Index

Page number in bold represents an image.

9/11 terrorist attacks 16, 24, 97, 131, 154, 171, 182, 293, 296, 299–300, 323, 325, 342
  and NYPD 154, 183
  lessons from 88, 92, 221, 258, 262n.58, 379
  recovery from 58
  role of citizens during 10, 210, 272

Abe Shinzo 242
Abidjan 56
Abu Sayyaf Group 25
Adadevoh, Stella Ameyo 65, 67, 380
Afghanistan 105, 201, 217n.108, 317, 387
  law enforcement 85, 313
  United States in 269, 272, 293, 353
  US mistakes in 127, 140, 200, 336, 347
  see also Kabul
Africa 181, 365, 372, 391
  infrastructure 121
  malaria 69, 244, 390
  Mediterranean 44
  organised crime 112
  population 181, 392, 376–7, 392
  slum-dwellers 63, 100
  urbanisation 30, 32, 68, 383
  see also sub-Saharan Africa, West Africa *and individual cities and countries*
Ahmed Iman Ali 106
AI, *see* artificial intelligence
Airbnb 212, 316, 373
Akihito, Emperor 5
Aleppo 129
All India Radio 196
Al-Qaeda 17, 296
al-Shabaab 106
alternative authority, *see* other-governors
America, *see* United States
Amman 13
Anaheim 49, 211
Aristotle 43, 44
Armed Forces of the Philippines 25, 217, 288, 292
artificial intelligence (AI) 130, 253, 280, 360, 362–3, 382
Asia 44, 250, 365
  urban population 64, 284, 287, 365
  see also South Asia *and individual cities and countries*
Asian Century 14
Asia-Pacific 169
Asiatic cholera 132
Assistance Publique–Hôpitaux de Paris (APHP) 261, 262n.58
Athens 17, 36, 54, 390
Aum Shinrikyo 192
Australia 7, 46, 62, 211, 212, 232, 388

Australian Army 156, 202, 207, 213, 259–60

Babylon 38, 54
Baghdad 24, 136, 163, 282, 309, 396
  civilian infrastructure 81, 82n.18, 87, 89, 93, 325
  electricity infrastructure 84, 86, 89, 147, 322, 338
  militias/insurgents in 115, 127
  US military–civilian relations 201, 274, 275, 280
  US mistakes in 268–9, 270–1, 315, 322, 325, 396
Baker, Farah 128, 129
Bangkok 2, 96, 302, 356, 400
Bangladesh 12, 50, 63, 100, 109, 231, 267, 296, 341, 387
  see also Dhaka
Bank of Japan 23
Basra 243, 397
Baswedan, Anies 367
Bay Area 93, 207, 259, 263, 335, 373, 387, 401
  see also San Francisco
Bay Area Urban Area Security Initiative 93
Bay City 58
BayShare 373
Beijing 50, 289, 291, 350, 352, 391, 403
  neighbourhood committees 185
  pollution 16, 263, 400
  population 96
  survival of 17
  water supply 215, 263
Beirut 13, 24, 285, 335, 362
Bejarano, Diego Fernando Murillo (aka Don Berna) 90
Bekasi 48
Berlin 26, 82, 213, 283, 312, 374, 382
  postwar rubble 39, 310, 326
  survival of 17, 118
Beverly Hills 49
Birmingham 302
Bloomberg, Michael 361
Bloomberg Philanthropies 373
Blue Sky Rescue Team 265
Bogor 48
Bogotá 178, 365, 367
BOKOMI (Disaster-Safe Welfare Communities; Bosai-Fukushi Komuniti) 276
Bonaparte, Emperor Louis-Napoléon (Napoleon III) 83, 339
Bosnia 142, 279
Bosnia-Herzegovina 323, 355
  see also Sarajevo
Boston 53, 55, 188, 339
  Marathon bombing (2013) 150, 262, 272
BRAC 267
Brasília 388
Brazil 30, 60, 61n.130, 104, 105, 107, 253, 352, 381
  see also individual cities
Brinkley, Douglas 191, 250
Britain, *see* United Kingdom
British Air Force 268
British Army 141, 184, 268
  in Iraq 138, 248, 268, 397
  in Northern Ireland 137, 144, 145, 333
  in World War II 267, 315
Brooklyn 57, 94, 194, 232, 337
Brooks, Johnny 250
Brown, Robert B. 128, 348
Buenos Aires 56, 365
Bukit Ho Swee development 329, 330, 334
Bulacan 47
Burbank 49, 211, 217
Byzantium 36

Cairo 17, 24, 36, 38, 46, 55, 65, 98, 387, 388
  as primate city 96

Calabasas 49
Calcutta 100
see also Kolkata
California 18, 86, 214, 335, 371, 401, 404
earthquakes 363, 379
emergency response 88, 93, 148, 160, 259, 271
Northern California Regional Intelligence Center 259, 271
population 55
see also individual cities
Canberra 388
Caribbean 14
Cavite 47
Centers for Disease Control and Prevention (CDC) 65, 94, 153
Central America 27, 39
Central Intelligence Agency (CIA) 172
Cheatham, Ernest C. 235, 287
Chechnya 78, 296, 320, 382
see also Grozny
Chengdu 50, 352
Chiang Kai-shek 284
Chicago 37, 48, 101, 114, 170, 183, 188, 247, 320, 325, 380, 402
China 43, 46n.90, 51, 55, 56, 245, 247, 265, 283–5, 296, 366, 367
ageing population 30, 376, 391
and Covid-19 134, 225, 265, 364, 390
and Hong Kong 55–6, 178, 369, 374
authoritarian government 150, 369, 374
community associations 185
definition of urban area 43, 44, 46, 96, 302
food supply 302
hukou ('household registration') 350, 351, 352
income gap 350
inequality 350, 351, 352
migration 348, 351, 376
natural disasters 18, 363
overseas investment 70, 212
population homogeneity 54n.117, 62, 376
relations with United States 150, 242
urbanisation 14, 30, 46, 50, 96, 347–8, 376, 391
see also individual cities
Chinese, in Singapore 329, 334
Chongqing 46
citizen
compliance during Covid-19 206, 220, 226, 265, 267, 311, 383, 400
organisations 69, 276, 277, 401, 402
outsider engagement with 259, 260, 280, 318
police use of knowledge 79–80, 125, 137, 176, 180, 240, 260, 272
rescues after Great Hanshin Earthquake 23, 120, 301
rescues in Mexico City 120, 121, 211, 326
rescues in Tokyo 10, 120–1, 260
responses in New York 206, 225, 310–11, 359, 398
responses to Covid-19 206, 225, 266
responses to Great Hanshin Earthquake 104, 109, 276
responses to Hurricane Katrina 202, 326
responses to Hurricane Sandy 210, 211, 212, 299
role after 9/11 attacks 10, 210, 272
role in preventing terrorism 80, 176, 182, 221, 240, 261, 272
see also good Samaritans, person on the street, strangers

citizens as
collective actor 118, 403
informants 80, 179, 272
knowledge-holders 179–80, 223, 264
saviours 11, 120, 121, 124, 202, 232
see also first responders—*first*, other-governors
City of Los Angeles 28, 49, 79, 146, 210, 217, 277, 367, 402
see also Los Angeles
Clark, Bob 284
climate change xii, 40, 93, 337, 347, 356, 367, 371, 375, 379, 380
and heat in urban areas 95, 331
and increase in disasters 19, 223, 224, 300, 332, 337, 357
Coast Guard, Indian 197
Coast Guard, US 6, 203, 243, 257
Coca-Cola 278, 319
codes, *see* standards
Coke, Christopher 'Dudus' 103, 104, 109
Cold War 14, 215
Cologne 39, 248
Colombia 89–90, 104, 178, 247, 325, 333
Covid-19 in 367–8
Revolutionary Armed Forces of 90
see also Bogotá, Medellín
Concerned Citizens of South Central Los Angeles 277
Constantinople 13, 36, 39, 214, 301, 390
see also Istanbul
Coogee Beach Surf Life Saving Club 211, 212
Copenhagen 96
Côte d'Ivoire 56, 368, 369
Covid-19 84, 219, 220, 236, 290, 342, 364, 365
and citizen compliance 206, 220, 226, 265, 267, 311, 383, 400
and political leadership 92, 118, 206, 225, 336, 366, 374, 380
and social media 265, 352
and urban flight xiv, 386, 403
as urban phenomenon 105, 214, 219, 347, 390
citizen responses to 206, 225, 266
economic recovery from 57, 231, 342
health system responses 228–30, 398
in Beijing 185
in Brazil 206
in China 265, 390
in Colombia 367–8
in Delhi 92
in Florida 265
in Japan 185, 228, 365, 383
in London 365, 390
in Los Angeles 225, 366, 390
in Mexico 225, 364
in Mumbai 92, 105
in New York 118, 134, 189, 206, 214, 224–5, 228–9, 231, 232, 310, 311, 342, 365, 366, 390, 398–400
in Seattle 225
in United States 92, 225, 242, 336, 352, 357, 366,
in Utah 389–90
in Virginia 231, 244, 363
misinformation 69, 118, 226, 352
SARS as preparation for 225, 347, 364
supply chain impacts 89, 214
use of data for tracking 69, 94, 367–8, 383

Dar es Salaam 302
Darwin, Charles 40
de Besange, Father Robert Jacquinot 285
de la Madrid, Miguel 122

Delhi 17, 36, 175, 287, 375
Covid-19 in 92
governance 92, 366
pollution 16
water supply 81
see also New Delhi
Delk, James 70, 160, 298
Democratic Republic of Congo (DRC) 13, 101, 274, 278, 317, 387
Denmark 96, 266, 311
Denver 92
Deodatis, George 300
Depok 48
Dhaka 55, 105, 109, 243, 333, 380
corruption 109, 350
disaster preparedness 384
earthquakes 12, 384
flooding 12, 63, 239, 384
migration to 101, 384
population 50, 341
sea-level rise 356, 388
slums 63, 333
Dharavi 64
DRC, *see* Democratic Republic of Congo
Dresden 283, 320

Ebola 56, 64–9, 78, 148, 153, 184, 240, 245, 256, 263, 264–5, 269, 274, 279, 311, 318, 380
Egypt 31, 44, 63, 96, 98, 128, 283, 387
Israel's attack on Suez City (1973) 134–5
see also Cairo
England, *see* United Kingdom
Epstein, Aaron 251–2
Escobar, Pablo 104, 333
Ethiopia 100, 387
Eurasian tectonic plate 8n.21, 12, 22
Europe 44, 81, 226n.132, 246n.23, 254, 261, 352
ageing population 376
and Israel 129
Covid-19 in 266, 398
disaster risk 356
economy 114
heatwave (2003) 87
plague in 248
urbanisation 347
World War II 236
European Commission 44
European Union 111, 365, 366, 372, 376

Facebook 3, 128, 129, 184, 211, 251, 269, 361
Fallujah 163, 164, 258, 281, 293, 321, 343, 344
FDNY, *see* New York—Fire Department
Federal Bureau of Investigation (FBI) 58, 146, 194, 272
Federal Emergency Management Agency (FEMA) 88, 147, 222, 230, 375, 404n.16
Fiji 259
Fink, Sheri 170, 180, 203, 279
first responders 246, 324, 360, 381, 393, 399, 401
first 10, 11, 120, 210, 232, 352, 380
see also citizen, citizens as—saviours, law enforcement, policing, security, strangers
Florida 265
see also Miami, Tampa–St Petersburg
Fontenot, Greg 323
Ford, Peter 102, 253
France 28, 94, 96, 122, 128, 192, 221, 261, 315, 369
see also French—in Shanghai *and individual cities*
Frankfurt 248, 325
French, in Shanghai 283, 285

Fukushima Daiichi Nuclear Power Plant 5, 6, 69, 124, 242, 255, 347
meltdown 4
mismanagement of 89n.34, 171
see also Great East Japan Earthquake and tsunami (2011)
Fukushima disaster (2011) 183, 242, 378, 390
as unnatural disaster 6, 347
communications failures 184, 200, 233, 352, 361, 378
cost of 6
evacuees 7
infrastructure vulnerabilities 224, 299, 347, 378
lack of preparation for 15
meltdown 4
misinformation 69, 361
Operation Tomodachi 6, 255
operators' response 5
plant mismanagement 89n.34, 171
response errors 124
US assistance to 255
see also Great East Japan Earthquake and tsunami

Gaddafi, Muammar 130
Gaza 95, 129, 142, 187, 188, 282–3, 288, 292, 326
see also Hamas, Palestinian
Germany 44, 122, 240, 337, 374
World War I 305, 306
World War II 39, 82, 213, 218, 315, 382
see also individual cities
global positioning system (GPS) 129, 247, 362
global warming, *see* climate change
good Samaritans 10, 121
see also citizen, citizens as—saviours, person on the street
Grande, Lise 90, 271, 303, 343, 344, 345, 346
Great East Japan Earthquake and tsunami (2011) 89n.34, 183, 242, 336, 378
communications failures 184
cost of disaster 6
death toll 4
evacuees 7
impact on Tokyo 6, 9, 401
lack of evacuations 358
loss of housing 7
loss of media interest in 6–7
preparation shortcomings 15, 183
response shortcomings 124
size of earthquake 3–4
see also Fukushima disaster
Great Fire of Meireki (1657) 38
Great Hanshin Earthquake (1995) 9, 12, 276, 301, 335
and building codes 311, 335
citizen rescues 23, 120, 301
citizen responses to 104, 109, 276
government response to 104, 124, 277
rebuilding after 277, 311, 335
Greece 43, 48, 148, 295, 365
see also Athens
Grenada 267, 274
Grozny 25, 78, 320, 382
Guangzhou–Foshan 96, 357

H1N1 influenza 105
Haiti 117, 249, 359
Hamas 95, 142, 188, 288
Hamburg 39, 220, 221, 283, 289, 310, 326, 374
Hanawa, Junichi 223
Harare 302
Harcourt, Admiral Sir Cecil 165
Haussmann, Baron Georges-Eugène 83, 339
Hayward Fault 335
Heal, Sid 191, 218, 249, 254, 257

heat island effect 86–7, 95, 286, 362, 375
heatwaves 87, 94, 95
Hermosa Beach 49
Hezbollah 146
Hiroshima 283, 312, 320
Hisdai, Yaakov 134
Ho Chi Minh City 304, 356, 357, 365
Hokkaido earthquake (2018) 139, 223, 306
Hollis, Mark 204
Home Depot 210, 278
Homeless People's Federation of the Philippines 211
Hong Kong 31, 42, 55, 316, 403
  and China 55–6, 178, 365, 369, 374
  as British colony 56, 165–6, 178, 220
  as financial centre 55–6, 365, 374, 386
  Covid-19 in 225, 353
  Planning Unit 165, 166
  SARS in 225
  water supply 178, 214, 338, 349
  World War II 164–6, 178, 220
Houston 54, 227, 336
Humphrey, Brian 179
Hurricane Katrina (2005) 250, 357
  citizen responses to 202, 326
  health system failures 177, 180–1, 203, 230, 336
  infrastructure failures 224, 227, 228
  Memorial Hospital response 177, 203
  response failures 147, 191–2, 222
  review of response to 120, 147
Hurricane Sandy (2012) 10, 16, 58, 94, 118, 227, 337, 342, 347, 379
  and health system 230
  citizen responses to 210, 211, 212, 299
  electricity supply 94, 228, 299
  infrastructure failures 180, 224, 335
  lack of preparedness 15, 153
  official response to 93, 124, 222, 257
  preparedness for 15, 358–9
Hussein, Saddam 128, 163, 239, 250, 269, 322, 338, 396

IDF, *see* Israel Defense Forces
IDPs, *see* internally displaced persons
IGOs, *see* intergovernmental organisations
India 11, 114, 117, 171, 173, 174, 199, 287
  All India Radio 196
  caste system 391
  Coast Guard 197
  de-urbanisation 13
  heat islands 375
  life expectancy 64
  Marine Commandos (MARCOS) 174
  population growth 387
  poverty levels 30n.29
  slums 99, 333
  urban definition 44
  water shortages 16
  see also individual cities and states
Indians, in Singapore 334
Indian tectonic plate 12
Indonesia 51, 147, 280, 327, 354, 367, 387, 388
  NGOs in 327, 328, 331
  see also Jakarta
Indo-Pacific 11, 13
influenza epidemic (1918–19) 189, 226
  in New York 118, 189, 226–7
  in San Francisco 226
  in United Kingdom 118
  in United States 118, 225, 226
influenza, H1N1 105

intergovernmental organisations (IGOs) 10, 56, 90n.36, 263, 303, 319, 371
and African Ebola crisis 65, 153
and security clearances 149, 253
competition for resources 385–6
coordination of 206, 255
inclusion in disaster preparedness 206, 253
military engagement with 274, 346
need for urban expertise 228, 386
risk management for personnel 305
training 252, 306–7
see also nongovernmental organisations
internally displaced persons (IDPs) 29, 179, 344
in Iraq 29, 271, 281, 282, 345
in Pakistan 29
international law, *see* law—international
Iran 146, 242, 243, 397
Iraq 217n.108, 270, 293, 387
coalition bombing of infrastructure 81
coalition operations in 127, 145, 205, 239, 248, 268, 272, 293
Coalition Provisional Authority (CPA) 167, 280, 397
corruption 112, 127
destruction of infrastructure 86, 147, 218, 239, 249, 250, 270
ethnic/religious conflict 257–8, 271
governance 85, 167, 218, 239, 249–51, 271, 283, 315, 358
Government 111, 271, 281, 342, 343, 345, 346
humanitarian crises 270–1
IDPs in 29, 271, 281, 282, 345
insurgencies 139, 184, 396, 397
military failures in 239, 249–50, 347, 396, 397
NGOs in 253, 270–1, 280, 281, 343, 344, 346
Operation Iraqi Freedom 147
private security in 201, 270, 275
public information campaigns 138–9, 184
recovery from conflict 147, 313, 336
urban conflict fatalities 26, 115, 281, 344
urban fighting in 78, 250, 270, 271, 281, 290, 292, 343–6
USAID Community Stabilization Program in 110
USAID in 111
use of contractors in 200, 201, 275
use of local knowledge in 76, 138, 145
US reconstruction attempts 111, 140, 200, 250, 313, 315, 321–2, 325, 332, 336, 338, 353, 358, 396
see also individual cities
Iraqi Army 396, 397
Iraqi Security Forces 112, 270, 271, 281, 282, 286, 290, 342, 343, 344, 345, 346
Irish 48, 111, 145
Irish Republican Army 113, 144, 290, 333
see also Northern Ireland
Islamic State of Iraq and Syria (ISIS) 18, 112, 149, 217, 252, 270, 271, 280, 281–2, 288, 289, 290, 292, 344, 346
Israel 128, 129, 262, 282, 287
and Europe 129
social media 129, 187
'Yo' app 187, 363
see also Jerusalem, Operation Protective Edge, Tel Aviv

Israel Defense Forces (IDF) 128–9, 146, 288, 335
attack on Suez City (1973) 134–5
lack of local information 134–5, 142
Operation Protective Edge (2014) 95, 128, 187, 188
operations in Gaza 142, 288, 292
use of social media 128, 361
Istanbul 13, 36, 80, 95, 188, 162, 304, 403
see also Constantinople
Italy 39, 41, 254, 311, 363
see also individual cities

Jabodetabek, *see* Jakarta
Jakarta 55, 327, 354, 403
as Jabodetabek megacity 48
as primate city 48
Covid-19 in 367
flooding 239, 309, 327
flooding risk 12, 354, 356, 357, 388
food supply 327–8, 331
homogeneity of population 62, 183
plan to move capital city 354, 387, 388
population 46
suburban growth 385
Jamaica 103
see also Kingston
Japan 5, 10, 42, 305, 365
ageing population 3, 71, 383
building codes 12, 23
community disaster response 10, 104, 276
Covid-19 in 185, 228, 241–2, 365, 383
defence 242
disaster information 23, 122–3, 363
disaster planning 139, 194
disaster recovery 89, 277
earthquake risk 8, 378
economy 7, 23, 56
Government 104, 194, 241
Great Fire of Meireki 38
Ground Self-Defense Force 232, 253, 306
homogeneity of population 54n.117, 62, 376
immigration 71, 376, 383
invasion of China 220, 283–5
National Diet (legislature) 6, 171
natural disasters 324, 378
Poison Information Centre 194
pollution 371
population 14, 181
post-disaster communications 139, 233, 306
postwar recovery 164–6
Self-Defense Forces 5
urban populations 9, 49, 71, 96, 366
urban warfare 283, 284
violence against Koreans 61, 248
World War II 164, 165, 250
see also Fukushima disaster, Great East Japan Earthquake and tsunami, Great Hanshin Earthquake, Hokkaido earthquake, Mount Fuji *and individual cities*
Jerusalem 37, 38, 282, 320, 332
Jordan 13, 29

Kabul 105, 269
Kampala 302
Kan, Naoto 5
Kelly, Raymond W. 114
Kelly, Richard William 268
Kennedy, Ross 138, 145, 248
Kenya 352, 372, 374n.95
corruption 111–12, 303
foreign aid 303
Mungiki (criminal cult) 107–8

population 31, 387
slums 32, 98–9, 100, 102
terrorism 106, 239–40
see also Nairobi
Khambatta, Michael 199, 209
Kibera 98, 99n.61, 112
Kingston 103, 104, 109
Kitakyushu 371
Kobe 23, 104, 109, 120, 276, 277, 301, 335
see also Great Hanshin Earthquake, Osaka–Kobe–Kyoto
Koike Yuriko 241
Kolkata 30n.29, 287, 304, 356, 357
see also Calcutta
Krulak, Charles 49, 158, 218
Kuwait 138, 205, 396
Kyoto, *see* Osaka–Kobe–Kyoto

Lagos 96, 304, 403
as primate city 96
disaster risk 12, 387, 388
Ebola crisis (2014) 63, 64, 65–9, 78, 154, 263, 380
forecast collapse 55, 56, 64
infrastructure 122, 139, 375
population 65, 101, 372
sea-level rise 356, 388
slums 63, 121, 328, 329
Lamb, Graham 397
language 28, 128, 143, 144, 183
alternatives to 184, 204
and disaster response 122–3, 156, 183, 247, 264, 268
and information provision 23, 138, 143, 184, 266
differences within single 70, 88, 201, 269
military 80, 156, 163, 264, 266, 268, 269, 297
of aid providers 179, 268
professional 42, 45, 70, 201, 268,
urban diversity of 27–8, 49, 143, 144, 247
see also signage, terminology
Lashkar-e-Taiba 113, 171, 184
Latin America 14, 31, 123, 188, 260
law 85, 122, 201, 297
international 55, 82, 238, 288
law enforcement 85, 185, 189, 255, 277, 295, 318, 368, 369
and technology 114, 130, 253, 362
difficulty of in urban areas 62, 312
failures 171–3, 176, 350, 402
interagency cooperation 93, 155, 177
see also policing, rule of law, security
Lebanon 13, 29, 146
see also Beirut, Hezbollah
Lee Kuan Yew 334
Liberia 64–7, 153, 264
Libya 130
Lima 365
Lincoln, Abraham 155, 156
Liverpool 28, 95, 114
Lodhammar, Pehr 191, 228, 346
London 28, 41n.67, 52, 165, 166, 246n.23, 316, 348, 372
as financial centre 52, 55, 89, 365
as primate city 95–6, 114, 365, 366
Black Death in 37, 221
cholera epidemic (1854) 131n.32, 132–3, 136
Covid-19 in 365, 390
flood risk 337–8, 356
food supply 301, 302
governance 52, 56
Great Fire of 1666 37, 221, 320, 379
heterogeneity of population 54n.117, 62
infrastructure 52, 379

intelligence-sharing 147, 368, 369
population 31, 96, 101
signage 143, 144
slums 101
survival of 34, 36, 37, 38, 57, 118, 221
terrorism 17, 113–14, 172, 221, 240, 330
Underground (subway) 143, 144
World War II bombing of 82, 220–1, 265, 283, 289
Lopes, Antônio Francisco Bonfim 'Nem' 104, 105
Los Angeles 41n.67, 118, 121, 146, 232, 368
1992 riots 70, 88, 160, 169, 239, 241, 268, 314–15
Air Force Base 146
building design 23, 404
CBD fragmentation 217, 330
citizen groups 277
Covid-19 in 225, 366, 390
crime 130, 188, 189, 277
disaster preparedness 93, 162, 169, 190–1
earthquake warnings 363
emergency operations 147, 162, 201, 254
Fire Department 179
fires 129, 404
governance 49, 55, 56, 79, 146, 210
heterogeneity of population 28, 54n.117, 62, 183, 402
information exchange 146, 147, 179, 201–2
infrastructure 288–9, 367
international engagement 93, 232
Joint Regional Intelligence Centre (JRIC) 201–2
Northridge earthquake (1994) 162, 169, 277, 311
Police Department 130, 188
population 49, 60, 383
post-quake rebuilding 169, 277, 311
school system 28, 183
seismic risk 12, 89n.34, 118, 121
social media 129, 179
Terrorism Early Warning Group (TEWG) 147, 201–2, 263, 373
urban density 15, 55
water supply 86, 178, 214, 215
see also City of Los Angeles, Port of Los Angeles *and individual cities and suburbs*
Los Angeles County 79, 147, 404
see also individual cities
Louisiana 155, 177, 222, 227
see also Hurricane Katrina, New Orleans
Lyon 44

MacDougall, David 164–5
Maharashtra State 92, 173, 175, 176, 196
Anti-Terror Squad 176
Government 197, 198
Housing Area Development Authority 196
Road Development Corporation (MSTDC) 196, 197
see also Mumbai
Mahoney, Dan 259, 263, 271–2
Malac, Deborah R. 153–4
Malay 334
Malaya 85, 269
Malaysia 51, 85, 147, 204, 284, 367
Manchester 28
Manhattan 11, 24, 55, 57, 110, 178, 221, 247, 299, 316, 325, 335, 349, 398
Manila 29, 57, 119n.5
disaster risk 12, 119, 378
food supply 312, 365
population 26, 60, 96, 320, 343, 385

size of 47, 48, 96
slums 140, 329
water supply 178, 214, 270
World War II 25, 26, 29, 118, 178, 283, 284, 320, 392
see also National Capital Region
Marawi 25–6, 58, 149, 216–17, 288, 292
Mattis, James 215, 396, 397
McAvoy, Jennifer L. 252–3
Medellín 89, 104, 247, 325, 333, 367, 368
Médicins Sans Frontières (MSF) 154, 269
Mediterranean 38, 44, 81, 365
Mexico 62, 123, 214, 364
Mexico City 36, 39, 246–7
1985 earthquake 121, 122, 196, 211, 326
as primate city 123
citizen rescues in 120, 121, 211, 326
Covid-19 in 225, 364
disaster preparedness 123, 220, 300, 358, 363
disaster response failures 122–3, 124, 196, 211, 326
earthquake risk 118–19, 121
governance 48, 56
homogeneity of population 62
population 123, 372, 375
volcanic threat 378
water supply 214, 215, 270
Miami 54, 220, 265, 331, 339, 350
Milan 41
Mindanao 25, 216
Minneapolis–St Paul 91–2
Minnesota 91
Minocha, Nitin 175
'mission command' 35, 155–64, 166, 172, 203, 255–60, 263, 299, 317, 319, 393
Mogadishu xiii, 19, 85, 143, 203, 217n.108, 278–9, 284, 293–4, 303
Monrovia 66
Moorpark 49
Moscow 55, 296, 369, 403
as primate city 96
Mosul 58, 128, 298
battle of (2016–17) 18, 112, 270, 272, 286, 288, 343–7
coalition coordination in 270–1, 343
infrastructure 178, 281
mine-clearing 191, 228
NGO operations in 251, 253, 271, 272, 282, 317
noncombatants in 281, 282, 285, 287–9, 343
Mosul Dam 270
Mount Fuji 8, 190, 377, 378, 389
Mumbai 212, 279, 287, 391
2005 floods 102, 195–8
2008 terrorist attack 16, 17, 24, 113, 114, 170–7, 181, 182, 184, 197, 199, 222, 330, 393, 402
corruption 196, 198, 199
Covid-19 in 92, 105
disaster preparedness 172, 174, 175, 176, 177, 181, 197
disease 105
earthquake risk 118–19
flooding 12, 198, 199, 388
governance 92, 198–9
heat island effect 375
infrastructure 195, 199
Metropolitan Region Development Authority (MMRDA) 196, 197
pollution 199, 400
population 64, 357
slums 64, 102, 105, 196, 333
terrorism 172, 177, 216

transport 195, 196
see also Maharashtra State
Mungiki (criminal cult) 107–8
Munich 41, 337
Myanmar 296

Nagasaki 283
Nagoya 378
Nairobi 107, 108, 239, 312, 372, 374
slums 32, 98, 104, 106, 112
National Capital Region (Philippines) 47, 48
see also Manila
National Hurricane Center 222
NATO, *see* North Atlantic Treaty Organization
Netherlands 243, 267
New Delhi 173, 175
see also Delhi
New Jersey 194, 269, 358, 359, 382
New Madrid 363
New Orleans 226–7, 299, 331
and Hurricane Katrina 120, 147, 177, 191, 202, 203, 222, 224, 228, 250, 278, 326, 336
Newton, Paul 268
New York 144, 170, 320, 331, 344, 361, 367, 368, 369, 372, 379
as financial centre 40, 55, 89, 365
as primate city 55, 365
building codes 180, 379
citizen responses in 206, 225, 310–11, 359, 398
civil unrest 28, 368
communication infrastructure 131, 139, 154, 162, 178, 222, 229
community organisations 185, 211, 277, 382, 399, 400
corruption 110, 230
Covid-19 in 118, 134, 189, 206, 214, 224–5, 228–9, 231, 232, 310, 311, 342, 365, 366, 390, 398–400
data use 189, 383
disaster preparedness 15, 93, 124, 139, 144, 153, 162, 227–8, 342, 358, 363, 400
disaster response 15, 88, 124, 182, 183, 187, 210, 211, 212, 221, 222, 257, 400
disease 28, 118, 134, 189, 219, 390
economy 57, 89, 231, 325, 341–2, 357
electricity infrastructure 187, 224, 228, 299, 300
Fire Department (FDNY) 131, 154, 156
government failures 28, 124, 206, 222, 225, 358–9, 366, 398
health infrastructure 189, 224–5, 228–9, 230, 232, 344, 398
heat island effect 86–7, 286
heterogeneity of population 28, 62, 179, 183, 380
inequality 57, 94, 179, 232
influenza epidemic (1918–19) 118, 189, 226–7
infrastructure 212, 300, 348
intelligence-sharing 147, 368, 402
international engagement 93, 147, 232, 365, 368, 369, 402
interurban engagement 88, 92, 93, 147, 229, 402
law enforcement 58, 110, 185, 189, 194, 249, 277
lingua franca 144, 156, 247, 274
person on street in 210
population 28, 54, 94, 101, 179, 357, 388, 390
public information 222, 358–9, 361, 363, 399, 402
reliance on external supplies 214, 270
sanitation 28
sea-level rise 16, 331, 339, 356, 357, 388
security 92, 110, 182, 214
size 15, 55

slums 101
standardisation 88, 144, 379
State Defense Forces 124
supply chains 178, 214
survival of 40, 57, 58, 118, 124, 365
terrorism 232, 330
transport 9, 291, 300, 335, 358
urban flight 383
urbanisation 57, 170, 180, 372
vulnerable infrastructure 180, 224, 299, 330, 335, 337, 342
water supply 178, 214, 215
see also 9/11 terrorist attacks, Brooklyn, Hurricane Sandy, Manhattan, Red Hook
New York Police Department (NYPD) 15, 114, 154, 156, 182, 183, 194, 221, 226, 240, 249, 277, 369
New York Regional Plan Association 382
New Zealand 46, 259, 260
NGOs, *see* nongovernmental organisations
Nice 41
Nigeria 68, 312
corruption 69–70
Ebola crisis 63, 65, 66, 67, 68, 69, 154
population 312, 387
primacy of Lagos to 96
slums 68, 100, 328, 329
see also Lagos
nongovernmental organisations (NGOs) 10, 56, 104, 129, 159, 163, 196, 298, 305, 337
and African Ebola crisis 153
and security clearances 149, 253
and social media 130, 233, 265
coordination of 122, 206, 252, 255, 307, 384
displacement of local resources 90n.36
governmental engagement with 252–3, 263, 319, 333, 384, 386
inclusion in disaster preparedness 206, 252
inefficiencies of 253
influence on policymaking 372
information-gathering 136, 138, 209, 263
in Indonesia 327, 328, 331
in Iraq 253, 270–1, 280, 281, 343, 344, 346
in Somalia 200, 260
lack of in-country training 306–7
legitimacy of 251, 271, 303, 317
loss of trust in 274, 278, 317–18
military engagement with 271, 272, 274, 306, 346
misdirection of 130
need for urban expertise 228, 291, 292, 304, 315
use of local security 200, 260, 317
vetting of 251–2, 271
wasting of resources 233
when governments fail 153, 196
willingness to work with military 271, 272–3, 274, 344
withholding of aid 303
see also intergovernmental organisations
Noriega, Manuel 250
North America 39, 363, 386
see also United States
North Atlantic Treaty Organization (NATO) 130, 268, 355
Northern California Regional Intelligence Center 259, 271
Northern Ireland 137, 144, 145, 221, 333
see also Irish Republican Army
North Korea 190, 242, 305
Northridge earthquake, *see* Los Angeles—Northridge earthquake

Oakland 88, 207, 373
Okumura, Tetsu 193
O'Neill, James 156, 328
Operation Iraqi Freedom 147
Operation Protective Edge (2014) 95, 128, 187, 188
Operation Tomodachi ('Friendship') 6, 255
Oregon 363
Osaka 42, 357
Osaka–Kobe 124, 276, 311, 378
Osaka–Kobe–Kyoto 9, 49
see also Great Hanshin Earthquake
other-governors 56, 62, 99, 102, 103–11, 333, 385
Owens Lake 215
Owens Valley 86, 215

Pacific Northwest Seismic Network 189
Pacific Ocean 6, 12, 277, 403
Pacific Palisades 49
Pacific plate 8n.21
Pacific Rim 11–12
Pacific War 166
Pakistan 56, 97, 174, 175, 204, 315, 380, 387
Al-Qaeda in 17
disease 105
IDPs 29
slums 100
see also Karachi
Pakistani Lashkar-e-Taiba 113, 171, 184
Pakistani Taliban 106
Pakistan People's Party 315
Palestinian 128, 142, 326
see also Gaza, Hamas
Panama xiii, 217n.108, 250, 283
Panama disease 27
Papua New Guinea 259
Paris 28, 46, 83–4, 143, 339
2015 terrorist attacks 182, 192, 194, 205, 222, 228, 229, 261–3, 296, 330, 402
as primate city 96
Assistance Publique–Hôpitaux de Paris (APHP) 261, 262n.58
disaster response 182, 194, 222, 261–2, 402
heterogeneity of population 54n.117
medical system response 222, 228, 229, 230, 261–2
survival of 34, 36, 118
terrorism in 17
World War II 118, 354
Paris Agreement 367, 371
Partnership for New York City 399
Patil, Vishwas 174
Pausanias 43, 44
Perkins, David 163, 164, 258, 321, 323
person on the street 121, 125, 175, 185, 210, 253, 257
see also citizen, good Samaritans, strangers
Peshave, Amit 175
Phee, Molly 167
Philadelphia 17, 39, 118, 226, 370
Philippine Sea tectonic plate 8n.21, 22
Philippines, the 119, 211, 387
Armed Forces of 25, 217, 288, 292
government definition of Manila 47, 48
Islamist insurgency in 25, 58, 149, 184, 217, 288, 292
public information 138, 184
typhoons 119, 324
urban areas 26, 96, 216–17
see also individual cities and states
Pittsburgh 38, 227, 370, 400
Plato 40, 365
Plumridge, Cheryl 397
police 10, 85, 121, 125, 165, 312, 397
abuses by 62, 123, 127, 176, 334
and corruption 85, 103, 107, 112, 334

and other-governors 107, 109
and terrorism 114, 171–4, 176, 177, 193, 194, 218, 220, 221, 240, 272, 295
community engagement 58, 125, 184, 185, 260, 277
effectiveness of 85, 107
engagement with other agencies 79, 93, 193
equipping of 171, 175, 194, 198
failures of 171–2, 173, 177, 198, 283
incompatibility with other agencies 70, 88, 154–5, 193, 259, 268
information collection 93, 125, 137, 180
levels of 49, 56, 79, 107
London 52, 369
Los Angeles 56, 70, 88, 130, 188, 277
'mission command' 156, 159
Mumbai 114, 171–5, 177, 197
New York State Defense Forces 124
San Francisco 259
Solomon Islands 213, 318
Tokyo 193–4, 205, 272
training 85, 93, 155, 174, 177, 197, 205, 216, 218, 291, 333
trust in 112, 127, 136, 176, 274, 275, 318, 329
use of citizen knowledge 79–80, 125, 137, 176, 180, 240, 260, 272
see also first responders, New York Police Department
policing 31, 58, 72, 104, 239, 250, 253, 258
coordination of 56, 79, 255, 314–15
dangers of urban 77, 78, 159, 290
in slums 62, 103–5, 107, 328–9
predictive 130, 176, 180, 188
urban 58, 75, 137, 216, 249, 319, 333–4, 361
see also first responders, law enforcement, security
Port of Los Angeles 49, 367
Portugal 390
primate cities 42, 48, 55, 95–8, 114, 123, 365
Cairo as 96
Jakarta as 48
Lagos as 96
London as 95–6, 114, 365, 366
Mexico City as 123
Moscow as 96
New York City as 55, 365
Paris as 96
Tokyo as 42, 96
Puerto Rico 53

Ramadi 281, 343
Red Hook 57, 94, 178
Regional Assistance Mission to Solomon Islands (RAMSI) 212–13, 259–60, 264, 318
Republic of China, *see* Taiwan
Republic of Congo 100
Republic of Korea, *see* South Korea
Revolutionary Armed Forces of Colombia (FARC) 90
Richards, David 269
Rio de Janeiro xi, 75, 102, 103, 104, 106, 206, 232, 253, 333, 365, 372, 381
Rizal 47
Rockaway Beach Surf Club 211
Rodin, Judith 203, 319
Roman Empire 17, 37, 38–9, 44, 47, 282, 286
Romania 311
Rome 17, 34, 36, 39, 44, 54, 59, 144, 320
rule of law 85, 212, 249, 253
undermining of 260, 334
see also law, law enforcement

Russia 78, 96, 130, 150, 214, 242, 362, 382
see also Moscow, Soviet Union, Stalingrad

Sadik-Khan, Janette 18, 335
Saito, William 5
San Andreas Fault 12
San Diego 88
San Francisco 318, 387, 401
community groups 373
Covid-19 in 225
earthquake risk 335
emergency response 259, 263, 272, 373
emergency standards 88, 93
influenza epidemic (1918–19) 226
Police Department 259
vulnerable infrastructure 335
see also Bay Area, Oakland
San Francisco–Oakland–San Jose 207, 373, 401
San Jose, *see* San Francisco–Oakland–San Jose
Santa Monica 49, 211, 217
São Paulo 56, 62, 106, 107, 365
Sarajevo 142, 143, 355
SARS, *see* severe acute respiratory syndrome
Sawyer, Patrick 64–7, 185, 263, 383
Seattle 58, 188, 225, 382, 387
security 92, 93, 94, 159, 164, 172, 218, 253, 380
and corruption 107, 127
and information-gathering 145, 209
and terrorism 173, 175, 177
balancing with cost 187
challenges in megacities 72, 232, 336, 368, 370, 393
challenges in urban areas 31, 77, 186, 281, 360, 388, 397
clearances 149, 253
data 134, 368
food 312, 337
importance of key cities 46
inadequacy of 127
national 242, 273n.84, 381
'nimbyism' 220
non-lethal tactics 218–19
of aid providers 136, 260
other-governors' provision of 105, 107
preventative 80
private 182, 201, 260, 274, 381
risks of slums 102, 103, 105
trust in providers of 127, 201, 274
see also first responders, law enforcement, policing
Sejong 388
Senegal 368, 369
Serbia 143
severe acute respiratory syndrome (SARS) 105, 225, 347, 364
Shanghai 30, 34, 54n.117, 338–9, 350, 365, 366, 369, 373, 391
1937 conflict 283–5
immigration 376
natural disasters 239, 339, 356
population 96, 286, 376
water pollution 263
Sheehan, Michael 240
Shinseki, Eric K. 396
Sierra Leone 65, 90, 240, 265, 303
signage 23, 121, 143, 144
see also language
Simi Valley 49
Singapore 365, 367, 387
as financial centre 55, 56, 89, 374, 386
authoritarian governance 334, 338, 373
Bukit Ho Swee development 329, 330, 334
Covid-19 in 363
food supply 302
heat island effect 362

organised crime 329
population 51
public housing 330, 334
urban area 51, 147
water supply 375
Skates, Jesse 272–3, 287
Snow, Dr John **132**–3, 246
Solomon Islands 259, 260, 318
see also Regional Assistance Mission to Solomon Islands
Somalia xiii, 29, 85, 143, 158, 217n.108, 303
NGOs in 200, 260
see also Mogadishu
Sommer, Al 318–19
South America 101
South Asia 365
South China Sea 242
South Korea 7, 54n.117, 61, 72, 248, 305, 365, 376, 388
Soviet Union 39, 82, 185
see also Russia, Stalingrad
Spain 262, 279, 363
Spanish flu, *see* influenza epidemic
Stalingrad 283, 293
standardisation 88, 93, 358, 372–3
Standardized Emergency Management Systems 93
standards 228, 252–3, 380
accreditation 224, 372–3
emergency response 228, 231, 336, 358, 380
for buildings 12, 23, 80, 190, 282, 317, 324, 330, 379–80, 384, 385
for emergency equipment 88, 93, 224
social 28, 295, 371, 372
strangers 10, 57, 108, 196, 306
see also first responders—*first*
Strock, Carl 322
sub-Saharan Africa 30, 32, 68, 100, 383, 390, 392
see also individual countries
Sudan 29, 387
Sweden 7, 266, 303, 311
Swiss Re 8
Switzerland 122
Synnott, Hilary 268, 269
Syria 26, 29, 129, 146, 270, 296, 301
see also individual cities

Taiwan 225, 242, 284, 363, 364
Takemoto, Ryuji 33, 253
Taliban 17, 106, 200, 317
Tampa–St Petersburg 54
Tangerang 48
Tanzania 100, 185, 302, 387
see also Dar es Salaam
Team Rubicon 210, 278
Tel Aviv 58, 60, 187
Templer, Gerald 269
terminology 42, 45, 268
see also language, signage
terrorism 10, 114, 184, 214, 365
and police 114, 171–4, 176, 177, 193, 194, 218, 220, 221, 240, 272, 295
citizen role in preventing 80, 176, 182, 221, 240, 261, 272
counter organisations 147, 173, 176, 240
difficulty of finding culprits 76, 80, 149
in Kenya 106, 239–40
in London 17, 113–14, 172, 221, 240, 330
in megacities 17, 112–15, 182, 393
in Moscow (2002) 296
in Mumbai 172, 177, 216
in Mumbai (2008) 16, 17, 24, 113, 114, 170–7, 181, 182, 184, 197, 199, 222, 330, 393, 402
in New York 232, 330
in Paris (2015) 17, 182, 192, 194, 205, 222, 228, 229, 261–3, 296, 330, 402

in Tokyo (1995) 10, 16, 120–1, 124, 148, 149, 180, 192–4, 205, 228, 229, 237, 272, 305, 311, 330, 361
in United States 272, 295
lessons from 171, 172, 182, 194, 228, 232, 402
medical response to 194, 219, 228–9, 261
megacities as targets 97, 115, 330
multilocation attacks 17, 173, 182, 183, 222, 240, 393, 402
preparedness 182, 183, 194, 204, 216, 218, 228, 386, 389
prevention 93, 182, 218, 244
response rehearsals 177, 194, 204, 216, 221
response to 197, 199, 222, 261, 365, 386
role of media 114, 115, 174–5
urban advantages for 72, 77, 113, 149, 296, 330
urban victims of 113
use of data in preventing 147, 244
use of data in response 133, 140, 147
see also 9/11 terrorist attacks, Boston—Marathon bombing *and individual groups*
Terrorism Early Warning Group (TEWG) 147, 201–2, 263, 373
Tet Offensive 158, 235, 258
Texas 18, 336, 372
see also individual cities
Thailand 96
see also Bangkok
Tianjin 50, 357
Tokyo 57, 61, 144, 270, 366
1923 earthquake 12, 21–3, 38, 42, 61, 248
as Edo 38
as primate city 42, 96
building design 22, 23, 324, 334, 385
citizen rescues 10, 120–1, 260
communications 184, 233, 352, 361
Covid-19 in 220, 230, 241–2, 365
disaster information 11, 122–3, 180, 265, 300, 359
disaster planning 11, 122–3, 265, 300, 324
disaster preparedness 11, 23, 190, 202, 206, 260, 357, 384, 402
disaster risk 8, 12, 89, 121, 190, 378, 384, 389
disaster scenario 1–6, 7
economy 7, 38, 55, 57, 89, 365
emergency services 193–4, 205
fires in 12, 21, 22, 38, 139, 221, 324
flood risk 180, 202, 349–50, 356
government effectiveness 11, 124
Great East Japan Earthquake and tsunami (2011) 9, 15, 69, 124, 242, 352, 401
heat island effect 86
homogeneity of population 54n.117, 62, 183
infrastructure 11, 84–5, 178, 214, 237, 349
Mount Fuji eruption (1707) 377
neighbourhood committees 185
Olympic Games planning 84
population 7, 46, 60, 71, 284,
population movement 61, 375–6, 383
postwar population 38
sea-level rise 356
seismic vulnerability 8, 12, 13, 21, 23, 118–19
size of 7n.16, 8, 11, 38, 49, 55, 79, 96, 347
terrorist attack (1995) 10, 16, 120–1, 124, 148, 149, 180, 192–4, 205, 228, 229, 237, 272, 305, 311, 330, 361

transportation 8–9, 33, 42, 61, 84, 237, 401
urban governments 11, 48, 122, 324
World War II 38, 118, 164–5, 265, 283, 289
Tokyo Electric Power Company Holdings (TEPCO) 89n.34, 171
Tokyo–Yokohama 8, 49, 55
Tonga 259
Toronto 386–7, 402
Trump, Donald 130, 256, 374
Tunisia 280
Türkiye 13, 214, 403
see also individual cities
Twitter 3, 128, 129, 130, 184, 348, 361
Typhoon Ketsana (aka Tropical Storm Ondoy) 119

Uganda 302, 387
Ukraine xi, 16, 37, 286
UN-Habitat 98
United Kingdom (UK) 192, 223, 246, 356
and Israel 128
control of Hong Kong 56, 165–6, 178, 220
control of India 64
control of Malaya/Singapore 367
economy 13, 57–8, 325
food supply 301, 302
influenza epidemic (1918–19) 118
London as primate city of 95–6, 114, 365, 366
population 28, 31, 347
terrorism 262
urban areas 46, 95, 302
see also British Air Force, British Army *and individual cities*
United Nations (UN) 13, 252, 369, 371
and African Ebola crisis 65
and disaster response 209, 307, 372, 381, 385–6
and Iraq 191, 252, 270–1, 281, 343, 345–6
and sea-level rise 347
and urbanisation 79, 80, 86, 110, 288
and Yemen 90, 303
in Haiti 249
in Somalia 278–9
peacekeeping 204
United Nations Children's Fund (UNICEF) 265
United Nations High Commissioner for Refugees (UNHCR) 271, 272, 281, 282
United Nations Mine Action Service 191, 346
United Nations Office for the Coordination of Humanitarian Affairs 343
United Nations Relief and Works Agency 326
United Nations Resident and Humanitarian Coordinator 271
United Nations Resident and Humanitarian Coordinator for Yemen 90, 303
United States (US) 60, 101, 153, 184, 245, 246n.23, 287, 311, 402
aid to Somalia 303
and African Ebola crisis 148, 153–4, 256, 269
and China 150, 242
and climate change 95, 367
and Iran 242
and Israel 128, 129
and Jamaica 103
and North Korea 242
and Russia 150, 242
assistance to Fukushima disaster 255
at Rio Olympics 102, 253

Centers for Disease Control and Prevention (CDC) 65, 94, 153
civil unrest 382
Coast Guard 6, 203, 243, 257
community action 192, 277
Congress 114, 367
corruption 374
Covid-19 in 69, 92, 118, 206, 225, 232, 241, 242, 256, 265, 336, 352, 357, 363, 366, 390, 398
Department of Defense 149, 251, 397
Department of Health 336
Department of State 102, 110
diplomats 153–4
disaster response 54, 318, 335, 375
disease 39, 118
drug war 103
East Coast blackout (2003) 187
economy 56
electoral system 371–2
embassy attack (Kenya) 239–40
food production 395
foreign aid 298, 313, 325, 327, 355
Government 147, 148, 298, 327, 375, 397
government failures 92, 118, 241, 336, 366, 398
health data 133
health infrastructure 170
heatwaves 94–5
heterogeneity of population 402
in Afghanistan 269, 272, 293, 353
inequality 179, 350, 352
influenza epidemic (1918–19) 118, 225, 226
in Iraq 252, 268, 270, 396, 397
intergovernmental cooperation 401
international engagement 93
invasion of Grenada (1983) 267–8, 274
in Vietnam War 158, 235–6, 258, 306, 353
law enforcement 249, 277, 295, 298
media 129–30
migration 71, 402
misinformation 69, 118, 130, 150
mistakes in Afghanistan 127, 140, 200, 336, 347
mistakes in Iraq 268–9, 270–1, 315, 322, 325, 396
National Defense University 273n.84
national security 215, 242
National Weather Service 269
Office of Naval Intelligence 110
Pacific Command 169
population 13, 14, 28, 55, 100, 347
poverty 179
public transport 9, 57, 84
reconstruction attempts in Iraq 111, 140, 200, 250, 313, 315, 321–2, 325, 332, 336, 338, 353, 358, 396
standardisation 88
state governments 367, 374
terrorism 272, 295
urbanisation 13, 15, 40, 44, 46, 53, 57, 367, 371–2, 402, 403
see also 9/11 terrorist attacks, Hurricane Katrina, Hurricane Sandy *and individual cities and states*
United States Agency for International Development (USAID) 145, 153
Community Stabilization Program in Iraq 110
in Iraq 111

United States Army 46, 128, 159, 293, 385
Africa 153
and urban combat 159, 216, 287, 293
Center for Army Lessons Learned 256
Corps of Engineers 322, 399
doctrine 158, 216
in Afghanistan 200
in Iraq 163, 205, 272, 315, 321, 322, 325
in Panama 250
in Somalia 19, 158, 204, 279, 284
in Vietnam 306
World War I 305, 306
United States Marine Corps 49, 70, 77–8, 88, 143, 158, 268, 288, 293, 396
in Iraq 77–8, 396–7
United States military 150, 156, 202, 207, 256, 290, 305
101st Airborne Division 256, 272
and contractors 274, 275
and Ebola crisis 269
and NGOs 154, 251, 269, 270, 280, 343, 385
civilian relations in Iraq 201, 274, 275, 280
in Iraq 87, 110–11, 127, 128, 218, 259, 268–9, 271, 274–5, 280, 343, 396, 397
in World War II 251
support to Japan 6, 22, 255
United States Navy 22, 242, 243, 257
SEALs 174
United Task Force (UNITAF) 278
Uribe Vélez, Álvaro 89
Utah 383, 389, 390

Venice 38, 81
Viet Cong 236
Vietnam 158, 225, 235–6, 242,
United States in 158, 235–6, 258, 306, 353
see also Ho Chi Minh City, Tet Offensive
Vietnamese 326, 327
Villaraigosa, Antonio 367
Virginia 231, 244, 363, 379
von Clausewitz, Carl 188n.40, 242, 273, 295

Walmart 278
Warr, Nicholas 158–9
Warsaw 320
Washington, DC 117, 143, 154, 288, 387
Washington State 363, 382
see also Seattle
West Africa 68, 368
Ebola crisis (2014) 64, 65, 67, 148, 153, 240, 245, 256, 264, 269, 279, 318
Williams, Darryl 153–4
World Bank 26

Yemen 90, 303
Yokohama 8, 22, 49, 55
see also Tokyo

Zaken, Nachum 134
Zimbabwe 302
Zinni, Anthony C. 396

This text is taken from *Come Hell or High Fever: Readying the World's Megacities for Disaster*, by Russell W. Glenn, published 2023 by ANU Press, The Australian National University, Canberra, Australia.