

GOMOS Daily Report 12-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	13MAY2004 03:43:24
Data source version	GOMOS/4.02
Start time of products	12-MAY-2004 (12MAY2004 00:00:00)
Stop time of products	13-MAY-2004 (13MAY2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

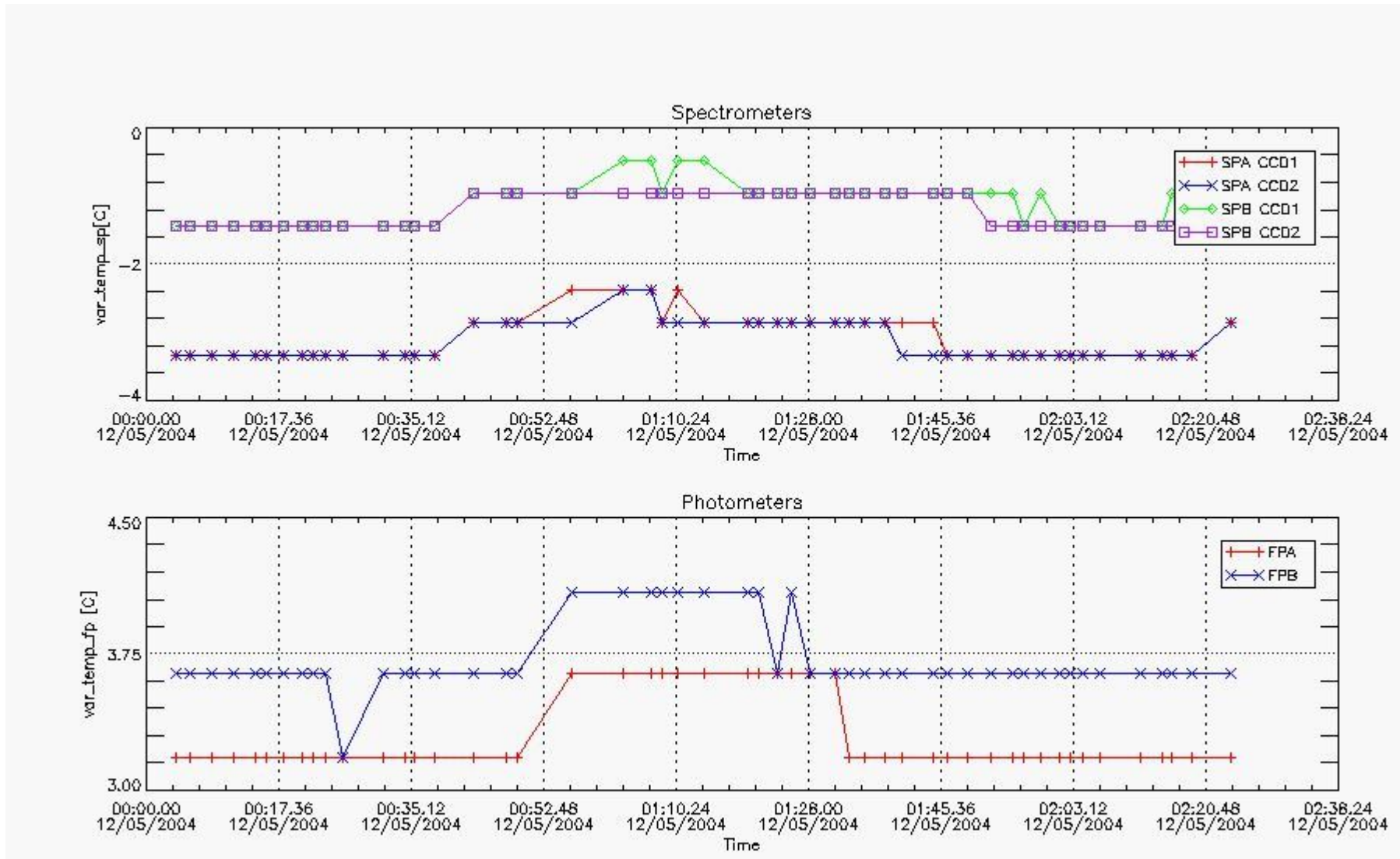
2. Summary of products arrived in PCF

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_1PNPDE20040512_000359_000000382026_00417_11493_0005.N1	12-MAY-2004 00:03:59	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	11493	No
GOM_TRA_1PNPDE20040512_000543_000000372026_00417_11493_0006.N1	12-MAY-2004 00:05:43	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	11493	No
GOM_TRA_1PNPDE20040512_000837_000000392026_00417_11493_0007.N1	12-MAY-2004 00:08:37	Bright	39.000	83		2.3780	11000.	78	11493	No
GOM_TRA_1PNPDE20040512_001134_000000362026_00417_11493_0008.N1	12-MAY-2004 00:11:34	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	11493	No
GOM_TRA_1PNPDE20040512_001430_000000392026_00417_11493_0009.N1	12-MAY-2004 00:14:30	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	11493	No
GOM_TRA_1PNPDE20040512_001602_000000382026_00417_11493_0010.N1	12-MAY-2004 00:16:02	Bright	38.000	55	79Zet UMa	2.0600	10200.	76	11493	No
GOM_TRA_1PNPDE20040512_001816_000000382026_00417_11493_0011.N1	12-MAY-2004 00:18:16	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	11493	No
GOM_TRA_1PNPDE20040512_002041_000000442026_00417_11493_0012.N1	12-MAY-2004 00:20:41	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	11493	No
GOM_TRA_1PNPDE20040512_002212_000000502026_00417_11493_0013.N1	12-MAY-2004 00:22:12	Bright	49.500	130	23Bet Dra	2.7990	5800.0	99	11493	No
GOM_TRA_1PNPDE20040512_002349_000000562026_00417_11493_0014.N1	12-MAY-2004 00:23:49	Bright	55.500	69	33Gam Dra	2.2310	3800.0	111	11493	No
GOM_TRA_1PNPDE20040512_002608_000000362026_00417_11493_0015.N1	12-MAY-2004 00:26:08	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	11493	No
GOM_TRA_1PNPDE20040512_003134_000000462026_00417_11493_0016.N1	12-MAY-2004 00:31:34	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	11493	No
GOM_TRA_1PNPDE20040512_003418_000000392026_00417_11493_0017.N1	12-MAY-2004 00:34:18	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	11493	No
GOM_TRA_1PNPDE20040512_003533_000000382026_00417_11493_0018.N1	12-MAY-2004 00:35:33	Bright	38.000	68	18Alp Cas	2.2250	4500.0	76	11493	No
GOM_TRA_1PNPDE20040512_003818_000001042026_00417_11493_0019.N1	12-MAY-2004 00:38:18	Bright	104.00	66	37Gam Cyg	2.2080	5900.0	208	11493	No
GOM_TRA_1PNPDE20040512_004326_000001292026_00417_11493_0020.N1	12-MAY-2004 00:43:26	Twilight	129.00	92	53Eps Cyg	2.5000	4500.0	258	11493	No
GOM_TRA_1PNPDE20040512_004751_000000452026_00417_11493_0021.N1	12-MAY-2004 00:47:51	Twilight	44.500	140	88Gam Peg	2.8340	26000.	89	11493	No
GOM_TRA_1PNPDE20040512_004919_000000552026_00417_11493_0022.N1	12-MAY-2004 00:49:19	Twilight	55.000	90	54Alp Peg	2.4870	11000.	110	11493	No
GOM_TRA_1PNPDE20040512_005635_000000462026_00417_11493_0023.N1	12-MAY-2004 00:56:35	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	11493	No
GOM_TRA_1PNPDE20040512_010325_000000442026_00417_11493_0024.N1	12-MAY-2004 01:03:25	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	11493	No
GOM_TRA_1PNPDE20040512_010711_000000562026_00417_11493_0025.N1	12-MAY-2004 01:07:11	Dark	56.000	63	Bet Gru	2.1500	2800.0	112	11493	No
GOM_TRA_1PNPDE20040512_010834_000000542026_00417_11493_0026.N1	12-MAY-2004 01:08:34	Dark	53.500	31	Alp Gru	1.7340	15200.	107	11493	No
GOM_TRA_1PNPDE20040512_011034_000000412026_00418_11494_0027.N1	12-MAY-2004 01:10:34	Dark	41.000	148	Alp Tuc	2.8780	4100.0	82	11494	No
GOM_TRA_1PNPDE20040512_011408_000000442026_00418_11494_0028.N1	12-MAY-2004 01:14:08	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11494	No
GOM_TRA_1PNPDE20040512_011949_000000412026_00418_11494_0029.N1	12-MAY-2004 01:19:49	Dark	41.000	43	Alp TrA	1.9100	4250.0	82	11494	No
GOM_TRA_1PNPDE20040512_012119_000000402026_00418_11494_0030.N1	12-MAY-2004 01:21:19	Twilight	39.500	145	Gam TrA	2.8720	10600.	79	11494	No
GOM_TRA_1PNPDE20040512_012349_000000442026_00418_11494_0031.N1	12-MAY-2004 01:23:49	Twilight	43.500	4	Alp1Cen	-0.010000	5800.0	87	11494	No
GOM_TRA_1PNPDE20040512_012546_000000602026_00418_11494_0032.N1	12-MAY-2004 01:25:46	Bright	59.500	25	35Lam Sco	1.6200	28000.	119	11494	No
GOM_TRA_1PNPDE20040512_012818_000000572026_00418_11494_0033.N1	12-MAY-2004 01:28:18	Bright	57.000	75	26Eps Sco	2.2910	4250.0	114	11494	No
GOM_TRA_1PNPDE20040512_013131_000000642026_00418_11494_0034.N1	12-MAY-2004 01:31:31	Bright	63.500	16	21Alp Sco	1.0200	3000.0	127	11494	No
GOM_TRA_1PNPDE20040512_013321_000000552026_00418_11494_0000.N1	12-MAY-2004 01:33:21	Bright	54.500	80	7Del Sco	2.3160	30000.	109	11494	No
GOM_TRA_1PNPDE20040512_013527_000000722026_00418_11494_0001.N1	12-MAY-2004 01:35:27	Bright	71.500	86	35Eta Oph	2.4300	10200.	143	11494	No
GOM_TRA_1PNPDE20040512_013804_000000432026_00418_11494_0002.N1	12-MAY-2004 01:38:04	Bright	42.500	104	27Bet Lib	2.6140	13100.	85	11494	No
GOM_TRA_1PNPDE20040512_014027_000000562026_00418_11494_0003.N1	12-MAY-2004 01:40:27	Bright	56.000	120	1Del Oph	2.7340	3200.0	112	11494	No
GOM_TRA_1PNPDE20040512_014435_000000382026_00418_11494_0004.N1	12-MAY-2004 01:44:35	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	11494	No
GOM_TRA_1PNPDE20040512_014619_000000372026_00418_11494_0005.N1	12-MAY-2004 01:46:19	Bright	37.000	111	8Eta Boo	2.6800	6000.0	74	11494	No
GOM_TRA_1PNPDE20040512_014912_000000402026_00418_11494_0006.N1	12-MAY-2004 01:49:12	Bright	40.000	83		2.3780	11000.	80	11494	No
GOM_TRA_1PNPDE20040512_015210_000000372026_00418_11494_0007.N1	12-MAY-2004 01:52:10	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	11494	No
GOM_TRA_1PNPDE20040512_015505_000000382026_00418_11494_0008.N1	12-MAY-2004 01:55:05	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	11494	No
GOM_TRA_1PNPDE20040512_015638_000000352026_00418_11494_0009.N1	12-MAY-2004 01:56:38	Bright	35.000	55	79Zet UMa	2.0600	10200.	70	11494	No
GOM_TRA_1PNPDE20040512_015852_000000392026_00418_11494_0010.N1	12-MAY-2004 01:58:52	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	11494	No
GOM_TRA_1PNPDE20040512_020116_000000442026_00418_11494_0011.N1	12-MAY-2004 02:01:16	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	11494	No
GOM_TRA_1PNPDE20040512_020247_000000522026_00418_11494_0012.N1	12-MAY-2004 02:02:47	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	11494	No
GOM_TRA_1PNPDE20040512_020424_000000592026_00418_11494_0013.N1	12-MAY-2004 02:04:24	Bright	58.500	69	33Gam Dra	2.2310	3800.0	117	11494	No
GOM_TRA_1PNPDE20040512_020644_000000352026_00418_11494_0014.N1	12-MAY-2004 02:06:44	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	11494	No
GOM_TRA_1PNPDE20040512_021209_000000452026_00418_11494_0015.N1	12-MAY-2004 02:12:09	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	11494	No
GOM_TRA_1PNPDE20040512_021454_000000372026_00418_11494_0016.N1	12-MAY-2004 02:14:54	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	11494	No
GOM_TRA_1PNPDE20040512_021609_000000392026_00418_11494_0017.N1	12-MAY-2004 02:16:09	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	11494	No
GOM_TRA_1PNPDE20040512_021853_000000942026_00418_11494_0018.N1	12-MAY-2004 02:18:53	Bright	94.000	66	37Gam Cyg	2.2080	5900.0	188	11494	No

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



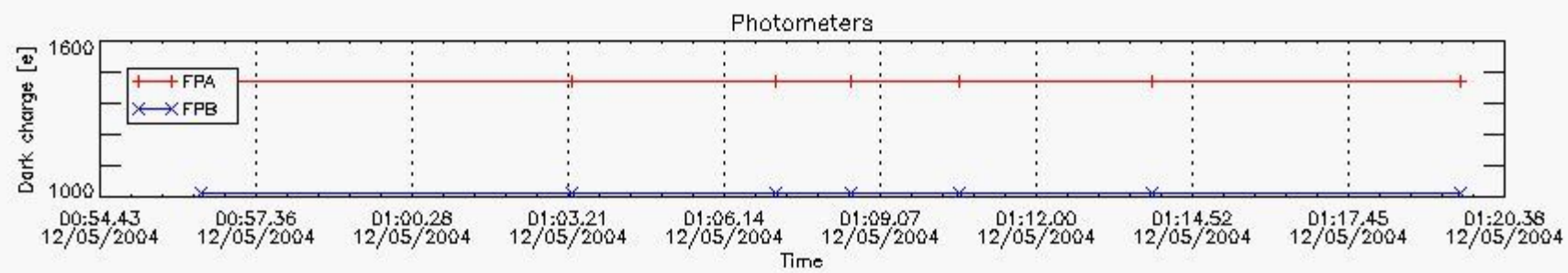
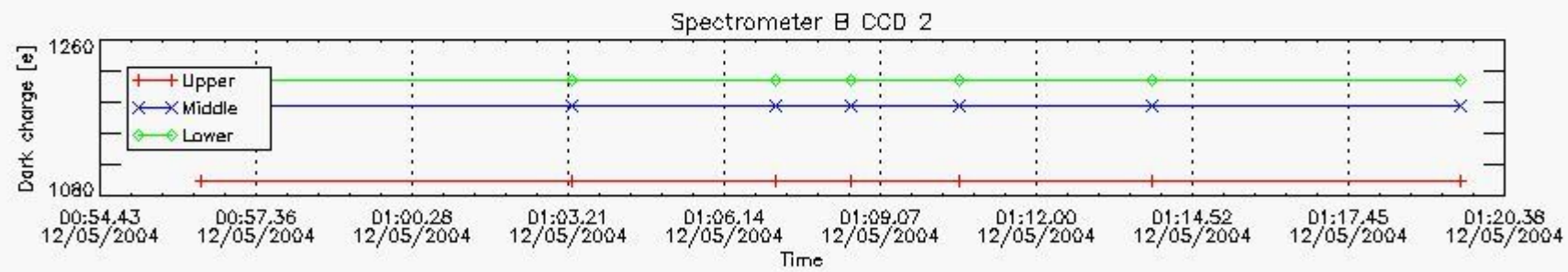
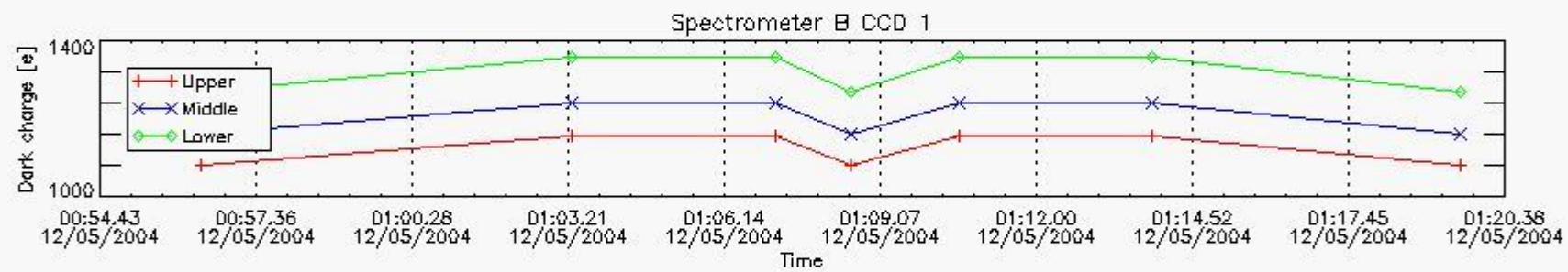
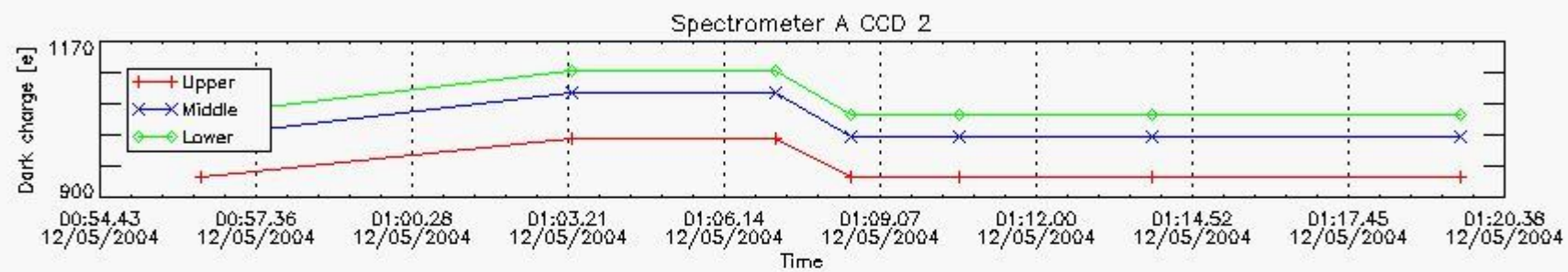
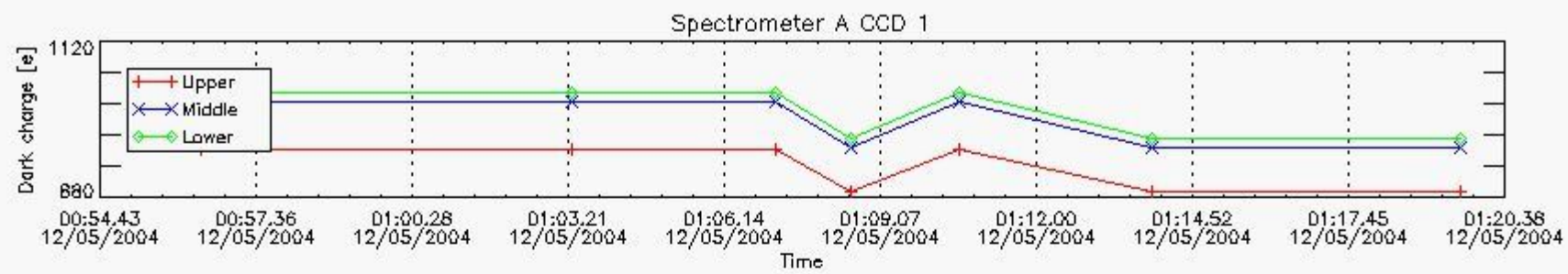
4. Overview of dark signal processing per product

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



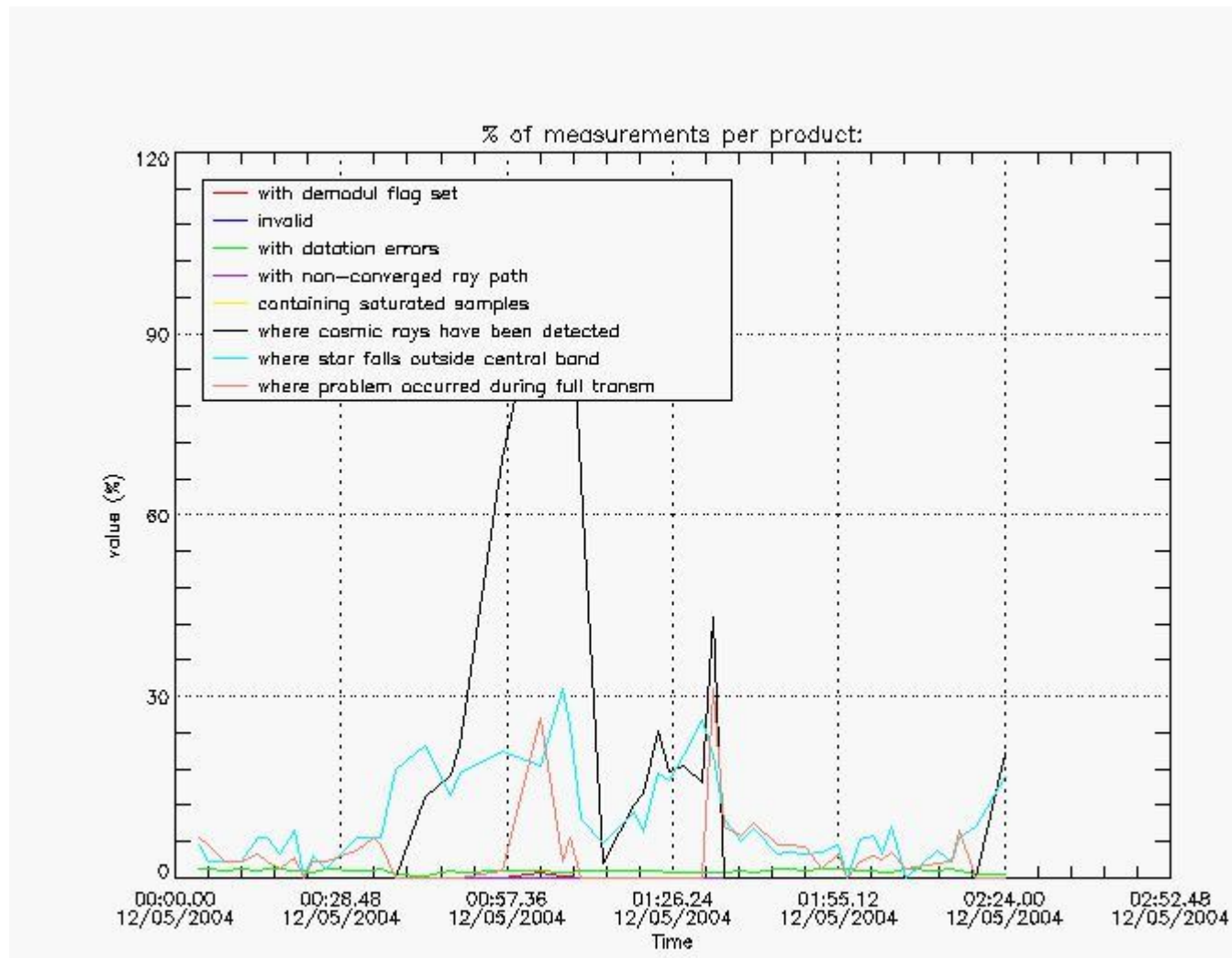
5. Demodulation flag and quality information monitoring

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.

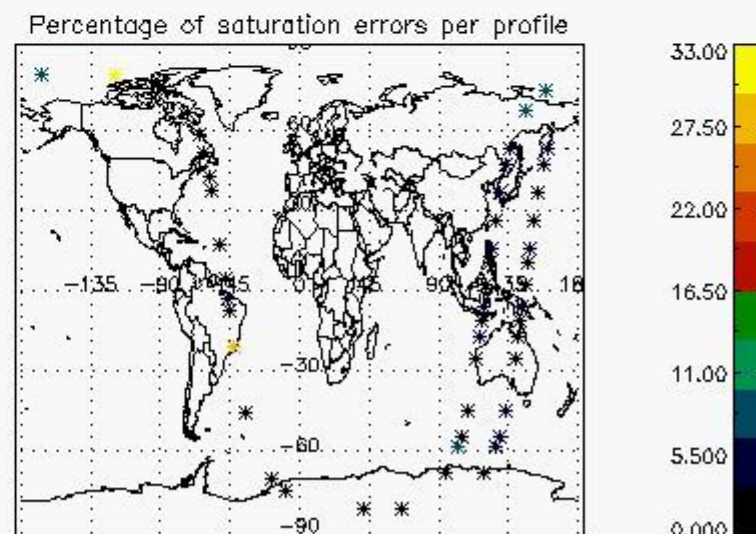
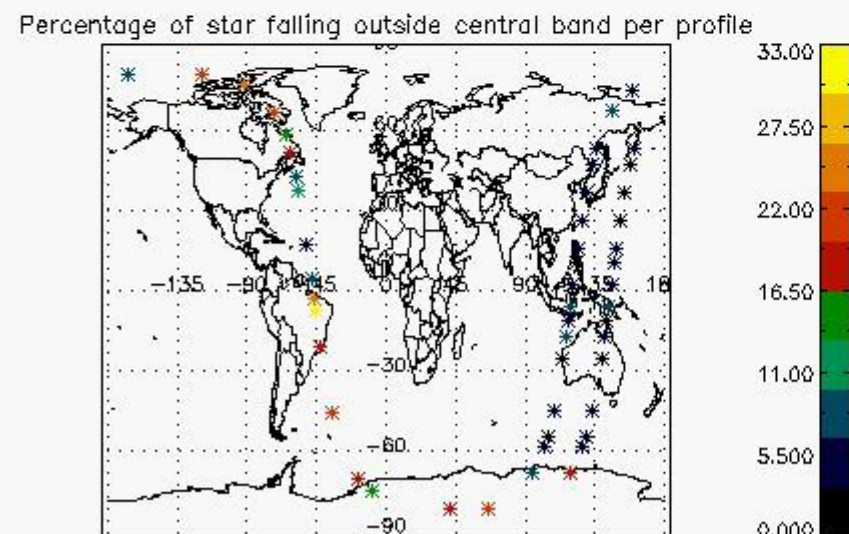
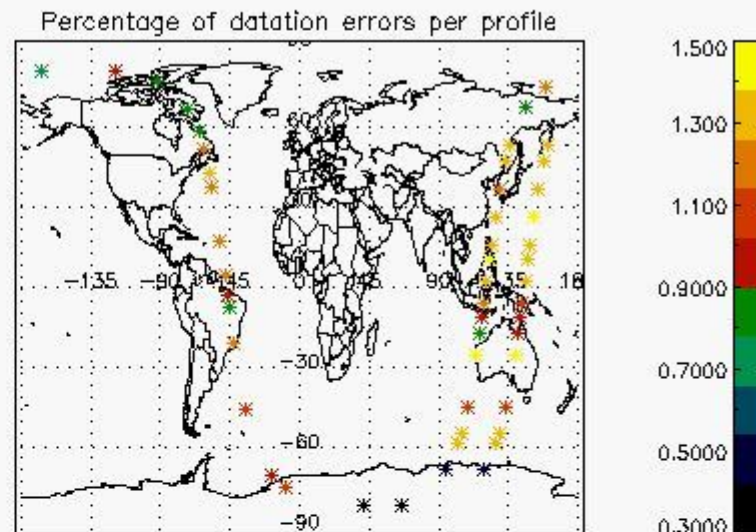
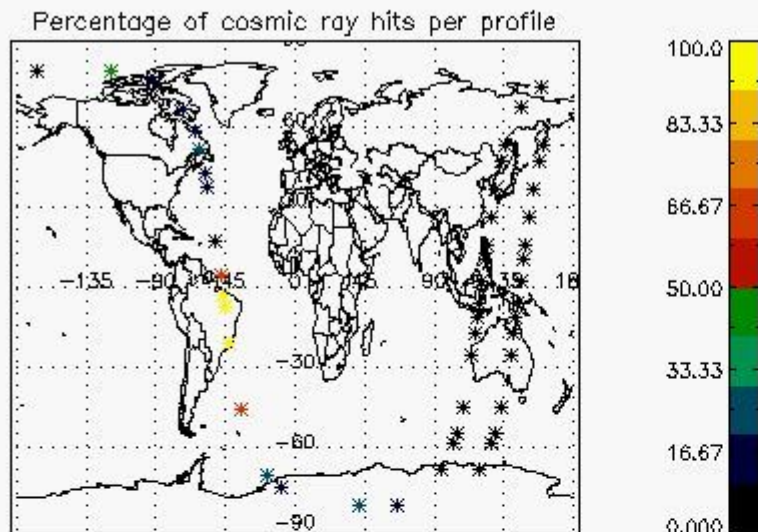
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



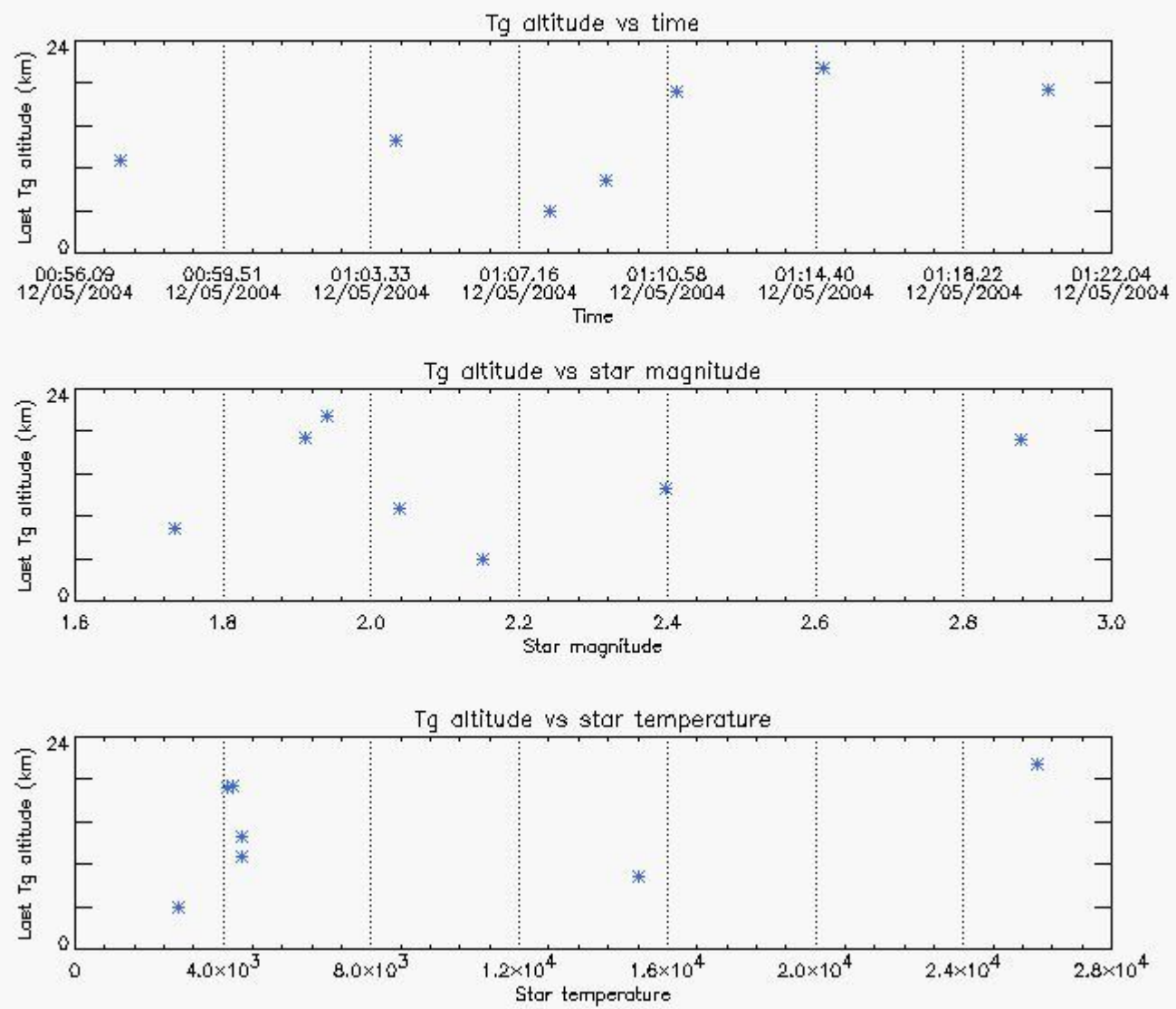
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.405	20.586	14.064
St. deviation:	6.0314	4.2129	2.8947
Maximum:	21.008	27.114	19.613
Minimum:	4.8092	8.7454	11.481
Number of data:	7.0000	37.000	6.0000

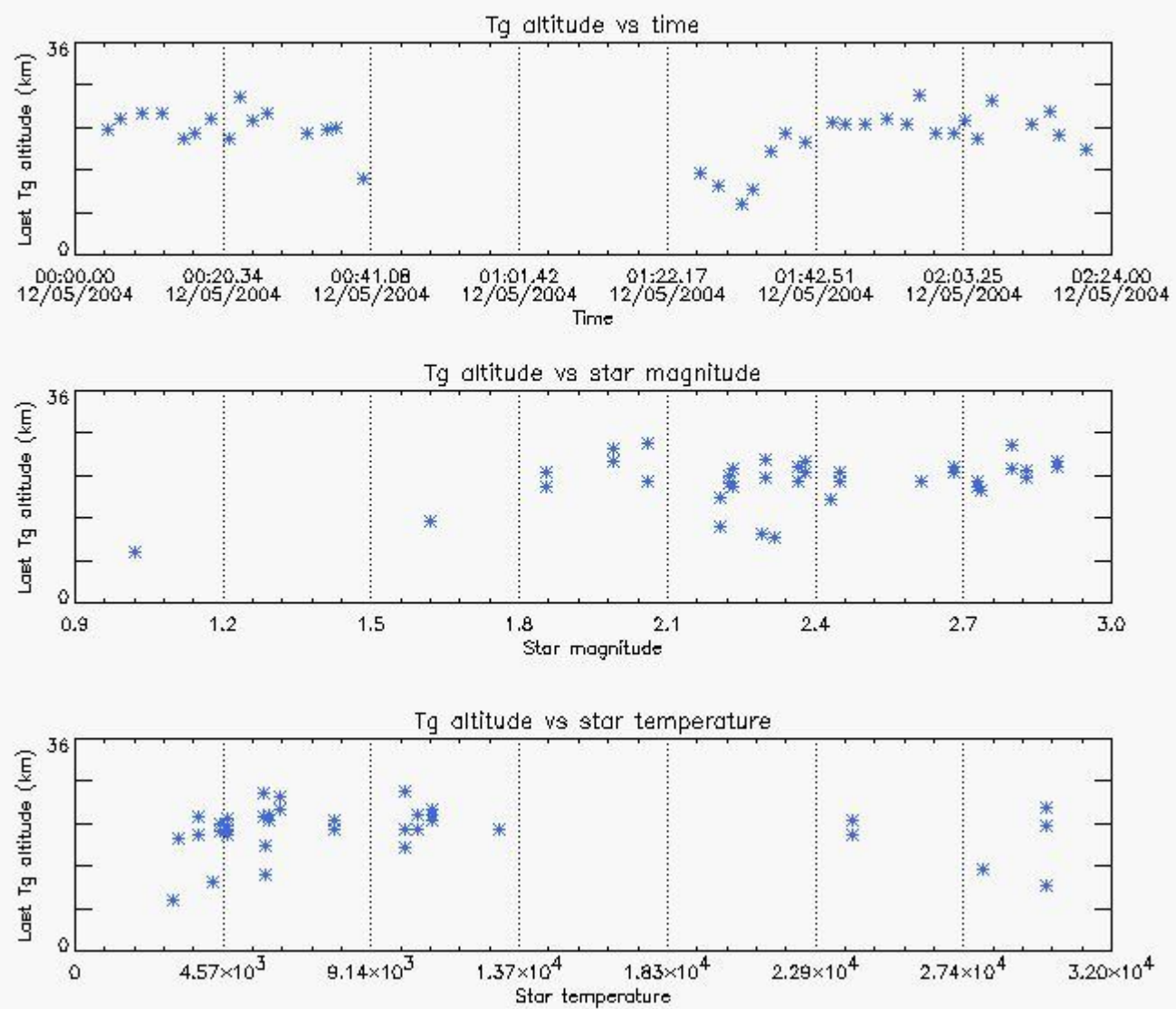
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



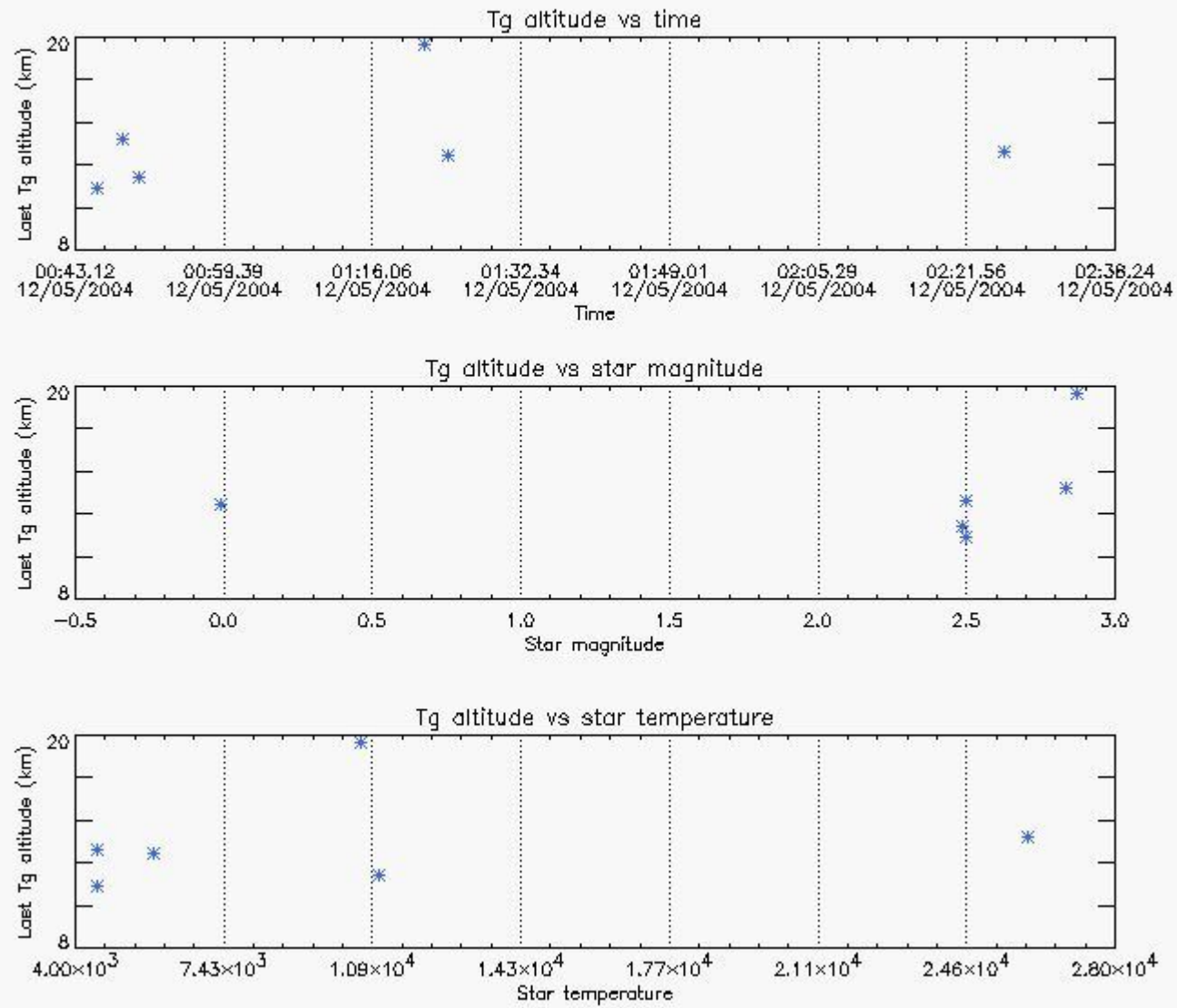
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

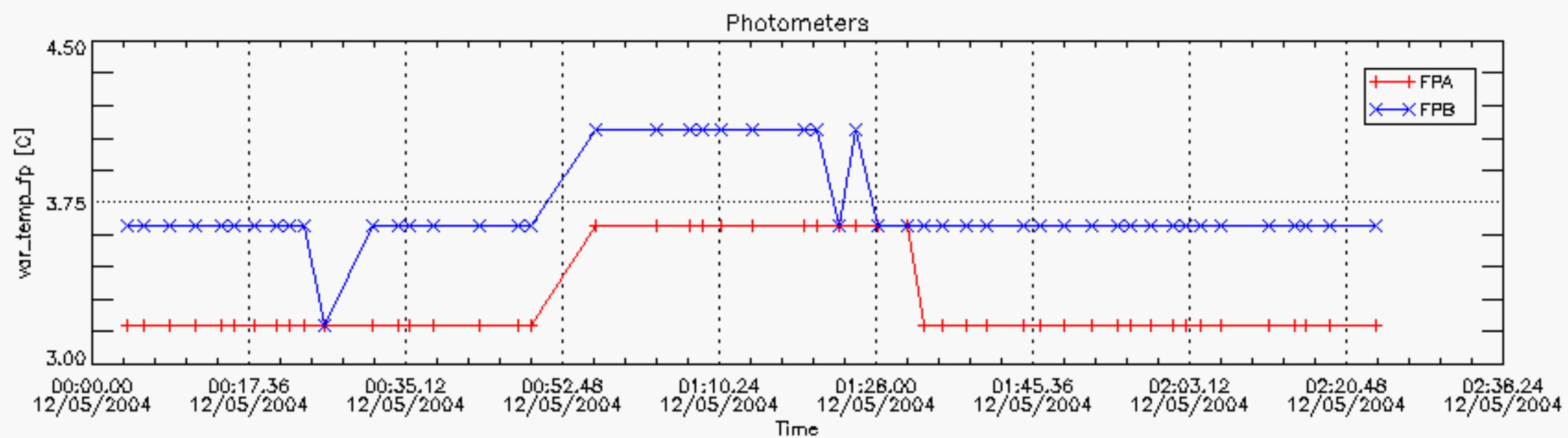
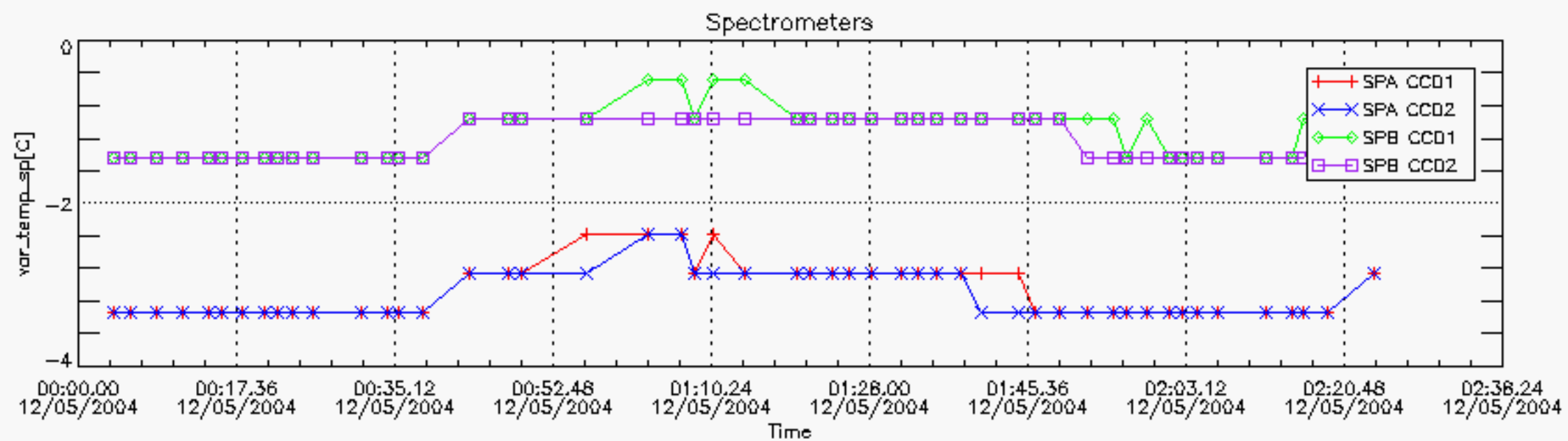
Tangent altitude at which the star is lost

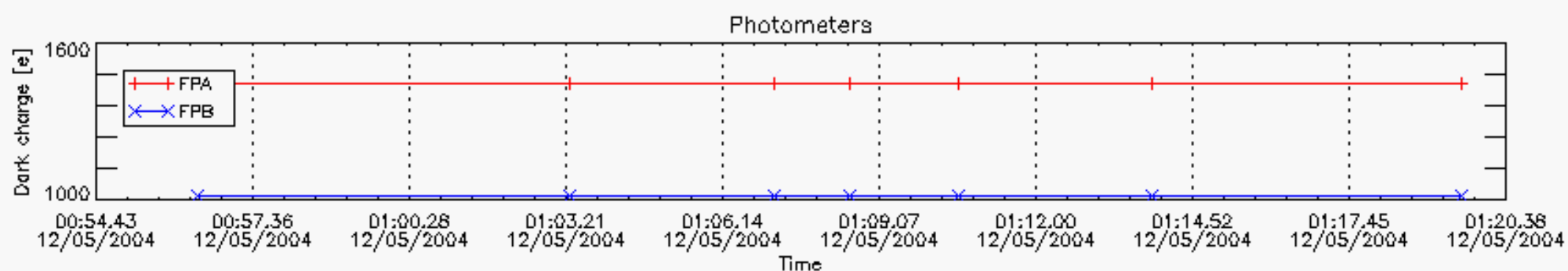
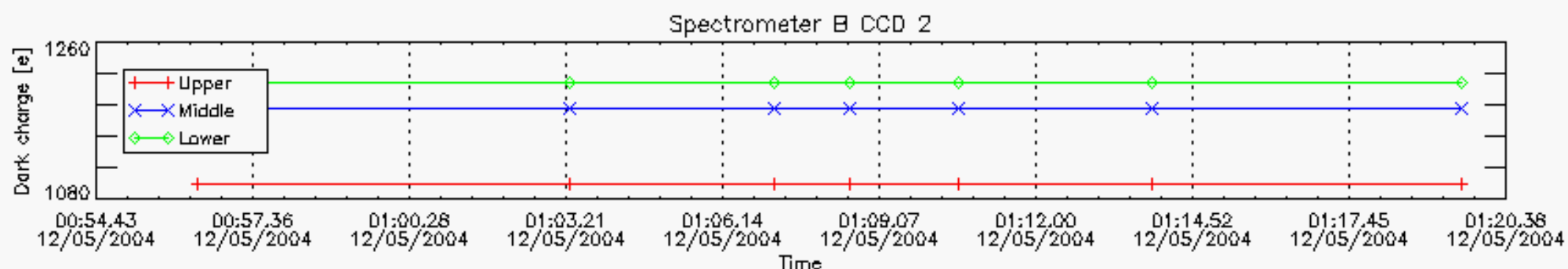
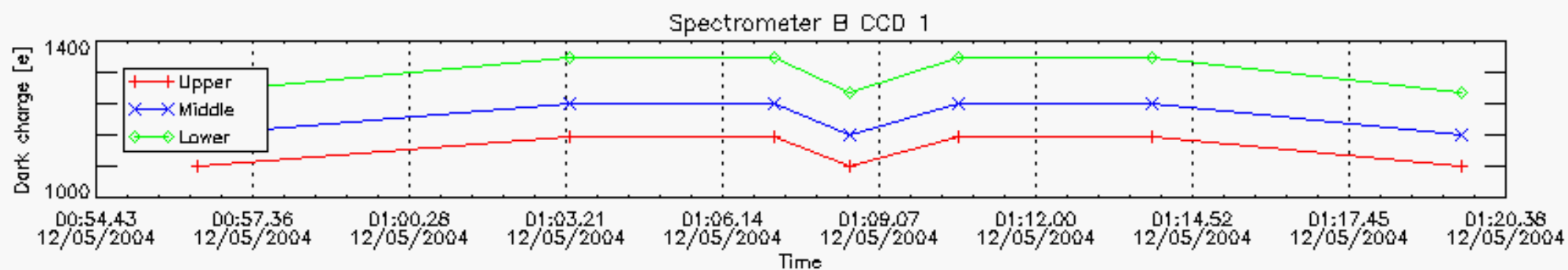
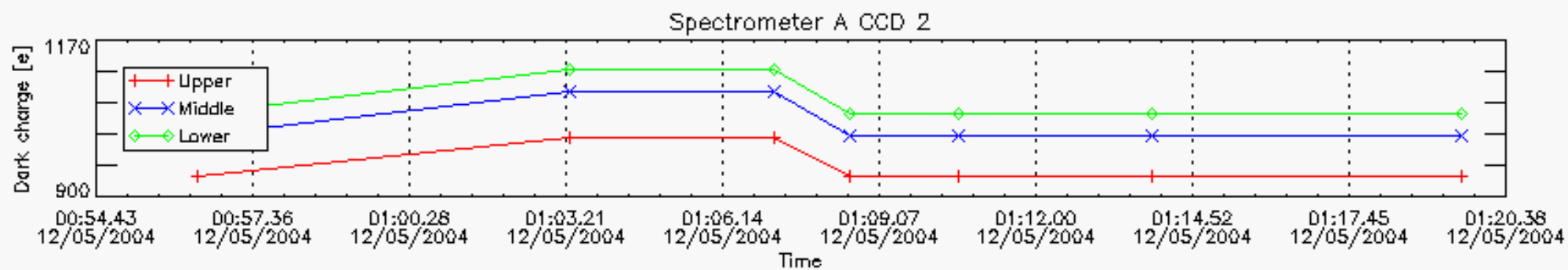
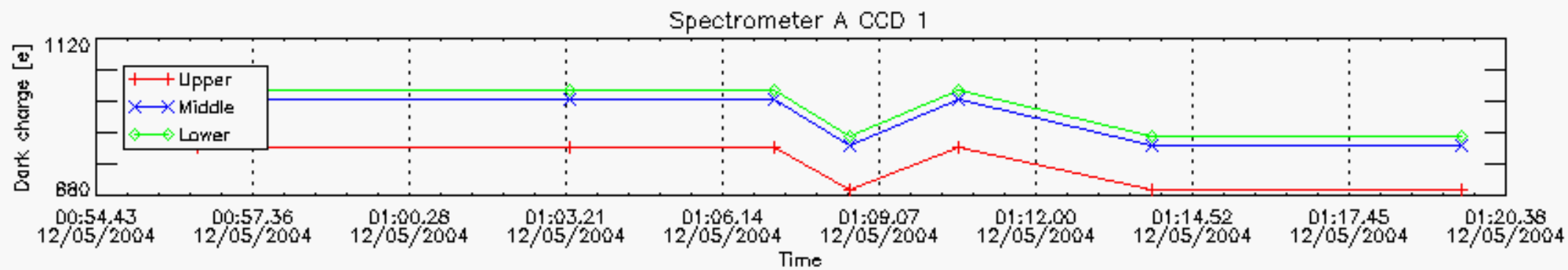


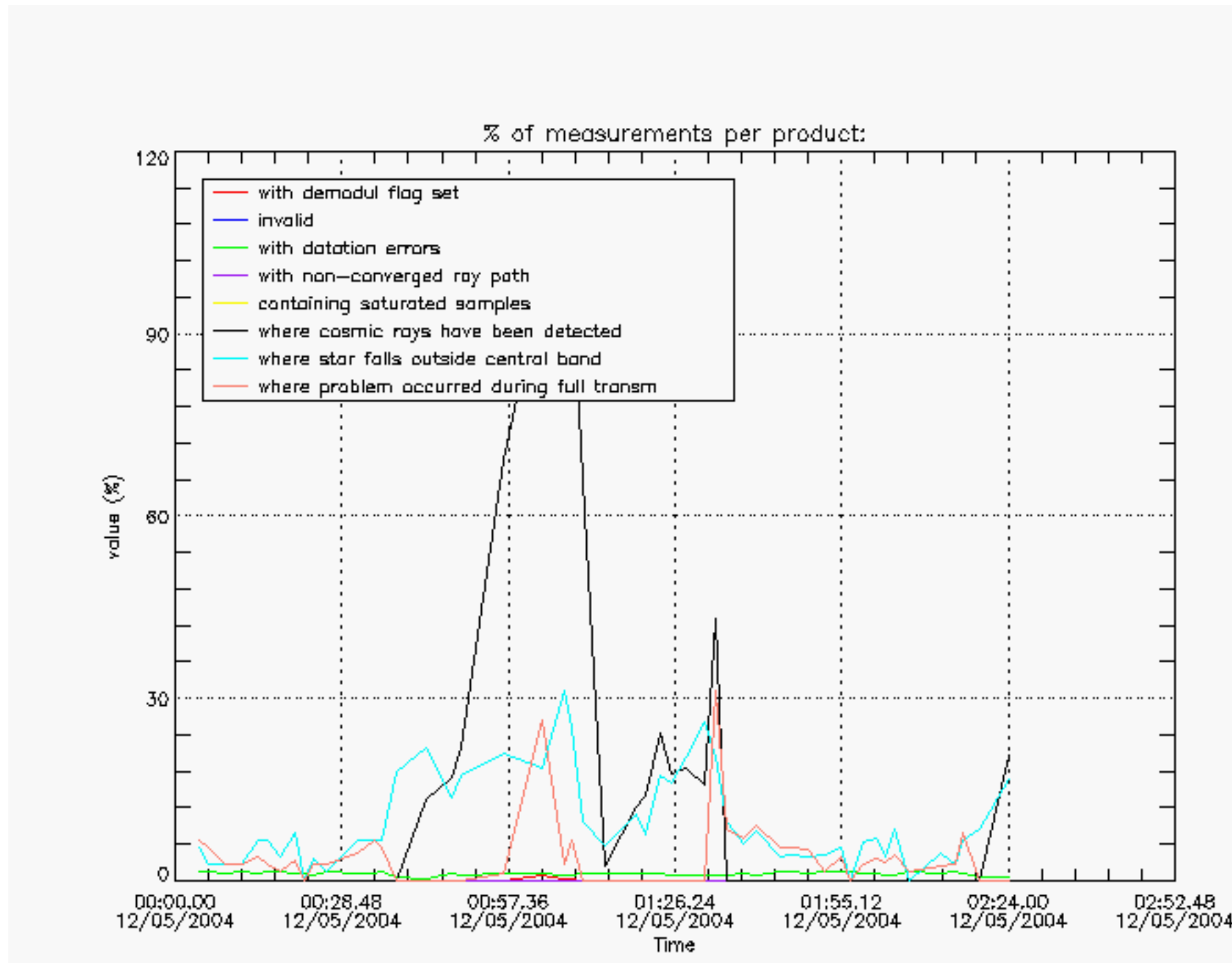
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

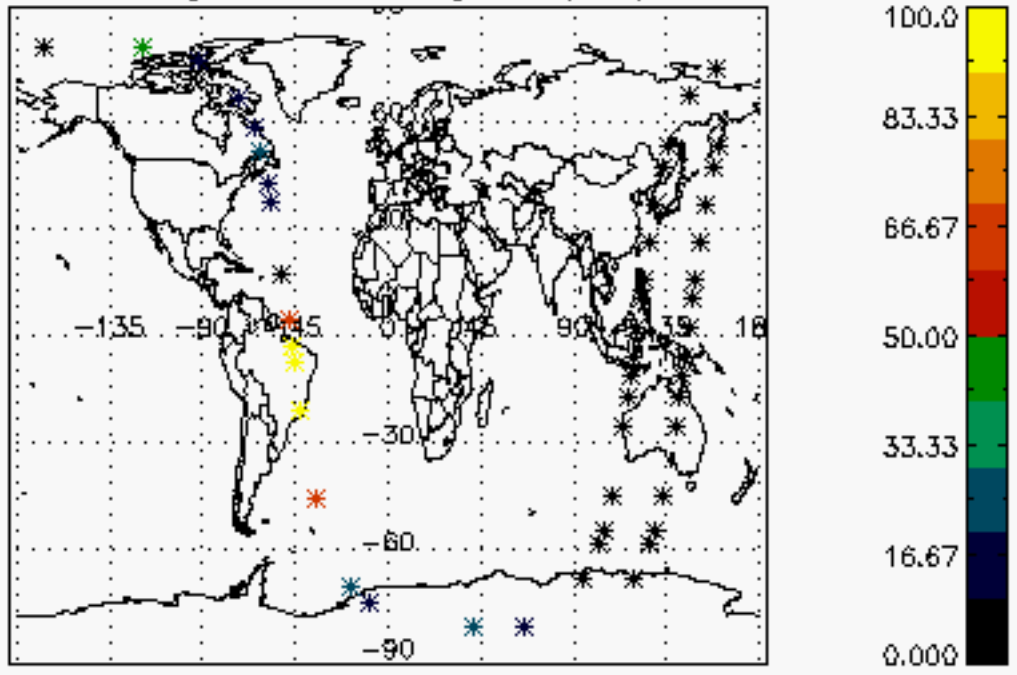
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.8	1446.4	1461.9	1447.7
St. deviation:	3.6210	5.6204	7.0455	7.9685
Maximum:	1488.0	1654.0	1519.0	1502.0
Minimum:	1455.0	1427.0	1447.0	1427.0
Number of data:	8000.0	8000.0	44600.	44600.



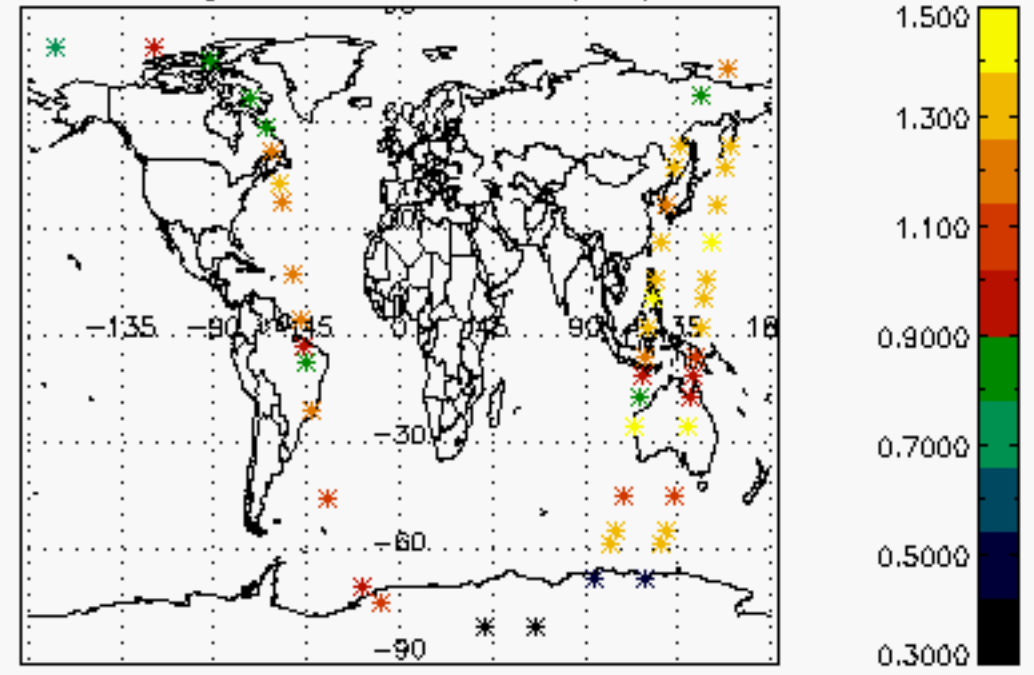




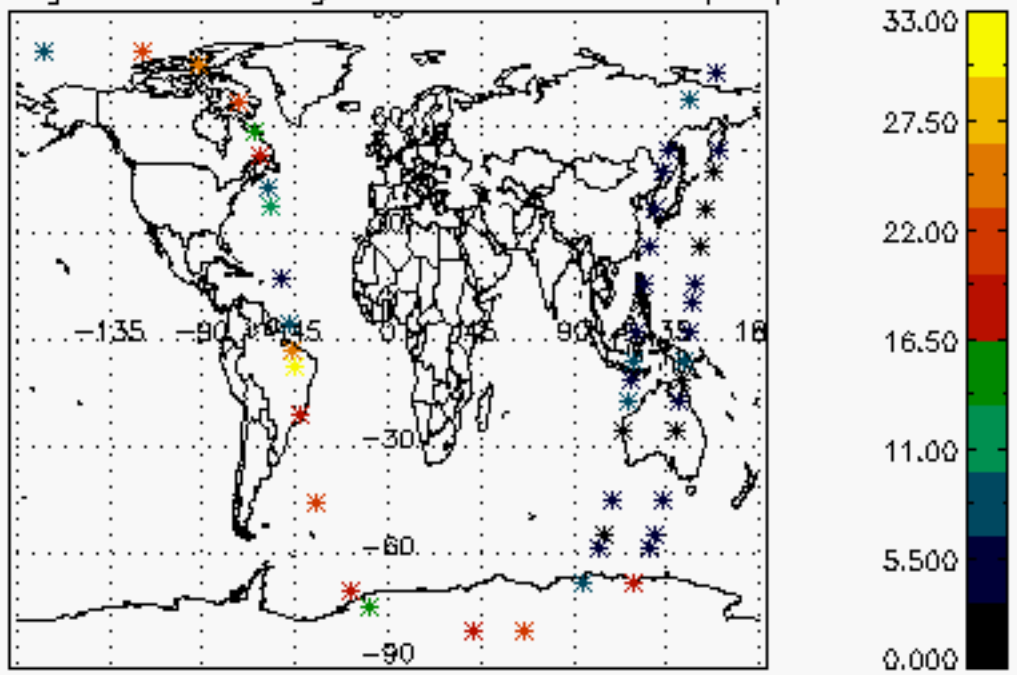
Percentage of cosmic ray hits per profile



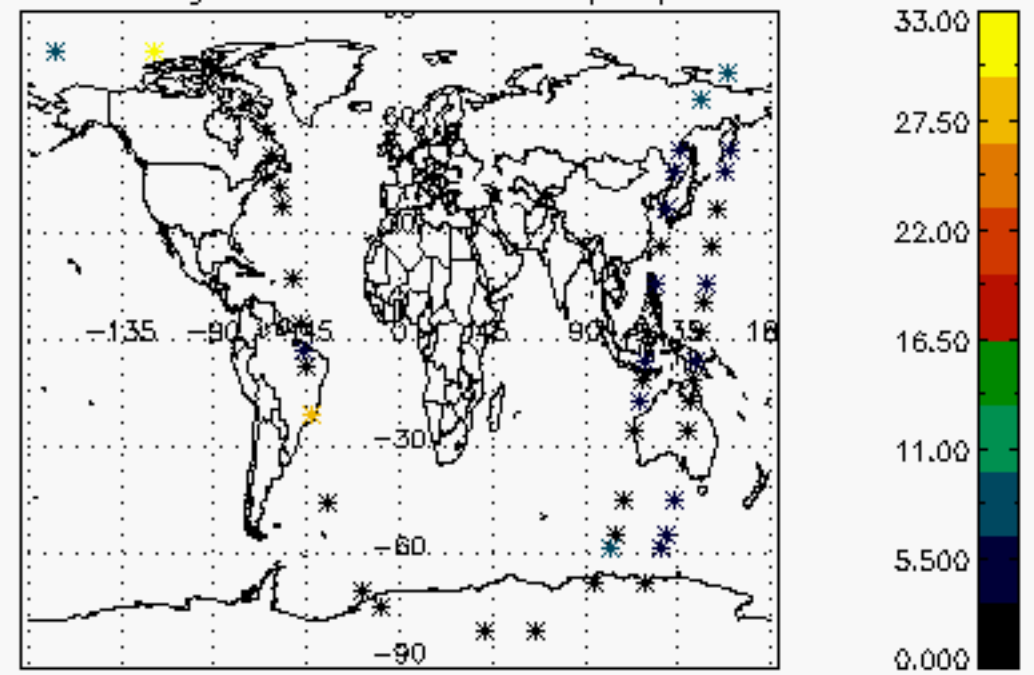
Percentage of datation errors per profile



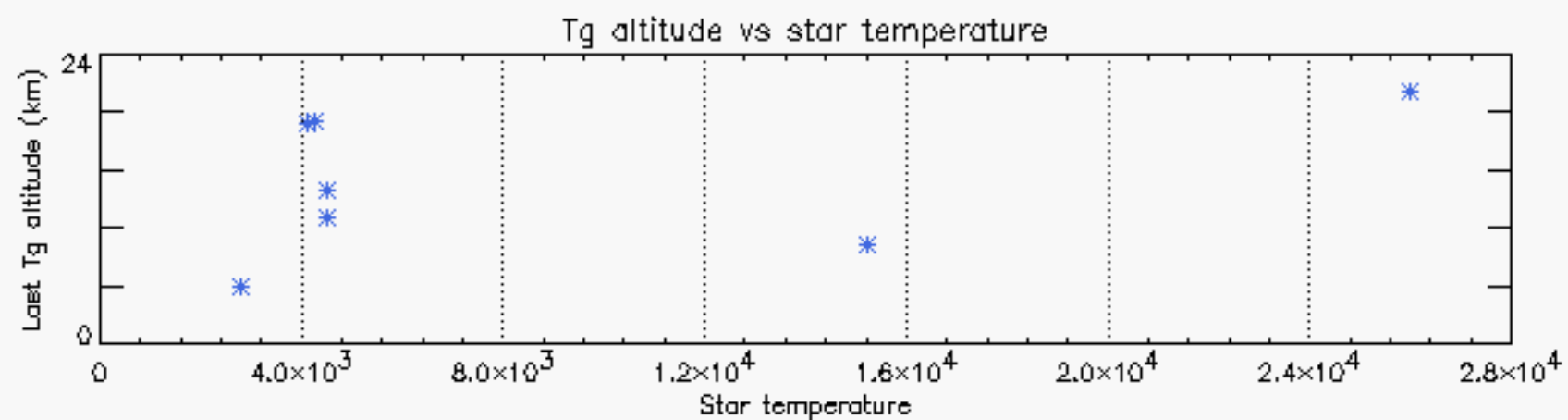
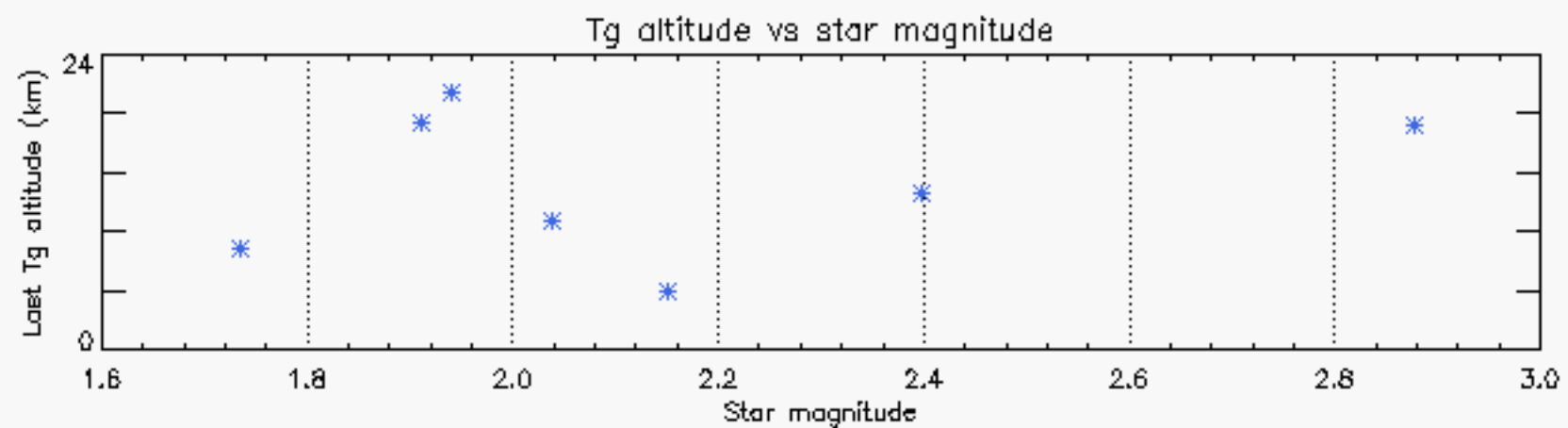
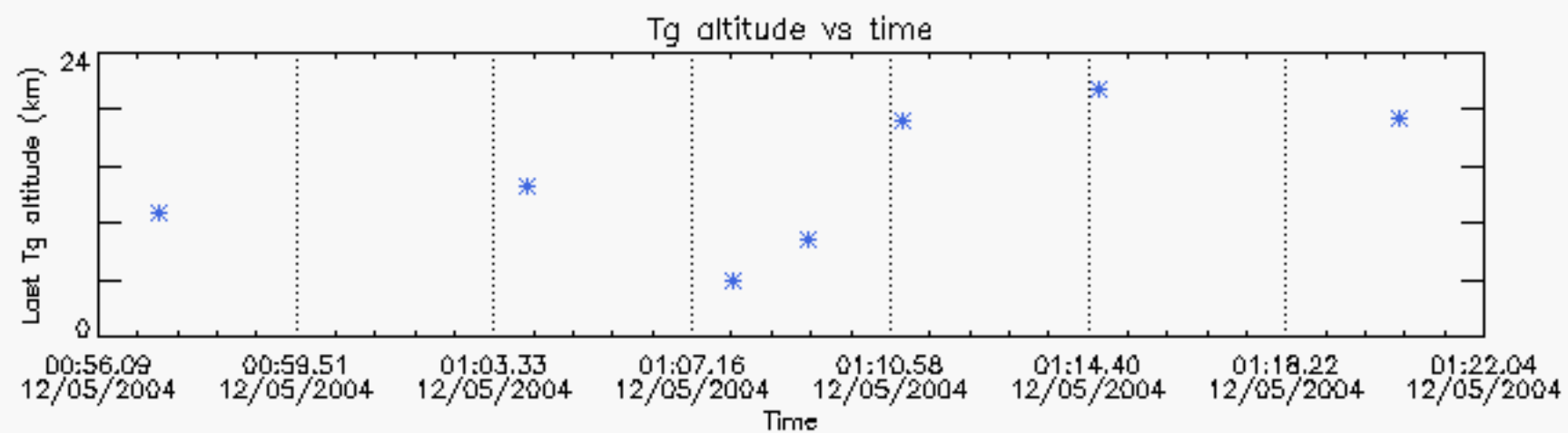
Percentage of star falling outside central band per profile



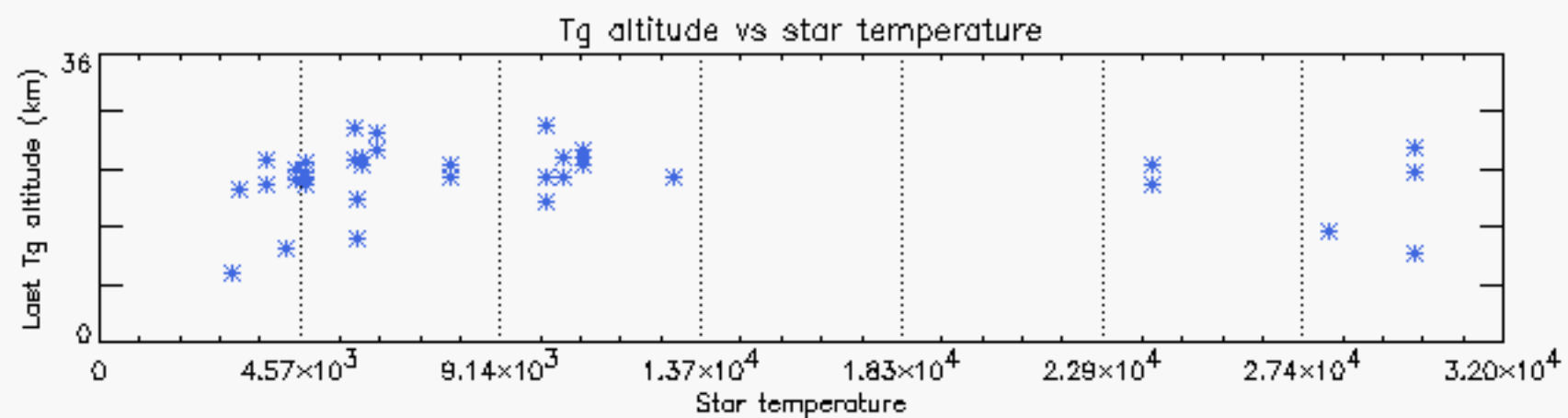
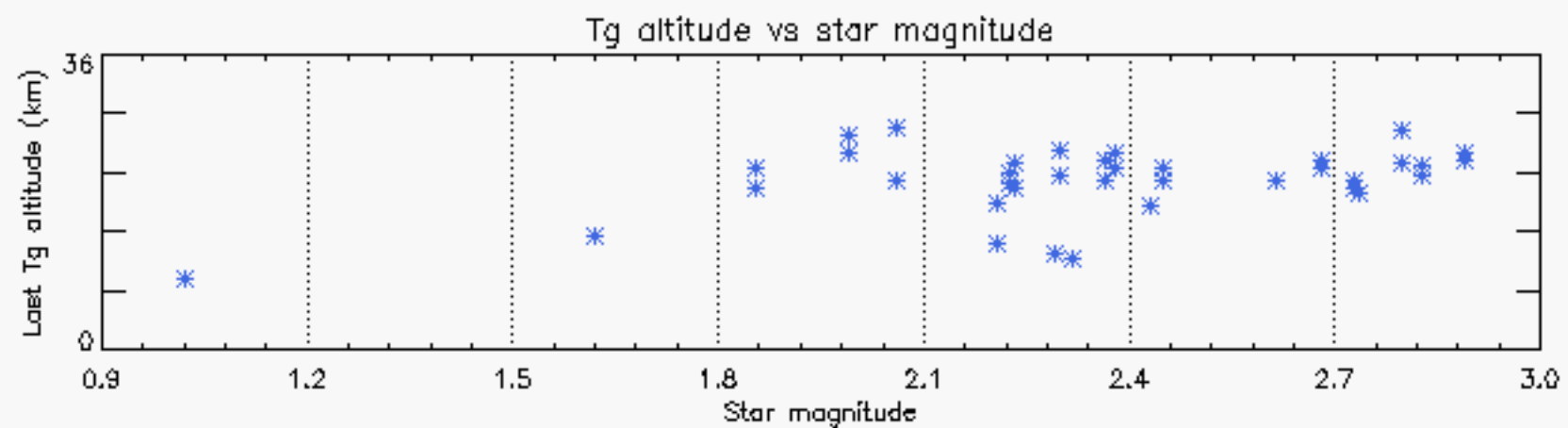
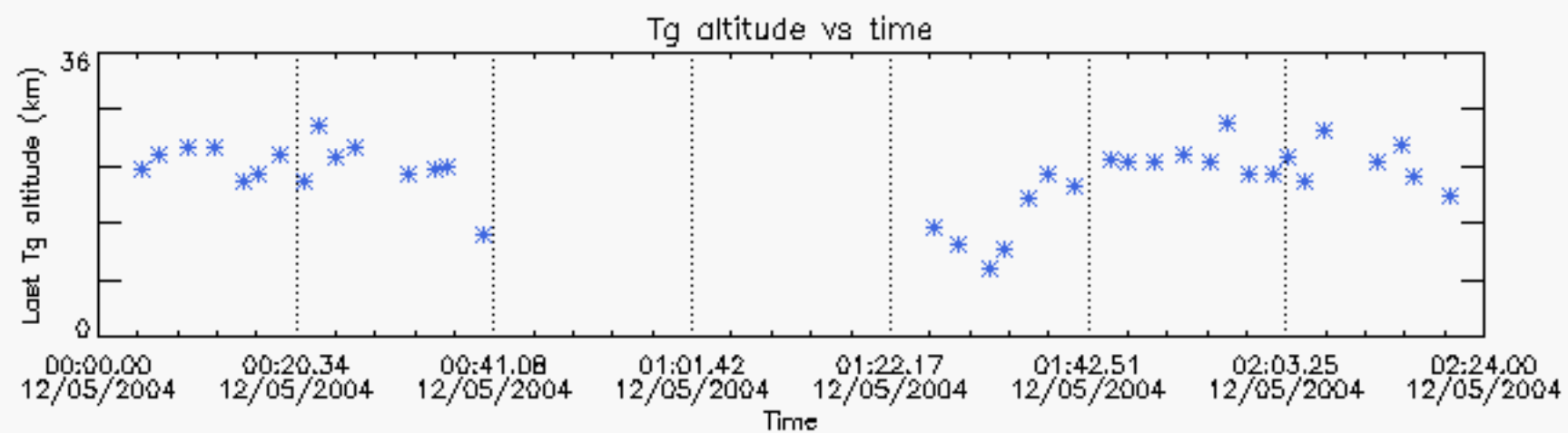
Percentage of saturation errors per profile



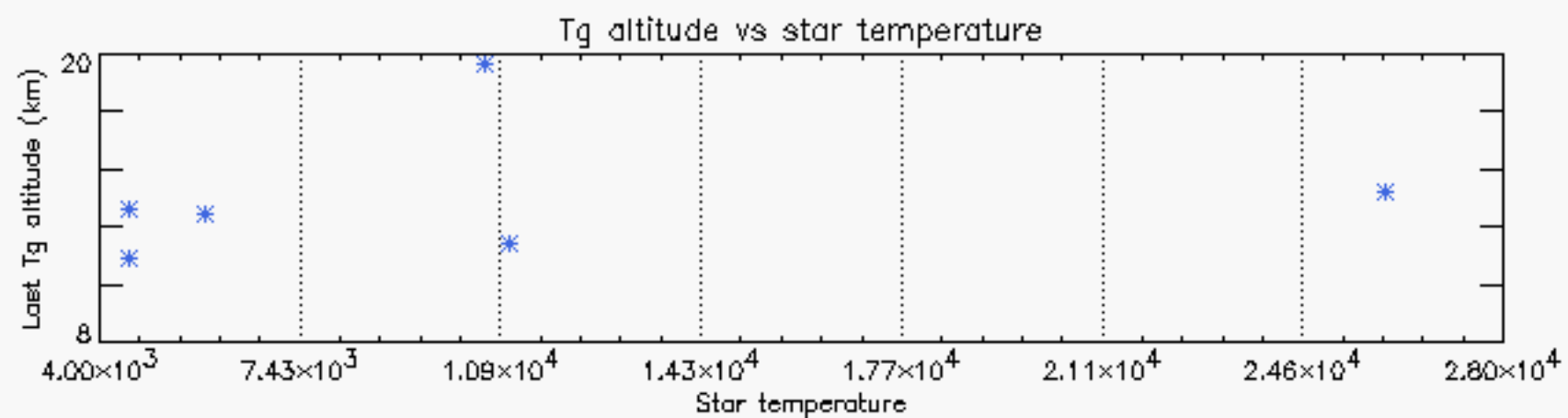
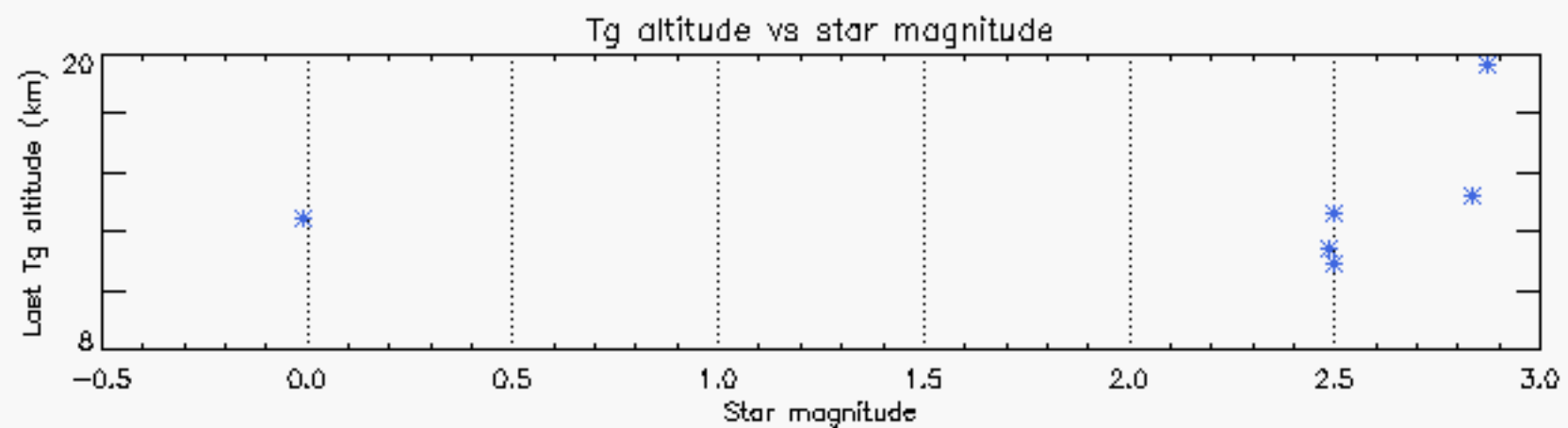
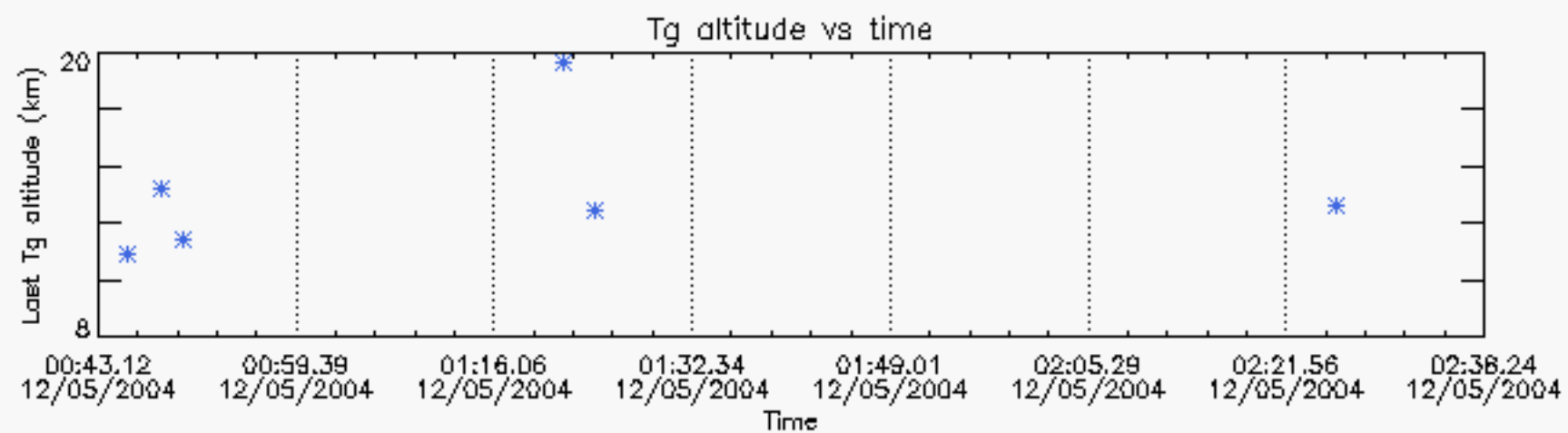
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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27;	209.9;	16-MAY-2004	17:32:59;	Dark	;	38.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	77;	0;	11561
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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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30; 897.1; 24-MAY-2004 05:08:32; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;11668
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33; 1212.8; 24-MAY-2004 05:13:48; Dark ; 53.5; 75; 26Eps Sco ; 2.29; 4250;occ; 107; 0;11668
34; 1382.7; 24-MAY-2004 05:16:37; Dark ; 60.0; 16; 21Alp Sco ; 1.02; 3000;occ; 120; 0;11668
35; 1476.4; 24-MAY-2004 05:18:11; Bright; 45.0; 80; 7Del Sco ; 2.32; 30000;occ; 90; 0;11668
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22;-699.6; 24-MAY-2004 14:45:31; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;11673
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27; 221.4; 24-MAY-2004 15:00:52; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;11674
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32; 1095.9; 24-MAY-2004 15:15:26; Dark ; 49.0; 25; 35Lam Sco ; 1.62; 28000;occ; 98; 0;11674
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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8;-3668.3; 24-MAY-2004 15:36:38; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;11674
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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19;-1653.9; 24-MAY-2004 16:10:12; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;11674
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21;-1229.6; 24-MAY-2004 16:17:17; Dark ; 48.0; 140; 88Gam Peg ; 2.83; 26000;occ; 96; 0;11674
22;-1089.7; 24-MAY-2004 16:19:37; Dark ; 69.5; 90; 54Alp Peg ; 2.49; 11000;occ; 139; 0;11674
23;-699.2; 24-MAY-2004 16:26:07; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;11674
24;-424.0; 24-MAY-2004 16:30:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;11674
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
28; 221.3; 24-MAY-2004 16:41:28; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;11675
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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
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
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3;	-4558.3;	24-MAY-2004	17:02:24;	Bright	;	43.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	87;	0;	11675
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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
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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
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