

GOMOS Daily Report 05-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	06MAY2004 03:42:49
Data source version	GOMOS/4.02
Start time of products	05-MAY-2004 (05MAY2004 00:00:00)
Stop time of products	06-MAY-2004 (06MAY2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	2

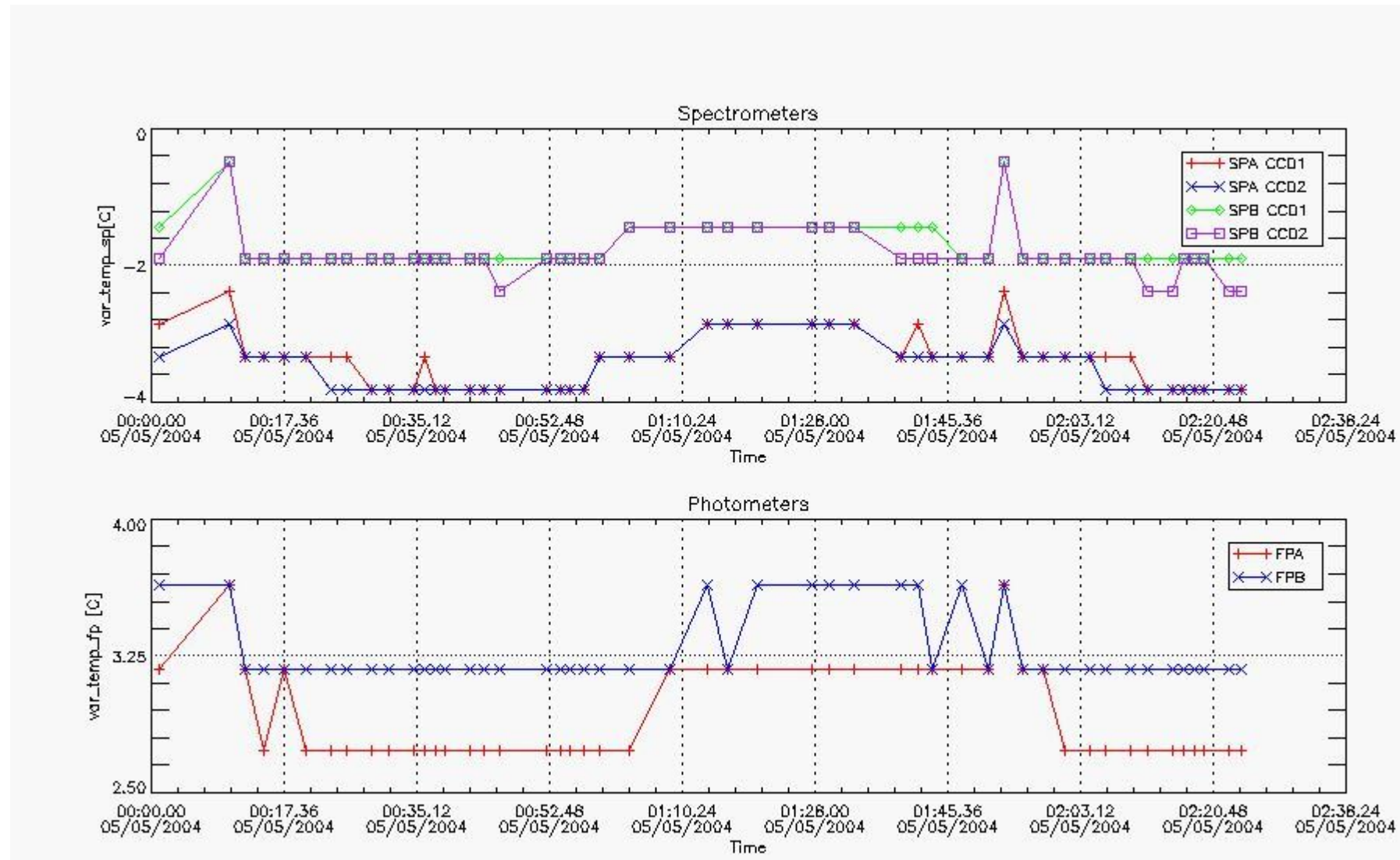
2. Summary of products arrived in PCF

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_1PNPDE20040505_000059_000000412026_00317_11393_0031.N1	05-MAY-2004 00:00:59	Twilight	40.500	134	Bet TrA	2.8100	6600.0	81	11393	No
GOM_TRA_1PNPDE20040505_001023_000000702026_00317_11393_0000.N1	05-MAY-2004 00:10:23	Bright	70.000	16	21Alp Sco	1.0200	3000.0	140	11393	Yes
GOM_TRA_1PNPDE20040505_001226_000000612026_00317_11393_0001.N1	05-MAY-2004 00:12:26	Bright	61.000	80	7Del Sco	2.3160	30000.	122	11393	No
GOM_TRA_1PNPDE20040505_001452_000000882026_00317_11393_0002.N1	05-MAY-2004 00:14:52	Bright	87.500	86	35Eta Oph	2.4300	10200.	175	11393	No
GOM_TRA_1PNPDE20040505_001734_000000472026_00317_11393_0003.N1	05-MAY-2004 00:17:34	Bright	47.000	104	27Bet Lib	2.6140	13100.	94	11393	No
GOM_TRA_1PNPDE20040505_002035_000000392026_00317_11393_0004.N1	05-MAY-2004 00:20:35	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	11393	No
GOM_TRA_1PNPDE20040505_002349_000000382026_00317_11393_0005.N1	05-MAY-2004 00:23:49	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	11393	No
GOM_TRA_1PNPDE20040505_002553_000000392026_00317_11393_0006.N1	05-MAY-2004 00:25:53	Bright	39.000	111	8Eta Boo	2.6800	6000.0	78	11393	No
GOM_TRA_1PNPDE20040505_002916_000000432026_00317_11393_0007.N1	05-MAY-2004 00:29:16	Bright	43.000	83		2.3780	11000.	86	11393	No
GOM_TRA_1PNPDE20040505_003126_000000412026_00317_11393_0008.N1	05-MAY-2004 00:31:26	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	11393	No
GOM_TRA_1PNPDE20040505_003447_000000372026_00317_11393_0009.N1	05-MAY-2004 00:34:47	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	11393	No
GOM_TRA_1PNPDE20040505_003612_000000362026_00317_11393_0010.N1	05-MAY-2004 00:36:12	Bright	36.000	55	79Zet UMa	2.0600	10200.	72	11393	No
GOM_TRA_1PNPDE20040505_003744_000000382026_00317_11393_0011.N1	05-MAY-2004 00:37:44	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	11393	No
GOM_TRA_1PNPDE20040505_003859_000000402026_00317_11393_0012.N1	05-MAY-2004 00:38:59	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	11393	No
GOM_TRA_1PNPDE20040505_004215_000000412026_00317_11393_0013.N1	05-MAY-2004 00:42:15	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	11393	No
GOM_TRA_1PNPDE20040505_004402_000000552026_00317_11393_0014.N1	05-MAY-2004 00:44:02	Bright	54.500	130	23Bet Dra	2.7990	5800.0	109	11393	No
GOM_TRA_1PNPDE20040505_004611_000000382026_00317_11393_0015.N1	05-MAY-2004 00:46:11	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	11393	No
GOM_TRA_1PNPDE20040505_005217_000000432026_00317_11393_0016.N1	05-MAY-2004 00:52:17	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	11393	No
GOM_TRA_1PNPDE20040505_005414_000000442026_00317_11393_0017.N1	05-MAY-2004 00:54:14	Bright	43.500	110	37Del Cas	2.6780	8900.0	87	11393	No
GOM_TRA_1PNPDE20040505_005531_000000392026_00317_11393_0018.N1	05-MAY-2004 00:55:31	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	11393	No
GOM_TRA_1PNPDE20040505_005722_000000662026_00317_11393_0019.N1	05-MAY-2004 00:57:22	Bright	65.500	19	50Alp Cyg	1.2460	10500.	131	11393	No
GOM_TRA_1PNPDE20040505_005921_000000822026_00317_11393_0020.N1	05-MAY-2004 00:59:21	Twilight	82.000	66	37Gam Cyg	2.2080	5900.0	164	11393	No
GOM_TRA_1PNPDE20040505_010327_000000942026_00317_11393_0021.N1	05-MAY-2004 01:03:27	Twilight	93.500	92	53Eps Cyg	2.5000	4500.0	187	11393	No
GOM_TRA_1PNPDE20040505_010843_000000492026_00317_11393_0022.N1	05-MAY-2004 01:08:43	Twilight	49.000	90	54Alp Peg	2.4870	11000.	98	11393	No
GOM_TRA_1PNPDE20040505_011340_000000762026_00317_11393_0023.N1	05-MAY-2004 01:13:40	Dark	75.500	61	8Eps Peg	2.1000	3900.0	151	11393	No
GOM_TRA_1PNPDE20040505_011620_000000432026_00317_11393_0024.N1	05-MAY-2004 01:16:20	Dark	43.000	52	16Bet Cet	2.0370	4500.0	86	11393	No
GOM_TRA_1PNPDE20040505_012015_000000742026_00317_11393_0025.N1	05-MAY-2004 01:20:15	Dark	74.000	154	22Bet Aqr	2.8990	5700.0	148	11393	No
GOM_TRA_1PNPDE20040505_012732_000000452026_00317_11393_0026.N1	05-MAY-2004 01:27:32	Dark	44.500	31	Alp Gru	1.7340	15200.	89	11393	No
GOM_TRA_1PNPDE20040505_012956_000000412026_00318_11394_0027.N1	05-MAY-2004 01:29:56	Dark	41.000	148	Alp Tuc	2.8780	4100.0	82	11394	No
GOM_TRA_1PNPDE20040505_013306_000000432026_00318_11394_0028.N1	05-MAY-2004 01:33:06	Dark	42.500	45	Alp Pav	1.9400	26000.	85	11394	No
GOM_TRA_1PNPDE20040505_013922_000000452026_00318_11394_0029.N1	05-MAY-2004 01:39:22	Dark	44.500	43	Alp TrA	1.9100	4250.0	89	11394	No
GOM_TRA_1PNPDE20040505_014135_000000422026_00318_11394_0030.N1	05-MAY-2004 01:41:35	Twilight	42.000	134	Bet TrA	2.8100	6600.0	84	11394	No
GOM_TRA_1PNPDE20040505_014332_000000452026_00318_11394_0031.N1	05-MAY-2004 01:43:32	Twilight	45.000	4	Alp1Cen	-0.010000	5800.0	90	11394	No
GOM_TRA_1PNPDE20040505_014727_000000702026_00318_11394_0032.N1	05-MAY-2004 01:47:27	Bright	70.000	75	26Eps Sco	2.2910	4250.0	140	11394	No
GOM_TRA_1PNPDE20040505_015100_000000702026_00318_11394_0033.N1	05-MAY-2004 01:51:00	Bright	70.000	16	21Alp Sco	1.0200	3000.0	140	11394	No
GOM_TRA_1PNPDE20040505_015302_000000612026_00318_11394_0000.N1	05-MAY-2004 01:53:02	Bright	61.000	80	7Del Sco	2.3160	30000.	122	11394	Yes
GOM_TRA_1PNPDE20040505_015528_000000862026_00318_11394_0001.N1	05-MAY-2004 01:55:28	Bright	86.000	86	35Eta Oph	2.4300	10200.	172	11394	No
GOM_TRA_1PNPDE20040505_015810_000000452026_00318_11394_0002.N1	05-MAY-2004 01:58:10	Bright	45.000	104	27Bet Lib	2.6140	13100.	90	11394	No
GOM_TRA_1PNPDE20040505_020111_000000392026_00318_11394_0003.N1	05-MAY-2004 02:01:11	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	11394	No
GOM_TRA_1PNPDE20040505_020425_000000372026_00318_11394_0004.N1	05-MAY-2004 02:04:25	Bright	37.000	138	47Eps Vir	2.8280	4700.0	74	11394	No
GOM_TRA_1PNPDE20040505_020629_000000392026_00318_11394_0005.N1	05-MAY-2004 02:06:29	Bright	39.000	111	8Eta Boo	2.6800	6000.0	78	11394	No
GOM_TRA_1PNPDE20040505_020951_000000452026_00318_11394_0006.N1	05-MAY-2004 02:09:51	Bright	45.000	83		2.3780	11000.	90	11394	No
GOM_TRA_1PNPDE20040505_021204_000000382026_00318_11394_0007.N1	05-MAY-2004 02:12:04	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11394	No
GOM_TRA_1PNPDE20040505_021522_000000392026_00318_11394_0008.N1	05-MAY-2004 02:15:22	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	11394	No
GOM_TRA_1PNPDE20040505_021647_000000392026_00318_11394_0009.N1	05-MAY-2004 02:16:47	Bright	39.000	55	79Zet UMa	2.0600	10200.	78	11394	No
GOM_TRA_1PNPDE20040505_021820_000000372026_00318_11394_0010.N1	05-MAY-2004 02:18:20	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	11394	No
GOM_TRA_1PNPDE20040505_021936_000000382026_00318_11394_0011.N1	05-MAY-2004 02:19:36	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	11394	No
GOM_TRA_1PNPDE20040505_022251_000000412026_00318_11394_0012.N1	05-MAY-2004 02:22:51	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	11394	No
GOM_TRA_1PNPDE20040505_022436_000000522026_00318_11394_0013.N1	05-MAY-2004 02:24:36	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	11394	No

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



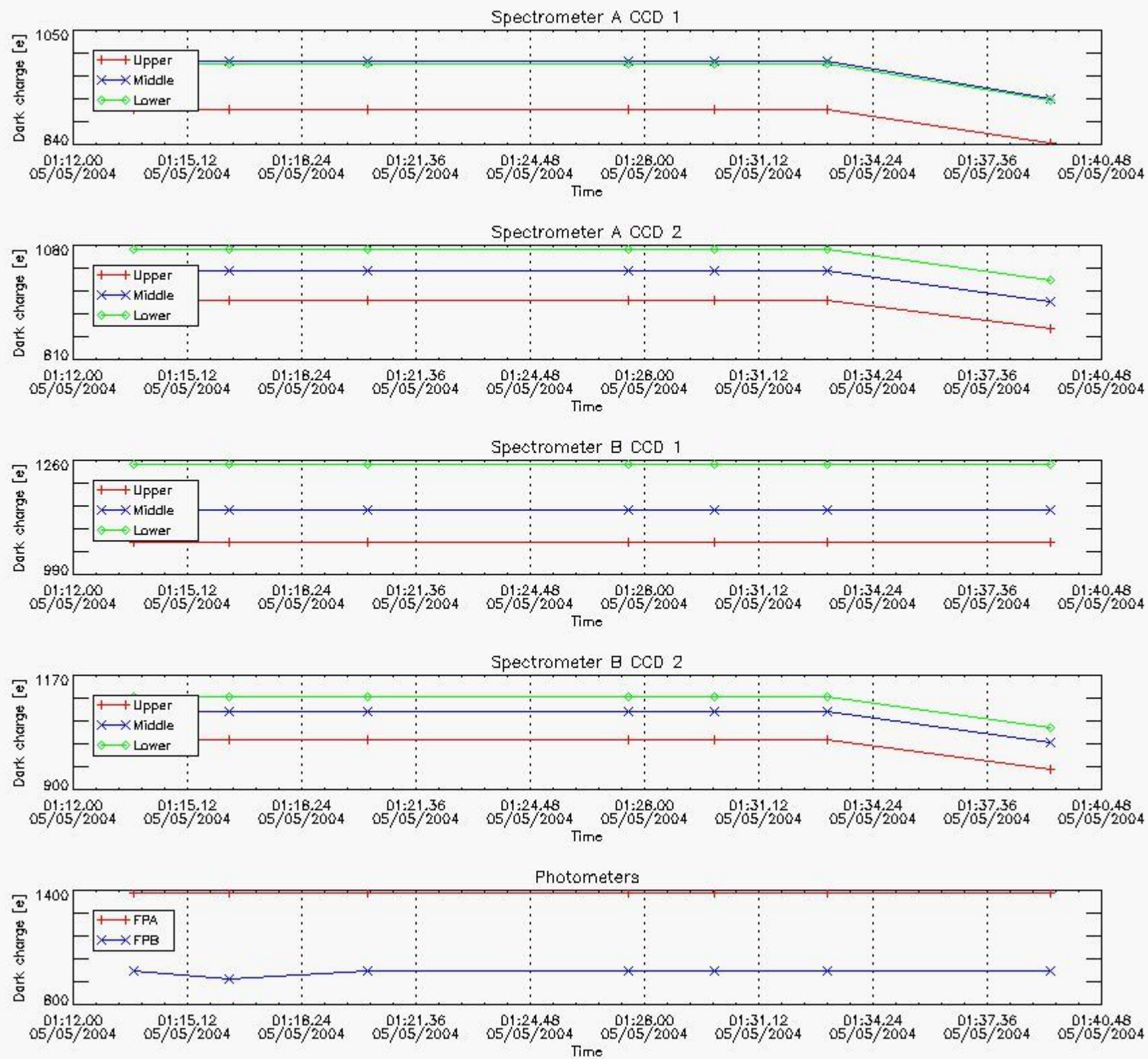
4. Overview of dark signal processing per product

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



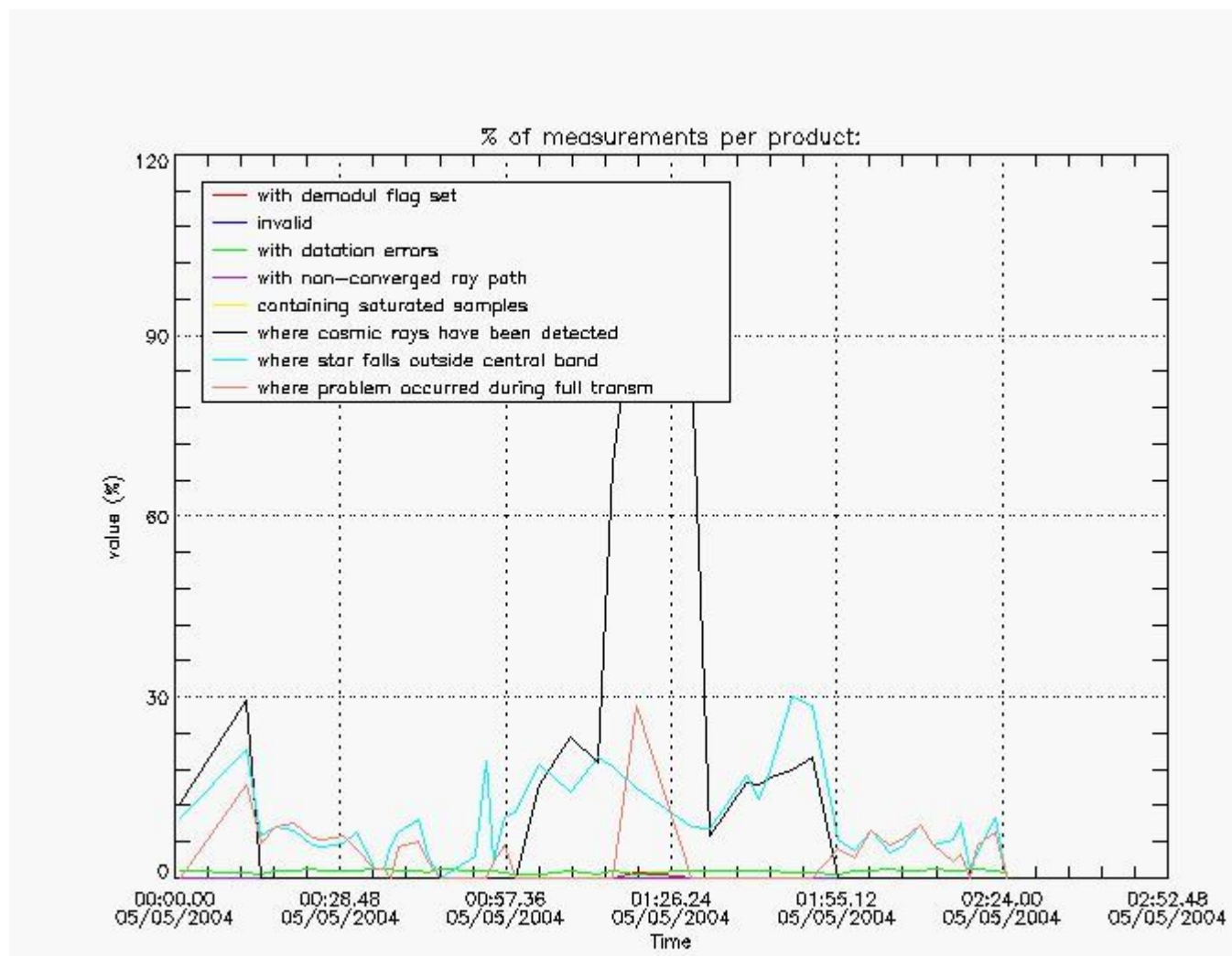
5. Demodulation flag and quality information monitoring

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:

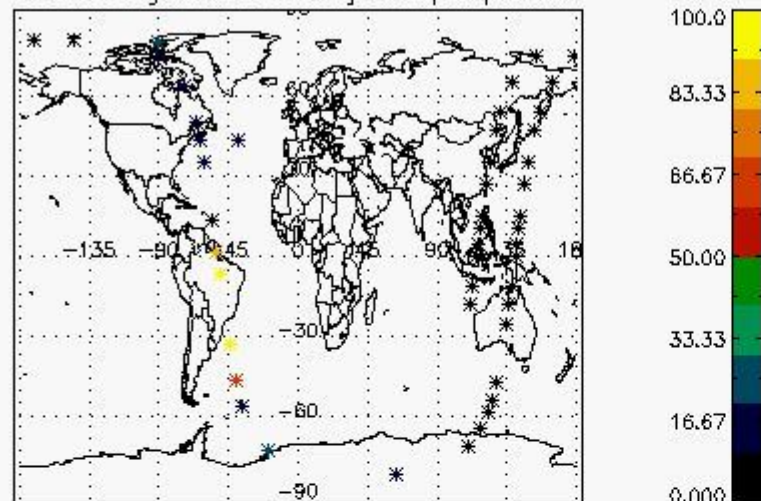
At least one measurement with demodulation flag set:	4.25532 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

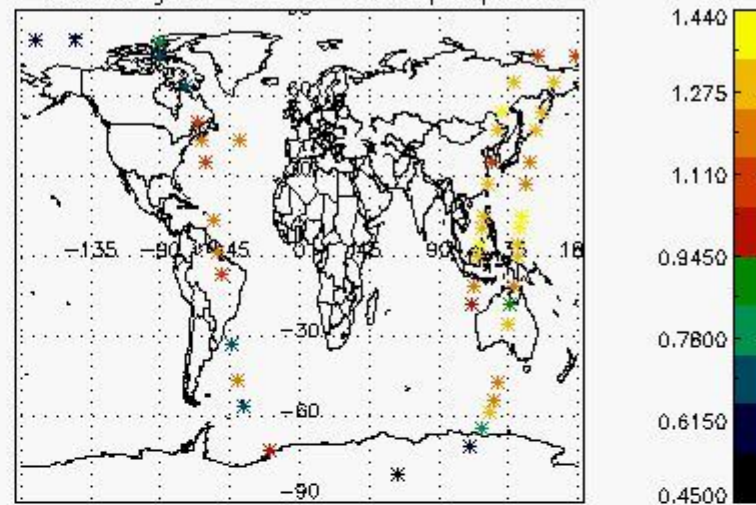


5.3 Plot quality information per product (world map)

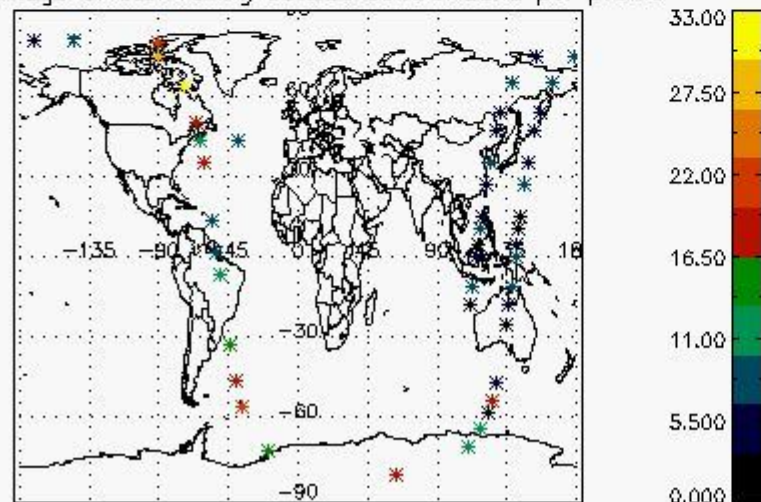
Percentage of cosmic ray hits per profile



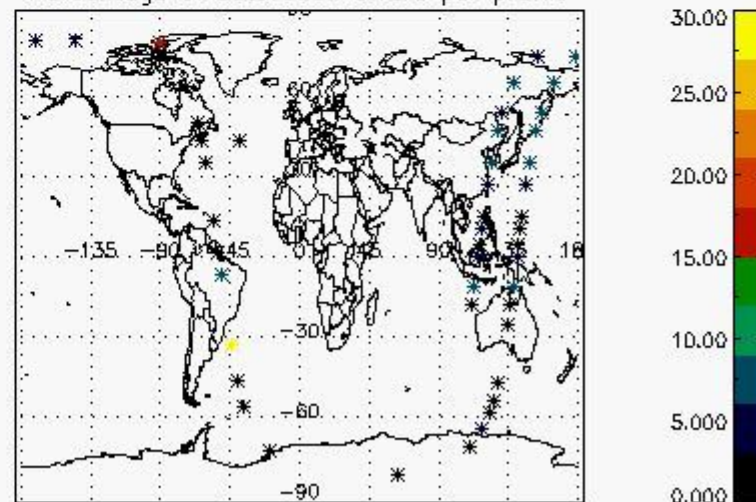
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



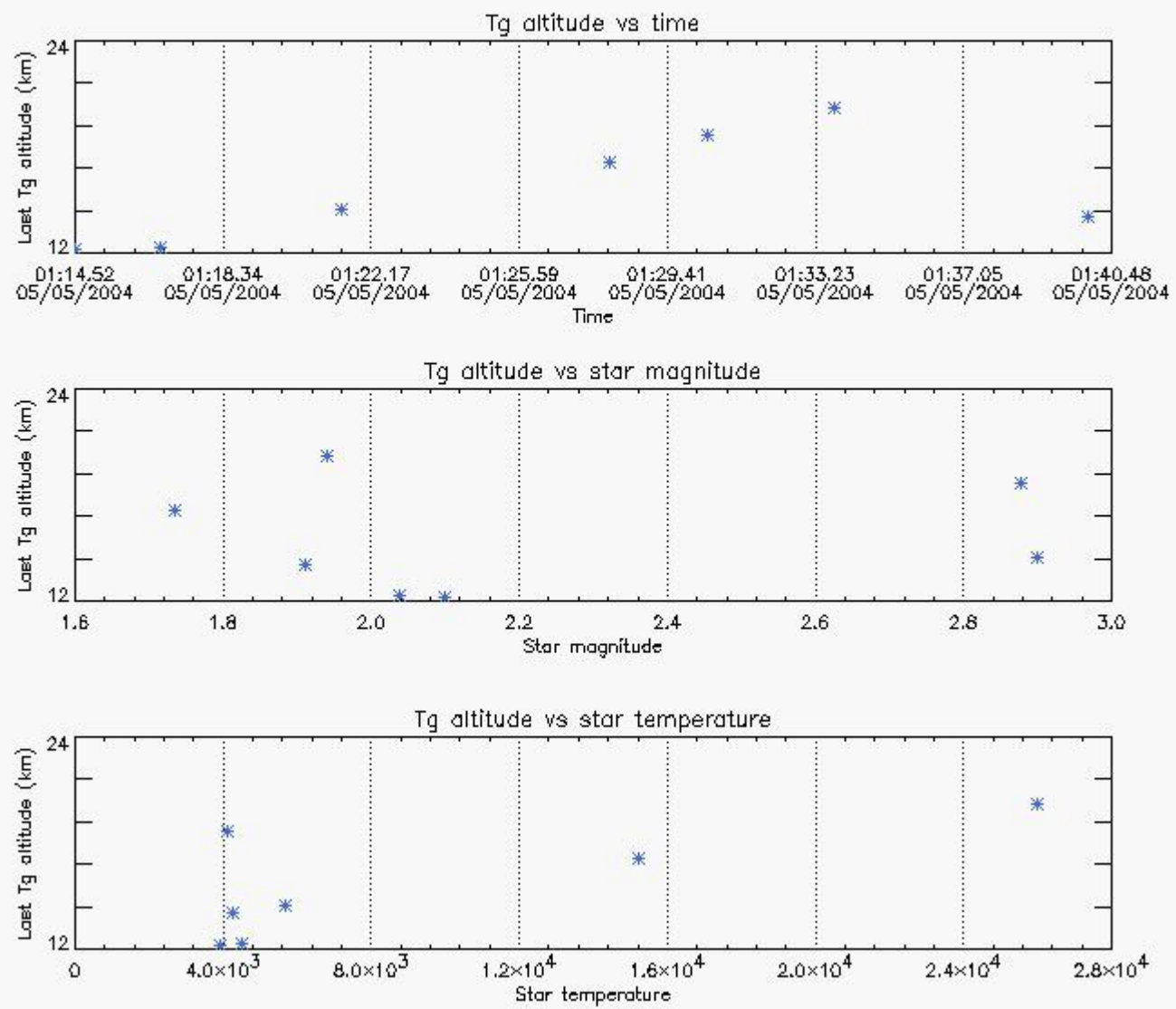
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.562	20.017	14.991
St. deviation:	3.1058	4.8180	2.6132
Maximum:	20.156	27.241	18.663
Minimum:	12.243	5.6966	12.087
Number of data:	7.0000	34.000	6.0000

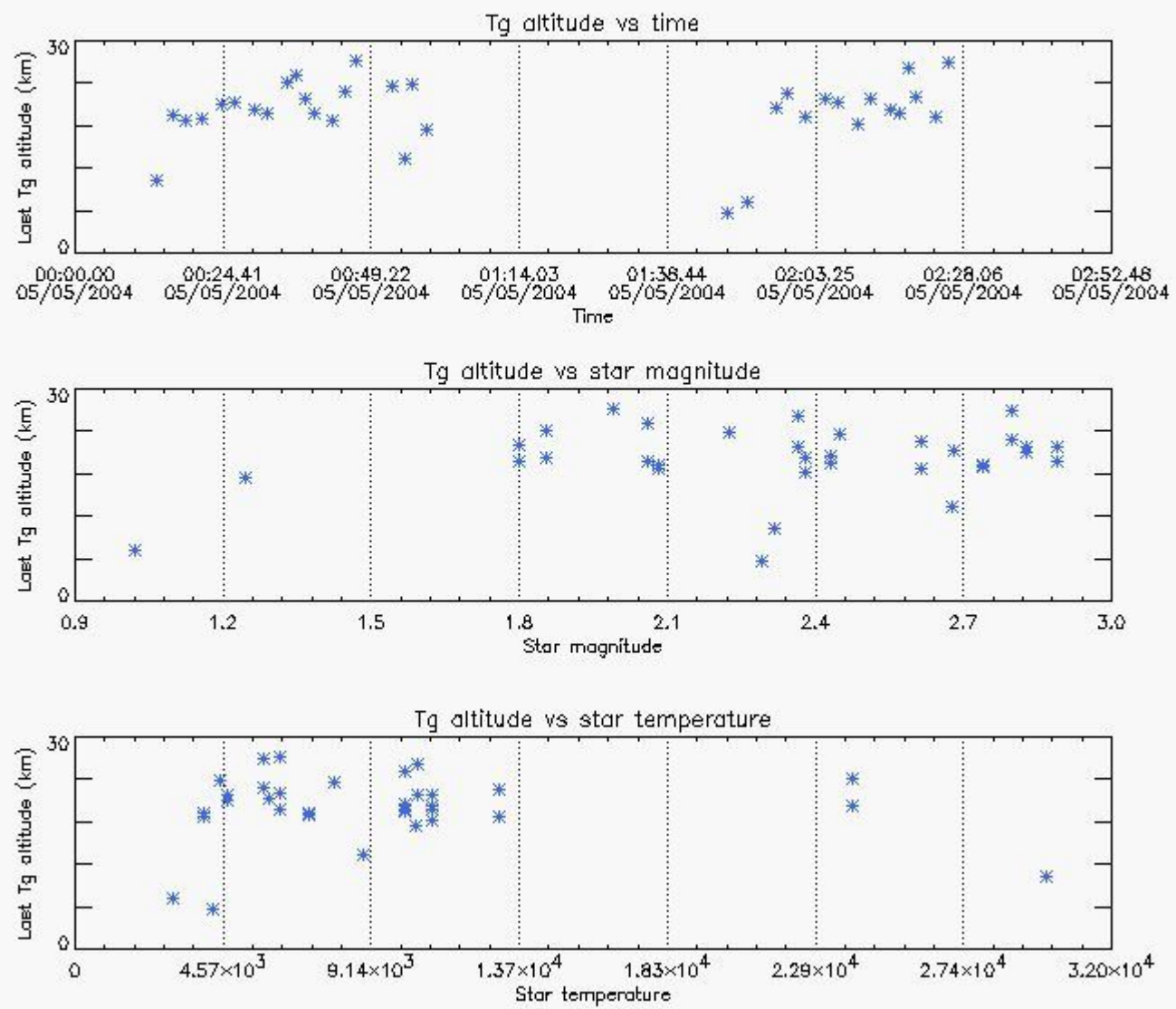
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



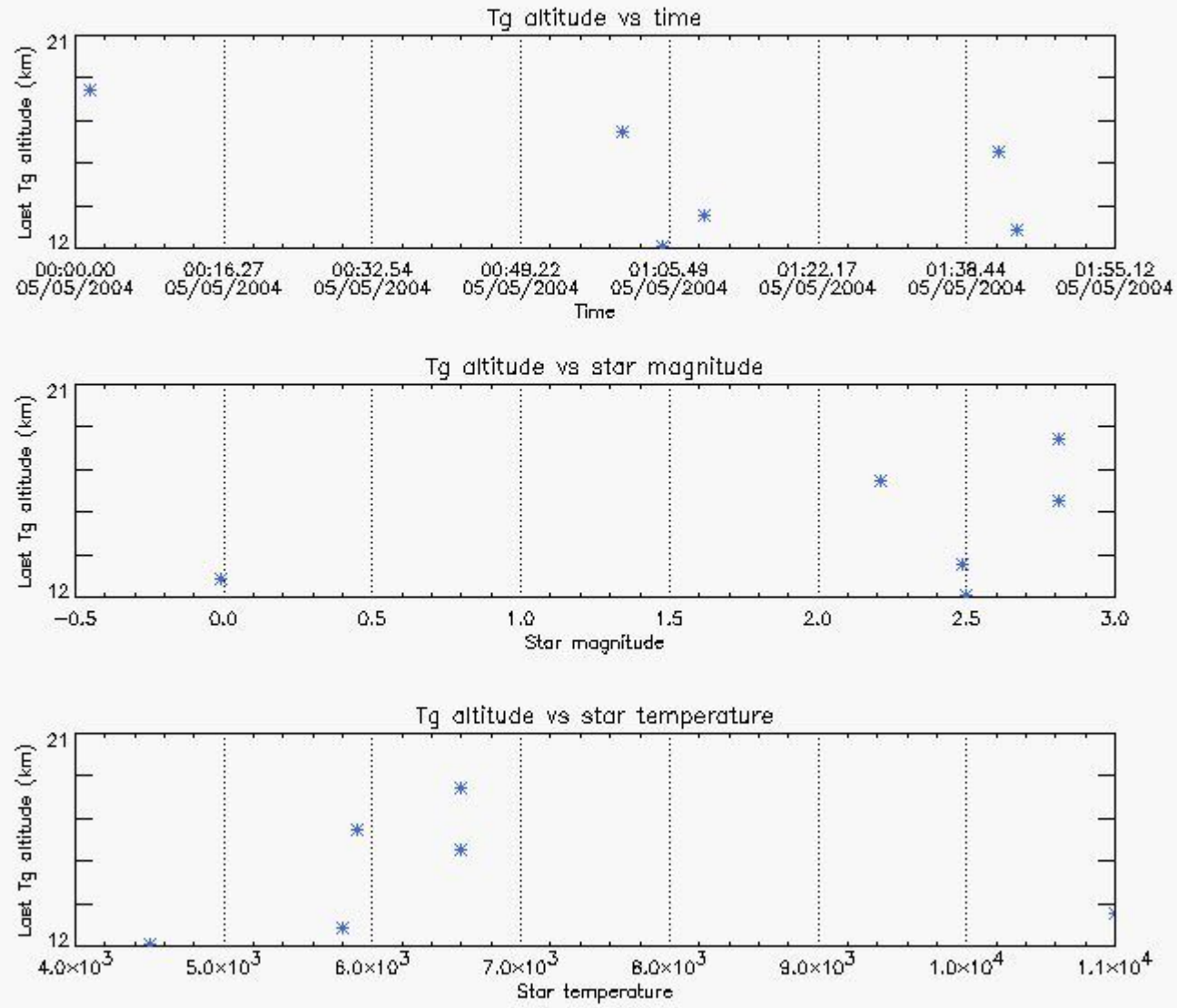
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

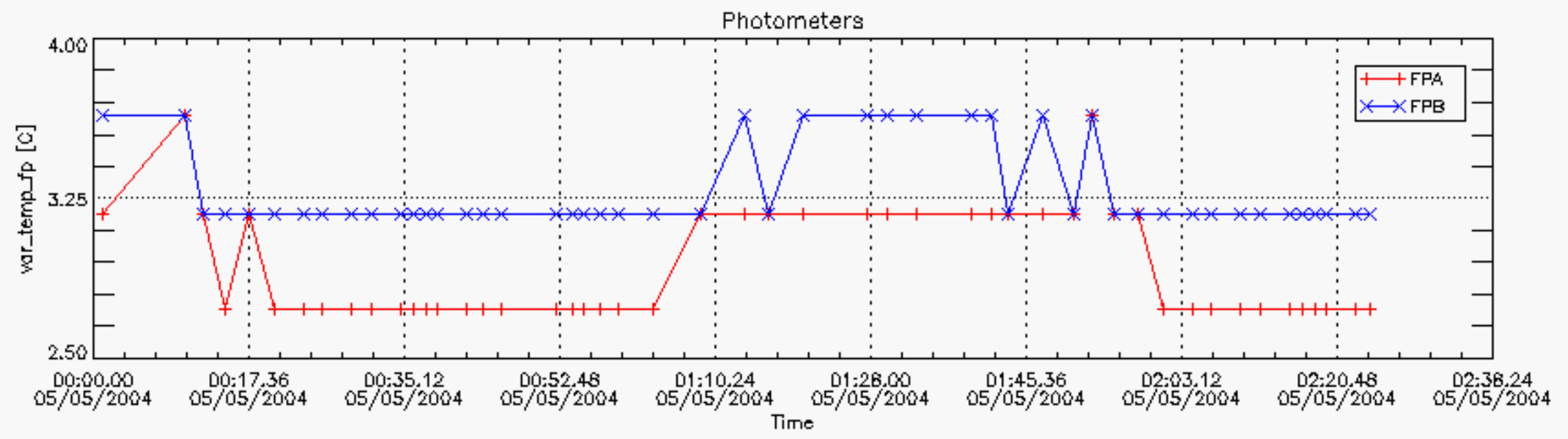
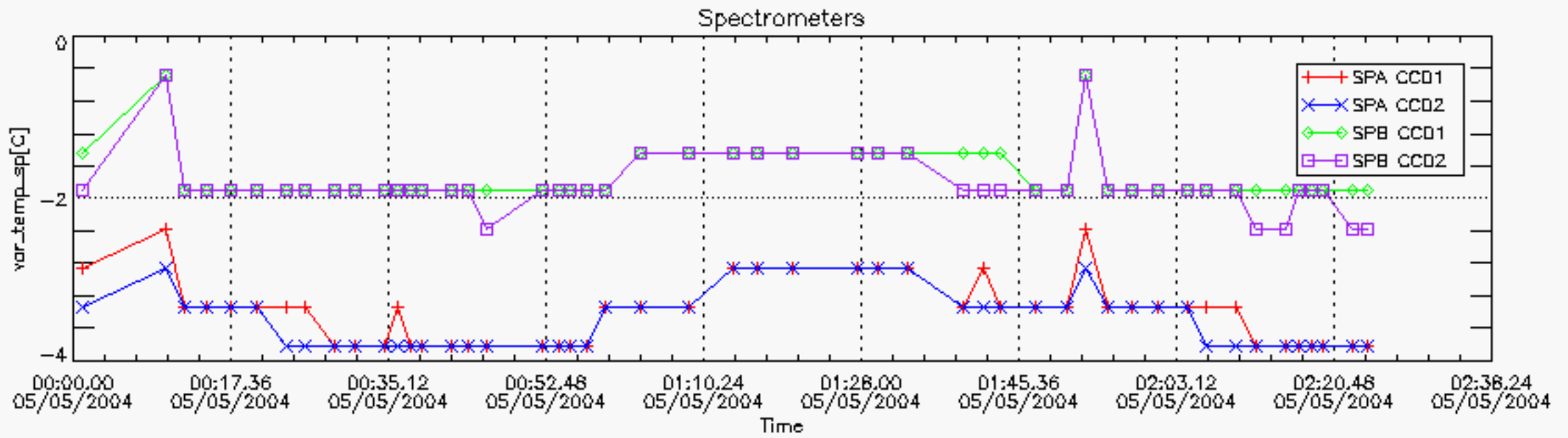
Tangent altitude at which the star is lost

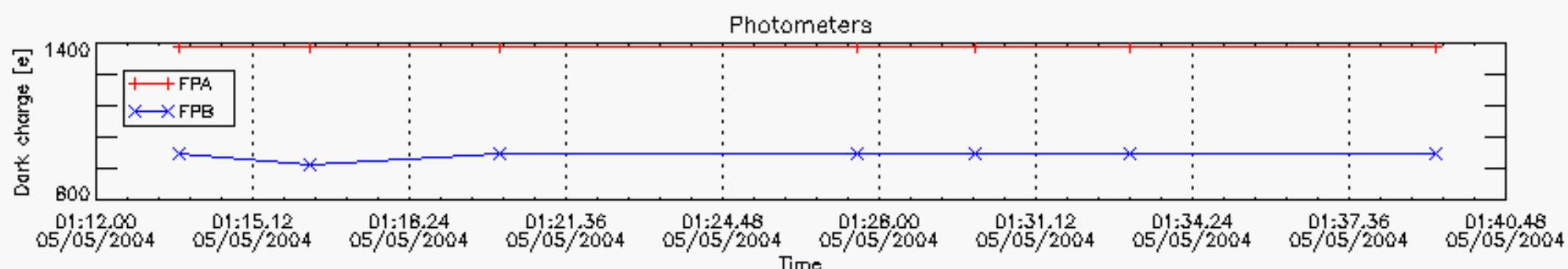
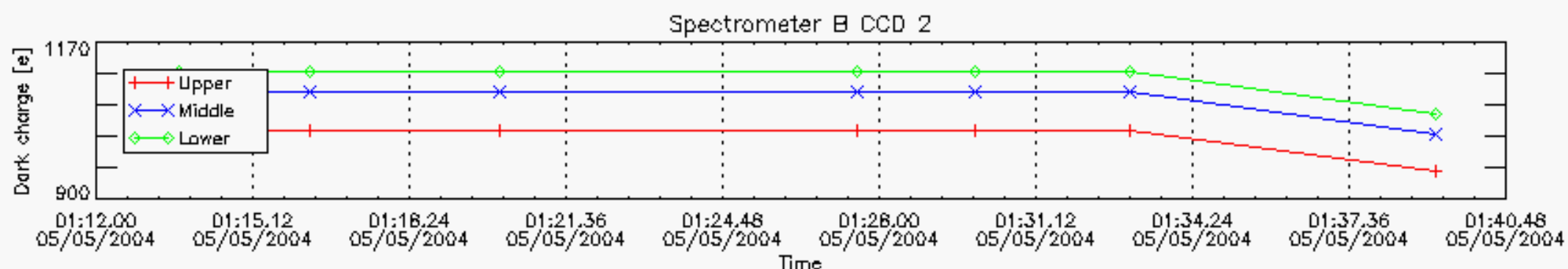
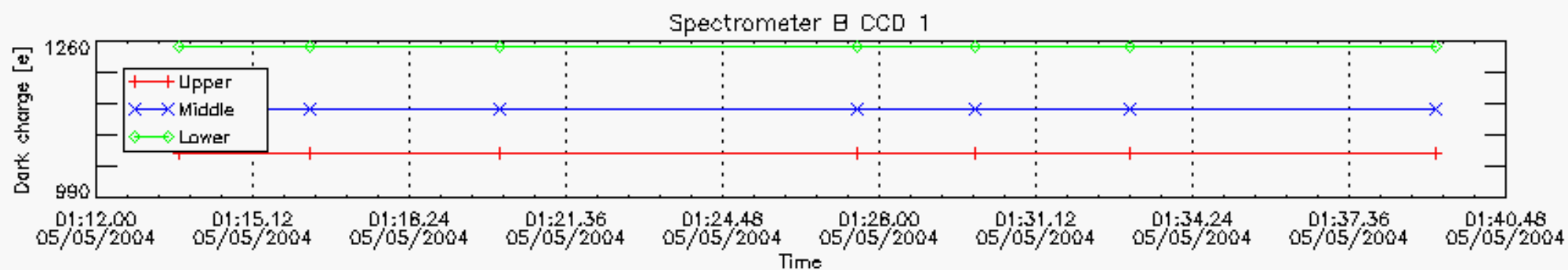
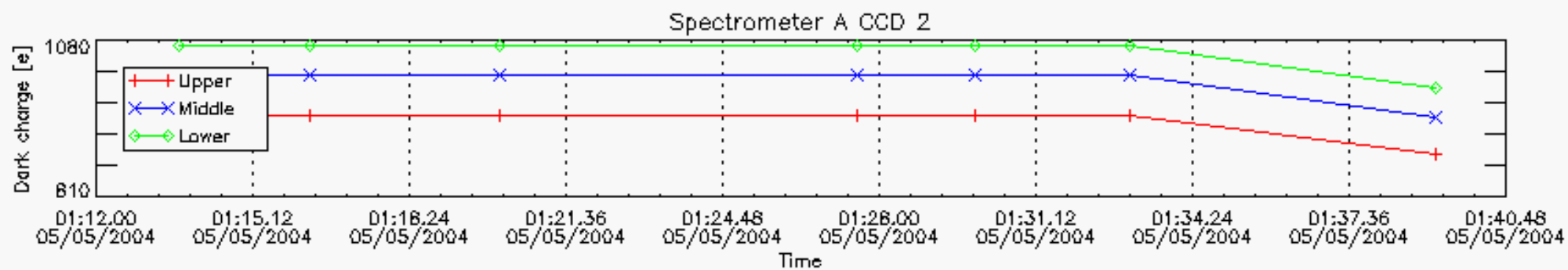
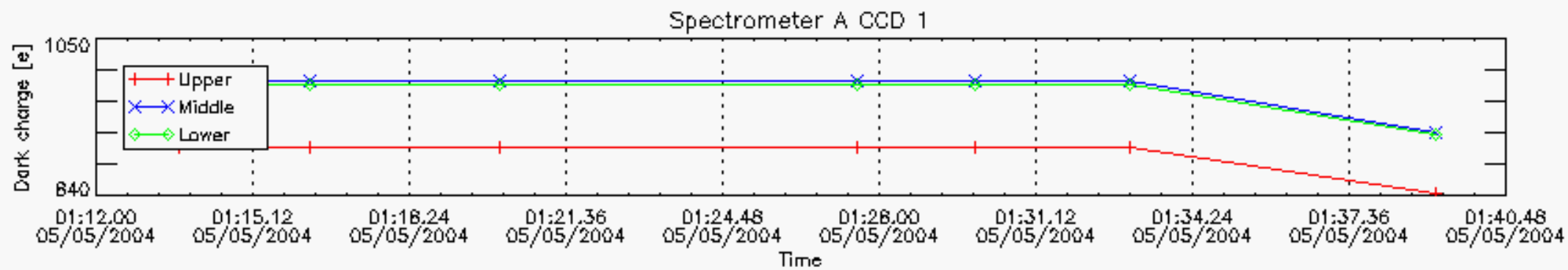


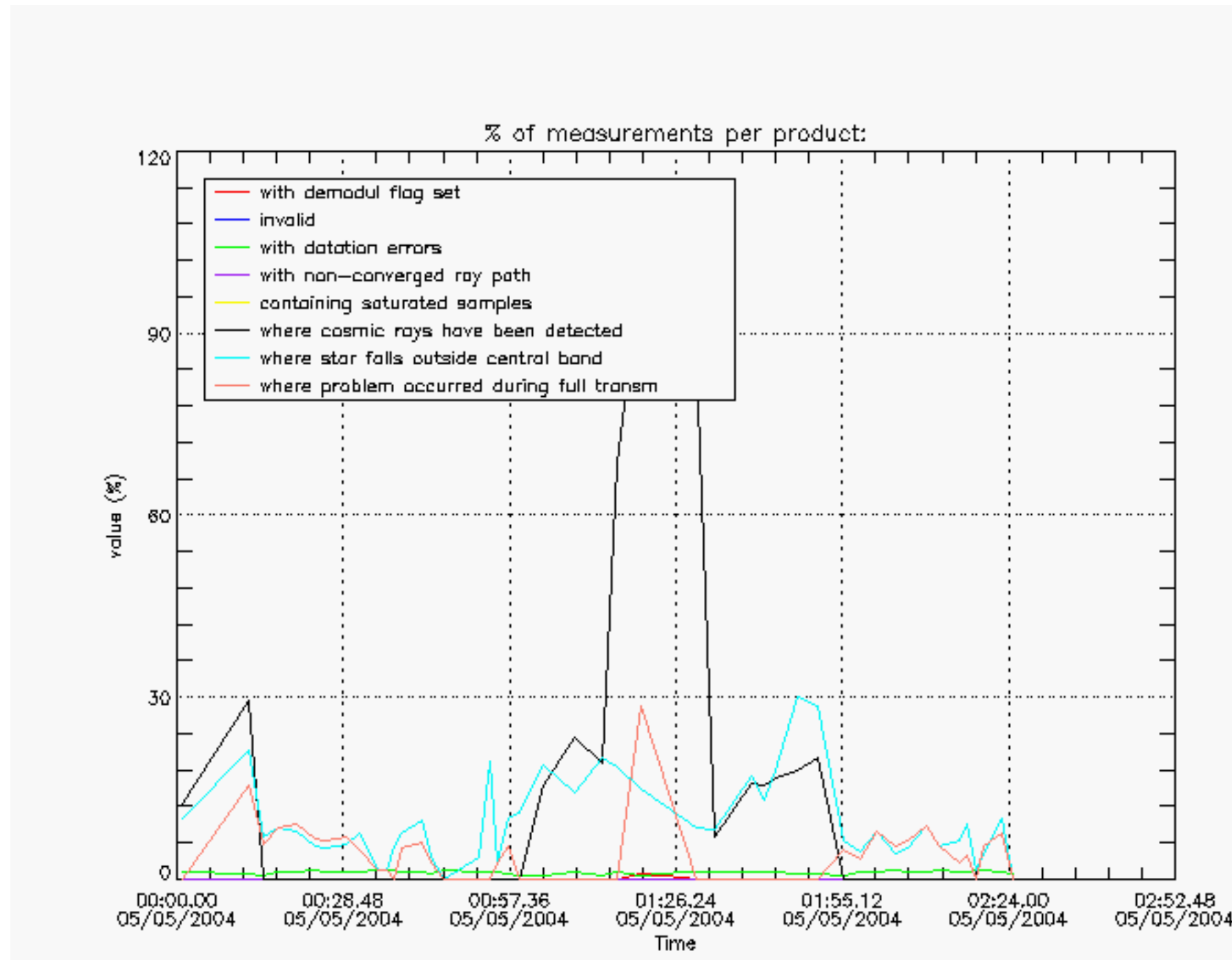
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

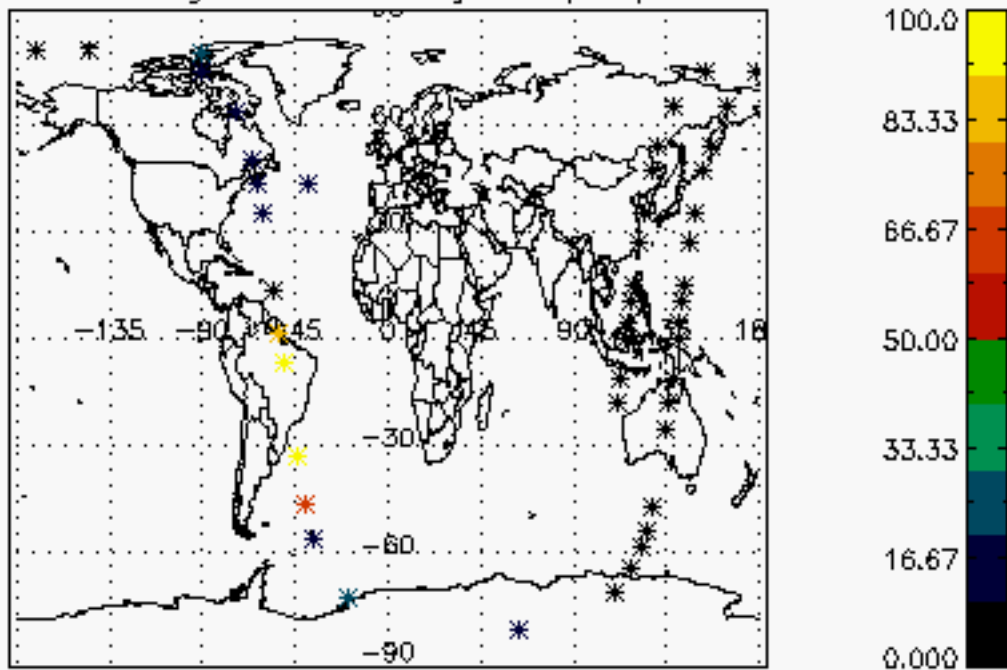
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.0	1447.1	1461.5	1447.5
St. deviation:	4.6301	5.4360	7.3633	8.0936
Maximum:	1730.0	1716.0	1509.0	1502.0
Minimum:	1454.0	1426.0	1441.0	1424.0
Number of data:	9250.0	9250.0	40900.	40900.



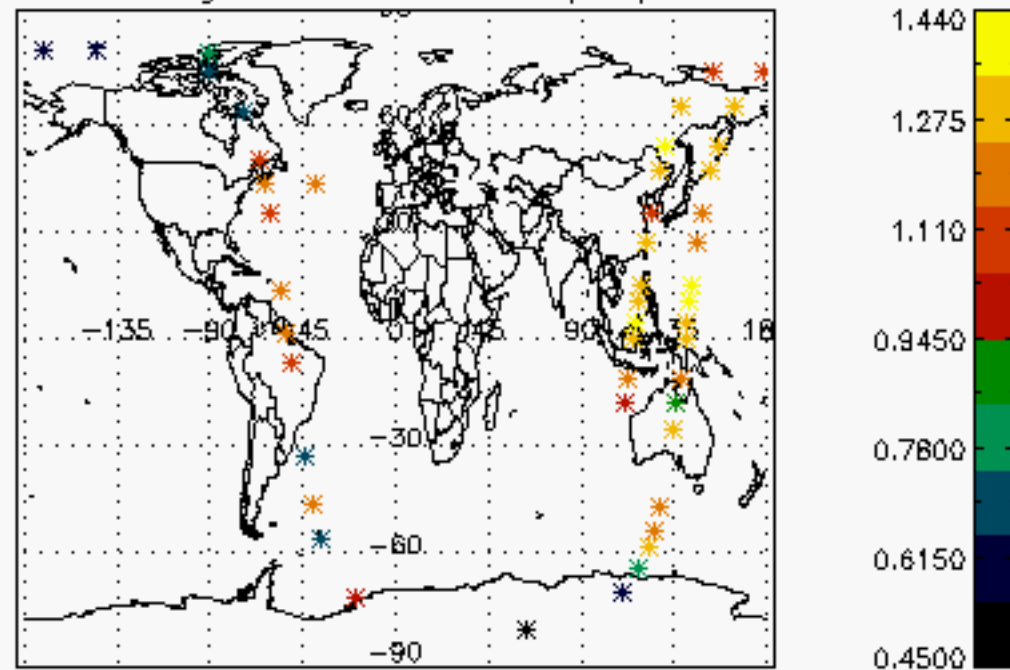




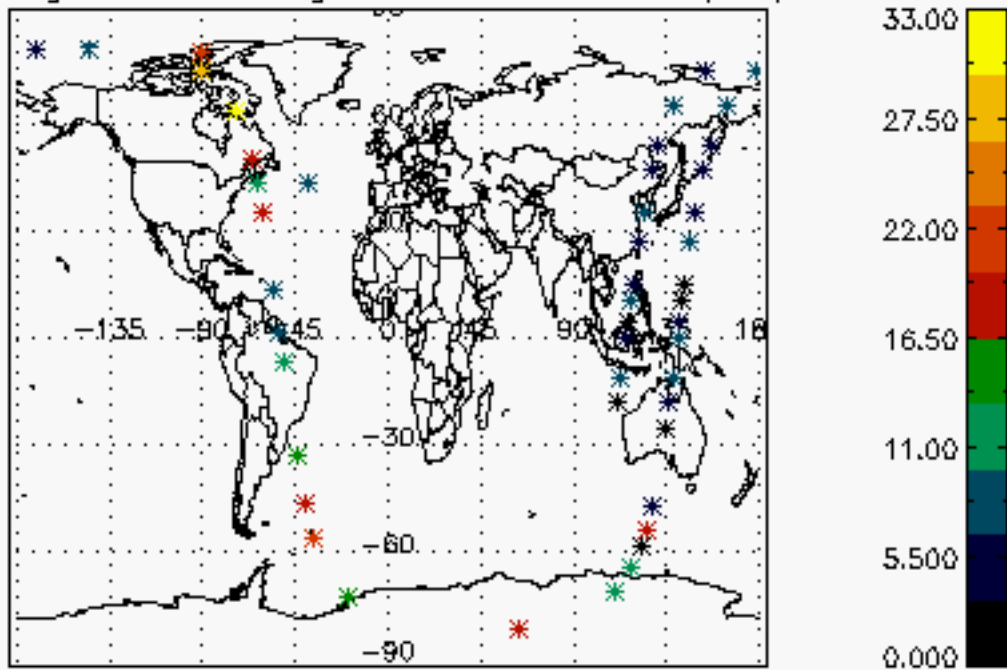
Percentage of cosmic ray hits per profile



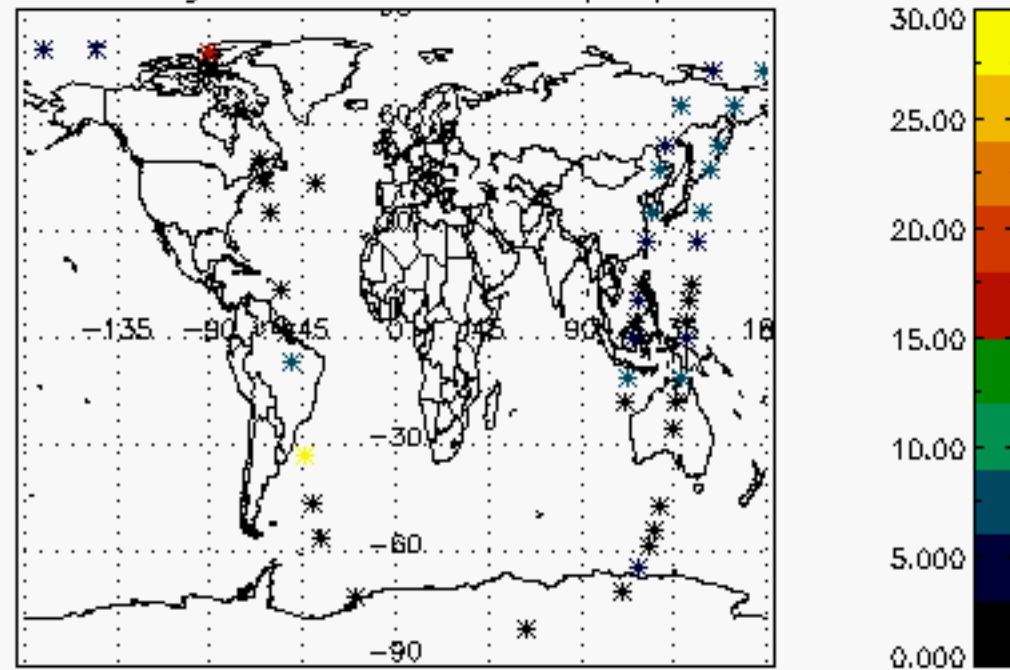
Percentage of datation errors per profile



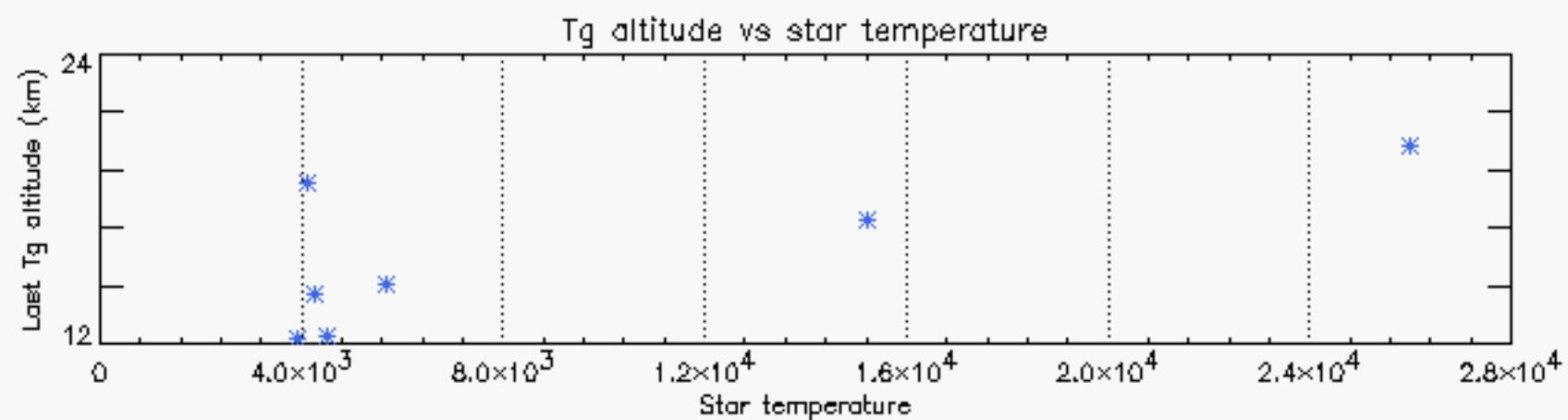
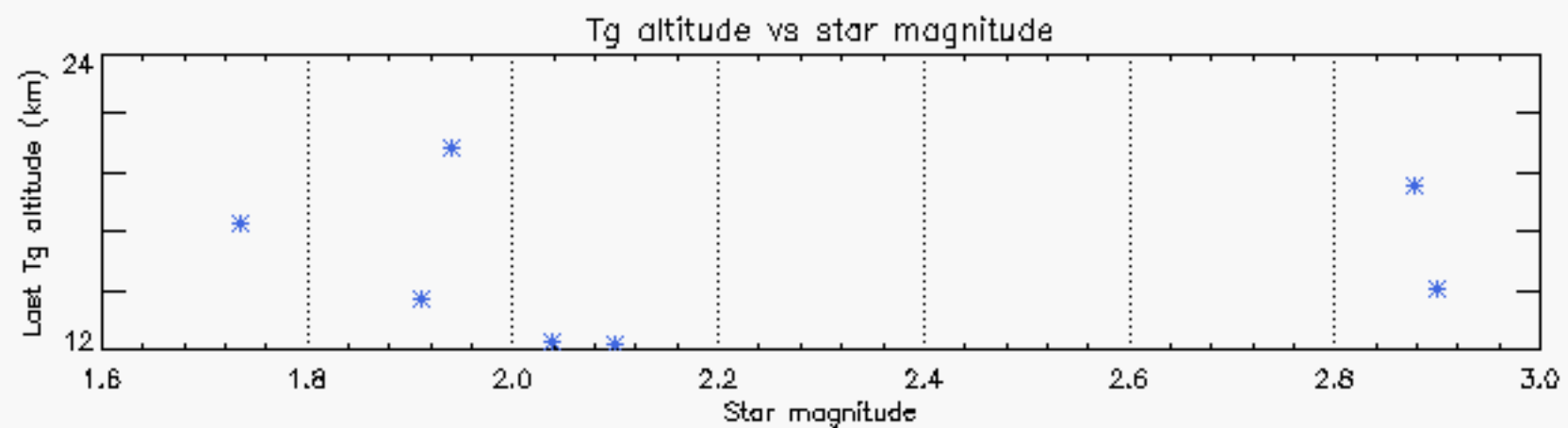
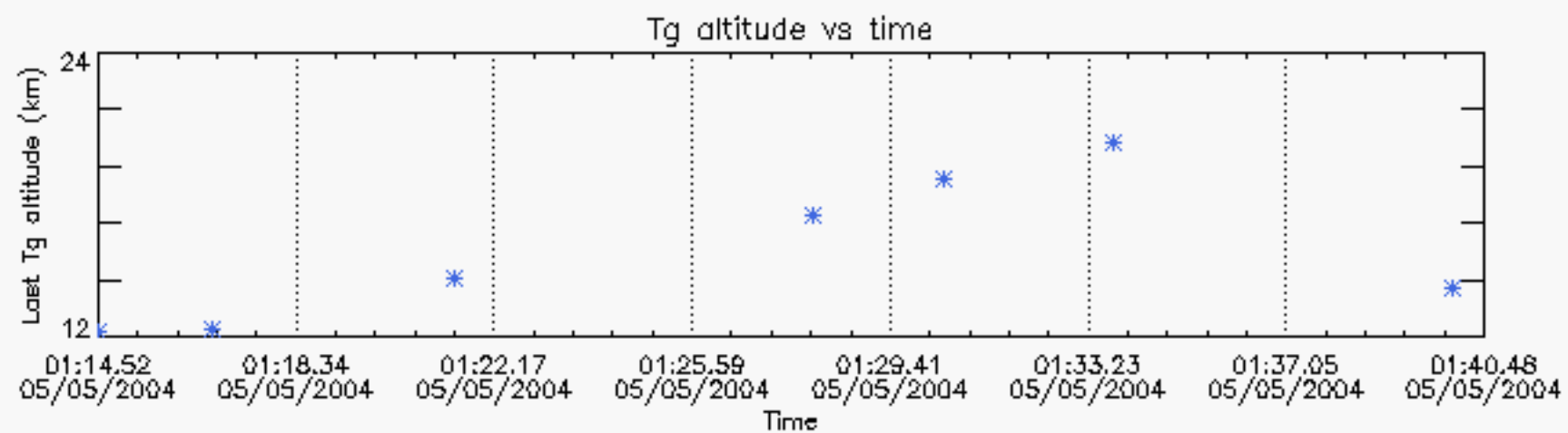
Percentage of star falling outside central band per profile



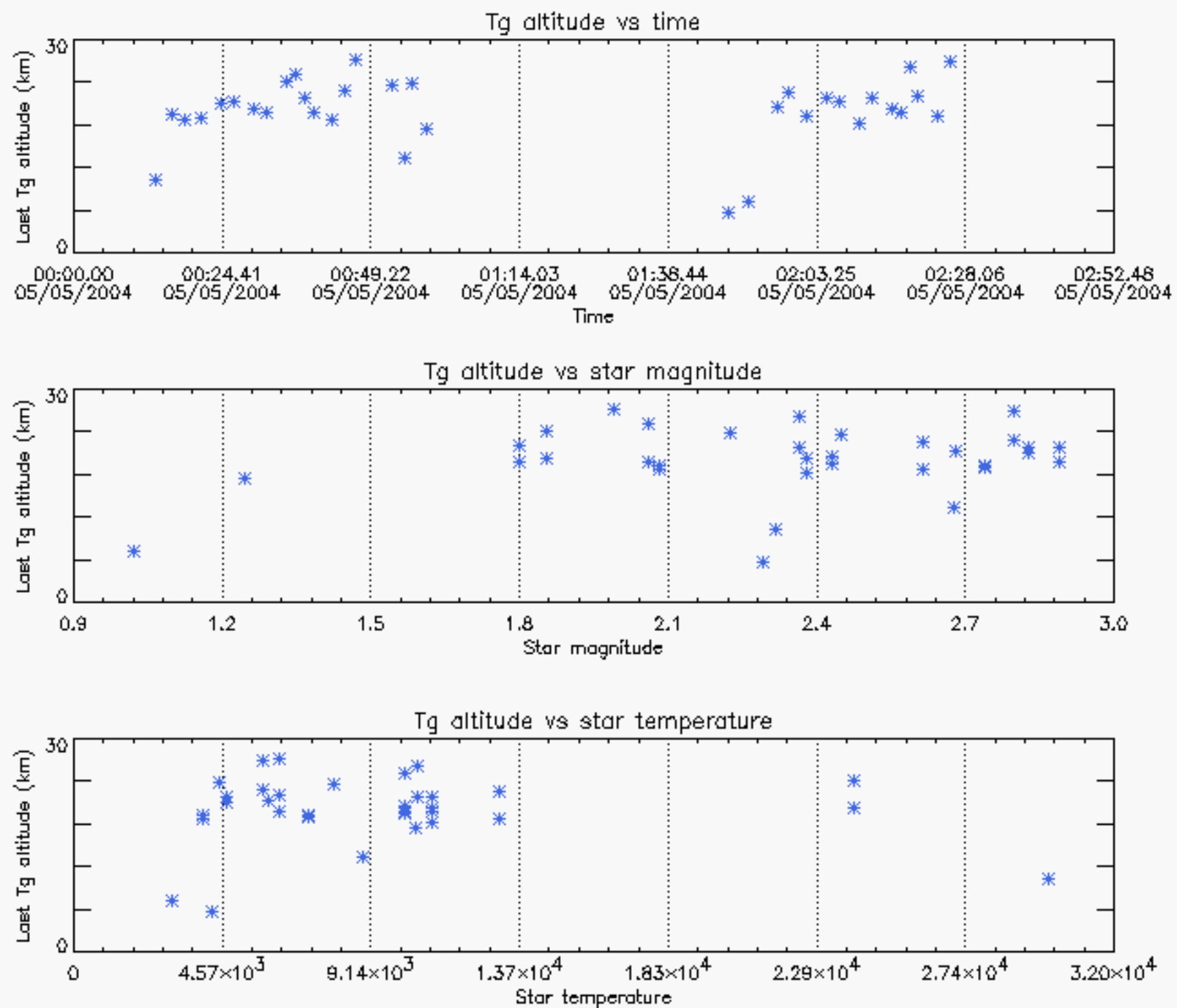
Percentage of saturation errors per profile



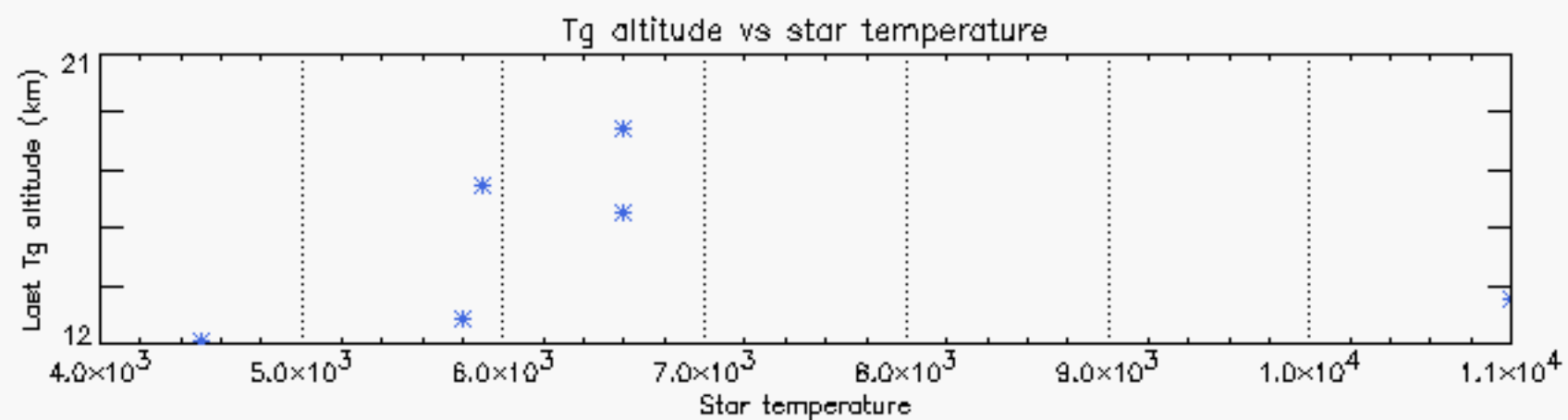
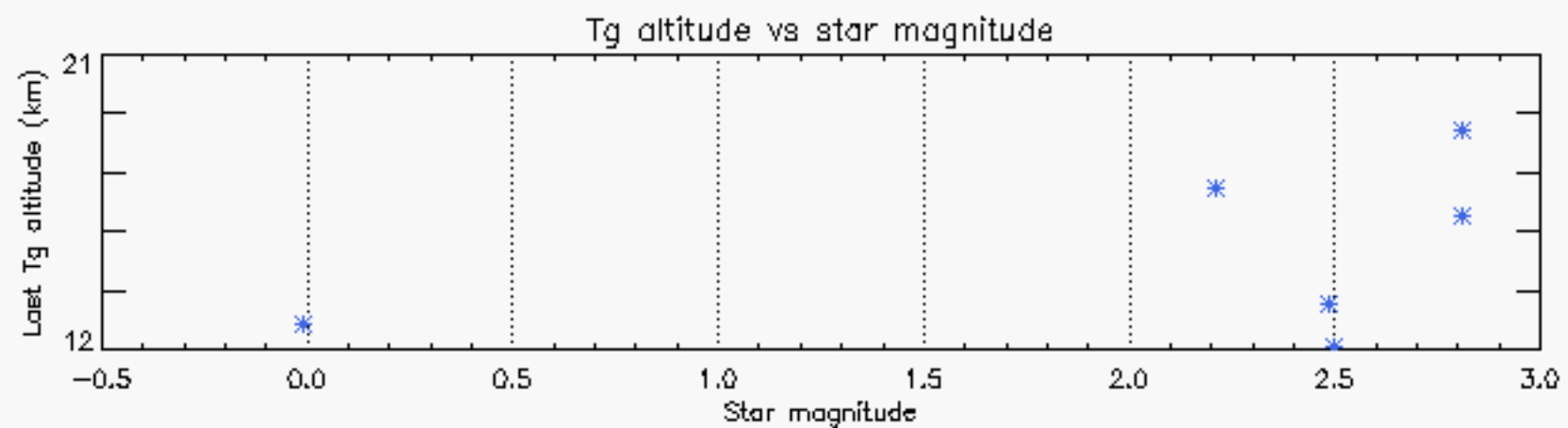
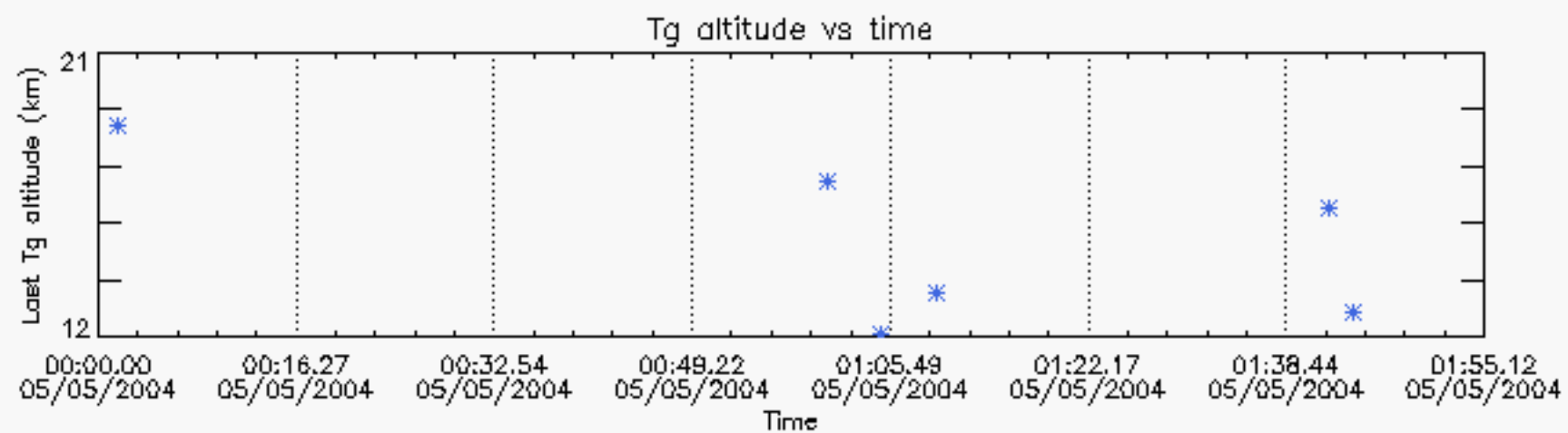
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL__0PNPDK20040501_054516_000060832026_00263_11339_0529.N1

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
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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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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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34; 1096.3; 24-MAY-2004 16:56:03; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;11675
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6;	-4199.1;	24-MAY-2004	17:08:23;	Bright	;	44.0;	120;	1Del	Oph	;	2.73;	3200;	occ;	88;	0;	11675
7;	-4016.1;	24-MAY-2004	17:11:26;	Bright	;	41.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	82;	0;	11675
8;	-3797.8;	24-MAY-2004	17:15:05;	Bright	;	37.0;	3;	16Alp	Boo	;	-0.05;	4250;	occ;	74;	0;	11675
9;	-3668.5;	24-MAY-2004	17:17:14;	Bright	;	37.5;	83;			;	2.38;	11000;	occ;	75;	0;	11675
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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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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
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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
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