

GOMOS Daily Report 09-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	10MAY2004 03:42:35
Data source version	GOMOS/4.02
Start time of products	09-MAY-2004 (09MAY2004 00:00:00)
Stop time of products	10-MAY-2004 (10MAY2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

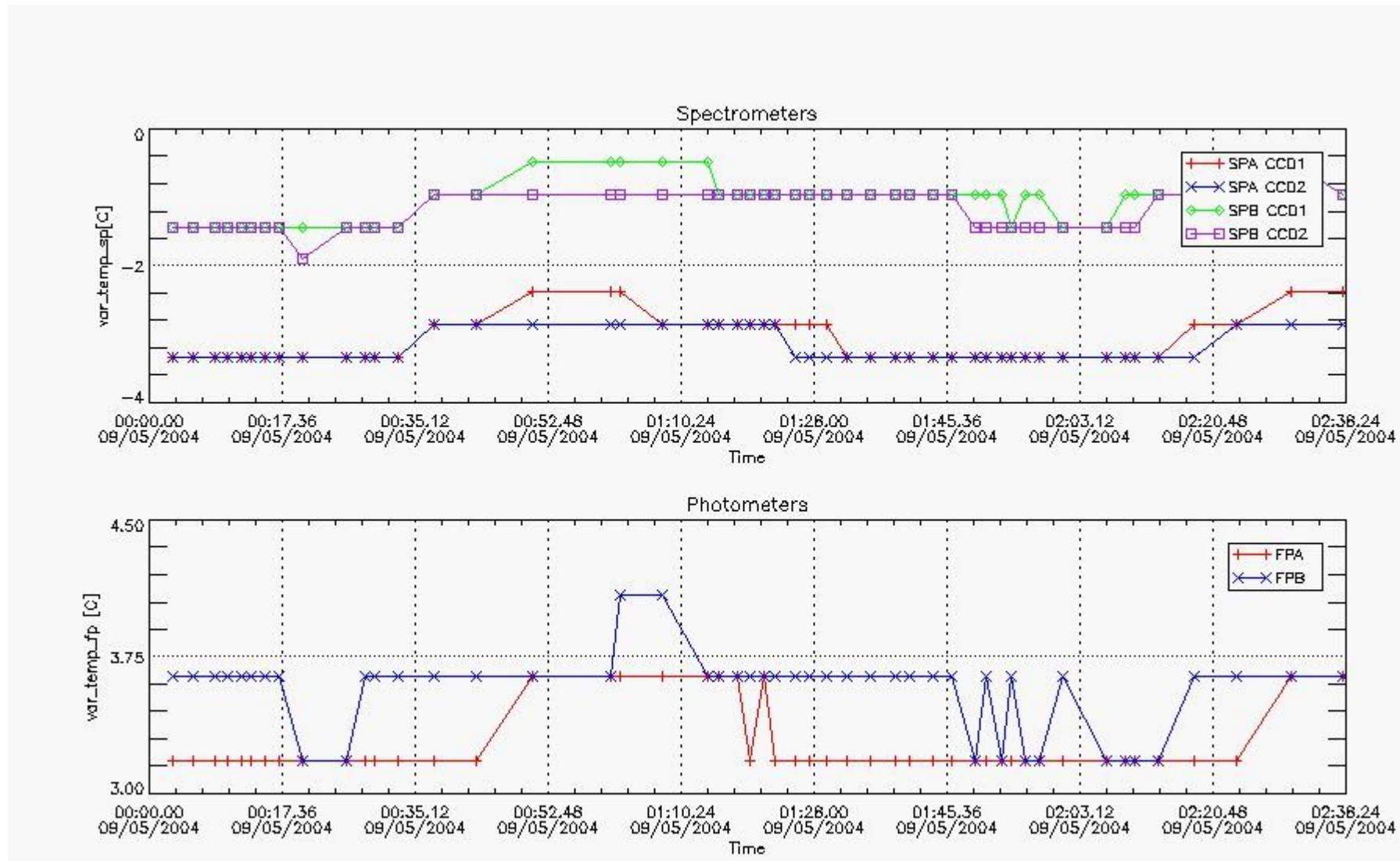
2. Summary of products arrived in PCF

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_1PNPDE20040509_000303_000000412026_00374_11450_0007.N1	09-MAY-2004 00:03:03	Bright	41.000	83		2.3780	11000.	82	11450	No
GOM_TRA_1PNPDE20040509_000542_000000382026_00374_11450_0008.N1	09-MAY-2004 00:05:42	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11450	No
GOM_TRA_1PNPDE20040509_000847_000000372026_00374_11450_0009.N1	09-MAY-2004 00:08:47	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	11450	No
GOM_TRA_1PNPDE20040509_001017_000000442026_00374_11450_0010.N1	09-MAY-2004 00:10:17	Bright	44.000	55	79Zet UMa	2.0600	10200.	88	11450	No
GOM_TRA_1PNPDE20040509_001213_000000392026_00374_11450_0011.N1	09-MAY-2004 00:12:13	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	11450	No
GOM_TRA_1PNPDE20040509_001325_000000382026_00374_11450_0012.N1	09-MAY-2004 00:13:25	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	11450	No
GOM_TRA_1PNPDE20040509_001518_000000442026_00374_11450_0013.N1	09-MAY-2004 00:15:18	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	11450	No
GOM_TRA_1PNPDE20040509_001709_000000532026_00374_11450_0014.N1	09-MAY-2004 00:17:09	Bright	52.500	130	23Bet Dra	2.7990	5800.0	105	11450	No
GOM_TRA_1PNPDE20040509_002023_000000332026_00374_11450_0015.N1	09-MAY-2004 00:20:23	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	11450	No
GOM_TRA_1PNPDE20040509_002605_000000442026_00374_11450_0016.N1	09-MAY-2004 00:26:05	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	11450	No
GOM_TRA_1PNPDE20040509_002831_000000362026_00374_11450_0017.N1	09-MAY-2004 00:28:31	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	11450	No
GOM_TRA_1PNPDE20040509_002946_000000382026_00374_11450_0018.N1	09-MAY-2004 00:29:46	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	11450	No
GOM_TRA_1PNPDE20040509_003300_000000872026_00374_11450_0019.N1	09-MAY-2004 00:33:00	Twilight	86.500	66	37Gam Cyg	2.2080	5900.0	173	11450	No
GOM_TRA_1PNPDE20040509_003738_000001172026_00374_11450_0020.N1	09-MAY-2004 00:37:38	Twilight	116.50	92	53Eps Cyg	2.5000	4500.0	233	11450	No
GOM_TRA_1PNPDE20040509_004314_000000522026_00374_11450_0021.N1	09-MAY-2004 00:43:14	Twilight	52.000	90	54Alp Peg	2.4870	11000.	104	11450	No
GOM_TRA_1PNPDE20040509_005039_000000452026_00374_11450_0022.N1	09-MAY-2004 00:50:39	Dark	44.500	52	16Bet Cet	2.0370	4500.0	89	11450	No
GOM_TRA_1PNPDE20040509_010101_000000472026_00374_11450_0023.N1	09-MAY-2004 01:01:01	Dark	46.500	63	Bet Gru	2.1500	2800.0	93	11450	No
GOM_TRA_1PNPDE20040509_010218_000000452026_00374_11450_0024.N1	09-MAY-2004 01:02:18	Dark	44.500	31	Alp Gru	1.7340	15200.	89	11450	No
GOM_TRA_1PNPDE20040509_010751_000000462026_00375_11451_0025.N1	09-MAY-2004 01:07:51	Dark	46.000	45	Alp Pav	1.9400	26000.	92	11451	No
GOM_TRA_1PNPDE20040509_011350_000000452026_00375_11451_0026.N1	09-MAY-2004 01:13:50	Dark	44.500	43	Alp TrA	1.9100	4250.0	89	11451	No
GOM_TRA_1PNPDE20040509_011525_000000402026_00375_11451_0027.N1	09-MAY-2004 01:15:25	Twilight	40.000	145	Gam TrA	2.8720	10600.	80	11451	No
GOM_TRA_1PNPDE20040509_011754_000000482026_00375_11451_0028.N1	09-MAY-2004 01:17:54	Twilight	47.500	4	Alp1Cen	-0.010000	5800.0	95	11451	No
GOM_TRA_1PNPDE20040509_011929_000000592026_00375_11451_0029.N1	09-MAY-2004 01:19:29	Bright	58.500	25	35Lam Sco	1.6200	28000.	117	11451	No
GOM_TRA_1PNPDE20040509_012124_000000422026_00375_11451_0030.N1	09-MAY-2004 01:21:24	Bright	42.000	78	Alp Lup	2.3040	28000.	84	11451	No
GOM_TRA_1PNPDE20040509_012254_000000422026_00375_11451_0031.N1	09-MAY-2004 01:22:54	Bright	42.000	81	Eta Cen	2.3560	28000.	84	11451	No
GOM_TRA_1PNPDE20040509_012530_000000712026_00375_11451_0032.N1	09-MAY-2004 01:25:30	Bright	71.000	16	21Alp Sco	1.0200	3000.0	142	11451	No
GOM_TRA_1PNPDE20040509_012726_000000592026_00375_11451_0000.N1	09-MAY-2004 01:27:26	Bright	58.500	80	7Del Sco	2.3160	30000.	117	11451	No
GOM_TRA_1PNPDE20040509_012939_000000742026_00375_11451_0001.N1	09-MAY-2004 01:29:39	Bright	73.500	86	35Eta Oph	2.4300	10200.	147	11451	No
GOM_TRA_1PNPDE20040509_013218_000000432026_00375_11451_0002.N1	09-MAY-2004 01:32:18	Bright	43.000	104	27Bet Lib	2.6140	13100.	86	11451	No
GOM_TRA_1PNPDE20040509_013532_000000382026_00375_11451_0003.N1	09-MAY-2004 01:35:32	Bright	38.000	121	29Gam Vir	2.7400	7200.0	76	11451	No
GOM_TRA_1PNPDE20040509_013841_000000372026_00375_11451_0004.N1	09-MAY-2004 01:38:41	Bright	37.000	138	47Eps Vir	2.8280	4700.0	74	11451	No
GOM_TRA_1PNPDE20040509_014034_000000382026_00375_11451_0005.N1	09-MAY-2004 01:40:34	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	11451	No
GOM_TRA_1PNPDE20040509_014338_000000422026_00375_11451_0006.N1	09-MAY-2004 01:43:38	Bright	42.000	83		2.3780	11000.	84	11451	No
GOM_TRA_1PNPDE20040509_014617_000000382026_00375_11451_0007.N1	09-MAY-2004 01:46:17	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11451	No
GOM_TRA_1PNPDE20040509_014923_000000382026_00375_11451_0008.N1	09-MAY-2004 01:49:23	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	11451	No
GOM_TRA_1PNPDE20040509_015052_000000372026_00375_11451_0009.N1	09-MAY-2004 01:50:52	Bright	36.500	55	79Zet UMa	2.0600	10200.	73	11451	No
GOM_TRA_1PNPDE20040509_015250_000000372026_00375_11451_0010.N1	09-MAY-2004 01:52:50	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	11451	No
GOM_TRA_1PNPDE20040509_015401_000000392026_00375_11451_0011.N1	09-MAY-2004 01:54:01	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	11451	No
GOM_TRA_1PNPDE20040509_015553_000000412026_00375_11451_0012.N1	09-MAY-2004 01:55:53	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	11451	No
GOM_TRA_1PNPDE20040509_015744_000000552026_00375_11451_0013.N1	09-MAY-2004 01:57:44	Bright	55.000	130	23Bet Dra	2.7990	5800.0	110	11451	No
GOM_TRA_1PNPDE20040509_020058_000000352026_00375_11451_0014.N1	09-MAY-2004 02:00:58	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	11451	No
GOM_TRA_1PNPDE20040509_020640_000000462026_00375_11451_0015.N1	09-MAY-2004 02:06:40	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	11451	No
GOM_TRA_1PNPDE20040509_020906_000000522026_00375_11451_0016.N1	09-MAY-2004 02:09:06	Bright	52.000	76	27Gam Cas	2.3000	30000.	104	11451	No
GOM_TRA_1PNPDE20040509_021021_000000372026_00375_11451_0017.N1	09-MAY-2004 02:10:21	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	11451	No
GOM_TRA_1PNPDE20040509_021335_000000922026_00375_11451_0018.N1	09-MAY-2004 02:13:35	Twilight	92.000	66	37Gam Cyg	2.2080	5900.0	184	11451	No
GOM_TRA_1PNPDE20040509_021814_000001082026_00375_11451_0019.N1	09-MAY-2004 02:18:14	Twilight	107.50	92	53Eps Cyg	2.5000	4500.0	215	11451	No
GOM_TRA_1PNPDE20040509_022351_000000492026_00375_11451_0020.N1	09-MAY-2004 02:23:51	Twilight	49.000	90	54Alp Peg	2.4870	11000.	98	11451	No
GOM_TRA_1PNPDE20040509_023114_000000462026_00375_11451_0021.N1	09-MAY-2004 02:31:14	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	11451	No
GOM_TRA_1PNPDE20040509_023804_000000472026_00375_11451_0022.N1	09-MAY-2004 02:38:04	Dark	47.000	84	Alp Phe	2.3970	4500.0	94	11451	No

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



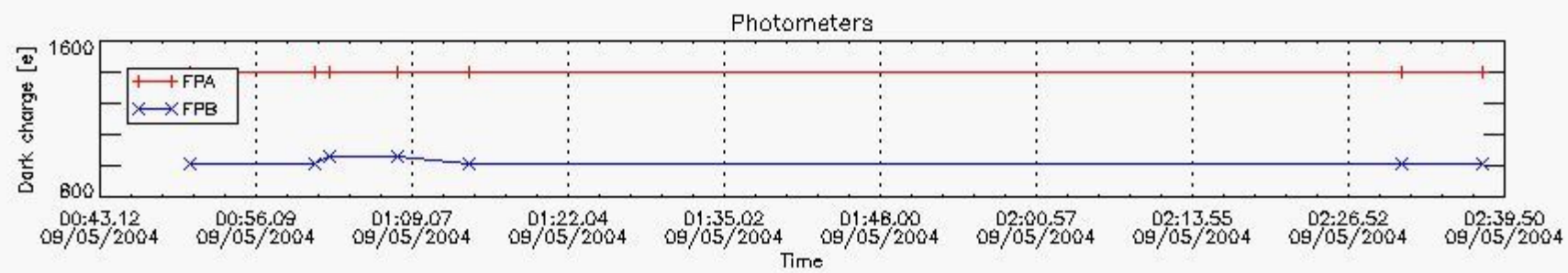
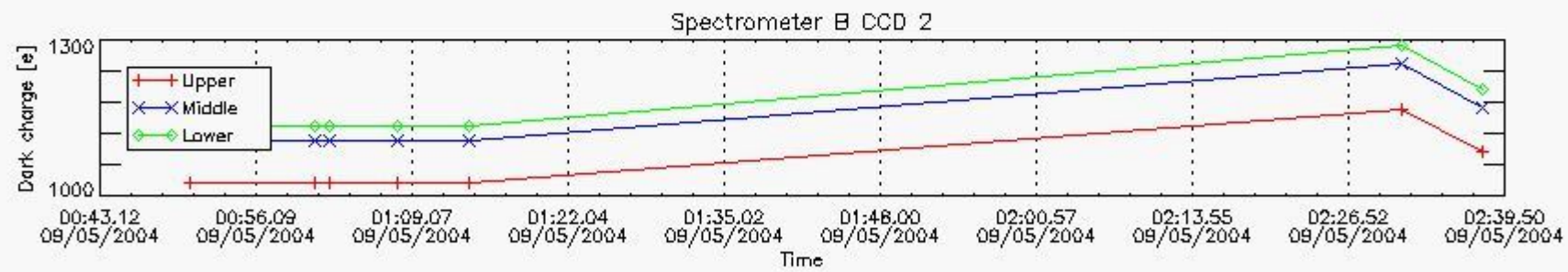
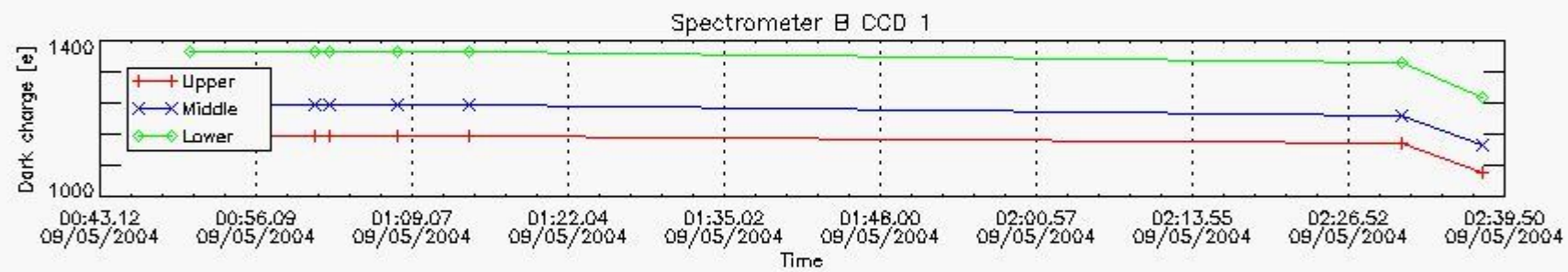
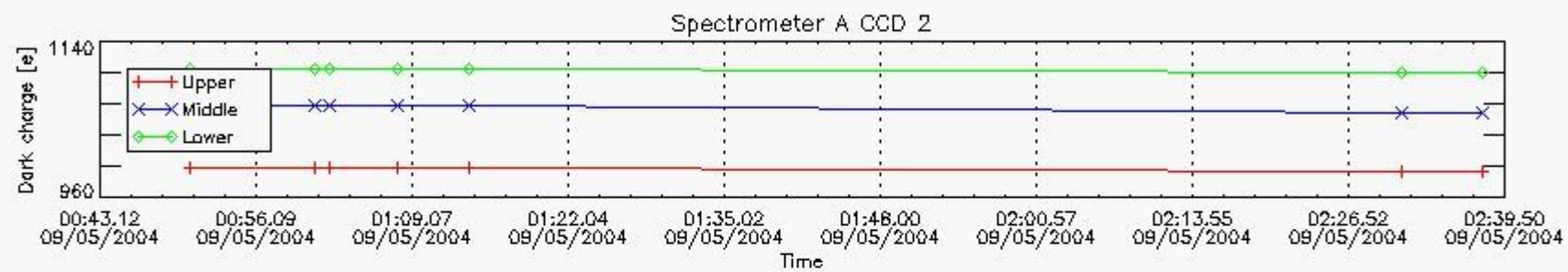
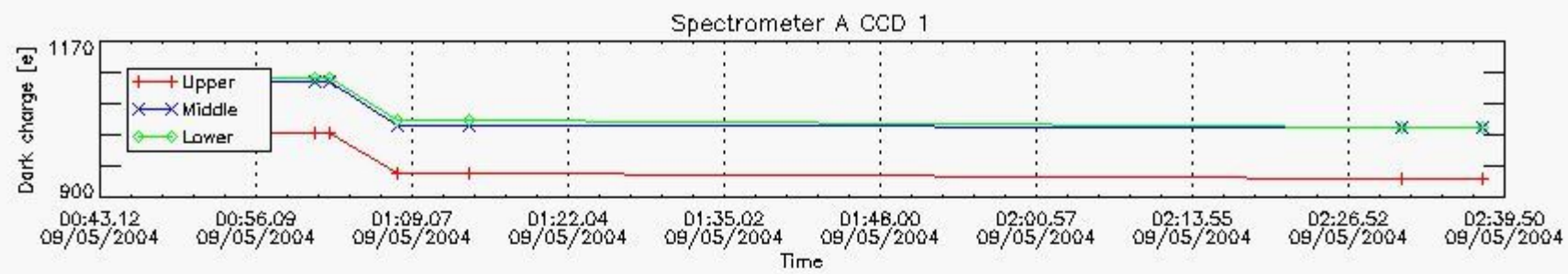
4. Overview of dark signal processing per product

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



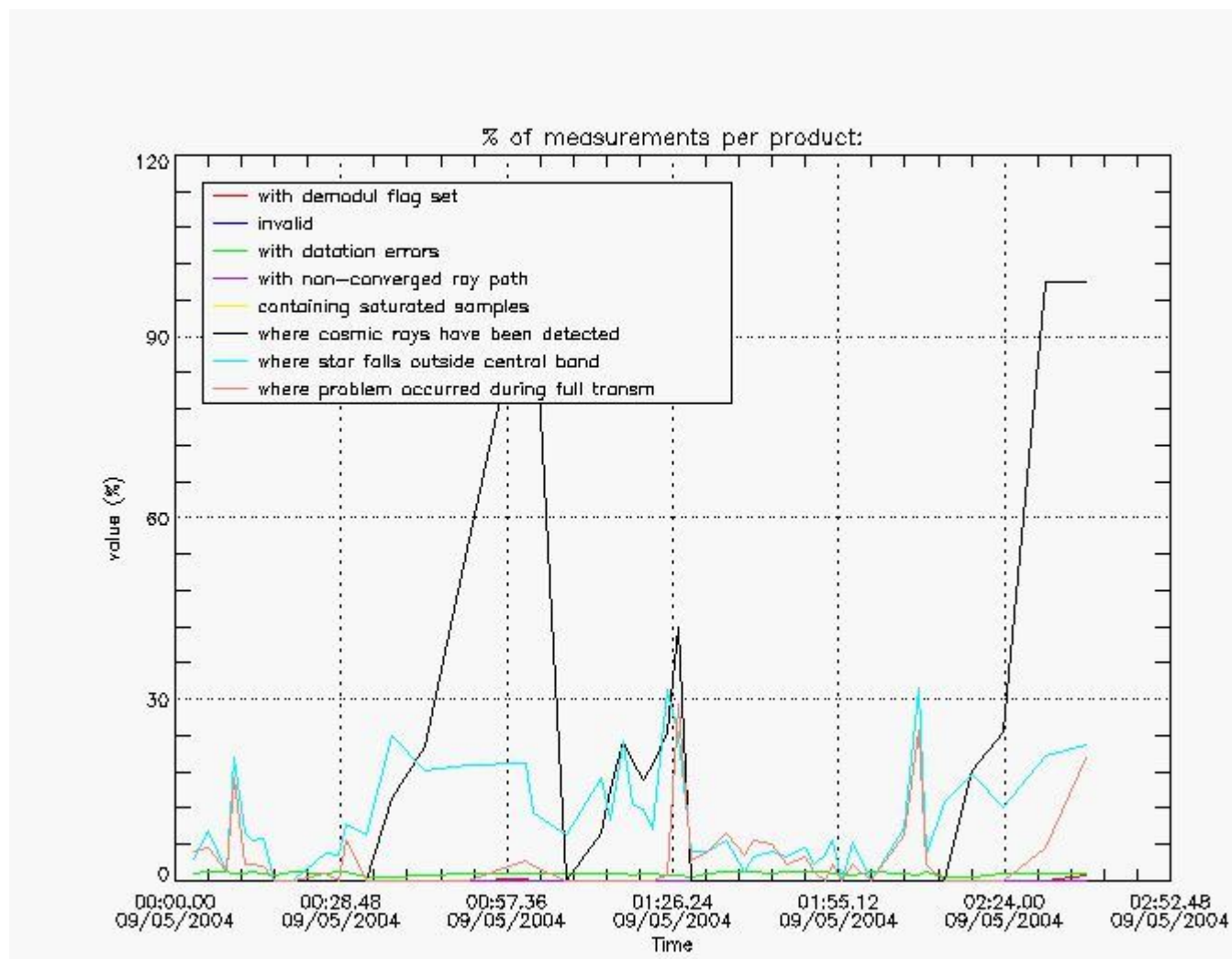
5. Demodulation flag and quality information monitoring

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:

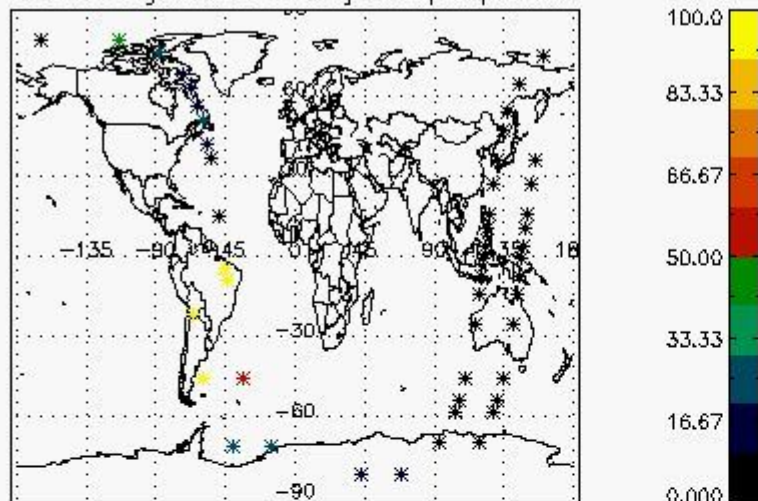
At least one measurement with demodulation flag set:	10.2041 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

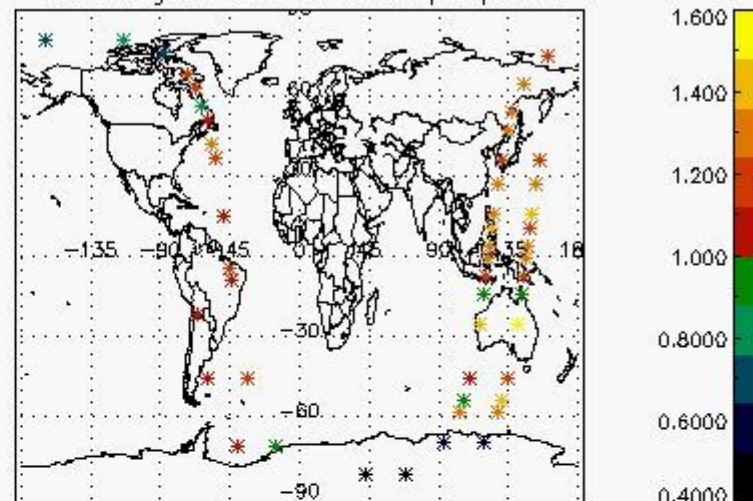


5.3 Plot quality information per product (world map)

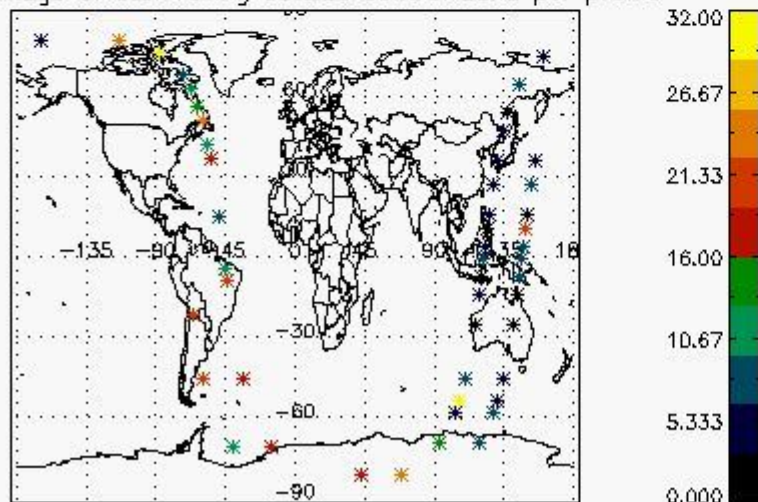
Percentage of cosmic ray hits per profile



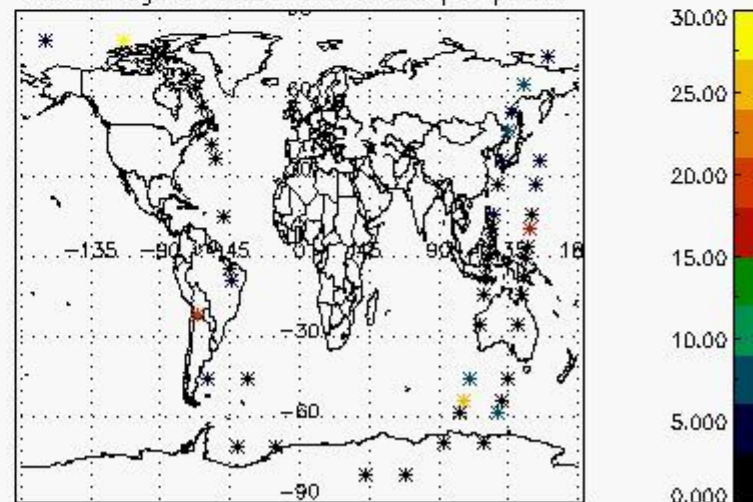
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



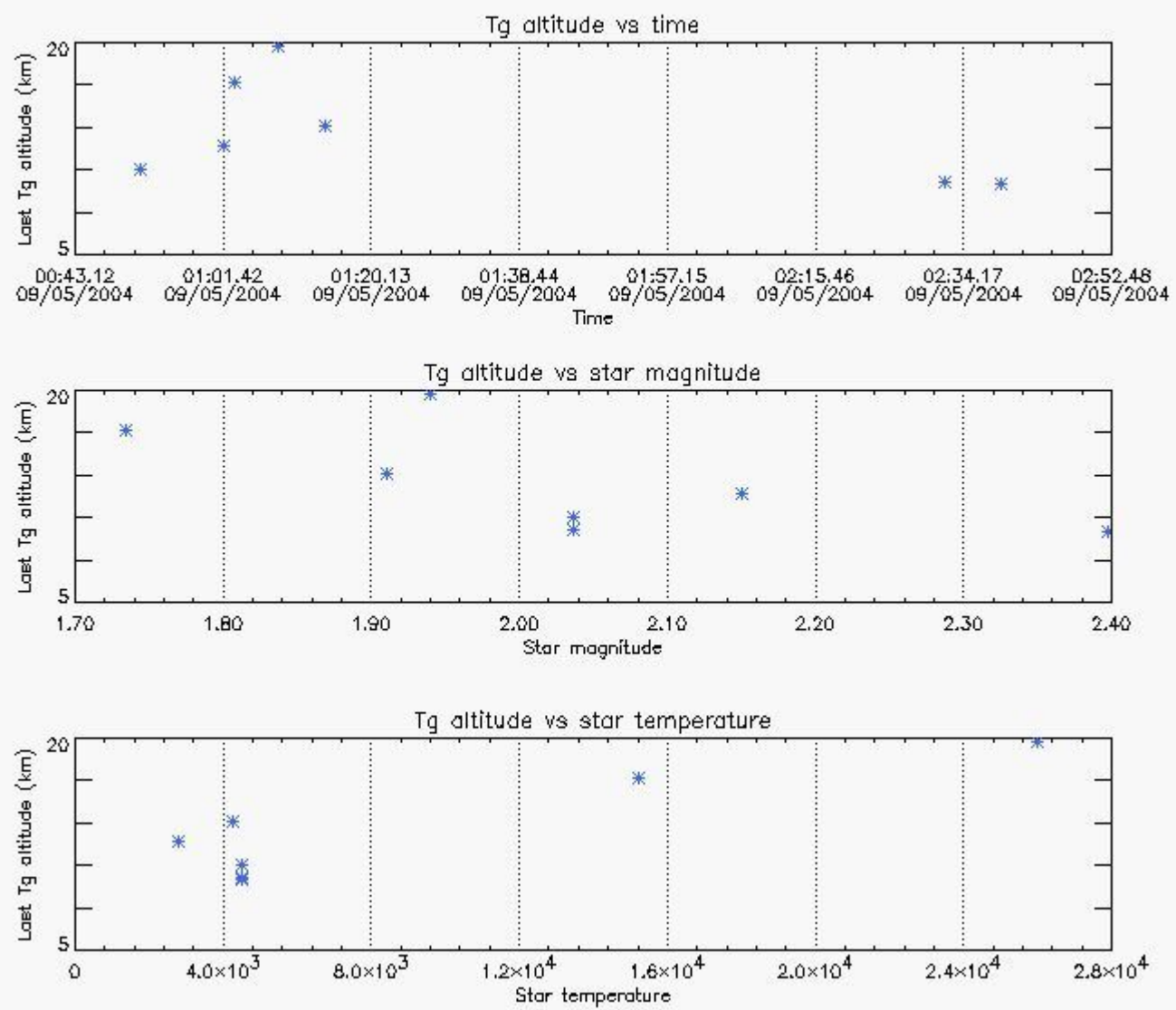
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.552	20.595	13.989
St. deviation:	3.7173	5.5390	3.5610
Maximum:	19.765	30.643	18.876
Minimum:	9.9662	5.2865	9.1404
Number of data:	7.0000	34.000	8.0000

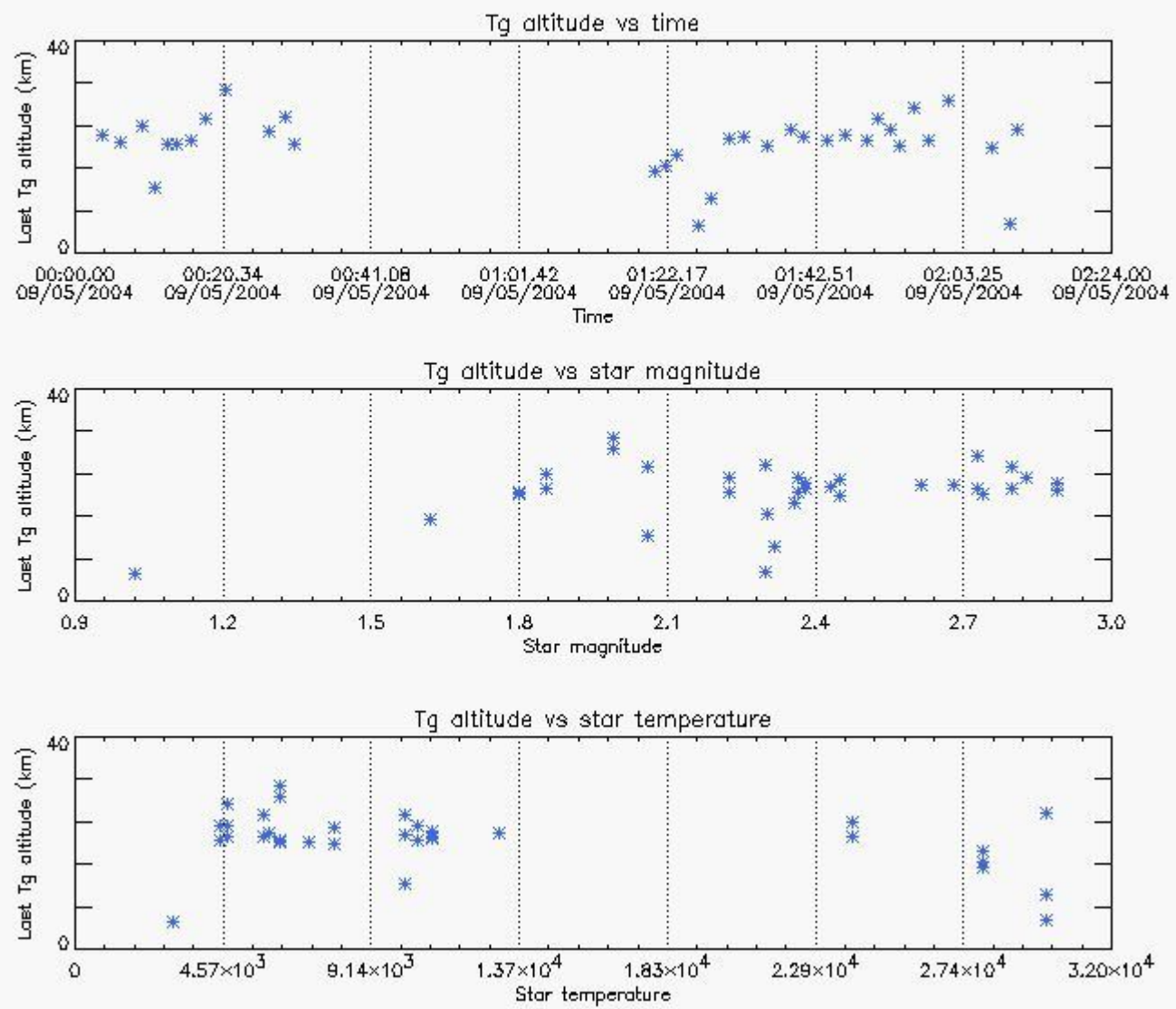
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



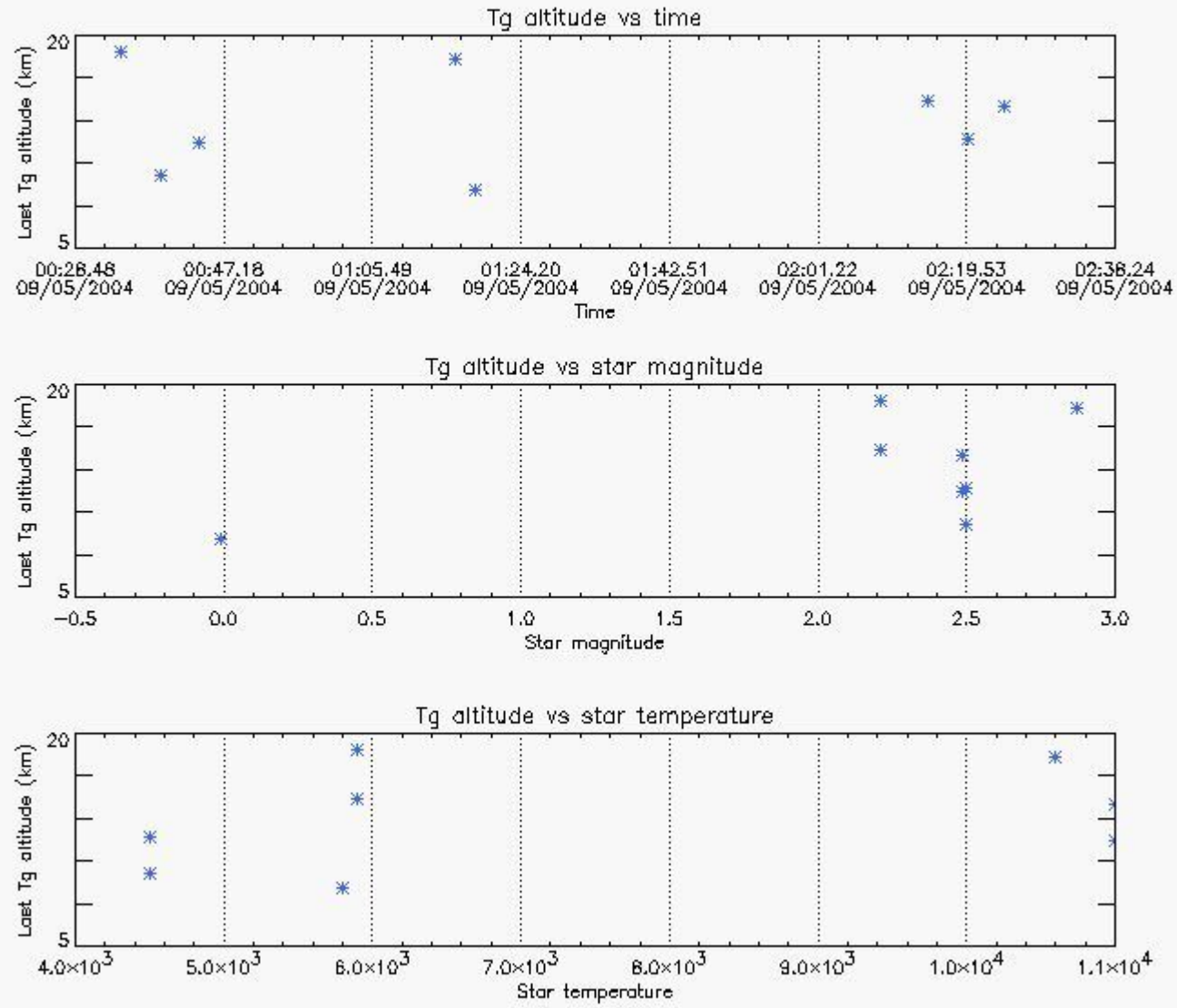
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

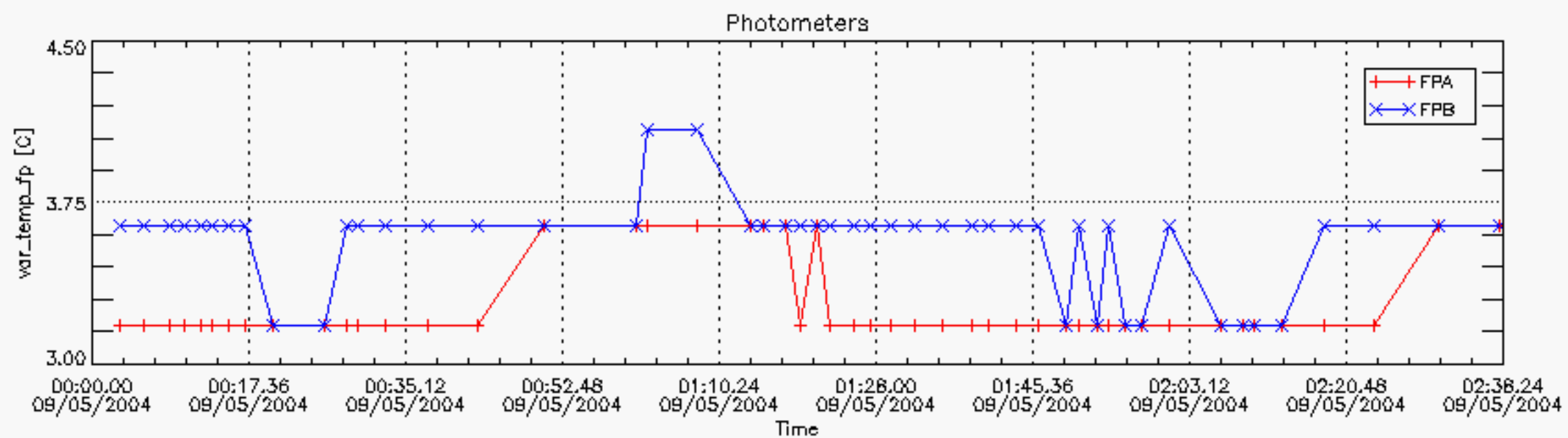
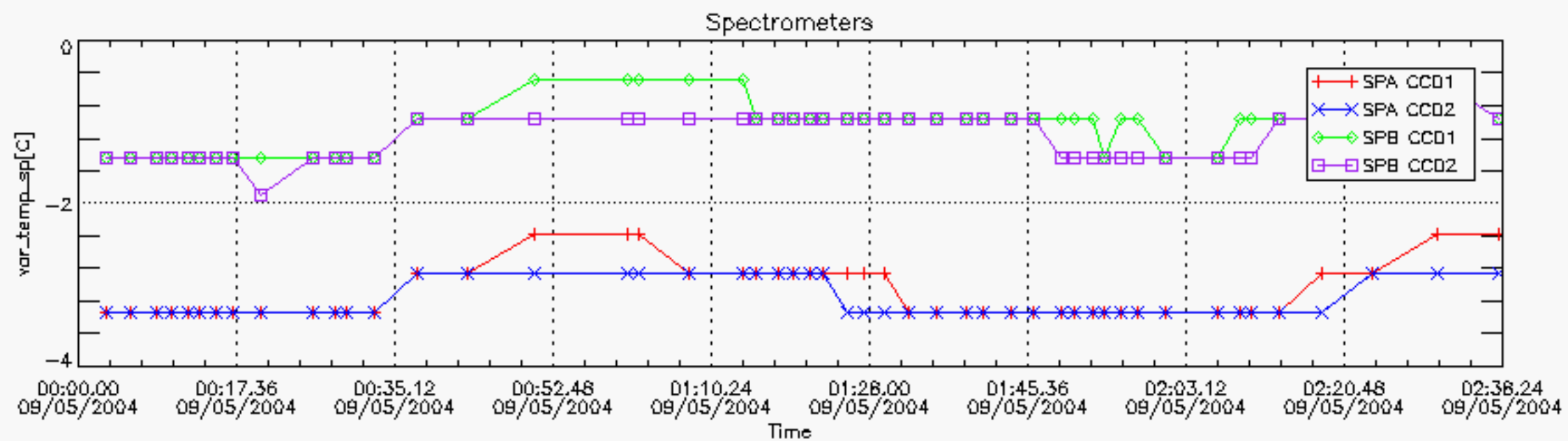
Tangent altitude at which the star is lost

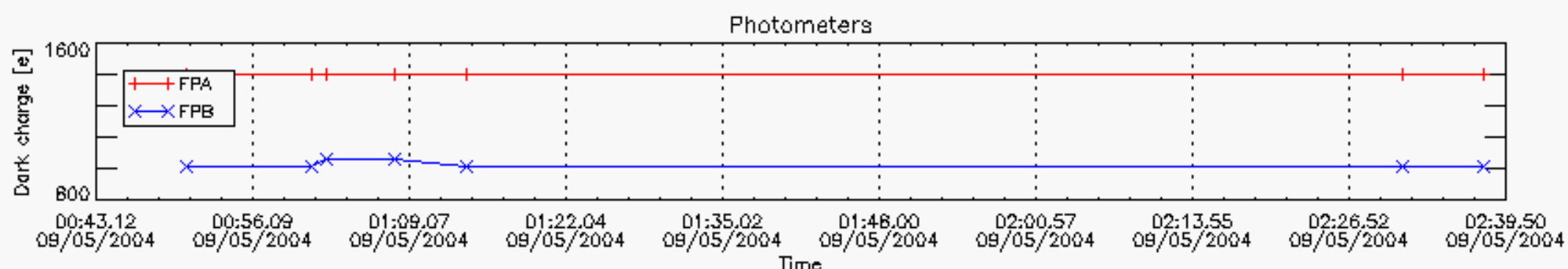
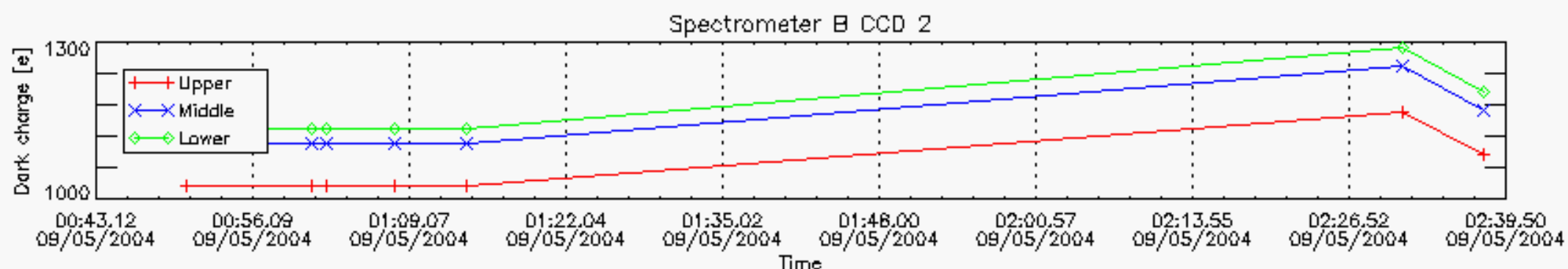
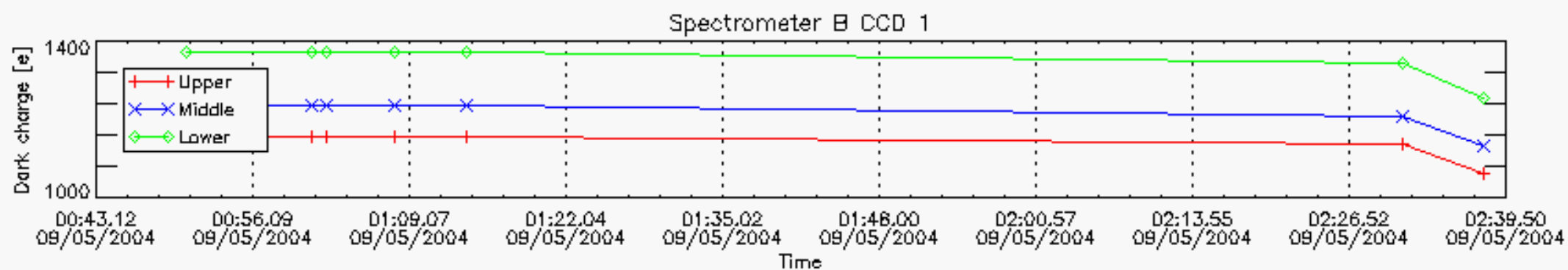
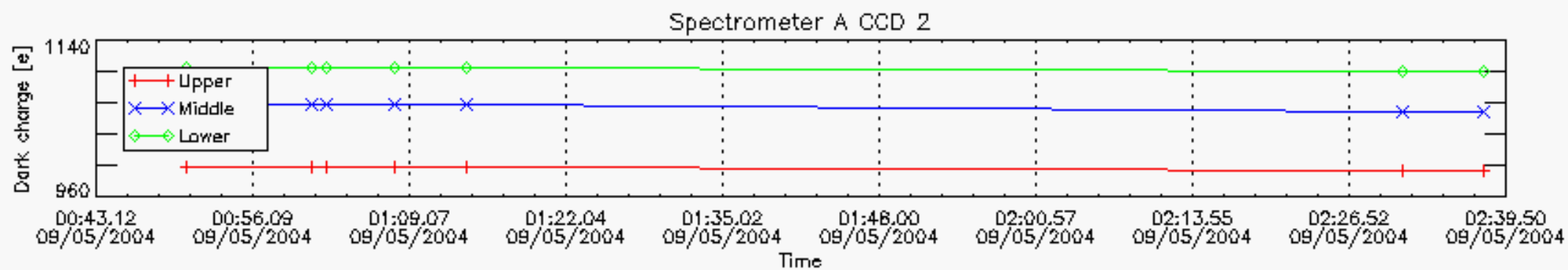
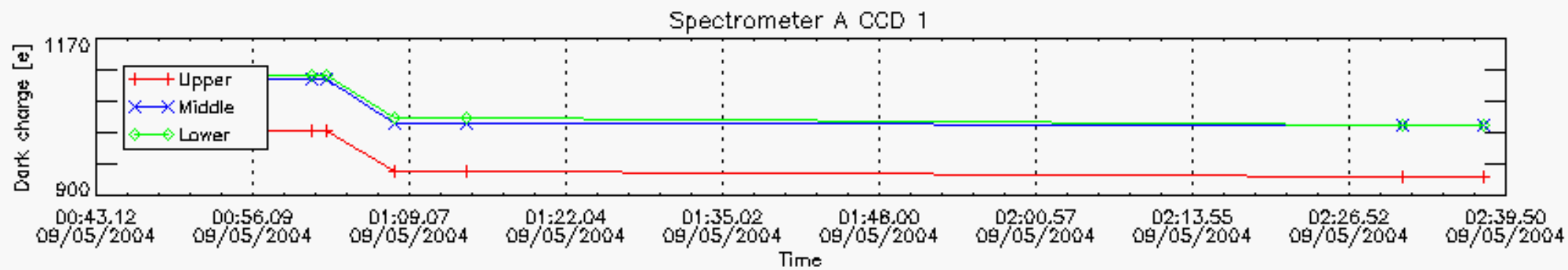


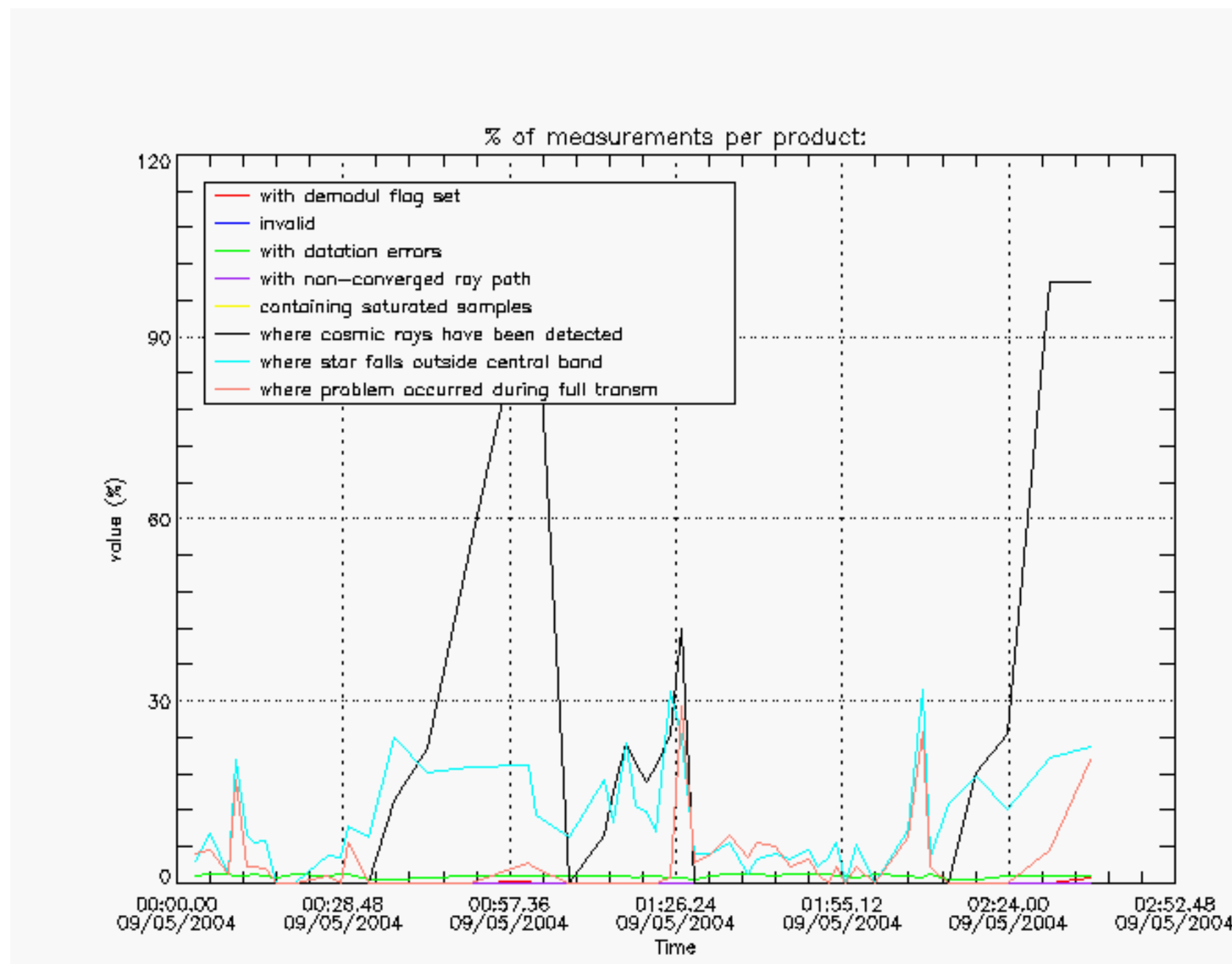
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

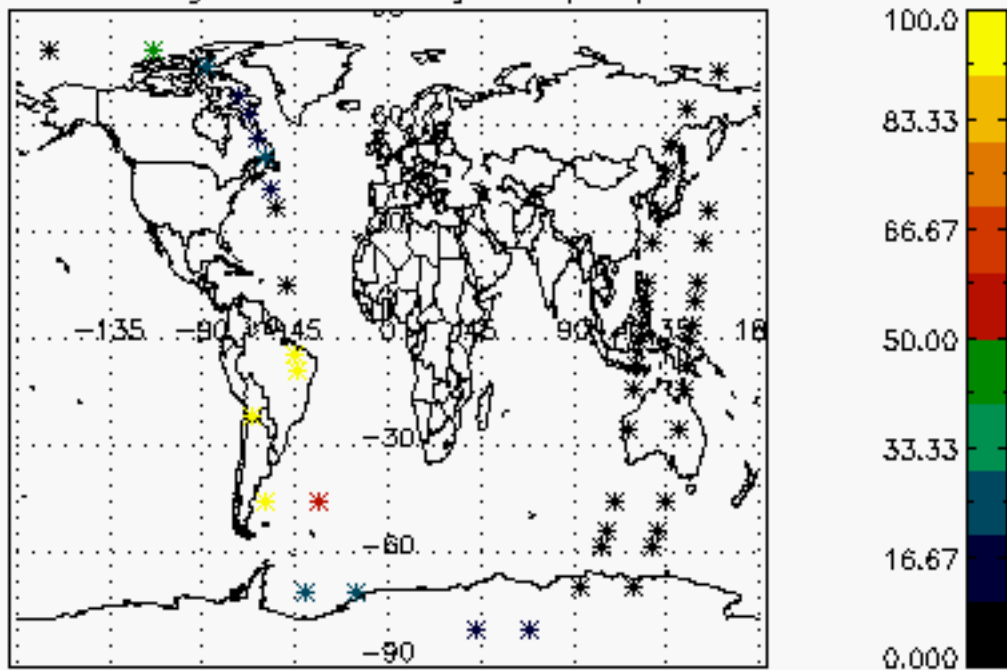
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.5	1446.6	1461.2	1446.5
St. deviation:	3.3449	4.8604	7.4114	8.4541
Maximum:	1482.0	1470.0	1514.0	1499.0
Minimum:	1446.0	1430.0	1446.0	1427.0
Number of data:	8200.0	8200.0	38550.	38550.



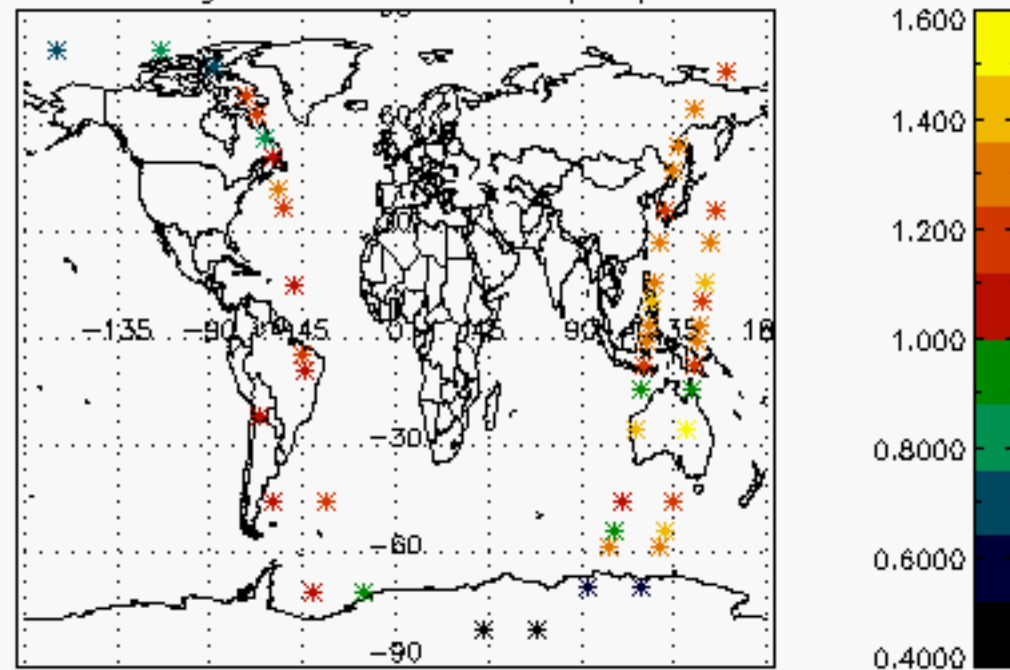




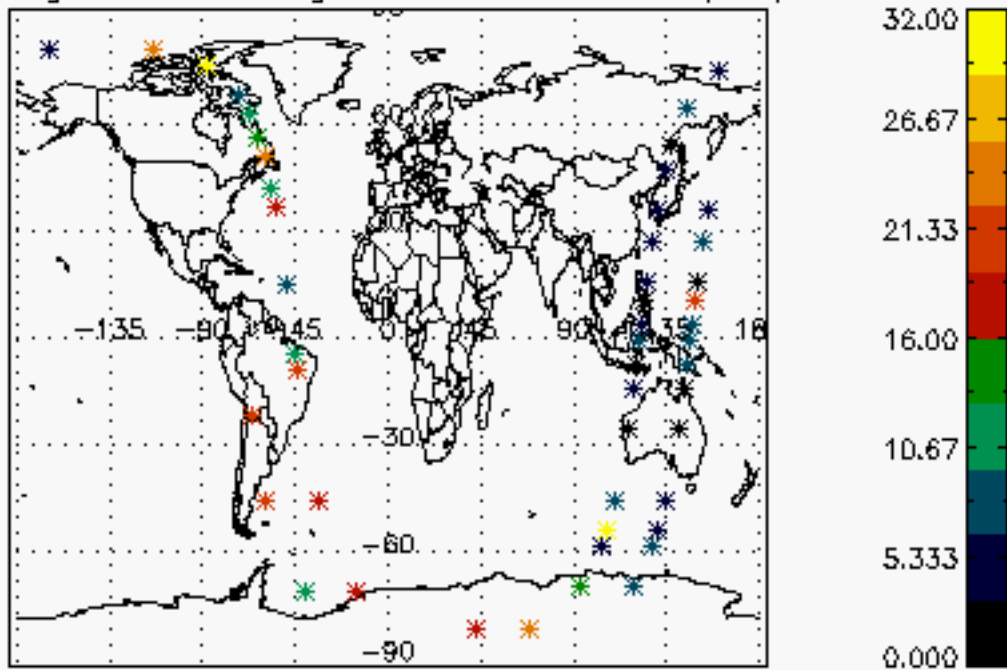
Percentage of cosmic ray hits per profile



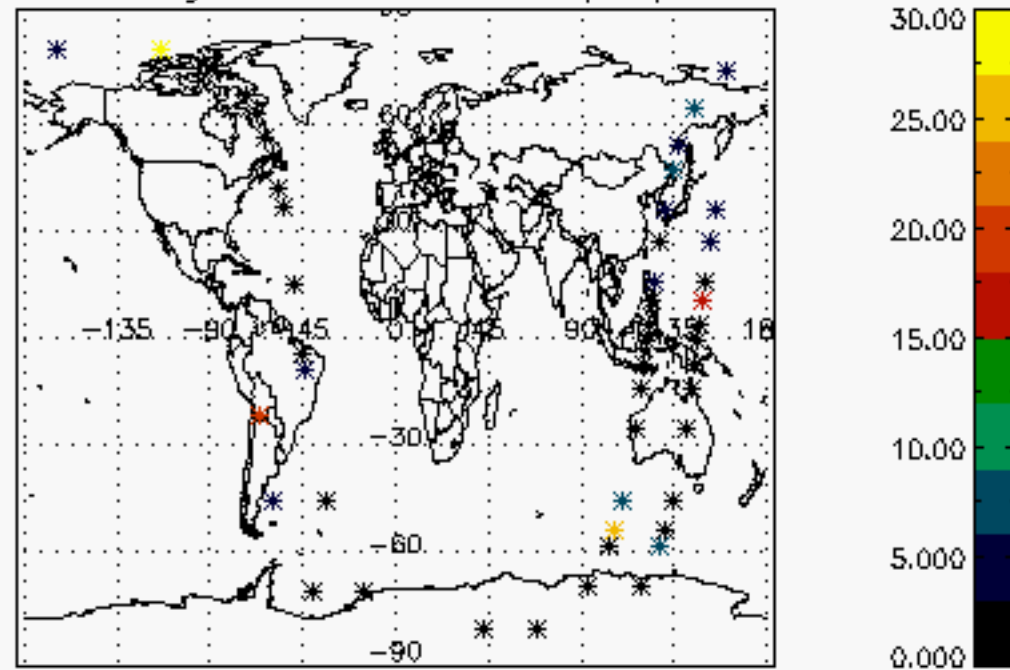
Percentage of datation errors per profile



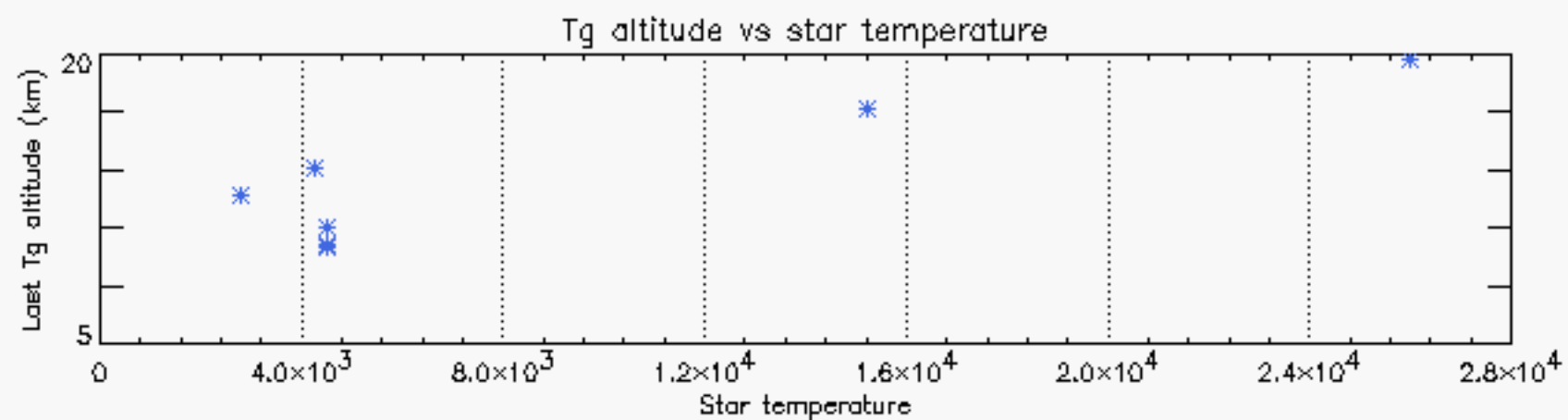
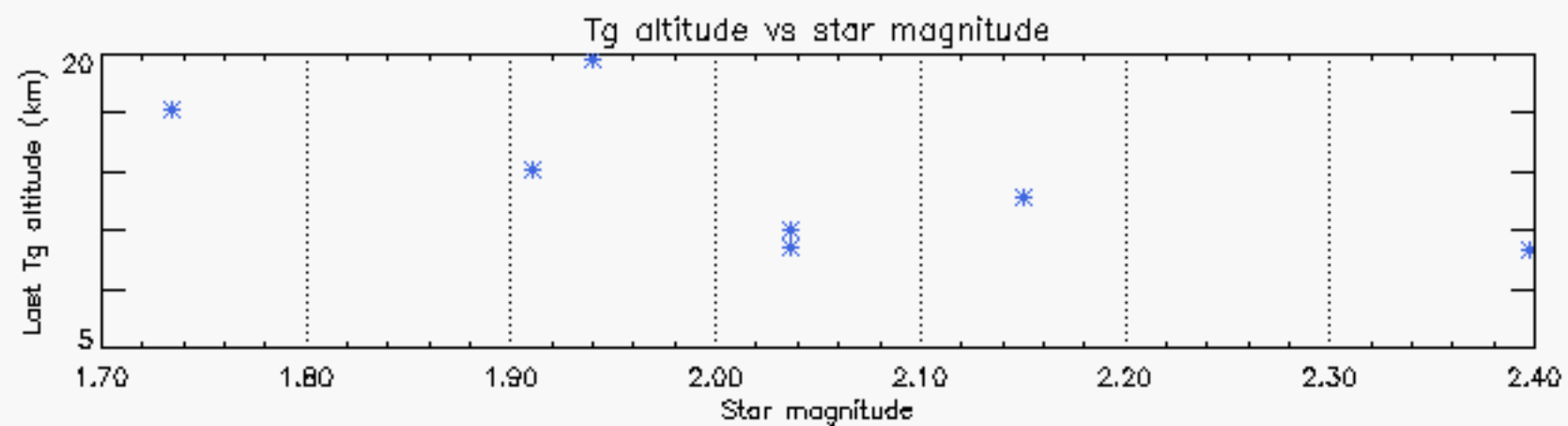
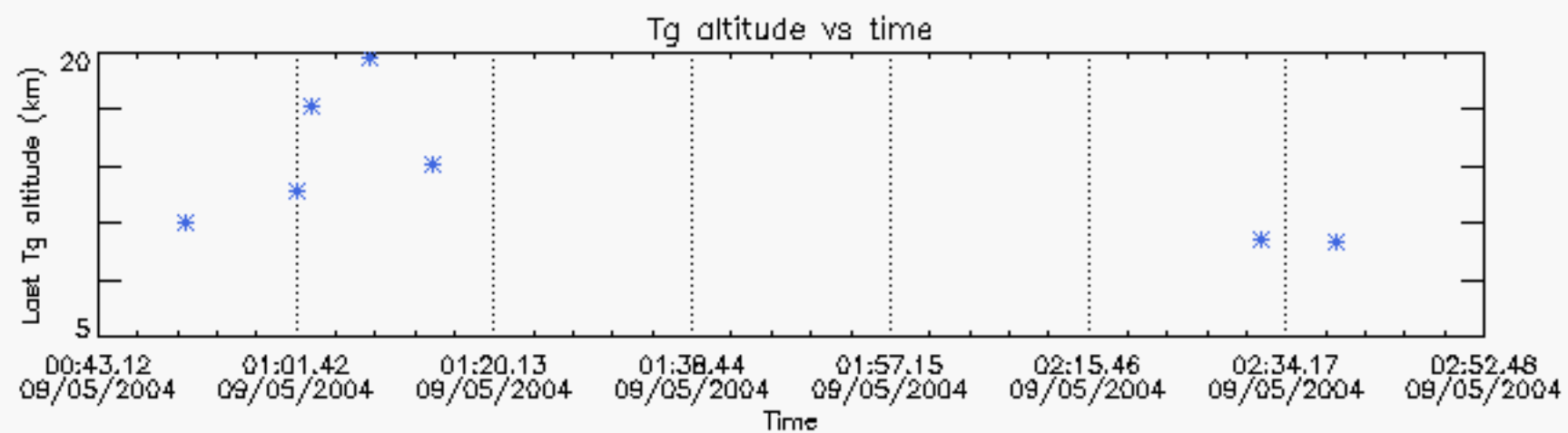
Percentage of star falling outside central band per profile



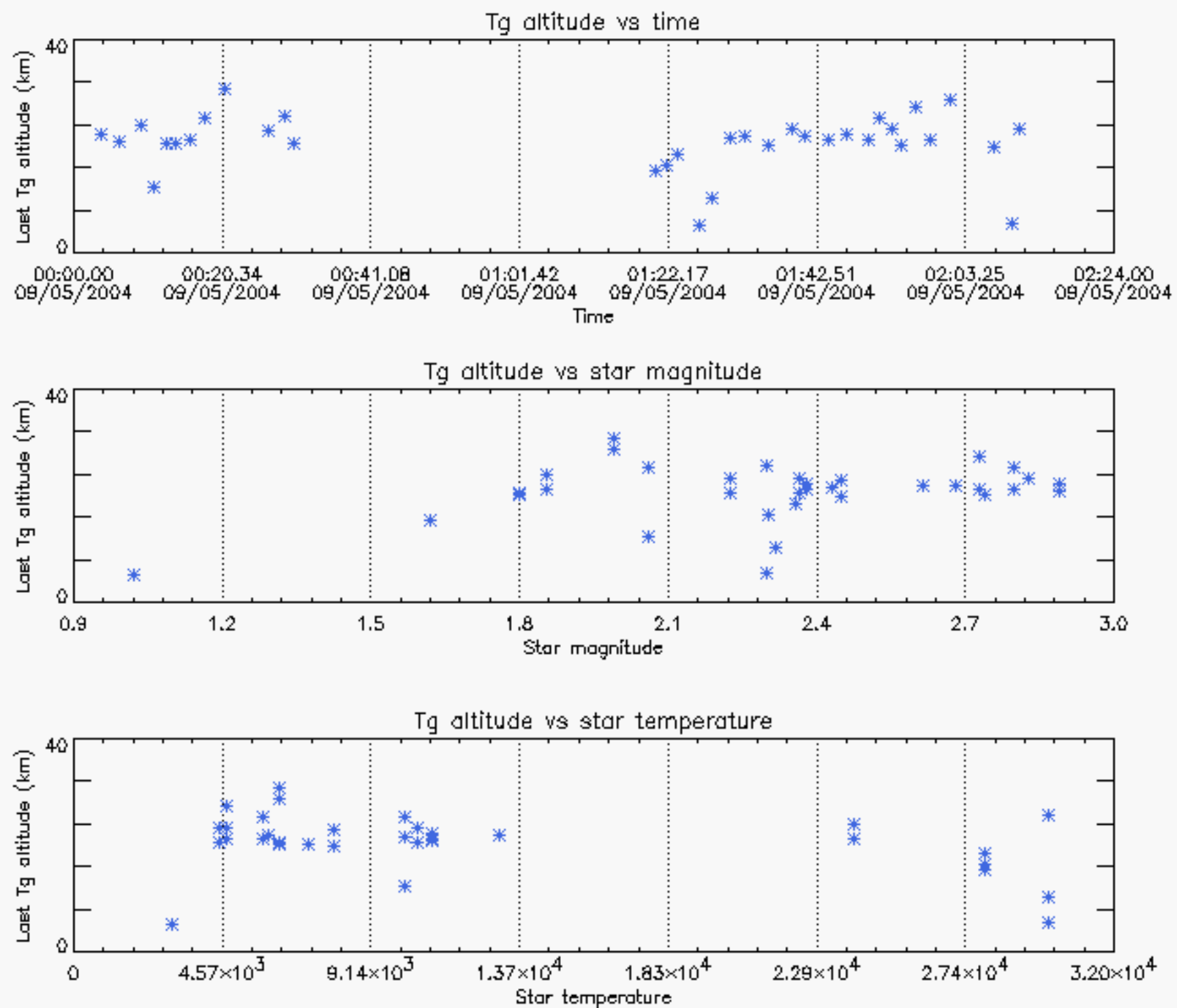
Percentage of saturation errors per profile



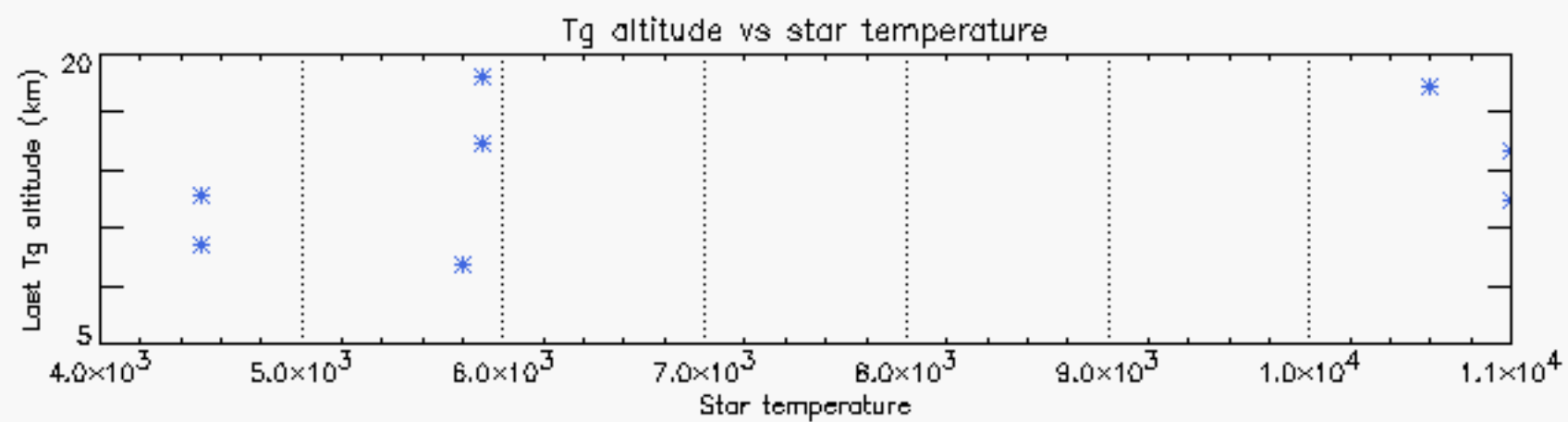
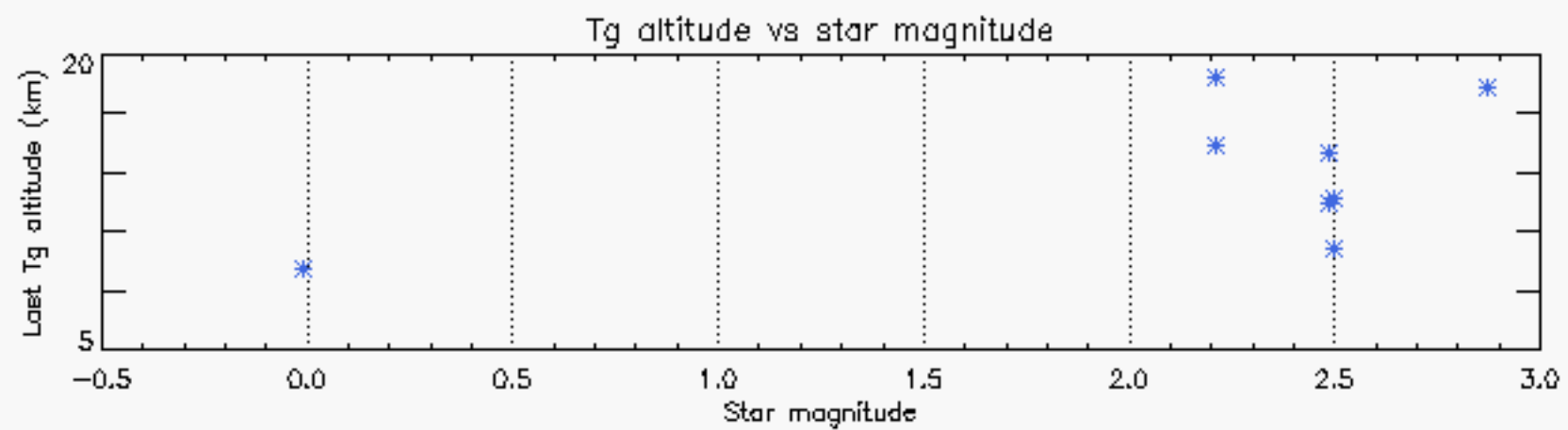
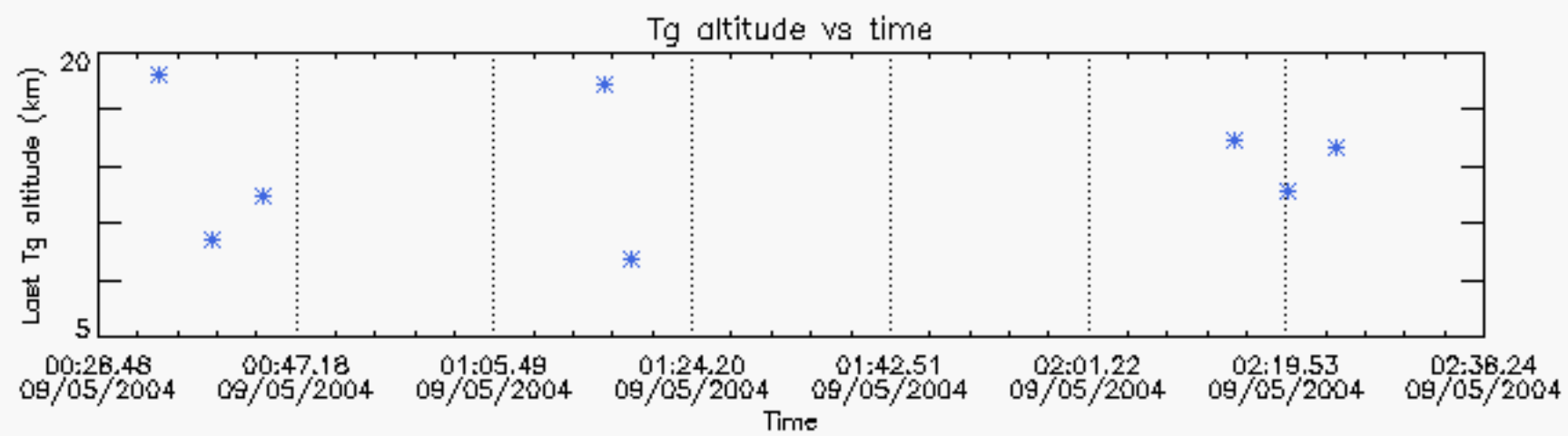
Tangent altitude at which the star is lost



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
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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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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
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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	
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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
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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
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7;	-4016.1;	24-MAY-2004	17:11:26;	Bright	;	41.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	82;	0;	11675
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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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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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