

GOMOS Daily Report 06-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	07MAY2004 03:42:35
Data source version	GOMOS/4.02
Start time of products	06-MAY-2004 (06MAY2004 00:00:00)
Stop time of products	07-MAY-2004 (07MAY2004 00:00:00)

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

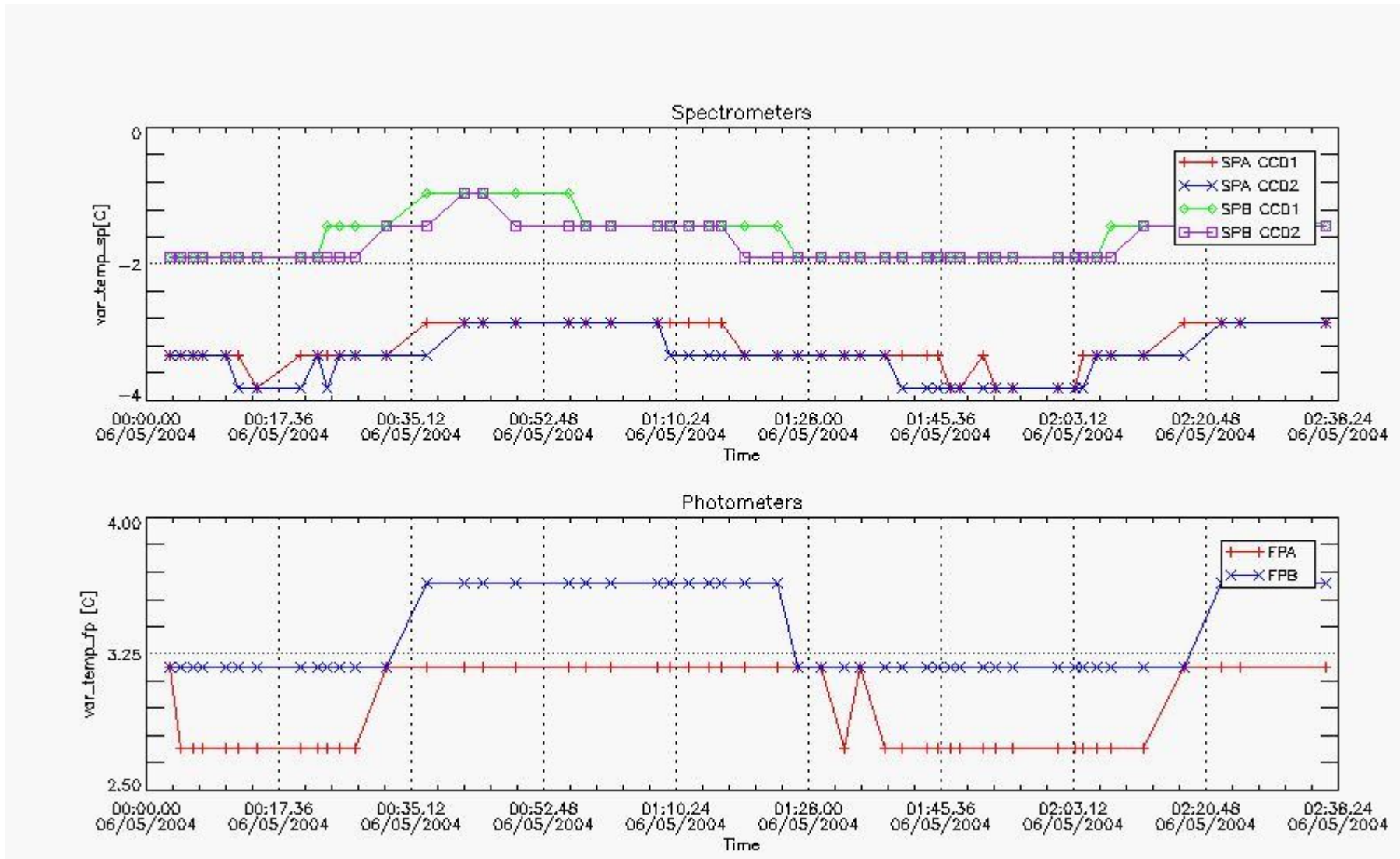
2. Summary of products arrived in PCF

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_1PNPDE20040506_000307_000000372026_00331_11407_0008.N1	06-MAY-2004 00:03:07	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	11407	No
GOM_TRA_1PNPDE20040506_000434_000000362026_00331_11407_0009.N1	06-MAY-2004 00:04:34	Bright	36.000	55	79Zet UMa	2.0600	10200.	72	11407	No
GOM_TRA_1PNPDE20040506_000611_000000382026_00331_11407_0010.N1	06-MAY-2004 00:06:11	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	11407	No
GOM_TRA_1PNPDE20040506_000724_000000422026_00331_11407_0011.N1	06-MAY-2004 00:07:24	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	11407	No
GOM_TRA_1PNPDE20040506_001035_000000402026_00331_11407_0012.N1	06-MAY-2004 00:10:35	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	11407	No
GOM_TRA_1PNPDE20040506_001210_000000552026_00331_11407_0013.N1	06-MAY-2004 00:12:10	Bright	55.000	130	23Bet Dra	2.7990	5800.0	110	11407	No
GOM_TRA_1PNPDE20040506_001436_000000372026_00331_11407_0014.N1	06-MAY-2004 00:14:36	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	11407	No
GOM_TRA_1PNPDE20040506_002035_000000442026_00331_11407_0015.N1	06-MAY-2004 00:20:35	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	11407	No
GOM_TRA_1PNPDE20040506_002242_000000362026_00331_11407_0016.N1	06-MAY-2004 00:22:42	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	11407	No
GOM_TRA_1PNPDE20040506_002355_000000392026_00331_11407_0017.N1	06-MAY-2004 00:23:55	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	11407	No
GOM_TRA_1PNPDE20040506_002540_000000652026_00331_11407_0018.N1	06-MAY-2004 00:25:40	Bright	65.000	19	50Alp Cyg	1.2460	10500.	130	11407	No
GOM_TRA_1PNPDE20040506_002738_000000802026_00331_11407_0019.N1	06-MAY-2004 00:27:38	Twilight	79.500	66	37Gam Cyg	2.2080	5900.0	159	11407	No
GOM_TRA_1PNPDE20040506_003150_000000992026_00331_11407_0020.N1	06-MAY-2004 00:31:50	Twilight	98.500	92	53Eps Cyg	2.5000	4500.0	197	11407	No
GOM_TRA_1PNPDE20040506_003711_000000532026_00331_11407_0021.N1	06-MAY-2004 00:37:11	Twilight	52.500	90	54Alp Peg	2.4870	11000.	105	11407	No
GOM_TRA_1PNPDE20040506_004217_000000822026_00331_11407_0022.N1	06-MAY-2004 00:42:17	Dark	81.500	61	8Eps Peg	2.1000	3900.0	163	11407	No
GOM_TRA_1PNPDE20040506_004446_000000462026_00331_11407_0023.N1	06-MAY-2004 00:44:46	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	11407	No
GOM_TRA_1PNPDE20040506_004900_000000752026_00331_11407_0024.N1	06-MAY-2004 00:49:00	Dark	74.500	154	22Bet Aqr	2.8990	5700.0	149	11407	No
GOM_TRA_1PNPDE20040506_005604_000000452026_00331_11407_0025.N1	06-MAY-2004 00:56:04	Dark	45.000	31	Alp Gru	1.7340	15200.	90	11407	No
GOM_TRA_1PNPDE20040506_005825_000000412026_00332_11408_0026.N1	06-MAY-2004 00:58:25	Dark	41.000	148	Alp Tuc	2.8780	4100.0	82	11408	No
GOM_TRA_1PNPDE20040506_010138_000000442026_00332_11408_0027.N1	06-MAY-2004 01:01:38	Dark	44.000	45	Alp Pav	1.9400	26000.	88	11408	No
GOM_TRA_1PNPDE20040506_010750_000000432026_00332_11408_0028.N1	06-MAY-2004 01:07:50	Dark	43.000	43	Alp TrA	1.9100	4250.0	86	11408	No
GOM_TRA_1PNPDE20040506_010929_000000402026_00332_11408_0029.N1	06-MAY-2004 01:09:29	Dark	39.500	145	Gam TrA	2.8720	10600.	79	11408	No
GOM_TRA_1PNPDE20040506_011158_000000472026_00332_11408_0030.N1	06-MAY-2004 01:11:58	Twilight	47.000	4	Alp1Cen	-0.010000	5800.0	94	11408	No
GOM_TRA_1PNPDE20040506_011439_000000412026_00332_11408_0031.N1	06-MAY-2004 01:14:39	Bright	40.500	77	Eps Cen	2.3030	28000.	81	11408	No
GOM_TRA_1PNPDE20040506_011618_000000422026_00332_11408_0032.N1	06-MAY-2004 01:16:18	Bright	42.000	109	Bet Lup	2.6770	26000.	84	11408	No
GOM_TRA_1PNPDE20040506_011928_000000752026_00332_11408_0033.N1	06-MAY-2004 01:19:28	Bright	74.500	16	21Alp Sco	1.0200	3000.0	149	11408	No
GOM_TRA_1PNPDE20040506_012352_000000832026_00332_11408_0000.N1	06-MAY-2004 01:23:52	Bright	83.000	86	35Eta Oph	2.4300	10200.	166	11408	No
GOM_TRA_1PNPDE20040506_012632_000000462026_00332_11408_0001.N1	06-MAY-2004 01:26:32	Bright	46.000	104	27Bet Lib	2.6140	13100.	92	11408	No
GOM_TRA_1PNPDE20040506_012938_000000382026_00332_11408_0002.N1	06-MAY-2004 01:29:38	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	11408	No
GOM_TRA_1PNPDE20040506_013249_000000382026_00332_11408_0003.N1	06-MAY-2004 01:32:49	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	11408	No
GOM_TRA_1PNPDE20040506_013450_000000392026_00332_11408_0004.N1	06-MAY-2004 01:34:50	Bright	39.000	111	8Eta Boo	2.6800	6000.0	78	11408	No
GOM_TRA_1PNPDE20040506_013808_000000432026_00332_11408_0005.N1	06-MAY-2004 01:38:08	Bright	42.500	83		2.3780	11000.	85	11408	No
GOM_TRA_1PNPDE20040506_014029_000000362026_00332_11408_0006.N1	06-MAY-2004 01:40:29	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	11408	No
GOM_TRA_1PNPDE20040506_014343_000000402026_00332_11408_0007.N1	06-MAY-2004 01:43:43	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	11408	No
GOM_TRA_1PNPDE20040506_014509_000000382026_00332_11408_0008.N1	06-MAY-2004 01:45:09	Bright	37.500	55	79Zet UMa	2.0600	10200.	75	11408	No
GOM_TRA_1PNPDE20040506_014648_000000362026_00332_11408_0009.N1	06-MAY-2004 01:46:48	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	11408	No
GOM_TRA_1PNPDE20040506_014800_000000422026_00332_11408_0010.N1	06-MAY-2004 01:48:00	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	11408	No
GOM_TRA_1PNPDE20040506_015111_000000402026_00332_11408_0011.N1	06-MAY-2004 01:51:11	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	11408	No
GOM_TRA_1PNPDE20040506_015244_000000522026_00332_11408_0012.N1	06-MAY-2004 01:52:44	Bright	51.500	130	23Bet Dra	2.7990	5800.0	103	11408	No
GOM_TRA_1PNPDE20040506_015512_000000352026_00332_11408_0013.N1	06-MAY-2004 01:55:12	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	11408	No
GOM_TRA_1PNPDE20040506_020110_000000442026_00332_11408_0014.N1	06-MAY-2004 02:01:10	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	11408	No
GOM_TRA_1PNPDE20040506_020318_000000382026_00332_11408_0015.N1	06-MAY-2004 02:03:18	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	11408	No
GOM_TRA_1PNPDE20040506_020431_000000392026_00332_11408_0016.N1	06-MAY-2004 02:04:31	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	11408	No
GOM_TRA_1PNPDE20040506_020615_000000682026_00332_11408_0017.N1	06-MAY-2004 02:06:15	Bright	68.000	19	50Alp Cyg	1.2460	10500.	136	11408	No
GOM_TRA_1PNPDE20040506_020814_000000852026_00332_11408_0018.N1	06-MAY-2004 02:08:14	Twilight	85.000	66	37Gam Cyg	2.2080	5900.0	170	11408	No
GOM_TRA_1PNPDE20040506_021226_000000942026_00332_11408_0019.N1	06-MAY-2004 02:12:26	Twilight	93.500	92	53Eps Cyg	2.5000	4500.0	187	11408	No
GOM_TRA_1PNPDE20040506_021748_000000502026_00332_11408_0020.N1	06-MAY-2004 02:17:48	Twilight	49.500	90	54Alp Peg	2.4870	11000.	99	11408	No
GOM_TRA_1PNPDE20040506_022255_000000752026_00332_11408_0021.N1	06-MAY-2004 02:22:55	Dark	75.000	61	8Eps Peg	2.1000	3900.0	150	11408	No
GOM_TRA_1PNPDE20040506_022521_000000432026_00332_11408_0022.N1	06-MAY-2004 02:25:21	Dark	43.000	52	16Bet Cet	2.0370	4500.0	86	11408	No

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



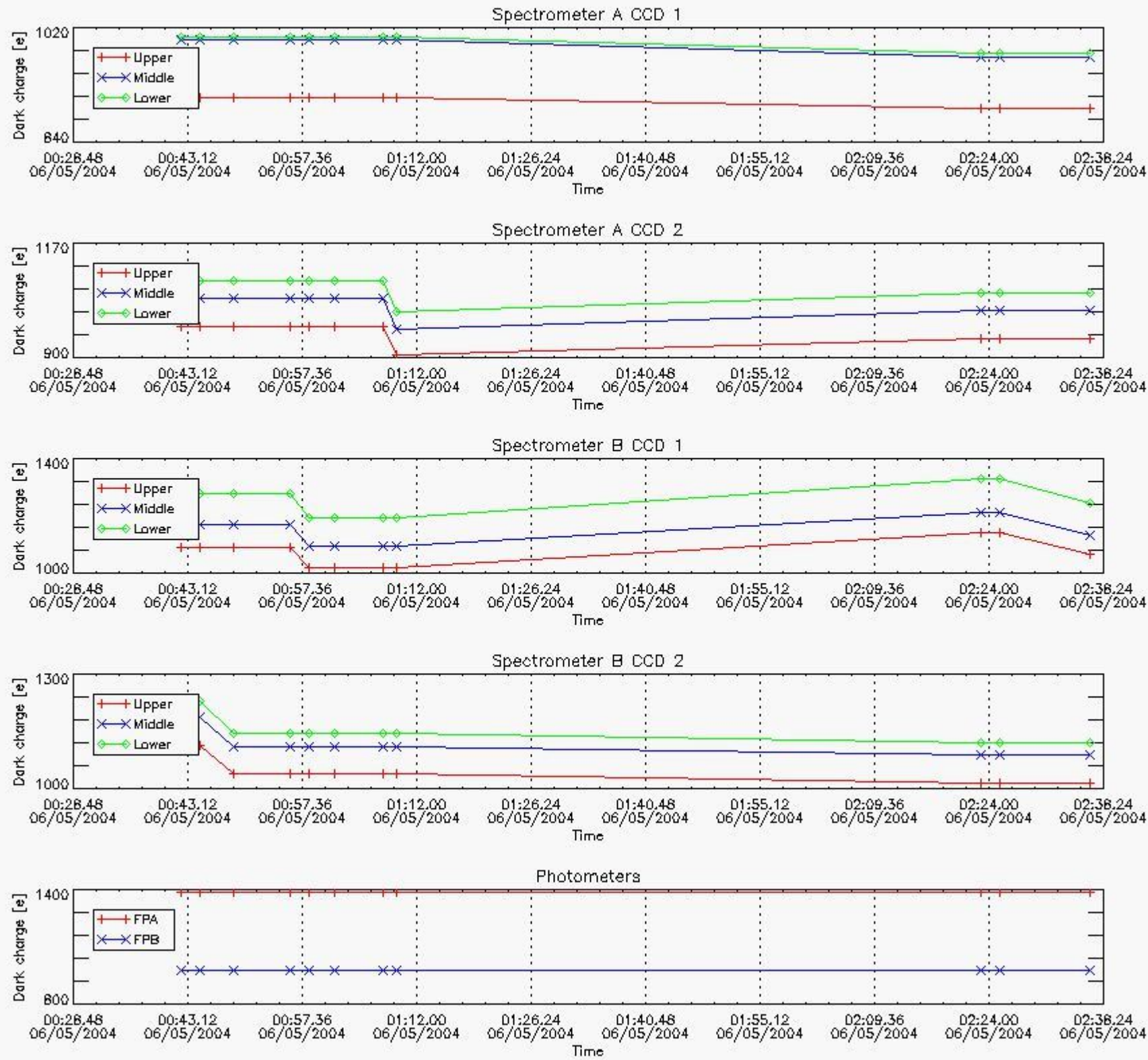
4. Overview of dark signal processing per product

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



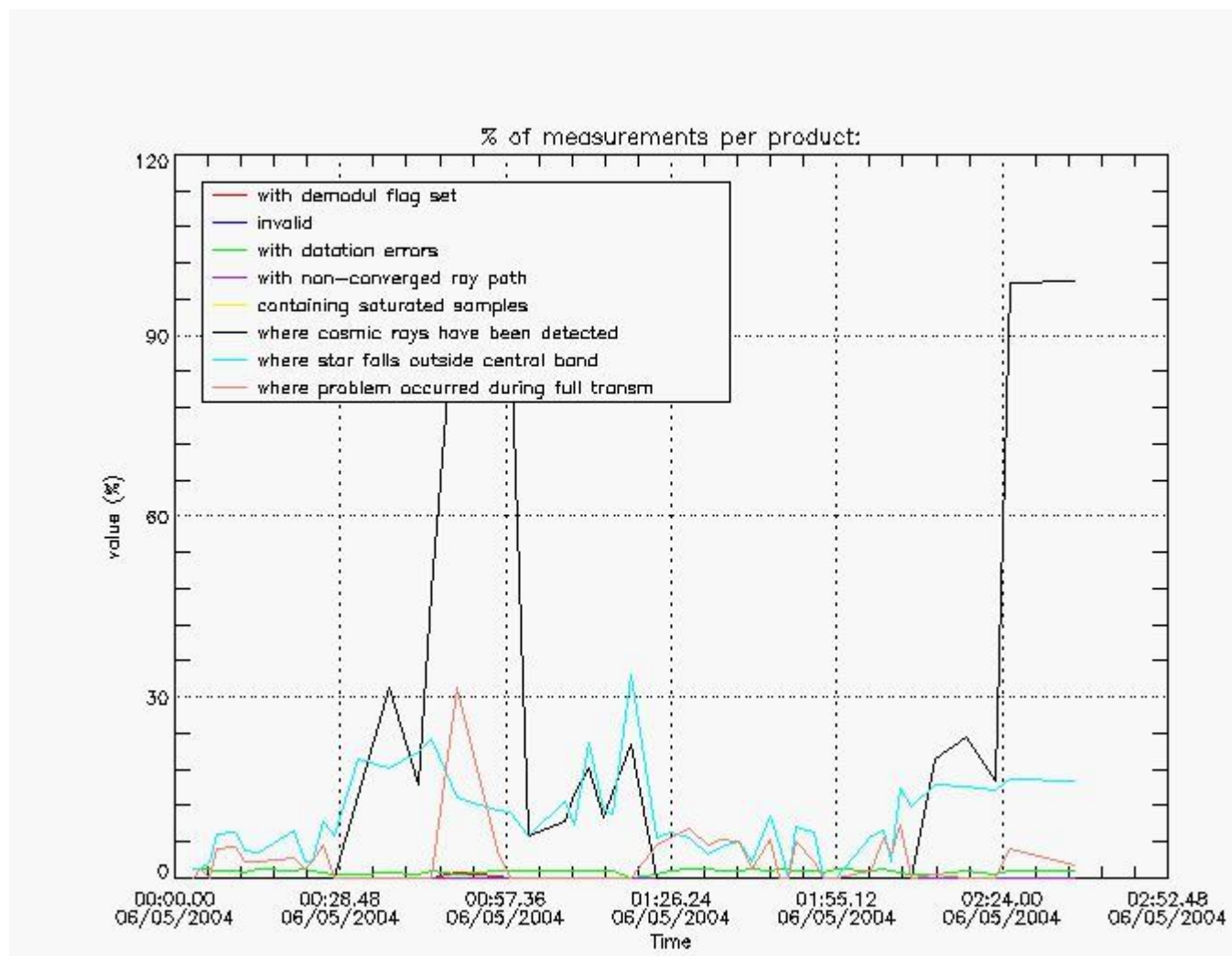
5. Demodulation flag and quality information monitoring

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:

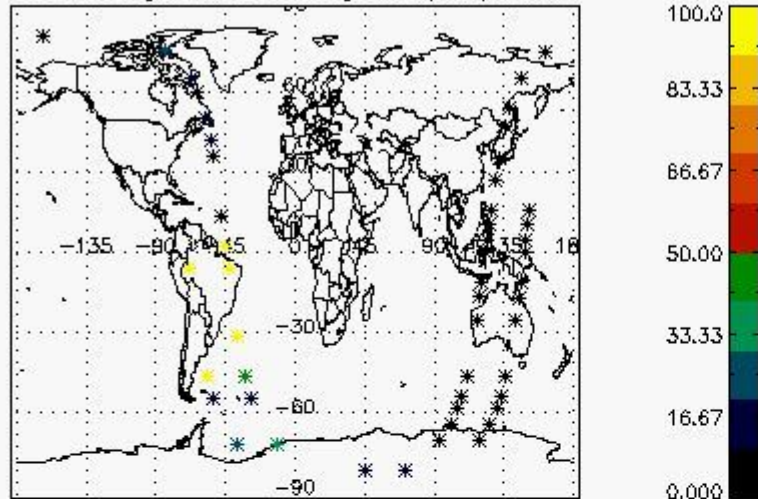
At least one measurement with demodulation flag set:	10.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

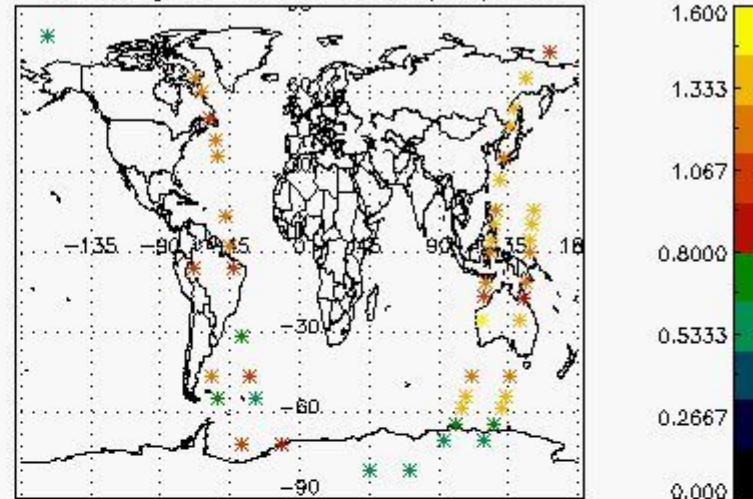


5.3 Plot quality information per product (world map)

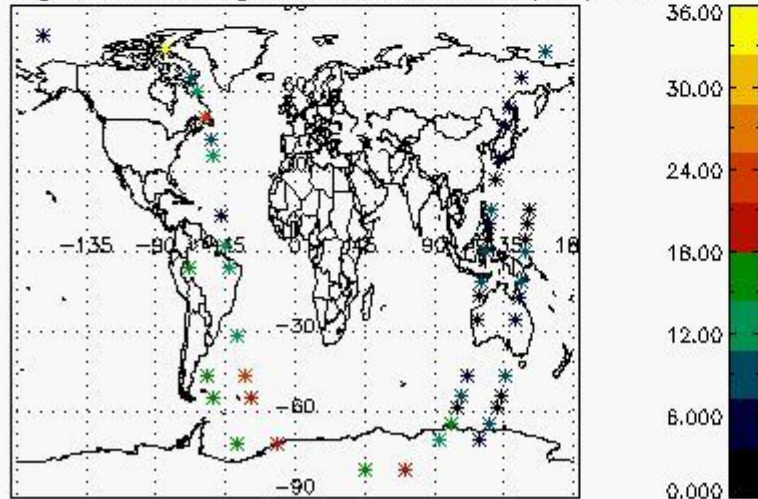
Percentage of cosmic ray hits per profile



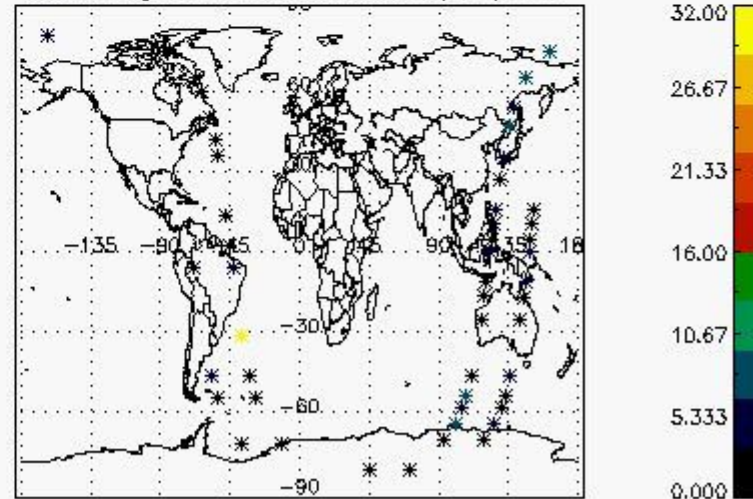
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



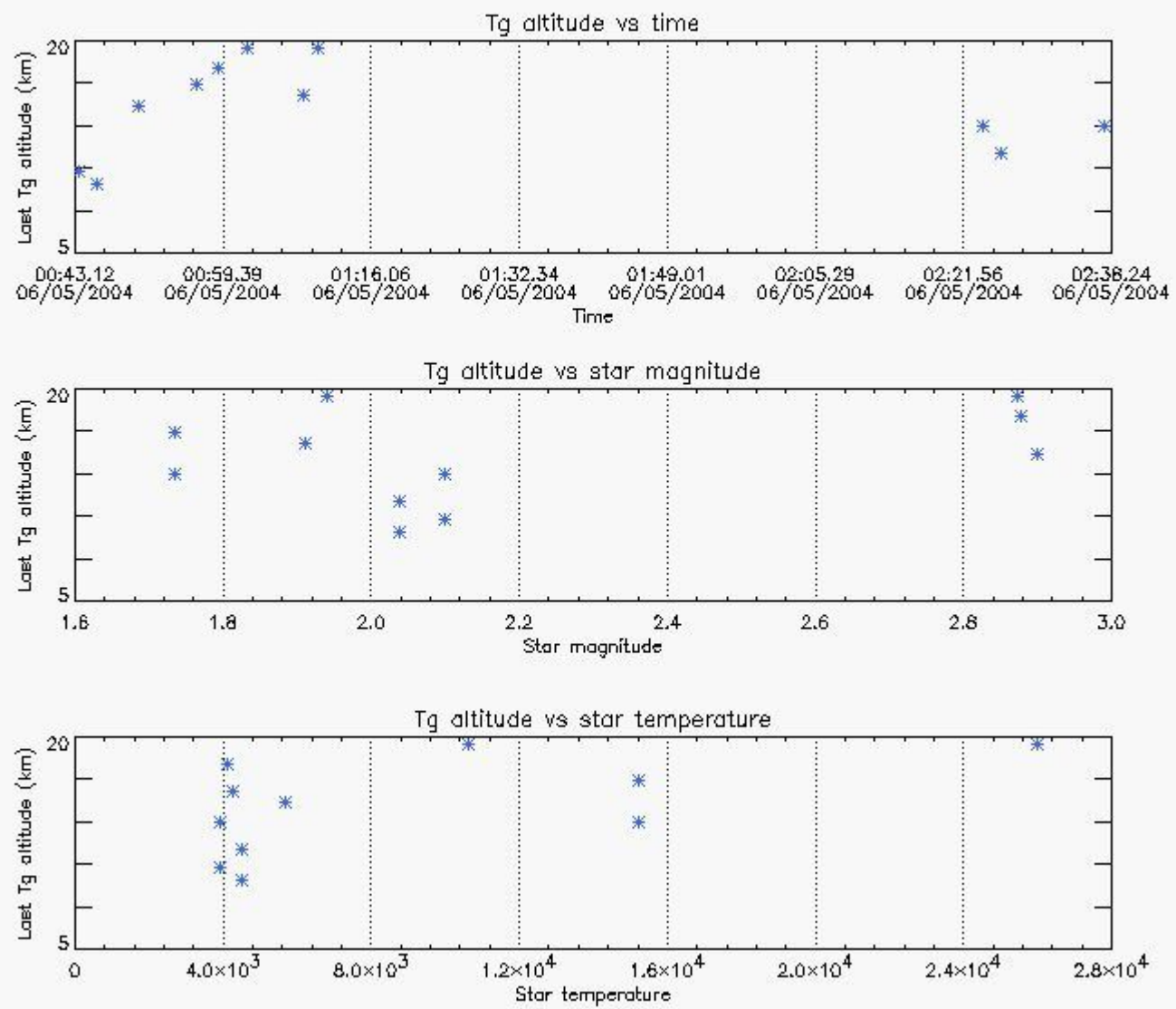
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.108	21.146	13.727
St. deviation:	3.3221	4.1872	3.1243
Maximum:	19.504	27.522	19.559
Minimum:	9.8362	5.2536	10.209
Number of data:	11.000	32.000	7.0000

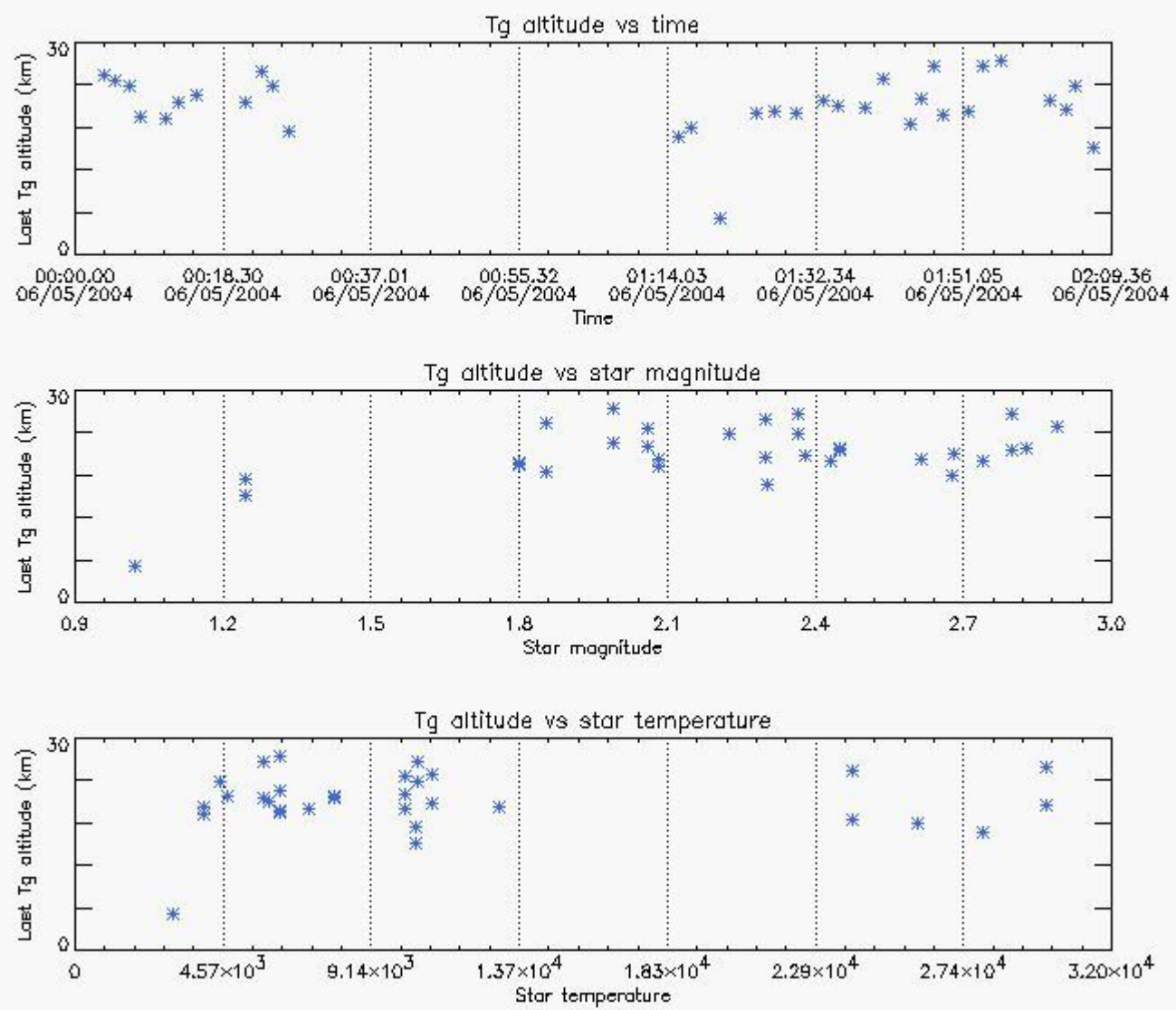
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



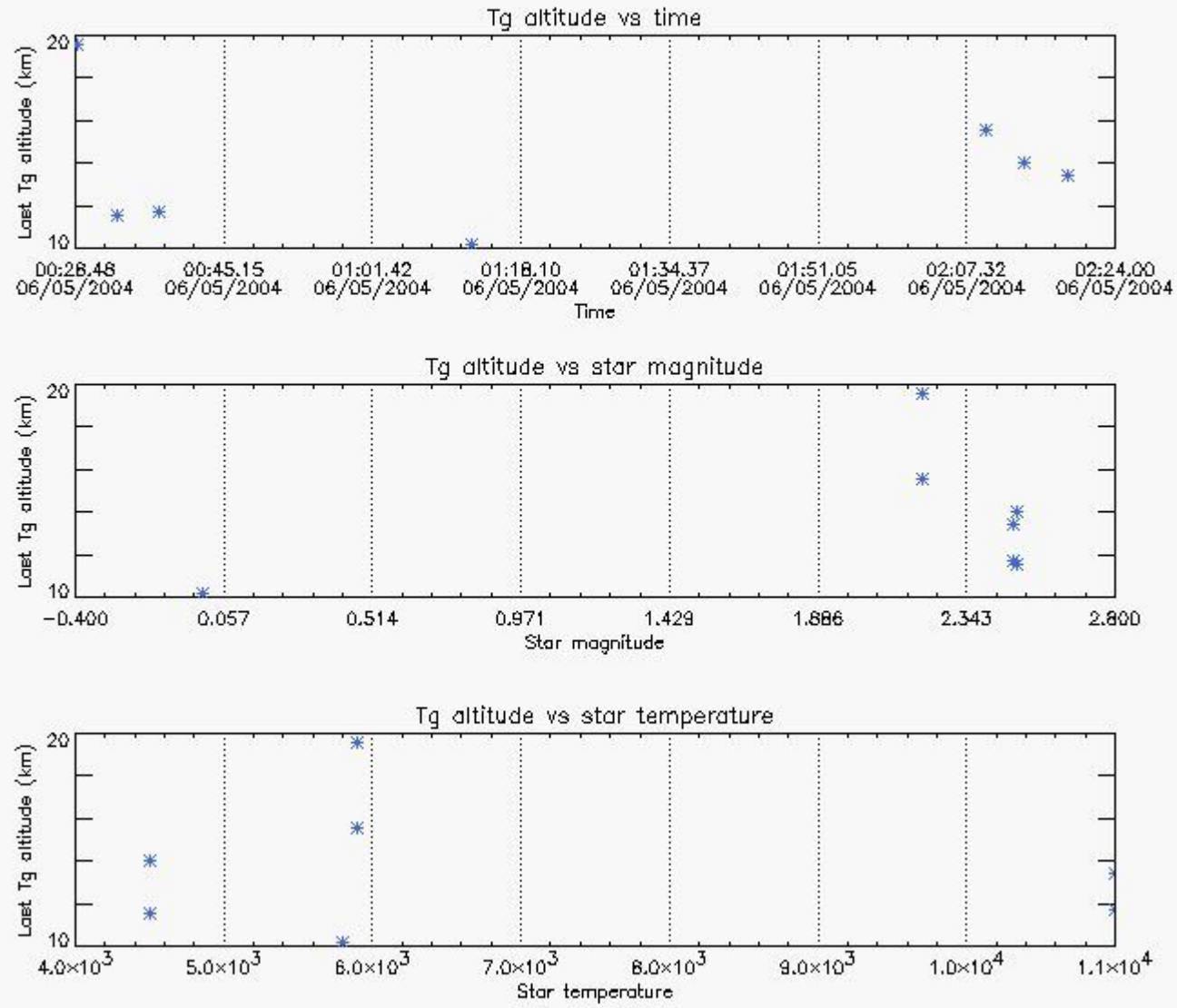
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

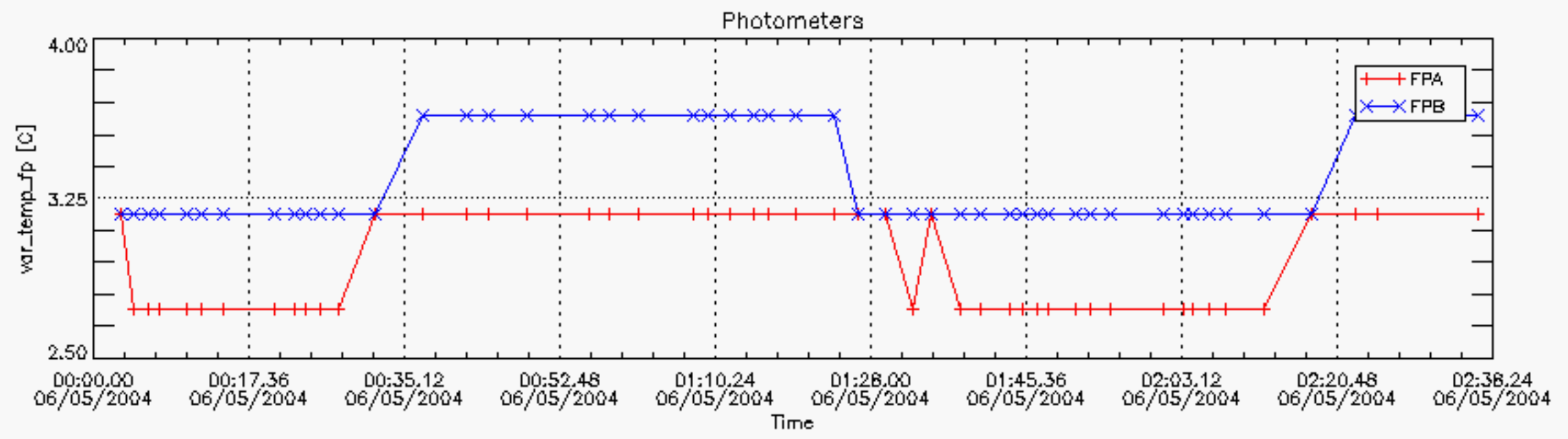
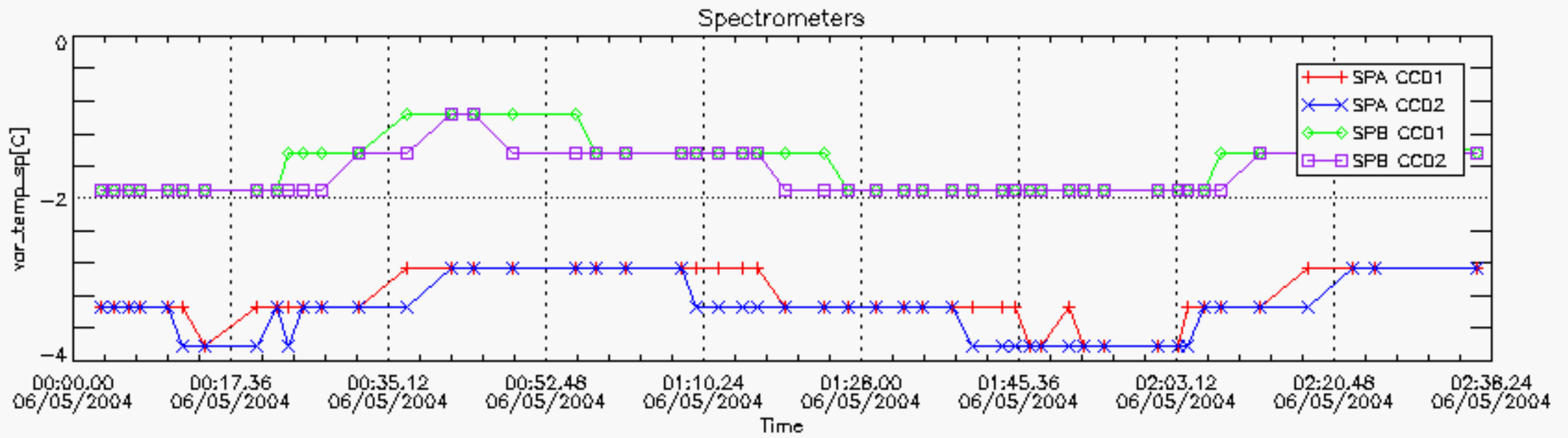
Tangent altitude at which the star is lost

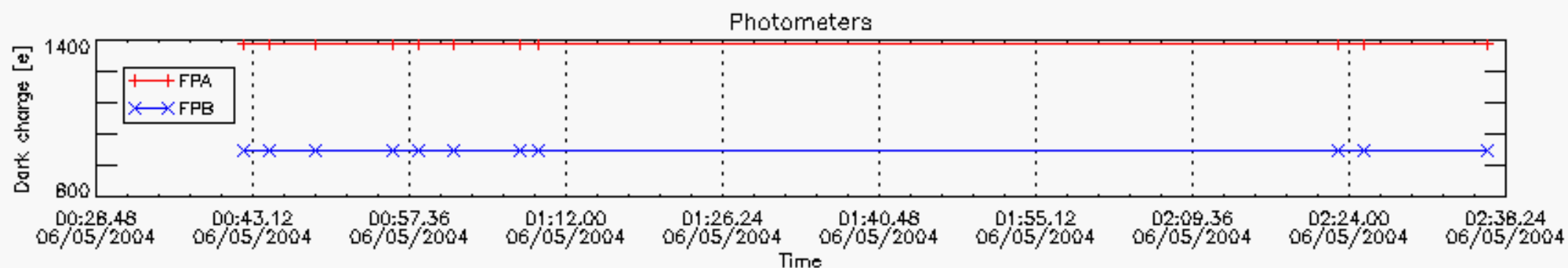
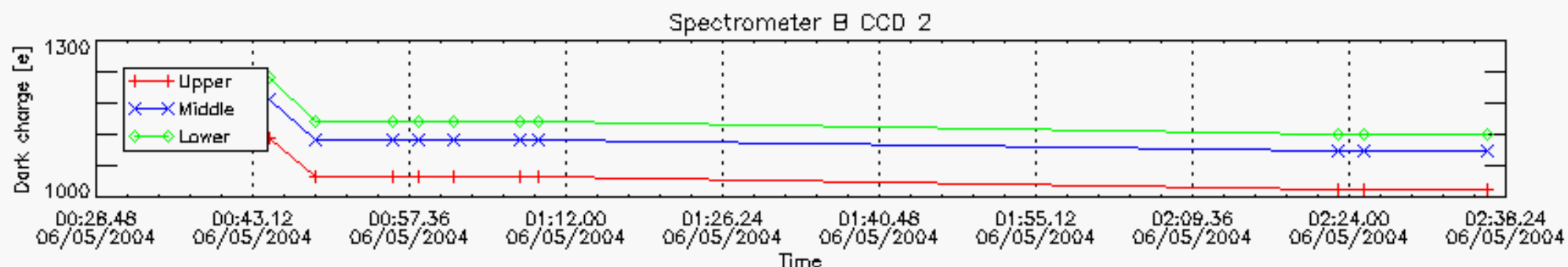
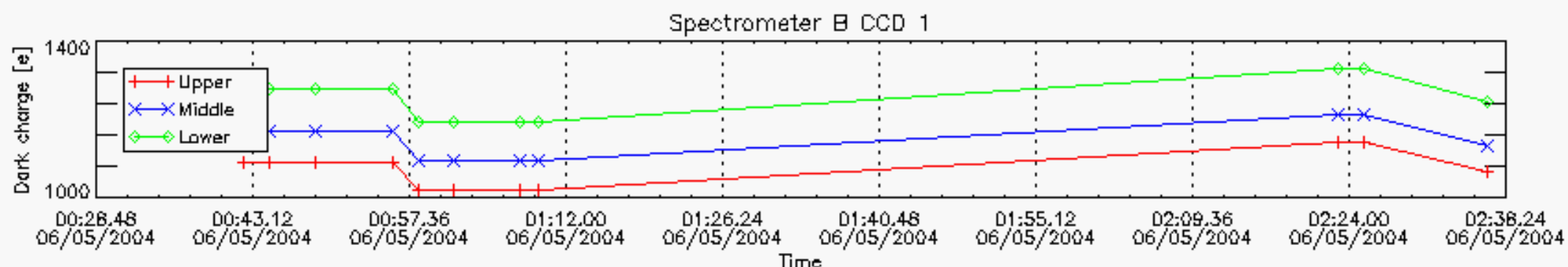
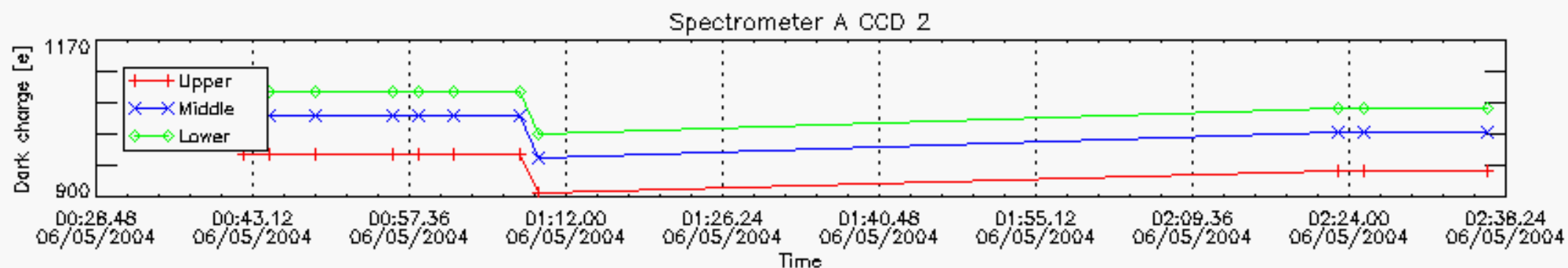
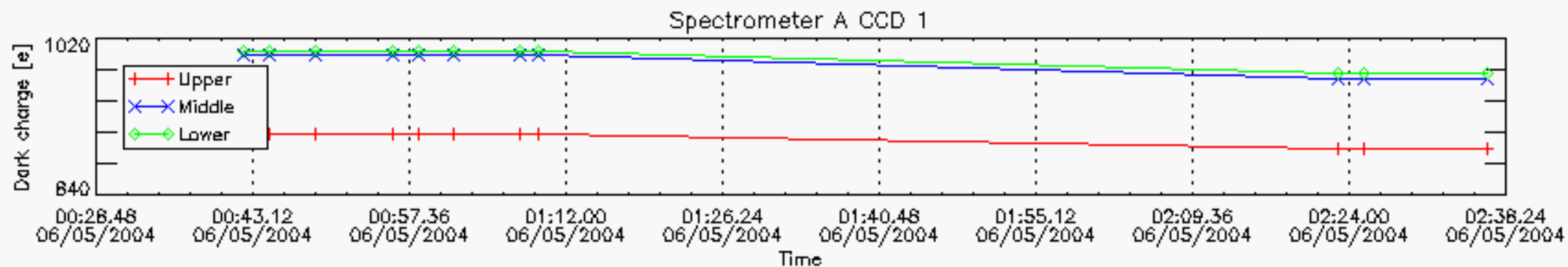


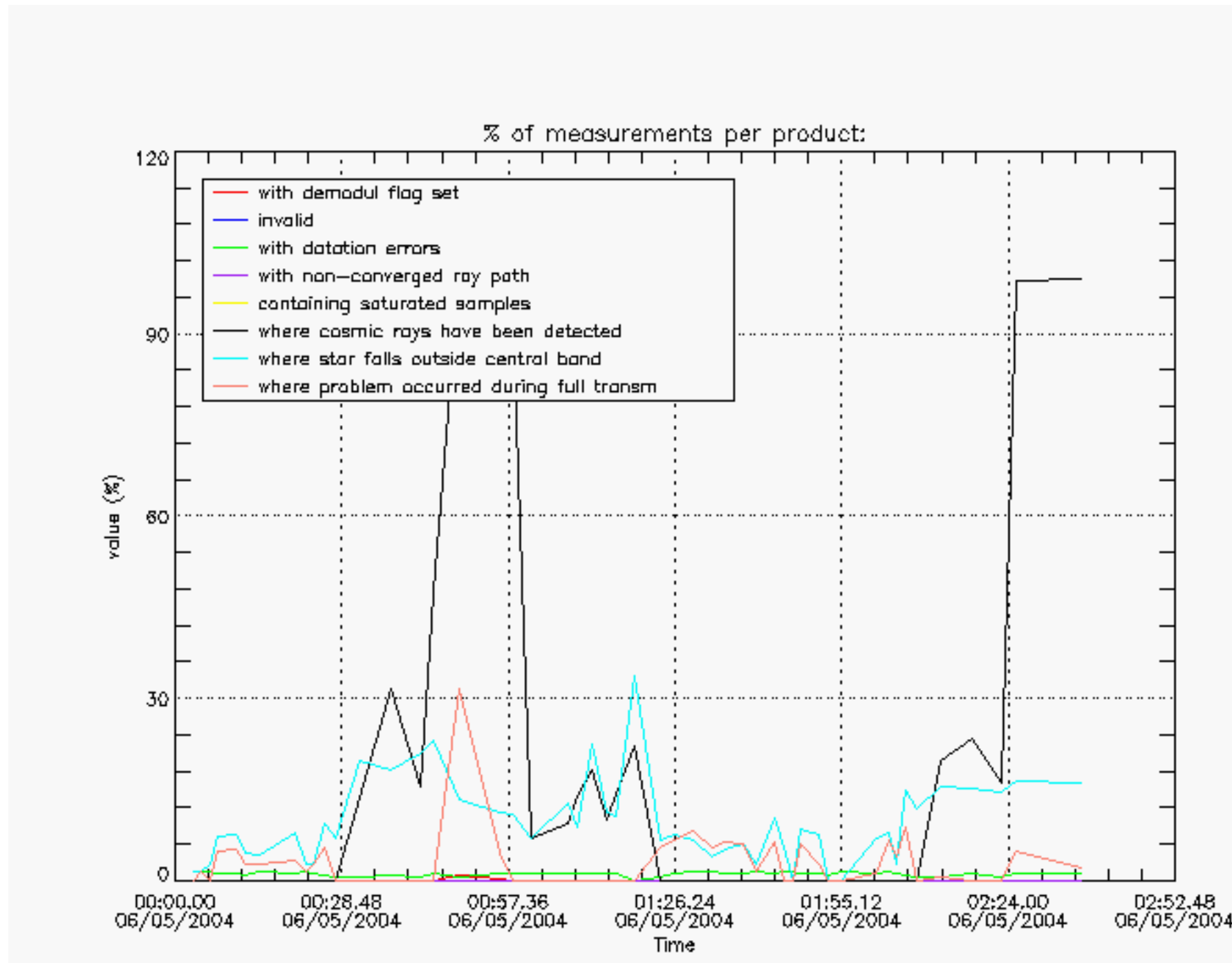
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

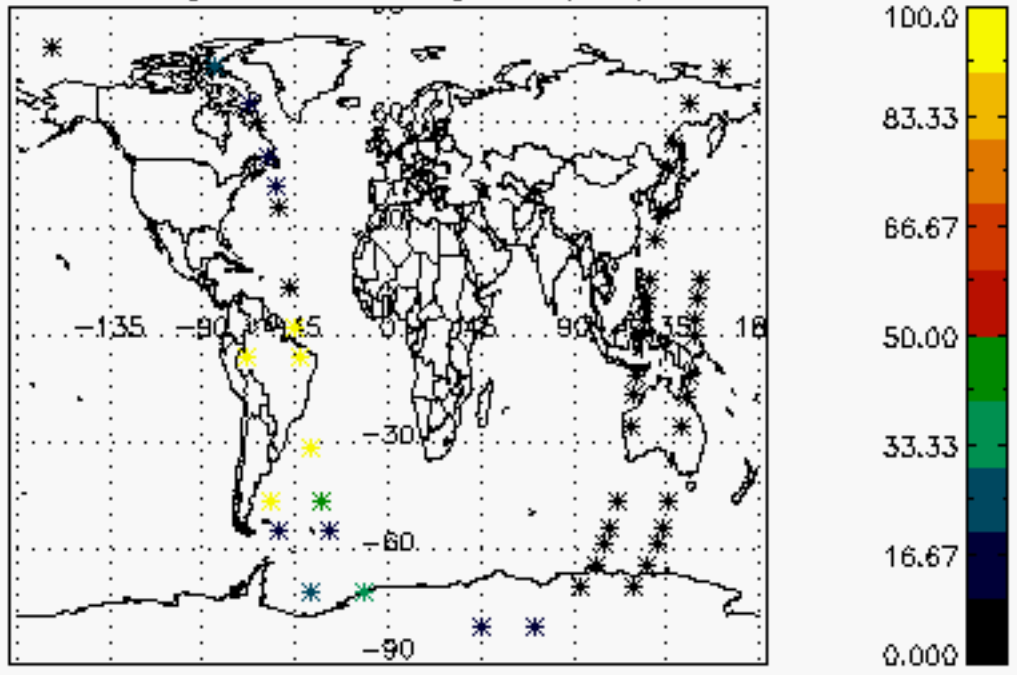
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.1	1447.4	1460.9	1447.0
St. deviation:	4.6661	5.5209	6.9138	7.5550
Maximum:	1537.0	1498.0	1509.0	1496.0
Minimum:	1447.0	1427.0	1446.0	1441.0
Number of data:	14600.	14600.	37150.	37150.



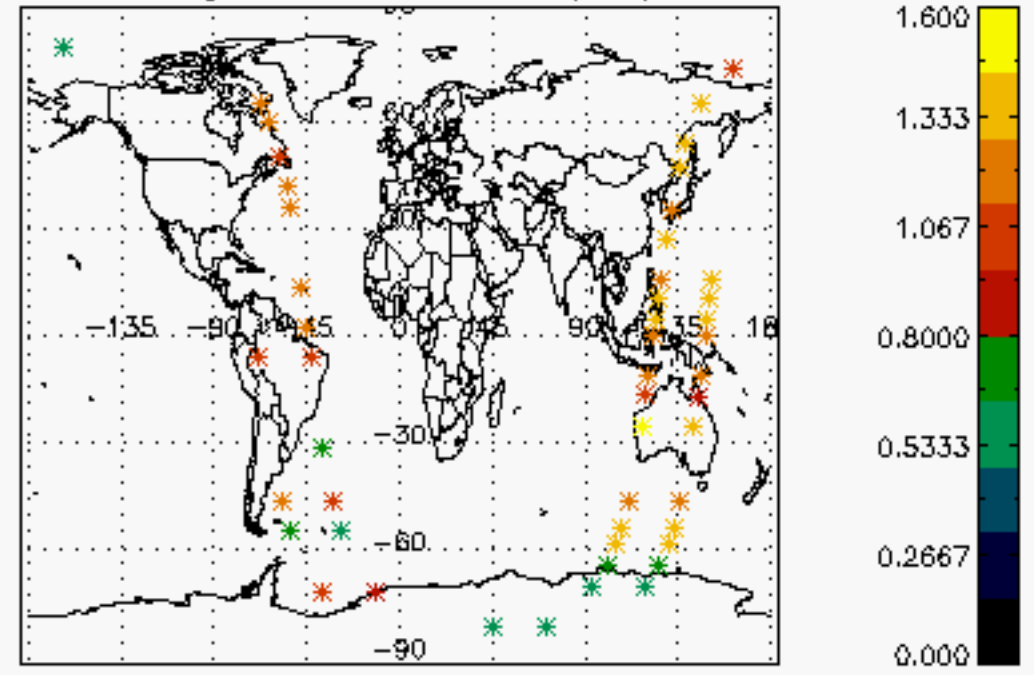




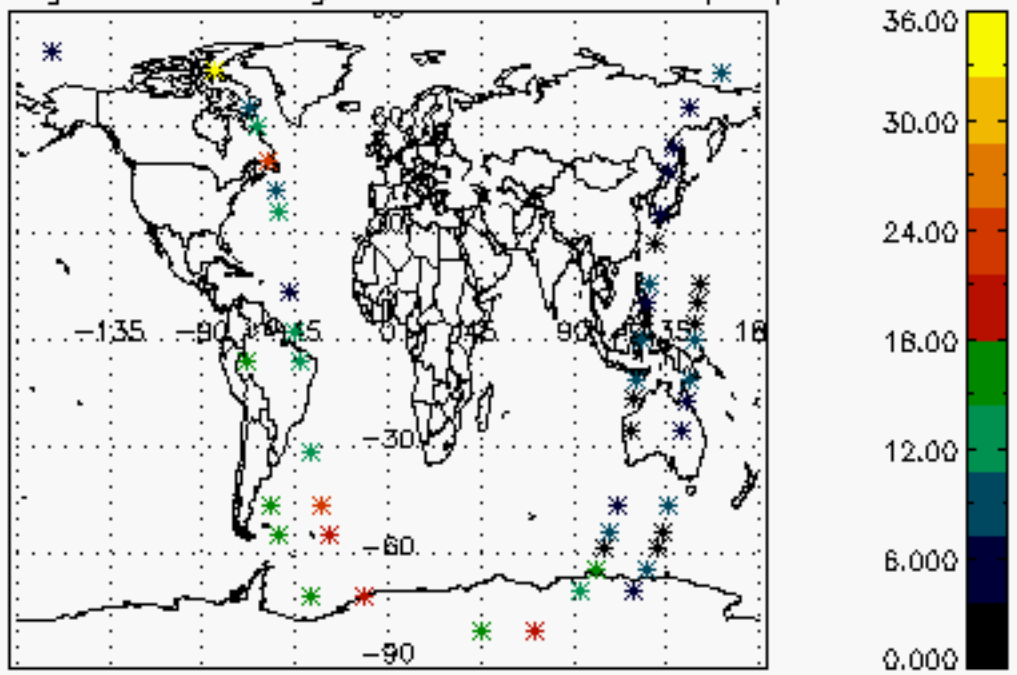
Percentage of cosmic ray hits per profile



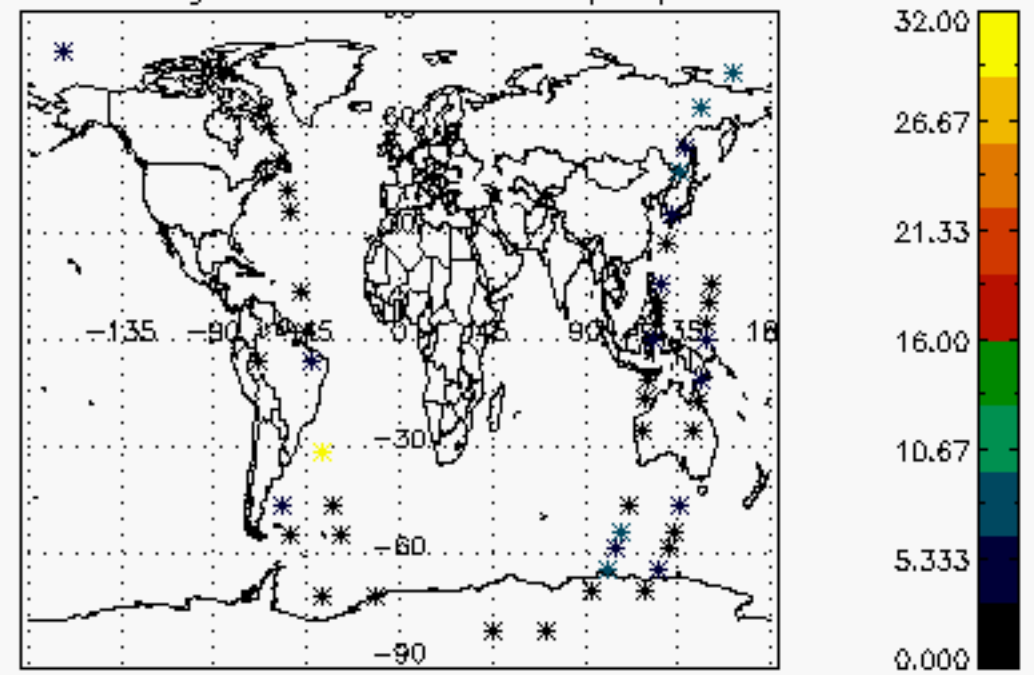
Percentage of datation errors per profile



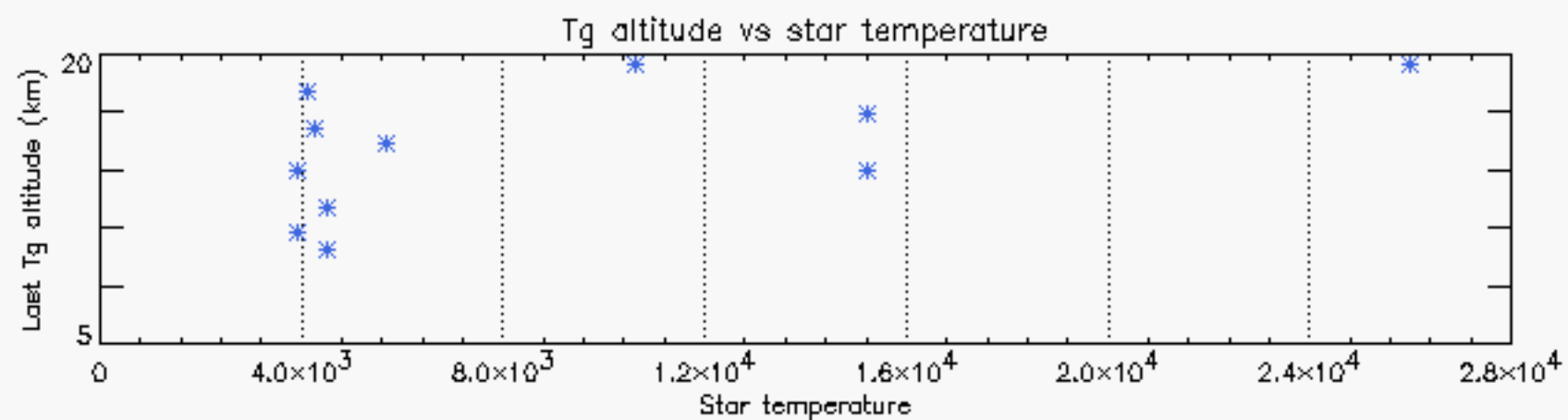
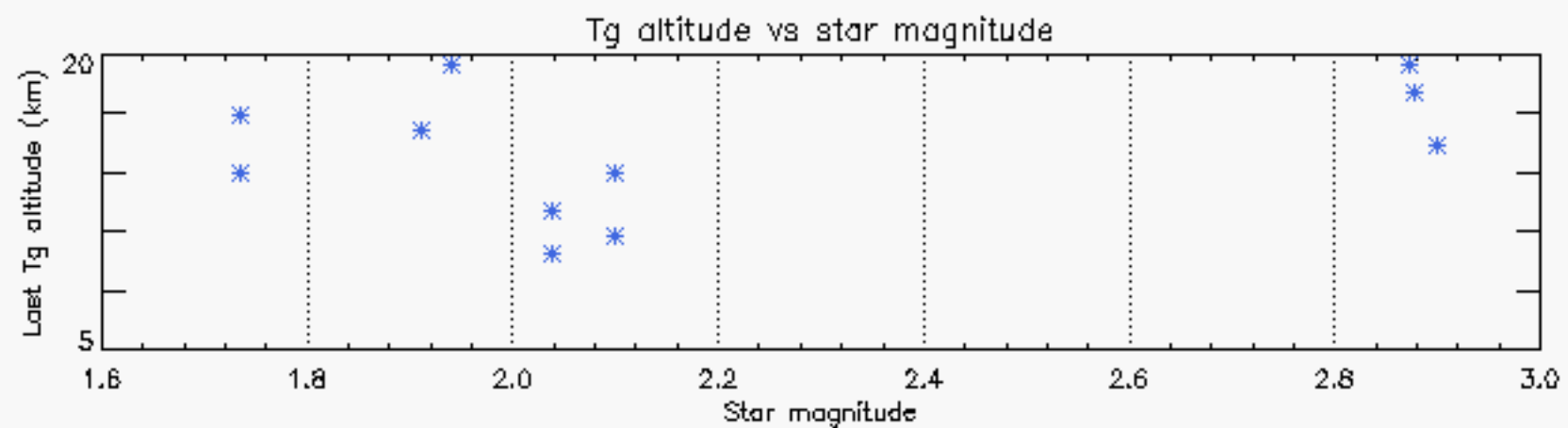
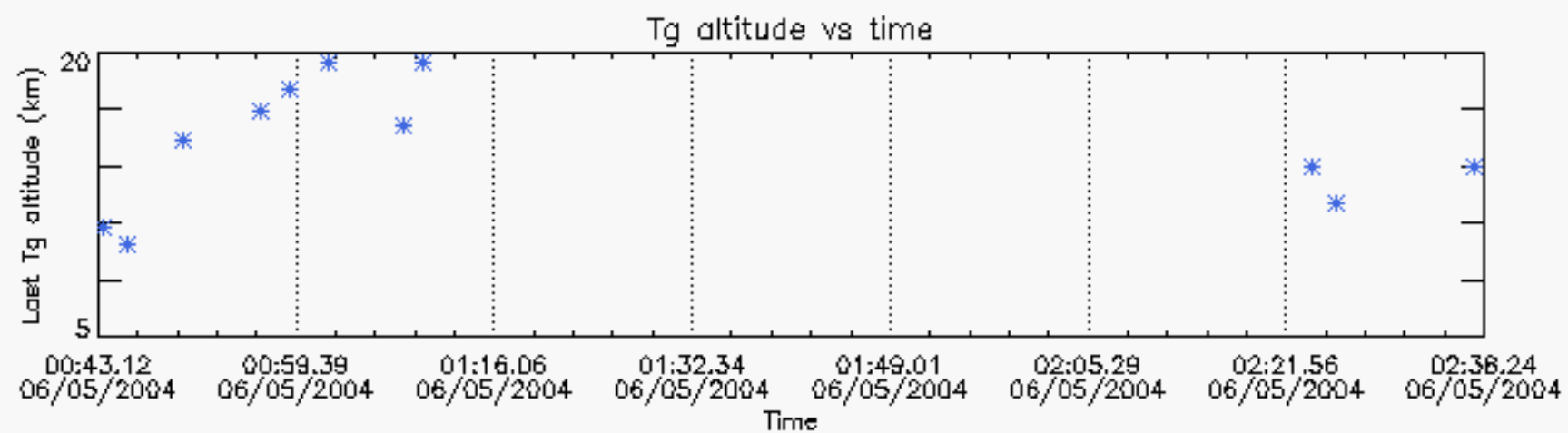
Percentage of star falling outside central band per profile



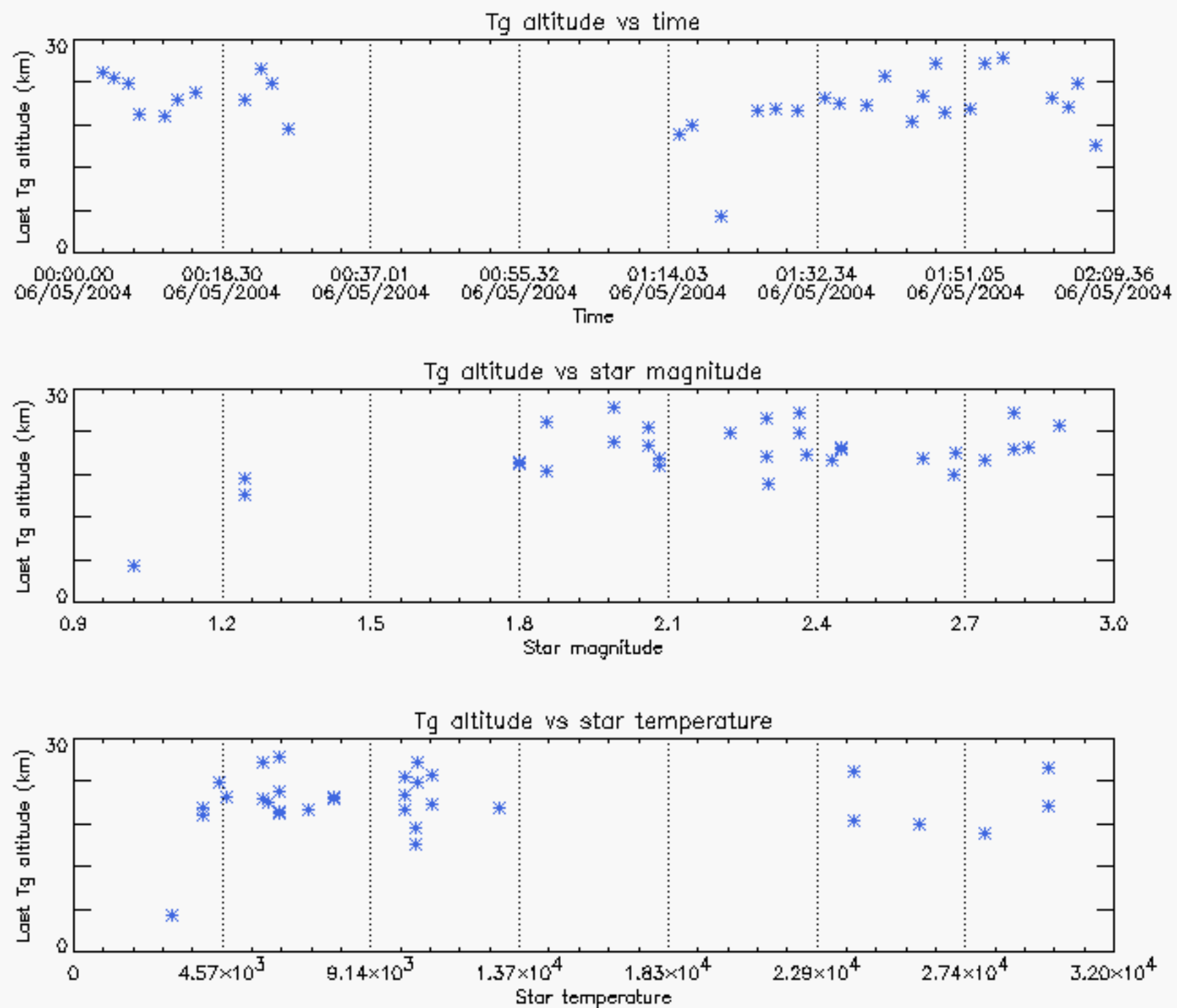
Percentage of saturation errors per profile



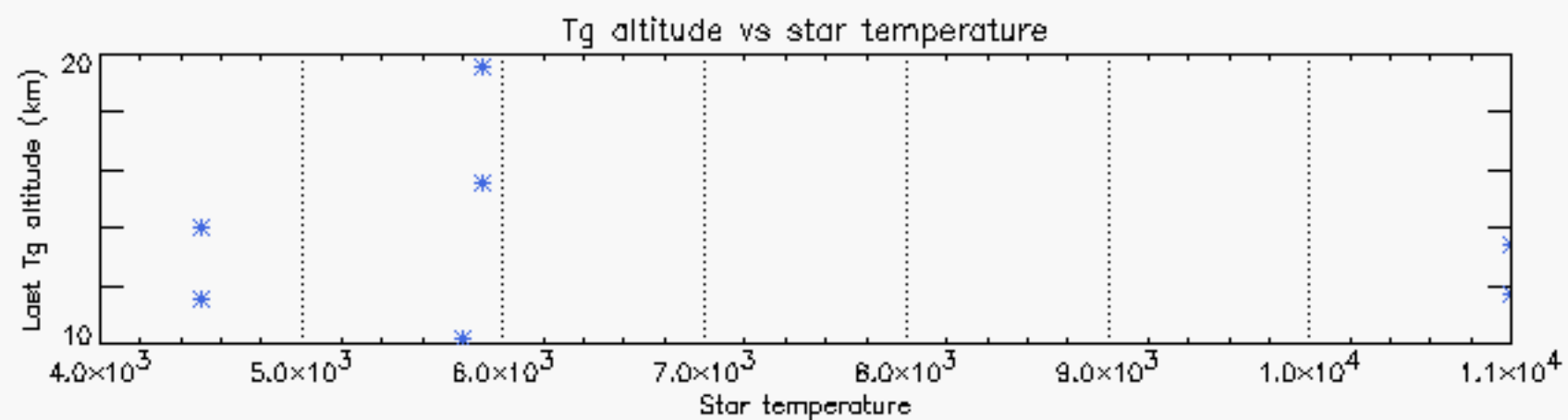
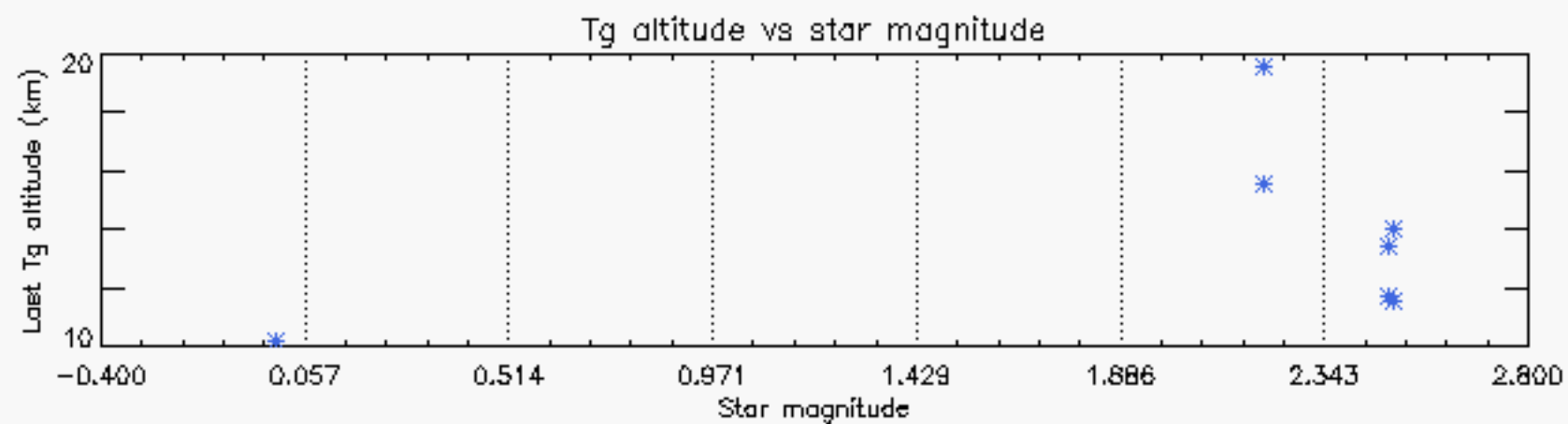
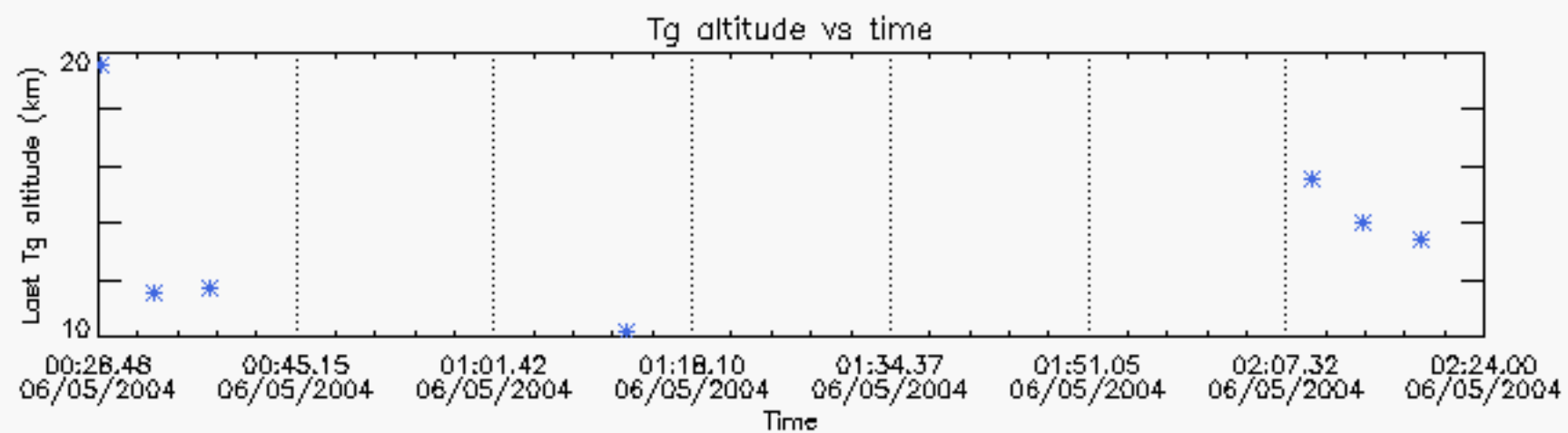
Tangent altitude at which the star is lost



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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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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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
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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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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
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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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