

GOMOS Daily Report 22-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	23MAY2004 03:42:57
Data source version	GOMOS/4.02
Start time of products	22-MAY-2004 (22MAY2004 00:00:00)
Stop time of products	23-MAY-2004 (23MAY2004 00:00:00)

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

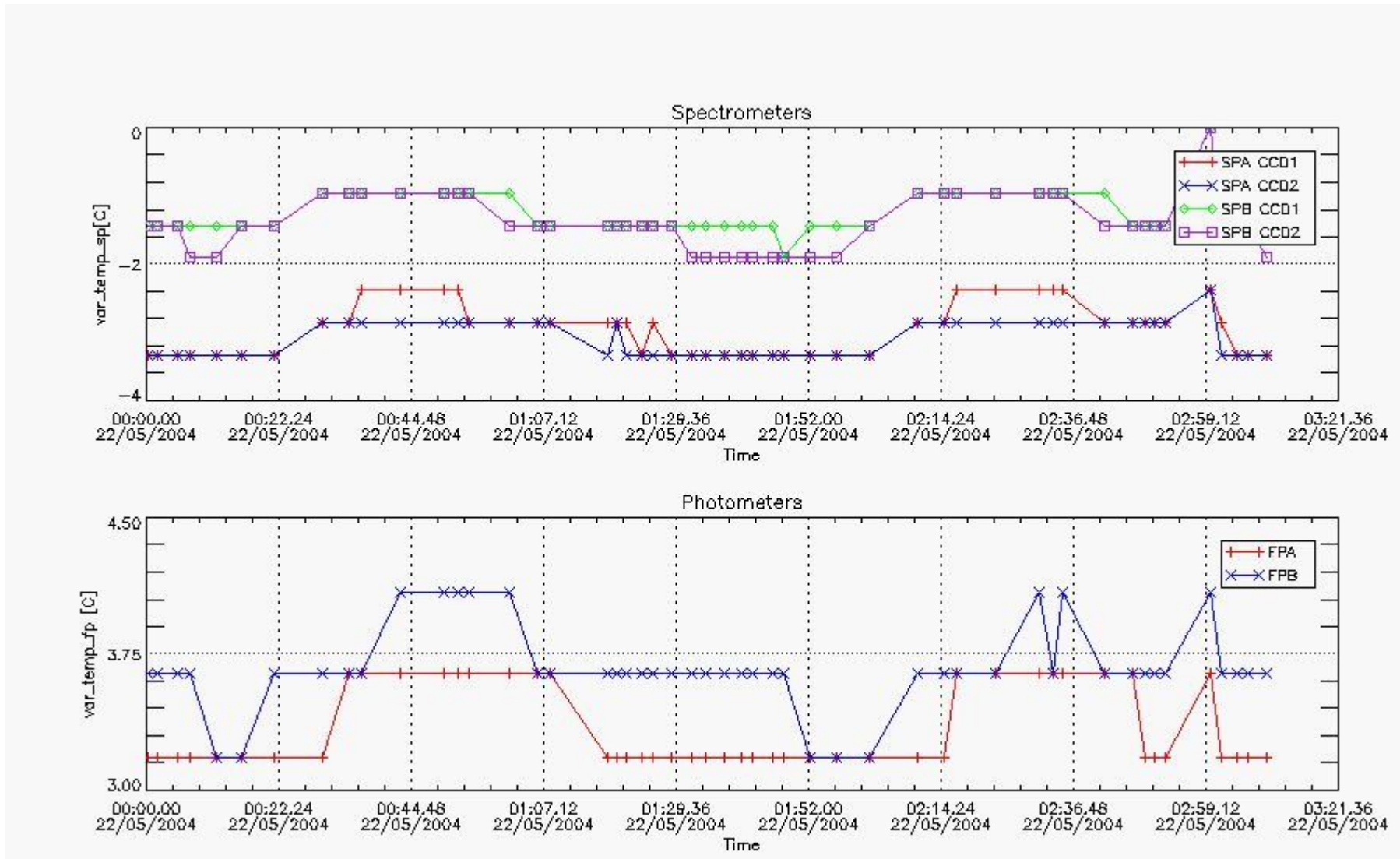
2. Summary of products arrived in PCF

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_1PNPDE20040522_000011_000000362027_00059_11636_0009.N1	22-MAY-2004 00:00:11	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	11636	No
GOM_TRA_1PNPDE20040522_000152_000000372027_00059_11636_0010.N1	22-MAY-2004 00:01:52	Bright	37.000	55	79Zet UMa	2.0600	10200.	74	11636	No
GOM_TRA_1PNPDE20040522_000516_000000432027_00059_11636_0011.N1	22-MAY-2004 00:05:16	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	11636	No
GOM_TRA_1PNPDE20040522_000716_000000402027_00059_11636_0012.N1	22-MAY-2004 00:07:16	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	11636	No
GOM_TRA_1PNPDE20040522_001149_000000342027_00059_11636_0013.N1	22-MAY-2004 00:11:49	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	11636	No
GOM_TRA_1PNPDE20040522_001608_000000482027_00059_11636_0014.N1	22-MAY-2004 00:16:08	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	11636	No
GOM_TRA_1PNPDE20040522_002135_000001102027_00059_11636_0015.N1	22-MAY-2004 00:21:35	Bright	110.00	66	37Gam Cyg	2.2080	5900.0	220	11636	No
GOM_TRA_1PNPDE20040522_002952_000000532027_00059_11636_0016.N1	22-MAY-2004 00:29:52	Twilight	52.500	58	21Alp And	2.0730	11000.	105	11636	No
GOM_TRA_1PNPDE20040522_003416_000000472027_00059_11636_0017.N1	22-MAY-2004 00:34:16	Twilight	47.000	140	88Gam Peg	2.8340	26000.	94	11636	No
GOM_TRA_1PNPDE20040522_003622_000000642027_00059_11636_0018.N1	22-MAY-2004 00:36:22	Dark	64.000	90	54Alp Peg	2.4870	11000.	128	11636	No
GOM_TRA_1PNPDE20040522_004303_000000502027_00059_11636_0019.N1	22-MAY-2004 00:43:03	Dark	50.000	52	16Bet Cet	2.0370	4500.0	100	11636	No
GOM_TRA_1PNPDE20040522_005021_000000662027_00059_11636_0020.N1	22-MAY-2004 00:50:21	Dark	65.500	18	24Alp PsA	1.1660	9700.0	131	11636	No
GOM_TRA_1PNPDE20040522_005248_000000412027_00059_11636_0021.N1	22-MAY-2004 00:52:48	Dark	41.000	9	Alp Eri	0.45300	24000.	82	11636	No
GOM_TRA_1PNPDE20040522_005426_000000592027_00059_11636_0022.N1	22-MAY-2004 00:54:26	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	11636	No
GOM_TRA_1PNPDE20040522_010130_000000462027_00060_11637_0023.N1	22-MAY-2004 01:01:30	Dark	45.500	45	Alp Pav	1.9400	26000.	91	11637	No
GOM_TRA_1PNPDE20040522_010610_000000472027_00060_11637_0024.N1	22-MAY-2004 01:06:10	Twilight	46.500	43	Alp TrA	1.9100	4250.0	93	11637	No
GOM_TRA_1PNPDE20040522_010818_000000442027_00060_11637_0025.N1	22-MAY-2004 01:08:18	Twilight	43.500	134	Bet TrA	2.8100	6600.0	87	11637	No
GOM_TRA_1PNPDE20040522_011754_000000612027_00060_11637_0000.N1	22-MAY-2004 01:17:54	Bright	61.000	16	21Alp Sco	1.0200	3000.0	122	11637	No
GOM_TRA_1PNPDE20040522_011929_000000492027_00060_11637_0001.N1	22-MAY-2004 01:19:29	Bright	48.500	80	7Del Sco	2.3160	30000.	97	11637	No
GOM_TRA_1PNPDE20040522_012117_000000552027_00060_11637_0002.N1	22-MAY-2004 01:21:17	Bright	55.000	86	35Eta Oph	2.4300	10200.	110	11637	No
GOM_TRA_1PNPDE20040522_012351_000000402027_00060_11637_0003.N1	22-MAY-2004 01:23:51	Bright	40.000	104	27Bet Lib	2.6140	13100.	80	11637	No
GOM_TRA_1PNPDE20040522_012541_000000462027_00060_11637_0004.N1	22-MAY-2004 01:25:41	Bright	46.000	120	1Del Oph	2.7340	3200.0	92	11637	No
GOM_TRA_1PNPDE20040522_012845_000000432027_00060_11637_0005.N1	22-MAY-2004 01:28:45	Bright	43.000	102	24Alp Ser	2.6000	4250.0	86	11637	No
GOM_TRA_1PNPDE20040522_013213_000000412027_00060_11637_0006.N1	22-MAY-2004 01:32:13	Bright	40.500	3	16Alp Boo	-0.050000	4250.0	81	11637	No
GOM_TRA_1PNPDE20040522_013429_000000422027_00060_11637_0007.N1	22-MAY-2004 01:34:29	Bright	41.500	83		2.3780	11000.	83	11637	No
GOM_TRA_1PNPDE20040522_013739_000000372027_00060_11637_0008.N1	22-MAY-2004 01:37:39	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11637	No
GOM_TRA_1PNPDE20040522_014047_000000382027_00060_11637_0009.N1	22-MAY-2004 01:40:47	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	11637	No
GOM_TRA_1PNPDE20040522_014228_000000402027_00060_11637_0010.N1	22-MAY-2004 01:42:28	Bright	40.000	55	79Zet UMa	2.0600	10200.	80	11637	No
GOM_TRA_1PNPDE20040522_014551_000000402027_00060_11637_0011.N1	22-MAY-2004 01:45:51	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	11637	No
GOM_TRA_1PNPDE20040522_014753_000000382027_00060_11637_0012.N1	22-MAY-2004 01:47:53	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	11637	No
GOM_TRA_1PNPDE20040522_015223_000000372027_00060_11637_0013.N1	22-MAY-2004 01:52:23	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	11637	No
GOM_TRA_1PNPDE20040522_015644_000000472027_00060_11637_0014.N1	22-MAY-2004 01:56:44	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	11637	No
GOM_TRA_1PNPDE20040522_020210_000001102027_00060_11637_0015.N1	22-MAY-2004 02:02:10	Bright	109.50	66	37Gam Cyg	2.2080	5900.0	219	11637	No
GOM_TRA_1PNPDE20040522_021029_000000522027_00060_11637_0016.N1	22-MAY-2004 02:10:29	Twilight	51.500	58	21Alp And	2.0730	11000.	103	11637	No
GOM_TRA_1PNPDE20040522_021452_000000482027_00060_11637_0017.N1	22-MAY-2004 02:14:52	Twilight	47.500	140	88Gam Peg	2.8340	26000.	95	11637	No
GOM_TRA_1PNPDE20040522_021658_000000632027_00060_11637_0018.N1	22-MAY-2004 02:16:58	Dark	62.500	90	54Alp Peg	2.4870	11000.	125	11637	No
GOM_TRA_1PNPDE20040522_022338_000000492027_00060_11637_0019.N1	22-MAY-2004 02:23:38	Dark	49.000	52	16Bet Cet	2.0370	4500.0	98	11637	No
GOM_TRA_1PNPDE20040522_023058_000000642027_00060_11637_0020.N1	22-MAY-2004 02:30:58	Dark	64.000	18	24Alp PsA	1.1660	9700.0	128	11637	No
GOM_TRA_1PNPDE20040522_023324_000000492027_00060_11637_0021.N1	22-MAY-2004 02:33:24	Dark	49.000	9	Alp Eri	0.45300	24000.	98	11637	No
GOM_TRA_1PNPDE20040522_023500_000000512027_00060_11637_0022.N1	22-MAY-2004 02:35:00	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	11637	No
GOM_TRA_1PNPDE20040522_024206_000000492027_00061_11638_0023.N1	22-MAY-2004 02:42:06	Dark	49.000	45	Alp Pav	1.9400	26000.	98	11638	No
GOM_TRA_1PNPDE20040522_024647_000000442027_00061_11638_0024.N1	22-MAY-2004 02:46:47	Twilight	43.500	43	Alp TrA	1.9100	4250.0	87	11638	No
GOM_TRA_1PNPDE20040522_024854_000000432027_00061_11638_0025.N1	22-MAY-2004 02:48:54	Twilight	42.500	134	Bet TrA	2.8100	6600.0	85	11638	No
GOM_TRA_1PNPDE20040522_025029_000000522027_00061_11638_0026.N1	22-MAY-2004 02:50:29	Bright	52.000	4	Alp1Cen	-0.010000	5800.0	104	11638	No
GOM_TRA_1PNPDE20040522_025228_000000592027_00061_11638_0027.N1	22-MAY-2004 02:52:28	Bright	58.500	38	20Eps Sgr	1.8360	11000.	117	11638	No
GOM_TRA_1PNPDE20040522_030005_000000482027_00061_11638_0000.N1	22-MAY-2004 03:00:05	Bright	48.000	80	7Del Sco	2.3160	30000.	96	11638	Yes
GOM_TRA_1PNPDE20040522_030153_000000552027_00061_11638_0001.N1	22-MAY-2004 03:01:53	Bright	55.000	86	35Eta Oph	2.4300	10200.	110	11638	No
GOM_TRA_1PNPDE20040522_030428_000000402027_00061_11638_0002.N1	22-MAY-2004 03:04:28	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	11638	No
GOM_TRA_1PNPDE20040522_030617_000000462027_00061_11638_0003.N1	22-MAY-2004 03:06:17	Bright	45.500	120	1Del Oph	2.7340	3200.0	91	11638	No

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



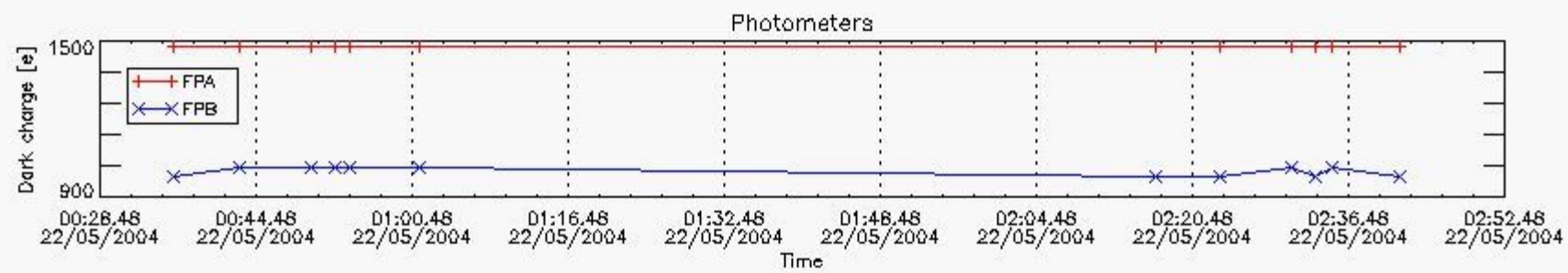
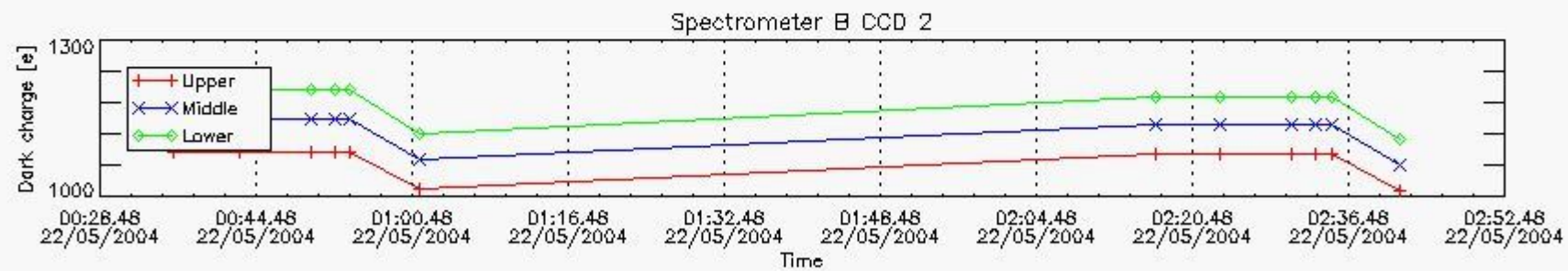
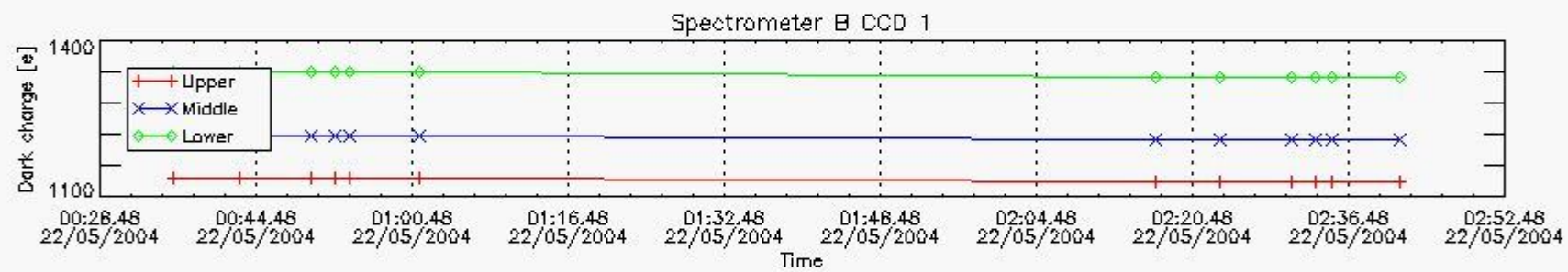
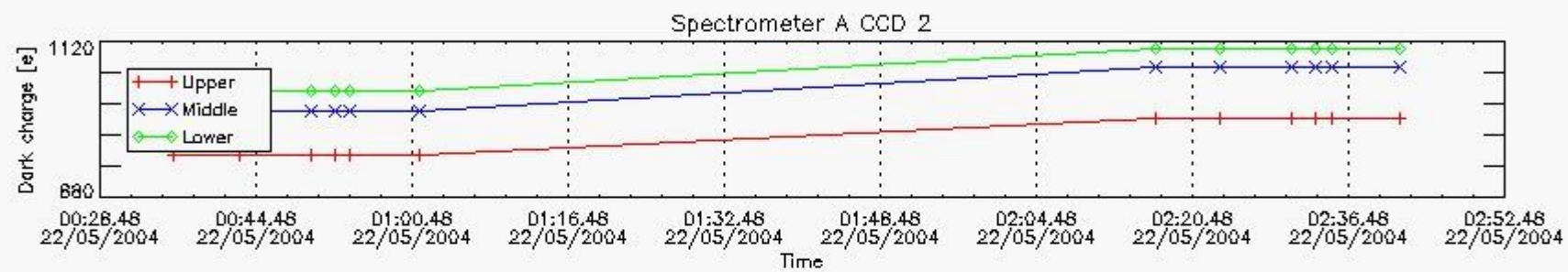
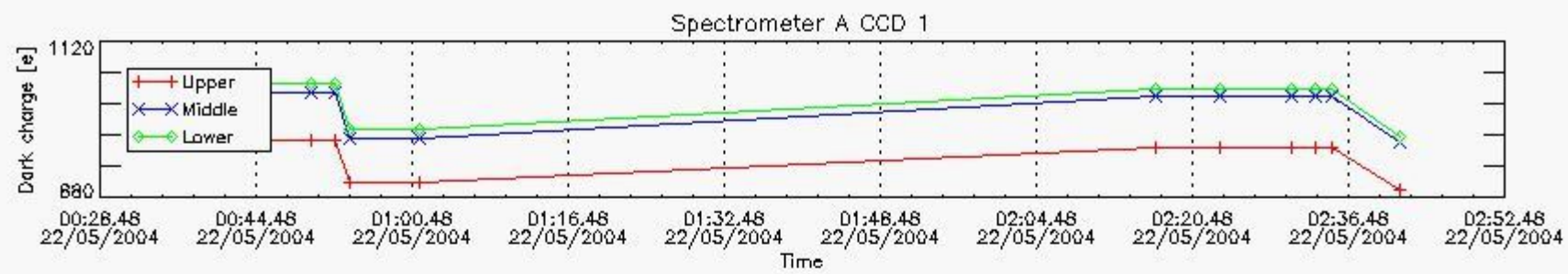
4. Overview of dark signal processing per product

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



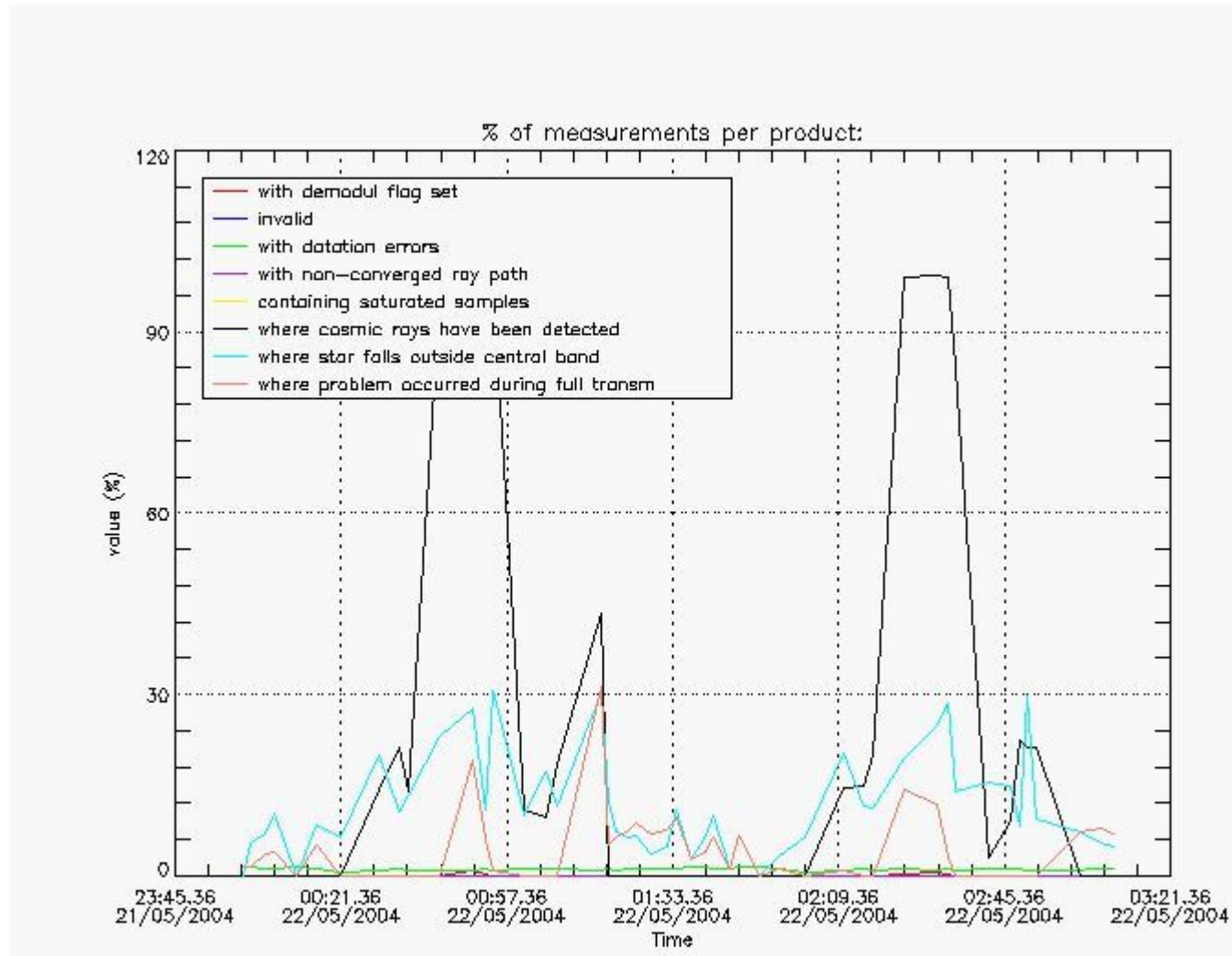
5. Demodulation flag and quality information monitoring

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:

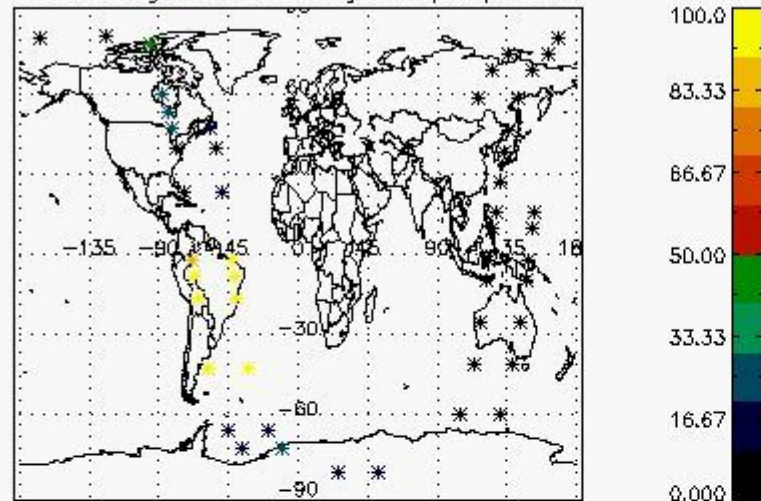
At least one measurement with demodulation flag set:	16.3265 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

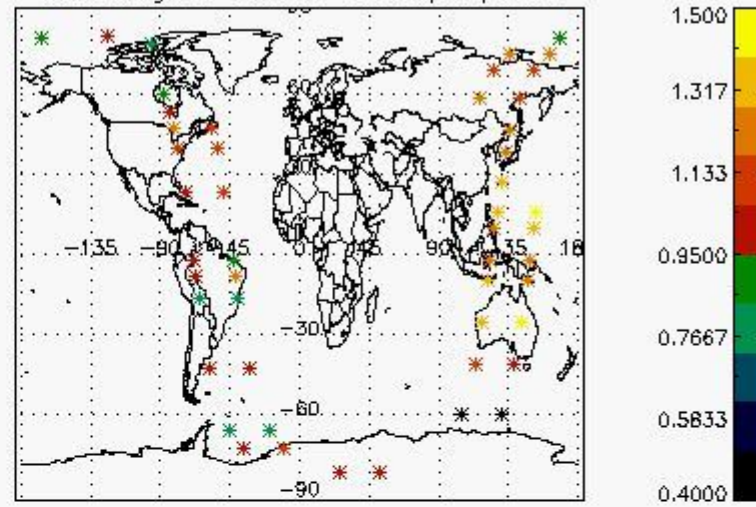


5.3 Plot quality information per product (world map)

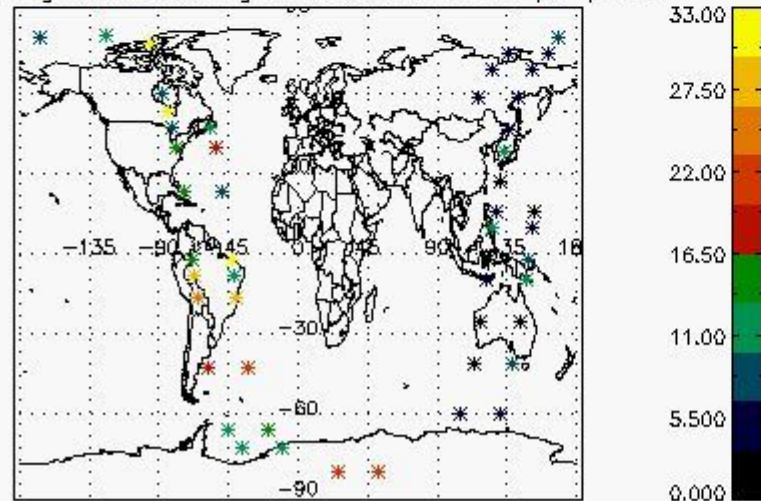
Percentage of cosmic ray hits per profile



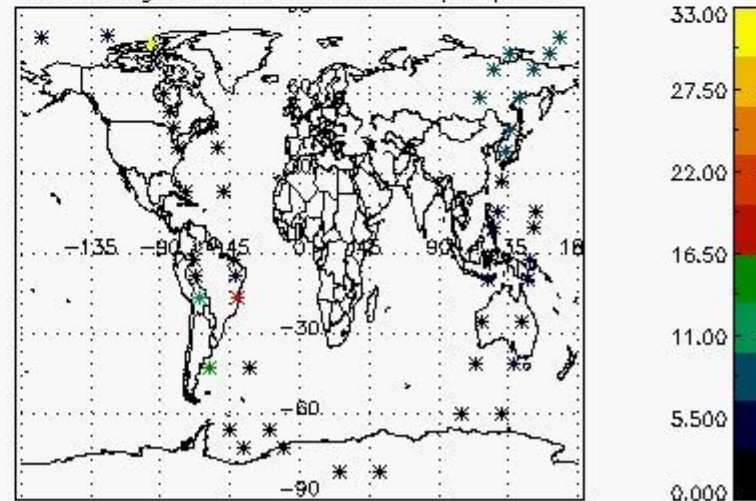
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



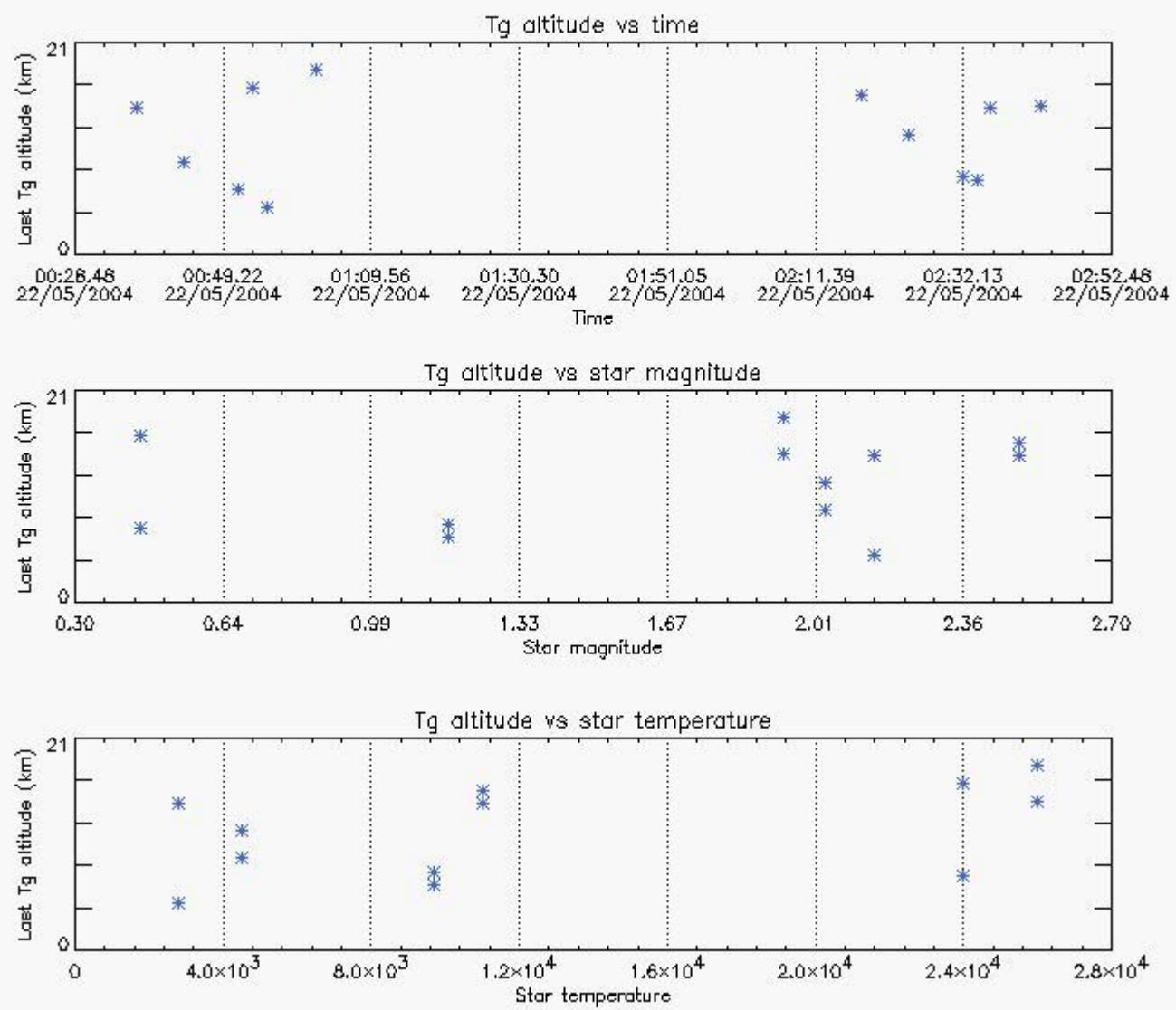
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.790	19.950	14.634
St. deviation:	4.5647	5.2083	2.5211
Maximum:	18.367	30.111	18.003
Minimum:	4.6513	4.8741	11.041
Number of data:	12.000	29.000	8.0000

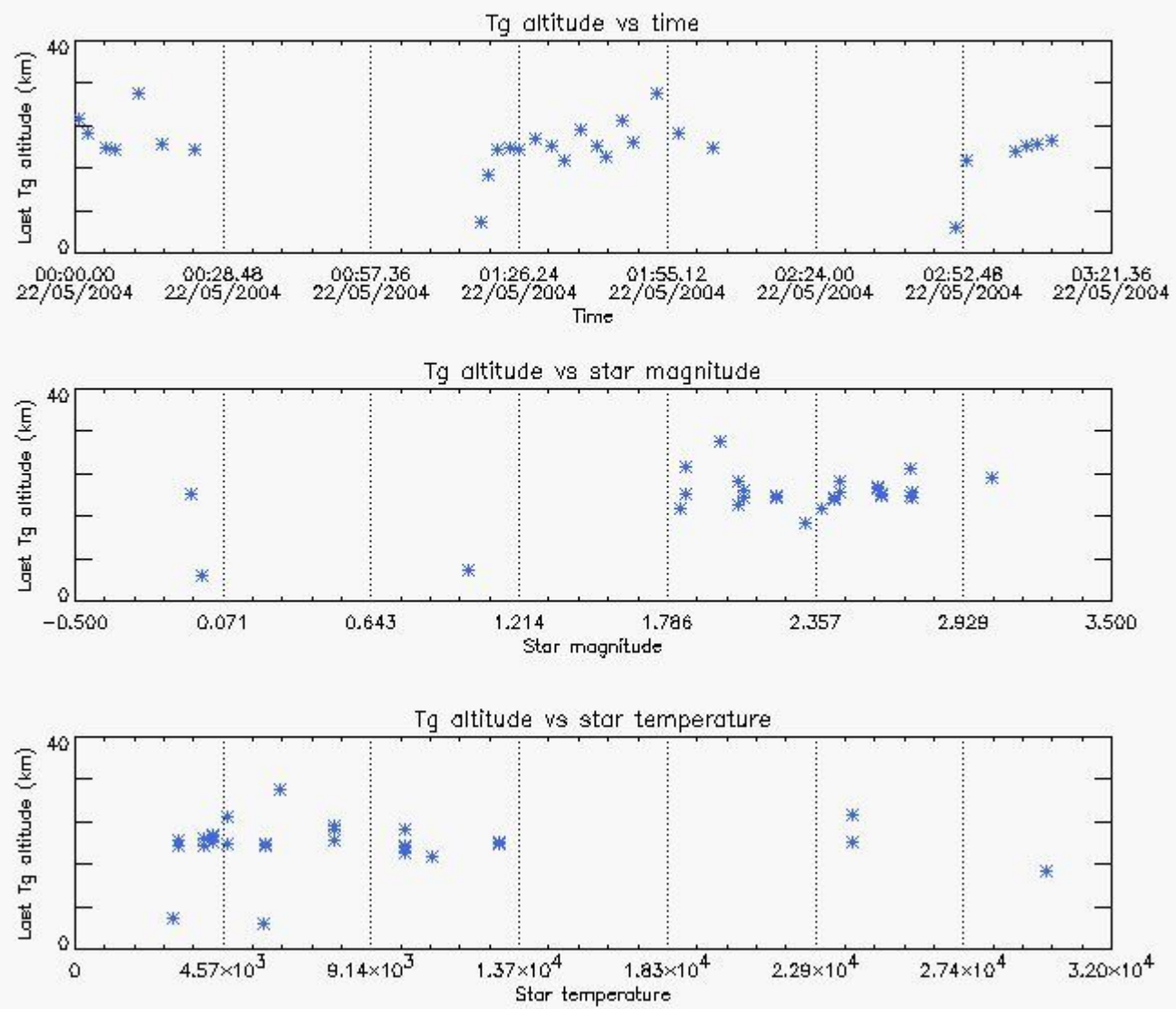
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



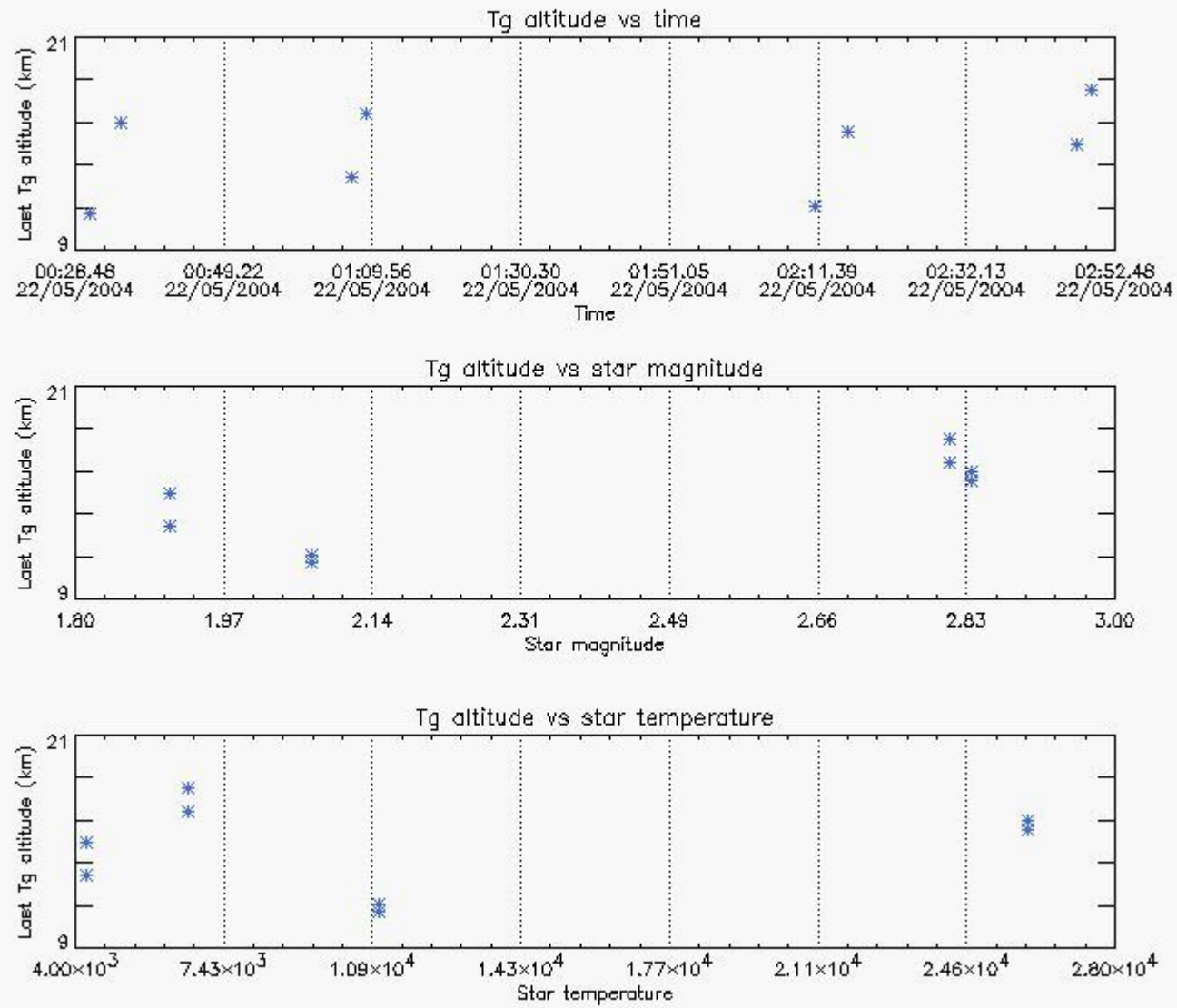
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

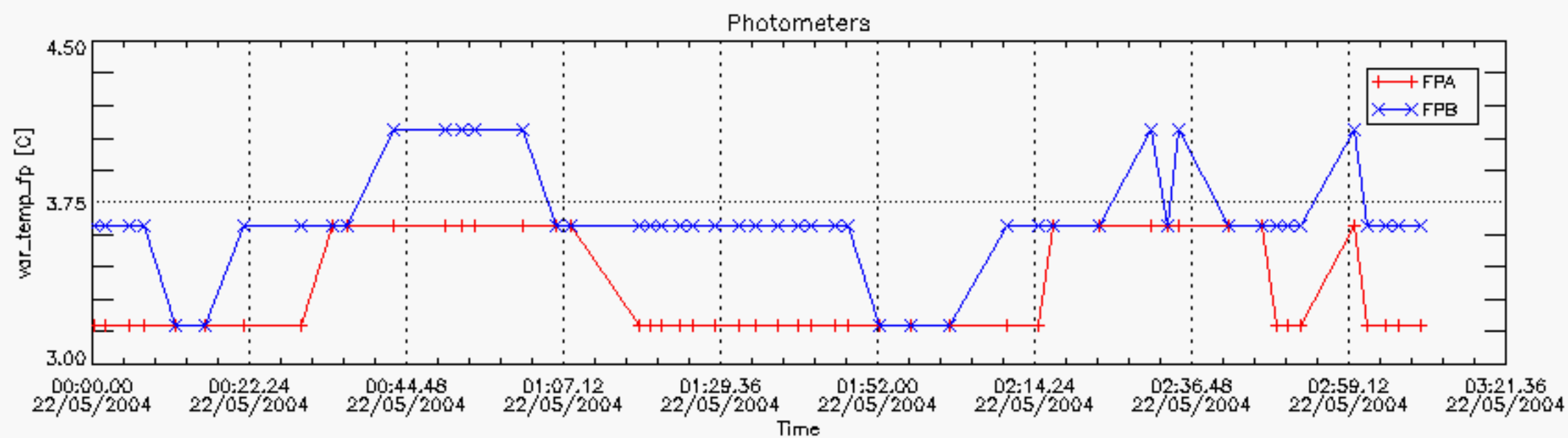
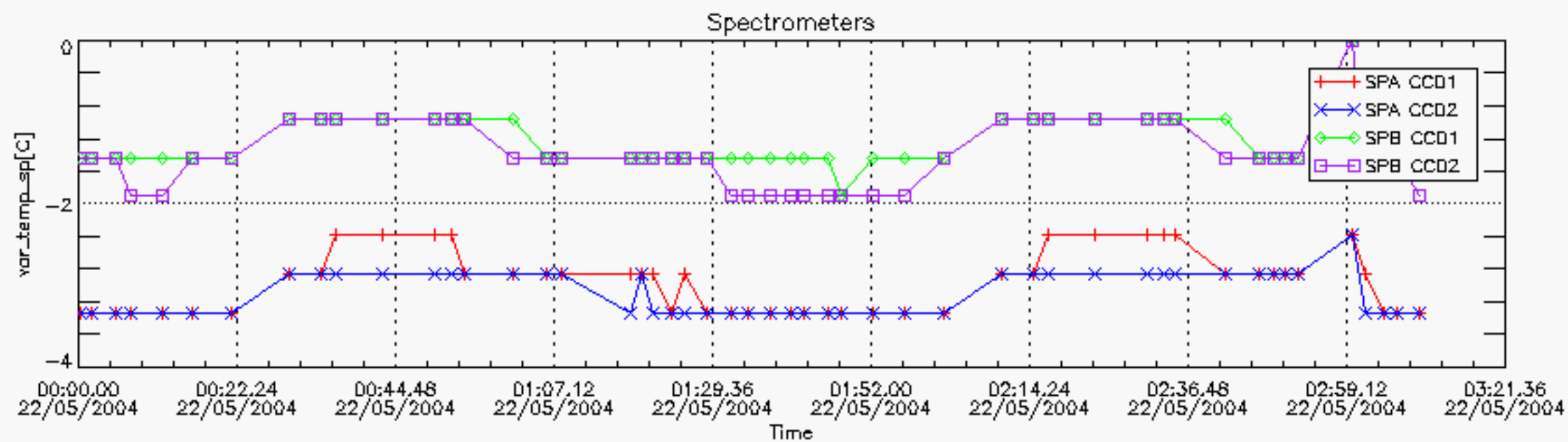
Tangent altitude at which the star is lost

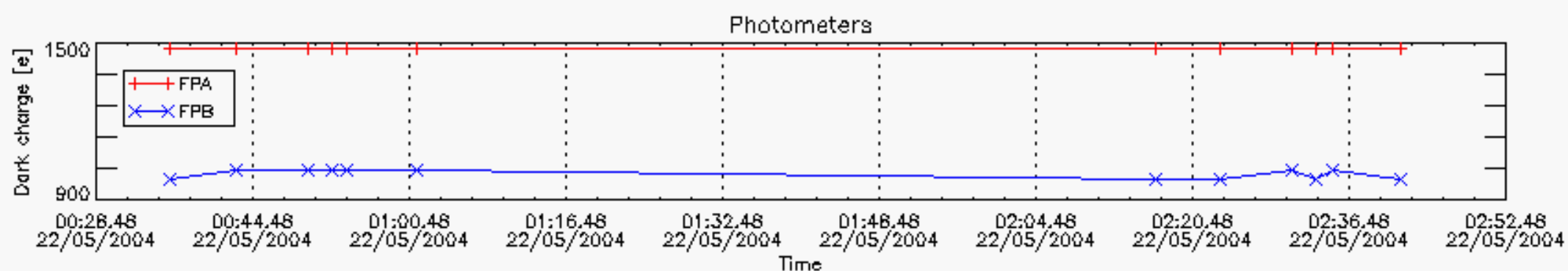
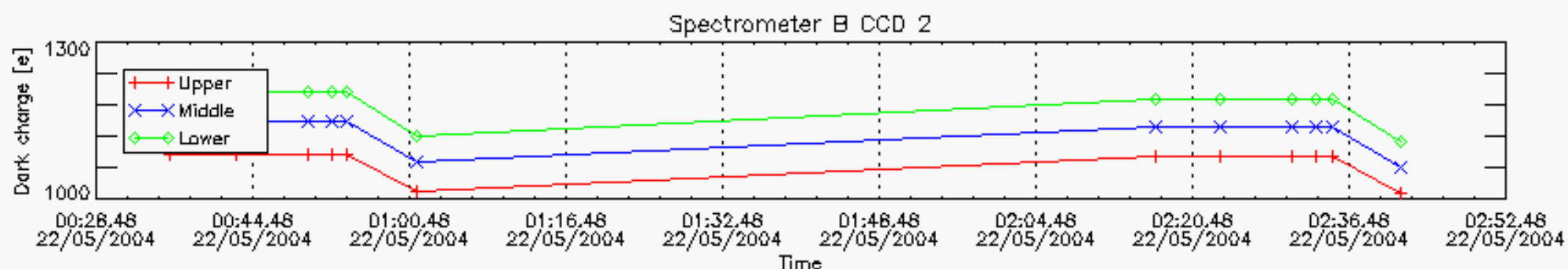
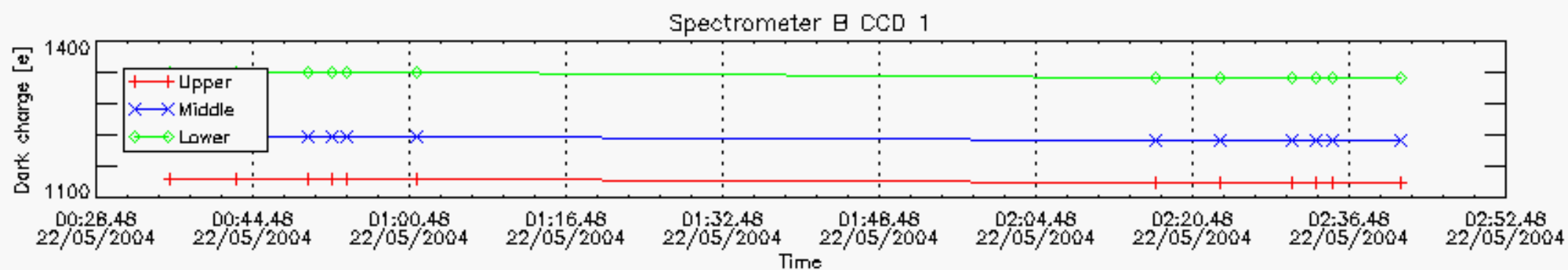
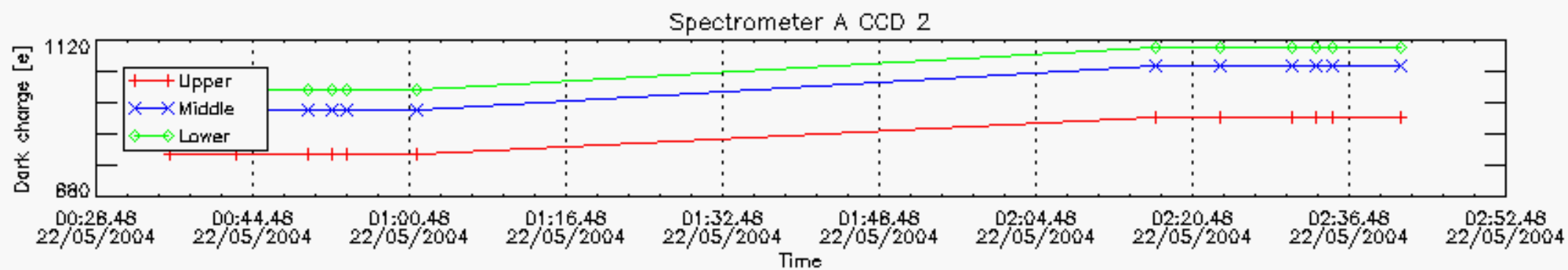
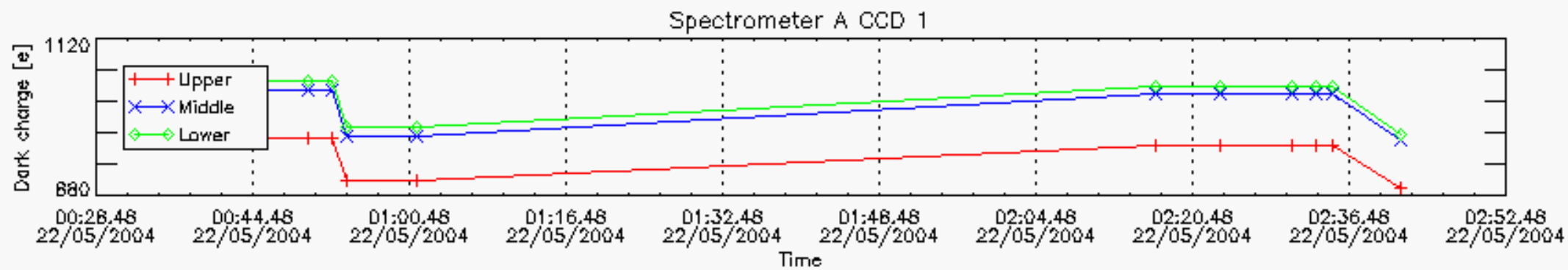


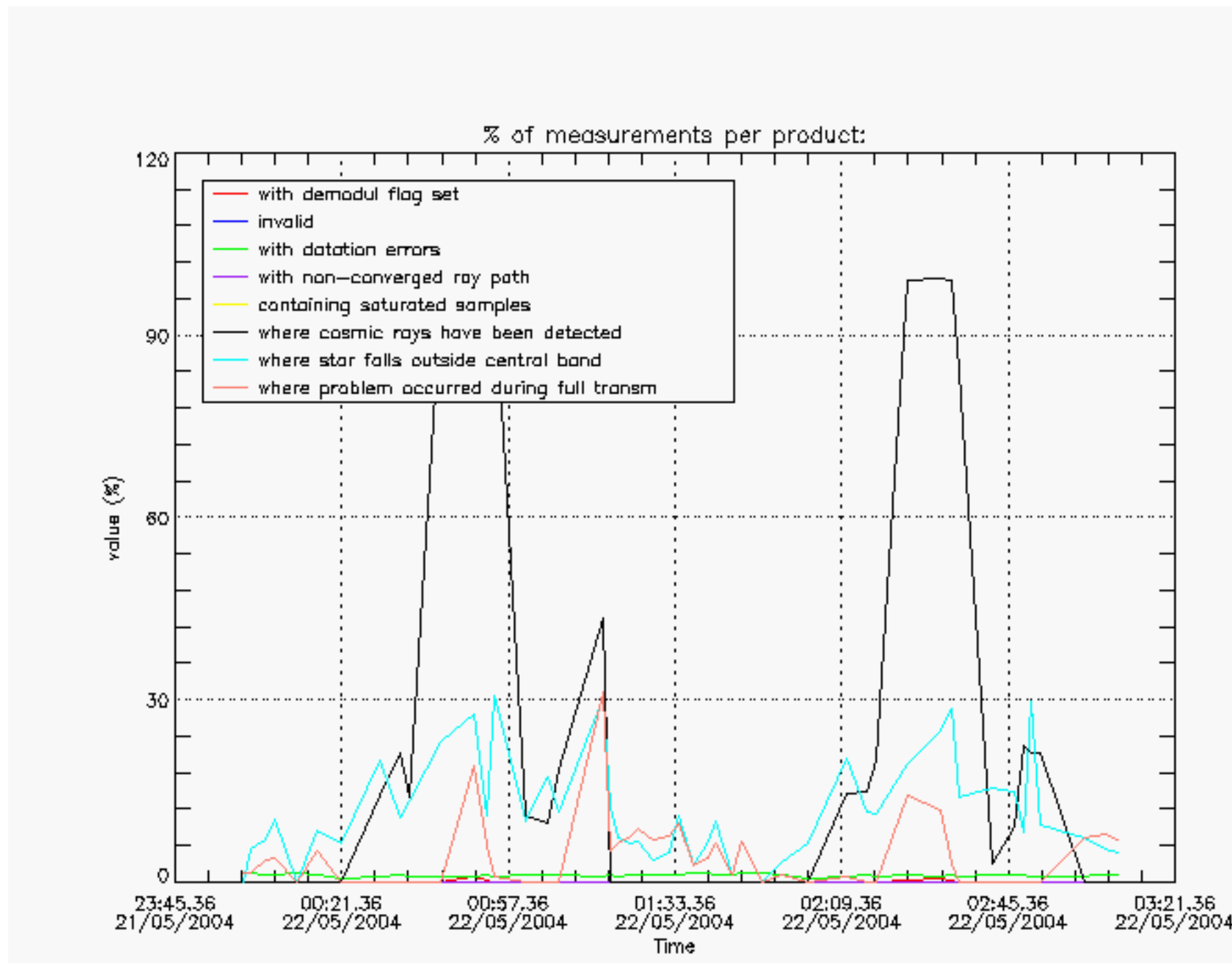
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

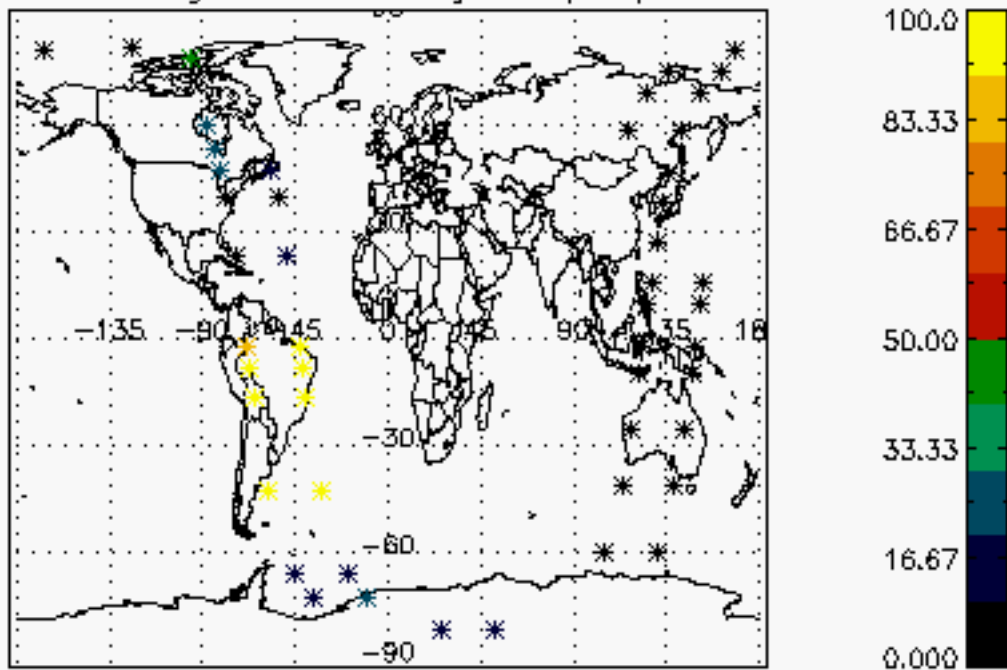
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.4	1447.5	1462.2	1447.7
St. deviation:	3.9060	5.2251	6.2255	7.2535
Maximum:	1494.0	1484.0	1511.0	1501.0
Minimum:	1444.0	1428.0	1439.0	1430.0
Number of data:	16350.	16350.	36300.	36300.



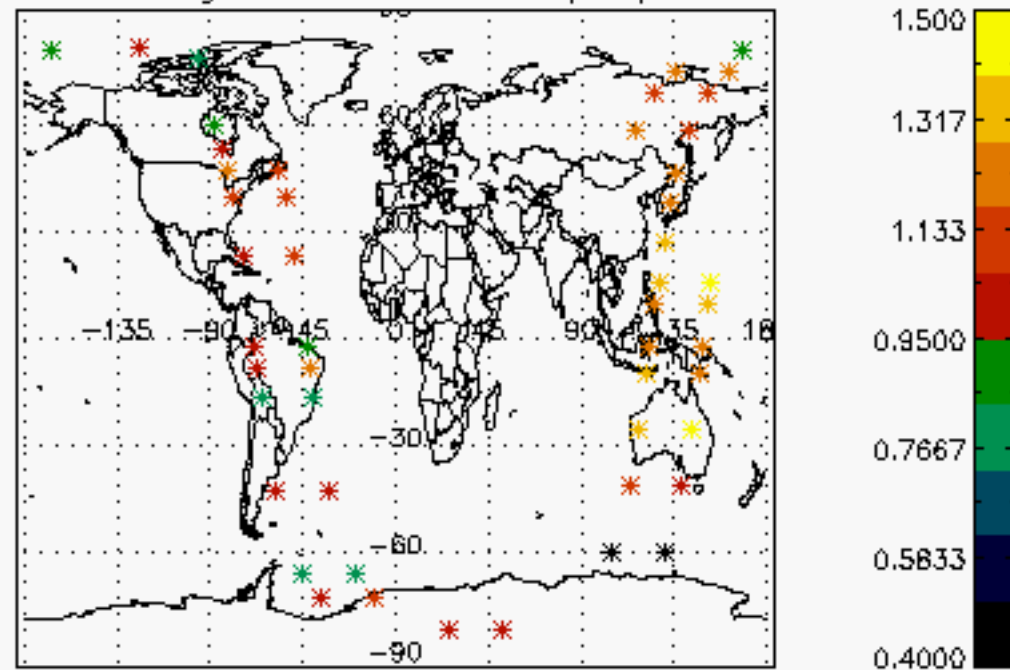




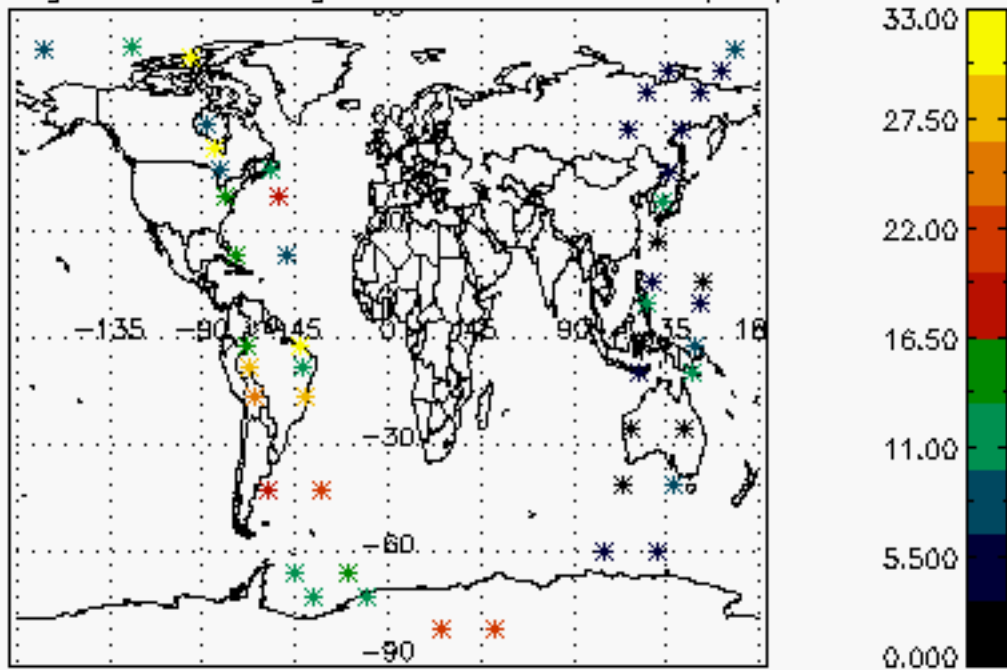
Percentage of cosmic ray hits per profile



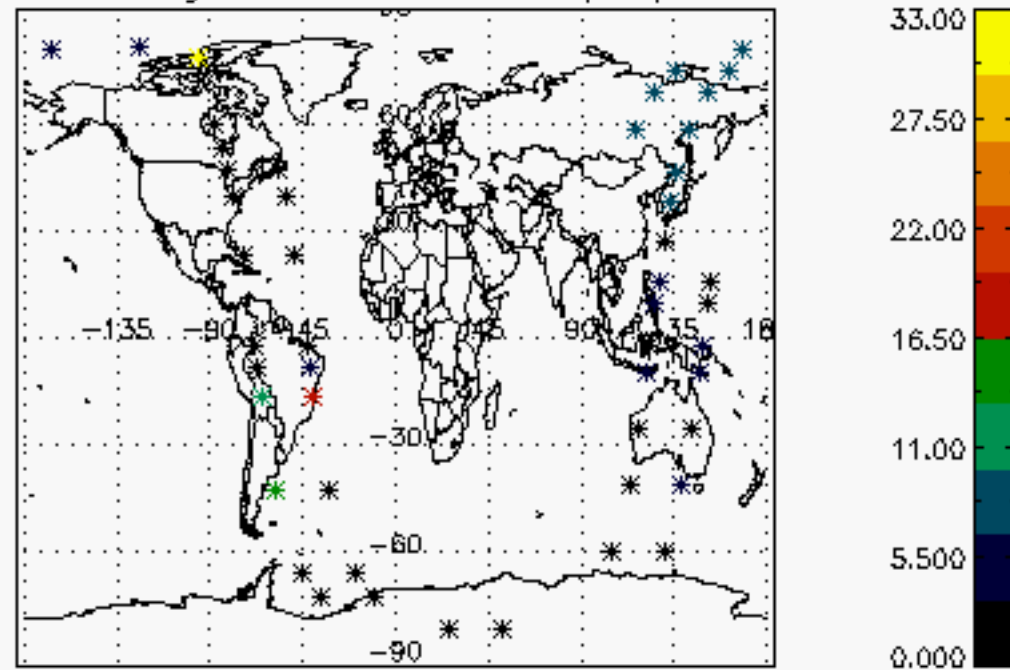
Percentage of datation errors per profile



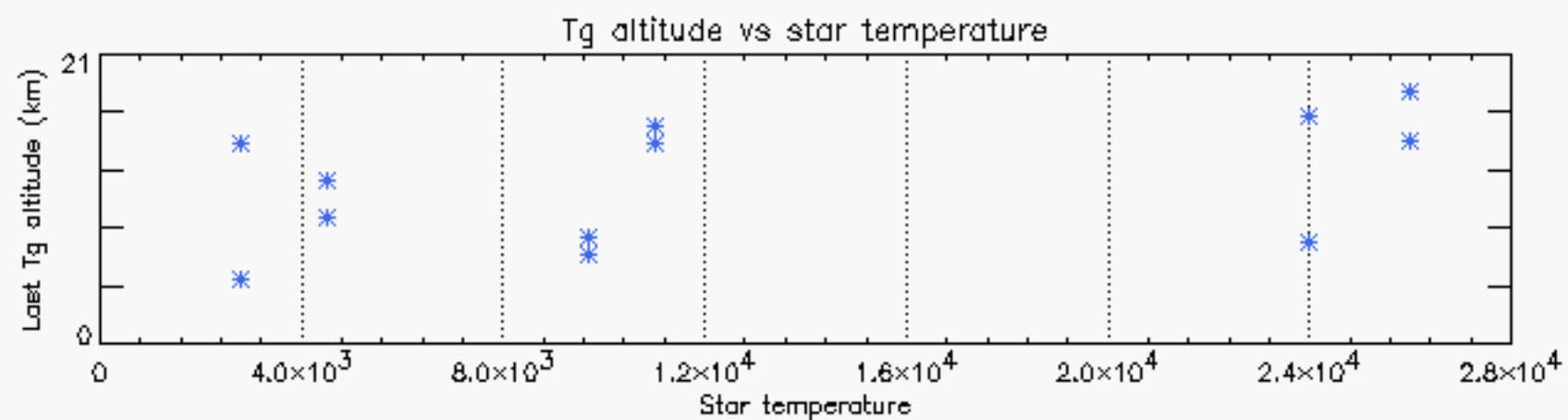
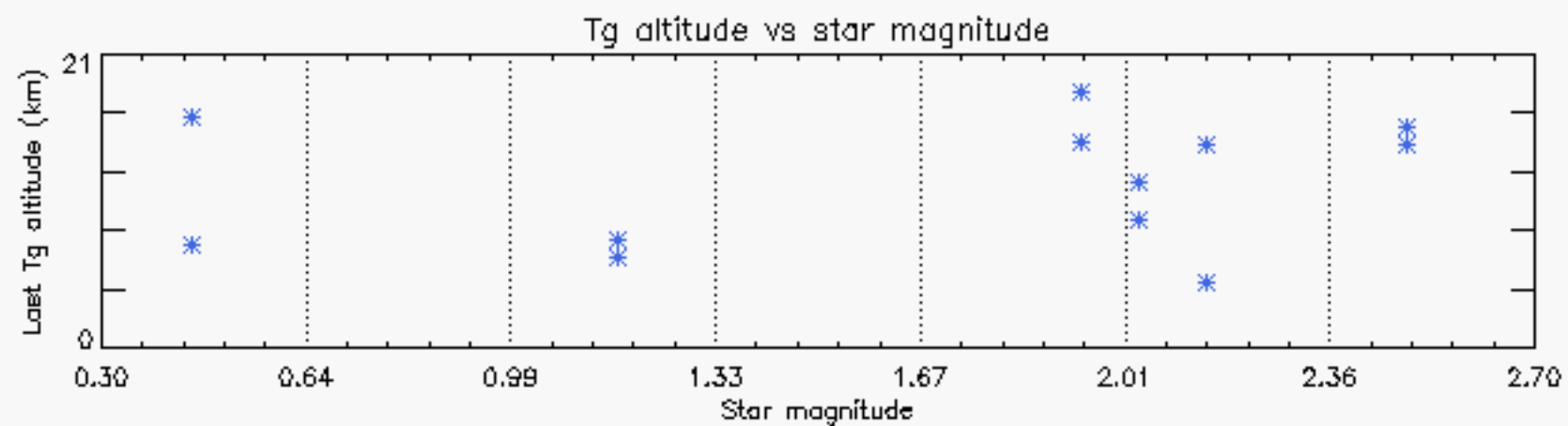
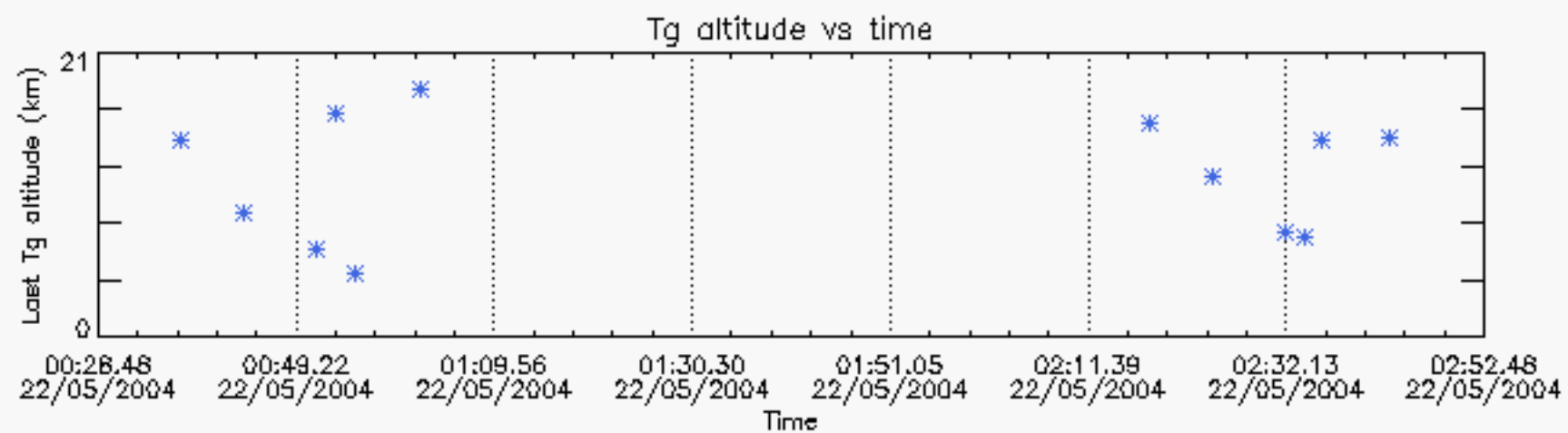
Percentage of star falling outside central band per profile



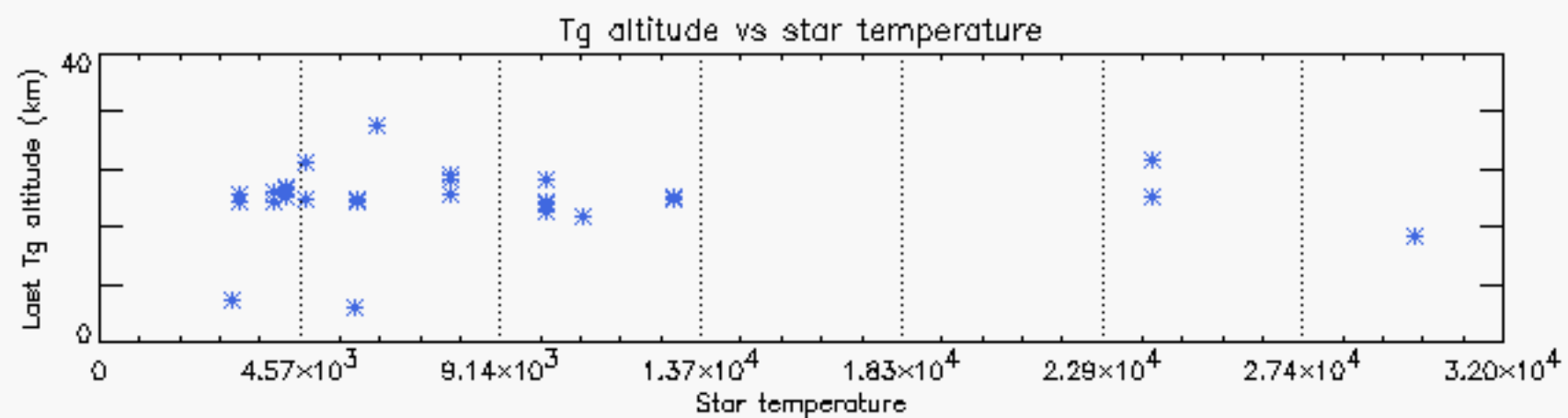
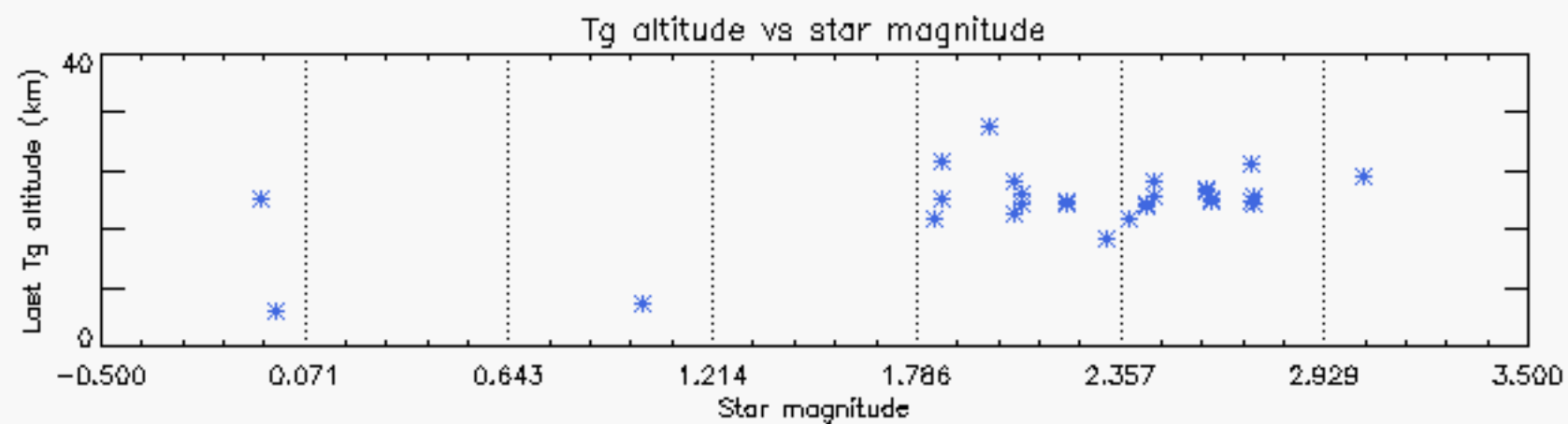
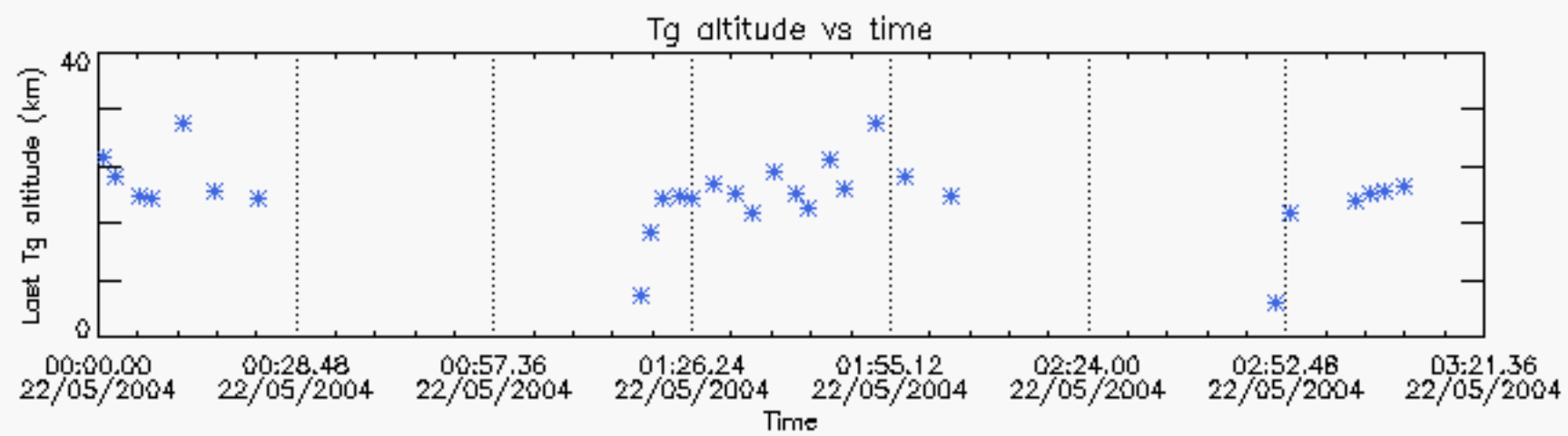
Percentage of saturation errors per profile



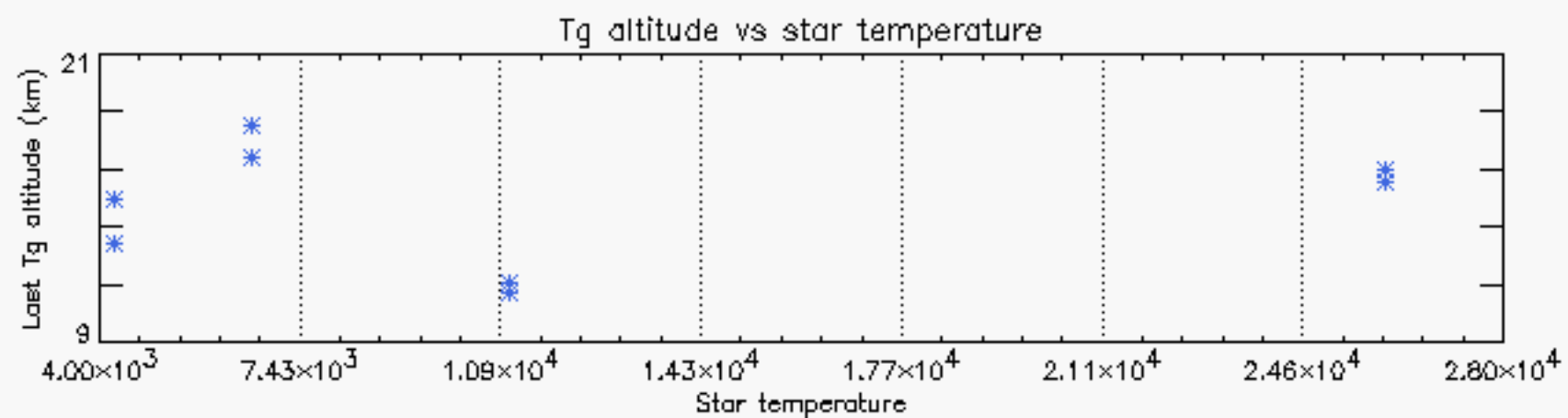
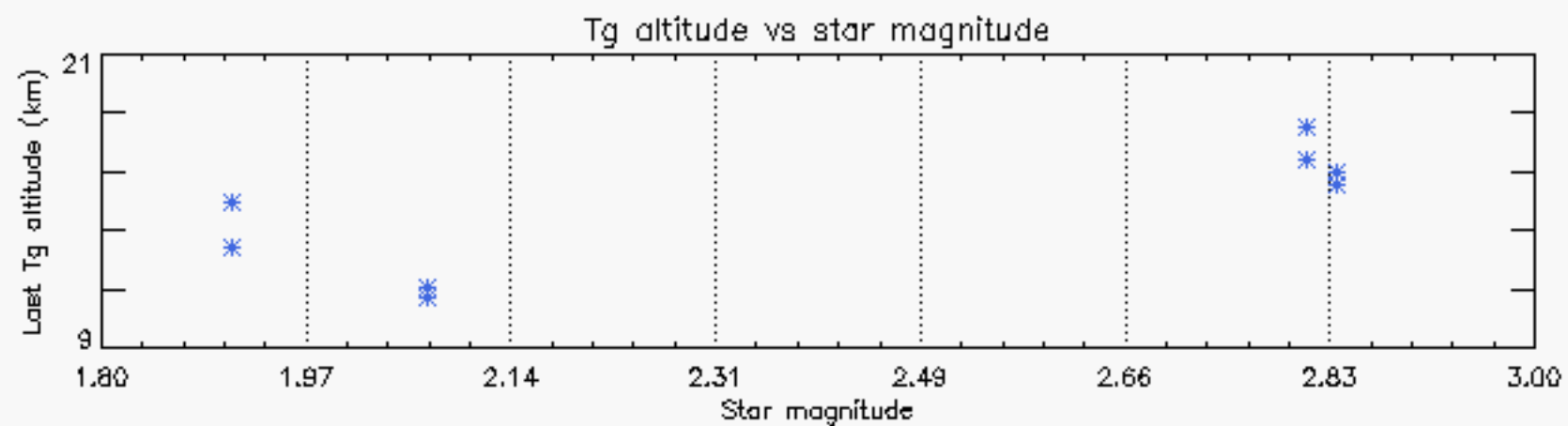
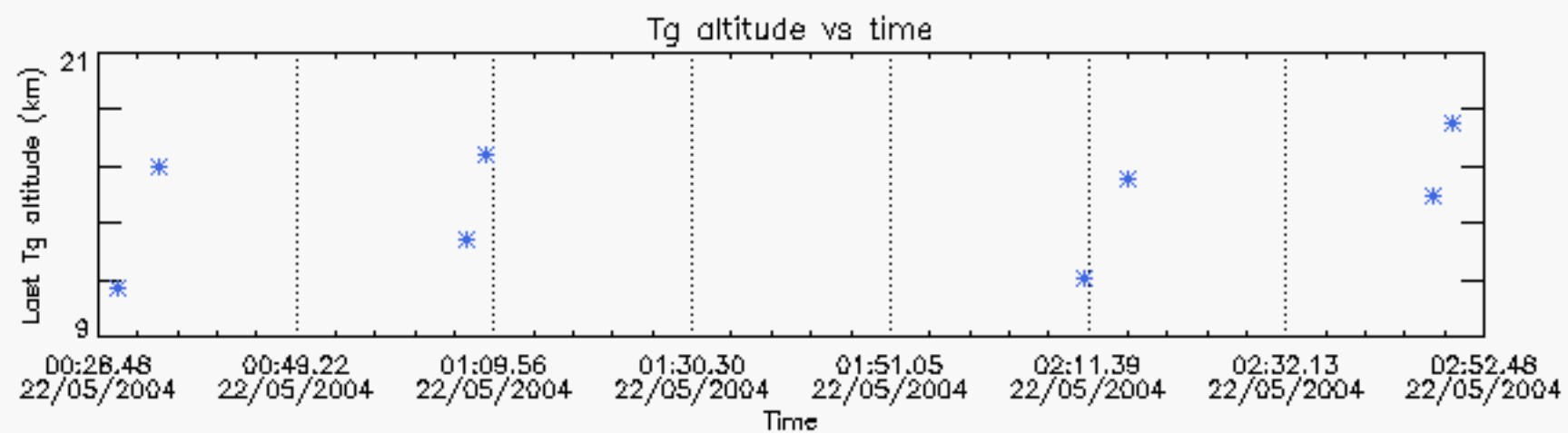
Tangent altitude at which the star is lost



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
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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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27;	11.1;	01-MAY-2004	06:57:17;	Dark	;	148;	Alp Tuc	;	2.88;	4100;occ;	102;	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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26; 220.8; 24-MAY-2004 04:57:16; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;11668
27; 410.6; 24-MAY-2004 05:00:25; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;11668
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9;-3478.1; 24-MAY-2004 15:39:48; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;11674
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23;-699.2; 24-MAY-2004 16:26:07; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;11674
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25;-238.7; 24-MAY-2004 16:33:48; Dark ; 59.5; 18; 24Alp PsA ; 1.17; 9700;occ; 119; 0;11674
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27;-5.8; 24-MAY-2004 16:37:41; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;11674
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31; 808.8; 24-MAY-2004 16:51:15; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;11675
32; 898.0; 24-MAY-2004 16:52:44; Dark ; 50.5; 4; Alp1Cen ;-0.01; 5800;occ; 101; 0;11675
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34; 1096.3; 24-MAY-2004 16:56:03; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;11675
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6;	-4199.1;	24-MAY-2004	17:08:23;	Bright	;	44.0;	120;	1Del	Oph	;	2.73;	3200;	occ;	88;	0;	11675
7;	-4016.1;	24-MAY-2004	17:11:26;	Bright	;	41.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	82;	0;	11675
8;	-3797.8;	24-MAY-2004	17:15:05;	Bright	;	37.0;	3;	16Alp	Boo	;	-0.05;	4250;	occ;	74;	0;	11675
9;	-3668.5;	24-MAY-2004	17:17:14;	Bright	;	37.5;	83;			;	2.38;	11000;	occ;	75;	0;	11675
10;	-3478.4;	24-MAY-2004	17:20:24;	Bright	;	37.5;	180;	27Gam	Boo	;	3.04;	8000;	occ;	75;	0;	11675
11;	-3285.7;	24-MAY-2004	17:23:37;	Bright	;	38.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	76;	0;	11675
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13;	-3103.3;	24-MAY-2004	17:26:39;	Bright	;	39.0;	87;	64Gam	UMa	;	2.43;	11000;	occ;	78;	0;	11675
14;	-3000.8;	24-MAY-2004	17:28:22;	Bright	;	41.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	82;	0;	11675
15;	-2867.3;	24-MAY-2004	17:30:35;	Bright	;	38.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	77;	0;	11675
16;	-2591.9;	24-MAY-2004	17:35:10;	Bright	;	39.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	78;	0;	11675
17;	-2352.5;	24-MAY-2004	17:39:10;	Bright	;	48.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	97;	0;	11675
18;	-2101.9;	24-MAY-2004	17:43:20;	Bright	;	37.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	74;	0;	11675
19;	-2030.6;	24-MAY-2004	17:44:32;	Bright	;	45.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	90;	0;	11675
20;	-1654.0;	24-MAY-2004	17:50:48;	Bright	;	40.5;	53;	43Bet	And	;	2.05;	3300;	occ;	81;	0;	11675
21;	-1500.3;	24-MAY-2004	17:53:22;	Dark	;	50.5;	58;	21Alp	And	;	2.07;	11000;	occ;	101;	0;	11675
22;	-1229.7;	24-MAY-2004	17:57:53;	Dark	;	47.0;	140;	88Gam	Peg	;	2.83;	26000;	occ;	94;	0;	11675
23;	-1088.8;	24-MAY-2004	18:00:14;	Dark	;	70.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	141;	0;	11675
24;	-698.7;	24-MAY-2004	18:06:44;	Dark	;	49.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	98;	0;	11675
25;	-423.7;	24-MAY-2004	18:11:19;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	11675
26;	-127.8;	24-MAY-2004	18:16:15;	Dark	;	43.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	86;	0;	11675
27;	-5.0;	24-MAY-2004	18:18:17;	Dark	;	48.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	96;	0;	11675
28;	221.6;	24-MAY-2004	18:22:04;	Dark	;	39.0;	135;	Bet	Hyi	;	2.82;	5800;	occ;	78;	0;	11676
29;	417.9;	24-MAY-2004	18:25:20;	Dark	;	43.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	87;	0;	11676
30;	682.5;	24-MAY-2004	18:29:45;	Dark	;	39.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	78;	0;	11676
31;	809.5;	24-MAY-2004	18:31:52;	Dark	;	38.0;	134;	Bet	TrA	;	2.81;	6600;	occ;	76;	0;	11676
32;	898.3;	24-MAY-2004	18:33:21;	Dark	;	50.0;	4;	Alp1Cen		;	-0.01;	5800;	occ;	100;	0;	11676
33;	986.8;	24-MAY-2004	18:34:49;	Dark	;	51.0;	40;	The	Sco	;	1.86;	7100;	occ;	102;	0;	11676

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2;	-4938.9;	24-MAY-2004	18:36:39;	Dark	;	51.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	103;	0;	11676
3;	-4819.9;	24-MAY-2004	18:38:38;	Dark	;	56.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	112;	0;	11676
4;	-4650.6;	24-MAY-2004	18:41:28;	Dark	;	59.0;	16;	21Alp	Sco	;	1.02;	3000;	occ;	118;	0;	11676
5;	-4557.5;	24-MAY-2004	18:43:01;	Bright	;	42.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	85;	0;	11676
6;	-4456.2;	24-MAY-2004	18:44:42;	Bright	;	53.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	106;	0;	11676
7;	-4301.0;	24-MAY-2004	18:47:17;	Bright	;	39.0;	104;	27Bet	Lib	;	2.61;	13100;	occ;	78;	0;	11676
8;	-4199.1;	24-MAY-2004	18:48:59;	Bright	;	44.0;	120;	1Del	Oph	;	2.73;	3200;	occ;	88;	0;	11676
9;	-4015.4;	24-MAY-2004	18:52:03;	Bright	;	40.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	80;	0;	11676
10;	-3797.0;	24-MAY-2004	18:55:41;	Bright	;	36.5;	3;	16Alp	Boo	;	-0.05;	4250;	occ;	73;	0;	11676
11;	-3668.2;	24-MAY-2004	18:57:50;	Bright	;	40.0;	83;			;	2.38;	11000;	occ;	80;	0;	11676
12;	-3477.5;	24-MAY-2004	19:01:01;	Bright	;	35.0;	180;	27Gam	Boo	;	3.04;	8000;	occ;	70;	0;	11676
13;	-3284.9;	24-MAY-2004	19:04:13;	Bright	;	36.5;	39;	85Eta	UMa	;	1.85;	24000;	occ;	73;	0;	11676
14;	-3181.8;	24-MAY-2004	19:05:57;	Bright	;	37.0;	55;	79Zet	UMa	;	2.06;	10200;	occ;	74;	0;	11676
15;	-3102.9;	24-MAY-2004	19:07:15;	Bright	;	39.0;	87;	64Gam	UMa	;	2.43;	11000;	occ;	78;	0;	11676
16;	-3000.2;	24-MAY-2004	19:08:58;	Bright	;	41.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	83;	0;	11676
17;	-2866.6;	24-MAY-2004	19:11:12;	Bright	;	38.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	76;	0;	11676
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