

GOMOS Daily Report 13-JUN-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	15JUN2004 04:21:43
Data source version	GOMOS/4.02
Start time of products	13-JUN-2004 (13JUN2004 00:00:00)
Stop time of products	14-JUN-2004 (14JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

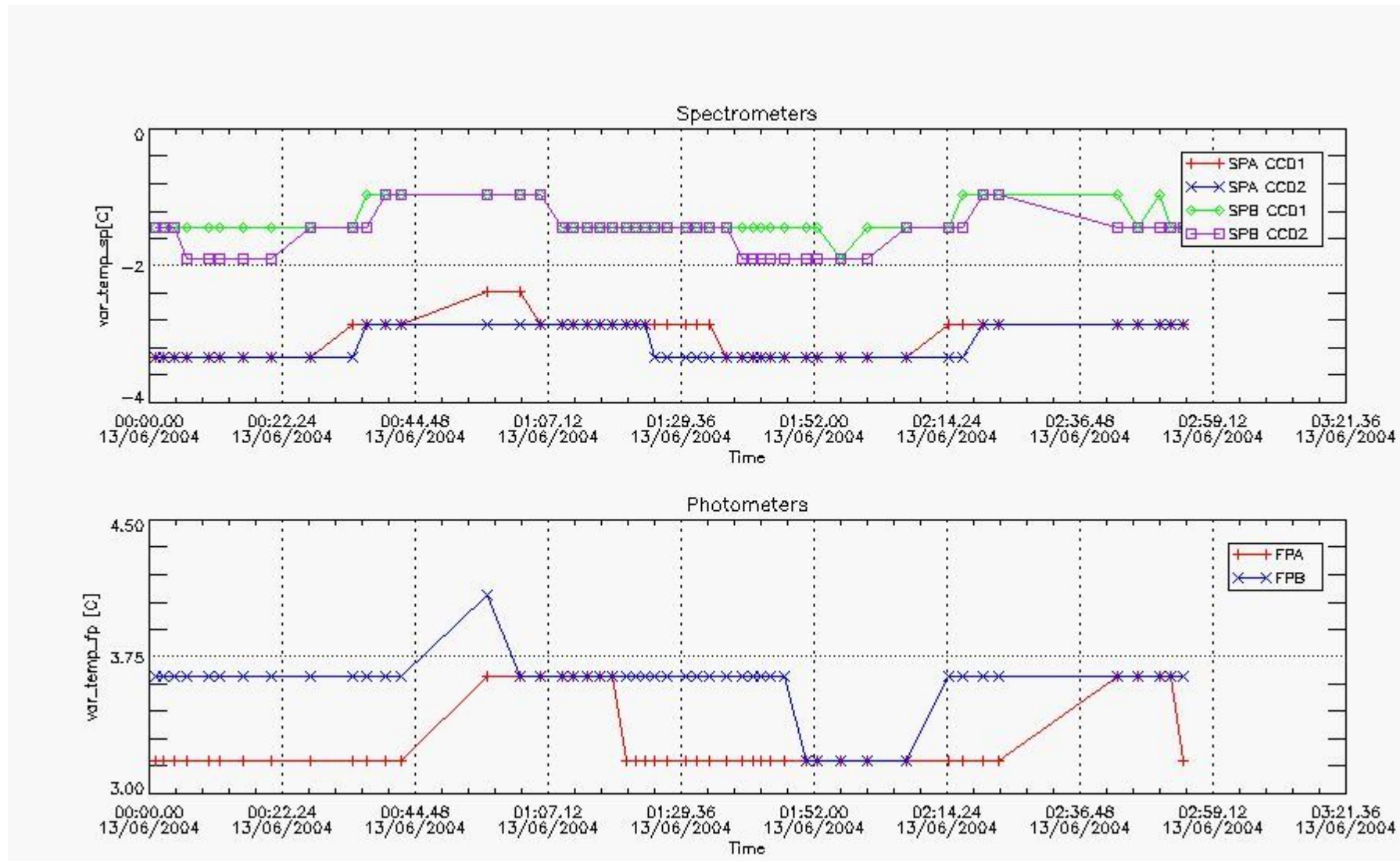
2. Summary of products arrived in PCF

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_1PNPDE20040613_000102_000000402027_00374_11951_0006.N1	13-JUN-2004 00:01:02	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	11951	No
GOM_TRA_1PNPDE20040613_000227_000000372027_00374_11951_0007.N1	13-JUN-2004 00:02:27	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	11951	No
GOM_TRA_1PNPDE20040613_000408_000000392027_00374_11951_0008.N1	13-JUN-2004 00:04:08	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	11951	No
GOM_TRA_1PNPDE20040613_000616_000000372027_00374_11951_0009.N1	13-JUN-2004 00:06:16	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	11951	No
GOM_TRA_1PNPDE20040613_000959_000000392027_00374_11951_0010.N1	13-JUN-2004 00:09:59	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	11951	No
GOM_TRA_1PNPDE20040613_001152_000000402027_00374_11951_0011.N1	13-JUN-2004 00:11:52	Bright	39.500	55	79Zet UMa	2.0600	10200.	79	11951	No
GOM_TRA_1PNPDE20040613_001550_000000372027_00374_11951_0012.N1	13-JUN-2004 00:15:50	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	11951	No
GOM_TRA_1PNPDE20040613_002028_000000362027_00374_11951_0013.N1	13-JUN-2004 00:20:28	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	11951	No
GOM_TRA_1PNPDE20040613_002701_000002552027_00374_11951_0014.N1	13-JUN-2004 00:27:01	Bright	255.00	92	53Eps Cyg	2.5000	4500.0	510	11951	No
GOM_TRA_1PNPDE20040613_003410_000000432027_00374_11951_0015.N1	13-JUN-2004 00:34:10	Twilight	42.500	73	57Gam1And	2.2600	13100.	85	11951	No
GOM_TRA_1PNPDE20040613_003631_000000592027_00374_11951_0016.N1	13-JUN-2004 00:36:31	Twilight	58.500	53	43Bet And	2.0480	3300.0	117	11951	No
GOM_TRA_1PNPDE20040613_003955_000000482027_00374_11951_0017.N1	13-JUN-2004 00:39:55	Twilight	48.000	50	13Alp Ari	2.0070	4250.0	96	11951	No
GOM_TRA_1PNPDE20040613_004223_000001642027_00374_11951_0018.N1	13-JUN-2004 00:42:23	Dark	163.50	93	53Bet Peg	2.5200	3100.0	327	11951	No
GOM_TRA_1PNPDE20040613_005653_000000382027_00374_11951_0019.N1	13-JUN-2004 00:56:53	Dark	38.000	157	The1Eri	2.9060	9300.0	76	11951	No
GOM_TRA_1PNPDE20040613_010230_000000462027_00374_11951_0020.N1	13-JUN-2004 01:02:30	Dark	45.500	9	Alp Eri	0.45300	24000.	91	11951	No
GOM_TRA_1PNPDE20040613_010550_000000682027_00375_11952_0021.N1	13-JUN-2004 01:05:50	Dark	68.000	18	24Alp PsA	1.1660	9700.0	136	11952	No
GOM_TRA_1PNPDE20040613_010938_000000492027_00375_11952_0022.N1	13-JUN-2004 01:09:38	Dark	48.500	31	Alp Gru	1.7340	15200.	97	11952	No
GOM_TRA_1PNPDE20040613_011121_000000602027_00375_11952_0023.N1	13-JUN-2004 01:11:21	Dark	60.000	172	Gam Gru	3.0030	13100.	120	11952	No
GOM_TRA_1PNPDE20040613_011341_000000462027_00375_11952_0024.N1	13-JUN-2004 01:13:41	Twilight	46.000	45	Alp Pav	1.9400	26000.	92	11952	No
GOM_TRA_1PNPDE20040613_011559_000000502027_00375_11952_0025.N1	13-JUN-2004 01:15:59	Twilight	49.500	43	Alp TrA	1.9100	4250.0	99	11952	No
GOM_TRA_1PNPDE20040613_011755_000000392027_00375_11952_0026.N1	13-JUN-2004 01:17:55	Bright	38.500	134	Bet TrA	2.8100	6600.0	77	11952	No
GOM_TRA_1PNPDE20040613_012016_000000422027_00375_11952_0027.N1	13-JUN-2004 01:20:16	Bright	41.500	147	Alp Ara	2.8770	26000.	83	11952	No
GOM_TRA_1PNPDE20040613_012202_000000432027_00375_11952_0028.N1	13-JUN-2004 01:22:02	Bright	43.000	40	The Sco	1.8590	7100.0	86	11952	No
GOM_TRA_1PNPDE20040613_012329_000000512027_00375_11952_0029.N1	13-JUN-2004 01:23:29	Bright	51.000	38	20Eps Sgr	1.8360	11000.	102	11952	No
GOM_TRA_1PNPDE20040613_012512_000000502027_00375_11952_0030.N1	13-JUN-2004 01:25:12	Bright	49.500	75	26Eps Sco	2.2910	4250.0	99	11952	No
GOM_TRA_1PNPDE20040613_012719_000000612027_00375_11952_0000.N1	13-JUN-2004 01:27:19	Bright	60.500	155	41Pi Sgr	2.9000	6600.0	121	11952	No
GOM_TRA_1PNPDE20040613_013025_000000432027_00375_11952_0001.N1	13-JUN-2004 01:30:25	Bright	42.500	86	35Eta Oph	2.4300	10200.	85	11952	No
GOM_TRA_1PNPDE20040613_013212_000000402027_00375_11952_0002.N1	13-JUN-2004 01:32:12	Bright	40.000	98	13Zet Oph	2.5710	30000.	80	11952	No
GOM_TRA_1PNPDE20040613_013416_000000412027_00375_11952_0003.N1	13-JUN-2004 01:34:16	Bright	41.000	120	1Del Oph	2.7340	3200.0	82	11952	No
GOM_TRA_1PNPDE20040613_013719_000000382027_00375_11952_0004.N1	13-JUN-2004 01:37:19	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	11952	No
GOM_TRA_1PNPDE20040613_013948_000000452027_00375_11952_0005.N1	13-JUN-2004 01:39:48	Bright	44.500	59	55Alp Oph	2.0800	8900.0	89	11952	No
GOM_TRA_1PNPDE20040613_014138_000000422027_00375_11952_0006.N1	13-JUN-2004 01:41:38	Bright	41.500	127	27Bet Her	2.7810	4700.0	83	11952	No
GOM_TRA_1PNPDE20040613_014304_000000382027_00375_11952_0007.N1	13-JUN-2004 01:43:04	Bright	37.500	67	5Alp CrB	2.2210	11000.	75	11952	No
GOM_TRA_1PNPDE20040613_014443_000000422027_00375_11952_0008.N1	13-JUN-2004 01:44:43	Bright	42.000	133	40Zet Her	2.8070	6000.0	84	11952	No
GOM_TRA_1PNPDE20040613_014652_000000382027_00375_11952_0009.N1	13-JUN-2004 01:46:52	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	11952	No
GOM_TRA_1PNPDE20040613_015036_000000412027_00375_11952_0010.N1	13-JUN-2004 01:50:36	Bright	40.500	39	85Eta UMa	1.8540	24000.	81	11952	No
GOM_TRA_1PNPDE20040613_015229_000000382027_00375_11952_0011.N1	13-JUN-2004 01:52:29	Bright	38.000	55	79Zet UMa	2.0600	10200.	76	11952	No
GOM_TRA_1PNPDE20040613_015625_000000412027_00375_11952_0012.N1	13-JUN-2004 01:56:25	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	11952	No
GOM_TRA_1PNPDE20040613_020104_000000372027_00375_11952_0013.N1	13-JUN-2004 02:01:04	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	11952	No
GOM_TRA_1PNPDE20040613_020733_000002552027_00375_11952_0014.N1	13-JUN-2004 02:07:33	Bright	255.00	92	53Eps Cyg	2.5000	4500.0	510	11952	No
GOM_TRA_1PNPDE20040613_021445_000000432027_00375_11952_0015.N1	13-JUN-2004 02:14:45	Twilight	43.000	73	57Gam1And	2.2600	13100.	86	11952	No
GOM_TRA_1PNPDE20040613_021708_000000552027_00375_11952_0016.N1	13-JUN-2004 02:17:08	Twilight	54.500	53	43Bet And	2.0480	3300.0	109	11952	No
GOM_TRA_1PNPDE20040613_022031_000000502027_00375_11952_0017.N1	13-JUN-2004 02:20:31	Twilight	49.500	50	13Alp Ari	2.0070	4250.0	99	11952	No
GOM_TRA_1PNPDE20040613_022301_000001782027_00375_11952_0018.N1	13-JUN-2004 02:23:01	Dark	178.00	93	53Bet Peg	2.5200	3100.0	356	11952	No
GOM_TRA_1PNPDE20040613_024306_000000472027_00375_11952_0019.N1	13-JUN-2004 02:43:06	Dark	46.500	9	Alp Eri	0.45300	24000.	93	11952	No
GOM_TRA_1PNPDE20040613_024628_000000762027_00376_11953_0020.N1	13-JUN-2004 02:46:28	Dark	76.000	18	24Alp PsA	1.1660	9700.0	152	11953	No
GOM_TRA_1PNPDE20040613_025016_000000502027_00376_11953_0021.N1	13-JUN-2004 02:50:16	Dark	50.000	31	Alp Gru	1.7340	15200.	100	11953	No
GOM_TRA_1PNPDE20040613_025158_000000602027_00376_11953_0022.N1	13-JUN-2004 02:51:58	Dark	60.000	172	Gam Gru	3.0030	13100.	120	11953	No
GOM_TRA_1PNPDE20040613_025418_000000452027_00376_11953_0023.N1	13-JUN-2004 02:54:18	Twilight	45.000	45	Alp Pav	1.9400	26000.	90	11953	No

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



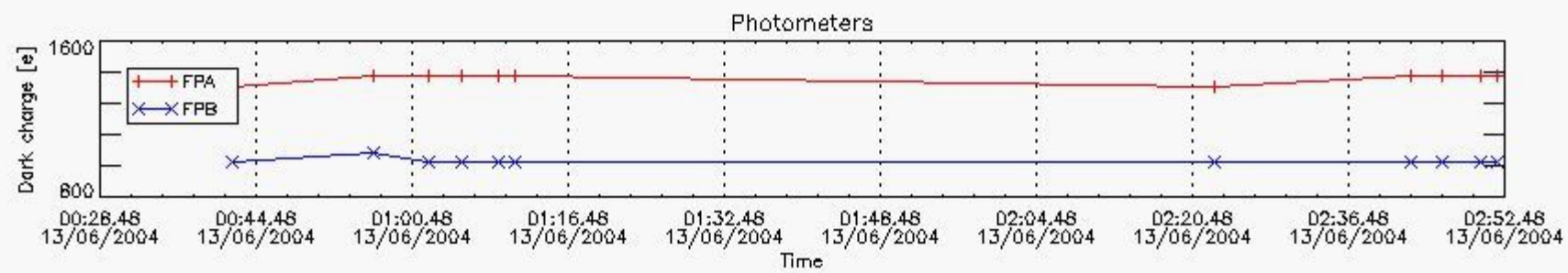
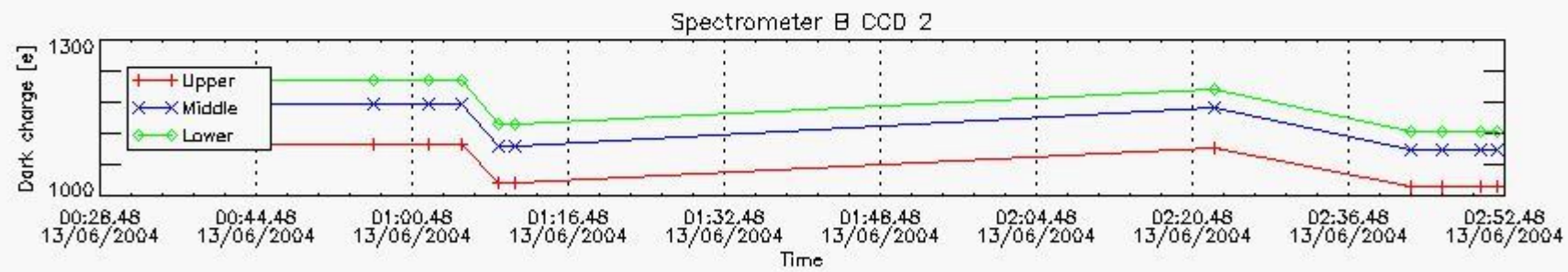
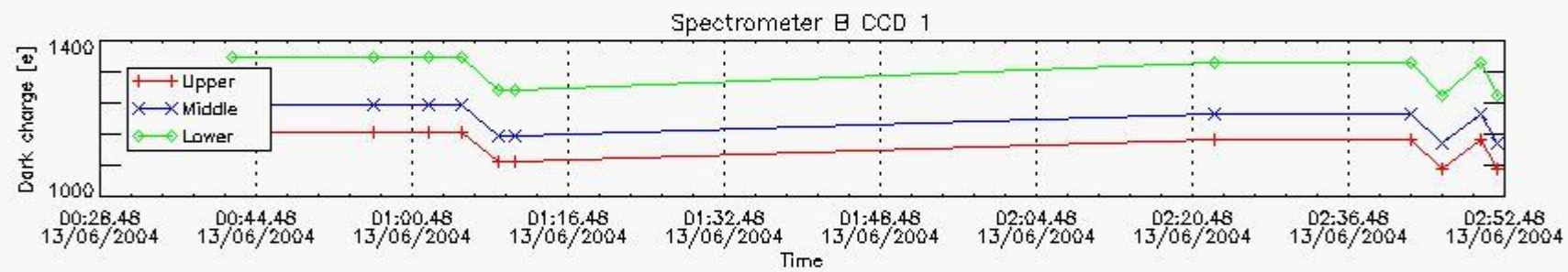
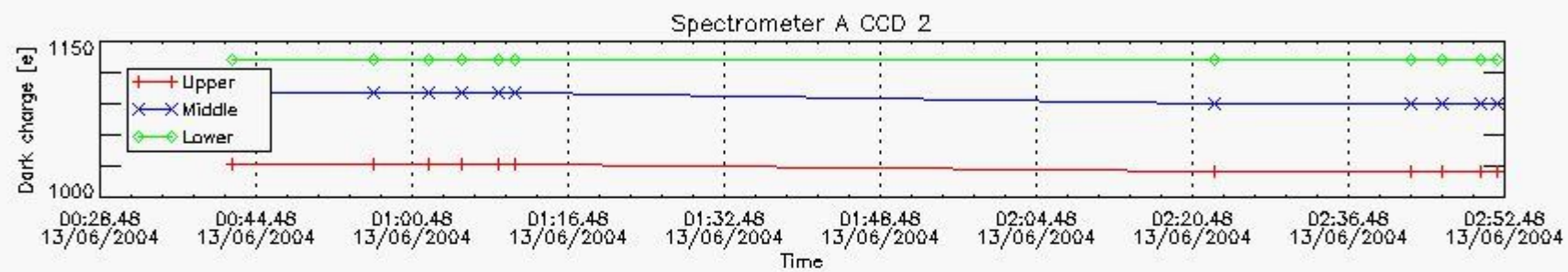
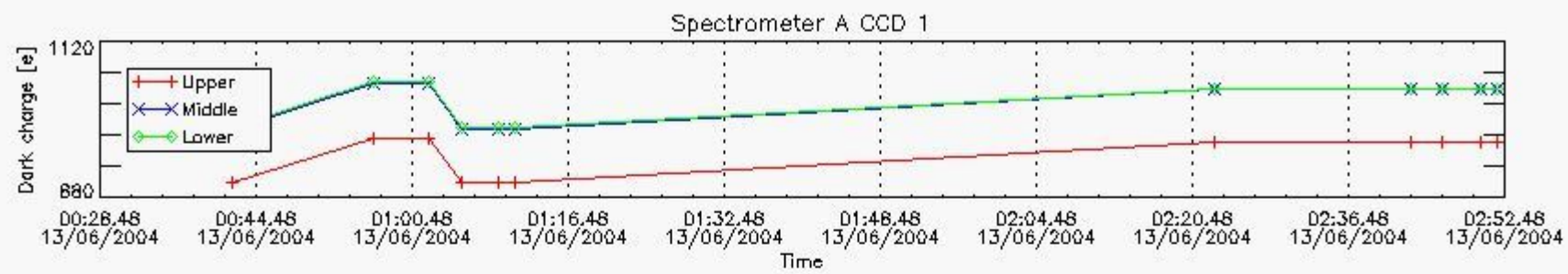
4. Overview of dark signal processing per product

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



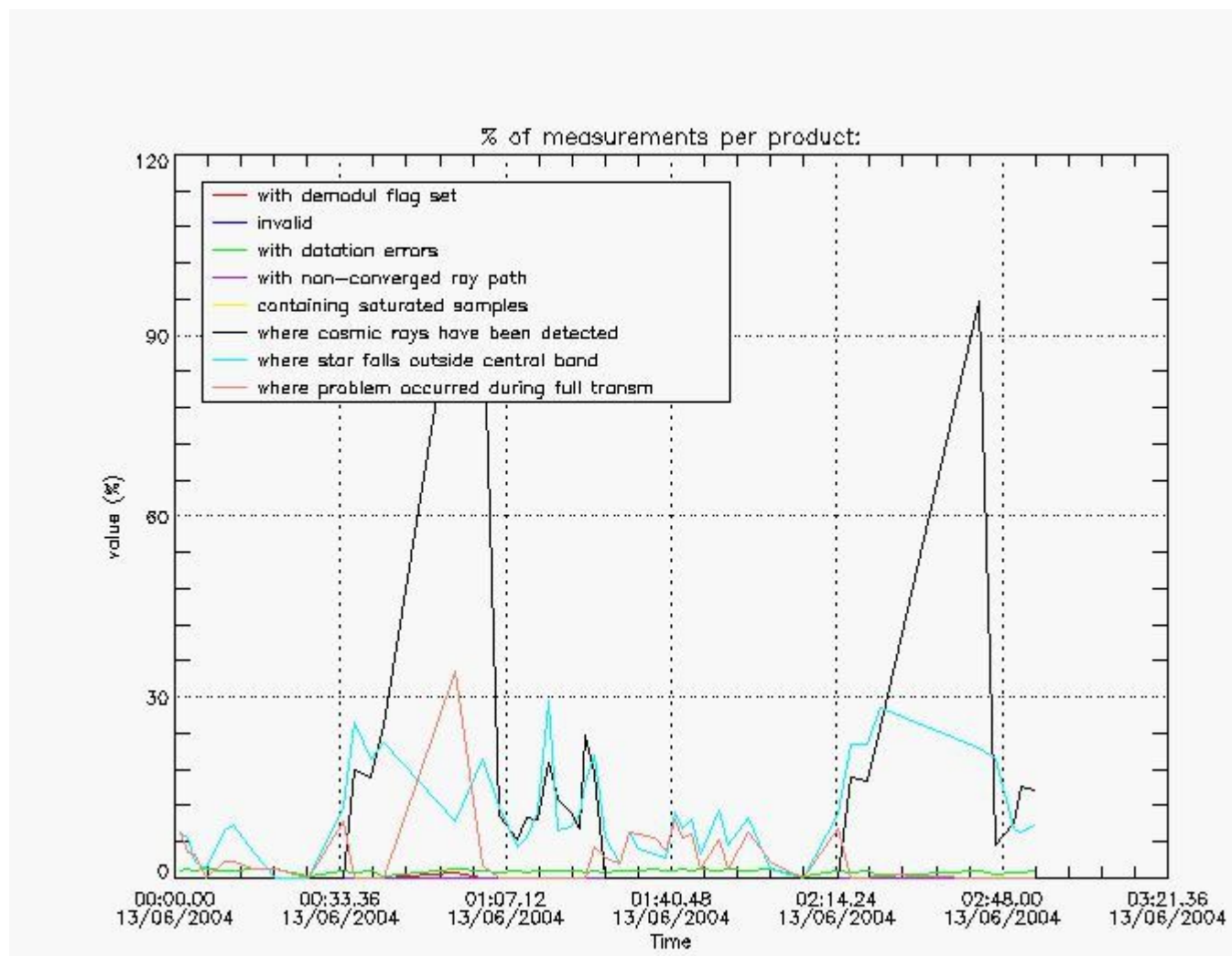
5. Demodulation flag and quality information monitoring

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.

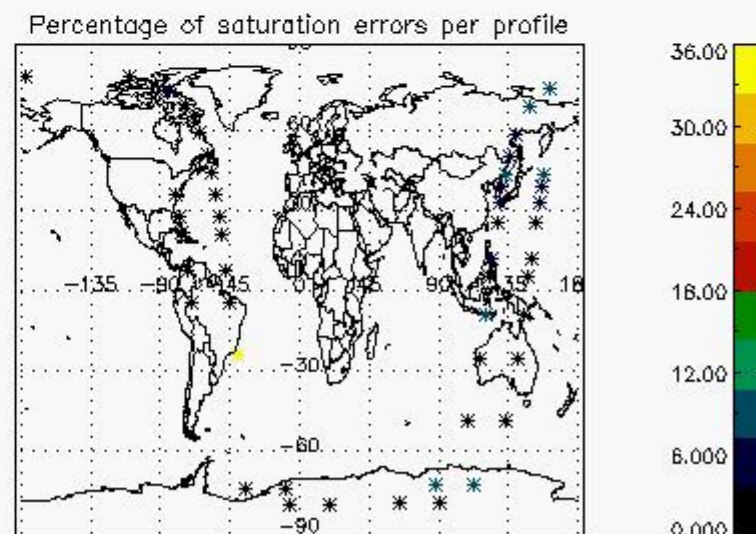
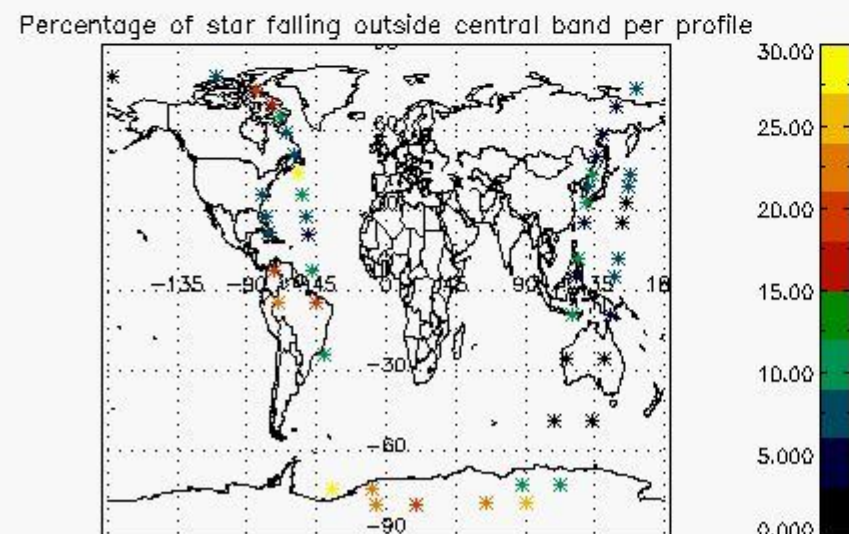
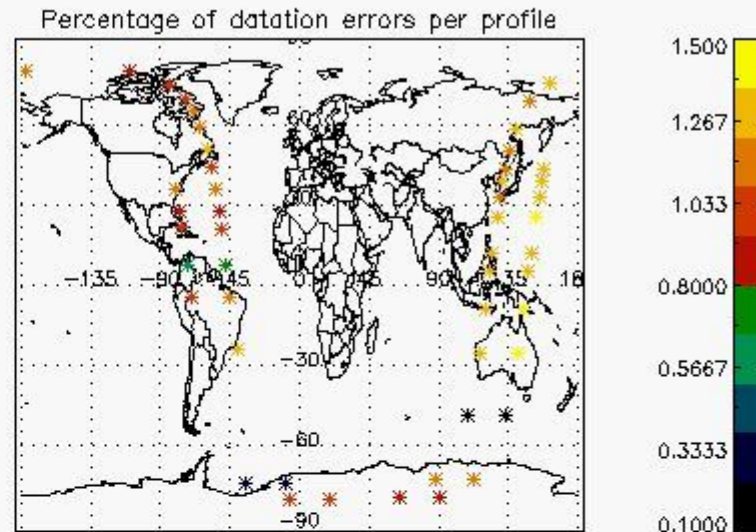
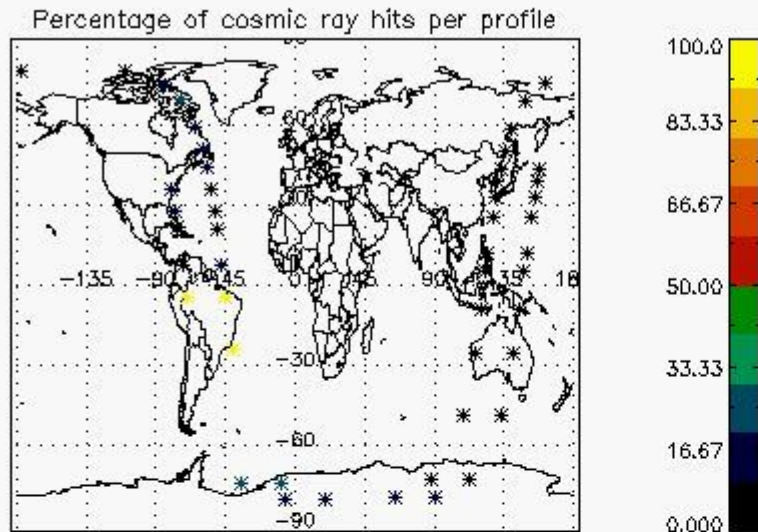
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	6.12245 %
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)



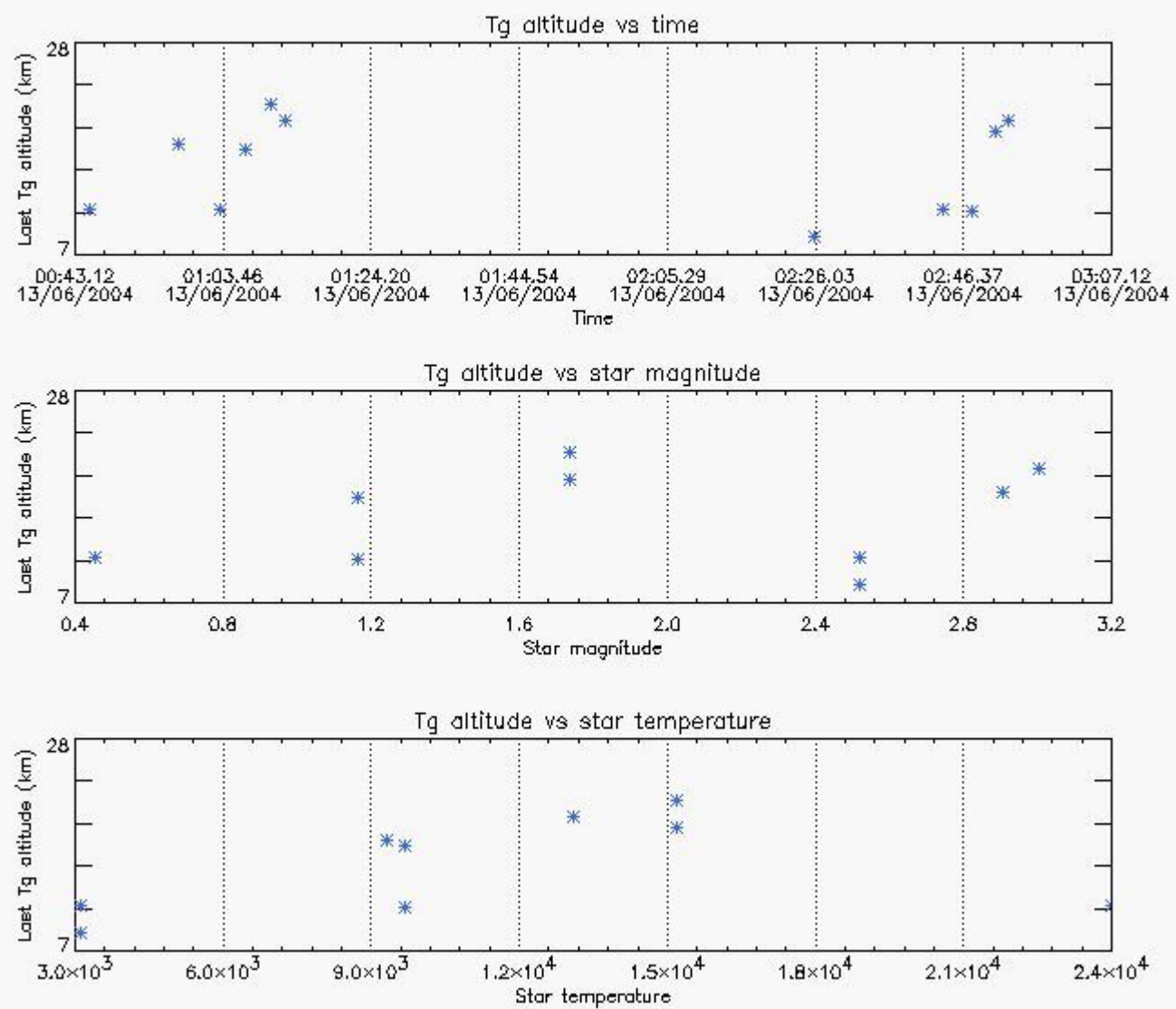
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.583	20.795	13.334
St. deviation:	4.7008	4.1829	4.5072
Maximum:	21.934	30.771	18.794
Minimum:	8.7700	10.583	6.5549
Number of data:	11.000	29.000	9.0000

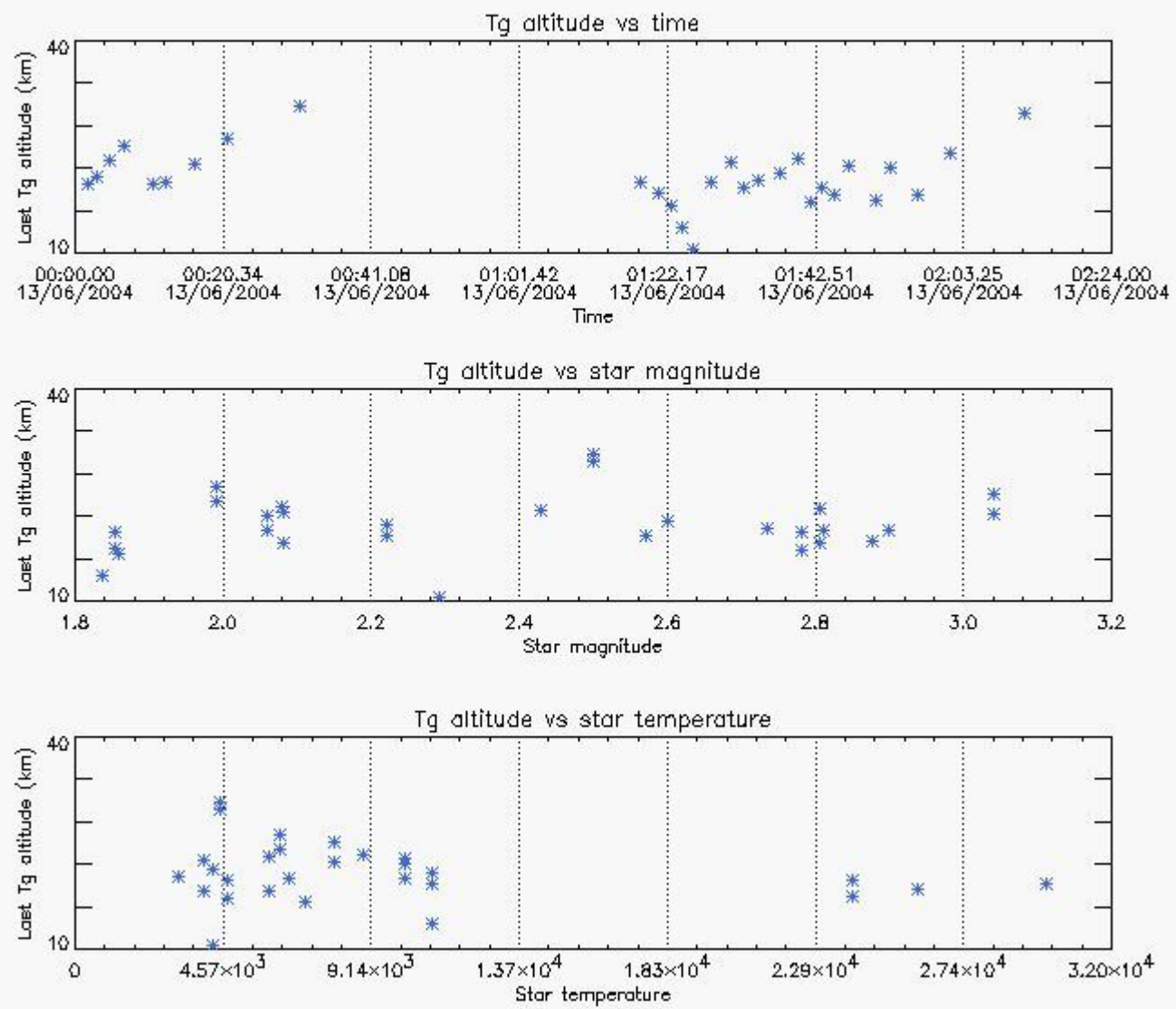
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



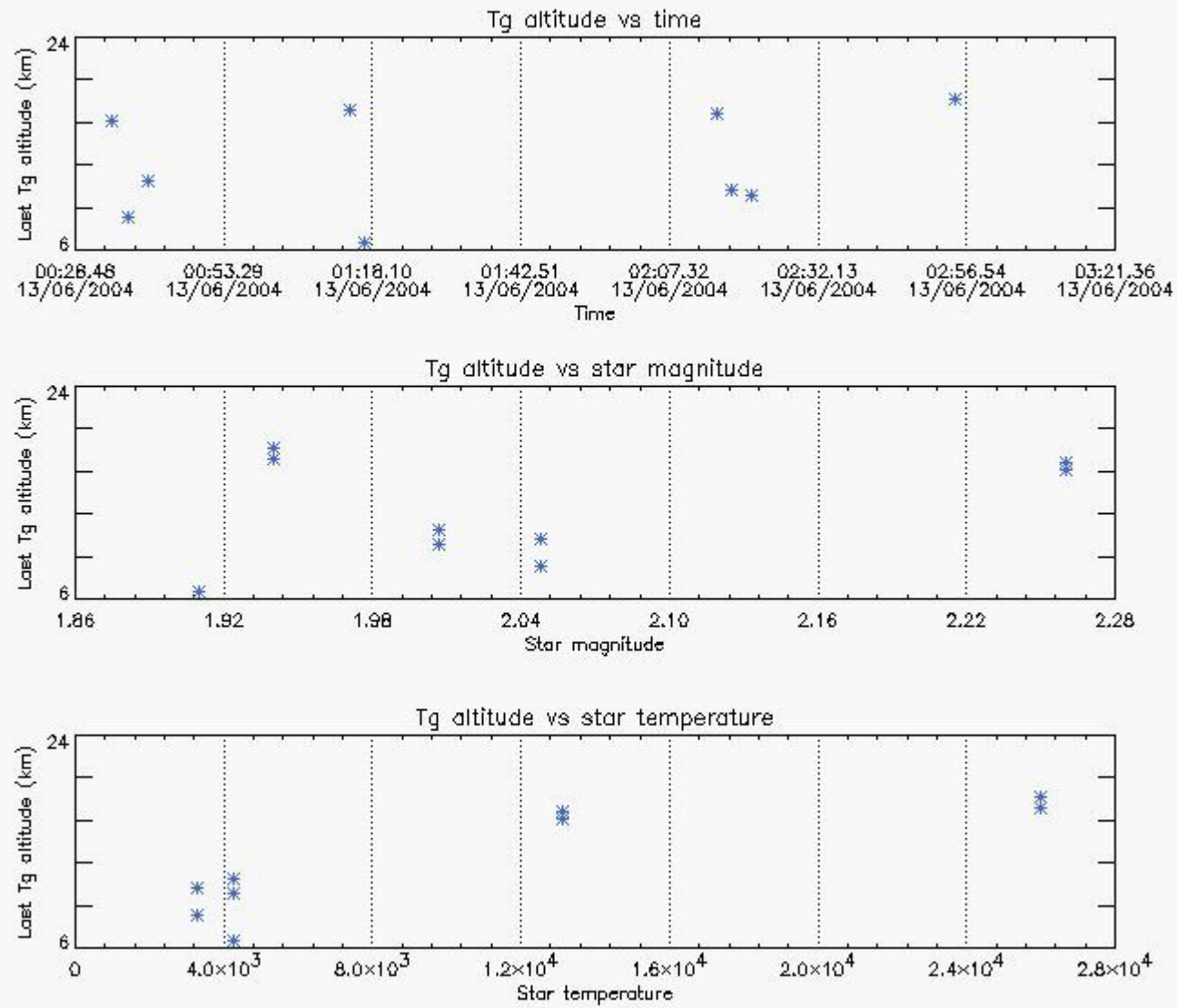
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

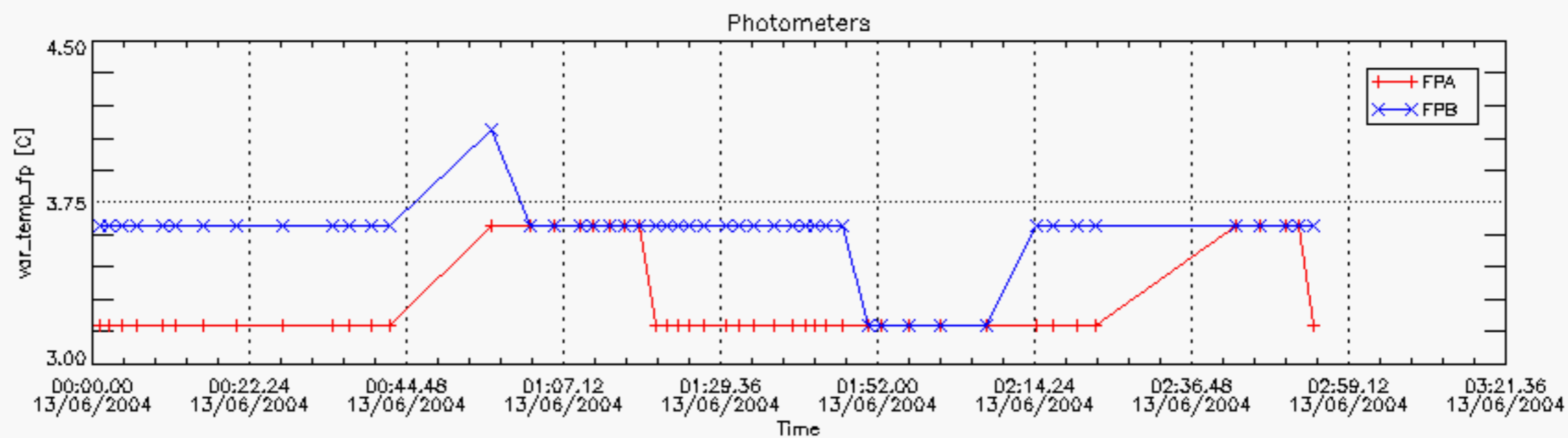
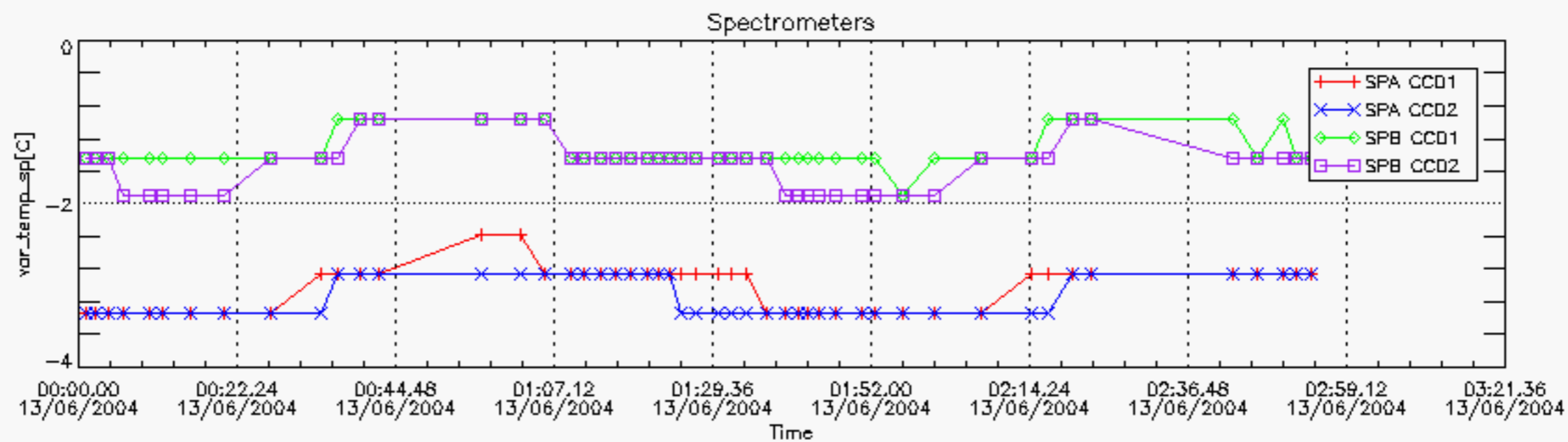
Tangent altitude at which the star is lost

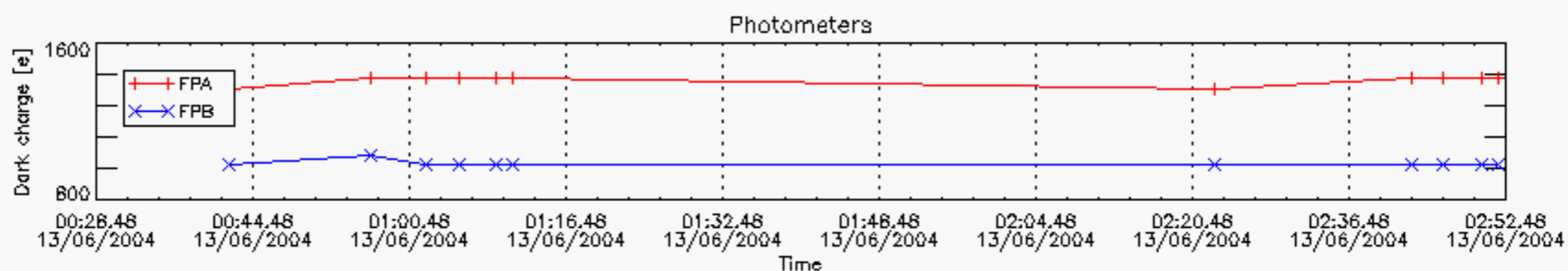
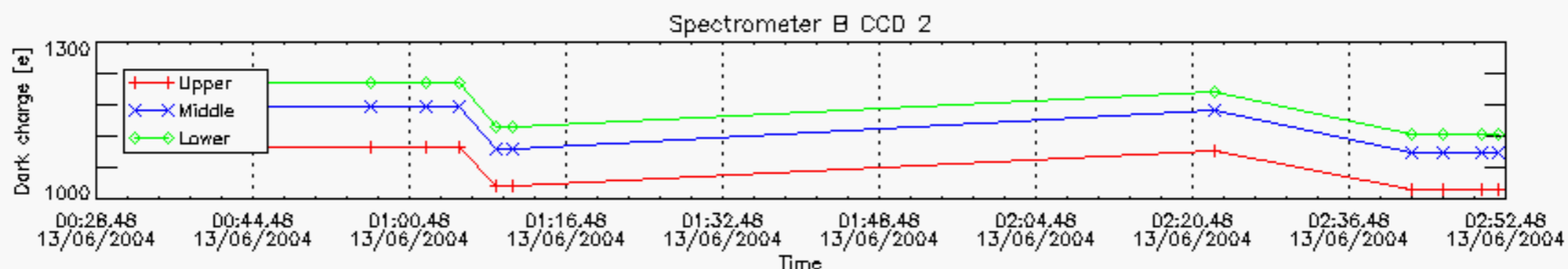
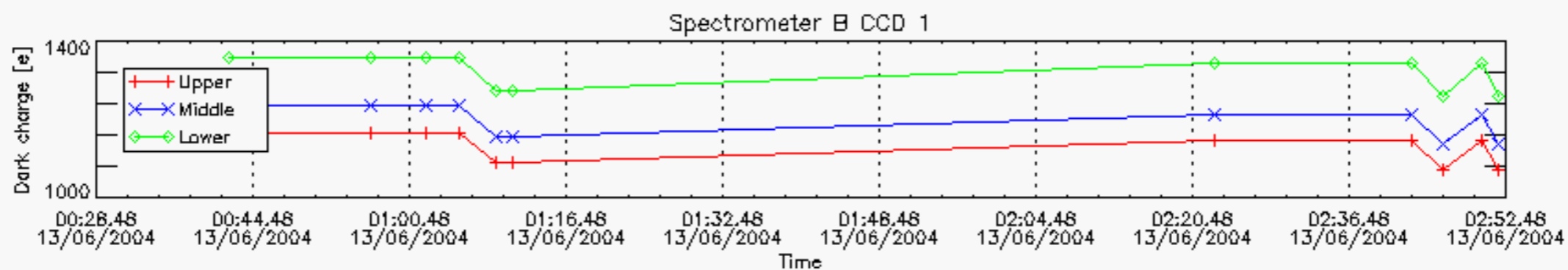
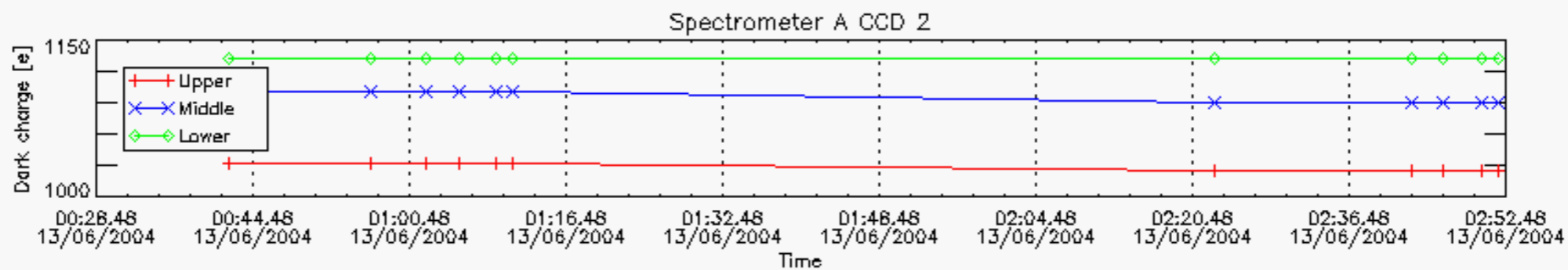
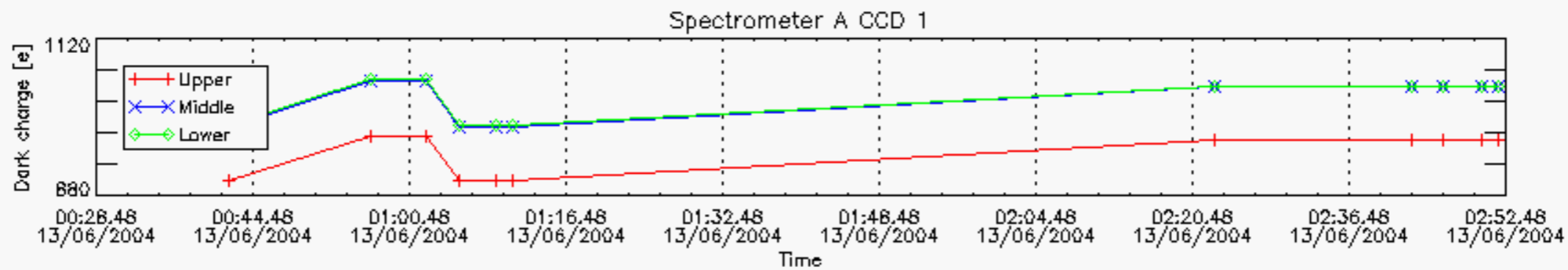


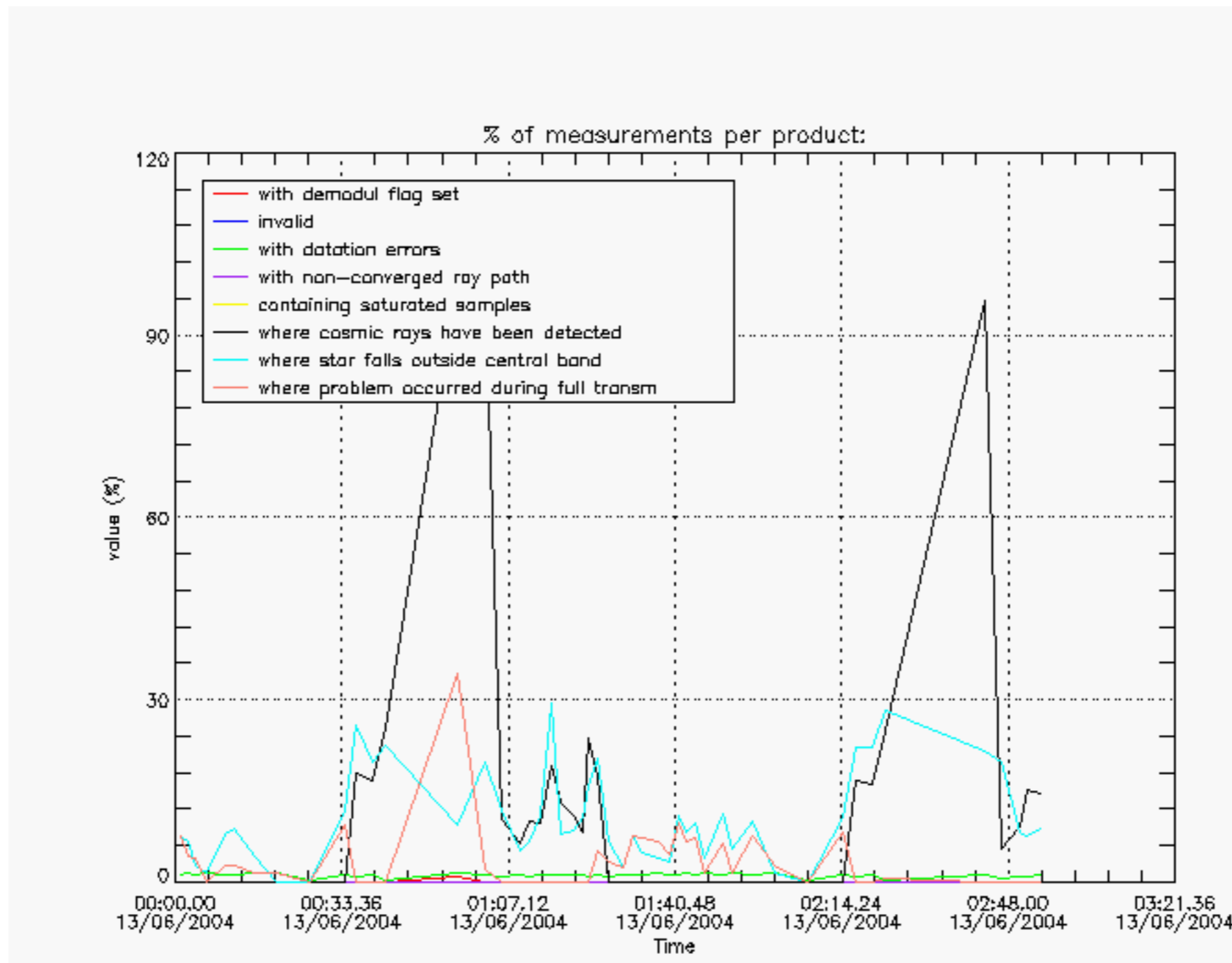
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

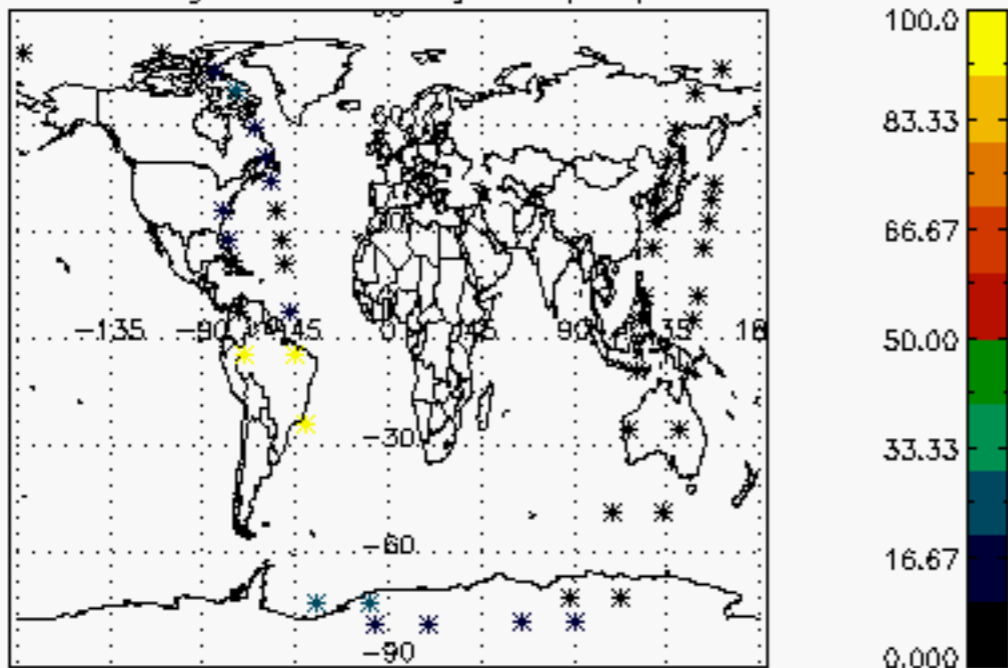
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.3	1449.9	1461.1	1447.4
St. deviation:	5.2179	6.6239	7.1572	8.2404
Maximum:	1505.0	1505.0	1509.0	1492.0
Minimum:	1425.0	1407.0	1449.0	1438.0
Number of data:	19050.	19050.	39900.	39900.



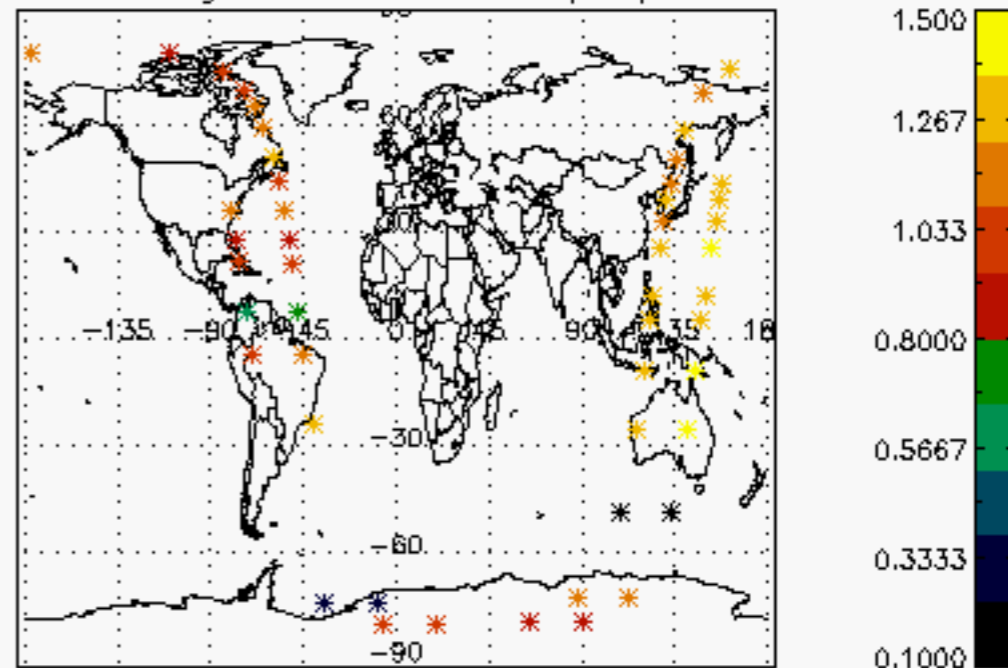




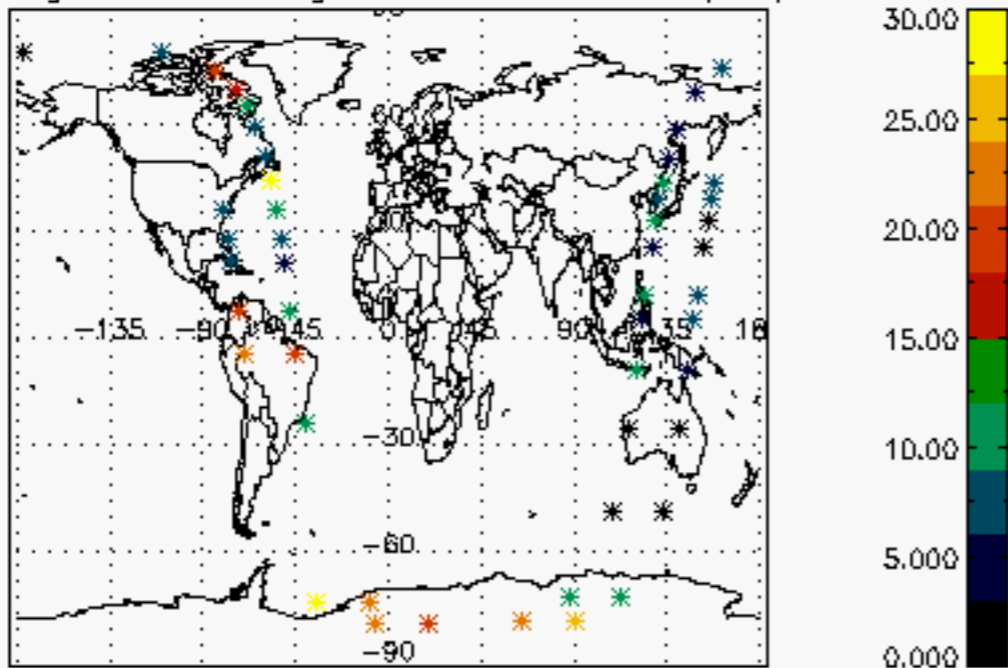
Percentage of cosmic ray hits per profile



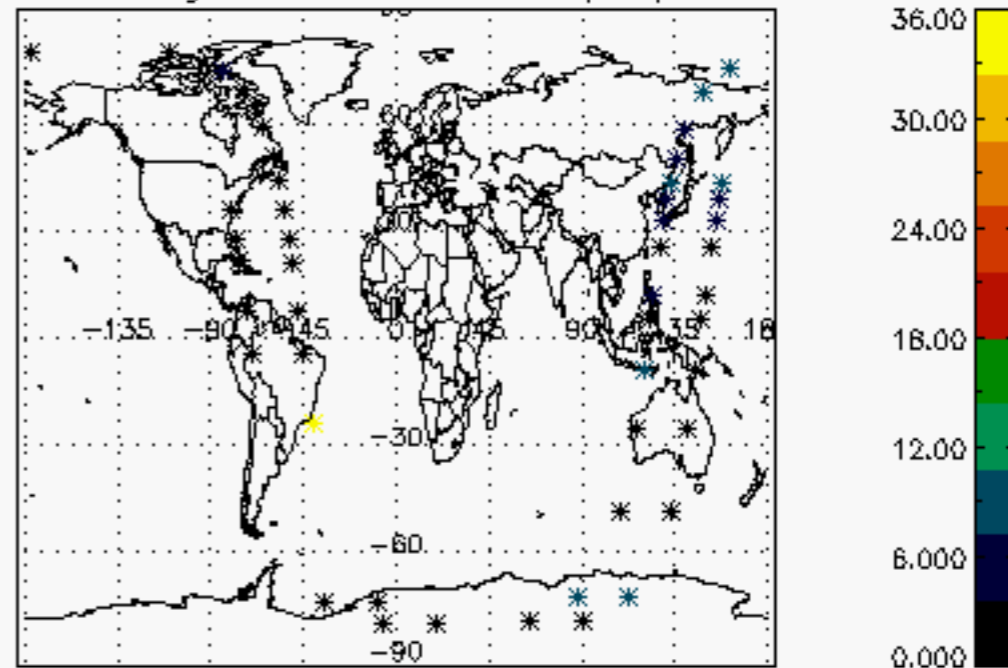
Percentage of datation errors per profile



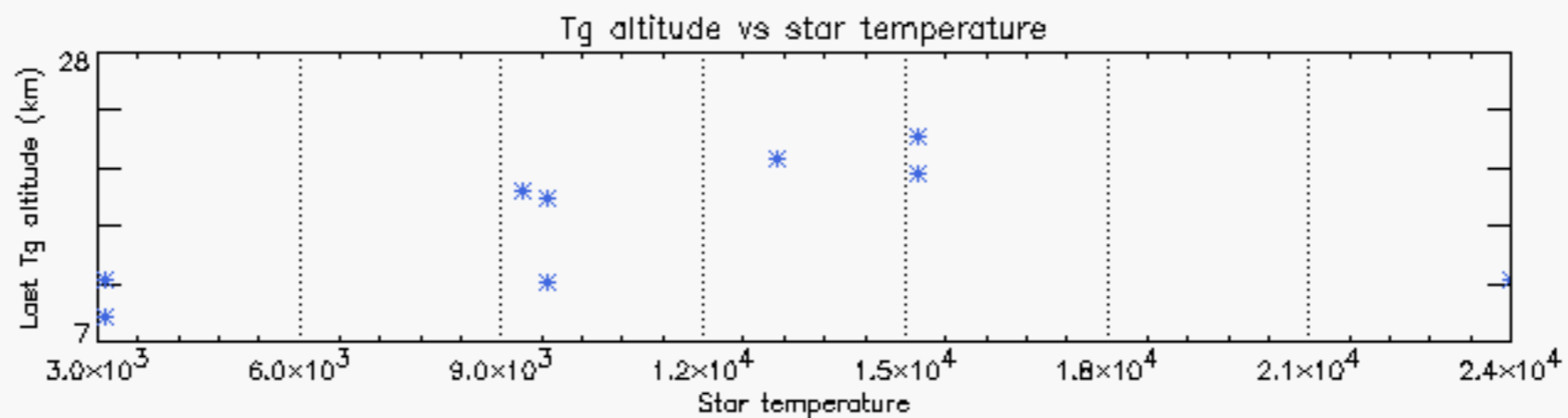
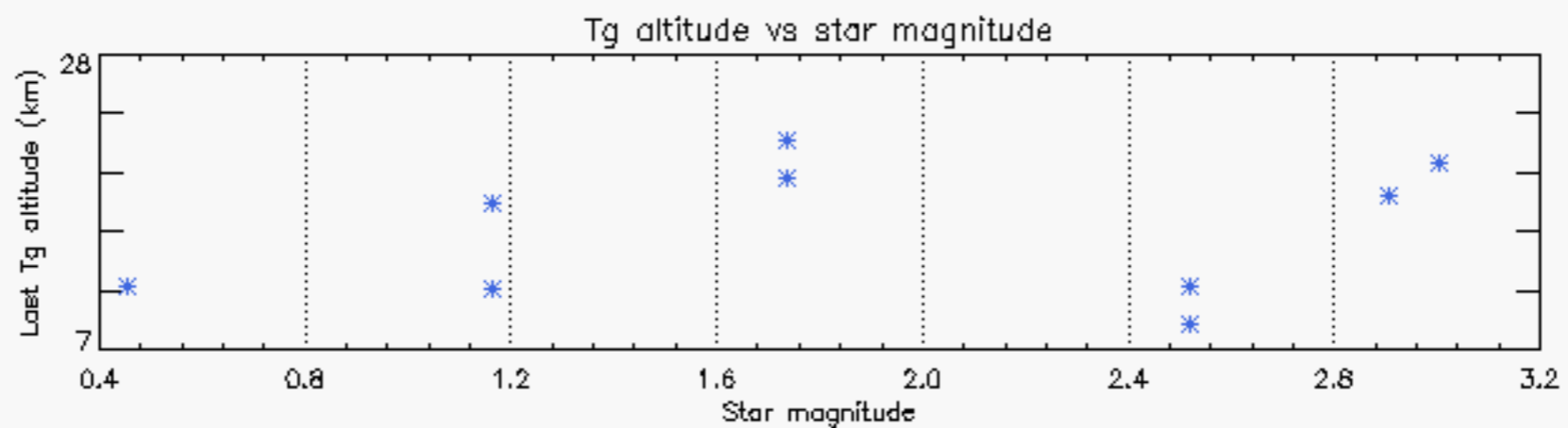
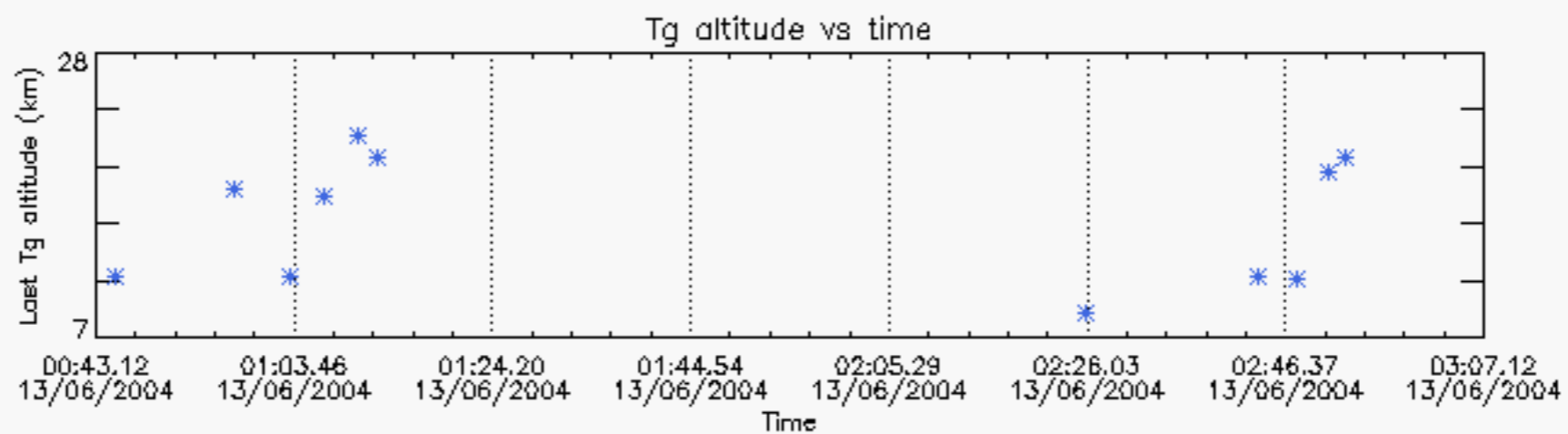
Percentage of star falling outside central band per profile



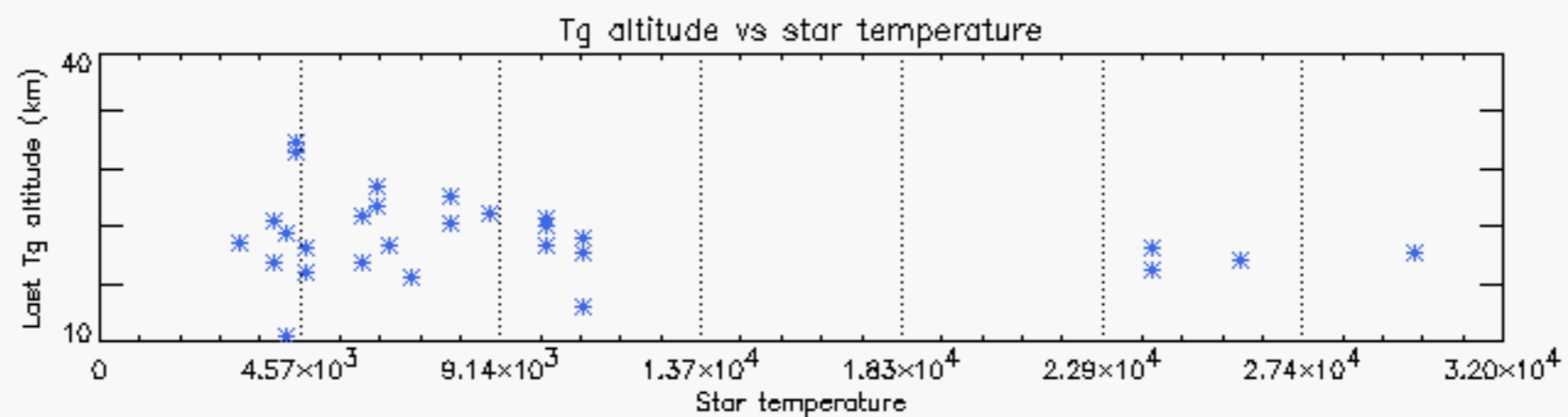
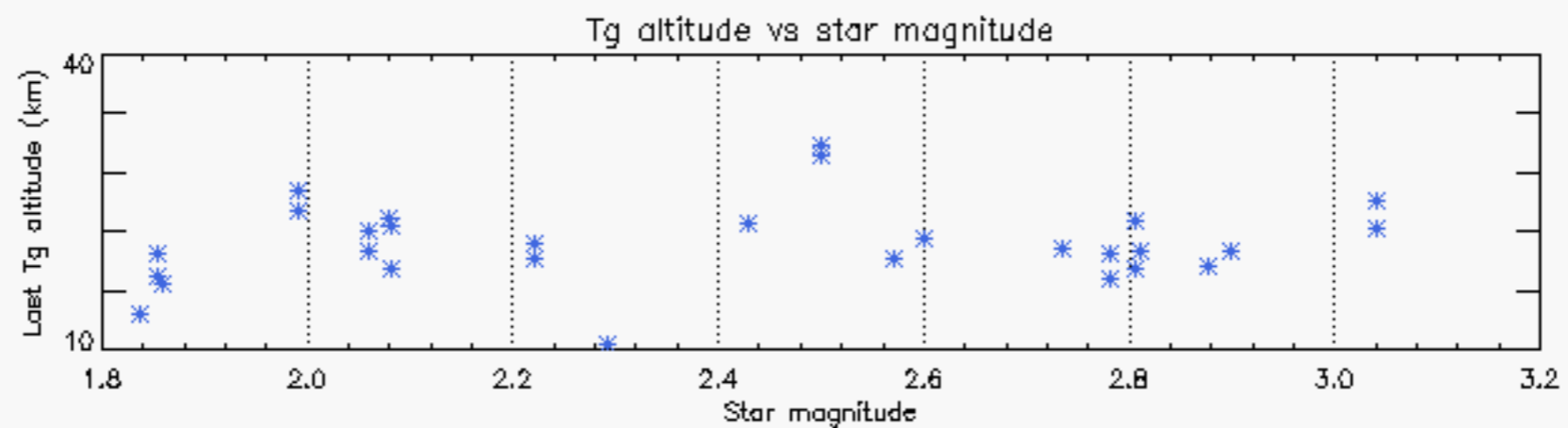
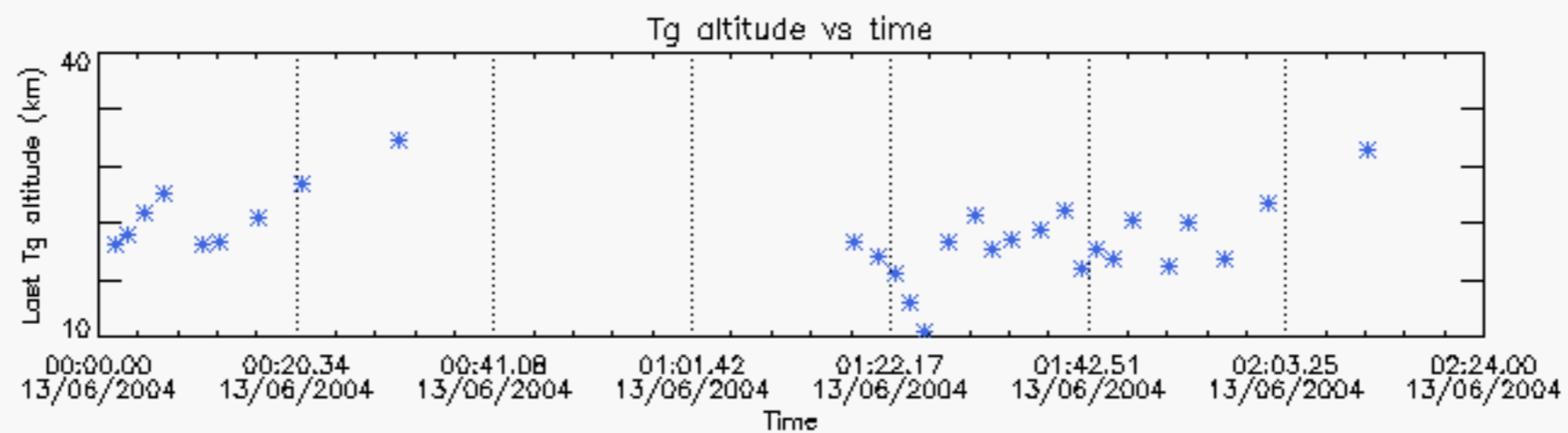
Percentage of saturation errors per profile



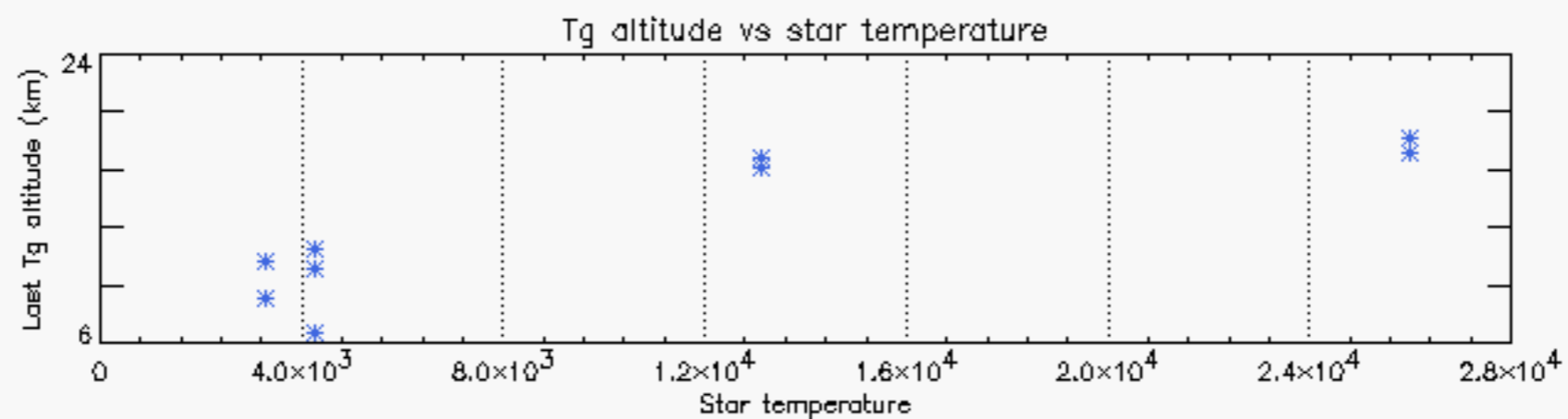
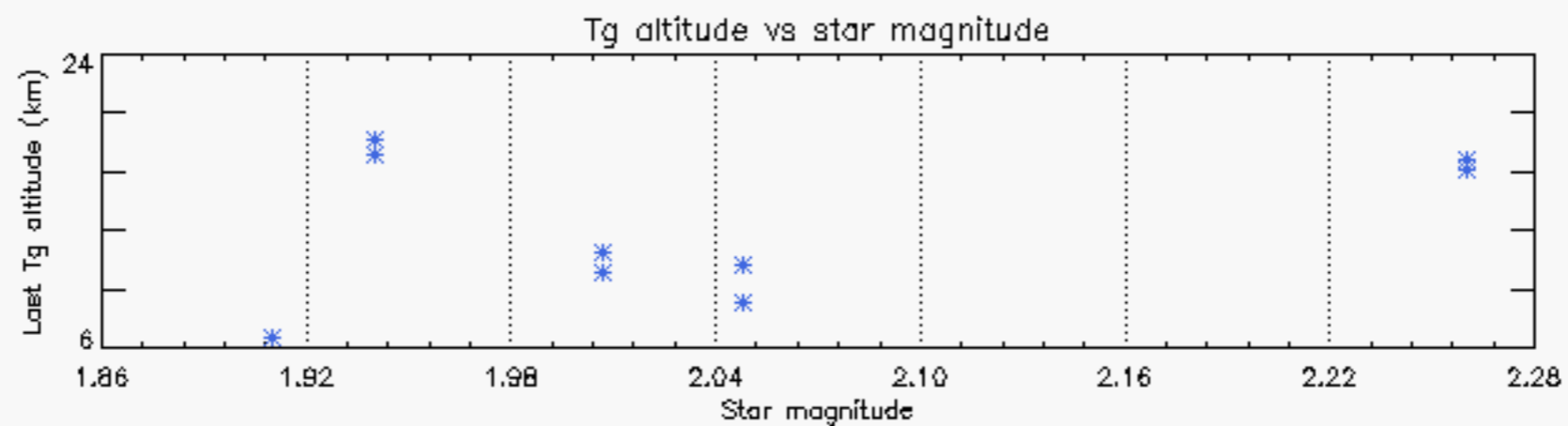
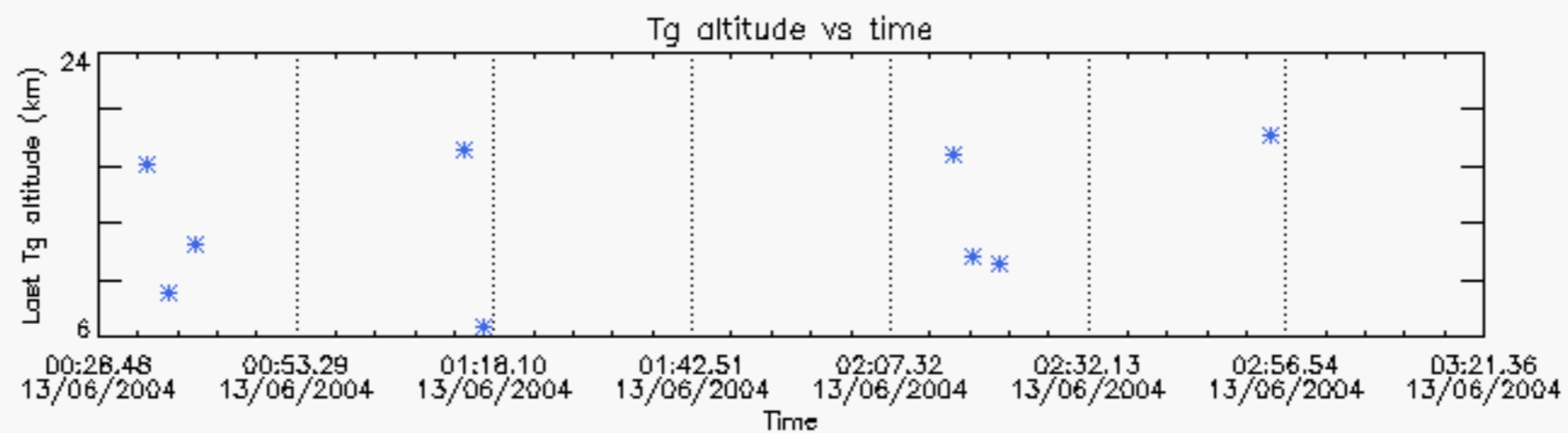
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 22; 83.3; 01-JUN-2004 07:24:27; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;11784
 23; 196.7; 01-JUN-2004 07:26:20; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;11784
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 26; 831.3; 01-JUN-2004 07:36:55; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11784
 27; 937.5; 01-JUN-2004 07:38:41; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;11784
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 31; 1373.5; 01-JUN-2004 07:45:57; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;11784
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 33; 1590.3; 01-JUN-2004 07:49:34; Bright; 47.5; 86; 35Eta Oph ; 2.43; 10200;occ; 95; 0;11784
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 21; 197.4; 01-JUN-2004 09:06:57; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;11785
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 27; 1146.7; 01-JUN-2004 09:22:46; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;11785
 28; 1252.1; 01-JUN-2004 09:24:32; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;11785
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 13; -2271.4; 01-JUN-2004 10:06:24; Bright; 83.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 166; 0;11785
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 23; -111.6; 01-JUN-2004 10:42:24; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;11785
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 25; 198.2; 01-JUN-2004 10:47:34; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;11786
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 27; 707.4; 01-JUN-2004 10:56:03; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;11786
 28; 830.9; 01-JUN-2004 10:58:06; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;11786
 29; 938.1; 01-JUN-2004 10:59:53; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;11786
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 24; -111.0; 01-JUN-2004 12:23:00; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;11786
 25; 85.5; 01-JUN-2004 12:26:17; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;11787
 26; 198.9; 01-JUN-2004 12:28:10; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;11787
 27; 494.1; 01-JUN-2004 12:33:05; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11787
 28; 707.7; 01-JUN-2004 12:36:39; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;11787
 29; 831.2; 01-JUN-2004 12:38:42; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11787
 30; 938.2; 01-JUN-2004 12:40:29; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;11787
 31; 1039.4; 01-JUN-2004 12:42:11; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;11787

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26; 3349.1; 30-JUN-2004 01:24:57; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;12195
27; 3788.4; 30-JUN-2004 01:32:17; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;12195
28; 3889.9; 30-JUN-2004 01:33:58; Bright; 49.0; 68; 18Alp Cas ; 2.22; 4500;occ; 98; 0;12195
29; 4062.1; 30-JUN-2004 01:36:50; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;12195
30; 4164.1; 30-JUN-2004 01:38:32; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;12195
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