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Supplemental Material

Projecting Temperature-Attributable Mortality and Hospital Admissions due to Enteric Infections in the Philippines

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Supplementary material

Table S1. Regional sociodemographic profiles

Major island group	Regions	GRDP per capita in 2017[a]	Population density in 2015[b]	Water coverage (%) in 2017[c]	Toilet coverage (%) in 2017[d]
Luzon	Cordillera Autonomous Region (CAR)	159,756	87	73.30	85.76
	Ilocos Region (Region 1)	102,915	388	96.84	93.85
	Cagayan Valley (Region 2)	101,390	116	86.24	88.62
	Central Luzon (Region 3)	159,443	512	91.49	92.38
	National Capital Region (NCR)	401,598	20,785	98.60	94.94
	Calabarzon (Region 4A)	160,625	870	95.97	92.31
	Southwestern Tagalog Region (Region 4B)	105,511	100	88.88	79.13
	Bicol Region (Region 5)	78,481	320	85.96	76.60
Visayas	Western Visayas (Region 6)	102,914	363	89.86	83.90
	Central Visayas (Region 7)	139,860	466	91.04	80.03
	Eastern Visayas (Region 8)	87,192	191	85.03	79.22
Mindanao	Zamboanga Peninsula (Region 9)	93,325	215	91.43	83.48
	Northern Mindanao (Region 10)	152,911	229	93.26	84.49
	Davao Region (Region 11)	148,272	239	92.46	85.52
	Soccsksargen (Region 12)	100,120	199	87.26	83.29
	Caraga (Region 13)	102,656	123	91.04	83.99
	Bangsamoro Autonomous Region of Muslim Mindanao (BARMM)	47,471	103	52.71	26.87

[a]Gross regional domestic product per capital in year 2017 expressed in Philippine pesos at October 2020 prices reported by the Philippine Statistics Authority

[b]Population density in year 2015 expressed in persons per square kilometre reported by the Philippine Statistics Authority. The latest available census was in year 2015.

[c]Percentage of households with access to improve safe water supply in year 2017 reported by the Department of Health

[d]Percentage of households with sanitary toilet in year 2017 reported by the Department of Health

Table S2. Number and proportion of etiologies of mortality due to enteric infections by Philippine region in 2014–2017

Region	Total deaths	A00 (%)	A01 (%)	A02 (%)	A03 (%)	A04 (%)	A05 (%)	A06 (%)	A07 (%)	A08 (%)	A09 (%)
CAR	219	1 (0.5)	26 (11.9)	0 (0)	0 (0)	2 (0.9)	0 (0)	10 (4.6)	0 (0)	1 (0.5)	179 (81.7)
1	839	0 (0)	74 (8.8)	1 (0.1)	0 (0)	4 (0.5)	1 (0.1)	32 (3.8)	2 (0.2)	5 (0.6)	720 (85.8)
2	621	4 (0.6)	53 (8.5)	0 (0)	0 (0)	5 (0.8)	0 (0)	24 (3.9)	0 (0)	3 (0.5)	532 (85.7)
3	1458	0 (0)	43 (2.9)	0 (0)	0 (0)	3 (0.2)	2 (0.1)	68 (4.7)	0 (0)	3 (0.2)	1339 (91.8)
NCR	2067	2 (0.1)	49 (2.4)	5 (0.2)	1 (0)	20 (1)	2 (0.1)	134 (6.5)	2 (0.1)	4 (0.2)	1848 (89.4)
4A	2090	1 (0)	62 (3)	1 (0)	0 (0)	1 (0)	0 (0)	93 (4.4)	1 (0)	16 (0.8)	1915 (91.6)
4B	502	2 (0.4)	46 (9.2)	1 (0.2)	0 (0)	0 (0)	4 (0.8)	18 (3.6)	0 (0)	2 (0.4)	429 (85.5)
5	1285	2 (0.2)	134 (10.4)	2 (0.2)	0 (0)	5 (0.4)	2 (0.2)	42 (3.3)	0 (0)	4 (0.3)	1094 (85.1)
6	2033	12 (0.6)	334 (16.4)	1 (0)	1 (0)	6 (0.3)	1 (0)	100 (4.9)	1 (0)	5 (0.2)	1572 (77.3)
7	2092	1 (0)	184 (8.8)	4 (0.2)	2 (0.1)	5 (0.2)	1 (0)	51 (2.4)	0 (0)	15 (0.7)	1829 (87.4)
8	989	1 (0.1)	107 (10.8)	1 (0.1)	1 (0.1)	8 (0.8)	1 (0.1)	40 (4)	0 (0)	2 (0.2)	828 (83.7)
9	887	2 (0.2)	107 (12.1)	0 (0)	0 (0)	0 (0)	4 (0.5)	27 (3)	0 (0)	3 (0.3)	744 (83.9)
10	1035	4 (0.4)	110 (10.6)	0 (0)	0 (0)	2 (0.2)	1 (0.1)	52 (5)	0 (0)	7 (0.7)	859 (83)
11	826	1 (0.1)	61 (7.4)	2 (0.2)	0 (0)	0 (0)	0 (0)	58 (7)	1 (0.1)	1 (0.1)	702 (85)
12	724	0 (0)	66 (9.1)	2 (0.3)	0 (0)	1 (0.1)	0 (0)	34 (4.7)	0 (0)	5 (0.7)	616 (85.1)
13	518	1 (0.2)	45 (8.7)	1 (0.2)	0 (0)	0 (0)	2 (0.4)	29 (5.6)	0 (0)	0 (0)	440 (84.9)

BARMM	202	1 (0.5)	22 (10.9)	0 (0)	0 (0)	1 (0.5)	1 (0.5)	2 (1)	0 (0)	0 (0)	175 (86.6)
Philippines	18387	35 (0.2)	1523 (8.3)	21 (0.1)	5 (0)	63 (0.3)	22 (0.1)	814 (4.4)	7 (0)	76 (0.4)	15821 (86)

A00=cholera; A01=typhoid and paratyphoid fevers; A02=other salmonella infections; A03=shigellosis; A04=other bacterial intestinal infections; A05=other bacterial foodborne intoxications; A06=amebiasis; A07=other protozoal intestinal diseases; A08=viral and other specific intestinal infections; A09=infectious gastroenteritis and colitis, unspecified;
NCR=National Capital Region; CAR=Cordillera Autonomous Region; BARMM=Bangsamoro Autonomous Region of Muslim Mindanao
Note: Table S1 lists the full names of the regions.

Table S3. Number and proportion of etiologies of hospital admissions due to enteric infections by Philippine region in 2014–2017

Region	**Total deaths**	**A00 (%)**	**A01 (%)**	**A02 (%)**	**A03 (%)**	**A04 (%)**	**A05 (%)**	**A06 (%)**	**A07 (%)**	**A08 (%)**	**A09 (%)**
CAR	55827	0 (0)	13023 (23.3)	45 (0.1)	14 (0)	518 (0.9)	53 (0.1)	4015 (7.2)	92 (0.2)	90 (0.2)	37977 (68)
1	141374	20 (0)	18575 (13.1)	426 (0.3)	18 (0)	231 (0.2)	82 (0.1)	6467 (4.6)	208 (0.1)	483 (0.3)	114864 (81.2)
2	83985	2 (0)	9525 (11.3)	115 (0.1)	11 (0)	176 (0.2)	79 (0.1)	4424 (5.3)	60 (0.1)	92 (0.1)	69501 (82.8)
3	161815	5 (0)	8096 (5)	81 (0.1)	14 (0)	381 (0.2)	112 (0.1)	13136 (8.1)	59 (0)	169 (0.1)	139762 (86.4)
NCR	104952	50 (0)	4686 (4.5)	283 (0.3)	98 (0.1)	719 (0.7)	186 (0.2)	8339 (7.9)	191 (0.2)	715 (0.7)	89685 (85.5)
4A	201930	8 (0)	28805 (14.3)	1227 (0.6)	14 (0)	357 (0.2)	94 (0)	17972 (8.9)	140 (0.1)	177 (0.1)	153136 (75.8)
4B	46361	5 (0)	7800 (16.8)	1244 (2.7)	7 (0)	68 (0.1)	62 (0.1)	1995 (4.3)	461 (1)	70 (0.2)	34649 (74.7)
5	85360	19 (0)	8860 (10.4)	316 (0.4)	11 (0)	165 (0.2)	68 (0.1)	3072 (3.6)	217 (0.3)	86 (0.1)	72546 (85)
6	126475	2 (0)	14216 (11.2)	325 (0.3)	4 (0)	108 (0.1)	34 (0)	9798 (7.7)	105 (0.1)	147 (0.1)	101736 (80.4)
7	134414	6 (0)	6616 (4.9)	289 (0.2)	83 (0.1)	189 (0.1)	221 (0.2)	15035 (11.2)	578 (0.4)	258 (0.2)	111139 (82.7)

8	111210	901 (0.8)	4964 (4.5)	51 (0)	94 (0.1)	70 (0.1)	189 (0.2)	5103 (4.6)	59 (0.1)	752 (0.7)	99027 (89)
9	92972	15 (0)	16015 (17.2)	28 (0)	2 (0)	46 (0)	63 (0.1)	5119 (5.5)	46 (0)	56 (0.1)	71582 (77)
10	171078	2 (0)	35065 (20.5)	169 (0.1)	20 (0)	37 (0)	206 (0.1)	17280 (10.1)	3053 (1.8)	210 (0.1)	115036 (67.2)
11	149460	0 (0)	17226 (11.5)	152 (0.1)	16 (0)	134 (0.1)	34 (0)	17405 (11.6)	593 (0.4)	148 (0.1)	113752 (76.1)
12	178298	282 (0.2)	37383 (21)	671 (0.4)	23 (0)	148 (0.1)	50 (0)	11832 (6.6)	254 (0.1)	80 (0)	127575 (71.6)
13	66589	2 (0)	6263 (9.4)	71 (0.1)	7 (0)	31 (0)	124 (0.2)	7885 (11.8)	310 (0.5)	213 (0.3)	51683 (77.6)
BARMM	92168	6 (0)	13298 (14.4)	51 (0.1)	3 (0)	44 (0)	32 (0)	3002 (3.3)	40 (0)	24 (0)	75668 (82.1)
Philippines	2004268	1325 (0.1)	250416 (12.5)	5544 (0.3)	439 (0)	3422 (0.2)	1689 (0.1)	151879 (7.6)	6466 (0.3)	3770 (0.2)	1579318 (78.8)

A00=cholera; A01=typhoid and paratyphoid fevers; A02=other salmonella infections; A03=shigellosis; A04=other bacterial intestinal infections; A05=other bacterial foodborne intoxications; A06=amebiasis; A07=other protozoal intestinal diseases; A08=viral and other specific intestinal infections; A09=infectious gastroenteritis and colitis, unspecified;

NCR=National Capital Region; CAR=Cordillera Autonomous Region; BARMM=Bangsamoro Autonomous Region of Muslim Mindanao

Note: Table S1 lists the full names of the regions.

Table S4. Number and proportion of mortality due to enteric infections by Philippine region and age-groups in 2014–2017

Region	Number of deaths (%)		
	≤5 years old	6-64 years old	65≥ years old
CAR	36 (16.44)	71 (32.42)	112 (51.14)
1	291 (34.68)	266 (31.7)	282 (33.61)
2	154 (24.84)	217 (35)	249 (40.16)
3	708 (48.56)	406 (27.85)	344 (23.59)
NCR	1116 (54.2)	634 (30.79)	309 (15.01)
4A	1010 (48.33)	617 (29.52)	463 (22.15)
4B	195 (38.84)	178 (35.46)	129 (25.7)
5	564 (43.89)	452 (35.18)	269 (20.93)
6	557 (27.41)	769 (37.84)	706 (34.74)
7	891 (42.59)	622 (29.73)	579 (27.68)
8	324 (32.79)	345 (34.92)	319 (32.29)
9	289 (32.58)	357 (40.25)	241 (27.17)
10	349 (33.75)	376 (36.36)	309 (29.88)
11	303 (36.68)	317 (38.38)	206 (24.94)
12	261 (36.05)	274 (37.85)	189 (26.1)
13	189 (36.49)	184 (35.52)	145 (27.99)
BARMM	97 (48.26)	70 (34.83)	34 (16.92)
Philippines	7347 (39.96)	6168 (33.55)	4898 (26.64)

Table S5. Number and proportion of hospital admissions due to enteric infections by Philippine region and age-groups in 2014–2017

Region	Number of hospital admissions (%)		
	≤5 years old	6-64 years old	65≥ years old
CAR	24363 (43.64)	26487 (47.44)	4977 (8.92)
1	59123 (41.82)	65418 (46.27)	16833 (11.91)
2	40284 (47.97)	35643 (42.44)	8058 (9.59)
3	87779 (54.25)	59856 (36.99)	14180 (8.76)
NCR	54140 (51.59)	45030 (42.91)	5782 (5.51)
4A	93568 (46.34)	93500 (46.3)	14862 (7.36)
4B	21457 (46.28)	20838 (44.95)	4066 (8.77)
5	37508 (43.94)	39252 (45.98)	8600 (10.07)
6	53894 (42.61)	60305 (47.68)	12276 (9.71)
7	60314 (44.87)	63536 (47.27)	10564 (7.86)
8	60116 (54.06)	44249 (39.79)	6845 (6.16)
9	43055 (46.31)	44550 (47.92)	5367 (5.77)
10	77777 (45.46)	83937 (49.06)	9364 (5.47)
11	68847 (46.06)	72343 (48.4)	8270 (5.53)
12	74776 (41.94)	94573 (53.04)	8949 (5.02)
13	30705 (46.11)	30645 (46.02)	5239 (7.87)
BARMM	35433 (38.44)	52874 (57.37)	3861 (4.19)
Philippines	923139 (46.06)	933036 (46.55)	148093 (7.39)

Table S6. Number and proportion of physician-attended and unattended mortality due to enteric infections by Philippine region in 2014–2017

Region	Number of physician-attended deaths (%)	
	Unattended	Attended
CAR	93 (42.47)	126 (57.53)
1	297 (35.4)	542 (64.6)
2	283 (45.57)	338 (54.43)
3	613 (42.04)	845 (57.96)
NCR	594 (28.74)	1473 (71.26)
4A	903 (43.21)	1187 (56.79)
4B	249 (49.6)	253 (50.4)
5	589 (45.84)	696 (54.16)
6	757 (37.24)	1276 (62.76)
7	847 (40.49)	1245 (59.51)
8	457 (46.21)	532 (53.79)
9	390 (43.97)	497 (56.03)
10	395 (38.16)	640 (61.84)
11	298 (36.08)	528 (63.92)
12	330 (45.58)	394 (54.42)
13	226 (43.63)	292 (56.37)
BARMM	77 (38.12)	125 (61.88)
Philippines	7398 (40.23)	10989 (59.77)

Table S7. Philippine-level projected general circulation model-ensemble mean temperatures by Representative Concentration Pathways (RCPs) and decade based on the Inter-Sectoral Impact Model Intercomparison Project 2b

Decade	Mean temperatures in °C (difference from 2010-19)			
	RCP 2.6	RCP 4.5	RCP 6.0	RCP 8.5
2010-19	25.5 (0)	25.51 (0)	25.48 (0)	25.58 (0)
2020-29	25.79 (0.29)	25.79 (0.28)	25.71 (0.22)	25.76 (0.18)
2030-39	25.89 (0.39)	25.98 (0.47)	25.83 (0.35)	26.13 (0.55)
2040-49	26.04 (0.54)	26.23 (0.71)	26.09 (0.61)	26.43 (0.85)
2050-59	25.93 (0.43)	26.38 (0.87)	26.21 (0.73)	26.83 (1.25)
2060-69	26.02 (0.52)	26.56 (1.04)	26.48 (1)	27.33 (1.75)
2070-79	26.06 (0.56)	26.72 (1.21)	26.74 (1.25)	27.79 (2.21)
2080-89	26 (0.49)	26.85 (1.34)	27.02 (1.54)	28.18 (2.6)
2090-99	25.95 (0.45)	26.8 (1.29)	27.25 (1.77)	28.63 (3.05)

Table S8. Philippine-level projected mean annual population in millions by Shared Socioeconomic Pathways (SSPs) and decade based on the Inter-Sectoral Impact Model Intercomparison Project 2b

Decade	Mean annual population in millions (difference from 2010-19)				
	SSP 1	**SSP 2**	**SSP 3**	**SSP 4**	**SSP 5**
2010-19	21.3 (0)	21.3 (0)	21.3 (0)	21.6 (0)	21.2 (0)
2020-29	24.4 (14.91)	24.7 (15.9)	25 (17.17)	25.9 (20.09)	24.3 (14.54)
2030-39	27.2 (27.84)	27.8 (30.73)	28.8 (35)	30.6 (41.73)	26.9 (26.88)
2040-49	29.3 (37.83)	30.5 (43.44)	32.5 (52.3)	35.3 (63.45)	28.9 (36.14)
2050-59	30.7 (44.45)	32.7 (53.69)	36.1 (69.18)	40 (85.11)	30.1 (41.96)
2060-69	31.4 (47.8)	34.4 (61.39)	39.5 (85.09)	44.4 (105.93)	30.7 (44.54)
2070-79	31.4 (47.86)	35.4 (66.3)	42.6 (99.74)	48.7 (125.52)	30.5 (43.99)
2080-89	30.7 (44.52)	35.9 (68.49)	45.5 (113.24)	52.6 (143.91)	29.8 (40.29)
2090-99	29.4 (38.16)	35.8 (68.3)	48.1 (125.47)	56.3 (160.8)	28.4 (33.82)

Table S9. Heterogeneity of multivariate meta-regression models for Philippine temperature–enteric infection associations in 2014-2017

Meta-predictors	Mortality due to enteric infections			Hospital admissions due to enteric infections		
	I^2	Q test	AIC	I^2	Q test	AIC
Intercept-only	50.6	64.79	99.5	97.6	1500.71	70.09
Popden	31.6	43.88	91.3	97.71	1310.66	68.18
Popden + avtemp + rangetemp	35.82	40.51	89.64	97.72	1143.90	69.81
Popden + GRDP	34.6	42.83	91.9	96.5	800.89	60.98
Popden + GRDP + water + sanitation	28.9	33.75	84.8	95.8	581.92	60.92

Popden=population density in 2015; avtemp=average temperature by region; rangetemp=temperature range by region (i.e., range is maximum value minus minimum value); GRDP=gross regional domestic product in 2017; water=percentage of households with access to safe water in 2017; sanitation=percentage of households with sanitary toilet in 2017

Table S10. Relative risks of cumulative 2-metre temperature-enteric infections associations by high and low temperatures relative to minimum risk temperatures in 2014-2017

Region	2-metre temperature (°C)		Relative risks (95%CI) for mortality due to enteric infections			Relative risks (95%CI) for hospital admissions due to enteric infections		
	95th pctl	5th pctl	High temperature	Low temperature	MRT (°C)	High temperature	Low temperature	MRT (°C)
CAR	23.8	18.8	1.504 (0.928; 2.438)	1.003 (0.958; 1.050)	19.2	1.186 (1.006; 1.398)	1.016 (0.958; 1.077)	19.9
1	28.4	23.9	1.186 (0.932; 1.509)	1.082 (0.909; 1.288)	25.7	1.017 (0.994; 1.041)	1.349 (1.135; 1.602)	28.8
2	27.9	20.5	1.318 (0.902; 1.925)	1.087 (0.881; 1.341)	23.0	1.623 (1.286; 2.049)	1.079 (1.022; 1.139)	19.5
3	29.2	23.7	1.135 (0.937; 1.376)	1.215 (0.957; 1.543)	26.6	1.008 (0.986; 1.030)	1.443 (1.192; 1.746)	29.6
NCR	29.5	24.2	1.839 (1.272; 2.658)	1.634 (1.141; 2.340)	26.6	1.060 (0.825; 1.361)	1.589 (0.999; 2.528)	27.9
4A	28.5	23.7	1.445 (1.112; 1.879)	1.018 (0.940; 1.103)	24.6	1.010 (0.965; 1.056)	1.371 (1.197; 1.570)	27.6
4B	27.7	24.2	1.213 (0.896; 1.642)	1.076 (0.887; 1.306)	25.5	1.010 (0.993; 1.027)	1.041 (0.861; 1.260)	27.9
5	28.1	24.1	1.261 (0.956; 1.663)	1.078 (0.916; 1.268)	25.5	1.504 (1.220; 1.855)	1.062 (1.014; 1.112)	23.6
6	27.9	24.5	1.349 (1.031; 1.764)	1.007 (0.948; 1.069)	25.0	1.185 (0.994; 1.412)	1.062 (1.018; 1.109)	24.0
7	27.5	24.6	1.030 (0.926; 1.146)	1.234 (0.986; 1.544)	26.6	1.011 (0.985; 1.037)	1.493 (1.266; 1.761)	27.8
8	27.8	24.6	1.239 (0.938; 1.637)	1.047 (0.912; 1.202)	25.6	1.118 (0.928; 1.347)	1.008 (0.968; 1.050)	24.2
9	27.2	24.9	1.226 (0.926; 1.623)	1.023 (0.912; 1.147)	25.5	1.482 (1.327; 1.654)	1.073 (0.996; 1.155)	25.6
10	25.7	23.0	1.106 (0.89; 1.375)	1.086 (0.911; 1.296)	24.2	1.021 (0.966; 1.081)	1.285 (1.149; 1.439)	25.0
11	26.8	24.2	1.025 (0.906; 1.159)	1.198 (0.907; 1.583)	26.0	1.136 (0.963; 1.339)	1.030 (0.998; 1.064)	23.9
12	27.1	24.0	1.184 (0.901; 1.555)	1.044 (0.883; 1.235)	25.1	1.180 (1.039; 1.339)	1.003 (0.971; 1.036)	24.4
13	27.2	24.2	1.392 (0.940; 2.063)	1.003 (0.954; 1.055)	24.5	1.134 (0.945; 1.361)	1.060 (1.025; 1.096)	23.9

BARMM	25.9	23.5	1.095 (0.867; 1.383)	1.155 (0.862; 1.547)	24.8	1.570 (1.358; 1.816)	1.009 (0.971; 1.049)	23.8
Philippines	27.9	22.6	1.215 (1.059; 1.395)	1.055 (0.955; 1.165)	24.9	1.076 (0.956; 1.211)	1.055 (0.953; 1.076)	24.8

pctl=percentile; CI=confidence interval; MRT=minimum risk temperature; NCR=National Capital Region; CAR=Cordillera Autonomous Region; BARMM=Bangsamoro Autonomous Region of Muslim Mindanao

Note: Table S1 lists the full names of the regions.

Table S11. Philippines-level temperature-attributable fractions of deaths due to enteric infections relative to 2010-2019 with no population change by Representative Concentration Pathway (RCP) scenarios, temperature range, and decade

RCPs	Decade	Temperature-attributable fractions (95% empirical confidence intervals)		
		High temperatures	Low temperatures	Overall
2.6	2010-19	0 (0; 0)	0 (0; 0)	0 (0; 0)
	2020-29	1.8 (-0.32; 3.59)	-0.58 (-1.87; 0.37)	1.22 (-1.93; 3.84)
	2030-39	2.06 (-0.85; 5.46)	-0.86 (-2.57; 0.54)	1.2 (-2.79; 5.89)
	2040-49	3.18 (-0.85; 6.37)	-1.07 (-2.69; 0.72)	2.11 (-3.3; 6.93)
	2050-59	2.26 (-0.82; 5.96)	-0.87 (-2.61; 0.6)	1.39 (-3.04; 6.02)
	2060-69	2.87 (-0.75; 6.87)	-1.15 (-2.95; 0.74)	1.73 (-3.35; 7.18)
	2070-79	3.11 (-0.93; 6.79)	-1.15 (-2.98; 0.76)	1.96 (-3.55; 7.08)
	2080-89	2.62 (-0.84; 6.43)	-0.99 (-2.66; 0.72)	1.64 (-3.11; 6.68)
	2090-99	2.34 (-1.05; 6.3)	-0.96 (-2.51; 0.65)	1.38 (-3.1; 6.5)
4.5	2010-19	0 (0; 0)	0 (0; 0)	0 (0; 0)
	2020-29	1.62 (-0.49; 3.67)	-0.66 (-1.59; 0.34)	0.96 (-1.88; 3.73)
	2030-39	2.85 (-0.66; 7.04)	-0.97 (-2.48; 0.66)	1.89 (-2.75; 6.96)
	2040-49	4.57 (-1.12; 9.68)	-1.21 (-3.17; 0.88)	3.36 (-3.93; 9.82)
	2050-59	5.52 (-1.22; 13.26)	-1.51 (-3.69; 0.99)	4.01 (-4.72; 13.31)
	2060-69	7.11 (-1.36; 16.14)	-1.71 (-4.18; 1.09)	5.4 (-5.18; 16.52)
	2070-79	8.49 (-1.37; 19.82)	-1.76 (-4.32; 1.14)	6.73 (-5.3; 20.23)
	2080-89	9.72 (-1.32; 20.23)	-1.88 (-4.62; 1.22)	7.84 (-5.51; 20.61)
	2090-99	9.36 (-1.28; 20.74)	-1.78 (-4.44; 1.17)	7.58 (-5.45; 20.98)
6.0	2010-19	0 (0; 0)	0 (0; 0)	0 (0; 0)
	2020-29	0.95 (-0.48; 2.77)	-0.55 (-1.43; 0.39)	0.41 (-1.78; 2.69)
	2030-39	2.08 (-0.37; 5.47)	-0.66 (-2.29; 0.54)	1.42 (-2.12; 5.3)
	2040-49	3.6 (-1.09; 9.58)	-1.18 (-3.05; 0.84)	2.41 (-3.75; 9.48)
	2050-59	4.42 (-1.11; 11.28)	-1.37 (-3.46; 0.96)	3.06 (-4.17; 11.39)
	2060-69	6.82 (-1.29; 15.1)	-1.49 (-4.05; 1.11)	5.33 (-4.73; 15.51)
	2070-79	8.69 (-1.81; 18.99)	-1.81 (-4.56; 1.27)	6.88 (-5.92; 19.26)
	2080-89	11.83 (-1.55; 23.19)	-1.89 (-4.81; 1.32)	9.94 (-5.73; 23.48)
	2090-99	13.98 (-1.47; 27.62)	-1.97 (-5.05; 1.38)	12 (-6.1; 27.89)
8.5	2010-19	0 (0; 0)	0 (0; 0)	0 (0; 0)
	2020-29	1.05 (-0.56; 2.45)	-0.16 (-1.13; 0.39)	0.89 (-1.26; 2.77)
	2030-39	3.31 (-1.01; 7.78)	-0.97 (-2.66; 0.78)	2.33 (-3.28; 8.35)
	2040-49	5.62 (-1.39; 13.66)	-1.24 (-3.33; 0.96)	4.38 (-4.35; 14)
	2050-59	9.11 (-1.59; 20.16)	-1.48 (-3.89; 1.17)	7.63 (-5.13; 20.55)
	2060-69	14.06 (-1.47; 28.07)	-1.8 (-4.59; 1.29)	12.26 (-5.53; 28.52)
	2070-79	18.69 (-0.89; 35.82)	-1.88 (-4.8; 1.34)	16.8 (-5.38; 36.08)
	2080-89	23.07 (0.14; 42.43)	-1.92 (-4.87; 1.35)	21.15 (-4.57; 42.54)
	2090-99	27.55 (1.08; 48.12)	-1.97 (-4.97; 1.39)	25.59 (-3.53; 48.25)

Table S12. Philippines-level temperature-attributable fractions of hospital admissions due to enteric infections relative to 2010-2019 with no population change by Representative Concentration Pathway (RCP) scenarios, temperature range, and decade

RCPs	Decade	Temperature-attributable fractions (95% empirical confidence intervals)		
		High temperatures	Low temperatures	Overall
2.6	2010-19	0 (0; 0)	0 (0; 0)	0 (0; 0)
	2020-29	0.78 (-0.04; 1.65)	-0.86 (-1.67; -0.04)	-0.08 (-1.44; 1.12)
	2030-39	1.21 (0.11; 2.56)	-1.15 (-2.36; -0.03)	0.06 (-1.95; 1.79)
	2040-49	1.57 (0.11; 2.89)	-1.58 (-2.51; -0.52)	-0.01 (-2.25; 2.14)
	2050-59	1.32 (0.14; 2.83)	-1.24 (-2.56; -0.2)	0.08 (-1.94; 1.89)
	2060-69	1.5 (0.16; 3.24)	-1.61 (-2.84; -0.48)	-0.1 (-2.34; 2.24)
	2070-79	1.65 (0.17; 3.17)	-1.68 (-2.9; -0.57)	-0.03 (-2.36; 2.16)
	2080-89	1.48 (0.11; 3.15)	-1.43 (-2.58; -0.45)	0.05 (-2.08; 2.28)
	2090-99	1.35 (0.2; 2.91)	-1.33 (-2.48; -0.42)	0.02 (-2.07; 1.99)
4.5	2010-19	0 (0; 0)	0 (0; 0)	0 (0; 0)
	2020-29	0.7 (-0.05; 1.37)	-0.92 (-1.52; -0.34)	-0.22 (-1.44; 0.93)
	2030-39	1.42 (0.07; 3.32)	-1.37 (-2.57; -0.45)	0.05 (-1.97; 2.21)
	2040-49	2.2 (0.03; 4.47)	-1.91 (-3.21; -0.59)	0.29 (-2.84; 3.41)
	2050-59	2.77 (0.2; 6.19)	-2.28 (-3.83; -0.76)	0.49 (-3.27; 4.75)
	2060-69	3.28 (0.04; 7.45)	-2.68 (-4.39; -0.85)	0.6 (-4.05; 6.1)
	2070-79	3.94 (-0.05; 9.24)	-2.86 (-5.07; -0.88)	1.08 (-4.51; 7.49)
	2080-89	4.35 (-0.17; 9.37)	-3.14 (-5.07; -0.94)	1.21 (-5; 7.78)
	2090-99	4.26 (-0.07; 9.64)	-2.96 (-5.01; -0.88)	1.31 (-4.72; 8.13)
6.0	2010-19	0 (0; 0)	0 (0; 0)	0 (0; 0)
	2020-29	0.6 (0.03; 1.32)	-0.74 (-1.32; -0.26)	-0.14 (-1.06; 0.79)
	2030-39	0.98 (0.03; 2.65)	-1.03 (-2.44; -0.17)	-0.05 (-1.71; 1.62)
	2040-49	1.89 (0.09; 4.48)	-1.74 (-3.28; -0.55)	0.14 (-2.56; 3.15)
	2050-59	2.24 (0.13; 5.32)	-2.04 (-3.52; -0.63)	0.2 (-2.9; 3.95)
	2060-69	3.15 (-0.02; 7.05)	-2.48 (-4.31; -0.68)	0.67 (-3.98; 5.64)
	2070-79	4.09 (0; 8.88)	-3 (-4.96; -0.92)	1.08 (-4.67; 7.35)
	2080-89	5.08 (-0.43; 11.1)	-3.31 (-5.53; -0.92)	1.77 (-5.57; 9.28)
	2090-99	5.81 (-0.82; 12.9)	-3.59 (-6.04; -0.96)	2.21 (-6.5; 11.22)
8.5	2010-19	0 (0; 0)	0 (0; 0)	0 (0; 0)
	2020-29	0.66 (0.02; 1.23)	-0.39 (-1.08; 0.09)	0.27 (-0.77; 1.15)
	2030-39	1.77 (0.2; 3.6)	-1.52 (-2.74; -0.46)	0.25 (-2.16; 2.77)
	2040-49	2.85 (0.13; 6.47)	-2.05 (-3.77; -0.62)	0.8 (-3.03; 5.28)
	2050-59	4.35 (0; 9.6)	-2.67 (-4.72; -0.77)	1.68 (-4.3; 8.22)
	2060-69	5.95 (-0.78; 13.37)	-3.42 (-5.83; -0.86)	2.52 (-6.07; 11.71)
	2070-79	7.43 (-2.08; 17.14)	-3.75 (-6.38; -0.91)	3.68 (-8.01; 15.41)
	2080-89	8.35 (-3.93; 20.68)	-3.96 (-6.75; -0.88)	4.39 (-10.2; 19.01)
	2090-99	9.43 (-6.09; 23.66)	-4.17 (-7.19; -0.89)	5.27 (-12.78; 21.86)

Table S13. Regional temperature-attributable fractions of deaths and hospital admissions due to enteric infections in 2090-2099 relative to 2010-2019 by representative concentration pathways and no population change.

Region	RCP	Mortality due to enteric infections % change (95%eCI)			Hospital admissions due to enteric infections % change (95%eCI)		
		High temperature	Low temperature	Overall	High temperature	Low temperature	Overall
CAR	2.6	4.1 (-0.3; 7.4)	-0.1 (-0.5; 0.3)	4 (-0.5; 7.5)	2.1 (0.2; 4.2)	-0.1 (-0.5; 0.2)	2 (0.1; 4.1)
	4.5	11.1 (0.6; 16.9)	-0.1 (-0.6; 0.4)	11 (0.3; 17.1)	6.3 (0.9; 11.6)	-0.2 (-0.6; 0.3)	6.1 (0.9; 11.3)
	6.0	14.9 (1; 22.2)	-0.1 (-0.6; 0.5)	14.8 (0.6; 22.2)	8.5 (1.3; 15.5)	-0.2 (-0.7; 0.3)	8.4 (1.2; 15.2)
	8.5	25.4 (3.2; 34.9)	-0.1 (-0.7; 0.5)	25.3 (3; 34.8)	15.3 (2.6; 26.3)	-0.2 (-0.7; 0.4)	15.1 (2.6; 26)
1	2.6	2 (-1.3; 5)	-0.5 (-1.7; 0.7)	1.5 (-2.7; 5.4)	-0.1 (-0.2; 0)	-2.5 (-4.2; -1)	-2.6 (-4.3; -1)
	4.5	7.1 (-2.8; 15.6)	-0.8 (-2.3; 1)	6.3 (-4.7; 16)	-0.6 (-1.6; 0.3)	-5.7 (-9.9; -1.9)	-6.3 (-11.3; -1.8)
	6.0	10.1 (-3.4; 21.1)	-0.8 (-2.6; 1.1)	9.3 (-5.4; 21.3)	-1 (-2.9; 0.4)	-7.3 (-12.7; -2.3)	-8.2 (-15.5; -2)
	8.5	19.8 (-3.1; 36.5)	-0.9 (-2.8; 1.3)	19 (-5.4; 36.7)	-3.6 (-11.7; 1.7)	-9.7 (-16.6; -2.6)	-13.3 (-27.8; -1.1)
2	2.6	2.1 (-1; 4.8)	-0.4 (-1.4; 0.6)	1.8 (-2; 5)	1.8 (0.7; 3.1)	0.1 (-0.1; 0.3)	1.9 (0.7; 3.2)
	4.5	6.4 (-1.9; 12.3)	-0.6 (-2; 0.9)	5.8 (-3.5; 12.7)	4.2 (1.2; 7.3)	0.1 (0; 0.2)	4.3 (1.2; 7.4)
	6.0	8.8 (-2.4; 16.2)	-0.6 (-2.3; 1)	8.2 (-4.2; 16.6)	5.5 (1.3; 9.6)	0.1 (0; 0.2)	5.6 (1.5; 9.7)
	8.5	16 (-3.3; 27.2)	-0.7 (-2.5; 1.3)	15.3 (-5.2; 27.5)	8.8 (1.5; 15.5)	0.1 (0; 0.2)	8.9 (1.6; 15.6)
3	2.6	0.7 (-0.8; 2.5)	-1.2 (-3.3; 0.7)	-0.5 (-3.7; 3.1)	0 (-0.2; 0.1)	-2.4 (-4.4; -0.8)	-2.5 (-4.4; -0.7)
	4.5	3.5 (-2.4; 9.5)	-2.2 (-5.5; 1.5)	1.3 (-7.2; 10.2)	-0.1 (-0.7; 0.3)	-6 (-9.6; -2.7)	-6.2 (-10; -2.6)
	6.0	5.4 (-3; 14)	-2.3 (-6.3; 1.8)	3.1 (-8.4; 14.8)	-0.2 (-1.2; 0.6)	-7.5 (-12.3; -3)	-7.7 (-13.4; -2.7)
	8.5	12.7 (-4.7; 28.4)	-2.5 (-6.8; 2.1)	10.2 (-10.3; 28.7)	-0.9 (-5.1; 2.2)	-10.3 (-17.4; -3.1)	-11.2 (-22.2; -1.3)
NCR	2.6	2.4 (-3.4; 6.5)	-2.4 (-5.8; -0.2)	-0.1 (-4.6; 5.4)	0.2 (-1.7; 1.8)	-3 (-7.6; 0.5)	-2.8 (-8.1; 2)
	4.5	12.3 (3.8; 22.1)	-5.3 (-10; -0.6)	7 (-4.5; 20.1)	1.6 (-5.4; 7.1)	-7.4 (-14.8; 2.4)	-5.8 (-18.7; 7.4)
	6.0	18.4 (5.4; 30.4)	-5.5 (-11.1; -0.1)	12.9 (-2; 28.2)	2.8 (-9; 11.8)	-8.4 (-17.7; 3.3)	-5.5 (-24.7; 12.2)
	8.5	37.8 (18.6; 55.3)	-6.2 (-11.5; -0.3)	31.6 (9.6; 51.8)	7.9 (-21.3; 28.5)	-9.8 (-21; 4.8)	-1.9 (-39.2; 28.6)
4A	2.6	2.6 (-2.5; 6.6)	-0.1 (-0.5; 0.2)	2.5 (-2.5; 6.8)	0.1 (-0.5; 0.6)	-1.9 (-4.3; 0.3)	-1.9 (-4.3; 0.5)
	4.5	10.4 (3.1; 18.3)	-0.2 (-0.9; 0.5)	10.2 (2.3; 18.3)	0.6 (-1.3; 2.7)	-4.9 (-7.7; -2.1)	-4.3 (-8.6; -0.1)
	6.0	15.5 (5.3; 24.5)	-0.2 (-0.9; 0.5)	15.2 (4.7; 24.5)	1.1 (-2.2; 4.8)	-5.8 (-9.3; -2.2)	-4.6 (-10.9; 1.6)
	8.5	27.9 (13.3; 41.4)	-0.2 (-1; 0.5)	27.7 (12.8; 41.4)	3.4 (-5; 12.5)	-6.4 (-10.5; -2.1)	-3 (-14.8; 9.3)
4B	2.6	2.9 (-2.4; 7.8)	-0.4 (-1.7; 0.9)	2.5 (-3.9; 8.5)	-0.1 (-0.4; 0.1)	-0.7 (-3.1; 1.8)	-0.8 (-3.4; 1.8)
	4.5	10.2 (-5.7; 23.6)	-0.7 (-2.6; 1.5)	9.5 (-7.9; 24.2)	-0.9 (-3.1; 0.5)	-2.4 (-8.7; 3.6)	-3.3 (-11.6; 4)
	6.0	14.6 (-6.6; 30.7)	-0.7 (-2.9; 1.7)	13.9 (-9.2; 31.5)	-1.7 (-6.3; 1.1)	-3.3 (-10.7; 4.6)	-5 (-16.6; 5.4)
	8.5	28.6 (-7.8; 51.8)	-0.7 (-2.6; 1.5)	27.9 (-9.8; 52.3)	-7.1 (-25.9; 4.1)	-4.7 (-13.8; 5.3)	-11.8 (-38.8; 8.9)
5	2.6	2.9 (-0.9; 8.3)	-0.4 (-1.4; 0.6)	2.5 (-1.9; 8.4)	2.6 (0.7; 5.3)	0.1 (0; 0.2)	2.7 (0.7; 5.4)
	4.5	10.4 (-1.1; 22.3)	-0.7 (-2.1; 1)	9.7 (-2.8; 22.3)	7 (2.1; 13.2)	0.1 (0; 0.3)	7.2 (2.3; 13.3)
	6.0	15.5 (-1; 29.1)	-0.8 (-2.4; 1.1)	14.8 (-3.1; 29.1)	9.6 (2.2; 17)	0.1 (0; 0.2)	9.7 (2.3; 17.1)
	8.5	27.6 (1.2; 46.5)	-0.7 (-2.2; 1)	27 (-0.3; 46.5)	14.3 (1.5; 26.8)	0.1 (0; 0.3)	14.4 (1.6; 26.9)
6	2.6	3.8 (-1.2; 8.7)	-0.1 (-0.6; 0.4)	3.7 (-1.5; 8.9)	0.9 (-1.3; 2.7)	0.1 (0; 0.3)	1 (-1.3; 2.9)
	4.5	13.4 (2.4; 25.6)	-0.2 (-1; 0.7)	13.2 (1.7; 25.8)	0.3 (-7.4; 4.9)	0.2 (0; 0.3)	0.5 (-7.3; 5.1)
	6.0	19.8 (4.7; 32.5)	-0.2 (-1; 0.7)	19.6 (4; 32.6)	-0.8 (-11.9; 6.1)	0.2 (0; 0.4)	-0.6 (-11.6; 6.4)
	8.5	36 (14.7; 54.2)	-0.1 (-0.9; 0.6)	35.8 (14.1; 54.2)	-7.4 (-33.3; 7.3)	0.1 (0; 0.3)	-7.3 (-33.2; 7.4)
7	2.6	0.7 (-1.8; 3.5)	-2.4 (-5.4; 0.8)	-1.7 (-6.9; 3.9)	-0.1 (-0.6; 0.3)	-4.6 (-7.5; -2.3)	-4.7 (-7.8; -2.2)

	4.5	3.7 (-6.1; 15.5)	-4.3 (-9.8; 2.1)	-0.6 (-15; 16.2)	-0.6 (-4.2; 2)	-10.1 (-16.6; -5.2)	-10.7 (-20.3; -4.1)
	6.0	6.3 (-9.2; 21.7)	-5.1 (-11.7; 2.6)	1.2 (-20; 22.5)	-1.1 (-7.5; 3.5)	-12.7 (-19.2; -6)	-13.7 (-25.7; -3.2)
	8.5	15.8 (-18.3; 44.5)	-4.7 (-11.8; 2.9)	11.1 (-28.8; 45.5)	-3.5 (-26.5; 12)	-13.6 (-21.9; -4.9)	-17.1 (-47; 5.8)
8	2.6	3.3 (-1.3; 8.3)	-0.5 (-1.8; 0.9)	2.8 (-2.8; 8.4)	1.4 (-1.1; 3.9)	0 (-0.1; 0.1)	1.4 (-1.1; 3.9)
	4.5	11.6 (-2.1; 25.6)	-0.7 (-2.5; 1.4)	10.9 (-4.3; 26)	4.2 (-3.2; 12.5)	0 (-0.1; 0.2)	4.2 (-3.2; 12.5)
	6.0	17.2 (-2.6; 33.1)	-0.8 (-2.9; 1.5)	16.3 (-5; 33.4)	6 (-5.2; 16.6)	0 (-0.1; 0.2)	6 (-5.1; 16.6)
	8.5	31.5 (0.1; 52.9)	-0.7 (-2.5; 1.4)	30.8 (-1.7; 52.9)	10.4 (-11.1; 29.2)	0 (-0.1; 0.2)	10.4 (-11.1; 29.2)
9	2.6	4.3 (-2; 11.3)	-0.3 (-1.6; 1.1)	4 (-3.3; 12)	7.6 (3.9; 13.5)	-0.8 (-1.7; 0)	6.8 (2.7; 12.8)
	4.5	16.4 (-2.8; 35.4)	-0.4 (-2.2; 1.6)	16 (-4.5; 36)	27.7 (14.8; 45.4)	-1.1 (-2.4; 0.1)	26.6 (13.4; 44.5)
	6.0	23.3 (-2.1; 44)	-0.5 (-2.9; 1.9)	22.8 (-4.5; 44.8)	38.5 (22.3; 56.2)	-1.4 (-3.1; 0.1)	37.1 (20.4; 55.2)
	8.5	44.5 (5.7; 69.7)	-0.4 (-2.2; 1.5)	44.1 (4.2; 70.1)	64.7 (46.9; 82.5)	-1.1 (-2.5; 0.1)	63.6 (45.8; 81.6)
10	2.6	1.8 (-2.9; 6.8)	-0.9 (-2.9; 1.4)	0.9 (-5.5; 7.6)	0.4 (-0.6; 1.8)	-3 (-5; -1.3)	-2.5 (-5.4; -0.1)
	4.5	8.5 (-8.2; 26.1)	-1.3 (-4.5; 2.3)	7.3 (-12.1; 27.2)	3.2 (-2.4; 11.7)	-5 (-8.5; -1.6)	-1.8 (-10; 8.9)
	6.0	13.5 (-11.6; 34.3)	-1.5 (-5.2; 2.5)	12 (-16.4; 35.5)	5.7 (-3.7; 17.9)	-5.7 (-9.6; -1.8)	0 (-12.3; 14.7)
	8.5	28.3 (-17.8; 59.8)	-1.2 (-4.5; 2.3)	27.1 (-21.3; 61.1)	15.6 (-6.5; 39.6)	-5.1 (-9; -1.4)	10.5 (-14; 37)
11	2.6	0.5 (-2; 3.4)	-2 (-6.4; 2.4)	-1.5 (-8.1; 5)	1 (-1.4; 3.2)	0.1 (0; 0.2)	1.1 (-1.3; 3.3)
	4.5	3.9 (-9.1; 17.4)	-3.6 (-10.9; 4.9)	0.3 (-19.5; 20.9)	1 (-8.2; 7.9)	0.1 (0; 0.4)	1.1 (-8; 8)
	6.0	6.6 (-13.2; 25.4)	-4.2 (-12.6; 5.5)	2.4 (-24.9; 29.1)	0.4 (-13.3; 10.2)	0.2 (0; 0.5)	0.6 (-13.1; 10.2)
	8.5	18.2 (-28.8; 52.2)	-3.9 (-12.4; 5.7)	14.3 (-39.1; 55.3)	-4.2 (-37.2; 16.8)	0.1 (0; 0.5)	-4 (-37; 16.9)
12	2.6	1.7 (-2.5; 6.1)	-0.5 (-2.9; 2)	1.2 (-5.2; 7.6)	2 (-0.1; 4.7)	0 (-0.4; 0.3)	1.9 (-0.3; 4.8)
	4.5	8 (-6.8; 23.1)	-0.8 (-4.4; 3.1)	7.2 (-10.6; 25.3)	7.7 (1.5; 16)	-0.1 (-0.5; 0.4)	7.7 (1.2; 16)
	6.0	12.2 (-8.4; 31.1)	-0.9 (-5; 3.5)	11.3 (-12.7; 33.5)	11.3 (2.7; 21.5)	-0.1 (-0.7; 0.5)	11.3 (2.3; 21.6)
	8.5	29.1 (-8.1; 58.1)	-0.8 (-4.4; 3.2)	28.4 (-12.1; 59.8)	24.7 (8.2; 44.5)	-0.1 (-0.5; 0.4)	24.6 (8.2; 44.4)
13	2.6	5.1 (-0.7; 11.6)	-0.1 (-0.6; 0.4)	5.1 (-1.1; 11.6)	-0.5 (-4.8; 1.9)	0.2 (0.1; 0.5)	-0.3 (-4.6; 2.1)
	4.5	16.3 (0.5; 29.5)	-0.1 (-0.7; 0.5)	16.2 (0.2; 29.6)	-5.8 (-20.9; 1.9)	0.3 (0.1; 0.7)	-5.5 (-20.6; 2.2)
	6.0	23.7 (2.3; 37)	-0.1 (-0.9; 0.6)	23.6 (1.7; 37.1)	-10.6 (-31.2; 1.5)	0.3 (0.1; 0.6)	-10.3 (-30.8; 1.8)
	8.5	41 (10.5; 58.6)	-0.1 (-0.7; 0.5)	40.9 (10.2; 58.7)	-31 (-88.2; -2.4)	0.3 (0.1; 0.8)	-30.7 (-87.9; -2.2)
BARMM	2.6	1.6 (-3.4; 7)	-1.9 (-6.3; 3.1)	-0.3 (-9.4; 9)	7.5 (4; 13.7)	-0.2 (-0.6; 0.3)	7.3 (3.6; 13.7)
	4.5	8.8 (-11.4; 28.8)	-2.9 (-10; 5.4)	5.9 (-20.5; 32)	26 (14.9; 41.9)	-0.2 (-0.8; 0.4)	25.9 (14.7; 41.7)
	6.0	13.7 (-15.8; 39)	-3.4 (-11.7; 6.1)	10.3 (-26.5; 42.2)	35.4 (21.8; 51.9)	-0.3 (-1.2; 0.5)	35.1 (21.4; 51.7)
	8.5	31.2 (-27.1; 67.1)	-3 (-10.9; 5.9)	28.2 (-37.9; 69.9)	58.9 (41.1; 78.2)	-0.2 (-0.9; 0.4)	58.7 (41.1; 77.9)
Philippines	2.6	2.3 (-1.1; 6.3)	-1 (-2.5; 0.7)	1.4 (-3.1; 6.5)	1.4 (0.2; 2.9)	-1.3 (-2.5; -0.4)	0 (-2.1; 2)
	4.5	9.4 (-1.3; 20.7)	-1.8 (-4.4; 1.2)	7.6 (-5.4; 21)	4.3 (-0.1; 9.6)	-3 (-5; -0.9)	1.3 (-4.7; 8.1)
	6.0	14 (-1.5; 27.6)	-2 (-5.1; 1.4)	12 (-6.1; 27.9)	5.8 (-0.8; 12.9)	-3.6 (-6; -1)	2.2 (-6.5; 11.2)
	8.5	27.6 (1.1; 48.1)	-2 (-5; 1.4)	25.6 (-3.5; 48.2)	9.4 (-6.1; 23.7)	-4.2 (-7.2; -0.9)	5.3 (-12.8; 21.9)

CAR=Cordillera Administrative Region; NCR=National Capital Region; BARMM=Bangsamoro Autonomous Region in Muslim Mindanao; eCI=empirical confidence interval; RCP=representative concentration pathway

Table S14. Regional temperature-attributable numbers of deaths and hospital admissions due to enteric infections in 2090-2099 relative to 2010-2019 by representative concentration pathways and no population change.

Region	RCP	Number of deaths due to enteric infections (95%eCI)			Number of hospital admissions due to enteric infections (95%eCI)		
		High temperature	Low temperature	Overall	High temperature	Low temperature	Overall
CAR	2.6	22 (-1; 40)	0 (-3; 2)	22 (-3; 41)	2893 (322; 5895)	-151 (-655; 262)	2742 (161; 5707)
	4.5	61 (3; 93)	-1 (-3; 2)	60 (1; 93)	8732 (1312; 16123)	-236 (-885; 414)	8496 (1189; 15780)
	6.0	82 (6; 121)	-1 (-4; 3)	81 (3; 122)	11920 (1871; 21563)	-258 (-1010; 451)	11661 (1726; 21201)
	8.5	139 (18; 191)	-1 (-4; 3)	139 (17; 191)	21319 (3682; 36700)	-257 (-1001; 509)	21062 (3623; 36334)
1	2.6	41 (-27; 106)	-10 (-36; 14)	31 (-57; 114)	-203 (-774; 92)	-8837 (-14954; -3413)	-9040 (-15272; -3462)
	4.5	149 (-59; 328)	-16 (-49; 21)	133 (-98; 336)	-1961 (-5759; 920)	-20169 (-34867; -6882)	-22131 (-39987; -6371)
	6.0	212 (-72; 442)	-17 (-54; 23)	196 (-114; 448)	-3380 (-10423; 1585)	-25711 (-44811; -8113)	-29091 (-54686; -7083)
	8.5	416 (-64; 767)	-18 (-59; 27)	398 (-114; 771)	-12761 (-41503; 6026)	-34394 (-58681; -9162)	-47155 (-98192; -3976)
2	2.6	33 (-15; 74)	-6 (-22; 9)	27 (-30; 77)	3795 (1483; 6450)	132 (-121; 563)	3927 (1497; 6717)
	4.5	99 (-30; 191)	-9 (-31; 15)	90 (-55; 197)	8842 (2484; 15336)	192 (23; 499)	9034 (2575; 15496)
	6.0	137 (-38; 251)	-10 (-36; 16)	127 (-65; 257)	11509 (2815; 20242)	224 (36; 488)	11733 (3054; 20453)
	8.5	248 (-51; 421)	-11 (-39; 21)	237 (-81; 427)	18470 (3152; 32570)	192 (22; 478)	18662 (3407; 32713)
3	2.6	24 (-28; 91)	-42 (-119; 26)	-18 (-135; 112)	-61 (-635; 248)	-9877 (-17826; -3058)	-9938 (-17878; -2941)
	4.5	127 (-87; 345)	-78 (-201; 54)	48 (-262; 370)	-556 (-2831; 1302)	-24381 (-38694; -10828)	-24937 (-40393; -10442)
	6.0	196 (-110; 510)	-84 (-228; 66)	111 (-306; 538)	-1004 (-4982; 2391)	-30274 (-49864; -12121)	-31278 (-54104; -10908)
	8.5	463 (-173; 1033)	-93 (-249; 75)	370 (-374; 1043)	-3768 (-20742; 9063)	-41585 (-70294; -12583)	-45353 (-89614; -5379)
NCR	2.6	122 (-176; 337)	-126 (-298; -8)	-3 (-237; 280)	533 (-4527; 4739)	-7841 (-19952; 1193)	-7308 (-21337; 5143)
	4.5	637 (195; 1142)	-273 (-514; -31)	364 (-230; 1040)	4243 (-14160; 18736)	-19412 (-38771; 6332)	-15169 (-49072; 19521)
	6.0	950 (279; 1571)	-285 (-573; -8)	665 (-104; 1455)	7392 (-23698; 30899)	-21898 (-46433; 8727)	-14505 (-64658; 32068)
	8.5	1950 (959; 2855)	-318 (-594; -15)	1631 (497; 2672)	20762 (-55968; 74638)	-25697 (-54990; 12611)	-4935 (-102921; 74955)
4A	2.6	134 (-130; 348)	-5 (-27; 12)	130 (-130; 356)	289 (-2676; 2811)	-9811 (-21529; 1490)	-9522 (-21942; 2464)
	4.5	544 (162; 956)	-12 (-49; 27)	532 (122; 956)	2953 (-6370; 13567)	-24677 (-38757; -10755)	-21724 (-43390; -330)
	6.0	808 (277; 1282)	-11 (-49; 26)	797 (247; 1283)	5770 (-11106; 24053)	-29026 (-46908; -11077)	-23257 (-55162; 8266)
	8.5	1459 (697; 2167)	-11 (-50; 27)	1448 (670; 2163)	17240 (-25287; 63087)	-32351 (-53238; -10588)	-15110 (-74626; 46835)
4B	2.6	37 (-30; 98)	-5 (-21; 12)	32 (-49; 106)	-93 (-514; 89)	-789 (-3649; 2094)	-881 (-3919; 2121)

	4.5	128 (-72; 296)	-9 (-33; 19)	119 (-99; 304)	-1022 (-3592; 601)	-2807 (-10052; 4228)	-3829 (-13415; 4614)
	6.0	183 (-82; 385)	-9 (-37; 21)	174 (-115; 396)	-2018 (-7289; 1271)	-3819 (-12419; 5297)	-5837 (-19226; 6211)
	8.5	359 (-98; 651)	-8 (-33; 19)	351 (-124; 656)	-8209 (-29965; 4698)	-5455 (-16008; 6168)	-13664 (-44971; 10276)
5	2.6	92 (-29; 266)	-12 (-45; 18)	80 (-62; 271)	5635 (1475; 11248)	158 (-26; 516)	5793 (1540; 11490)
	4.5	334 (-35; 714)	-22 (-68; 30)	312 (-91; 716)	15023 (4474; 28144)	233 (17; 596)	15257 (4874; 28370)
	6.0	498 (-33; 933)	-24 (-78; 34)	473 (-98; 934)	20438 (4656; 36332)	253 (20; 530)	20691 (5008; 36562)
	8.5	886 (37; 1492)	-21 (-69; 32)	865 (-9; 1490)	30460 (3191; 57203)	210 (12; 654)	30670 (3449; 57360)
6	2.6	195 (-62; 441)	-5 (-29; 19)	190 (-78; 454)	2813 (-4201; 8523)	266 (-121; 924)	3079 (-4074; 9130)
	4.5	678 (123; 1301)	-9 (-50; 35)	669 (86; 1308)	1099 (-23422; 15538)	533 (118; 995)	1632 (-22953; 16207)
	6.0	1006 (237; 1651)	-9 (-53; 35)	997 (204; 1657)	-2509 (-37454; 19391)	575 (126; 1223)	-1934 (-36659; 20113)
	8.5	1825 (746; 2753)	-7 (-44; 30)	1818 (714; 2750)	-23512 (-105370; 23023)	395 (70; 1066)	-23118 (-104976; 23409)
7	2.6	37 (-93; 181)	-127 (-281; 42)	-90 (-359; 202)	-292 (-2152; 1018)	-15498 (-25037; -7610)	-15790 (-26181; -7416)
	4.5	194 (-321; 812)	-226 (-514; 109)	-31 (-786; 849)	-1898 (-13963; 6651)	-33972 (-55669; -17416)	-35870 (-68230; -13604)
	6.0	327 (-481; 1136)	-265 (-611; 134)	62 (-1048; 1174)	-3538 (-25023; 11873)	-42527 (-64399; -19984)	-46065 (-86176; -10620)
	8.5	826 (-958; 2327)	-248 (-616; 150)	579 (-1507; 2380)	-11760 (-88960; 40315)	-45645 (-73424; -16550)	-57405 (-157991; 19385)
8	2.6	80 (-31; 204)	-12 (-44; 21)	68 (-68; 207)	3901 (-2964; 10875)	39 (-259; 408)	3940 (-3018; 10935)
	4.5	286 (-53; 631)	-17 (-62; 33)	268 (-105; 642)	11614 (-8859; 34760)	52 (-310; 484)	11666 (-8819; 34661)
	6.0	423 (-64; 815)	-20 (-72; 38)	403 (-124; 823)	16550 (-14480; 46146)	59 (-328; 484)	16609 (-14286; 46226)
	8.5	776 (2; 1304)	-17 (-63; 33)	759 (-43; 1304)	28791 (-30828; 81082)	49 (-362; 546)	28840 (-30741; 81086)
9	2.6	95 (-44; 250)	-6 (-35; 24)	89 (-74; 265)	17769 (9098; 31284)	-1962 (-3970; 77)	15806 (6346; 29834)
	4.5	363 (-62; 785)	-9 (-49; 34)	354 (-101; 798)	64366 (34504; 105494)	-2522 (-5511; 283)	61845 (31101; 103486)
	6.0	517 (-48; 977)	-11 (-64; 42)	506 (-99; 993)	89473 (51905; 130692)	-3215 (-7237; 244)	86258 (47360; 128347)
	8.5	987 (125; 1546)	-8 (-50; 34)	979 (94; 1554)	150276 (108875; 191634)	-2466 (-5701; 340)	147810 (106309; 189514)
10	2.6	47 (-74; 176)	-23 (-76; 36)	24 (-141; 196)	1848 (-2719; 7548)	-12727 (-21515; -5676)	-10879 (-23189; -403)
	4.5	220 (-213; 674)	-33 (-117; 59)	187 (-313; 704)	13657 (-10403; 49907)	-21229 (-36336; -6947)	-7572 (-42906; 38097)
	6.0	348 (-299; 887)	-38 (-135; 66)	310 (-423; 918)	24489 (-15831; 76492)	-24555 (-41114; -7837)	-66 (-52501; 62795)

	8.5	730 (-459; 1545)	-31 (-116; 59)	699 (-551; 1579)	66748 (-27683; 169403)	-21966 (-38476; -5951)	44782 (-59989; 158025)
11	2.6	11 (-42; 69)	-42 (-131; 50)	-31 (-168; 103)	3659 (-5080; 11915)	326 (-50; 823)	3985 (-4949; 12197)
	4.5	80 (-188; 359)	-74 (-225; 102)	7 (-403; 432)	3554 (-30799; 29361)	502 (-57; 1644)	4056 (-30012; 29873)
	6.0	136 (-273; 524)	-87 (-260; 115)	49 (-513; 601)	1468 (-49499; 38002)	700 (-95; 1971)	2168 (-48969; 38280)
	8.5	375 (-594; 1079)	-80 (-255; 117)	295 (-807; 1141)	-15655 (-138999; 62769)	538 (-66; 1839)	-15116 (-138277; 63109)
12	2.6	31 (-46; 111)	-10 (-52; 36)	21 (-94; 138)	8753 (-360; 21092)	-214 (-1736; 1266)	8538 (-1350; 21606)
	4.5	145 (-122; 418)	-14 (-80; 56)	131 (-192; 458)	34450 (6792; 71207)	-245 (-2282; 1666)	34206 (5551; 71374)
	6.0	220 (-152; 563)	-16 (-91; 64)	204 (-231; 606)	50486 (12067; 95927)	-343 (-3048; 2172)	50144 (10439; 96196)
	8.5	528 (-146; 1053)	-14 (-80; 58)	514 (-220; 1084)	110027 (36483; 198202)	-262 (-2365; 1711)	109765 (36731; 197837)
13	2.6	66 (-9; 150)	-1 (-7; 5)	65 (-14; 151)	-833 (-7944; 3174)	388 (99; 798)	-445 (-7722; 3556)
	4.5	211 (7; 382)	-1 (-9; 7)	210 (2; 383)	-9626 (-34696; 3196)	507 (114; 1112)	-9120 (-34267; 3617)
	6.0	307 (30; 479)	-2 (-11; 8)	306 (22; 480)	-17696 (-51927; 2484)	559 (202; 984)	-17138 (-51330; 3024)
	8.5	531 (136; 758)	-1 (-9; 7)	529 (132; 759)	-51578 (-146787; -3996)	464 (95; 1391)	-51114 (-146201; -3657)
BARMM	2.6	8 (-17; 35)	-10 (-32; 16)	-2 (-48; 45)	17287 (9280; 31559)	-384 (-1450; 678)	16902 (8399; 31491)
	4.5	44 (-58; 145)	-15 (-50; 27)	30 (-103; 162)	59961 (34283; 96510)	-433 (-1884; 877)	59528 (33745; 95889)
	6.0	69 (-80; 197)	-17 (-59; 31)	52 (-134; 213)	81465 (50205; 119390)	-628 (-2770; 1131)	80837 (49187; 118935)
	8.5	158 (-137; 339)	-15 (-55; 30)	142 (-191; 353)	135554 (94573; 179975)	-453 (-2078; 852)	135101 (94508; 179318)
Philippines	2.6	1077 (-483; 2892)	-441 (-1154; 299)	636 (-1424; 2986)	67692 (10005; 145569)	-66781 (-124268; -20989)	910 (-103758; 99762)
	4.5	4299 (-587; 9528)	-817 (-2040; 537)	3483 (-2502; 9637)	213431 (-3283; 482692)	-148063 (-251042; -44041)	65368 (-236416; 407278)
	6.0	6419 (-677; 12686)	-905 (-2320; 633)	5514 (-2800; 12812)	290814 (-41193; 645911)	-179884 (-302658; -48229)	110930 (-325664; 561927)
	8.5	12657 (498; 22102)	-903 (-2282; 639)	11754 (-1620; 22163)	472406 (-304838; 1184763)	-208684 (-360041; -44569)	263723 (-640202; 1094790)

CAR=Cordillera Administrative Region; NCR=National Capital Region; BARMM=Bangsamoro Autonomous Region in Muslim Mindanao; eCI=empirical confidence interval; RCP=representative concentration pathway

Table S15. Regional temperature-attributable numbers of deaths due to enteric infections in 2090-2099 relative to 2010-2019 by representative concentration pathways and shared socioeconomic pathways

Region	RCP	Number of deaths due to enteric infections (95%eCI)				
		SSP 1	SSP 2	SSP 3	SSP 4	SSP 5
CAR	2.6	70 (-4; 130)	79 (-7; 145)	NA	163 (-37; 298)	NA
	4.5	184 (9; 286)	195 (7; 304)	305 (-13; 491)	305 (-13; 491)	184 (9; 286)
	6.0	245 (17; 372)	258 (15; 390)	380 (-1; 592)	380 (-1; 592)	245 (17; 372)
	8.5	NA	NA	NA	NA	416 (52; 576)
1	2.6	71 (-73; 211)	149 (-104; 378)	NA	230 (-136; 551)	NA
	4.5	253 (-120; 592)	388 (-167; 872)	586 (-236; 1286)	532 (-219; 1175)	234 (-114; 552)
	6.0	361 (-144; 785)	529 (-197; 1128)	775 (-269; 1623)	709 (-250; 1492)	338 (-136; 739)
	8.5	NA	NA	NA	NA	657 (-122; 1256)
2	2.6	55 (-71; 162)	108 (-123; 290)	NA	227 (-238; 577)	NA
	4.5	164 (-122; 384)	239 (-183; 557)	448 (-351; 1039)	405 (-315; 941)	155 (-116; 364)
	6.0	229 (-145; 497)	316 (-212; 687)	560 (-391; 1224)	510 (-357; 1111)	218 (-137; 476)
	8.5	NA	NA	NA	NA	416 (-175; 803)
3	2.6	23 (-136; 205)	69 (-113; 263)	NA	152 (-81; 392)	NA
	4.5	153 (-304; 614)	236 (-319; 790)	409 (-374; 1177)	385 (-365; 1122)	146 (-303; 596)
	6.0	254 (-349; 867)	365 (-388; 1117)	591 (-476; 1632)	560 (-462; 1563)	245 (-345; 846)
	8.5	NA	NA	NA	NA	617 (-443; 1594)
NCR	2.6	397 (14; 880)	541 (93; 1063)	NA	1271 (503; 2040)	NA
	4.5	1153 (37; 2348)	1388 (152; 2698)	1572 (240; 2975)	2576 (706; 4467)	1116 (12; 2296)
	6.0	1720 (277; 3149)	2016 (416; 3604)	2242 (526; 3942)	3500 (1085; 5781)	1676 (253; 3085)
	8.5	NA	NA	NA	NA	3499 (1358; 5375)
4A	2.6	370 (-129; 875)	550 (-125; 1241)	NA	1036 (-149; 2218)	NA
	4.5	1055 (228; 1873)	1370 (257; 2423)	1921 (329; 3374)	2208 (362; 3888)	963 (209; 1714)
	6.0	1488 (439; 2398)	1878 (515; 3063)	2557 (669; 4174)	2912 (736; 4770)	1374 (408; 2223)
	8.5	NA	NA	NA	NA	2415 (1060; 3588)
4B	2.6	49 (-107; 197)	64 (-130; 243)	NA	89 (-168; 317)	NA
	4.5	214 (-219; 593)	247 (-251; 675)	420 (-431; 1131)	299 (-304; 808)	213 (-218; 589)
	6.0	321 (-270; 774)	362 (-304; 869)	596 (-505; 1426)	431 (-362; 1034)	319 (-268; 770)
	8.5	NA	NA	NA	NA	679 (-285; 1319)
5	2.6	109 (-146; 421)	189 (-234; 651)	NA	337 (-400; 1072)	NA
	4.5	428 (-250; 1094)	591 (-360; 1497)	983 (-618; 2459)	887 (-556; 2219)	416 (-242; 1066)
	6.0	665 (-288; 1449)	884 (-406; 1933)	1413 (-680; 3100)	1284 (-617; 2814)	650 (-280; 1413)
	8.5	NA	NA	NA	NA	1261 (-159; 2328)
6	2.6	313 (-129; 755)	521 (-195; 1229)	NA	907 (-375; 2122)	NA
	4.5	1005 (85; 1984)	1409 (67; 2775)	2353 (24; 4662)	2158 (35; 4274)	967 (85; 1913)
	6.0	1479 (241; 2498)	2005 (274; 3420)	3236 (360; 5596)	2982 (341; 5152)	1432 (243; 2418)
	8.5	NA	NA	NA	NA	2620 (972; 4001)
7	2.6	-64 (-428; 307)	0 (-383; 366)	NA	153 (-287; 549)	NA

	4.5	39 (-1090; 1336)	128 (-1192; 1628)	328 (-1401; 2298)	343 (-1418; 2341)	35 (-1086; 1322)
	6.0	189 (-1468; 1839)	317 (-1621; 2231)	606 (-1999; 3154)	627 (-2025; 3225)	182 (-1464; 1822)
	8.5	NA	NA	NA	NA	975 (-2209; 3689)
8	2.6	127 (-139; 380)	217 (-209; 594)	NA	370 (-341; 966)	NA
	4.5	464 (-226; 1140)	645 (-318; 1554)	1103 (-561; 2613)	954 (-483; 2268)	464 (-226; 1139)
	6.0	698 (-263; 1462)	940 (-366; 1965)	1558 (-615; 3254)	1358 (-534; 2835)	697 (-263; 1460)
	8.5	NA	NA	NA	NA	1324 (-125; 2323)
9	2.6	179 (-148; 517)	244 (-205; 678)	NA	400 (-333; 1055)	NA
	4.5	680 (-194; 1521)	845 (-253; 1884)	1363 (-440; 3038)	1234 (-394; 2752)	641 (-181; 1437)
	6.0	967 (-190; 1891)	1191 (-244; 2334)	1885 (-419; 3703)	1712 (-376; 3357)	916 (-179; 1787)
	8.5	NA	NA	NA	NA	1761 (166; 2800)
10	2.6	55 (-239; 359)	92 (-288; 472)	NA	167 (-387; 701)	NA
	4.5	348 (-548; 1264)	453 (-666; 1593)	703 (-947; 2359)	661 (-901; 2230)	338 (-539; 1235)
	6.0	565 (-741; 1649)	722 (-901; 2068)	1095 (-1262; 3045)	1033 (-1198; 2883)	552 (-728; 1608)
	8.5	NA	NA	NA	NA	1229 (-962; 2755)
11	2.6	-46 (-288; 184)	-23 (-271; 198)	NA	21 (-250; 247)	NA
	4.5	25 (-732; 812)	66 (-801; 971)	156 (-967; 1322)	144 (-946; 1276)	20 (-719; 788)
	6.0	107 (-940; 1131)	166 (-1058; 1350)	304 (-1318; 1866)	284 (-1280; 1794)	98 (-926; 1097)
	8.5	NA	NA	NA	NA	550 (-1463; 2086)
12	2.6	59 (-160; 289)	85 (-186; 357)	NA	135 (-234; 498)	NA
	4.5	290 (-324; 921)	363 (-384; 1123)	549 (-538; 1638)	507 (-504; 1523)	281 (-318; 896)
	6.0	439 (-396; 1215)	543 (-462; 1477)	811 (-640; 2151)	753 (-603; 2003)	427 (-387; 1183)
	8.5	NA	NA	NA	NA	1011 (-348; 2093)
13	2.6	159 (-38; 363)	233 (-88; 511)	NA	398 (-207; 865)	NA
	4.5	492 (-1; 907)	620 (-42; 1151)	927 (-136; 1738)	908 (-133; 1703)	474 (2; 876)
	6.0	713 (43; 1123)	872 (15; 1397)	1265 (-41; 2079)	1243 (-39; 2039)	690 (47; 1085)
	8.5	NA	NA	NA	NA	1195 (296; 1718)
BARMM	2.6	3 (-132; 144)	7 (-132; 151)	NA	18 (-134; 176)	NA
	4.5	106 (-283; 498)	114 (-294; 520)	148 (-334; 619)	148 (-334; 619)	106 (-283; 498)
	6.0	172 (-373; 654)	184 (-382; 681)	234 (-432; 814)	234 (-432; 814)	172 (-373; 654)
	8.5	NA	NA	NA	NA	441 (-533; 1076)
Philippines	2.6	1929 (-1991; 6161)	3125 (-2274; 8581)	NA	6076 (-2555; 14207)	NA
	4.5	7054 (-3902; 18027)	9296 (-4552; 22860)	14276 (-6538; 33957)	14654 (-5556; 33770)	6752 (-3858; 17437)
	6.0	10611 (-4396; 23659)	13548 (-5056; 29601)	20108 (-7138; 43085)	20514 (-6156; 43051)	10234 (-4361; 22941)
	8.5	NA	NA	NA	NA	21068 (-2481; 39163)

CAR=Cordillera Administrative Region; NCR=National Capital Region; BARMM=Bangsamoro Autonomous Region in Muslim Mindanao; eCI=empirical confidence interval; RCP=representative concentration pathway; SSP=shared socioeconomic pathway; NA=unlikely SSP–RCP combination

Table S16. Regional temperature-attributable numbers of hospital admissions due to enteric infections in 2090-2099 relative to 2010-2019 by representative concentration pathways and shared socioeconomic pathways

Region	RCP	Number of hospital admissions due to enteric infections (95%eCI)				
		SSP 1	SSP 2	SSP 3	SSP 4	SSP 5
CAR	2.6	4128 (33; 8213)	9766 (-437; 18830)	NA	18562 (-966; 35732)	NA
	4.5	10526 (1283; 19452)	18804 (1638; 34477)	35998 (2479; 66108)	31725 (2334; 58281)	9850 (1233; 18219)
	6.0	14017 (1912; 25405)	23656 (2730; 42680)	43692 (3916; 78574)	38716 (3615; 69594)	13229 (1877; 23969)
	8.5	NA	NA	NA	NA	23350 (3948; 40253)
1	2.6	-8551 (-14445; -3350)	6967 (-3444; 18500)	NA	26446 (-39; 52590)	NA
	4.5	-21693 (-39232; -6261)	-12302 (-26948; -1598)	5649 (-6079; 33581)	-561 (-12390; 21051)	-22352 (-40208; -6425)
	6.0	-28646 (-54112; -6971)	-22197 (-48112; -5141)	-9925 (-39040; 14187)	-14186 (-42162; 4686)	-29101 (-54652; -7079)
	8.5	NA	NA	NA	NA	-46723 (-96831; -4007)
2	2.6	7868 (4030; 11430)	39933 (21467; 54804)	NA	84614 (45188; 116284)	NA
	4.5	13280 (5634; 20417)	48001 (25334; 65738)	124467 (66502; 170017)	96402 (51549; 131692)	10761 (3886; 17405)
	6.0	16101 (6161; 25485)	52072 (26773; 72082)	131314 (69893; 178592)	102237 (54825; 139297)	13493 (4315; 22479)
	8.5	NA	NA	NA	NA	20635 (4908; 35079)
3	2.6	-1323 (-10422; 10466)	18314 (-6863; 44203)	NA	54488 (-4620; 109601)	NA
	4.5	-19034 (-31571; -7699)	-6001 (-18534; 15389)	22569 (-17681; 73426)	17962 (-17359; 63850)	-20236 (-33244; -8547)
	6.0	-26353 (-46665; -9538)	-15769 (-33526; 6737)	7397 (-19360; 58686)	3653 (-19886; 50235)	-27328 (-48153; -9988)
	8.5	NA	NA	NA	NA	-43729 (-89066; -4851)
NCR	2.6	6317 (-4765; 27966)	10375 (-4032; 36168)	NA	34922 (-12815; 87745)	NA
	4.5	-5276 (-47347; 28027)	-2374 (-46590; 31130)	1443 (-47528; 34827)	15279 (-46302; 51082)	-6052 (-47368; 27216)
	6.0	-4092 (-69246; 48665)	-1039 (-71702; 53867)	2978 (-75547; 60370)	17551 (-86924; 85780)	-4913 (-68707; 47464)
	8.5	NA	NA	NA	NA	8925 (-133270; 114886)
4A	2.6	56 (-10934; 20219)	8037 (-3783; 35032)	NA	31197 (4006; 78383)	NA
	4.5	-15833 (-39500; 4962)	-11058 (-36953; 9706)	-2051 (-32095; 18408)	2804 (-29527; 23164)	-16493 (-39822; 4409)
	6.0	-17540 (-53604; 16453)	-12919 (-53418; 24143)	-4200 (-52898; 39858)	505 (-52810; 47638)	-18181 (-53663; 15383)
	8.5	NA	NA	NA	NA	-8557 (-79580; 65341)
4B	2.6	-1889 (-6320; 2908)	827 (-953; 3512)	NA	2972 (-2220; 8742)	NA
	4.5	-4277 (-13990; 5071)	-3109 (-12654; 3928)	-1041 (-10649; 4703)	-2194 (-11856; 3214)	-4340 (-14051; 5129)
	6.0	-5919 (-18699; 6394)	-5750 (-20180; 5979)	-5475 (-23049; 5657)	-5631 (-21401; 5782)	-5927 (-18655; 6368)
	8.5	NA	NA	NA	NA	-12078 (-39095; 9560)
5	2.6	10227 (3998; 17054)	36491 (17077; 53793)	NA	75062 (35172; 109331)	NA
	4.5	20421 (7733; 34707)	51156 (23593; 75889)	117197 (55483; 168387)	96316 (45370; 139069)	17995 (6507; 31742)
	6.0	26233 (8807; 43423)	59300 (26756; 87229)	130363 (62125; 185350)	107897 (50537; 154038)	23622 (7006; 40067)
	8.5	NA	NA	NA	NA	34027 (5467; 61621)
6	2.6	10274 (-1963; 20486)	32293 (2584; 57192)	NA	69560 (8321; 121037)	NA
	4.5	8523 (-20635; 27975)	29616 (-18816; 65882)	74257 (-20299; 148985)	65332 (-19952; 132316)	6701 (-21268; 24767)
	6.0	4433 (-37220; 31795)	23723 (-40374; 68548)	64528 (-50751; 151488)	56364 (-48727; 134974)	2767 (-36910; 28642)
	8.5	NA	NA	NA	NA	-20336 (-110426; 31385)
7	2.6	-7743 (-16158; 4991)	4080 (-8059; 25262)	NA	29431 (-997; 69610)	NA

	4.5	-32434 (-67523; -12155)	-27703 (-67311; -9266)	-18221 (-67383; 10721)	-17587 (-67210; 12313)	-32938 (-67700; -12452)
	6.0	-44477 (-88770; -7444)	-42709 (-94534; -3041)	-39223 (-106433; 6964)	-38975 (-107254; 7603)	-44668 (-88004; -7969)
	8.5	NA	NA	NA	NA	-58911 (-174532; 26718)
8	2.6	5956 (-4762; 15400)	15631 (-16914; 42139)	NA	30368 (-35477; 85649)	NA
	4.5	14455 (-10796; 40112)	27983 (-22155; 71683)	58531 (-49241; 148530)	48614 (-38993; 123590)	13414 (-9940; 37969)
	6.0	19879 (-15398; 52817)	35783 (-27275; 88672)	71688 (-55556; 173323)	60032 (-46643; 145459)	18655 (-14820; 50326)
	8.5	NA	NA	NA	NA	31658 (-31845; 87357)
9	2.6	17583 (7430; 32218)	34532 (18646; 56681)	NA	57726 (33658; 90321)	NA
	4.5	66004 (33805; 109773)	106350 (57853; 171978)	196144 (110866; 310754)	161688 (90548; 257487)	63060 (32034; 105218)
	6.0	91670 (50831; 135725)	144644 (84026; 211110)	262531 (157251; 379148)	217299 (129184; 314649)	87802 (48435; 130318)
	8.5	NA	NA	NA	NA	150116 (108070; 192394)
10	2.6	-9522 (-22012; 579)	-3013 (-17514; 5862)	NA	6383 (-11101; 16290)	NA
	4.5	-6104 (-43078; 41991)	2170 (-46311; 67137)	19850 (-54721; 120844)	14178 (-51929; 103158)	-6739 (-42769; 40009)
	6.0	2108 (-53476; 68383)	14754 (-60487; 105213)	41781 (-74153; 185803)	33111 (-69772; 160023)	1138 (-52769; 65444)
	8.5	NA	NA	NA	NA	47254 (-60512; 163583)
11	2.6	6701 (-5066; 17086)	26209 (-8749; 55618)	NA	54098 (-15023; 112181)	NA
	4.5	6827 (-30257; 34419)	26290 (-36944; 75033)	67476 (-54522; 165594)	54095 (-48733; 136128)	5346 (-30082; 31579)
	6.0	4753 (-49372; 42976)	22990 (-61496; 84549)	61590 (-94059; 179123)	49052 (-83482; 148417)	3365 (-48985; 40421)
	8.5	NA	NA	NA	NA	-14255 (-140012; 65866)
12	2.6	9548 (-1801; 23714)	18648 (-6186; 44363)	NA	31224 (-12748; 74136)	NA
	4.5	36532 (5397; 76011)	58464 (4991; 120152)	106832 (3407; 220911)	88871 (3761; 183753)	34913 (5545; 72878)
	6.0	53338 (10957; 101800)	83603 (14683; 159008)	150309 (22755; 287958)	125532 (20008; 239468)	51100 (10690; 97721)
	8.5	NA	NA	NA	NA	111517 (37432; 200874)
13	2.6	726 (-7302; 5477)	12730 (-5109; 26758)	NA	28953 (-4089; 55667)	NA
	4.5	-8304 (-34763; 5456)	-651 (-42995; 25053)	15853 (-62894; 69304)	9638 (-55422; 52684)	-8849 (-34354; 4110)
	6.0	-16718 (-52692; 4664)	-13123 (-70361; 22739)	-5395 (-107598; 62834)	-8319 (-93363; 47923)	-16974 (-51472; 3506)
	8.5	NA	NA	NA	NA	-51247 (-147098; -3340)
BARMM	2.6	18586 (9254; 33942)	36721 (18712; 62048)	NA	61363 (31535; 99994)	NA
	4.5	63089 (36031; 101188)	101868 (58978; 158739)	184841 (107492; 283703)	154694 (89773; 238407)	60297 (34345; 96927)
	6.0	85338 (52178; 124853)	134515 (83795; 193119)	239693 (150009; 340872)	201471 (125837; 287327)	81796 (49916; 119992)
	8.5	NA	NA	NA	NA	136444 (95461; 180959)
Philippines	2.6	68940 (-36333; 152541)	308541 (112962; 459318)	NA	697369 (367375; 948028)	NA
	4.5	126701 (-203065; 483550)	407503 (-62144; 893935)	1009793 (218132; 1792539)	837257 (155319; 1515521)	104338 (-212363; 453653)
	6.0	174123 (-302558; 658821)	481532 (-182823; 1136222)	1143645 (65151; 2163040)	946308 (-27261; 1854891)	149875 (-309858; 621187)
	8.5	NA	NA	NA	NA	308091 (-690514; 1202483)

CAR=Cordillera Administrative Region; NCR=National Capital Region; BARMM=Bangsamoro Autonomous Region in Muslim Mindanao; eCI=empirical confidence interval; RCP=representative concentration pathway; SSP=shared socioeconomic pathway; NA=unlikely SSP–RCP combination

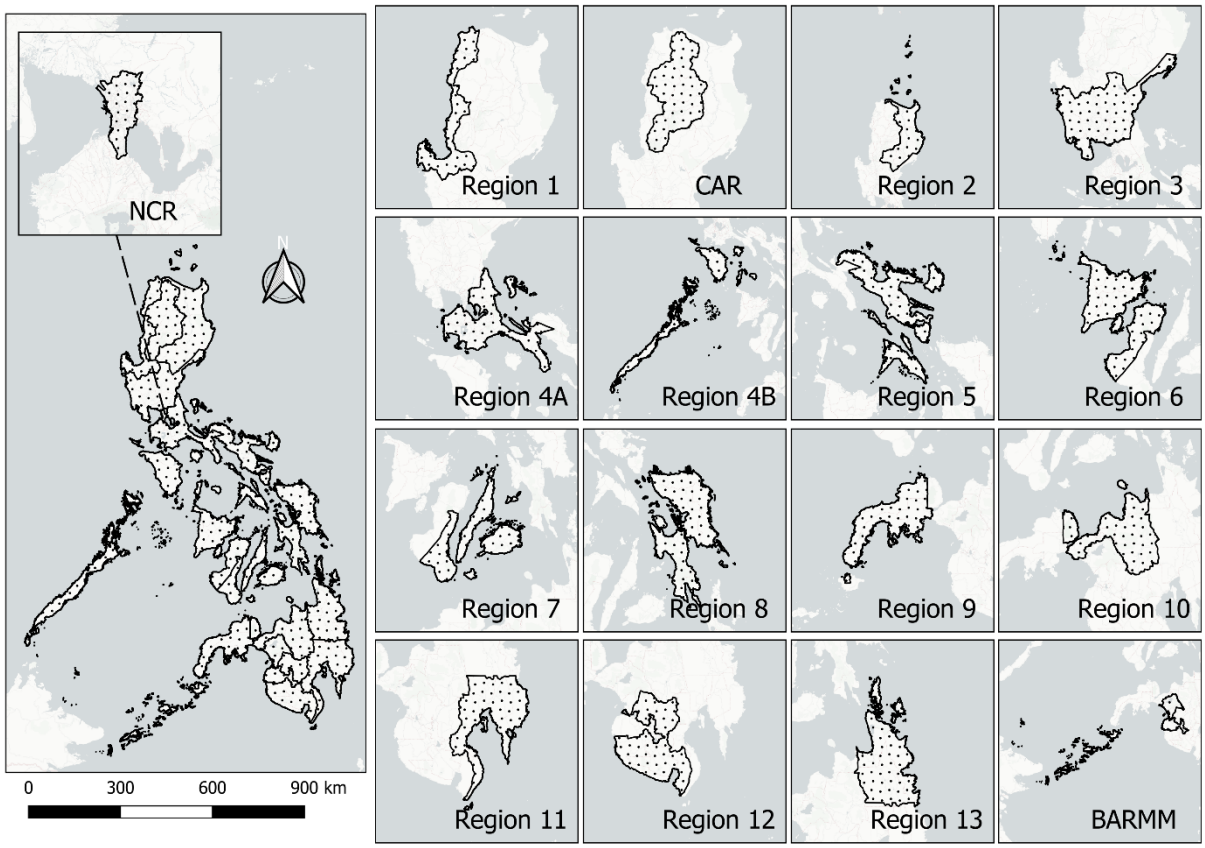

Figure S1. Philippine administrative regions.
NCR=National Capital Region; CAR=Cordillera Autonomous Region; BARMM=Bangsamoro Autonomous Region of Muslim Mindanao
Note: Table S1 lists the full names of the regions.

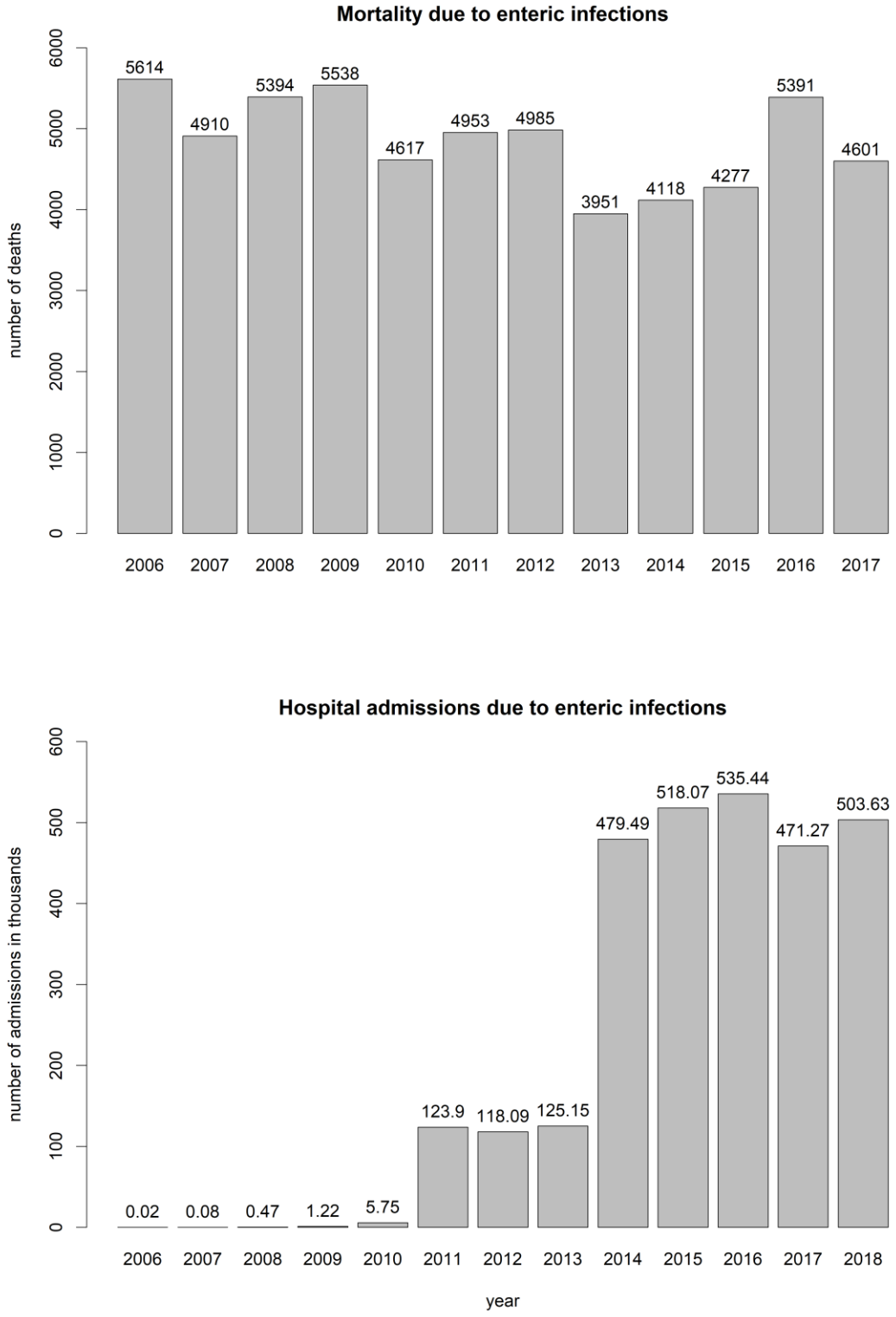

Figure S2. Annual deaths and hospital admissions due to enteric infections in the Philippines in 2006–2018

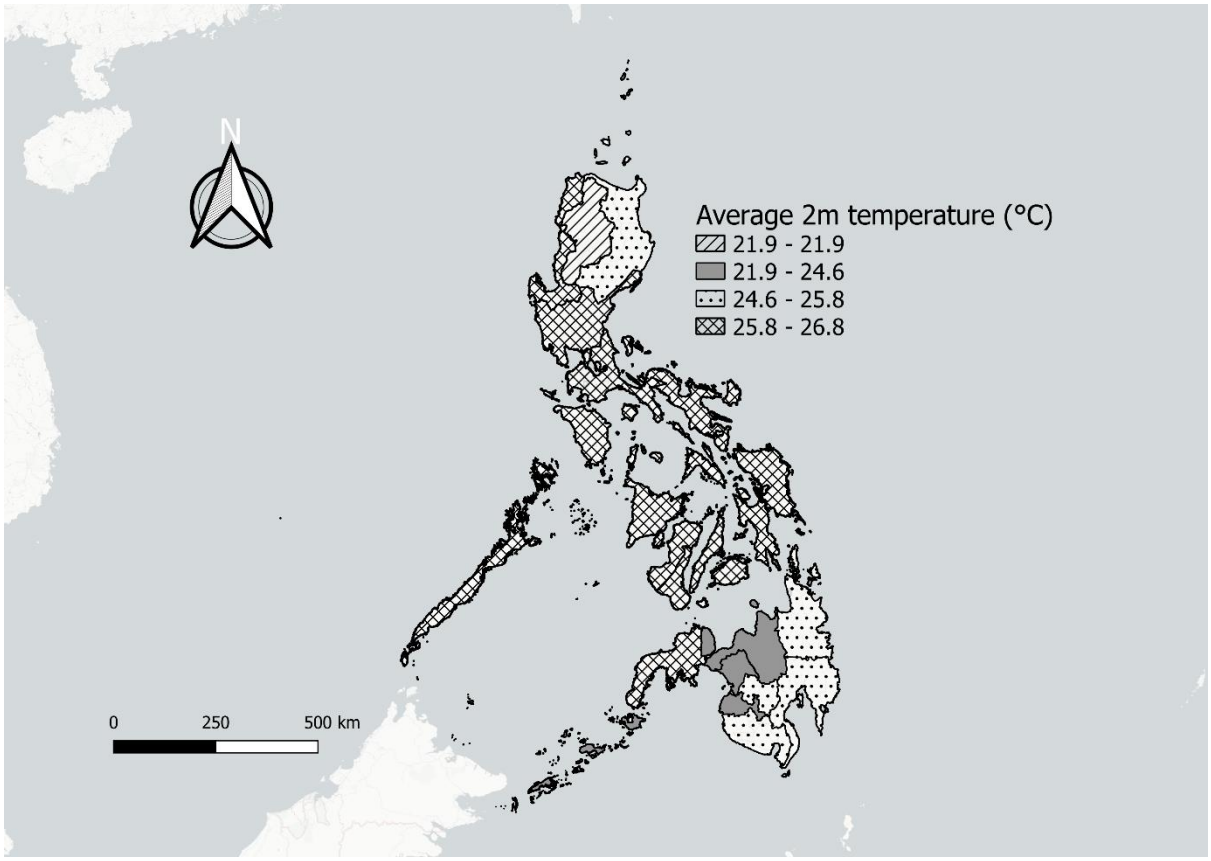

Figure S3. Average 2-meter temperatures per administrative region
Note: See Figure S1 to see exact boundaries of each region

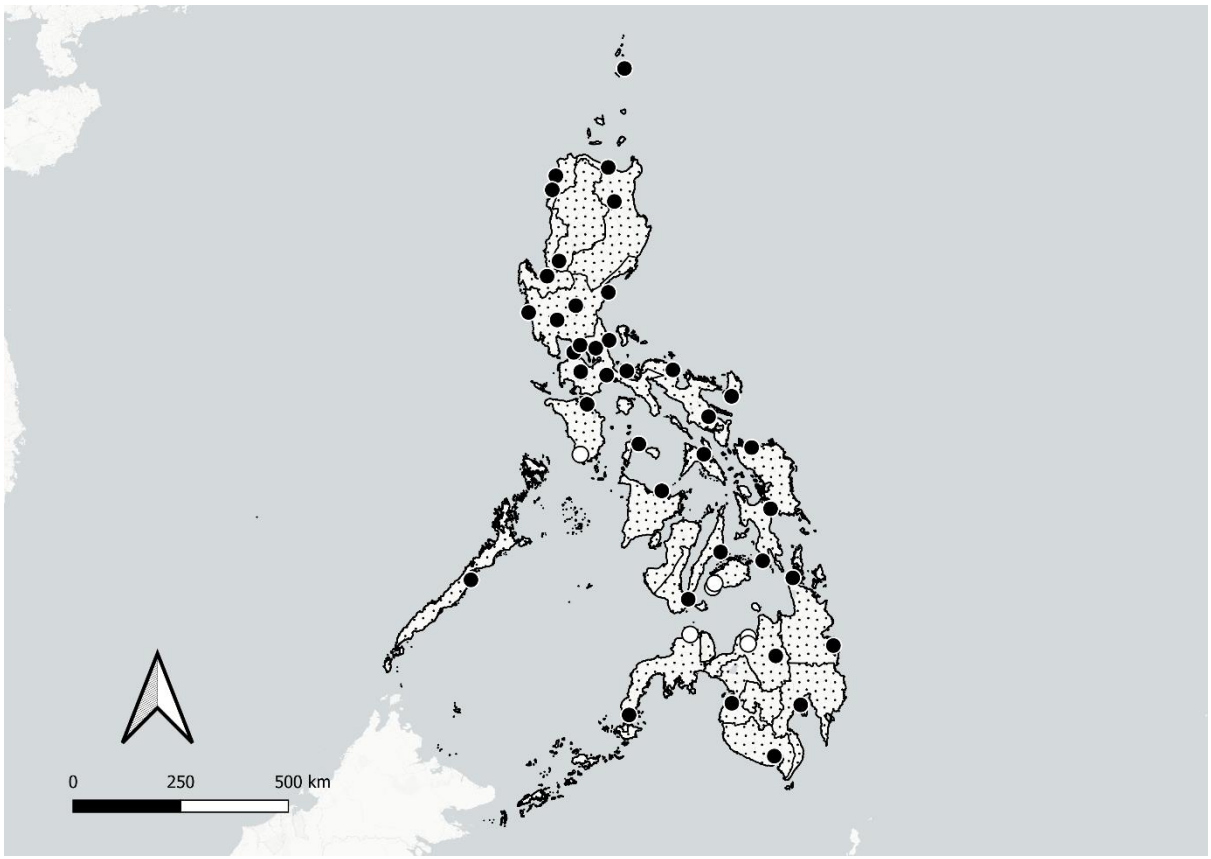

Figure S4. Weather stations in the Philippines. Black dots have imputable mean temperature data and white dots have more than 10% missing data.

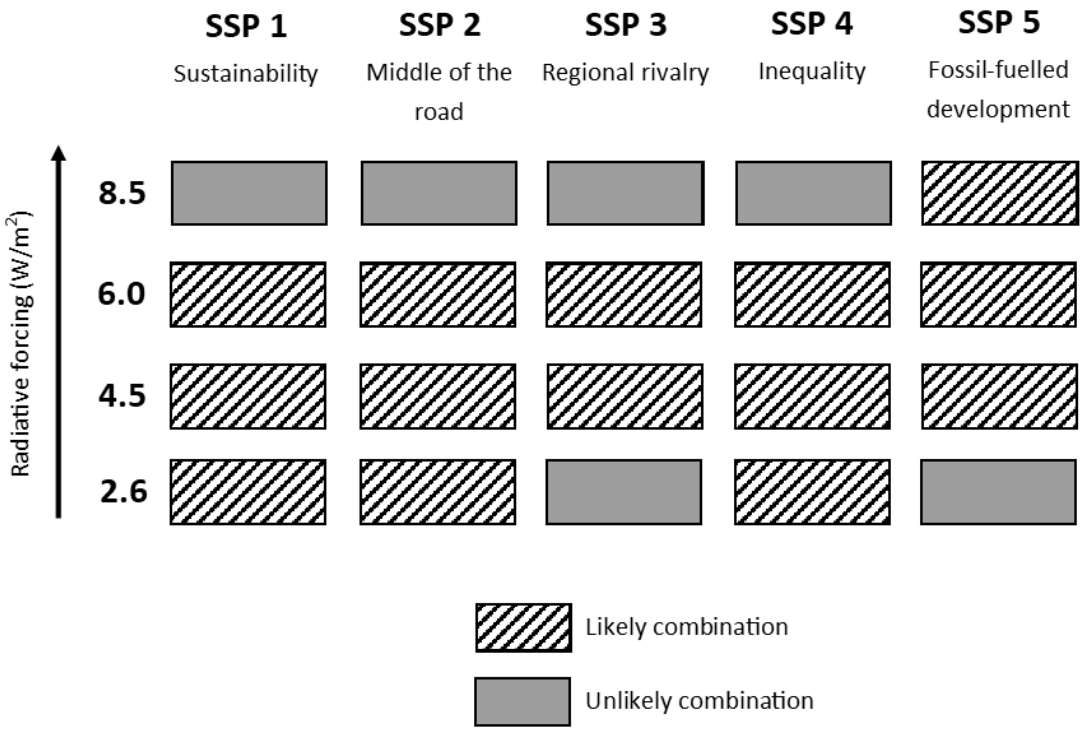

Figure S5. Likely and unlikely combinations of Shared Socioeconomic Pathways (SSP) and Representative Concentration Pathways (RCP) expressed in radiative forcing

This figure is based from: Riahi K, van Vuuren DP, Kriegler E, Edmonds J, O'Neill BC, Fujimori S, et al. 2017. The Shared Socioeconomic Pathways and their energy, land use, and greenhouse gas emissions implications: An overview. Glob Environ Chang; doi:10.1016/j.gloenvcha.2016.05.009.

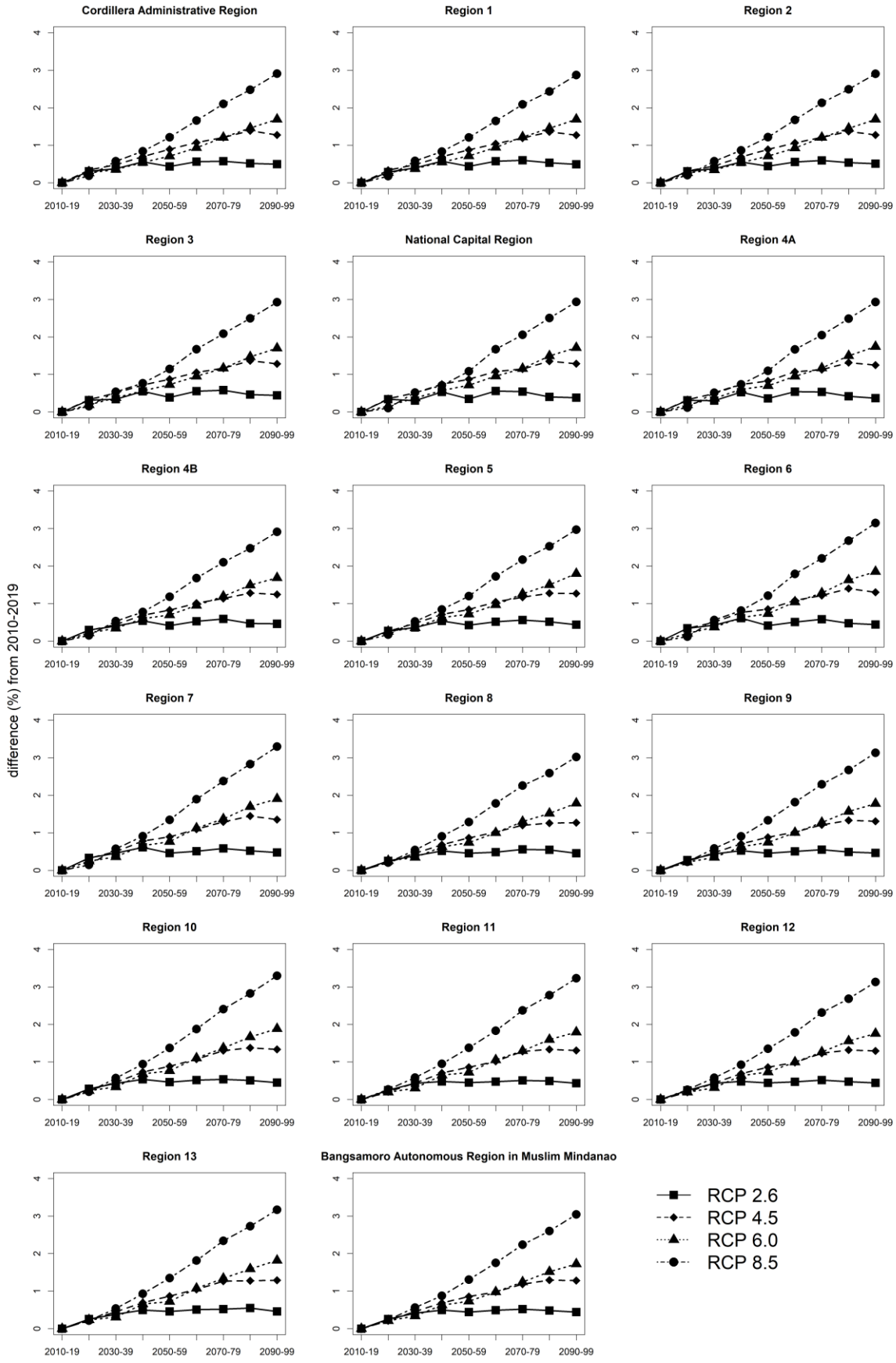

Figure S6. Decadal temperature difference relative to 2010–2019 according to representative concentration pathways (RCPs) shown by Philippine region.

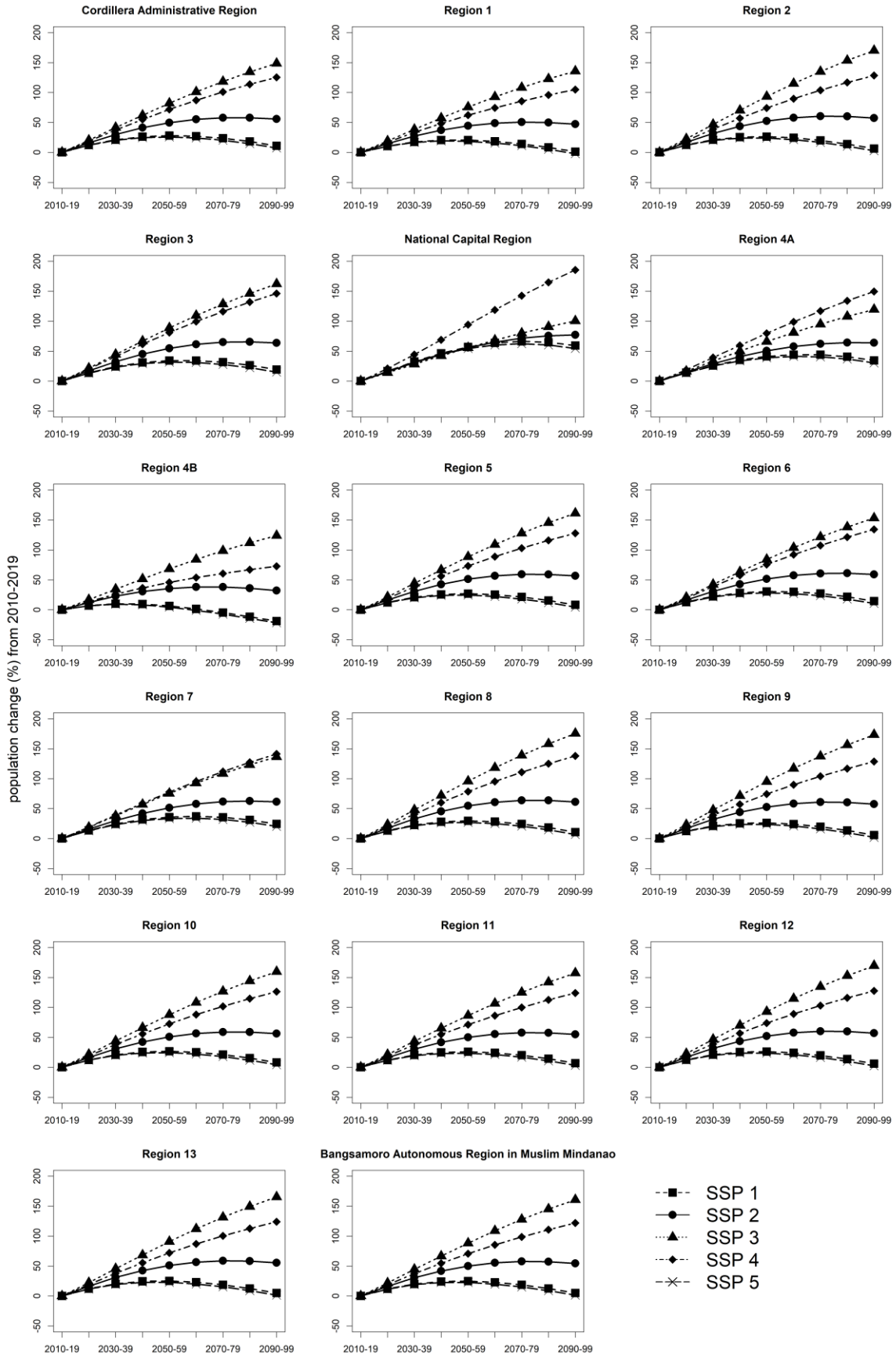

Figure S7. Decadal population difference relative to 2010–2019 according to shared socioeconomic pathways (SSPs) shown by Philippine region.

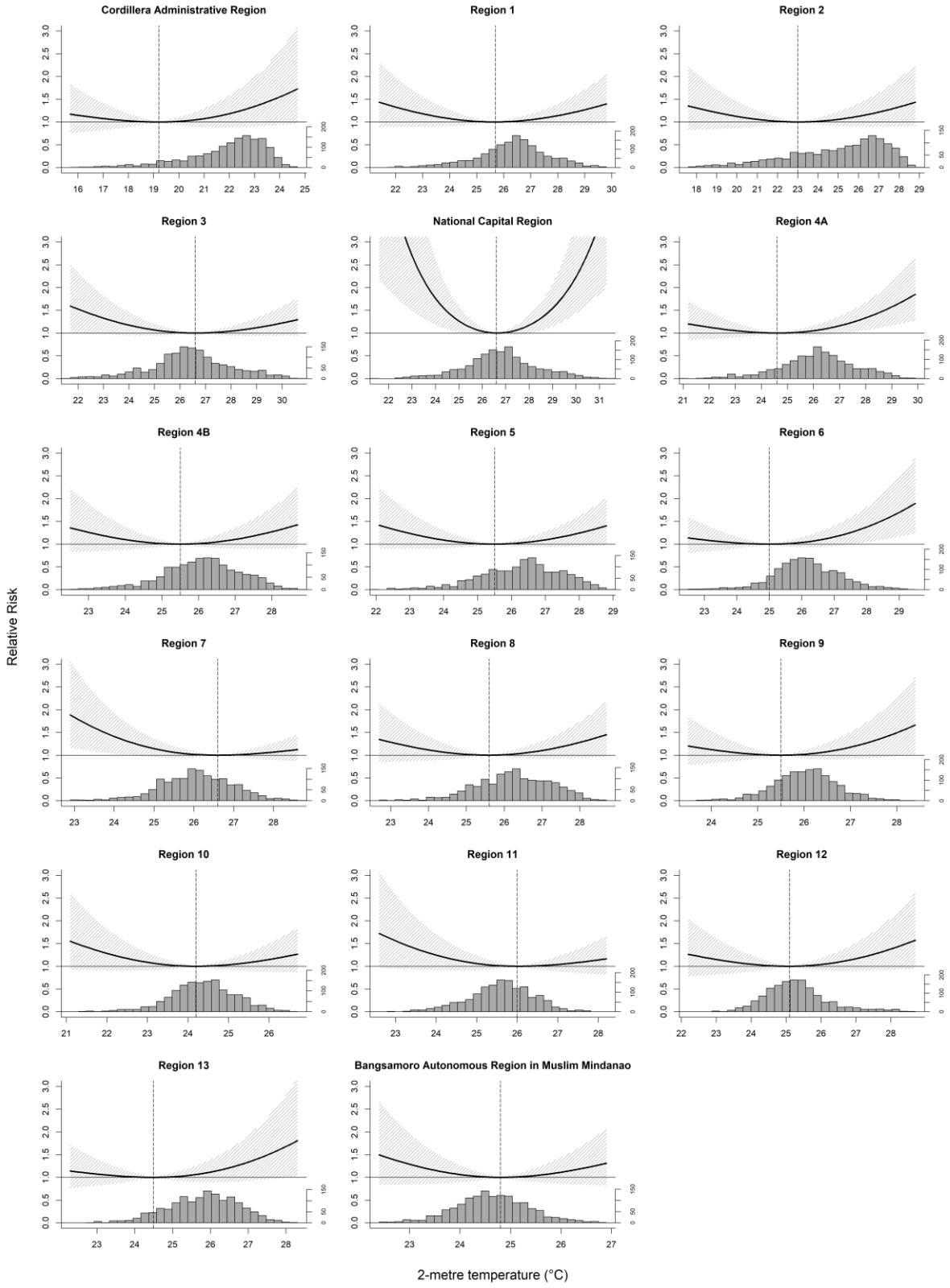

Figure S8. Cumulative temperature–enteric infection mortality associations by Philippine region in 2014–2017. Solid lines refer to mean relative risks, dashed lines refer to minimum risk temperatures, shaded regions refer to 95% empirical confidence intervals, and grey histograms refer to distribution of daily temperatures.

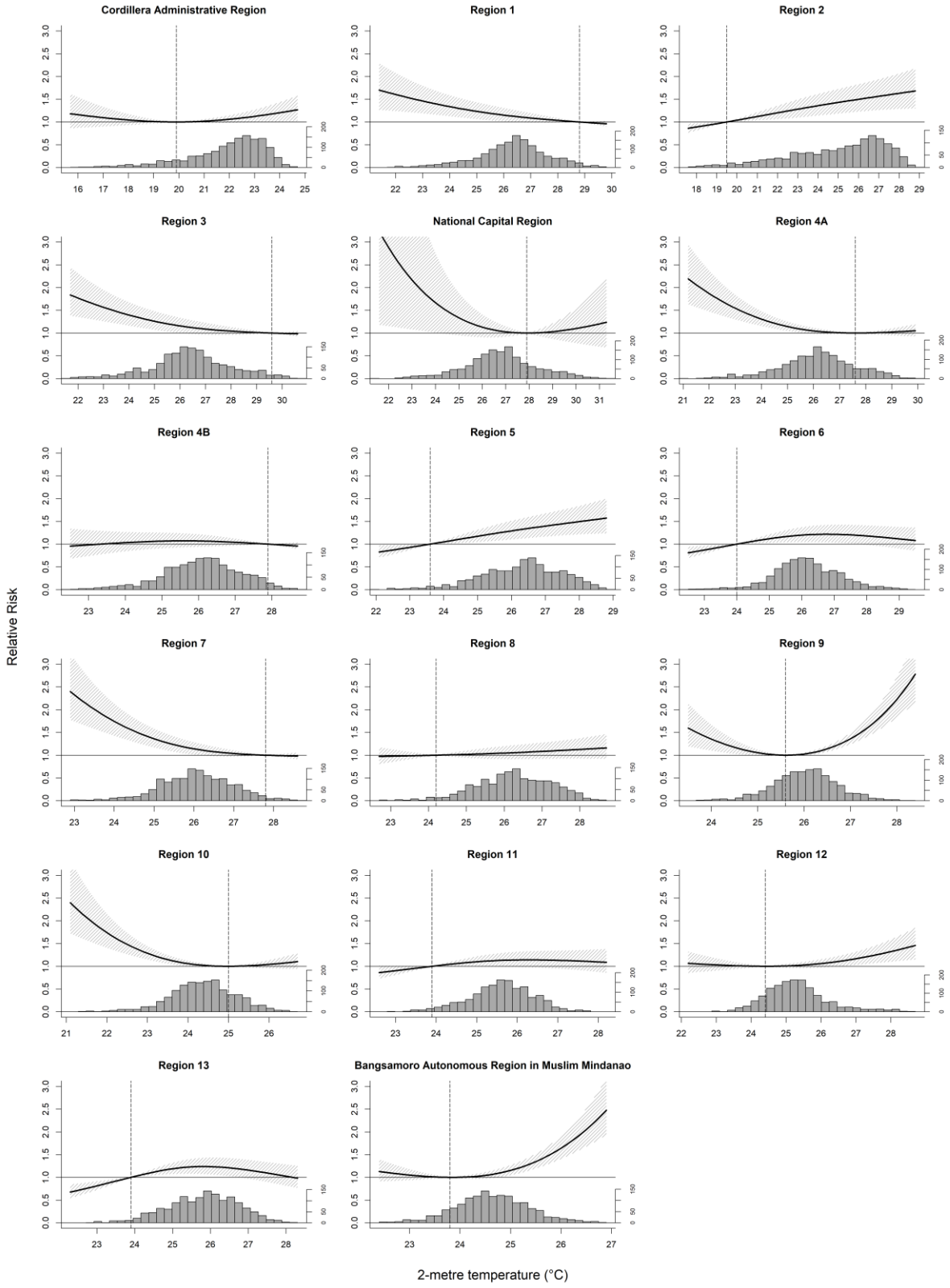

Figure S9. Cumulative temperature–enteric infection hospital admissions associations by Philippine region in 2014–2017. Solid lines refer to mean relative risks, dashed lines refer to minimum risk temperatures, shaded regions refer to 95% empirical confidence intervals, and grey histograms refer to distribution of daily temperatures.

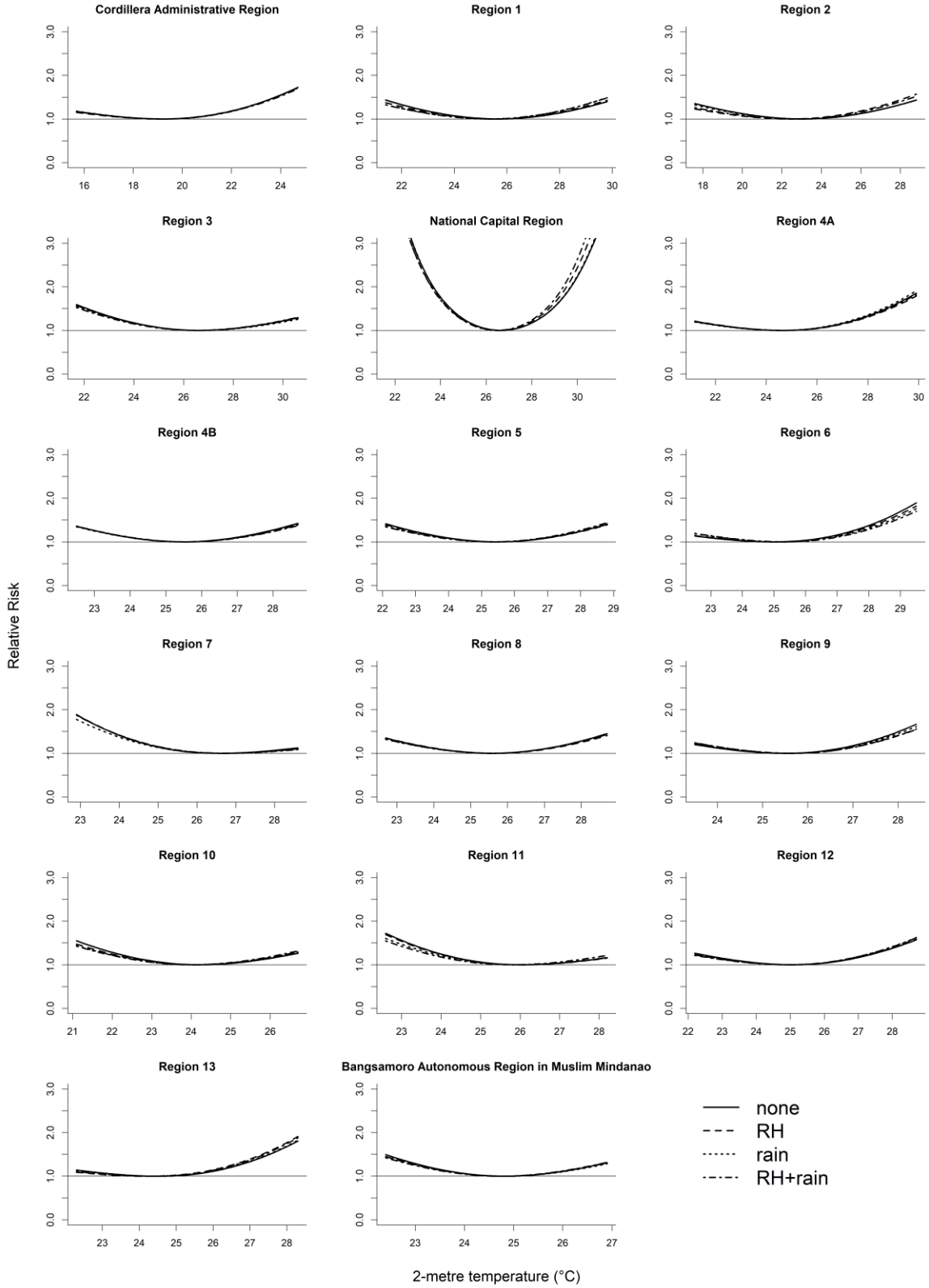

Figure S10. Regional cumulative temperature–enteric infection mortality associations for 2014–2017 adjusting to confounders (sensitivity analysis).
RH=relative humidity; rain=total precipitation

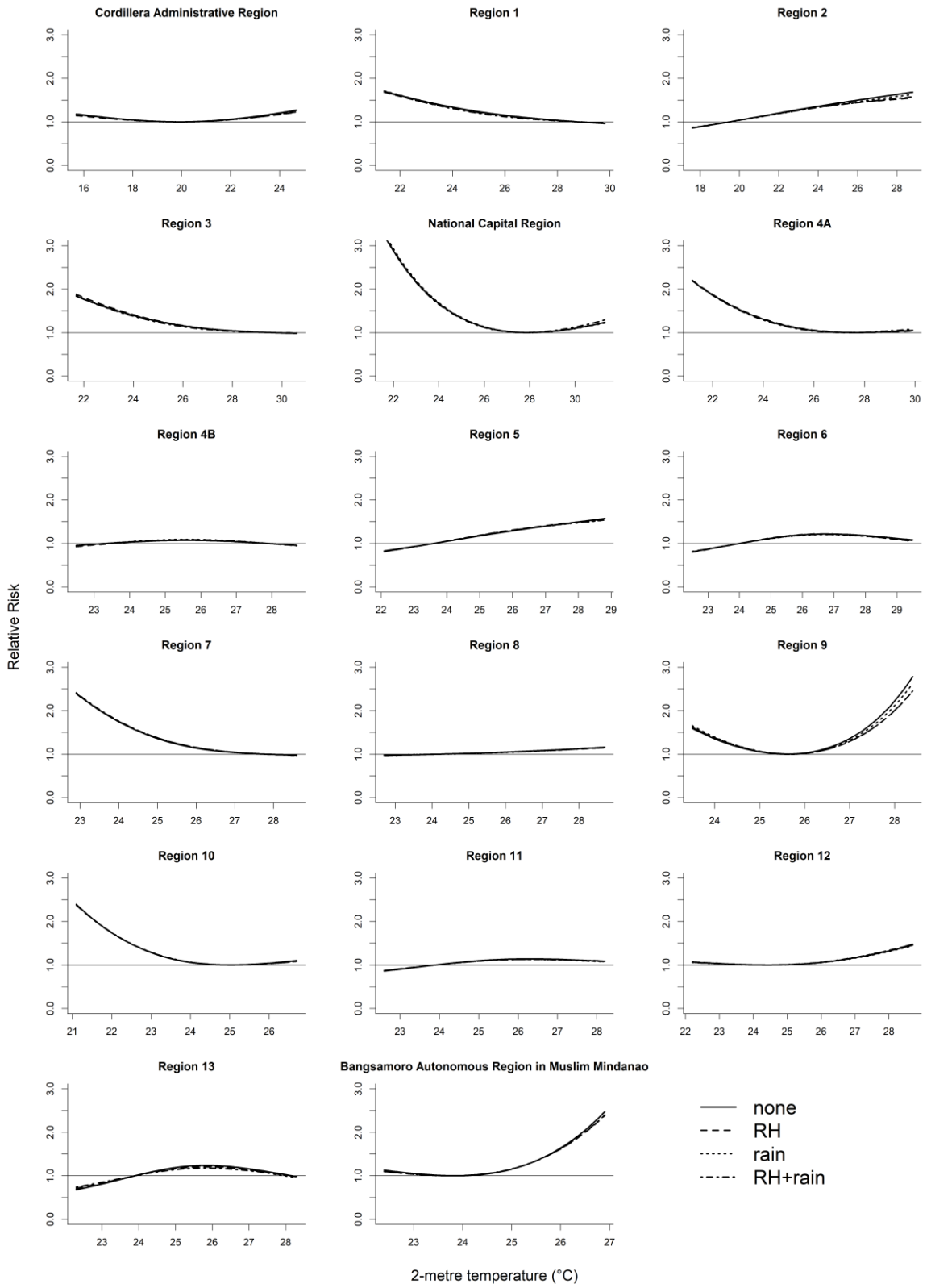

Figure S11. Regional cumulative temperature–enteric infection hospital admissions associations for 2014–2017 adjusting to confounders (sensitivity analysis).
RH=relative humidity; rain=total precipitation

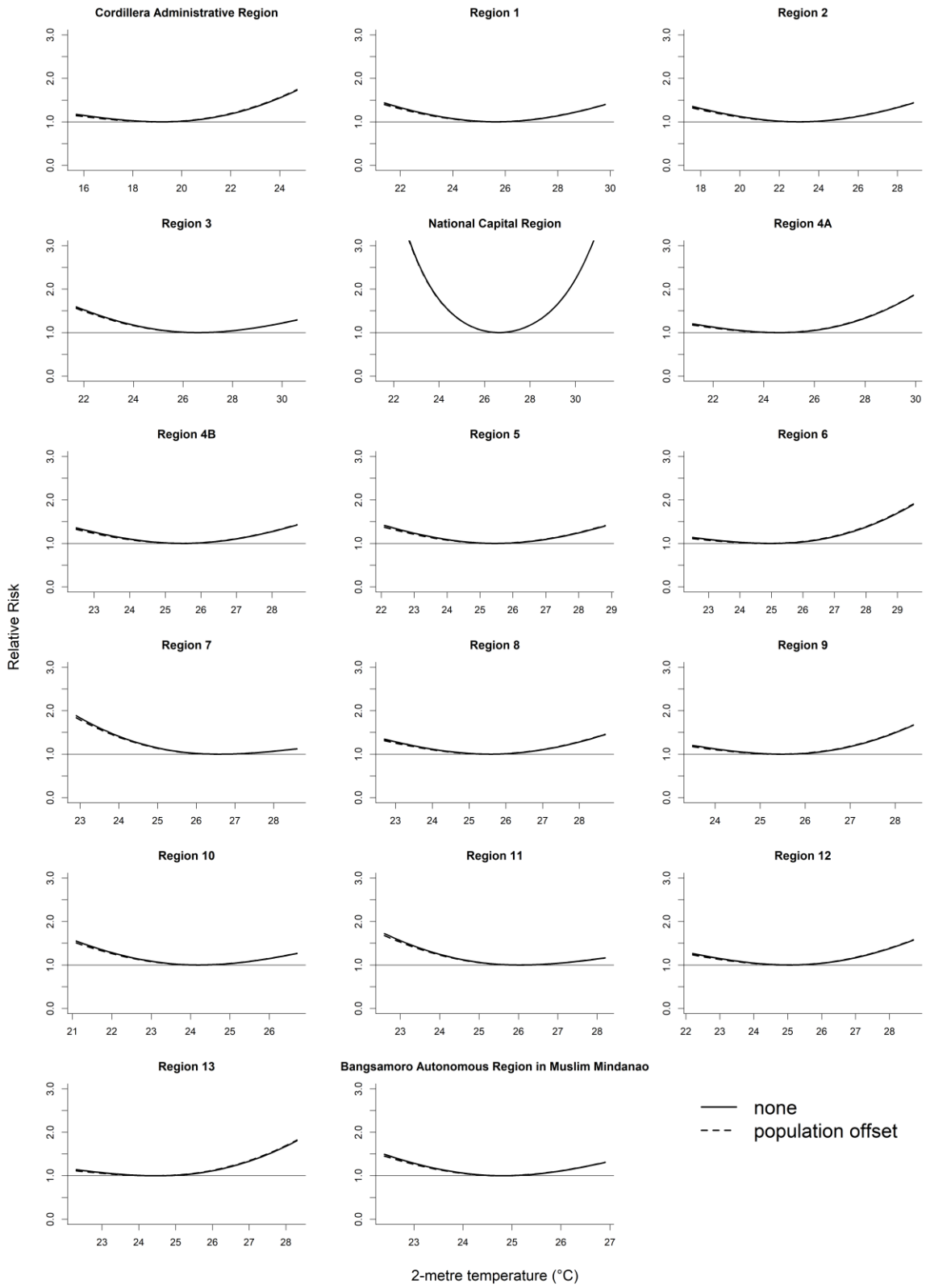

Figure S12. Regional cumulative temperature–enteric infection mortality associations for 2014–2017 with population as offset (sensitivity analysis).

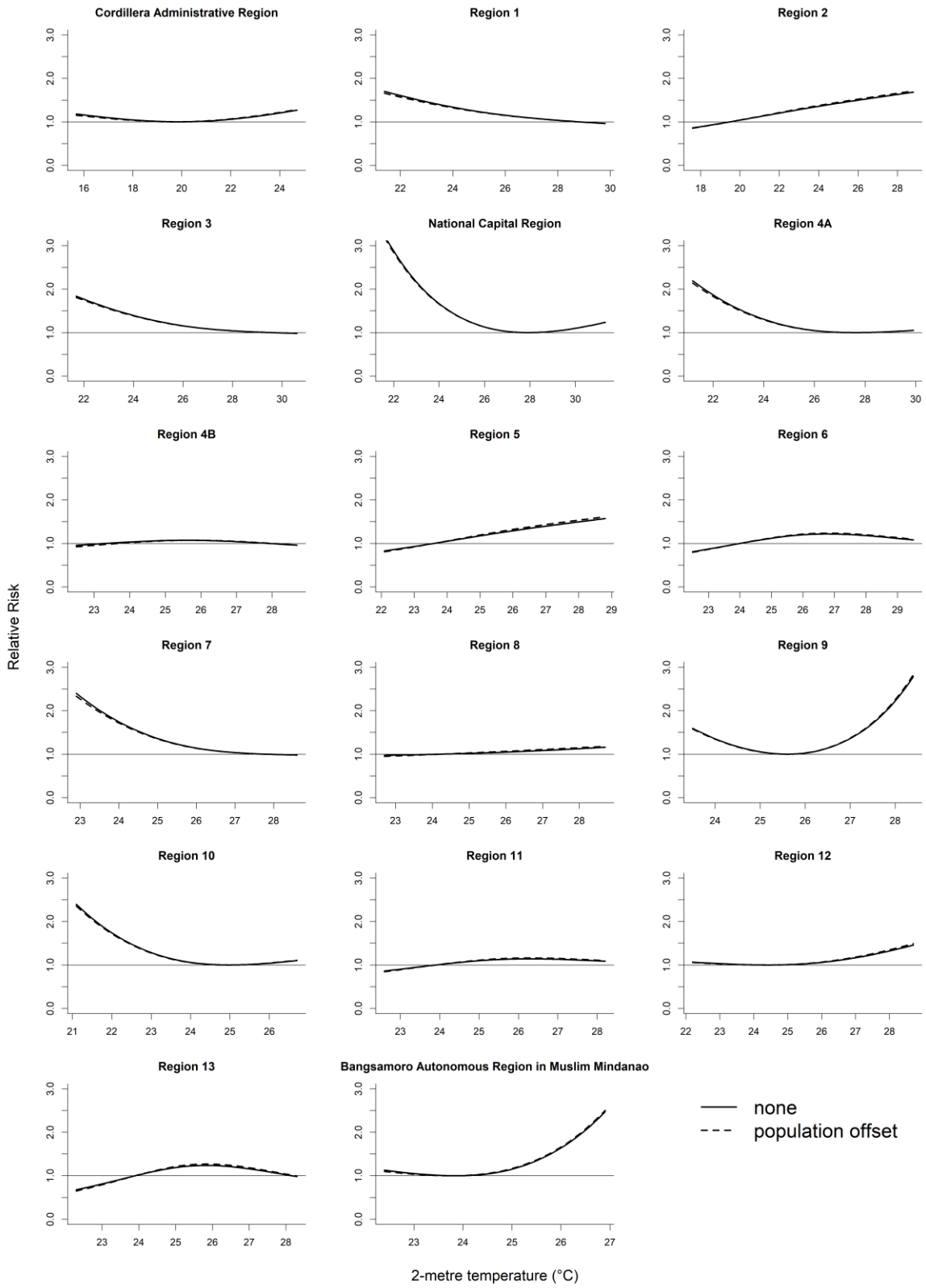

Figure S13. Regional cumulative temperature–enteric infection hospital admission associations for 2014–2017 with population as offset (sensitivity analysis).

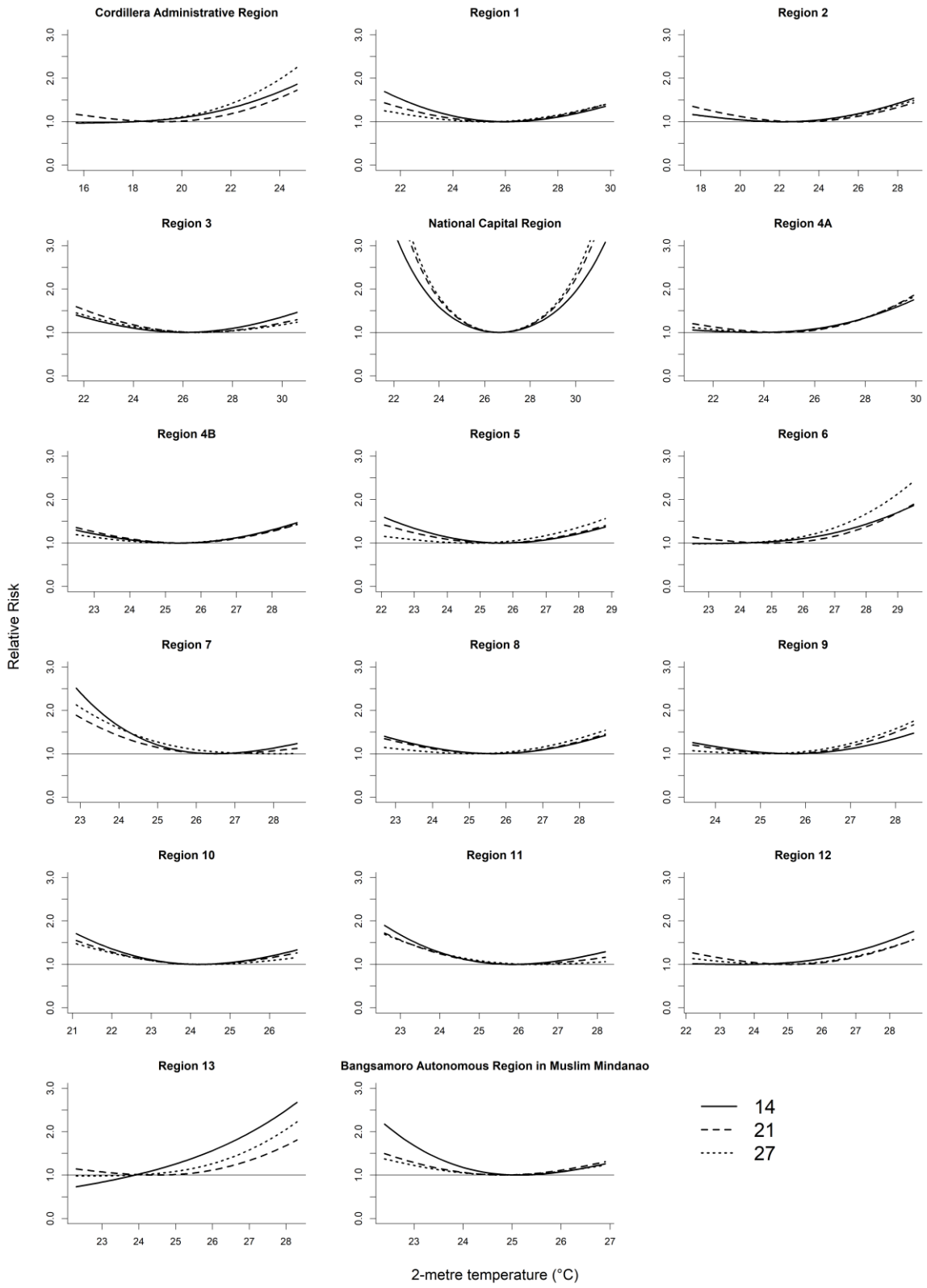

Figure S14. Regional cumulative temperature–enteric infection mortality associations for 2014–2017 changing maximum lag days (sensitivity analysis)

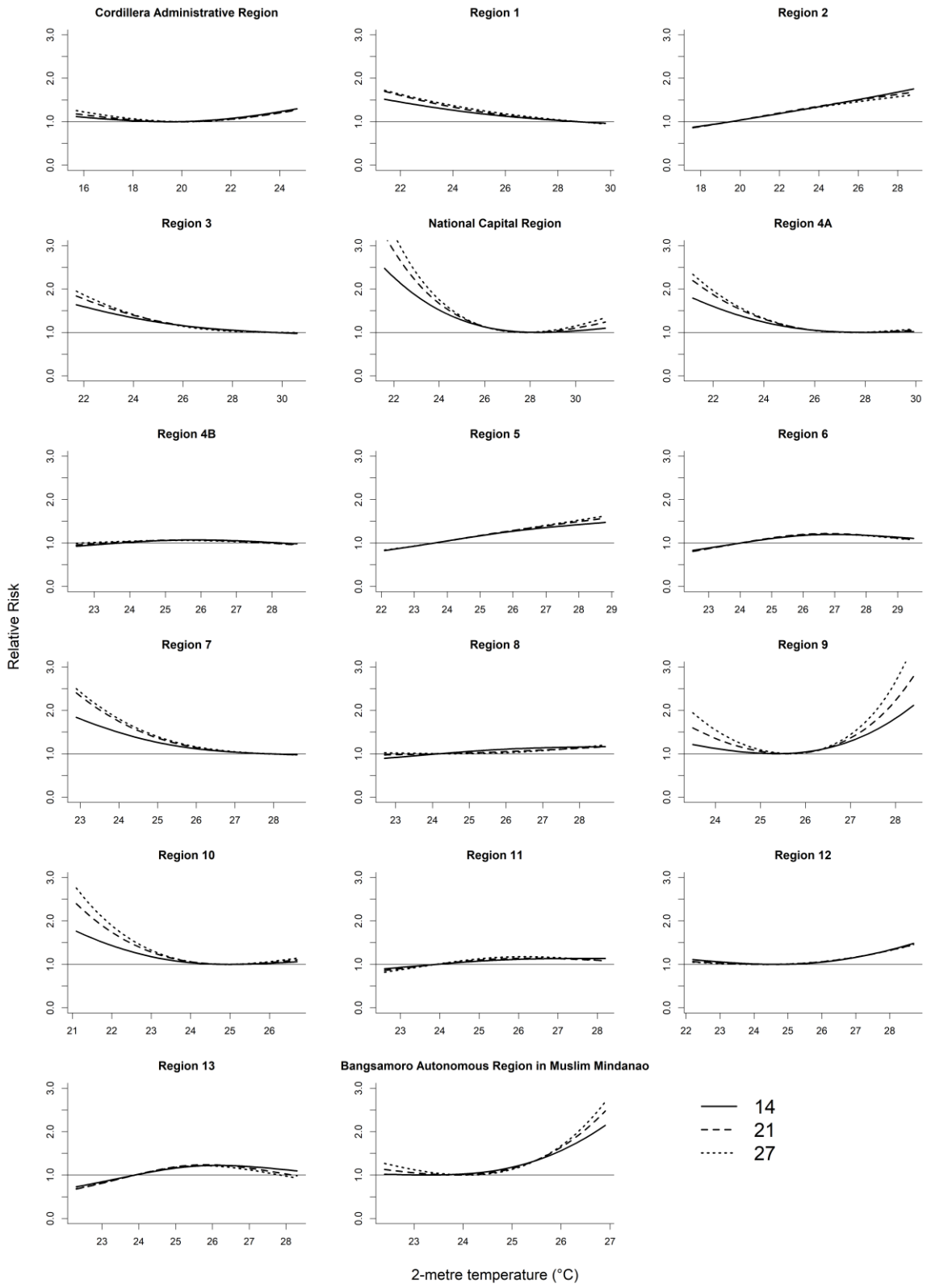

Figure S15. Regional cumulative temperature–enteric infection hospital admissions associations for 2014–2017 changing maximum lag days (sensitivity analysis)

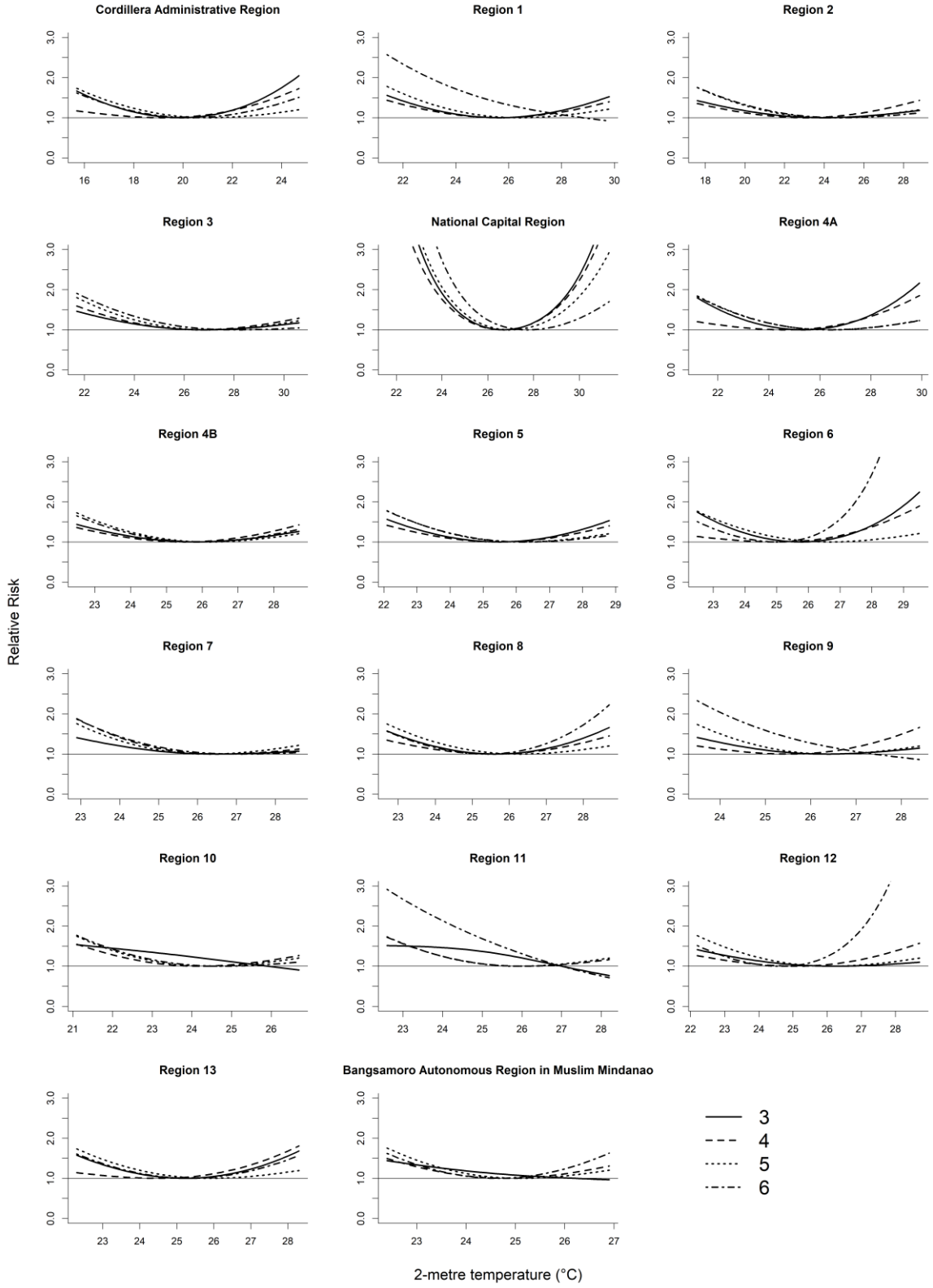

Figure S16. Regional cumulative temperature–enteric infection mortality associations for 2014–2017 changing degrees of freedom for time or day (sensitivity analysis)

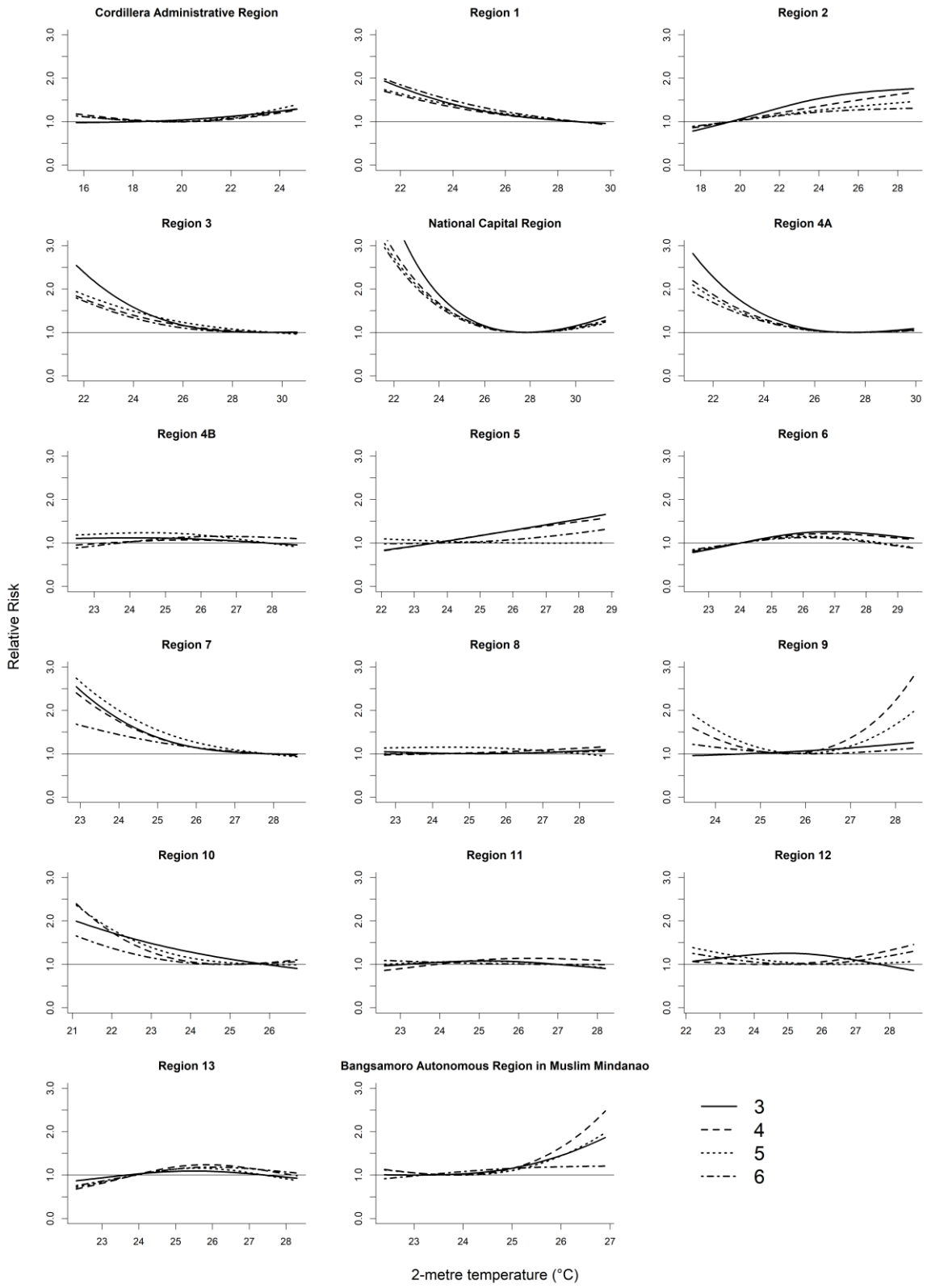

Figure S17. Regional cumulative temperature–enteric infection hospital admissions for 2014–2017 associations changing degrees of freedom for time or day (sensitivity analysis)

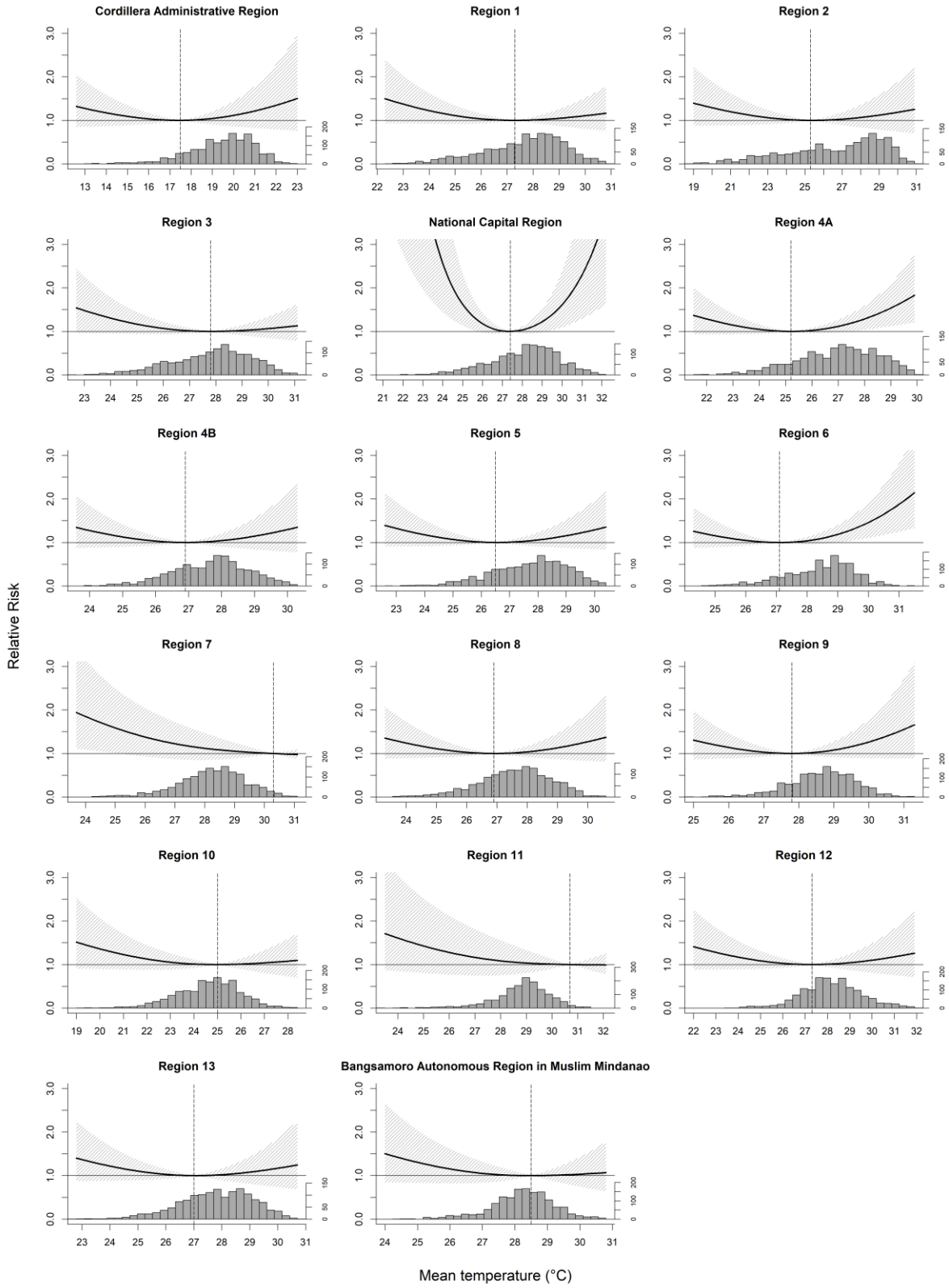

Figure S18. Regional cumulative temperature–enteric infection mortality associations using weather stations daily mean temperatures for 2014–2017 (sensitivity analysis). Solid lines refer to mean relative risks, dashed lines refer to minimum risk temperatures, shaded regions refer to 95% empirical confidence intervals, and grey histograms refer to distribution of daily temperatures.

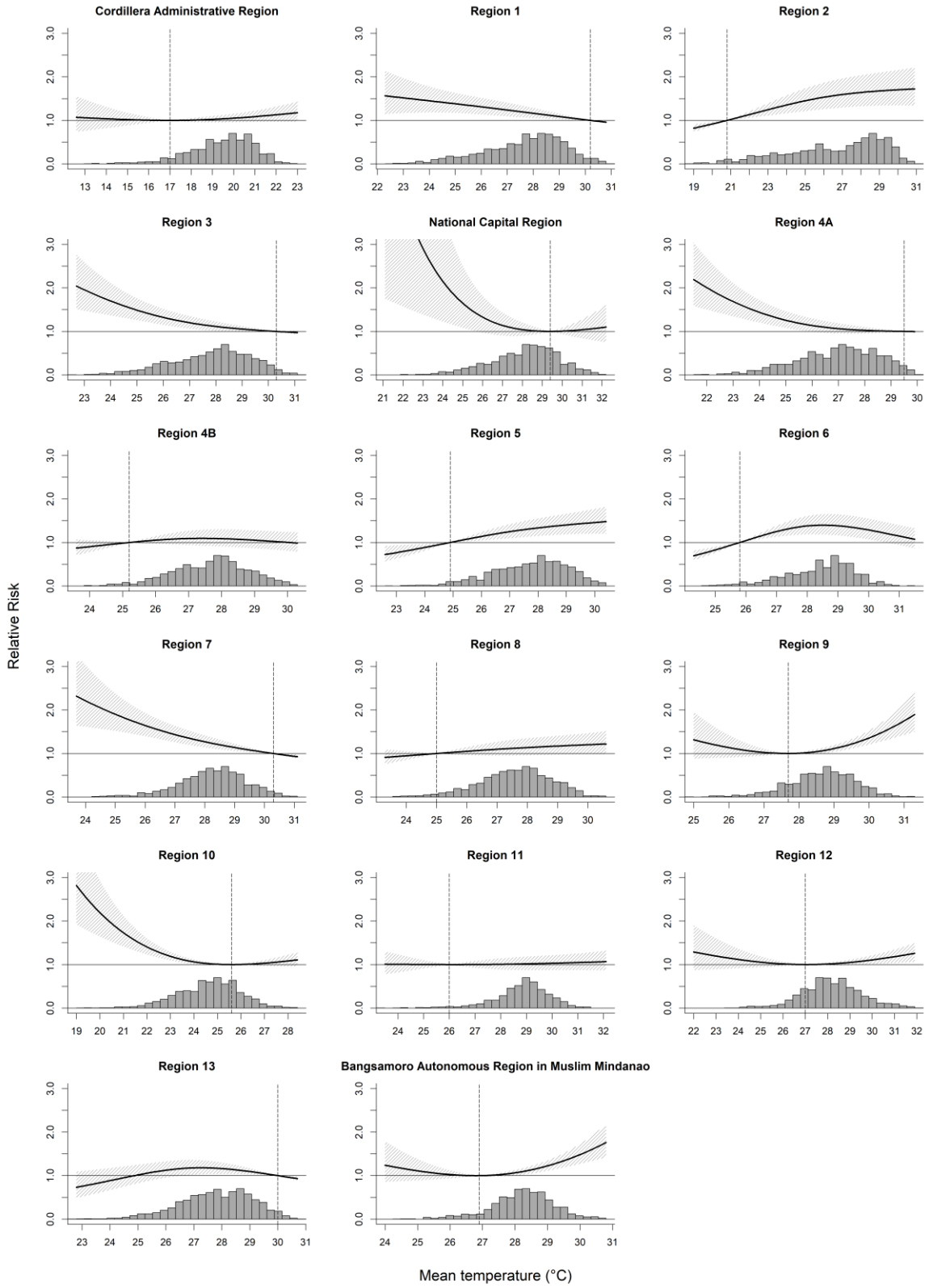

Figure S19. Regional cumulative temperature–enteric infection hospital admission associations using weather stations daily mean temperatures for 2014–2017 (sensitivity analysis). Solid lines refer to mean relative risks, dashed lines refer to minimum risk temperatures, shaded regions refer to 95% empirical confidence intervals, and grey histograms refer to distribution of daily temperatures.

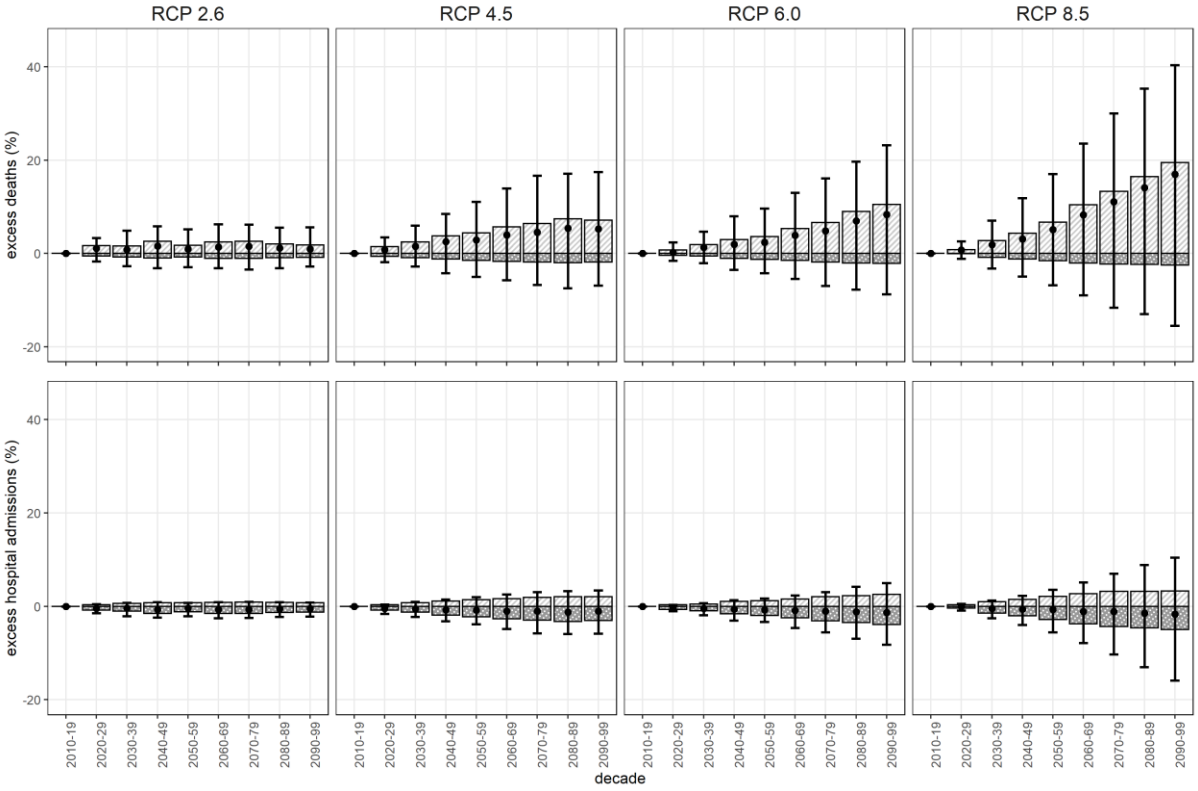

Figure S20. General circulation model-ensemble temperature-attributable fractions of enteric infections relative to 2010–2019 by outcome in the Philippines using weather stations data (sensitivity analysis). Striped bars refer to high temperature-attributable enteric infections, dotted bars refer to low temperature-attributable enteric infections, black circles refer to total temperature-attributable enteric infections, and error bars refer to 95%eCI.