

COVID-19 situation report for WHO Africa Region  
03/07/2020

Produced by the TIBA COVID-19 Pandemic Response Unit



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## Section 1: Overview of WHO Africa Region 02/07/2020

### Overview



**Total Reported Cases**  
**315261**

**Total Reported Deaths**  
**6303**

## Methods

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

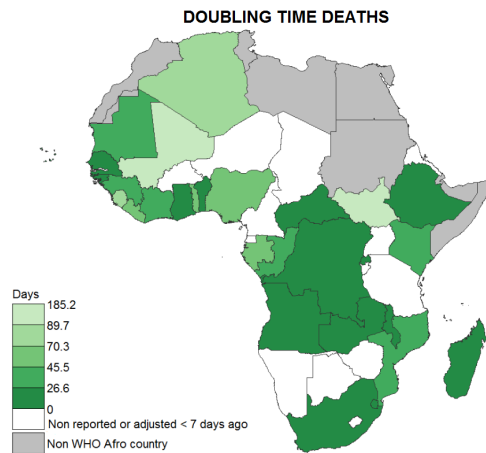
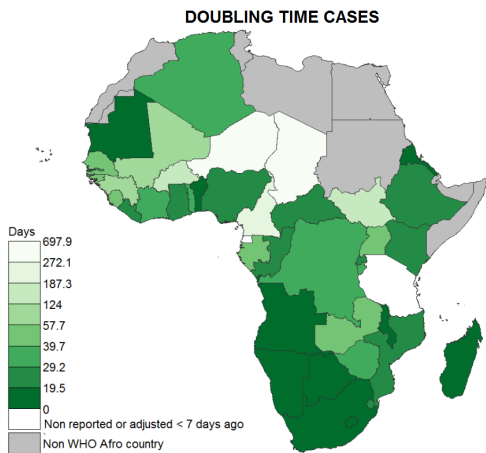
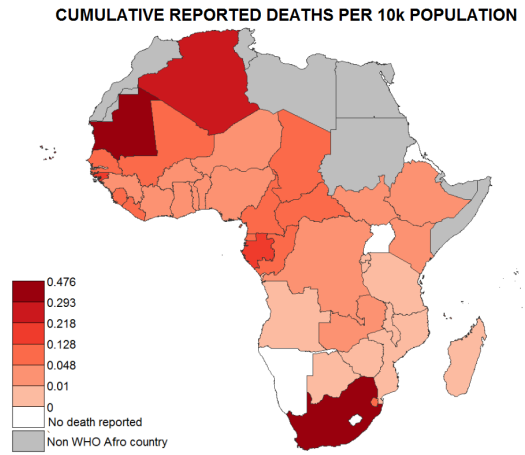
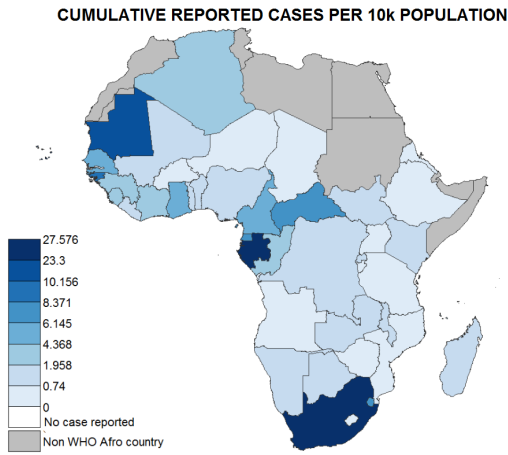
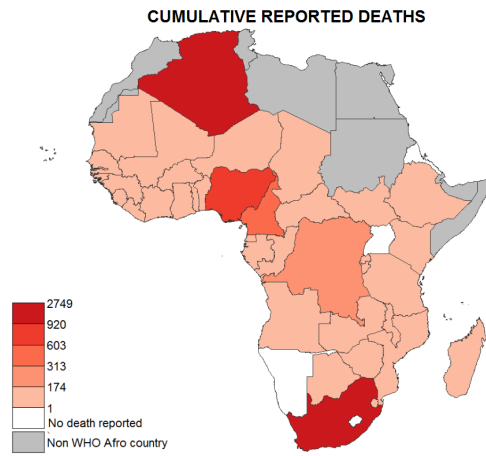
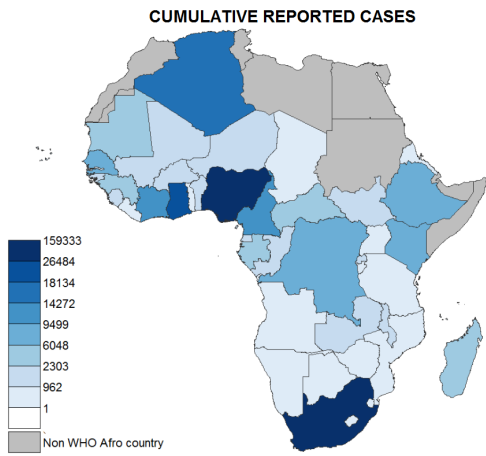
The maps below summarise the in-country situations:

- 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 02/07/2020. 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



## Section 2: Individual country situations

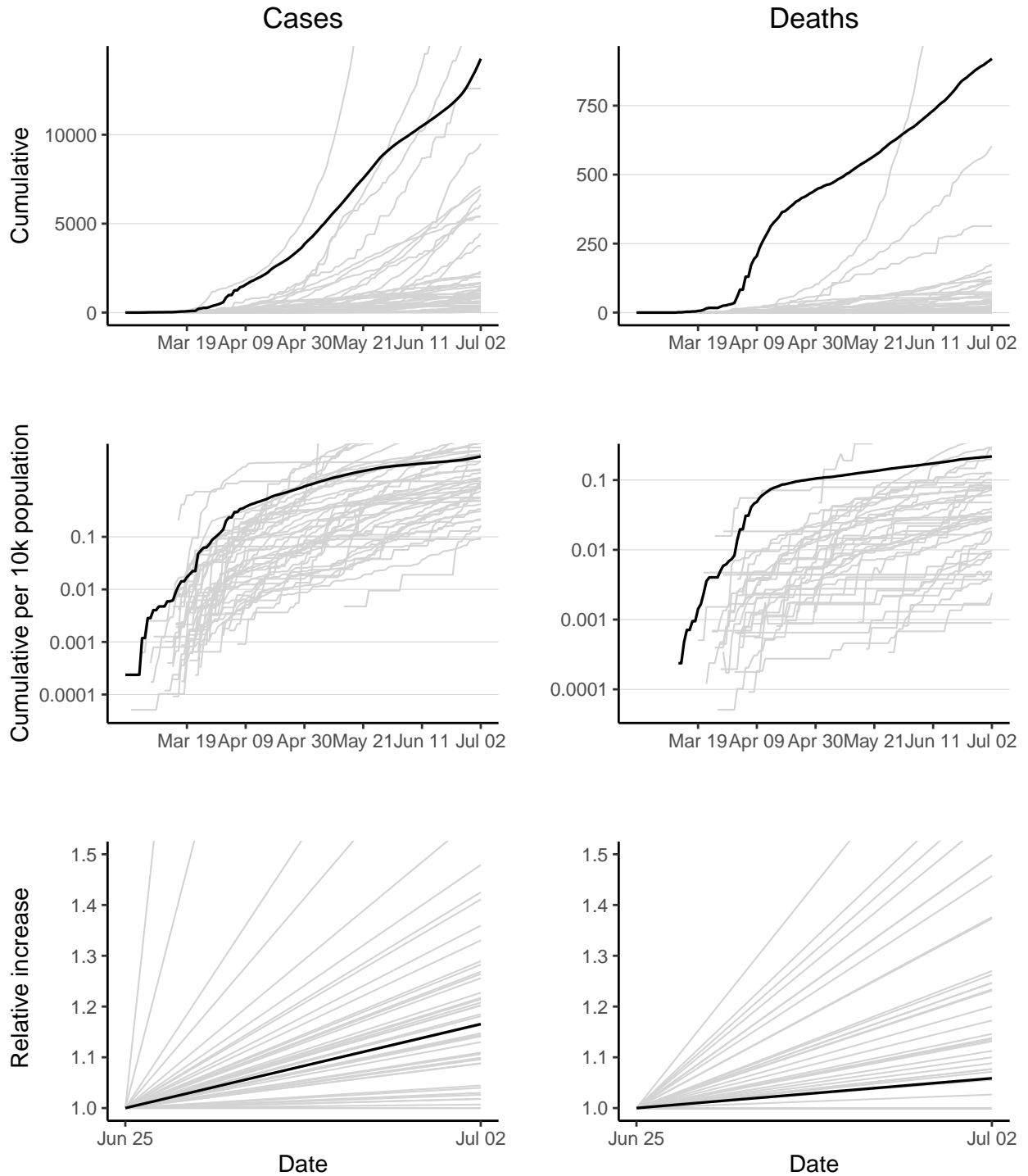
As of 02/07/2020, each panel below shows for each country:

- 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 02/07/2020. 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.

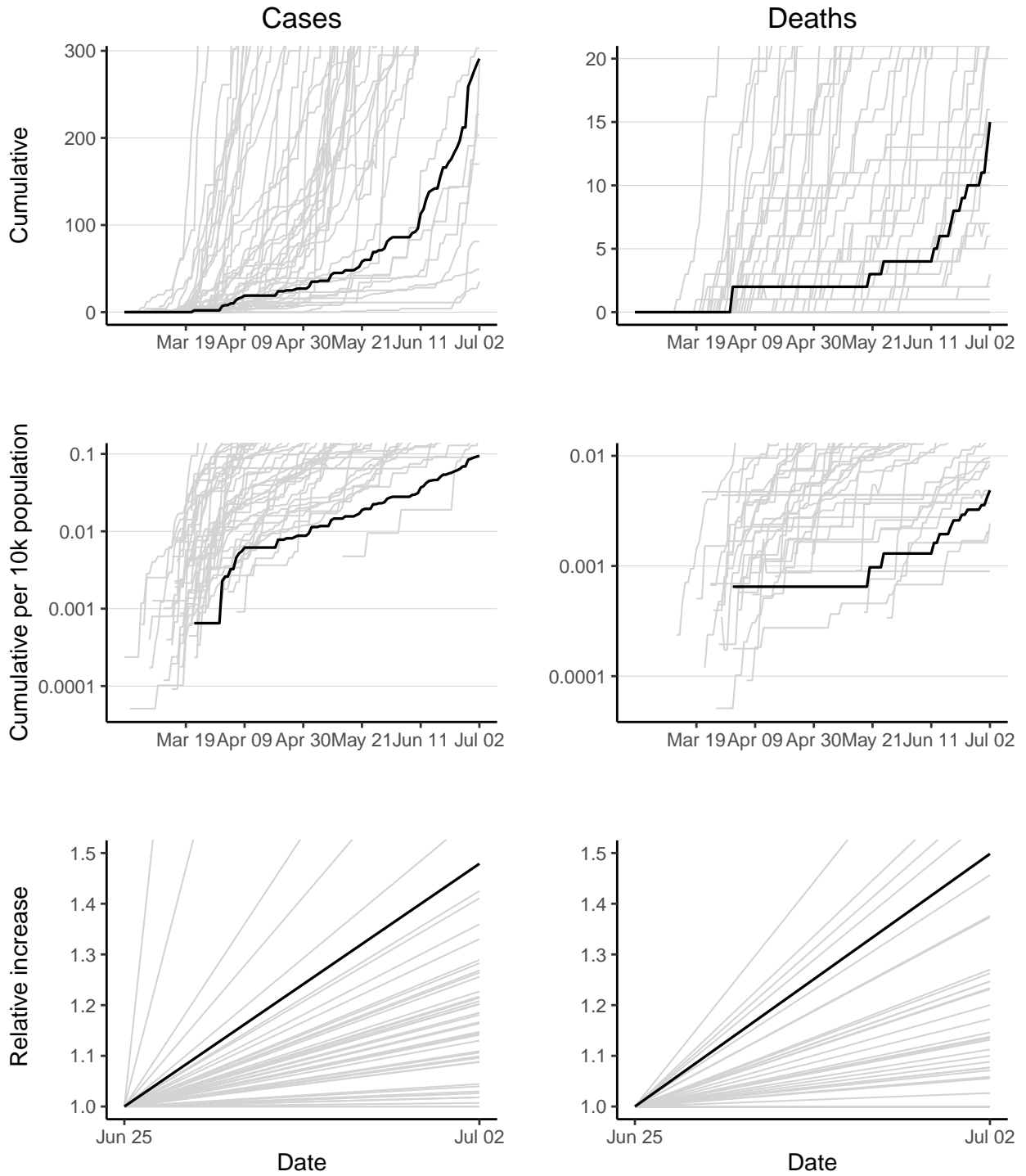
# Algeria



Algeria has 14272 reported case(s) (4th in the region) and 920 reported death(s) (2nd). Cumulative counts per 10,000 population of reported cases and deaths are 3.4 (17th) and 0.22 (5th) respectively. The doubling times of reported cases and deaths over the last 7 days are 31.7 days (25th) and 85.1 days (28th).

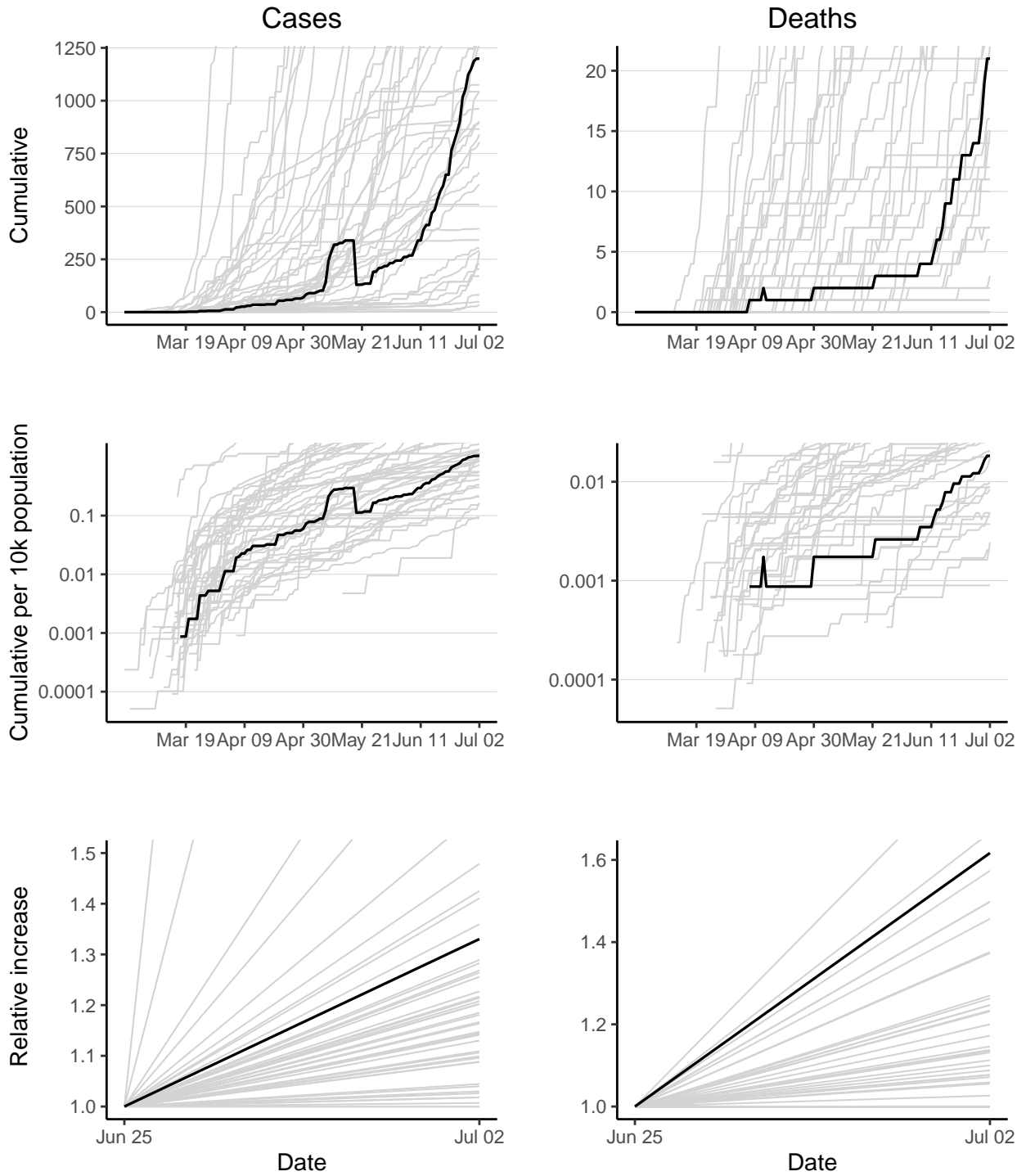


# Angola



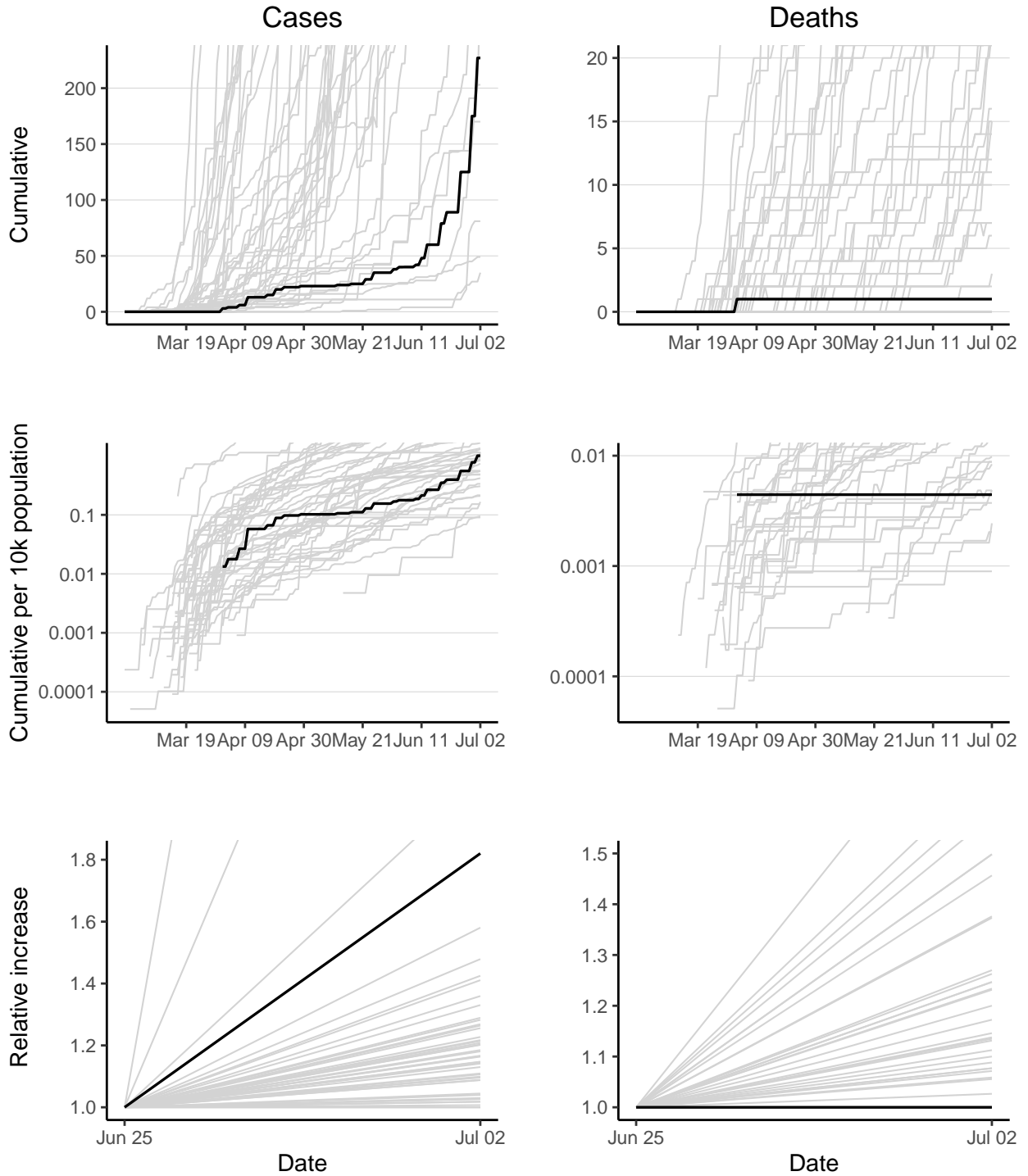
Angola has 291 reported case(s) (40th in the region) and 15 reported death(s) (29th). Cumulative counts per 10,000 population of reported cases and deaths are 0.094 (46th) and 0.0049 (36th) respectively. The doubling times of reported cases and deaths over the last 7 days are 12.4 days (6th) and 12 days (5th).

# Benin



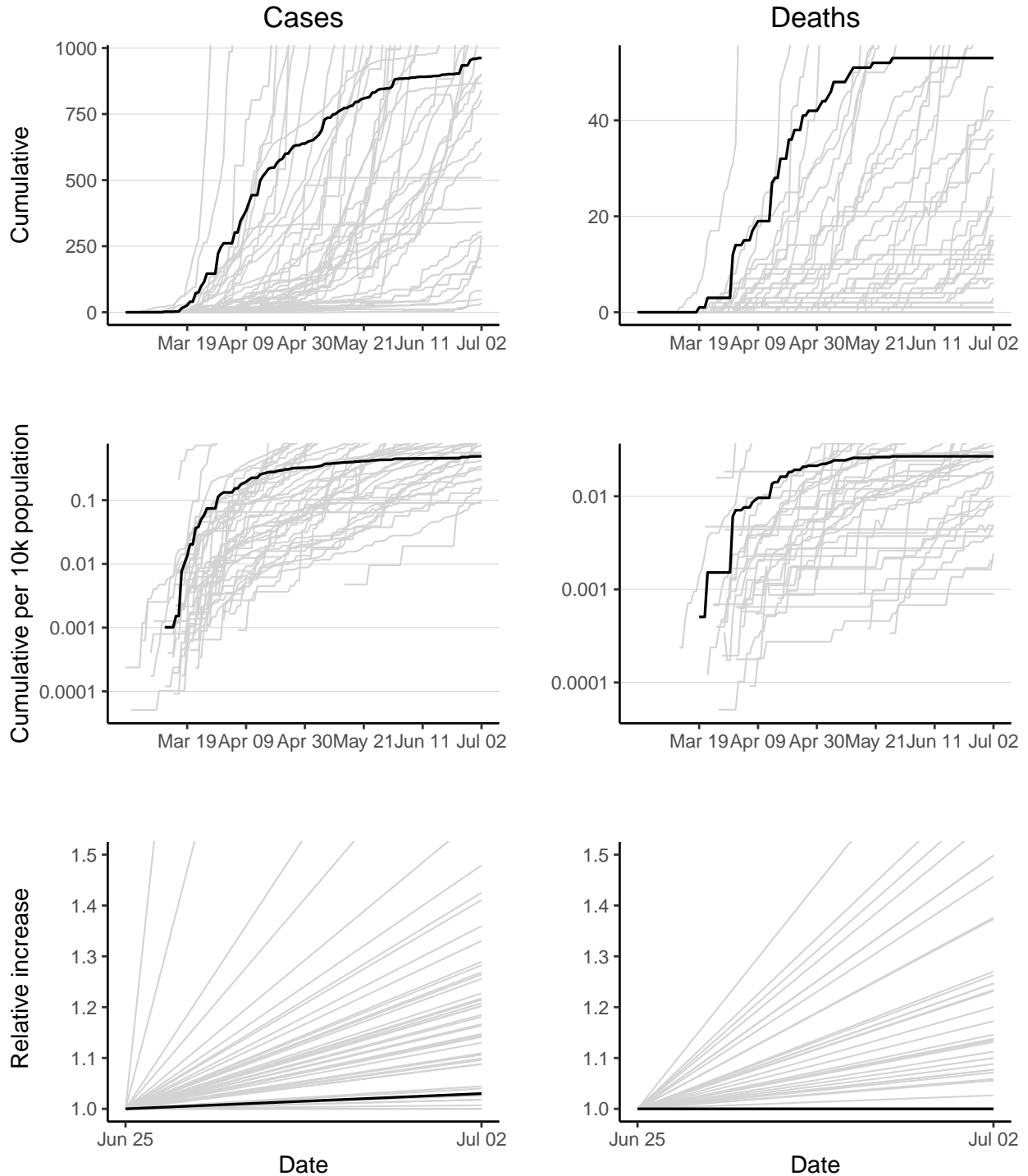
Benin has 1199 reported case(s) (24th in the region) and 21 reported death(s) (26th). Cumulative counts per 10,000 population of reported cases and deaths are 1 (27th) and 0.018 (29th) respectively. The doubling times of reported cases and deaths over the last 7 days are 17 days (10th) and 10.1 days (3rd).

# Botswana



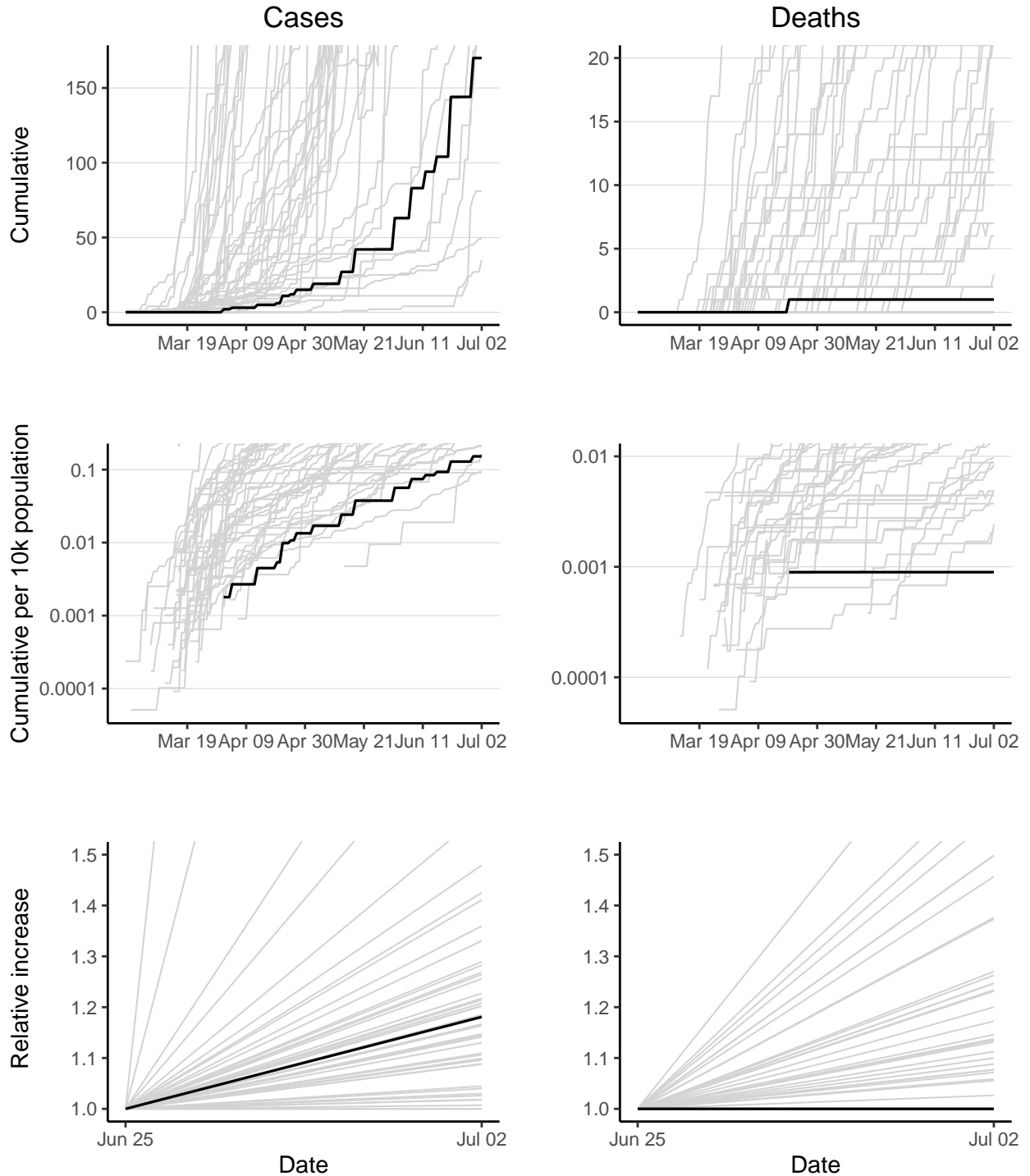
Botswana has 227 reported case(s) (42nd in the region) and 1 reported death(s) (41st). Cumulative counts per 10,000 population of reported cases and deaths are 1 (28th) and 0.0044 (38th) respectively. The doubling time of reported cases over the last 7 days is 8.1 days (4th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

# Burkina Faso



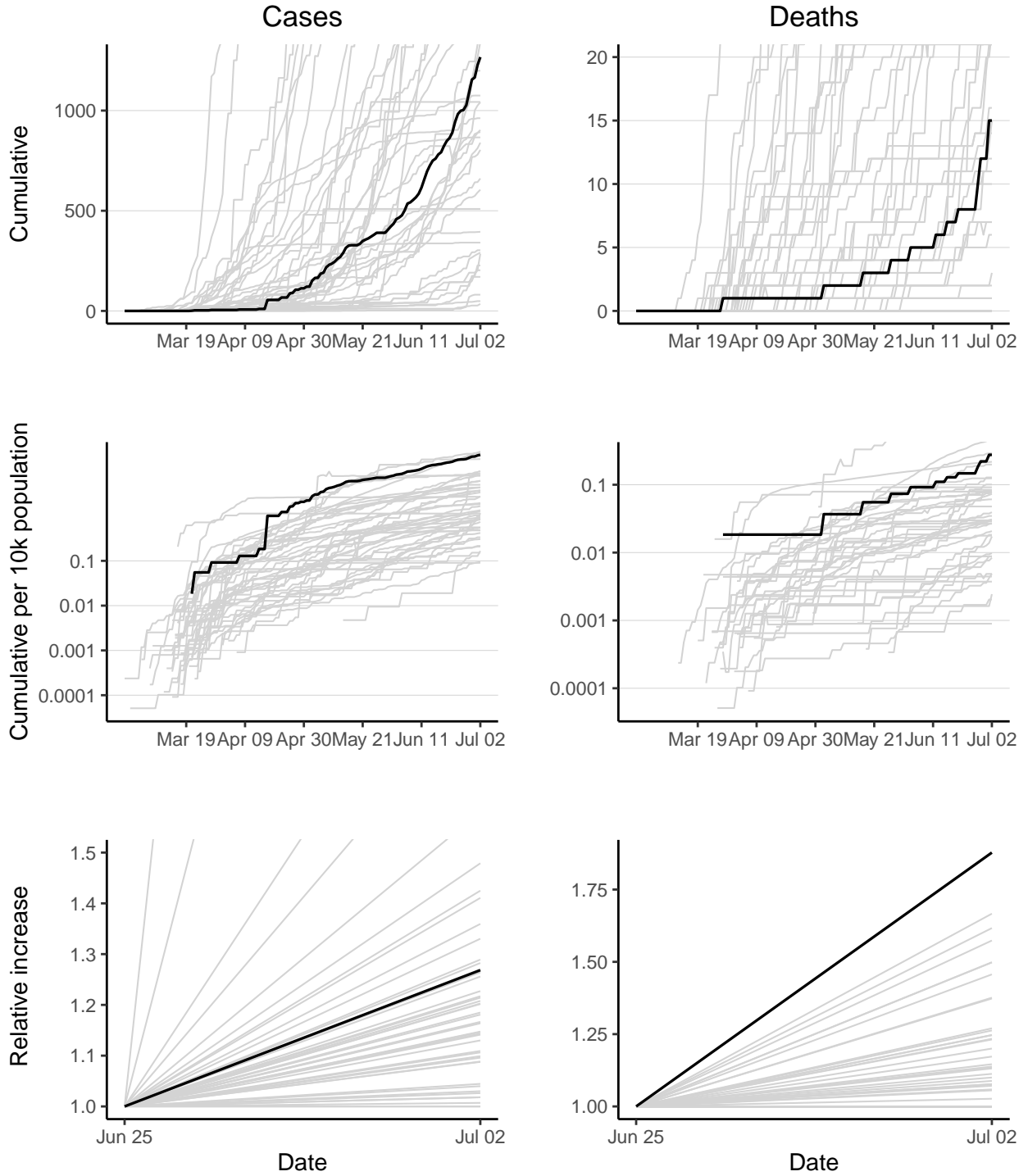
Burkina Faso has 962 reported case(s) (28th in the region) and 53 reported death(s) (16th). Cumulative counts per 10,000 population of reported cases and deaths are 0.49 (37th) and 0.027 (26th) respectively. The doubling time of reported cases over the last 7 days is 164.3 days (40th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

# Burundi



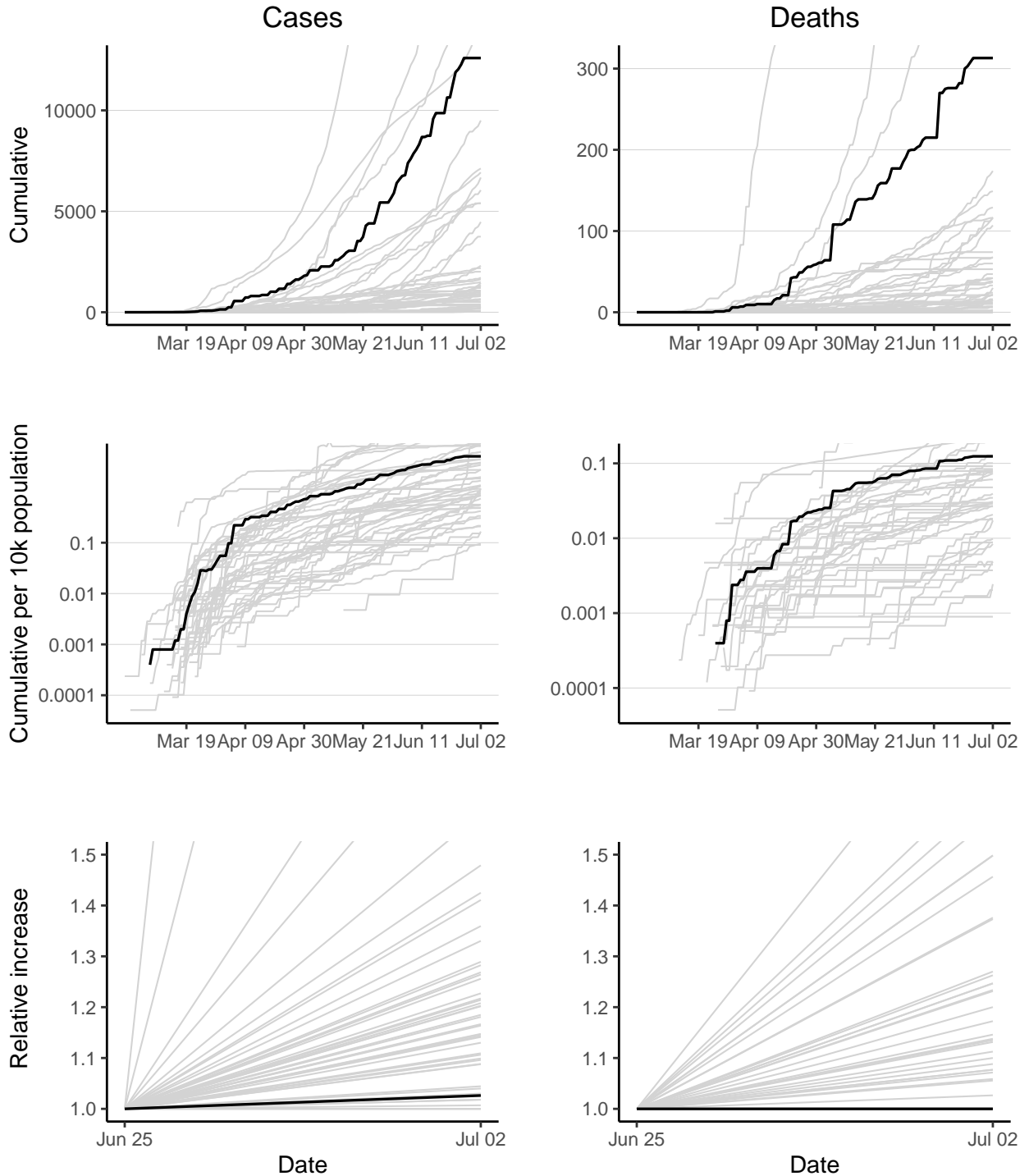
Burundi has 170 reported case(s) (44th in the region) and 1 reported death(s) (42nd). Cumulative counts per 10,000 population of reported cases and deaths are 0.015 (45th) and 0.0001 (42nd) respectively. The doubling time of reported cases over the last 7 days is 29.2 days (23rd). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

# Cabo Verde



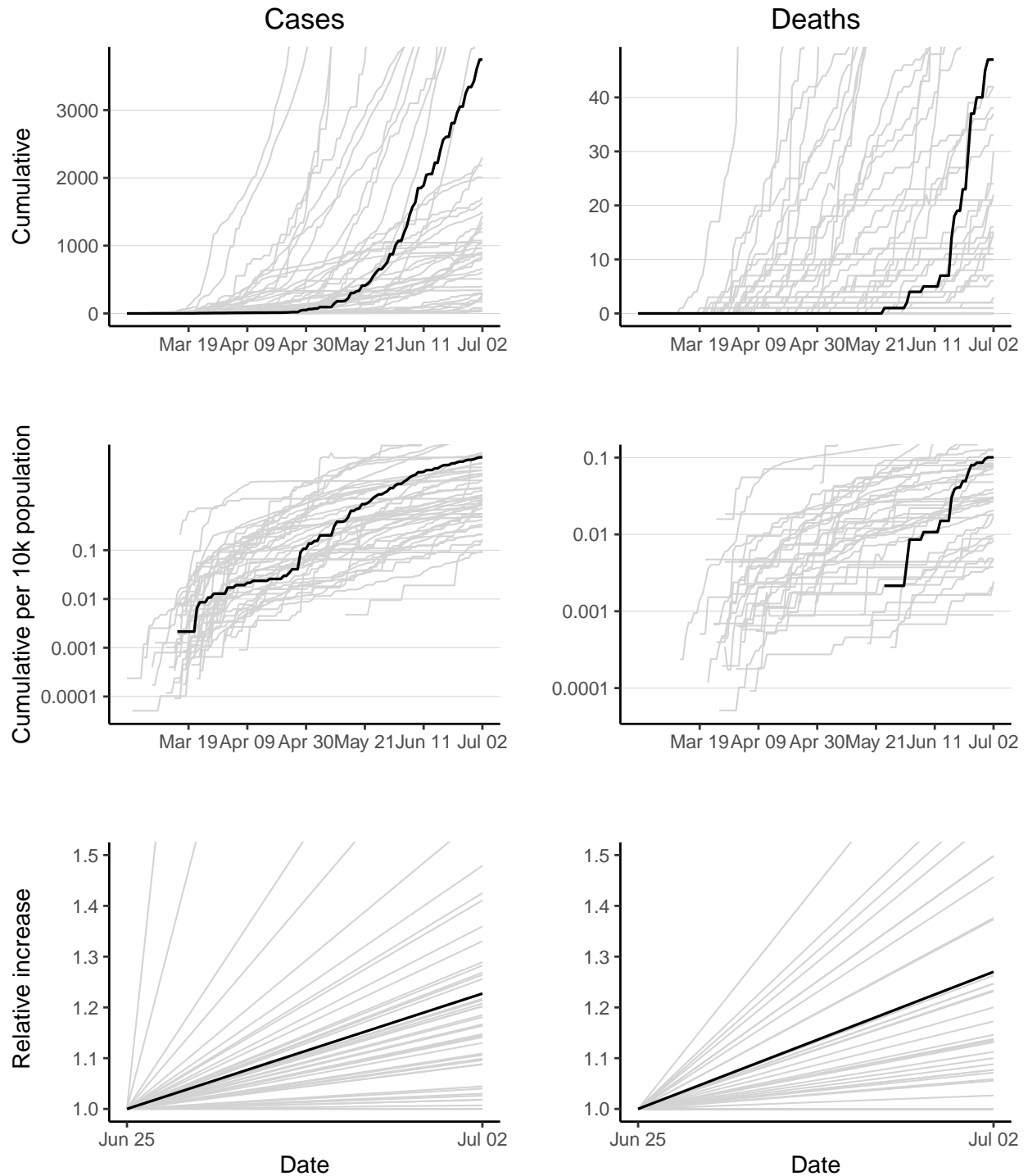
Cabo Verde has 1267 reported case(s) (23rd in the region) and 15 reported death(s) (30th). Cumulative counts per 10,000 population of reported cases and deaths are 23 (3rd) and 0.28 (4th) respectively. The doubling times of reported cases and deaths over the last 7 days are 20.4 days (13th) and 7.7 days (1st).

# Cameroon



Cameroon has 12592 reported case(s) (5th in the region) and 313 reported death(s) (4th). Cumulative counts per 10,000 population of reported cases and deaths are 5 (12th) and 0.12 (8th) respectively. The doubling time of reported cases over the last 7 days is 187.3 days (41st). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

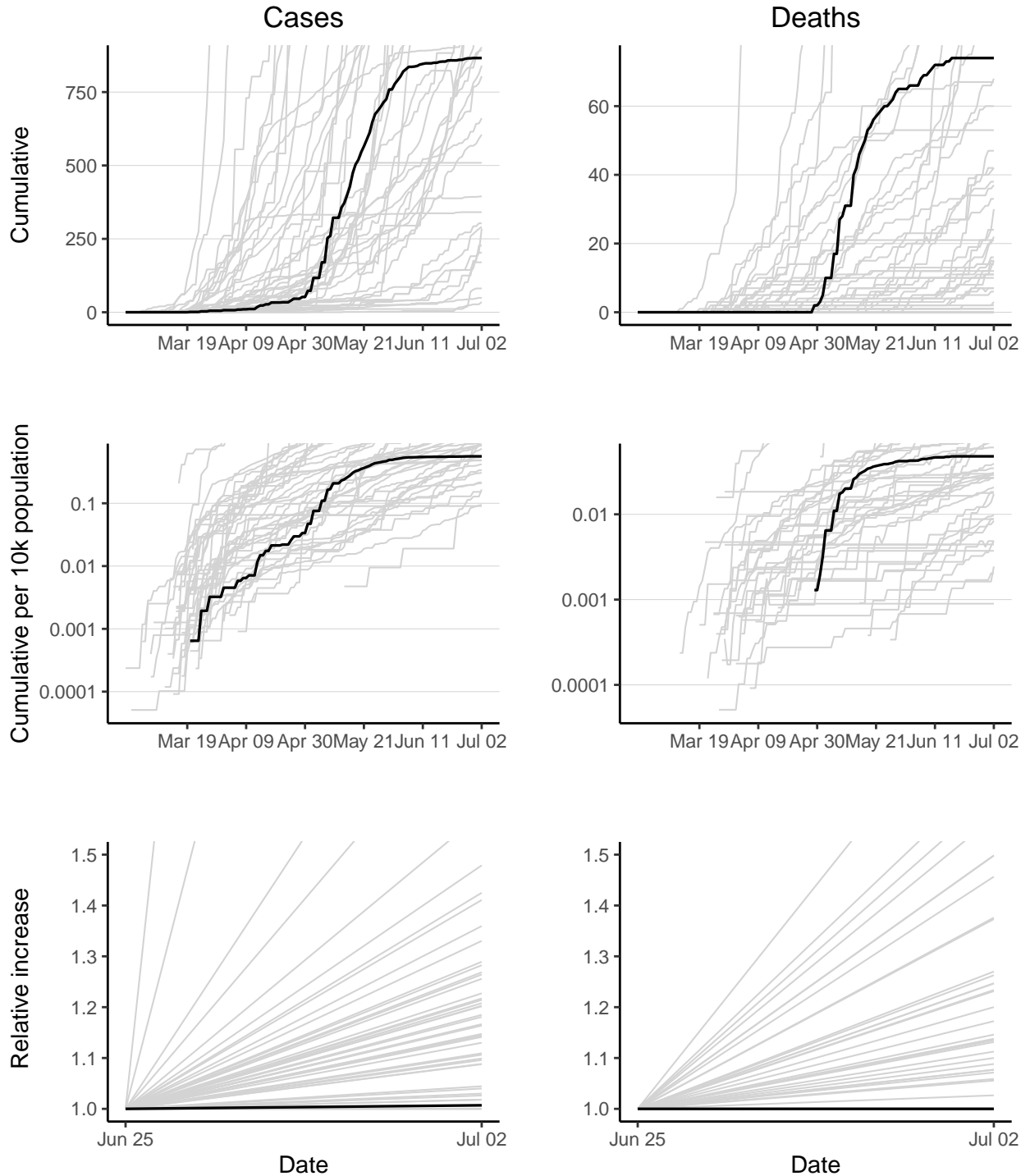
# Central African Republic



Central African Republic has 3745 reported case(s) (14th in the region) and 47 reported death(s) (17th). Cumulative counts per 10,000 population of reported cases and deaths are 8 (8th) and 0.1 (9th) respectively. The doubling times of reported cases and deaths over the last 7 days are 23.7 days (16th) and 20.3 days (10th).

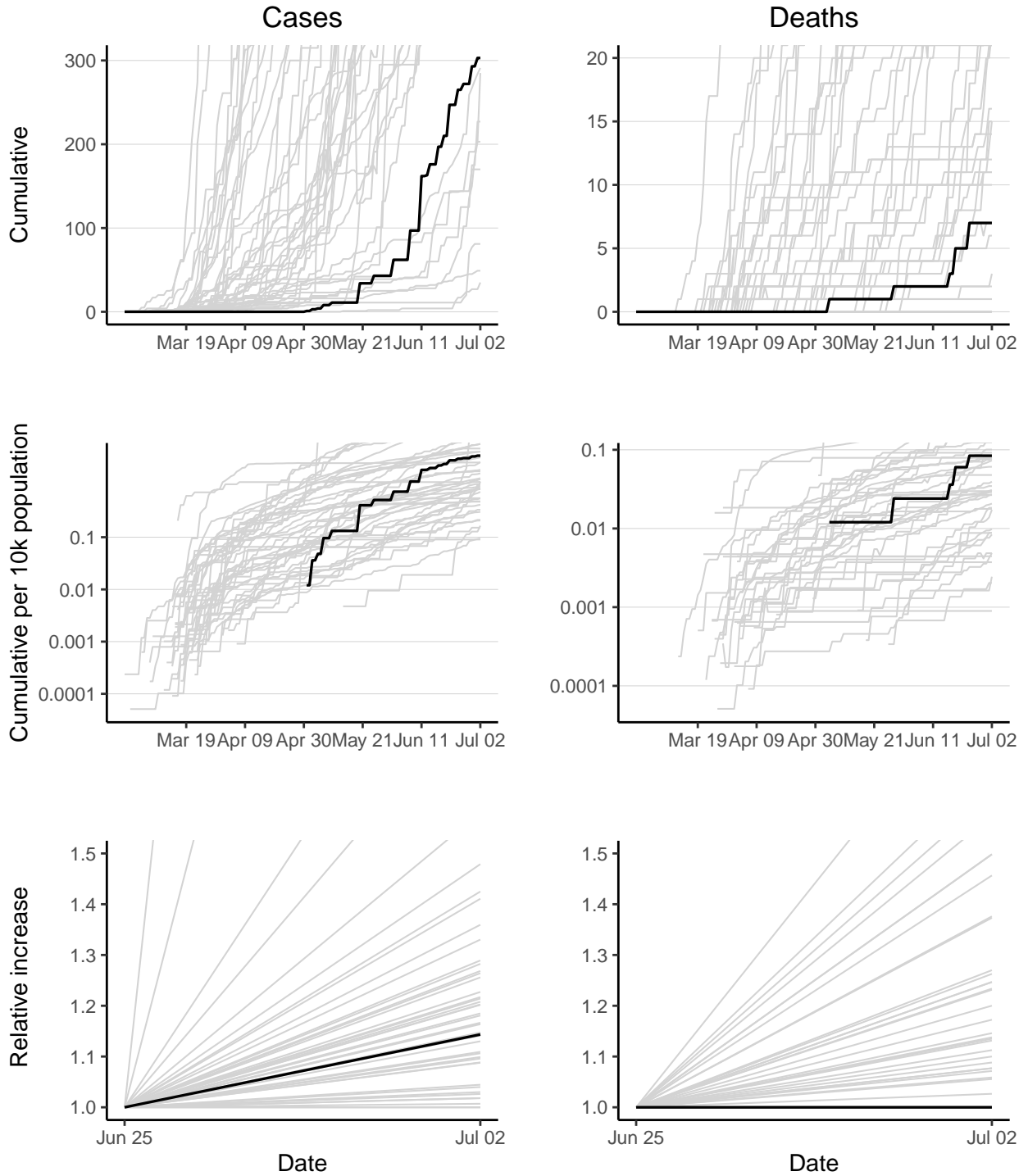


# Chad



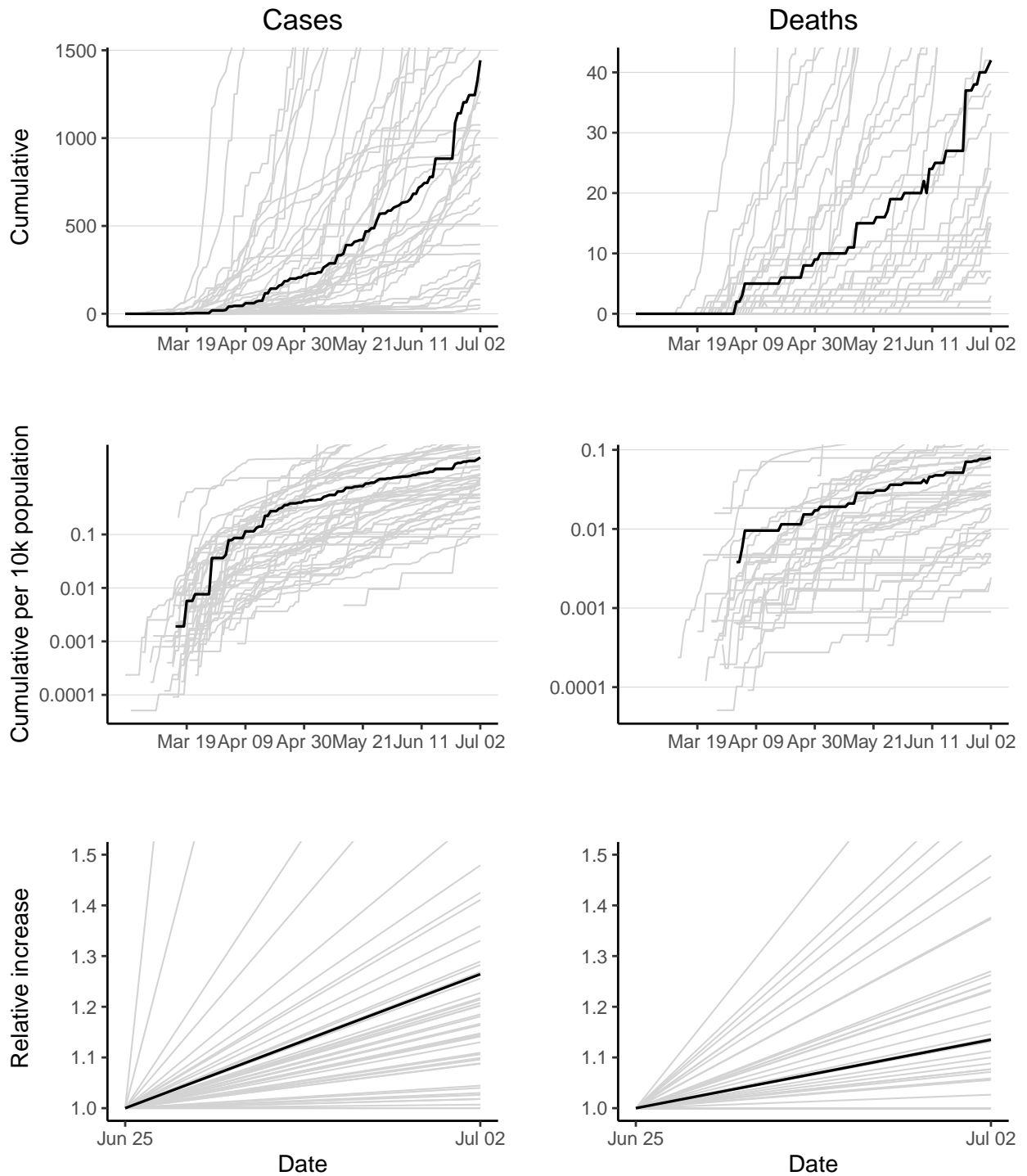
Chad has 866 reported case(s) (31st in the region) and 74 reported death(s) (12th). Cumulative counts per 10,000 population of reported cases and deaths are 0.56 (35th) and 0.048 (19th) respectively. The doubling time of reported cases over the last 7 days is 697.9 days (44th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

# Comoros



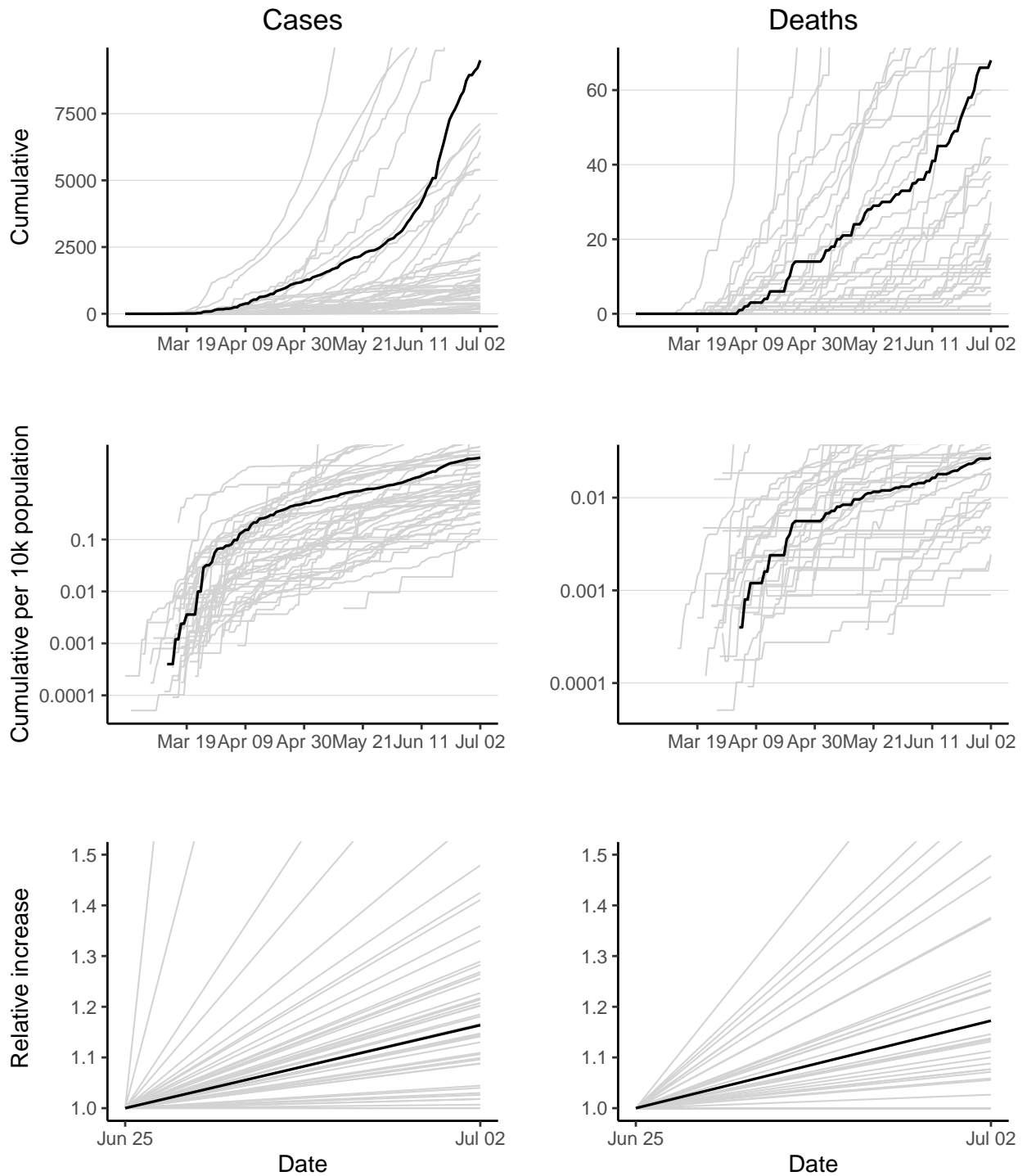
Comoros has 303 reported case(s) (39th in the region) and 7 reported death(s) (36th). Cumulative counts per 10,000 population of reported cases and deaths are 3.6 (16th) and 0.084 (11th) respectively. The doubling time of reported cases over the last 7 days is 36.2 days (29th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

# Congo



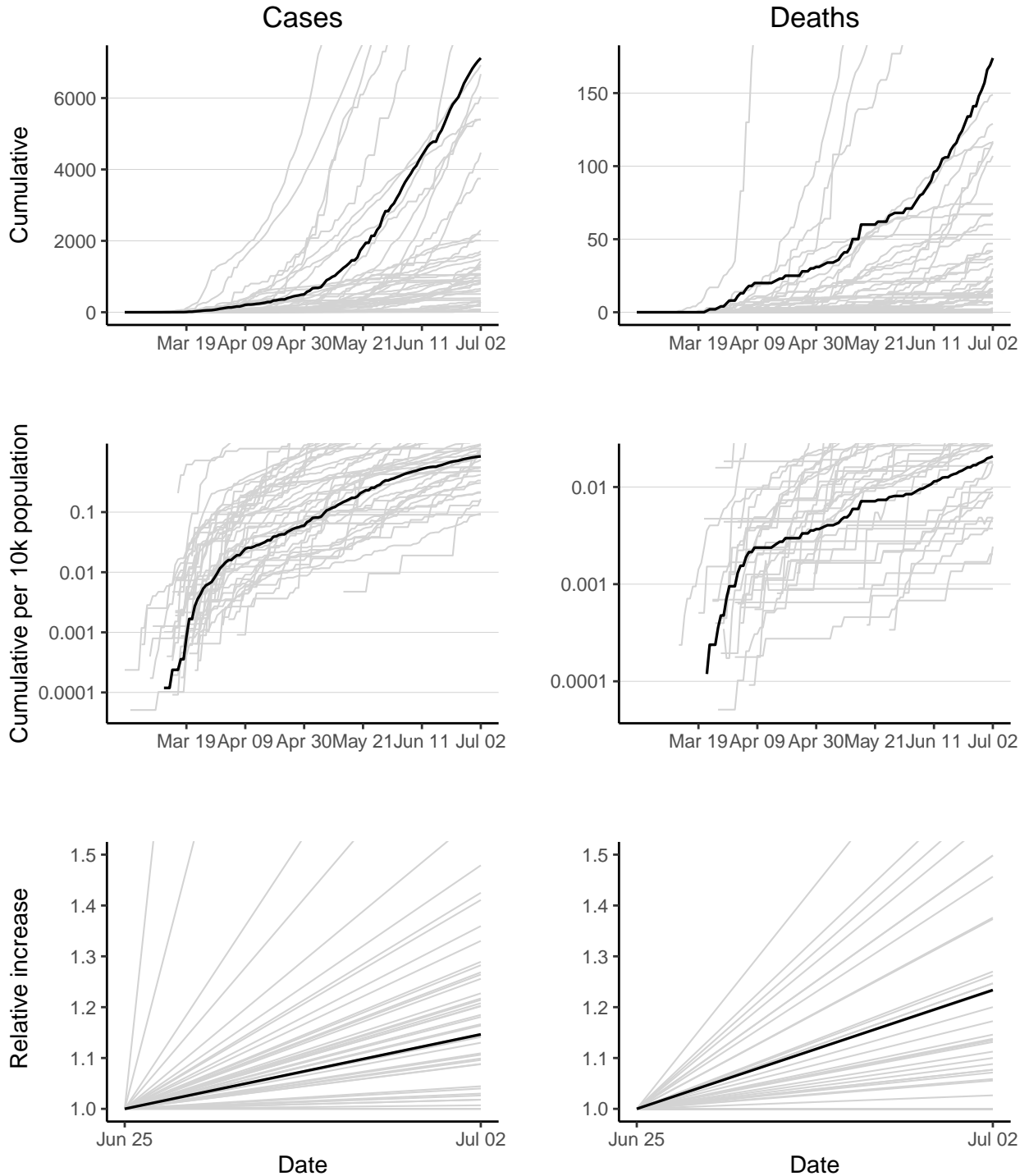
Congo has 1443 reported case(s) (21st in the region) and 42 reported death(s) (18th). Cumulative counts per 10,000 population of reported cases and deaths are 2.8 (18th) and 0.08 (13th) respectively. The doubling times of reported cases and deaths over the last 7 days are 20.7 days (14th) and 38.3 days (20th).

# Cote d'Ivoire



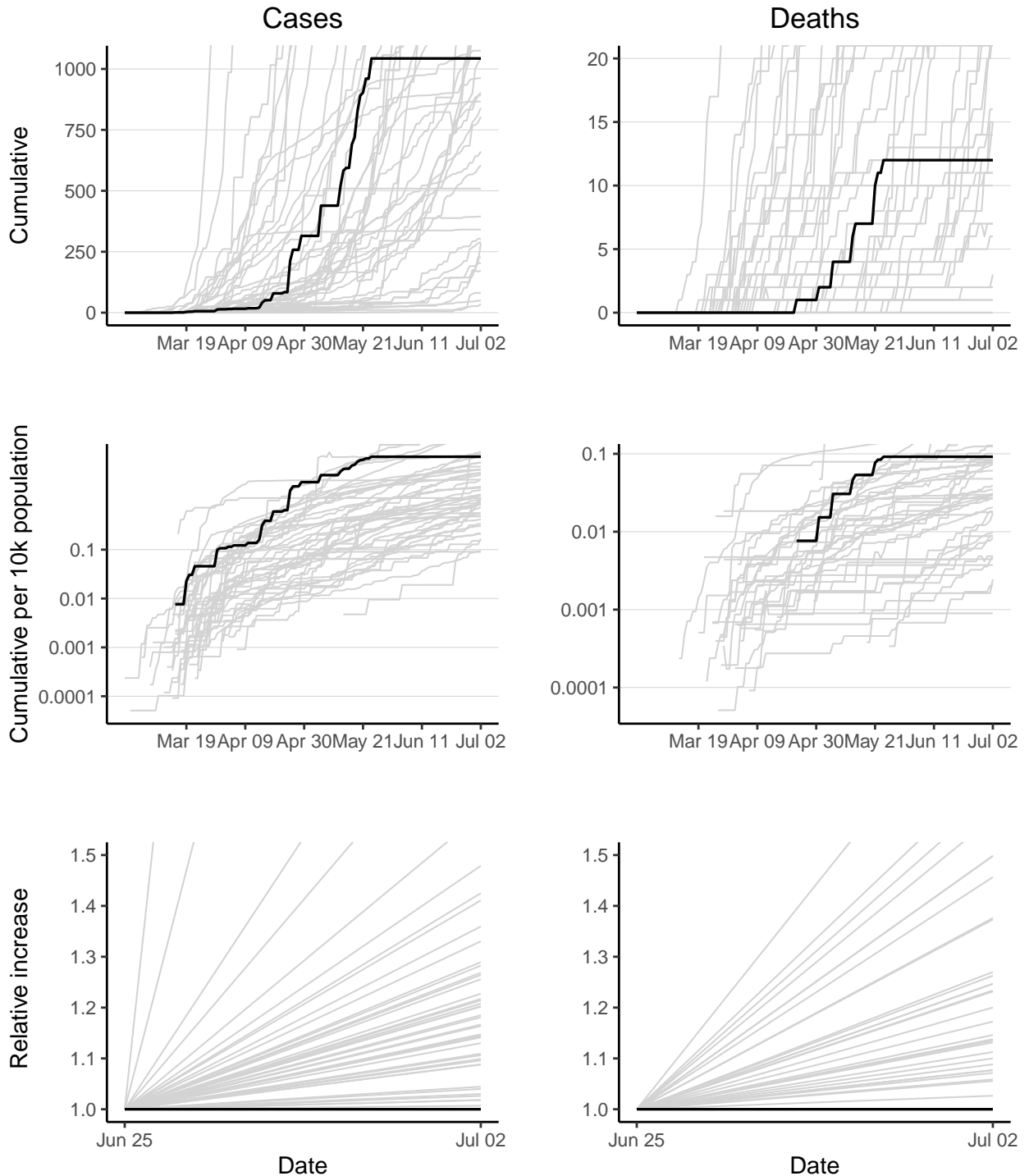
Cote d'Ivoire has 9499 reported case(s) (6th in the region) and 68 reported death(s) (13th). Cumulative counts per 10,000 population of reported cases and deaths are 3.8 (15th) and 0.027 (25th) respectively. The doubling times of reported cases and deaths over the last 7 days are 32 days (26th) and 30.5 days (17th).

# Democratic Republic of the Congo



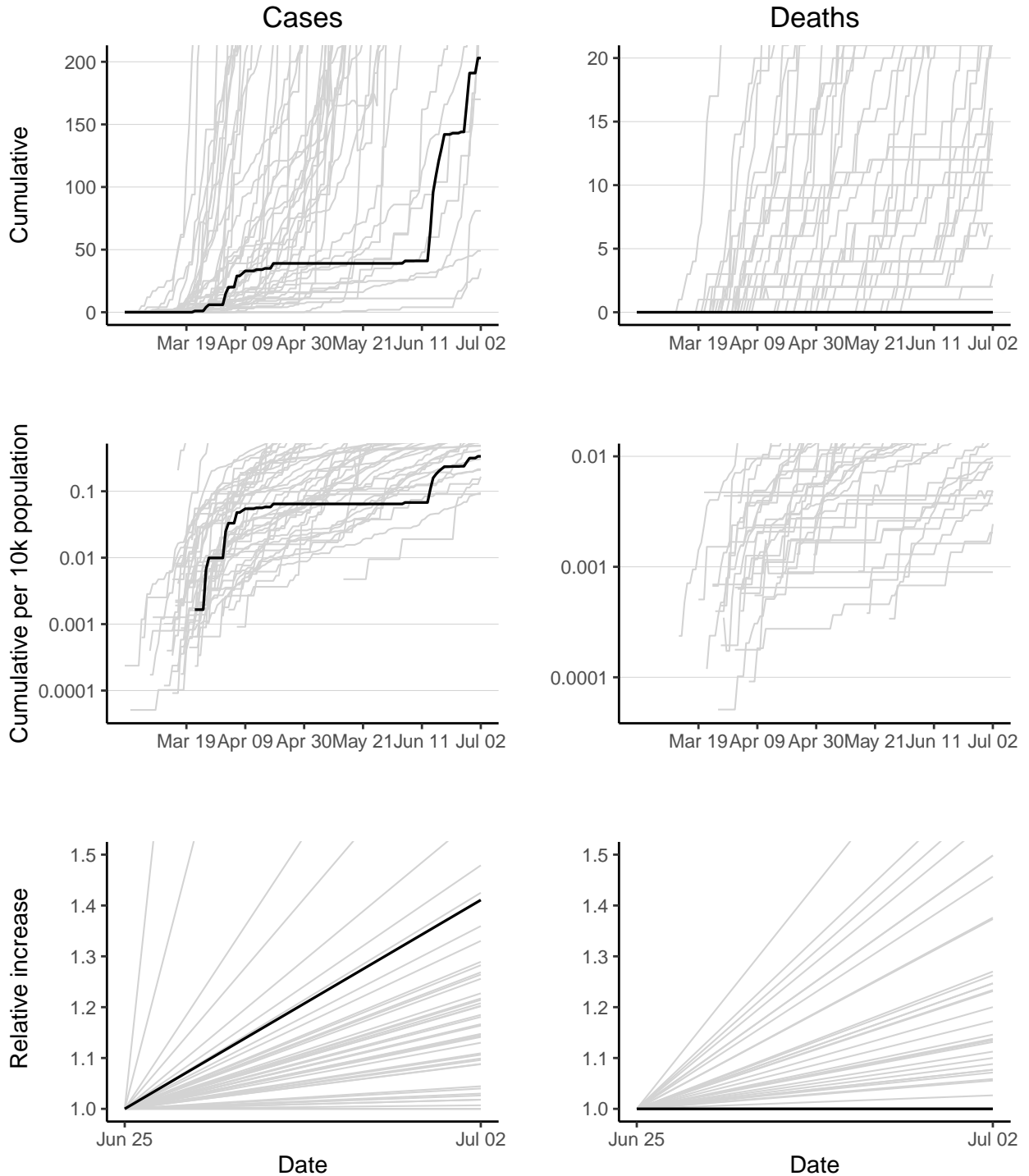
Democratic Republic of the Congo has 7121 reported case(s) (7th in the region) and 174 reported death(s) (5th). Cumulative counts per 10,000 population of reported cases and deaths are 0.85 (31st) and 0.021 (28th) respectively. The doubling times of reported cases and deaths over the last 7 days are 35.5 days (28th) and 23.1 days (14th).

# Equatorial Guinea



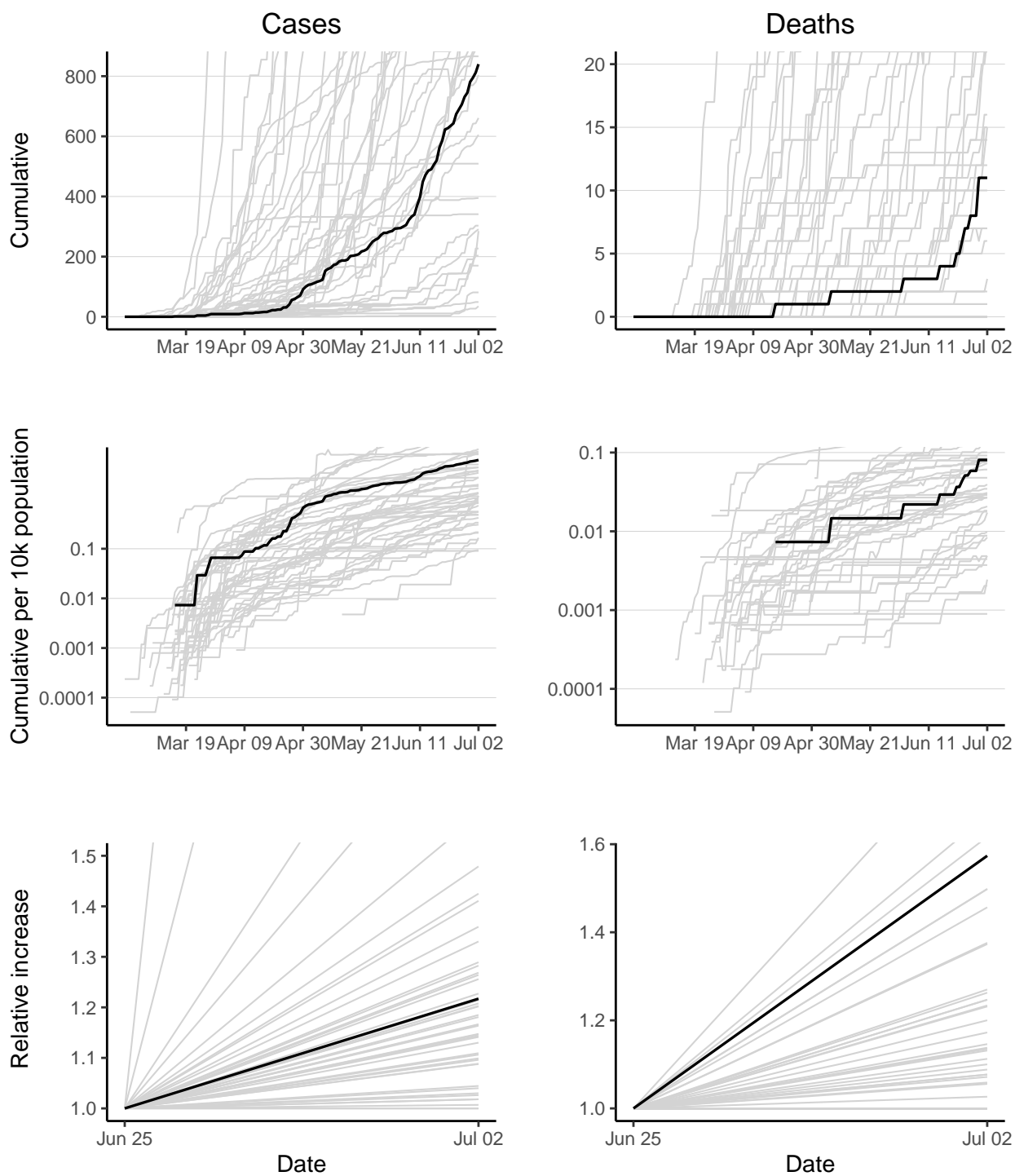
Equatorial Guinea has 1043 reported case(s) (26th in the region) and 12 reported death(s) (32nd). Cumulative counts per 10,000 population of reported cases and deaths are 8 (9th) and 0.092 (10th) respectively. The doubling time of reported cases cannot be calculated as no new cases have been reported in last 7 days. The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

# Eritrea



Eritrea has 203 reported case(s) (43rd in the region) and 0 reported death(s) (43rd). Cumulative counts per 10,000 population of reported cases and deaths are 0.34 (40th) and 0 (43rd) respectively. The doubling time of reported cases over the last 7 days is 14.1 days (8th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

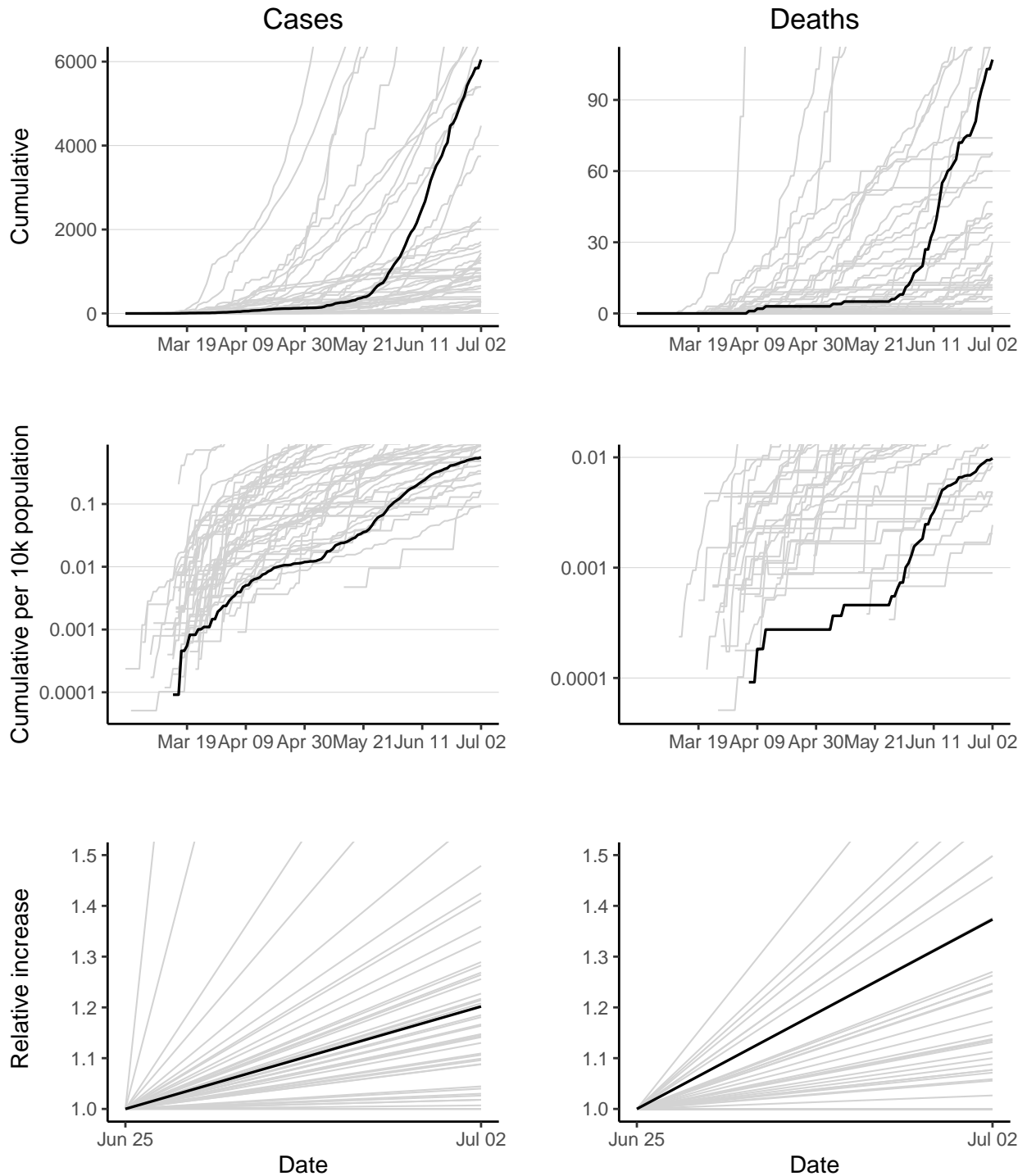
# Eswatini



Eswatini has 840 reported case(s) (32nd in the region) and 11 reported death(s) (33rd). Cumulative counts per 10,000 population of reported cases and deaths are 6.1 (10th) and 0.08 (12th) respectively. The doubling times of reported cases and deaths over the last 7 days are 24.7 days (17th) and 10.7 days (4th).

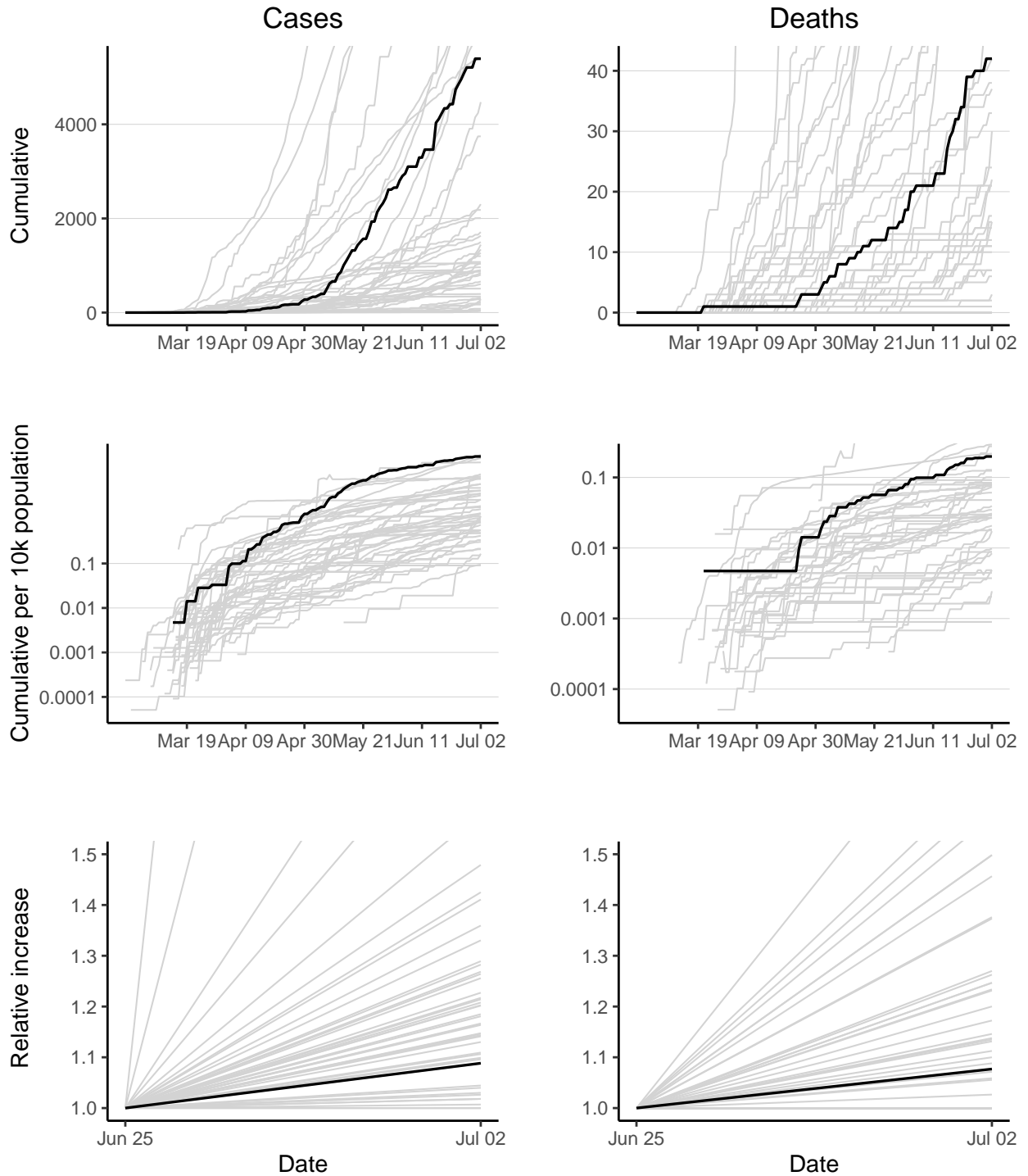


# Ethiopia



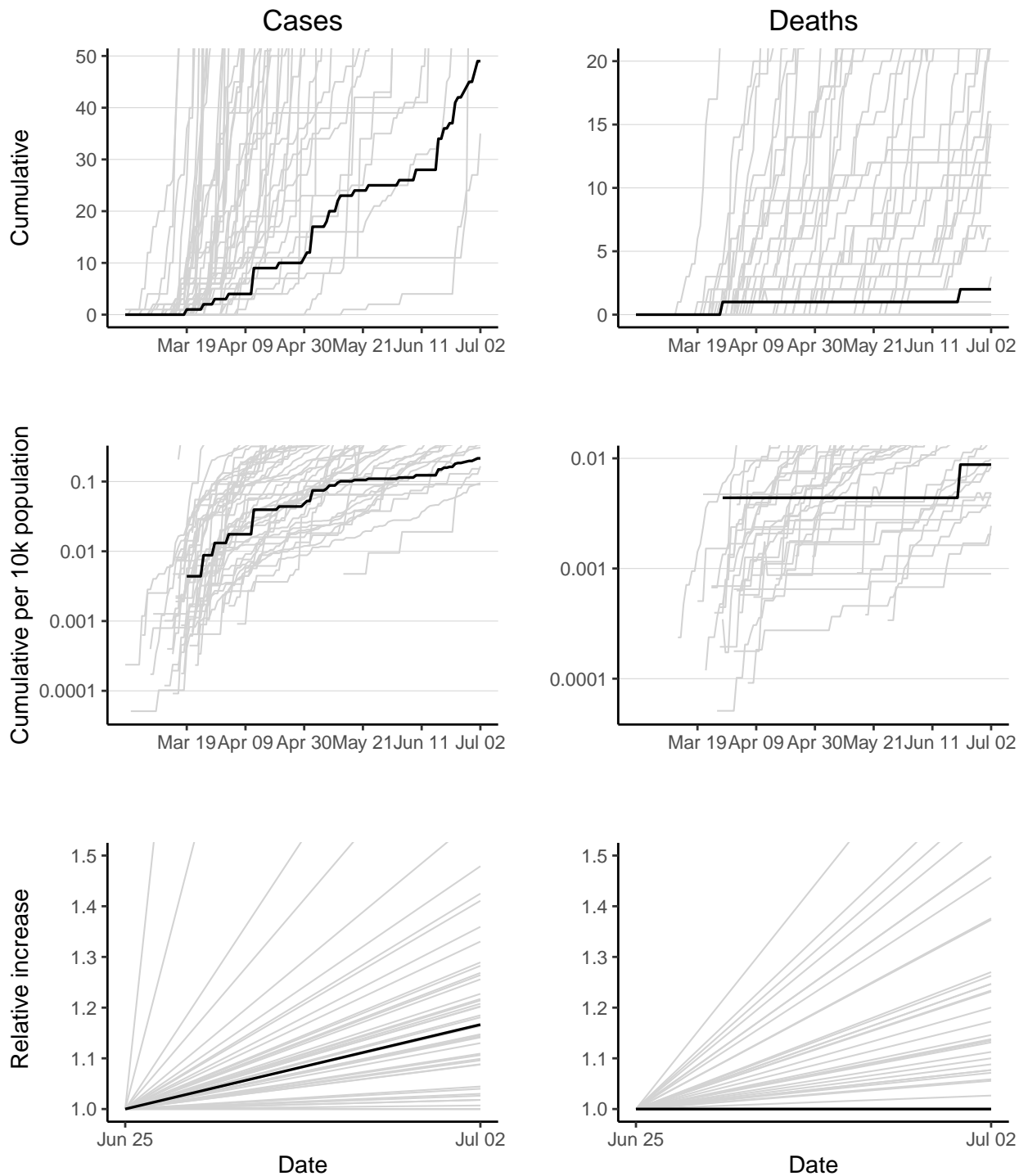
Ethiopia has 6048 reported case(s) (10th in the region) and 107 reported death(s) (11th). Cumulative counts per 10,000 population of reported cases and deaths are 0.55 (36th) and 0.0098 (32nd) respectively. The doubling times of reported cases and deaths over the last 7 days are 26.4 days (21st) and 15.3 days (9th).

# Gabon



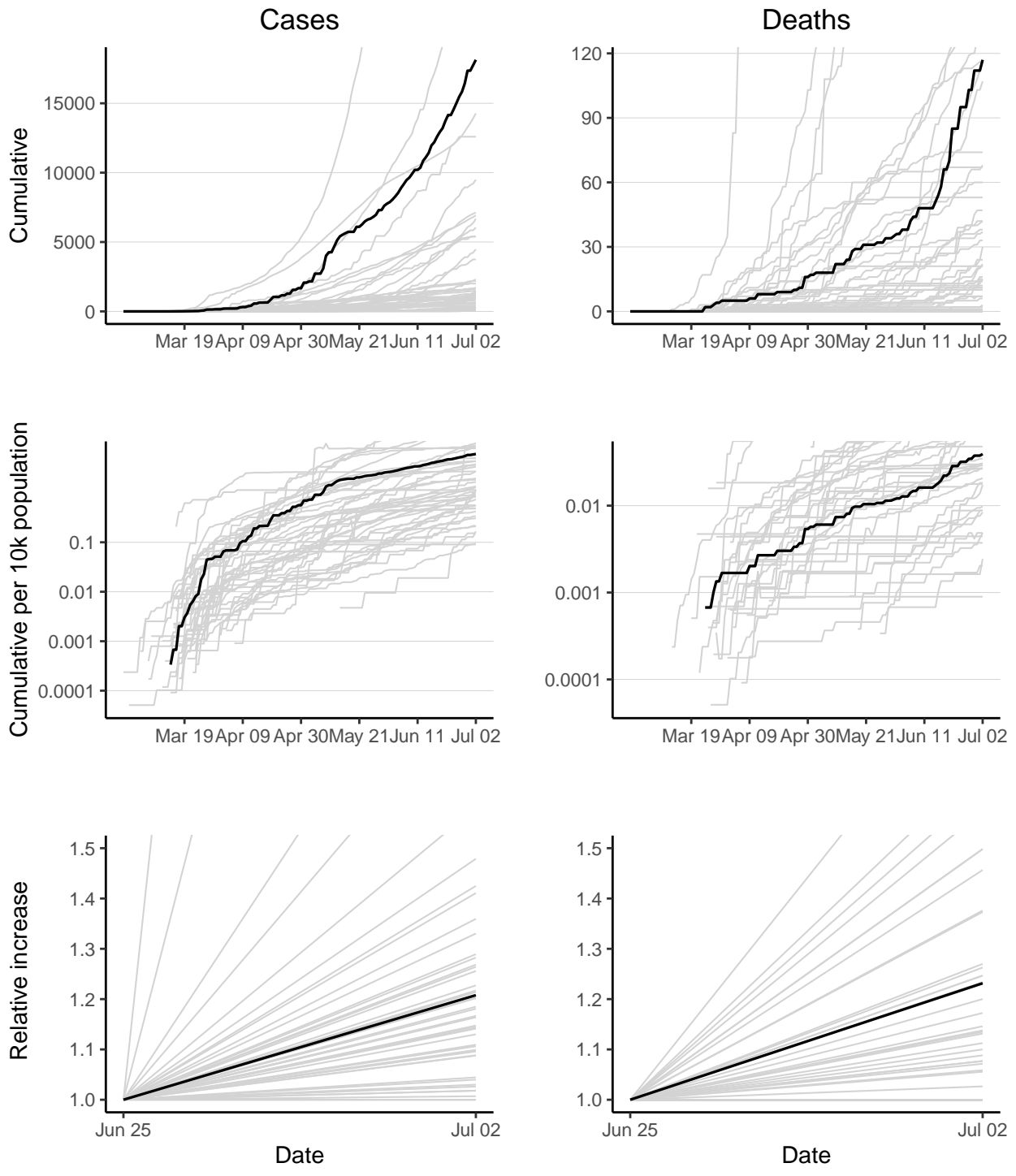
Gabon has 5394 reported case(s) (12th in the region) and 42 reported death(s) (19th). Cumulative counts per 10,000 population of reported cases and deaths are 25 (2nd) and 0.2 (6th) respectively. The doubling times of reported cases and deaths over the last 7 days are 57.3 days (36th) and 65.5 days (25th).

# Gambia



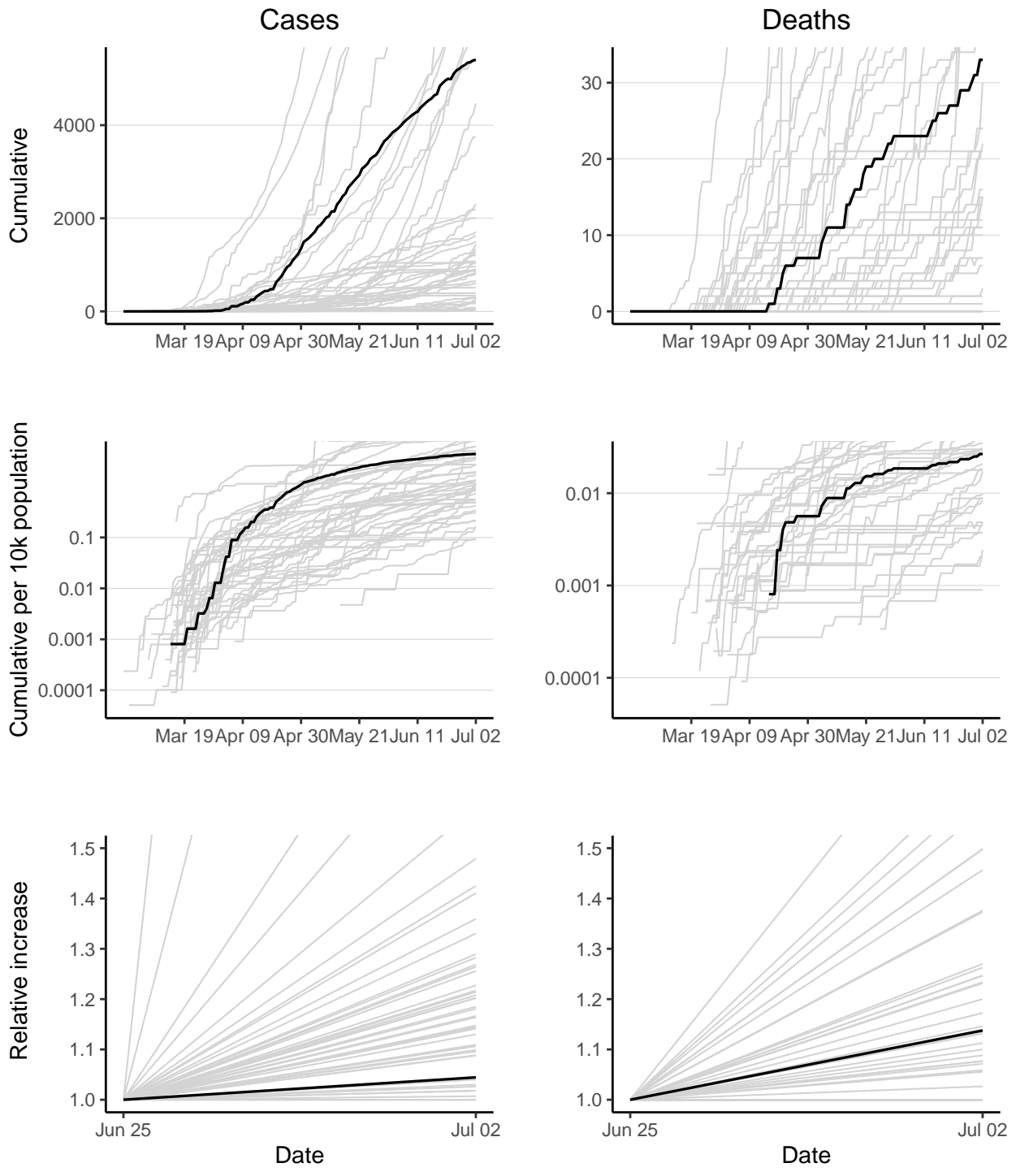
Gambia has 49 reported case(s) (46th in the region) and 2 reported death(s) (40th). Cumulative counts per 10,000 population of reported cases and deaths are 0.21 (42nd) and 0.0088 (34th) respectively. The doubling time of reported cases over the last 7 days is 31.5 days (24th). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

# Ghana



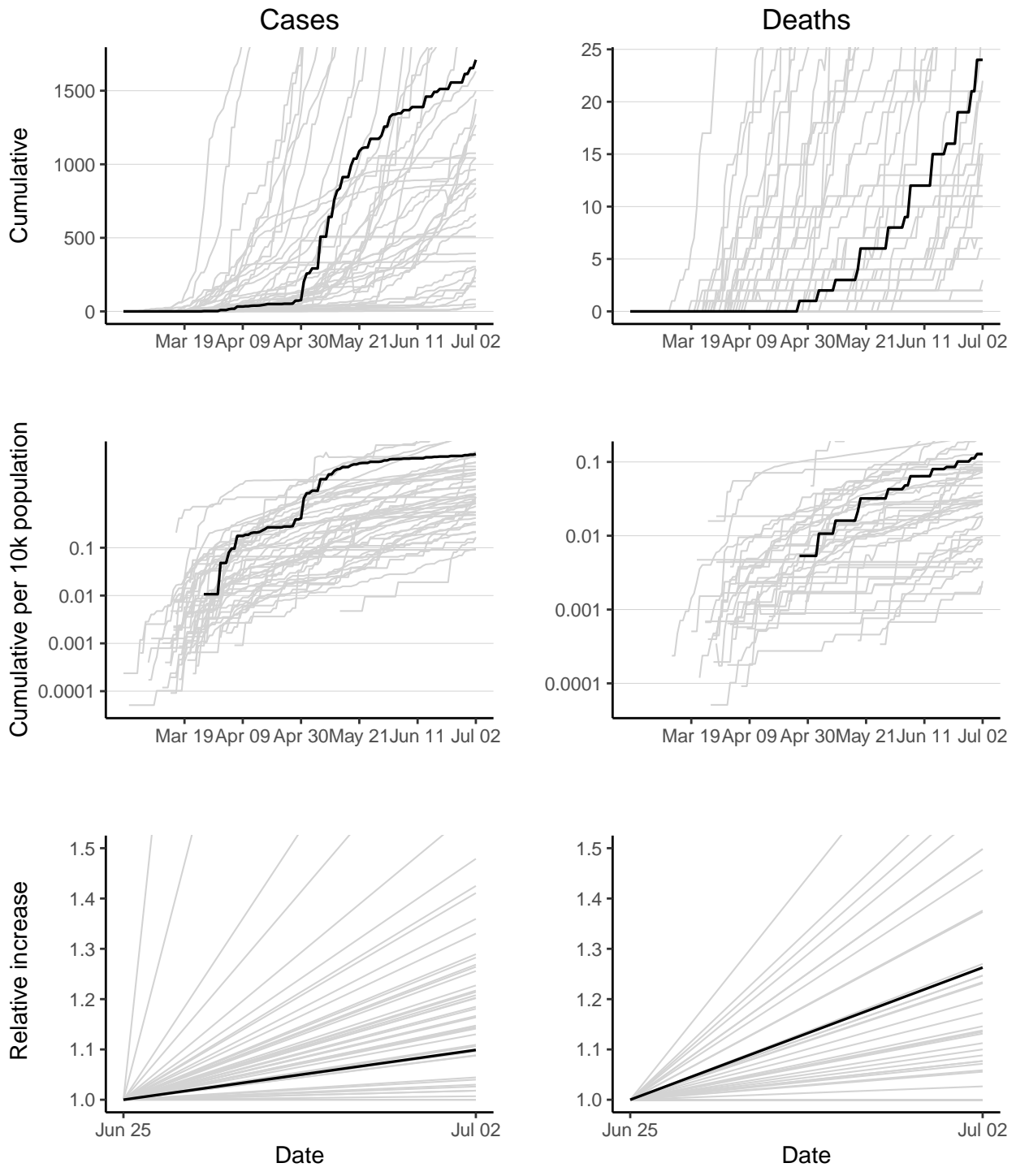
Ghana has 18134 reported case(s) (3rd in the region) and 117 reported death(s) (8th). Cumulative counts per 10,000 population of reported cases and deaths are 6.1 (11th) and 0.039 (20th) respectively. The doubling times of reported cases and deaths over the last 7 days are 25.7 days (19th) and 23.3 days (15th).

# Guinea



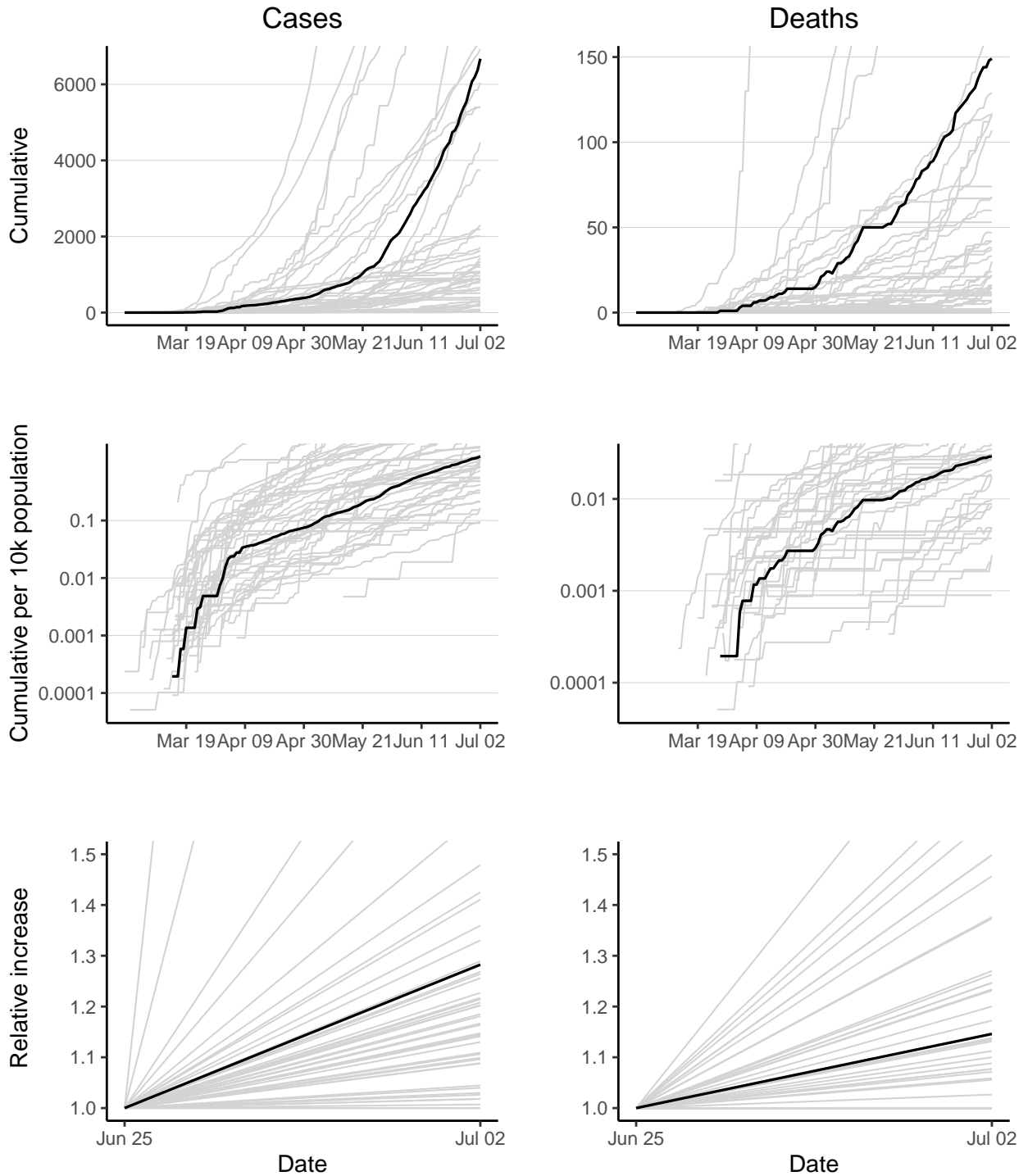
Guinea has 5404 reported case(s) (11th in the region) and 33 reported death(s) (22nd). Cumulative counts per 10,000 population of reported cases and deaths are 4.4 (14th) and 0.027 (27th) respectively. The doubling times of reported cases and deaths over the last 7 days are 111.6 days (38th) and 37.6 days (19th).

# Guinea-Bissau



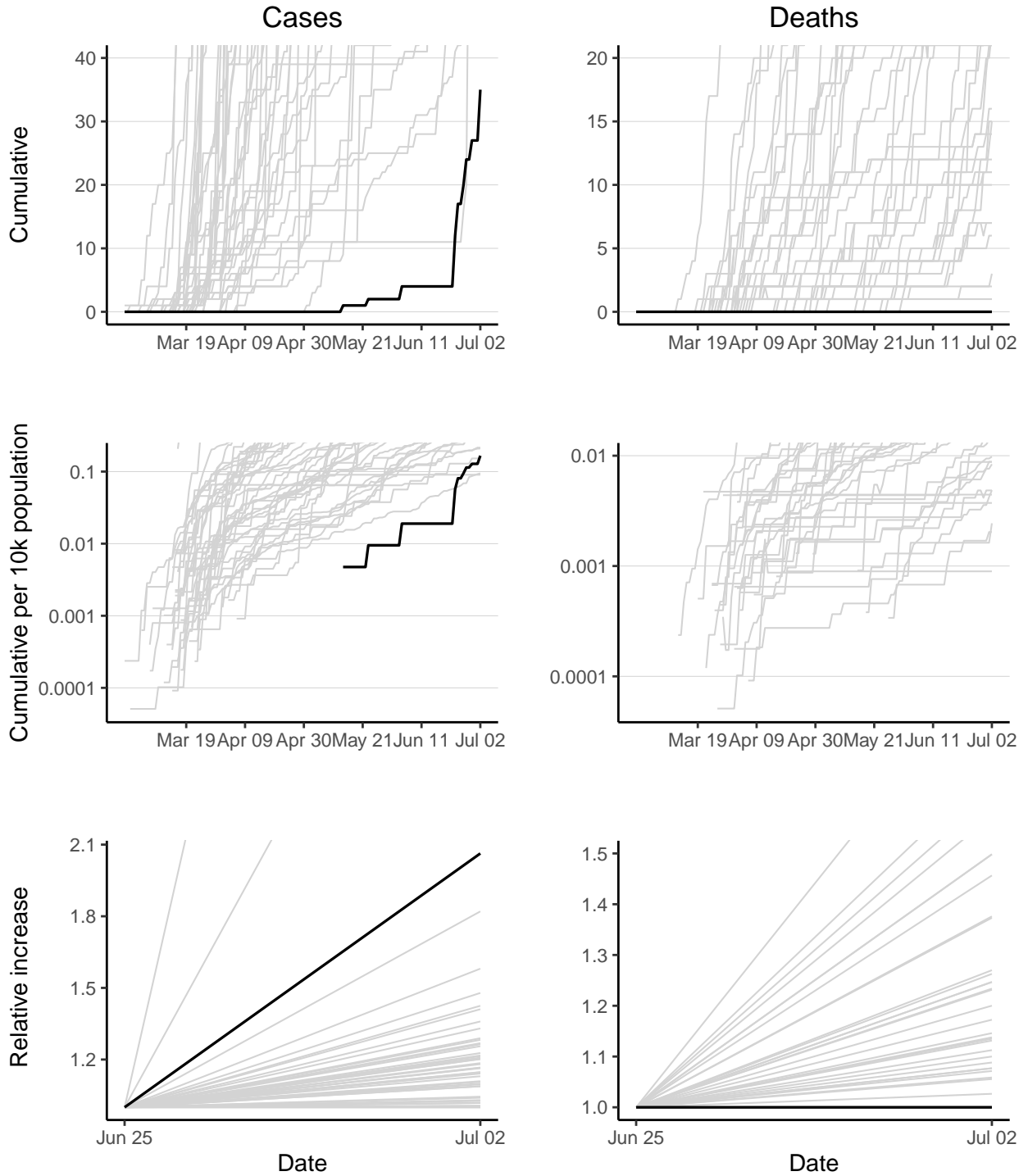
Guinea-Bissau has 1710 reported case(s) (18th in the region) and 24 reported death(s) (24th). Cumulative counts per 10,000 population of reported cases and deaths are 9.1 (6th) and 0.13 (7th) respectively. The doubling times of reported cases and deaths over the last 7 days are 51.4 days (34th) and 20.8 days (11th).

# Kenya



Kenya has 6673 reported case(s) (9th in the region) and 149 reported death(s) (6th). Cumulative counts per 10,000 population of reported cases and deaths are 1.3 (24th) and 0.029 (24th) respectively. The doubling times of reported cases and deaths over the last 7 days are 19.5 days (12th) and 35.6 days (18th).

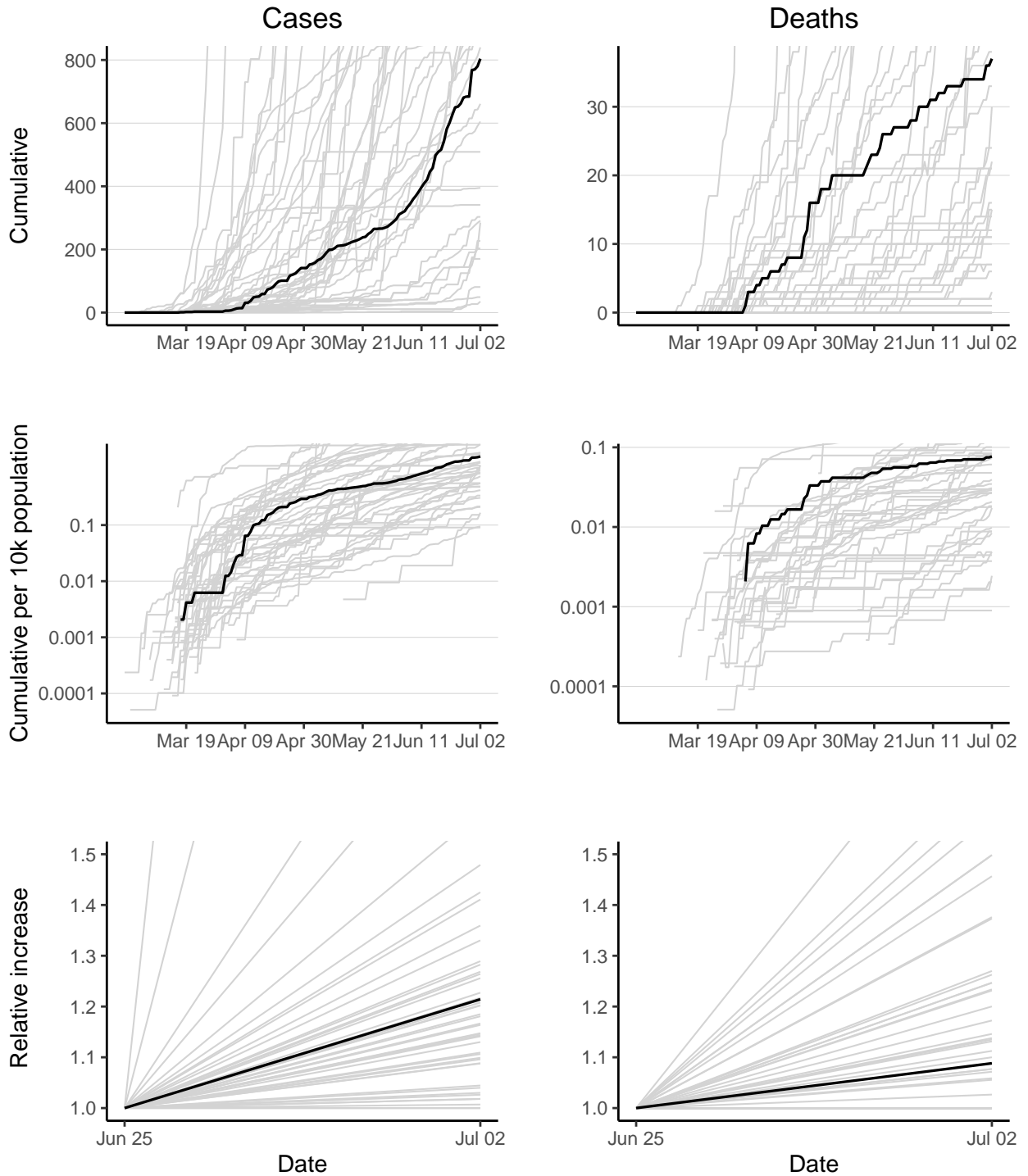
# Lesotho



Lesotho has 35 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 0.17 (44th) and 0 (44th) respectively. The doubling time of reported cases over the last 7 days is 6.7 days (3rd). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

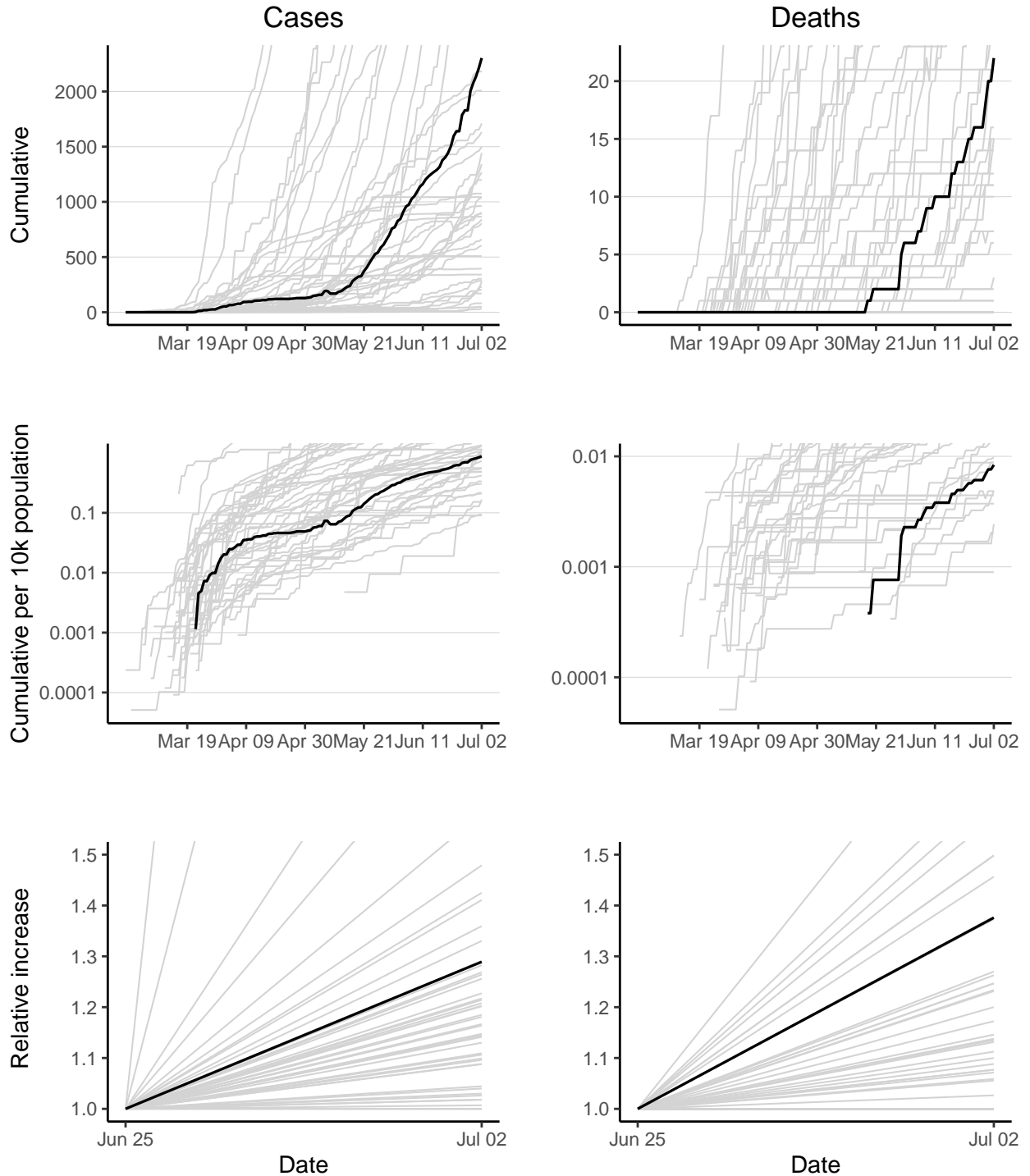


# Liberia



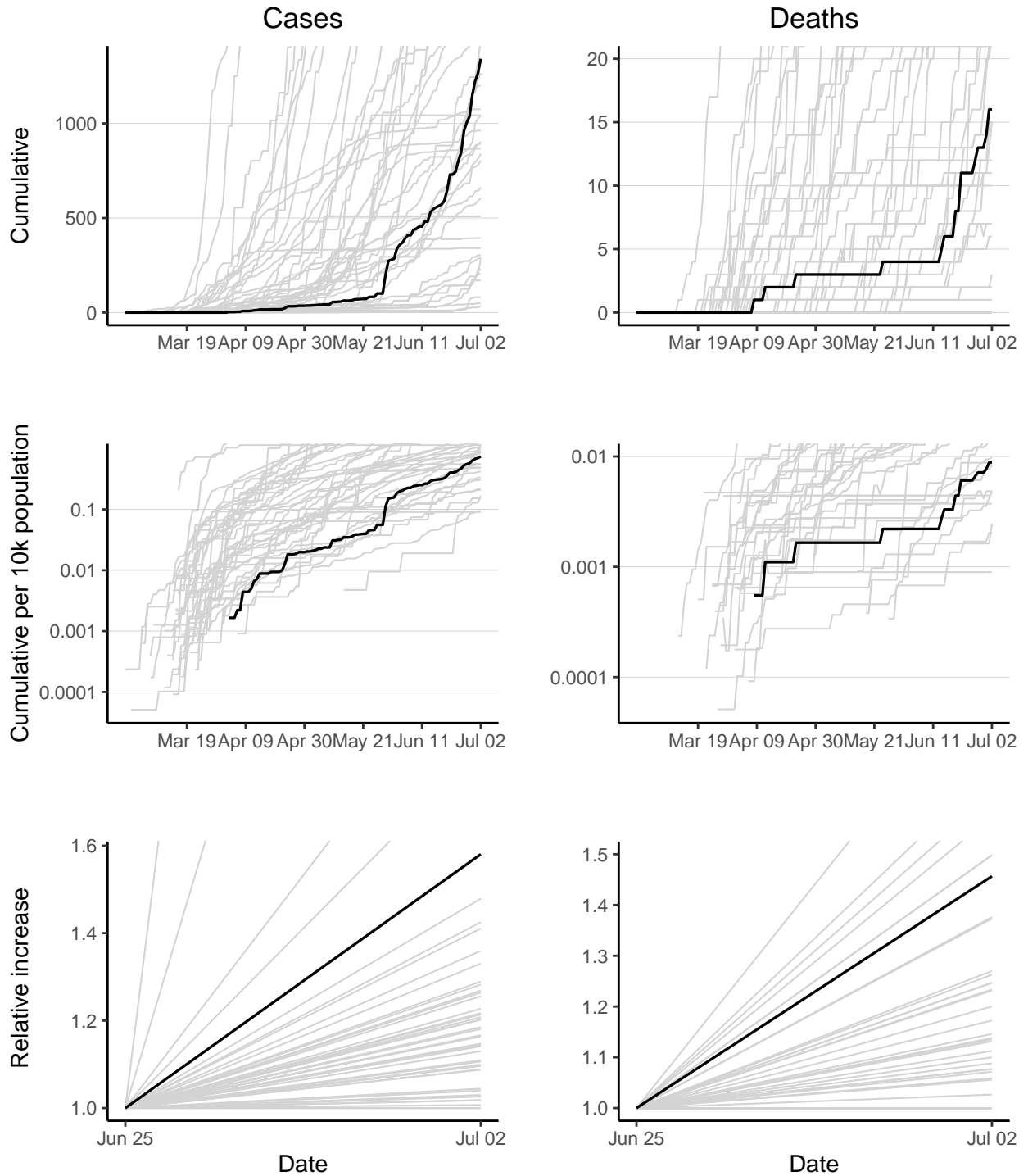
Liberia has 804 reported case(s) (33rd in the region) and 37 reported death(s) (21st). Cumulative counts per 10,000 population of reported cases and deaths are 1.7 (22nd) and 0.077 (16th) respectively. The doubling times of reported cases and deaths over the last 7 days are 25 days (18th) and 57.4 days (24th).

# Madagascar



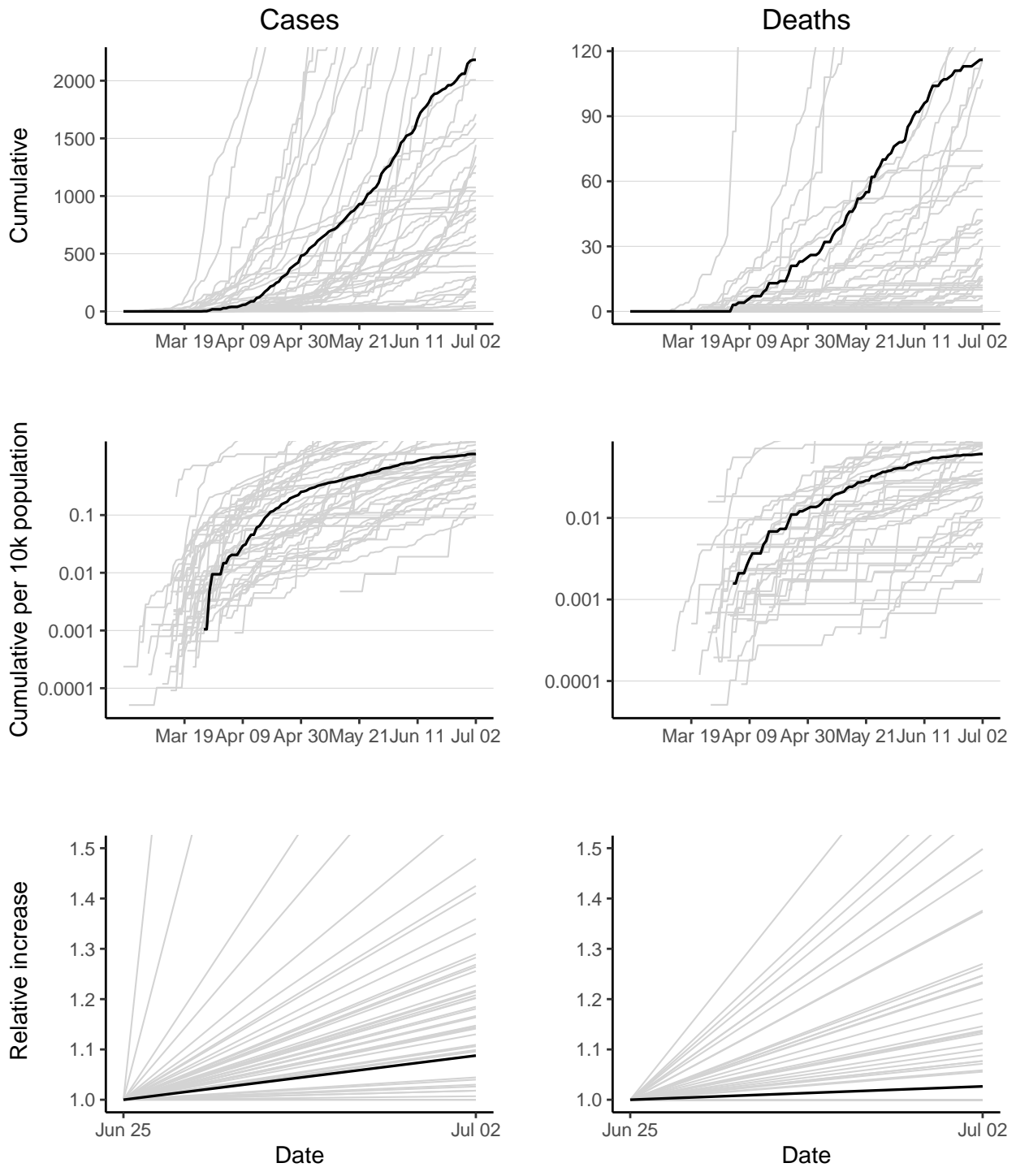
Madagascar has 2303 reported case(s) (15th in the region) and 22 reported death(s) (25th). Cumulative counts per 10,000 population of reported cases and deaths are 0.88 (30th) and 0.0084 (35th) respectively. The doubling times of reported cases and deaths over the last 7 days are 19.1 days (11th) and 15.2 days (8th).

# Malawi



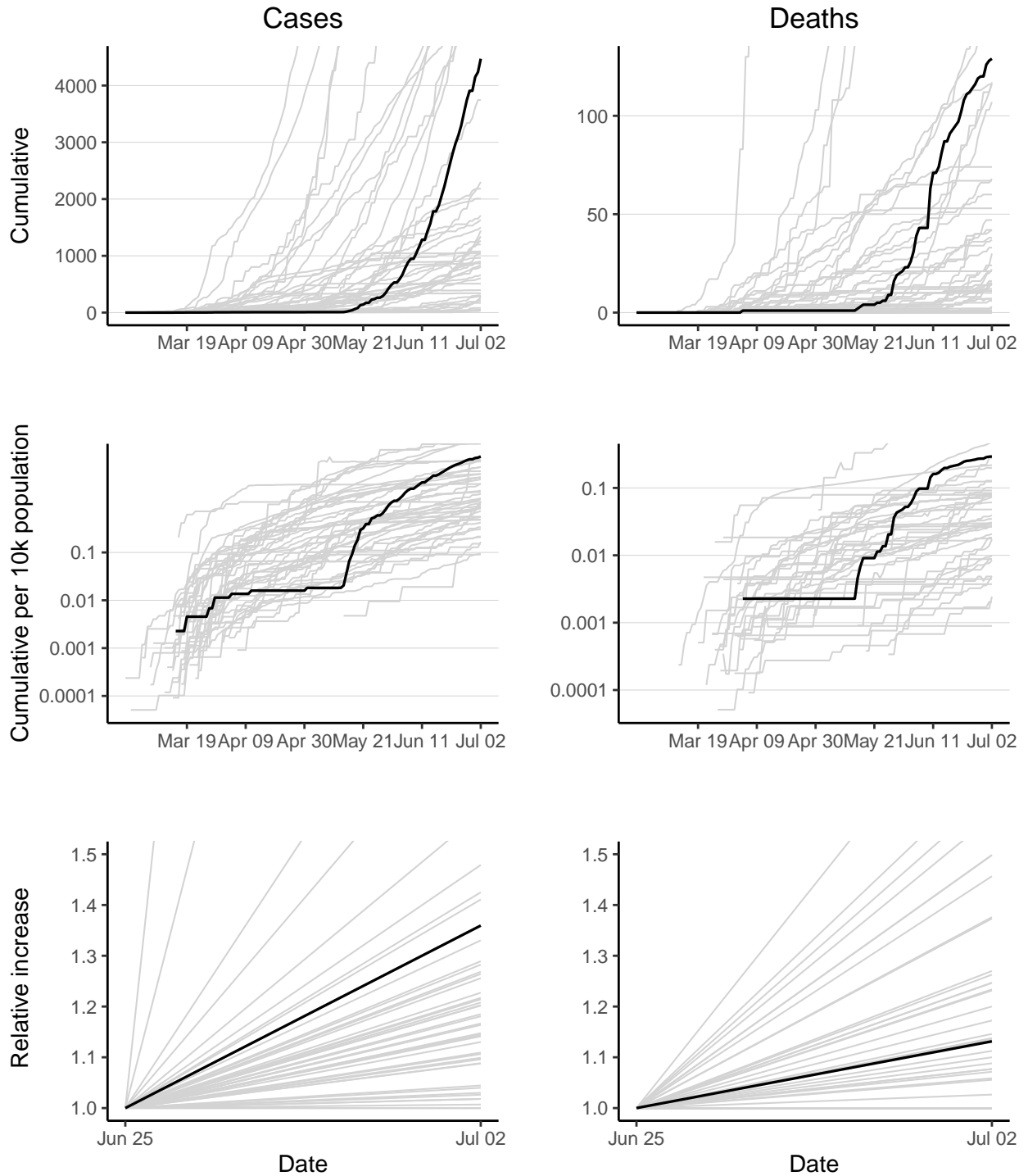
Malawi has 1342 reported case(s) (22nd in the region) and 16 reported death(s) (28th). Cumulative counts per 10,000 population of reported cases and deaths are 0.74 (34th) and 0.0088 (33rd) respectively. The doubling times of reported cases and deaths over the last 7 days are 10.6 days (5th) and 12.9 days (7th).

# Mali



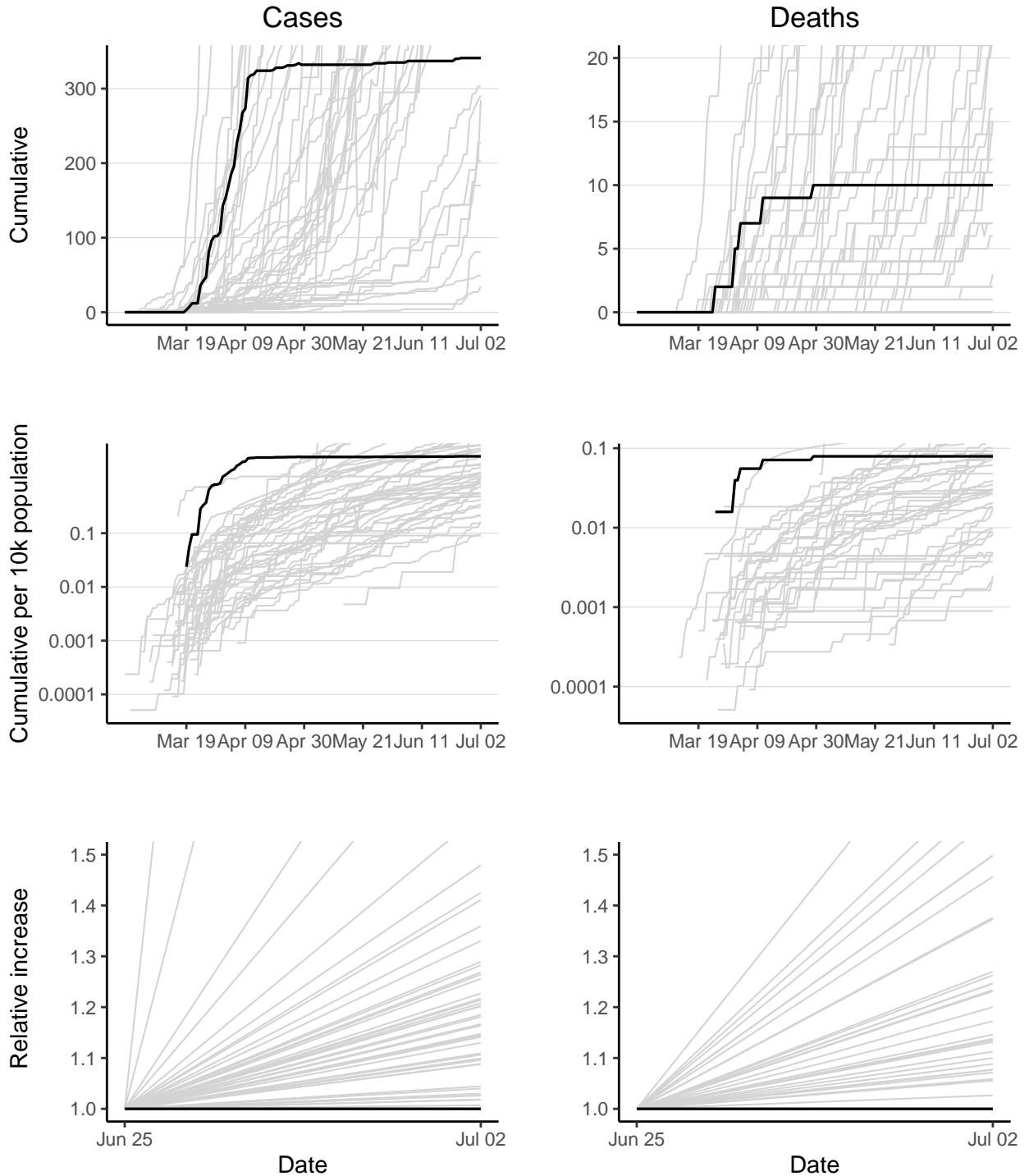
Mali has 2181 reported case(s) (16th in the region) and 116 reported death(s) (9th). Cumulative counts per 10,000 population of reported cases and deaths are 1.1 (26th) and 0.061 (18th) respectively. The doubling times of reported cases and deaths over the last 7 days are 57.7 days (37th) and 185.2 days (30th).

# Mauritania



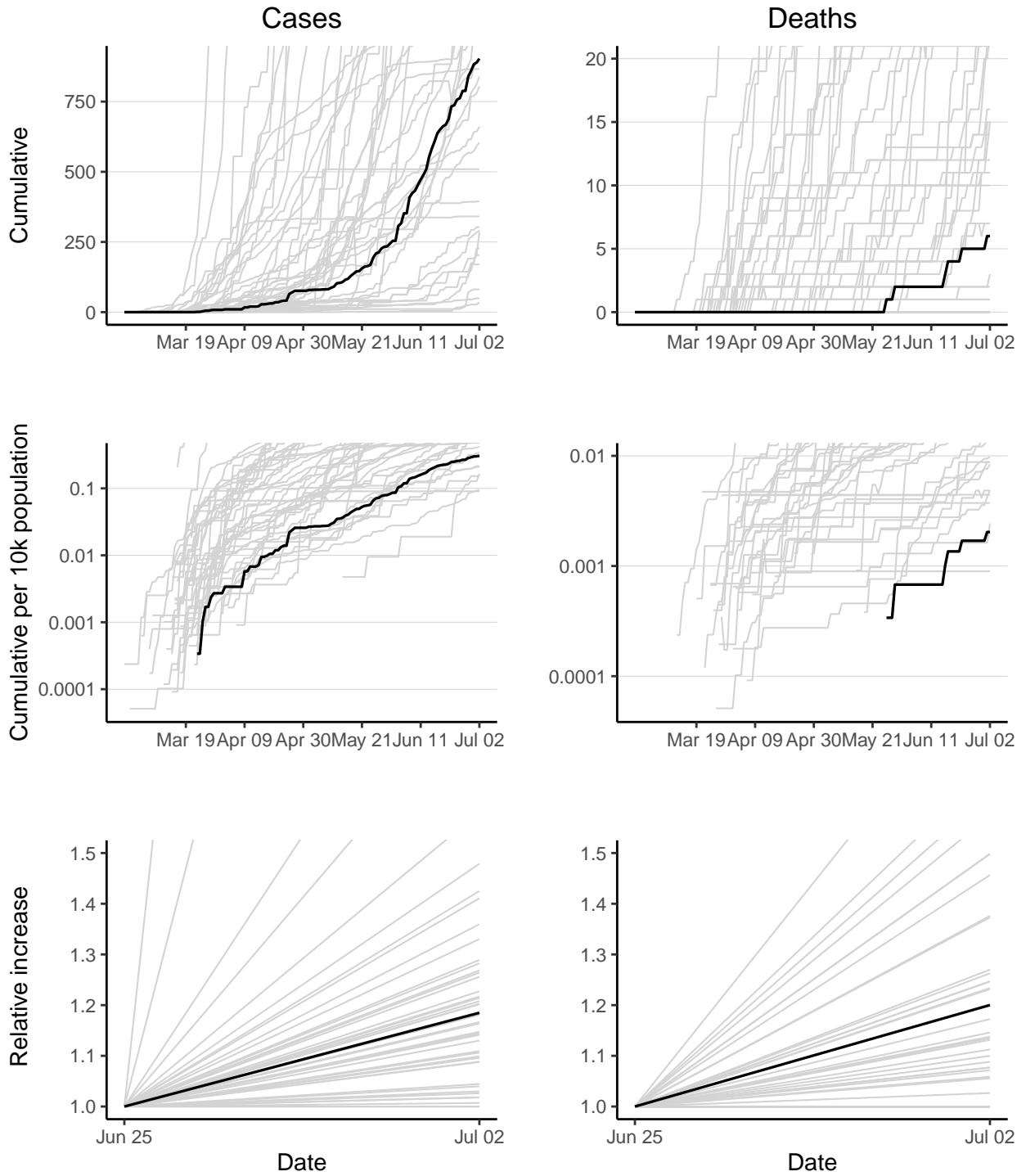
Mauritania has 4472 reported case(s) (13th in the region) and 129 reported death(s) (7th). Cumulative counts per 10,000 population of reported cases and deaths are 10 (5th) and 0.29 (3rd) respectively. The doubling times of reported cases and deaths over the last 7 days are 15.8 days (9th) and 39.3 days (21st).

# Mauritius



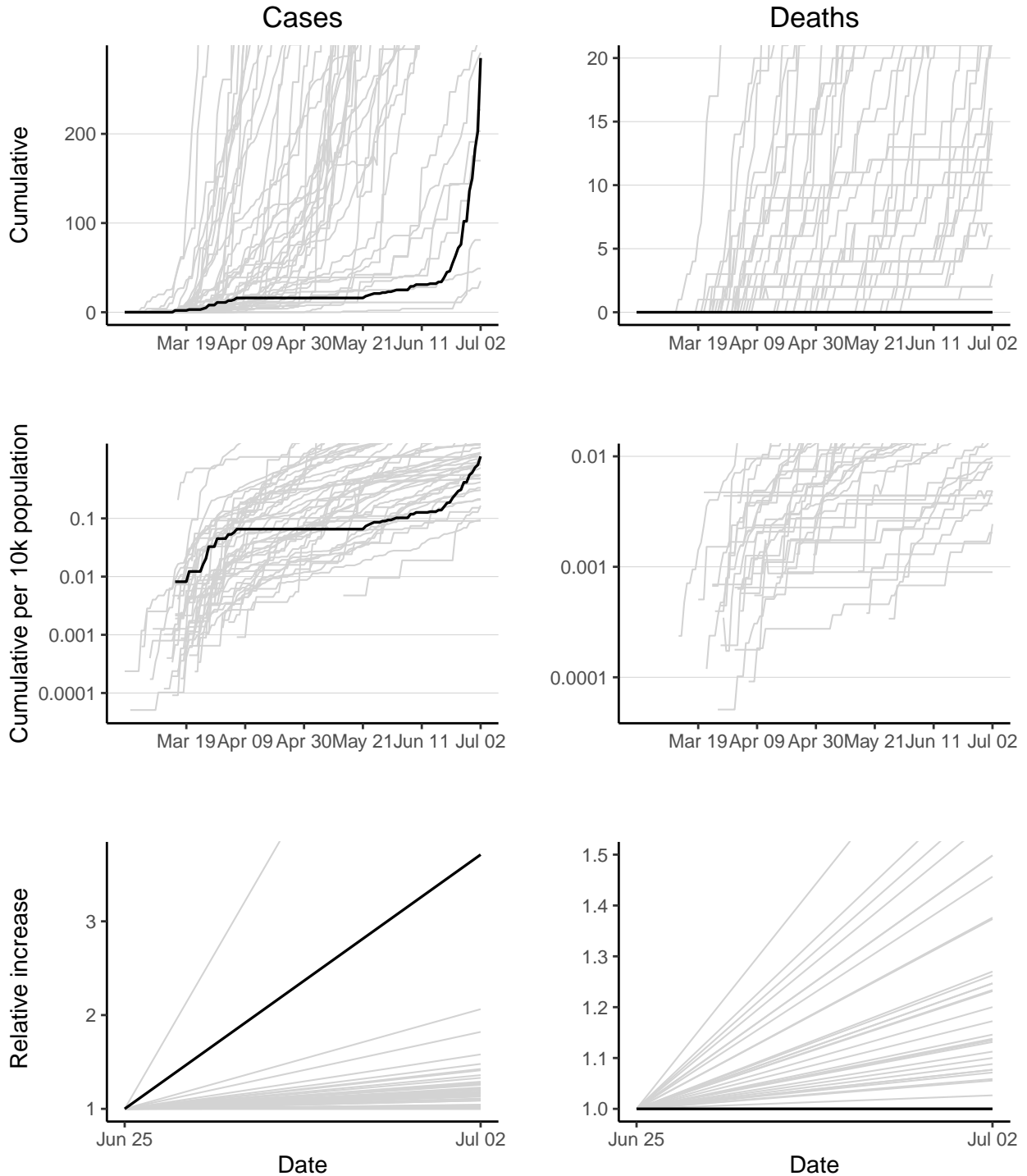
Mauritius has 341 reported case(s) (38th in the region) and 10 reported death(s) (35th). Cumulative counts per 10,000 population of reported cases and deaths are 2.7 (19th) and 0.079 (14th) respectively. The doubling time of reported cases cannot be calculated as no new cases have been reported in last 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 903 reported case(s) (29th in the region) and 6 reported death(s) (38th). Cumulative counts per 10,000 population of reported cases and deaths are 0.31 (41st) and 0.002 (41st) respectively. The doubling times of reported cases and deaths over the last 7 days are 28.6 days (22nd) and 26.6 days (16th).

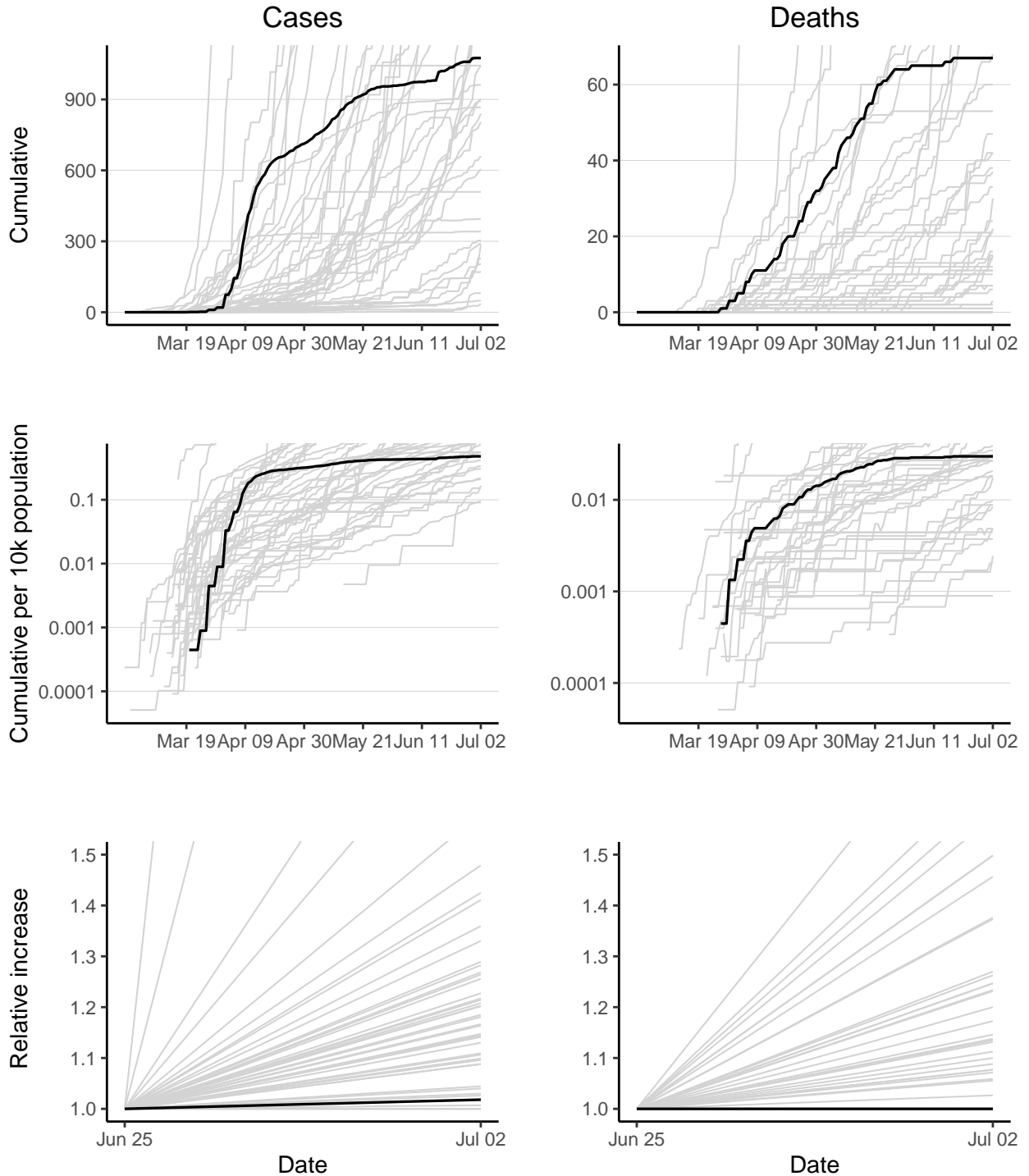
# Namibia



Namibia has 285 reported case(s) (41st in the region) and 0 reported death(s) (45th). Cumulative counts per 10,000 population of reported cases and deaths are 1.2 (25th) and 0 (45th) respectively. The doubling time of reported cases over the last 7 days is 3.7 days (2nd). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

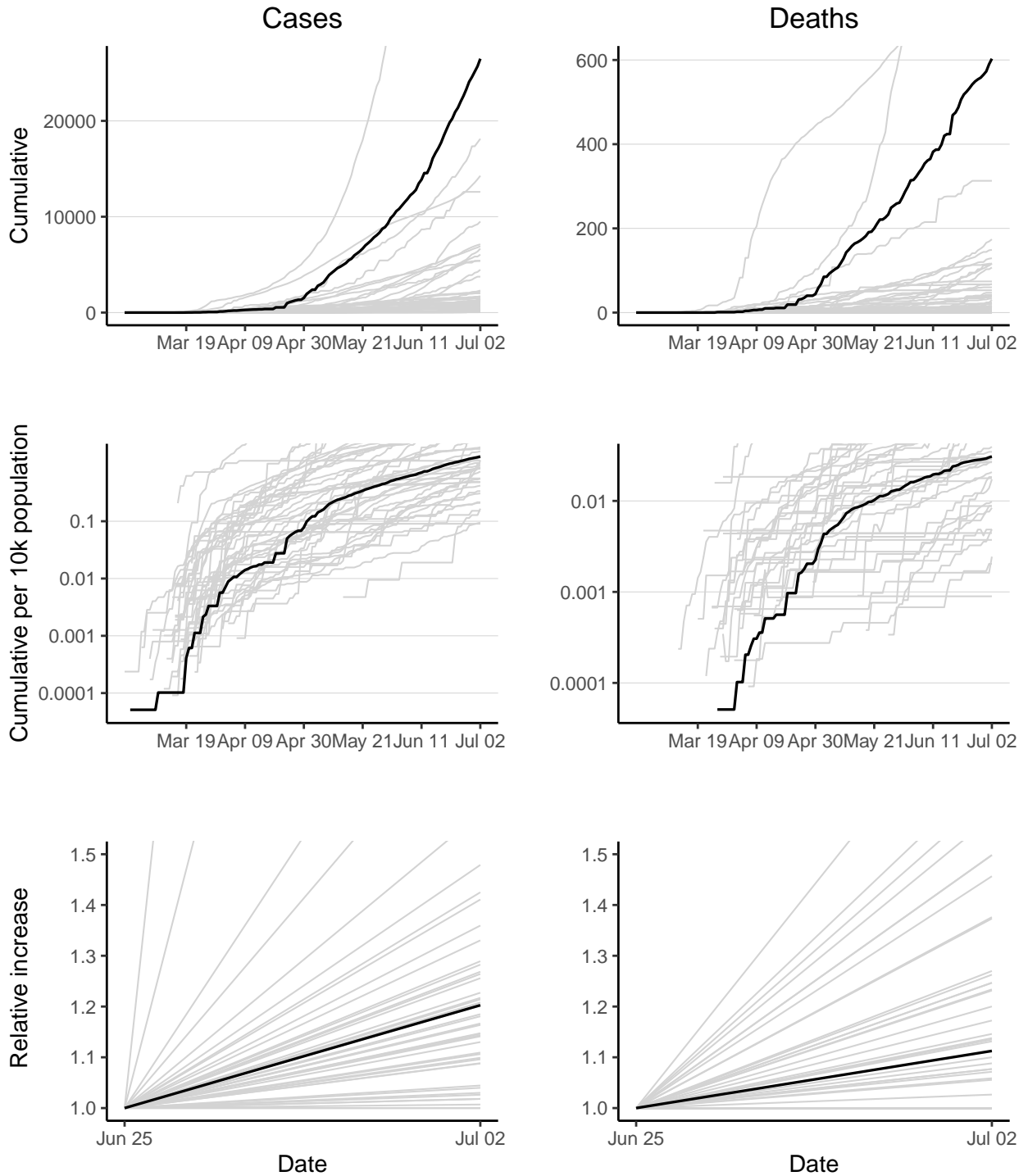


# Niger



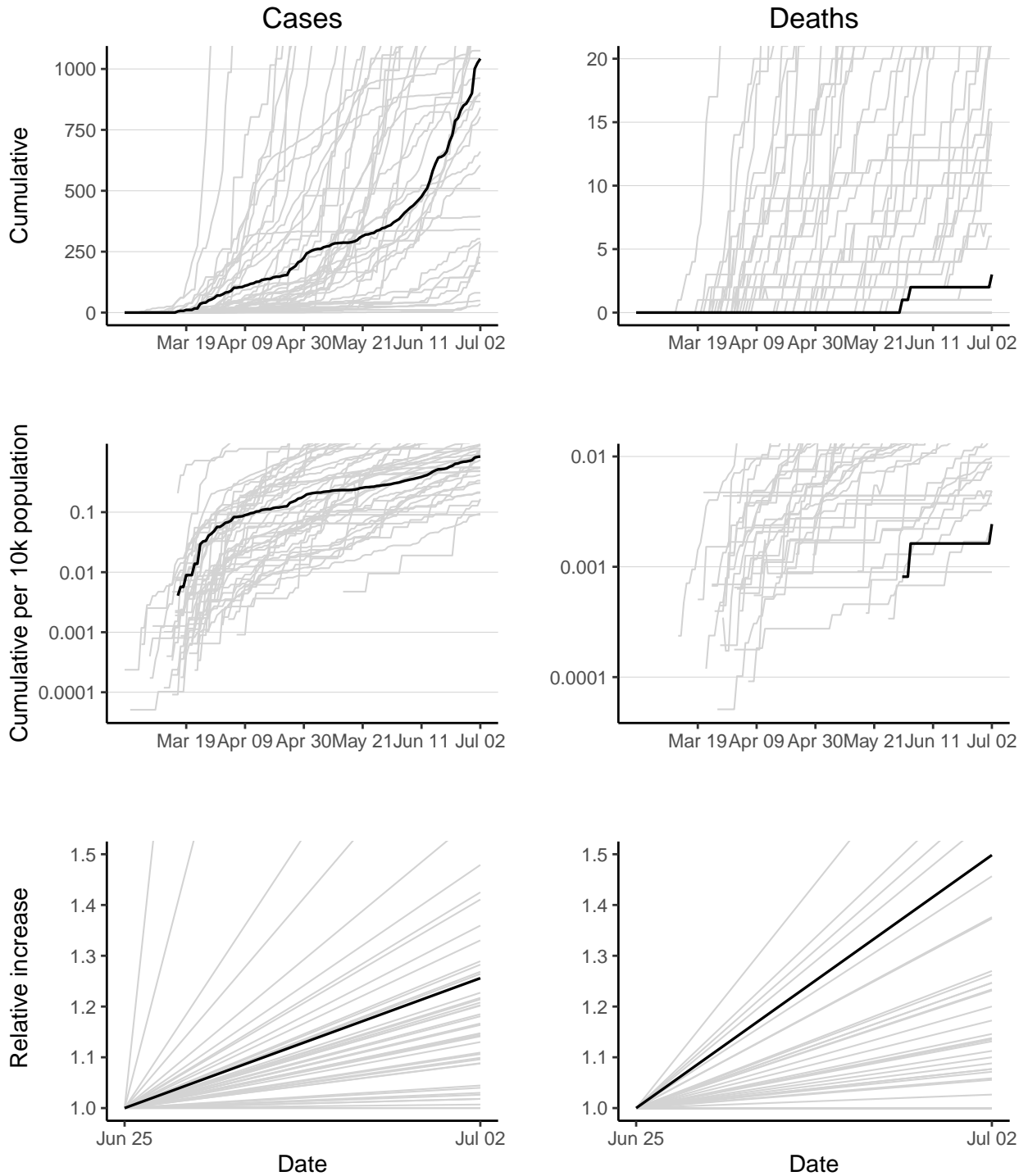
Niger has 1075 reported case(s) (25th in the region) and 67 reported death(s) (14th). Cumulative counts per 10,000 population of reported cases and deaths are 0.48 (38th) and 0.03 (23rd) respectively. The doubling time of reported cases over the last 7 days is 272.1 days (43rd). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

# Nigeria



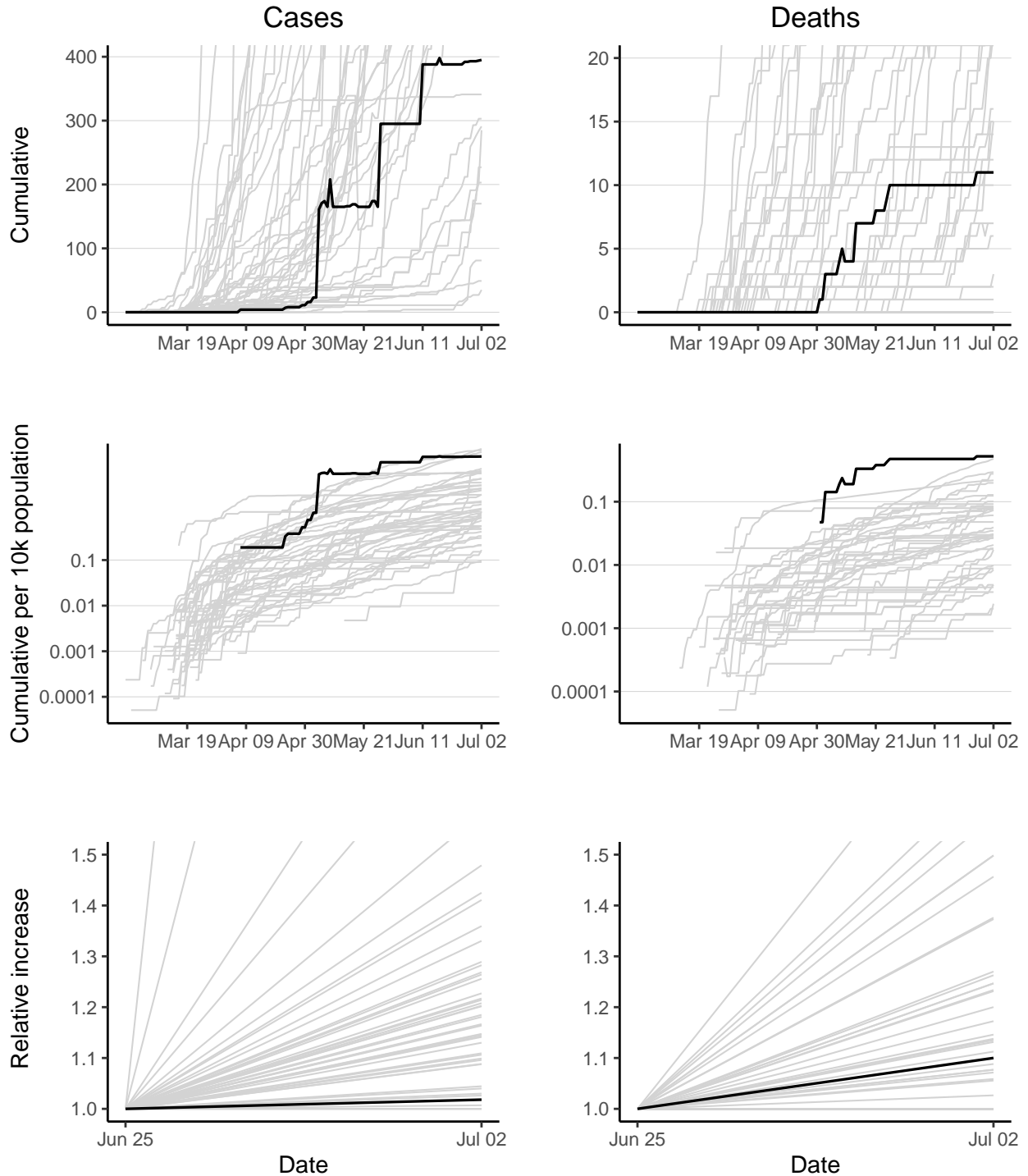
Nigeria has 26484 reported case(s) (2nd in the region) and 603 reported death(s) (3rd). Cumulative counts per 10,000 population of reported cases and deaths are 1.4 (23rd) and 0.031 (22nd) respectively. The doubling times of reported cases and deaths over the last 7 days are 26.3 days (20th) and 45.5 days (22nd).

# Rwanda



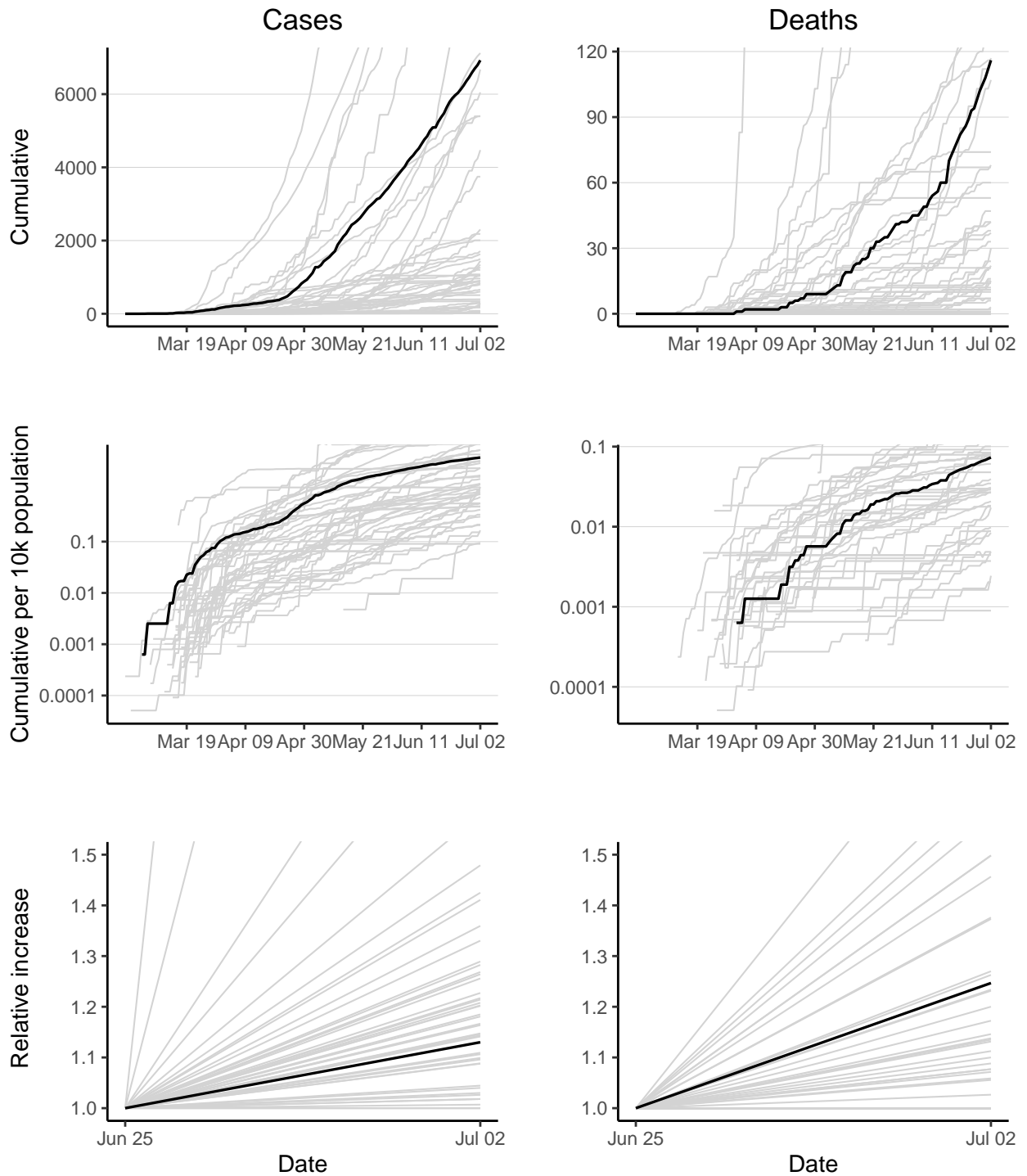
Rwanda has 1042 reported case(s) (27th in the region) and 3 reported death(s) (39th). Cumulative counts per 10,000 population of reported cases and deaths are 0.85 (32nd) and 0.0024 (40th) respectively. The doubling times of reported cases and deaths over the last 7 days are 21.3 days (15th) and 12 days (6th).

# Sao Tome and Principe



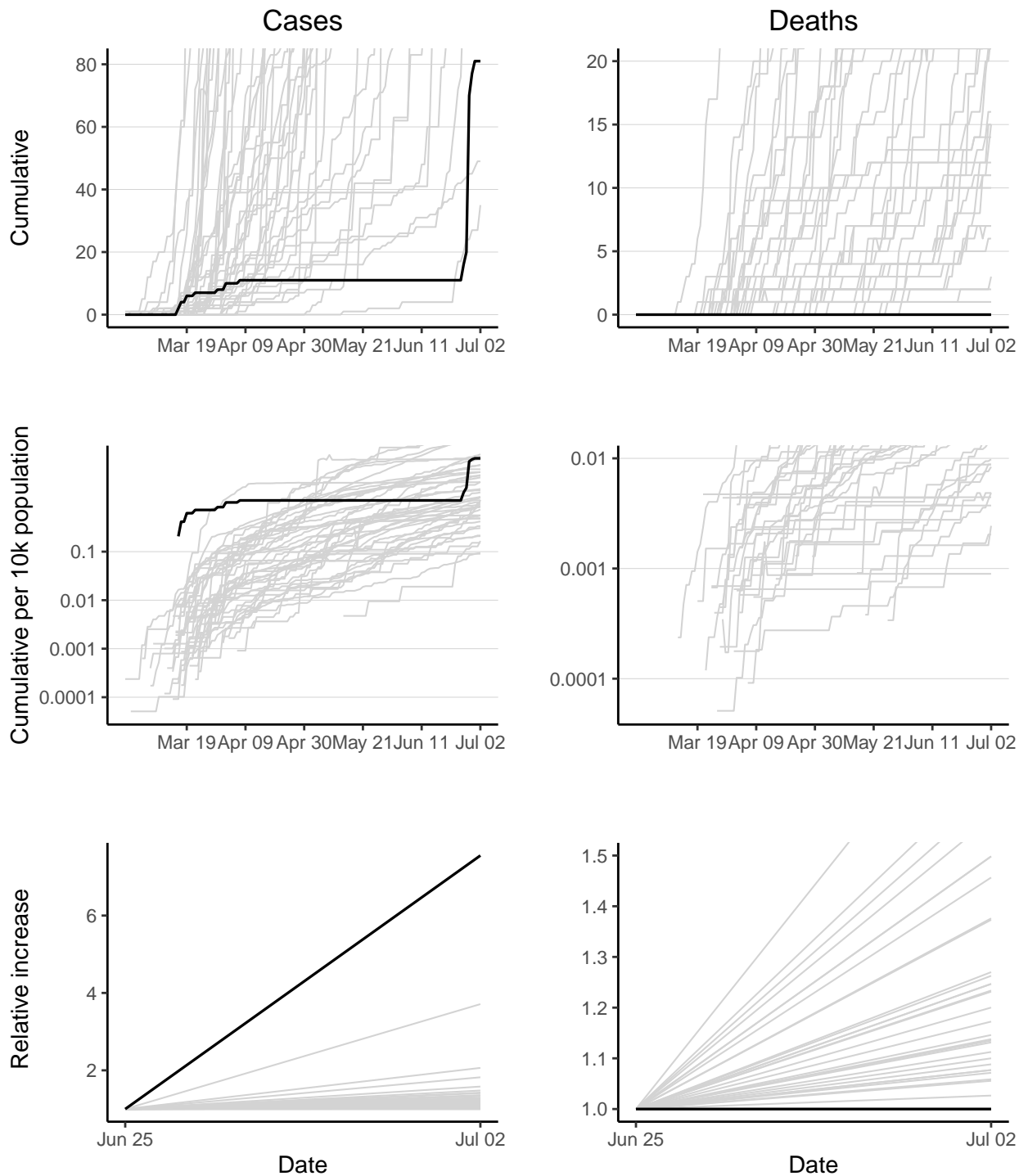
Sao Tome and Principe has 395 reported case(s) (37th in the region) and 11 reported death(s) (34th). Cumulative counts per 10,000 population of reported cases and deaths are 19 (4th) and 0.52 (1st) respectively. The doubling times of reported cases and deaths over the last 7 days are 271.4 days (42nd) and 50.9 days (23rd).

# Senegal



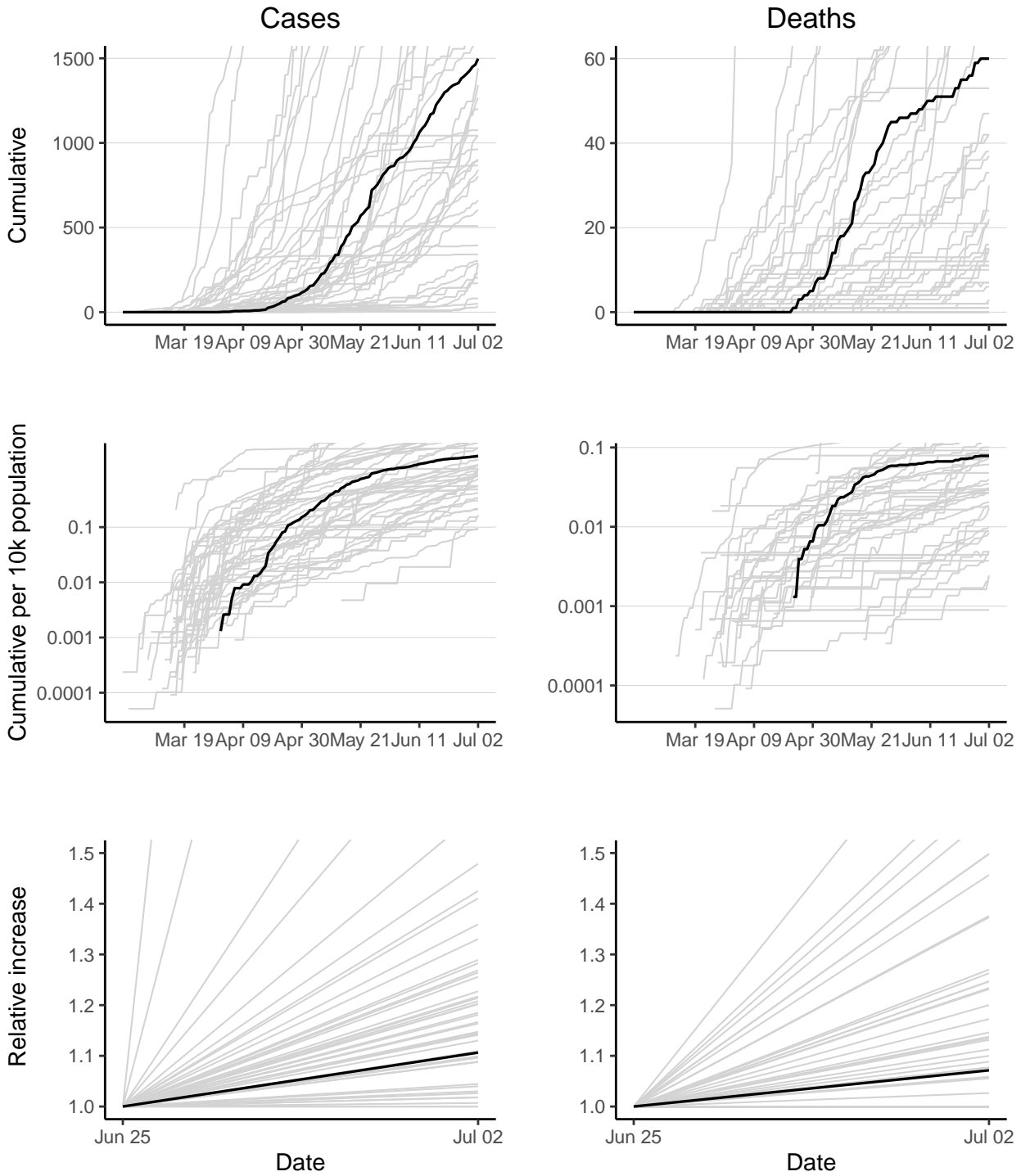
Senegal has 6925 reported case(s) (8th in the region) and 116 reported death(s) (10th). Cumulative counts per 10,000 population of reported cases and deaths are 4.4 (13th) and 0.073 (17th) respectively. The doubling times of reported cases and deaths over the last 7 days are 39.7 days (31st) and 22 days (12th).

# Seychelles



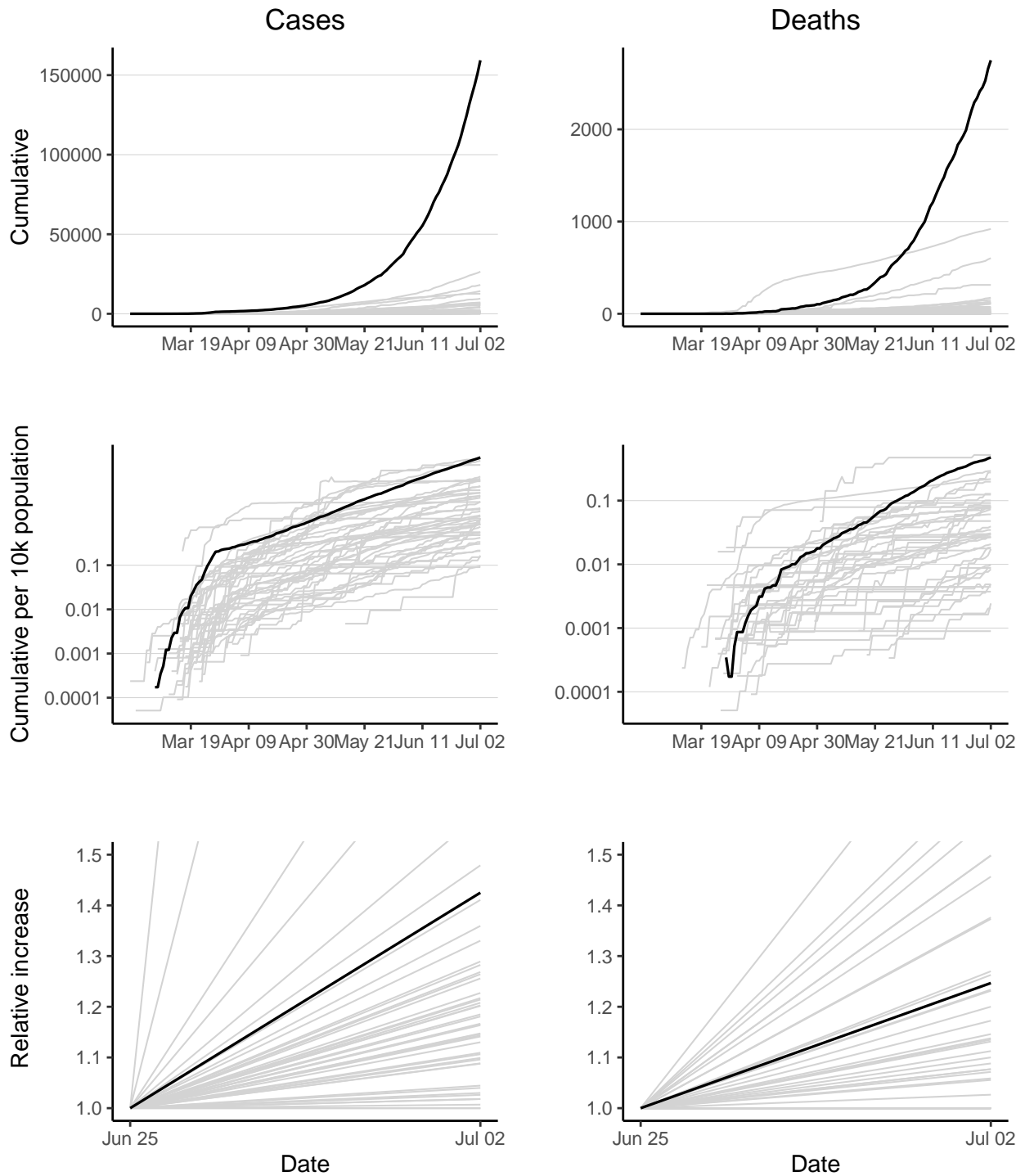
Seychelles has 81 reported case(s) (45th in the region) and 0 reported death(s) (46th). Cumulative counts per 10,000 population of reported cases and deaths are 8.4 (7th) and 0 (46th) respectively. The doubling time of reported cases over the last 7 days is 2.4 days (1st). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

# Sierra Leone



Sierra Leone has 1498 reported case(s) (20th in the region) and 60 reported death(s) (15th). Cumulative counts per 10,000 population of reported cases and deaths are 2 (20th) and 0.078 (15th) respectively. The doubling times of reported cases and deaths over the last 7 days are 48 days (33rd) and 70.3 days (27th).

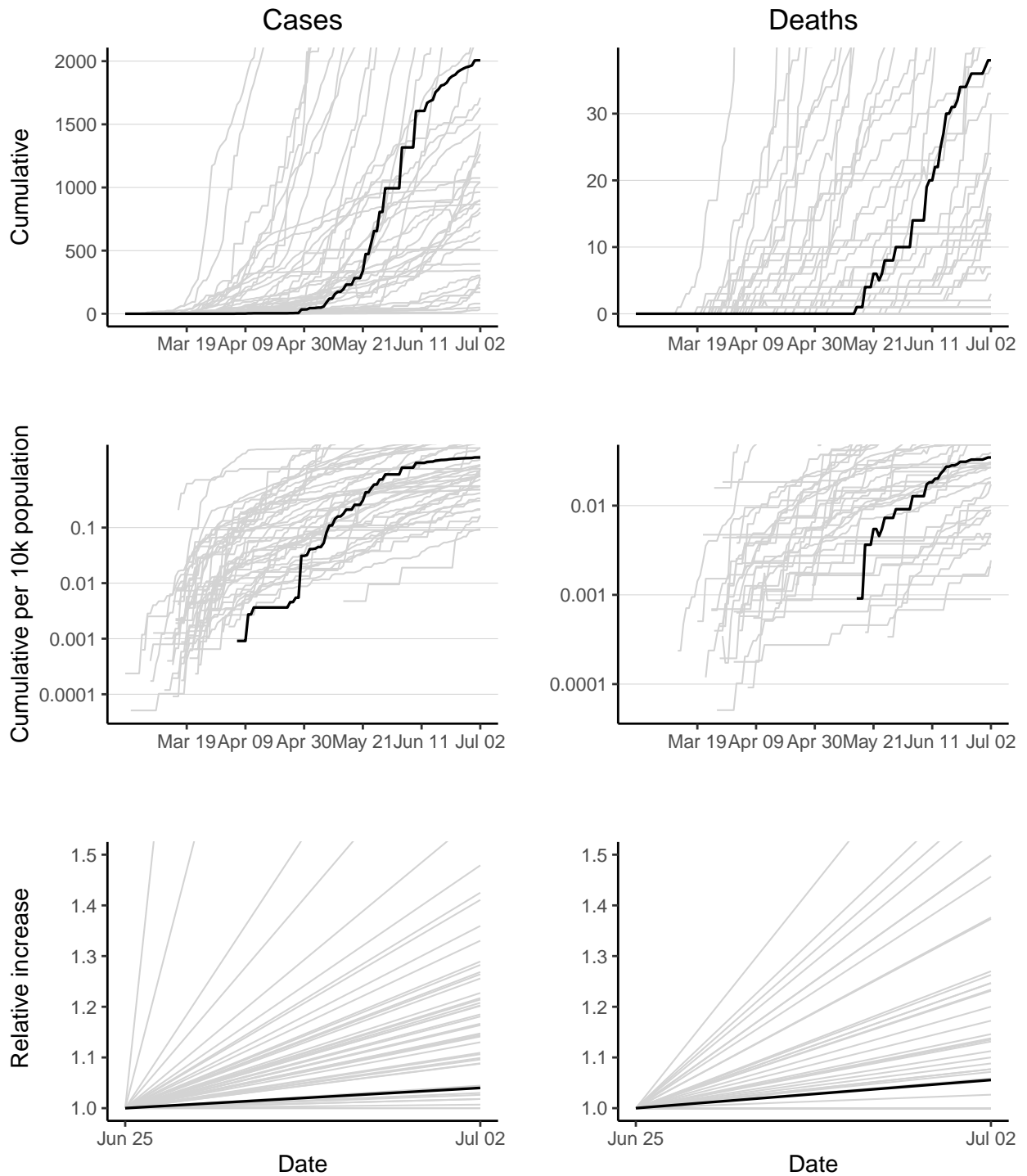
# South Africa



South Africa has 159333 reported case(s) (1st in the region) and 2749 reported death(s) (1st). Cumulative counts per 10,000 population of reported cases and deaths are 28 (1st) and 0.48 (2nd) respectively. The doubling times of reported cases and deaths over the last 7 days are 13.7 days (7th) and 22 days (13th).

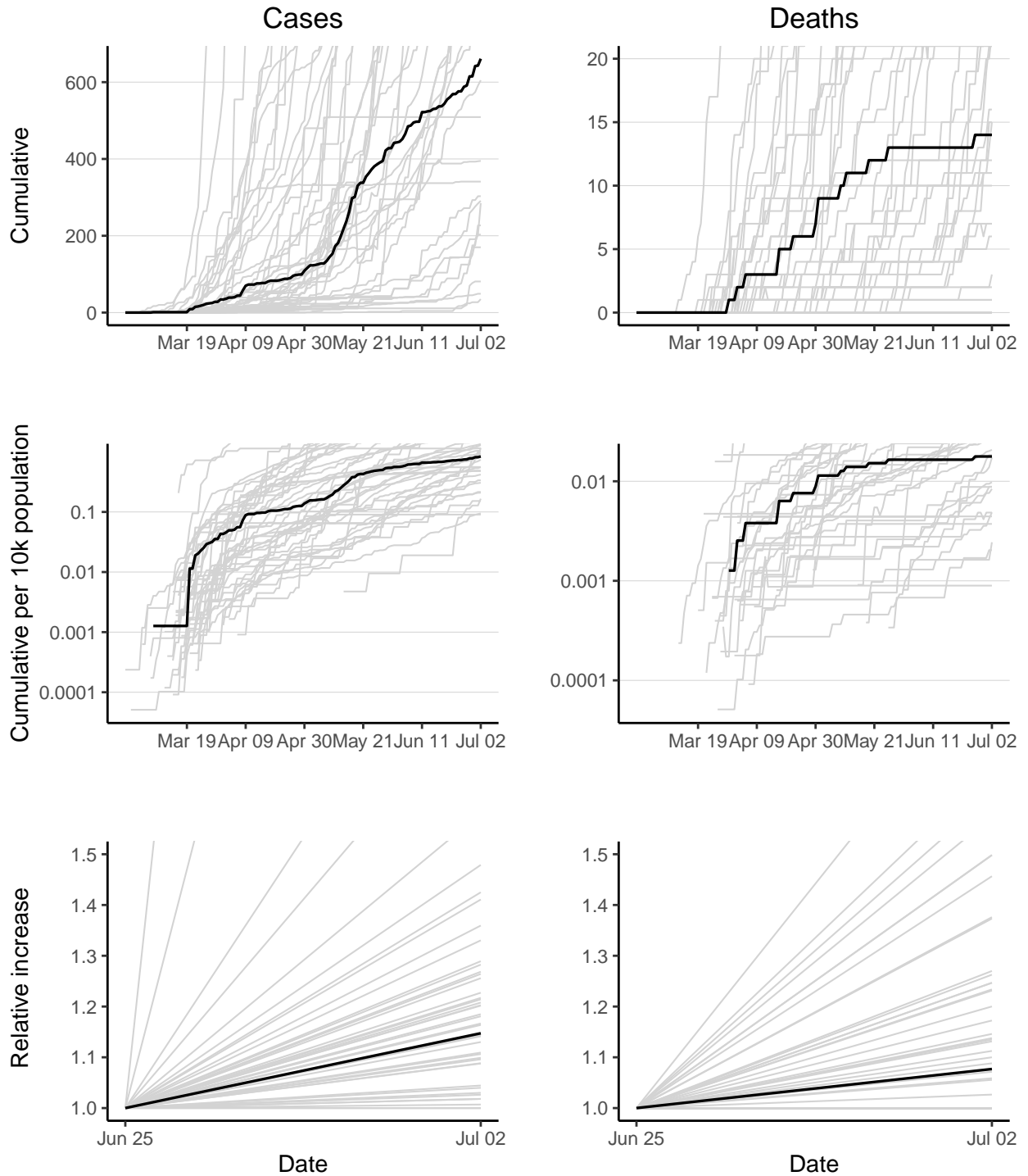


# South Sudan



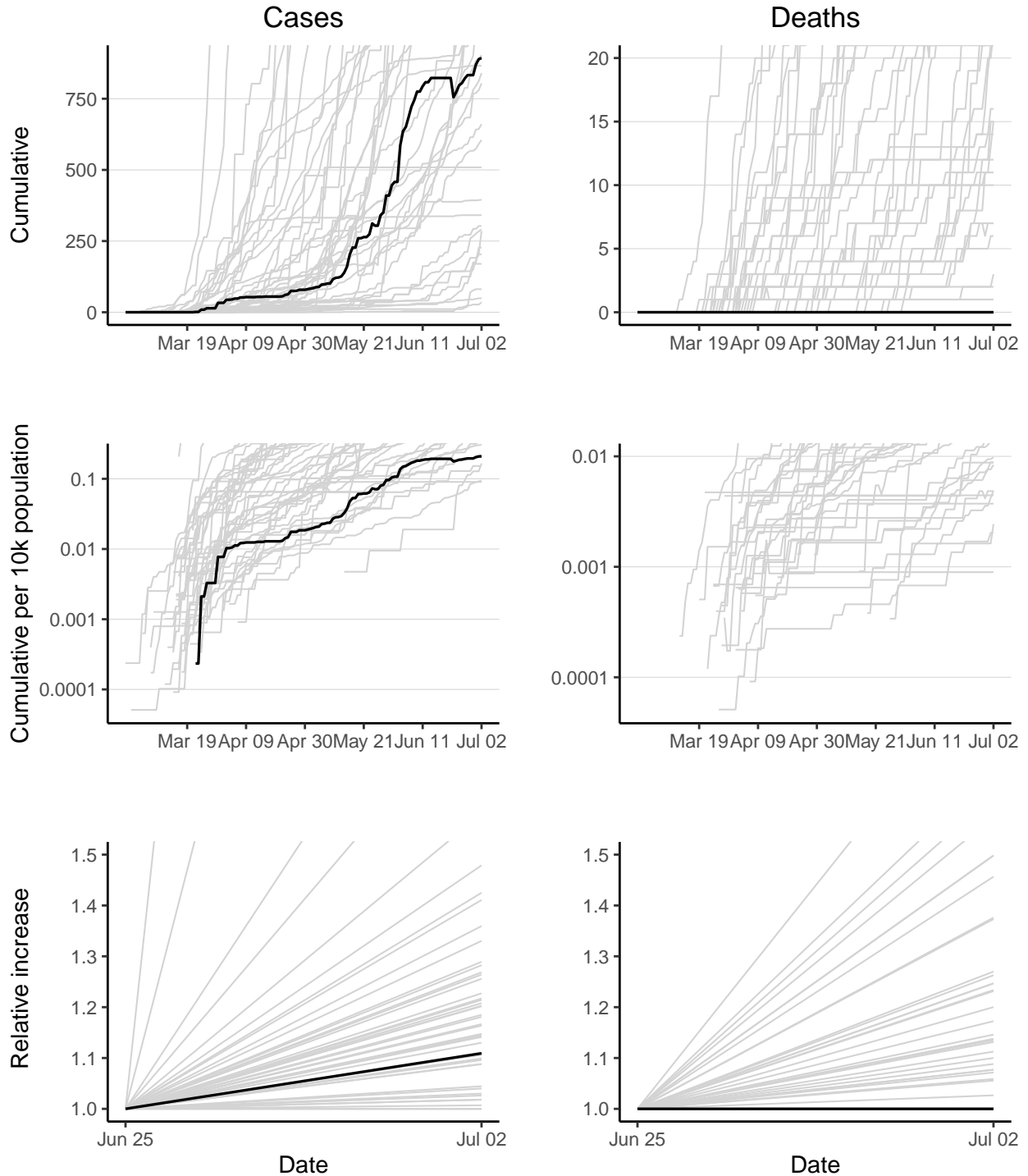
South Sudan has 2007 reported case(s) (17th in the region) and 38 reported death(s) (20th). Cumulative counts per 10,000 population of reported cases and deaths are 1.8 (21st) and 0.035 (21st) respectively. The doubling times of reported cases and deaths over the last 7 days are 124 days (39th) and 89.7 days (29th).

# Togo



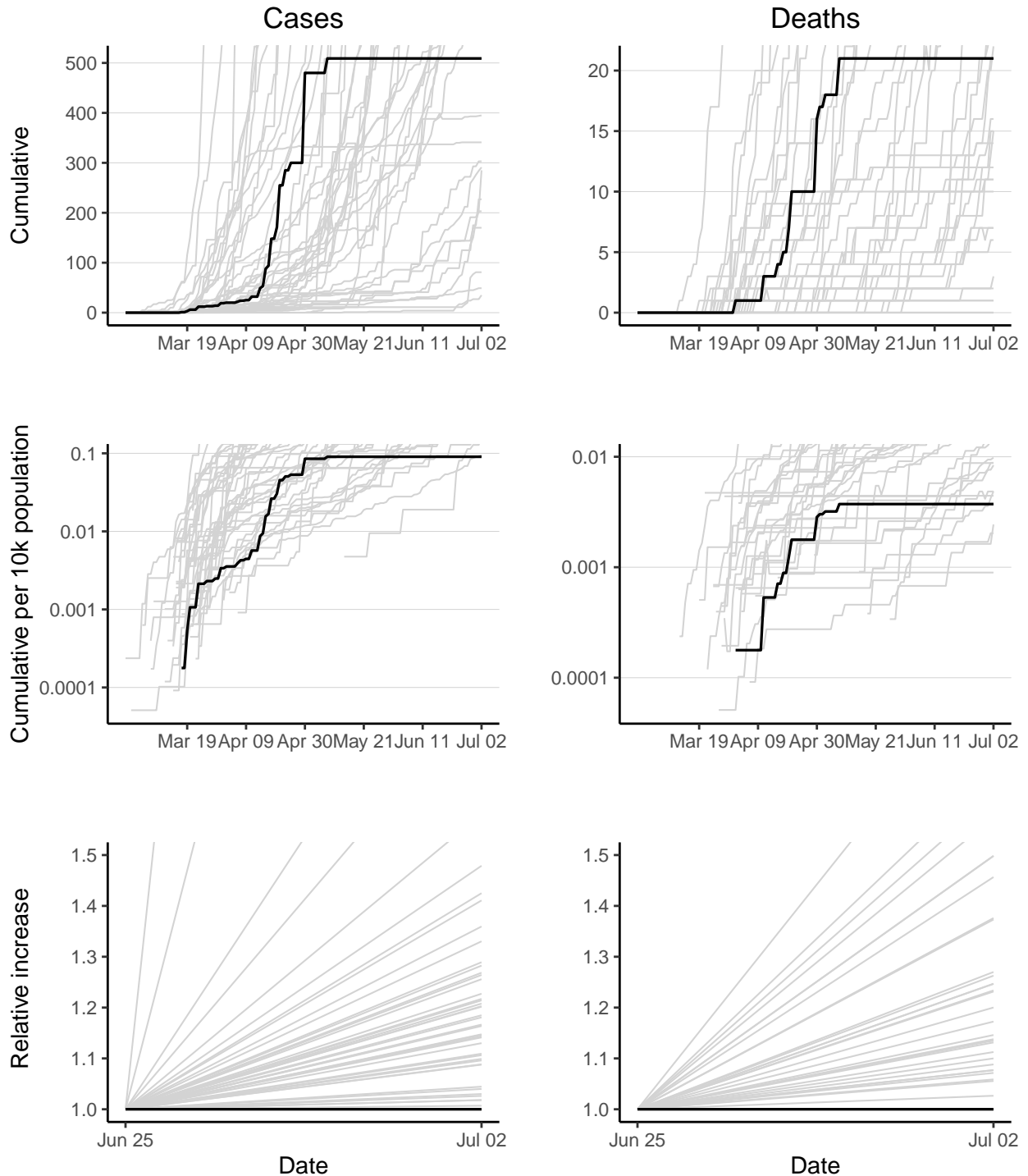
Togo has 661 reported case(s) (34th in the region) and 14 reported death(s) (31st). Cumulative counts per 10,000 population of reported cases and deaths are 0.84 (33rd) and 0.018 (30th) respectively. The doubling times of reported cases and deaths over the last 7 days are 35.3 days (27th) and 65.5 days (26th).

# Uganda



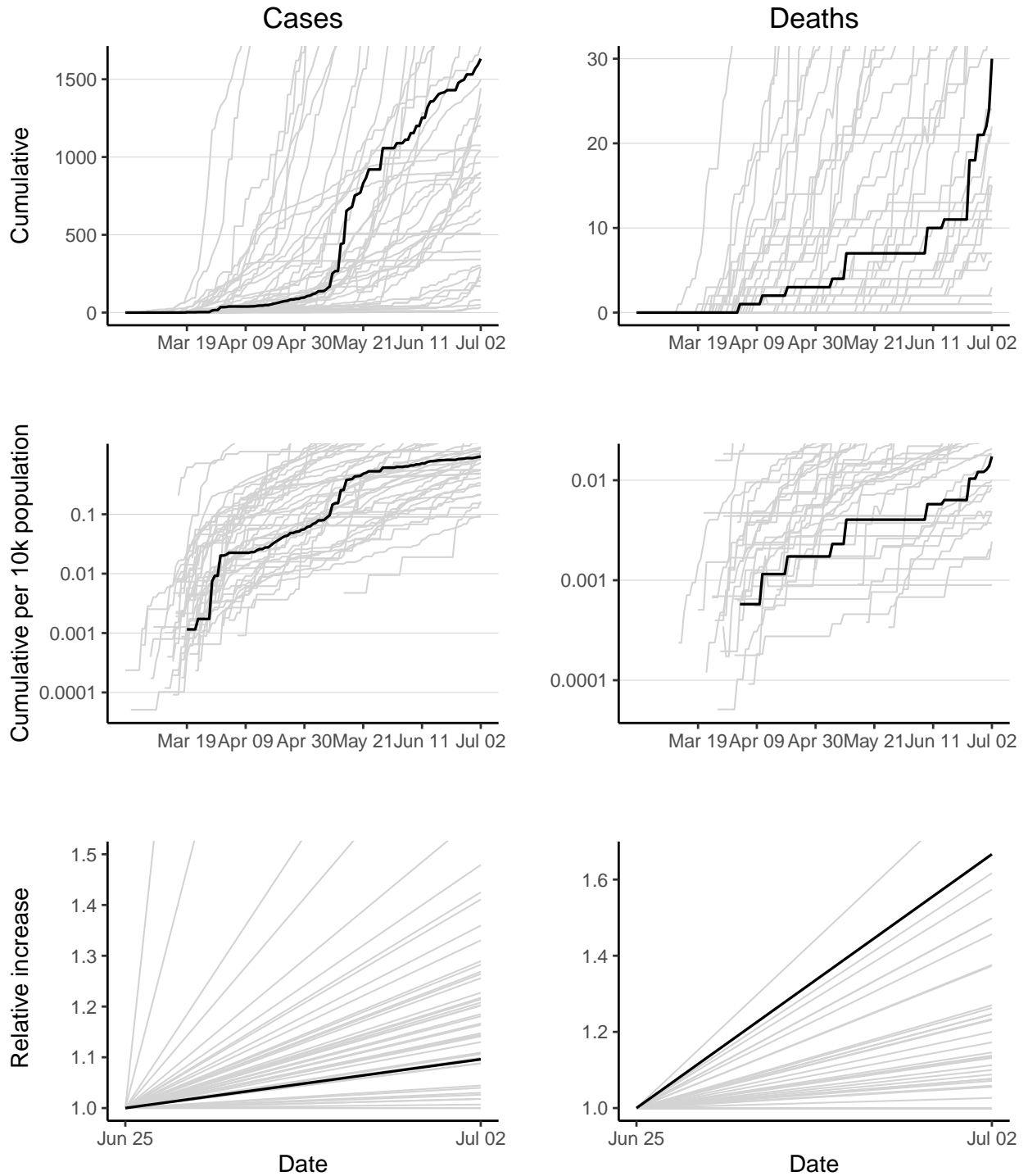
Uganda has 893 reported case(s) (30th in the region) and 0 reported death(s) (47th). Cumulative counts per 10,000 population of reported cases and deaths are 0.21 (43rd) and 0 (47th) respectively. The doubling time of reported cases over the last 7 days is 46.8 days (32nd). The doubling time of reported deaths cannot be calculated as no new deaths have been reported in last 7 days.

# United Republic of Tanzania



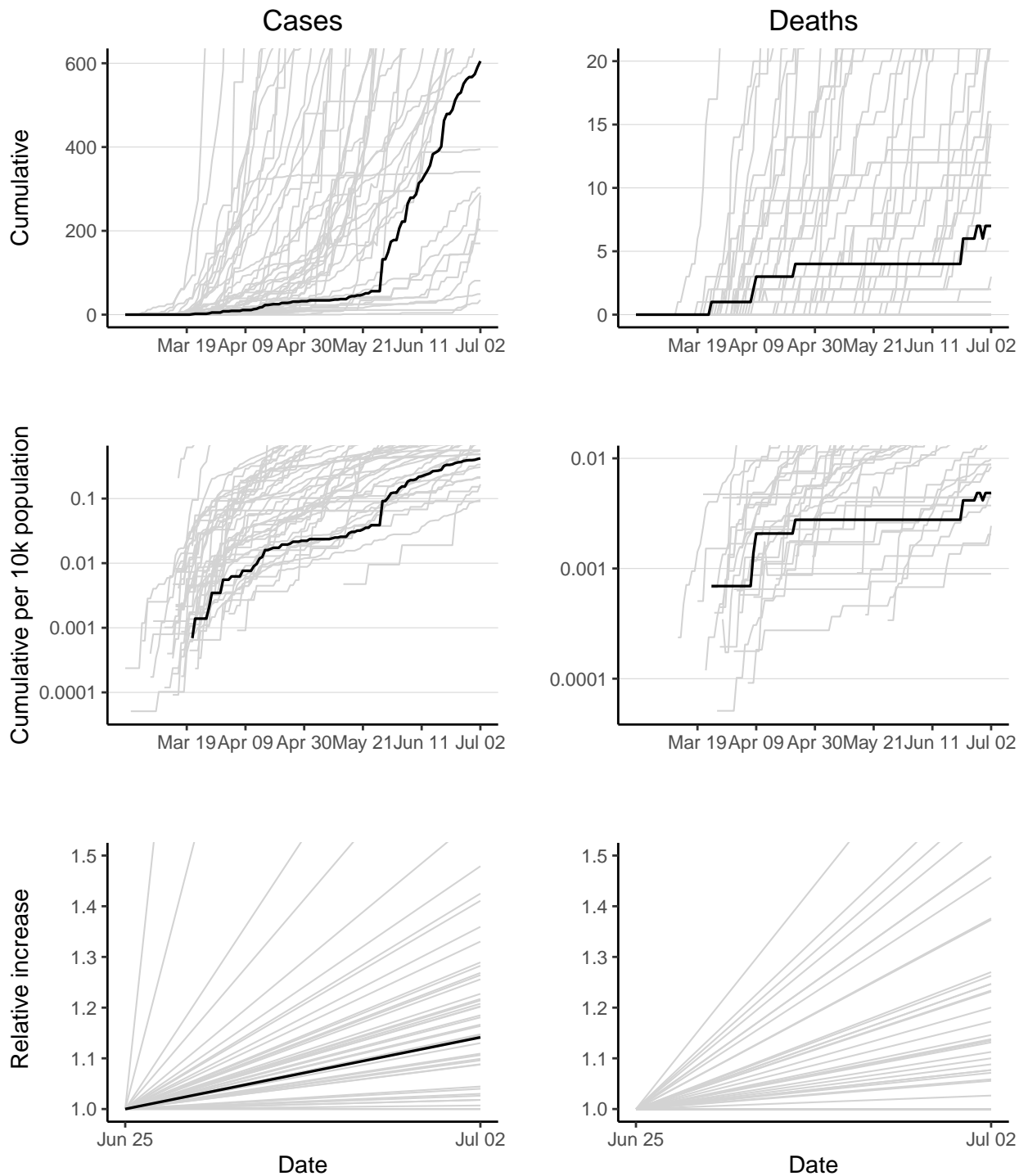
United Republic of Tanzania has 509 reported case(s) (36th in the region) and 21 reported death(s) (27th). Cumulative counts per 10,000 population of reported cases and deaths are 0.09 (47th) and 0.0037 (39th) respectively. The doubling time of reported cases cannot be calculated as no new cases have 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 1632 reported case(s) (19th in the region) and 30 reported death(s) (23rd). Cumulative counts per 10,000 population of reported cases and deaths are 0.94 (29th) and 0.017 (31st) respectively. The doubling times of reported cases and deaths over the last 7 days are 52.9 days (35th) and 9.5 days (2nd).

# Zimbabwe



Zimbabwe has 605 reported case(s) (35th in the region) and 7 reported death(s) (37th). Cumulative counts per 10,000 population of reported cases and deaths are 0.42 (39th) and 0.0048 (37th) respectively. The doubling time of reported cases over the last 7 days is 36.7 days (30th). The doubling time of reported deaths cannot be calculated as some deaths have been redacted 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 02/07/2020).
- 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 02/07/2020).
- 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	159333	158680	159983
Nigeria	26484	NA	NA
Ghana	18134	17919	18355
Algeria	14272	14081	14466
Cameroon	12592	NA	NA
Cote d'Ivoire	9499	9342	9657
Democratic Republic of the Congo	7121	6993	7260
Senegal	6925	NA	NA
Kenya	6673	6549	6808
Ethiopia	6048	5919	6174
Guinea	5404	NA	NA
Gabon	5394	5281	5512
Mauritania	4472	4363	4586
Central African Republic	3745	3645	3852
Madagascar	2303	NA	NA
Mali	2181	2104	2258
South Sudan	2007	1934	2075
Guinea-Bissau	1710	1646	1782
Zambia	1632	1566	1697
Sierra Leone	1498	1437	1562
Congo	1443	1383	1508
Malawi	1342	1281	1401
Cabo Verde	1267	1207	1328
Benin	1199	NA	NA
Niger	1075	1018	1128
Equatorial Guinea	1043	987	1094
Rwanda	1042	990	1098
Burkina Faso	962	909	1014
Mozambique	903	855	951
Uganda	893	NA	NA
Chad	866	818	915
Eswatini	840	794	888
Liberia	804	760	850
Togo	661	617	703
Zimbabwe	605	566	643
United Republic of Tanzania	509	471	546
Sao Tome and Principe	395	NA	NA
Mauritius	341	NA	NA
Comoros	303	275	333
Angola	291	263	320
Namibia	285	260	313
Botswana	227	202	252
Eritrea	203	181	227
Burundi	170	149	191
Seychelles	81	67	96
Gambia	49	37	61
Lesotho	35	26	45



## Cumulative reported cases per 10,000 population

Country	Cum. reported cases per 10k pop	95%CI lower	95%CI upper
South Africa	27.5759852	27	28
Gabon	25.4521004	25	26
Cabo Verde	23.3004210	22	24
Sao Tome and Principe	18.7178953	NA	NA
Mauritania	10.1559755	10	10
Guinea-Bissau	9.1233623	9	10
Seychelles	8.3710548	7	10
Central African Republic	8.0254982	8	8
Equatorial Guinea	7.9680727	8	8
Eswatini	6.1448427	6	6
Ghana	6.0919590	6	6
Cameroon	4.9936079	NA	NA
Senegal	4.3678837	NA	NA
Guinea	4.3530382	NA	NA
Cote d'Ivoire	3.7891074	4	4
Comoros	3.6404180	3	4
Algeria	3.3797137	3	3
Congo	2.7515258	3	3
Mauritius	2.6950067	NA	NA
Sierra Leone	1.9581305	2	2
South Sudan	1.8285483	2	2
Liberia	1.6684039	2	2
Nigeria	1.3520886	NA	NA
Kenya	1.2984256	1	1
Namibia	1.1640944	1	1
Mali	1.1432202	1	1
Benin	1.0439660	NA	NA
Botswana	1.0070422	1	1
Zambia	0.9405352	1	1
Madagascar	0.8769202	NA	NA
Democratic Republic of the Congo	0.8470515	1	1
Rwanda	0.8470209	1	1
Togo	0.8378655	1	1
Malawi	0.7396664	1	1
Chad	0.5595128	1	1
Ethiopia	0.5537216	1	1
Burkina Faso	0.4870508	0	1
Niger	0.4789923	0	1
Zimbabwe	0.4190036	0	0
Eritrea	0.3355372	0	0
Mozambique	0.3061436	0	0
Gambia	0.2149027	0	0
Uganda	0.2090202	NA	NA
Lesotho	0.1660238	0	0
Burundi	0.1521201	0	0
Angola	0.0944506	0	0
United Republic of Tanzania	0.0903791	0	0

## Cumulative deaths

Country	Cum. reported deaths	95%CI lower	95%CI upper
South Africa	2749	NA	NA
Algeria	920	876	972
Nigeria	603	563	646
Cameroon	313	284	342
Democratic Republic of the Congo	174	152	196
Kenya	149	NA	NA
Mauritania	129	110	147
Ghana	117	99	135
Mali	116	98	134
Senegal	116	99	135
Ethiopia	107	90	125
Chad	74	58	89
Cote d'Ivoire	68	55	82
Niger	67	54	81
Sierra Leone	60	48	72
Burkina Faso	53	41	65
Central African Republic	47	36	59
Congo	42	NA	NA
Gabon	42	32	53
South Sudan	38	NA	NA
Liberia	37	27	47
Guinea	33	24	42
Zambia	30	21	39
Guinea-Bissau	24	16	32
Madagascar	22	15	29
Benin	21	NA	NA
United Republic of Tanzania	21	14	28
Malawi	16	10	23
Angola	15	9	21
Cabo Verde	15	9	22
Togo	14	8	20
Equatorial Guinea	12	7	18
Eswatini	11	6	17
Sao Tome and Principe	11	NA	NA
Mauritius	10	5	16
Comoros	7	3	11
Zimbabwe	7	NA	NA
Mozambique	6	2	10
Rwanda	3	1	6
Gambia	2	0	5
Botswana	1	0	3
Burundi	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	0.5212578	NA	NA
South Africa	0.4757733	NA	NA
Mauritania	0.2929608	0	0
Cabo Verde	0.2758534	0	0
Algeria	0.2178627	0	0
Gabon	0.1981810	0	0
Guinea-Bissau	0.1280472	0	0
Cameroon	0.1241264	0	0
Central African Republic	0.1007205	0	0
Equatorial Guinea	0.0916749	0	0
Comoros	0.0841021	0	0
Eswatini	0.0804682	0	0
Congo	0.0800860	NA	NA
Mauritius	0.0790325	0	0
Sierra Leone	0.0784298	0	0
Liberia	0.0767798	0	0
Senegal	0.0731660	0	0
Mali	0.0608040	0	0
Chad	0.0478106	0	0
Ghana	0.0393051	0	0
South Sudan	0.0346212	NA	NA
Nigeria	0.0307850	0	0
Niger	0.0298535	0	0
Kenya	0.0289923	NA	NA
Cote d'Ivoire	0.0271249	0	0
Burkina Faso	0.0268334	0	0
Guinea	0.0265822	0	0
Democratic Republic of the Congo	0.0206975	0	0
Benin	0.0182846	NA	NA
Togo	0.0177460	0	0
Zambia	0.0172893	0	0
Ethiopia	0.0097963	0	0
Malawi	0.0088187	0	0
Gambia	0.0087715	0	0
Madagascar	0.0083770	0	0
Angola	0.0048686	0	0
Zimbabwe	0.0048480	NA	NA
Botswana	0.0044363	0	0
United Republic of Tanzania	0.0037288	0	0
Rwanda	0.0024386	0	0
Mozambique	0.0020342	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
Seychelles	2.4	1.9	3.1
Namibia	3.7	3.3	4.2
Lesotho	6.7	4.5	10.5
Botswana	8.1	6.9	9.6
Malawi	10.6	9.8	11.5
Angola	12.4	10.5	15.0
South Africa	13.7	13.6	13.8
Eritrea	14.1	11.6	18.1
Mauritania	15.8	15.2	16.7
Benin	17.0	NA	NA
Madagascar	19.1	NA	NA
Kenya	19.5	18.7	20.4
Cabo Verde	20.4	18.5	22.6
Congo	20.7	18.8	22.6
Rwanda	21.3	19.1	23.9
Central African Republic	23.7	22.2	25.2
Eswatini	24.7	21.6	28.7
Liberia	25.0	21.9	28.9
Ghana	25.7	25.0	26.5
Nigeria	26.3	NA	NA
Ethiopia	26.4	25.2	27.8
Mozambique	28.6	25.1	32.8
Burundi	29.2	21.7	42.3
Gambia	31.5	18.9	73.7
Algeria	31.7	30.6	33.0
Cote d'Ivoire	32.0	30.6	33.7
Togo	35.3	29.7	42.6
Democratic Republic of the Congo	35.5	33.7	37.6
Comoros	36.2	28.9	49.5
Zimbabwe	36.7	30.6	45.0
Senegal	39.7	NA	NA
Uganda	46.8	NA	NA
Sierra Leone	48.0	42.0	55.9
Guinea-Bissau	51.4	45.2	58.8
Zambia	52.9	46.4	60.7
Gabon	57.3	52.9	61.9
Mali	57.7	51.1	65.5
Guinea	111.6	NA	NA
South Sudan	124.0	104.7	152.8
Burkina Faso	164.3	123.3	233.6
Cameroon	187.3	NA	NA
Sao Tome and Principe	271.4	NA	NA
Niger	272.1	193.6	428.2
Chad	697.9	421.6	2071.9
Equatorial Guinea	NA	Inf	Inf
Mauritius	NA	NA	NA
United Republic of Tanzania	NA	Inf	Inf

## Doubling time (deaths)

Country	Doubling time (days)	95%CI lower	95%CI upper
Zimbabwe	-1.0	NA	NA
Cabo Verde	7.7	4.4	16.9
Zambia	9.5	6.3	16.9
Benin	10.1	NA	NA
Eswatini	10.7	4.9	38.9
Angola	12.0	5.9	31.5
Rwanda	12.0	4.4	Inf
Malawi	12.9	7.0	36.3
Madagascar	15.2	8.4	38.8
Ethiopia	15.3	11.7	21.4
Central African Republic	20.3	12.9	39.6
Guinea-Bissau	20.8	11.0	65.5
Senegal	22.0	16.5	32.6
South Africa	22.0	NA	NA
Democratic Republic of the Congo	23.1	17.5	31.5
Ghana	23.3	16.9	34.5
Mozambique	26.6	7.0	Inf
Cote d'Ivoire	30.5	20.0	59.6
Kenya	35.6	NA	NA
Guinea	37.6	18.5	148.0
Congo	38.3	NA	NA
Mauritania	39.3	27.8	66.9
Nigeria	45.5	37.2	57.2
Sao Tome and Principe	50.9	NA	NA
Liberia	57.4	28.2	211.1
Gabon	65.5	33.1	259.6
Togo	65.5	21.7	Inf
Sierra Leone	70.3	38.3	279.0
Algeria	85.1	68.8	108.5
South Sudan	89.7	NA	NA
Mali	185.2	85.7	638.2
Botswana	NA	Inf	Inf
Burkina Faso	NA	Inf	Inf
Burundi	NA	Inf	Inf
Cameroon	NA	Inf	Inf
Chad	NA	Inf	Inf
Comoros	NA	Inf	Inf
Equatorial Guinea	NA	Inf	Inf
Gambia	NA	Inf	Inf
Mauritius	NA	Inf	Inf
Niger	NA	Inf	Inf
United Republic of Tanzania	NA	Inf	Inf
Eritrea	NA	NA	NA
Lesotho	NA	NA	NA
Namibia	NA	NA	NA
Seychelles	NA	NA	NA
Uganda	NA	NA	NA