

GOMOS Daily Report 19-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 03:41:59
Data source version	GOMOS/4.02
Start time of products	19-MAY-2004 (19MAY2004 00:00:00)
Stop time of products	20-MAY-2004 (20MAY2004 00:00:00)

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

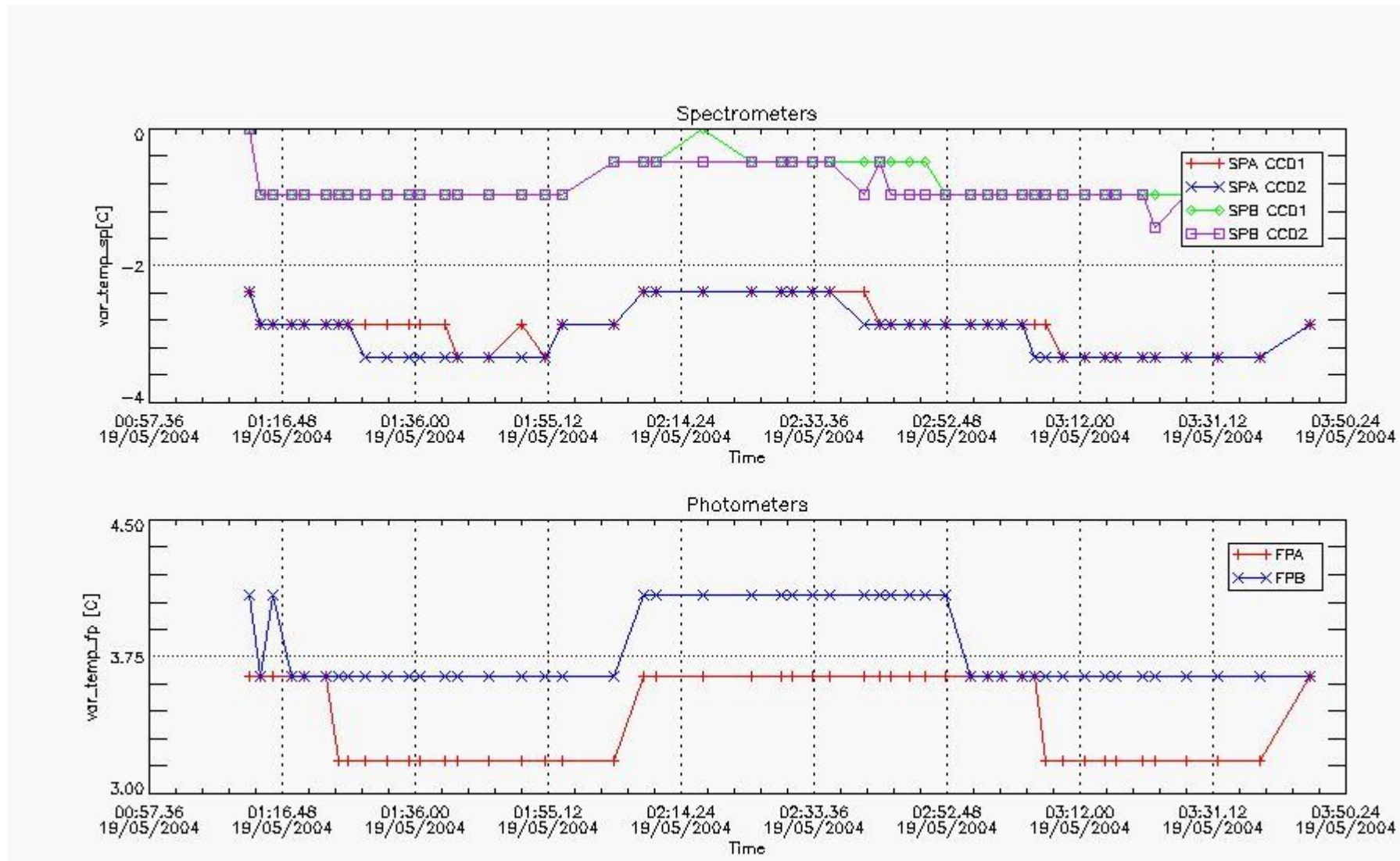
2. Summary of products arrived in PCF

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_1PNPDE20040519_011157_000000612027_00017_11594_0000.N1	19-MAY-2004 01:11:57	Bright	61.000	16	21Alp Sco	1.0200	3000.0	122	11594	Yes
GOM_TRA_1PNPDE20040519_011337_000000452027_00017_11594_0001.N1	19-MAY-2004 01:13:37	Bright	45.000	80	7Del Sco	2.3160	30000.	90	11594	No
GOM_TRA_1PNPDE20040519_011528_000000582027_00017_11594_0002.N1	19-MAY-2004 01:15:28	Bright	58.000	86	35Eta Oph	2.4300	10200.	116	11594	No
GOM_TRA_1PNPDE20040519_011803_000000402027_00017_11594_0003.N1	19-MAY-2004 01:18:03	Bright	40.000	104	27Bet Lib	2.6140	13100.	80	11594	No
GOM_TRA_1PNPDE20040519_012001_000000502027_00017_11594_0004.N1	19-MAY-2004 01:20:01	Bright	49.500	120	1Del Oph	2.7340	3200.0	99	11594	No
GOM_TRA_1PNPDE20040519_012309_000000432027_00017_11594_0005.N1	19-MAY-2004 01:23:09	Bright	43.000	102	24Alp Ser	2.6000	4250.0	86	11594	No
GOM_TRA_1PNPDE20040519_012455_000000392027_00017_11594_0006.N1	19-MAY-2004 01:24:55	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	11594	No
GOM_TRA_1PNPDE20040519_012620_000000362027_00017_11594_0007.N1	19-MAY-2004 01:26:20	Bright	36.000	111	8Eta Boo	2.6800	6000.0	72	11594	No
GOM_TRA_1PNPDE20040519_012849_000000412027_00017_11594_0008.N1	19-MAY-2004 01:28:49	Bright	40.500	83		2.3780	11000.	81	11594	No
GOM_TRA_1PNPDE20040519_013158_000000382027_00017_11594_0009.N1	19-MAY-2004 01:31:58	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	11594	No
GOM_TRA_1PNPDE20040519_013459_000000382027_00017_11594_0010.N1	19-MAY-2004 01:34:59	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	11594	No
GOM_TRA_1PNPDE20040519_013639_000000342027_00017_11594_0011.N1	19-MAY-2004 01:36:39	Bright	34.000	55	79Zet UMa	2.0600	10200.	68	11594	No
GOM_TRA_1PNPDE20040519_014024_000000432027_00017_11594_0012.N1	19-MAY-2004 01:40:24	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	11594	No
GOM_TRA_1PNPDE20040519_014211_000000362027_00017_11594_0013.N1	19-MAY-2004 01:42:11	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	11594	No
GOM_TRA_1PNPDE20040519_014640_000000382027_00017_11594_0014.N1	19-MAY-2004 01:46:40	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	11594	No
GOM_TRA_1PNPDE20040519_015120_000000472027_00017_11594_0015.N1	19-MAY-2004 01:51:20	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	11594	No
GOM_TRA_1PNPDE20040519_015451_000000372027_00017_11594_0016.N1	19-MAY-2004 01:54:51	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	11594	No
GOM_TRA_1PNPDE20040519_015717_000001062027_00017_11594_0017.N1	19-MAY-2004 01:57:17	Bright	106.00	66	37Gam Cyg	2.2080	5900.0	212	11594	No
GOM_TRA_1PNPDE20040519_020436_000000492027_00017_11594_0018.N1	19-MAY-2004 02:04:36	Twilight	49.000	58	21Alp And	2.0730	11000.	98	11594	No
GOM_TRA_1PNPDE20040519_020853_000000472027_00017_11594_0019.N1	19-MAY-2004 02:08:53	Twilight	46.500	140	88Gam Peg	2.8340	26000.	93	11594	No
GOM_TRA_1PNPDE20040519_021044_000000592027_00017_11594_0020.N1	19-MAY-2004 02:10:44	Dark	59.000	90	54Alp Peg	2.4870	11000.	118	11594	No
GOM_TRA_1PNPDE20040519_021739_000000452027_00017_11594_0021.N1	19-MAY-2004 02:17:39	Dark	45.000	52	16Bet Cet	2.0370	4500.0	90	11594	No
GOM_TRA_1PNPDE20040519_022435_000000542027_00017_11594_0022.N1	19-MAY-2004 02:24:35	Dark	53.500	18	24Alp PsA	1.1660	9700.0	107	11594	No
GOM_TRA_1PNPDE20040519_022847_000000492027_00017_11594_0023.N1	19-MAY-2004 02:28:47	Dark	49.000	63	Bet Gru	2.1500	2800.0	98	11594	No
GOM_TRA_1PNPDE20040519_023021_000000462027_00018_11595_0024.N1	19-MAY-2004 02:30:21	Dark	45.500	31	Alp Gru	1.7340	15200.	91	11595	No
GOM_TRA_1PNPDE20040519_023324_000000392027_00018_11595_0025.N1	19-MAY-2004 02:33:24	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	11595	No
GOM_TRA_1PNPDE20040519_023551_000000442027_00018_11595_0026.N1	19-MAY-2004 02:35:51	Dark	44.000	45	Alp Pav	1.9400	26000.	88	11595	No
GOM_TRA_1PNPDE20040519_024051_000000422027_00018_11595_0027.N1	19-MAY-2004 02:40:51	Dark	42.000	43	Alp TrA	1.9100	4250.0	84	11595	No
GOM_TRA_1PNPDE20040519_024300_000000402027_00018_11595_0028.N1	19-MAY-2004 02:43:00	Twilight	40.000	134	Bet TrA	2.8100	6600.0	80	11595	No
GOM_TRA_1PNPDE20040519_024438_000000522027_00018_11595_0029.N1	19-MAY-2004 02:44:38	Twilight	52.000	4	Alp1Cen	-0.010000	5800.0	104	11595	No
GOM_TRA_1PNPDE20040519_024723_000000542027_00018_11595_0030.N1	19-MAY-2004 02:47:23	Bright	53.500	25	35Lam Sco	1.6200	28000.	107	11595	No
GOM_TRA_1PNPDE20040519_024944_000000392027_00018_11595_0031.N1	19-MAY-2004 02:49:44	Bright	39.000	81	Eta Cen	2.3560	28000.	78	11595	No
GOM_TRA_1PNPDE20040519_025234_000000602027_00018_11595_0032.N1	19-MAY-2004 02:52:34	Bright	59.500	16	21Alp Sco	1.0200	3000.0	119	11595	No
GOM_TRA_1PNPDE20040519_025604_000000602027_00018_11595_0000.N1	19-MAY-2004 02:56:04	Bright	59.500	86	35Eta Oph	2.4300	10200.	119	11595	No
GOM_TRA_1PNPDE20040519_025839_000000412027_00018_11595_0001.N1	19-MAY-2004 02:58:39	Bright	40.500	104	27Bet Lib	2.6140	13100.	81	11595	No
GOM_TRA_1PNPDE20040519_030037_000000492027_00018_11595_0002.N1	19-MAY-2004 03:00:37	Bright	48.500	120	1Del Oph	2.7340	3200.0	97	11595	No
GOM_TRA_1PNPDE20040519_030345_000000442027_00018_11595_0003.N1	19-MAY-2004 03:03:45	Bright	43.500	102	24Alp Ser	2.6000	4250.0	87	11595	No
GOM_TRA_1PNPDE20040519_030531_000000382027_00018_11595_0004.N1	19-MAY-2004 03:05:31	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	11595	No
GOM_TRA_1PNPDE20040519_030656_000000382027_00018_11595_0005.N1	19-MAY-2004 03:06:56	Bright	38.000	111	8Eta Boo	2.6800	6000.0	76	11595	No
GOM_TRA_1PNPDE20040519_030924_000000402027_00018_11595_0006.N1	19-MAY-2004 03:09:24	Bright	40.000	83		2.3780	11000.	80	11595	No
GOM_TRA_1PNPDE20040519_031234_000000382027_00018_11595_0007.N1	19-MAY-2004 03:12:34	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	11595	No
GOM_TRA_1PNPDE20040519_031535_000000372027_00018_11595_0008.N1	19-MAY-2004 03:15:35	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	11595	No
GOM_TRA_1PNPDE20040519_031714_000000382027_00018_11595_0009.N1	19-MAY-2004 03:17:14	Bright	37.500	55	79Zet UMa	2.0600	10200.	75	11595	No
GOM_TRA_1PNPDE20040519_032059_000000382027_00018_11595_0010.N1	19-MAY-2004 03:20:59	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	11595	No
GOM_TRA_1PNPDE20040519_032246_000000352027_00018_11595_0011.N1	19-MAY-2004 03:22:46	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	11595	No
GOM_TRA_1PNPDE20040519_032715_000000372027_00018_11595_0012.N1	19-MAY-2004 03:27:15	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	11595	No
GOM_TRA_1PNPDE20040519_033154_000000492027_00018_11595_0013.N1	19-MAY-2004 03:31:54	Bright	48.500	89	5Alp Cep	2.4510	8000.0	97	11595	No
GOM_TRA_1PNPDE20040519_033752_000001062027_00018_11595_0015.N1	19-MAY-2004 03:37:52	Bright	105.50	66	37Gam Cyg	2.2080	5900.0	211	11595	No
GOM_TRA_1PNPDE20040519_034511_000000472027_00018_11595_0016.N1	19-MAY-2004 03:45:11	Twilight	46.500	58	21Alp And	2.0730	11000.	93	11595	No

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



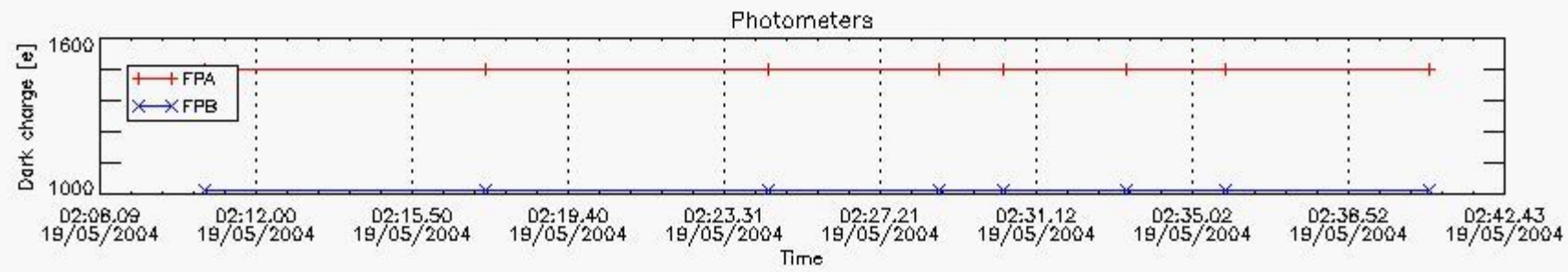
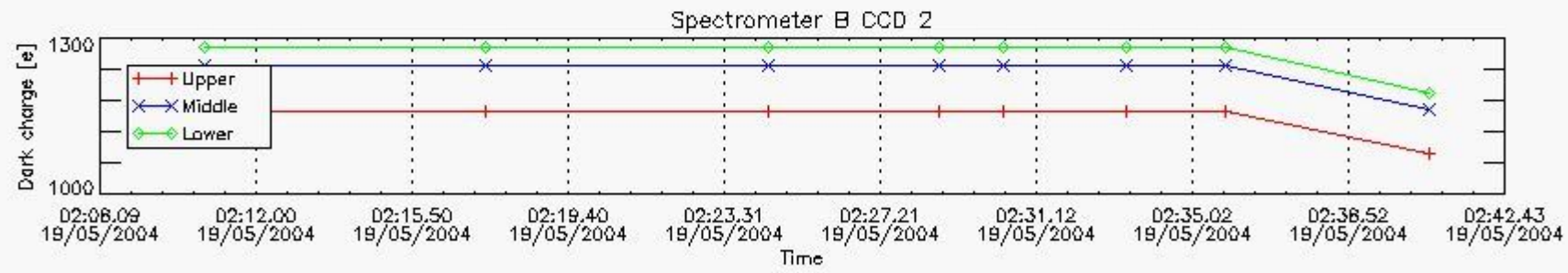
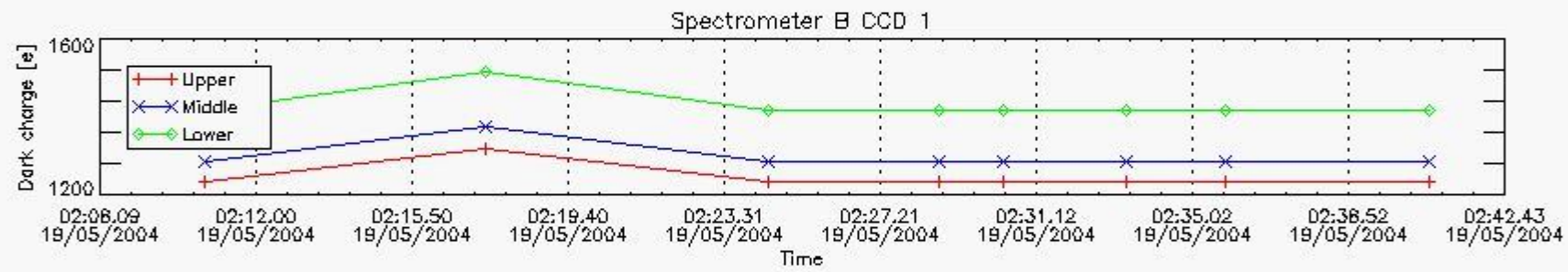
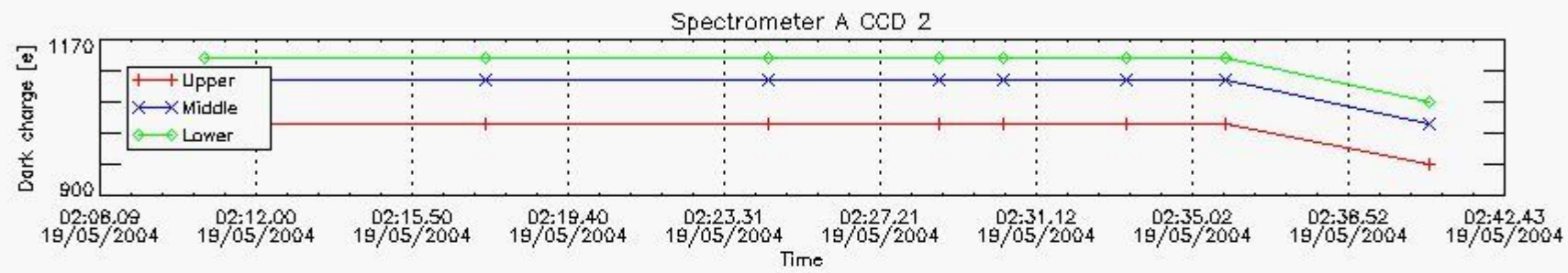
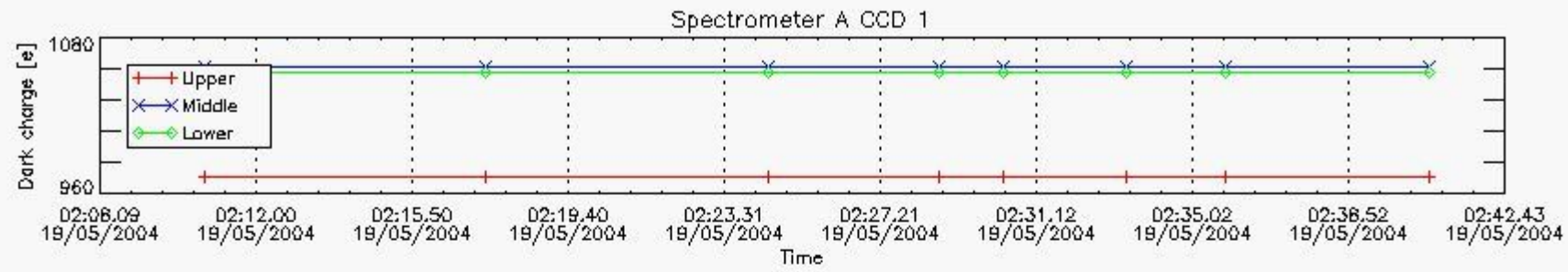
4. Overview of dark signal processing per product

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



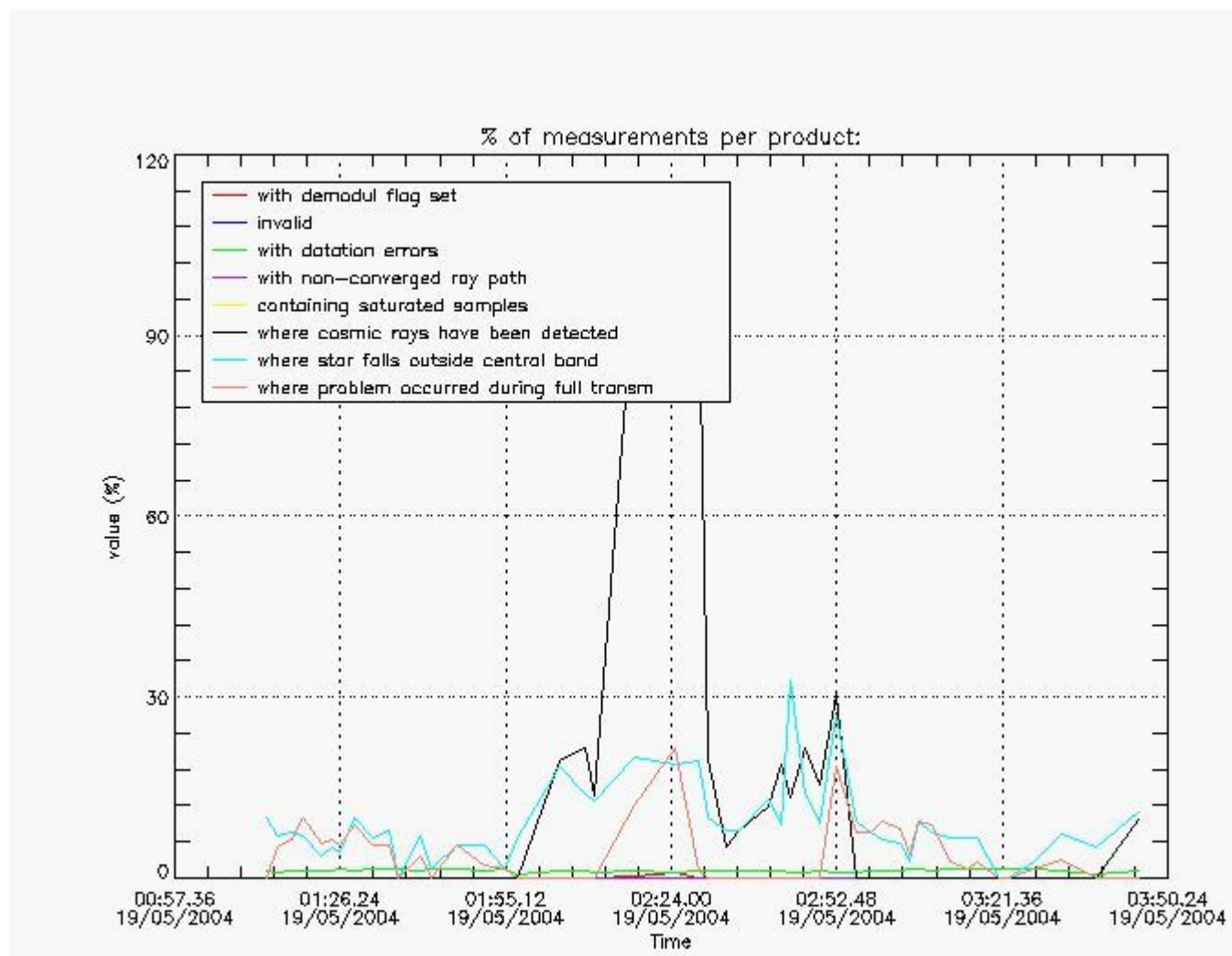
5. Demodulation flag and quality information monitoring

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:

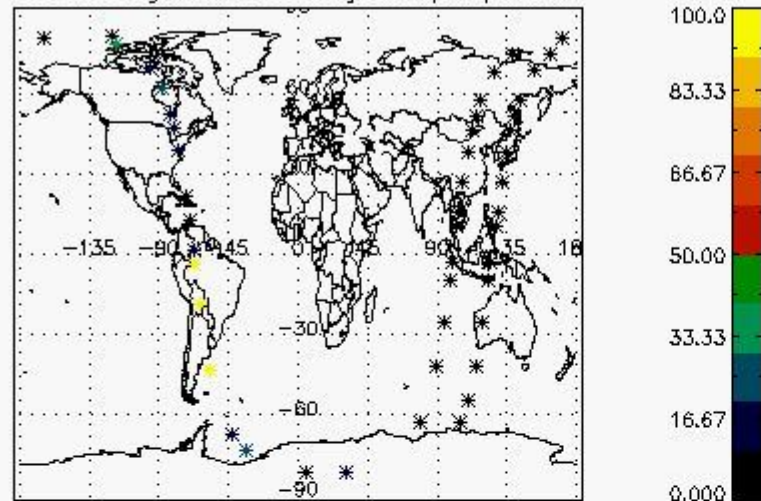
At least one measurement with demodulation flag set:	6.25000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

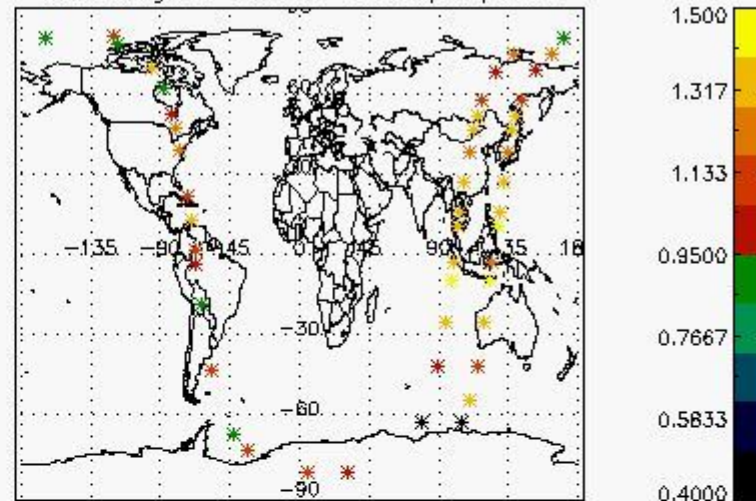


5.3 Plot quality information per product (world map)

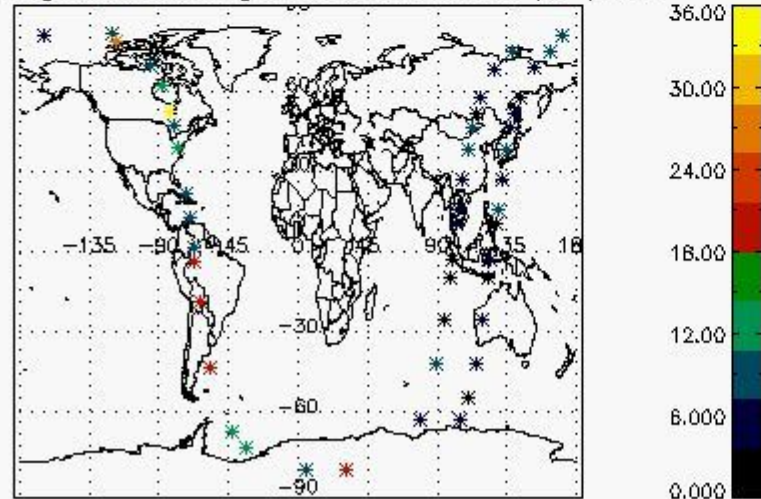
Percentage of cosmic ray hits per profile



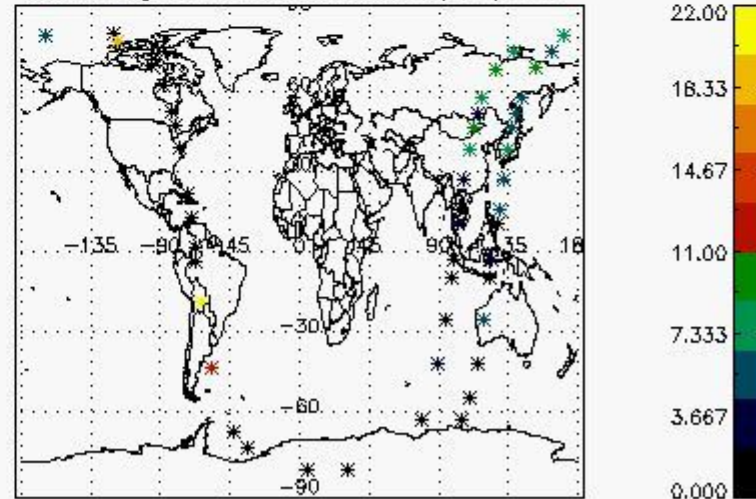
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



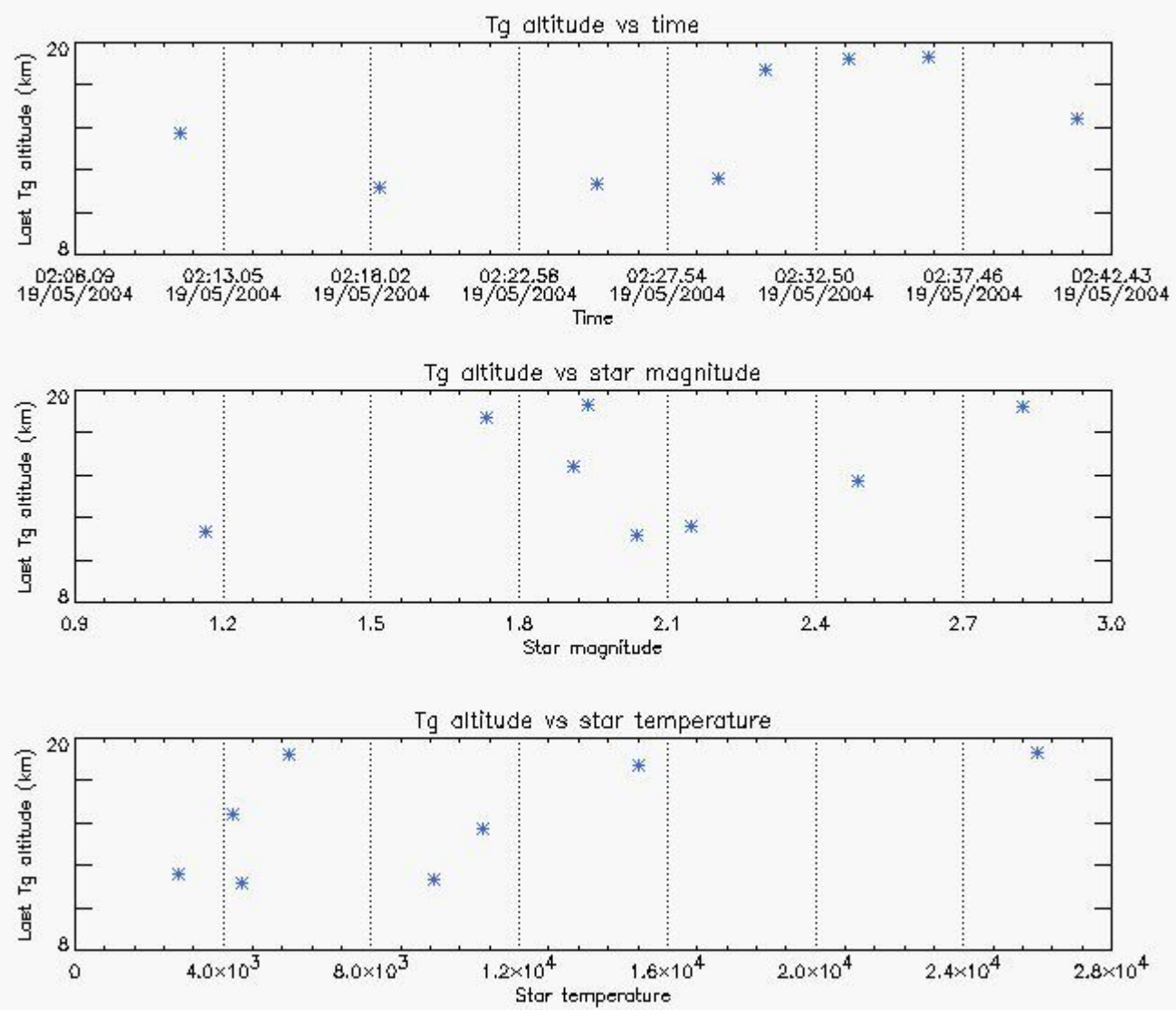
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.416	20.850	12.800
St. deviation:	3.2137	4.0143	5.3127
Maximum:	19.136	29.704	18.360
Minimum:	11.748	7.8059	4.2668
Number of data:	8.0000	35.000	5.0000

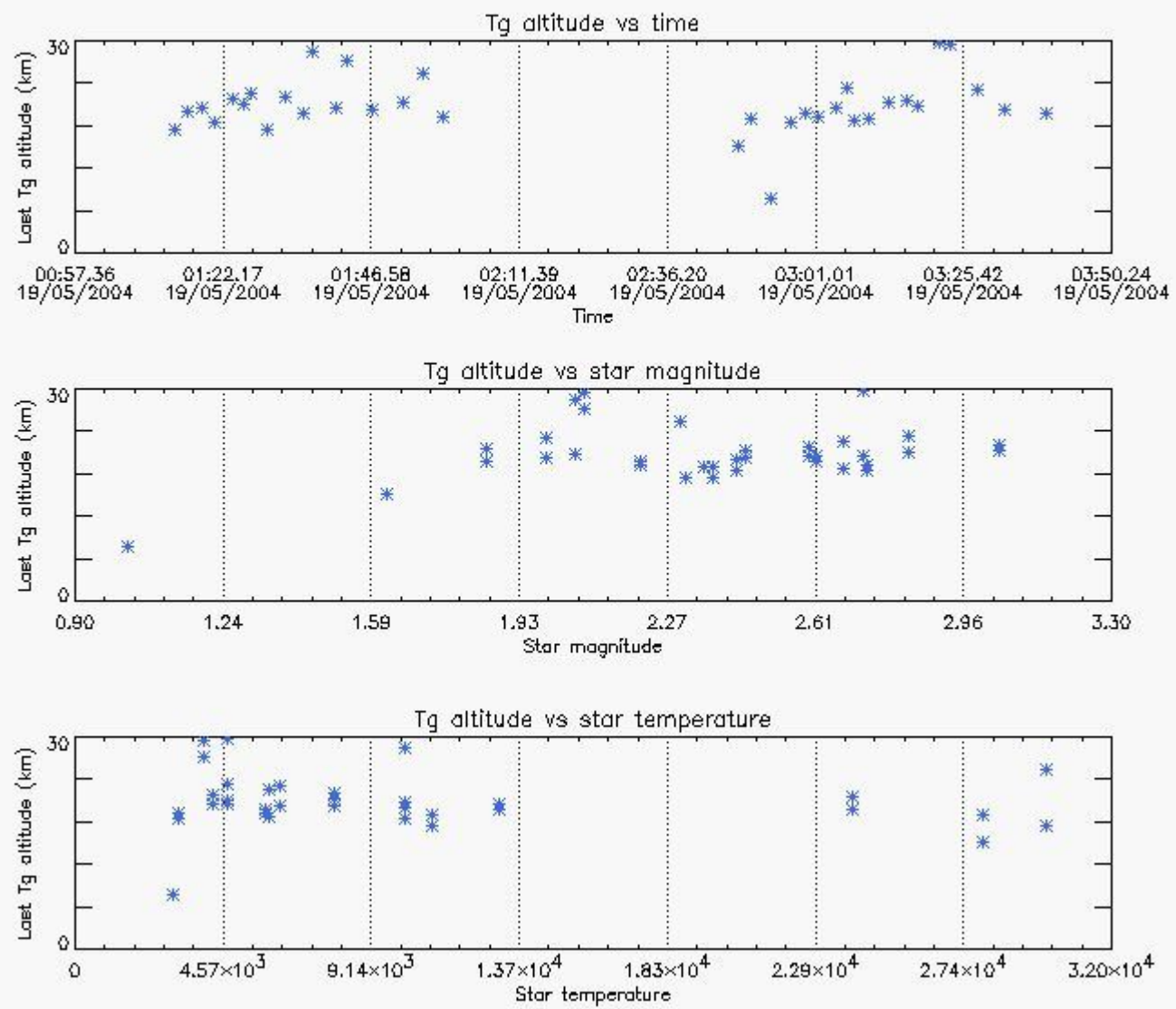
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



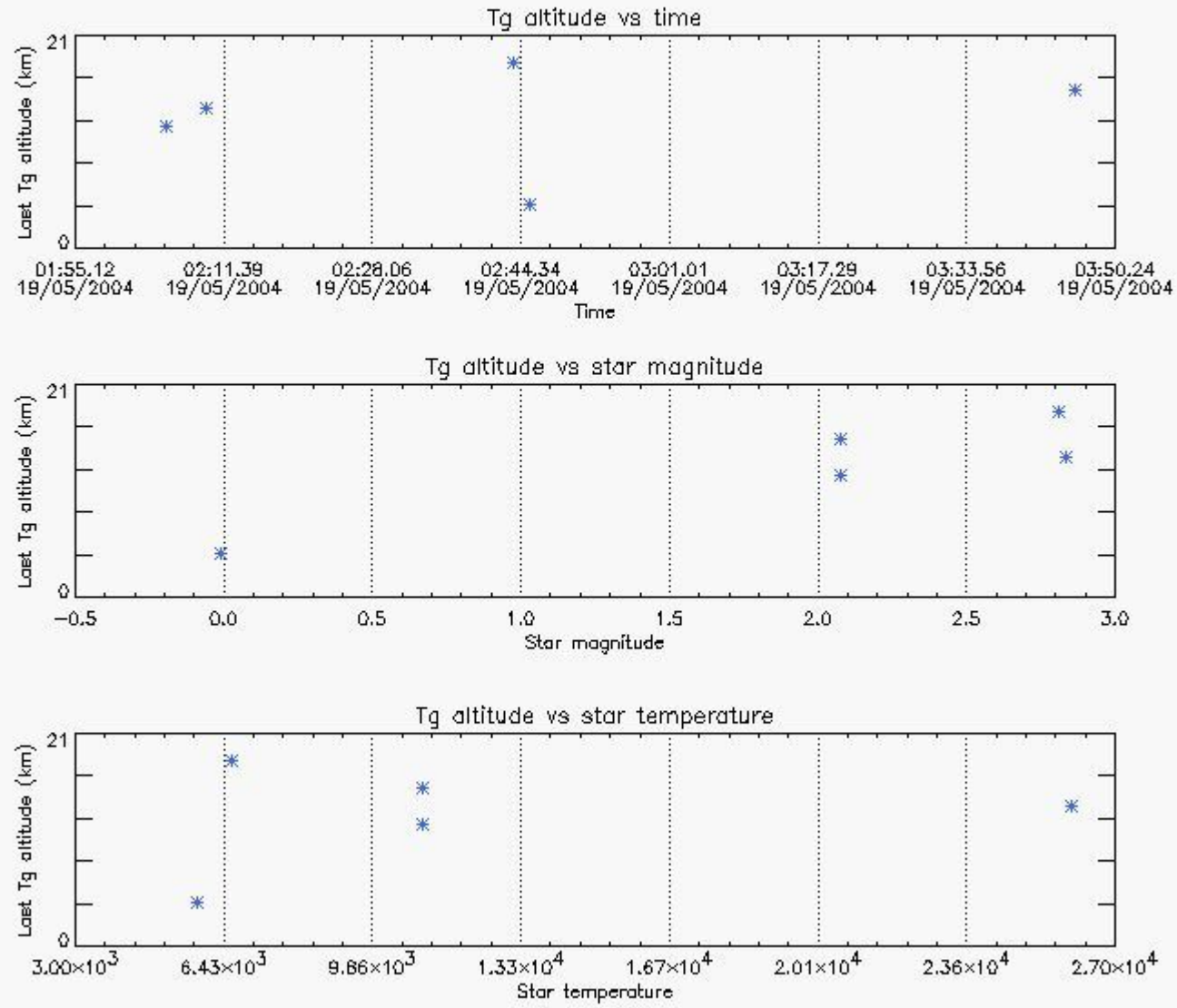
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

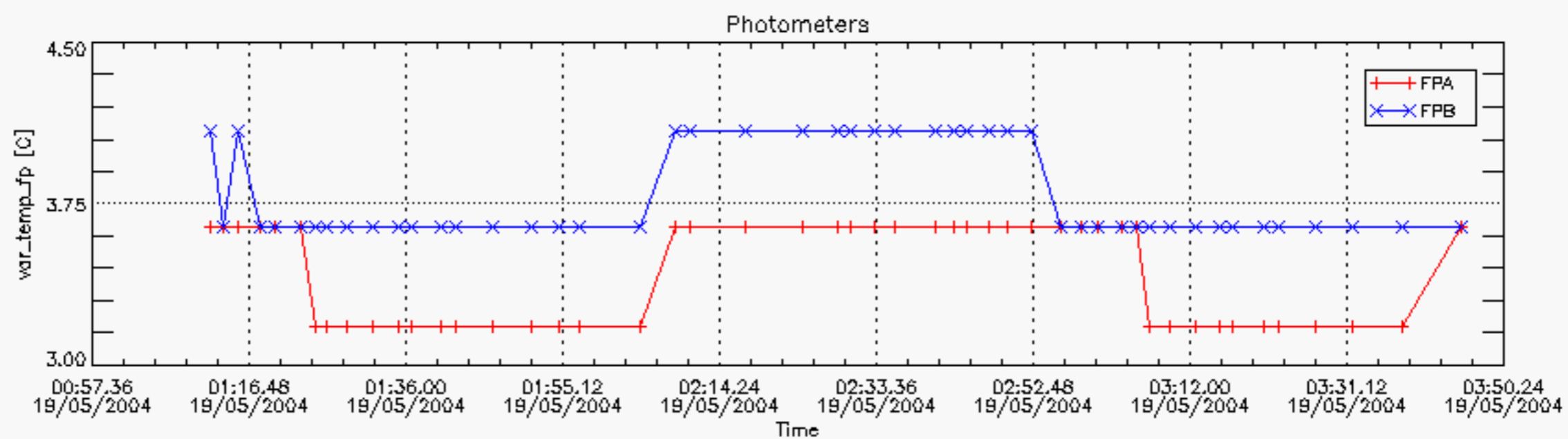
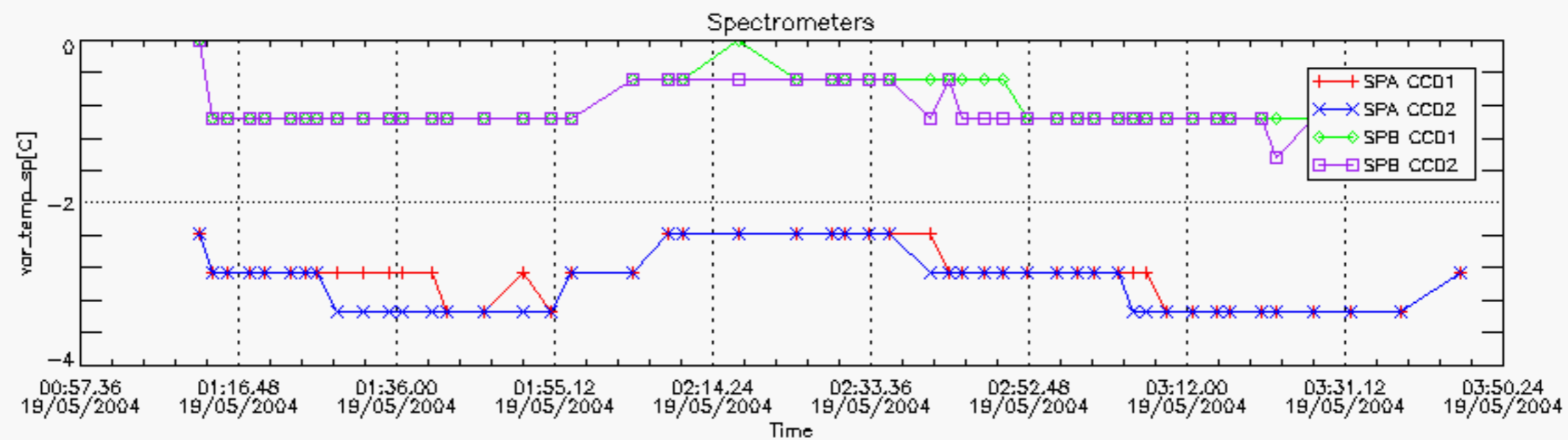
Tangent altitude at which the star is lost

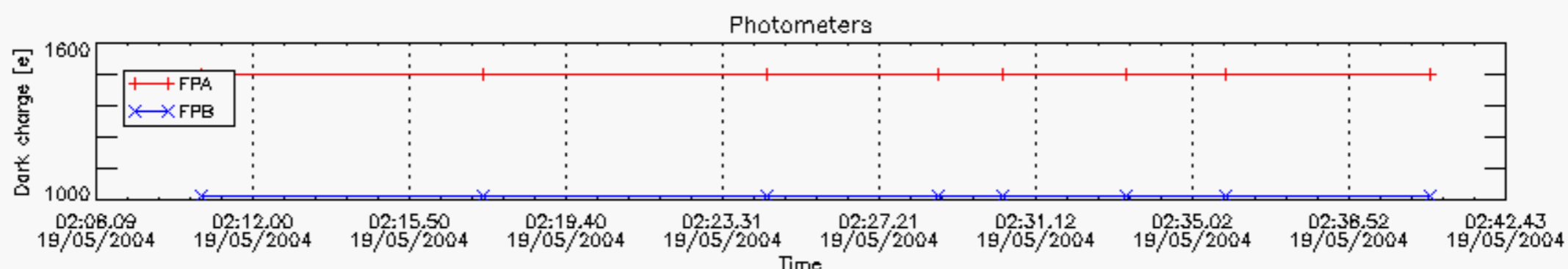
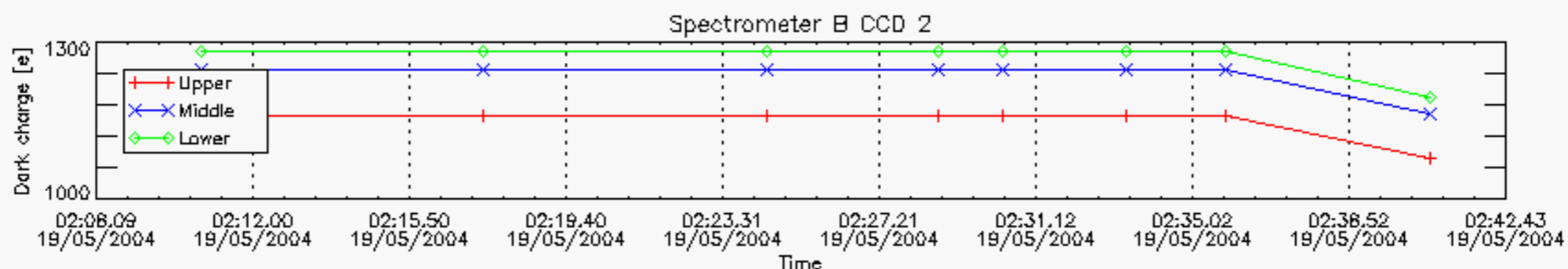
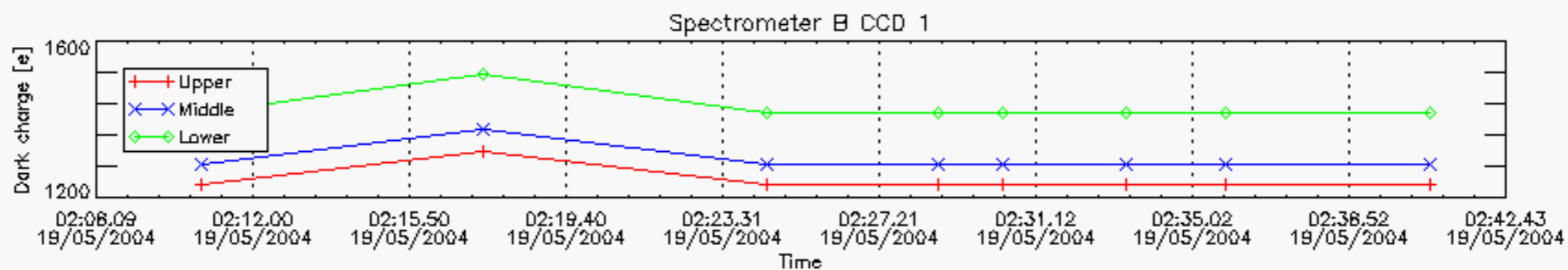
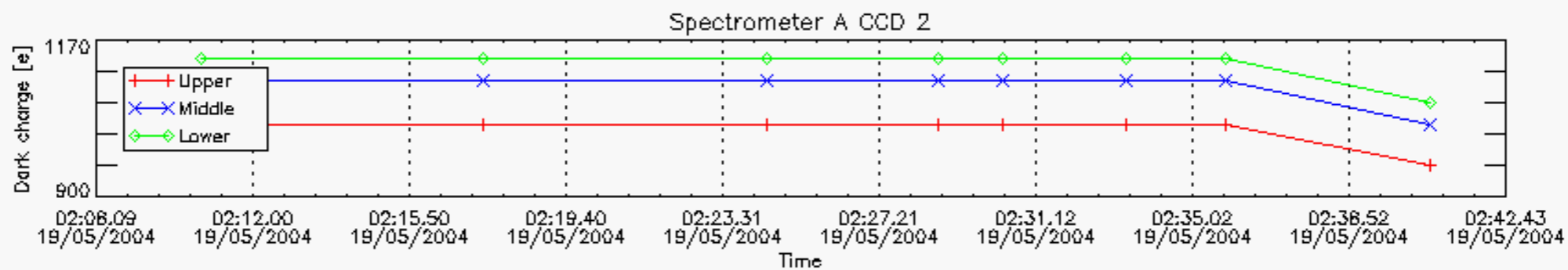
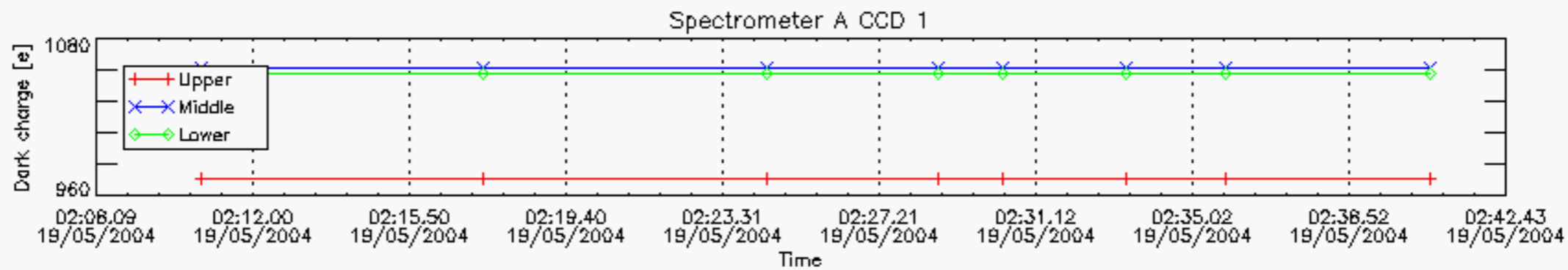


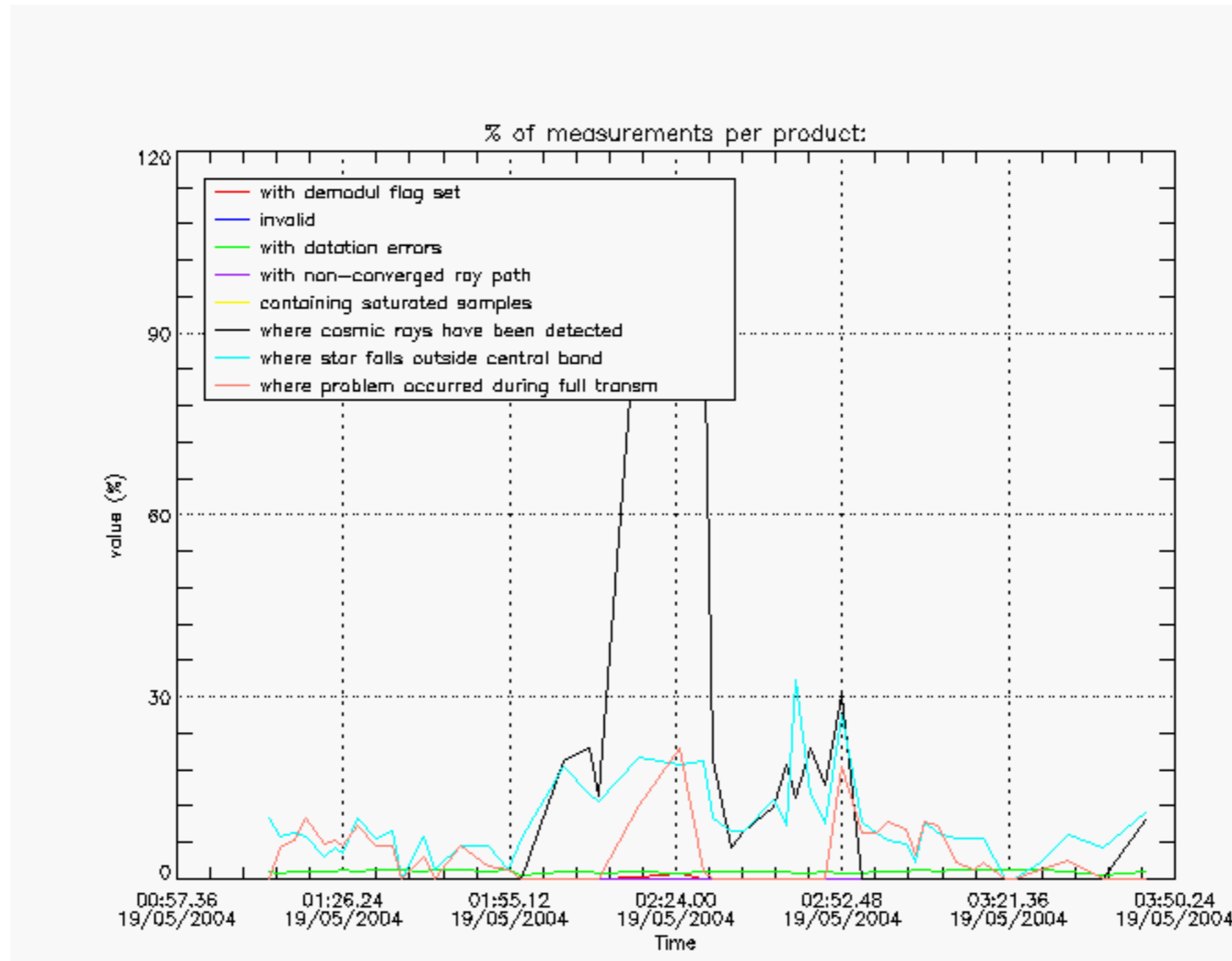
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

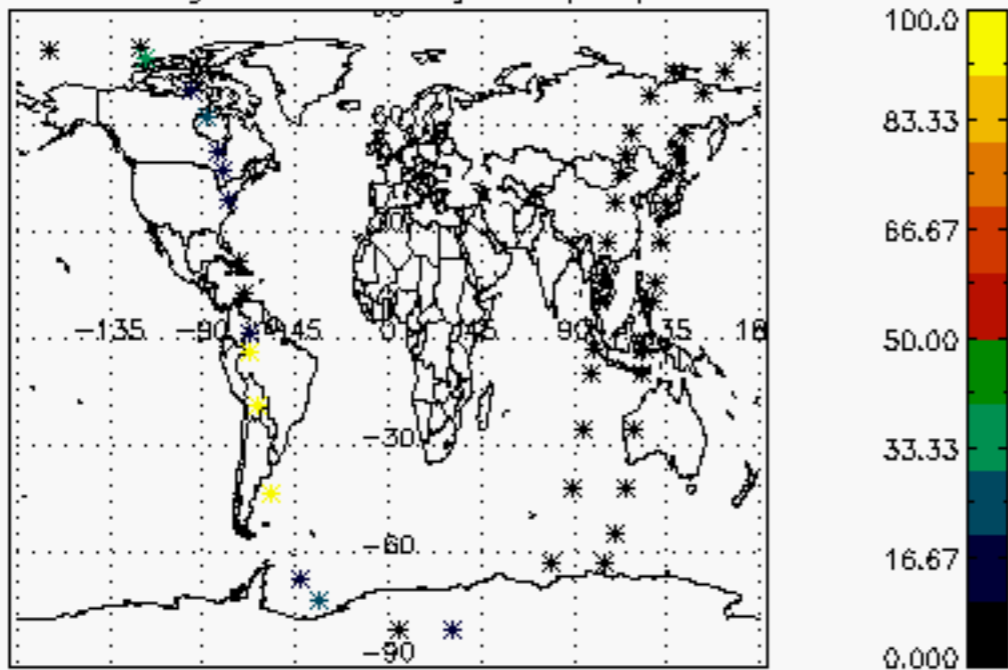
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.5	1447.9	1461.9	1447.4
St. deviation:	4.2971	5.7807	7.1289	8.1887
Maximum:	1498.0	1483.0	1509.0	1496.0
Minimum:	1451.0	1425.0	1447.0	1426.0
Number of data:	9250.0	9250.0	41300.	41300.



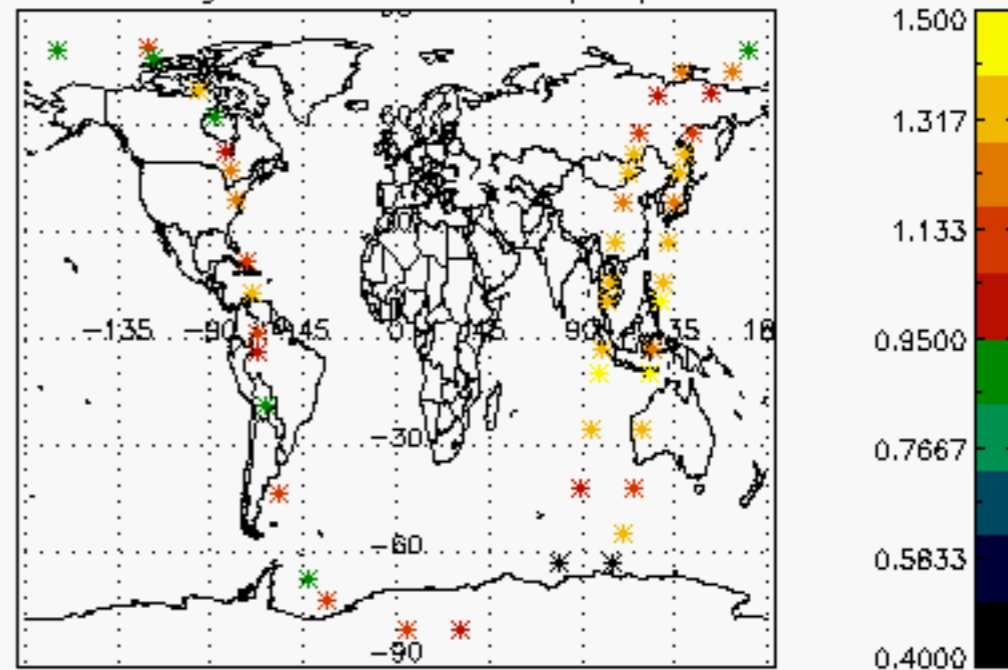




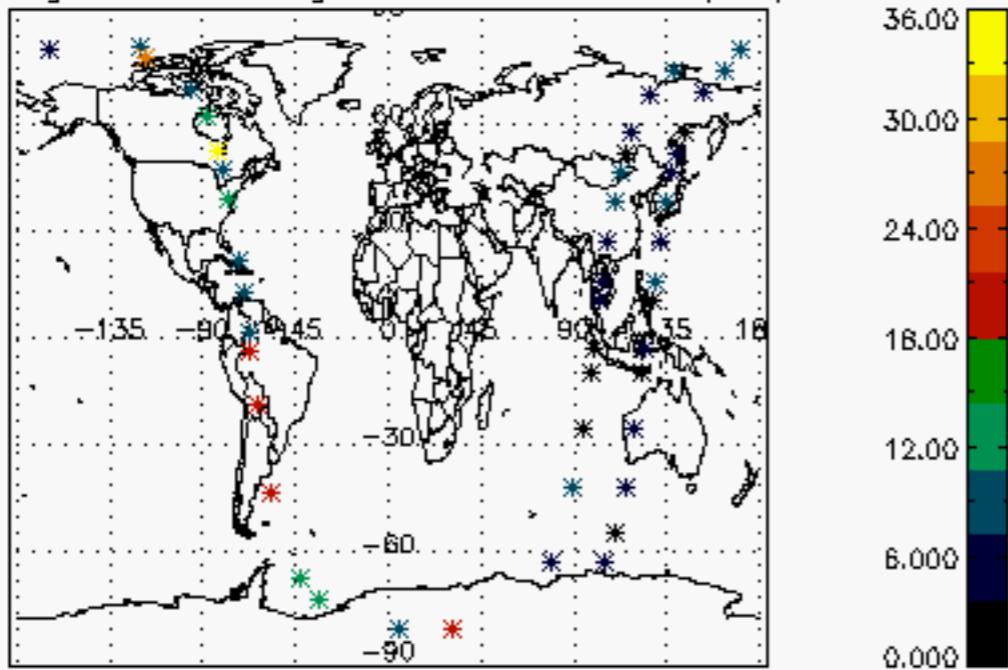
Percentage of cosmic ray hits per profile



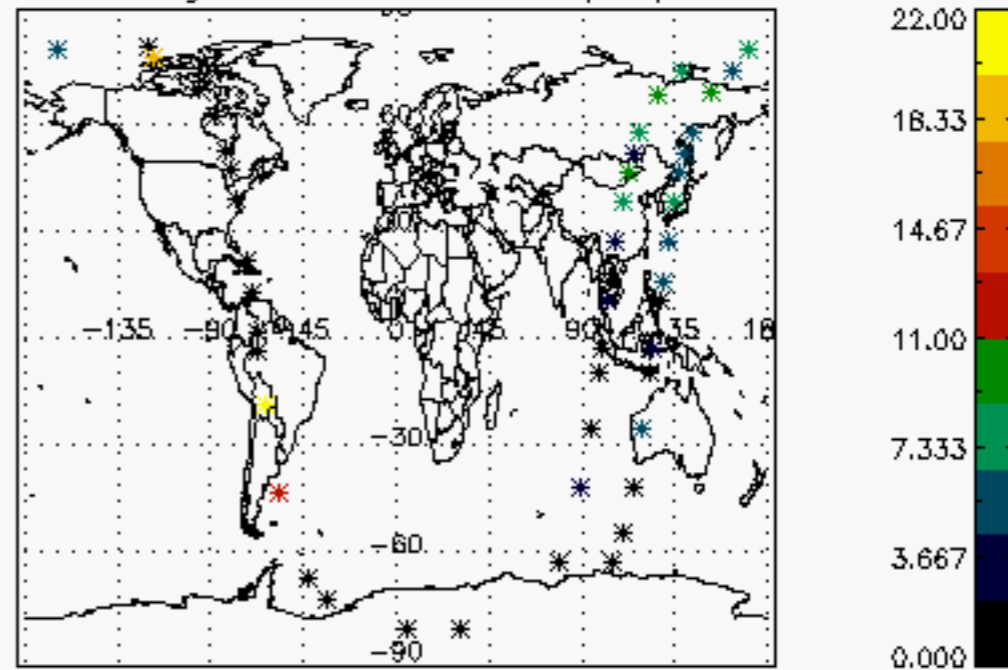
Percentage of datation errors per profile



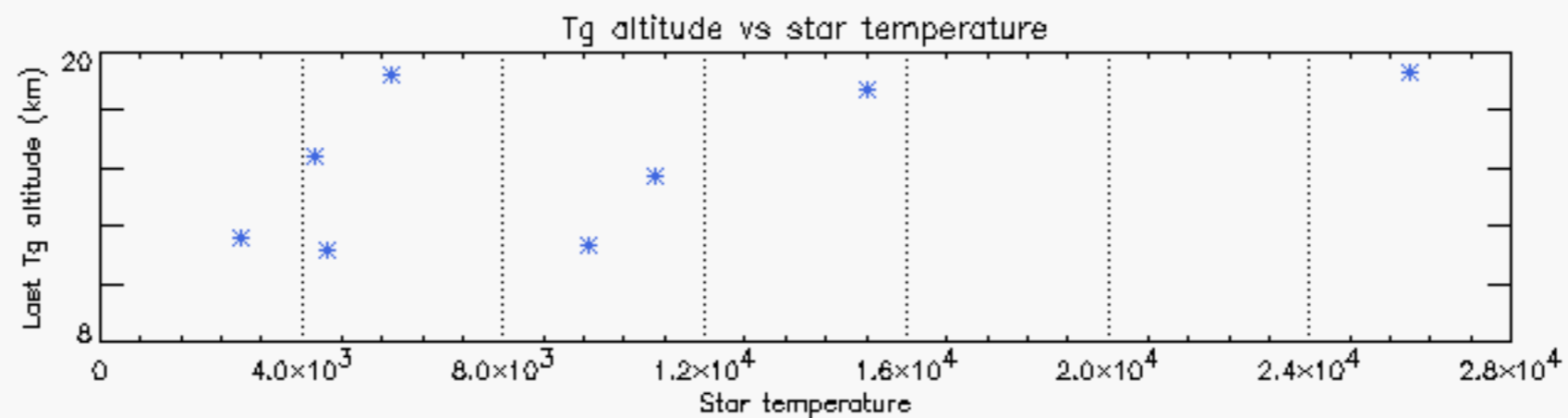
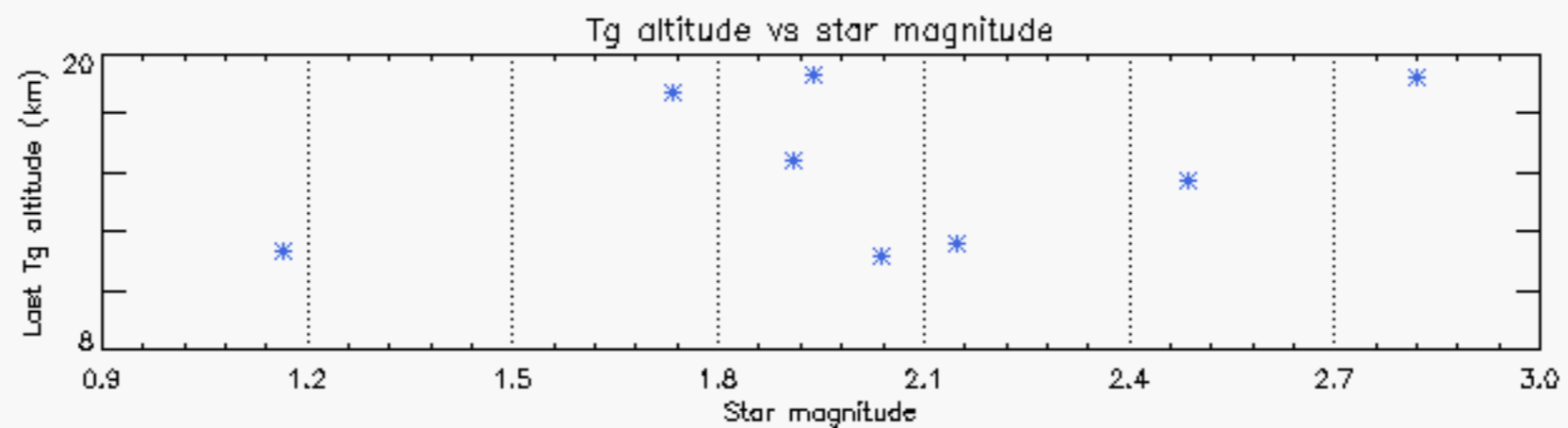
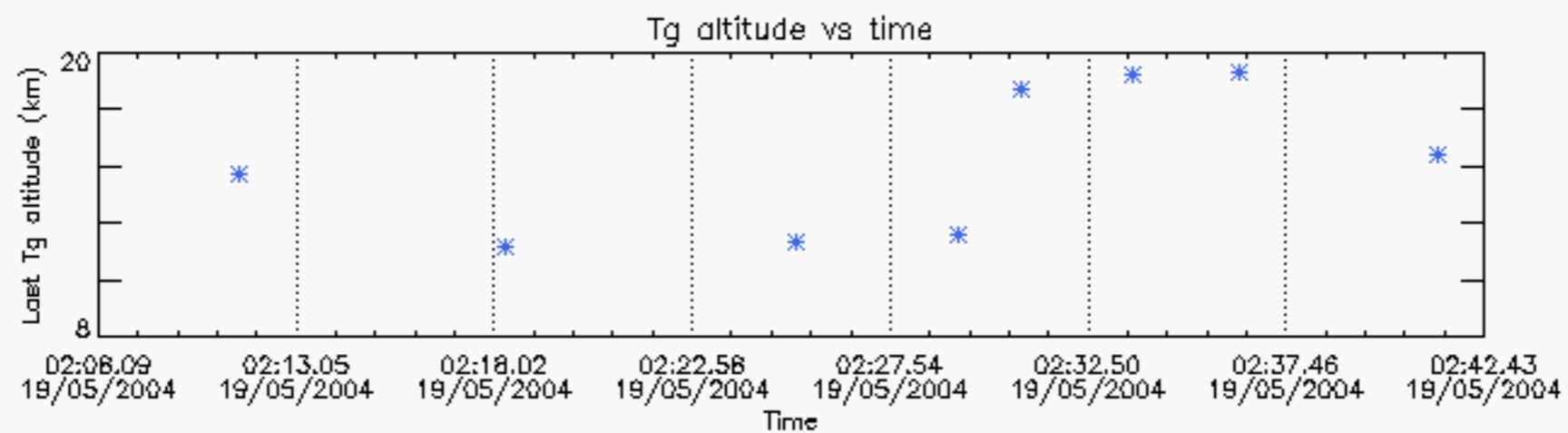
Percentage of star falling outside central band per profile



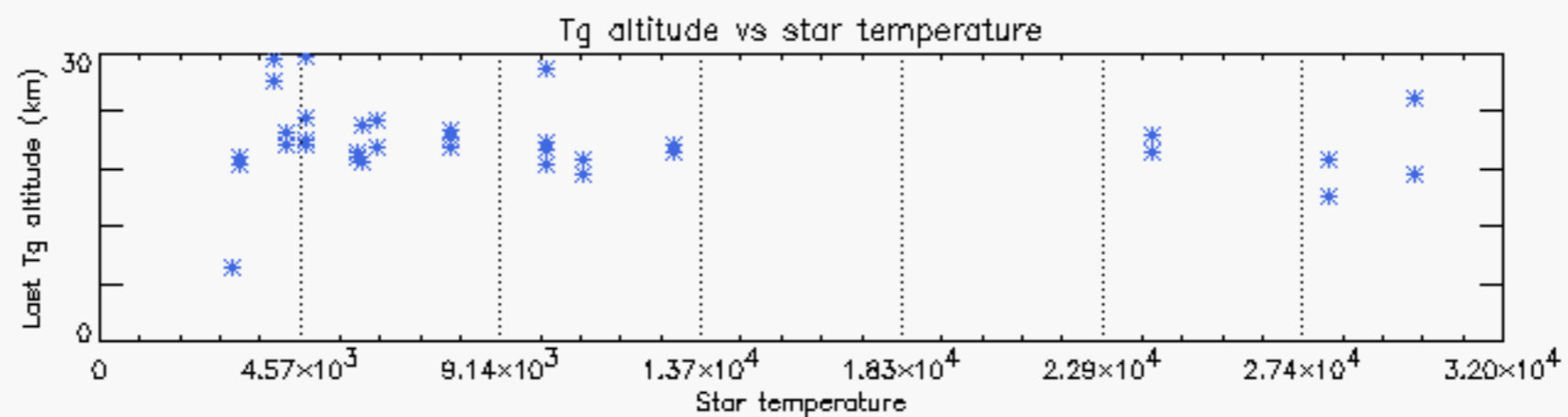
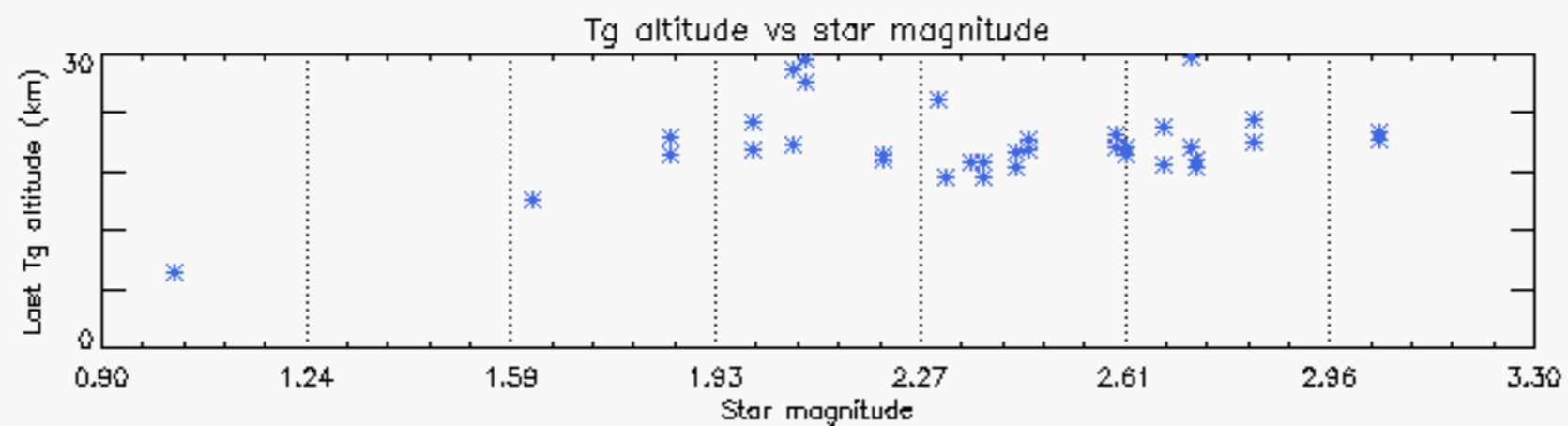
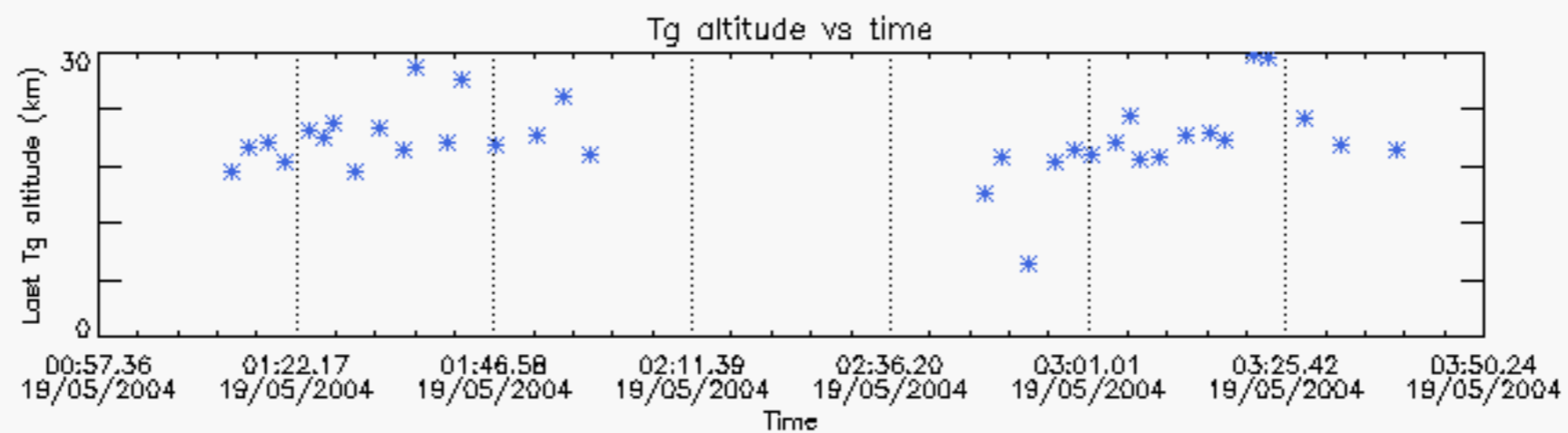
Percentage of saturation errors per profile



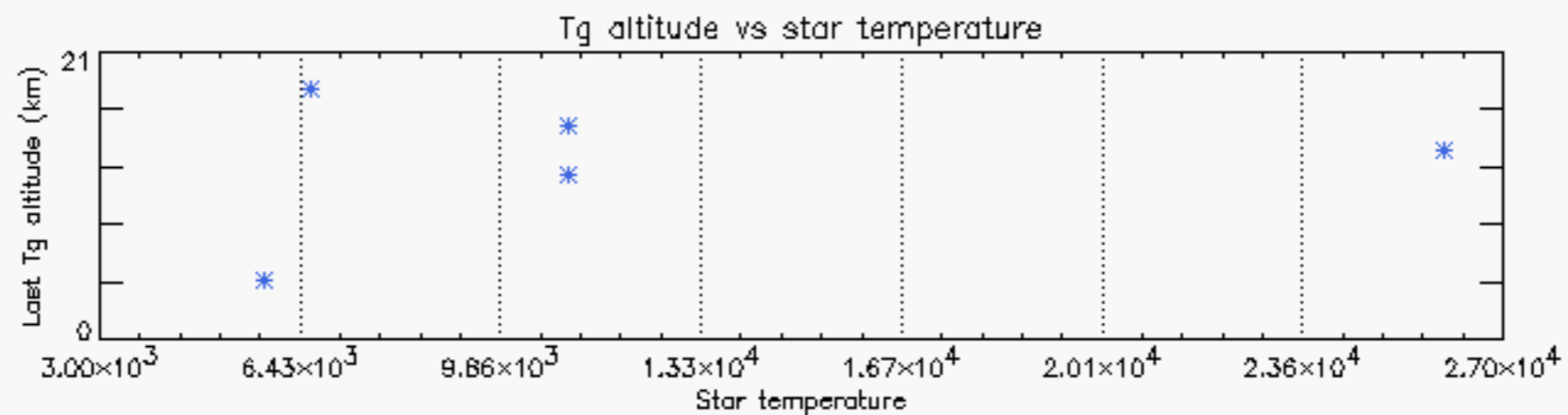
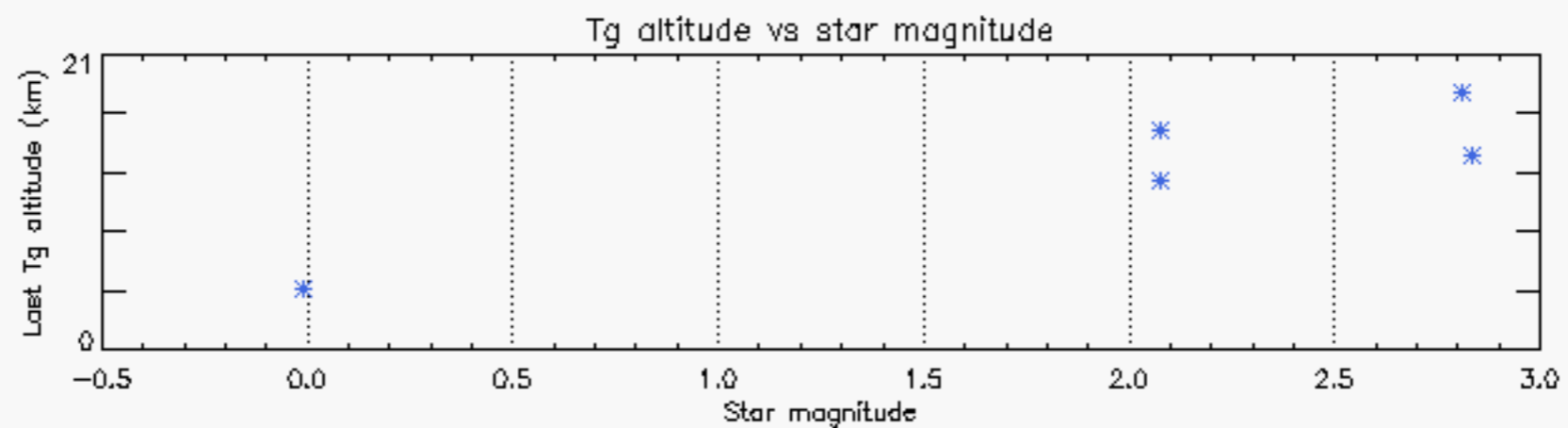
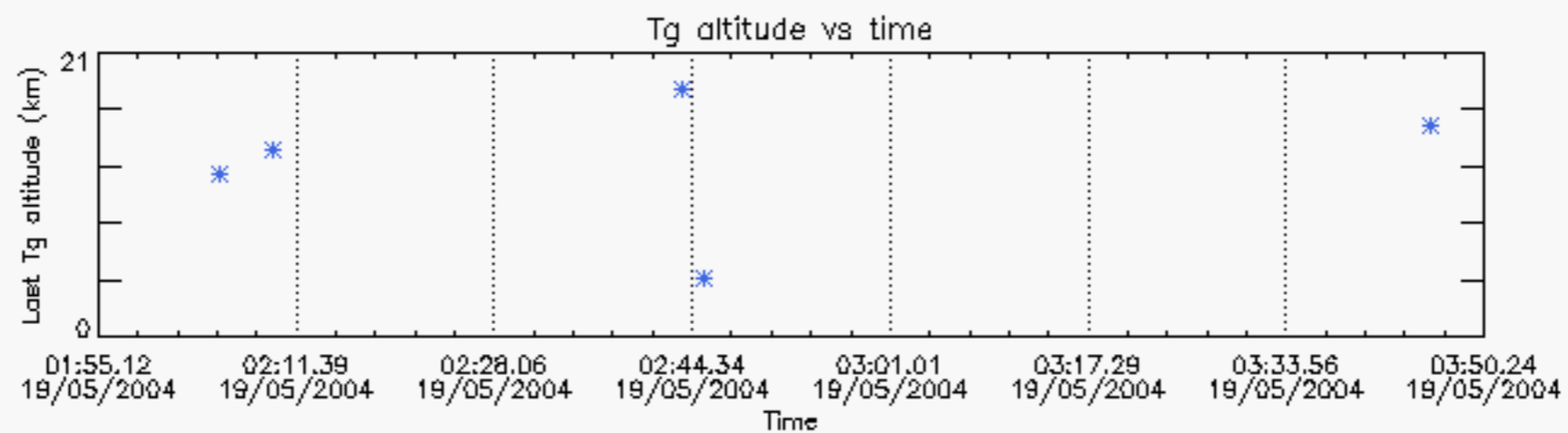
Tangent altitude at which the star is lost



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
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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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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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16;	-2116.1;	02-MAY-2004	00:48:25;	Bright;	46.0;	110;	37Del Cas	;	2.68;	8900;occ;	92;	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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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
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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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7;	-3292.0;	16-MAY-2004 09:52:13;	Bright;	;	39.0;	39;	85Eta UMa	;	1.85;	24000;	occ;	78;	0;	11556
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22;	-456.4;	16-MAY-2004	15:41:16;	Dark	;	59.5;	0;	;	0.00;	0;occ;	119;	0;	11559	
23;	-345.9;	16-MAY-2004	15:43:07;	Dark	;	52.5;	18;	24Alp PsA	;	1.17;	9700;occ;	105;	0;	11559
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26;	210.3;	16-MAY-2004	15:52:23;	Dark	;	38.5;	135;	Bet Hyi	;	2.82;	5800;occ;	77;	0;	11560
27;	335.8;	16-MAY-2004	15:54:29;	Dark	;	42.5;	45;	Alp Pav	;	1.94;	26000;occ;	85;	0;	11560
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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
28; 221.3; 24-MAY-2004 16:41:28; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;11675
29; 416.8; 24-MAY-2004 16:44:43; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11675
30; 681.8; 24-MAY-2004 16:49:08; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;11675
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
33; 986.1; 24-MAY-2004 16:54:12; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;11675
34; 1096.3; 24-MAY-2004 16:56:03; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;11675
35; 1215.4; 24-MAY-2004 16:58:02; Dark ; 54.0; 75; 26Eps Sco ; 2.29; 4250;occ; 108; 0;11675

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1;	-4803.2;	24-MAY-2004	16:58:19;	Dark	;	54.5;	75;	26Eps	Sco	;	2.29;	4250;	occ;	109;	35;	11675
2;	-4651.5;	24-MAY-2004	17:00:51;	Dark	;	59.0;	16;	21Alp	Sco	;	1.02;	3000;	occ;	118;	0;	11675
3;	-4558.3;	24-MAY-2004	17:02:24;	Bright	;	43.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	87;	0;	11675
4;	-4456.0;	24-MAY-2004	17:04:06;	Bright	;	51.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	103;	0;	11675
5;	-4301.4;	24-MAY-2004	17:06:41;	Bright	;	38.5;	104;	27Bet	Lib	;	2.61;	13100;	occ;	77;	0;	11675
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
12;	-3183.1;	24-MAY-2004	17:25:19;	Bright	;	38.5;	55;	79Zet	UMa	;	2.06;	10200;	occ;	77;	0;	11675
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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1;	-5047.7;	24-MAY-2004	18:34:51;	Dark	;	51.5;	40;	The	Sco	;	1.86;	7100;	occ;	103;	3;	11676
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
18;	-2590.8;	24-MAY-2004	19:15:48;	Bright	;	38.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	76;	0;	11676
19;	-2352.5;	24-MAY-2004	19:19:46;	Bright	;	47.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	95;	0;	11676
20;	-2101.2;	24-MAY-2004	19:23:57;	Bright	;	35.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	71;	0;	11676
21;	-2029.7;	24-MAY-2004	19:25:09;	Bright	;	40.5;	68;	18Alp	Cas	;	2.22;	4500;	occ;	81;	0;	11676
22;	-1653.5;	24-MAY-2004	19:31:25;	Bright	;	40.5;	53;	43Bet	And	;	2.05;	3300;	occ;	81;	0;	11676
23;	-1500.2;	24-MAY-2004	19:33:58;	Dark	;	51.0;	58;	21Alp	And	;	2.07;	11000;	occ;	102;	0;	11676
24;	-1228.6;	24-MAY-2004	19:38:30;	Dark	;	48.5;	140;	88Gam	Peg	;	2.83;	26000;	occ;	97;	0;	11676
25;	-1088.1;	24-MAY-2004	19:40:50;	Dark	;	68.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	137;	0;	11676
26;	-697.8;	24-MAY-2004	19:47:20;	Dark	;	49.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	99;	0;	11676
27;	-423.4;	24-MAY-2004	19:51:55;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	11676
28;	-127.5;	24-MAY-2004	19:56:51;	Dark	;	43.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	87;	0;	11676
29;	-3.8;	24-MAY-2004	19:58:55;	Dark	;	52.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	105;	0;	11676
30;	221.4;	24-MAY-2004	20:02:40;	Dark	;	39.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	79;	0;	11677
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32;	682.5;	24-MAY-2004	20:10:21;	Dark	;	40.5;	43;	Alp	TrA	;	1.91;	4250;	occ;	81;	0;	11677
33;	809.7;	24-MAY-2004	20:12:28;	Dark	;	37.5;	134;	Bet	TrA	;	2.81;	6600;	occ;	75;	0;	11677

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6;-4557.5; 24-MAY-2004 20:23:37; Bright; 42.5; 80; 7Del Sco ; 2.32; 30000;occ; 85; 0;11677
7;-4455.3; 24-MAY-2004 20:25:19; Bright; 51.0; 86; 35Eta Oph ; 2.43; 10200;occ; 102; 0;11677
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9;-4199.1; 24-MAY-2004 20:29:35; Bright; 44.0; 120; 1Del Oph ; 2.73; 3200;occ; 88; 0;11677
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26;-1088.0; 24-MAY-2004 21:21:26; Dark ; 72.0; 90; 54Alp Peg ; 2.49; 11000;occ; 144; 0;11677
27;-697.3; 24-MAY-2004 21:27:57; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;11677
28;-423.0; 24-MAY-2004 21:32:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11677
29;-127.7; 24-MAY-2004 21:37:27; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;11677
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32; 418.9; 24-MAY-2004 21:46:33; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;11678
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34; 809.3; 24-MAY-2004 21:53:03; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11678
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8;-3284.8; 25-MAY-2004 06:48:25; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;11683
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18;-1226.5; 25-MAY-2004 07:22:43; Dark ; 48.5; 140; 88Gam Peg ; 2.83; 26000;occ; 97; 0;11683
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21;-420.9; 25-MAY-2004 07:36:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11683
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