

GOMOS Daily Report 21-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	23MAY2004 04:01:09
Data source version	GOMOS/4.02
Start time of products	21-MAY-2004 (21MAY2004 00:00:00)
Stop time of products	22-MAY-2004 (22MAY2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	2

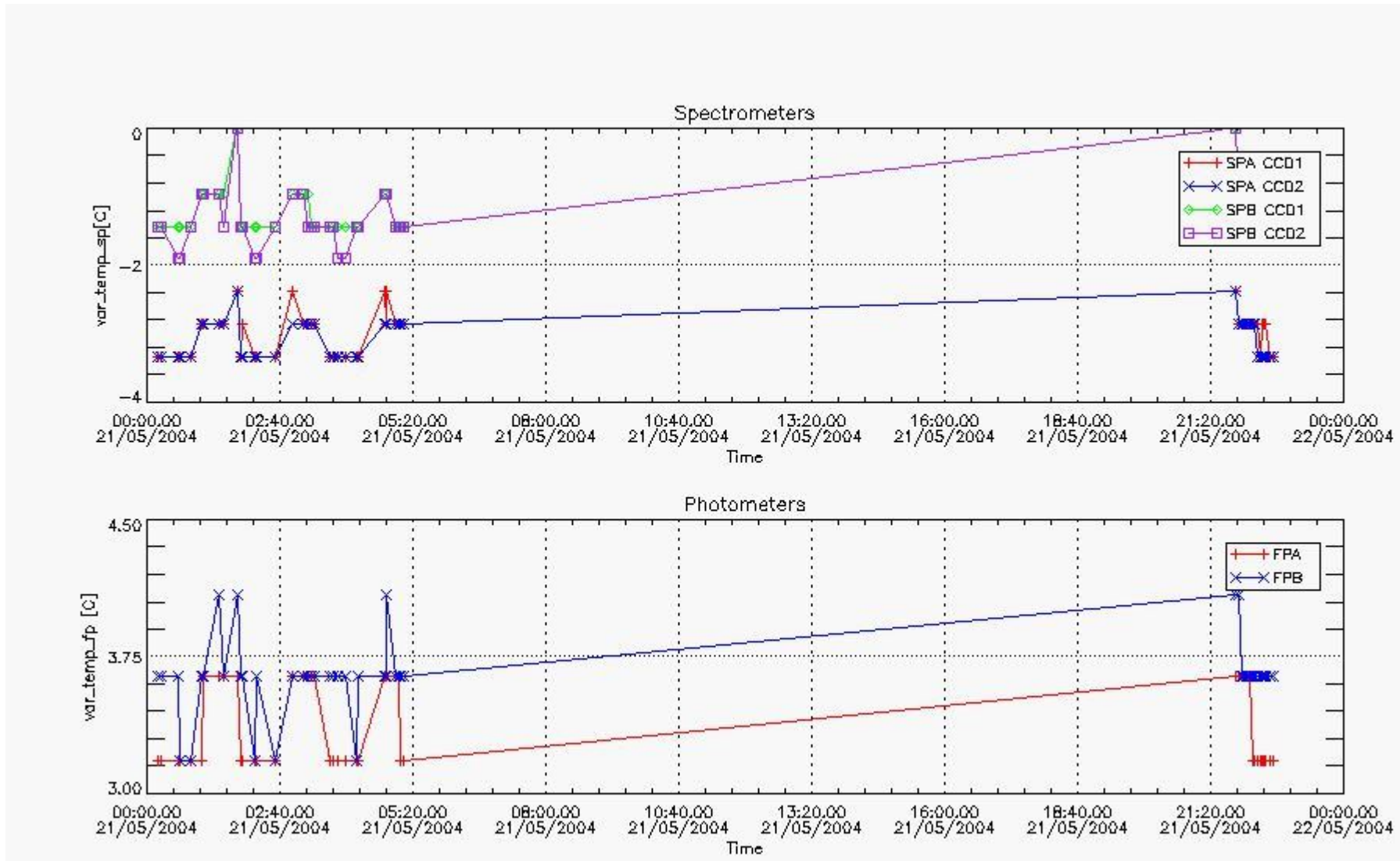
2. Summary of products arrived in PCF

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_1PNPDE20040521_001217_000000552027_00045_11622_0002.N1	21-MAY-2004 00:12:17	Bright	55.000	86	35Eta Oph	2.4300	10200.	110	11622	No
GOM_TRA_1PNPDE20040521_001644_000000472027_00045_11622_0004.N1	21-MAY-2004 00:16:44	Bright	46.500	120	1Del Oph	2.7340	3200.0	93	11622	No
GOM_TRA_1PNPDE20040521_003658_000000422027_00045_11622_0011.N1	21-MAY-2004 00:36:58	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	11622	No
GOM_TRA_1PNPDE20040521_003854_000000402027_00045_11622_0012.N1	21-MAY-2004 00:38:54	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	11622	No
GOM_TRA_1PNPDE20040521_005330_000001092027_00045_11622_0016.N1	21-MAY-2004 00:53:30	Bright	109.00	66	37Gam Cyg	2.2080	5900.0	218	11622	No
GOM_TRA_1PNPDE20040521_010546_000000502027_00045_11622_0018.N1	21-MAY-2004 01:05:46	Twilight	49.500	140	88Gam Peg	2.8340	26000.	99	11622	No
GOM_TRA_1PNPDE20040521_010748_000000632027_00045_11622_0019.N1	21-MAY-2004 01:07:48	Dark	63.000	90	54Alp Peg	2.4870	11000.	126	11622	No
GOM_TRA_1PNPDE20040521_012552_000000522027_00045_11622_0023.N1	21-MAY-2004 01:25:52	Dark	51.500	63	Bet Gru	2.1500	2800.0	103	11622	No
GOM_TRA_1PNPDE20040521_013256_000000442027_00046_11623_0026.N1	21-MAY-2004 01:32:56	Dark	44.000	45	Alp Pav	1.9400	26000.	88	11623	No
GOM_TRA_1PNPDE20040521_014928_000000592027_00046_11623_0000.N1	21-MAY-2004 01:49:28	Bright	58.500	16	21Alp Sco	1.0200	3000.0	117	11623	Yes
GOM_TRA_1PNPDE20040521_015253_000000572027_00046_11623_0002.N1	21-MAY-2004 01:52:53	Bright	57.000	86	35Eta Oph	2.4300	10200.	114	11623	No
GOM_TRA_1PNPDE20040521_015527_000000412027_00046_11623_0003.N1	21-MAY-2004 01:55:27	Bright	41.000	104	27Bet Lib	2.6140	13100.	82	11623	No
GOM_TRA_1PNPDE20040521_020917_000000382027_00046_11623_0008.N1	21-MAY-2004 02:09:17	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	11623	No
GOM_TRA_1PNPDE20040521_021223_000000392027_00046_11623_0009.N1	21-MAY-2004 02:12:23	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	11623	No
GOM_TRA_1PNPDE20040521_023405_000001022027_00046_11623_0016.N1	21-MAY-2004 02:34:05	Bright	102.00	66	37Gam Cyg	2.2080	5900.0	204	11623	No
GOM_TRA_1PNPDE20040521_025509_000000472027_00046_11623_0020.N1	21-MAY-2004 02:55:09	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	11623	No
GOM_TRA_1PNPDE20040521_030804_000000542027_00047_11624_0024.N1	21-MAY-2004 03:08:04	Dark	53.500	31	Alp Gru	1.7340	15200.	107	11624	No
GOM_TRA_1PNPDE20040521_031334_000000452027_00047_11624_0026.N1	21-MAY-2004 03:13:34	Dark	45.000	45	Alp Pav	1.9400	26000.	90	11624	No
GOM_TRA_1PNPDE20040521_031822_000000432027_00047_11624_0027.N1	21-MAY-2004 03:18:22	Twilight	42.500	43	Alp TrA	1.9100	4250.0	85	11624	No
GOM_TRA_1PNPDE20040521_032030_000000412027_00047_11624_0028.N1	21-MAY-2004 03:20:30	Twilight	40.500	134	Bet TrA	2.8100	6600.0	81	11624	No
GOM_TRA_1PNPDE20040521_034101_000000422027_00047_11624_0003.N1	21-MAY-2004 03:41:01	Bright	42.000	102	24Alp Ser	2.6000	4250.0	84	11624	No
GOM_TRA_1PNPDE20040521_034428_000000372027_00047_11624_0004.N1	21-MAY-2004 03:44:28	Bright	36.500	3	16Alp Boo	-0.050000	4250.0	73	11624	No
GOM_TRA_1PNPDE20040521_034954_000000382027_00047_11624_0006.N1	21-MAY-2004 03:49:54	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	11624	No
GOM_TRA_1PNPDE20040521_035809_000000422027_00047_11624_0009.N1	21-MAY-2004 03:58:09	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	11624	No
GOM_TRA_1PNPDE20040521_041249_000000392027_00047_11624_0013.N1	21-MAY-2004 04:12:49	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	11624	No
GOM_TRA_1PNPDE20040521_041439_000001112027_00047_11624_0014.N1	21-MAY-2004 04:14:39	Bright	111.00	66	37Gam Cyg	2.2080	5900.0	222	11624	No
GOM_TRA_1PNPDE20040521_044536_000000432027_00047_11624_0020.N1	21-MAY-2004 04:45:36	Dark	43.000	9	Alp Eri	0.45300	24000.	86	11624	No
GOM_TRA_1PNPDE20040521_044707_000000492027_00047_11624_0021.N1	21-MAY-2004 04:47:07	Dark	48.500	63	Bet Gru	2.1500	2800.0	97	11624	No
GOM_TRA_1PNPDE20040521_044844_000000492027_00048_11625_0022.N1	21-MAY-2004 04:48:44	Dark	49.000	31	Alp Gru	1.7340	15200.	98	11625	No
GOM_TRA_1PNPDE20040521_045858_000000442027_00048_11625_0025.N1	21-MAY-2004 04:58:58	Twilight	43.500	43	Alp TrA	1.9100	4250.0	87	11625	No
GOM_TRA_1PNPDE20040521_050240_000000452027_00048_11625_0027.N1	21-MAY-2004 05:02:40	Bright	45.000	4	Alp1Cen	-0.010000	5800.0	90	11625	No
GOM_TRA_1PNPDE20040521_050539_000000512027_00048_11625_0029.N1	21-MAY-2004 05:05:39	Bright	51.000	25	35Lam Sco	1.6200	28000.	102	11625	No
GOM_TRA_1PNPDE20040521_050748_000000402027_00048_11625_0030.N1	21-MAY-2004 05:07:48	Bright	40.000	81	Eta Cen	2.3560	28000.	80	11625	No
GOM_TRA_1PNPDE20040521_215038_000000642027_00058_11635_0000.N1	21-MAY-2004 21:50:38	Bright	63.500	38	20Eps Sgr	1.8360	11000.	127	11635	Yes
GOM_TRA_1PNPDE20040521_215349_000000532027_00058_11635_0001.N1	21-MAY-2004 21:53:49	Bright	53.000	75	26Eps Sco	2.2910	4250.0	106	11635	No
GOM_TRA_1PNPDE20040521_215643_000000612027_00058_11635_0002.N1	21-MAY-2004 21:56:43	Bright	61.000	16	21Alp Sco	1.0200	3000.0	122	11635	No
GOM_TRA_1PNPDE20040521_215819_000000472027_00058_11635_0003.N1	21-MAY-2004 21:58:19	Bright	46.500	80	7Del Sco	2.3160	30000.	93	11635	No
GOM_TRA_1PNPDE20040521_220005_000000572027_00058_11635_0004.N1	21-MAY-2004 22:00:05	Bright	56.500	86	35Eta Oph	2.4300	10200.	113	11635	No
GOM_TRA_1PNPDE20040521_220240_000000402027_00058_11635_0005.N1	21-MAY-2004 22:02:40	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	11635	No
GOM_TRA_1PNPDE20040521_220429_000000472027_00058_11635_0006.N1	21-MAY-2004 22:04:29	Bright	46.500	120	1Del Oph	2.7340	3200.0	93	11635	No
GOM_TRA_1PNPDE20040521_220734_000000422027_00058_11635_0007.N1	21-MAY-2004 22:07:34	Bright	42.000	102	24Alp Ser	2.6000	4250.0	84	11635	No
GOM_TRA_1PNPDE20040521_221104_000000382027_00058_11635_0008.N1	21-MAY-2004 22:11:04	Bright	38.000	3	16Alp Boo	-0.050000	4250.0	76	11635	No
GOM_TRA_1PNPDE20040521_221319_000000382027_00058_11635_0009.N1	21-MAY-2004 22:13:19	Bright	37.500	83		2.3780	11000.	75	11635	No
GOM_TRA_1PNPDE20040521_221628_000000372027_00058_11635_0010.N1	21-MAY-2004 22:16:28	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	11635	No
GOM_TRA_1PNPDE20040521_221935_000000372027_00058_11635_0011.N1	21-MAY-2004 22:19:35	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	11635	No
GOM_TRA_1PNPDE20040521_222116_000000372027_00058_11635_0012.N1	21-MAY-2004 22:21:16	Bright	37.000	55	79Zet UMa	2.0600	10200.	74	11635	No
GOM_TRA_1PNPDE20040521_222441_000000422027_00058_11635_0013.N1	21-MAY-2004 22:24:41	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	11635	No
GOM_TRA_1PNPDE20040521_222641_000000402027_00058_11635_0014.N1	21-MAY-2004 22:26:41	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	11635	No
GOM_TRA_1PNPDE20040521_223114_000000342027_00058_11635_0015.N1	21-MAY-2004 22:31:14	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	11635	No

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



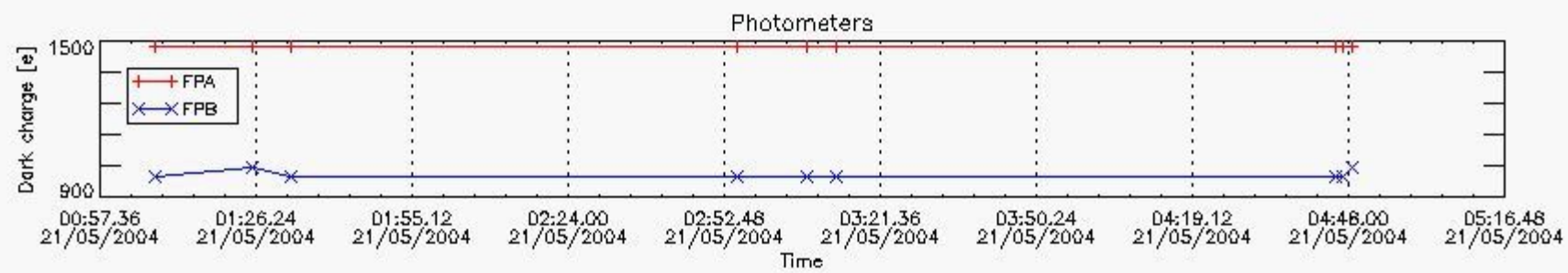
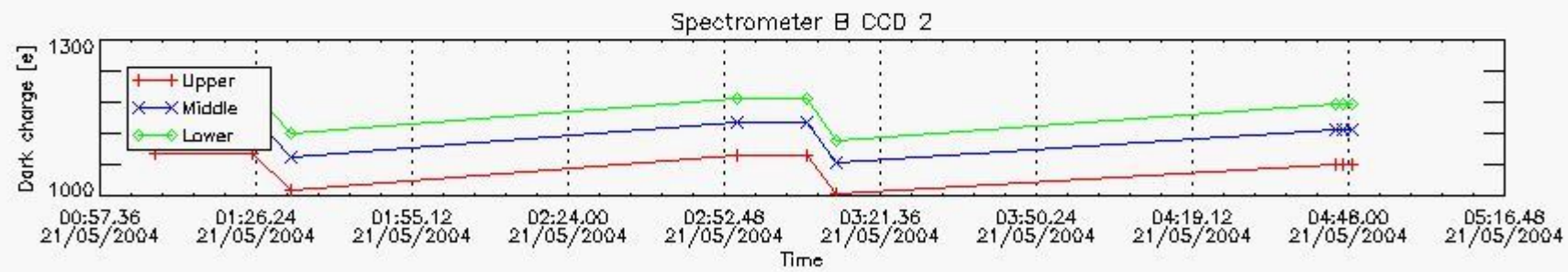
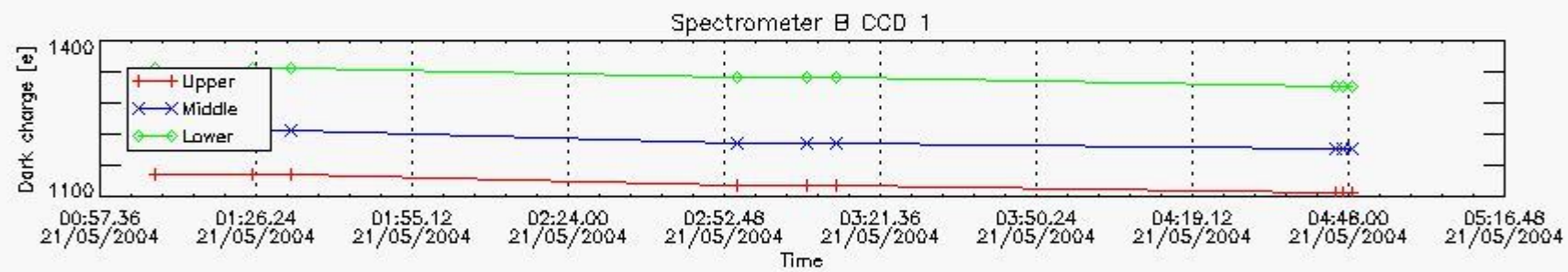
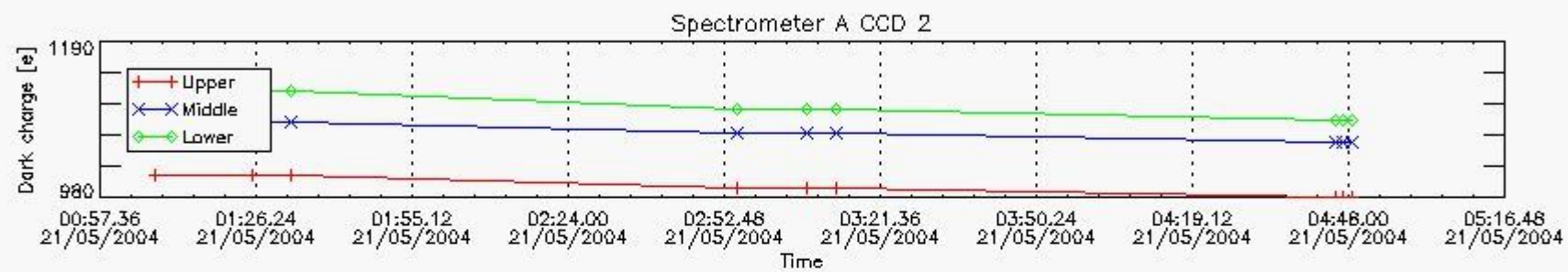
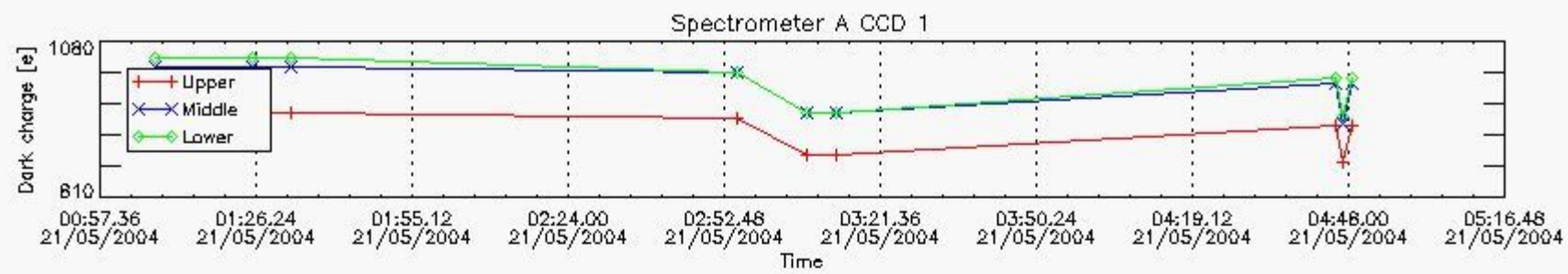
4. Overview of dark signal processing per product

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



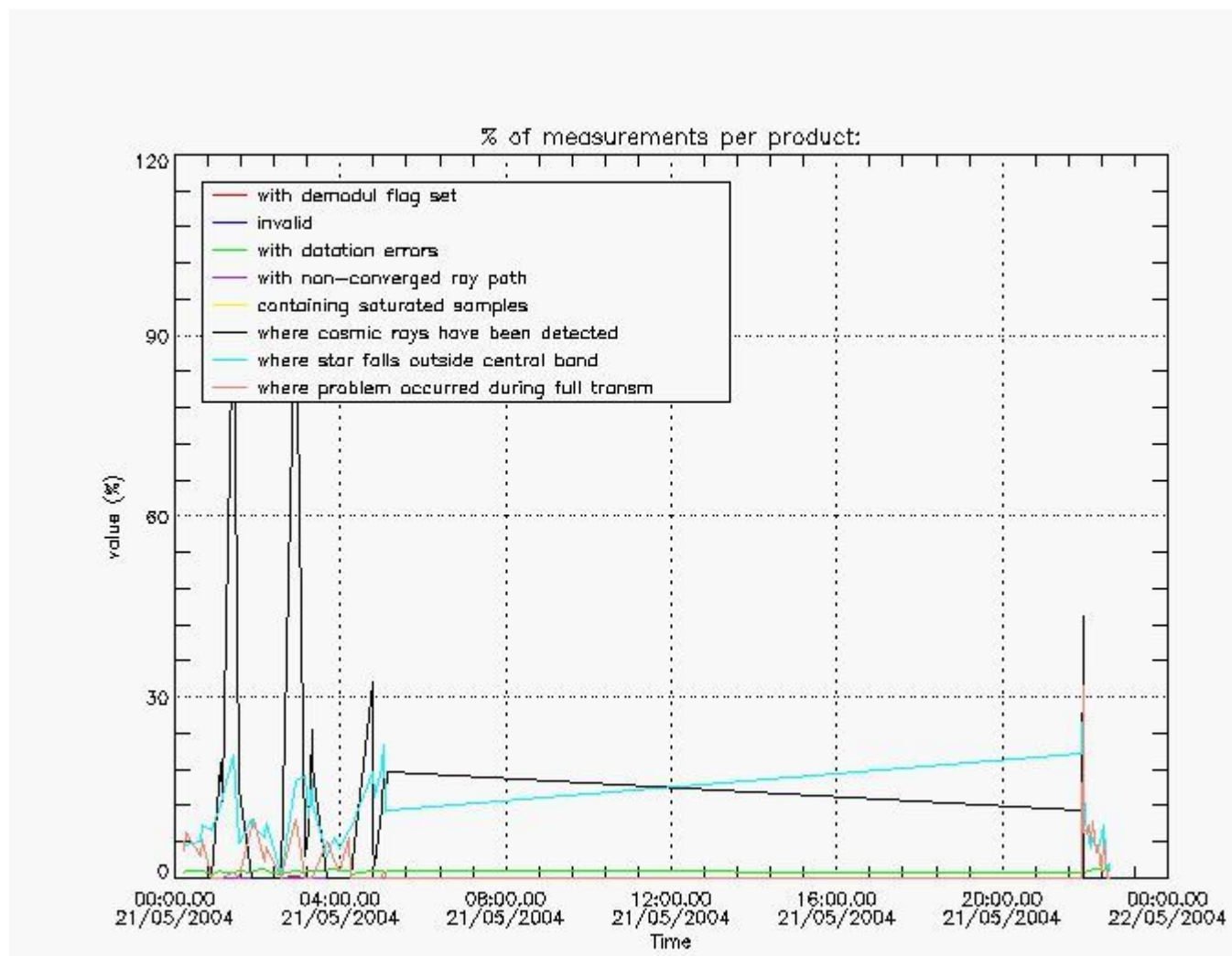
5. Demodulation flag and quality information monitoring

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:

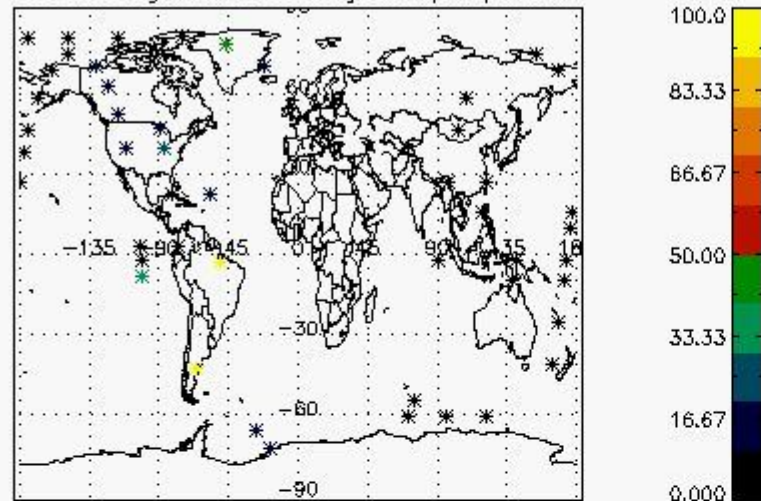
At least one measurement with demodulation flag set:	6.25000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

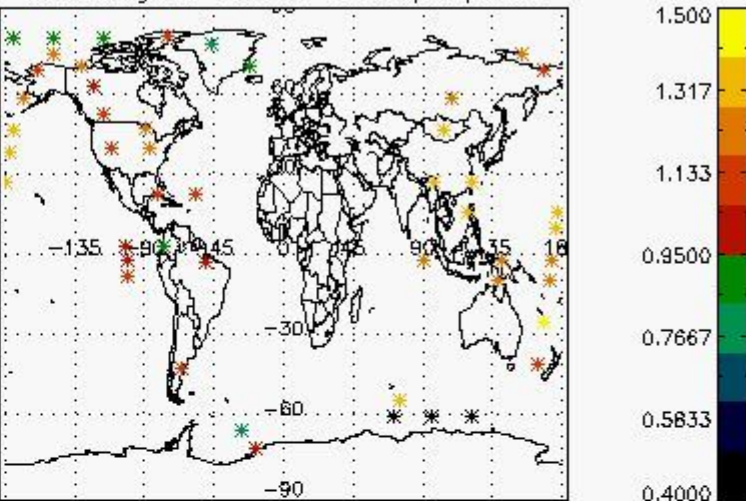


5.3 Plot quality information per product (world map)

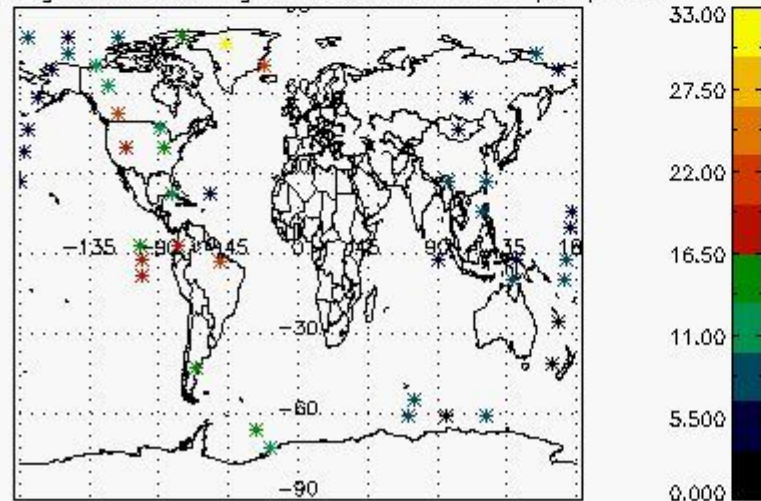
Percentage of cosmic ray hits per profile



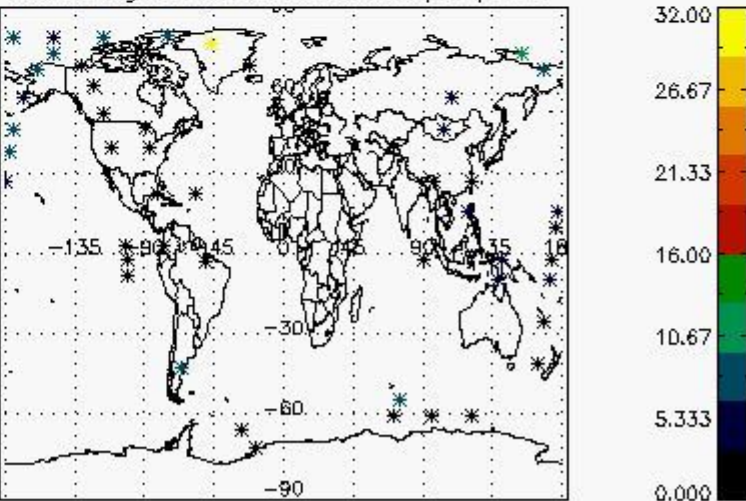
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



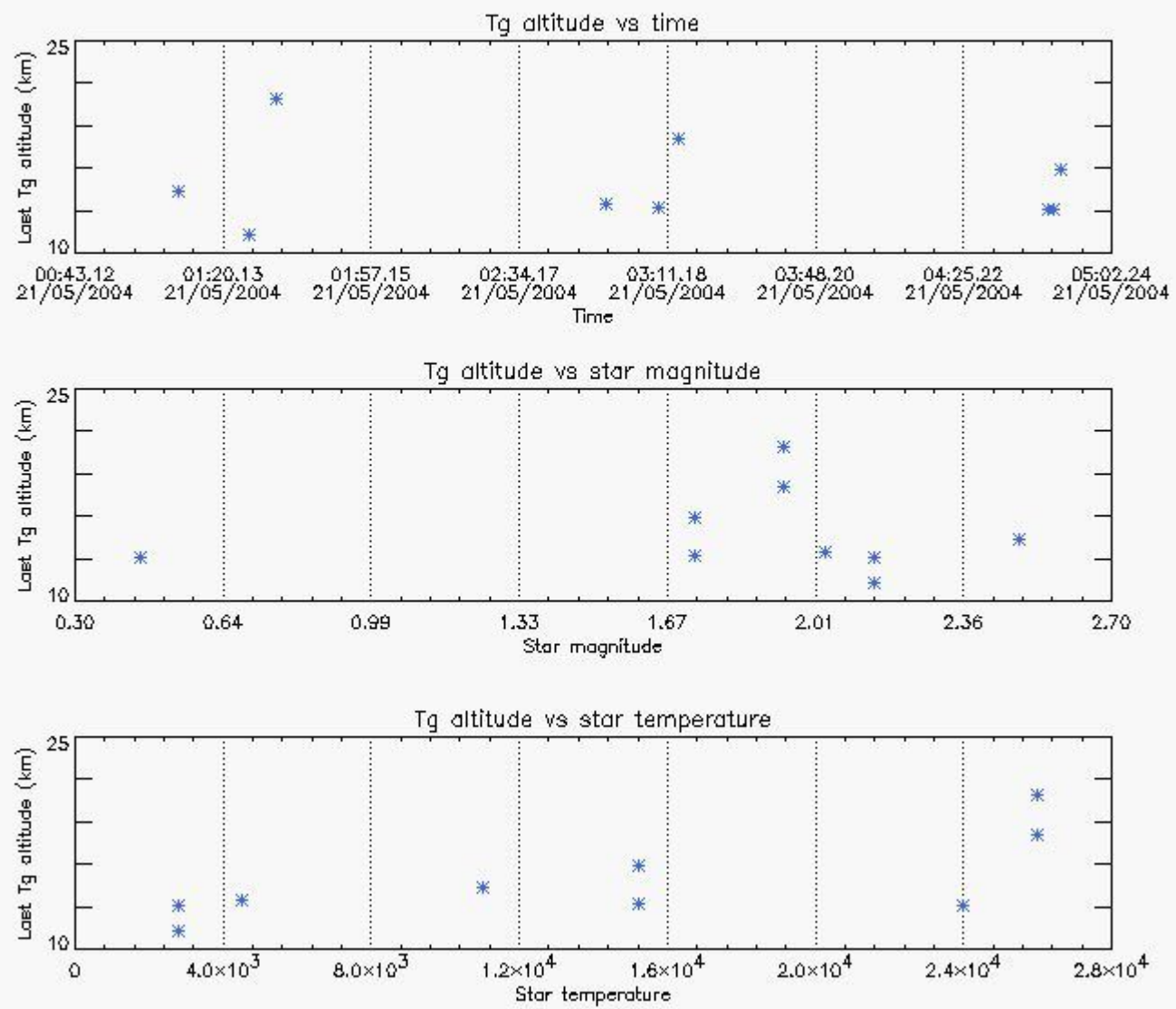
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.818	19.464	14.985
St. deviation:	3.0239	4.1325	1.5020
Maximum:	20.918	28.566	16.936
Minimum:	11.225	5.8338	13.275
Number of data:	9.0000	35.000	4.0000

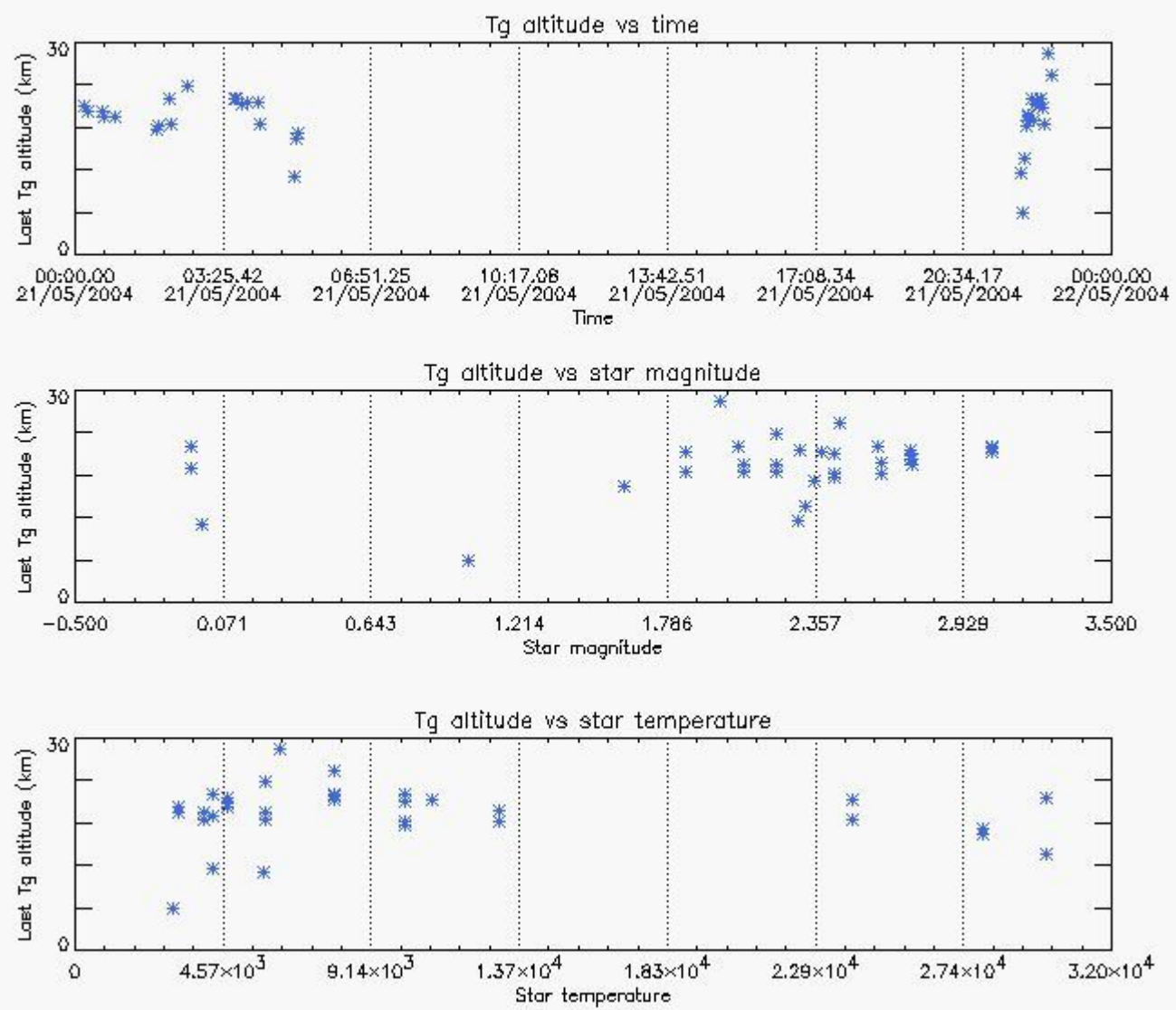
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



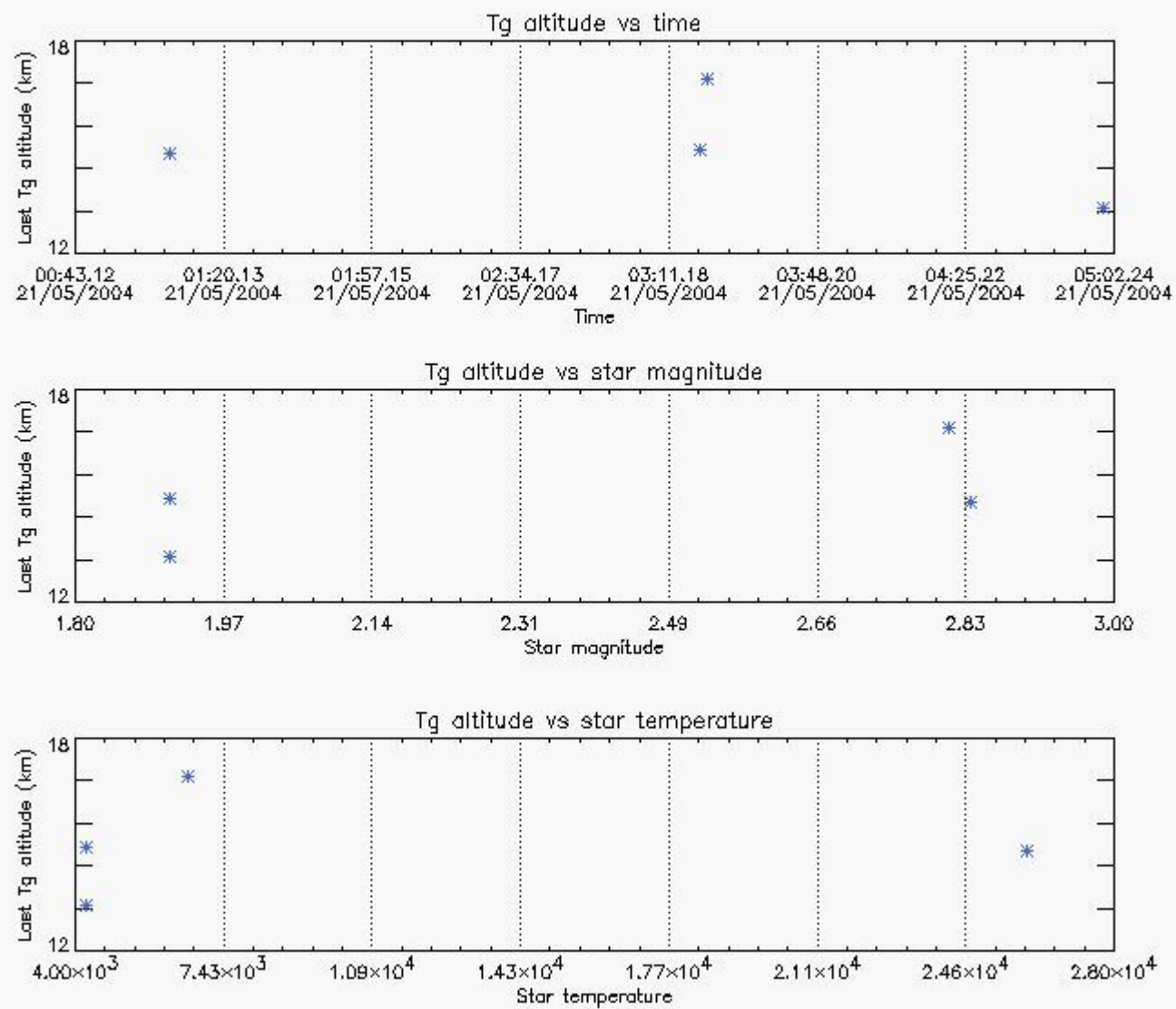
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

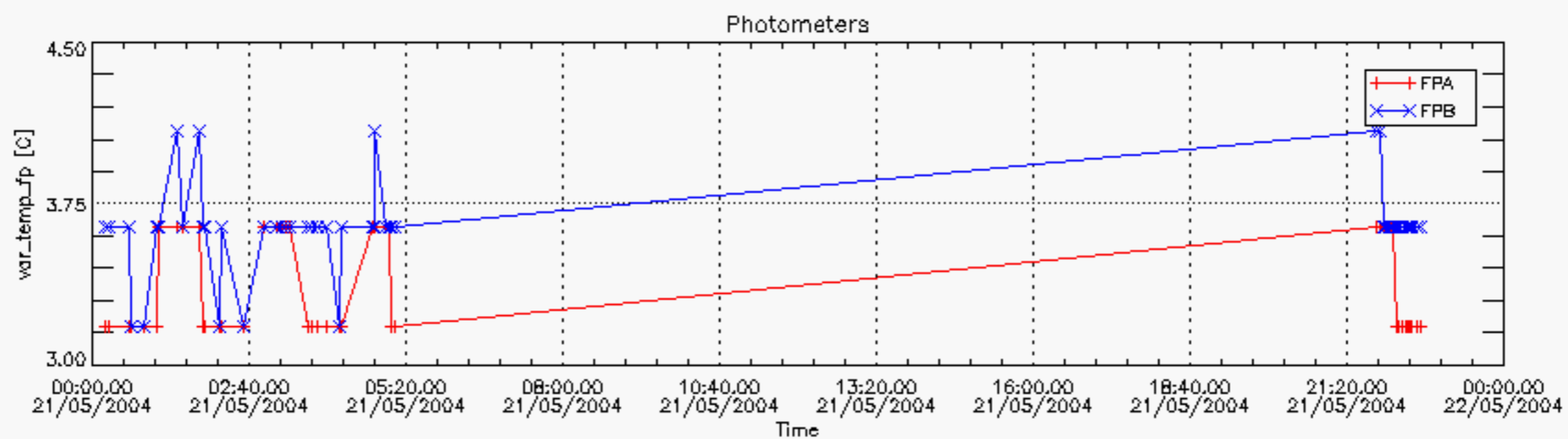
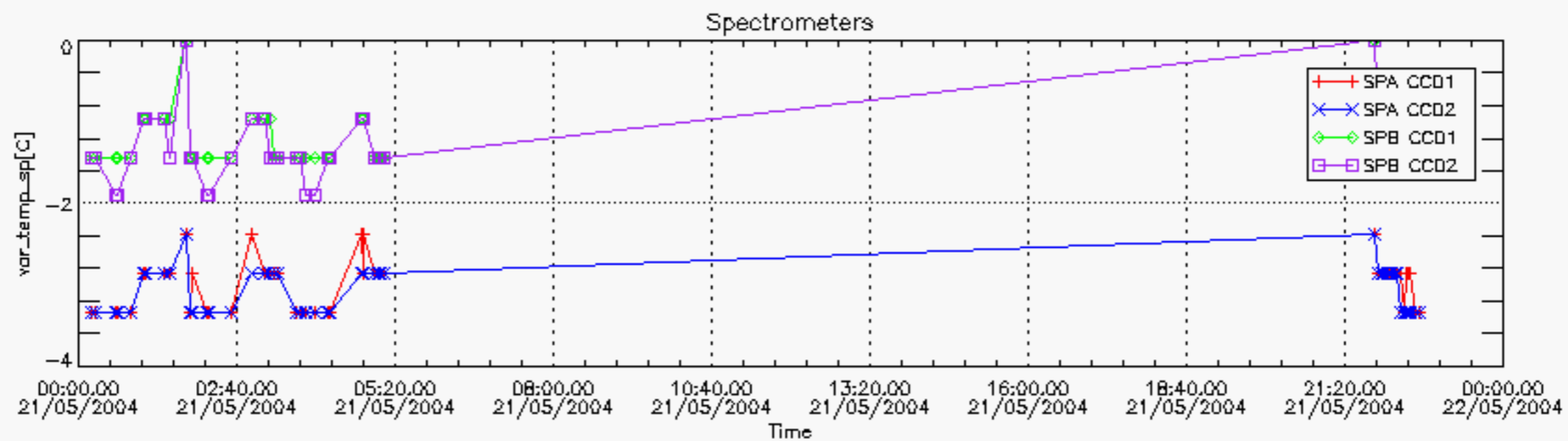
Tangent altitude at which the star is lost

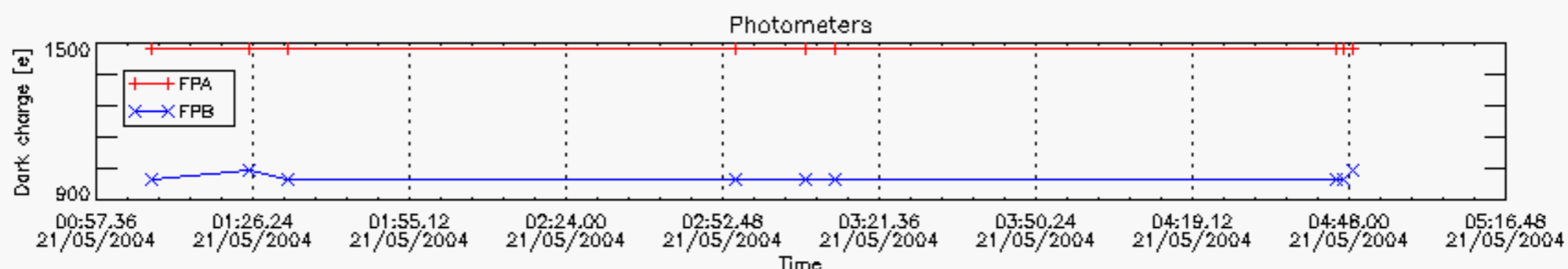
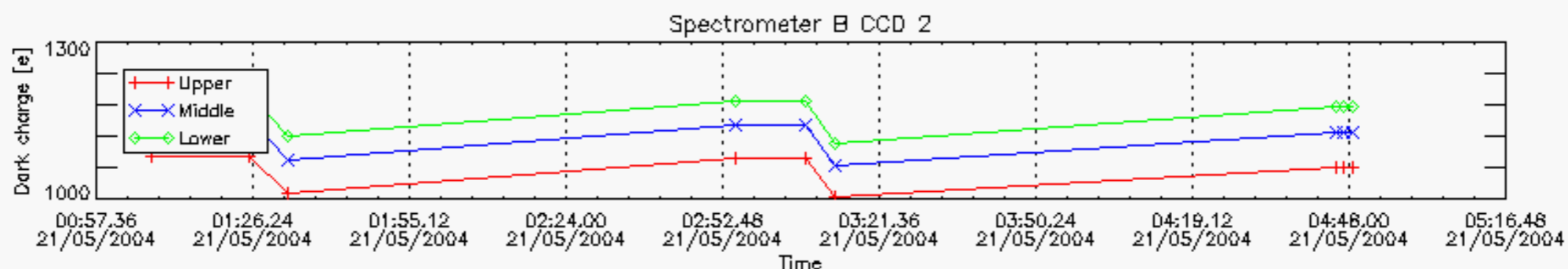
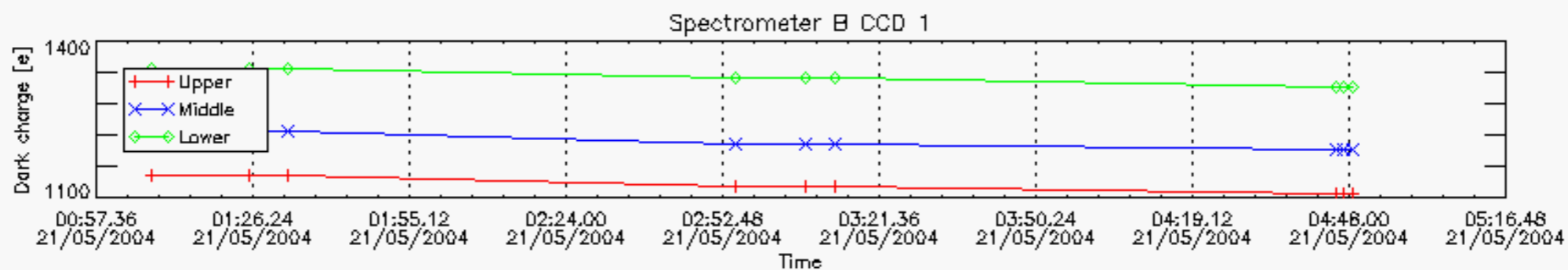
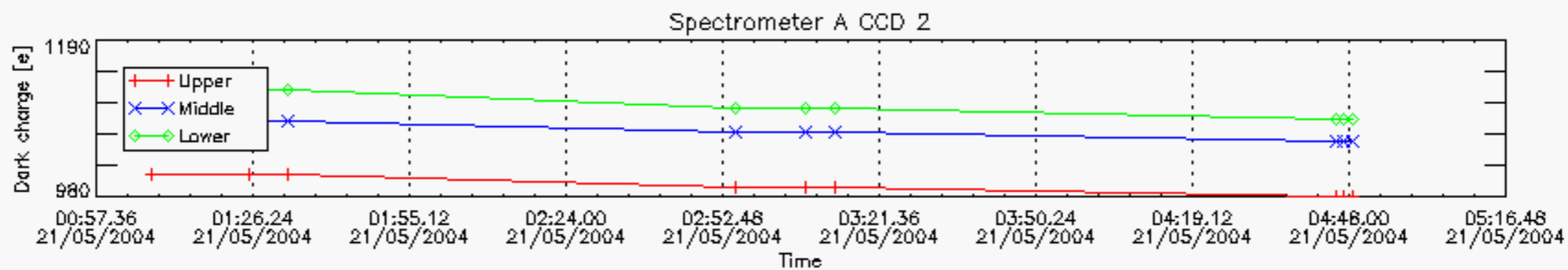
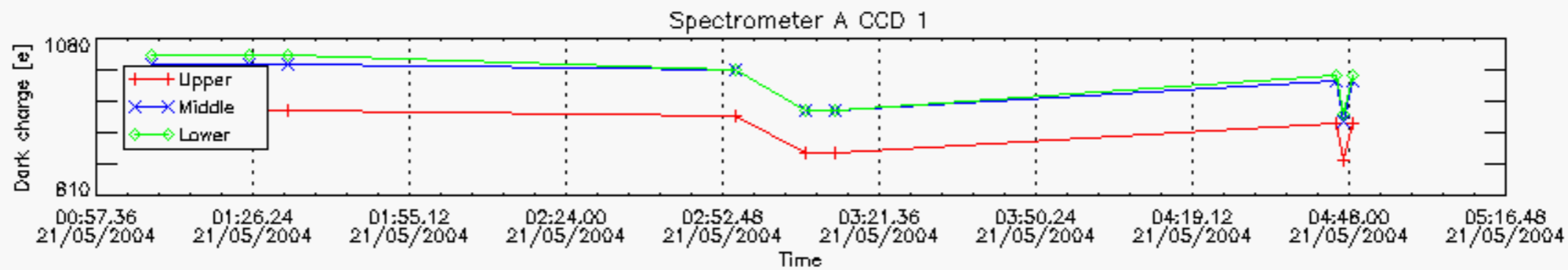


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

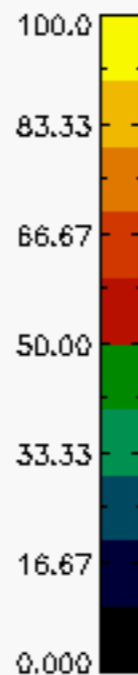
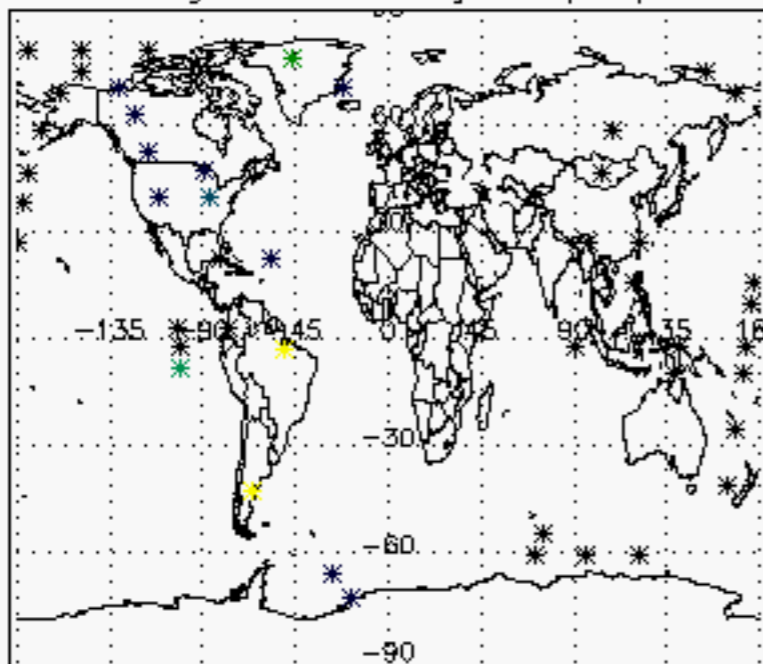
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1462.0	1447.4	1462.0	1448.1
St. deviation:	4.2025	5.5363	6.6246	7.7533
Maximum:	1494.0	1485.0	1516.0	1500.0
Minimum:	1448.0	1429.0	1434.0	1422.0
Number of data:	11750.	11750.	42200.	42200.

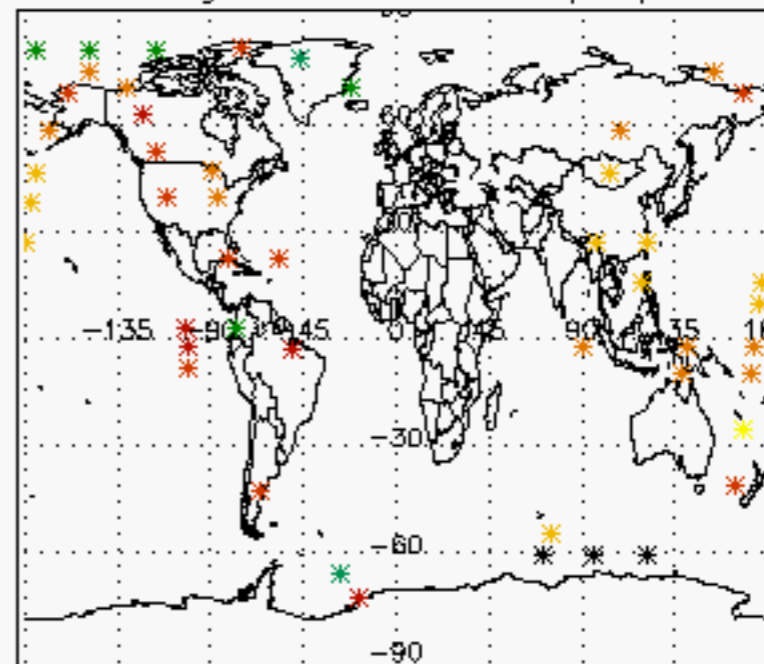




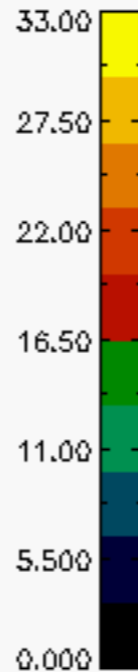
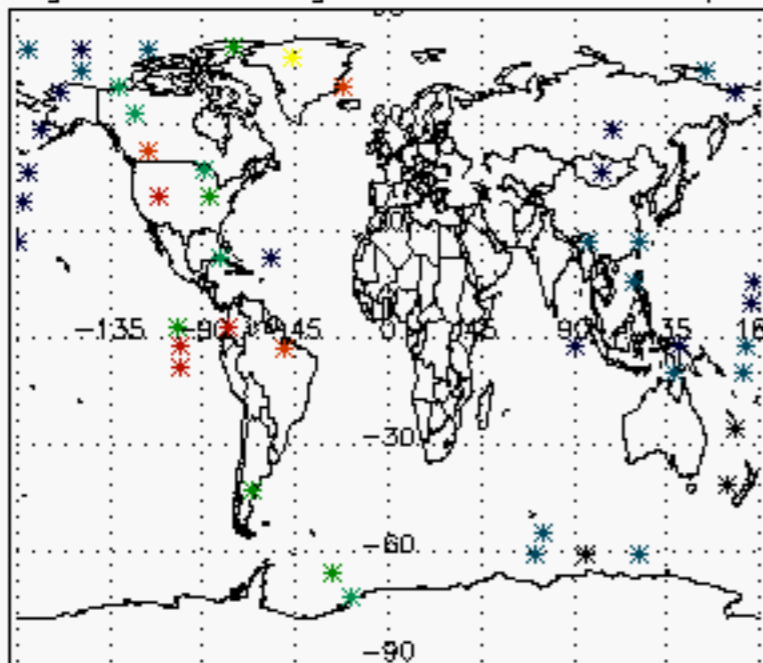
Percentage of cosmic ray hits per profile



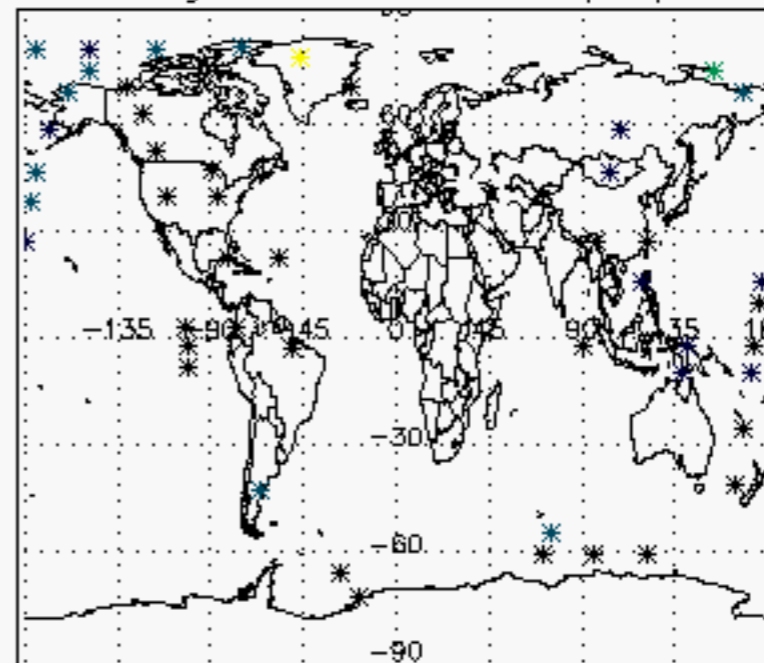
Percentage of datation errors per profile



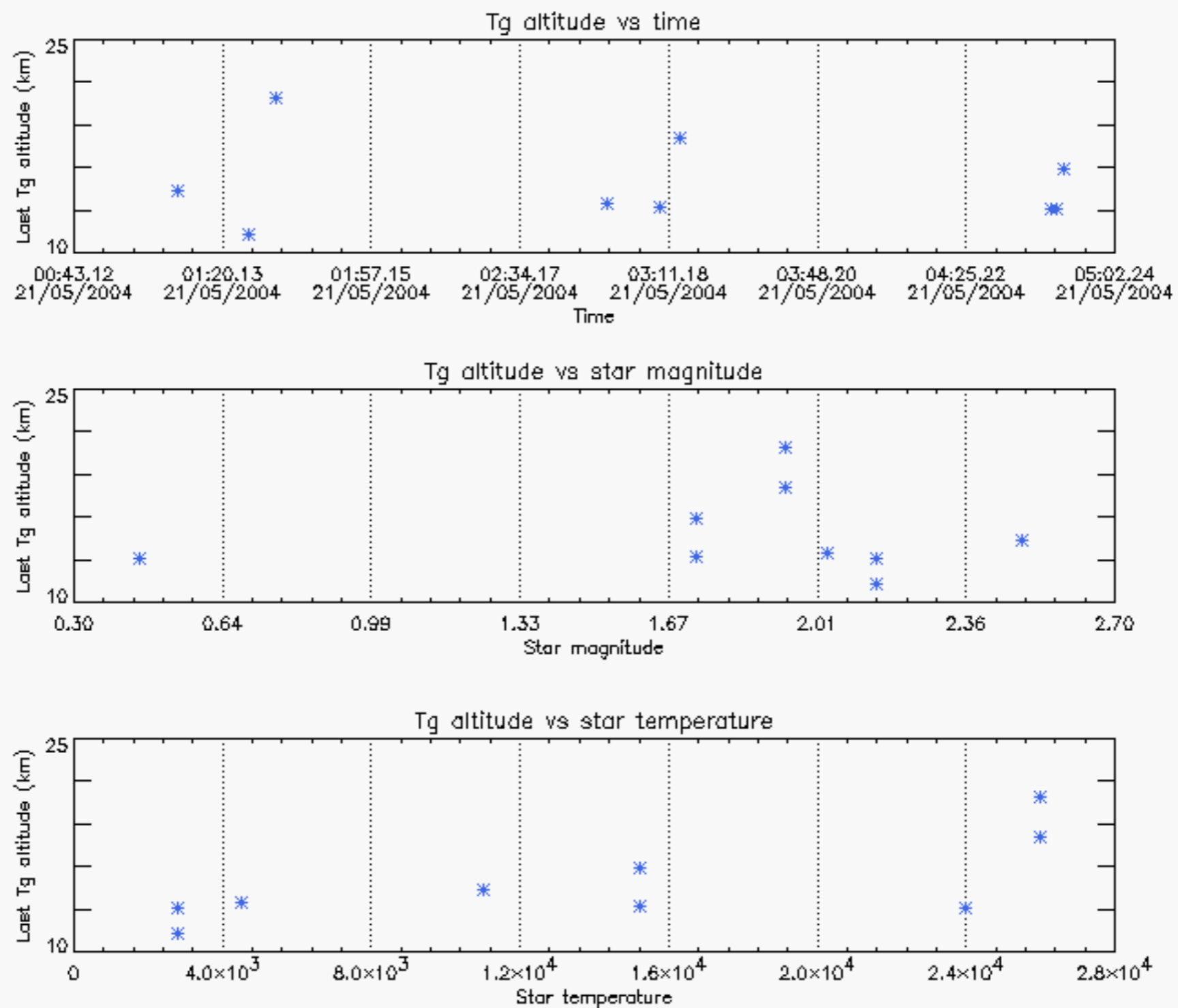
Percentage of star falling outside central band per profile



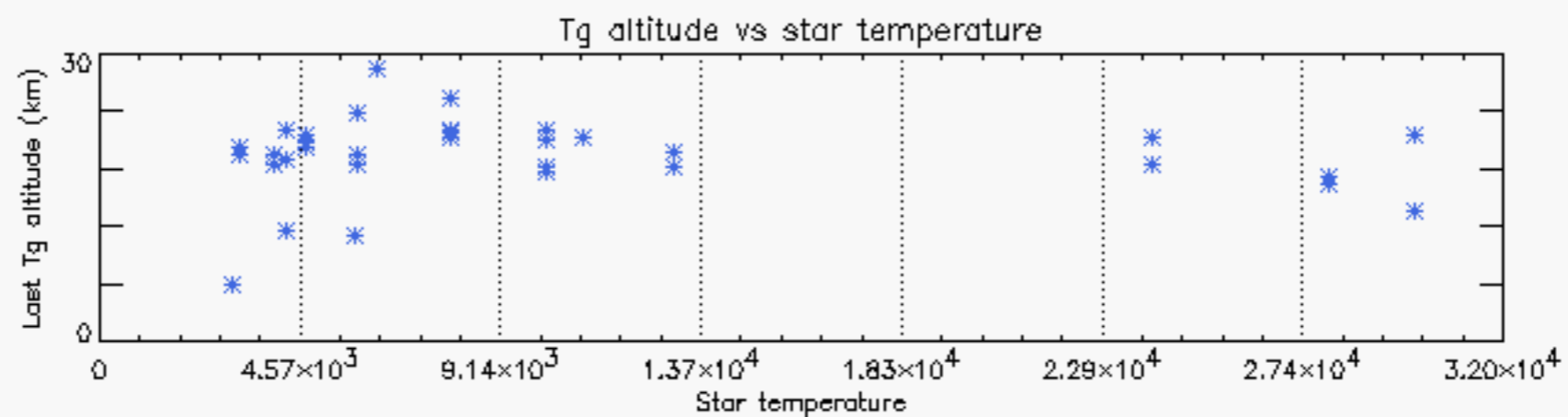
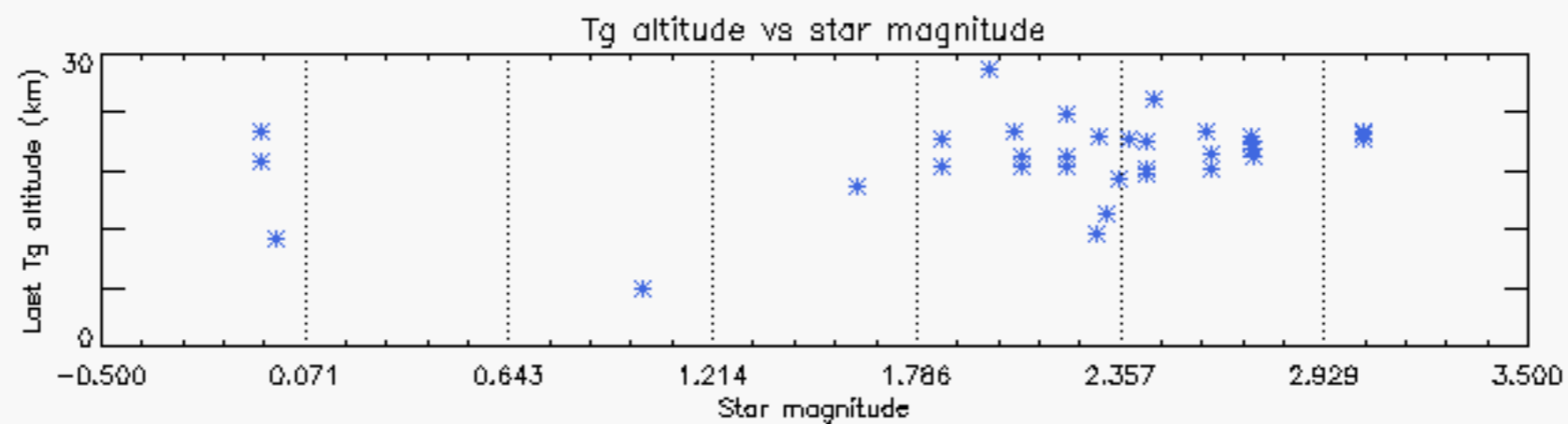
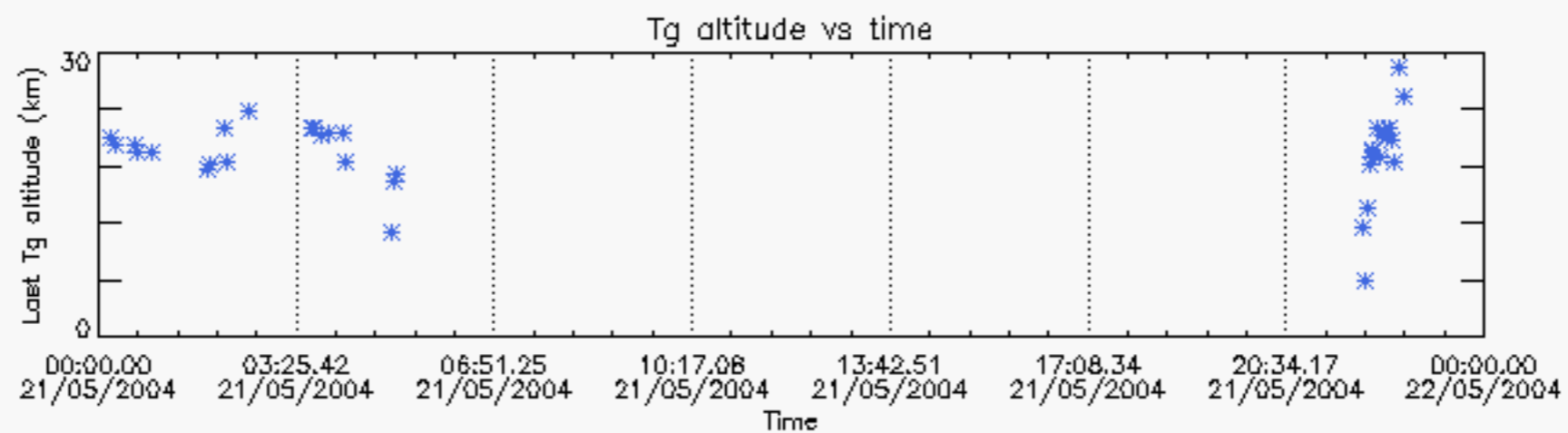
Percentage of saturation errors per profile



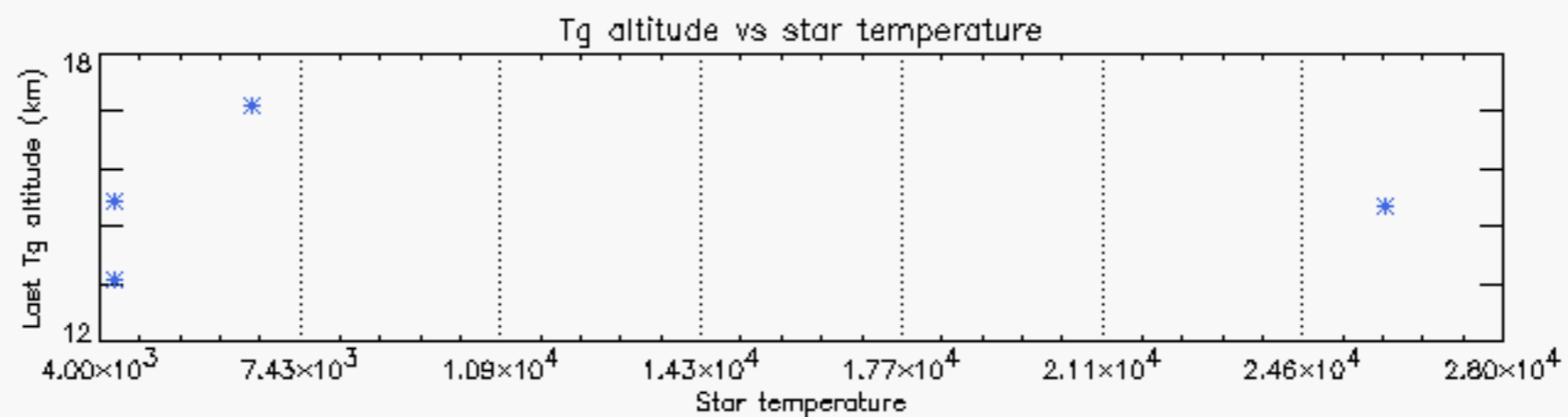
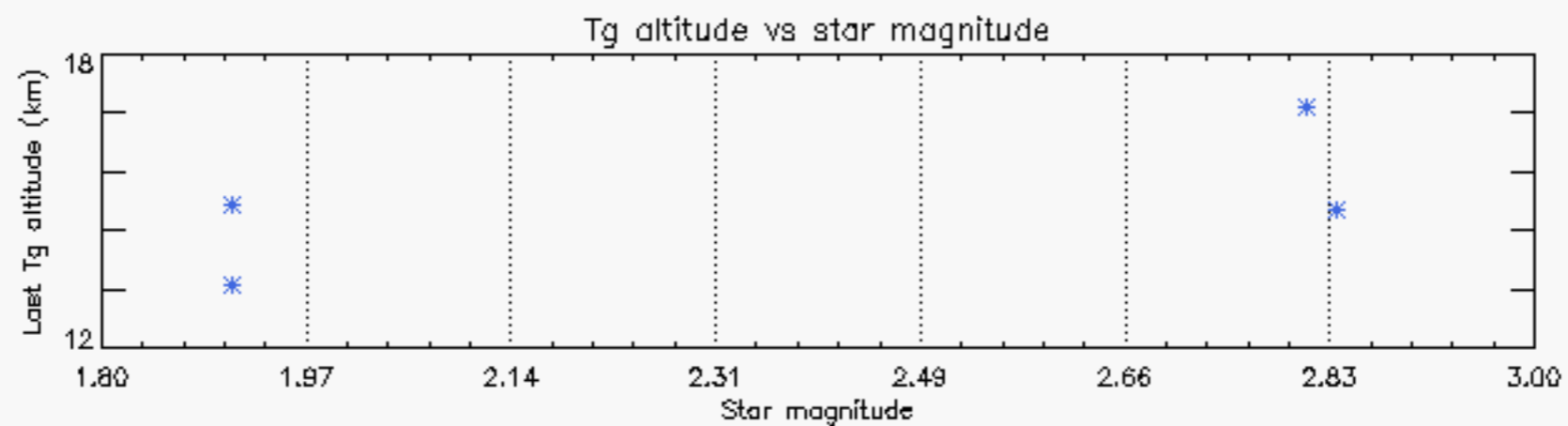
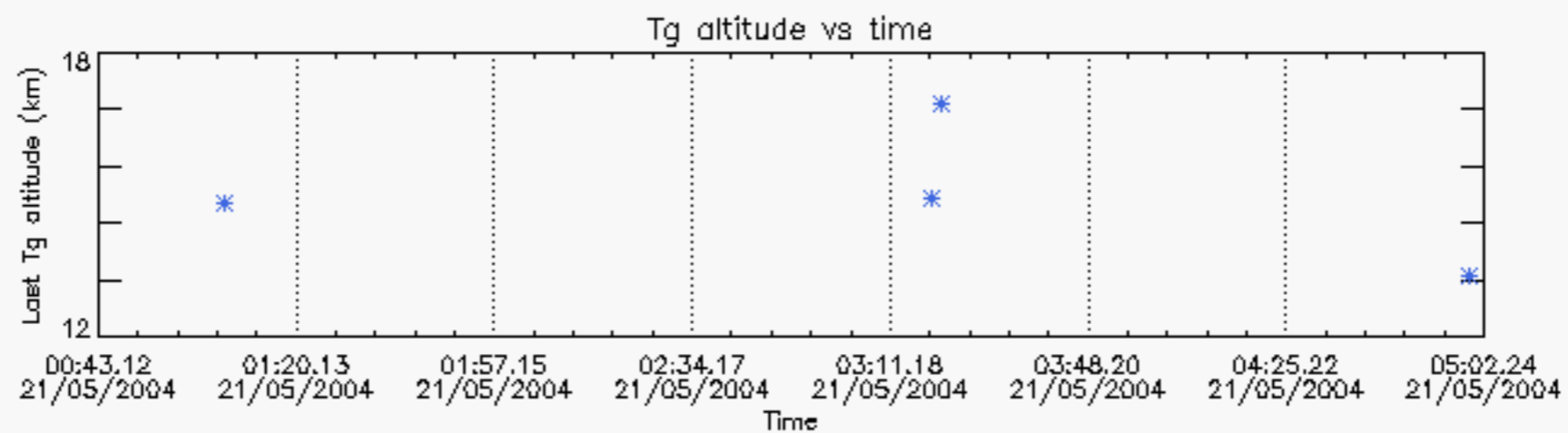
Tangent altitude at which the star is lost



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
10;	-3040.1;	01-MAY-2004	06:06:26;	Bright;	40.0;	36;	50Alp UMa	;	1.80;	6300;occ;	80;	0;	11339
11;	-2819.8;	01-MAY-2004	06:10:06;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;	11339
12;	-2592.8;	01-MAY-2004	06:13:53;	Bright;	37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	11339
13;	-2211.3;	01-MAY-2004	06:20:15;	Bright;	43.0;	89;	5Alp Cep	;	2.45;	8000;occ;	86;	0;	11339
14;	-2113.5;	01-MAY-2004	06:21:53;	Bright;	38.5;	76;	27Gam Cas	;	2.30;	30000;occ;	77;	0;	11339
15;	-2036.9;	01-MAY-2004	06:23:09;	Bright;	38.5;	68;	18Alp Cas	;	2.22;	4500;occ;	77;	0;	11339
16;	-1900.0;	01-MAY-2004	06:25:26;	Bright;	61.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	122;	0;	11339
17;	-1782.6;	01-MAY-2004	06:27:24;	Bright;	77.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	155;	0;	11339
18;	-1563.0;	01-MAY-2004	06:31:03;	Dark	;	92;	53Eps Cyg	;	2.50;	4500;occ;	152;	0;	11339
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
30;	698.6;	01-MAY-2004	07:08:45;	Dark	;	38;	20Eps Sgr	;	1.84;	11000;occ;	145;	0;	11340
31;	871.5;	01-MAY-2004	07:11:38;	Dark	;	10;	Bet Cen	;	0.61;	28000;occ;	84;	0;	11340
32;	999.1;	01-MAY-2004	07:13:45;	Dark	;	77;	Eps Cen	;	2.30;	28000;occ;	79;	0;	11340
33;	1106.1;	01-MAY-2004	07:15:32;	Dark	;	64;	Gam Cen	;	2.20;	10600;occ;	83;	0;	11340
34;	1267.9;	01-MAY-2004	07:18:14;	Dark	;	16;	21Alp Sco	;	1.02;	3000;occ;	140;	0;	11340
35;	1401.7;	01-MAY-2004	07:20:28;	Dark	;	80;	7Del Sco	;	2.32;	30000;occ;	124;	0;	11340
36;	1590.3;	01-MAY-2004	07:23:37;	Bright;	46.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	92;	0;	11340
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2;	-4445.5;	02-MAY-2004	00:09:36;	Bright;	46.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	93;	0;	11350	
3;	-4311.3;	02-MAY-2004	00:11:50;	Bright;	50.0;	104;	27Bet Lib	;	2.61;	13100;occ;	100;	0;	11350	
4;	-4137.9;	02-MAY-2004	00:14:43;	Bright;	37.5;	121;	29Gam Vir	;	2.74;	7200;occ;	75;	0;	11350	
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7;	-3591.2;	02-MAY-2004	00:23:50;	Bright;	46.5;	83;		;	2.38;	11000;occ;	93;	0;	11350	
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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	
14;	-2592.5;	02-MAY-2004	00:40:29;	Bright;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	11350	
15;	-2214.5;	02-MAY-2004	00:46:47;	Bright;	41.5;	89;	5Alp Cep	;	2.45;	8000;occ;	83;	0;	11350	
16;	-2116.1;	02-MAY-2004	00:48:25;	Bright;	46.0;	110;	37Del Cas	;	2.68;	8900;occ;	92;	0;	11350	
17;	-2035.2;	02-MAY-2004	00:49:46;	Bright;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	11350	
18;	-1904.4;	02-MAY-2004	00:51:57;	Bright;	62.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	125;	0;	11350	
19;	-1786.9;	02-MAY-2004	00:53:54;	Bright;	78.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	156;	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
23;	-791.9;	02-MAY-2004	01:10:29;	Dark	;	43.5;	52;	16Bet Cet	;	2.04;	4500;occ;	87;	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
26;	-354.9;	02-MAY-2004	01:17:46;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	11350
27;	-138.3;	02-MAY-2004	01:21:23;	Dark	;	45.0;	31;	Alp Gru	;	1.73;	15200;occ;	90;	0;	11350
28;	191.8;	02-MAY-2004	01:26:53;	Dark	;	43.0;	45;	Alp Pav	;	1.94;	26000;occ;	86;	0;	11351
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35; 1272.7; 02-MAY-2004 01:44:54; Dark ; 72.5; 16; 21Alp Sco ; 1.02; 3000;occ; 145; 0;11351
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10;-3201.8; 02-MAY-2004 02:10:55; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;11351
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10;-3114.4; 02-MAY-2004 03:52:59; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;11352
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18;-1787.3; 02-MAY-2004 04:15:06; Bright; 82.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 164; 0;11352
19;-1562.3; 02-MAY-2004 04:18:51; Dark ; 87.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 174; 0;11352
20;-1256.6; 02-MAY-2004 04:23:57; Dark ; 48.0; 90; 54Alp Peg ; 2.49; 11000;occ; 96; 0;11352
21; -986.8; 02-MAY-2004 04:28:26; Dark ; 71.5; 61; 8Eps Peg ; 2.10; 3900;occ; 143; 0;11352
22; -791.2; 02-MAY-2004 04:31:42; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;11352

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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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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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23;	-1088.8;	24-MAY-2004	18:00:14;	Dark	;	70.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	141;	0;	11675
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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
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