

COVID-19 situation report for WHO Africa Region
29/05/2020

Produced by the TIBA COVID-19 Pandemic Response Unit



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Section 1: Overview of WHO Africa Region 28/05/2020

Overview



Total Reported Cases
87487

Total Reported Deaths
2349

Methods

We compare the size and rate of increase of the COVID-19 epidemic across the countries included in WHO Africa Region.

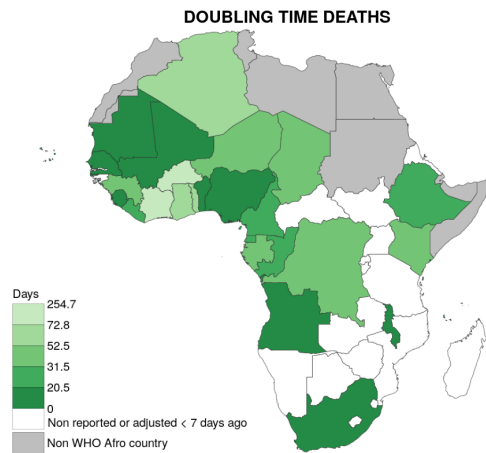
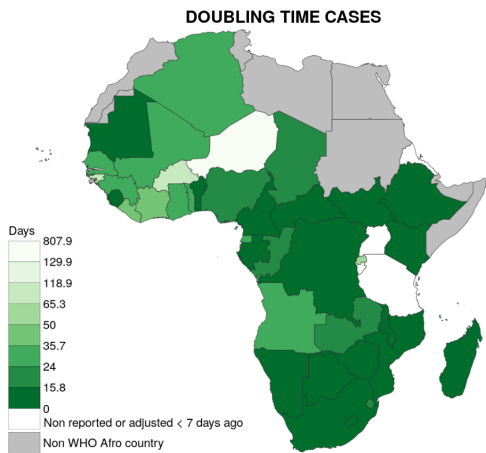
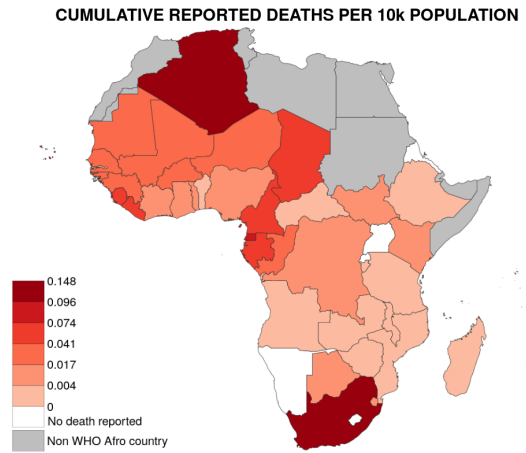
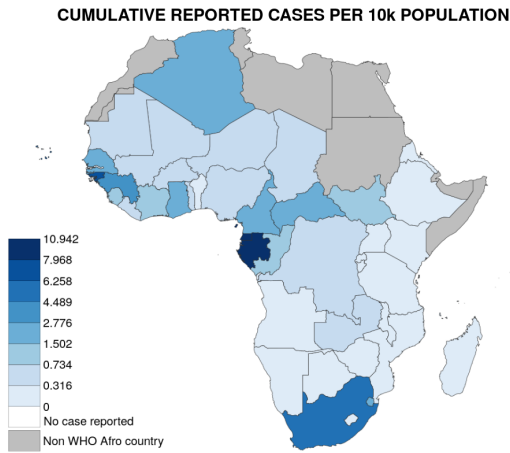
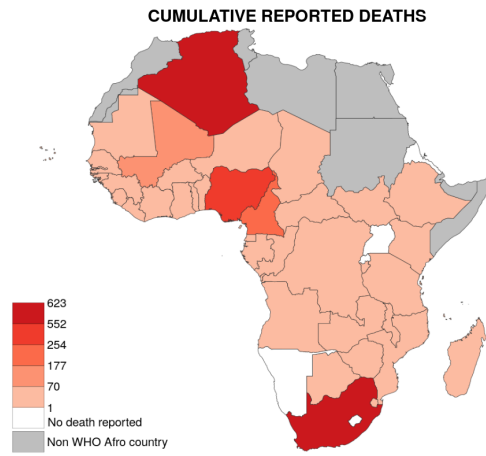
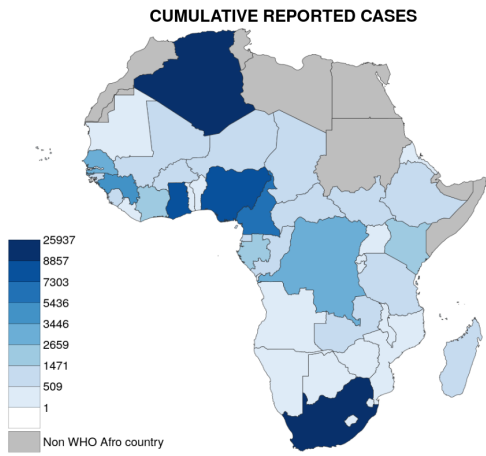
The maps below summarise the in-country situations:

- Top row: cumulative reported cases (left) and deaths (right).
- Middle row: cumulative reported cases (left) and deaths (right) per 10,000 population on a log10 scale.
- Bottom row: overview of doubling time of cumulative reported cases (left) and deaths (right). Doubling times are estimated over a 7 day period up to 28/05/2020. Doubling time is an easily understood measure of how fast the epidemic is growing when the case reproduction number, R , is greater than 1. The lower the doubling time the faster the national COVID-19 epidemic is growing. For individual country plots we use a related metric, the relative increase in the size of the national epidemic over the past 7 days. A relative increase of 2 corresponds to a doubling time of exactly 7 days.

Caveats:

- Colour scales are non-linear and are re-calibrated every week.
- WHO African region countries shaded in white either have no reported deaths/cases or, for doubling time calculations, have reduced their cumulative total cases/deaths in the last 7 days due to retrospective changes in reporting procedures.

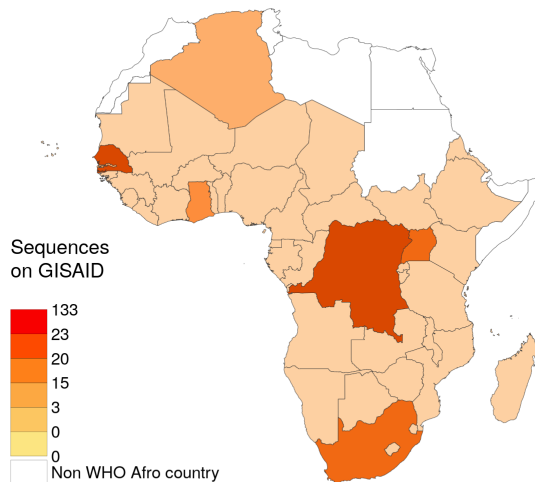
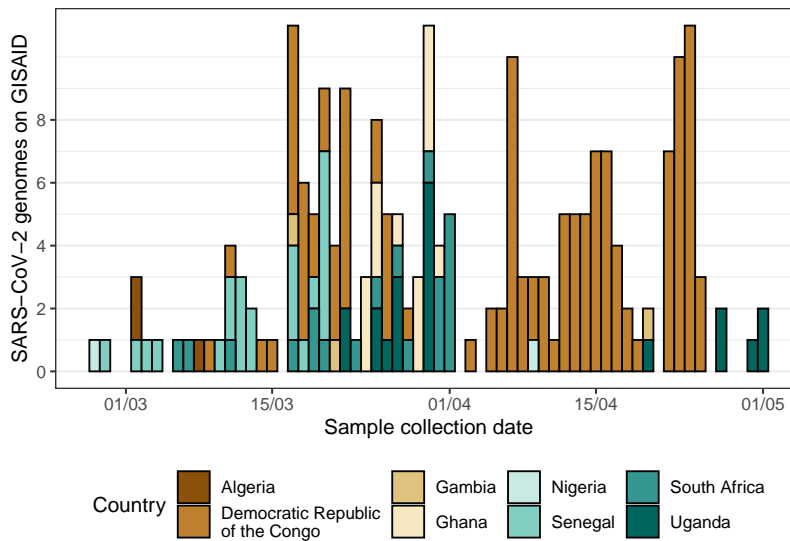
Summary maps



Sequencing

As of 28/05/2020, SARS-CoV-2 genomes have been collected and sequenced from 219 patients across Africa and submitted to GISAID. Each genome's country of origin and collection date is summarised below:

- Top graph: SARS-CoV-2 genomes available on GISAID by collection date. Six genomes from the Democratic Republic of the Congo with unknown collection dates are removed.
- Bottom map: SARS-CoV-2 genomes available on GISAID by country.



Section 2: Individual country situations

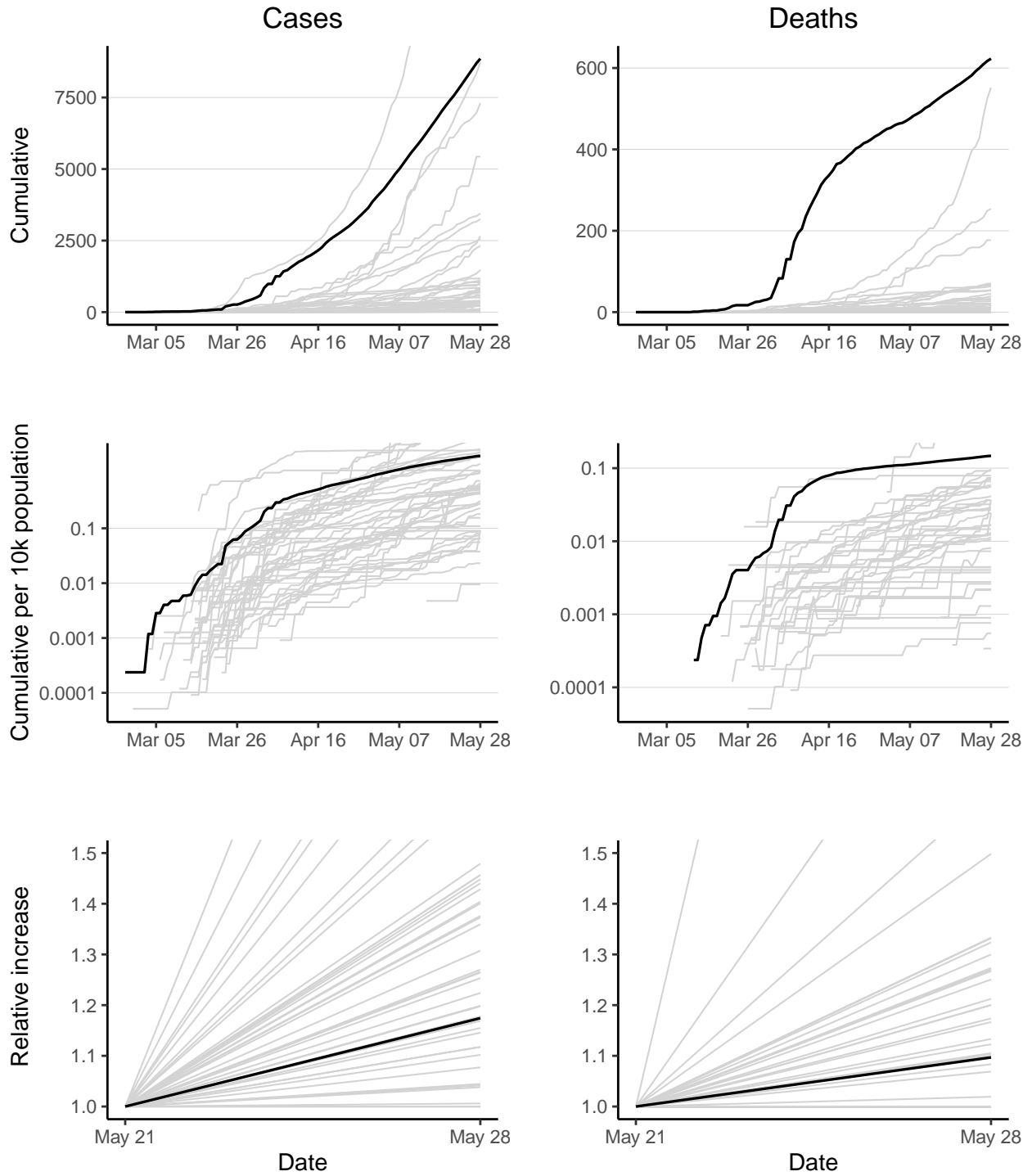
As of 28/05/2020, each panel below shows for each country:

- Top row: cumulative reported cases (left) and deaths (right).
- Middle row: cumulative reported cases (left) and deaths (right) per 10,000 population on a log10 scale.
- Bottom row: relative increase in cumulative number of cases (left) and deaths (right) over the 7 day period leading up to 28/05/2020. A relative increase of 2 corresponds to a doubling time of exactly 7 days.

Caveats;

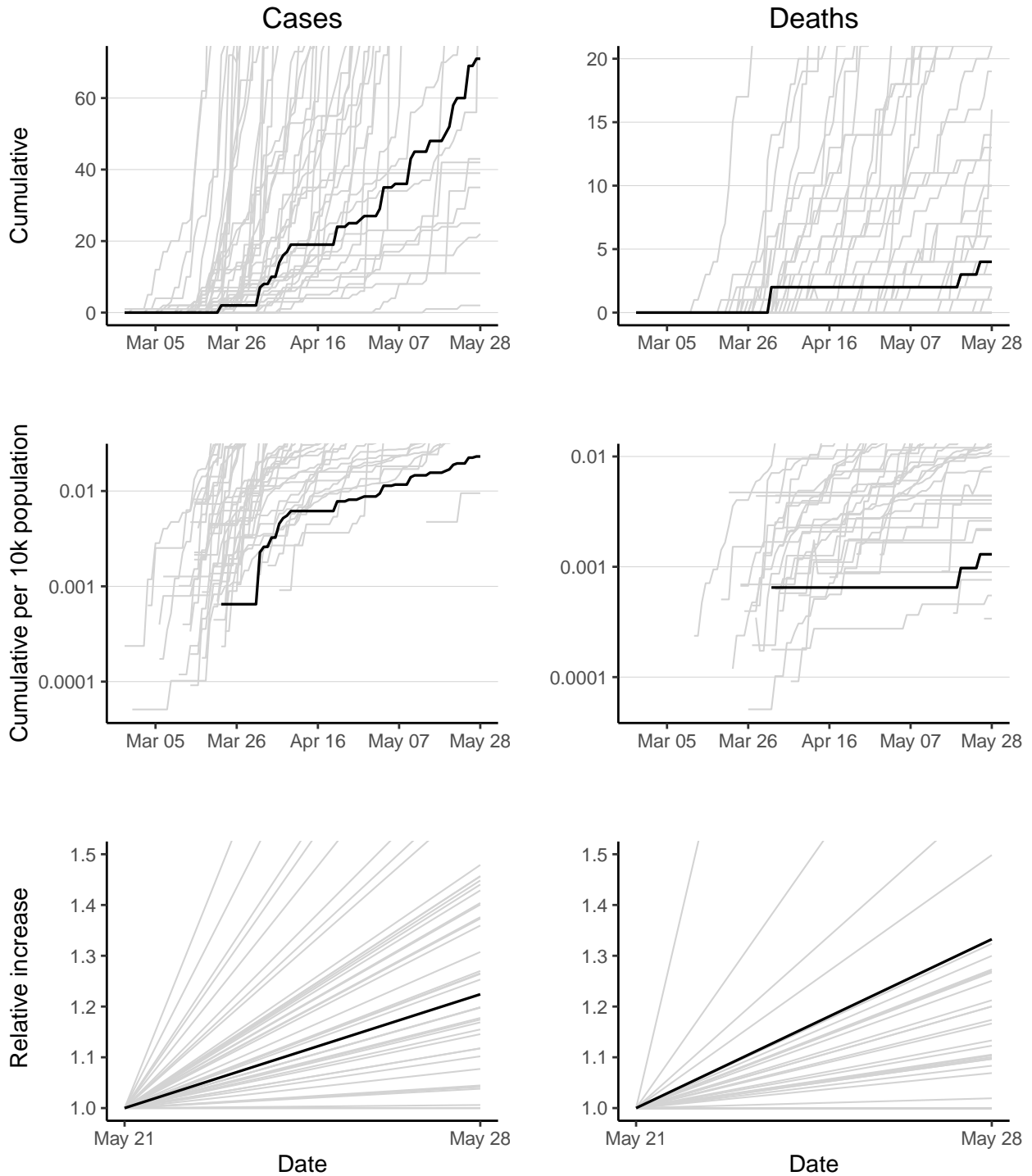
- Retrospective changes in reporting policy may cause cumulative deaths/cases counts to drop as described in WHO Sit Rep Number 105, published on 04/05/2020.

Algeria



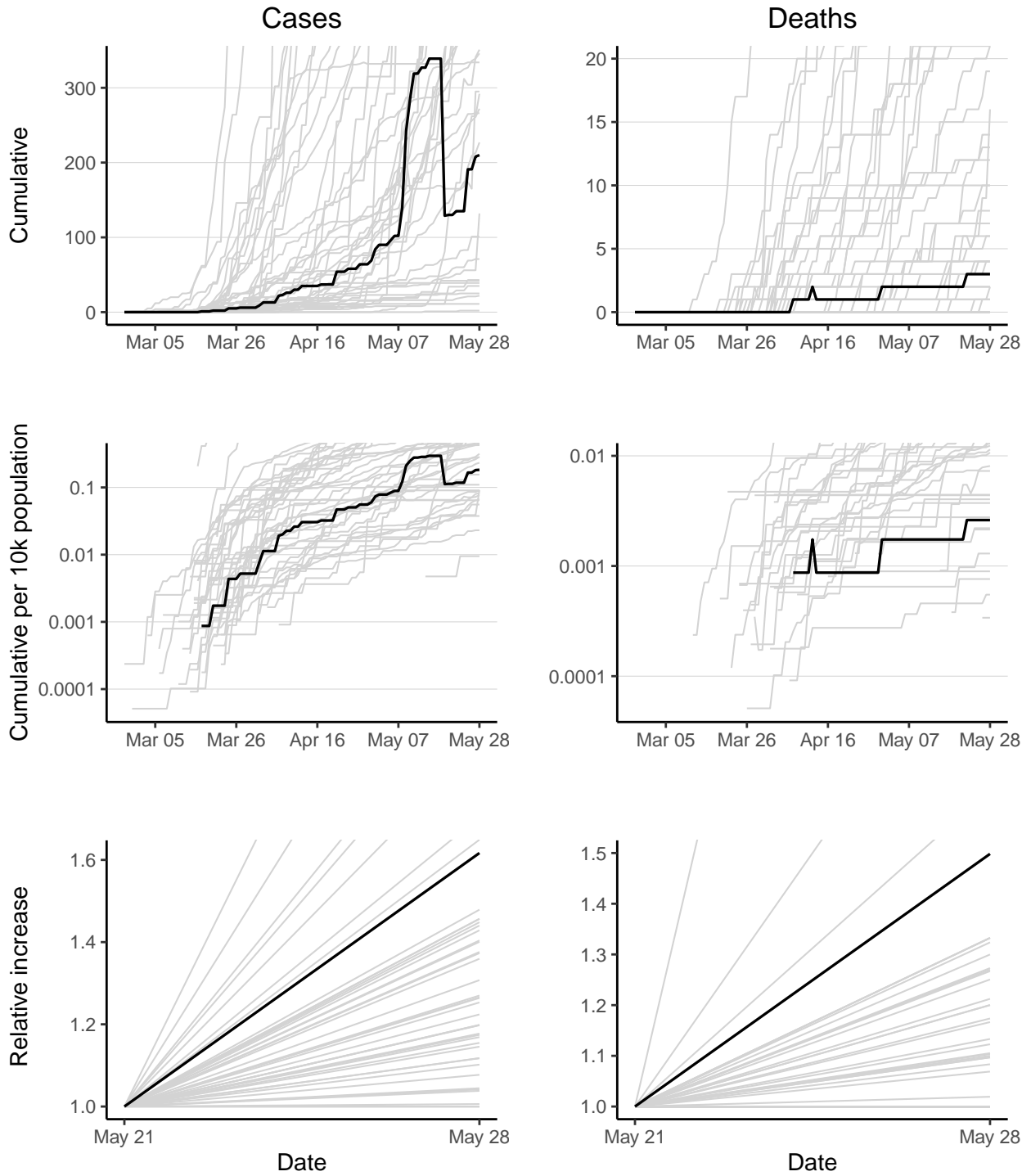
Algeria has 8857 reported case(s) (2nd in the region) and 623 reported death(s) (1st). Cumulative counts per 10,000 population for reported cases and deaths are 2.1 (11th) and 0.15 (2nd) respectively. Doubling times over the last 7 days for cases and deaths are 30.2 days (30th) and 52.5 days (24th).

Angola



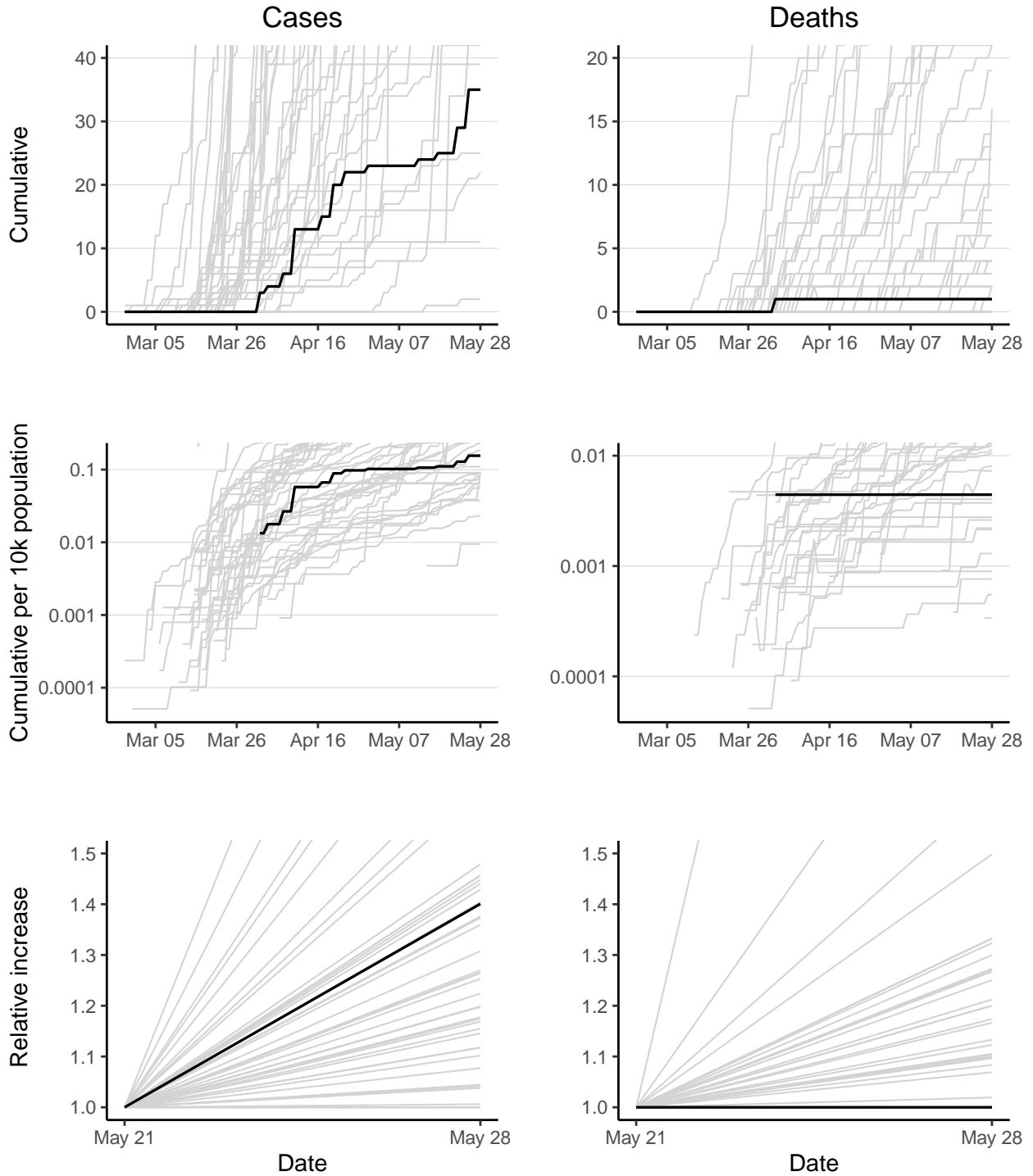
Angola has 71 reported case(s) (39th in the region) and 4 reported death(s) (29th). Cumulative counts per 10,000 population for reported cases and deaths are 0.023 (46th) and 0.0013 (37th) respectively. Doubling times over the last 7 days for cases and deaths are 24 days (25th) and 16.9 days (5th).

Benin



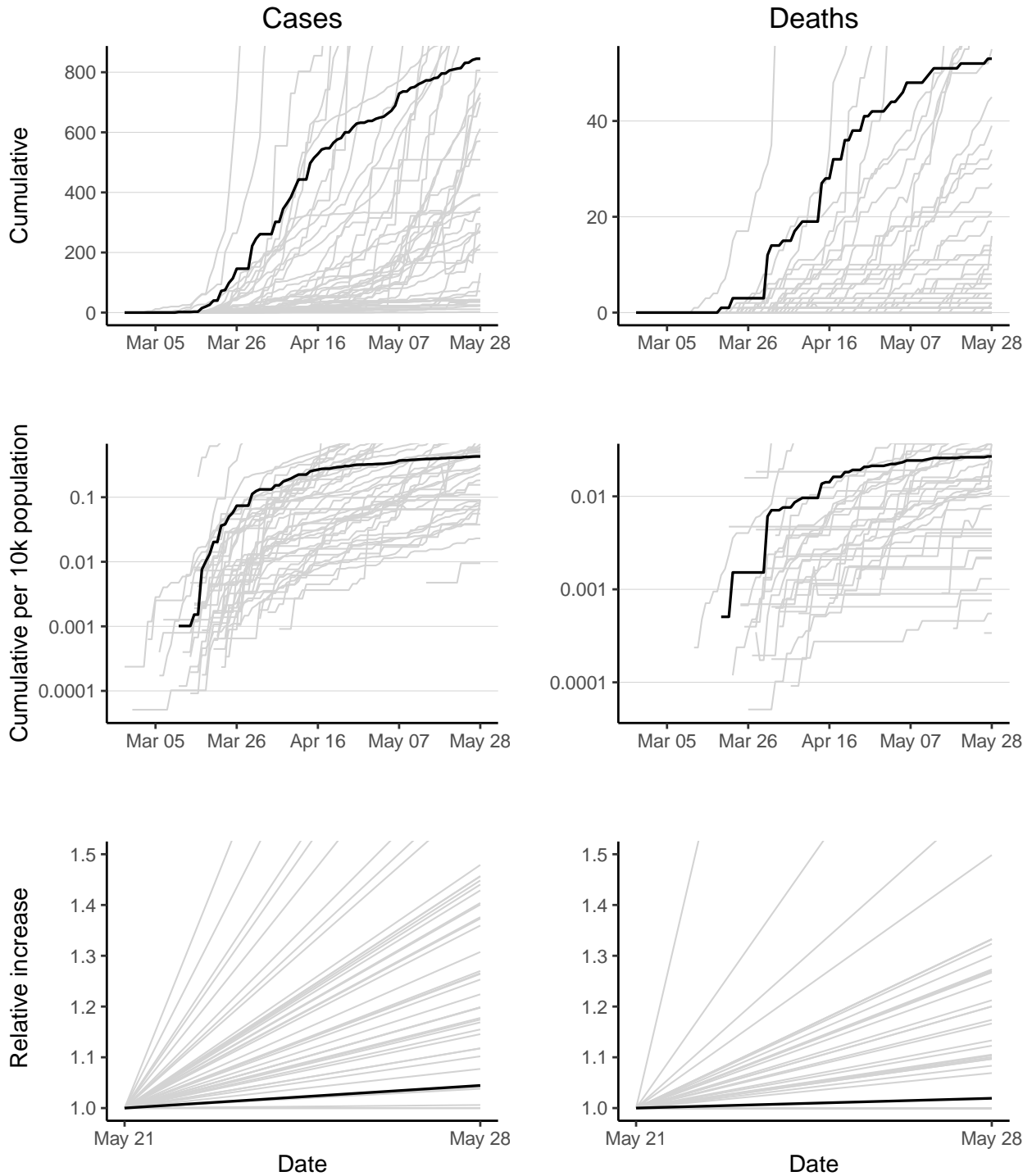
Benin has 210 reported case(s) (36th in the region) and 3 reported death(s) (33rd). Cumulative counts per 10,000 population for reported cases and deaths are 0.18 (34th) and 0.0026 (34th) respectively. Doubling times over the last 7 days for cases and deaths are 10.1 days (8th) and 12 days (4th).

Botswana



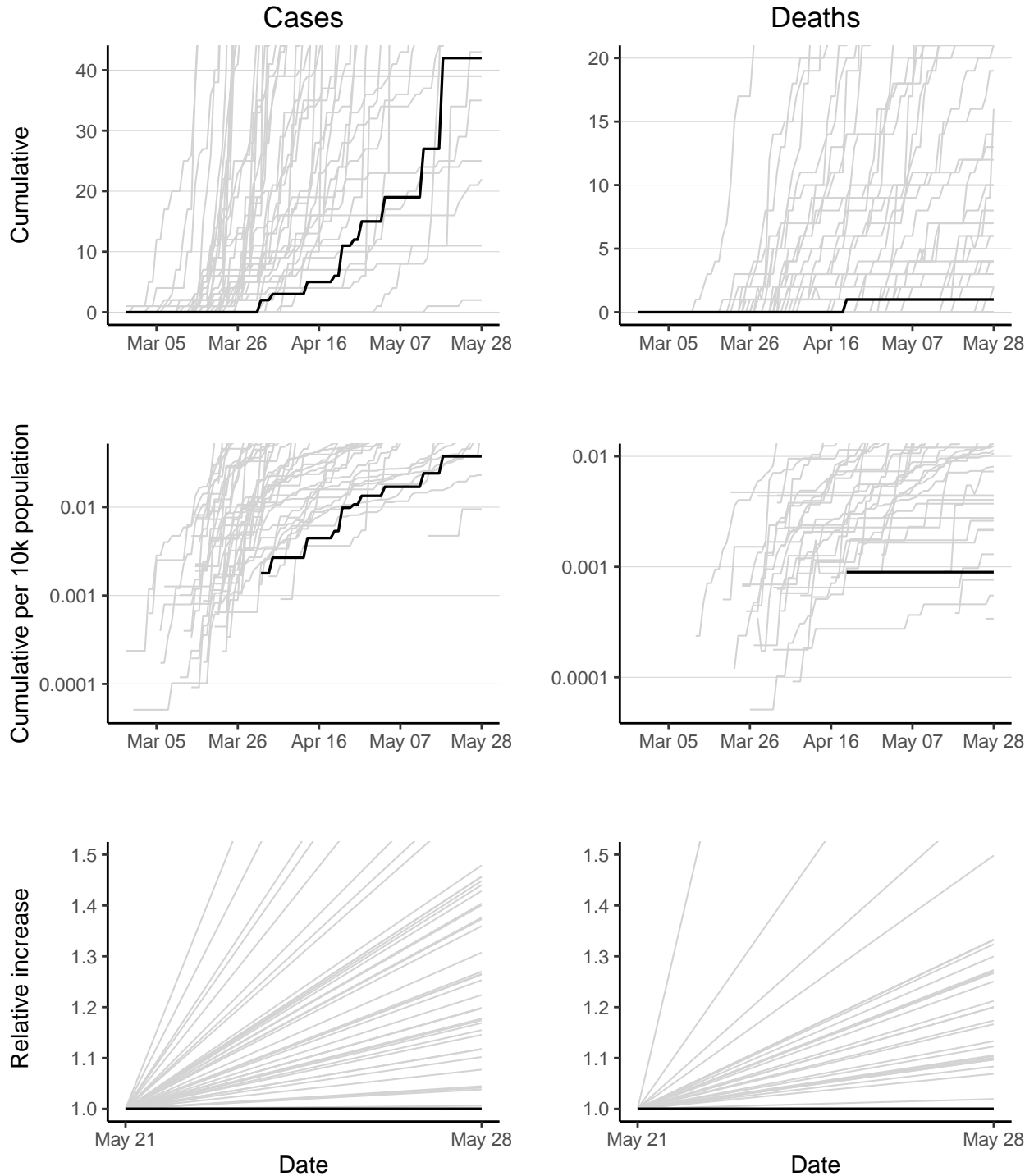
Botswana has 35 reported case(s) (43rd in the region) and 1 reported death(s) (37th). Cumulative counts per 10,000 population for reported cases and deaths are 0.16 (35th) and 0.0044 (29th) respectively. The doubling time over the last 7 days for cases is 14.4 days (16th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Burkina Faso



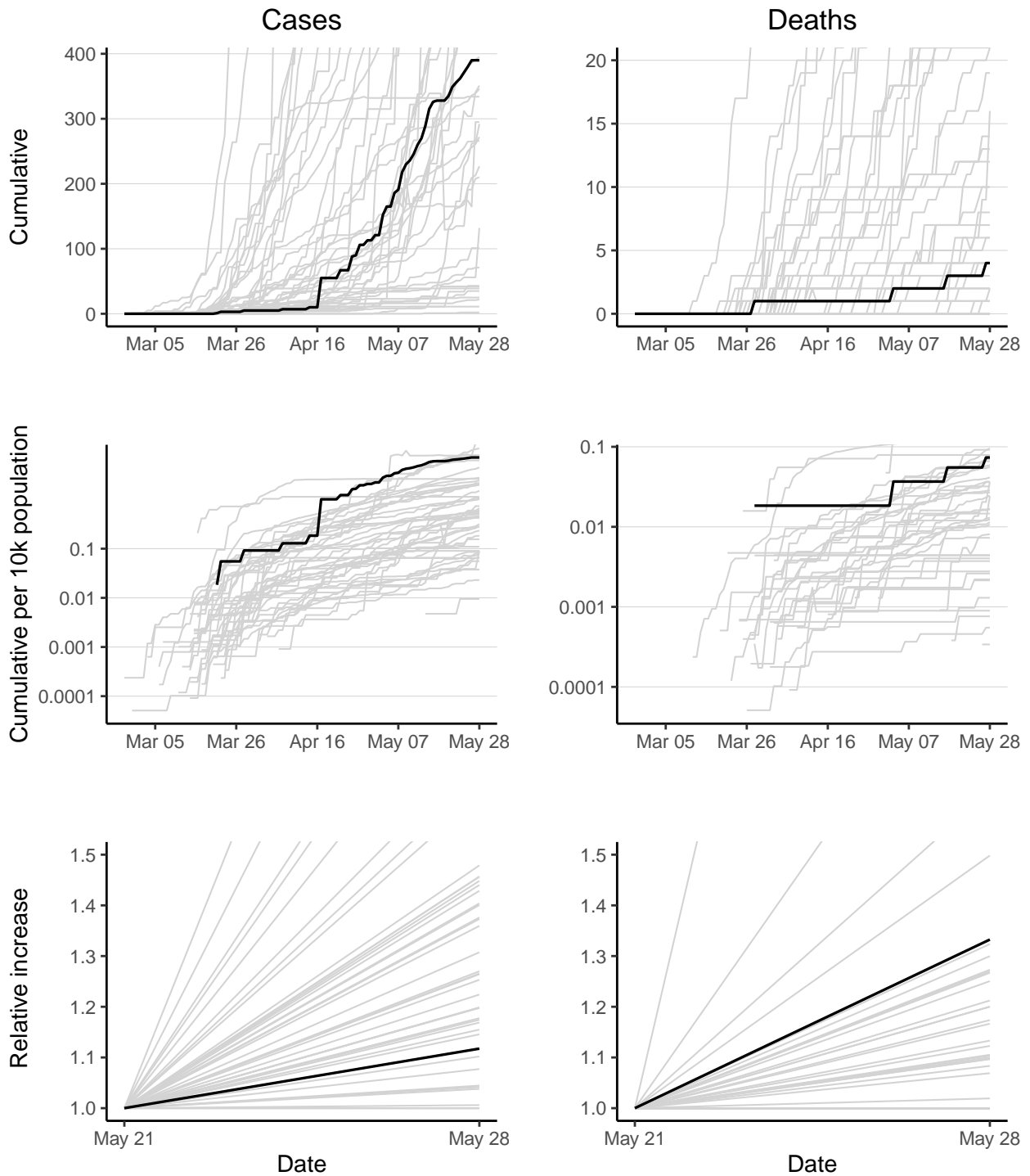
Burkina Faso has 845 reported case(s) (17th in the region) and 53 reported death(s) (10th). Cumulative counts per 10,000 population for reported cases and deaths are 0.43 (28th) and 0.027 (17th) respectively. Doubling times over the last 7 days for cases and deaths are 111.4 days (38th) and 254.7 days (28th).

Burundi



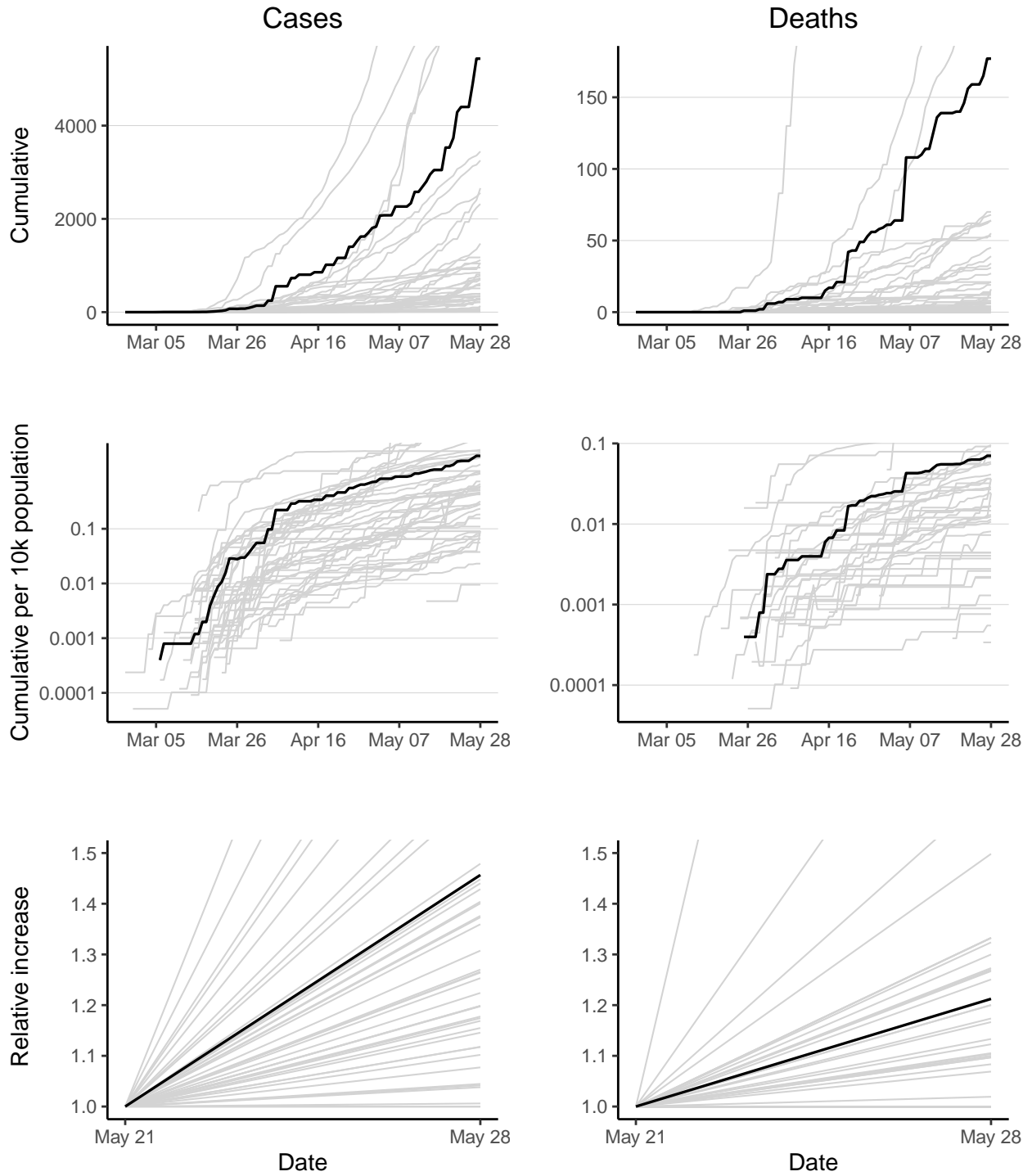
Burundi has 42 reported case(s) (41st in the region) and 1 reported death(s) (38th). Cumulative counts per 10,000 population for reported cases and deaths are 0.038 (45th) and 0.00089 (38th) respectively. The doubling time of reported cases cannot be calculated as no new cases have been reported in last 7 days. The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Cabo Verde



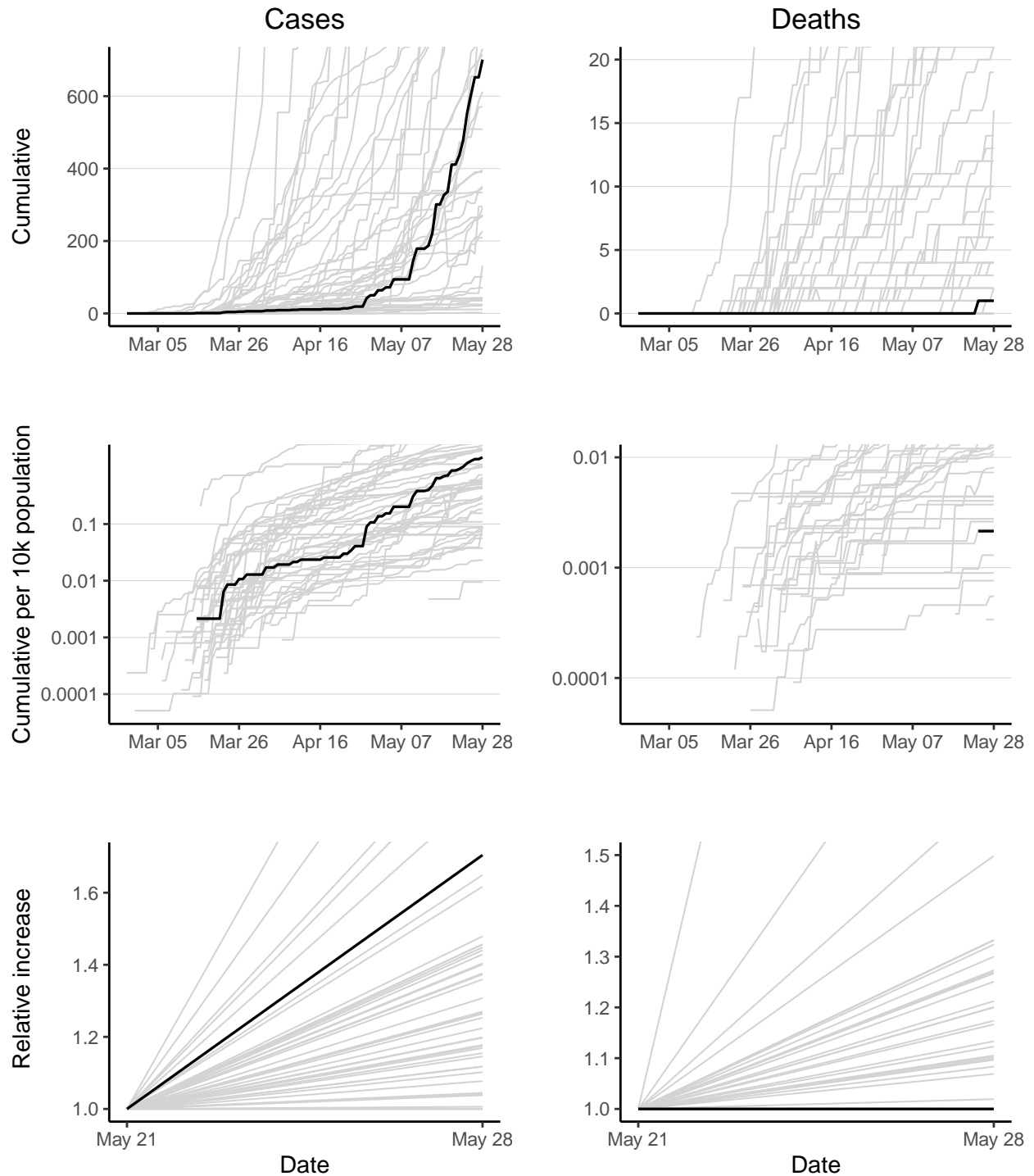
Cabo Verde has 390 reported case(s) (27th in the region) and 4 reported death(s) (30th). Cumulative counts per 10,000 population for reported cases and deaths are 7.2 (4th) and 0.074 (6th) respectively. Doubling times over the last 7 days for cases and deaths are 43.7 days (35th) and 16.9 days (6th).

Cameroon



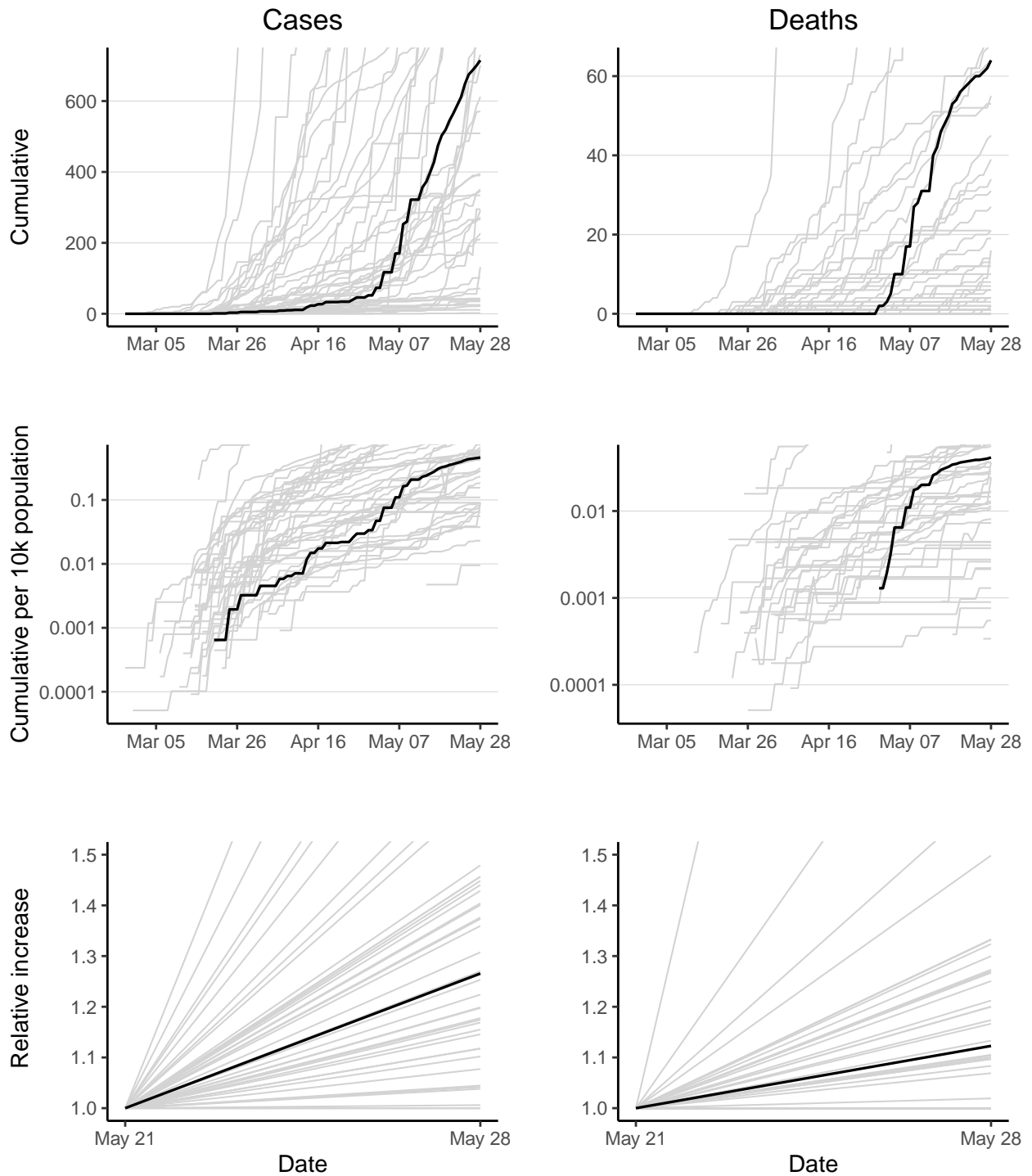
Cameroon has 5436 reported case(s) (5th in the region) and 177 reported death(s) (4th). Cumulative counts per 10,000 population for reported cases and deaths are 2.2 (10th) and 0.07 (7th) respectively. Doubling times over the last 7 days for cases and deaths are 12.9 days (10th) and 25.2 days (14th).

Central African Republic



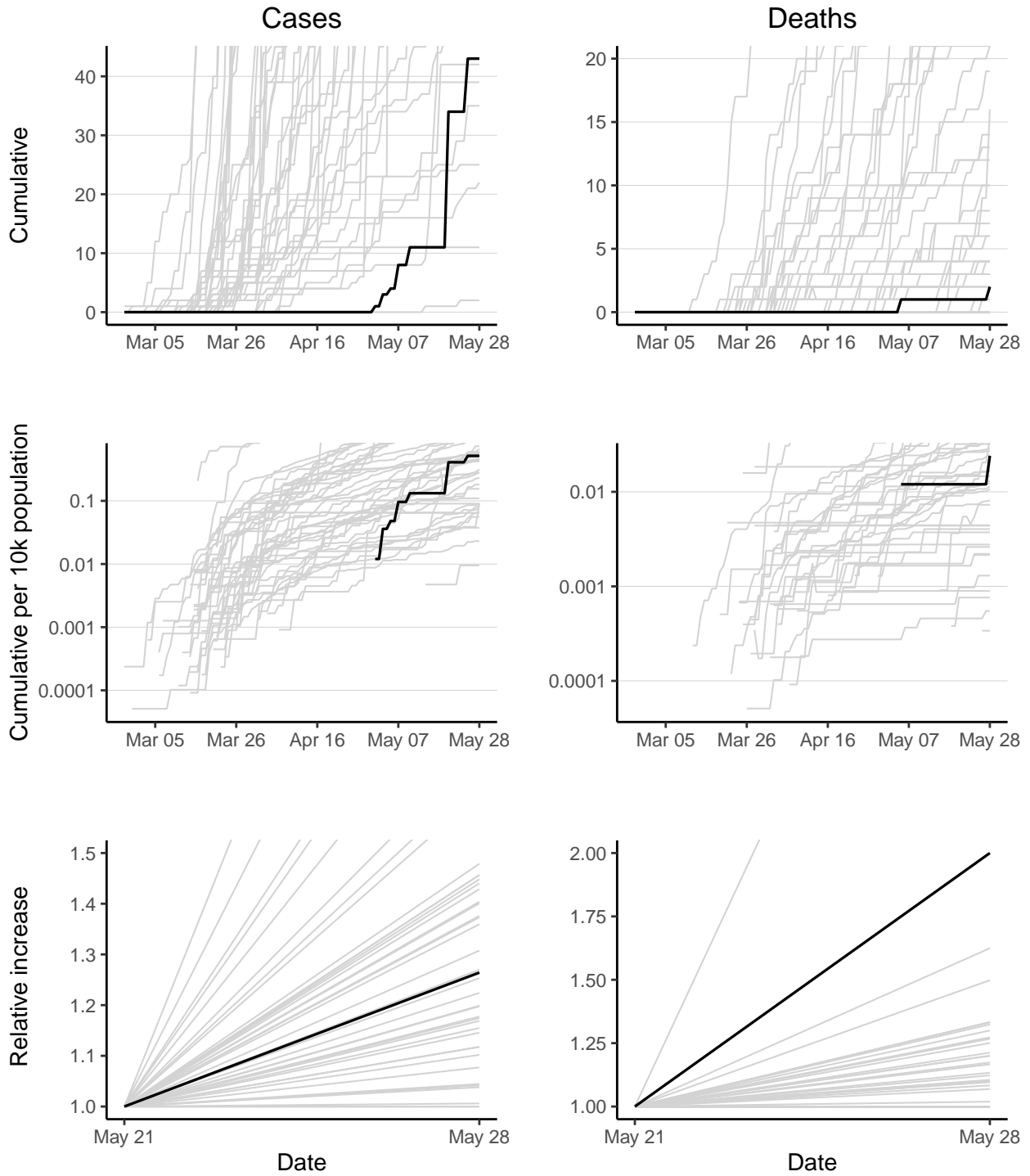
Central African Republic has 701 reported case(s) (22nd in the region) and 1 reported death(s) (39th). Cumulative counts per 10,000 population for reported cases and deaths are 1.5 (14th) and 0.0021 (36th) respectively. The doubling time over the last 7 days for cases is 9.1 days (6th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Chad



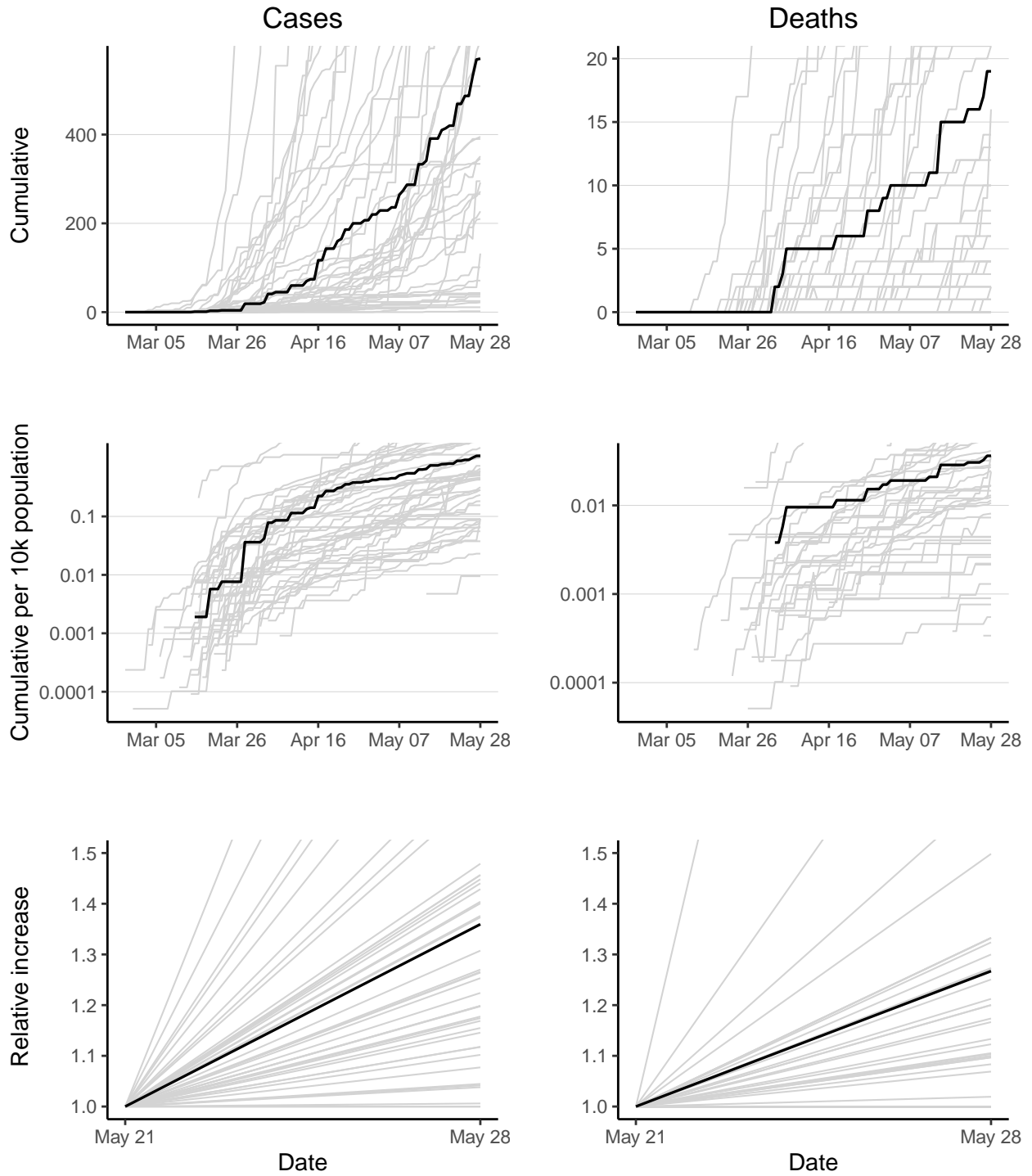
Chad has 715 reported case(s) (21st in the region) and 64 reported death(s) (7th). Cumulative counts per 10,000 population for reported cases and deaths are 0.46 (26th) and 0.041 (11th) respectively. Doubling times over the last 7 days for cases and deaths are 20.6 days (22nd) and 41.9 days (20th).

Comoros



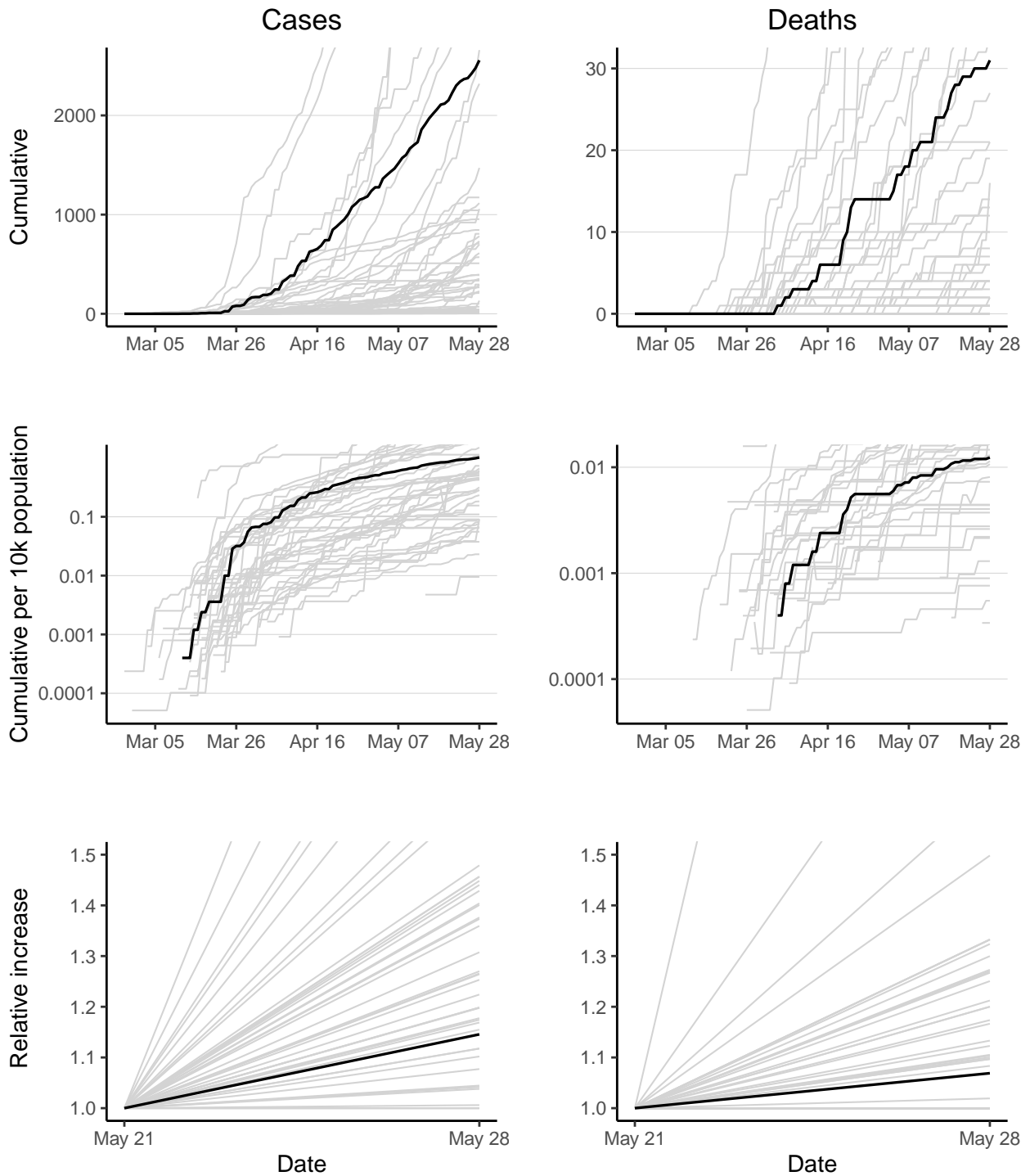
Comoros has 43 reported case(s) (40th in the region) and 2 reported death(s) (34th). Cumulative counts per 10,000 population for reported cases and deaths are 0.52 (24th) and 0.024 (19th) respectively. Doubling times over the last 7 days for cases and deaths are 20.7 days (23rd) and 7 days (2nd).

Congo



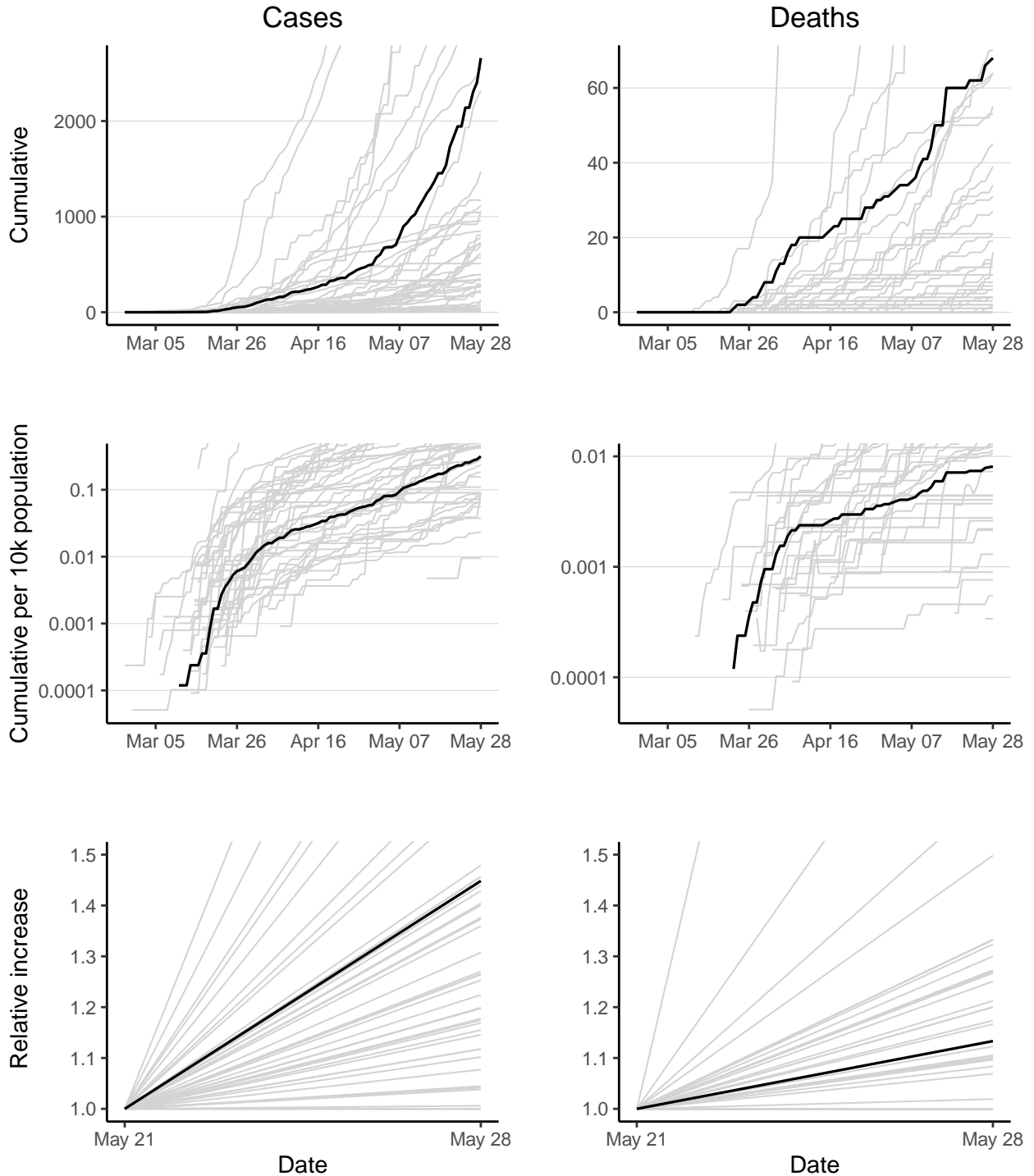
Congo has 571 reported case(s) (24th in the region) and 19 reported death(s) (18th). Cumulative counts per 10,000 population for reported cases and deaths are 1.1 (16th) and 0.036 (14th) respectively. Doubling times over the last 7 days for cases and deaths are 15.8 days (19th) and 20.5 days (12th).

Cote d'Ivoire



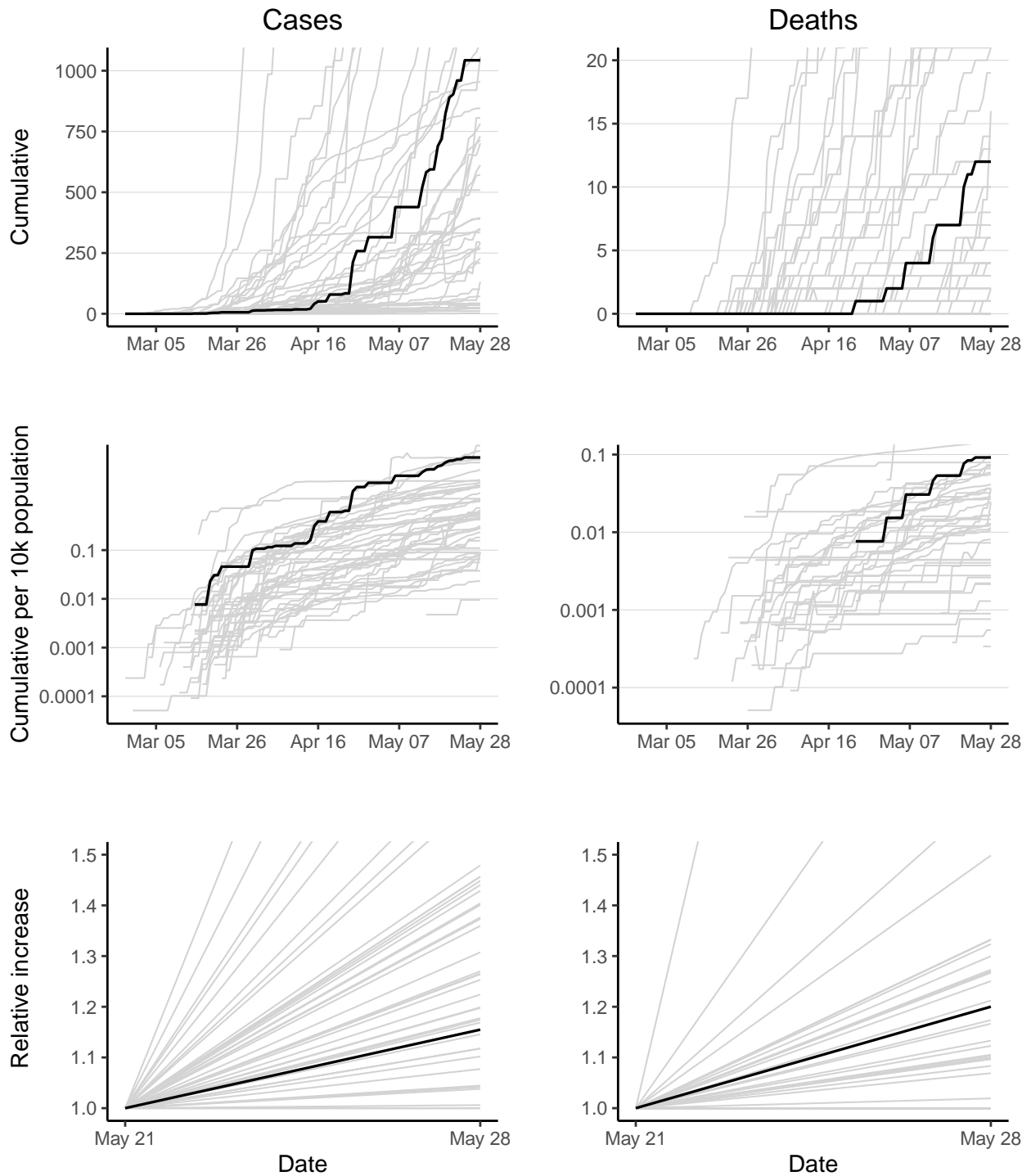
Cote d'Ivoire has 2556 reported case(s) (9th in the region) and 31 reported death(s) (14th). Cumulative counts per 10,000 population for reported cases and deaths are 1 (18th) and 0.012 (24th) respectively. Doubling times over the last 7 days for cases and deaths are 35.7 days (33rd) and 72.8 days (27th).

Democratic Republic of the Congo



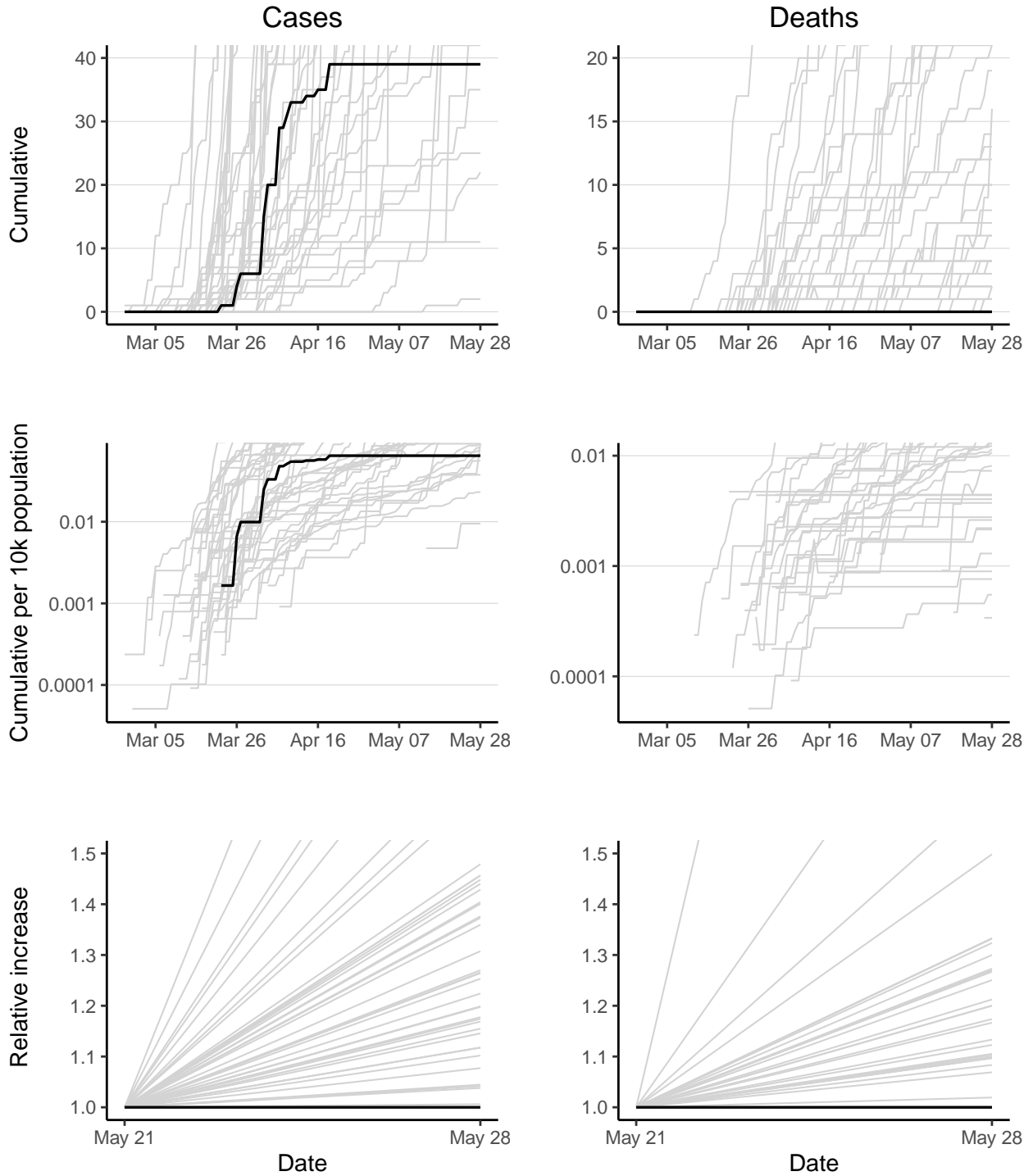
Democratic Republic of the Congo has 2659 reported case(s) (8th in the region) and 68 reported death(s) (6th). Cumulative counts per 10,000 population for reported cases and deaths are 0.32 (30th) and 0.0081 (27th) respectively. Doubling times over the last 7 days for cases and deaths are 13.1 days (12th) and 38.8 days (19th).

Equatorial Guinea



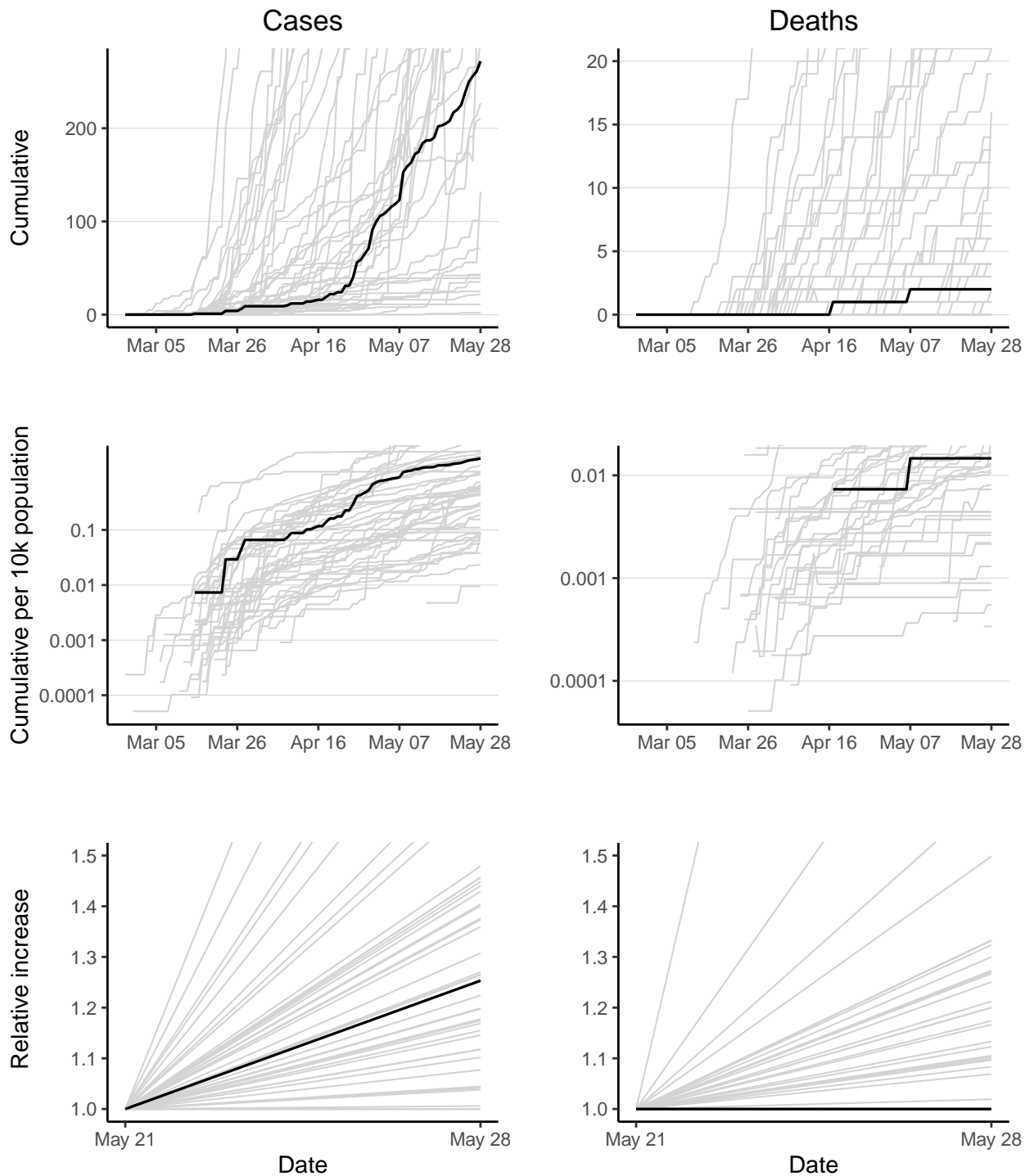
Equatorial Guinea has 1043 reported case(s) (15th in the region) and 12 reported death(s) (22nd). Cumulative counts per 10,000 population for reported cases and deaths are 8 (3rd) and 0.092 (4th) respectively. Doubling times over the last 7 days for cases and deaths are 33.7 days (32nd) and 26.6 days (15th).

Eritrea



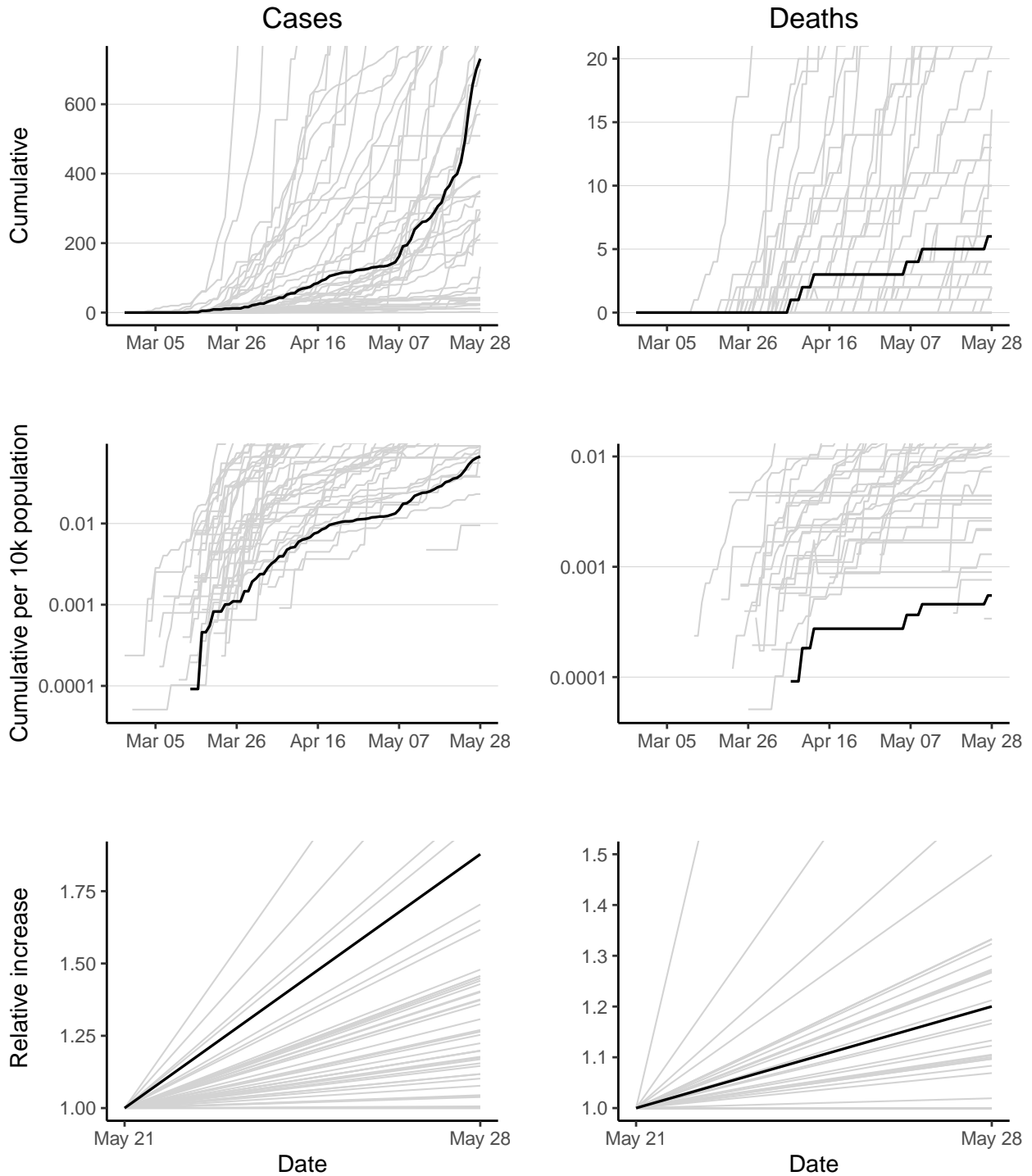
Eritrea has 39 reported case(s) (42nd in the region) and 0 reported death(s) (42nd). Cumulative counts per 10,000 population for reported cases and deaths are 0.064 (43rd) and 0 (42nd) respectively. The doubling time of reported cases cannot be calculated as no new cases have been reported in last 7 days. The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Eswatini



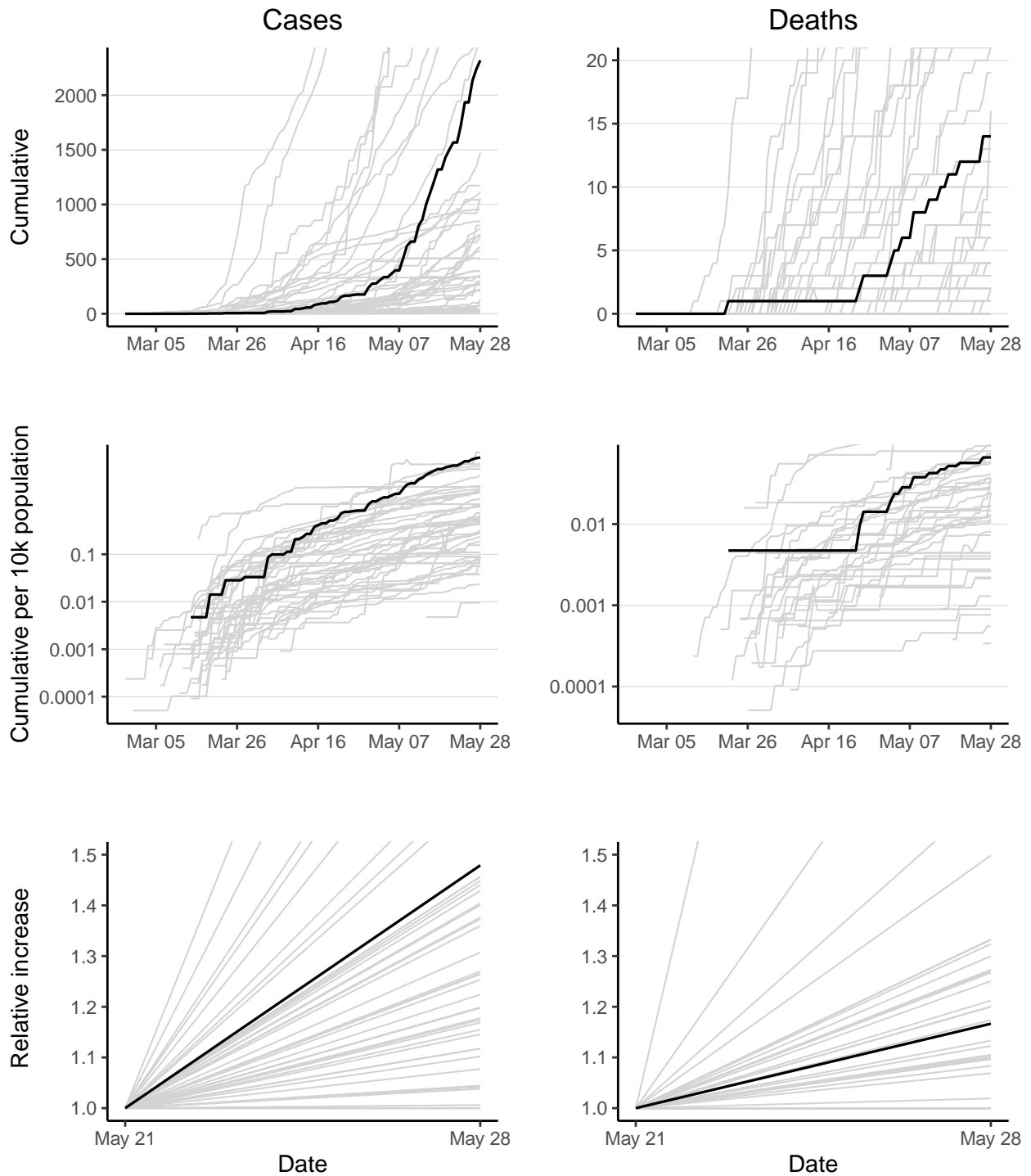
Eswatini has 272 reported case(s) (33rd in the region) and 2 reported death(s) (35th). Cumulative counts per 10,000 population for reported cases and deaths are 2 (13th) and 0.015 (22nd) respectively. The doubling time over the last 7 days for cases is 21.5 days (24th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Ethiopia



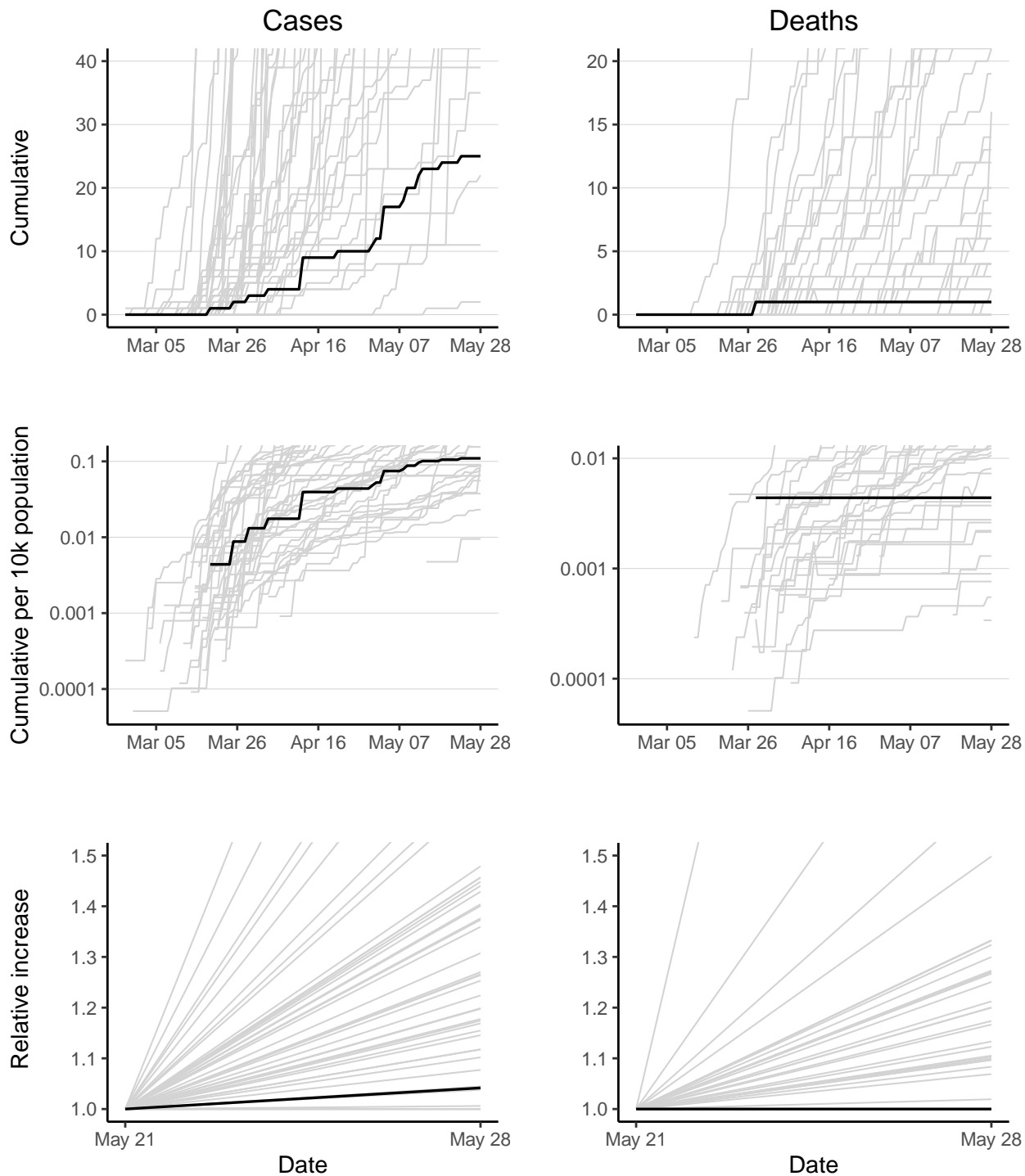
Ethiopia has 731 reported case(s) (20th in the region) and 6 reported death(s) (27th). Cumulative counts per 10,000 population for reported cases and deaths are 0.0067 (42nd) and 0.00055 (40th) respectively. Doubling times over the last 7 days for cases and deaths are 7.7 days (5th) and 26.6 days (16th).

Gabon



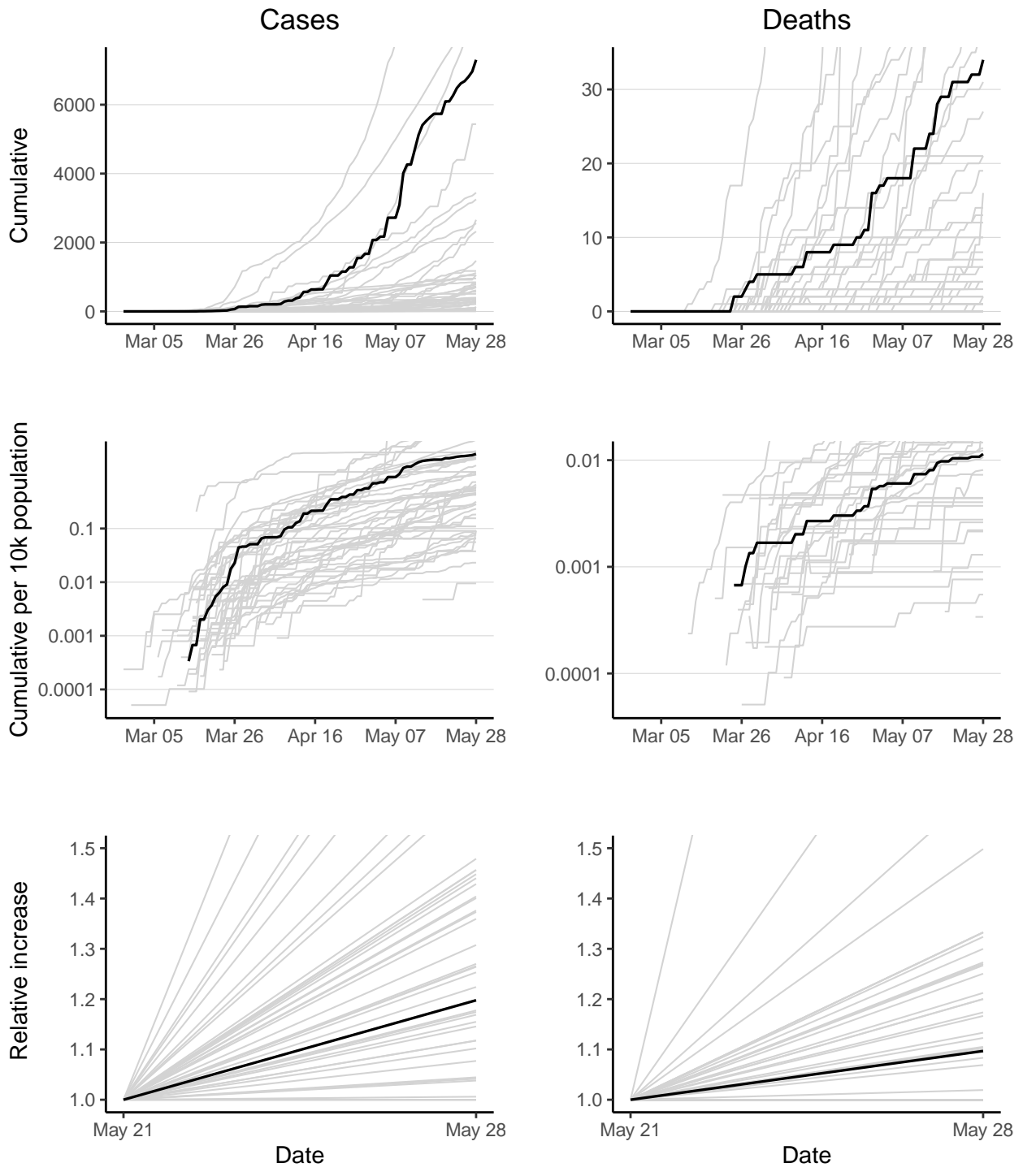
Gabon has 2319 reported case(s) (10th in the region) and 14 reported death(s) (20th). Cumulative counts per 10,000 population for reported cases and deaths are 11 (2nd) and 0.066 (8th) respectively. Doubling times over the last 7 days for cases and deaths are 12.4 days (9th) and 31.5 days (18th).

Gambia



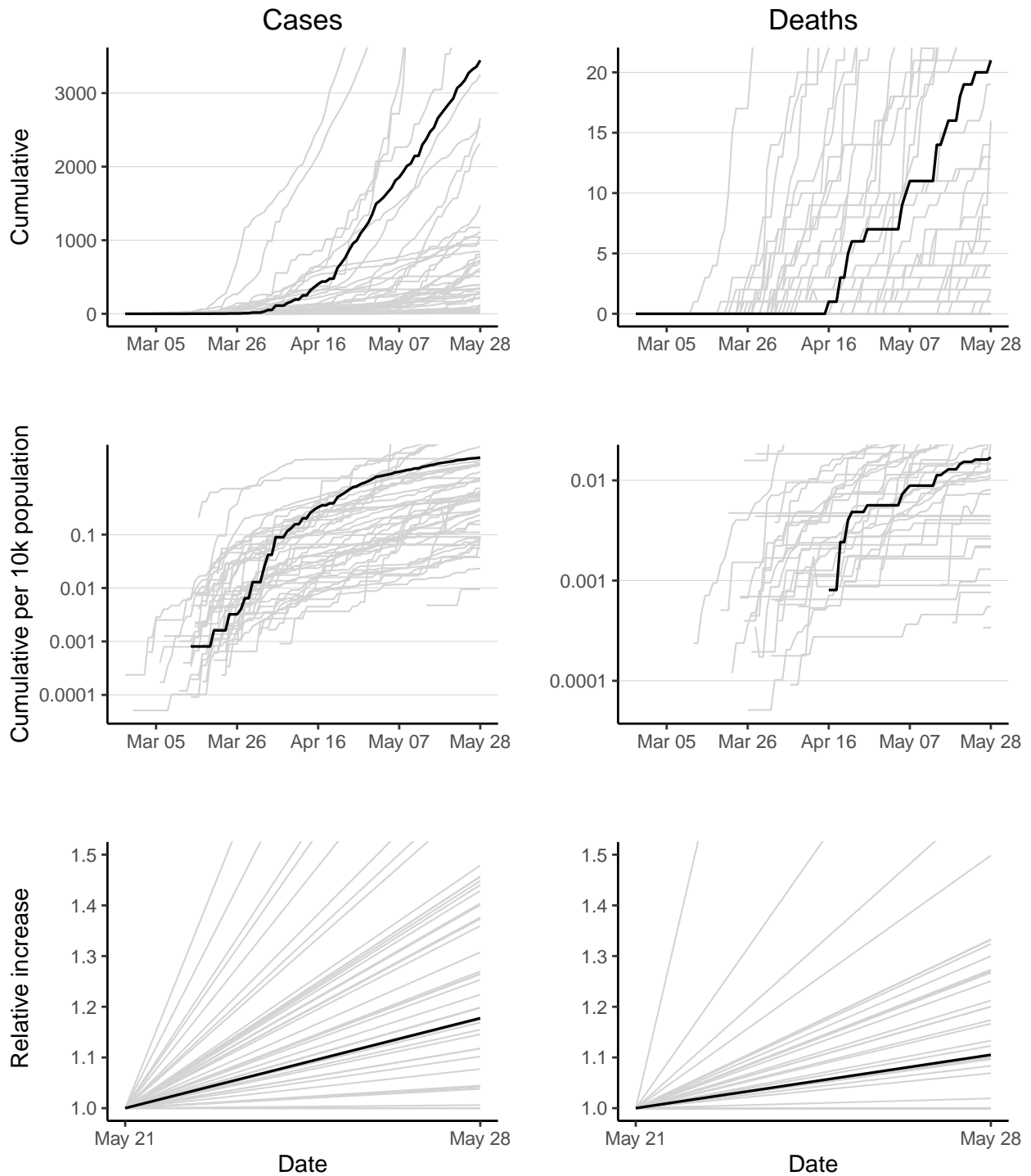
Gambia has 25 reported case(s) (44th in the region) and 1 reported death(s) (40th). Cumulative counts per 10,000 population for reported cases and deaths are 0.11 (36th) and 0.0044 (30th) respectively. The doubling time over the last 7 days for cases is 118.9 days (39th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Ghana



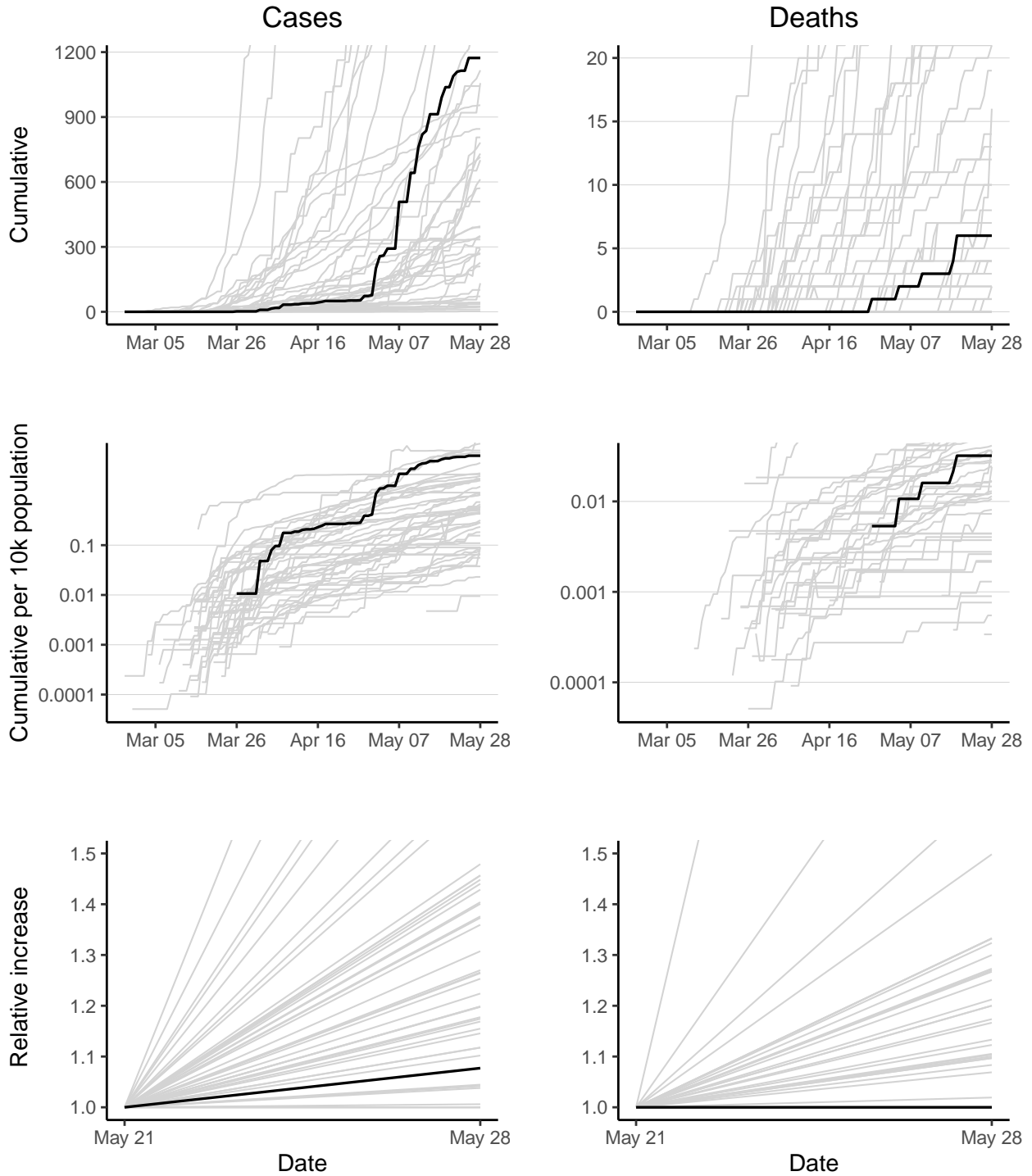
Ghana has 7303 reported case(s) (4th in the region) and 34 reported death(s) (13th). Cumulative counts per 10,000 population for reported cases and deaths are 2.5 (9th) and 0.011 (25th) respectively. Doubling times over the last 7 days for cases and deaths are 26.9 days (28th) and 52.5 days (25th).

Guinea



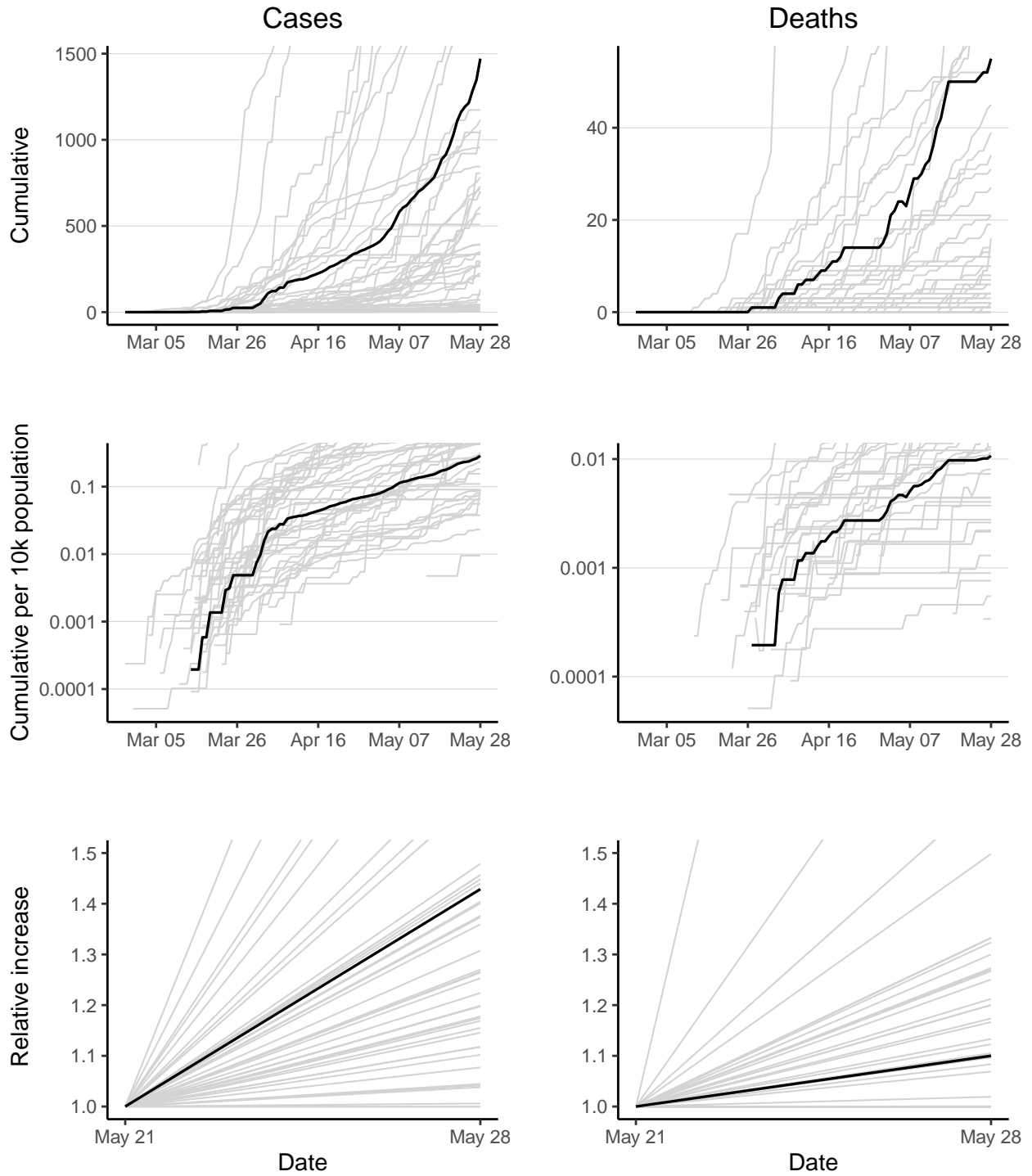
Guinea has 3446 reported case(s) (6th in the region) and 21 reported death(s) (16th). Cumulative counts per 10,000 population for reported cases and deaths are 2.8 (7th) and 0.017 (20th) respectively. Doubling times over the last 7 days for cases and deaths are 29.7 days (29th) and 48.5 days (21st).

Guinea-Bissau



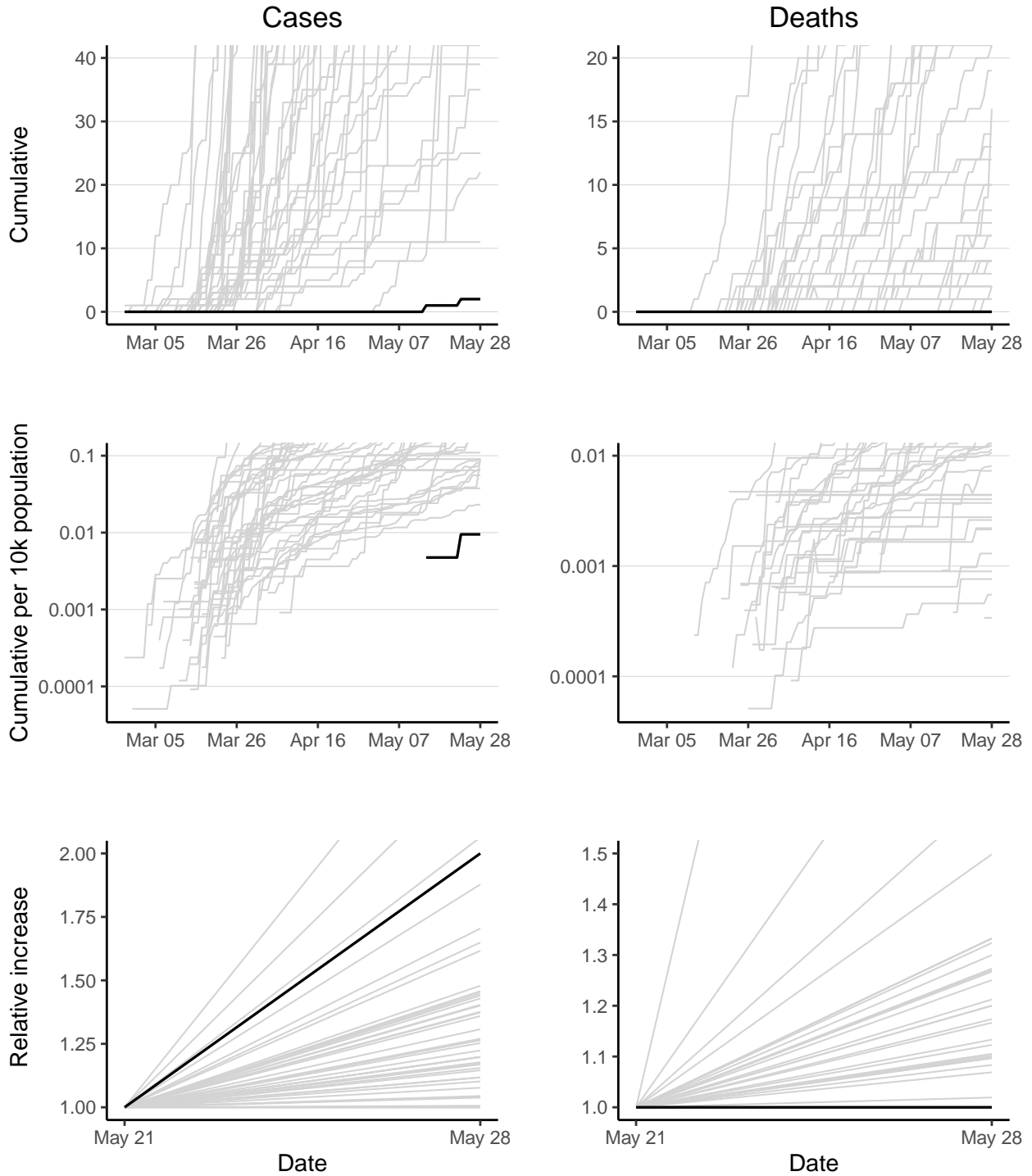
Guinea-Bissau has 1173 reported case(s) (12th in the region) and 6 reported death(s) (28th). Cumulative counts per 10,000 population for reported cases and deaths are 6.3 (5th) and 0.032 (15th) respectively. The doubling time over the last 7 days for cases is 65.3 days (37th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Kenya



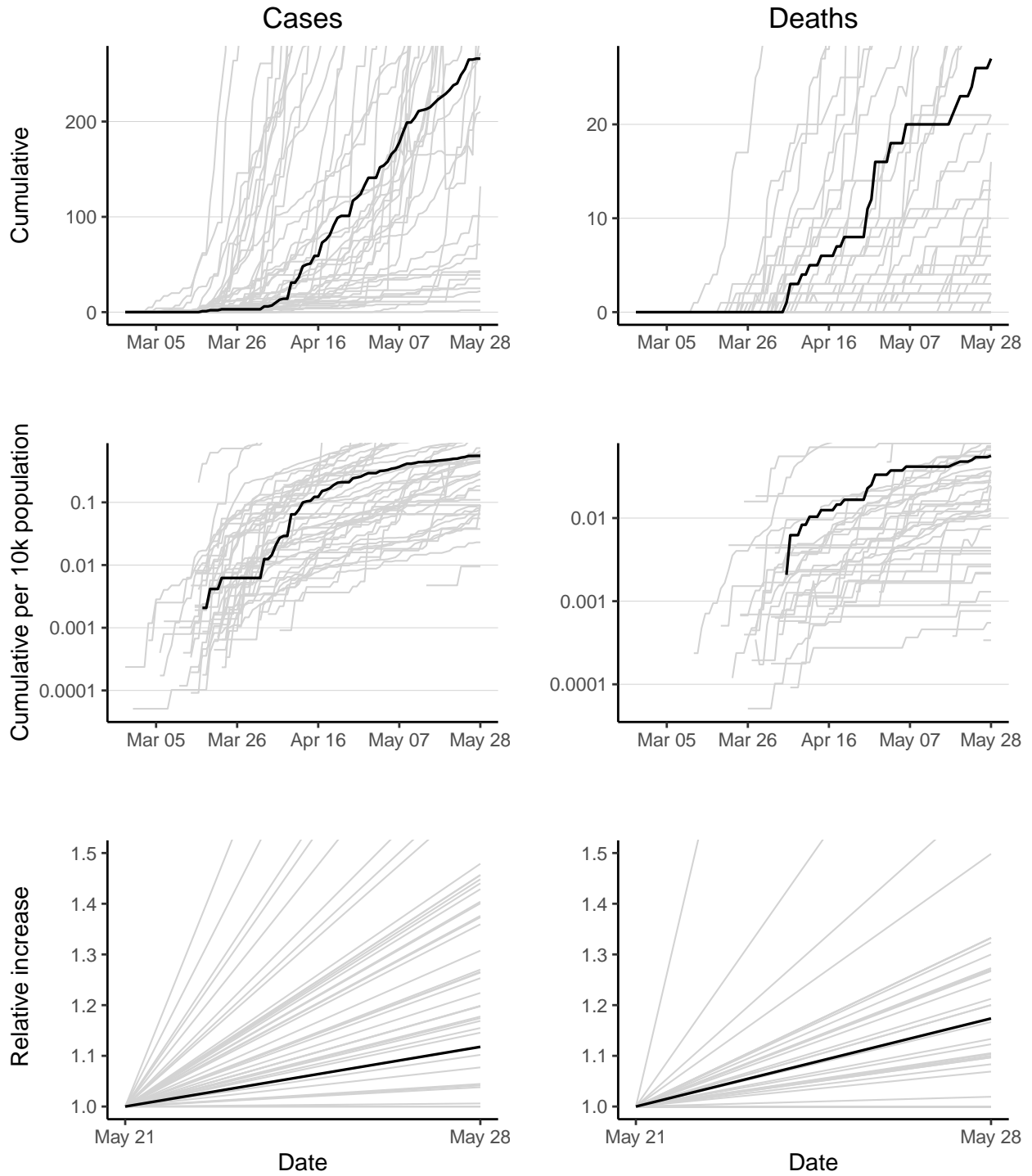
Kenya has 1471 reported case(s) (11th in the region) and 55 reported death(s) (9th). Cumulative counts per 10,000 population for reported cases and deaths are 0.29 (31st) and 0.011 (26th) respectively. Doubling times over the last 7 days for cases and deaths are 13.6 days (14th) and 50.9 days (23rd).

Lesotho



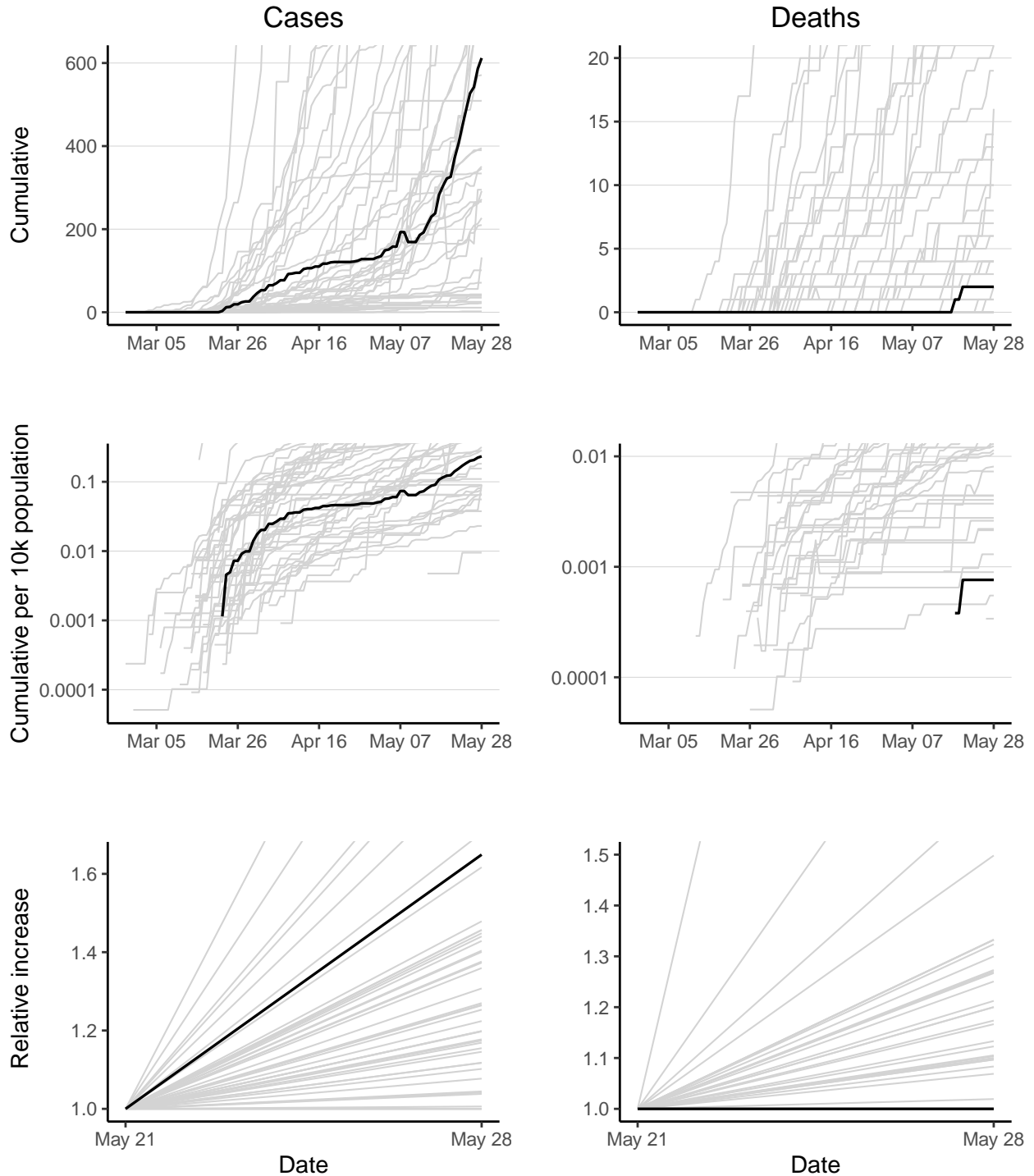
Lesotho has 2 reported case(s) (47th in the region) and 0 reported death(s) (43rd). Cumulative counts per 10,000 population for reported cases and deaths are 0.0095 (47th) and 0 (43rd) respectively. The doubling time over the last 7 days for cases is 7 days (4th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Liberia



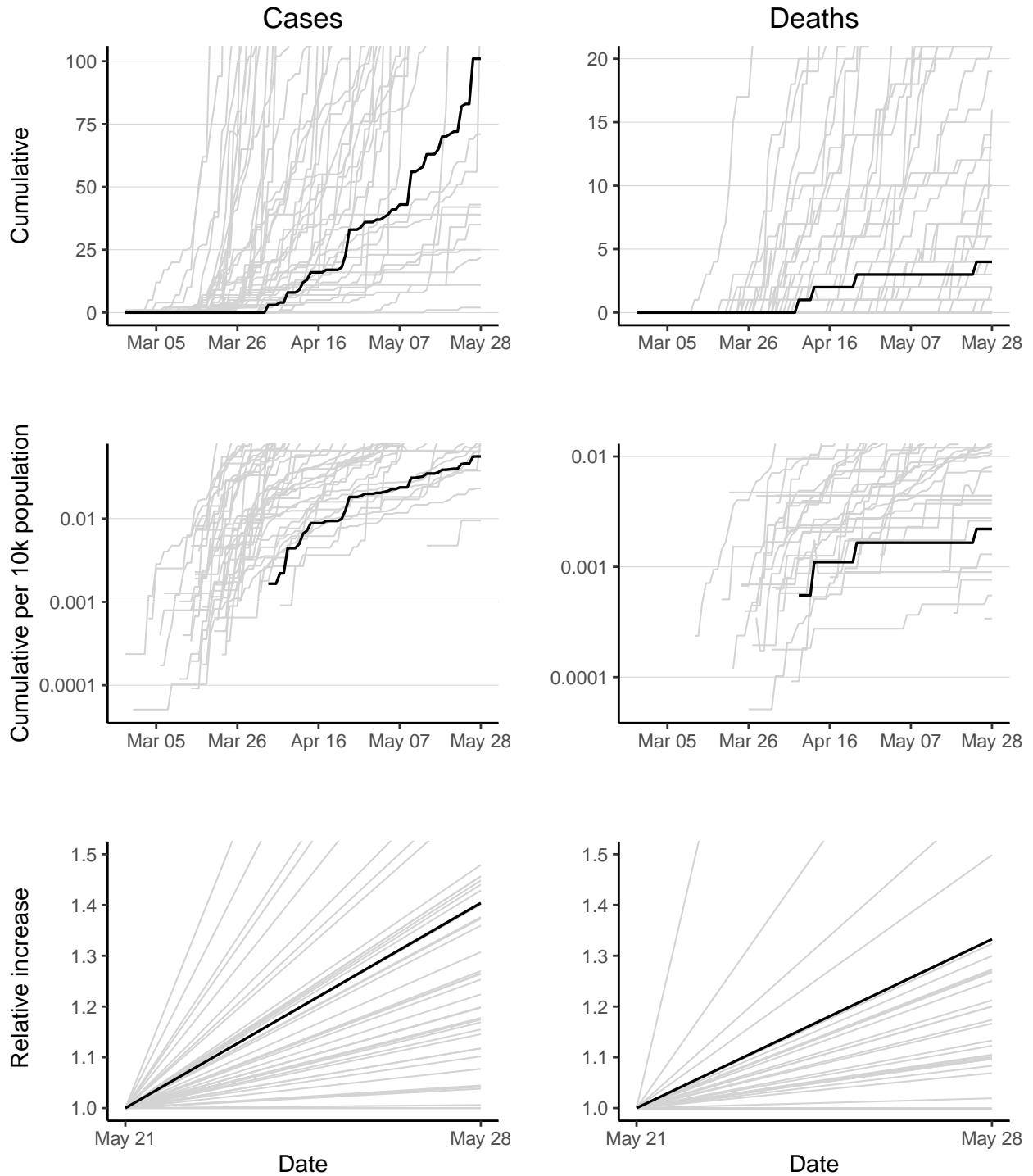
Liberia has 266 reported case(s) (34th in the region) and 27 reported death(s) (15th). Cumulative counts per 10,000 population for reported cases and deaths are 0.55 (23rd) and 0.056 (10th) respectively. Doubling times over the last 7 days for cases and deaths are 43.6 days (34th) and 30.3 days (17th).

Madagascar



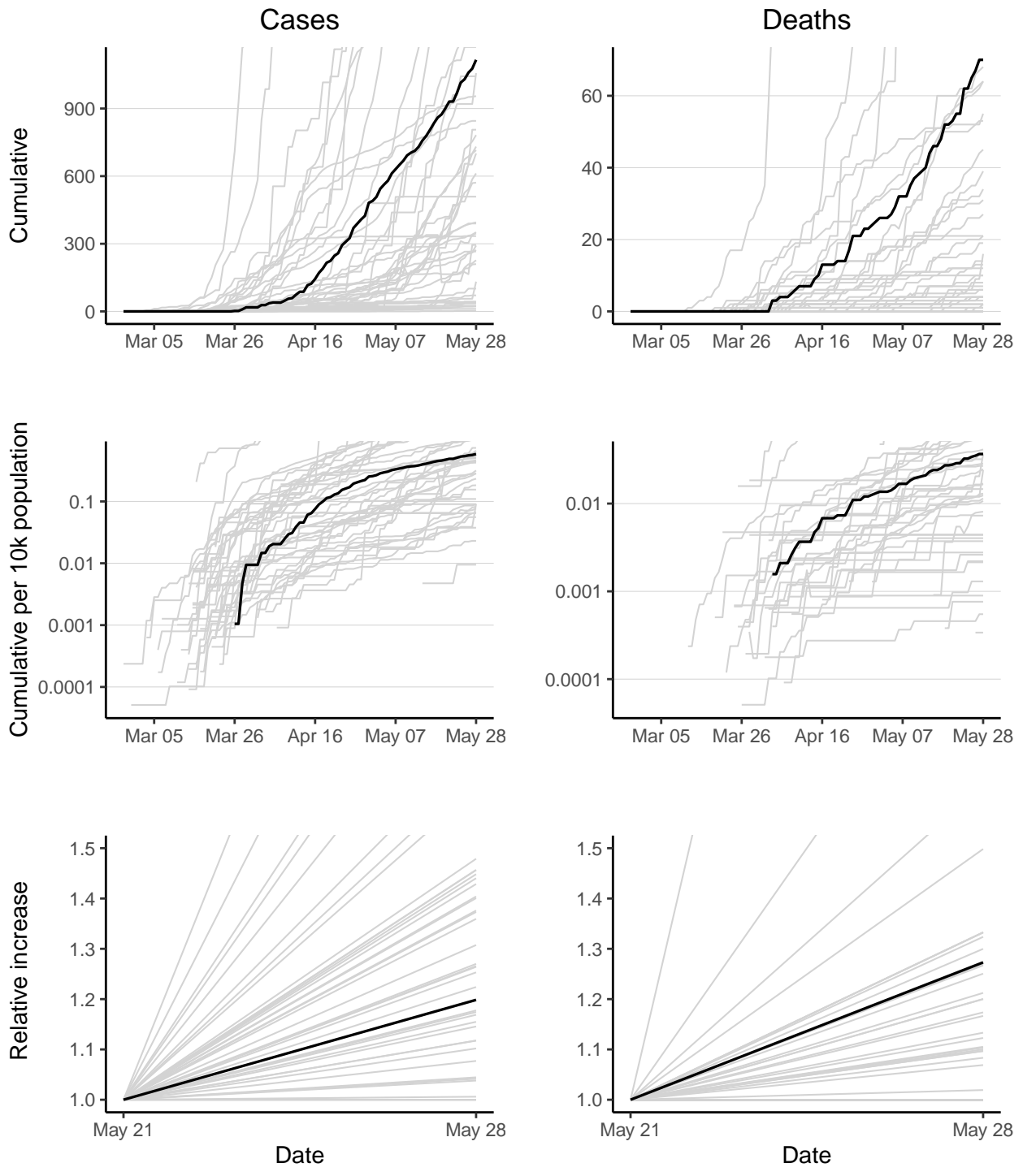
Madagascar has 612 reported case(s) (23rd in the region) and 2 reported death(s) (36th). Cumulative counts per 10,000 population for reported cases and deaths are 0.23 (33rd) and 0.00076 (39th) respectively. The doubling time over the last 7 days for cases is 9.7 days (7th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Malawi



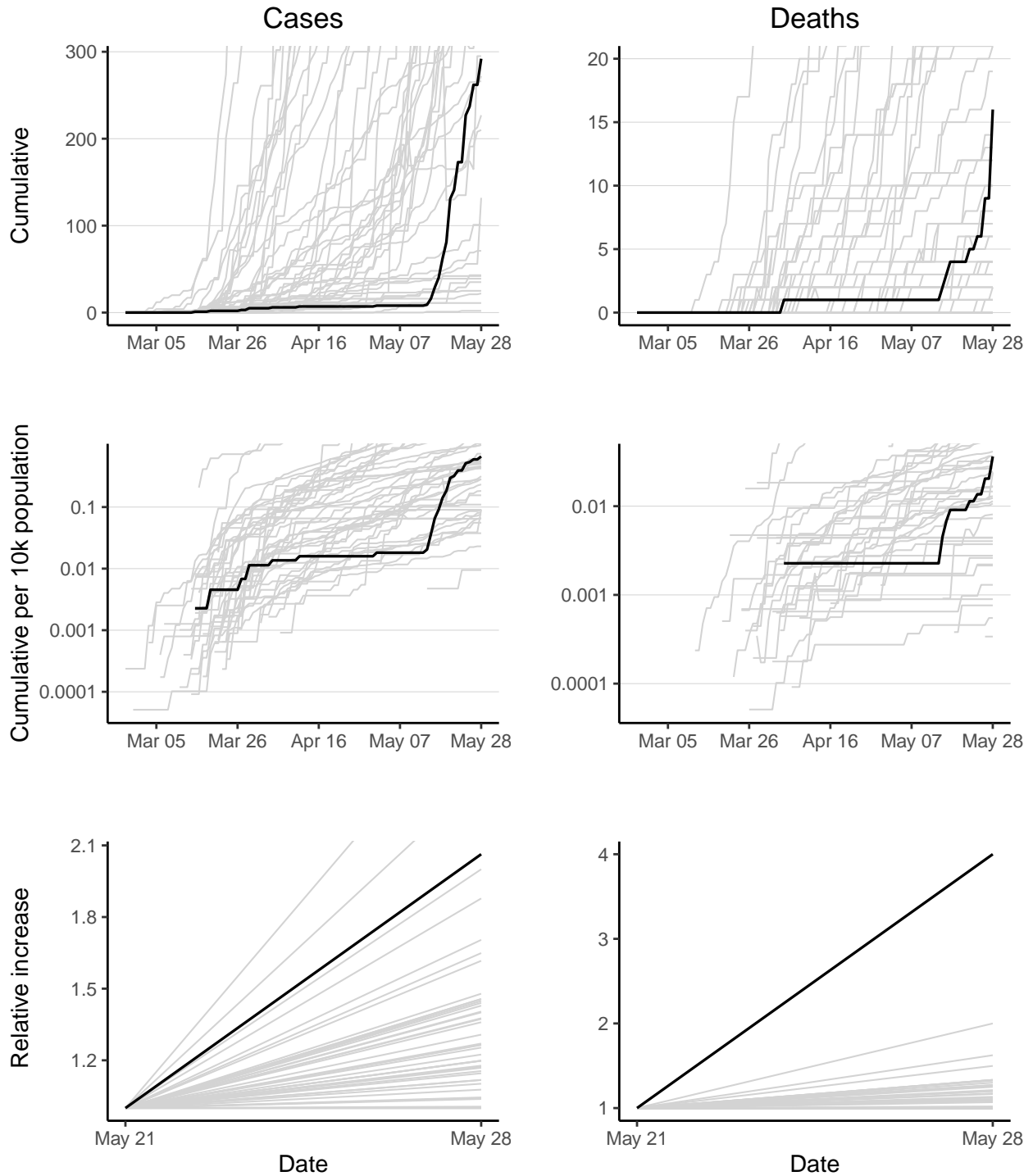
Malawi has 101 reported case(s) (38th in the region) and 4 reported death(s) (31st). Cumulative counts per 10,000 population for reported cases and deaths are 0.056 (44th) and 0.0022 (35th) respectively. Doubling times over the last 7 days for cases and deaths are 14.3 days (15th) and 16.9 days (7th).

Mali



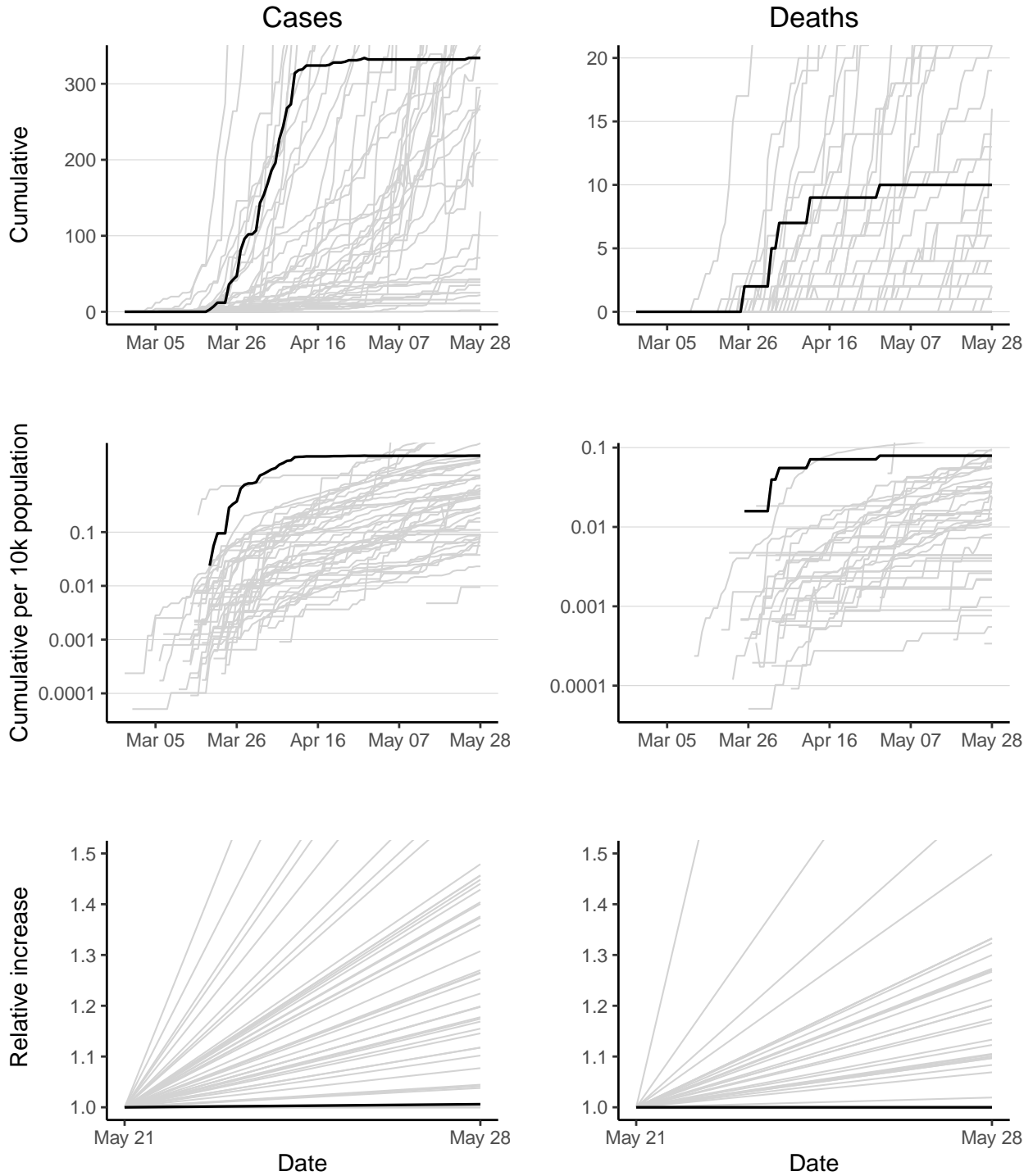
Mali has 1116 reported case(s) (13th in the region) and 70 reported death(s) (5th). Cumulative counts per 10,000 population for reported cases and deaths are 0.58 (22nd) and 0.037 (12th) respectively. Doubling times over the last 7 days for cases and deaths are 26.8 days (26th) and 20.1 days (10th).

Mauritania



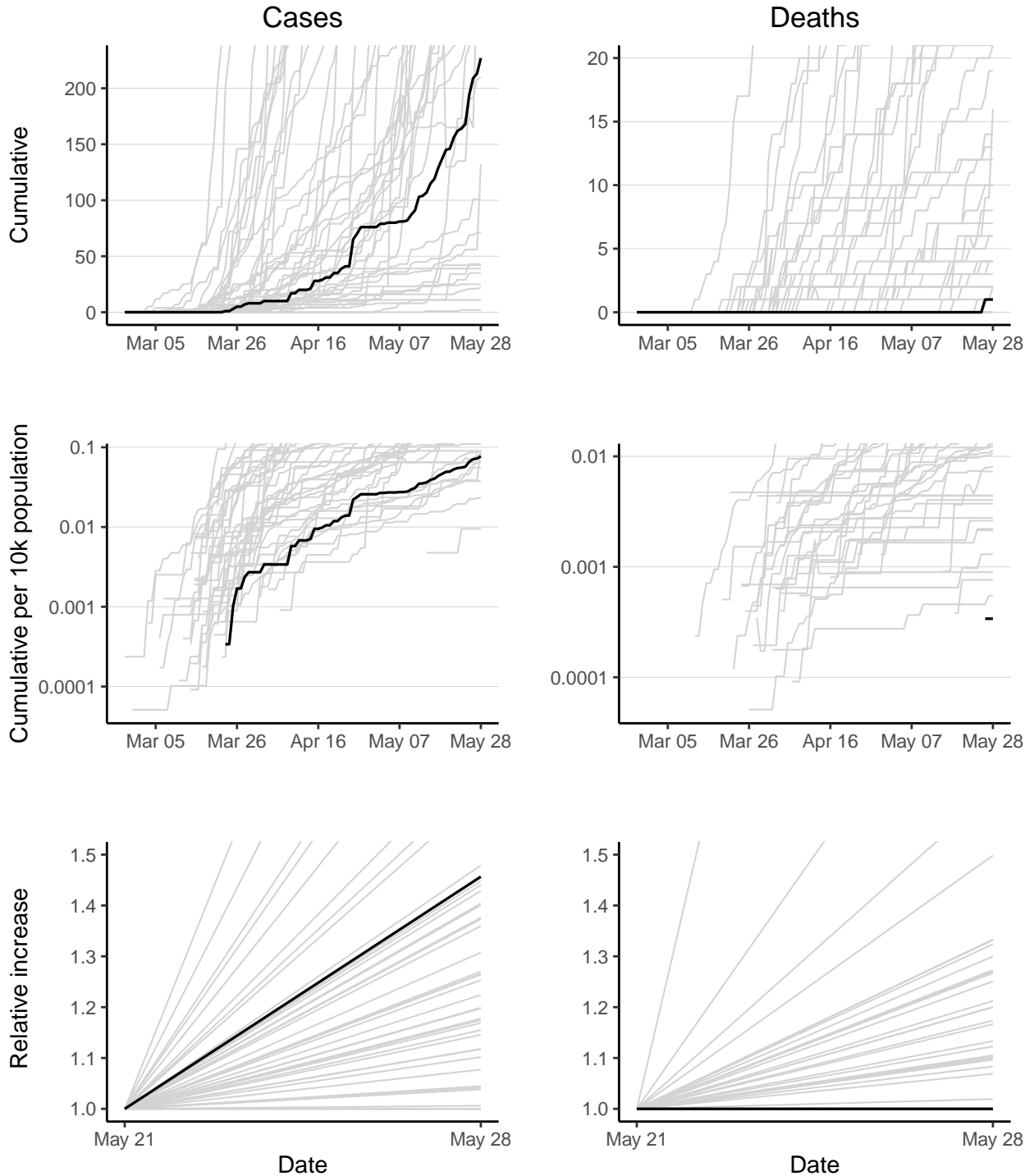
Mauritania has 292 reported case(s) (32nd in the region) and 16 reported death(s) (19th). Cumulative counts per 10,000 population for reported cases and deaths are 0.66 (20th) and 0.036 (13th) respectively. Doubling times over the last 7 days for cases and deaths are 6.7 days (3rd) and 3.5 days (1st).

Mauritius



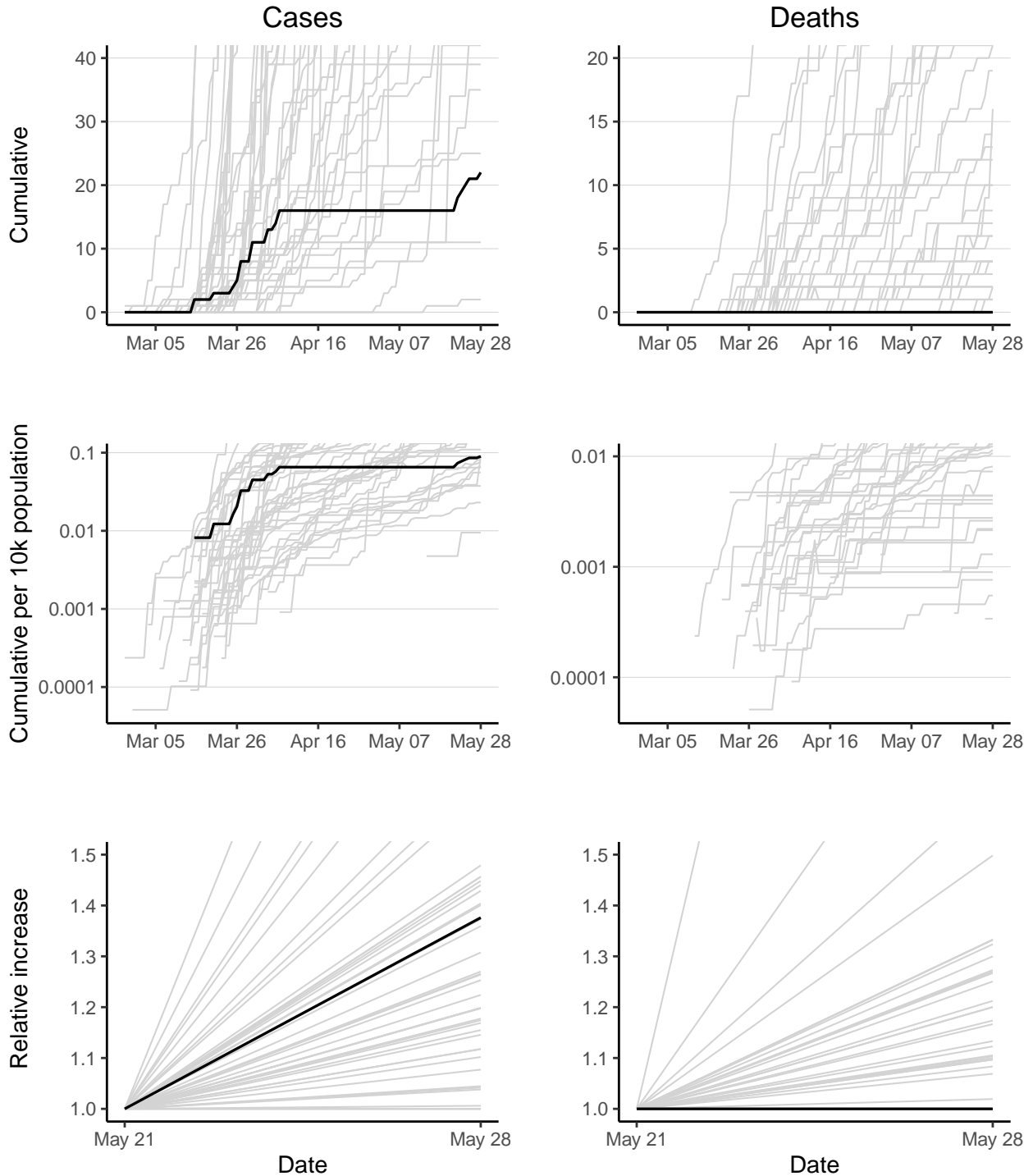
Mauritius has 334 reported case(s) (30th in the region) and 10 reported death(s) (23rd). Cumulative counts per 10,000 population for reported cases and deaths are 2.6 (8th) and 0.079 (5th) respectively. The doubling time over the last 7 days for cases is 807.9 days (41st). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Mozambique



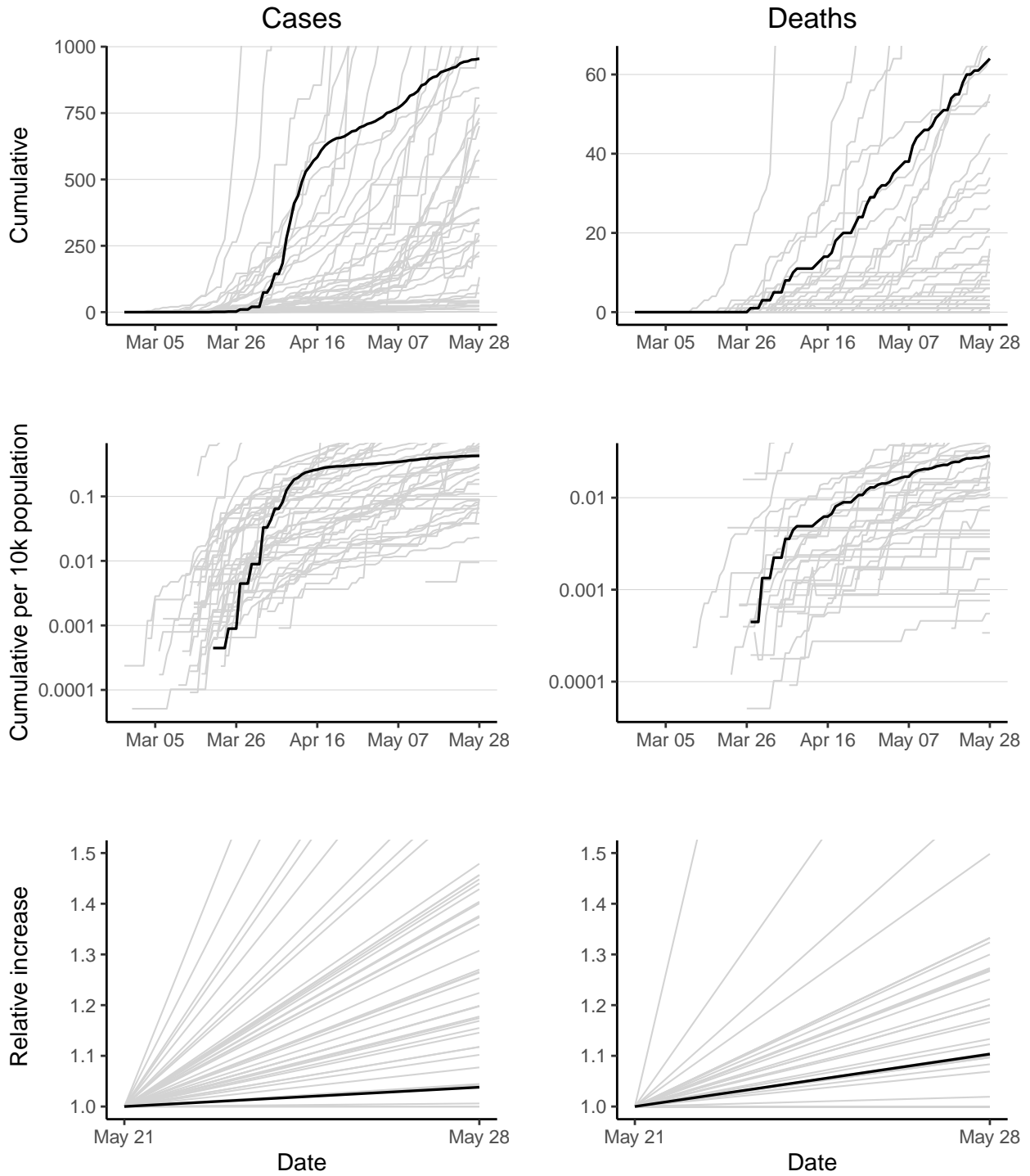
Mozambique has 227 reported case(s) (35th in the region) and 1 reported death(s) (41st). Cumulative counts per 10,000 population for reported cases and deaths are 0.077 (41st) and 0.00034 (41st) respectively. The doubling time over the last 7 days for cases is 12.9 days (11th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Namibia



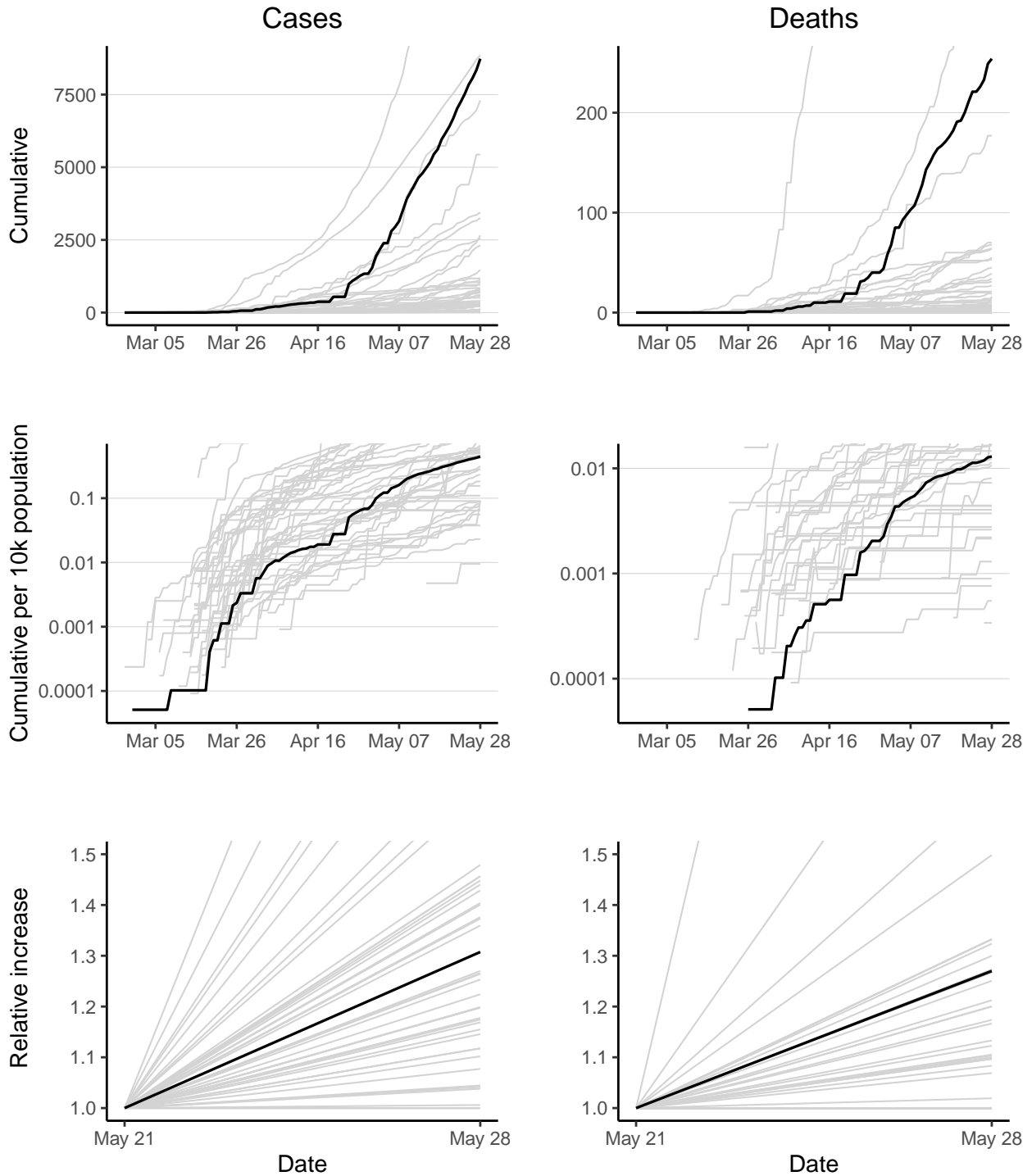
Namibia has 22 reported case(s) (45th in the region) and 0 reported death(s) (44th). Cumulative counts per 10,000 population for reported cases and deaths are 0.09 (39th) and 0 (44th) respectively. The doubling time over the last 7 days for cases is 15.2 days (17th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Niger



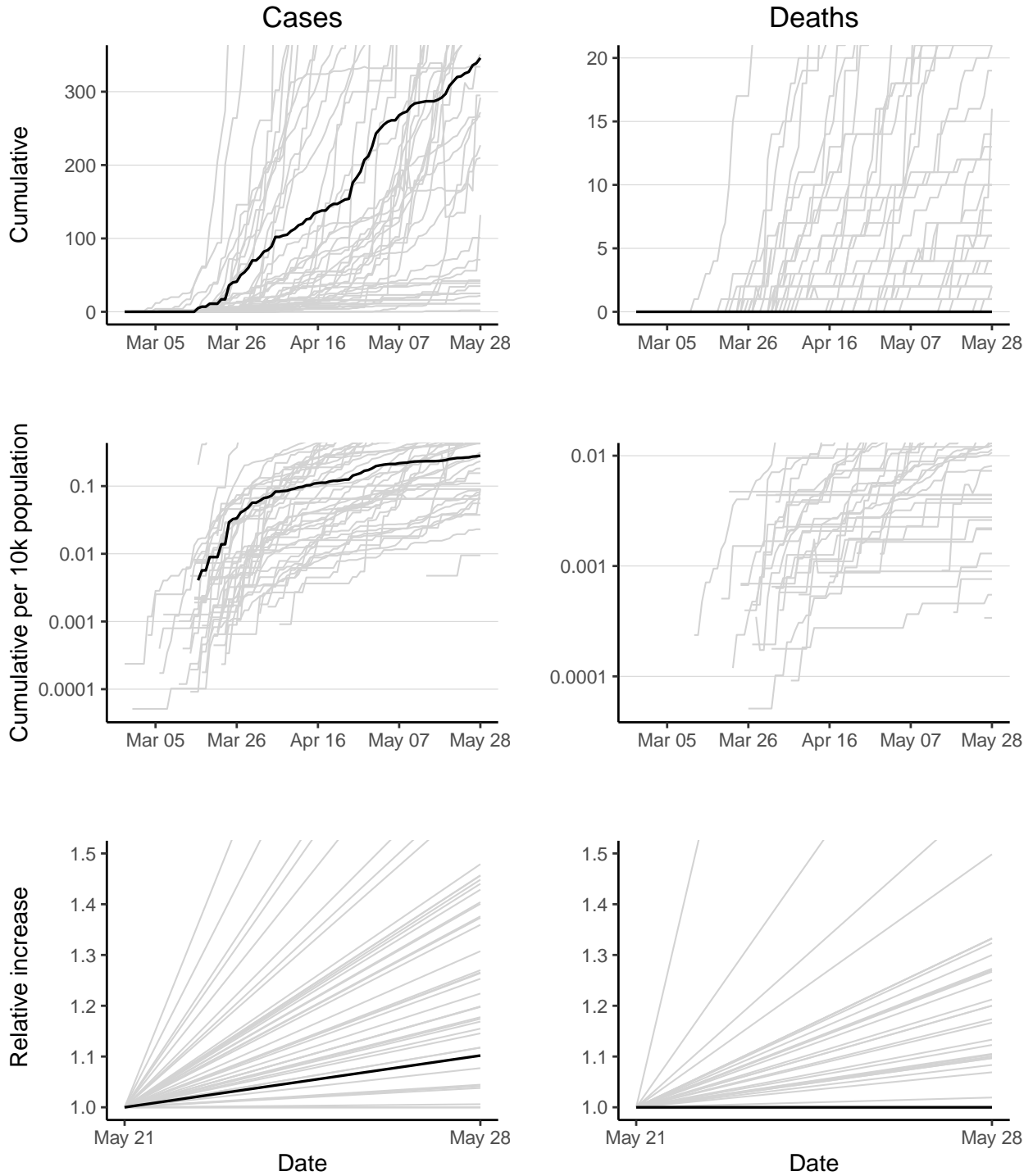
Niger has 955 reported case(s) (16th in the region) and 64 reported death(s) (8th). Cumulative counts per 10,000 population for reported cases and deaths are 0.43 (29th) and 0.029 (16th) respectively. Doubling times over the last 7 days for cases and deaths are 129.9 days (40th) and 49.3 days (22nd).

Nigeria



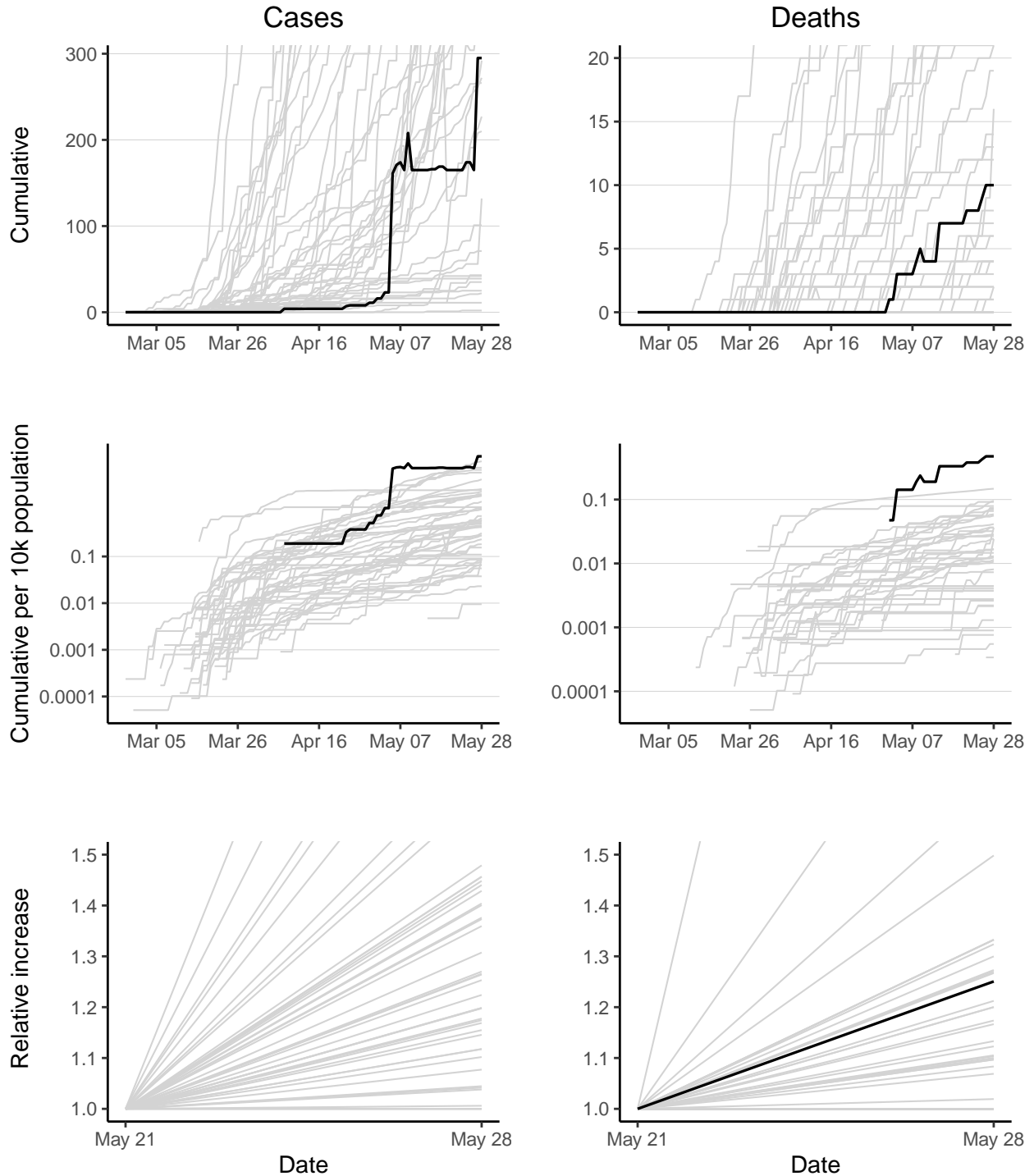
Nigeria has 8733 reported case(s) (3rd in the region) and 254 reported death(s) (3rd). Cumulative counts per 10,000 population for reported cases and deaths are 0.45 (27th) and 0.013 (23rd) respectively. Doubling times over the last 7 days for cases and deaths are 18.1 days (20th) and 20.3 days (11th).

Rwanda



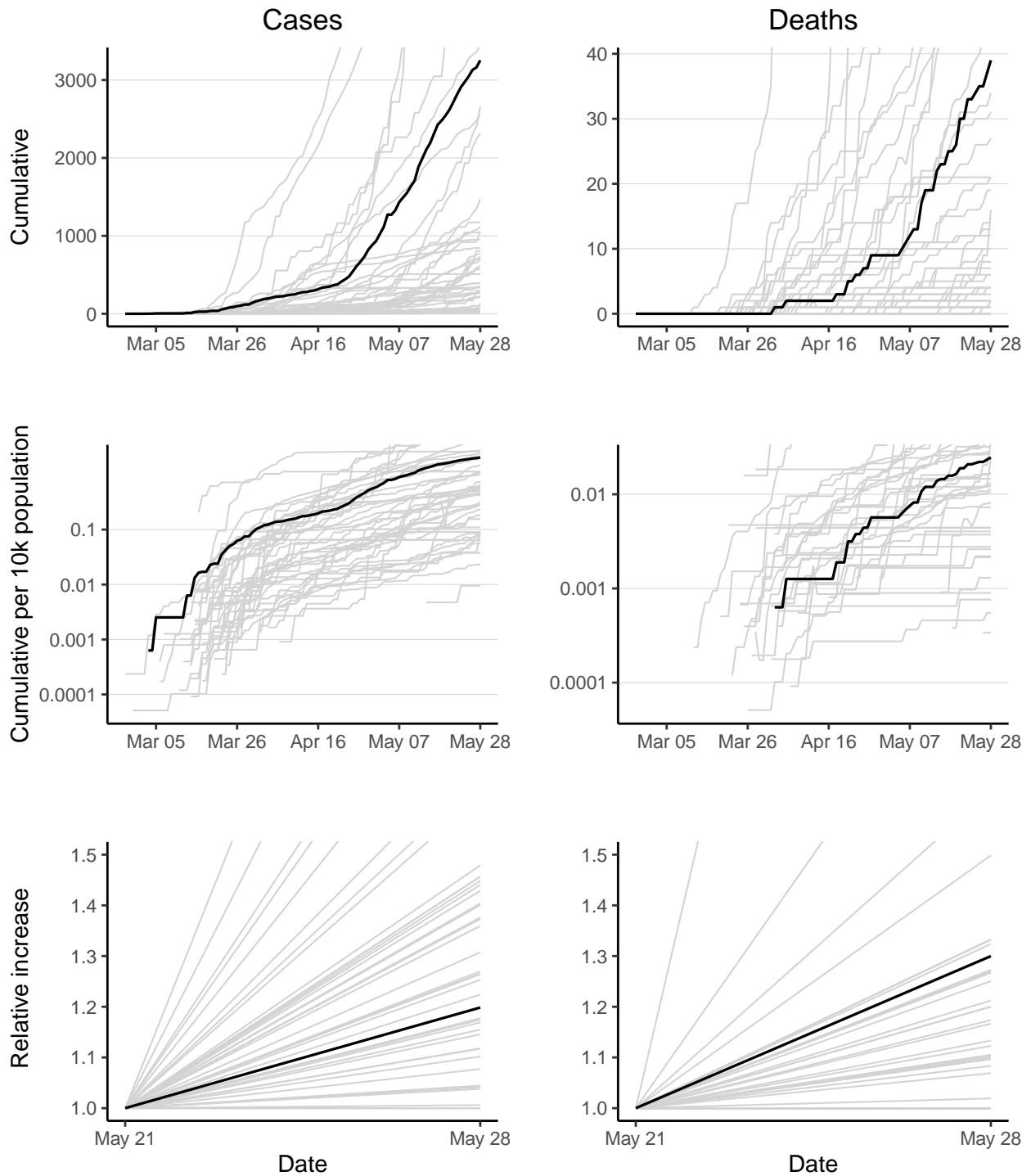
Rwanda has 346 reported case(s) (29th in the region) and 0 reported death(s) (45th). Cumulative counts per 10,000 population for reported cases and deaths are 0.28 (32nd) and 0 (45th) respectively. The doubling time over the last 7 days for cases is 50 days (36th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Sao Tome and Principe



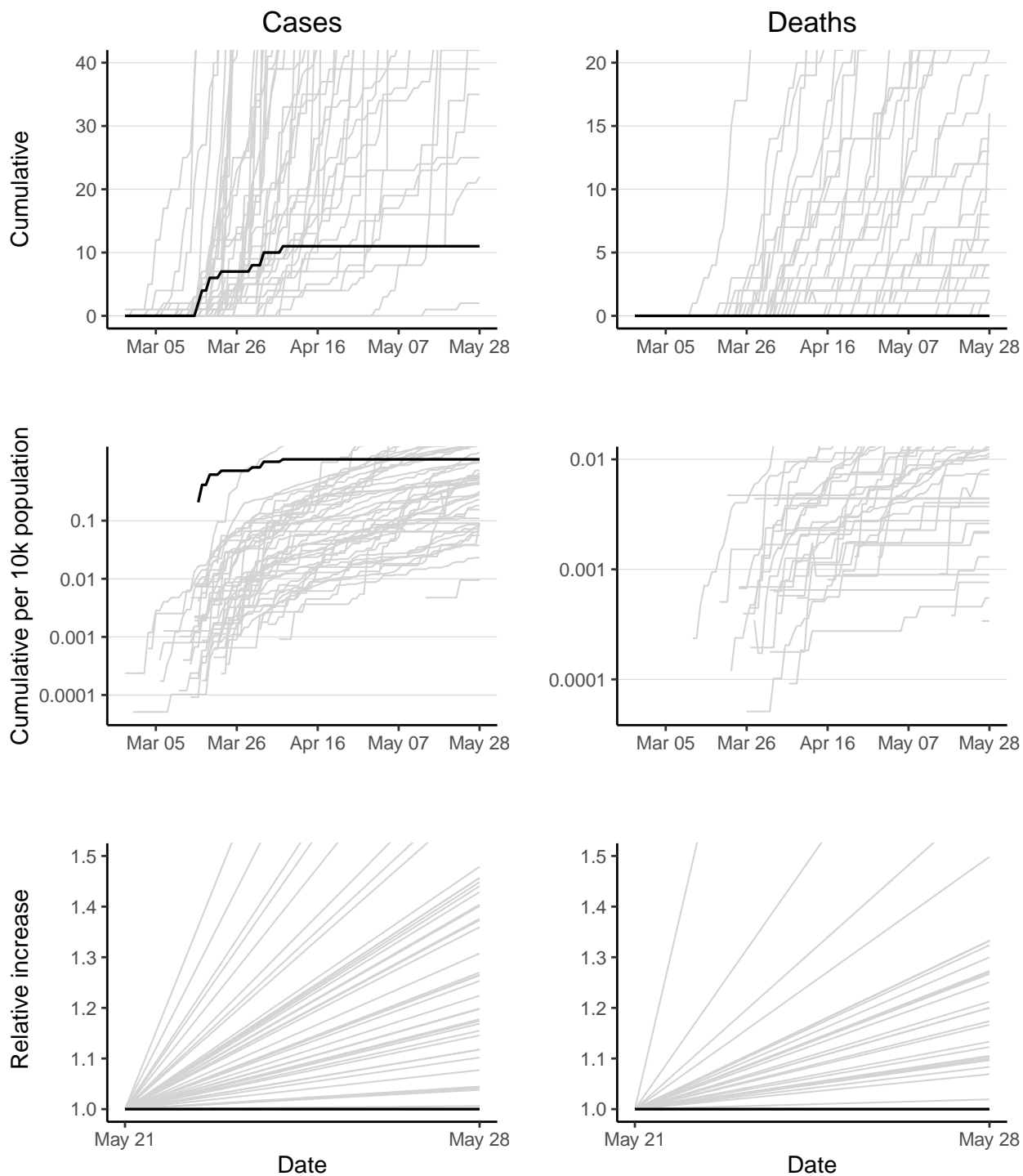
Sao Tome and Principe has 295 reported case(s) (31st in the region) and 10 reported death(s) (24th). Cumulative counts per 10,000 population for reported cases and deaths are 14 (1st) and 0.47 (1st) respectively. The doubling time of reported cases cannot be calculated as some cases have been redacted in last 7 days. The doubling time over the last 7 days for deaths is 21.7 days (13th).

Senegal



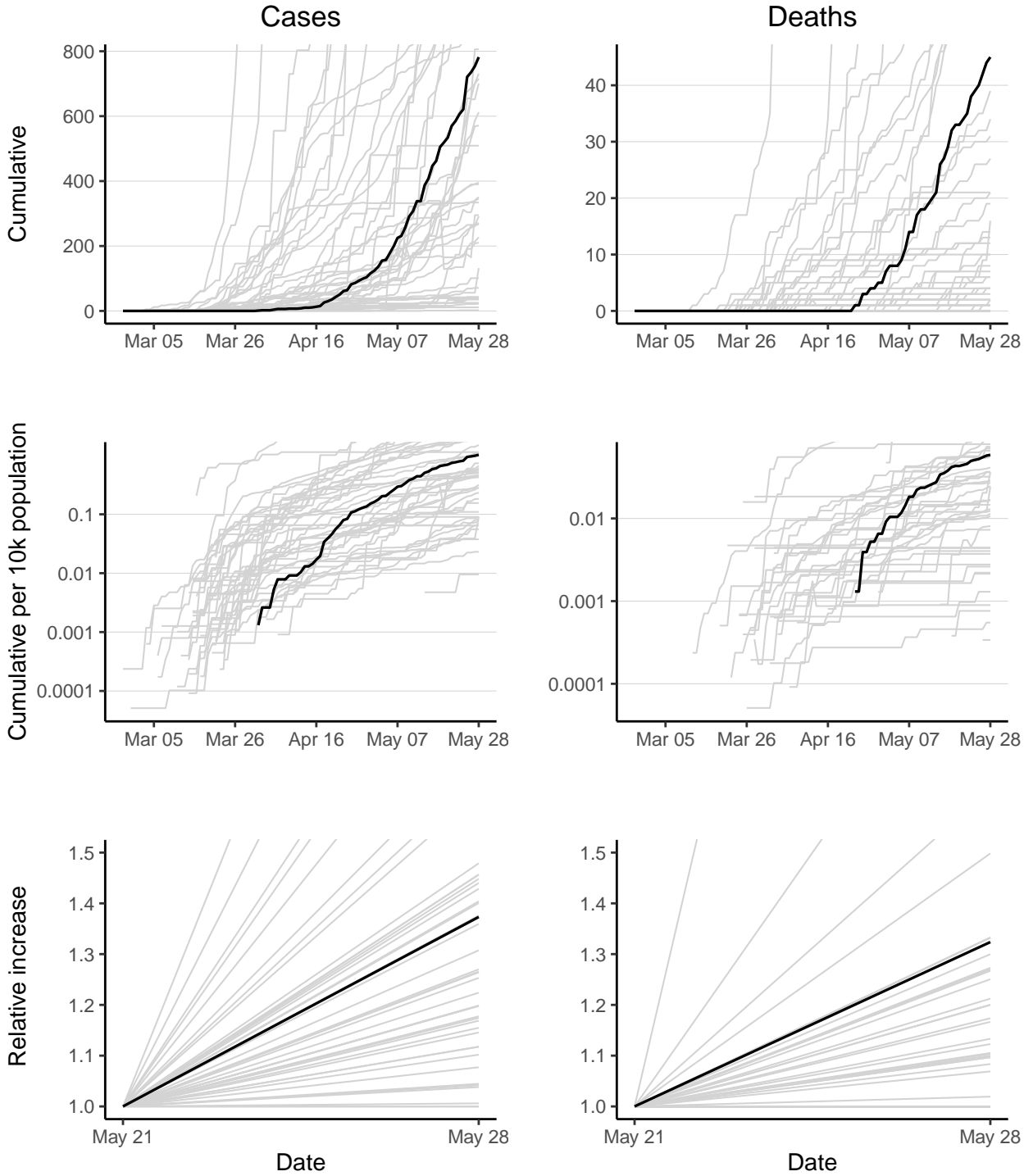
Senegal has 3253 reported case(s) (7th in the region) and 39 reported death(s) (12th). Cumulative counts per 10,000 population for reported cases and deaths are 2.1 (12th) and 0.025 (18th) respectively. Doubling times over the last 7 days for cases and deaths are 26.8 days (27th) and 18.5 days (9th).

Seychelles



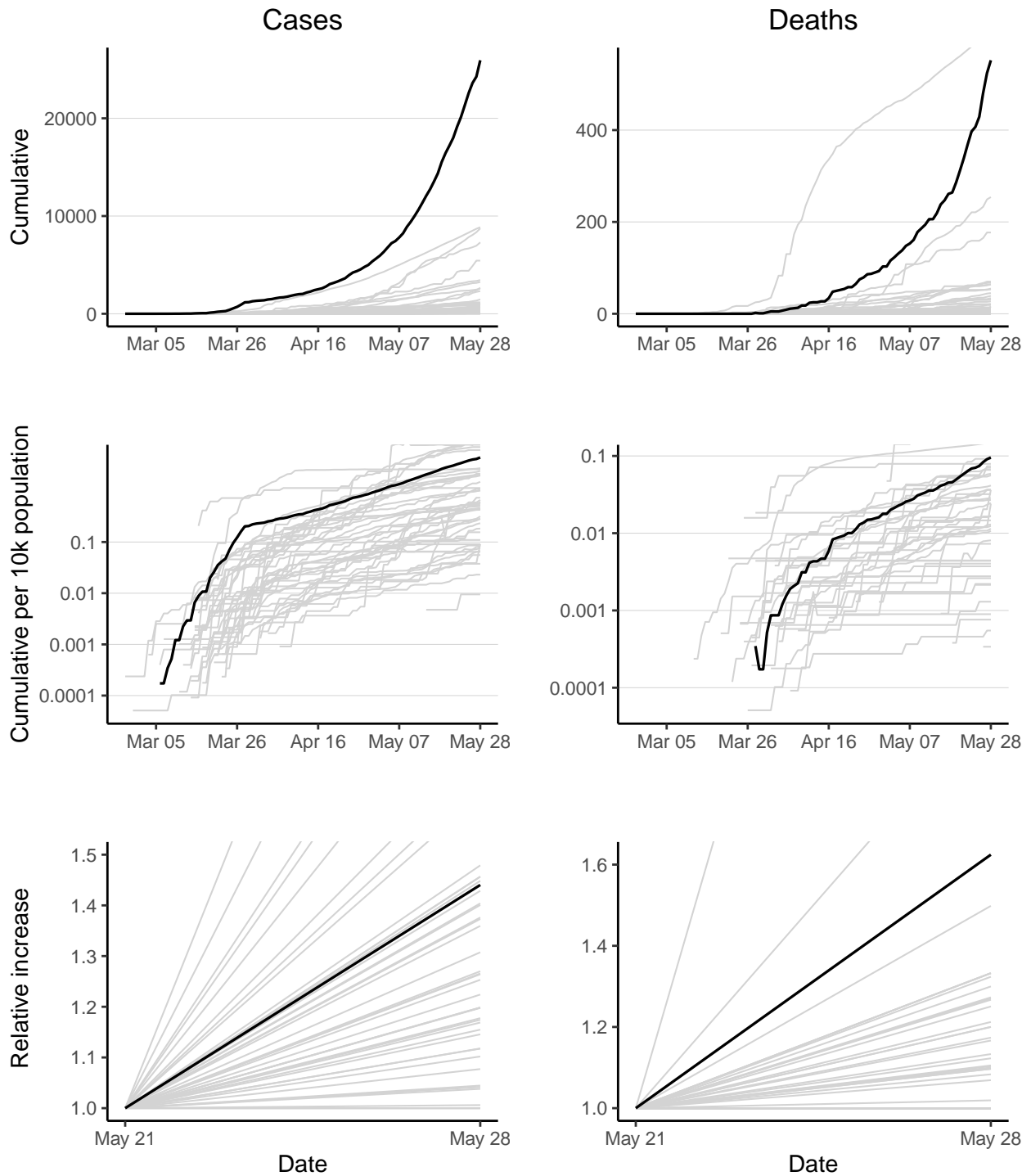
Seychelles has 11 reported case(s) (46th in the region) and 0 reported death(s) (46th). Cumulative counts per 10,000 population for reported cases and deaths are 1.1 (15th) and 0 (46th) respectively. The doubling time of reported cases cannot be calculated as no new cases have been reported in last 7 days. The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Sierra Leone



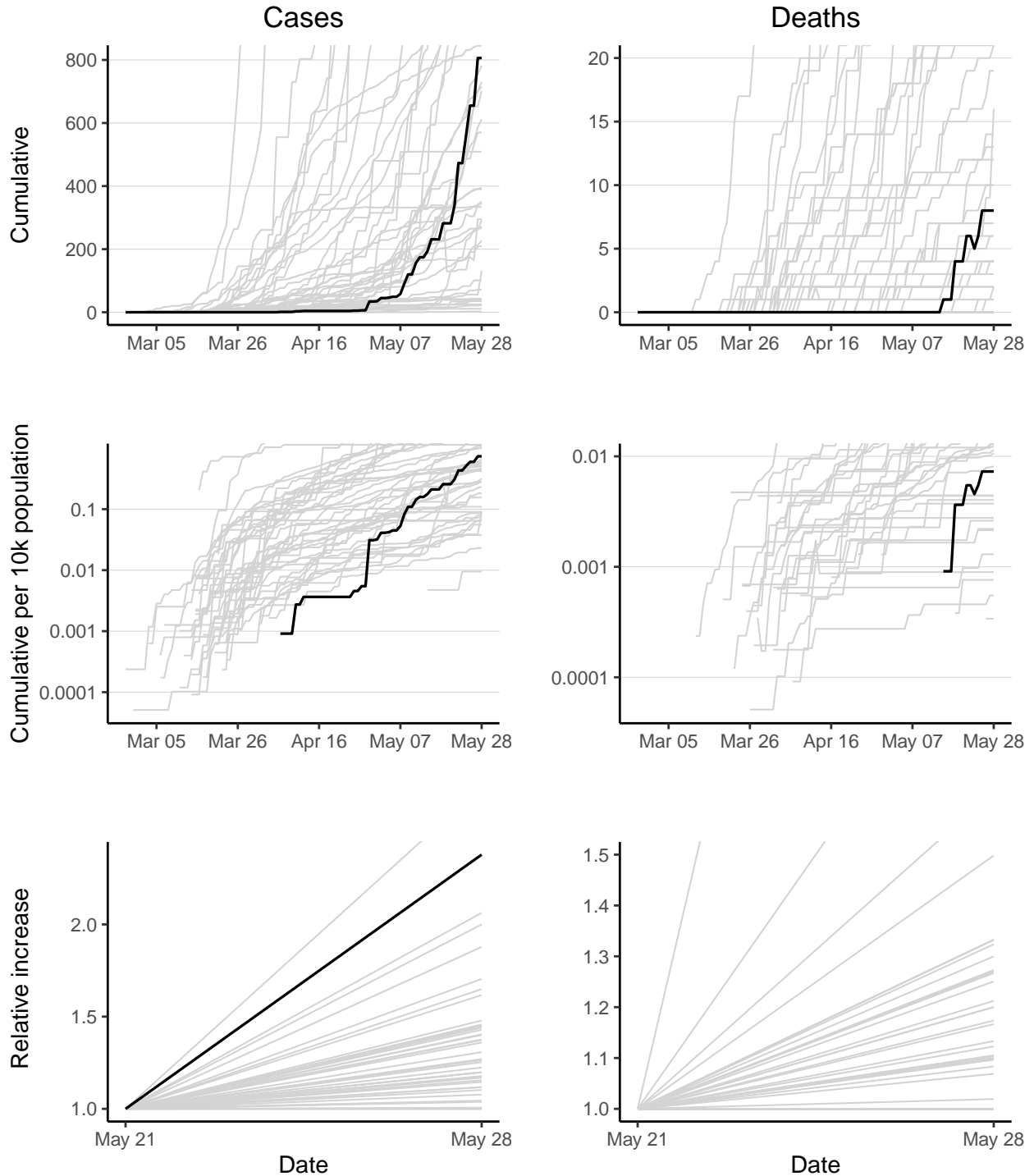
Sierra Leone has 782 reported case(s) (19th in the region) and 45 reported death(s) (11th). Cumulative counts per 10,000 population for reported cases and deaths are 1 (17th) and 0.059 (9th) respectively. Doubling times over the last 7 days for cases and deaths are 15.3 days (18th) and 17.3 days (8th).

South Africa



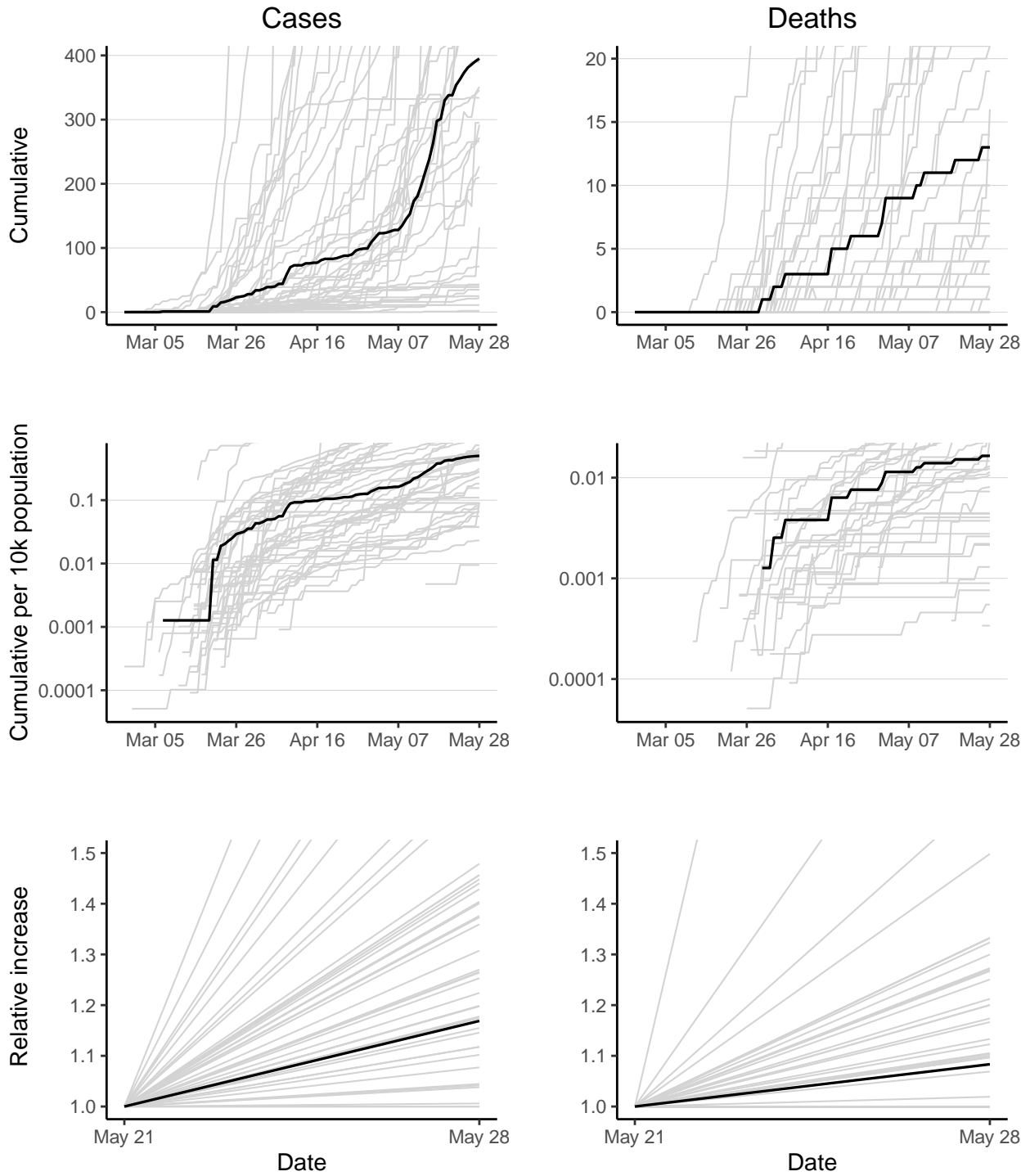
South Africa has 25937 reported case(s) (1st in the region) and 552 reported death(s) (2nd). Cumulative counts per 10,000 population for reported cases and deaths are 4.5 (6th) and 0.096 (3rd) respectively. Doubling times over the last 7 days for cases and deaths are 13.3 days (13th) and 10 days (3rd).

South Sudan



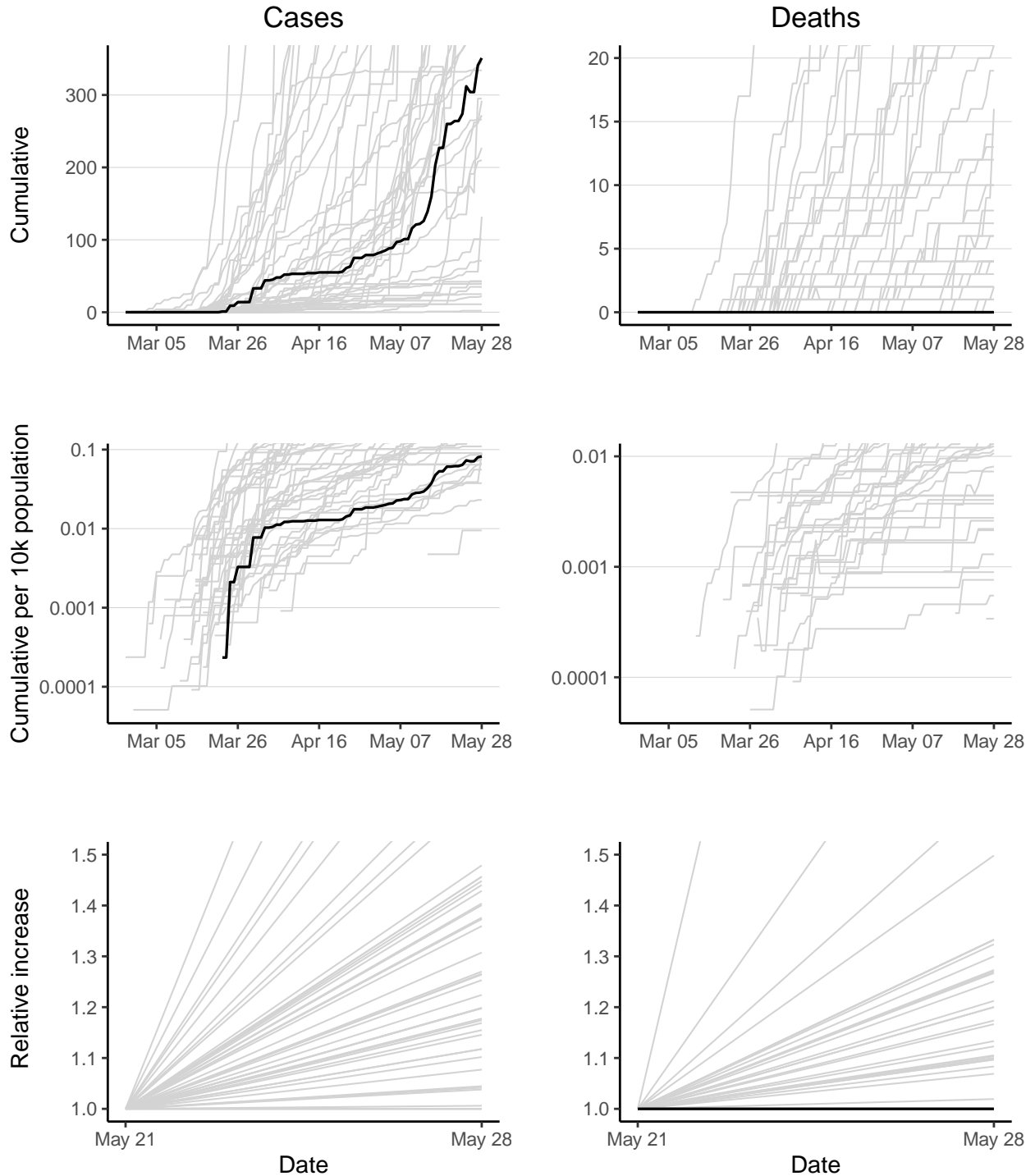
South Sudan has 806 reported case(s) (18th in the region) and 8 reported death(s) (25th). Cumulative counts per 10,000 population for reported cases and deaths are 0.73 (19th) and 0.0073 (28th) respectively. The doubling time over the last 7 days for cases is 5.6 days (2nd). The doubling time of reported deaths cannot be calculated as some deaths have been redacted in last 7 days.

Togo



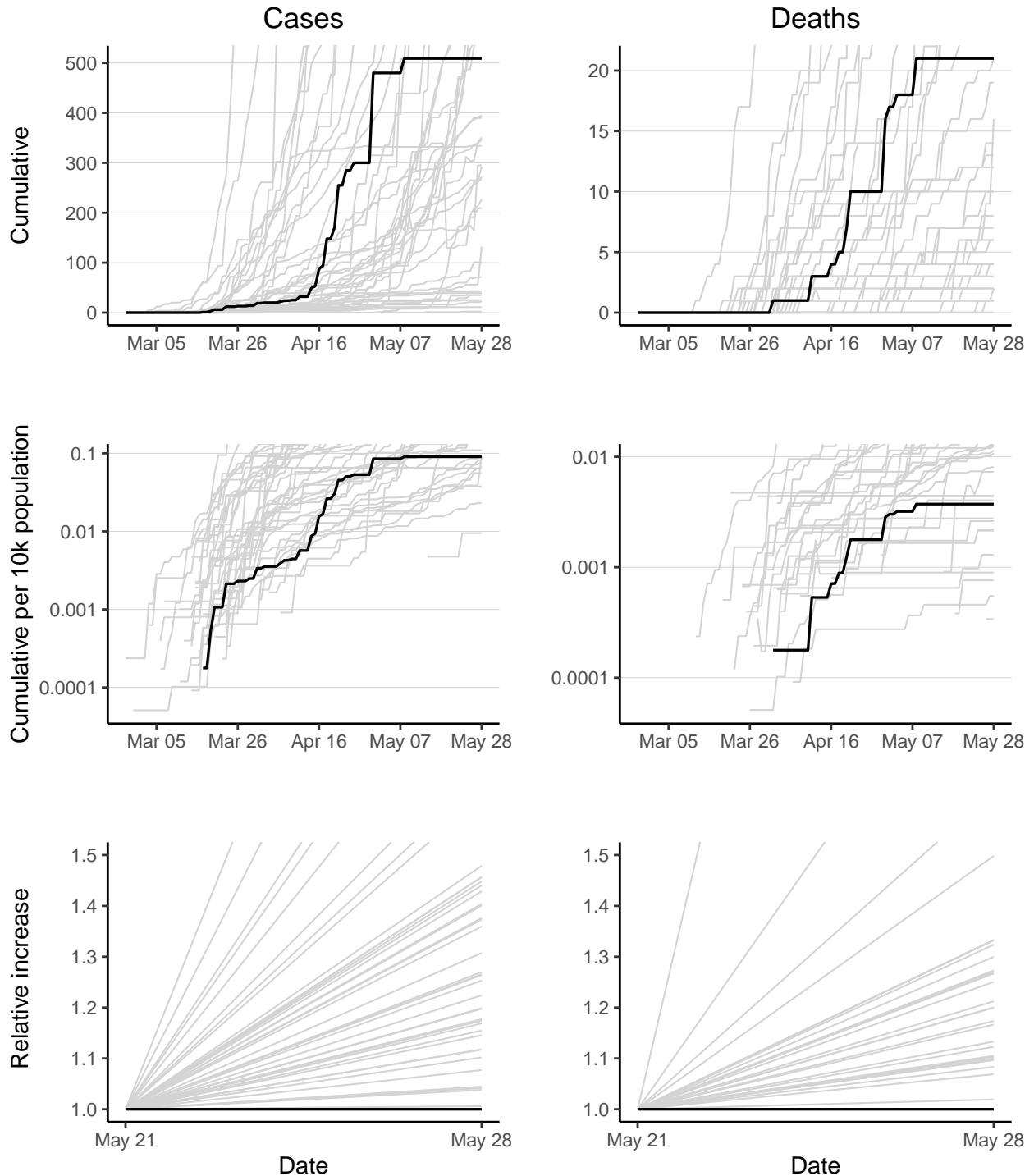
Togo has 395 reported case(s) (26th in the region) and 13 reported death(s) (21st). Cumulative counts per 10,000 population for reported cases and deaths are 0.5 (25th) and 0.016 (21st) respectively. Doubling times over the last 7 days for cases and deaths are 31.1 days (31st) and 60.6 days (26th).

Uganda



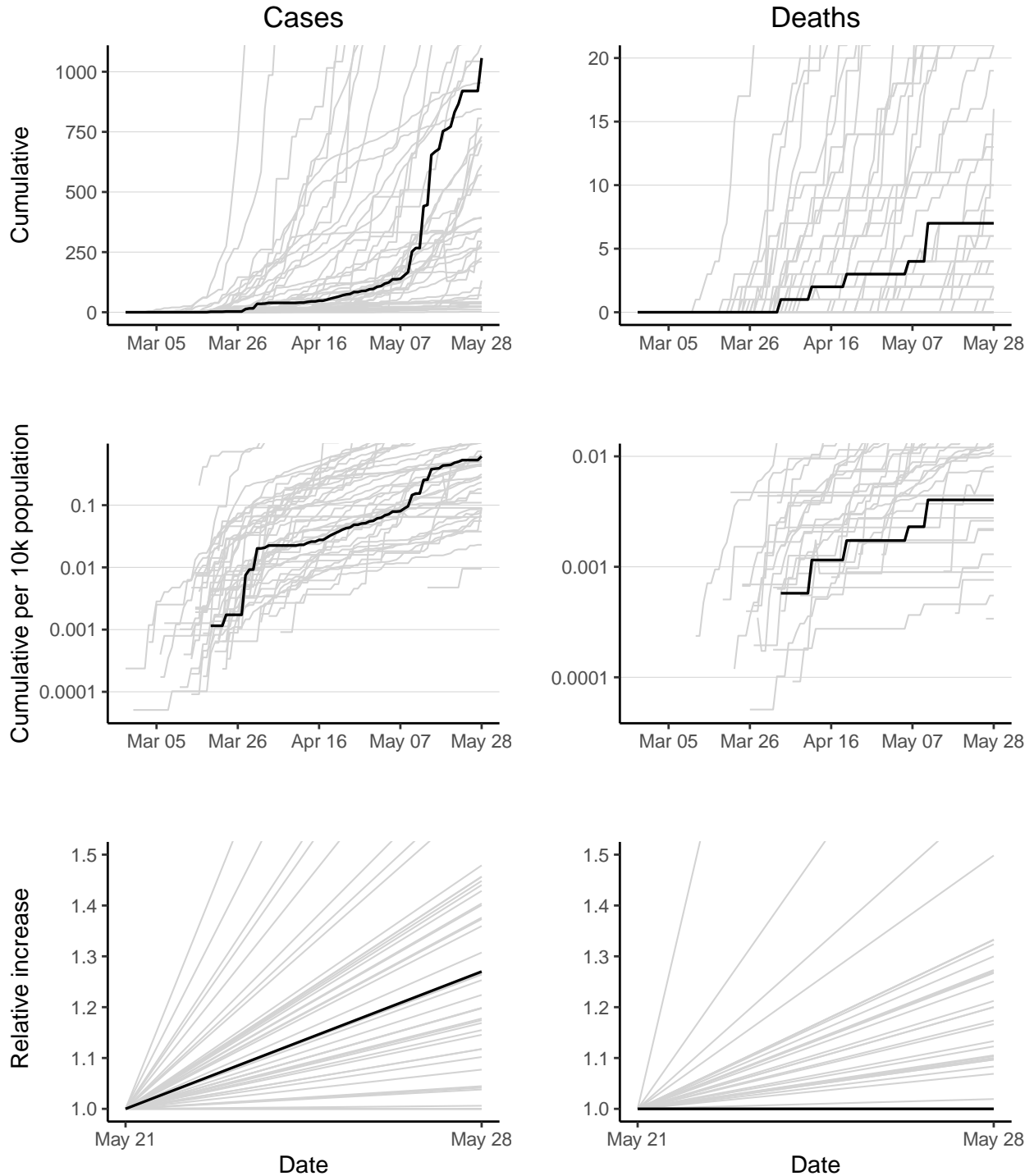
Uganda has 351 reported case(s) (28th in the region) and 0 reported death(s) (47th). Cumulative counts per 10,000 population for reported cases and deaths are 0.082 (40th) and 0 (47th) respectively. The doubling time of reported cases cannot be calculated as some cases have been redacted in last 7 days. The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

United Republic of Tanzania



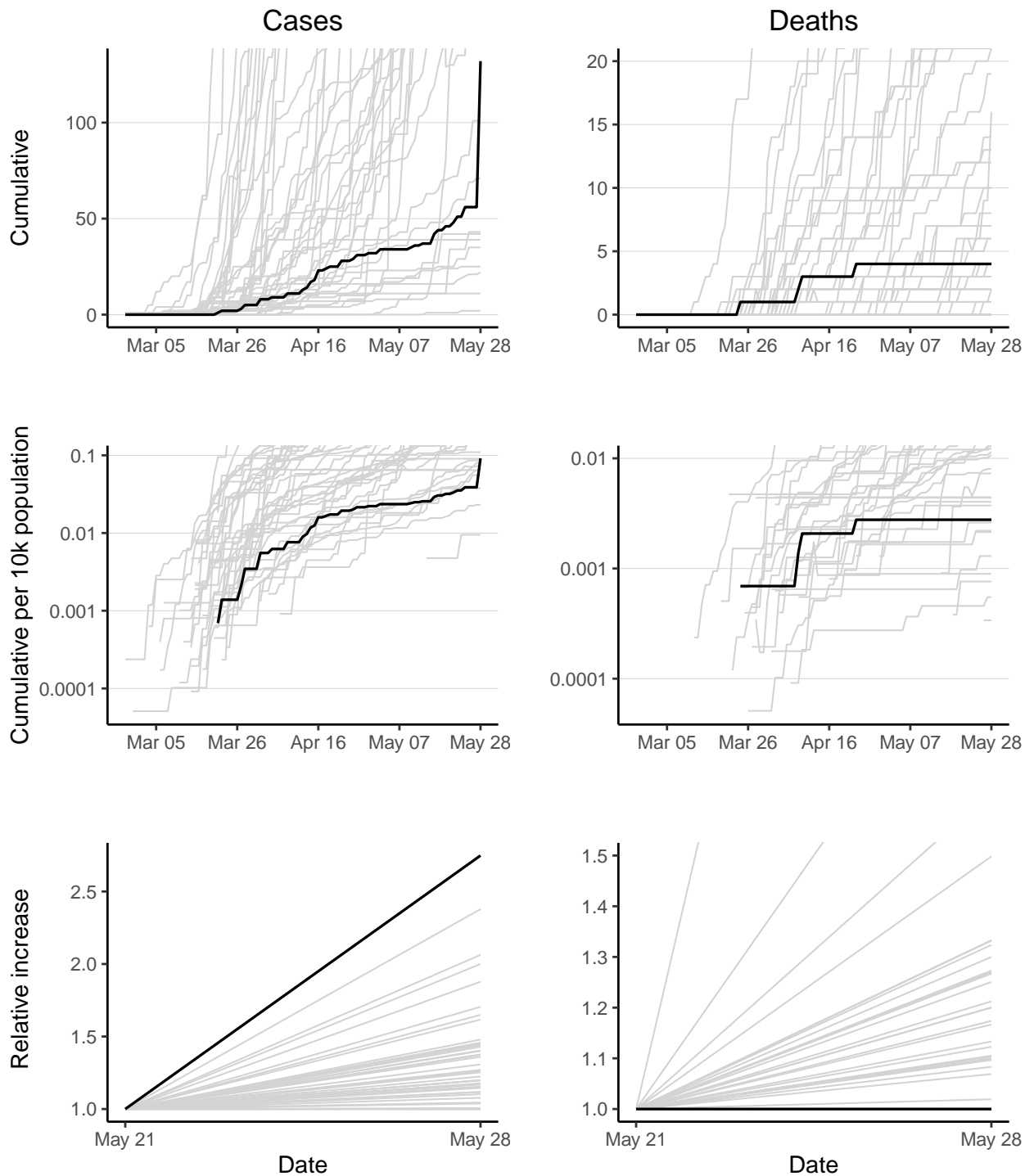
United Republic of Tanzania has 509 reported case(s) (25th in the region) and 21 reported death(s) (17th). Cumulative counts per 10,000 population for reported cases and deaths are 0.09 (38th) and 0.0037 (32nd) respectively. The doubling time of reported cases cannot be calculated as no new cases have been reported in last 7 days. The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Zambia



Zambia has 1057 reported case(s) (14th in the region) and 7 reported death(s) (26th). Cumulative counts per 10,000 population for reported cases and deaths are 0.61 (21st) and 0.004 (31st) respectively. The doubling time over the last 7 days for cases is 20.3 days (21st). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Zimbabwe



Zimbabwe has 132 reported case(s) (37th in the region) and 4 reported death(s) (32nd). Cumulative counts per 10,000 population for reported cases and deaths are 0.091 (37th) and 0.0028 (33rd) respectively. The doubling time over the last 7 days for cases is 4.8 days (1st). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Appendix

Data

Sources and access

- Case counts for countries in WHO Africa Region from WHO Coronavirus disease (COVID-2019) situation reports <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports> (accessed 2400 28/05/2020).
- Death counts for countries in WHO African Region from WHO Coronavirus disease (COVID-2019) situation reports <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports> (accessed 2400 28/05/2020).
- Population counts from the World Bank (2018) <https://data.worldbank.org/indicator/SP.POP.TOTL?locations=ZG> (accessed 0900 30/03/2020).

Doubling time calculations

Calculated over prior 7 days using method described by *E. Vynnycky & R. White (2010) An Introduction to Infectious Disease Modelling*, page 74.

Confidence intervals calculated using bootstrapping of a simulated dataset with Poisson error structure, using method published here: <https://doi.org/10.1101/2020.02.05.20020750>.

Caveats

- Case count data are affected by any changes in testing strategy or testing effort over time and/or any variation in testing strategy or testing effort between regions.
- Case count data are likely a substantial under-representation of the true number of COVID-19 infections.
- Death data are considered more reliable but may lag behind case data by as much as 3 weeks.
- Countries that have reduced their cumulative total cases/deaths in the last 7 days are assigned a doubling time of -1.

Extended Data tables

Cumulative reported cases

Country	Cum. reported cases	95%CI lower	95%CI upper
South Africa	25937	25676	26209
Algeria	8857	8706	9016
Nigeria	8733	NA	NA
Ghana	7303	7165	7439
Cameroon	5436	NA	NA
Guinea	3446	3347	3540
Senegal	3253	NA	NA
Democratic Republic of the Congo	2659	2574	2741
Cote d'Ivoire	2556	2471	2639
Gabon	2319	2238	2401
Kenya	1471	1410	1536
Guinea-Bissau	1173	1115	1227
Mali	1116	1060	1168
Zambia	1057	1005	1109
Equatorial Guinea	1043	991	1094
Niger	955	904	1006
Burkina Faso	845	798	895
South Sudan	806	757	854
Sierra Leone	782	736	827
Ethiopia	731	686	774
Chad	715	671	761
Central African Republic	701	653	749
Madagascar	612	NA	NA
Congo	571	532	608
United Republic of Tanzania	509	471	546
Togo	395	364	428
Cabo Verde	390	359	423
Uganda	351	NA	NA
Rwanda	346	317	380
Mauritius	334	NA	NA
Sao Tome and Principe	295	NA	NA
Mauritania	292	262	321
Eswatini	272	244	300
Liberia	266	241	294
Mozambique	227	202	250
Benin	210	NA	NA
Zimbabwe	132	113	150
Malawi	101	85	120
Angola	71	57	85
Comoros	43	32	54
Burundi	42	31	52
Eritrea	39	29	49
Botswana	35	25	45
Gambia	25	17	34
Namibia	22	15	30
Seychelles	11	6	17
Lesotho	2	0	5

Cumulative reported cases per 10,000 population

Country	Cum. reported cases per 10k pop	95%CI lower	95%CI upper
Sao Tome and Principe	13.9791876	NA	NA
Gabon	10.9424213	11	11
Equatorial Guinea	7.9680727	8	8
Cabo Verde	7.1721896	7	8
Guinea-Bissau	6.2583064	6	7
South Africa	4.4889529	4	5
Guinea	2.7758271	3	3
Mauritius	2.6396839	NA	NA
Ghana	2.4533791	2	2
Cameroon	2.1557539	NA	NA
Algeria	2.0974022	2	2
Senegal	2.0518015	NA	NA
Eswatini	1.9897586	2	2
Central African Republic	1.5022361	1	2
Seychelles	1.1368099	1	2
Congo	1.0887881	1	1
Sierra Leone	1.0222016	1	1
Cote d'Ivoire	1.0195766	1	1
South Sudan	0.7343348	1	1
Mauritania	0.6631361	1	1
Zambia	0.6091579	1	1
Mali	0.5849765	1	1
Liberia	0.5519844	1	1
Comoros	0.5166270	0	1
Togo	0.5006912	0	1
Chad	0.4619534	0	0
Nigeria	0.4458462	NA	NA
Burkina Faso	0.4278149	0	0
Niger	0.4255234	0	0
Democratic Republic of the Congo	0.3162912	0	0
Kenya	0.2862257	0	0
Rwanda	0.2812565	0	0
Madagascar	0.2330331	NA	NA
Benin	0.1828464	NA	NA
Botswana	0.1552708	0	0
Gambia	0.1096442	0	0
Zimbabwe	0.0914190	0	0
United Republic of Tanzania	0.0903791	0	0
Namibia	0.0898599	0	0
Uganda	0.0821569	NA	NA
Mozambique	0.0769597	0	0
Ethiopia	0.0669263	0	0
Eritrea	0.0644628	0	0
Malawi	0.0556679	0	0
Burundi	0.0375826	0	0
Angola	0.0230446	0	0
Lesotho	0.0094871	0	0

Cumulative deaths

Country	Cum. reported deaths	95%CI lower	95%CI upper
Algeria	623	585	665
South Africa	552	NA	NA
Nigeria	254	228	280
Cameroon	177	155	199
Mali	70	57	83
Democratic Republic of the Congo	68	55	81
Chad	64	51	78
Niger	64	52	78
Kenya	55	NA	NA
Burkina Faso	53	41	65
Sierra Leone	45	34	57
Senegal	39	29	50
Ghana	34	24	44
Cote d'Ivoire	31	22	40
Liberia	27	19	36
Guinea	21	14	29
United Republic of Tanzania	21	13	28
Congo	19	13	27
Mauritania	16	10	22
Gabon	14	8	20
Togo	13	7	19
Equatorial Guinea	12	7	18
Mauritius	10	5	16
Sao Tome and Principe	10	NA	NA
South Sudan	8	NA	NA
Zambia	7	3	12
Ethiopia	6	2	10
Guinea-Bissau	6	2	11
Angola	4	1	7
Cabo Verde	4	1	7
Malawi	4	1	8
Zimbabwe	4	1	7
Benin	3	NA	NA
Comoros	2	0	5
Eswatini	2	0	4
Madagascar	2	0	5
Botswana	1	0	3
Burundi	1	0	3
Central African Republic	1	0	3
Gambia	1	0	3
Mozambique	1	0	3
Eritrea	0	0	0
Lesotho	0	0	0
Namibia	0	0	0
Rwanda	0	0	0
Seychelles	0	0	0
Uganda	0	0	0

Cumulative deaths per 10,000 populations

Country	Cum. reported deaths per 10k pop	95%CI lower	95%CI upper
Sao Tome and Principe	0.4738708	NA	NA
Algeria	0.1475309	0	0
South Africa	0.0955354	NA	NA
Equatorial Guinea	0.0916749	0	0
Mauritius	0.0790325	0	0
Cabo Verde	0.0735609	0	0
Cameroon	0.0701929	0	0
Gabon	0.0660603	0	0
Sierra Leone	0.0588223	0	0
Liberia	0.0560285	0	0
Chad	0.0413497	0	0
Mali	0.0366921	0	0
Mauritania	0.0363362	0	0
Congo	0.0362294	0	0
Guinea-Bissau	0.0320118	0	0
Niger	0.0285168	0	0
Burkina Faso	0.0268334	0	0
Senegal	0.0245989	0	0
Comoros	0.0240292	0	0
Guinea	0.0169160	0	0
Togo	0.0164784	0	0
Eswatini	0.0146306	0	0
Nigeria	0.0129675	0	0
Cote d'Ivoire	0.0123658	0	0
Ghana	0.0114220	0	0
Kenya	0.0107018	NA	NA
Democratic Republic of the Congo	0.0080887	0	0
South Sudan	0.0072887	NA	NA
Botswana	0.0044363	0	0
Gambia	0.0043858	0	0
Zambia	0.0040342	0	0
United Republic of Tanzania	0.0037288	0	0
Zimbabwe	0.0027703	0	0
Benin	0.0026121	NA	NA
Malawi	0.0022047	0	0
Central African Republic	0.0021430	0	0
Angola	0.0012983	0	0
Burundi	0.0008948	0	0
Madagascar	0.0007615	0	0
Ethiopia	0.0005493	0	0
Mozambique	0.0003390	0	0
Eritrea	0.0000000	0	0
Lesotho	0.0000000	0	0
Namibia	0.0000000	0	0
Rwanda	0.0000000	0	0
Seychelles	0.0000000	0	0
Uganda	0.0000000	0	0

Doubling time (cases)

Country	Doubling time (days)	95%CI lower	95%CI upper
Sao Tome and Principe	-1.0	NA	NA
Uganda	-1.0	NA	NA
Zimbabwe	4.8	4.0	5.8
South Sudan	5.6	5.2	6.1
Mauritania	6.7	5.8	7.7
Lesotho	7.0	4.4	Inf
Ethiopia	7.7	7.0	8.4
Central African Republic	9.1	8.2	10.1
Madagascar	9.7	NA	NA
Benin	10.1	NA	NA
Gabon	12.4	11.7	13.2
Cameroon	12.9	NA	NA
Mozambique	12.9	10.6	15.9
Democratic Republic of the Congo	13.1	12.3	13.8
South Africa	13.3	13.1	13.5
Kenya	13.6	12.6	14.8
Malawi	14.3	10.6	20.3
Botswana	14.4	8.8	27.8
Namibia	15.2	8.7	41.2
Sierra Leone	15.3	13.8	17.2
Congo	15.8	13.9	18.0
Nigeria	18.1	NA	NA
Zambia	20.3	18.2	22.8
Chad	20.6	18.1	23.9
Comoros	20.7	12.7	42.4
Eswatini	21.5	17.5	27.2
Angola	24.0	16.3	40.6
Mali	26.8	24.1	30.1
Senegal	26.8	NA	NA
Ghana	26.9	25.7	28.3
Guinea	29.7	27.6	31.8
Algeria	30.2	28.9	31.5
Togo	31.1	25.2	40.2
Equatorial Guinea	33.7	29.6	39.2
Cote d'Ivoire	35.7	32.7	39.2
Liberia	43.6	32.7	63.6
Cabo Verde	43.7	34.3	57.3
Rwanda	50.0	38.5	69.2
Guinea-Bissau	65.3	55.2	79.3
Burkina Faso	111.4	86.9	152.1
Gambia	118.9	41.1	Inf
Niger	129.9	100.2	178.6
Mauritius	807.9	NA	NA
Burundi	NA	Inf	Inf
Eritrea	NA	Inf	Inf
Seychelles	NA	Inf	Inf
United Republic of Tanzania	NA	Inf	Inf

Doubling time (deaths)

Country	Doubling time (days)	95%CI lower	95%CI upper
South Sudan	-1.0	NA	NA
Mauritania	3.5	2.1	6.0
Comoros	7.0	4.4	Inf
South Africa	10.0	NA	NA
Benin	12.0	NA	NA
Angola	16.9	4.4	Inf
Cabo Verde	16.9	4.4	Inf
Malawi	16.9	5.3	Inf
Sierra Leone	17.3	11.2	33.1
Senegal	18.5	11.5	36.3
Mali	20.1	13.6	33.6
Nigeria	20.3	16.5	25.5
Congo	20.5	10.3	80.0
Sao Tome and Principe	21.7	NA	NA
Cameroon	25.2	19.2	34.9
Equatorial Guinea	26.6	10.3	Inf
Ethiopia	26.6	7.0	Inf
Liberia	30.3	15.5	118.9
Gabon	31.5	13.2	Inf
Democratic Republic of the Congo	38.8	23.8	83.4
Chad	41.9	24.7	96.2
Guinea	48.5	20.5	Inf
Niger	49.3	28.0	131.1
Kenya	50.9	NA	NA
Algeria	52.5	42.5	68.3
Ghana	52.5	24.7	Inf
Togo	60.6	20.1	Inf
Cote d'Ivoire	72.8	31.5	Inf
Burkina Faso	254.7	89.7	Inf
Botswana	NA	Inf	Inf
Burundi	NA	Inf	Inf
Eswatini	NA	Inf	Inf
Gambia	NA	Inf	Inf
Guinea-Bissau	NA	Inf	Inf
Madagascar	NA	Inf	Inf
Mauritius	NA	Inf	Inf
United Republic of Tanzania	NA	Inf	Inf
Zambia	NA	Inf	Inf
Zimbabwe	NA	Inf	Inf
Central African Republic	NA	NA	NA
Eritrea	NA	NA	NA
Lesotho	NA	NA	NA
Mozambique	NA	NA	NA
Namibia	NA	NA	NA
Rwanda	NA	NA	NA
Seychelles	NA	NA	NA
Uganda	NA	NA	NA