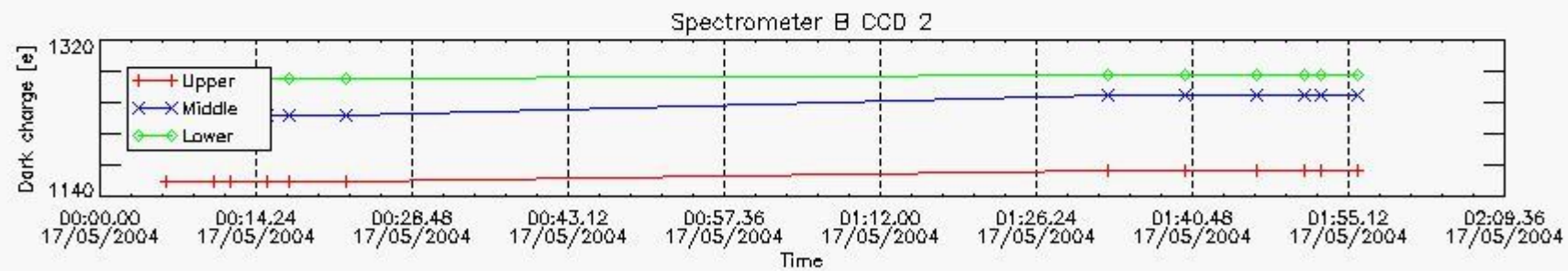
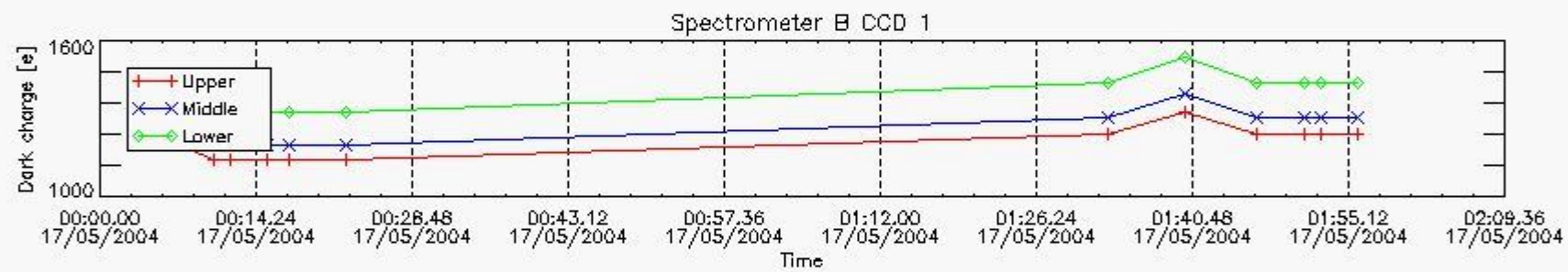
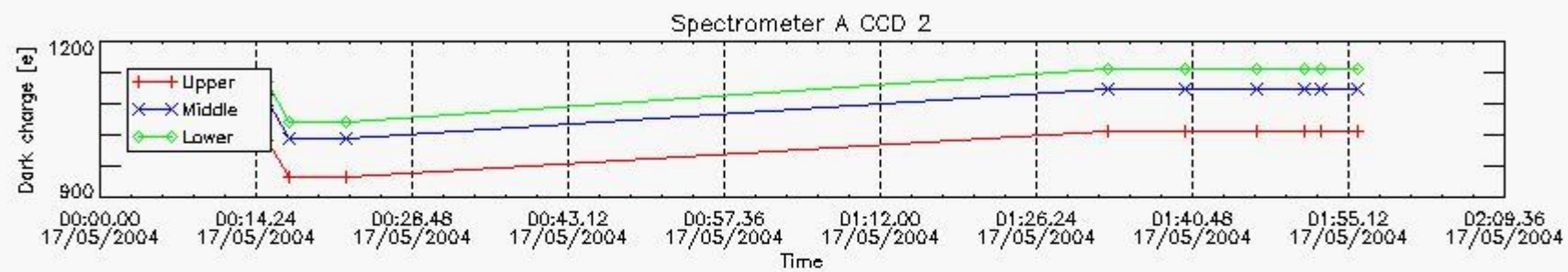
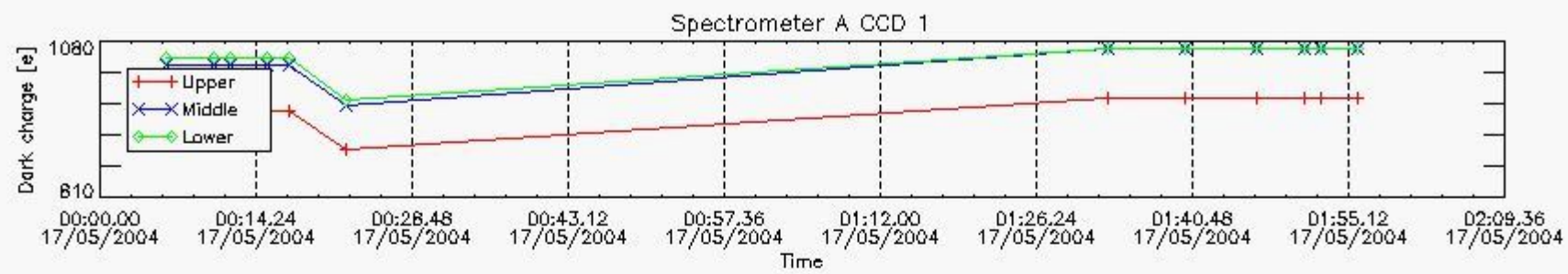
4. Overview of dark signal processing per product

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



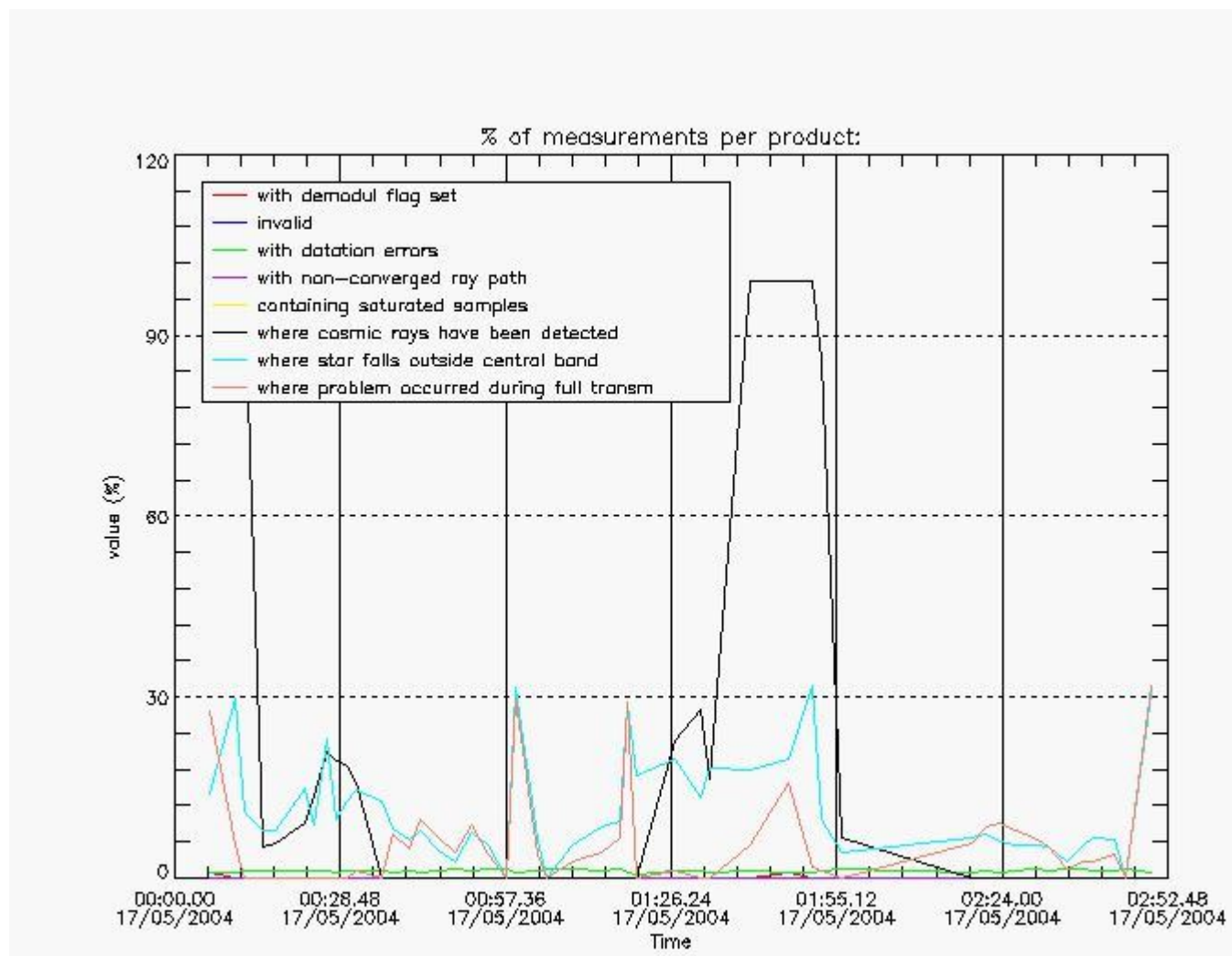
5. Demodulation flag and quality information monitoring

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.

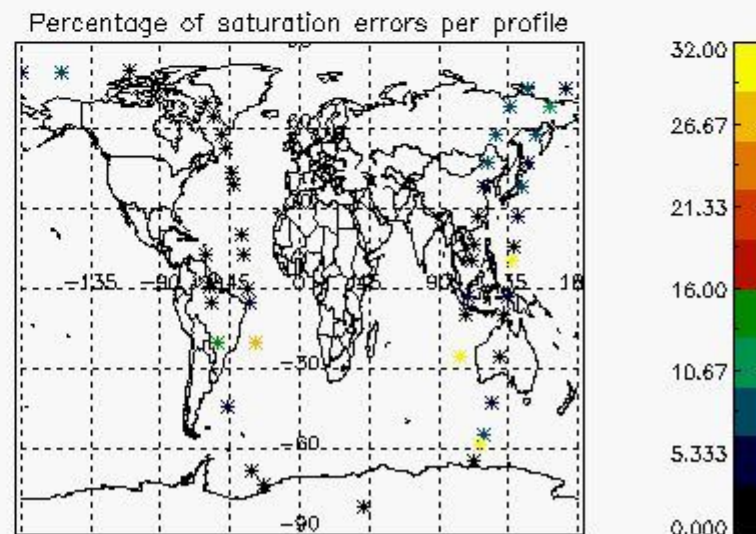
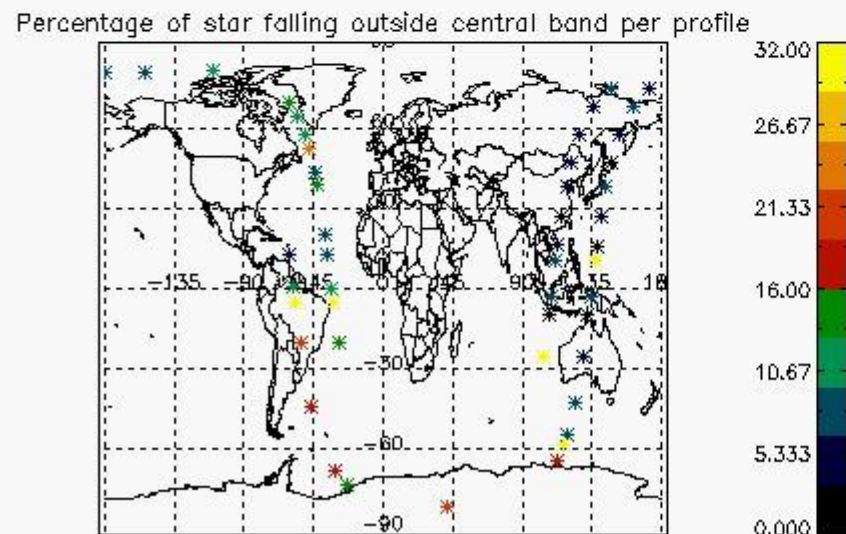
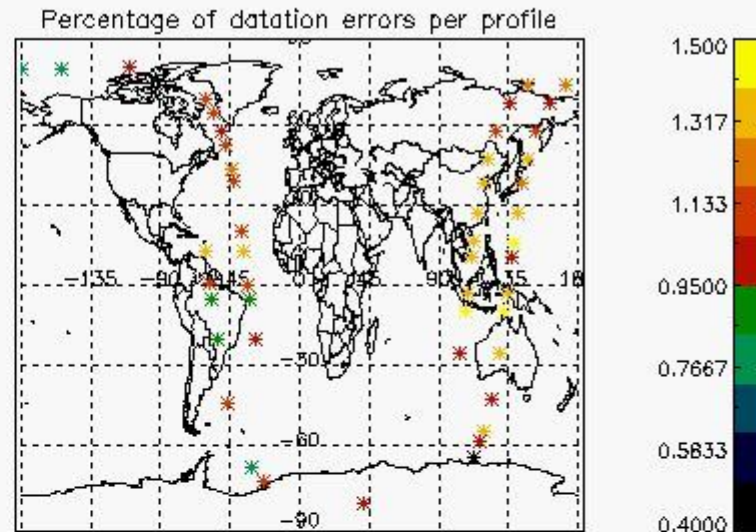
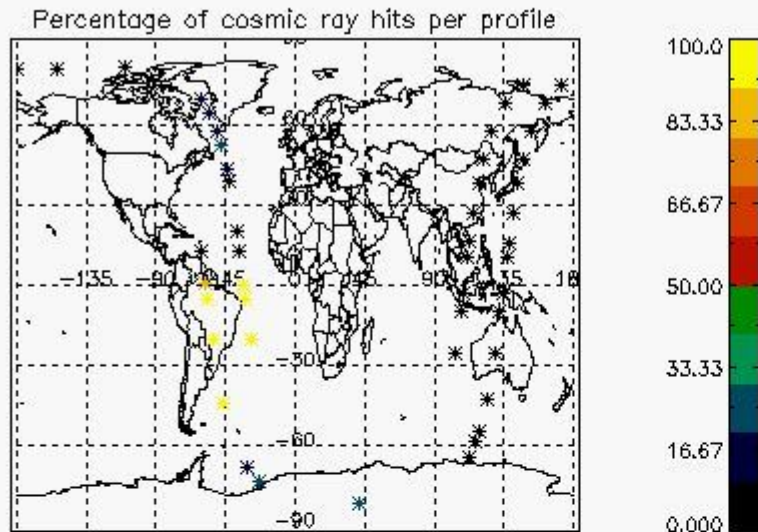
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.6667 %
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)



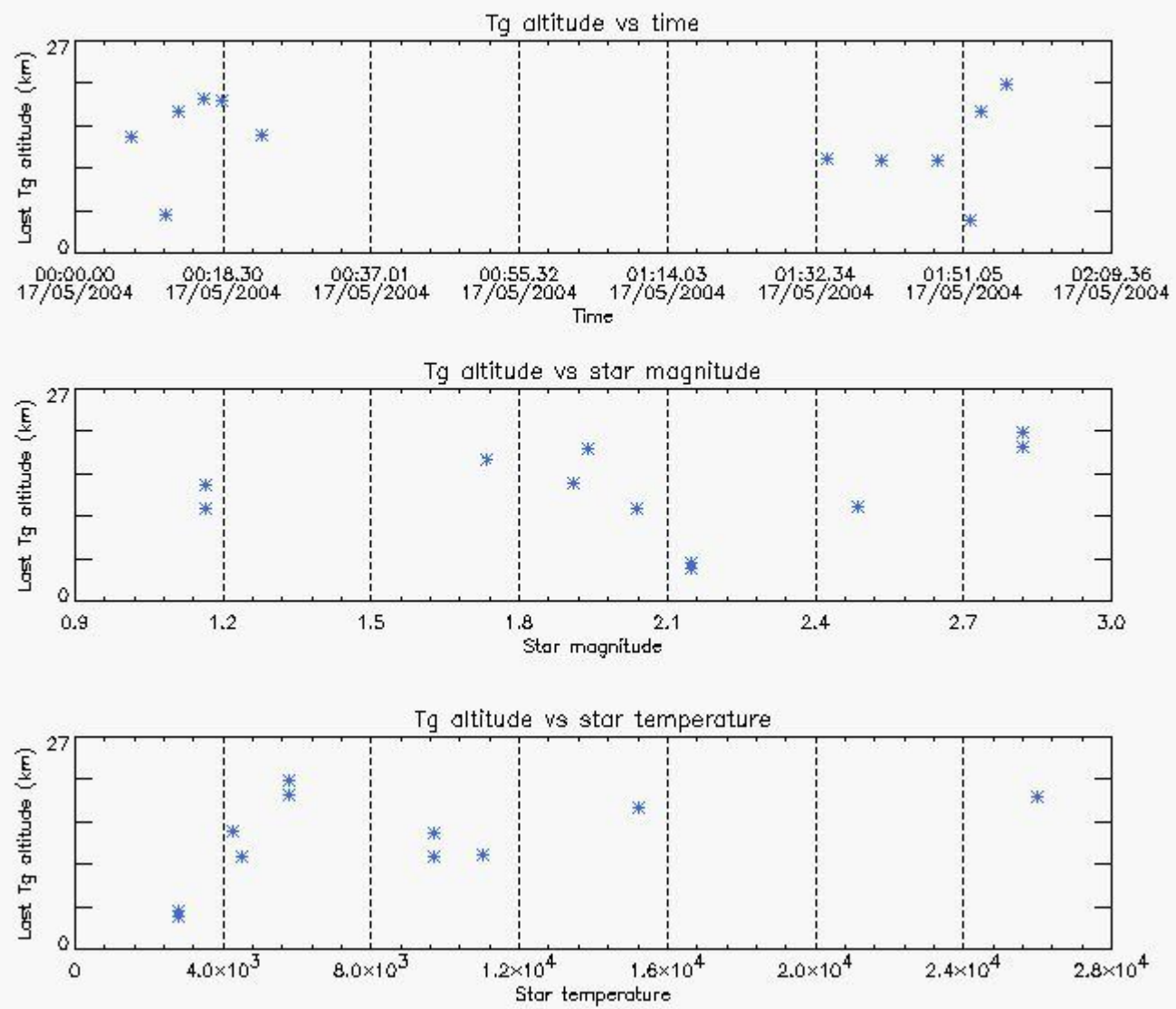
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.224	19.200	13.956
St. deviation:	5.5816	5.5085	3.7554
Maximum:	21.383	28.282	18.786
Minimum:	4.1810	5.0259	10.560
Number of data:	12.000	32.000	4.0000

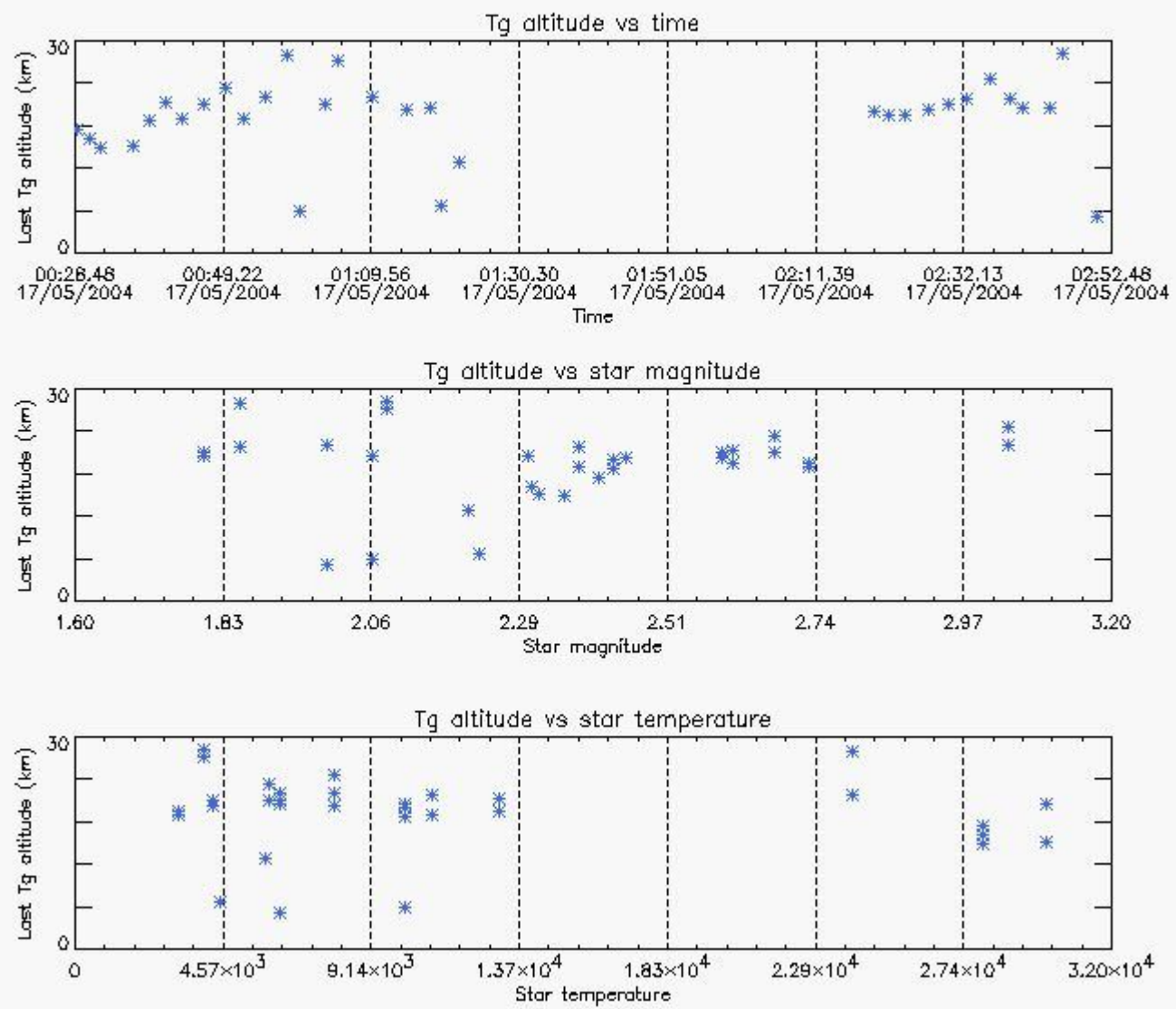
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



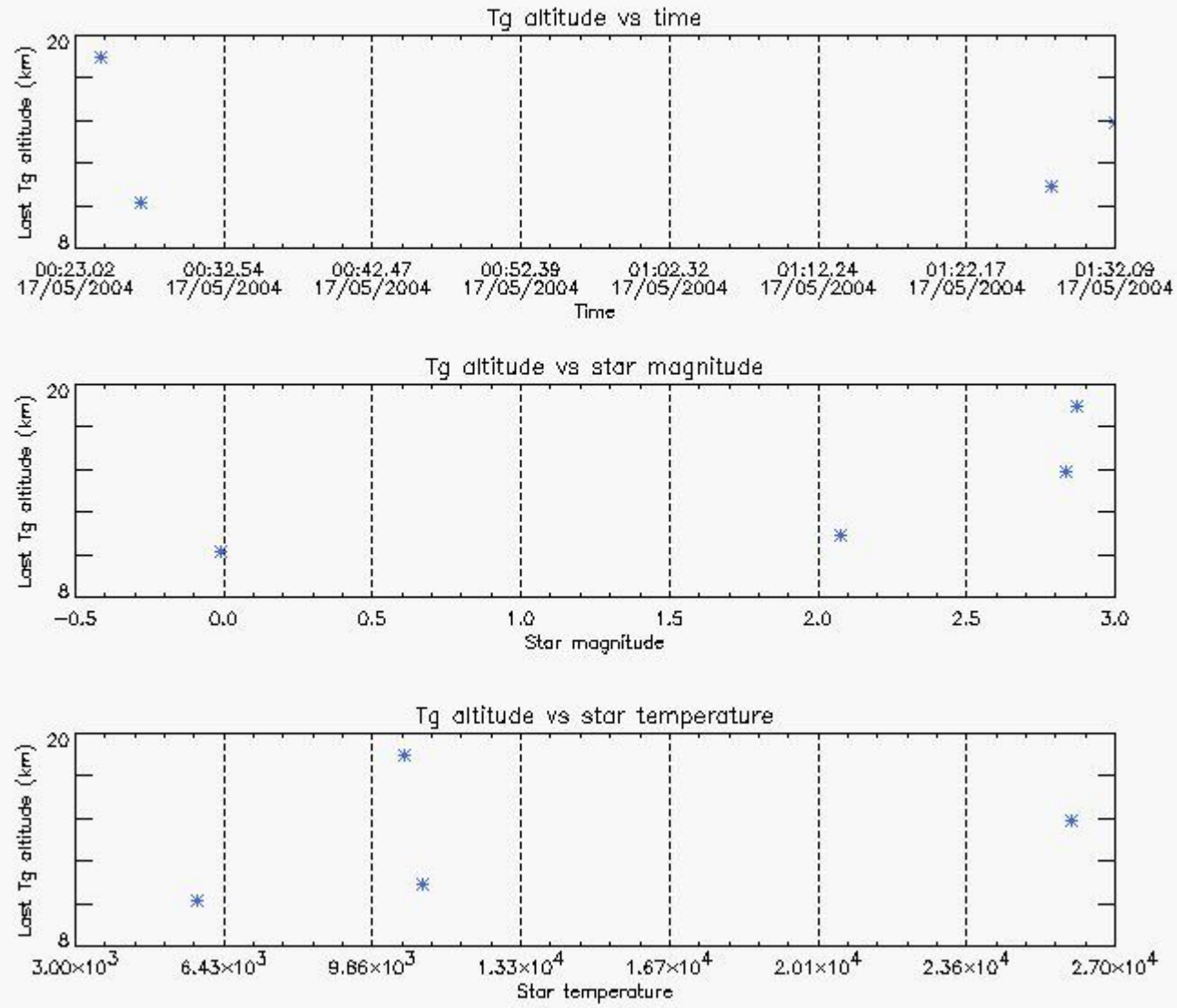
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

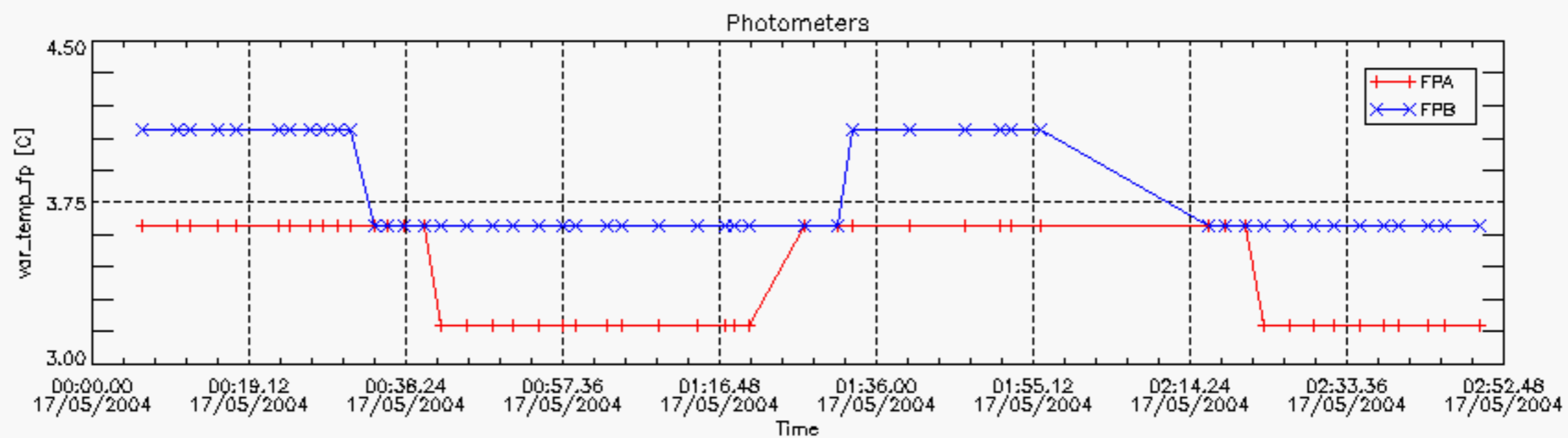
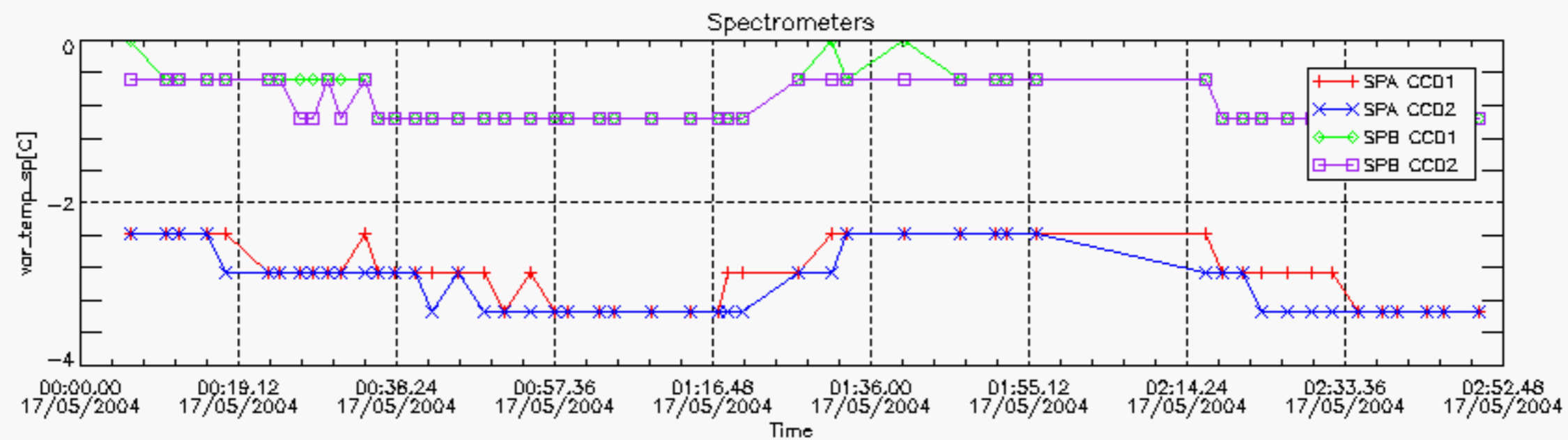
Tangent altitude at which the star is lost

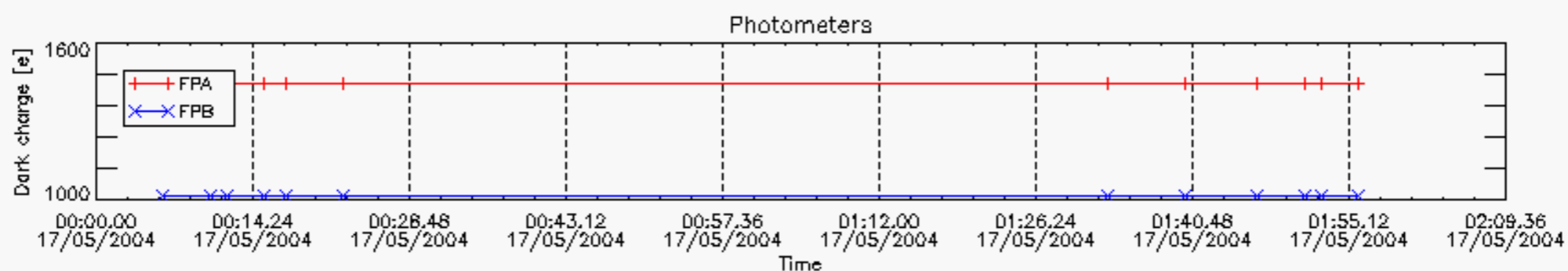
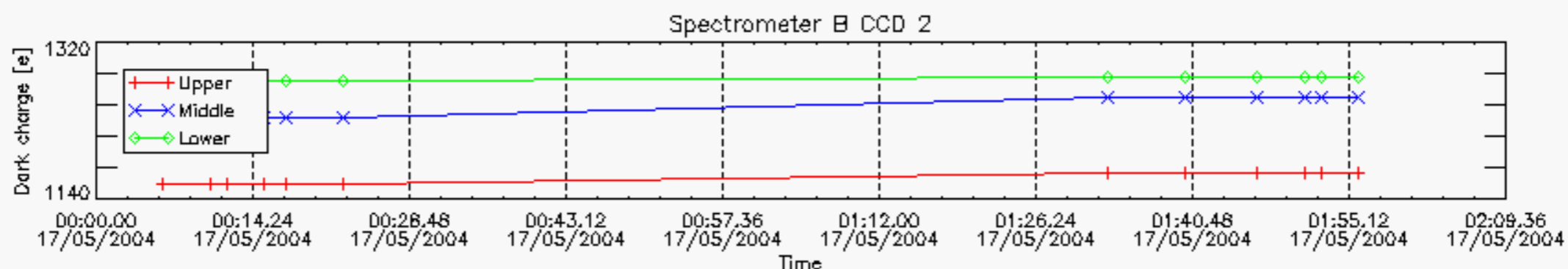
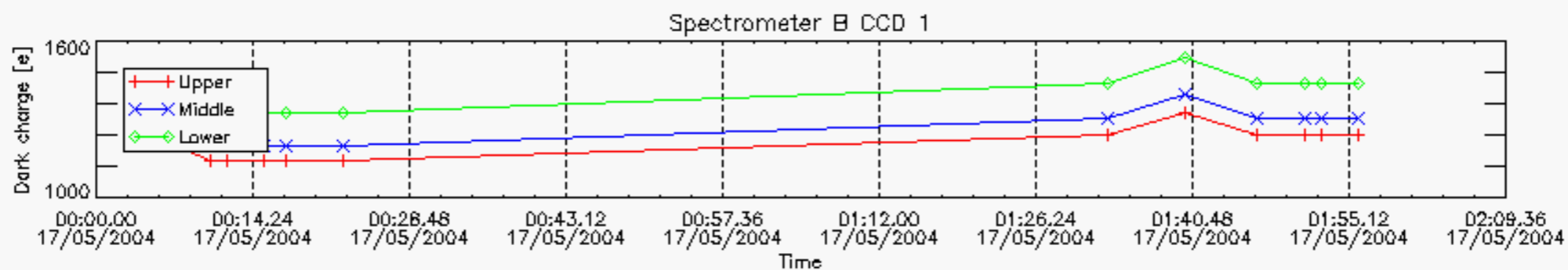
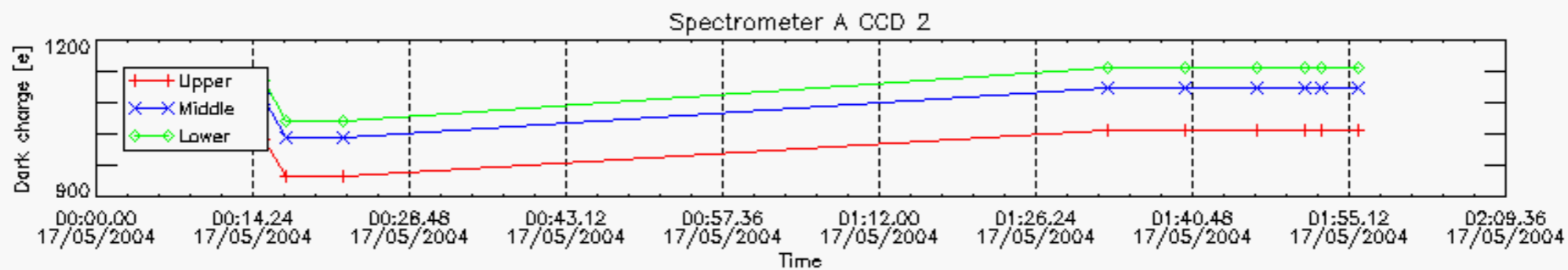
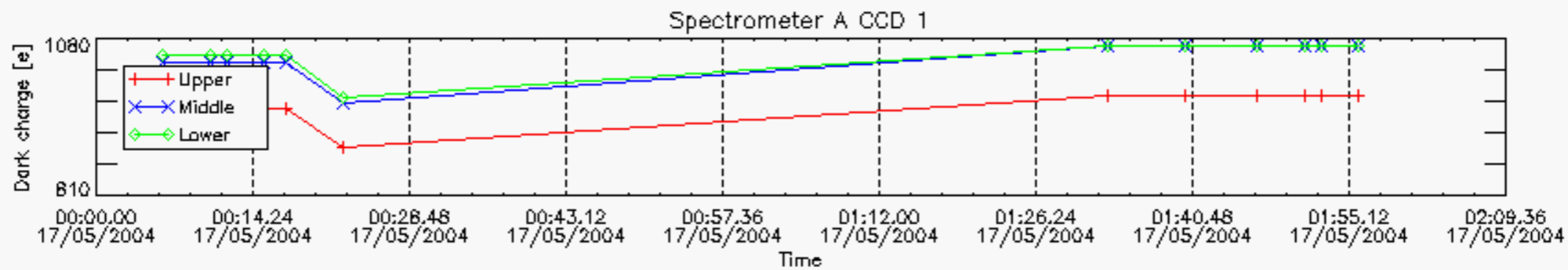


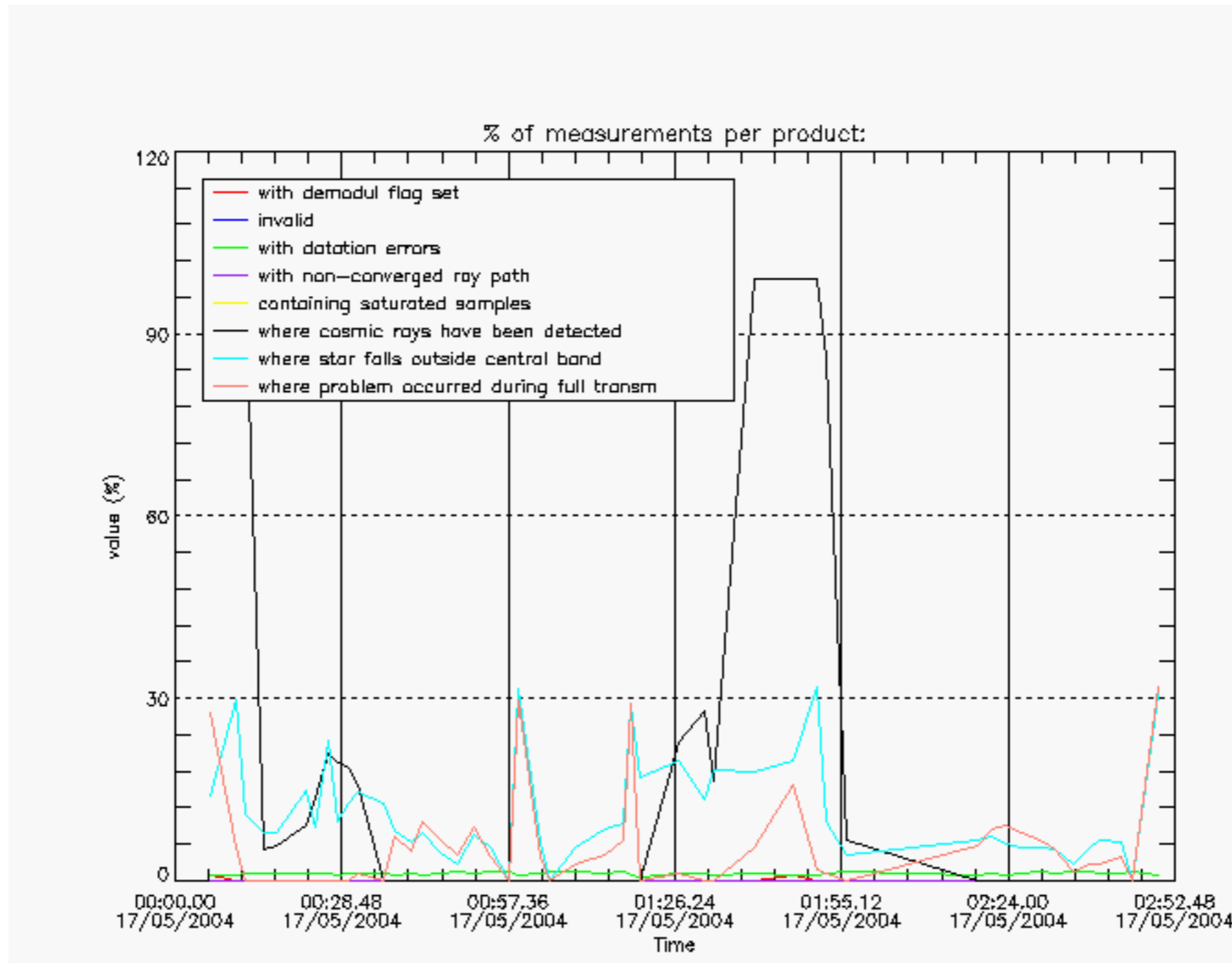
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

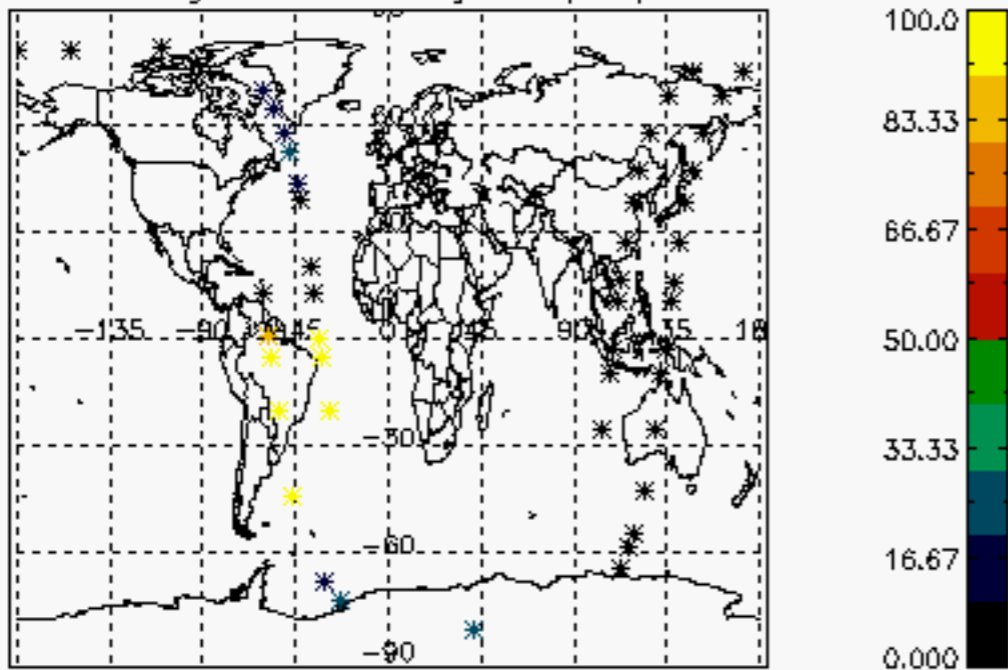
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.2	1446.5	1461.8	1447.5
St. deviation:	4.4950	5.8042	7.0629	8.1273
Maximum:	1538.0	1584.0	1515.0	1499.0
Minimum:	1436.0	1421.0	1444.0	1427.0
Number of data:	14450.	14450.	37200.	37200.



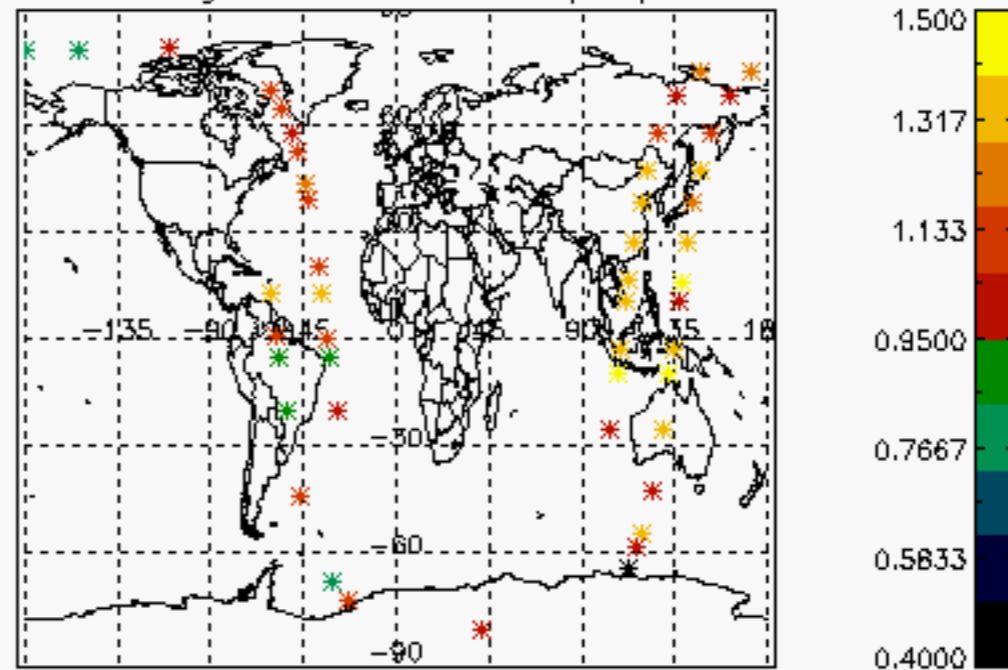




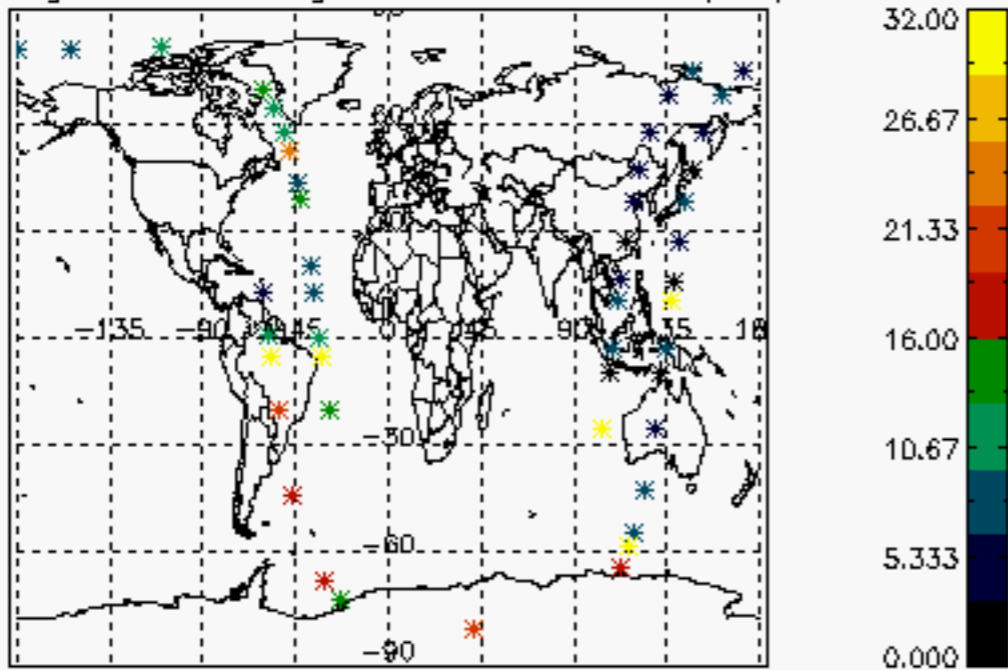
Percentage of cosmic ray hits per profile



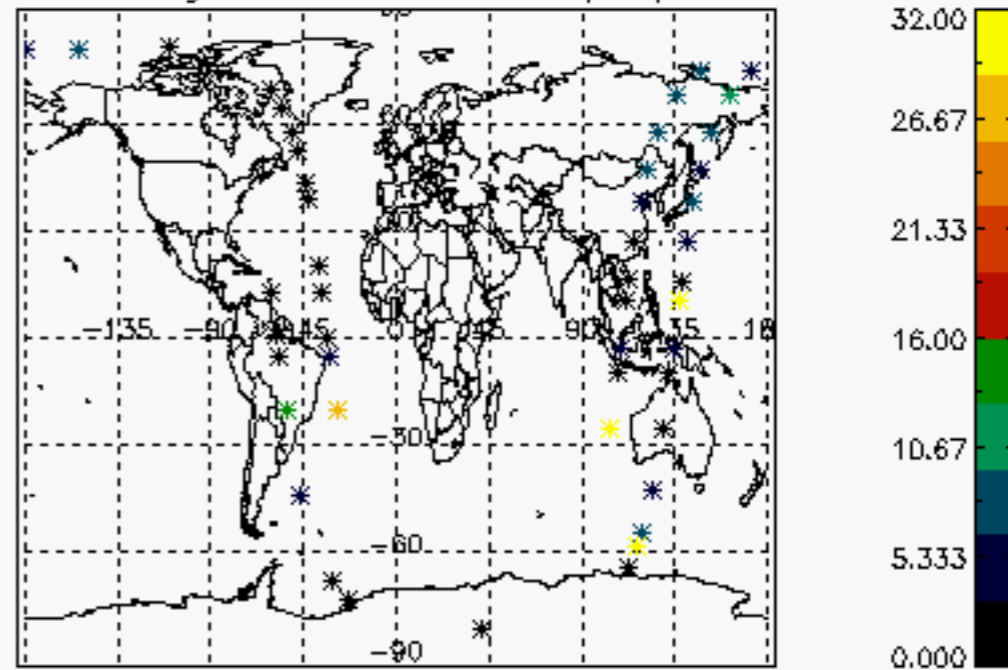
Percentage of datation errors per profile



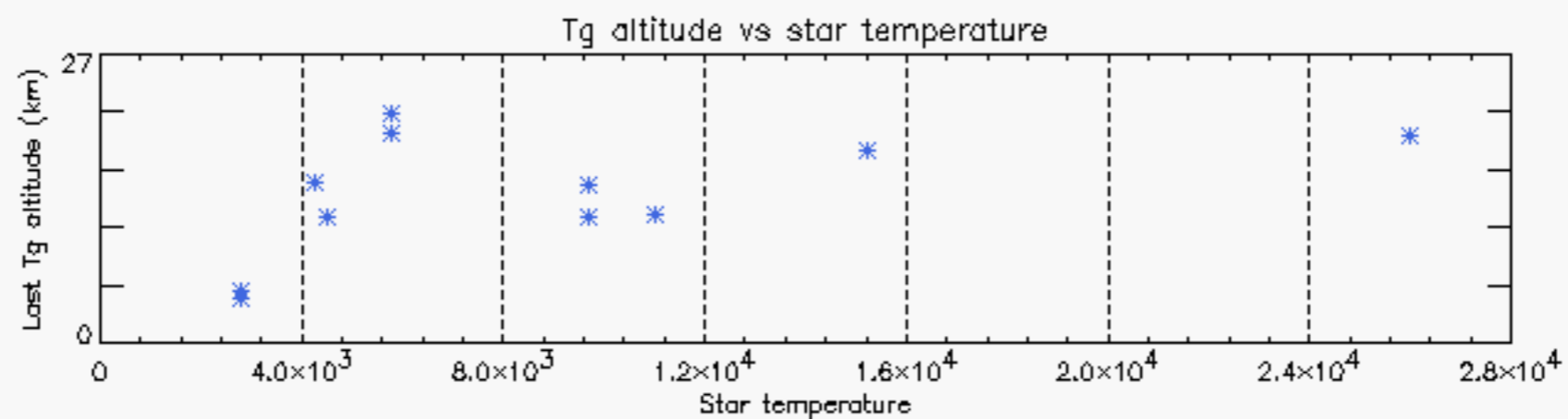
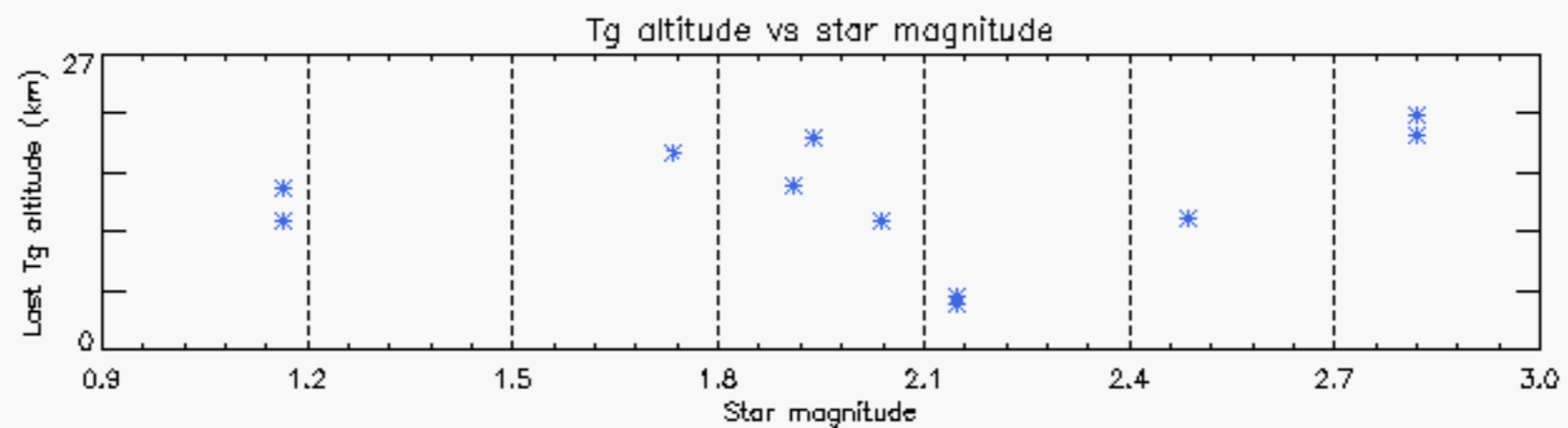
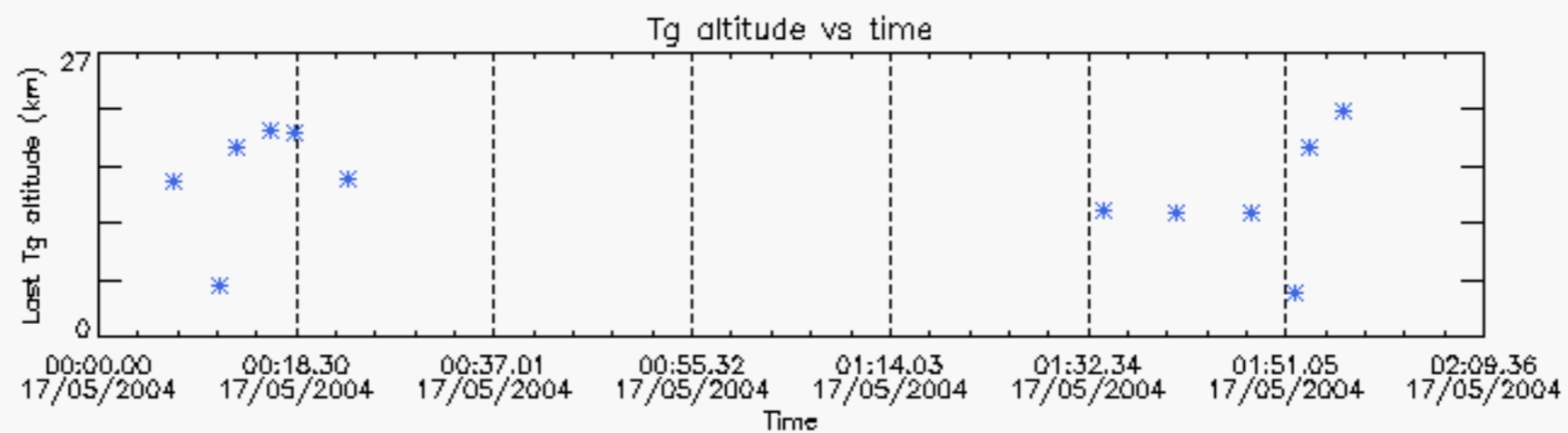
Percentage of star falling outside central band per profile



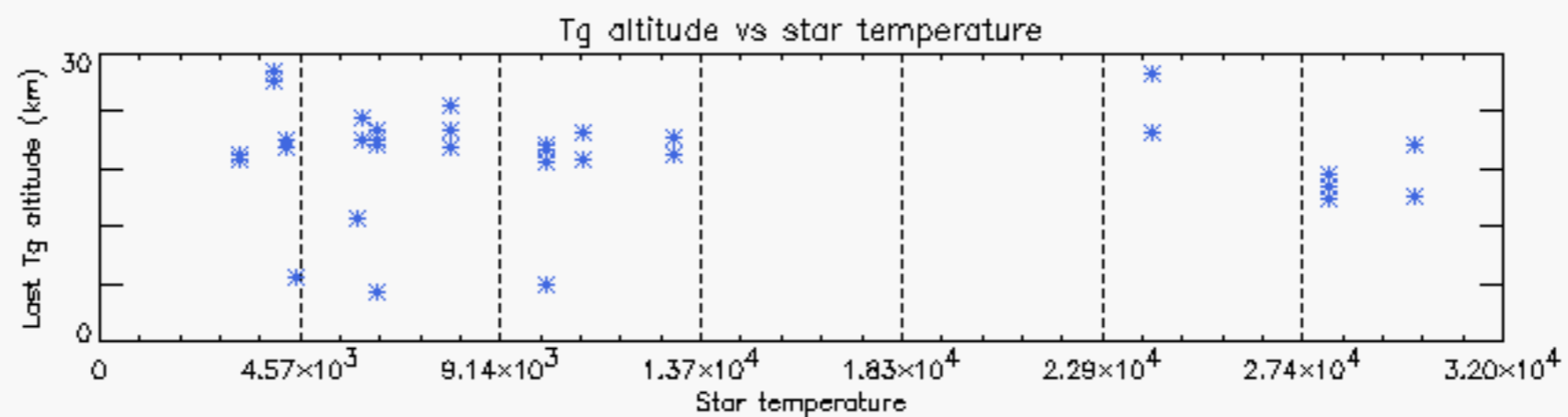
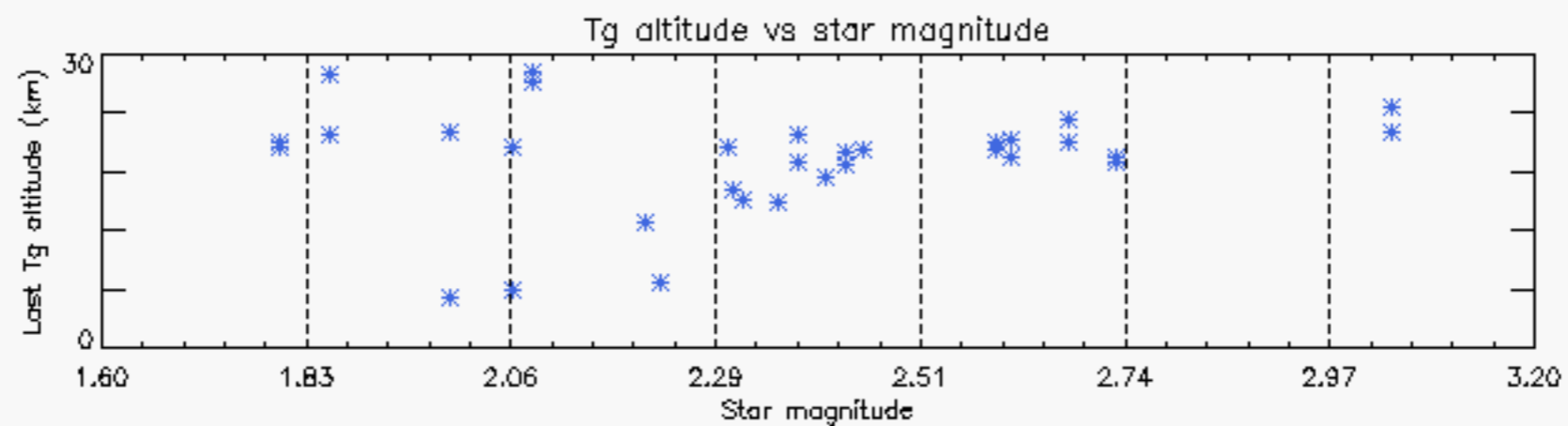
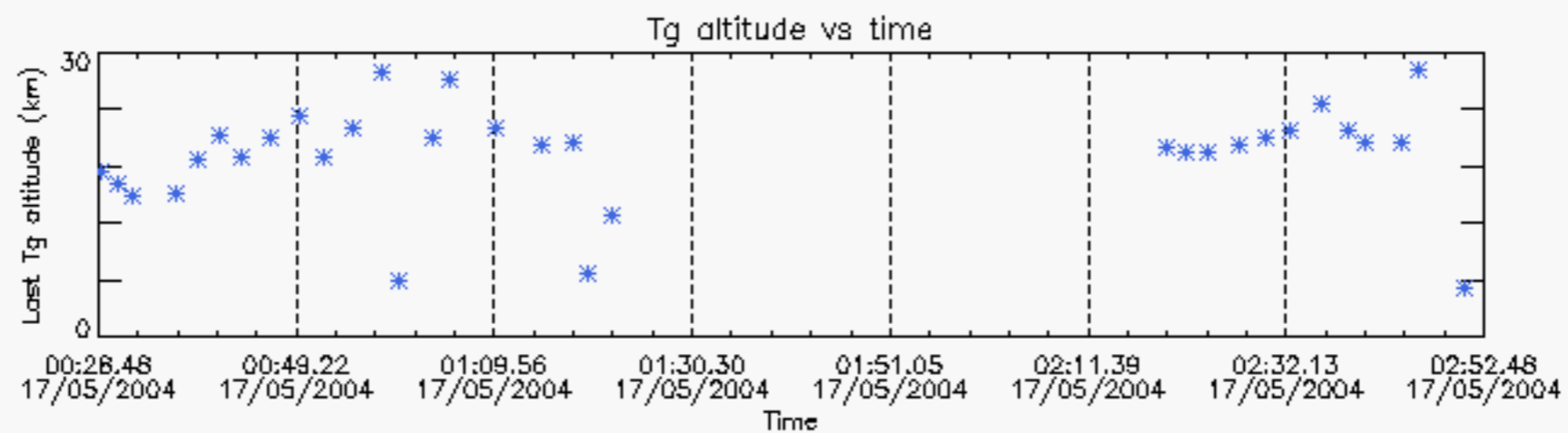
Percentage of saturation errors per profile



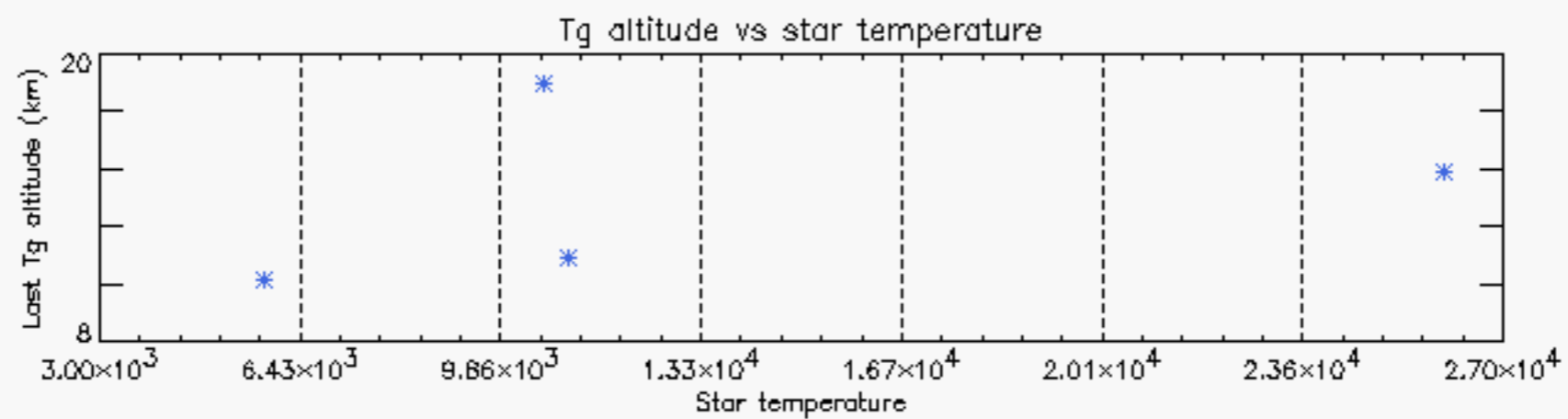
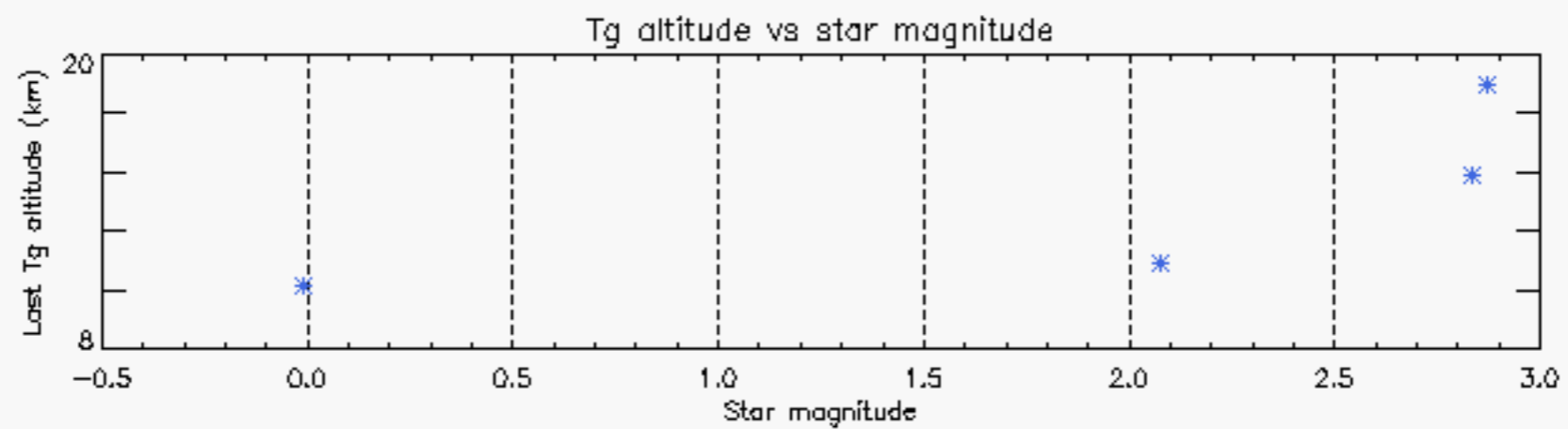
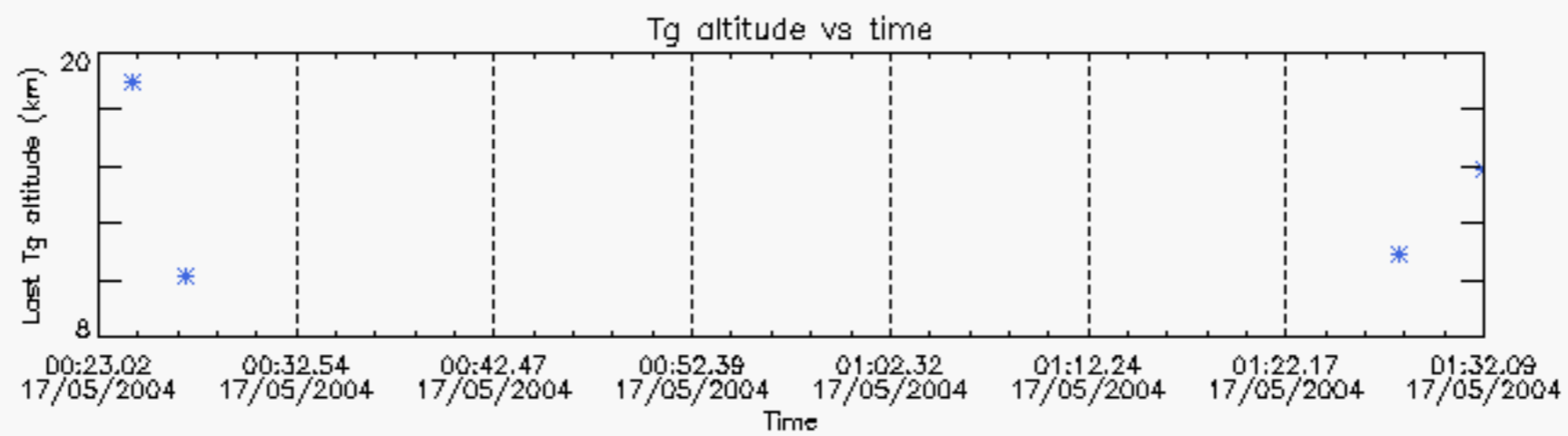
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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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
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19;	-1261.8;	01-MAY-2004	06:36:04;	Dark	;	90;	54Alp Peg	;	2.49;	11000;occ;	101;	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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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
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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	
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7;	-3591.2;	02-MAY-2004	00:23:50;	Bright;	46.5;	83;		;	2.38;	11000;occ;	93;	0;	11350	
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9;	-3303.3;	02-MAY-2004	00:28:38;	Bright;	53.0;	174;	52Psi UMa	;	3.00;	4400;occ;	106;	0;	11350	
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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	
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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	
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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
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26;	-354.9;	02-MAY-2004	01:17:46;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	11350
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28;	191.8;	02-MAY-2004	01:26:53;	Dark	;	43.0;	45;	Alp Pav	;	1.94;	26000;occ;	86;	0;	11351
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10;-3201.8; 02-MAY-2004 02:10:55; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;11351
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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
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