

COVID-19 situation report for WHO Africa Region
19/06/2020

Produced by the TIBA COVID-19 Pandemic Response Unit



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Section 1: Overview of WHO Africa Region 18/06/2020

Overview



Total Reported Cases
191697

Total Reported Deaths
4452

Methods

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

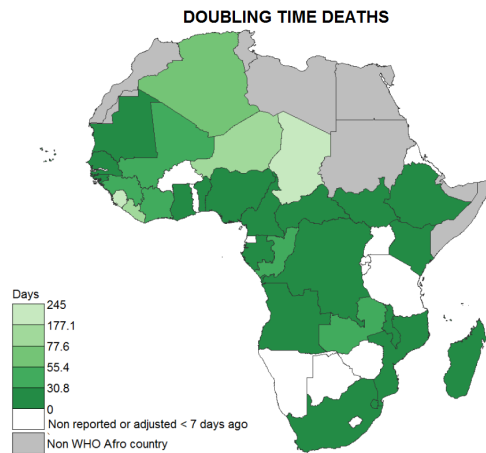
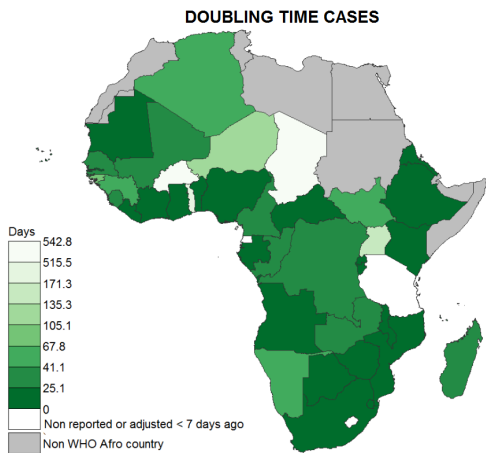
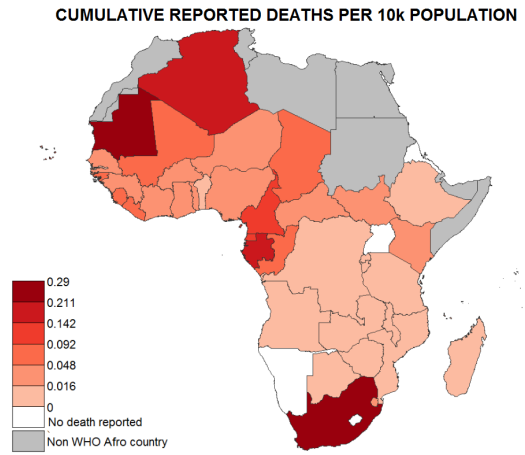
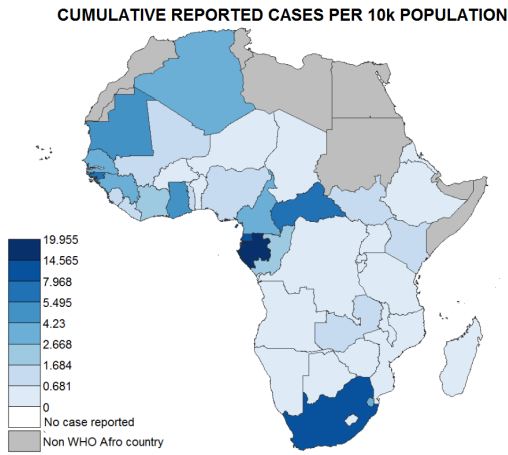
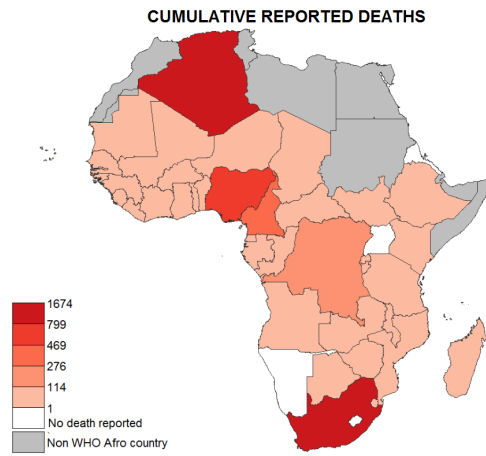
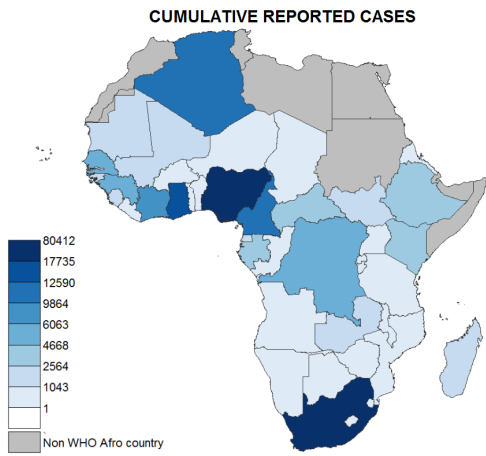
The maps below summarise the in-country situations:

- 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 18/06/2020. 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.

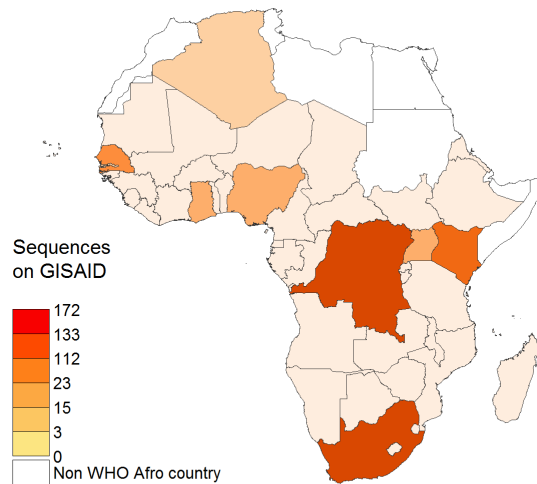
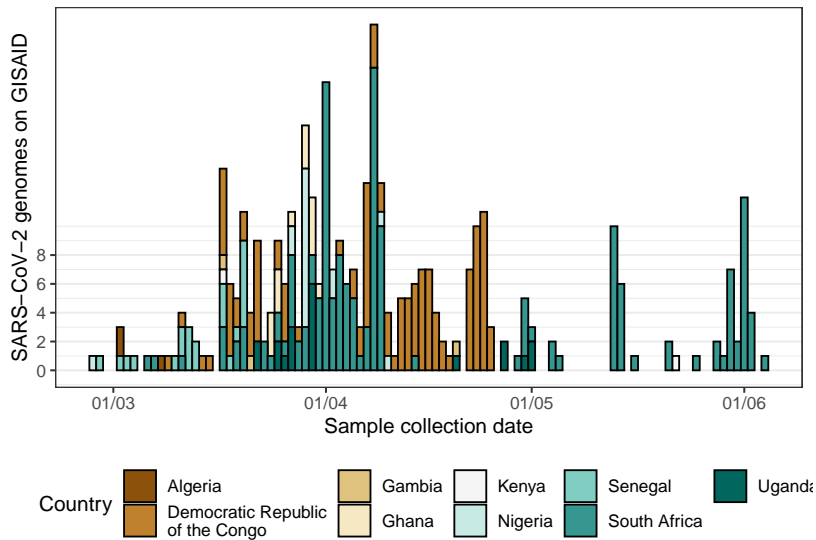
Summary maps



Sequencing

As of 18/06/2020, SARS-CoV-2 genomes have been collected and sequenced from 500 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. 6 genomes from the Democratic Republic of the Congo, 110 genomes from Kenya and 1 genome from Nigeria are removed due to incomplete collection dates.
- Bottom map: SARS-CoV-2 genomes available on GISAID by country.



Section 2: Individual country situations

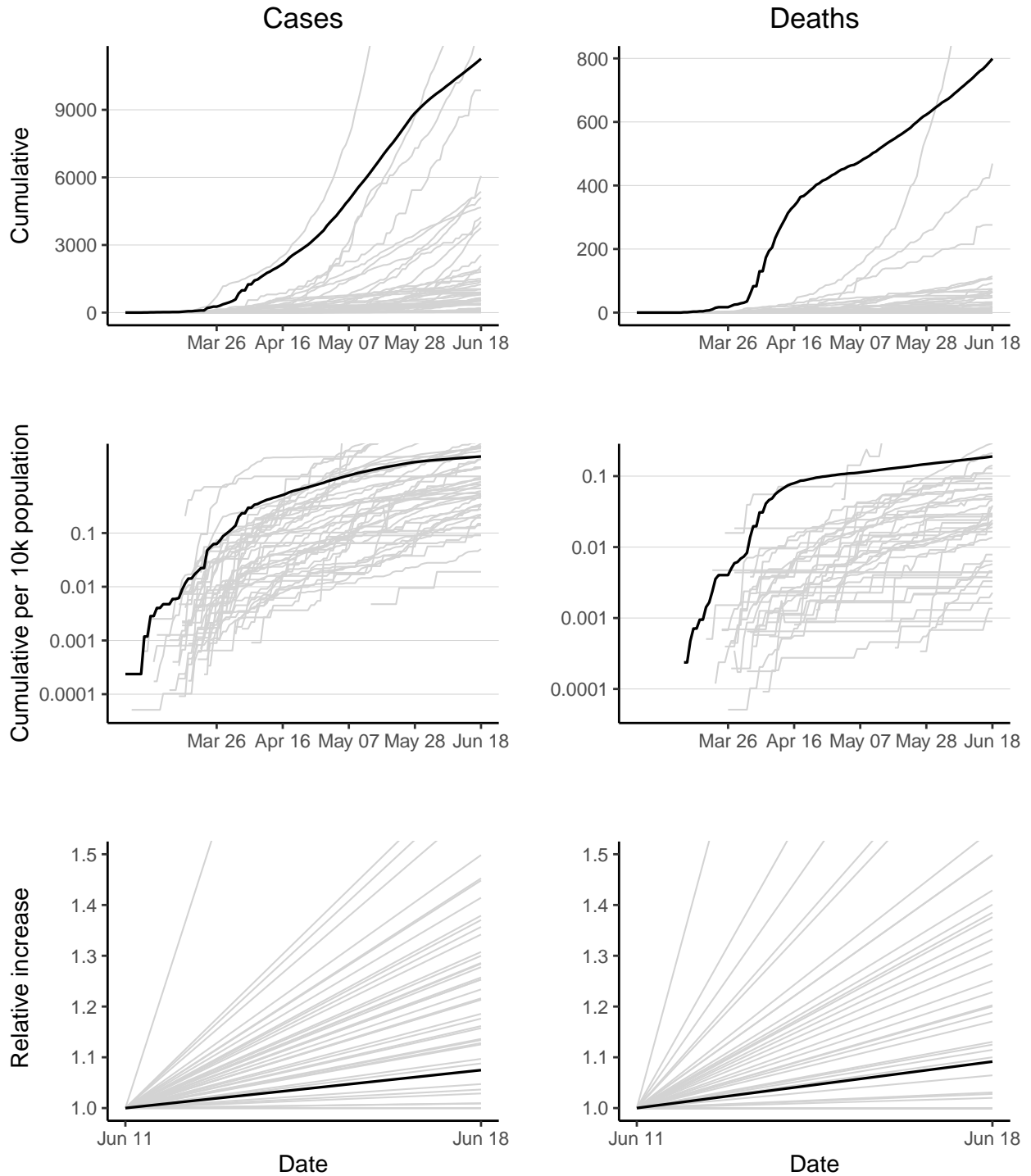
As of 18/06/2020, each panel below shows for each country:

- 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 18/06/2020. A relative increase of 2 corresponds to a doubling time of exactly 7 days.

Caveats;

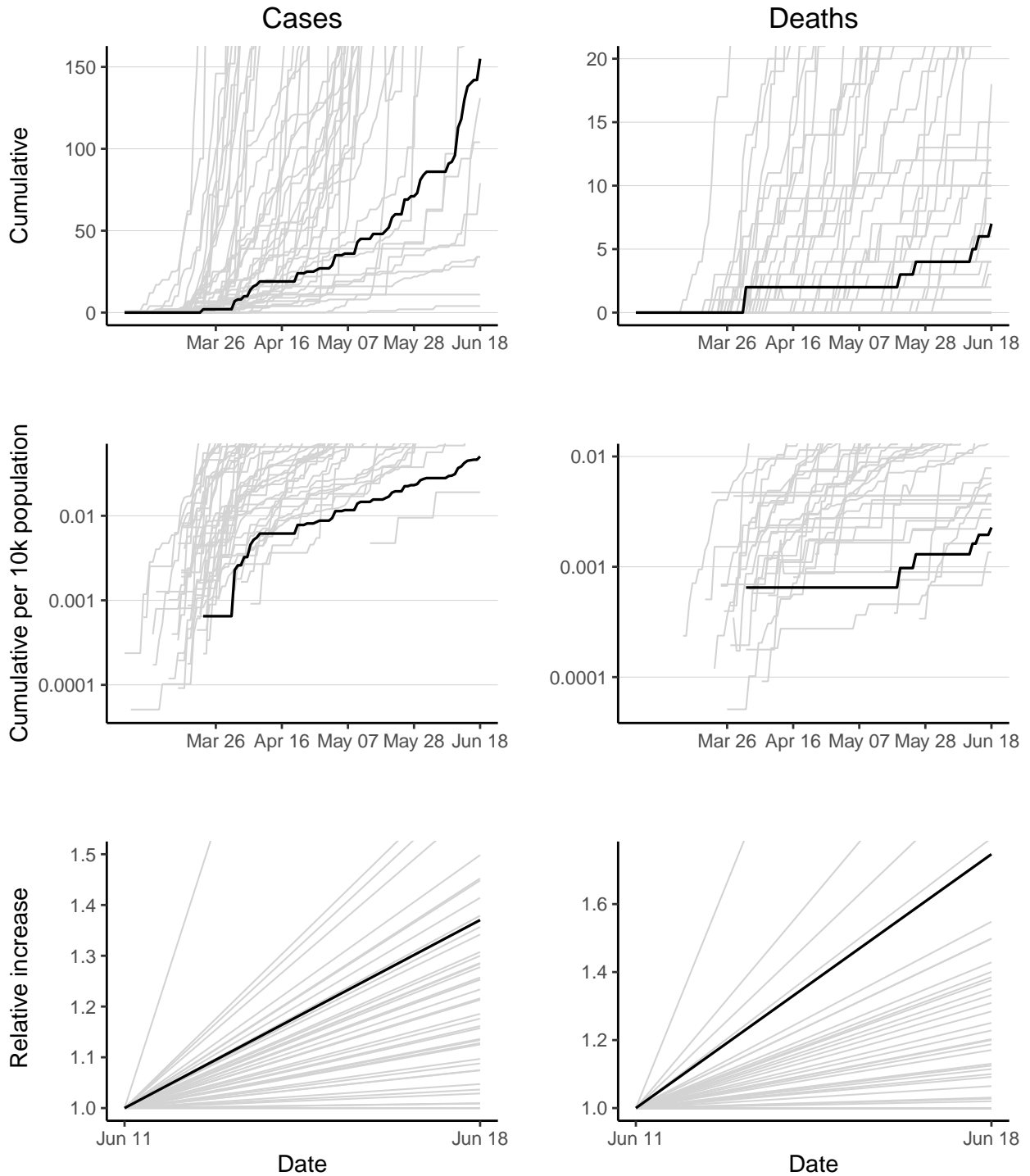
- Retrospective changes in reporting policy may cause cumulative deaths/cases counts to drop as described in WHO Sit Rep Number 105, published on 04/05/2020.

Algeria



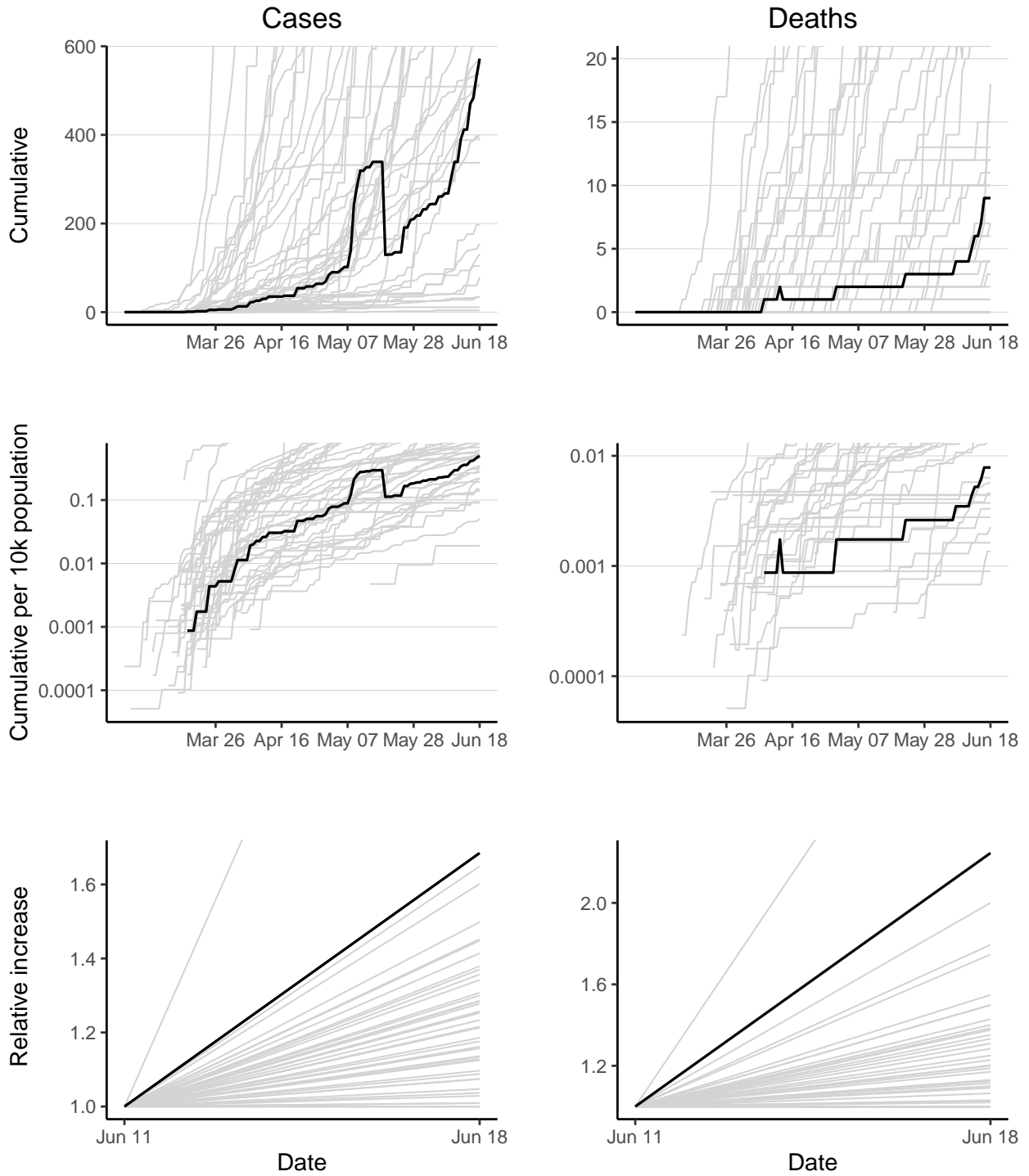
Algeria has 11268 reported case(s) (4th in the region) and 799 reported death(s) (2nd). Cumulative counts per 10,000 population of reported cases and deaths are 2.7 (14th) and 0.19 (4th) respectively. The doubling times of reported cases and deaths over the last 7 days are 67.3 days (35th) and 55.4 days (27th).

Angola



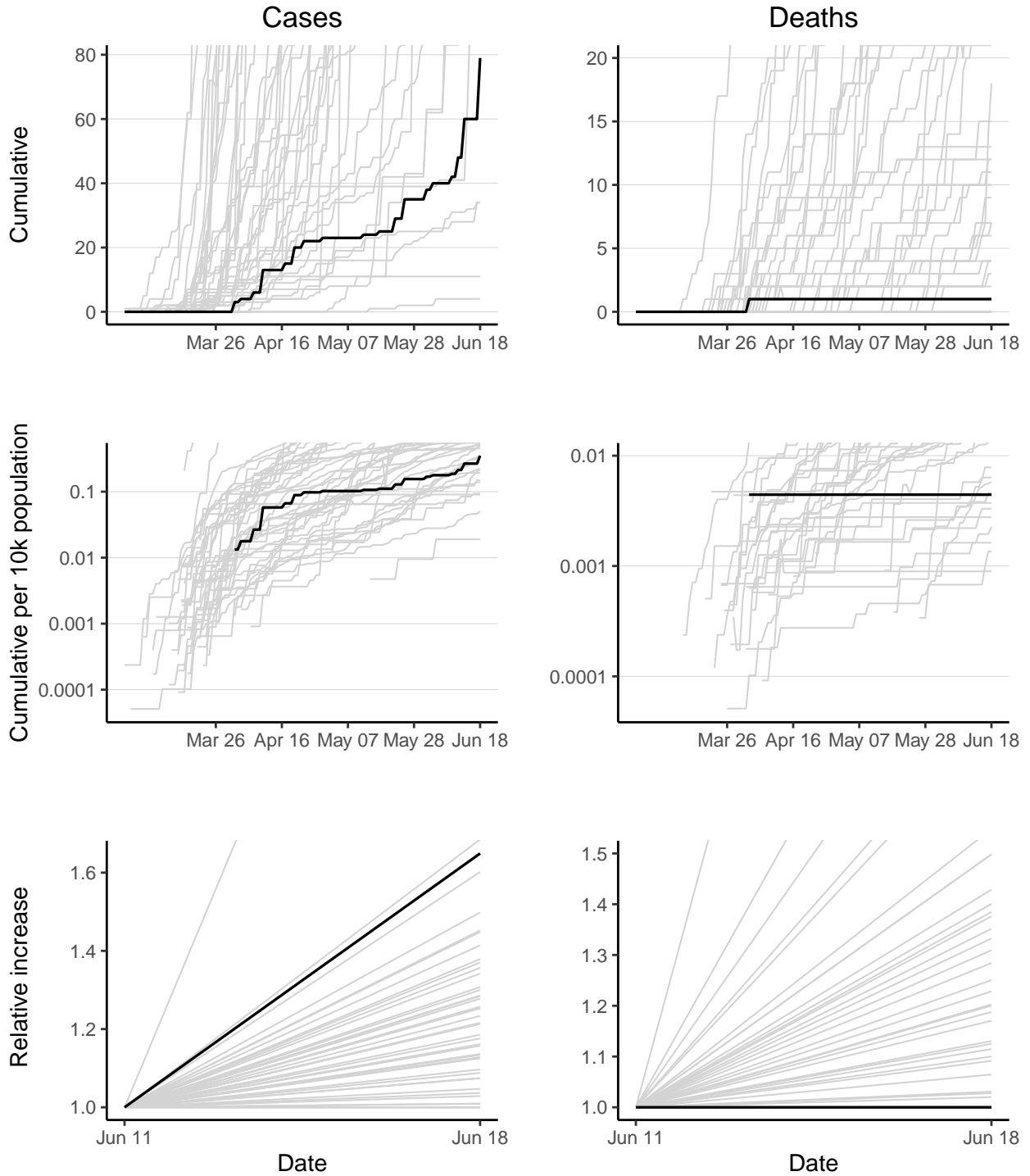
Angola has 155 reported case(s) (40th in the region) and 7 reported death(s) (32nd). Cumulative counts per 10,000 population of reported cases and deaths are 0.05 (46th) and 0.0023 (39th) respectively. The doubling times of reported cases and deaths over the last 7 days are 15.4 days (10th) and 8.7 days (5th).

Benin



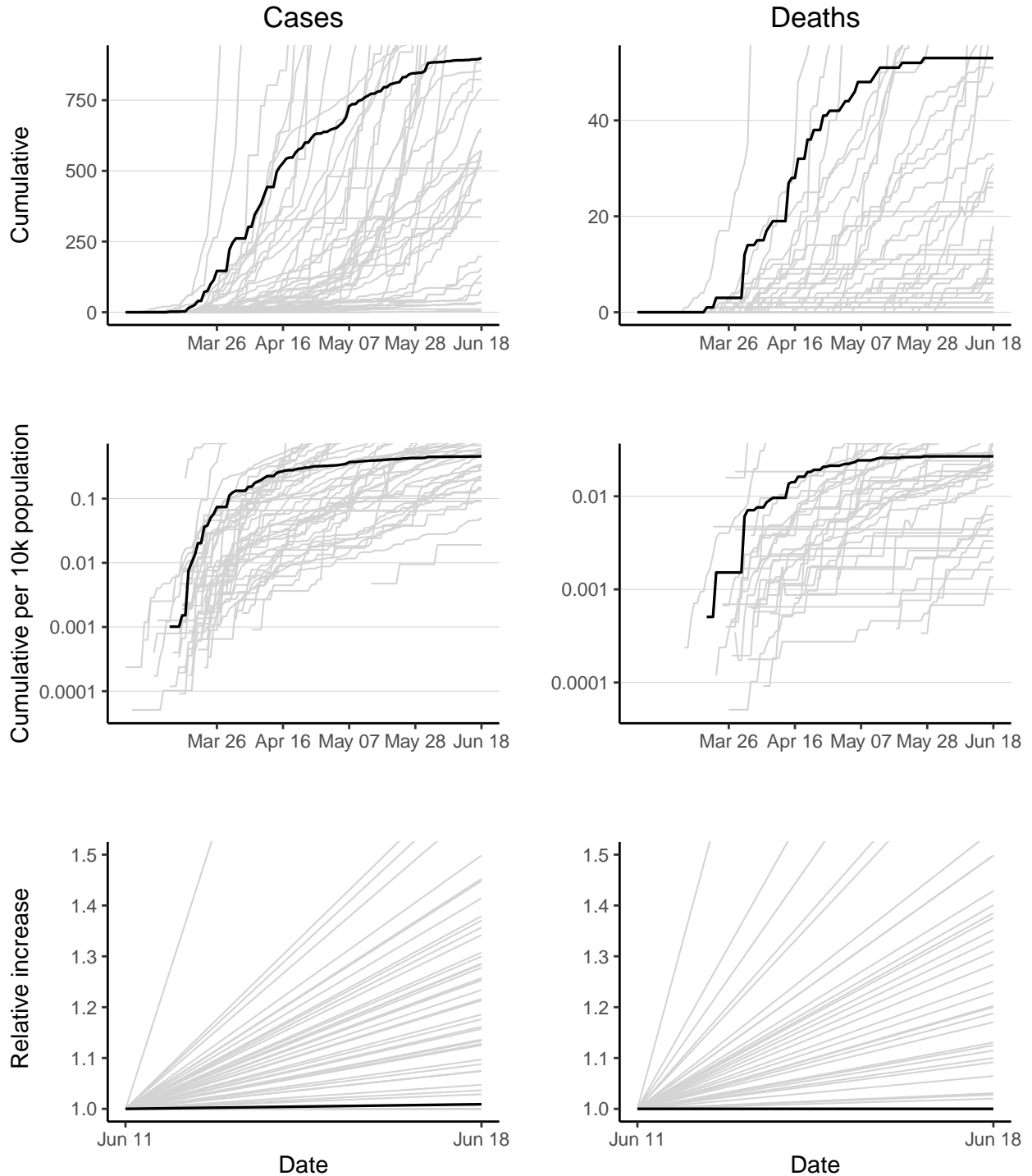
Benin has 572 reported case(s) (30th in the region) and 9 reported death(s) (31st). Cumulative counts per 10,000 population of reported cases and deaths are 0.5 (32nd) and 0.0078 (30th) respectively. The doubling times of reported cases and deaths over the last 7 days are 9.3 days (2nd) and 6 days (2nd).

Botswana



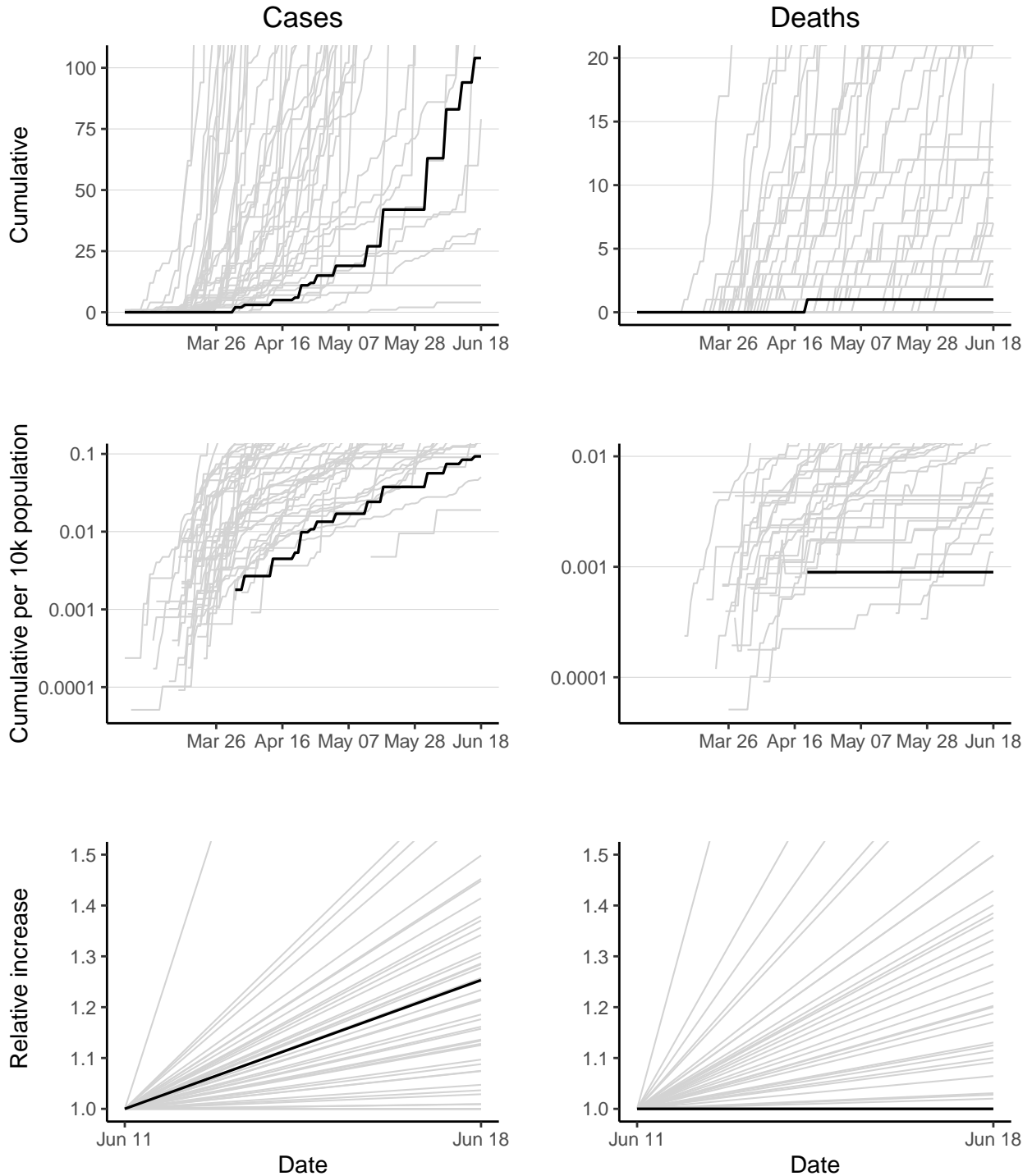
Botswana has 79 reported case(s) (43rd in the region) and 1 reported death(s) (40th). Cumulative counts per 10,000 population of reported cases and deaths are 0.35 (35th) and 0.0044 (34th) respectively. The doubling time of reported cases over the last 7 days is 9.7 days (3rd). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Burkina Faso



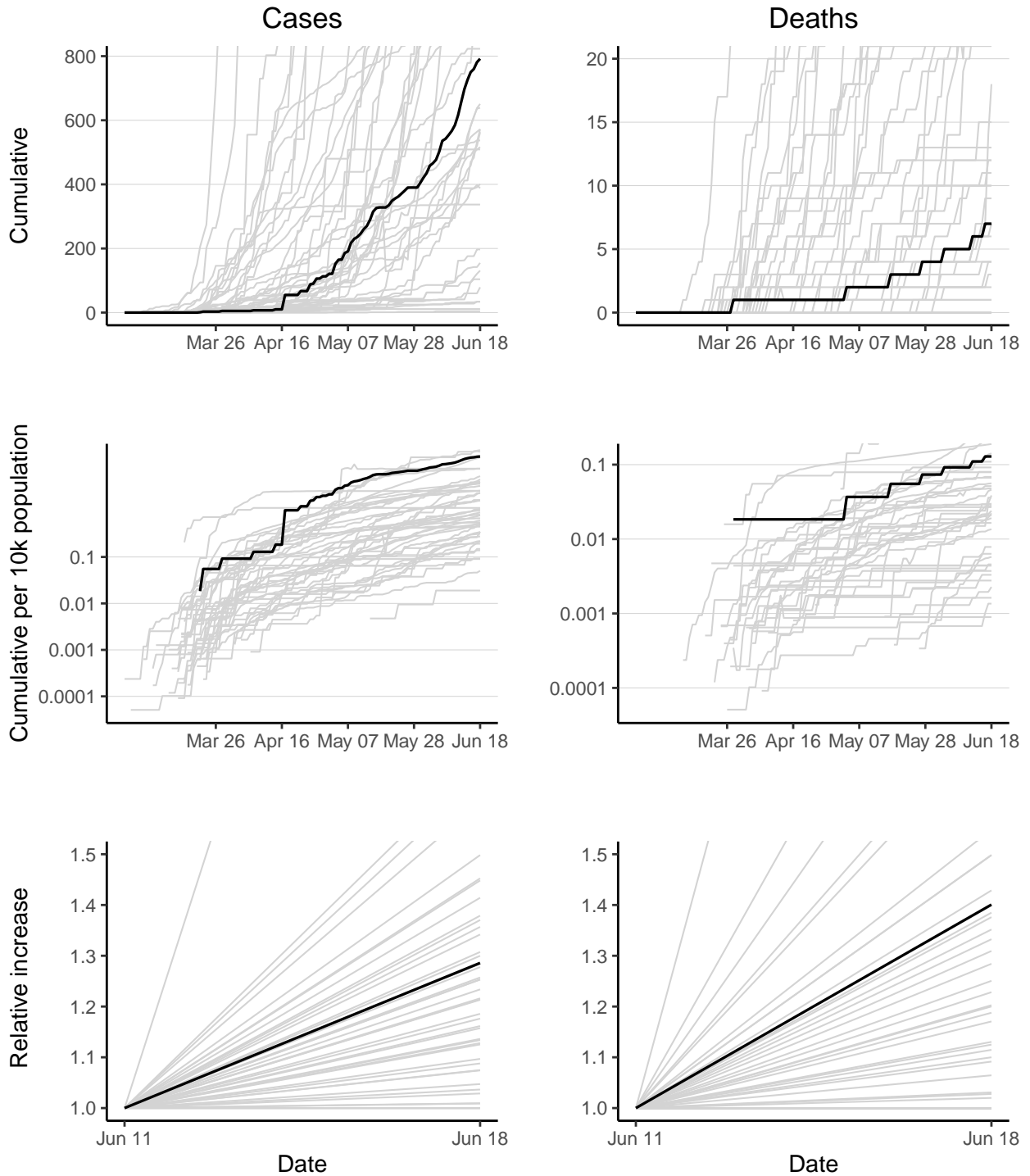
Burkina Faso has 899 reported case(s) (23rd in the region) and 53 reported death(s) (14th). Cumulative counts per 10,000 population of reported cases and deaths are 0.46 (33rd) and 0.027 (22nd) respectively. The doubling time of reported cases over the last 7 days is 542.8 days (41st). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Burundi



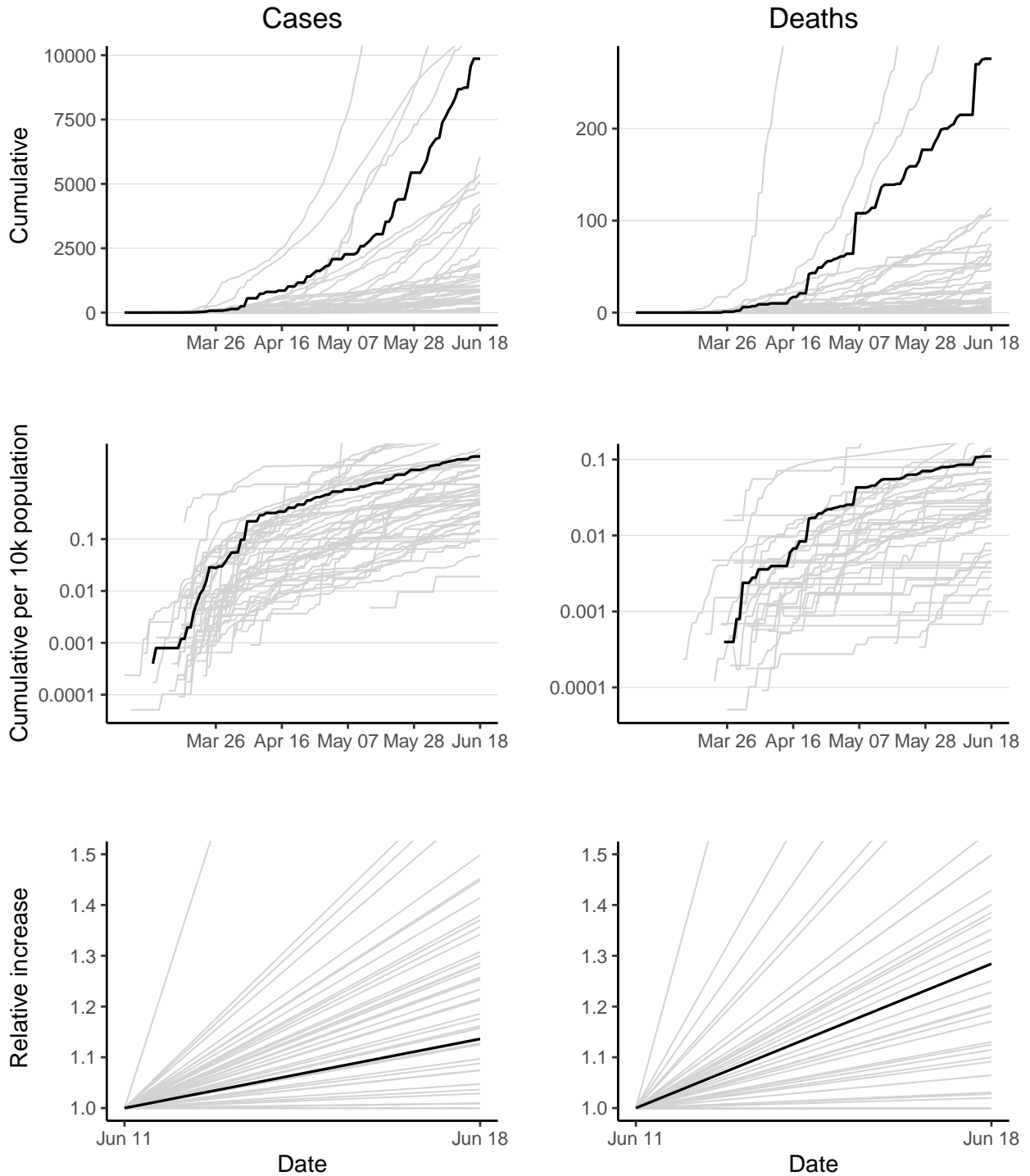
Burundi has 104 reported case(s) (42nd in the region) and 1 reported death(s) (41st). Cumulative counts per 10,000 population of reported cases and deaths are 0.093 (44th) and 0.00089 (42nd) respectively. The doubling time of reported cases over the last 7 days is 21.5 days (19th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Cabo Verde



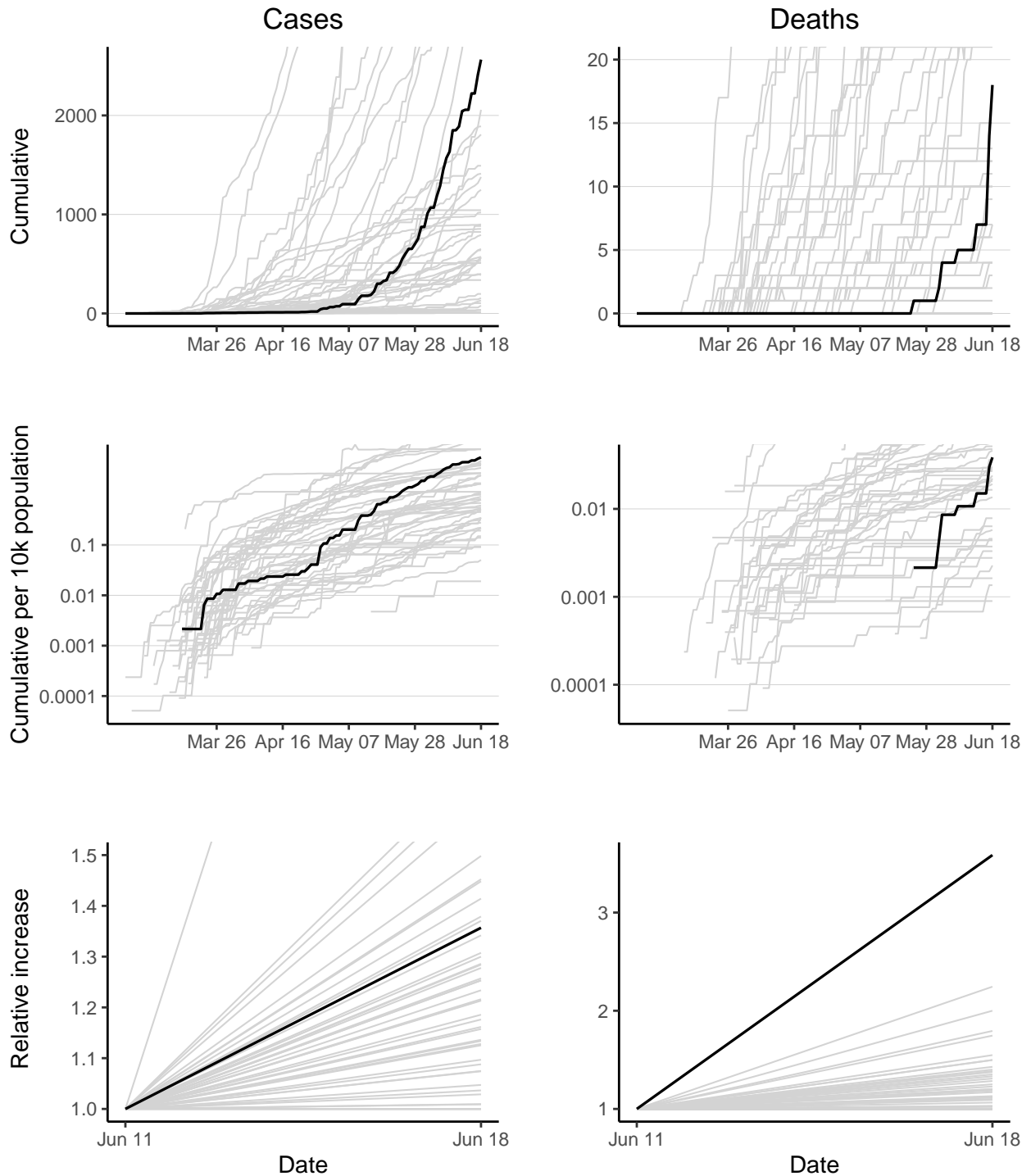
Cabo Verde has 792 reported case(s) (27th in the region) and 7 reported death(s) (33rd). Cumulative counts per 10,000 population of reported cases and deaths are 15 (3rd) and 0.13 (6th) respectively. The doubling times of reported cases and deaths over the last 7 days are 19.3 days (15th) and 14.4 days (10th).

Cameroon



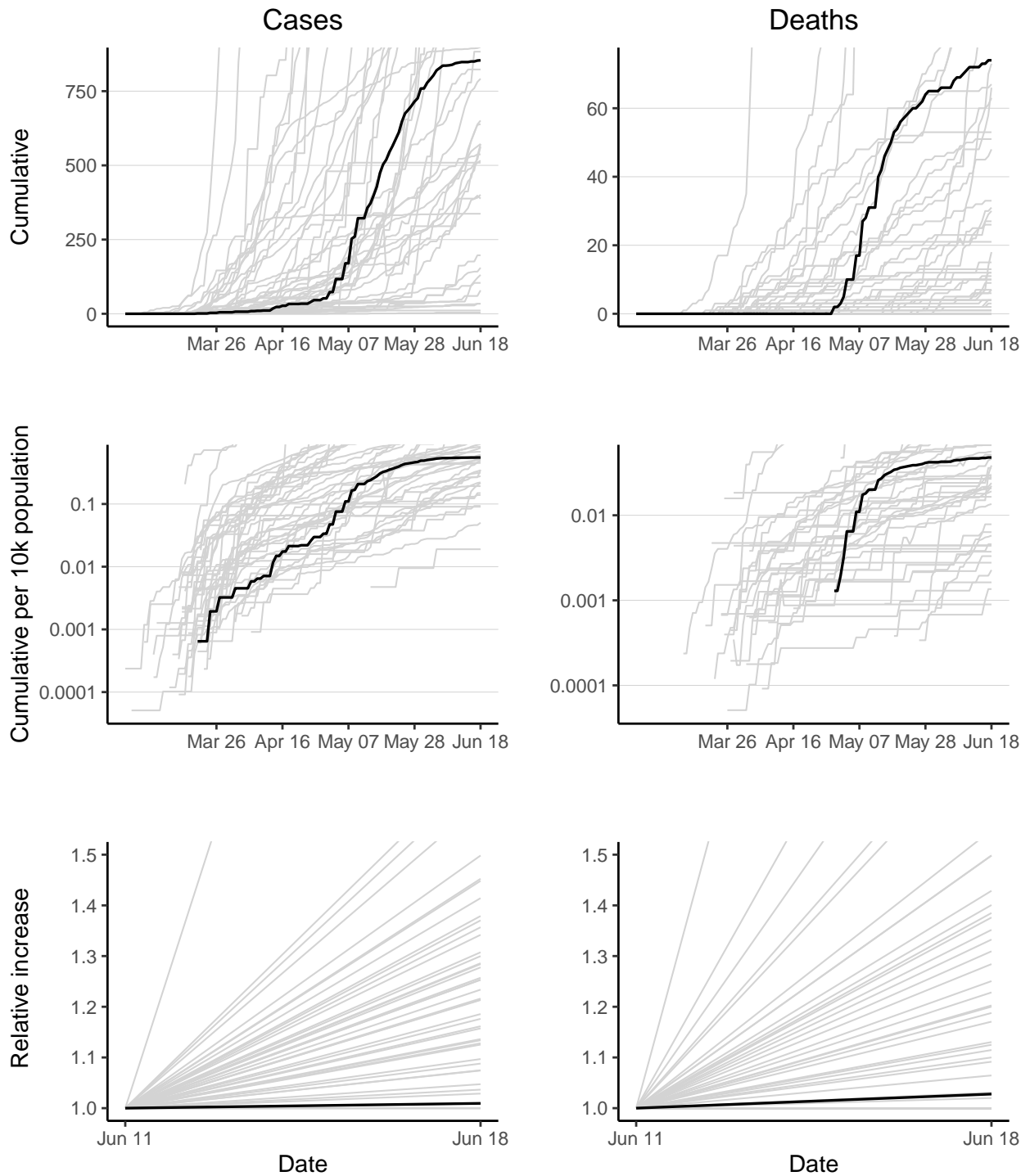
Cameroon has 9864 reported case(s) (5th in the region) and 276 reported death(s) (4th). Cumulative counts per 10,000 population of reported cases and deaths are 3.9 (11th) and 0.11 (7th) respectively. The doubling times of reported cases and deaths over the last 7 days are 38 days (29th) and 19.4 days (16th).

Central African Republic



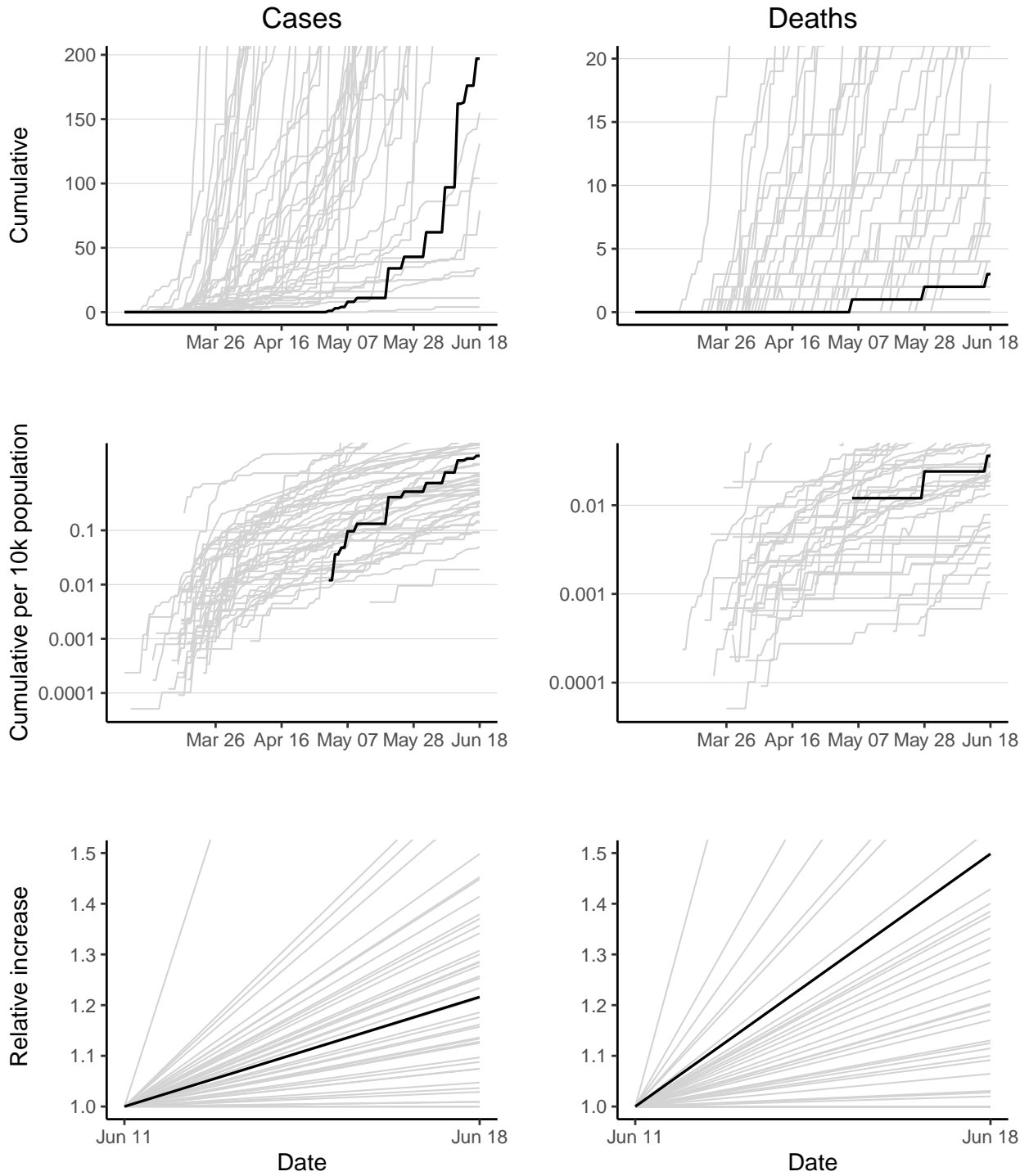
Central African Republic has 2564 reported case(s) (13th in the region) and 18 reported death(s) (23rd). Cumulative counts per 10,000 population of reported cases and deaths are 5.5 (7th) and 0.039 (17th) respectively. The doubling times of reported cases and deaths over the last 7 days are 15.9 days (11th) and 3.8 days (1st).

Chad



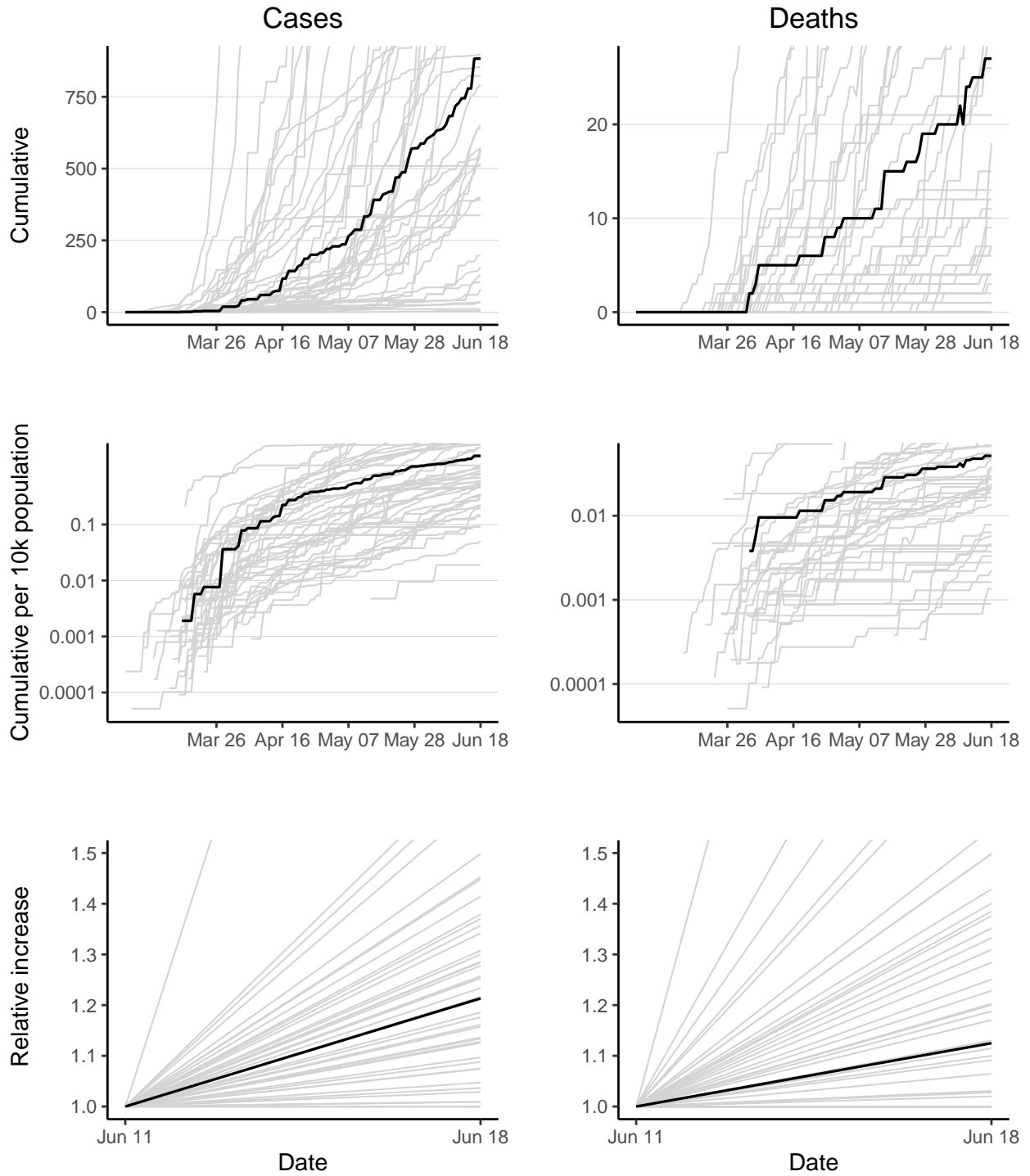
Chad has 854 reported case(s) (25th in the region) and 74 reported death(s) (9th). Cumulative counts per 10,000 population of reported cases and deaths are 0.55 (29th) and 0.048 (15th) respectively. The doubling times of reported cases and deaths over the last 7 days are 515.5 days (40th) and 177.1 days (30th).

Comoros



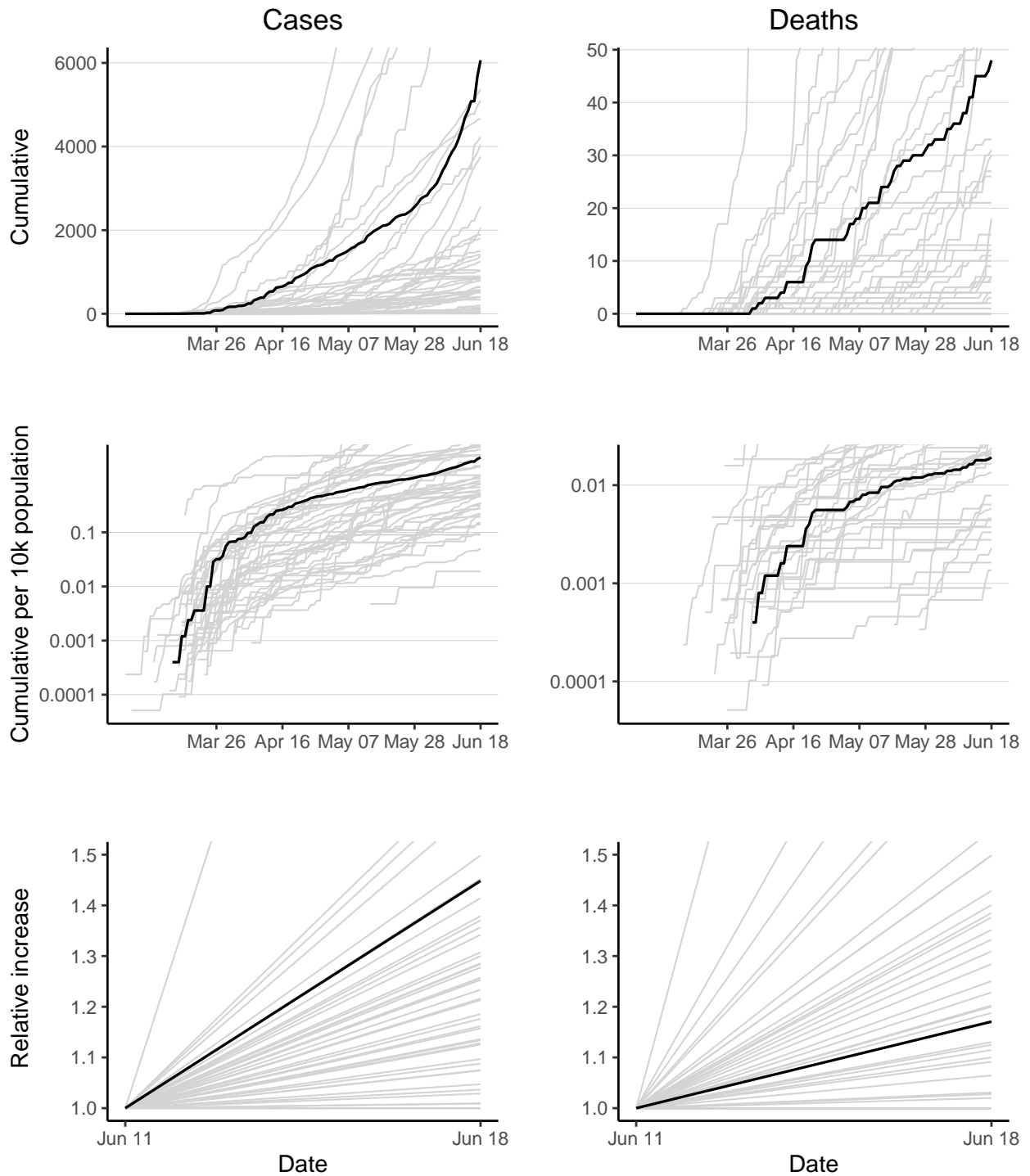
Comoros has 197 reported case(s) (39th in the region) and 3 reported death(s) (38th). Cumulative counts per 10,000 population of reported cases and deaths are 2.4 (17th) and 0.036 (18th) respectively. The doubling times of reported cases and deaths over the last 7 days are 24.8 days (22nd) and 12 days (7th).

Congo



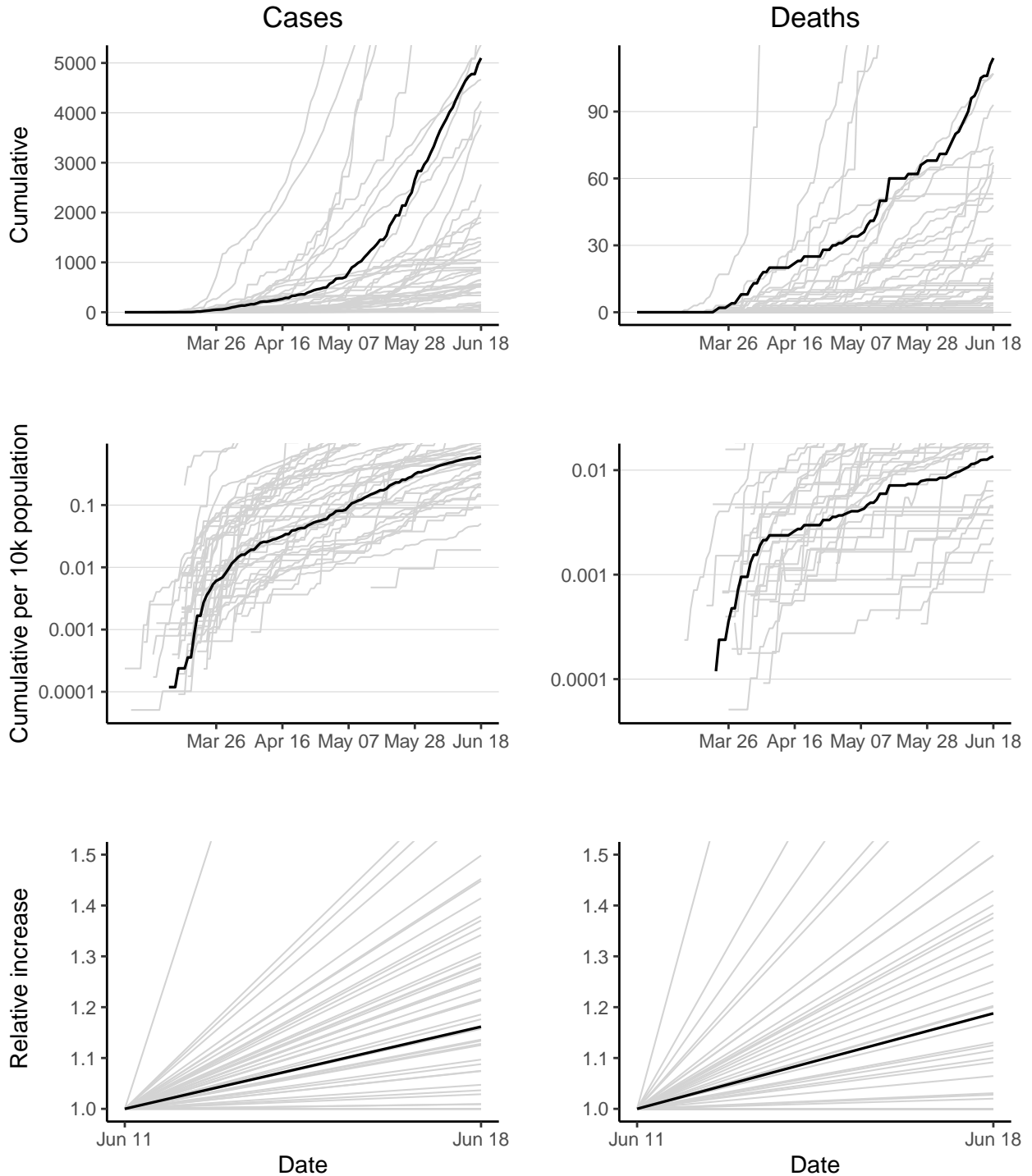
Congo has 883 reported case(s) (24th in the region) and 27 reported death(s) (20th). Cumulative counts per 10,000 population of reported cases and deaths are 1.7 (18th) and 0.051 (14th) respectively. The doubling times of reported cases and deaths over the last 7 days are 25.1 days (24th) and 41.2 days (24th).

Cote d'Ivoire



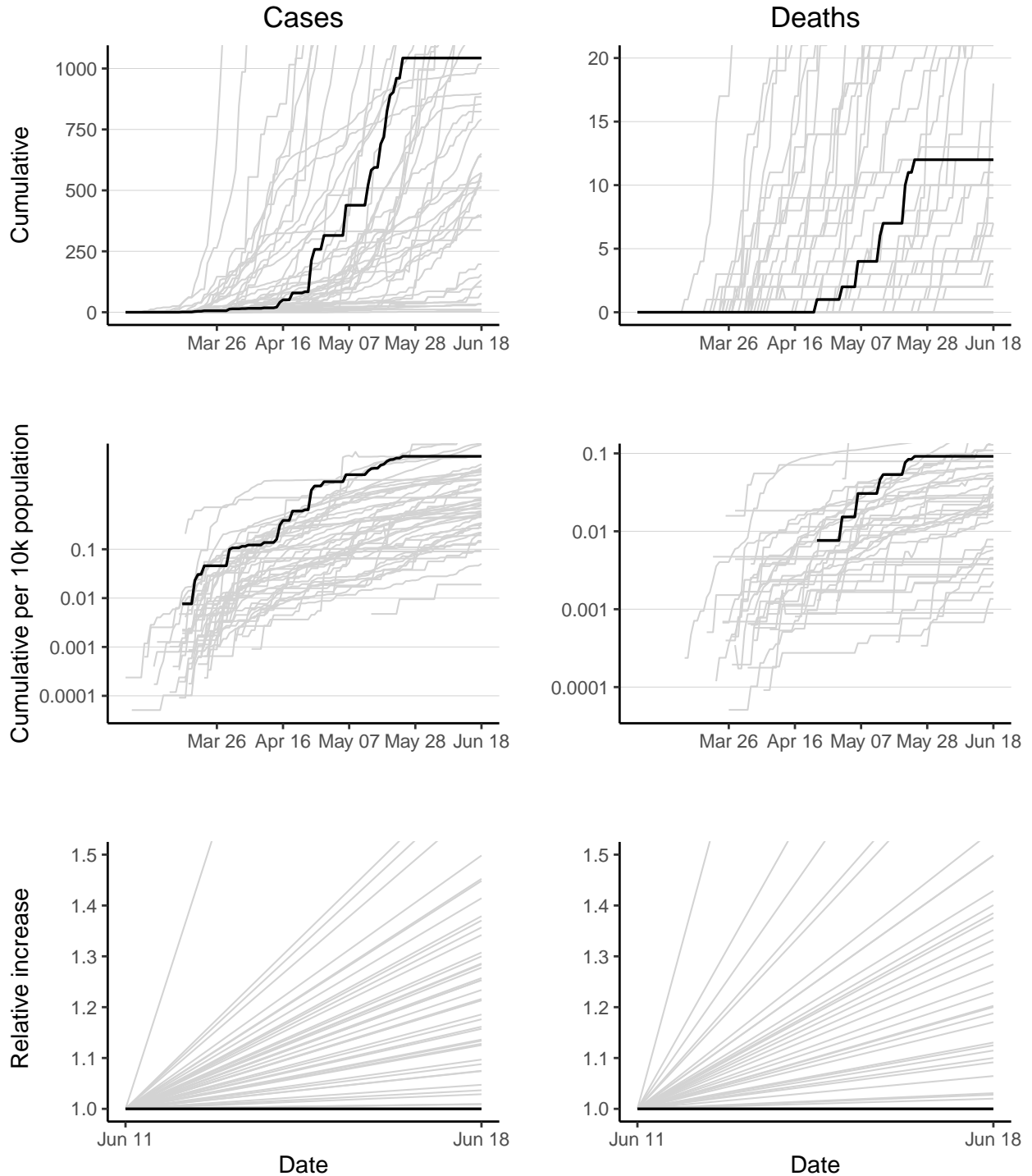
Cote d'Ivoire has 6063 reported case(s) (6th in the region) and 48 reported death(s) (16th). Cumulative counts per 10,000 population of reported cases and deaths are 2.4 (16th) and 0.019 (27th) respectively. The doubling times of reported cases and deaths over the last 7 days are 13.1 days (7th) and 30.8 days (22nd).

Democratic Republic of the Congo



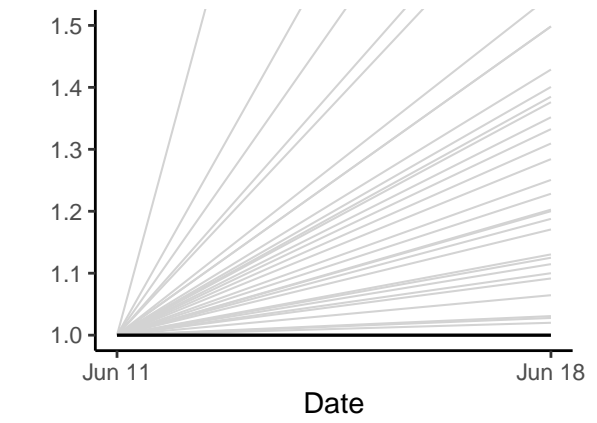
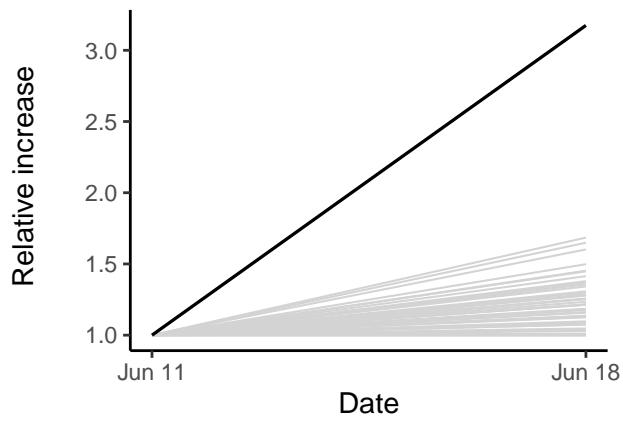
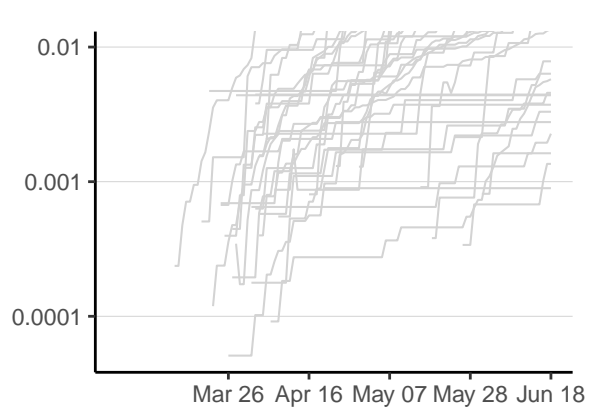
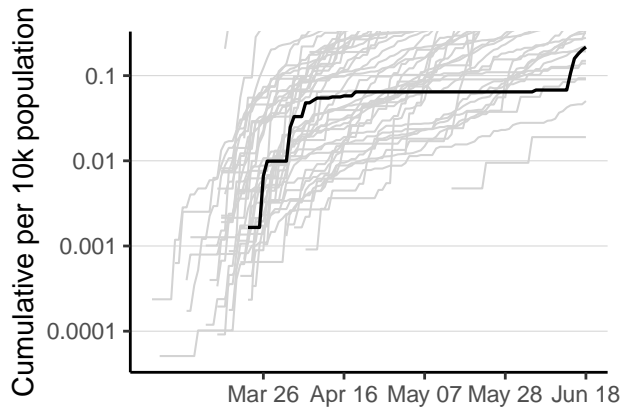
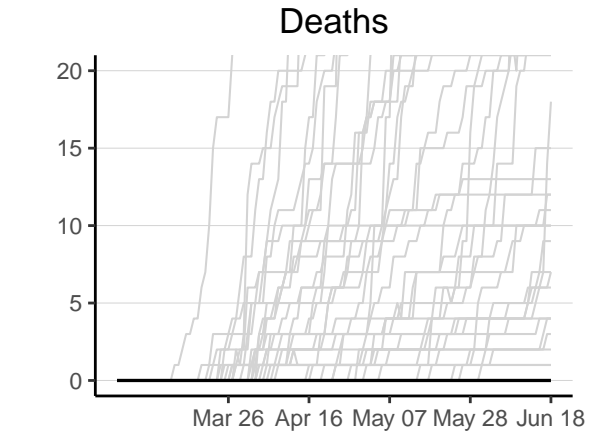
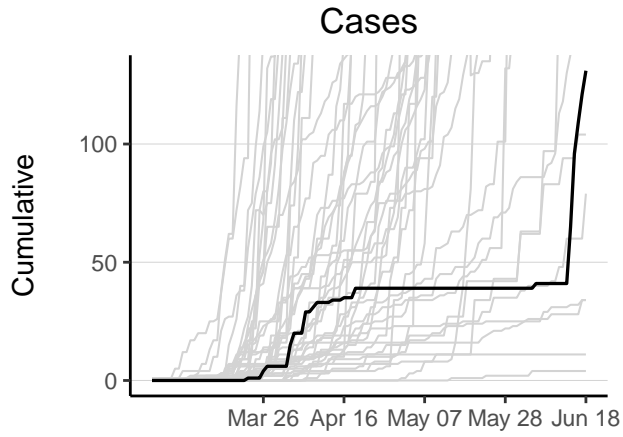
Democratic Republic of the Congo has 5099 reported case(s) (8th in the region) and 114 reported death(s) (5th). Cumulative counts per 10,000 population of reported cases and deaths are 0.61 (28th) and 0.014 (29th) respectively. The doubling times of reported cases and deaths over the last 7 days are 32.4 days (27th) and 28.2 days (21st).

Equatorial Guinea



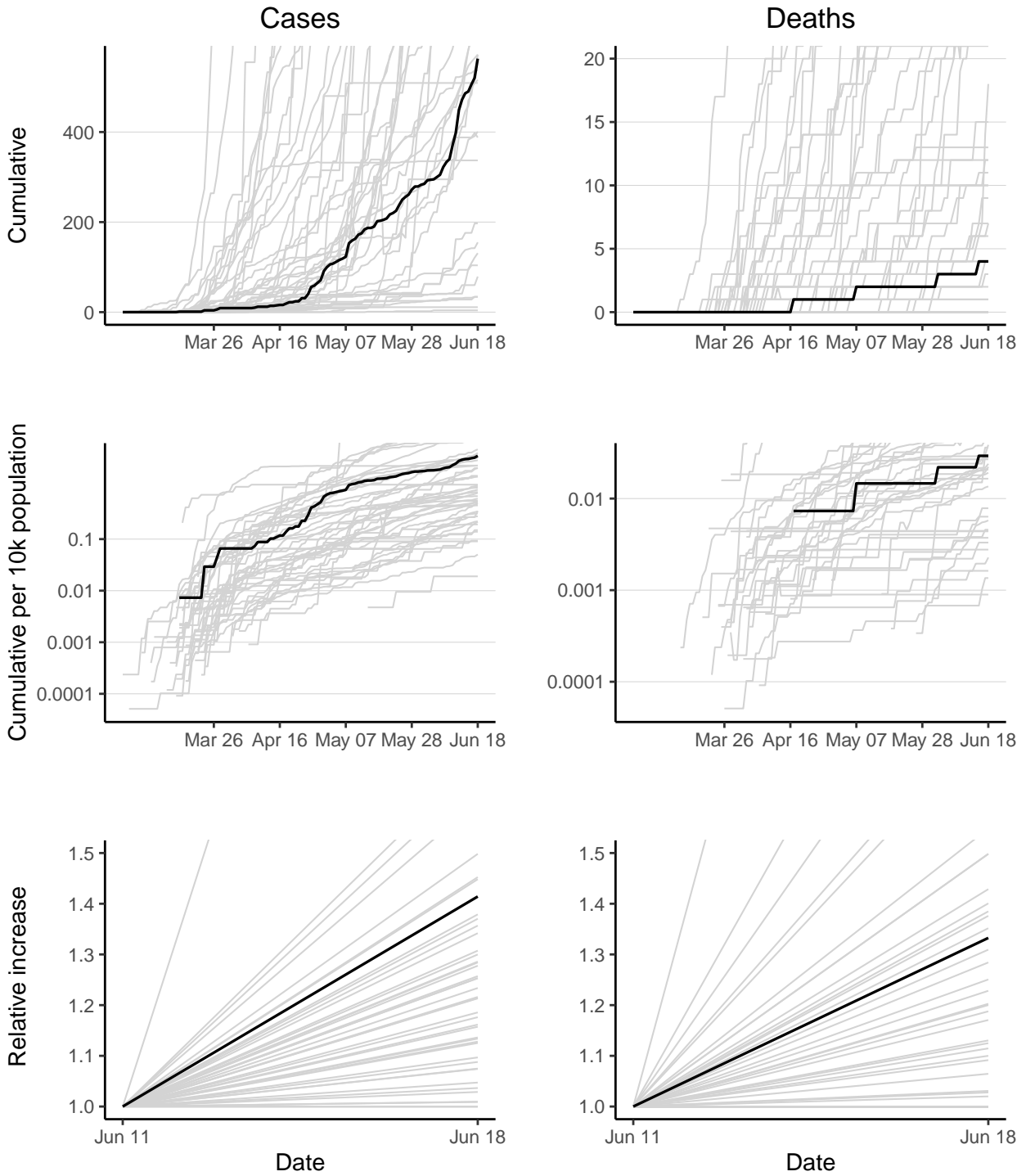
Equatorial Guinea has 1043 reported case(s) (21st in the region) and 12 reported death(s) (26th). Cumulative counts per 10,000 population of reported cases and deaths are 8 (5th) and 0.092 (8th) respectively. The doubling time of reported cases cannot be calculated as no new cases have been reported in last 7 days. The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Eritrea



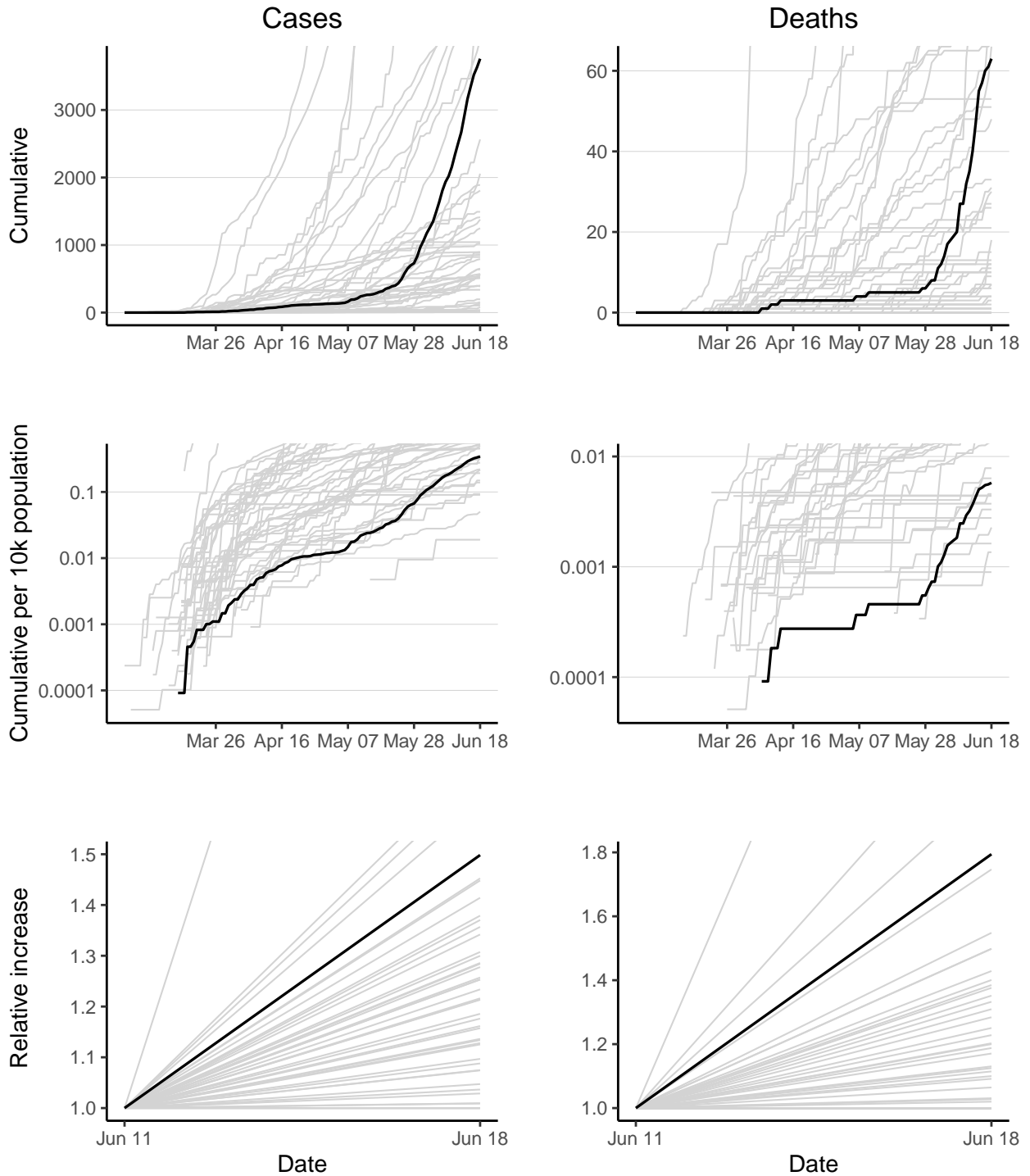
Eritrea has 131 reported case(s) (41st in the region) and 0 reported death(s) (43rd). Cumulative counts per 10,000 population of reported cases and deaths are 0.22 (40th) and 0 (43rd) respectively. The doubling time of reported cases over the last 7 days is 4.2 days (1st). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Eswatini



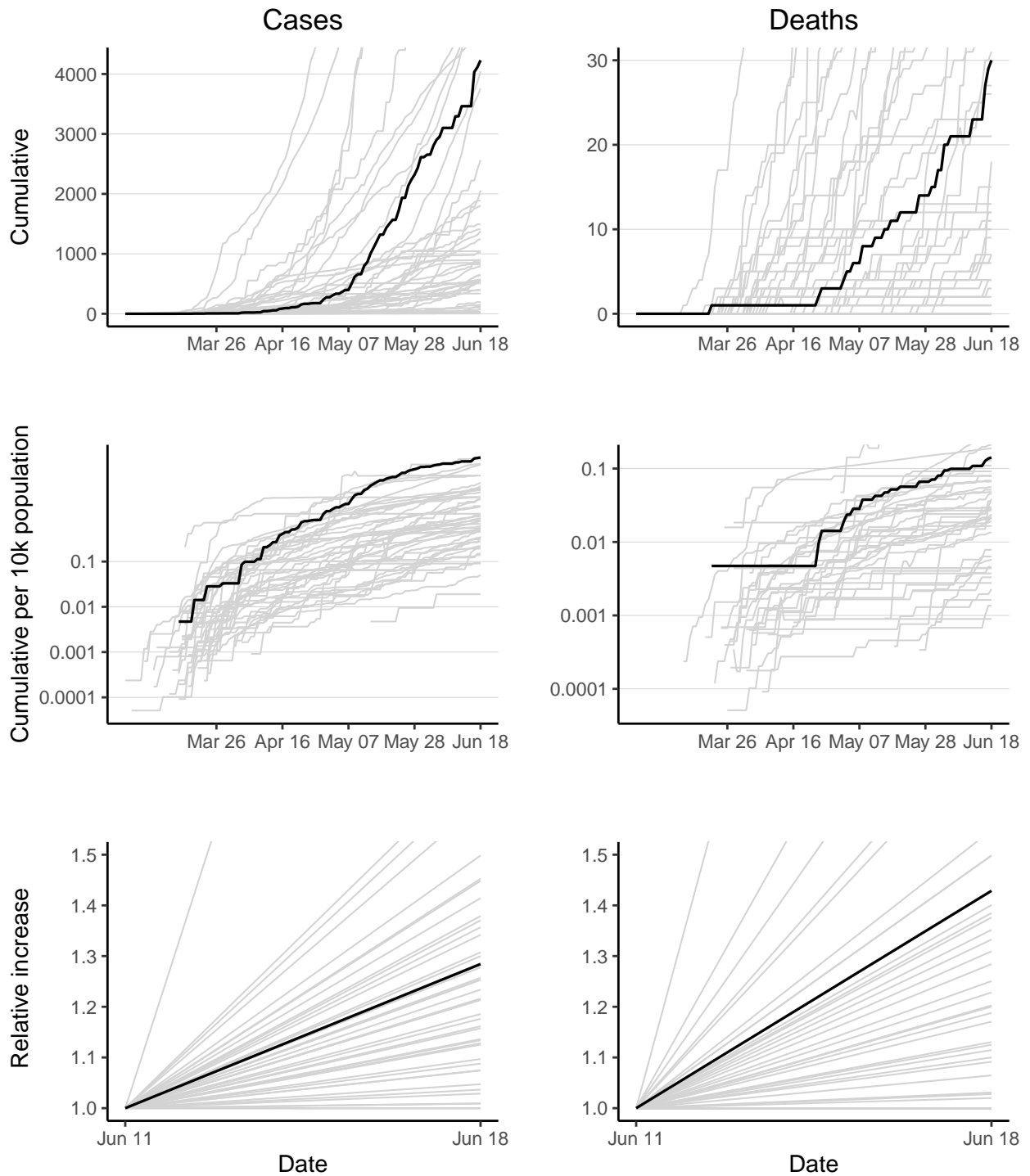
Eswatini has 563 reported case(s) (32nd in the region) and 4 reported death(s) (35th). Cumulative counts per 10,000 population of reported cases and deaths are 4.1 (10th) and 0.029 (20th) respectively. The doubling times of reported cases and deaths over the last 7 days are 14 days (8th) and 16.9 days (14th).

Ethiopia



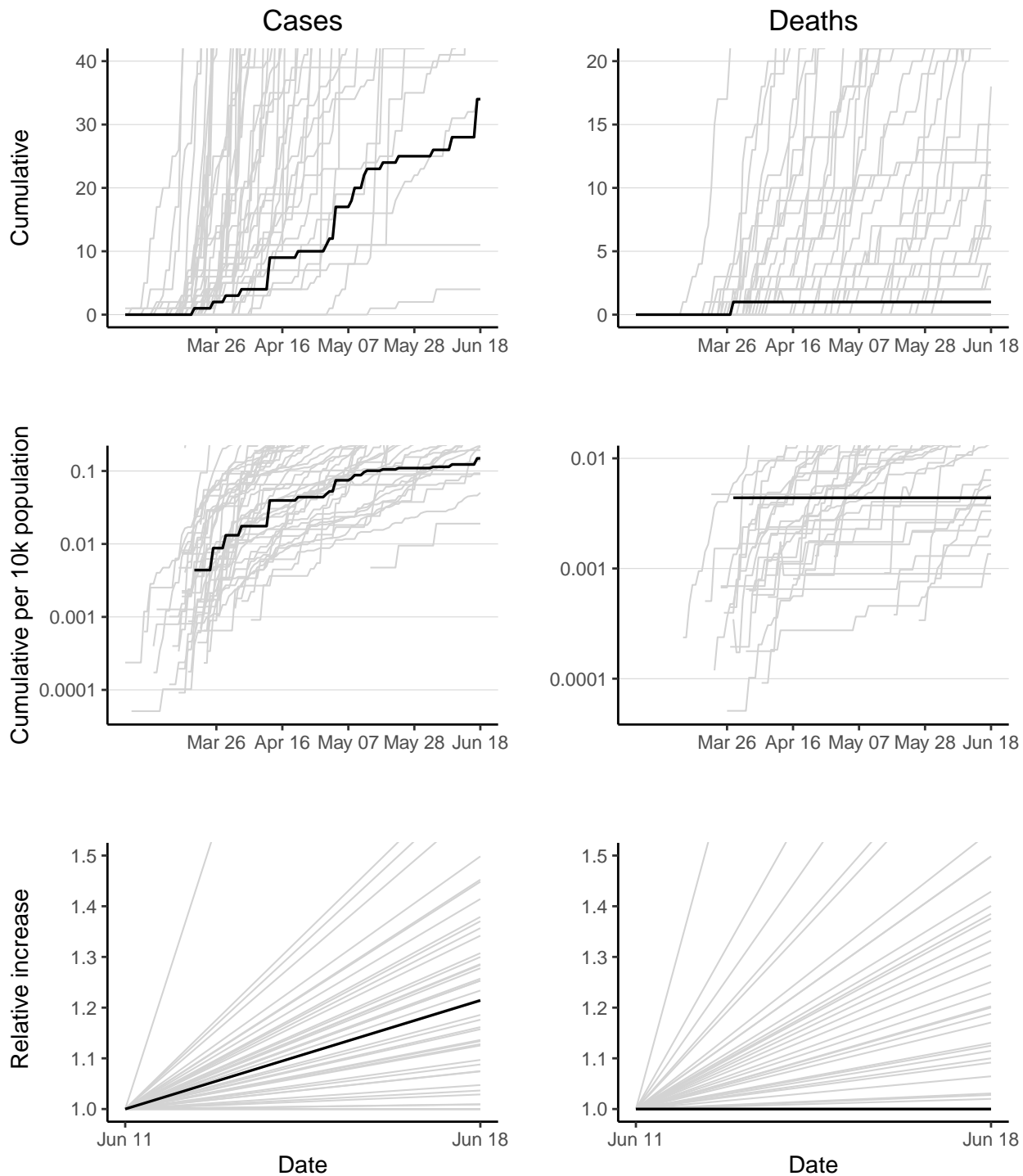
Ethiopia has 3759 reported case(s) (12th in the region) and 63 reported death(s) (13th). Cumulative counts per 10,000 population of reported cases and deaths are 0.34 (36th) and 0.0058 (32nd) respectively. The doubling times of reported cases and deaths over the last 7 days are 12 days (5th) and 8.3 days (4th).

Gabon



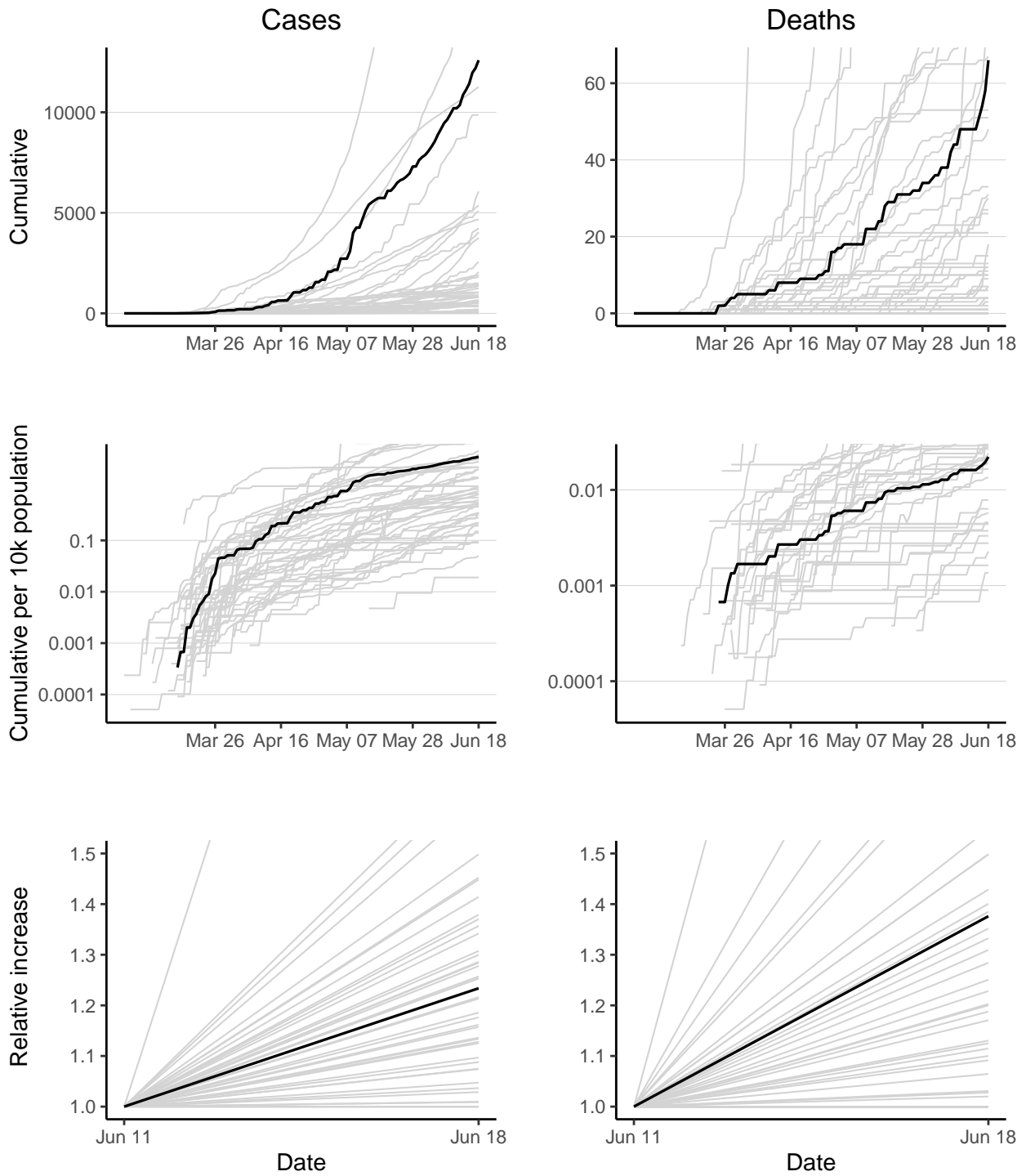
Gabon has 4229 reported case(s) (10th in the region) and 30 reported death(s) (19th). Cumulative counts per 10,000 population of reported cases and deaths are 20 (1st) and 0.14 (5th) respectively. The doubling times of reported cases and deaths over the last 7 days are 19.4 days (16th) and 13.6 days (9th).

Gambia



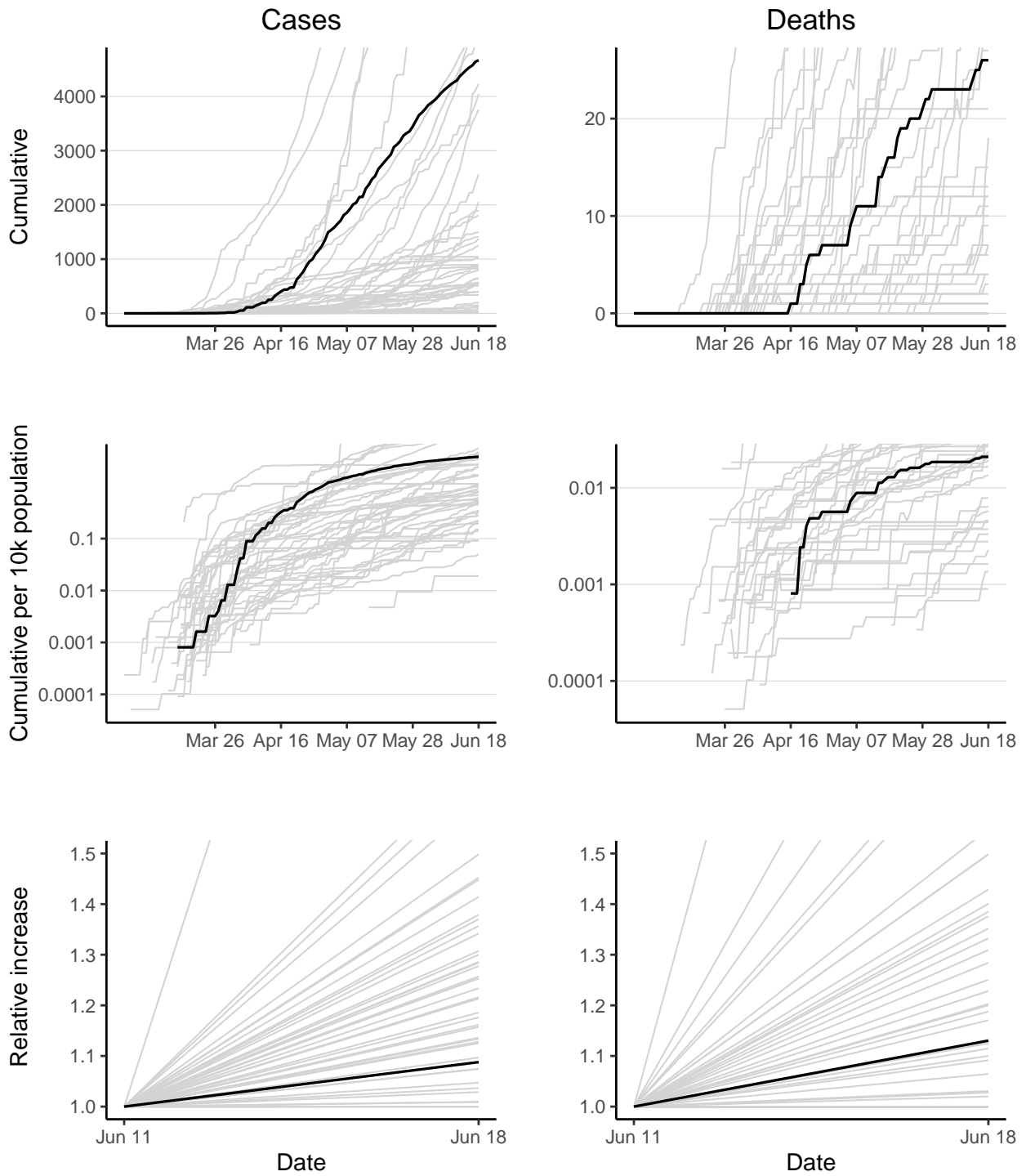
Gambia has 34 reported case(s) (44th in the region) and 1 reported death(s) (42nd). Cumulative counts per 10,000 population of reported cases and deaths are 0.15 (42nd) and 0.0044 (35th) respectively. The doubling time of reported cases over the last 7 days is 25 days (23rd). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Ghana



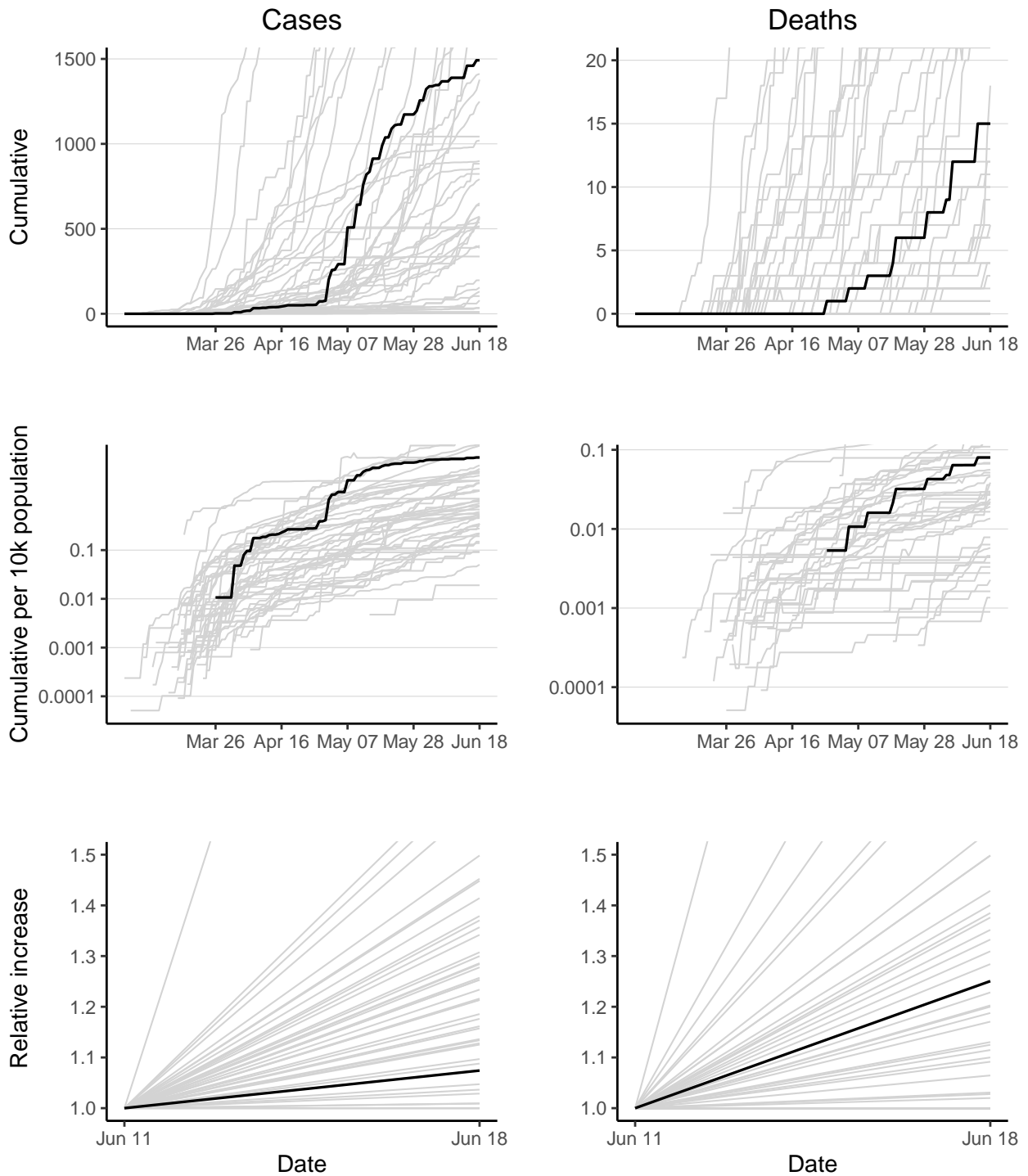
Ghana has 12590 reported case(s) (3rd in the region) and 66 reported death(s) (12th). Cumulative counts per 10,000 population of reported cases and deaths are 4.2 (9th) and 0.022 (24th) respectively. The doubling times of reported cases and deaths over the last 7 days are 23.1 days (21st) and 15.2 days (12th).

Guinea



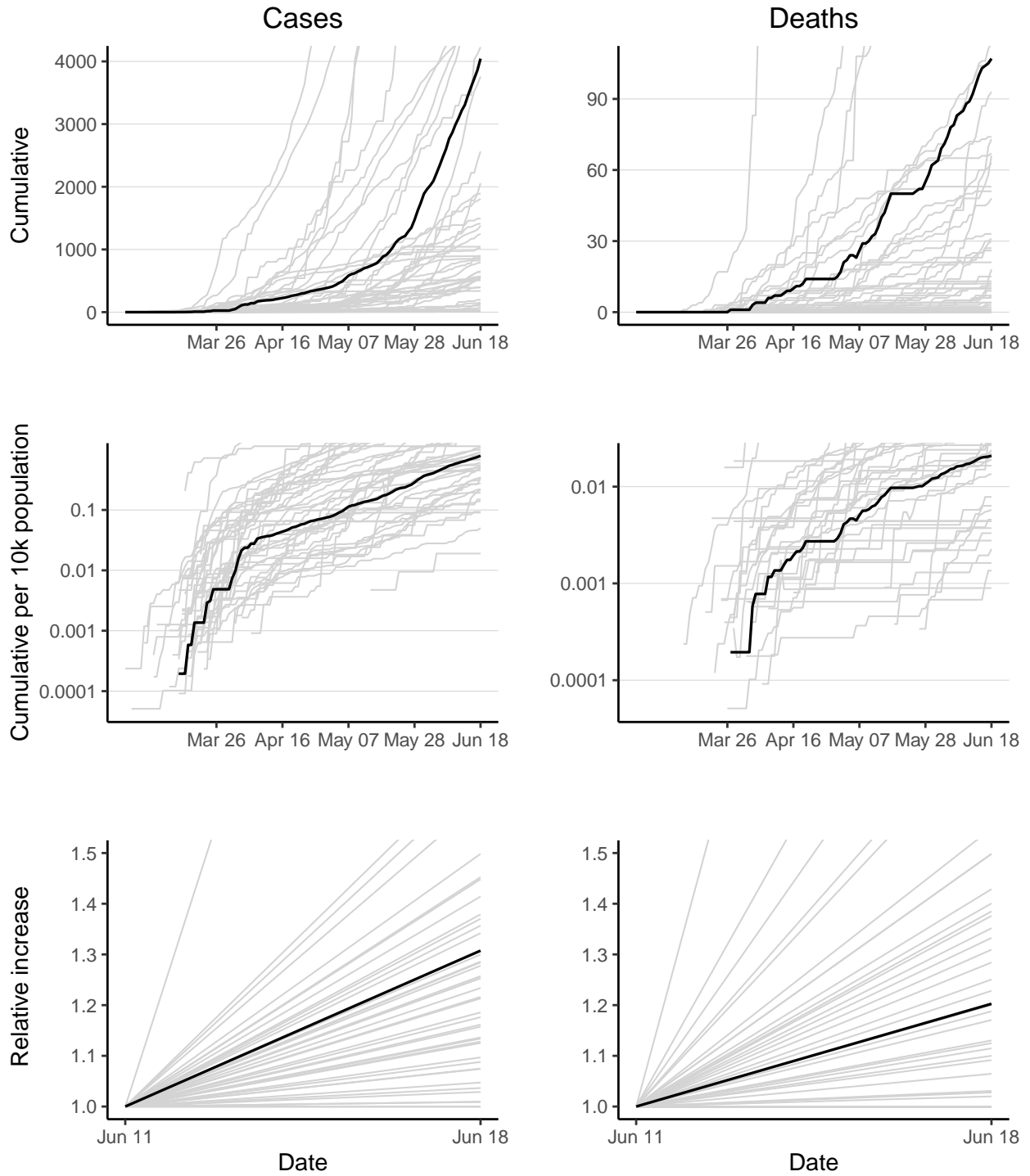
Guinea has 4668 reported case(s) (9th in the region) and 26 reported death(s) (21st). Cumulative counts per 10,000 population of reported cases and deaths are 3.8 (12th) and 0.021 (25th) respectively. The doubling times of reported cases and deaths over the last 7 days are 57.6 days (34th) and 39.6 days (23rd).

Guinea-Bissau



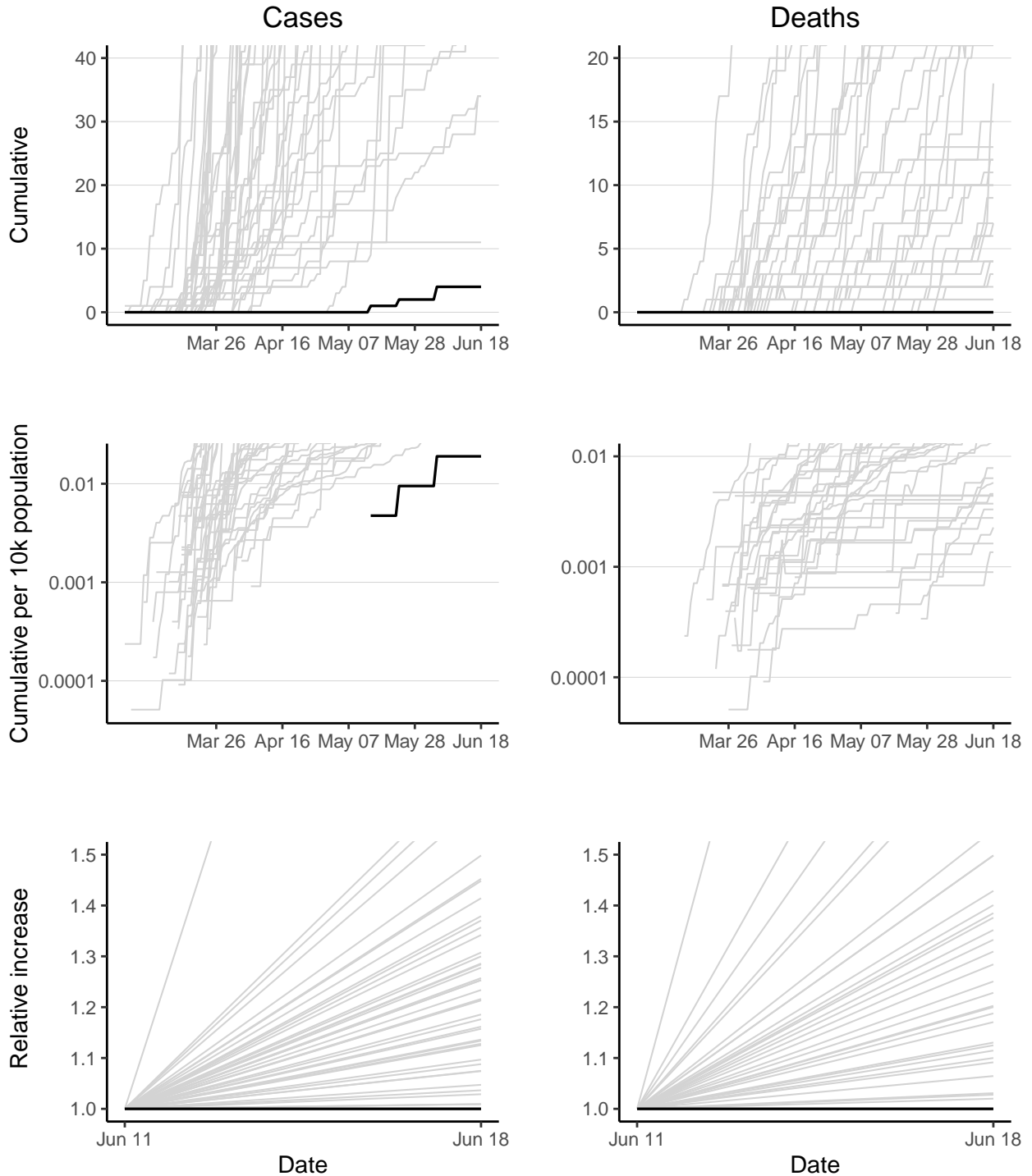
Guinea-Bissau has 1492 reported case(s) (17th in the region) and 15 reported death(s) (24th). Cumulative counts per 10,000 population of reported cases and deaths are 8 (6th) and 0.08 (9th) respectively. The doubling times of reported cases and deaths over the last 7 days are 67.8 days (36th) and 21.7 days (17th).

Kenya



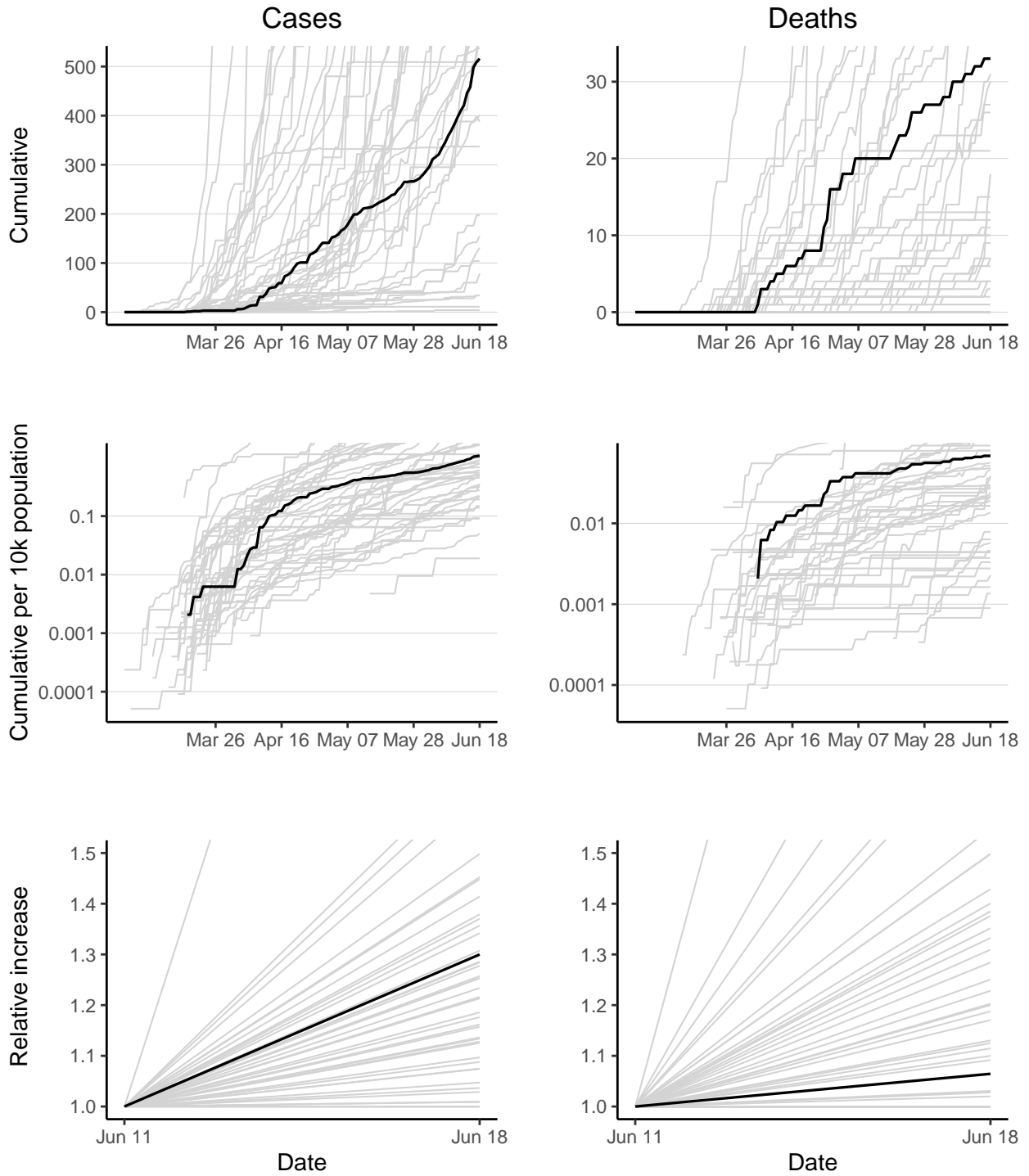
Kenya has 4044 reported case(s) (11th in the region) and 107 reported death(s) (6th). Cumulative counts per 10,000 population of reported cases and deaths are 0.79 (26th) and 0.021 (26th) respectively. The doubling times of reported cases and deaths over the last 7 days are 18.1 days (13th) and 26.3 days (19th).

Lesotho



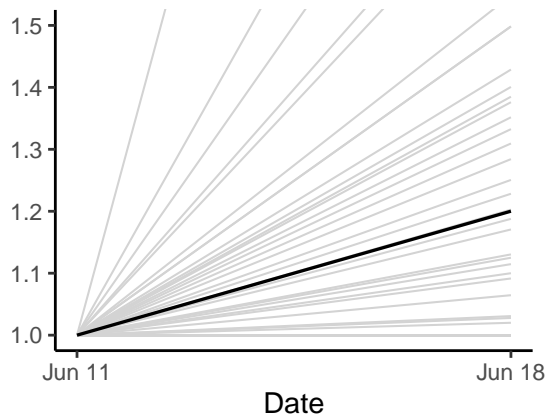
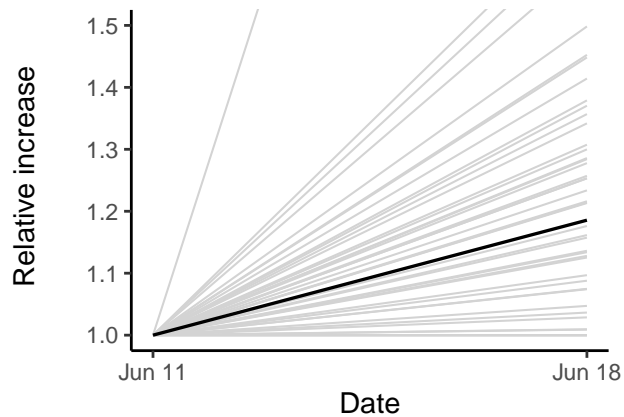
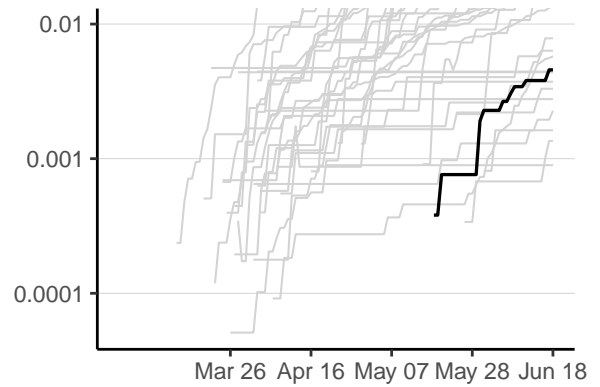
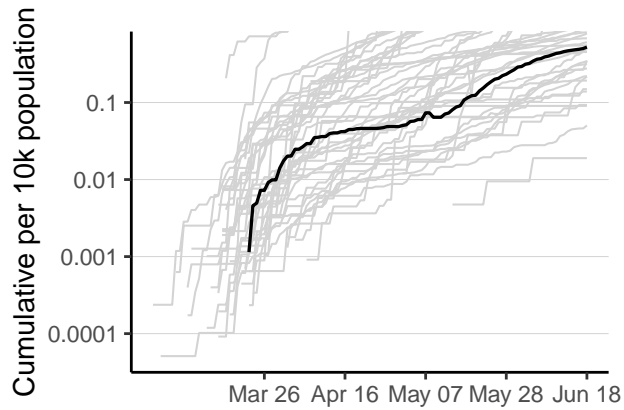
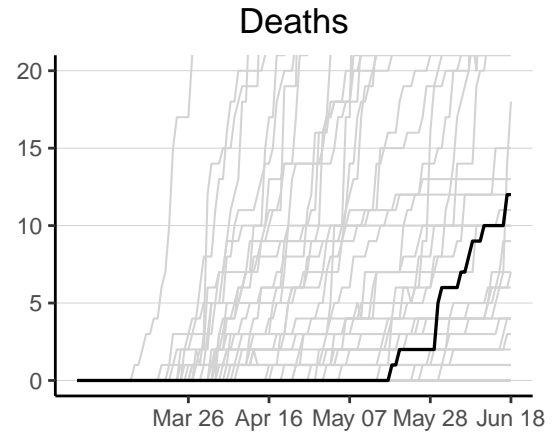
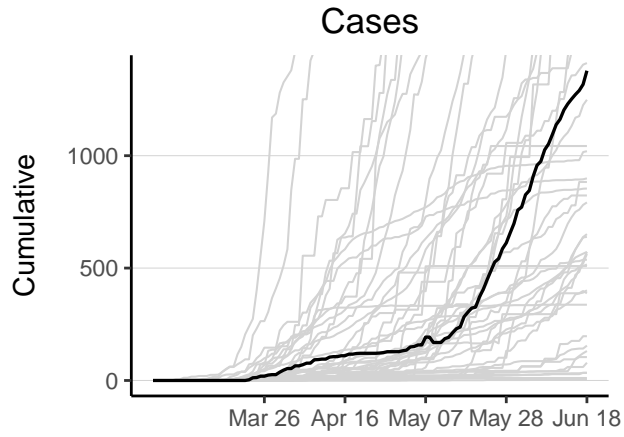
Lesotho has 4 reported case(s) (47th in the region) and 0 reported death(s) (44th). Cumulative counts per 10,000 population of reported cases and deaths are 0.019 (47th) and 0 (44th) respectively. The doubling time of reported cases cannot be calculated as no new cases have been reported in last 7 days. The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Liberia



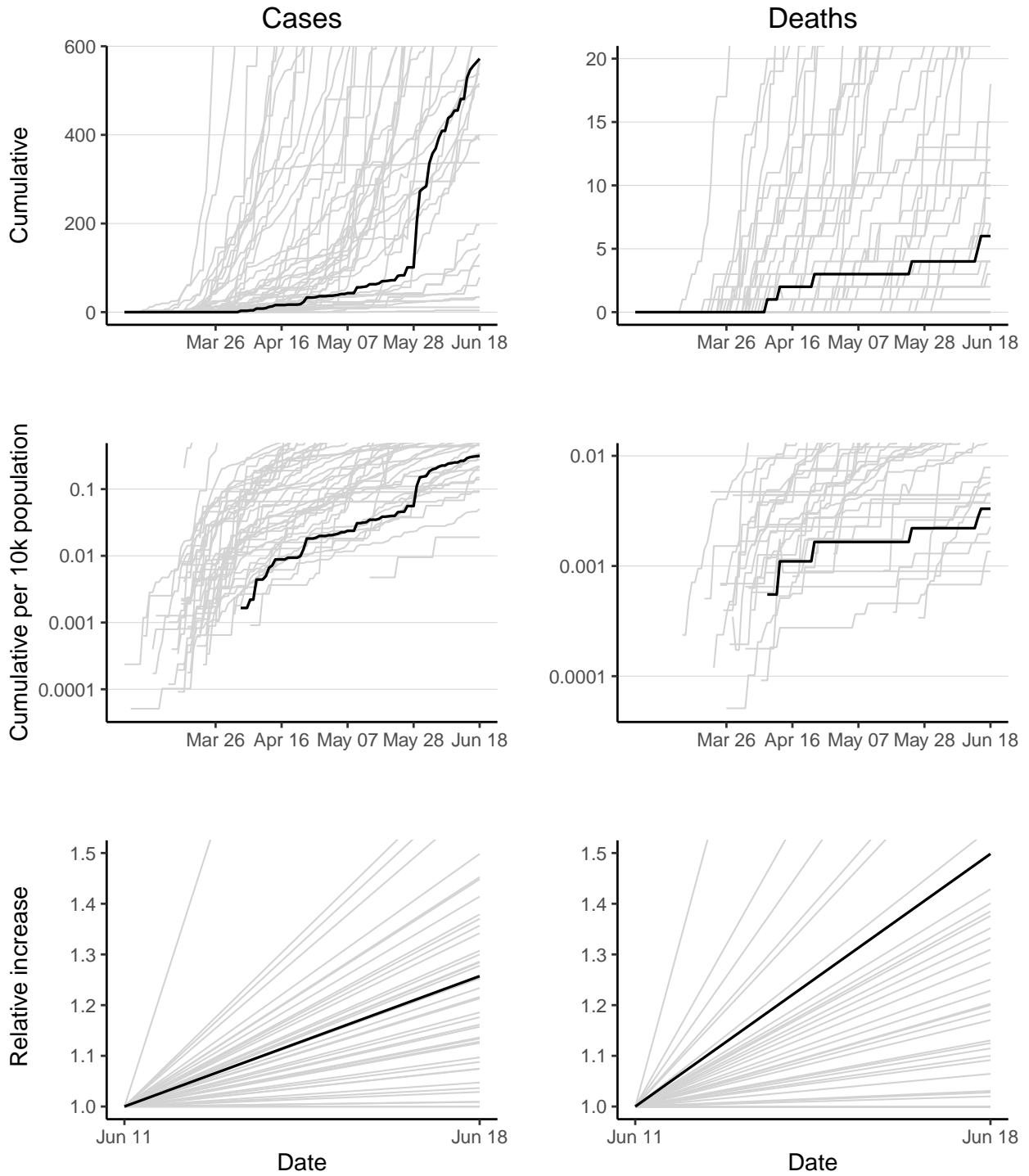
Liberia has 516 reported case(s) (34th in the region) and 33 reported death(s) (17th). Cumulative counts per 10,000 population of reported cases and deaths are 1.1 (22nd) and 0.068 (11th) respectively. The doubling times of reported cases and deaths over the last 7 days are 18.5 days (14th) and 77.6 days (28th).

Madagascar



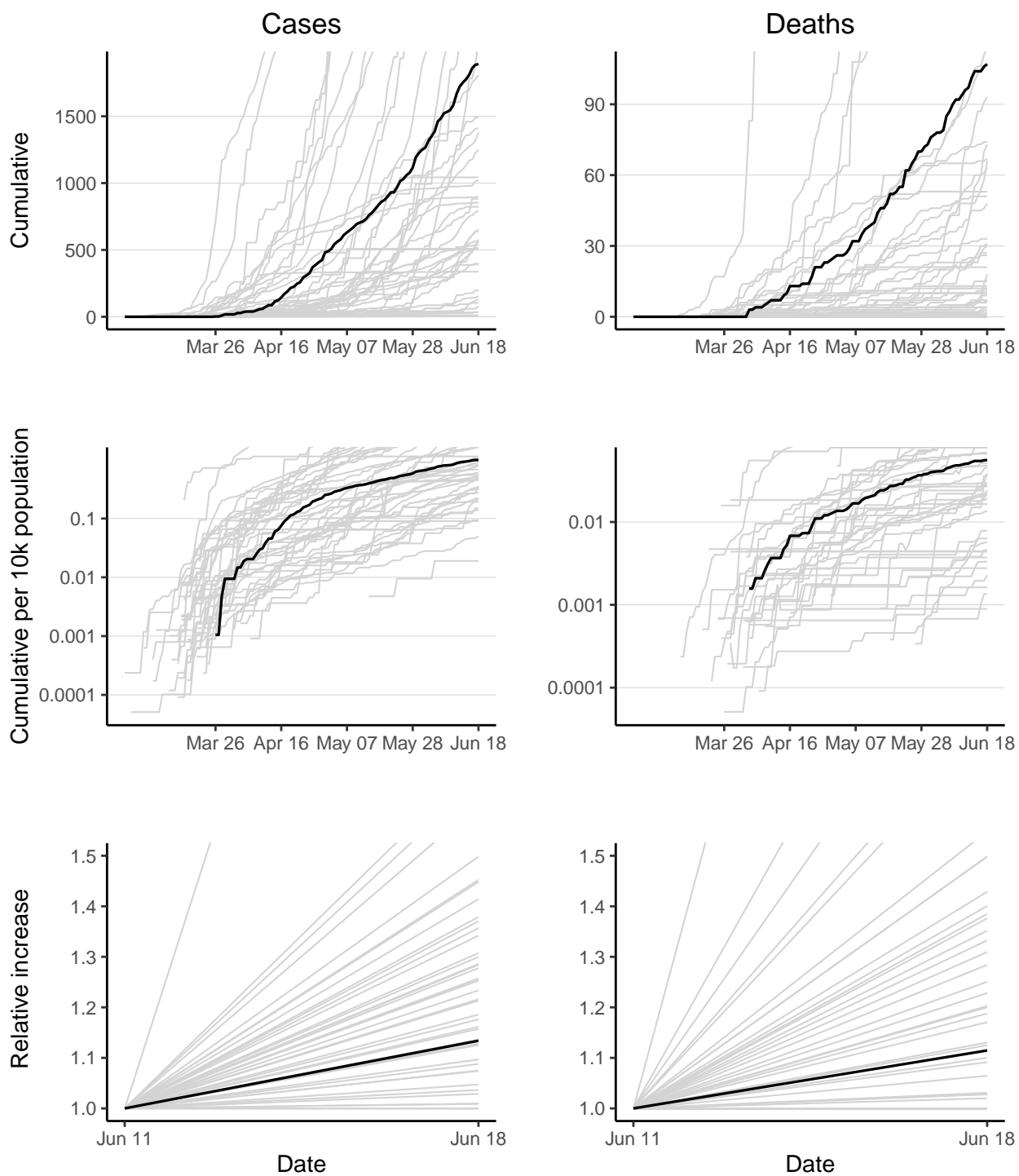
Madagascar has 1378 reported case(s) (19th in the region) and 12 reported death(s) (27th). Cumulative counts per 10,000 population of reported cases and deaths are 0.52 (30th) and 0.0046 (33rd) respectively. The doubling times of reported cases and deaths over the last 7 days are 28.5 days (25th) and 26.6 days (20th).

Malawi



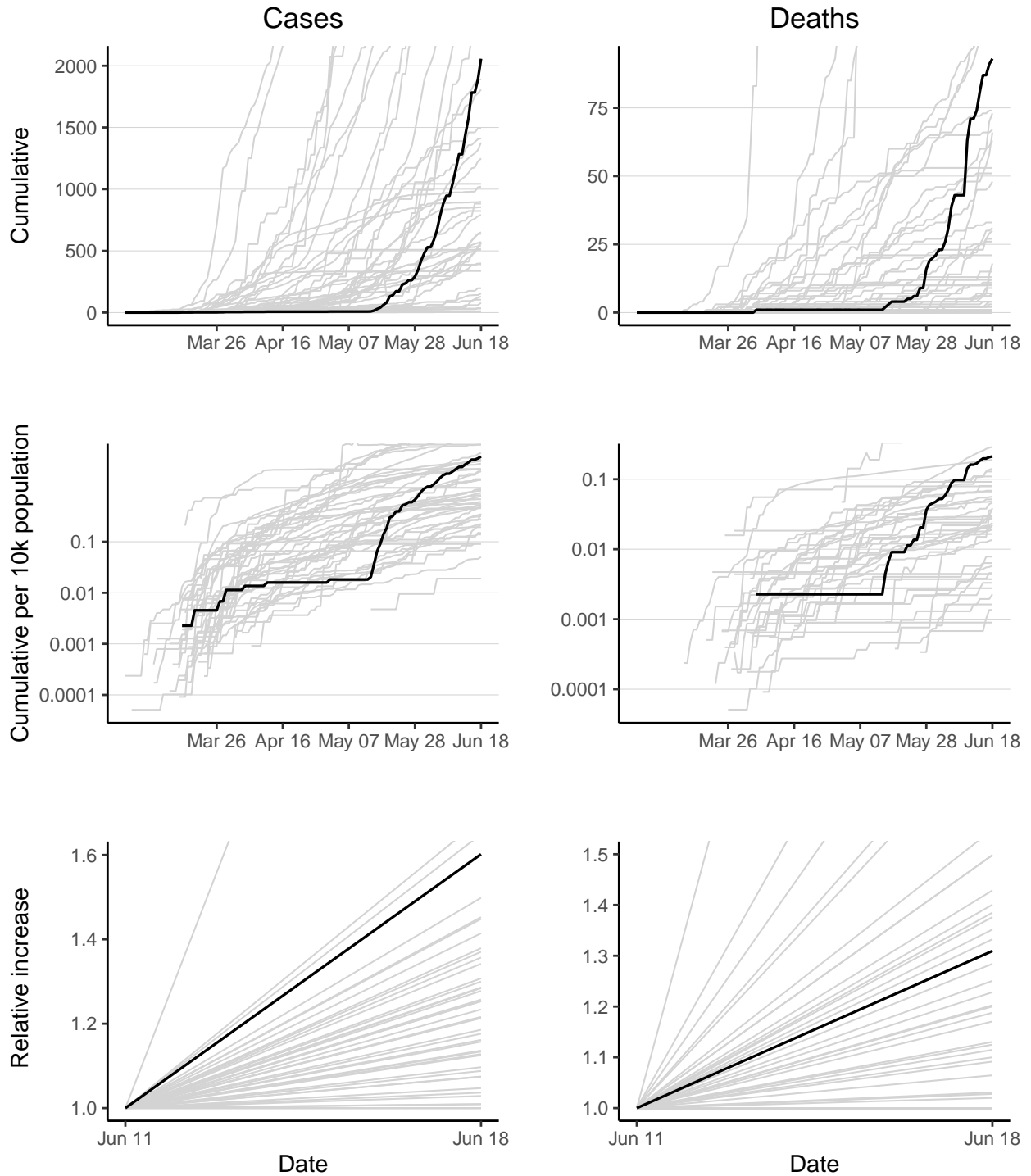
Malawi has 572 reported case(s) (31st in the region) and 6 reported death(s) (34th). Cumulative counts per 10,000 population of reported cases and deaths are 0.32 (37th) and 0.0033 (37th) respectively. The doubling times of reported cases and deaths over the last 7 days are 21.2 days (18th) and 12 days (8th).

Mali



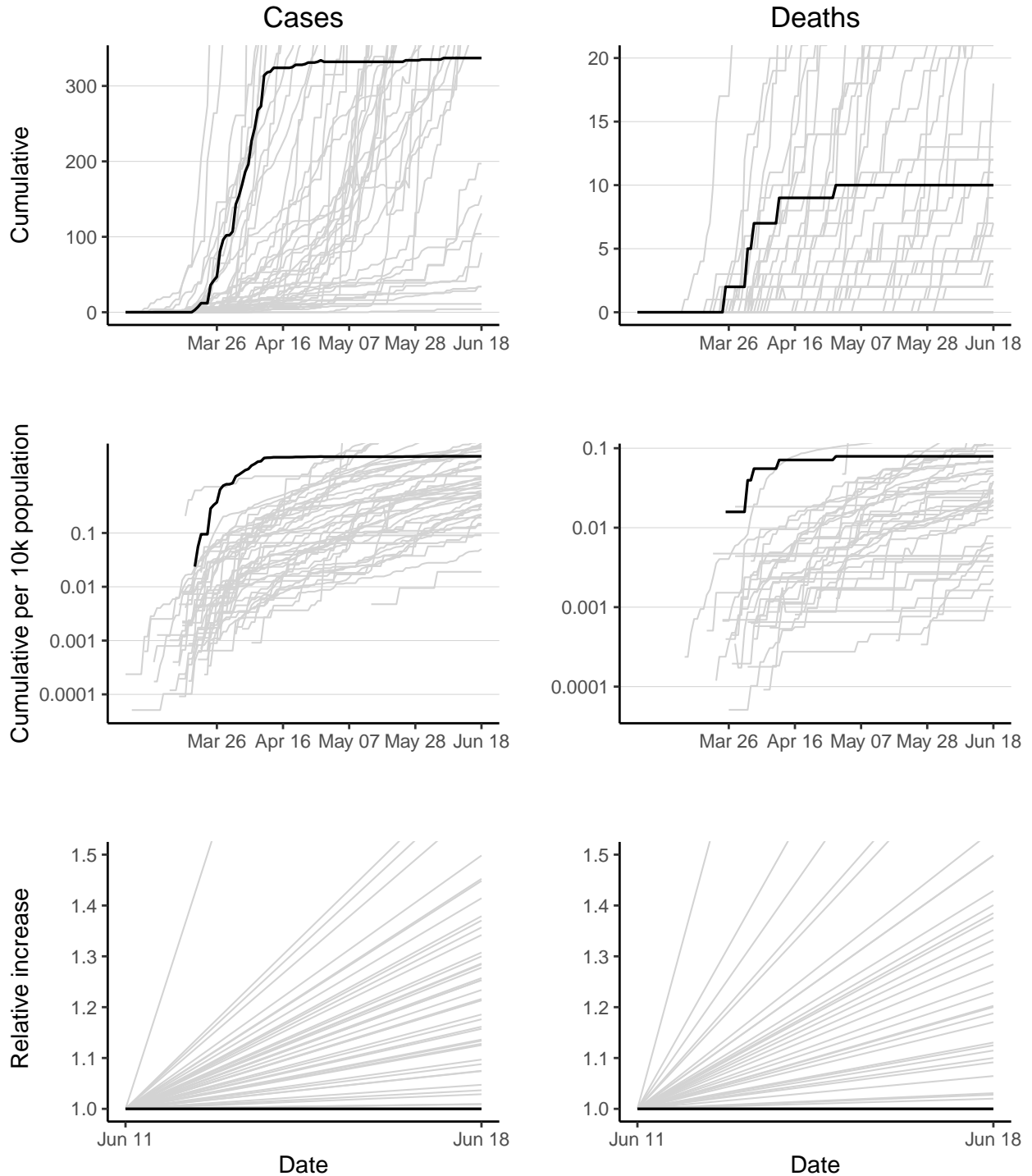
Mali has 1890 reported case(s) (15th in the region) and 107 reported death(s) (7th). Cumulative counts per 10,000 population of reported cases and deaths are 0.99 (23rd) and 0.056 (13th) respectively. The doubling times of reported cases and deaths over the last 7 days are 38.6 days (30th) and 44.7 days (25th).

Mauritania



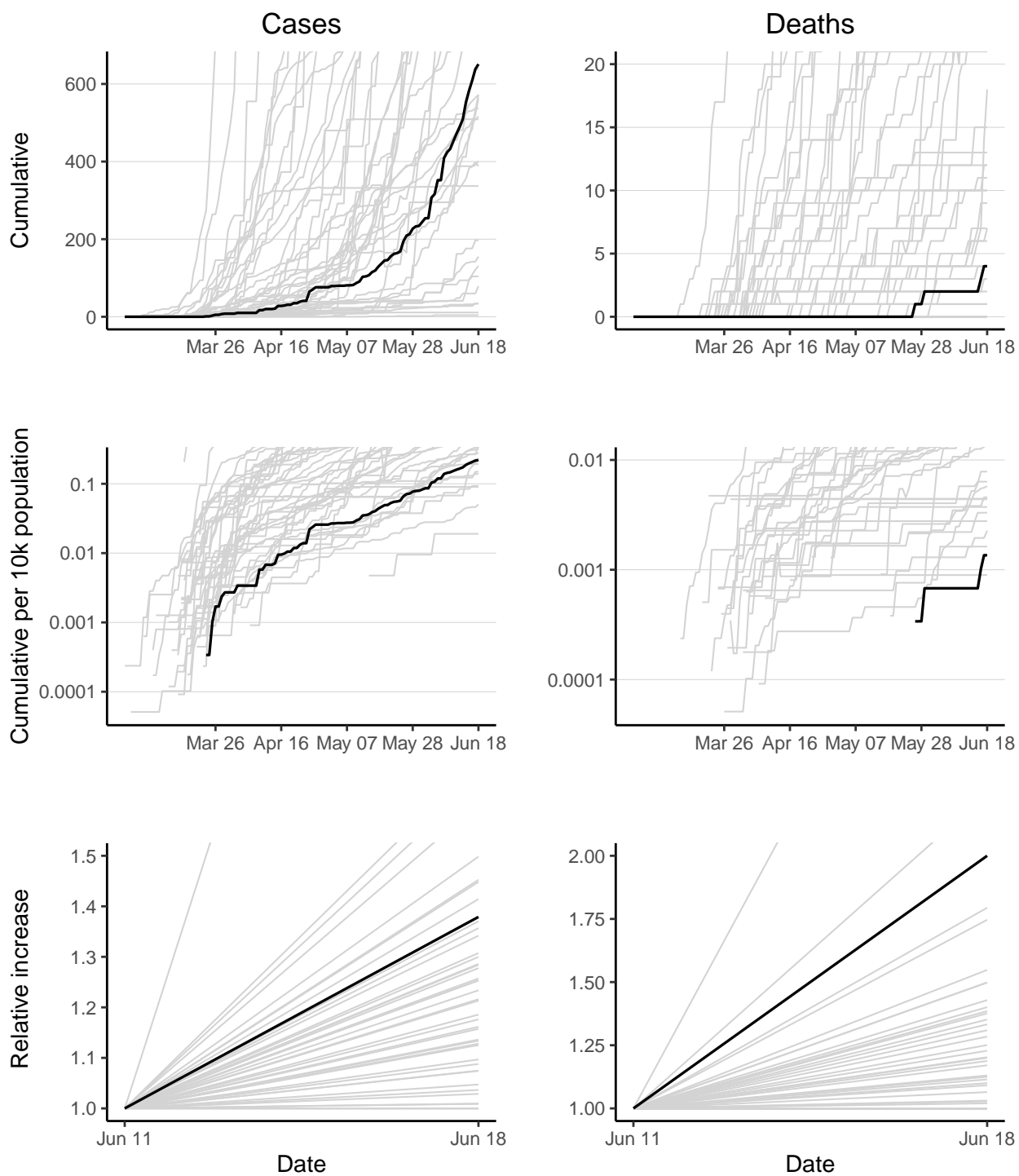
Mauritania has 2057 reported case(s) (14th in the region) and 93 reported death(s) (8th). Cumulative counts per 10,000 population of reported cases and deaths are 4.7 (8th) and 0.21 (3rd) respectively. The doubling times of reported cases and deaths over the last 7 days are 10.3 days (4th) and 18 days (15th).

Mauritius



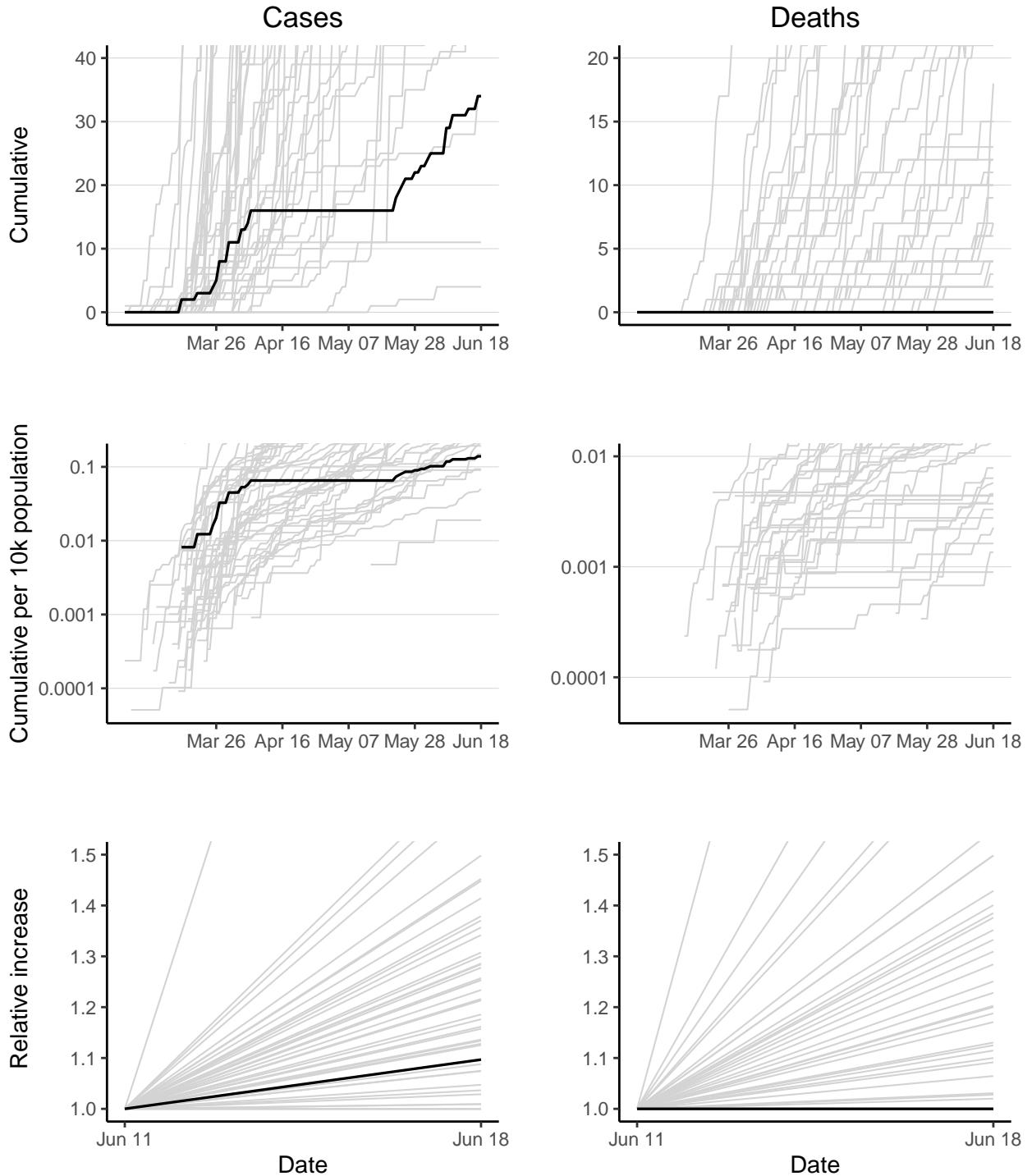
Mauritius has 337 reported case(s) (38th in the region) and 10 reported death(s) (29th). Cumulative counts per 10,000 population of reported cases and deaths are 2.7 (15th) and 0.079 (10th) respectively. The doubling time of reported cases cannot be calculated as no new cases have been reported in last 7 days. The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Mozambique



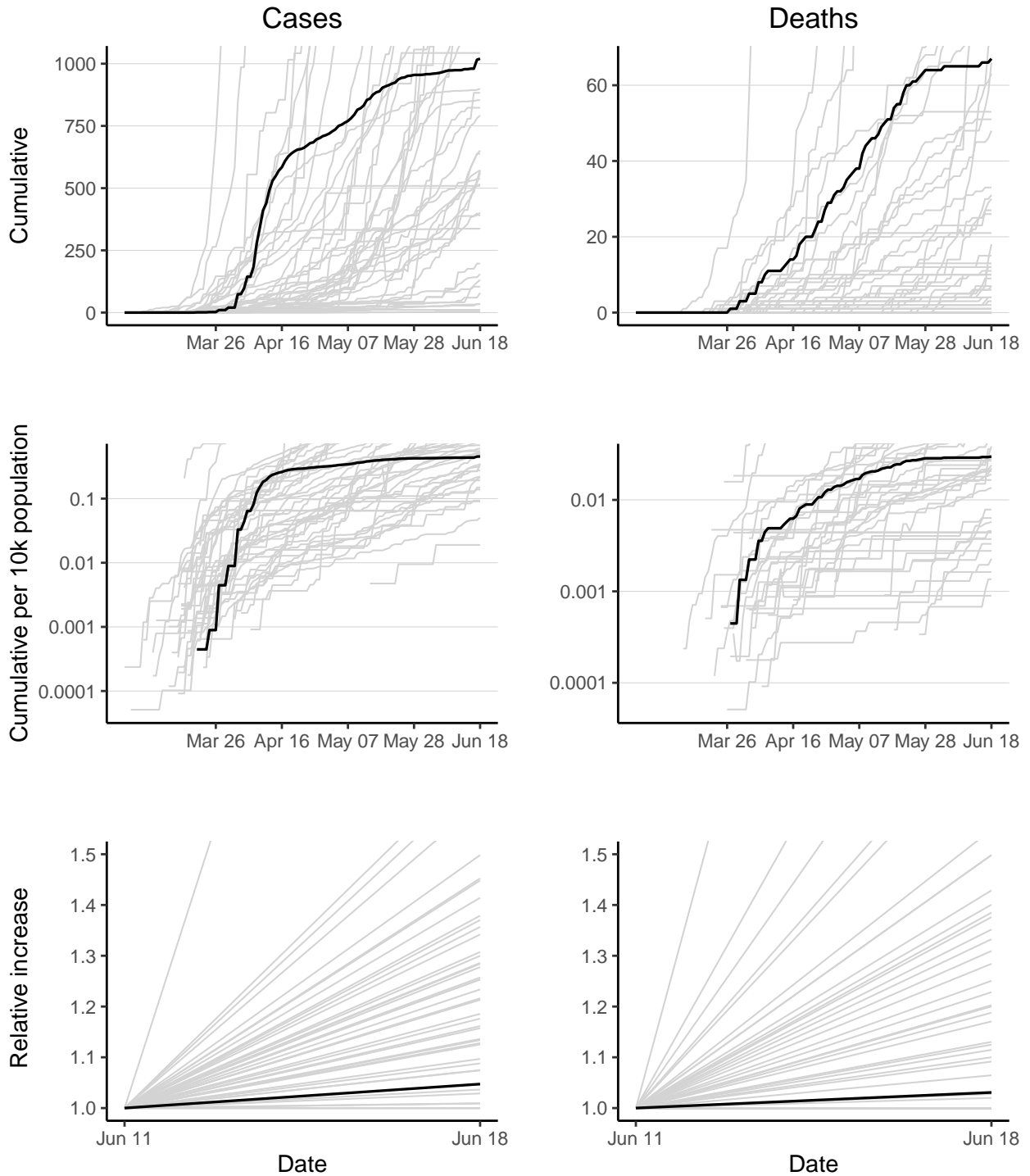
Mozambique has 651 reported case(s) (28th in the region) and 4 reported death(s) (36th). Cumulative counts per 10,000 population of reported cases and deaths are 0.22 (39th) and 0.0014 (41st) respectively. The doubling times of reported cases and deaths over the last 7 days are 15.1 days (9th) and 7 days (3rd).

Namibia



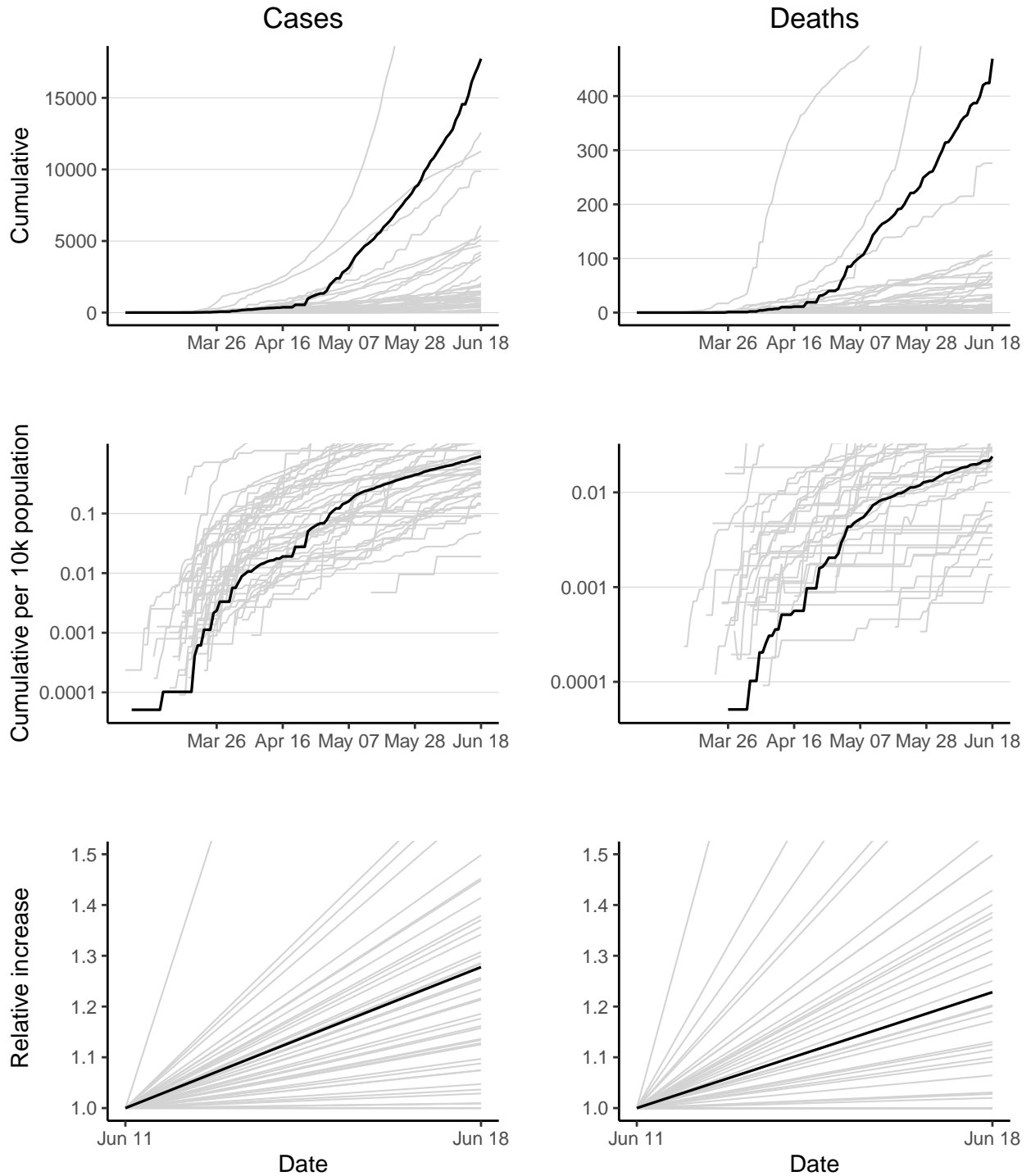
Namibia has 34 reported case(s) (45th in the region) and 0 reported death(s) (45th). Cumulative counts per 10,000 population of reported cases and deaths are 0.14 (43rd) and 0 (45th) respectively. The doubling time of reported cases over the last 7 days is 52.5 days (33rd). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Niger



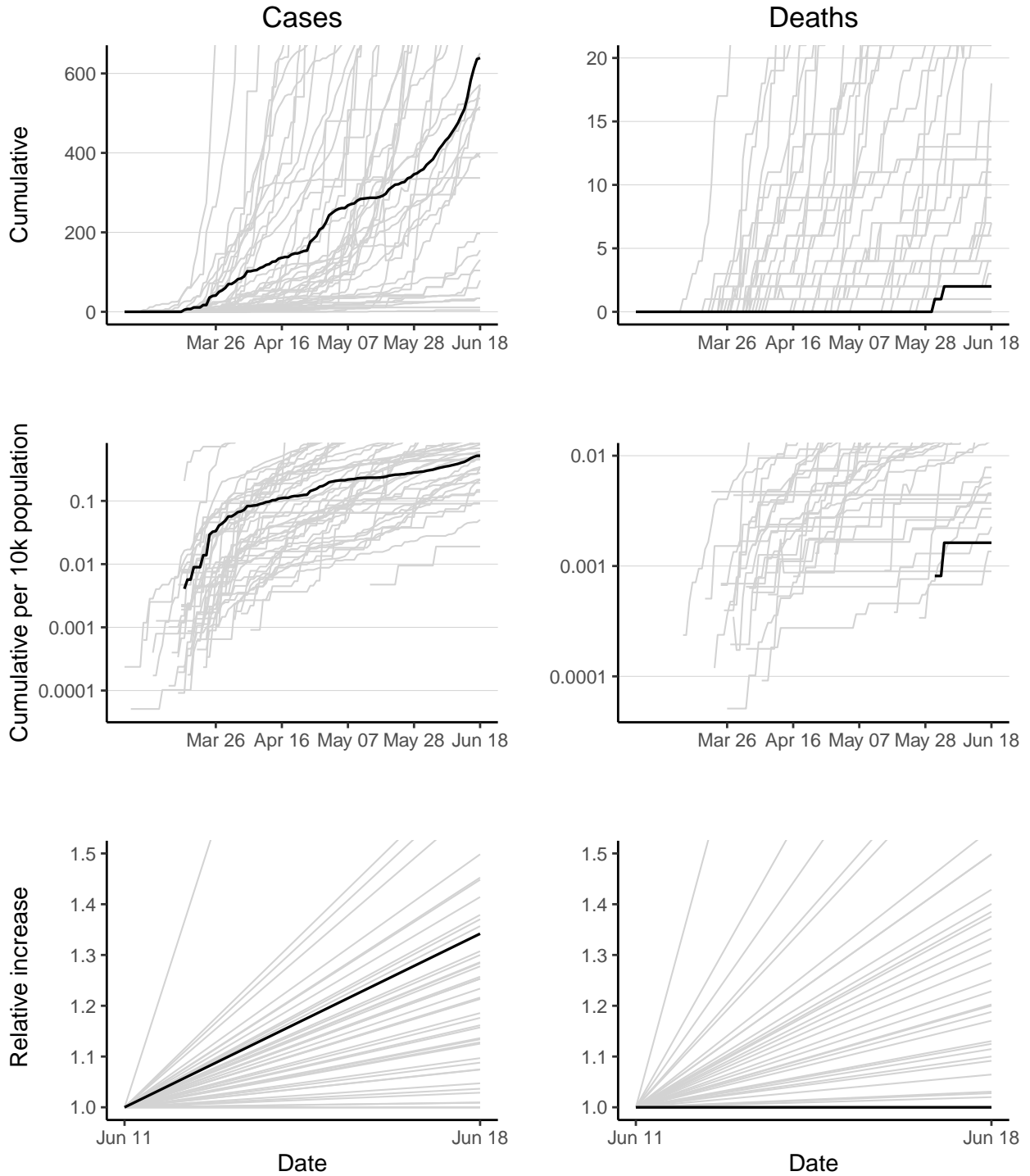
Niger has 1020 reported case(s) (22nd in the region) and 67 reported death(s) (11th). Cumulative counts per 10,000 population of reported cases and deaths are 0.45 (34th) and 0.03 (19th) respectively. The doubling times of reported cases and deaths over the last 7 days are 105.1 days (37th) and 160.1 days (29th).

Nigeria



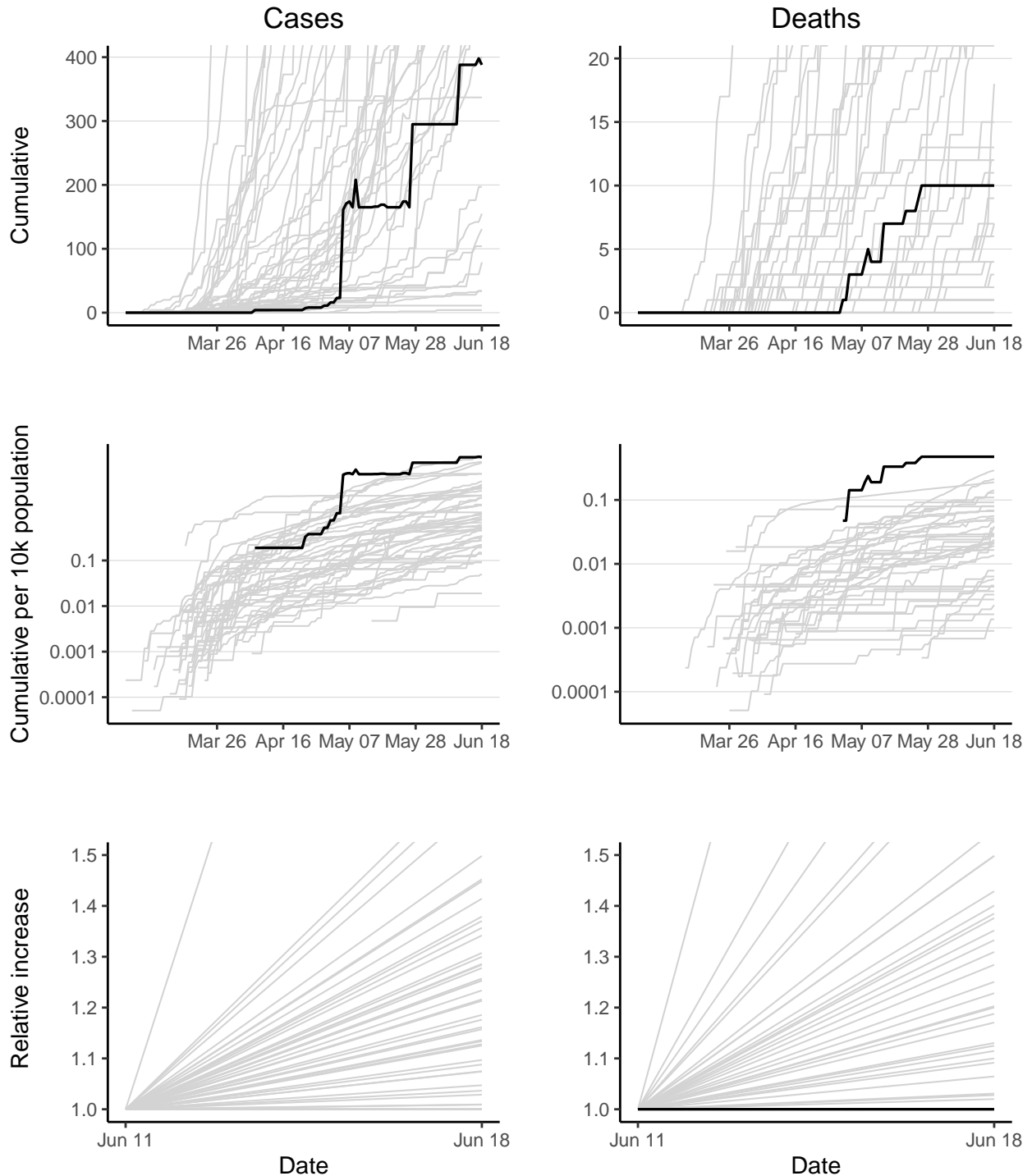
Nigeria has 17735 reported case(s) (2nd in the region) and 469 reported death(s) (3rd). Cumulative counts per 10,000 population of reported cases and deaths are 0.91 (24th) and 0.024 (23rd) respectively. The doubling times of reported cases and deaths over the last 7 days are 19.8 days (17th) and 23.6 days (18th).

Rwanda



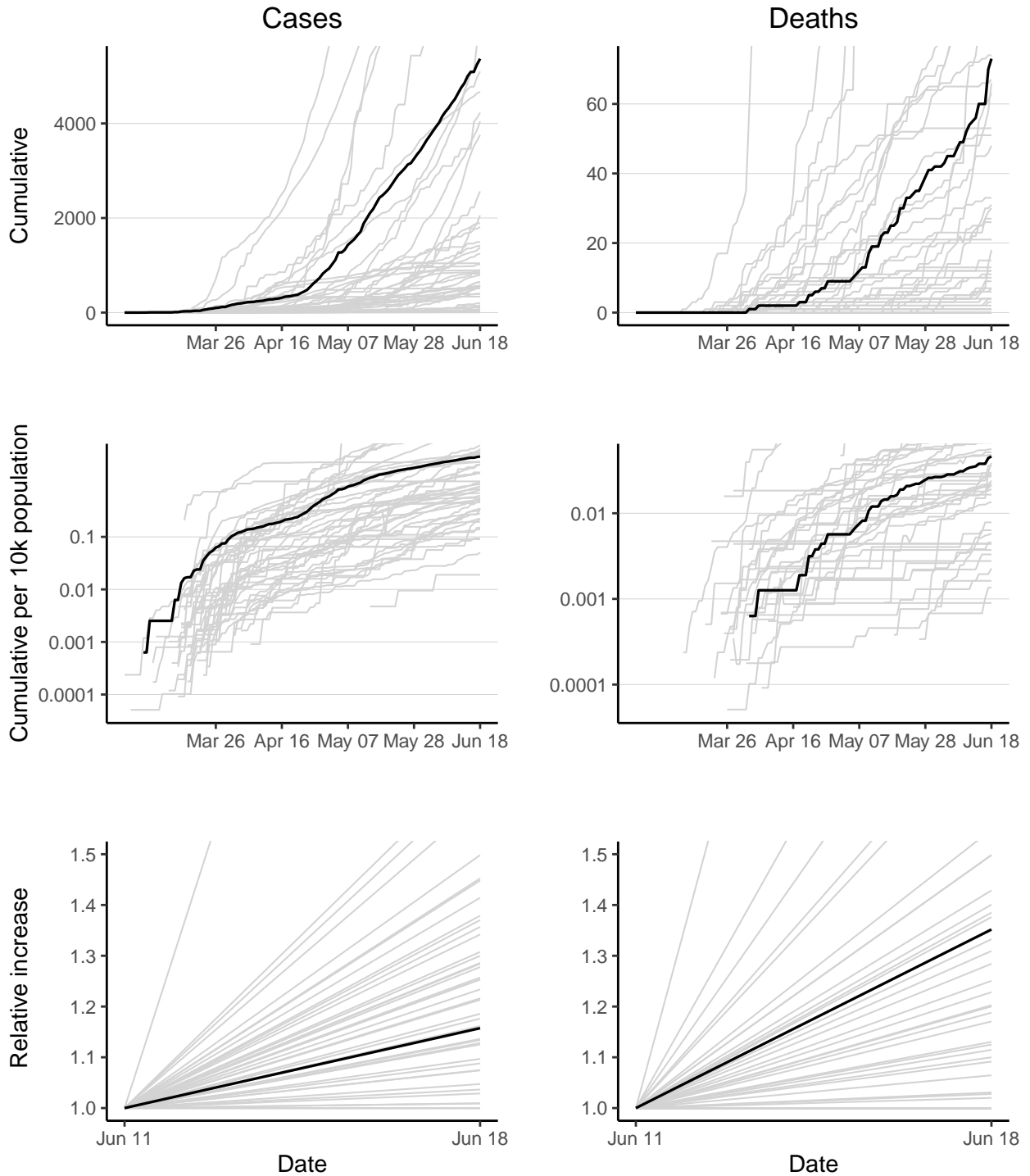
Rwanda has 639 reported case(s) (29th in the region) and 2 reported death(s) (39th). Cumulative counts per 10,000 population of reported cases and deaths are 0.52 (31st) and 0.0016 (40th) respectively. The doubling time of reported cases over the last 7 days is 16.5 days (12th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Sao Tome and Principe



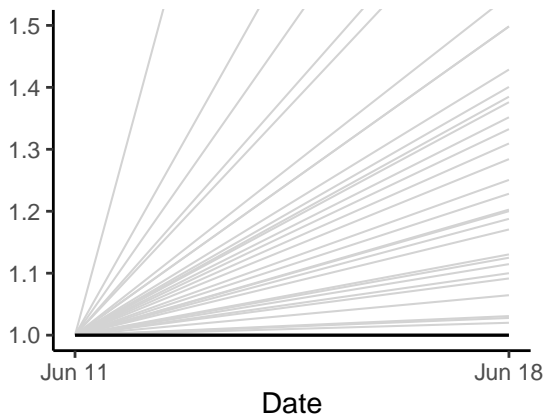
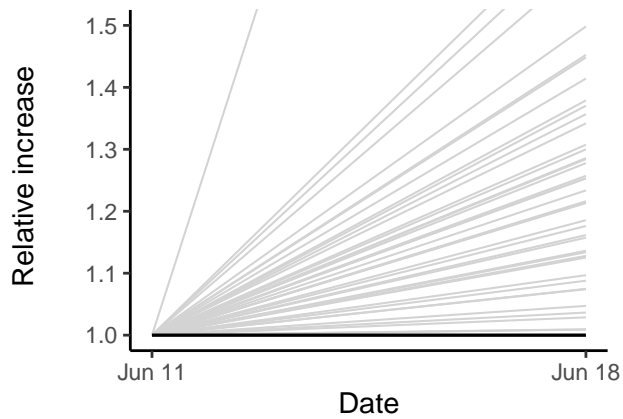
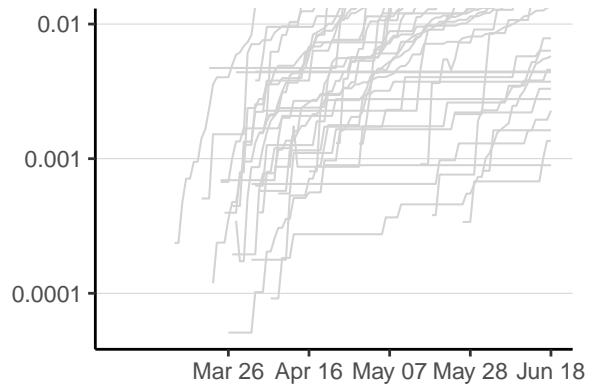
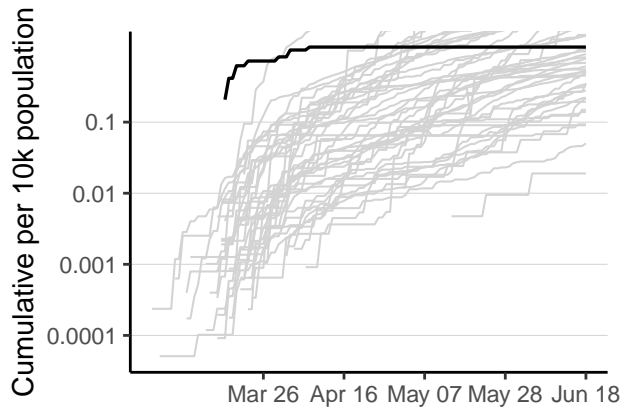
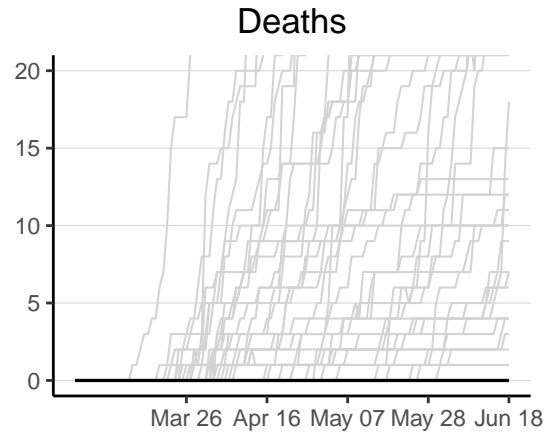
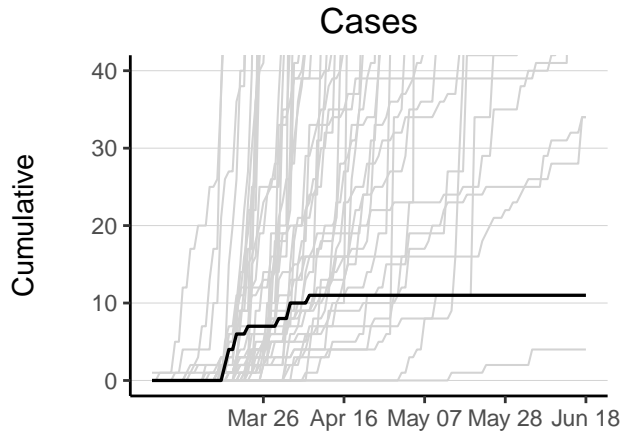
Sao Tome and Principe has 388 reported case(s) (37th in the region) and 10 reported death(s) (30th). Cumulative counts per 10,000 population of reported cases and deaths are 18 (2nd) and 0.47 (1st) respectively. The doubling time of reported cases cannot be calculated as some cases have been redacted in last 7 days. The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Senegal



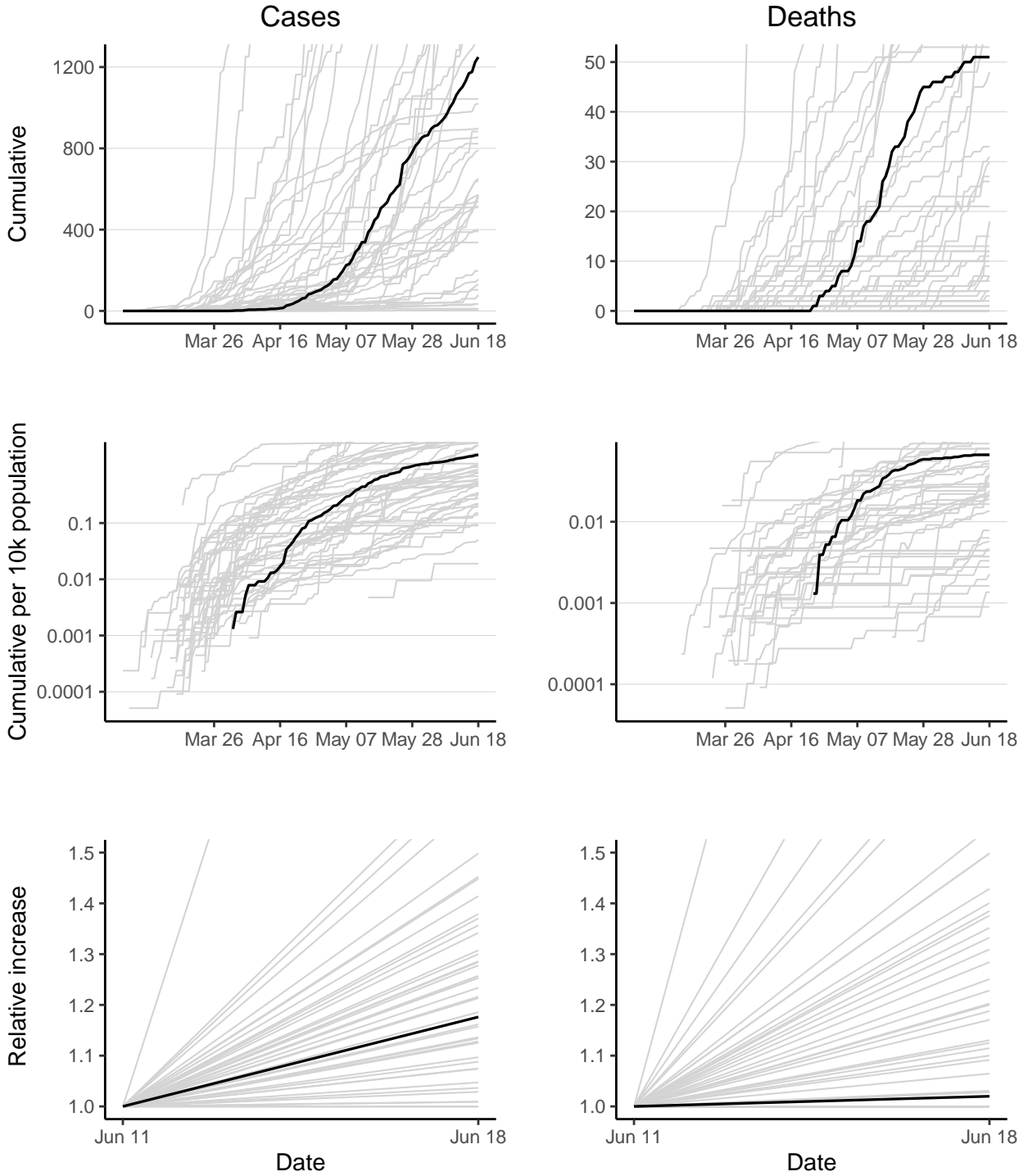
Senegal has 5369 reported case(s) (7th in the region) and 73 reported death(s) (10th). Cumulative counts per 10,000 population of reported cases and deaths are 3.4 (13th) and 0.046 (16th) respectively. The doubling times of reported cases and deaths over the last 7 days are 33.2 days (28th) and 16.1 days (13th).

Seychelles



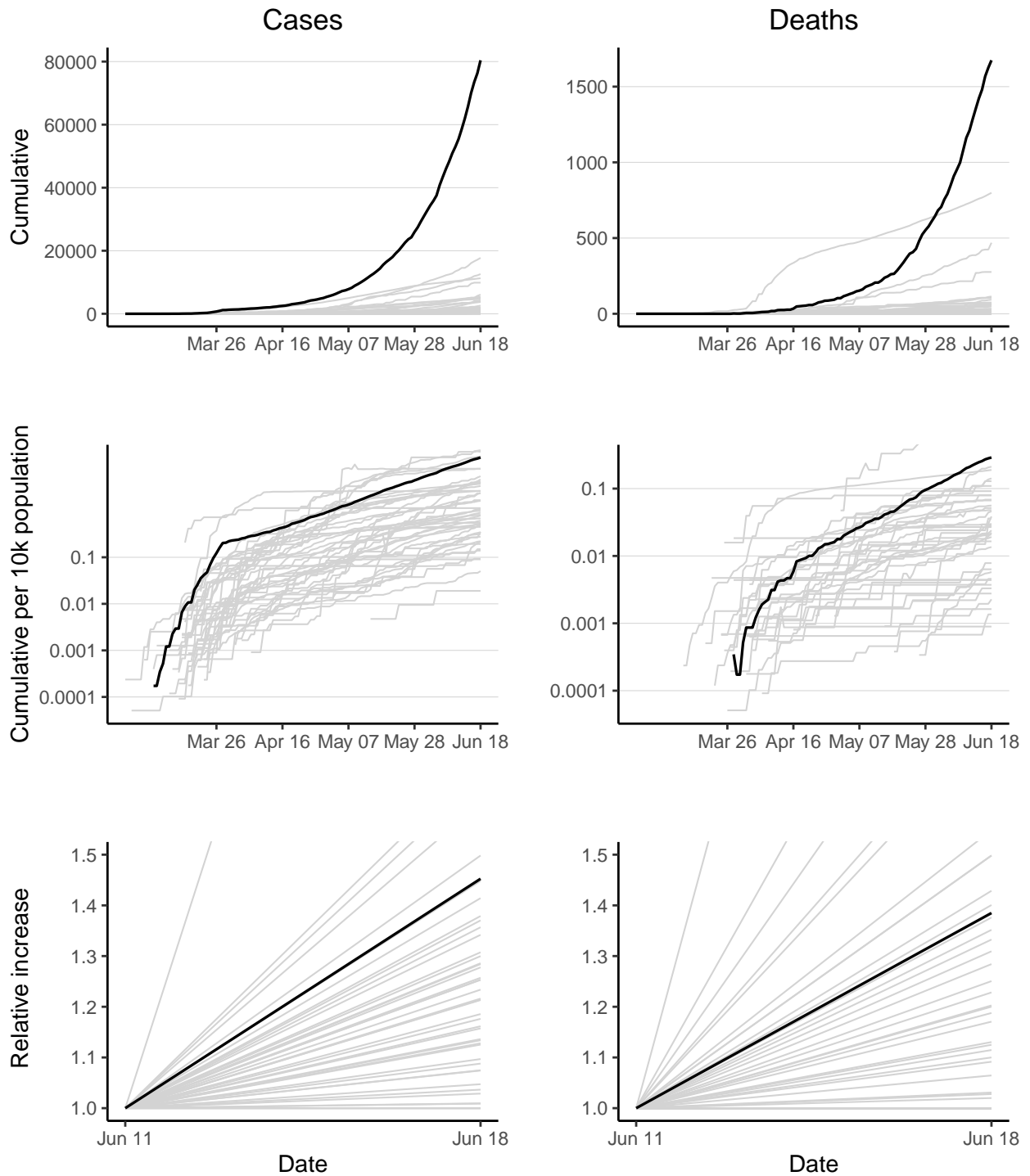
Seychelles has 11 reported case(s) (46th in the region) and 0 reported death(s) (46th). Cumulative counts per 10,000 population of reported cases and deaths are 1.1 (21st) and 0 (46th) respectively. The doubling time of reported cases cannot be calculated as no new cases have been reported in last 7 days. The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Sierra Leone



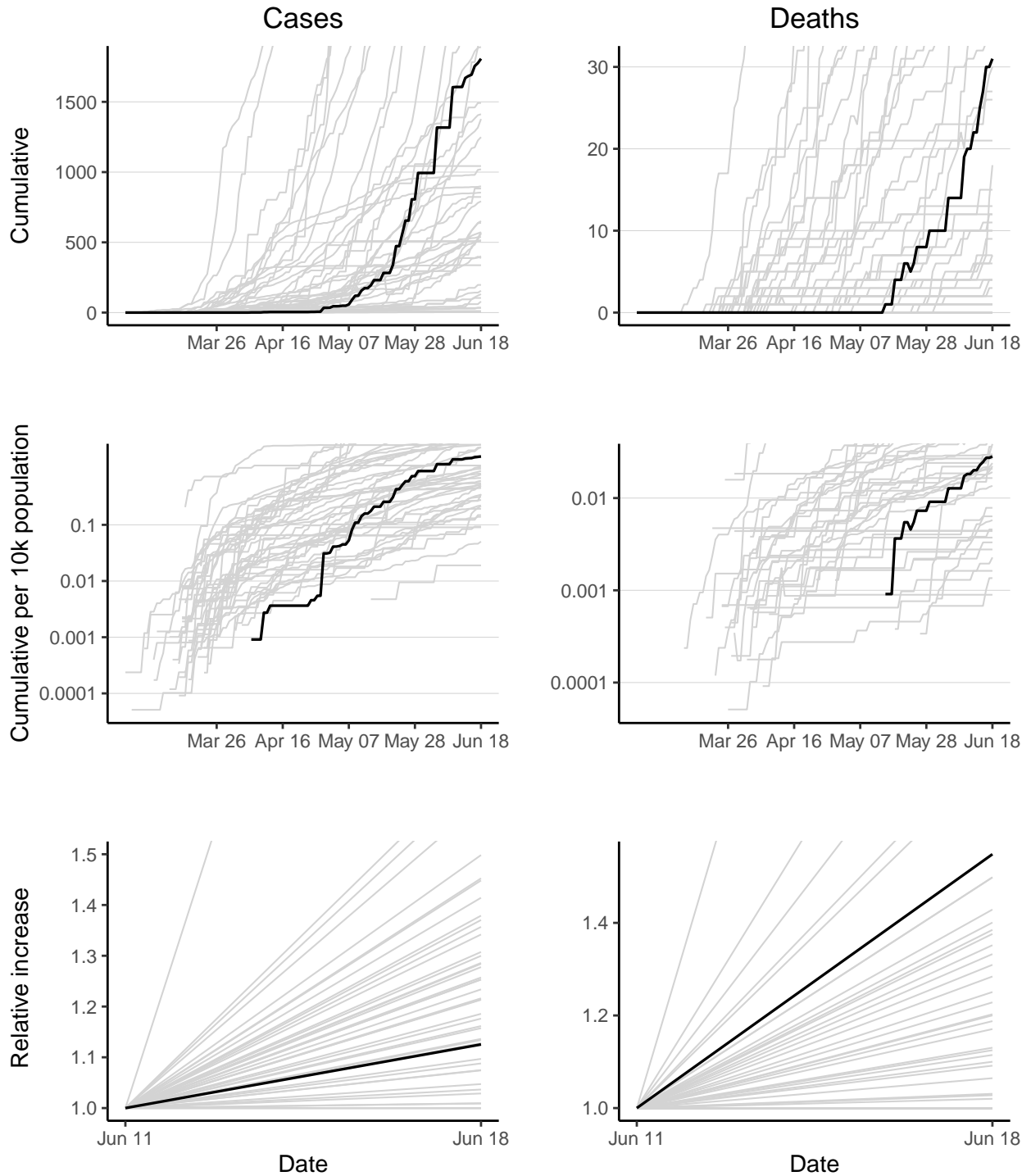
Sierra Leone has 1249 reported case(s) (20th in the region) and 51 reported death(s) (15th). Cumulative counts per 10,000 population of reported cases and deaths are 1.6 (20th) and 0.067 (12th) respectively. The doubling times of reported cases and deaths over the last 7 days are 29.9 days (26th) and 245 days (31st).

South Africa



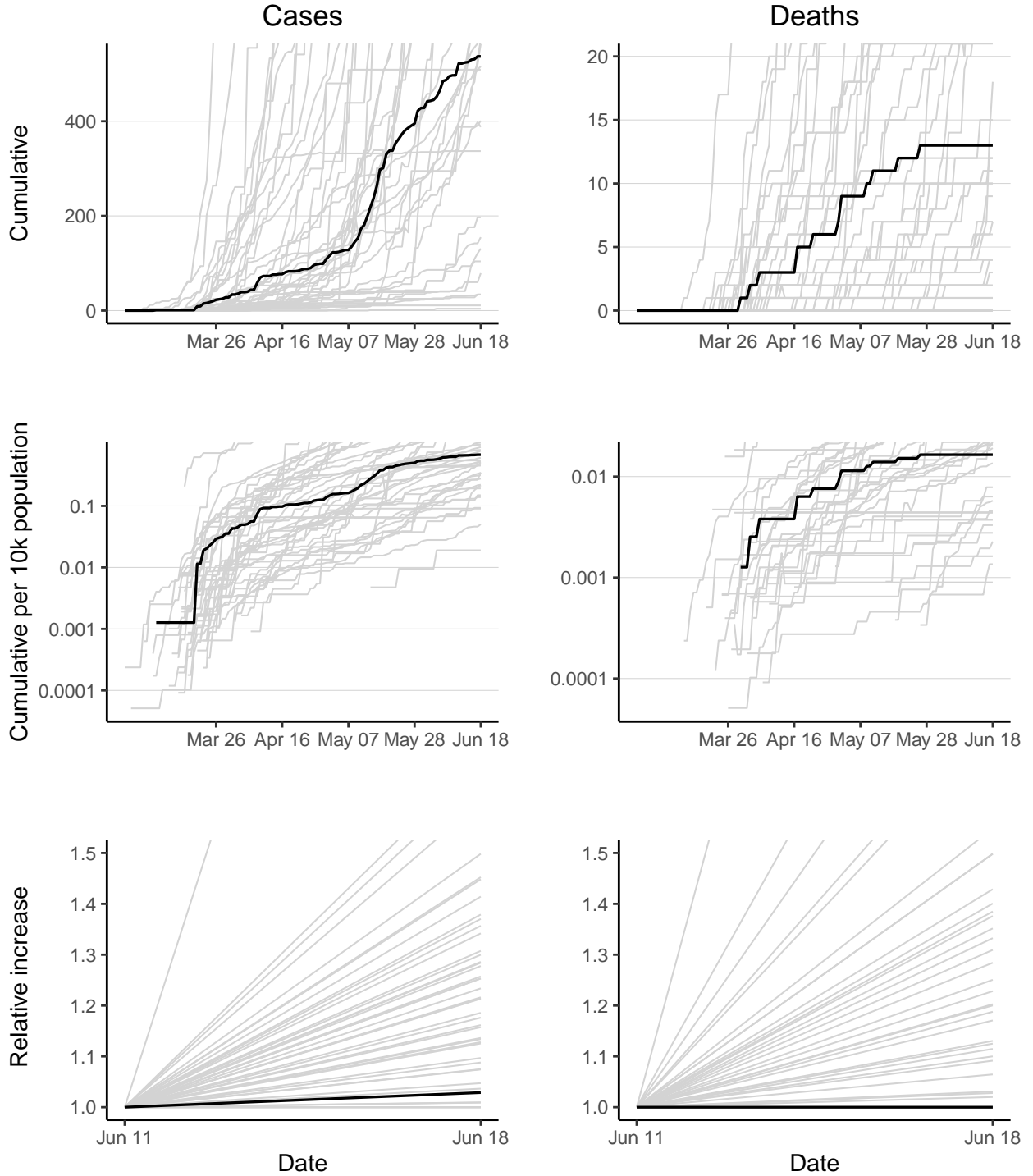
South Africa has 80412 reported case(s) (1st in the region) and 1674 reported death(s) (1st). Cumulative counts per 10,000 population of reported cases and deaths are 14 (4th) and 0.29 (2nd) respectively. The doubling times of reported cases and deaths over the last 7 days are 13 days (6th) and 14.9 days (11th).

South Sudan



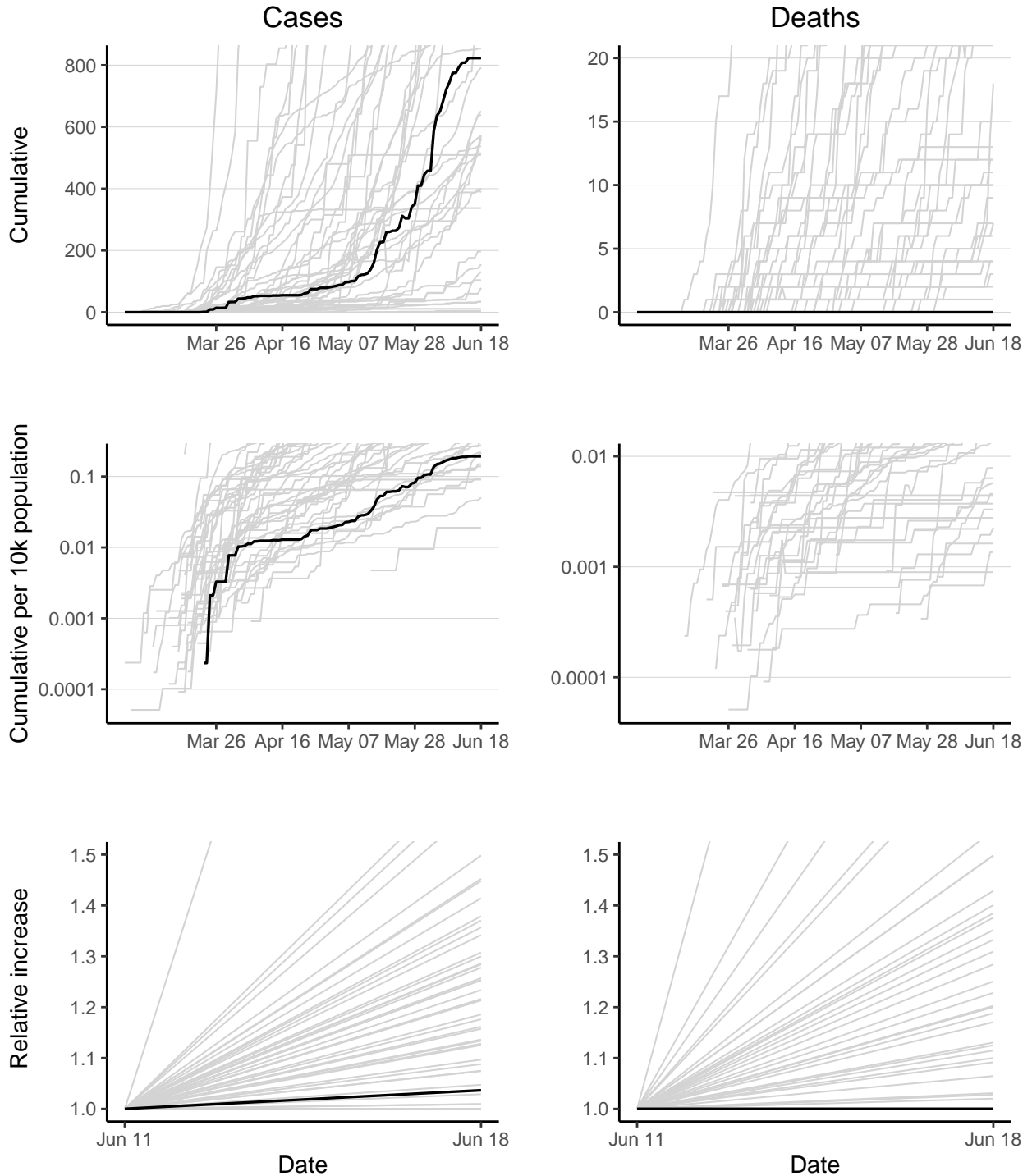
South Sudan has 1807 reported case(s) (16th in the region) and 31 reported death(s) (18th). Cumulative counts per 10,000 population of reported cases and deaths are 1.6 (19th) and 0.028 (21st) respectively. The doubling times of reported cases and deaths over the last 7 days are 41.1 days (32nd) and 11.1 days (6th).

Togo



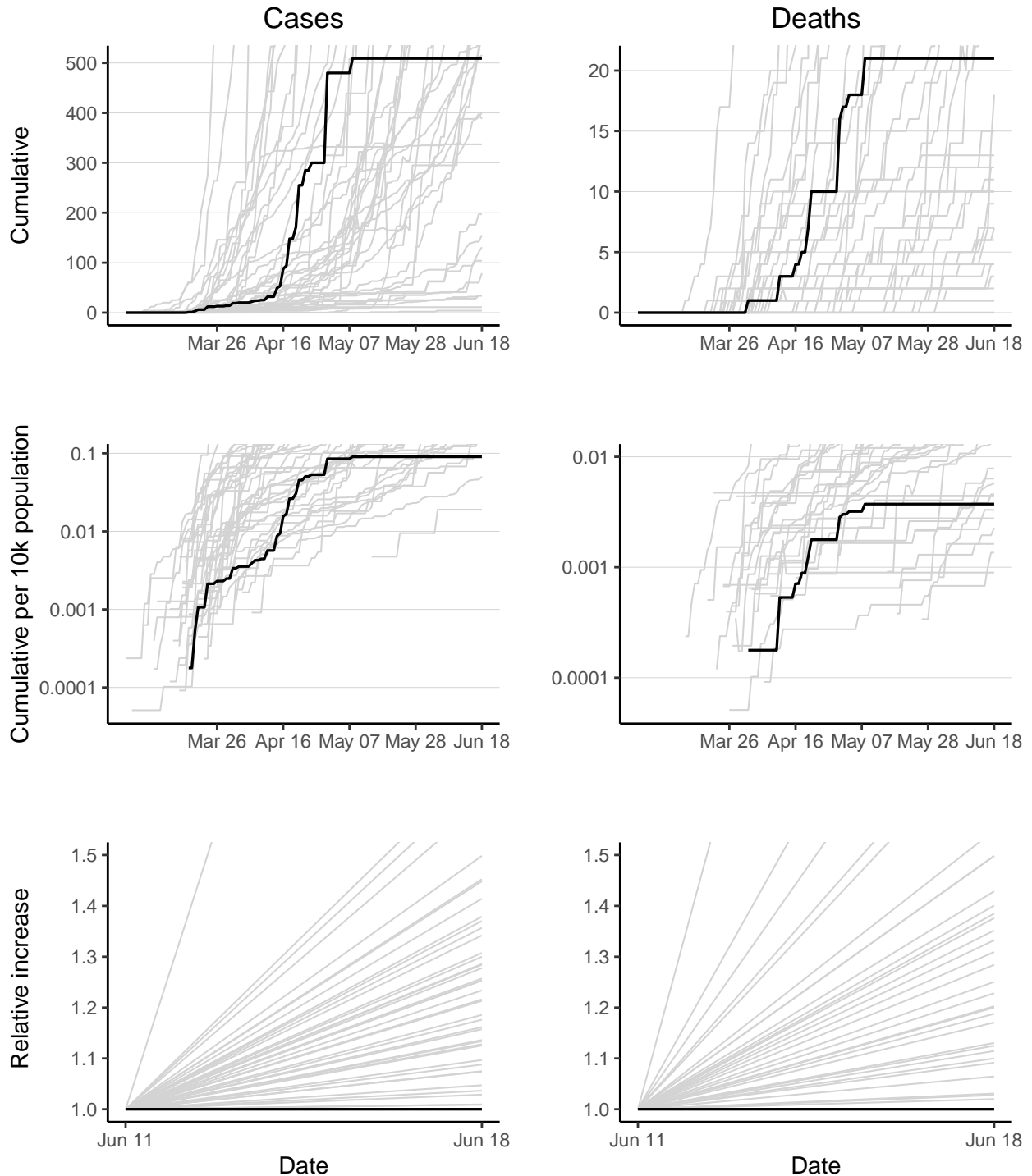
Togo has 537 reported case(s) (33rd in the region) and 13 reported death(s) (25th). Cumulative counts per 10,000 population of reported cases and deaths are 0.68 (27th) and 0.016 (28th) respectively. The doubling time of reported cases over the last 7 days is 171.3 days (39th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

Uganda



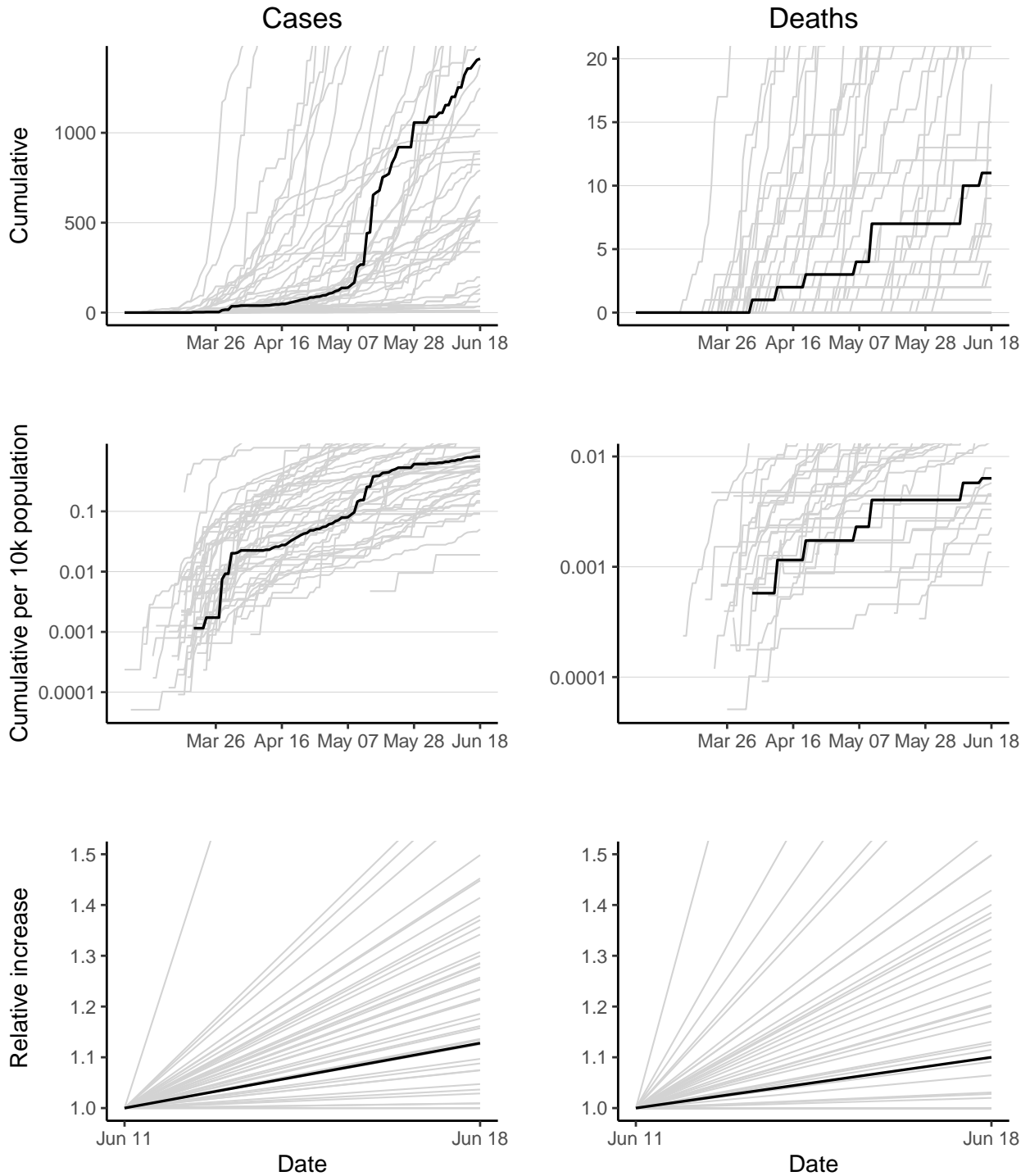
Uganda has 823 reported case(s) (26th in the region) and 0 reported death(s) (47th). Cumulative counts per 10,000 population of reported cases and deaths are 0.19 (41st) and 0 (47th) respectively. The doubling time of reported cases over the last 7 days is 135.3 days (38th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

United Republic of Tanzania



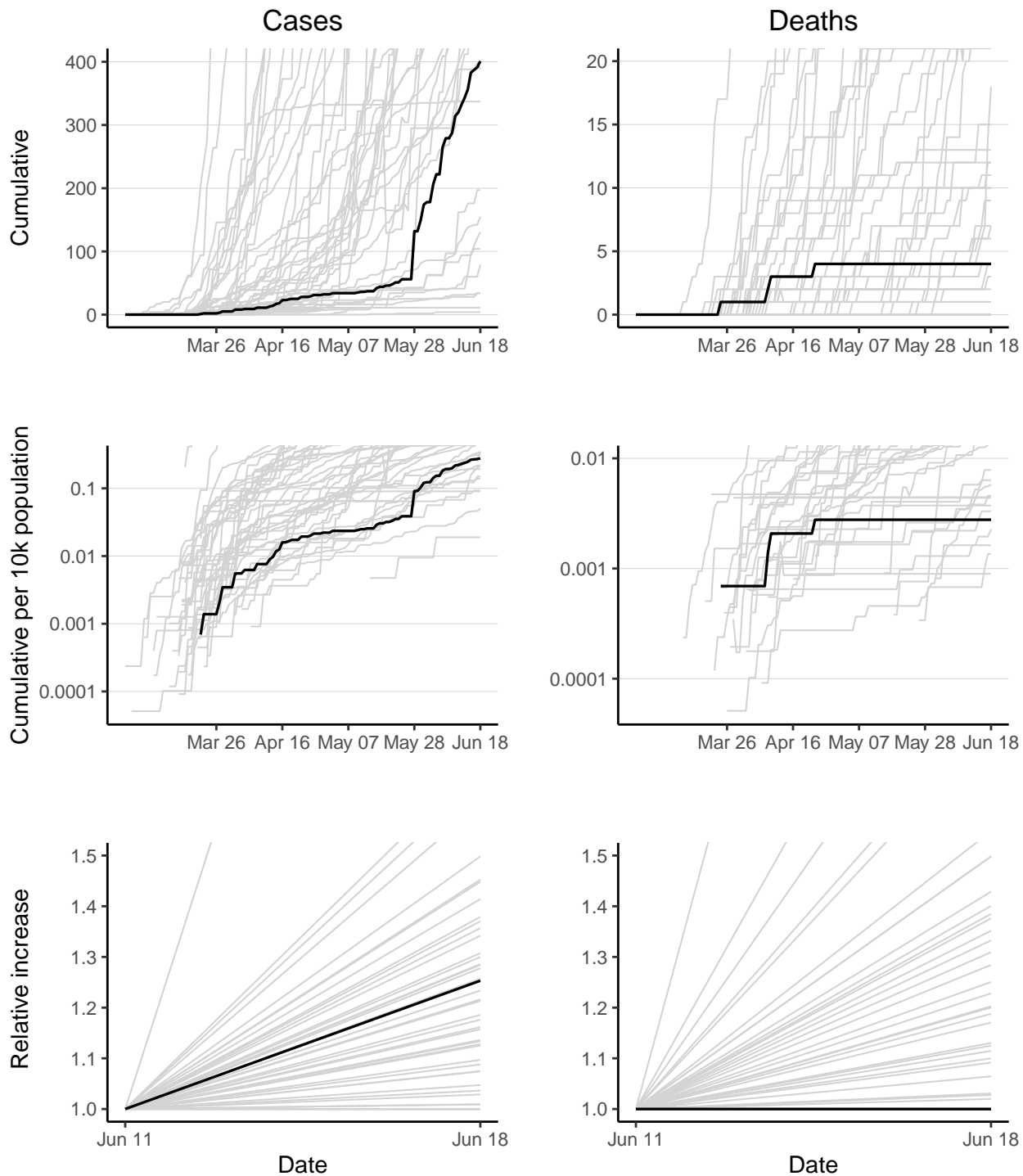
United Republic of Tanzania has 509 reported case(s) (35th in the region) and 21 reported death(s) (22nd). Cumulative counts per 10,000 population of reported cases and deaths are 0.09 (45th) and 0.0037 (36th) respectively. The doubling time of reported cases cannot be calculated as no new cases have 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 1412 reported case(s) (18th in the region) and 11 reported death(s) (28th). Cumulative counts per 10,000 population of reported cases and deaths are 0.81 (25th) and 0.0063 (31st) respectively. The doubling times of reported cases and deaths over the last 7 days are 40.3 days (31st) and 50.9 days (26th).

Zimbabwe



Zimbabwe has 401 reported case(s) (36th in the region) and 4 reported death(s) (37th). Cumulative counts per 10,000 population of reported cases and deaths are 0.28 (38th) and 0.0028 (38th) respectively. The doubling time of reported cases over the last 7 days is 21.5 days (20th). 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 18/06/2020).
- 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 18/06/2020).
- Population counts from the World Bank (2018) <https://data.worldbank.org/indicator/SP.POP.TOTL?locations=ZG> (accessed 0900 30/03/2020).
- Sequenced SARS-CoV-2 genomes for countries in WHO Africa Region are from GISAID (accessed 2400 18/06/2020)

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	80412	79964	80902
Nigeria	17735	NA	NA
Ghana	12590	12406	12777
Algeria	11268	11084	11438
Cameroon	9864	NA	NA
Cote d'Ivoire	6063	5947	6189
Senegal	5369	NA	NA
Democratic Republic of the Congo	5099	4976	5214
Guinea	4668	4562	4777
Gabon	4229	4123	4342
Kenya	4044	3937	4143
Ethiopia	3759	3659	3867
Central African Republic	2564	2481	2648
Mauritania	2057	1982	2136
Mali	1890	1820	1967
South Sudan	1807	1738	1876
Guinea-Bissau	1492	1429	1557
Zambia	1412	1347	1475
Madagascar	1378	NA	NA
Sierra Leone	1249	1192	1302
Equatorial Guinea	1043	984	1093
Niger	1020	968	1072
Burkina Faso	899	853	949
Congo	883	835	931
Chad	854	805	904
Uganda	823	NA	NA
Cabo Verde	792	747	838
Mozambique	651	611	695
Rwanda	639	599	681
Benin	572	NA	NA
Malawi	572	533	610
Eswatini	563	524	604
Togo	537	500	575
Liberia	516	478	553
United Republic of Tanzania	509	472	546
Zimbabwe	401	370	435
Sao Tome and Principe	388	NA	NA
Mauritius	337	NA	NA
Comoros	197	175	221
Angola	155	135	176
Eritrea	131	112	150
Burundi	104	88	120
Botswana	79	64	93
Gambia	34	25	44
Namibia	34	25	45
Seychelles	11	6	17
Lesotho	4	1	7

Cumulative reported cases per 10,000 population

Country	Cum. reported cases per 10k pop	95%CI lower	95%CI upper
Gabon	19.9549374	19	20
Sao Tome and Principe	18.3861857	NA	NA
Cabo Verde	14.5650619	14	15
South Africa	13.9170173	14	14
Equatorial Guinea	7.9680727	8	8
Guinea-Bissau	7.9602670	8	8
Central African Republic	5.4946268	5	6
Mauritania	4.6714762	5	5
Ghana	4.2295006	4	4
Eswatini	4.1185077	4	4
Cameroon	3.9117653	NA	NA
Guinea	3.7601743	4	4
Senegal	3.3864502	NA	NA
Algeria	2.6683446	3	3
Mauritius	2.6633937	NA	NA
Cote d'Ivoire	2.4185028	2	2
Comoros	2.3668724	2	3
Congo	1.6837126	2	2
South Sudan	1.6463312	2	2
Sierra Leone	1.6326469	2	2
Seychelles	1.1368099	1	2
Liberia	1.0707667	1	1
Mali	0.9906860	1	1
Nigeria	0.9054256	NA	NA
Zambia	0.8137474	1	1
Kenya	0.7868774	1	1
Togo	0.6806865	1	1
Democratic Republic of the Congo	0.6065322	1	1
Chad	0.5517597	1	1
Madagascar	0.5247052	NA	NA
Rwanda	0.5194303	0	1
Benin	0.4980388	NA	NA
Burkina Faso	0.4551545	0	0
Niger	0.4544857	0	0
Botswana	0.3504684	0	0
Ethiopia	0.3441534	0	0
Malawi	0.3152676	0	0
Zimbabwe	0.2777197	0	0
Mozambique	0.2207082	0	0
Eritrea	0.2165289	0	0
Uganda	0.1926357	NA	NA
Gambia	0.1491161	0	0
Namibia	0.1388744	0	0
Burundi	0.0930617	0	0
United Republic of Tanzania	0.0903791	0	0
Angola	0.0503087	0	0
Lesotho	0.0189741	0	0

Cumulative deaths

Country	Cum. reported deaths	95%CI lower	95%CI upper
South Africa	1674	NA	NA
Algeria	799	754	845
Nigeria	469	434	508
Cameroon	276	249	305
Democratic Republic of the Congo	114	97	131
Kenya	107	NA	NA
Mali	107	90	125
Mauritania	93	78	109
Chad	74	60	90
Senegal	73	59	88
Niger	67	54	81
Ghana	66	52	80
Ethiopia	63	50	76
Burkina Faso	53	41	65
Sierra Leone	51	40	64
Cote d'Ivoire	48	37	59
Liberia	33	24	42
South Sudan	31	NA	NA
Gabon	30	21	40
Congo	27	NA	NA
Guinea	26	18	34
United Republic of Tanzania	21	14	28
Central African Republic	18	12	25
Guinea-Bissau	15	9	22
Togo	13	7	20
Equatorial Guinea	12	7	18
Madagascar	12	7	18
Zambia	11	6	17
Mauritius	10	5	15
Sao Tome and Principe	10	NA	NA
Benin	9	NA	NA
Angola	7	3	12
Cabo Verde	7	3	12
Malawi	6	2	10
Eswatini	4	1	8
Mozambique	4	1	7
Zimbabwe	4	1	8
Comoros	3	0	6
Rwanda	2	0	4
Botswana	1	0	3
Burundi	1	0	3
Gambia	1	0	3
Eritrea	0	0	0
Lesotho	0	0	0
Namibia	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
South Africa	0.2897215	NA	NA
Mauritania	0.2112043	0	0
Algeria	0.1892090	0	0
Gabon	0.1415578	0	0
Cabo Verde	0.1287316	0	0
Cameroon	0.1094533	0	0
Equatorial Guinea	0.0916749	0	0
Guinea-Bissau	0.0800295	0	0
Mauritius	0.0790325	0	0
Liberia	0.0684793	0	0
Sierra Leone	0.0666653	0	0
Mali	0.0560865	0	0
Congo	0.0514839	NA	NA
Chad	0.0478106	0	0
Senegal	0.0460441	0	0
Central African Republic	0.0385738	0	0
Comoros	0.0360437	0	0
Niger	0.0298535	0	0
Eswatini	0.0292612	0	0
South Sudan	0.0282436	NA	NA
Burkina Faso	0.0268334	0	0
Nigeria	0.0239439	0	0
Ghana	0.0221721	0	0
Guinea	0.0209436	0	0
Kenya	0.0208200	NA	NA
Cote d'Ivoire	0.0191470	0	0
Togo	0.0164784	0	0
Democratic Republic of the Congo	0.0135604	0	0
Benin	0.0078363	NA	NA
Zambia	0.0063394	0	0
Ethiopia	0.0057679	0	0
Madagascar	0.0045693	0	0
Botswana	0.0044363	0	0
Gambia	0.0043858	0	0
United Republic of Tanzania	0.0037288	0	0
Malawi	0.0033070	0	0
Zimbabwe	0.0027703	0	0
Angola	0.0022720	0	0
Rwanda	0.0016258	0	0
Mozambique	0.0013561	0	0
Burundi	0.0008948	0	0
Eritrea	0.0000000	0	0
Lesotho	0.0000000	0	0
Namibia	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
Eritrea	4.2	3.5	5.0
Benin	9.3	NA	NA
Botswana	9.7	7.4	13.6
Mauritania	10.3	9.7	10.9
Ethiopia	12.0	11.4	12.5
South Africa	13.0	12.9	13.2
Cote d'Ivoire	13.1	12.6	13.5
Eswatini	14.0	12.4	15.9
Mozambique	15.1	13.4	17.1
Angola	15.4	12.2	20.2
Central African Republic	15.9	14.9	17.0
Rwanda	16.5	14.6	18.8
Kenya	18.1	17.2	19.0
Liberia	18.5	15.9	21.7
Cabo Verde	19.3	17.1	22.0
Gabon	19.4	18.4	20.5
Nigeria	19.8	NA	NA
Malawi	21.2	18.3	24.8
Burundi	21.5	15.5	32.9
Zimbabwe	21.5	18.2	26.3
Ghana	23.1	22.3	23.8
Comoros	24.8	19.2	33.0
Gambia	25.0	13.8	70.3
Congo	25.1	22.2	28.7
Madagascar	28.5	NA	NA
Sierra Leone	29.9	26.8	34.1
Democratic Republic of the Congo	32.4	30.5	34.3
Senegal	33.2	NA	NA
Cameroon	38.0	NA	NA
Mali	38.6	34.8	43.1
Zambia	40.3	35.9	46.0
South Sudan	41.1	37.0	46.3
Namibia	52.5	24.5	196.7
Guinea	57.6	53.3	62.7
Algeria	67.3	63.5	71.4
Guinea-Bissau	67.8	58.4	80.7
Niger	105.1	84.3	135.1
Uganda	135.3	NA	NA
Togo	171.3	120.0	267.8
Chad	515.5	323.0	1071.3
Burkina Faso	542.8	333.1	1093.0
Equatorial Guinea	NA	Inf	Inf
Lesotho	NA	Inf	Inf
Mauritius	NA	NA	NA
Seychelles	NA	Inf	Inf
United Republic of Tanzania	NA	Inf	Inf

Doubling time (deaths)

Country	Doubling time (days)	95%CI lower	95%CI upper
Central African Republic	3.8	2.2	6.3
Benin	6.0	NA	NA
Mozambique	7.0	3.5	Inf
Ethiopia	8.3	6.1	11.7
Angola	8.7	3.5	Inf
South Sudan	11.1	NA	NA
Comoros	12.0	4.4	Inf
Malawi	12.0	4.4	Inf
Gabon	13.6	7.9	25.6
Cabo Verde	14.4	5.6	Inf
South Africa	14.9	NA	NA
Ghana	15.2	10.6	24.8
Senegal	16.1	11.4	24.4
Eswatini	16.9	5.3	Inf
Mauritania	18.0	13.2	26.9
Cameroon	19.4	15.8	24.1
Guinea-Bissau	21.7	10.0	Inf
Nigeria	23.6	20.0	28.1
Kenya	26.3	NA	NA
Madagascar	26.6	10.3	Inf
Democratic Republic of the Congo	28.2	19.9	43.6
Cote d'Ivoire	30.8	18.6	72.8
Guinea	39.6	19.0	152.8
Congo	41.2	NA	NA
Mali	44.7	28.5	82.5
Zambia	50.9	15.2	Inf
Algeria	55.4	45.6	68.1
Liberia	77.6	32.7	Inf
Niger	160.1	67.4	Inf
Chad	177.1	73.2	Inf
Sierra Leone	245.0	84.8	Inf
Botswana	NA	Inf	Inf
Burkina Faso	NA	Inf	Inf
Burundi	NA	Inf	Inf
Equatorial Guinea	NA	Inf	Inf
Gambia	NA	Inf	Inf
Mauritius	NA	Inf	Inf
Rwanda	NA	Inf	Inf
Sao Tome and Principe	NA	NA	NA
Togo	NA	Inf	Inf
United Republic of Tanzania	NA	Inf	Inf
Zimbabwe	NA	Inf	Inf
Eritrea	NA	NA	NA
Lesotho	NA	NA	NA
Namibia	NA	NA	NA
Seychelles	NA	NA	NA
Uganda	NA	NA	NA