

GOMOS Daily Report 13-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	14MAY2004 03:43:23
Data source version	GOMOS/4.02
Start time of products	13-MAY-2004 (13MAY2004 00:00:00)
Stop time of products	14-MAY-2004 (14MAY2004 00:00:00)

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

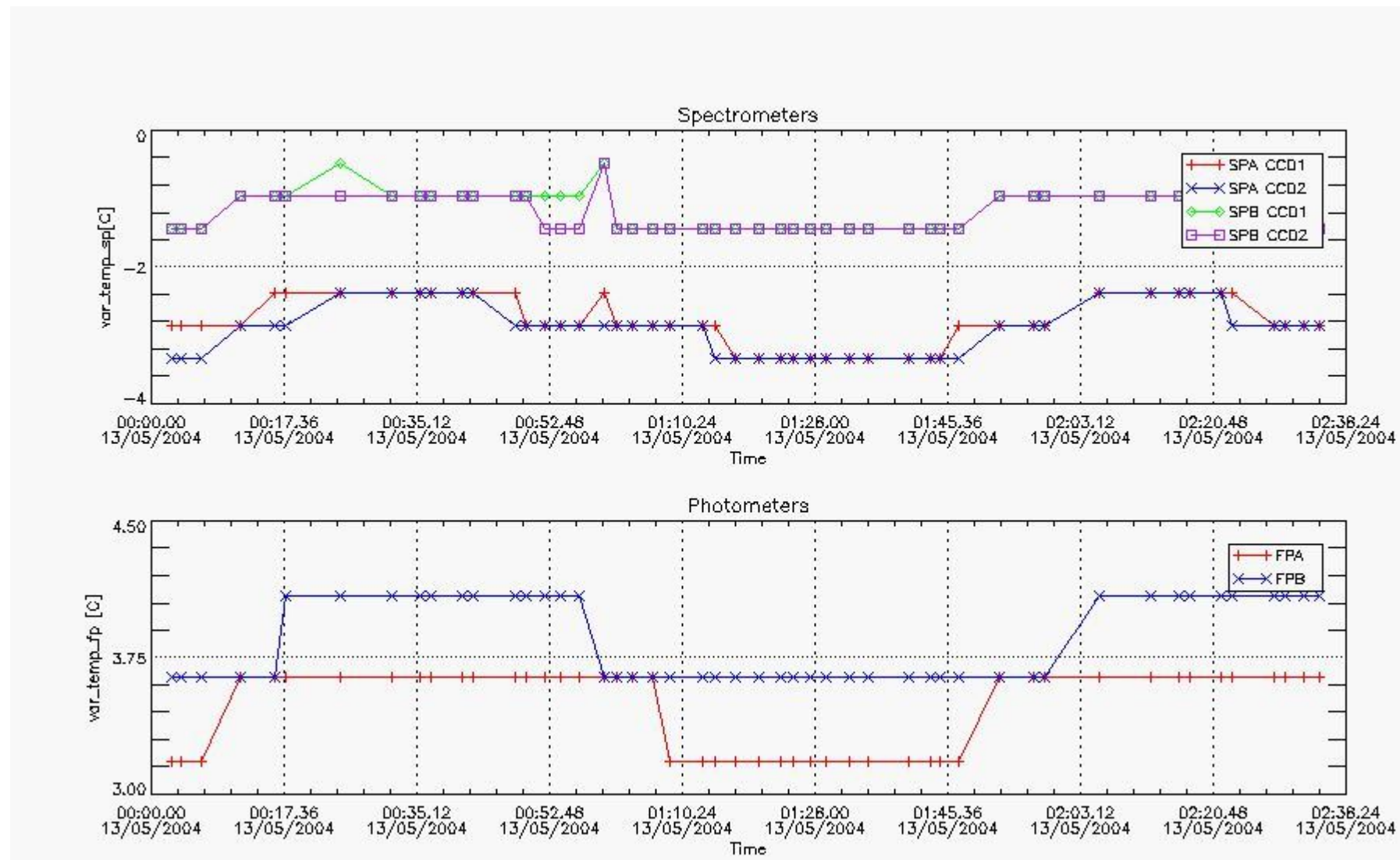
2. Summary of products arrived in PCF

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_1PNPDE20040513_000240_000000382026_00431_11507_0016.N1	13-MAY-2004 00:02:40	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	11507	No
GOM_TRA_1PNPDE20040513_000356_000000392026_00431_11507_0017.N1	13-MAY-2004 00:03:56	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	11507	No
GOM_TRA_1PNPDE20040513_000631_000001012026_00431_11507_0018.N1	13-MAY-2004 00:06:31	Bright	100.50	66	37Gam Cyg	2.2080	5900.0	201	11507	No
GOM_TRA_1PNPDE20040513_001150_000001262026_00431_11507_0019.N1	13-MAY-2004 00:11:50	Twilight	125.50	92	53Eps Cyg	2.5000	4500.0	251	11507	No
GOM_TRA_1PNPDE20040513_001619_000000452026_00431_11507_0020.N1	13-MAY-2004 00:16:19	Twilight	44.500	140	88Gam Peg	2.8340	26000.	89	11507	No
GOM_TRA_1PNPDE20040513_001749_000000552026_00431_11507_0021.N1	13-MAY-2004 00:17:49	Twilight	54.500	90	54Alp Peg	2.4870	11000.	109	11507	No
GOM_TRA_1PNPDE20040513_002502_000000462026_00431_11507_0022.N1	13-MAY-2004 00:25:02	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	11507	No
GOM_TRA_1PNPDE20040513_003150_000000482026_00431_11507_0023.N1	13-MAY-2004 00:31:50	Dark	47.500	84	Alp Phe	2.3970	4500.0	95	11507	No
GOM_TRA_1PNPDE20040513_003542_000000562026_00431_11507_0024.N1	13-MAY-2004 00:35:42	Dark	56.000	63	Bet Gru	2.1500	2800.0	112	11507	No
GOM_TRA_1PNPDE20040513_003704_000000572026_00431_11507_0025.N1	13-MAY-2004 00:37:04	Dark	57.000	31	Alp Gru	1.7340	15200.	114	11507	No
GOM_TRA_1PNPDE20040513_004111_000000392026_00432_11508_0026.N1	13-MAY-2004 00:41:11	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	11508	No
GOM_TRA_1PNPDE20040513_004242_000000462026_00432_11508_0027.N1	13-MAY-2004 00:42:42	Dark	45.500	45	Alp Pav	1.9400	26000.	91	11508	No
GOM_TRA_1PNPDE20040513_004817_000000432026_00432_11508_0028.N1	13-MAY-2004 00:48:17	Dark	42.500	43	Alp TrA	1.9100	4250.0	85	11508	No
GOM_TRA_1PNPDE20040513_004946_000000392026_00432_11508_0029.N1	13-MAY-2004 00:49:46	Twilight	39.000	145	Gam TrA	2.8720	10600.	78	11508	No
GOM_TRA_1PNPDE20040513_005215_000000522026_00432_11508_0030.N1	13-MAY-2004 00:52:15	Twilight	52.000	4	Alp1Cen	-0.010000	5800.0	104	11508	No
GOM_TRA_1PNPDE20040513_005419_000000562026_00432_11508_0031.N1	13-MAY-2004 00:54:19	Bright	56.000	25	35Lam Sco	1.6200	28000.	112	11508	No
GOM_TRA_1PNPDE20040513_005640_000000432026_00432_11508_0032.N1	13-MAY-2004 00:56:40	Bright	43.000	109	Bet Lup	2.6770	26000.	86	11508	No
GOM_TRA_1PNPDE20040513_010000_000000612026_00432_11508_0000.N1	13-MAY-2004 01:00:00	Bright	61.000	16	21Alp Sco	1.0200	3000.0	122	11508	Yes
GOM_TRA_1PNPDE20040513_010148_000000552026_00432_11508_0001.N1	13-MAY-2004 01:01:48	Bright	54.500	80	7Del Sco	2.3160	30000.	109	11508	No
GOM_TRA_1PNPDE20040513_010352_000000692026_00432_11508_0002.N1	13-MAY-2004 01:03:52	Bright	68.500	86	35Eta Oph	2.4300	10200.	137	11508	No
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GOM_TRA_1PNPDE20040513_010847_000000542026_00432_11508_0004.N1	13-MAY-2004 01:08:47	Bright	54.000	120	1Del Oph	2.7340	3200.0	108	11508	No
GOM_TRA_1PNPDE20040513_011301_000000382026_00432_11508_0005.N1	13-MAY-2004 01:13:01	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	11508	No
GOM_TRA_1PNPDE20040513_011442_000000382026_00432_11508_0006.N1	13-MAY-2004 01:14:42	Bright	38.000	111	8Eta Boo	2.6800	6000.0	76	11508	No
GOM_TRA_1PNPDE20040513_011732_000000412026_00432_11508_0007.N1	13-MAY-2004 01:17:32	Bright	40.500	83		2.3780	11000.	81	11508	No
GOM_TRA_1PNPDE20040513_012035_000000372026_00432_11508_0008.N1	13-MAY-2004 01:20:35	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	11508	No
GOM_TRA_1PNPDE20040513_012328_000000372026_00432_11508_0009.N1	13-MAY-2004 01:23:28	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	11508	No
GOM_TRA_1PNPDE20040513_012501_000000362026_00432_11508_0010.N1	13-MAY-2004 01:25:01	Bright	35.500	55	79Zet UMa	2.0600	10200.	71	11508	No
GOM_TRA_1PNPDE20040513_012721_000000412026_00432_11508_0011.N1	13-MAY-2004 01:27:21	Bright	40.500	82	48Bet UMa	2.3650	10600.	81	11508	No
GOM_TRA_1PNPDE20040513_012932_000000432026_00432_11508_0012.N1	13-MAY-2004 01:29:32	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	11508	No
GOM_TRA_1PNPDE20040513_013232_000000582026_00432_11508_0013.N1	13-MAY-2004 01:32:32	Bright	58.000	69	33Gam Dra	2.2310	3800.0	116	11508	No
GOM_TRA_1PNPDE20040513_013507_000000382026_00432_11508_0014.N1	13-MAY-2004 01:35:07	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	11508	No
GOM_TRA_1PNPDE20040513_014027_000000472026_00432_11508_0015.N1	13-MAY-2004 01:40:27	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	11508	No
GOM_TRA_1PNPDE20040513_014316_000000532026_00432_11508_0016.N1	13-MAY-2004 01:43:16	Bright	53.000	76	27Gam Cas	2.3000	30000.	106	11508	No
GOM_TRA_1PNPDE20040513_014432_000000382026_00432_11508_0017.N1	13-MAY-2004 01:44:32	Bright	38.000	68	18Alp Cas	2.2250	4500.0	76	11508	No
GOM_TRA_1PNPDE20040513_014706_000001002026_00432_11508_0018.N1	13-MAY-2004 01:47:06	Bright	100.00	66	37Gam Cyg	2.2080	5900.0	200	11508	No
GOM_TRA_1PNPDE20040513_015226_000001292026_00432_11508_0019.N1	13-MAY-2004 01:52:26	Twilight	129.00	92	53Eps Cyg	2.5000	4500.0	258	11508	No
GOM_TRA_1PNPDE20040513_015654_000000462026_00432_11508_0020.N1	13-MAY-2004 01:56:54	Twilight	45.500	140	88Gam Peg	2.8340	26000.	91	11508	No
GOM_TRA_1PNPDE20040513_015825_000000542026_00432_11508_0021.N1	13-MAY-2004 01:58:25	Twilight	53.500	90	54Alp Peg	2.4870	11000.	107	11508	No
GOM_TRA_1PNPDE20040513_020538_000000482026_00432_11508_0022.N1	13-MAY-2004 02:05:38	Dark	47.500	52	16Bet Cet	2.0370	4500.0	95	11508	No
GOM_TRA_1PNPDE20040513_021227_000000462026_00432_11508_0023.N1	13-MAY-2004 02:12:27	Dark	45.500	84	Alp Phe	2.3970	4500.0	91	11508	No
GOM_TRA_1PNPDE20040513_021619_000000492026_00432_11508_0024.N1	13-MAY-2004 02:16:19	Dark	48.500	63	Bet Gru	2.1500	2800.0	97	11508	No
GOM_TRA_1PNPDE20040513_021743_000000462026_00432_11508_0025.N1	13-MAY-2004 02:17:43	Dark	45.500	31	Alp Gru	1.7340	15200.	91	11508	No
GOM_TRA_1PNPDE20040513_022147_000000392026_00433_11509_0026.N1	13-MAY-2004 02:21:47	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	11509	No
GOM_TRA_1PNPDE20040513_022319_000000442026_00433_11509_0027.N1	13-MAY-2004 02:23:19	Dark	44.000	45	Alp Pav	1.9400	26000.	88	11509	No
GOM_TRA_1PNPDE20040513_022851_000000462026_00433_11509_0028.N1	13-MAY-2004 02:28:51	Dark	46.000	43	Alp TrA	1.9100	4250.0	92	11509	No
GOM_TRA_1PNPDE20040513_023020_000000412026_00433_11509_0029.N1	13-MAY-2004 02:30:20	Twilight	40.500	145	Gam TrA	2.8720	10600.	81	11509	No
GOM_TRA_1PNPDE20040513_023250_000000472026_00433_11509_0030.N1	13-MAY-2004 02:32:50	Twilight	47.000	4	Alp1Cen	-0.010000	5800.0	94	11509	No
GOM_TRA_1PNPDE20040513_023456_000000552026_00433_11509_0031.N1	13-MAY-2004 02:34:56	Bright	55.000	25	35Lam Sco	1.6200	28000.	110	11509	No

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



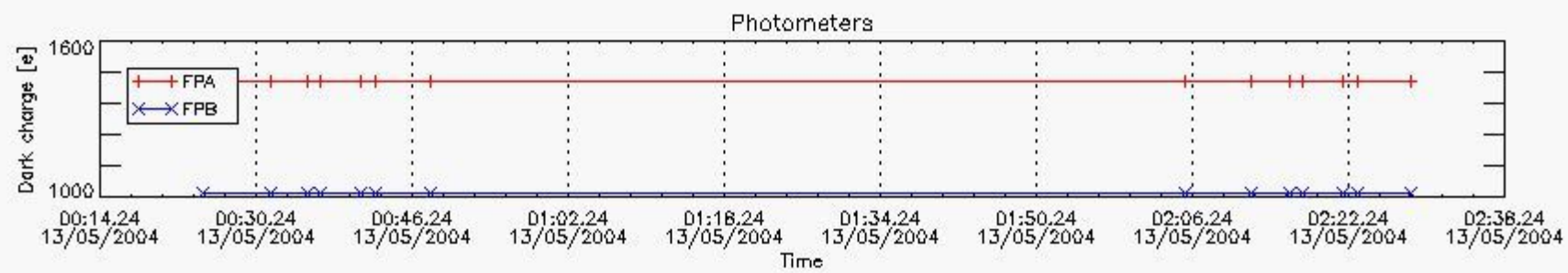
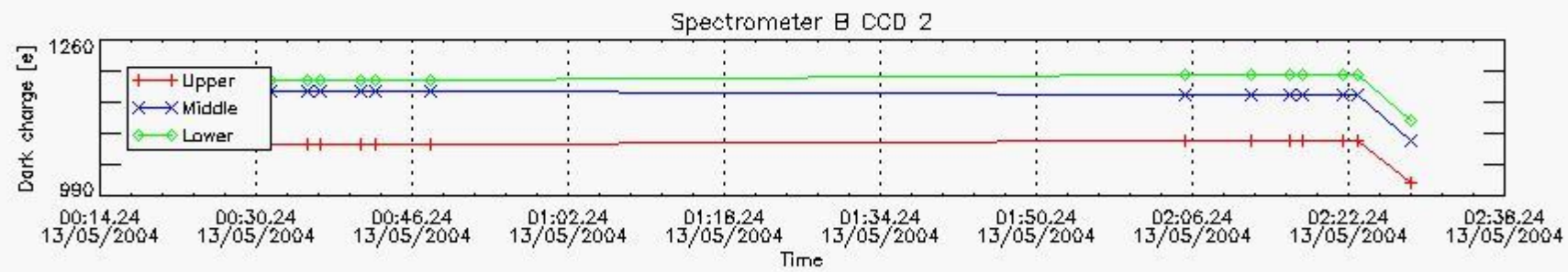
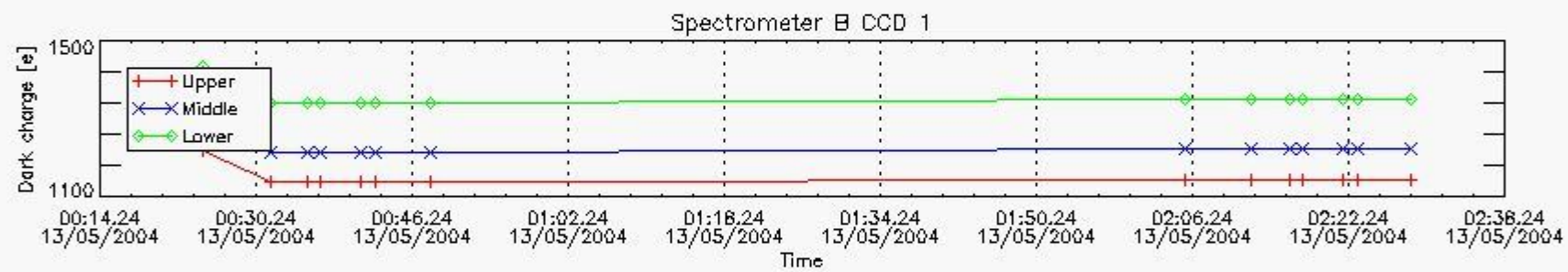
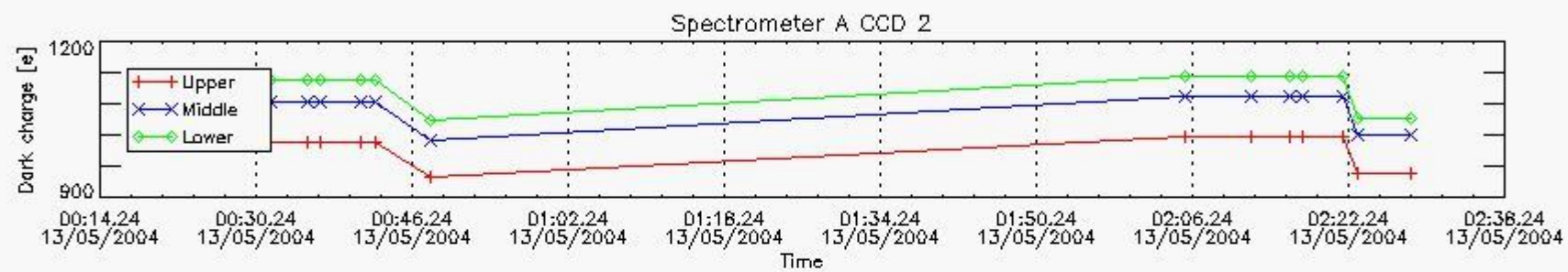
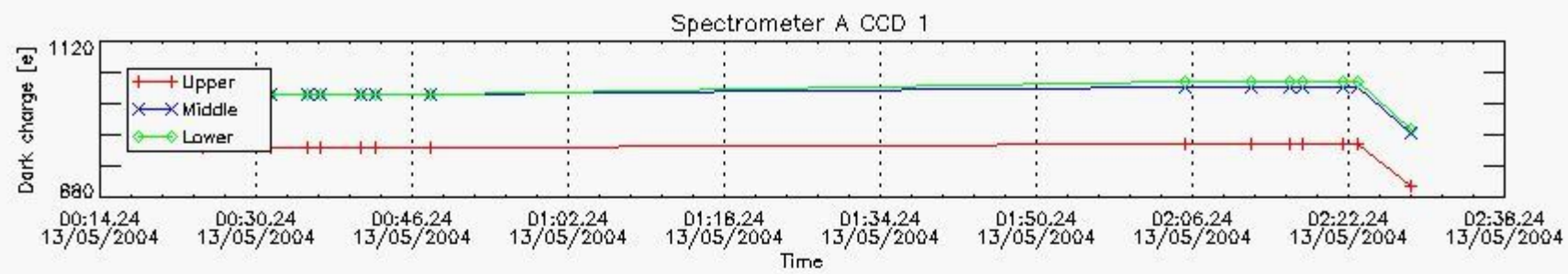
4. Overview of dark signal processing per product

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



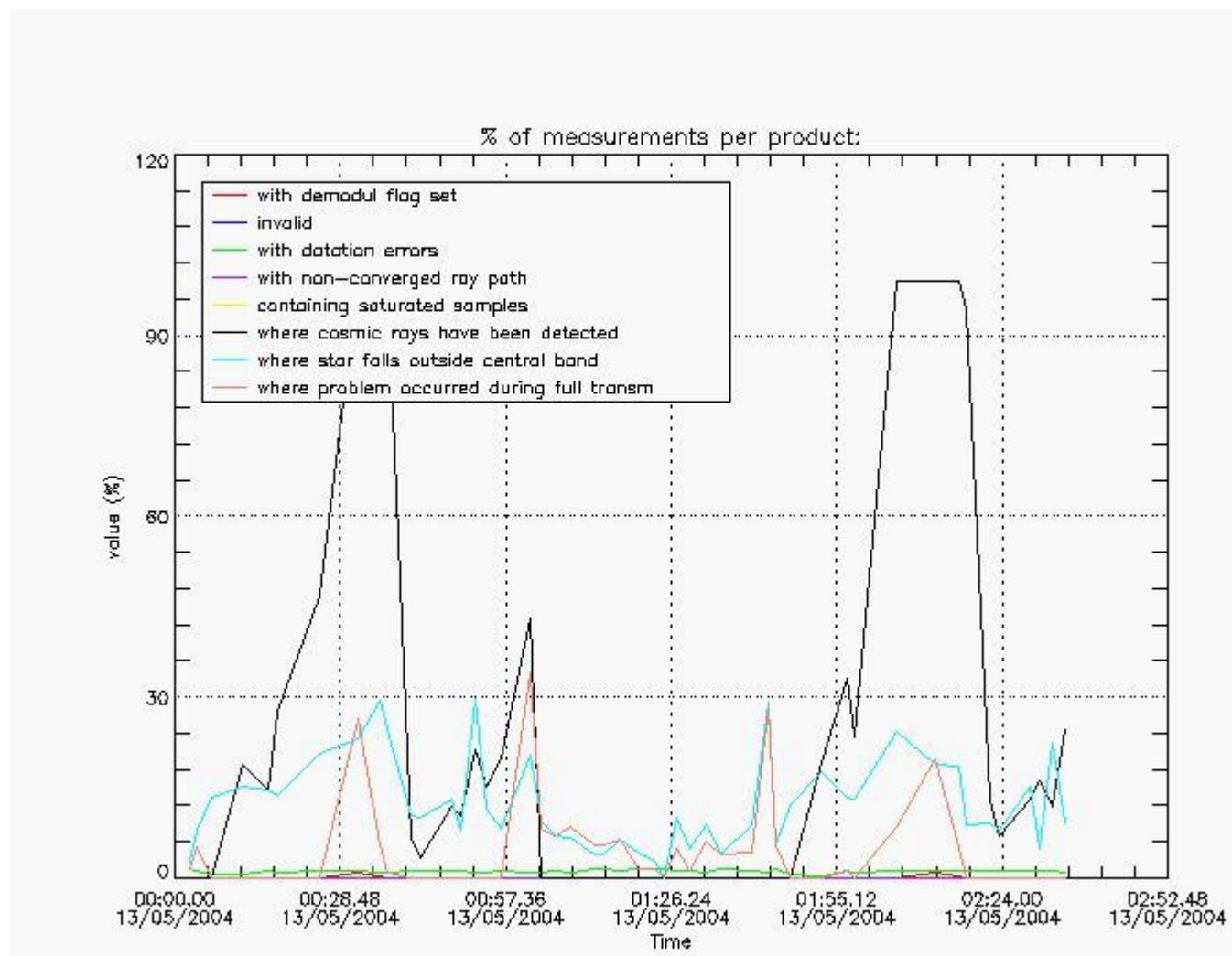
5. Demodulation flag and quality information monitoring

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:

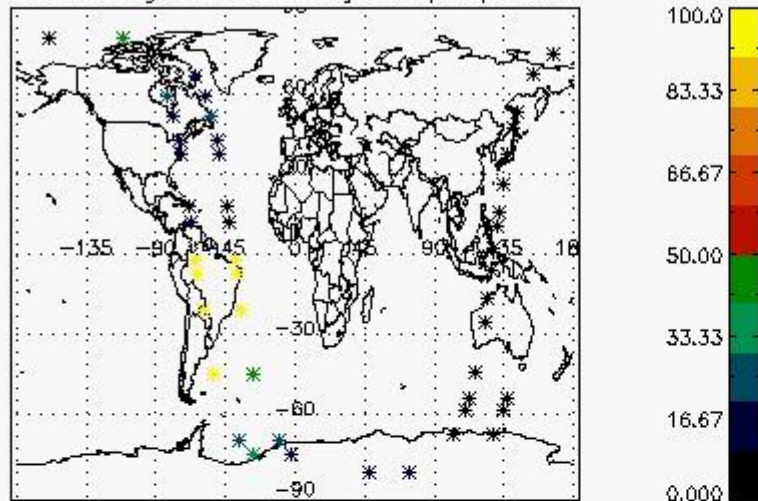
At least one measurement with demodulation flag set:	18.7500 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

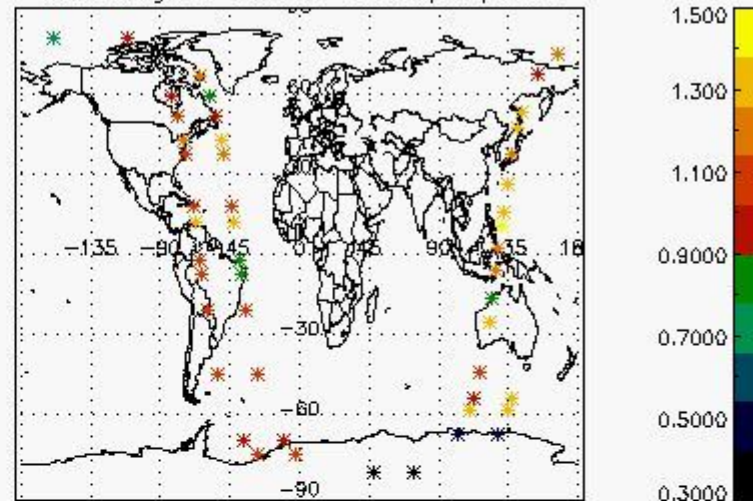


5.3 Plot quality information per product (world map)

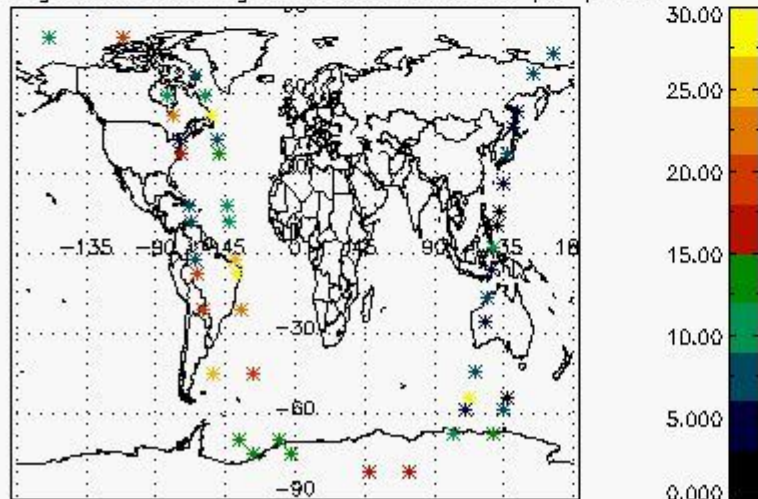
Percentage of cosmic ray hits per profile



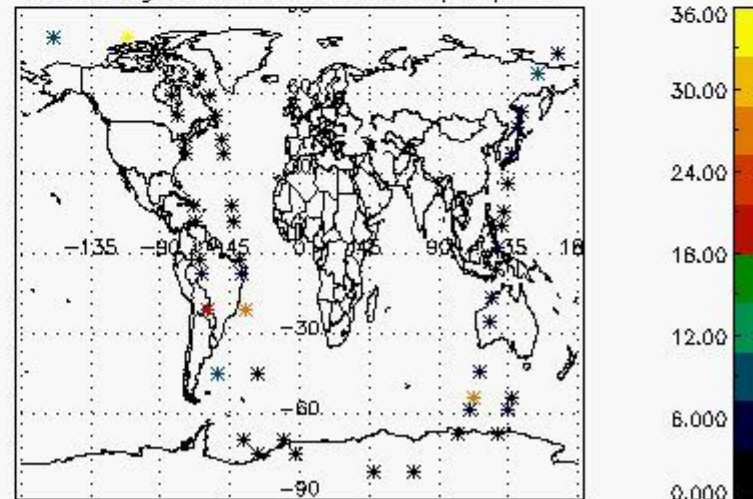
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



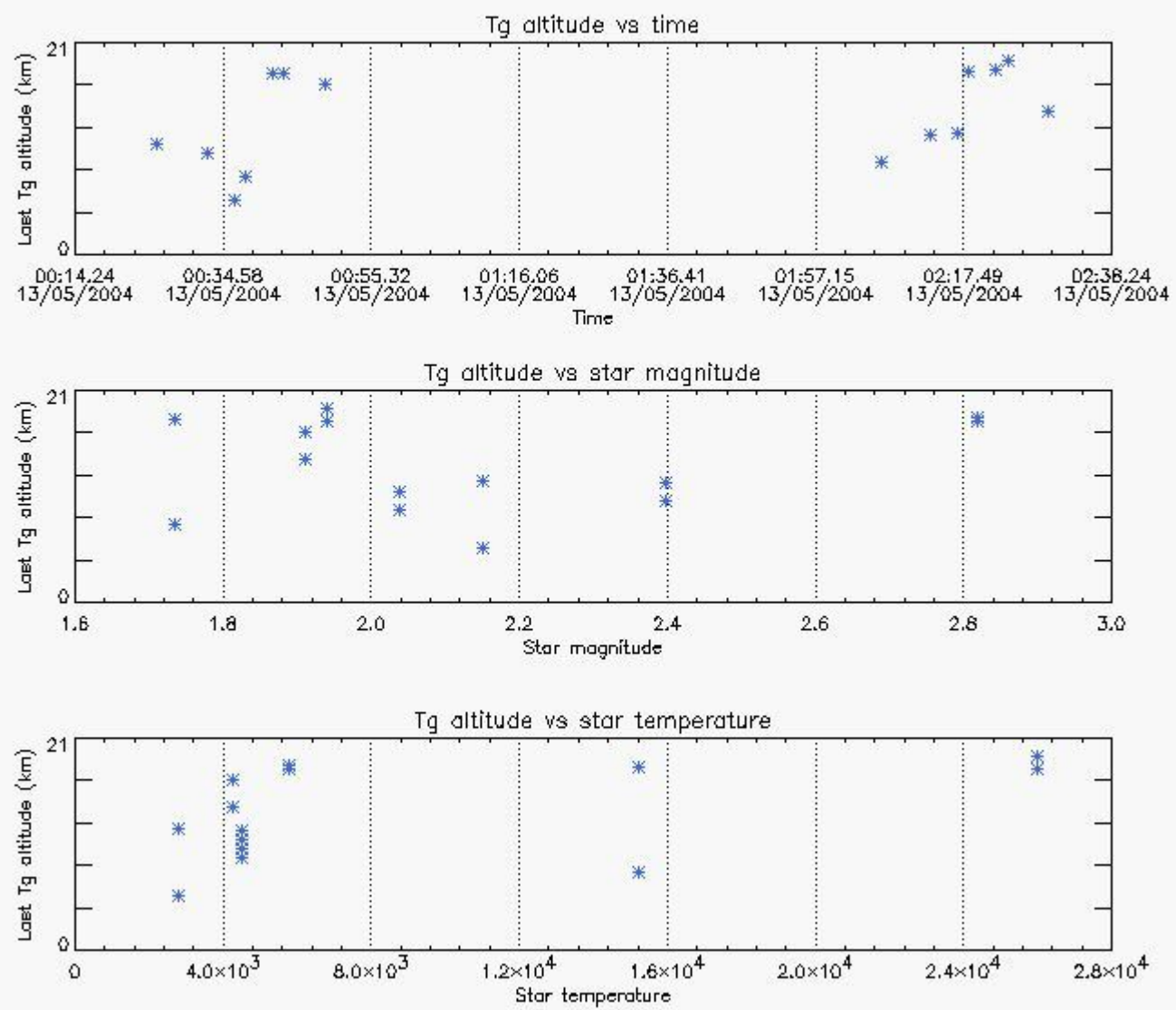
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.562	19.451	13.850
St. deviation:	4.5344	4.5022	4.3987
Maximum:	19.188	27.473	20.816
Minimum:	5.4651	6.8050	5.1330
Number of data:	14.000	24.000	10.000

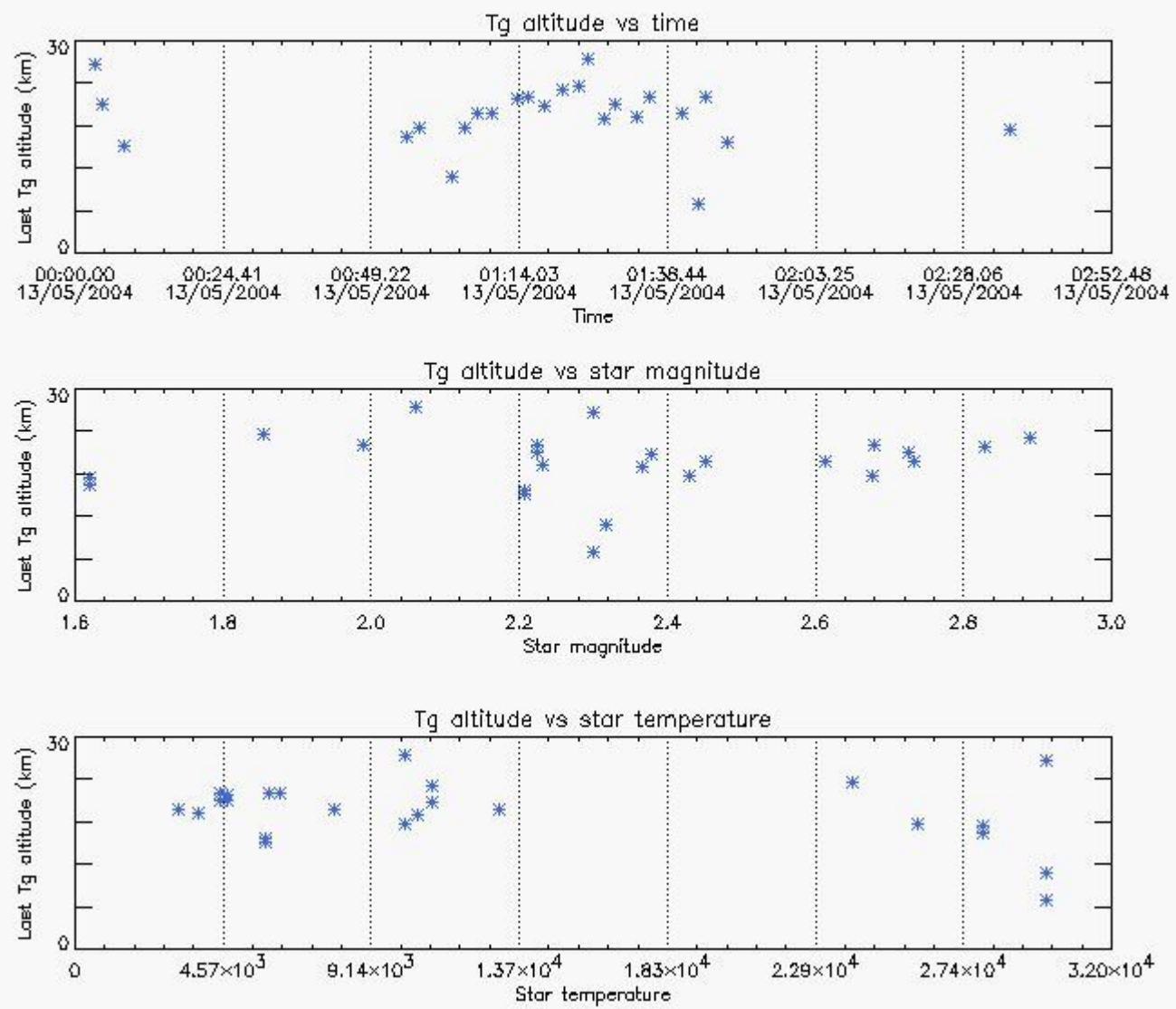
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



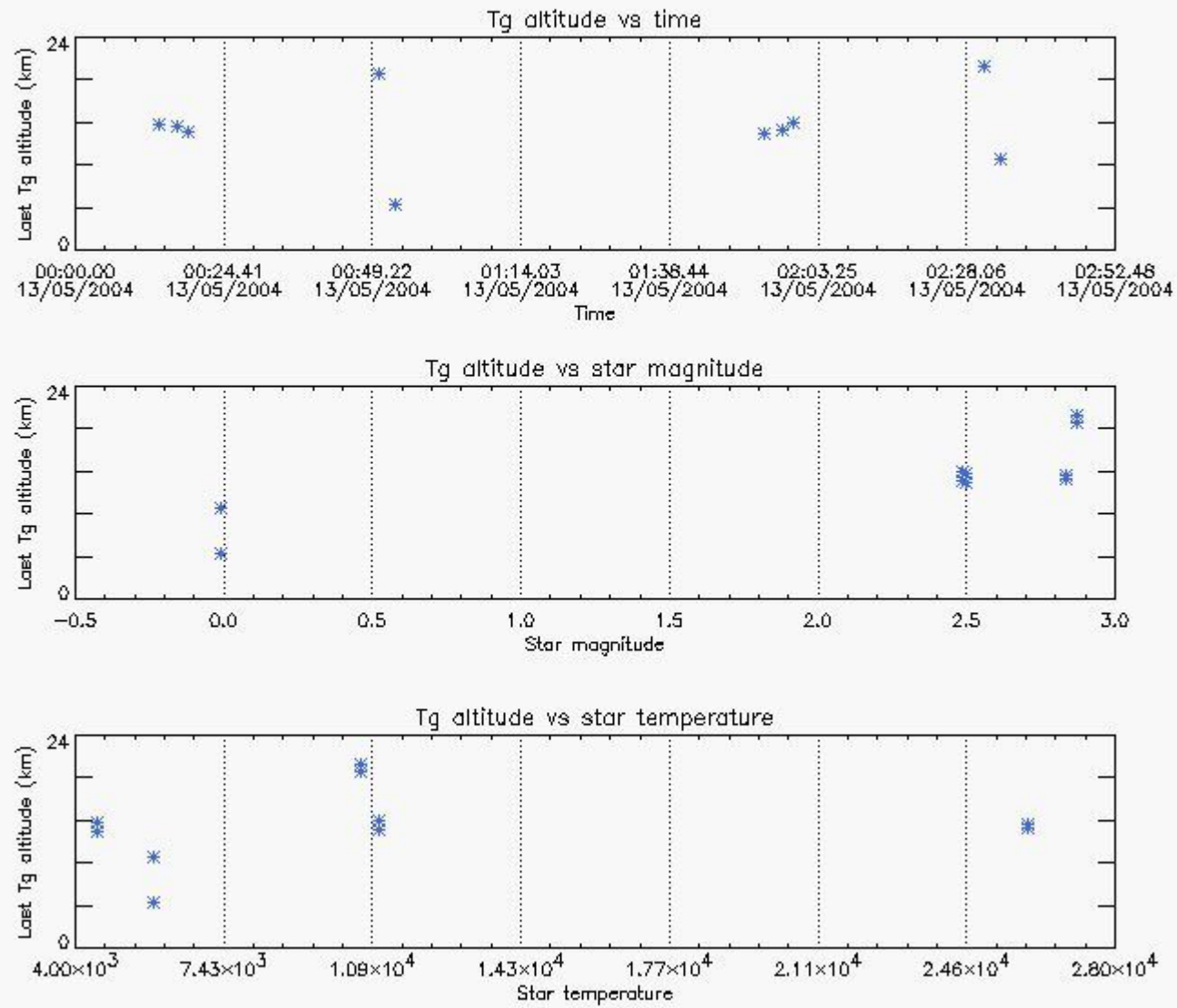
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

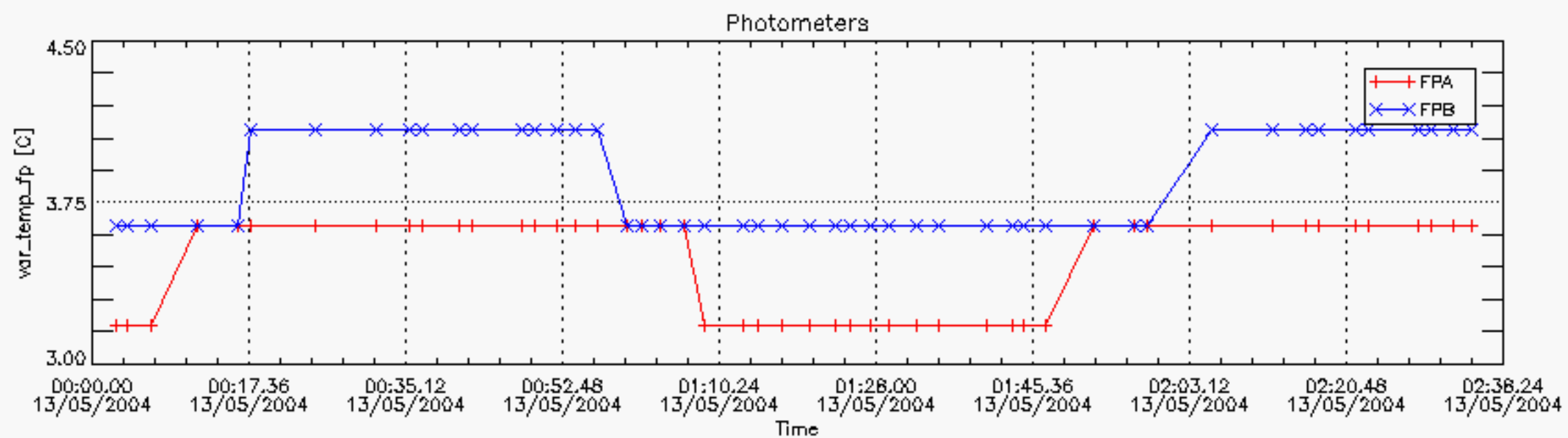
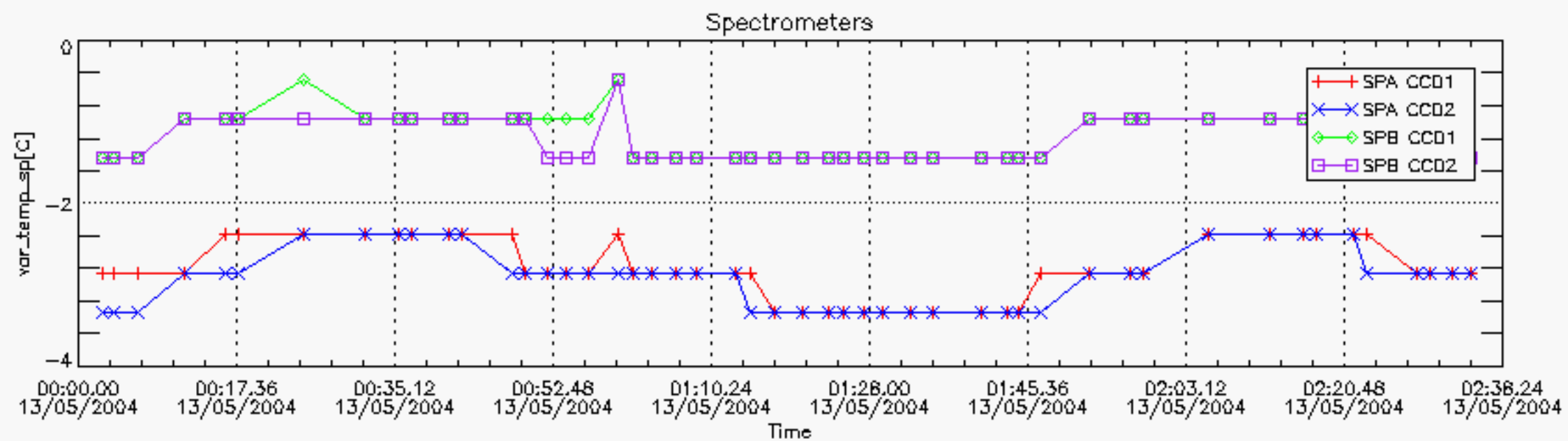
Tangent altitude at which the star is lost

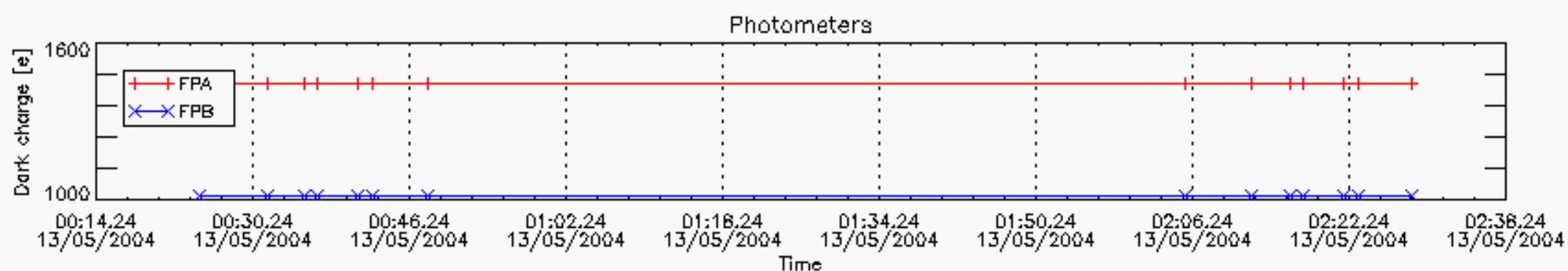
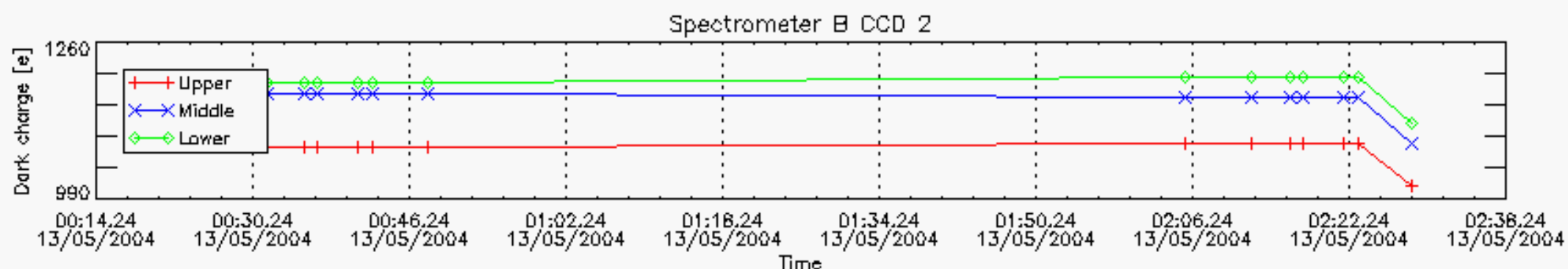
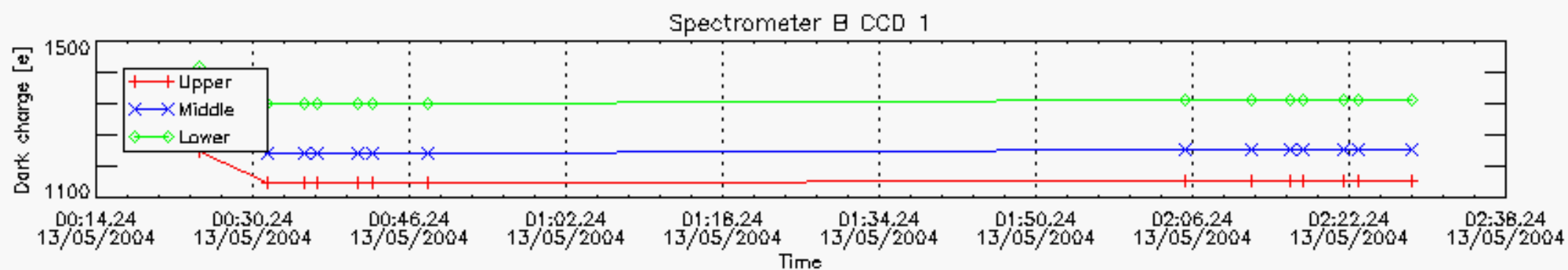
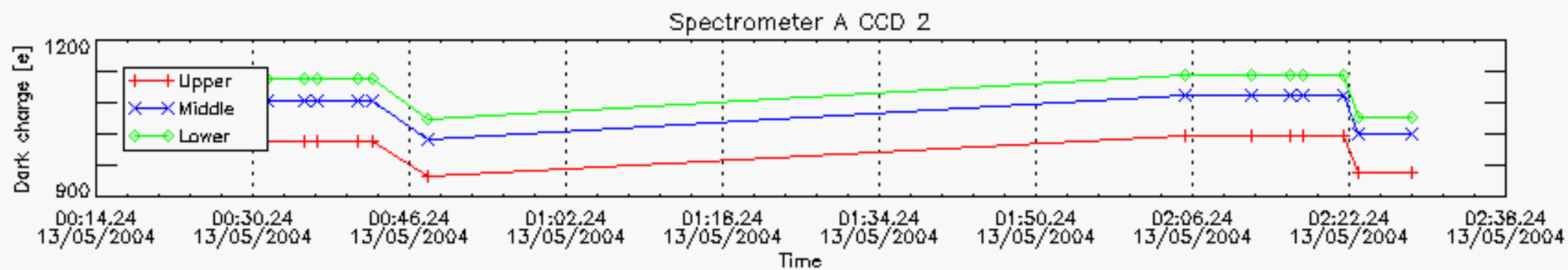
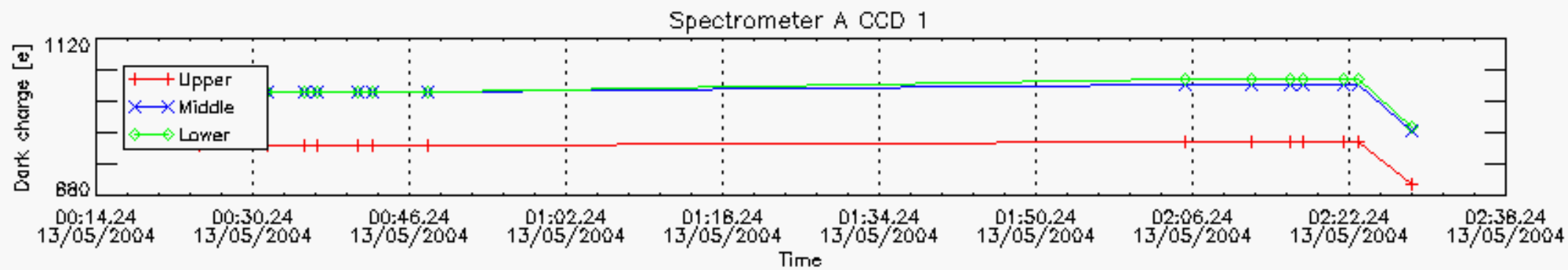


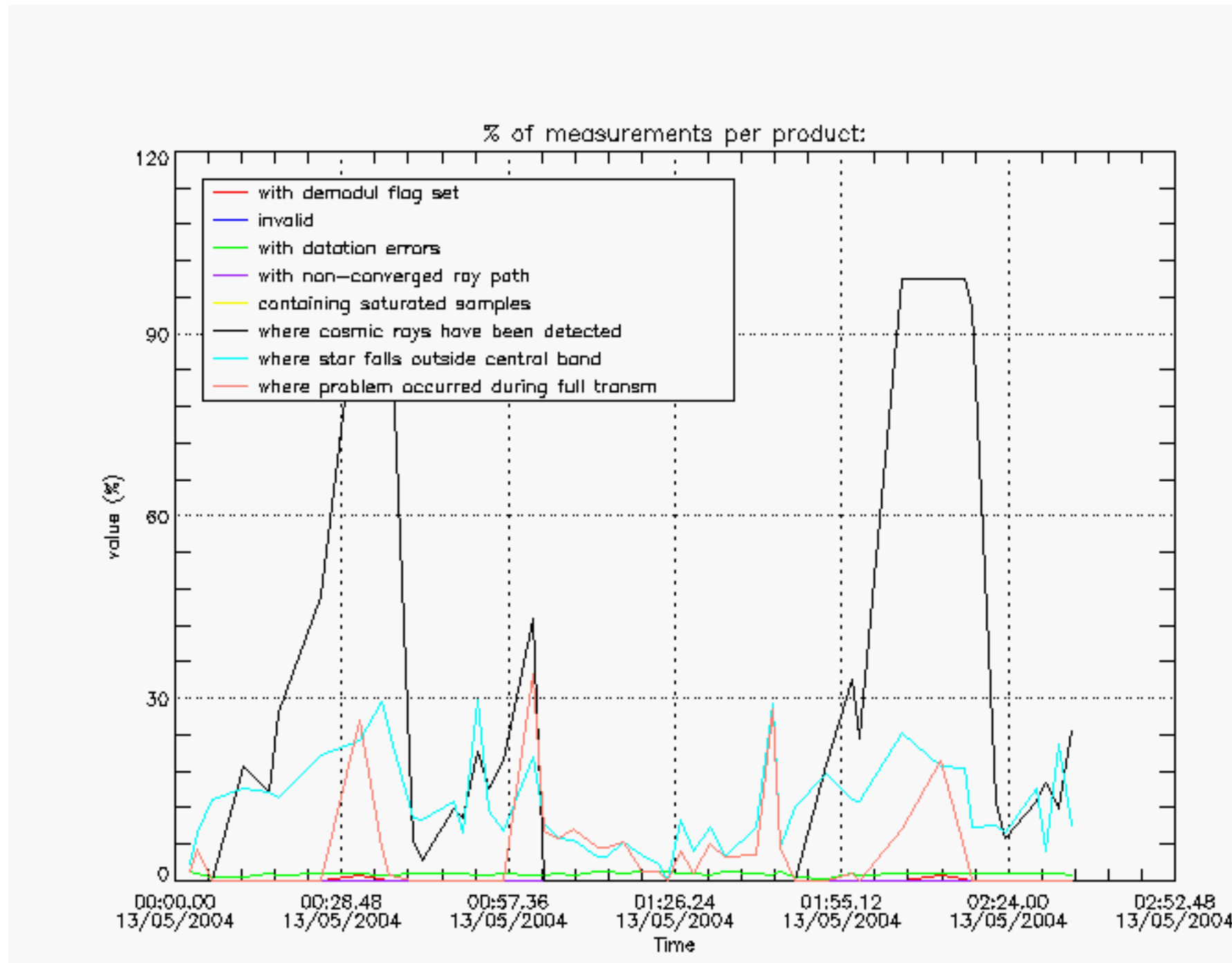
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

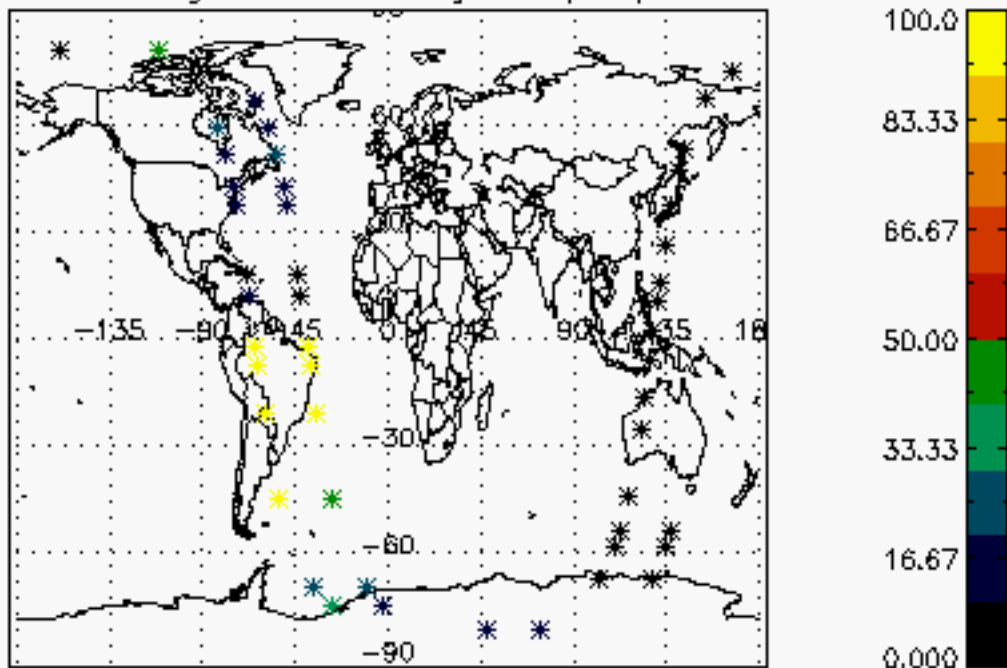
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.3	1445.8	1461.6	1448.2
St. deviation:	4.4725	5.4812	7.0529	7.9773
Maximum:	1579.0	1525.0	1536.0	1499.0
Minimum:	1447.0	1437.0	1446.0	1435.0
Number of data:	16600.	16600.	30800.	30800.



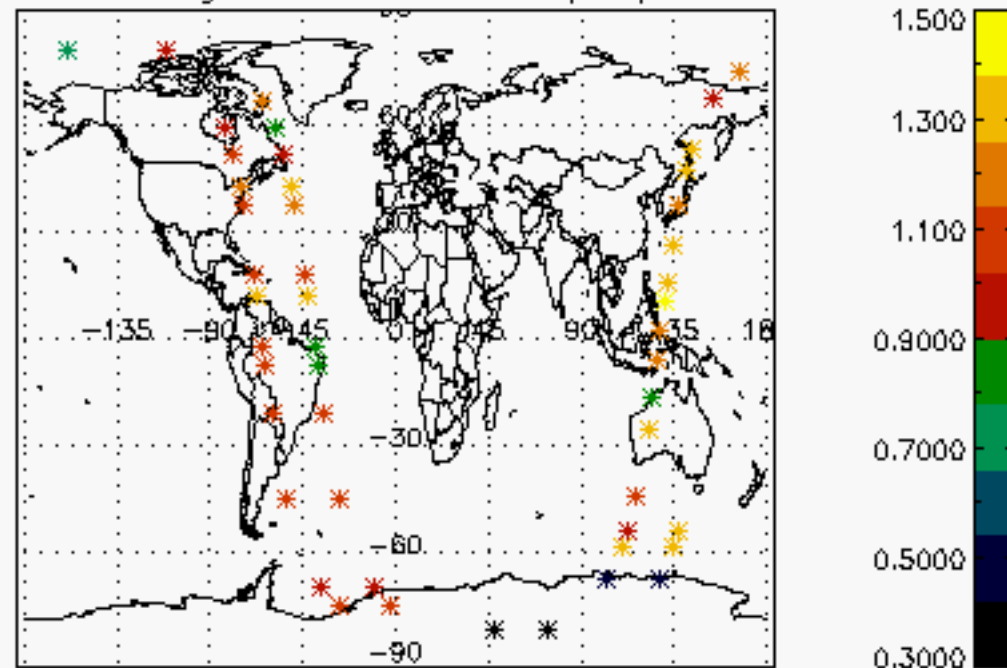




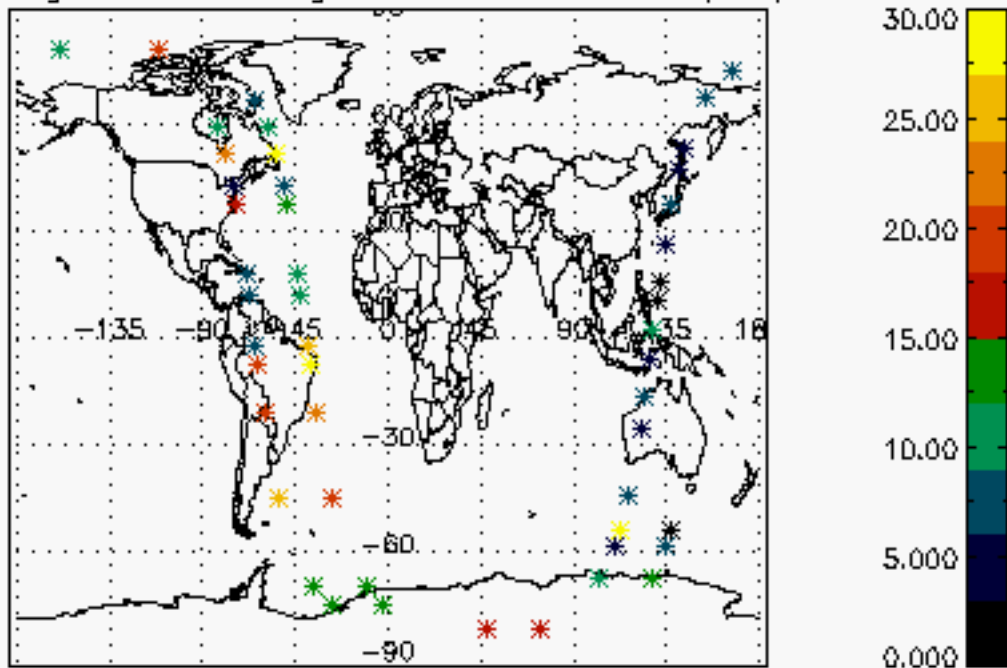
Percentage of cosmic ray hits per profile



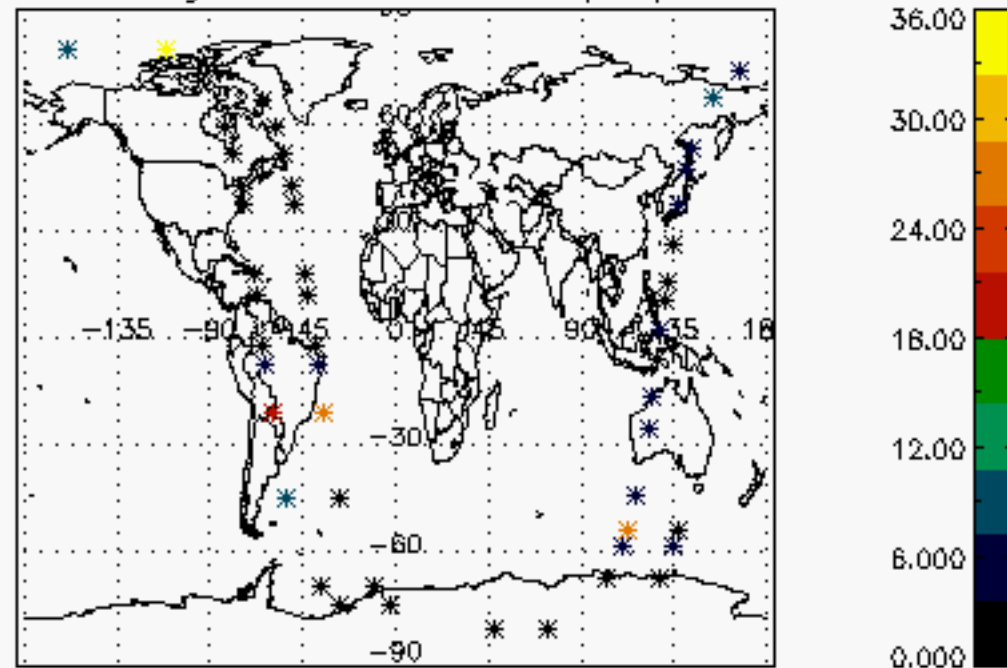
Percentage of datation errors per profile



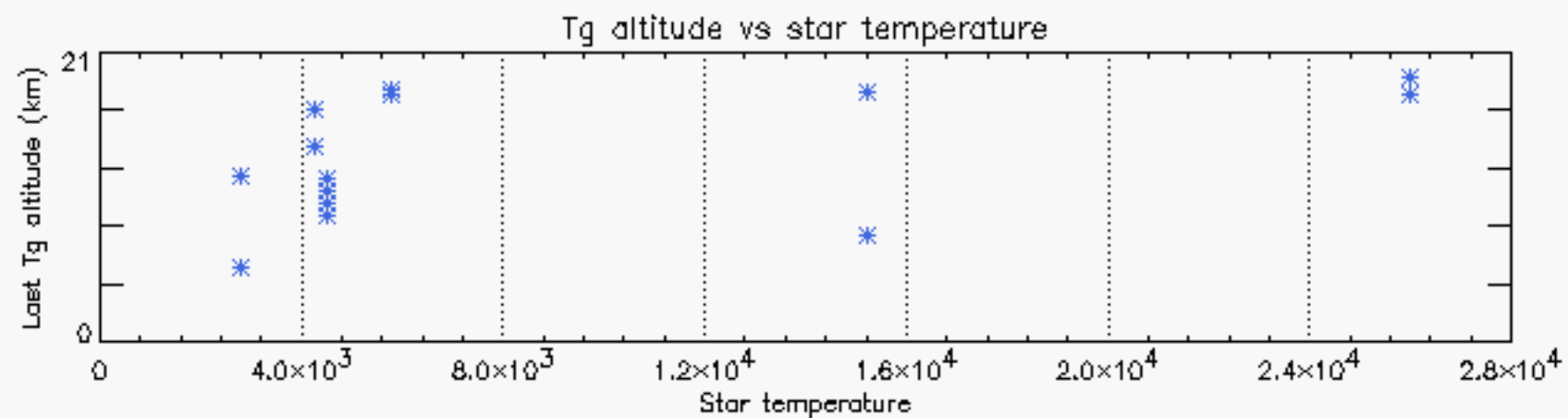
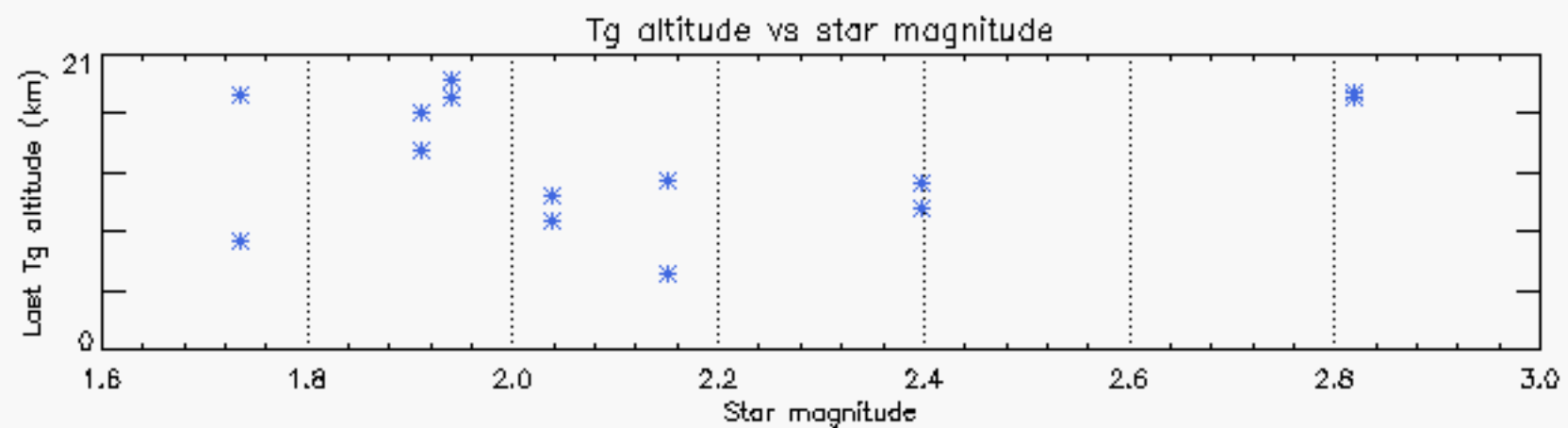
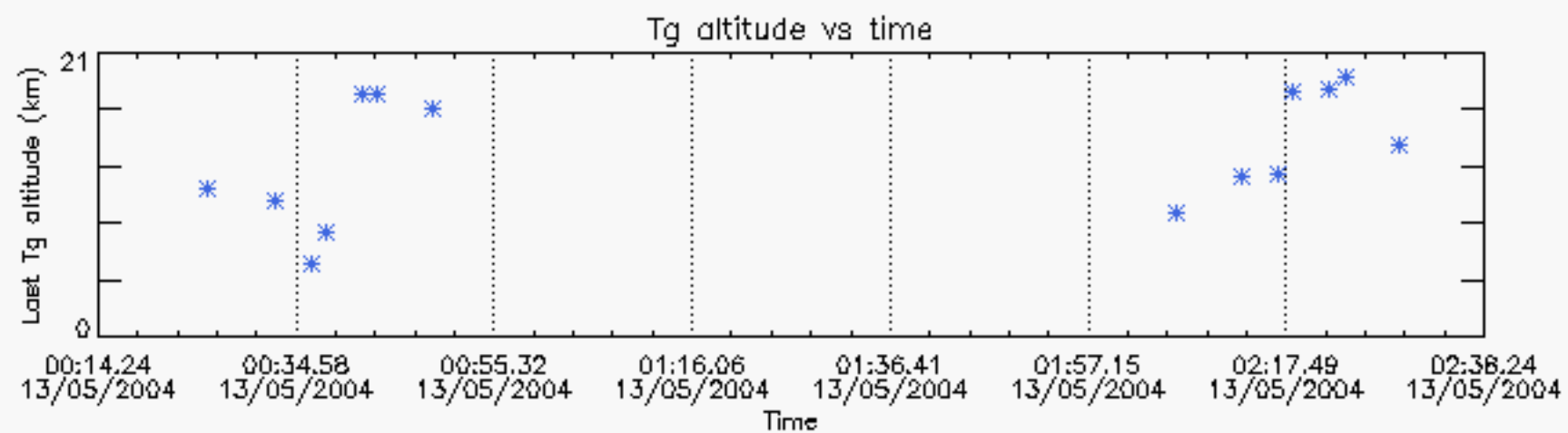
Percentage of star falling outside central band per profile



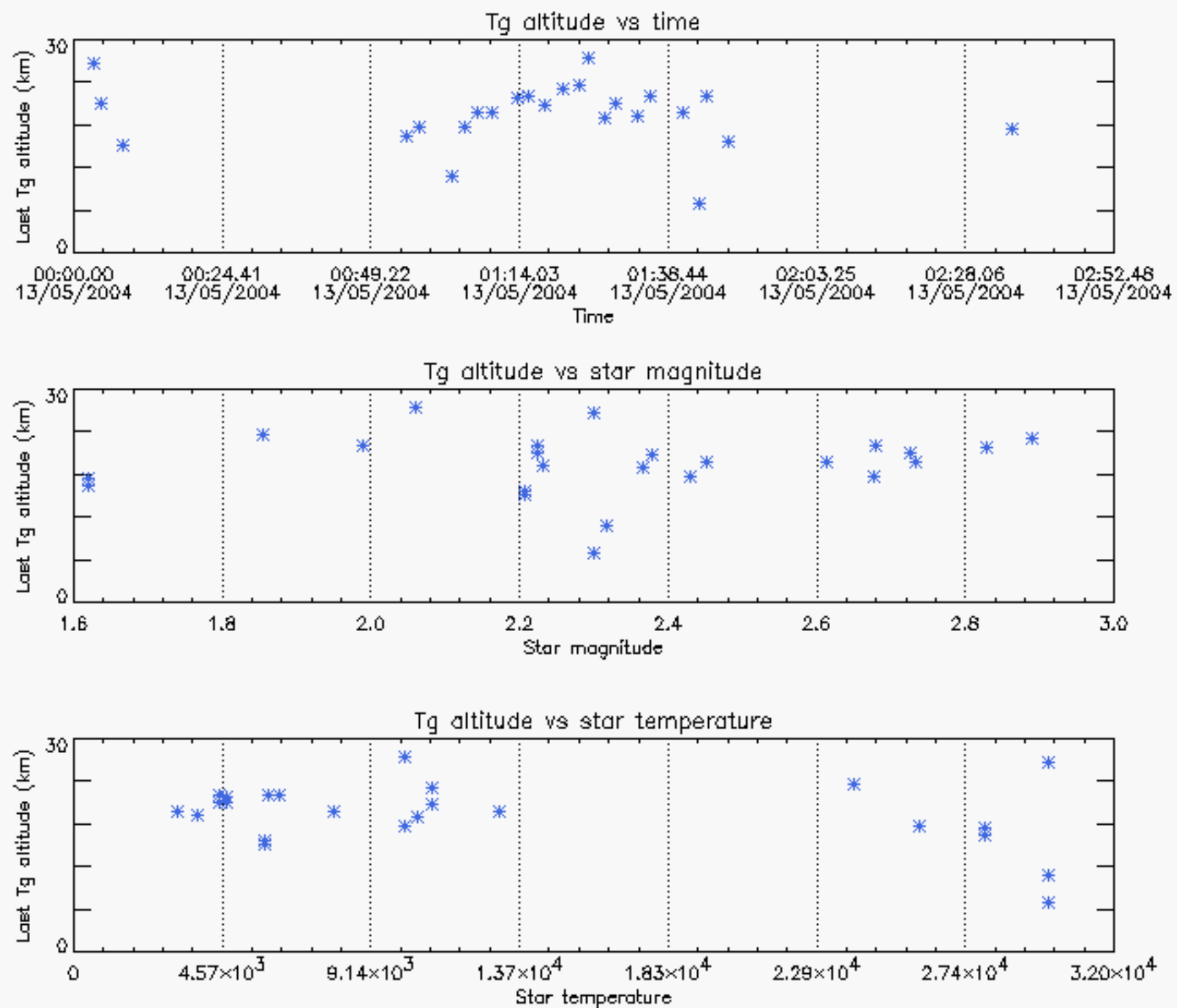
Percentage of saturation errors per profile



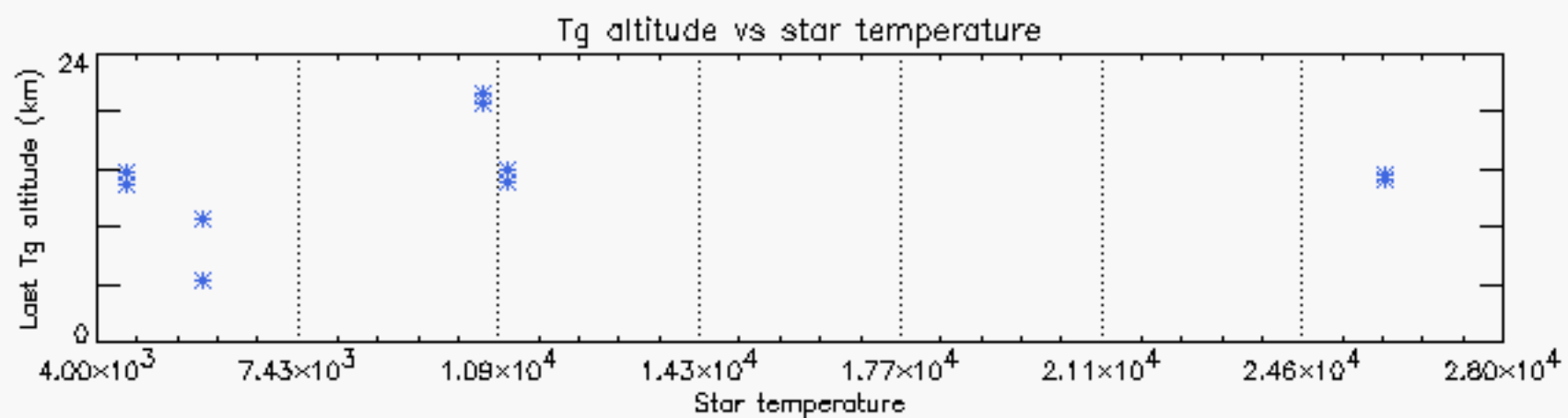
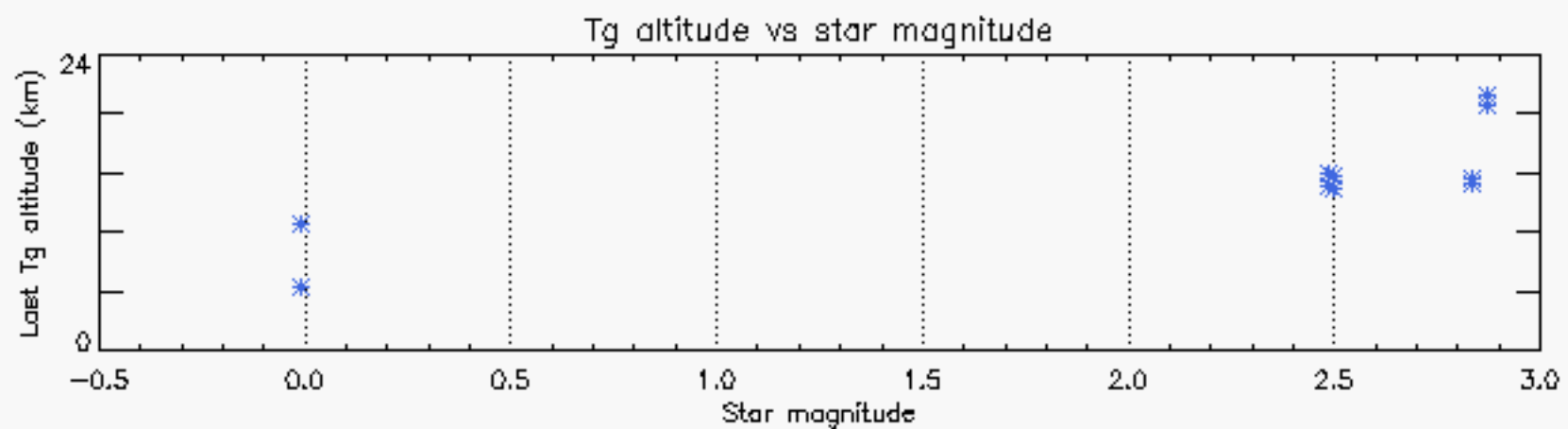
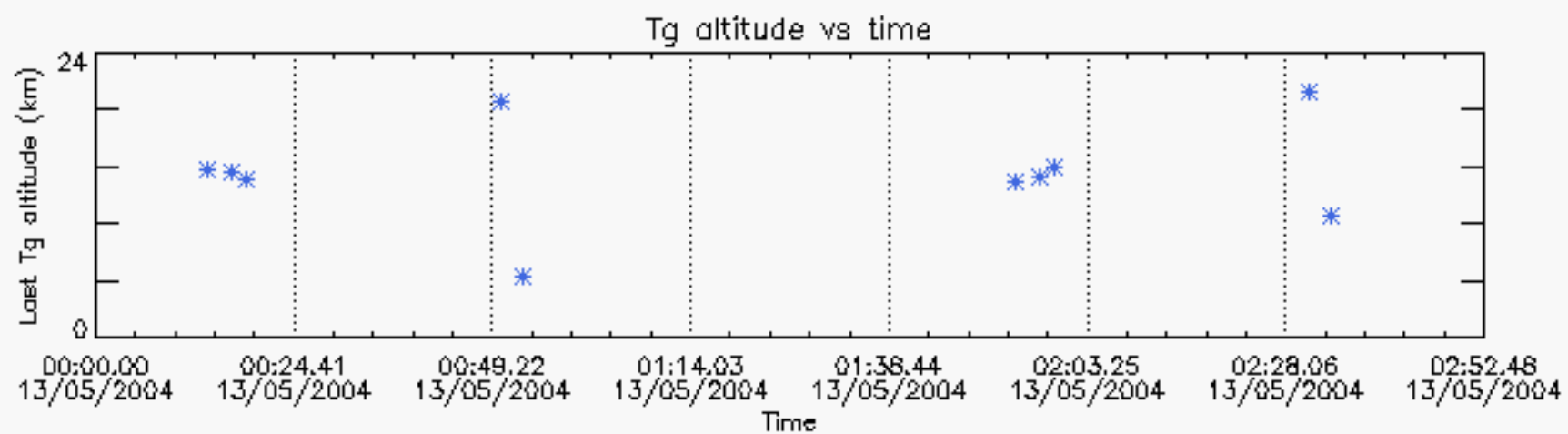
Tangent altitude at which the star is lost



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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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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33; 1215.0; 24-MAY-2004 15:17:25; Dark ; 54.0; 75; 26Eps Sco ; 2.29; 4250;occ; 108; 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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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
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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
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18;	-2101.9;	24-MAY-2004	17:43:20;	Bright	;	37.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	74;	0;	11675
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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
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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
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