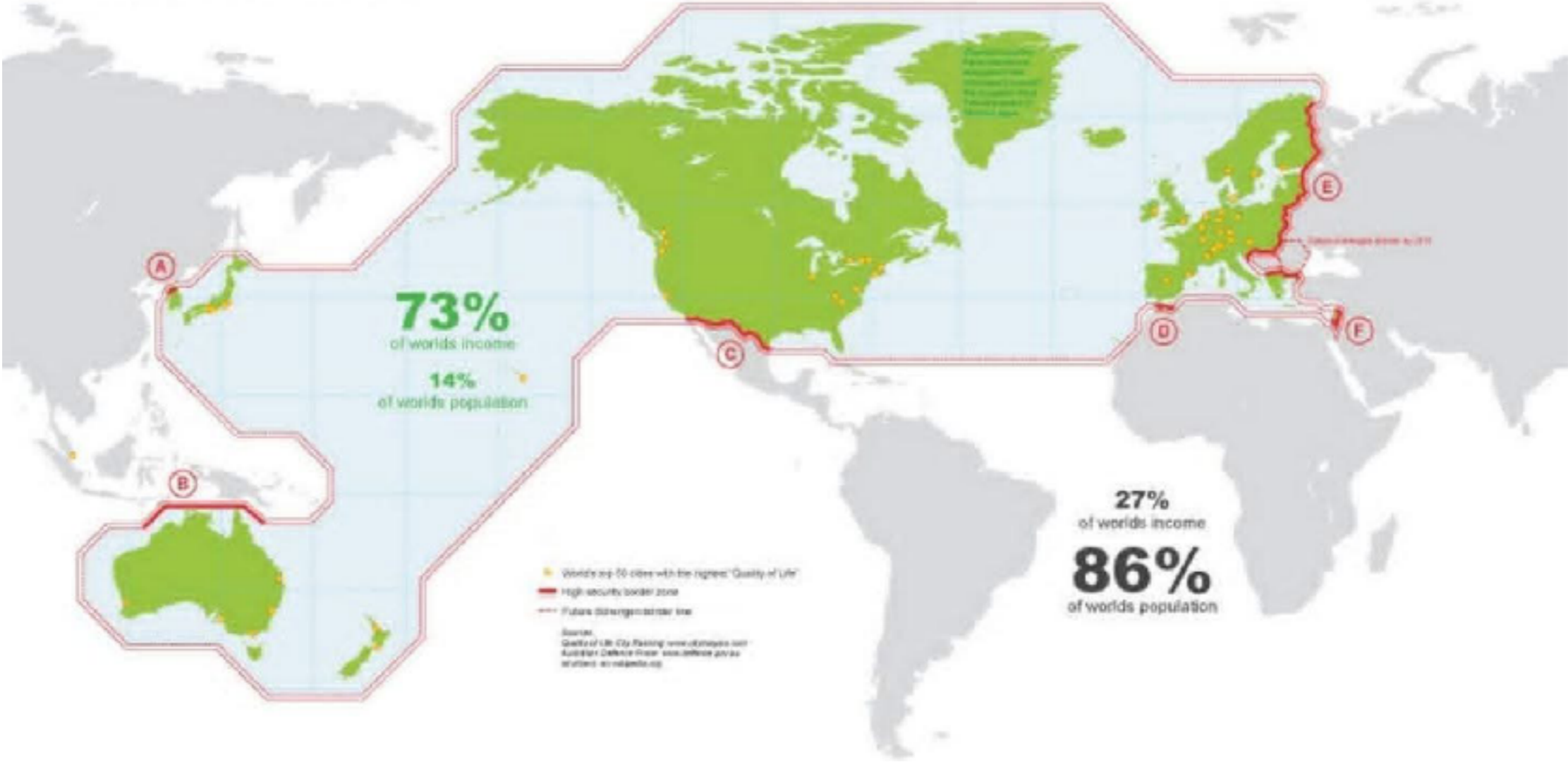


1.3 Global population (10,000 B.C.E.–present)

Source: Bolt, J., and J. L. van Zanden. 2013. "The First Update of the Maddison Project: Re-Estimating Growth Before 1820." *Maddison Project Working Paper 4*.

Walled World



Lo Sviluppo Sostenibile e i tre sistemi complessi:

- 1) l'economia mondiale,
- 2) la società globale
- 3) l'equilibrio ambientale.

1972

Club di Roma: “I limiti della crescita”

1980

World Conservation Strategy:

Living Resource Conservation for Sustainable Development

Gro Burtland Harlem. 1936 - ;



Conferenza sull'Ambiente di Rio nel 1990

Dichiarazione finale:

“Lo sviluppo non deve compromettere i bisogni delle generazioni future”.

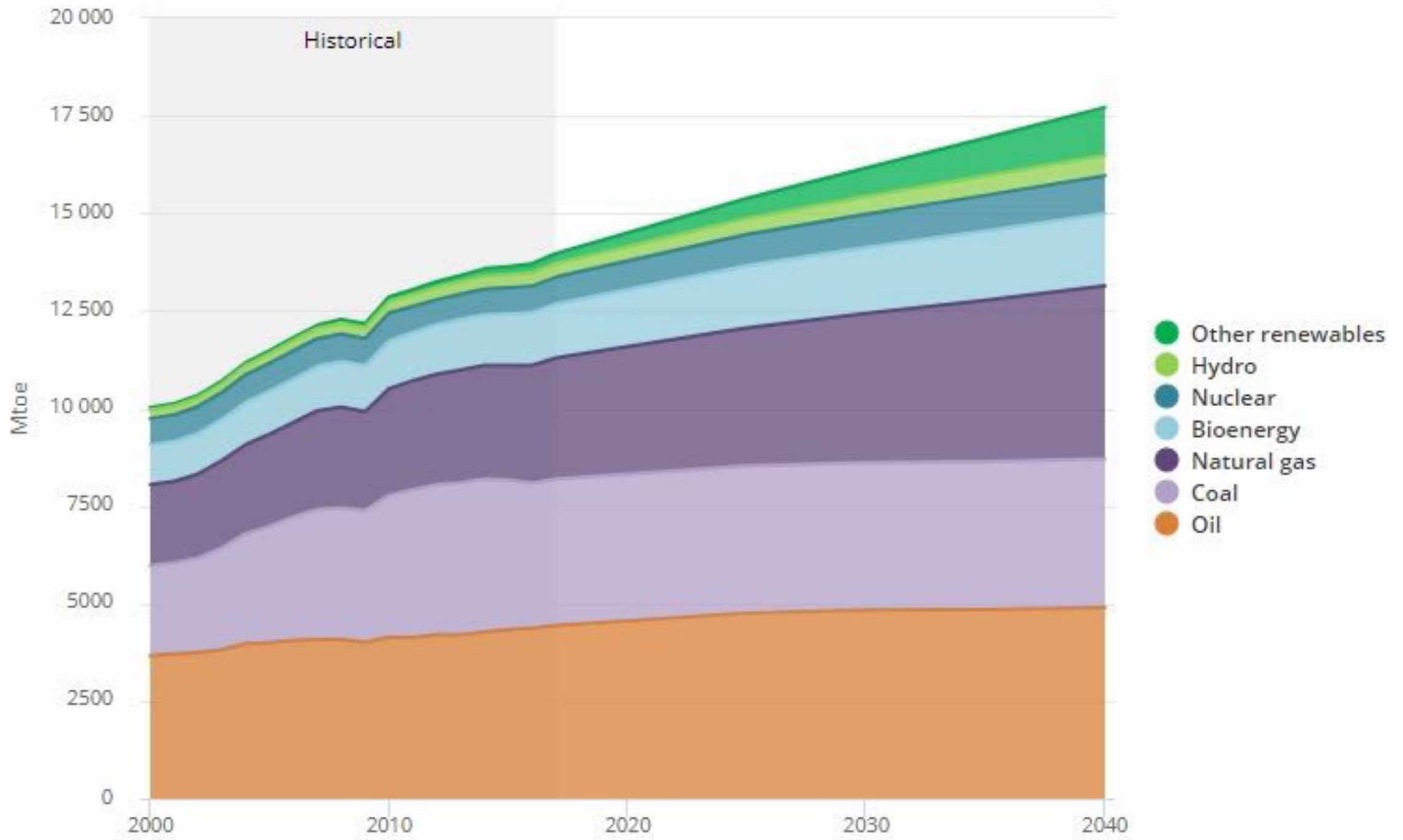
I modelli antropologici dell'Umanità

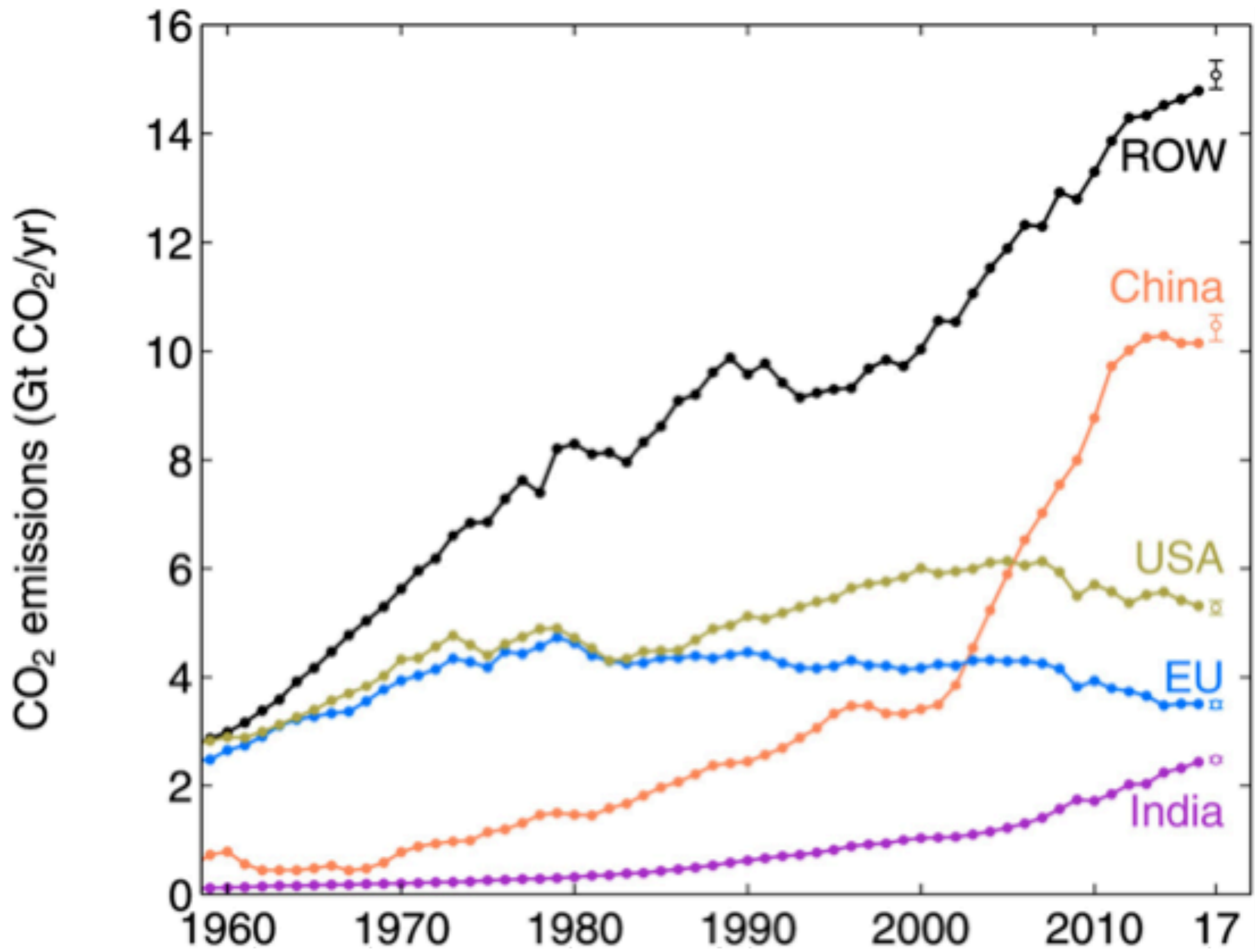
1) Animismo

2) Totemismo

3) Analogismo

4) Naturalismo





Top 3 predictors that positively affect land subsidence rate

Ground Water Abstraction

Seismic Hazard

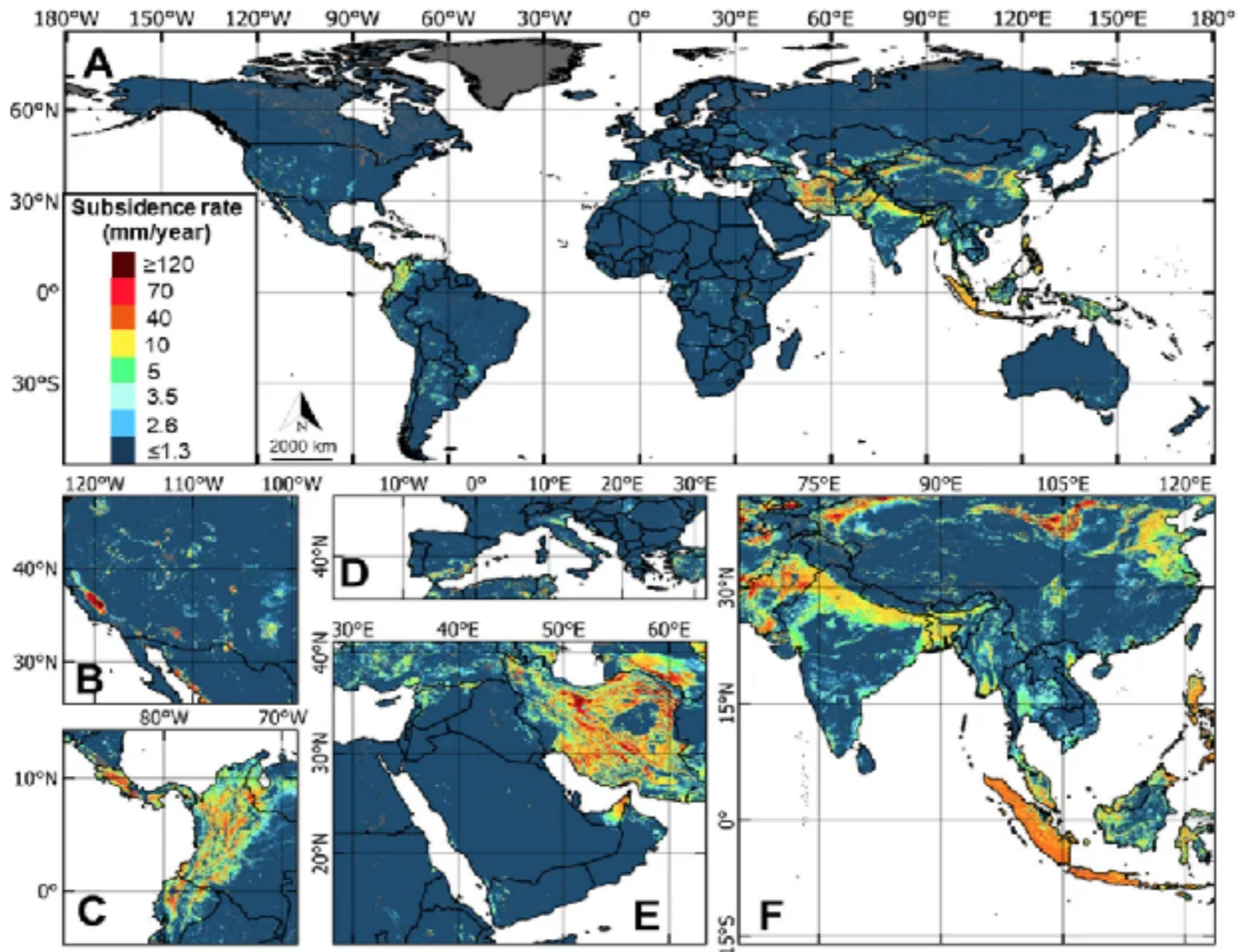
Clay Content

Countries with largest subsidence extent, at > 5 mm/year cutoff (1000 km²)

China	1043
Indonesia	844
Iran	791
India	671
Pakistan	374

Countries with greatest affected population (Million)

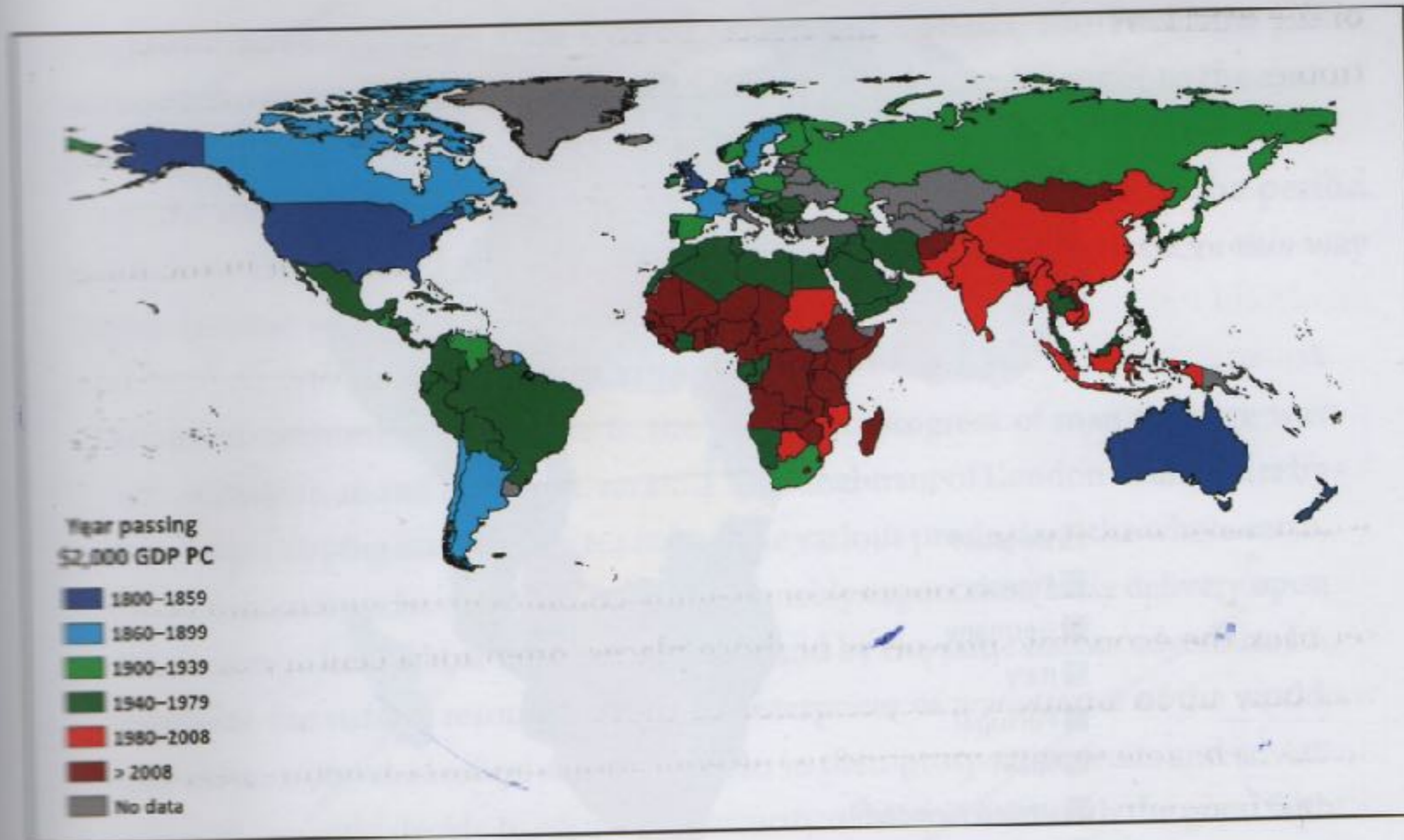
India	633
China	368
Indonesia	213
Pakistan	145
Bangladesh	137





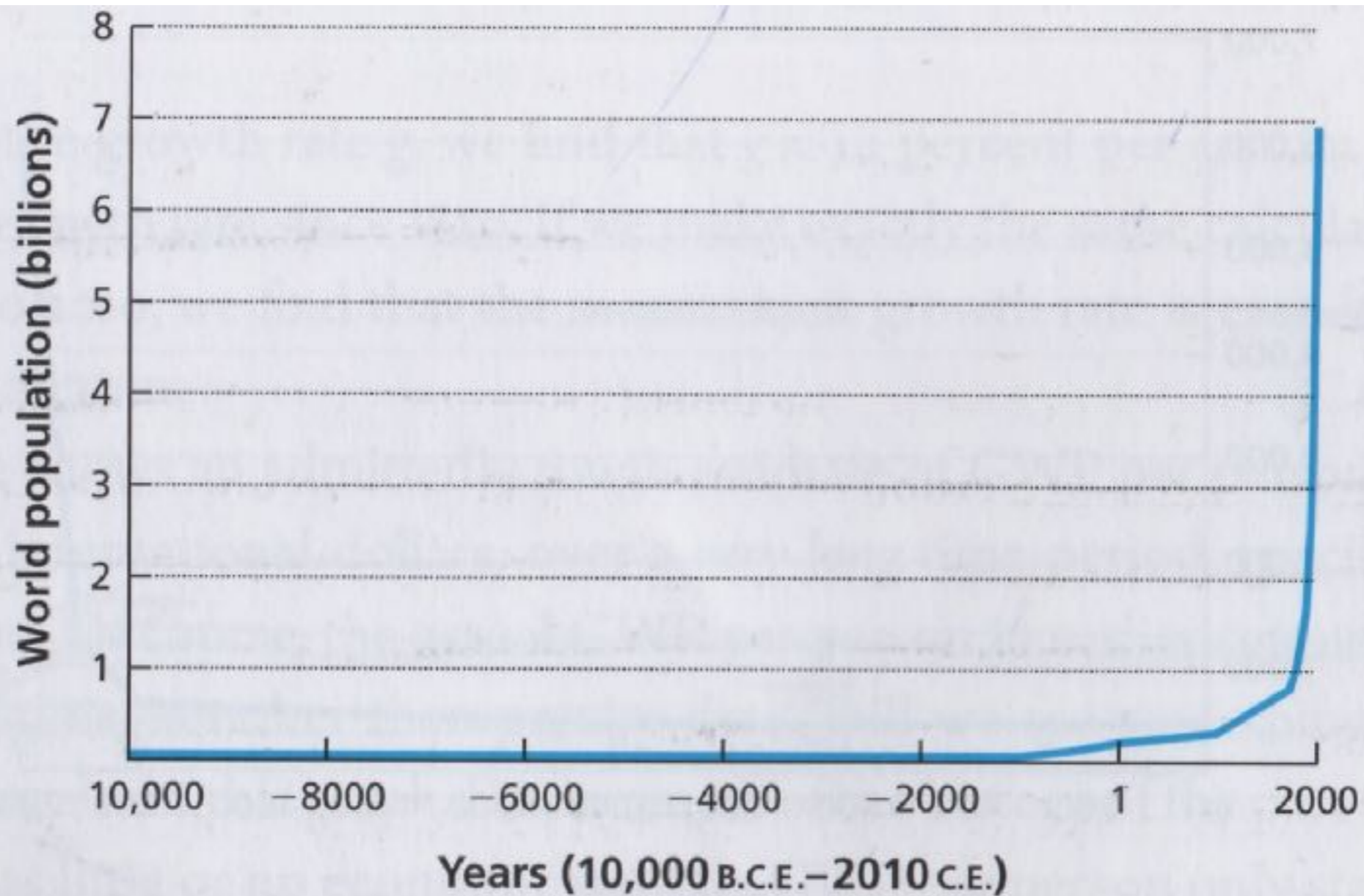






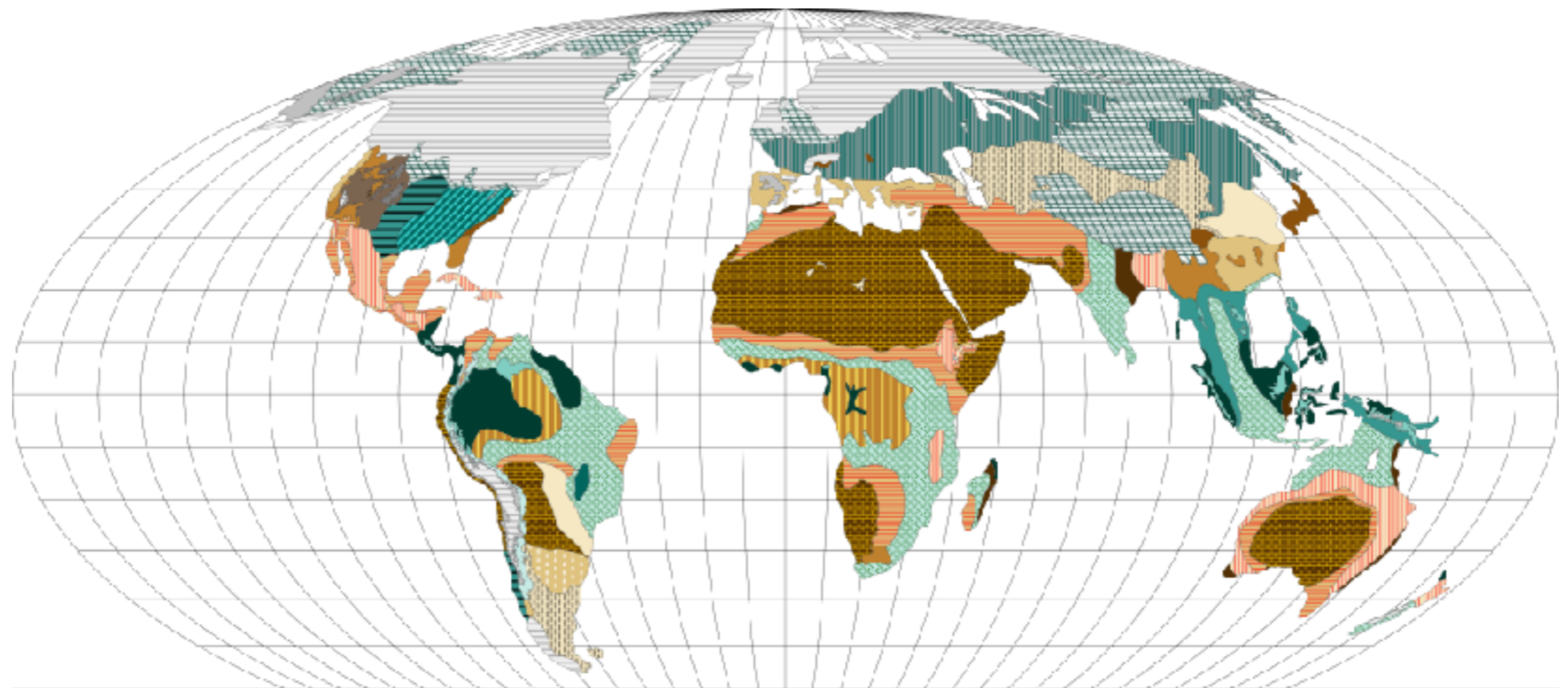
1.3 Year (or projected year) passing \$2,000 GDP per capita

Source: McCord, Gordon, and Jeffrey Sachs. 2013. "Development, Structure, and Transformation: Some Evidence on Comparative Economic Growth." NBER Working Paper No. 19512. Washington, DC: National Bureau of Economic Research.



1.3 Global population (10,000 B.C.E.–present)

Source: Bolt, J., and J. L. van Zanden. 2013. "The First Update of the Maddison Project: Re-Estimating Growth Before 1820." Maddison Project Working Paper 4.



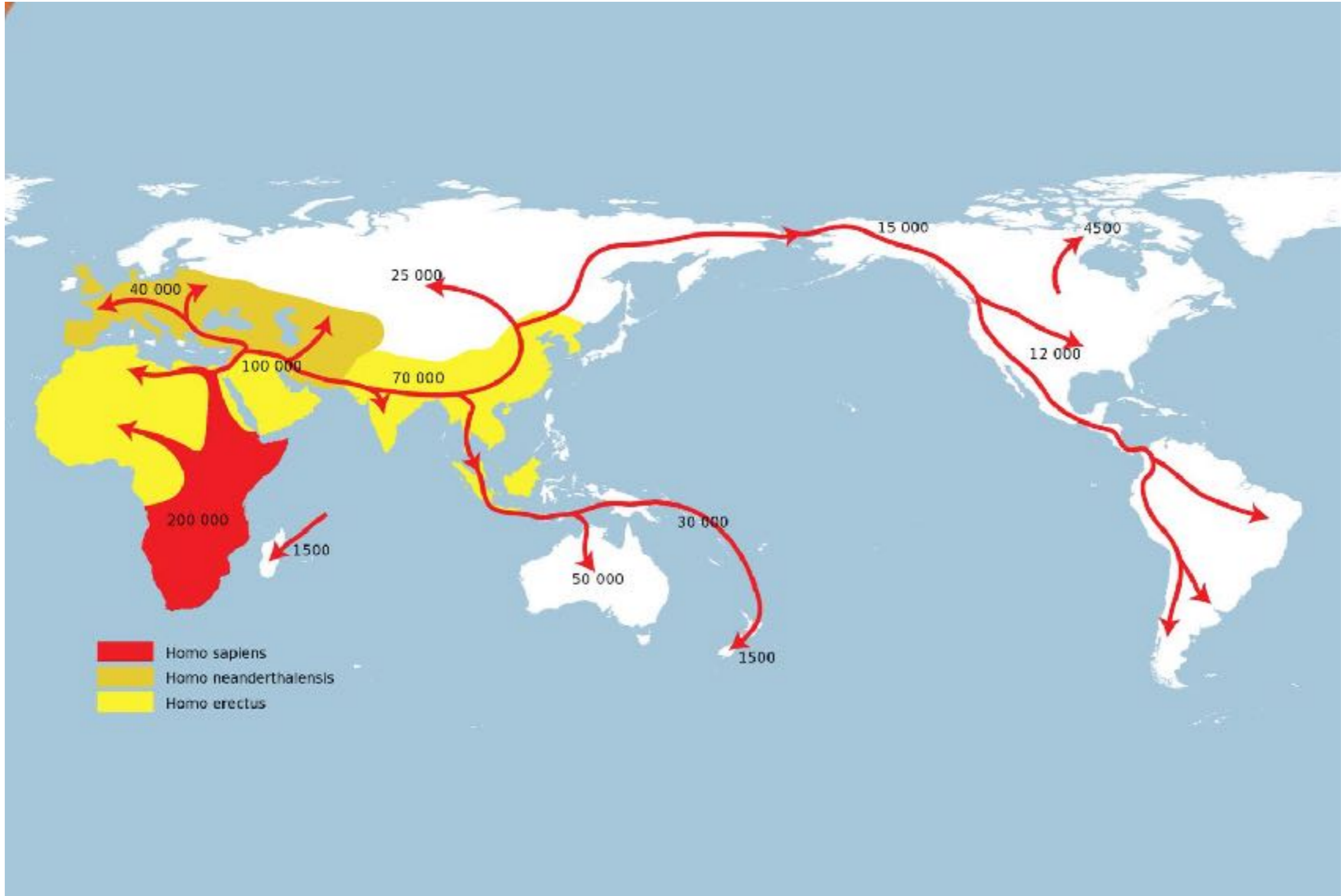
Last Glacial Maximum Vegetation

 Tropical rainforest	 Tropical grassland	 Open boreal woodlands	 Temperate desert	 Subalpine parkland
 Monsoon or dry forest	 Tropical extreme desert	 Semi-arid temperate woodland or scrub	 Temperate semi-desert	 Dry steppe
 Tropical woodland	 Savanna	 Tundra	 Forest steppe	 Temperate steppe grassland
 Tropical thorn scrub and scrub woodland	 Broadleaved temperate evergreen forest	 Steppe-tundra	 Montane Mosaic	 Main Taiga
 Tropical semi-desert	 Montane tropical forest	 Polar and alpine desert	 Alpine tundra	 Ice sheet and other permanent ice

Source: http://intarch.ac.uk/journal/issue11/rayadams_toc.html

Mid-wide project on map generated by @lucoluis from shapefile published by Ray, N. and J. M. Adams, 2001
 "A GIS-based Vegetation Map of the World at the Last Glacial Maximum (25,000-15,000 BP)", Internet Archaeology 11.

(CC BY 3.0)

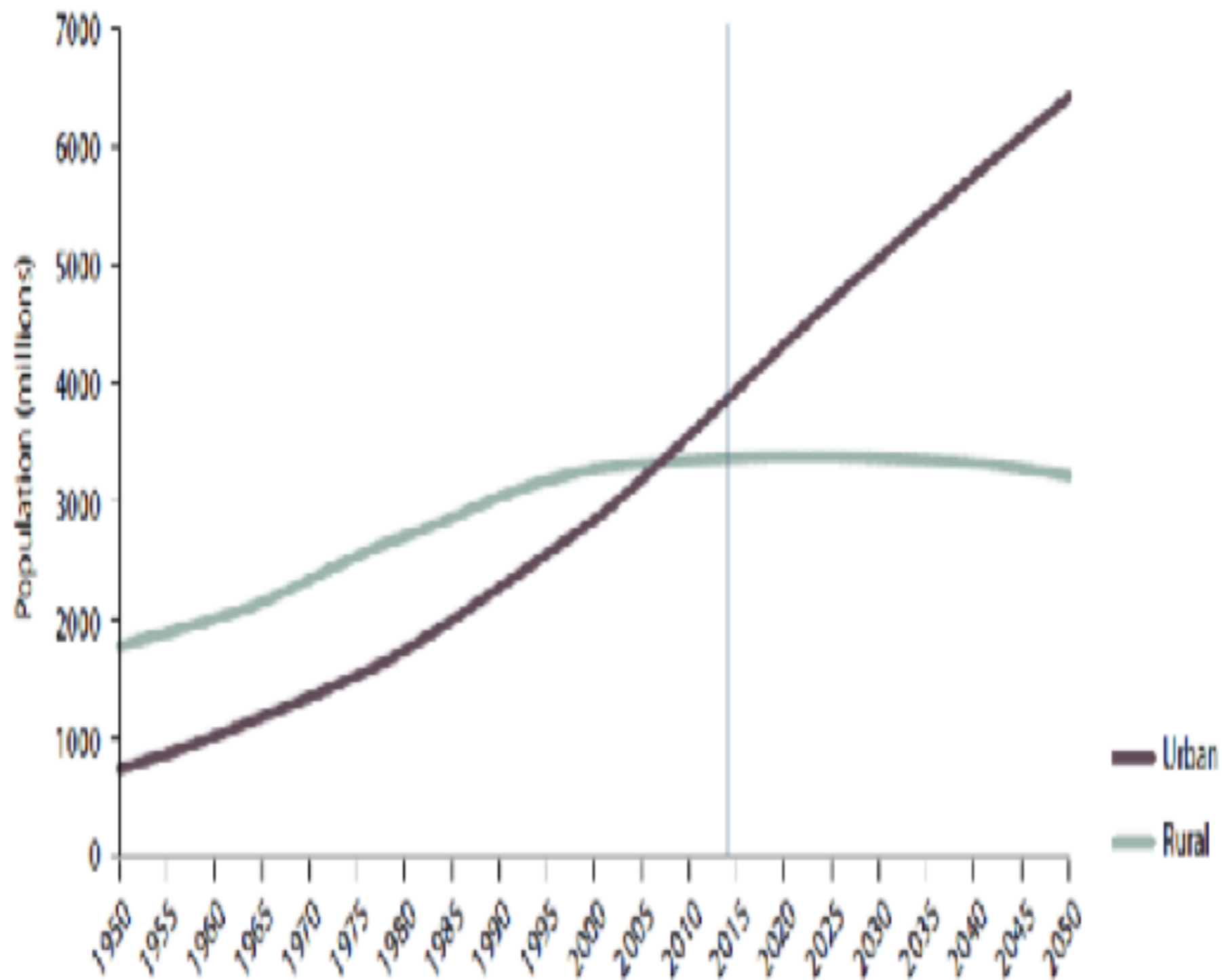


Uomini dell'Era glaciale. Siti archeologici dell'Homo sapiens in Europa.



Venere di Willendorf 43.000 a.C.?





Neo malthusiani pessimisti

Paul R. Ehrlich,

Lester Brown

Pierre François Verhulst

Malthusiani ottimisti

Ester Böserup

Julian Simon

fasce età	Area A (paesi economicamente progrediti)			Area B (paesi emergenti)			Area C (paesi a sviluppo minimo)			Mondo
	< 15 anni	15-65	> 65 anni	< 15 anni	15-65	> 65 anni	< 15 anni	15-65	> 65 ann	totale:
Nel 2005	207	823	186	1.323	2.941	267	318	423	25	6.516
Nel 2050	189	731	325	1.147	4.008	1.048	491	1.131	120	9.191*
Incremento	-18	-92	+139	-176	+1.067	+781	173	+708	+95	+2.675
<u>Increm.%</u>	-0,8%	-11%	+75%	-13%	+36%	+290%	+54%	+167%	+380%	+40%
% 2005/tot.	17%	31%	15%	29%	65%	6%	41%	55%	3%	
% 2050/tot.	15%	21%	26%	18%	64%	17%	28%	65%	7%	

Area	1850		1900		1950		2000		2050		
	milioni	%	milioni	%	milioni	%	milioni	%	milioni	(*)	%
Mondo	1262	100	1650	100	2521	100	6055	100	9545	9550	100
Asia	809	64.1	947	57.4	1402	55.6	3683	60.8	5459	5164	57.1
Africa	111	8.8	133	8.1	221	8.8	784	13.0	2020	2393	21.8
America Latina	38	3.0	74	4.5	167	6.6	519	8.6	729	781	7.9
Europa	276	21.9	408	24.7	547	21.7	729	12.4	757	709	7.5
<u>N. America</u> (Usa+Canada)	26	2.1	82	5.0	172	6.8	310	5.1	484	446	4.8
Oceania	2	0.2	6	0.4	13	0.5	30	0.5	55	56	0.5

Numero medio di figli per donna nel quinquennio 2000-05.

1,6 nei **Paesi Sviluppati**, percentuale media tra:

1,3 in Giappone; 1,4 in Europa centro-occidentale; 1,6 in Russia, Europa balcanica, Canada e Oceania; 2 negli Usa;

2,9 nei **Paesi in Via di Sviluppo**, media tra:

1,7 in Cina; 1,9 nel resto dell'Asia orientale, 2,5 in America Latina; 3,2 nell'Asia meridionale; 3,5 nell'Asia occidentale; 5,0 in Africa

Numero medio di figli per donna previsti nel 2045-50

1,8 in tutti i **Paesi Sviluppati**, con oscillazioni minime (0,1) tra di essi;

2,1 nei **Paesi in Via di Sviluppo**, percentuale media tra:

1,9 in America latina, Asia orientale e meridionale;

2,0 in Asia occidentale;

2,5 in Africa.



pop.(milioni)	1900	1950	1960	1970	1980	1990	1995	2000	2010	2025	2050
Francia	39	41,8	45,7	50,7	53,9	56,8	58,0	59,2	63,2	68,0	73,2
Italia	33	46,3	49,5	53,3	56,2	56,8	57,0	56,9	60,5	61,3	60,0
Egitto	<u>ca</u> 8	21,5	28,0	36,3	44,9	56,3	61,1	66,1	78,0	97,0	121,8
Etiopia	4	18,1	22,1	28,4	35,2	48,0	57,0	66,0	87,0	124,5	187,5

Indicator

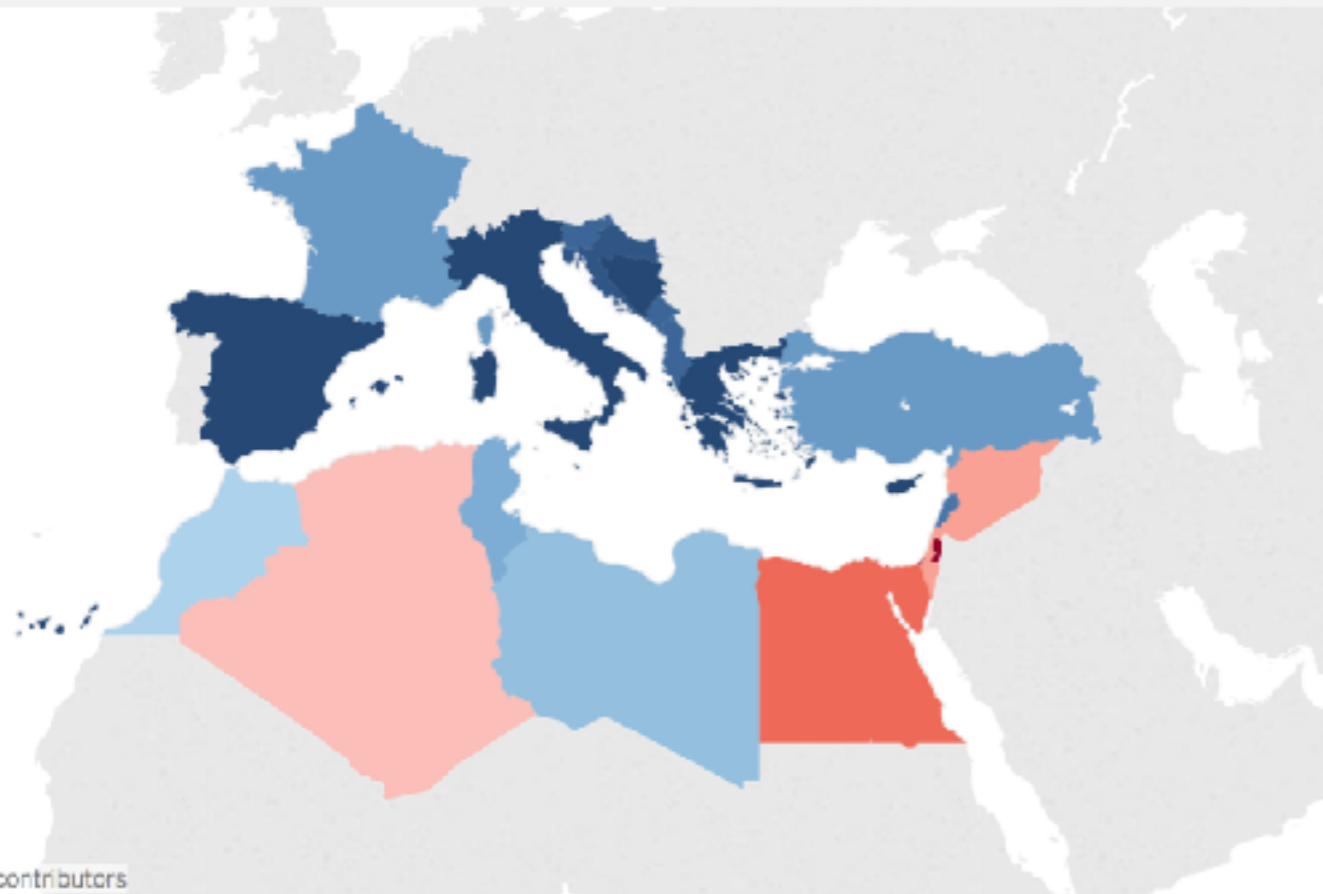
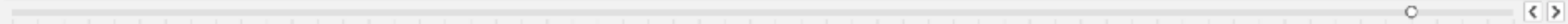
Fertility rate, total (births per woman)

Data Points

(All)

Year

2015

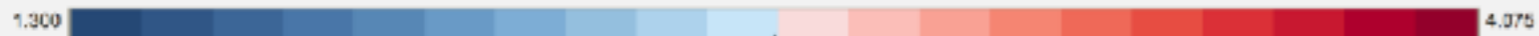


Fertility rate, total (births per woman)

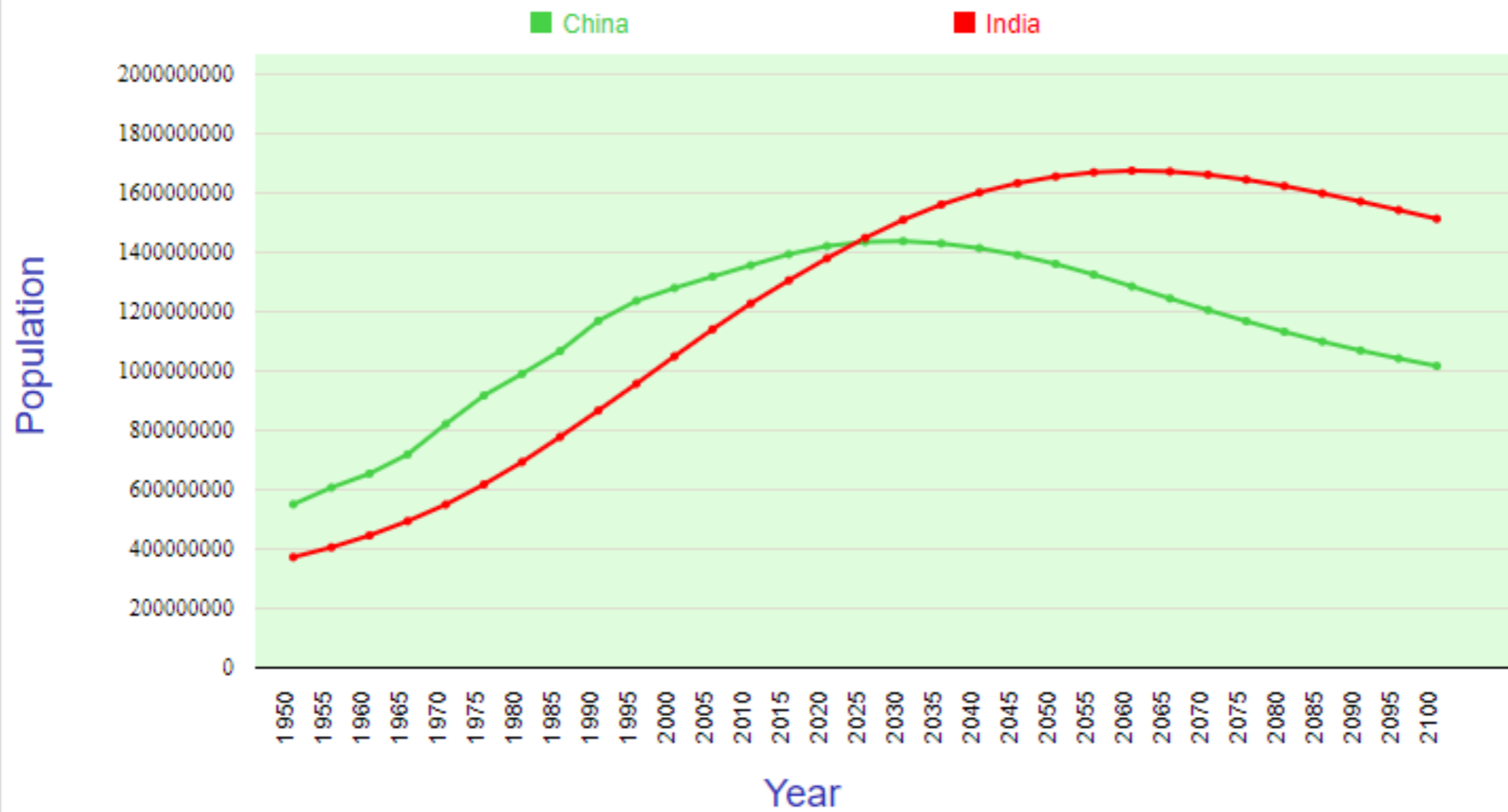
Palestinian Territories	4.075
Egypt	3.311
Israel	3.090
Syria	2.966
Algeria	2.839
Morocco	2.526
Libya	2.312
Tunisia	2.223
Turkey	2.072
France	2.010
Lebanon	1.720
Albania	1.714
Montenegro	1.677
Slovenia	1.580
Croatia	1.460
Malta	1.420
Italy	1.370
Cyprus	1.350
Bosnia and Herzegovina	1.345
Spain	1.320
Greece	1.300

© OpenStreetMap contributors

Value Range



China vs India Population



Mao Tse Deng 1893-1976

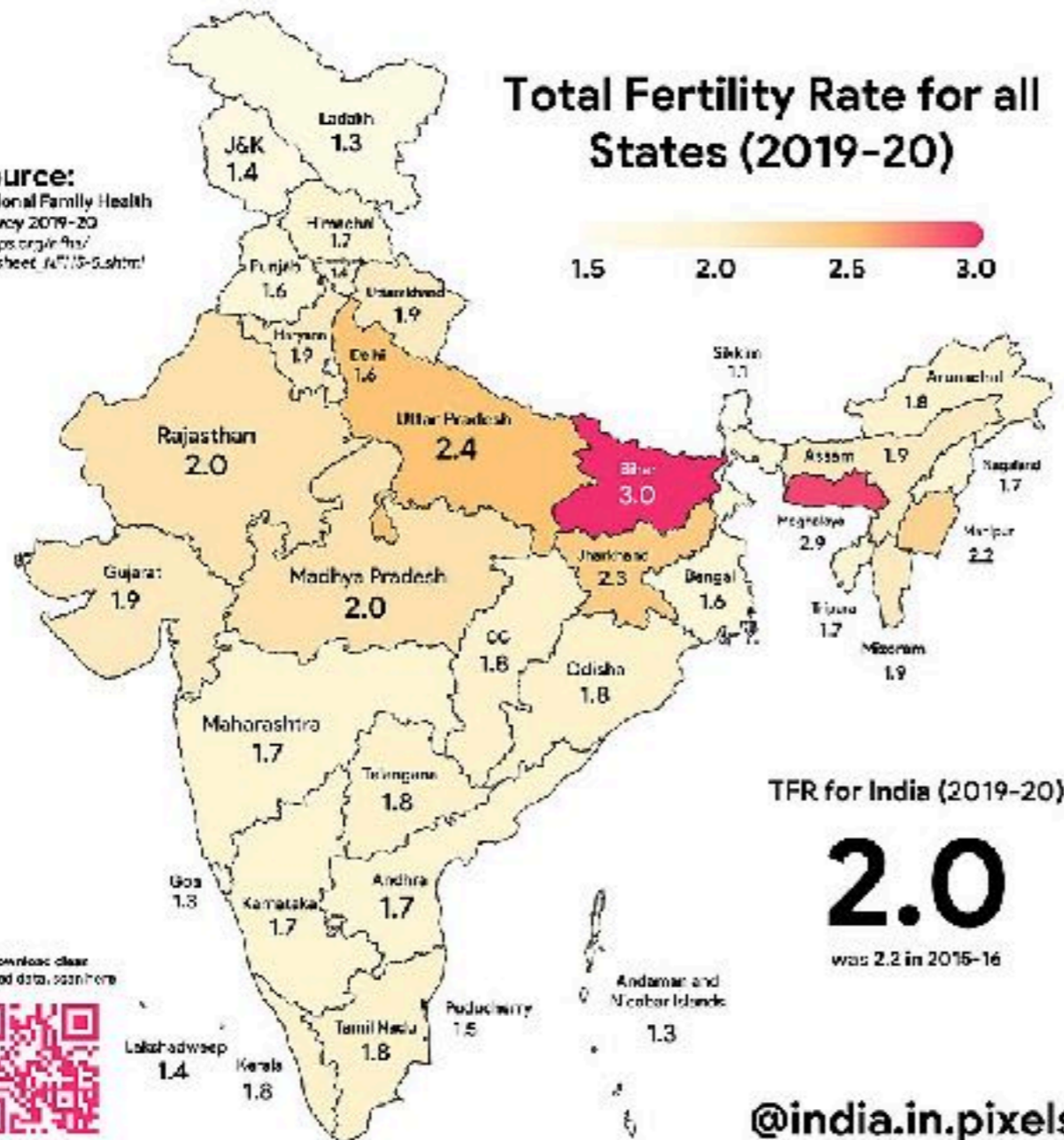


Deng Xiao Ping 1904-1993



Source:
National Family Health
Survey 2019-20
https://rhi.ips.org/inf/factsheet_14713-5.shtml

Total Fertility Rate for all States (2019-20)



TFR for India (2019-20)

2.0

was 2.2 in 2015-16

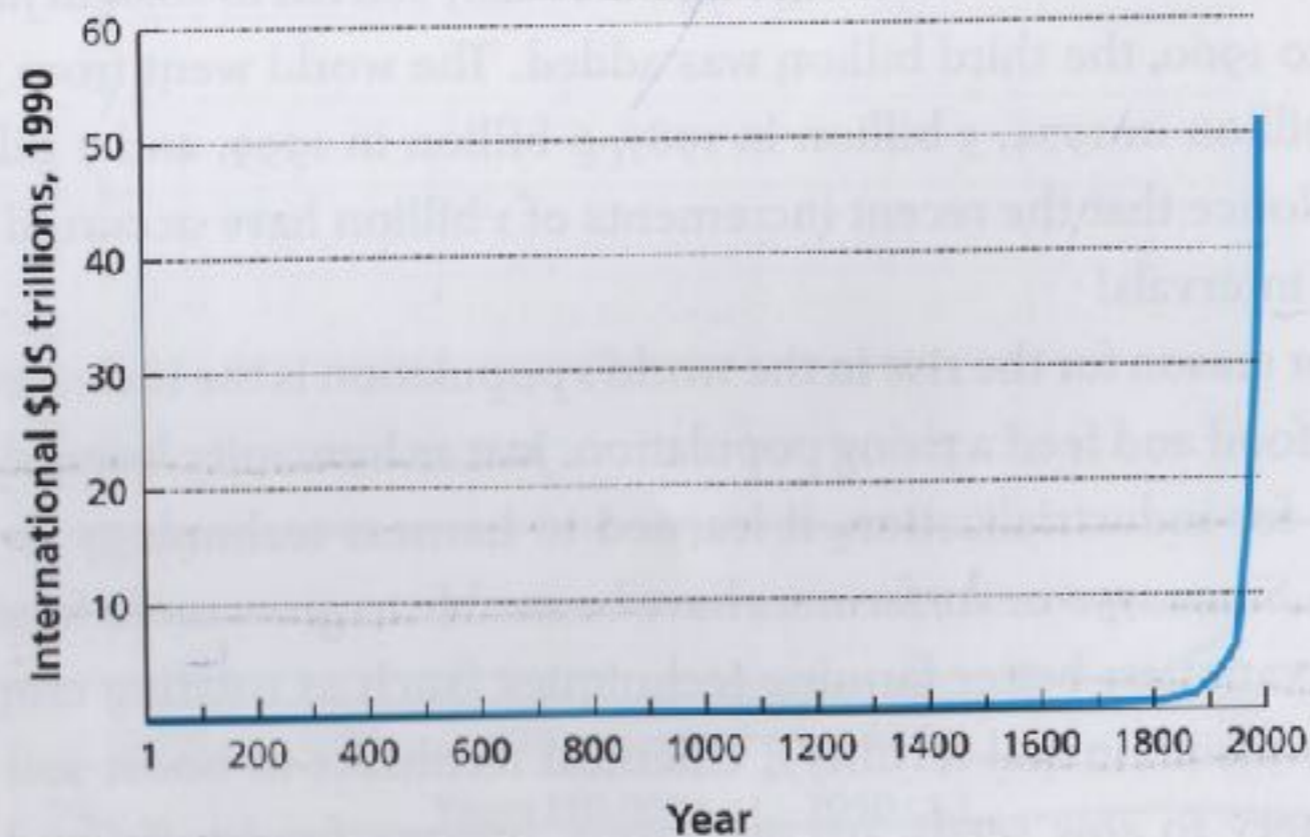
To download clear
parsed data, scan here



@india.in.pixels

$$\text{GWP} = \text{GWP per capita} \times \text{world population}$$

Figure 1.4 shows Maddison's estimates of GWP production expressed in constant 1990 international dollars. Since GWP per capita and population both have

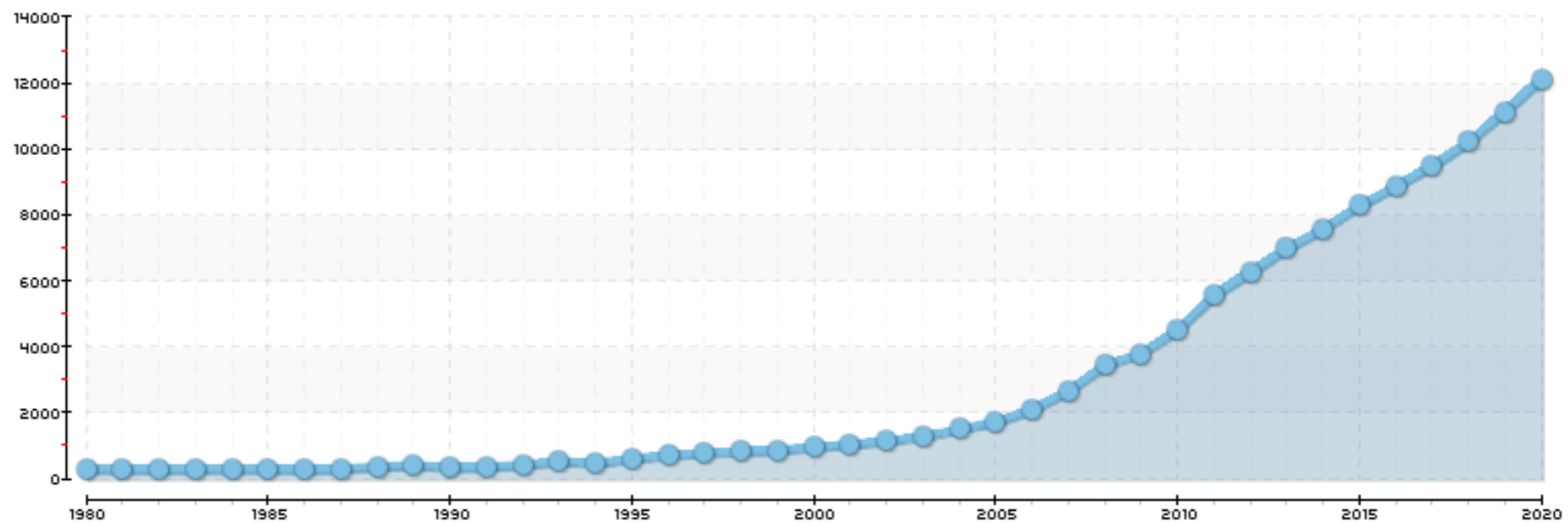


1.4 Growth of gross world output (international prices of 1990)

Source: Bolt, J., and J. L. van Zanden. 2013. "The First Update of the Maddison Project: Re-Estimating Growth Before 1820." Maddison Project Working Paper 4.

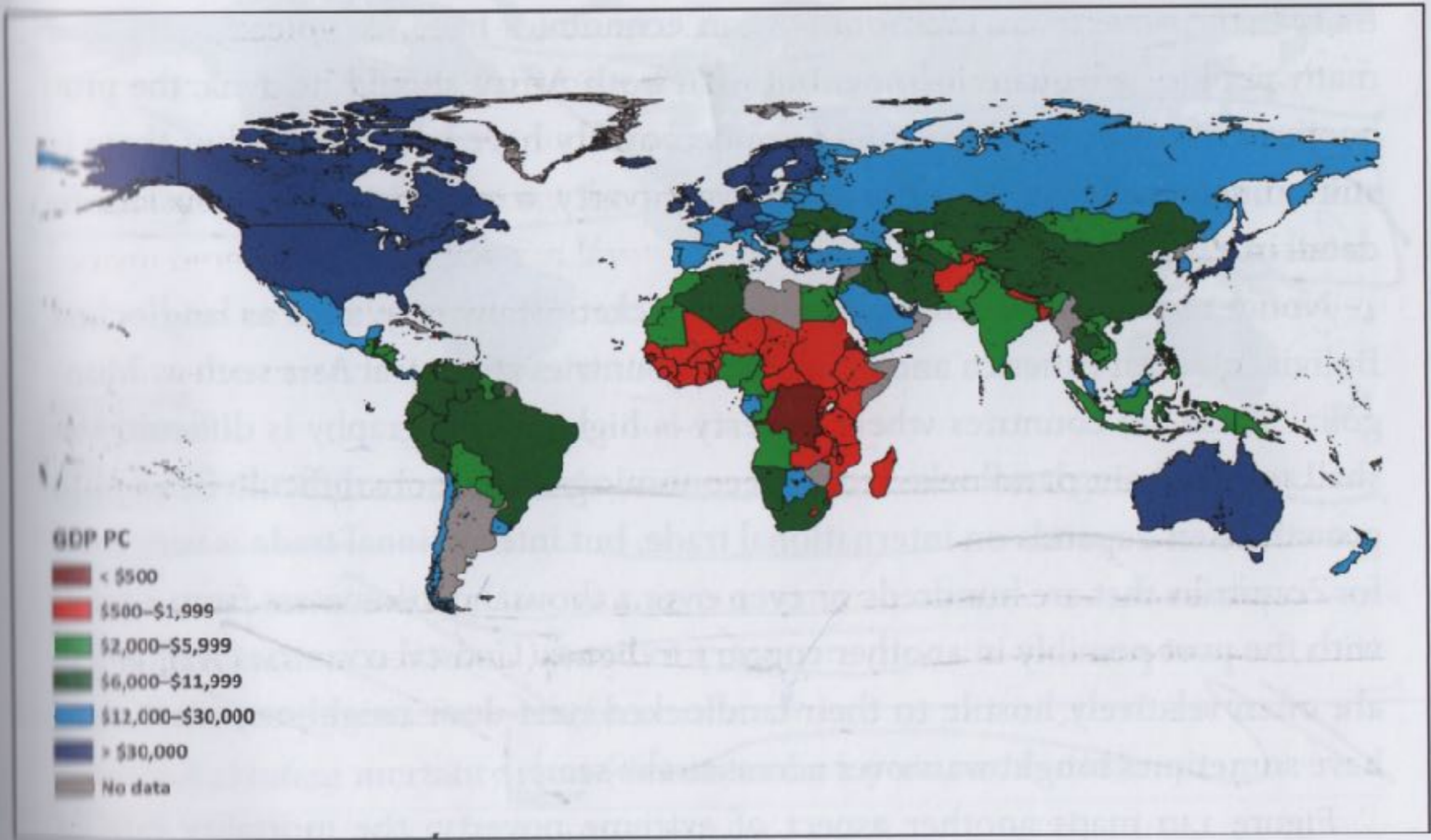


Cina - Prodotto interno lordo pro capite (Dollari)



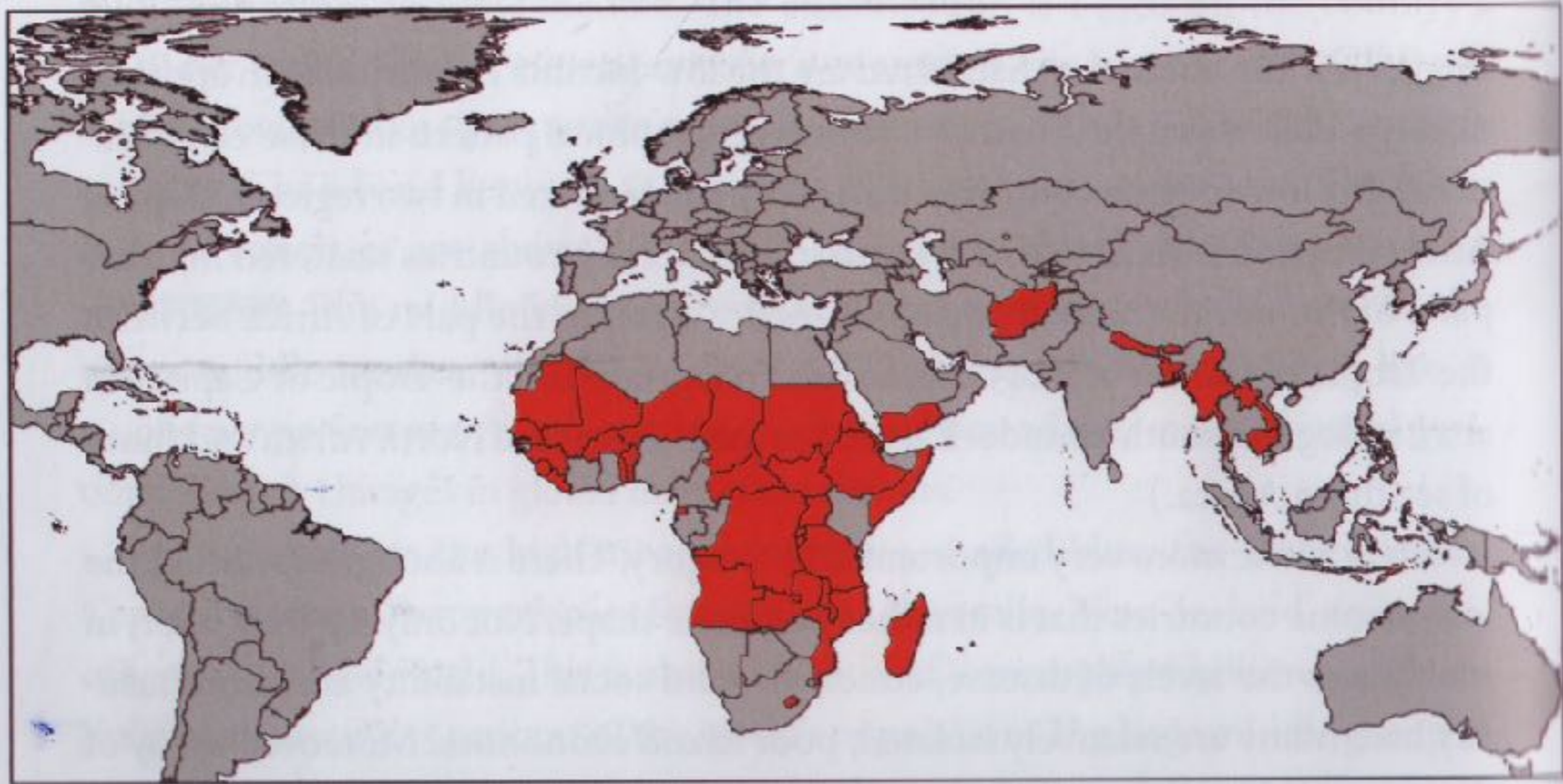
Fonte : FMI
Data : 2015
Creazione : Actualitix - Tutti i diritti riservati



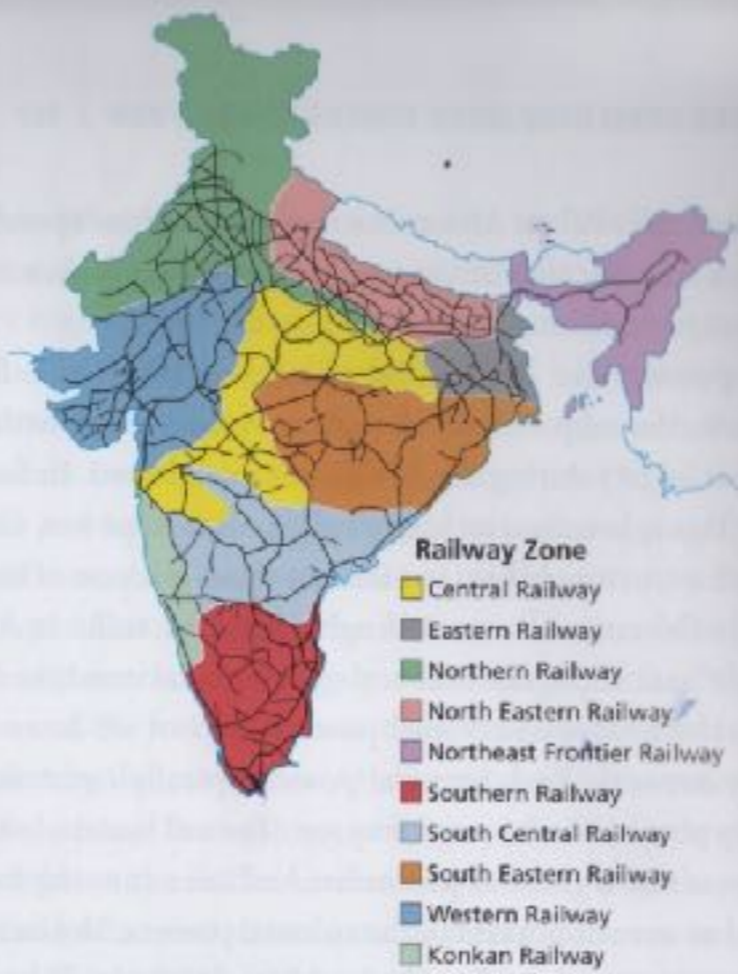


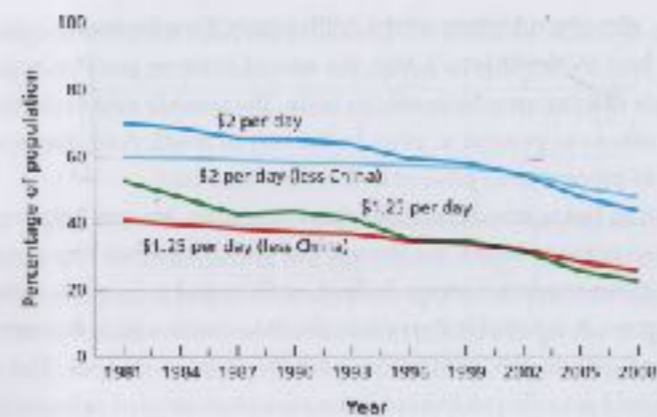
1.0 GDP per capita (2011 prices, PPP)

which can be quite vulnerable. They are subject to extreme climate catastrophes (such as tropical cyclones, storm surges, and droughts) and are often relatively isolated with small populations and high shipping costs to major ports.



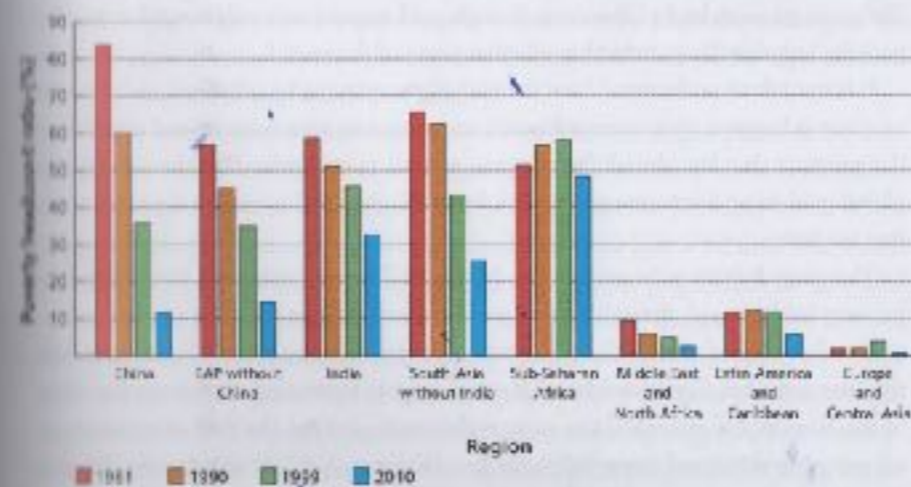
2.2 The least-developed countries (LDCs)





8.1 Poverty rates for the developing world (1981-2009)

Source: PovallNet/World Bank.



8.2 Extreme poverty rates by region (1981-2010)

Source: PovallNet/World Bank.



6.3 The eight Millennium Development Goals



Tab. n. 1. *Distribuzione reddito globale pro-capite tra individui adulti (>15 anni) in \$ (PPA/2023). Anni 2000 e 2021.*

Decili	2000	2021	Incremento %	Incremento reale
10% Superiore	192.250	379.454	97,30	187.204
40% Intermedio	7.077	11.150	57,55	4.073
50% Inferiore	1.150	2.845	147,39	1.695

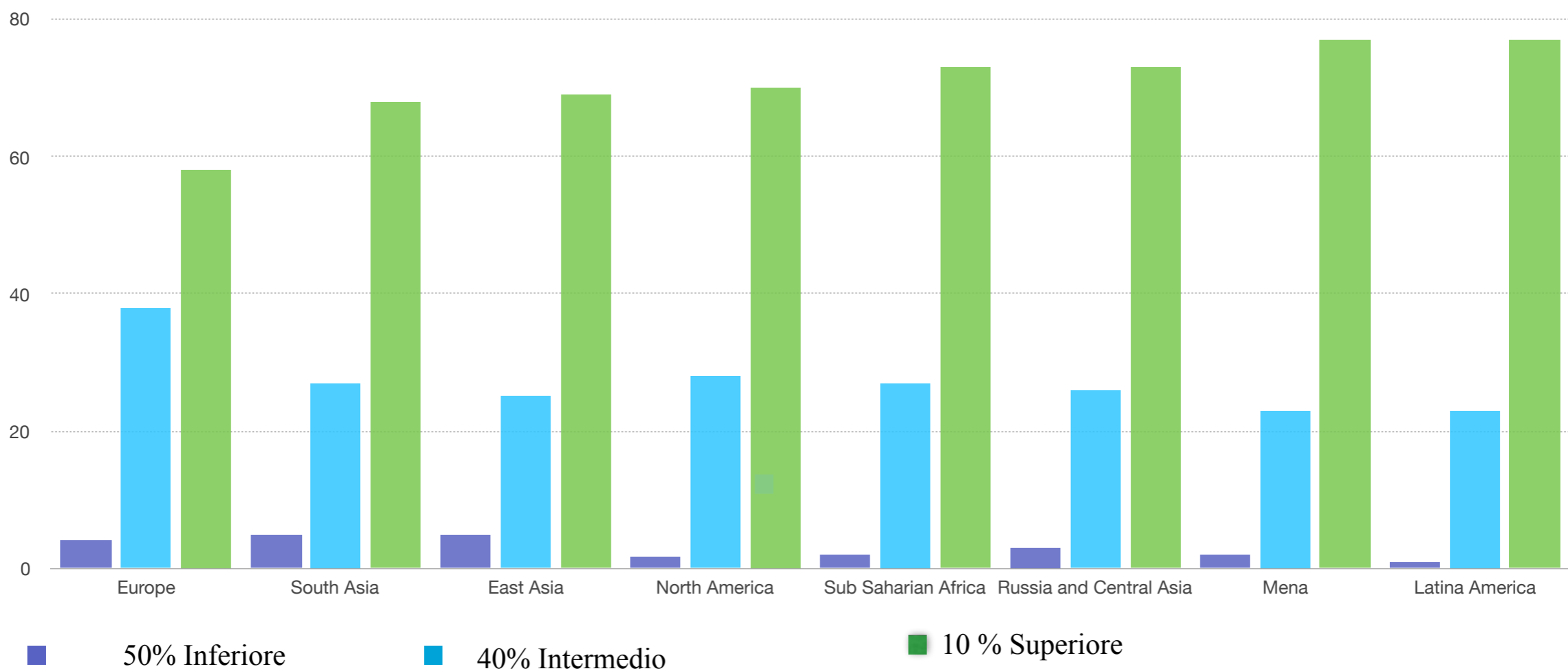
Tab. n. 2. *Patrimoni medi stimati per individui adulti (>15 anni), in miliardi di dollari. (PPA/2023). Anni 2000-2021.*

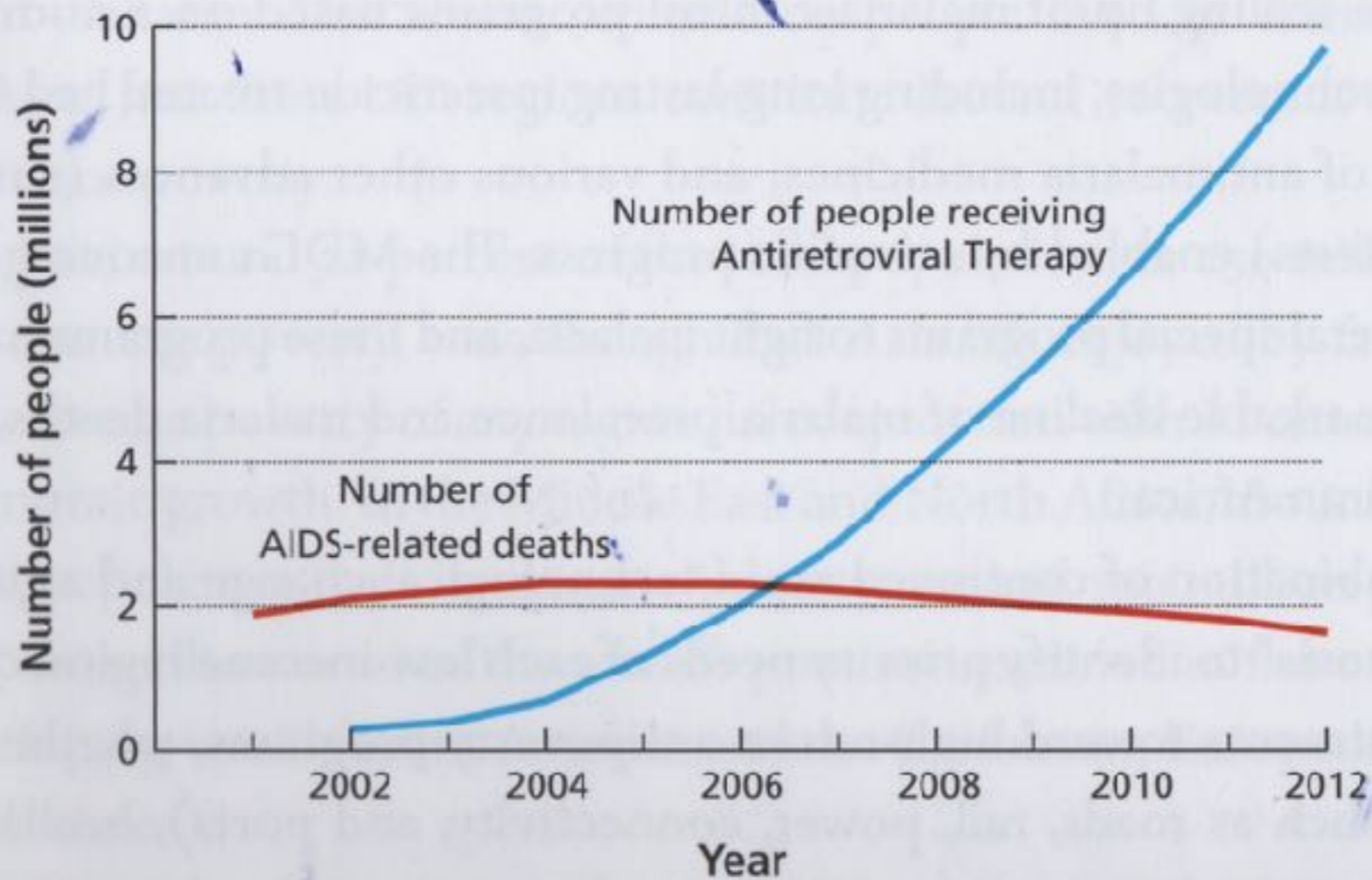
Decili	2000	2021	Incremento %	Incremento reale
10% Superiore	81.000	317.000	291,30	236.000
40% Intermedio	54.400	101.000	85,55	46.600
50% Inferiore	4.200	9.000	114,00	4.800

Tab. n. 3. *PIL per macro regioni in miliardi Dollari, a prezzi costanti, (PPA/2023). Anni 2000-2021.*

	2000	2021	Incremento reale	Incremento %
Europe	11.242	28.320	17.078	151,9
East Asia	8.868	38.113	29.245	329,7
North America	11.151	25.810	14.659	131,4
Russia/Central Asia	1.549	8.216	6.667	430
South + South East Asia	6.336	22.141	15.805	249,4
Latin America	5.763	10.877*	5.114	88,7
Sub Saharian Africa	1.324	5.040	3.716	280,6
MENA	4.034	10.353	6.319	156,6
Totale	50.267	148.870	98.603	196,1

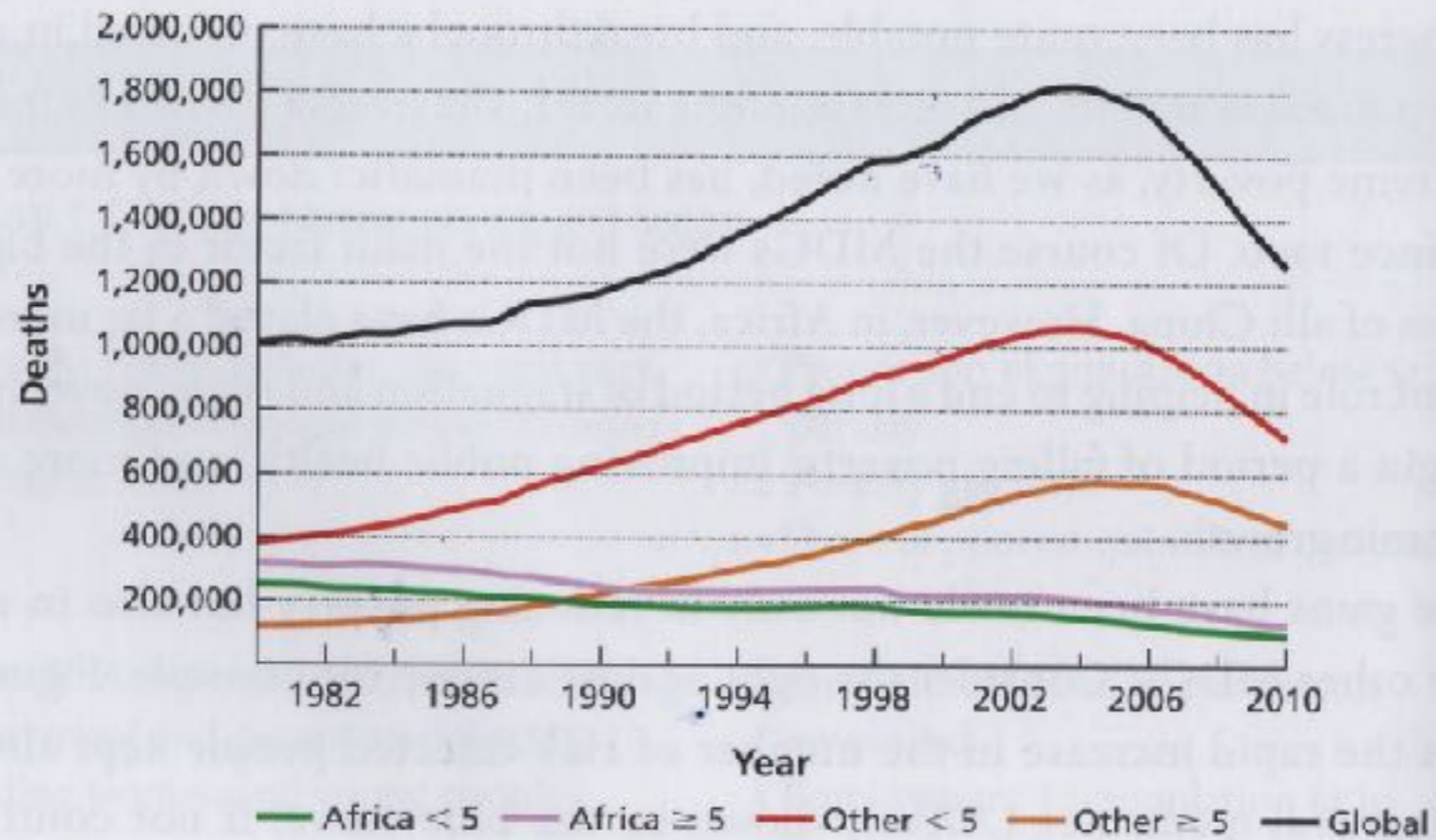
Grafico n. 2





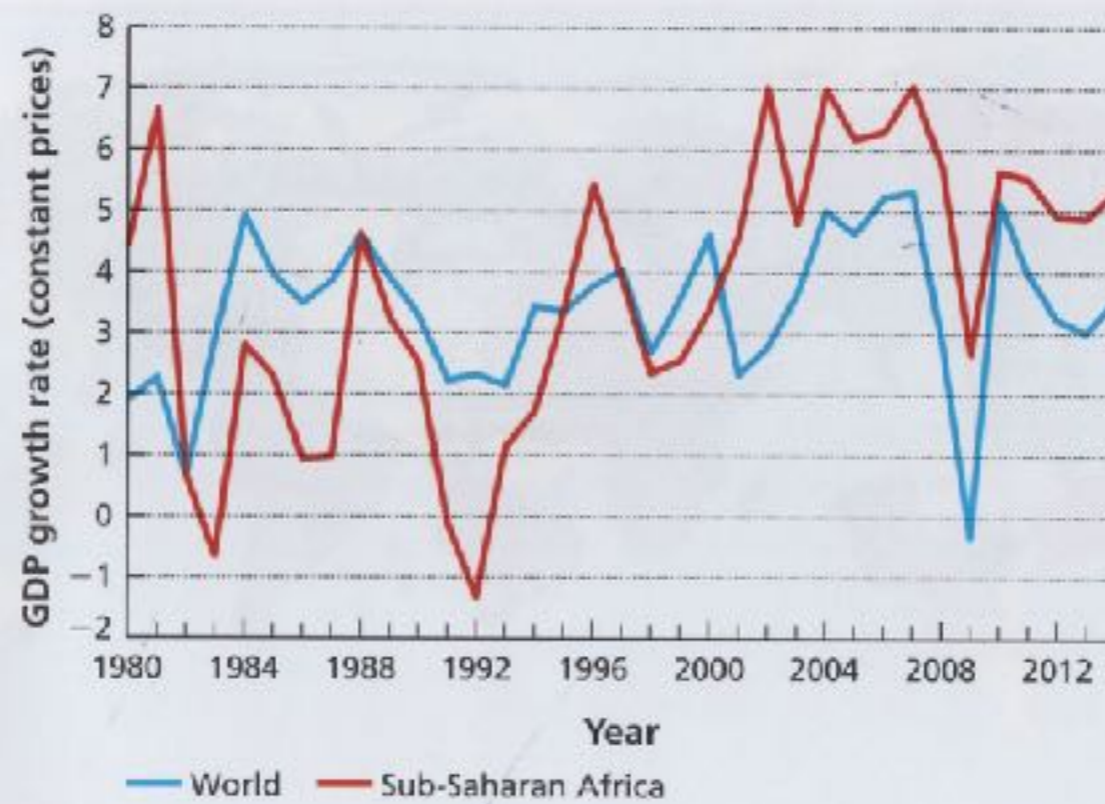
6.4 AIDS treatment recipients (2002–2010) and AIDS-related deaths (2000–2010)

Source: Joint United Nations Programme on HIV/AIDS (UNAIDS).



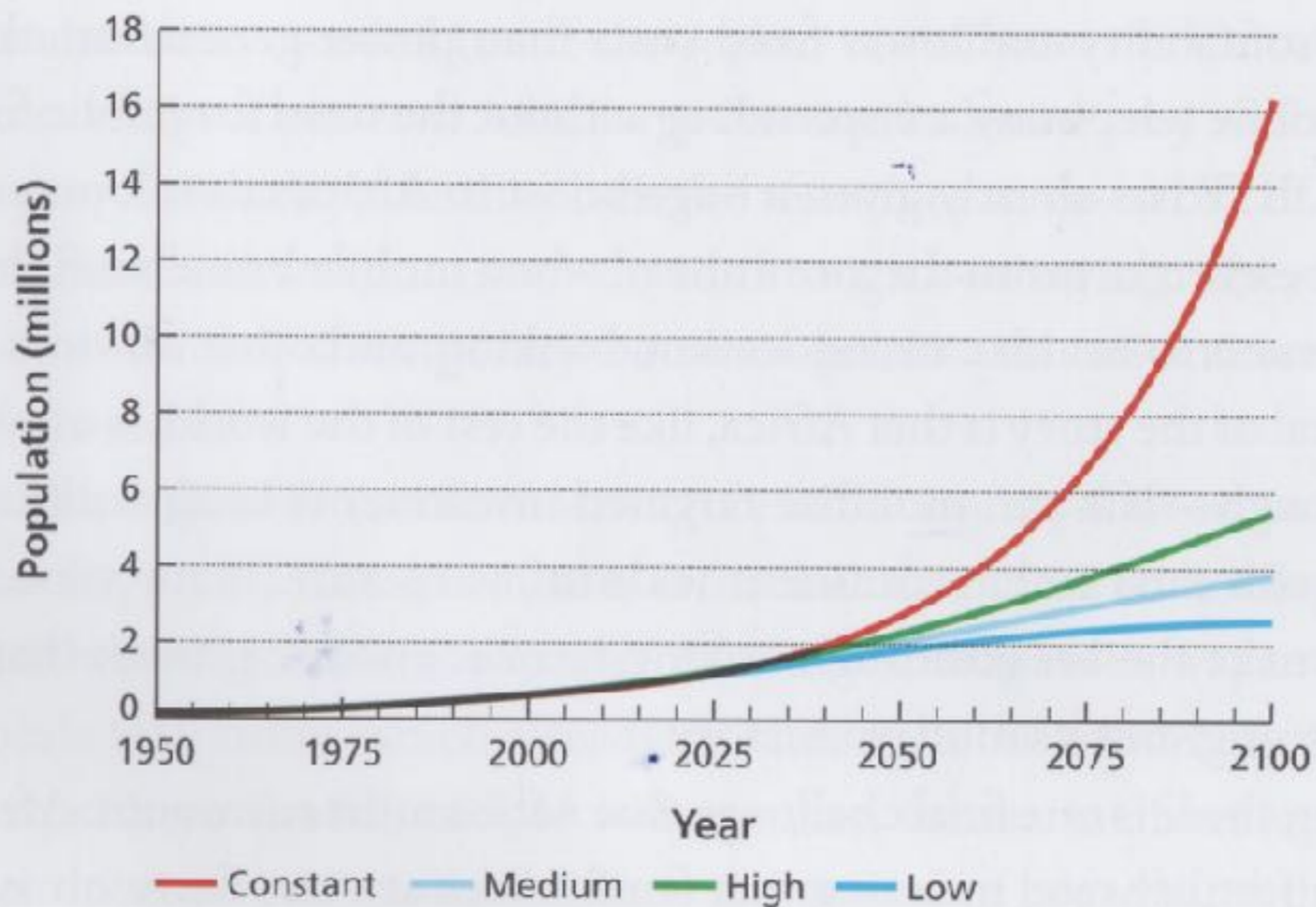
5.5 Malaria deaths by age and region (1980–2010)

Source: Murray, Christopher J. L. et al. 2012. "Global Malaria Mortality Between 1980 and 2010: A Systematic Analysis." *The Lancet* 379: 413–431.



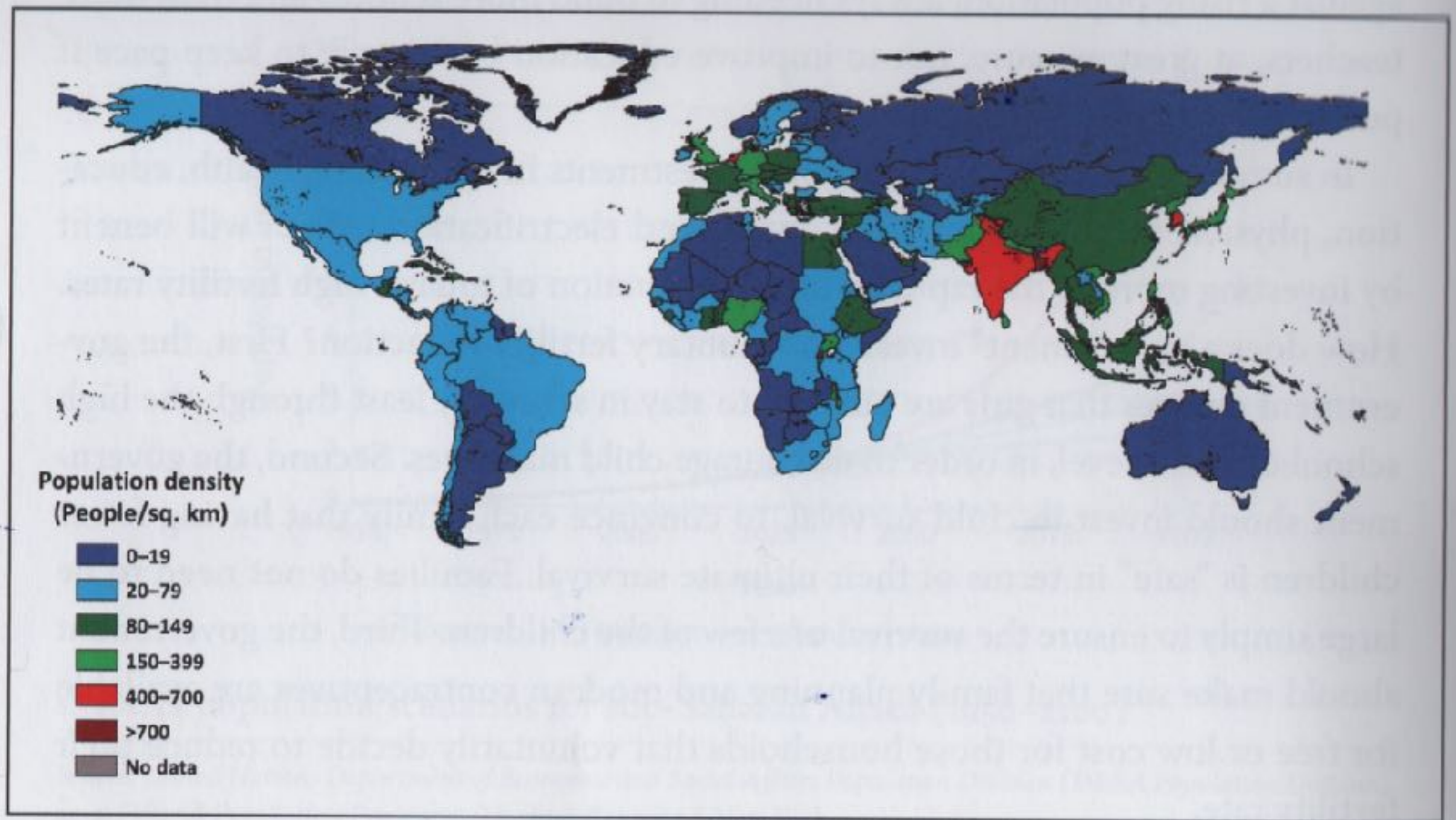
6.7 GDP growth annual change (1980–2012)

Source: International Monetary Fund, 2014, World Economic Outlook Database.



5.12 UN population scenarios for sub-Saharan Africa (1950–2100)

Source: United Nations Department of Economic and Social Affairs Population Division (DESA Population Division). 2013. "World Population Prospects: The 2012 Revision." New York.



5.13 World population density (2013)

Source: World Bank. 2014. "World Development Indicators."



8.10 Lights on at night around the globe













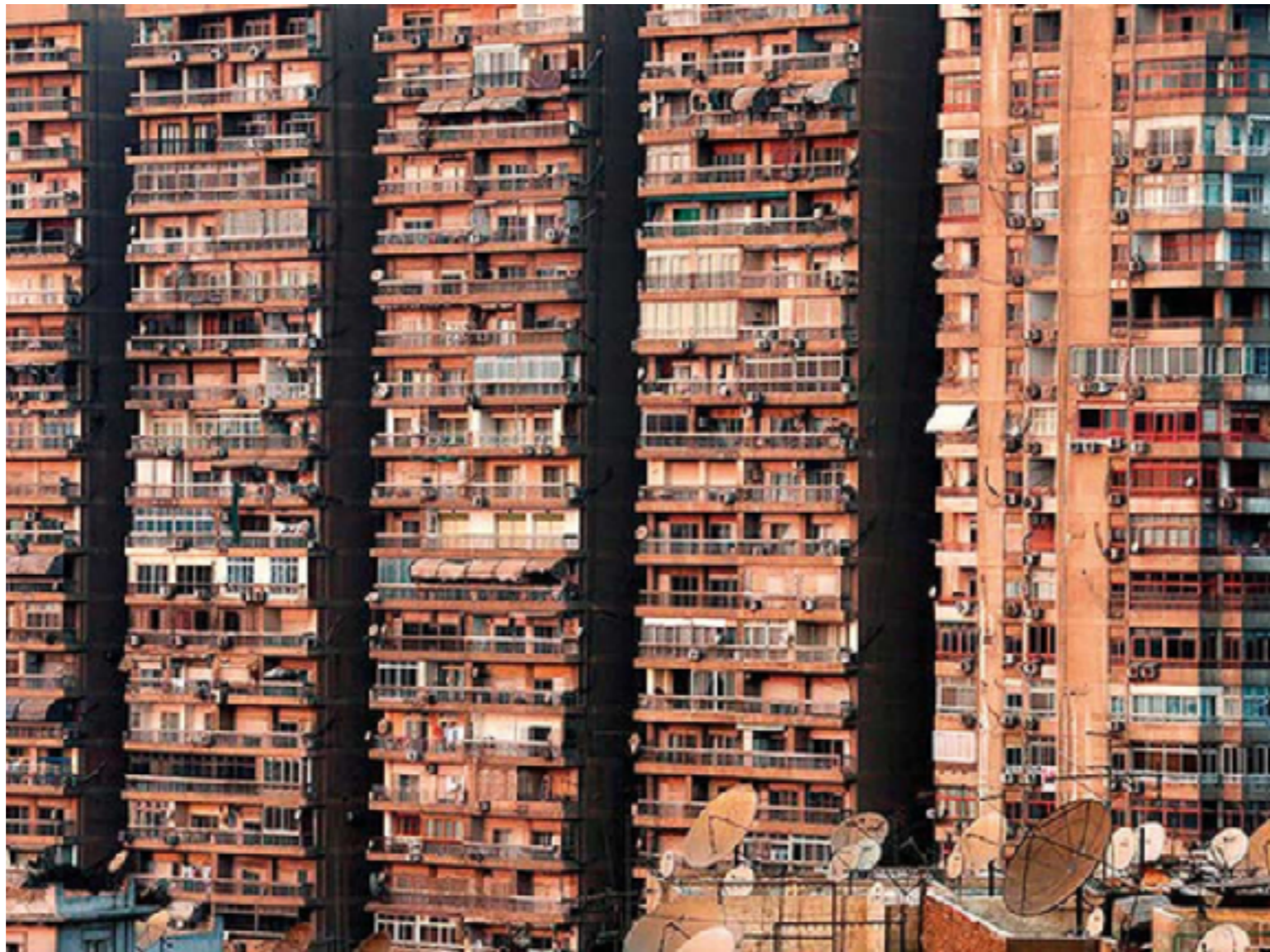


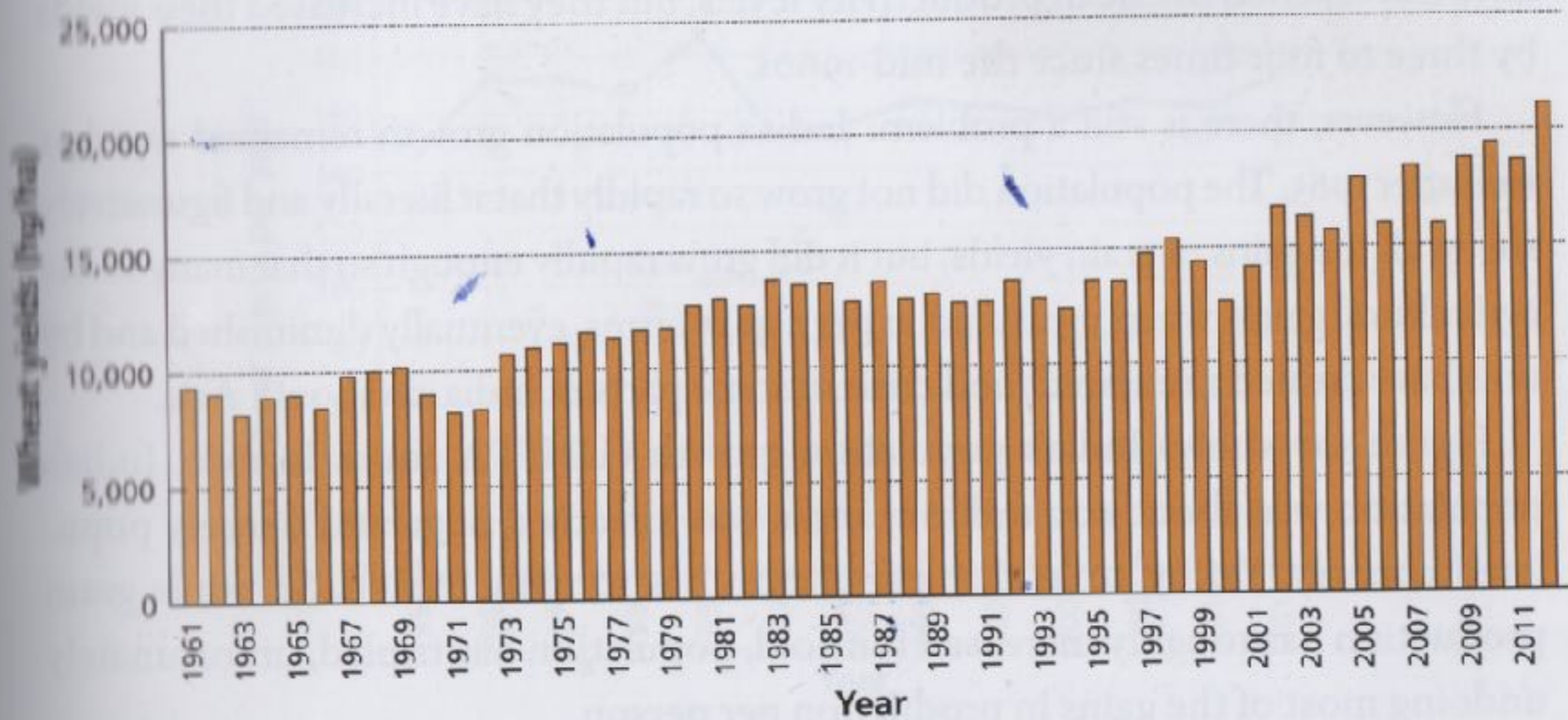
Ariz and F. Jodi





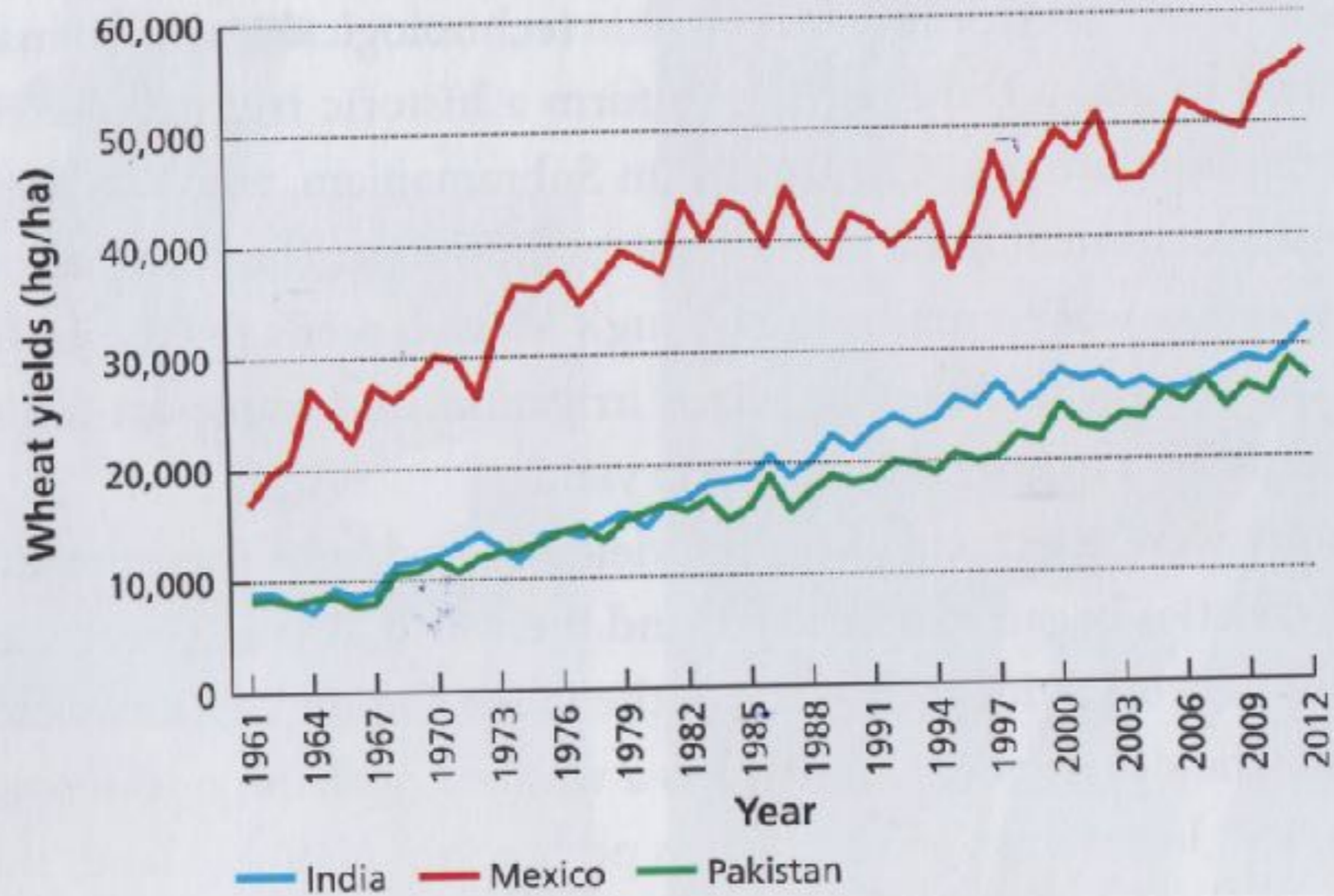






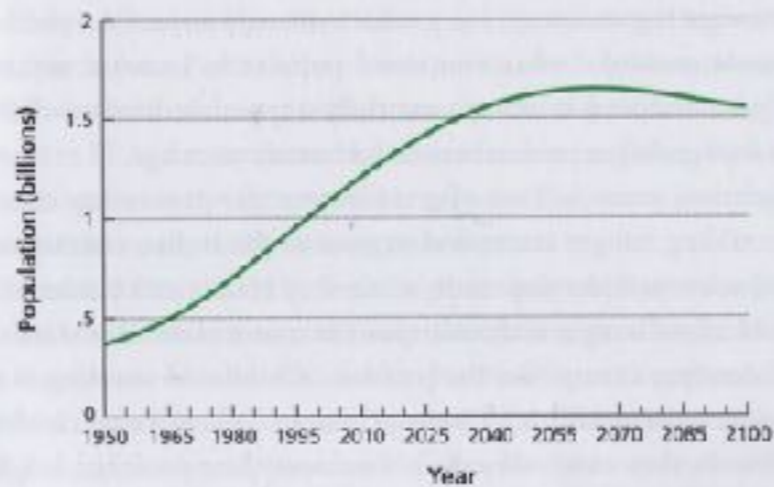
6.16 Wheat yields in developing countries (1961–2012)

Source: Food and Agriculture Organization of the United Nations. 2014. "Crops." Latest update: 7/18/2014.
<http://faostat3.fao.org/faostat-gateway/go/tõ/download/Q/QC/E>.



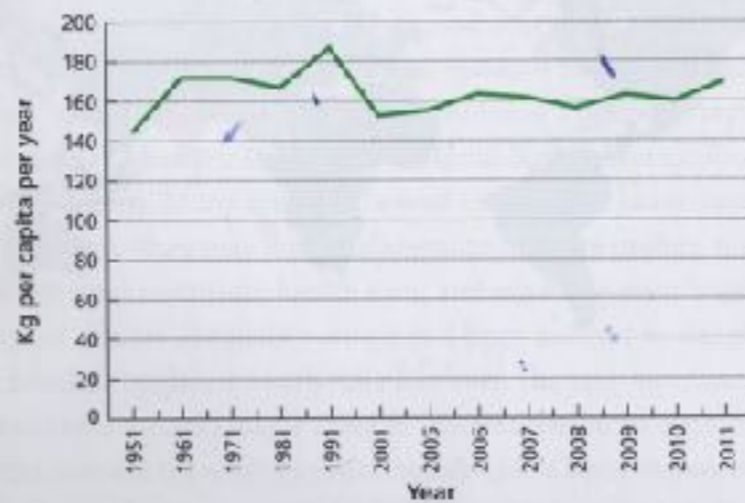
5.16 Wheat Yields in Mexico, India, Pakistan (1961–2012)

Source: Food and Agriculture Organization of the United Nations. 2014. "Crops." Latest update: 7/18/2014.
<http://faostat3.fao.org/faostat-gateway/go/to/download/Q/QC/E>.



8.17 India's population (medium-variant after 2010)

Source: United Nations Department of Economic and Social Affairs Population Division (DESA Population Division), 2013, "World Population Prospects: The 2013 Revision," New York.



8.18 India's total food grain production per capita (1951-2011)

Source: Food and Agriculture Organization of the United Nations, 2014, "Crops." Latest update: 7/18/2014. http://faostat3.fao.org/faostat_gateway/gc/to/download/Q/QC/h.

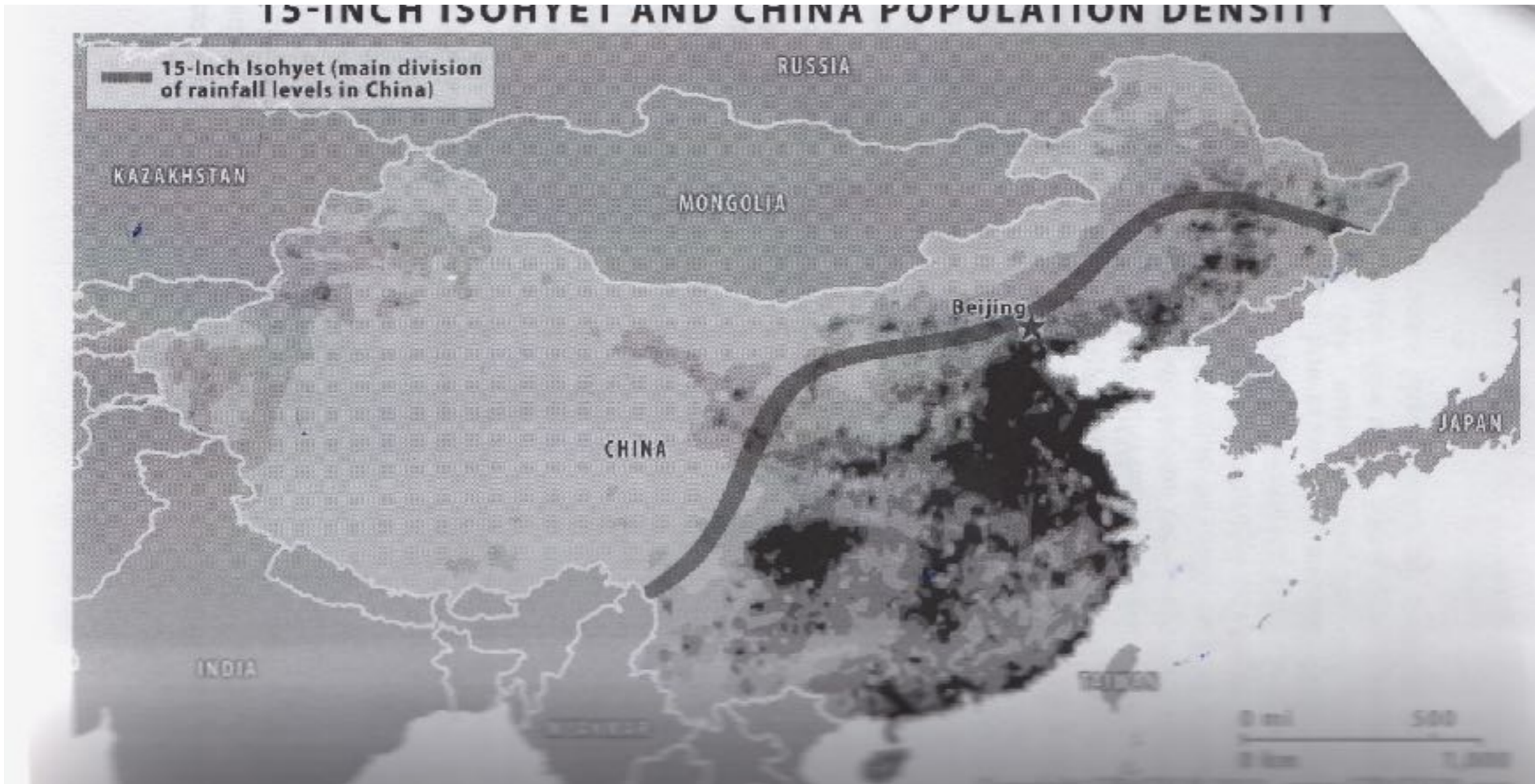


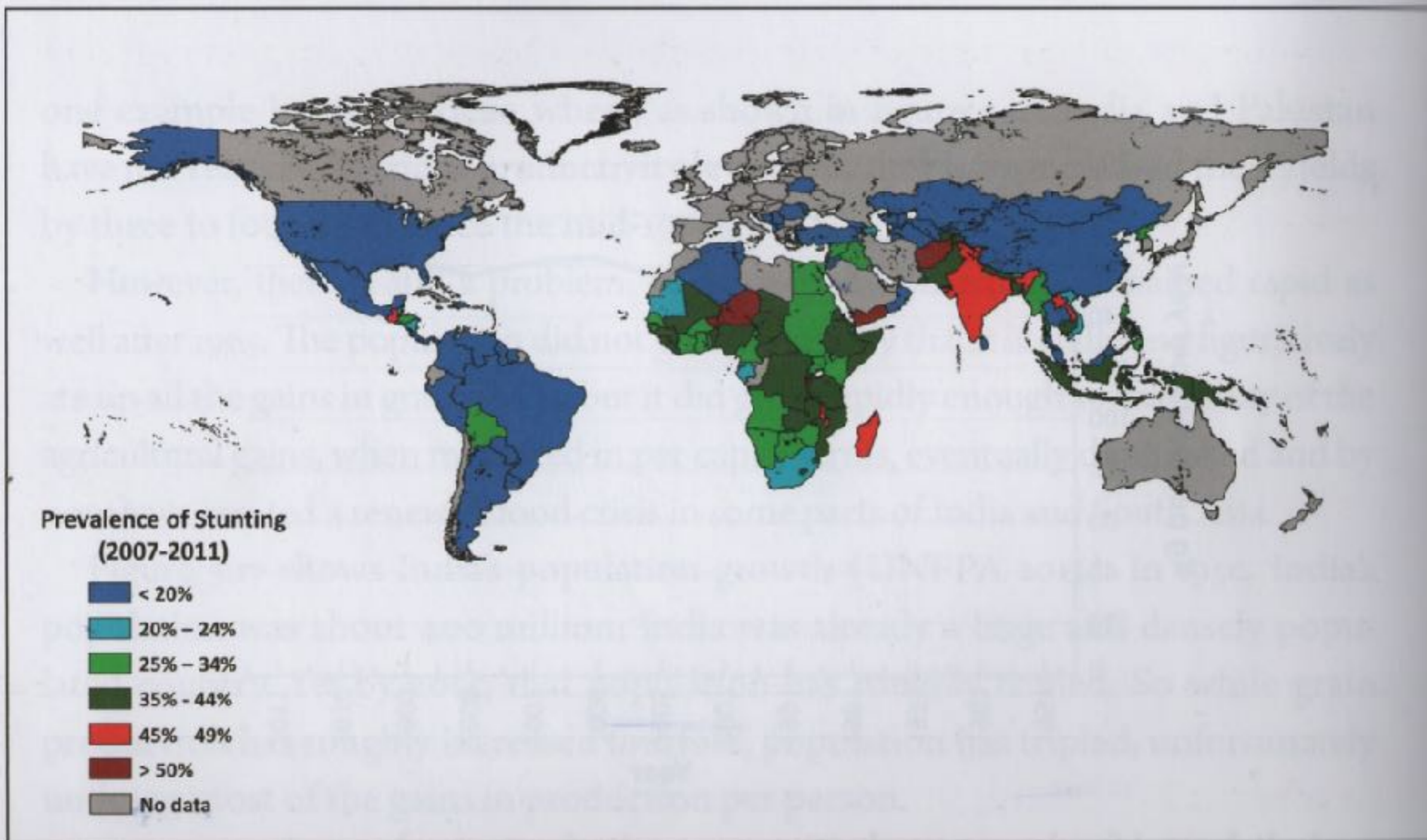






15-INCH ISOHYET AND CHINA POPULATION DENSITY



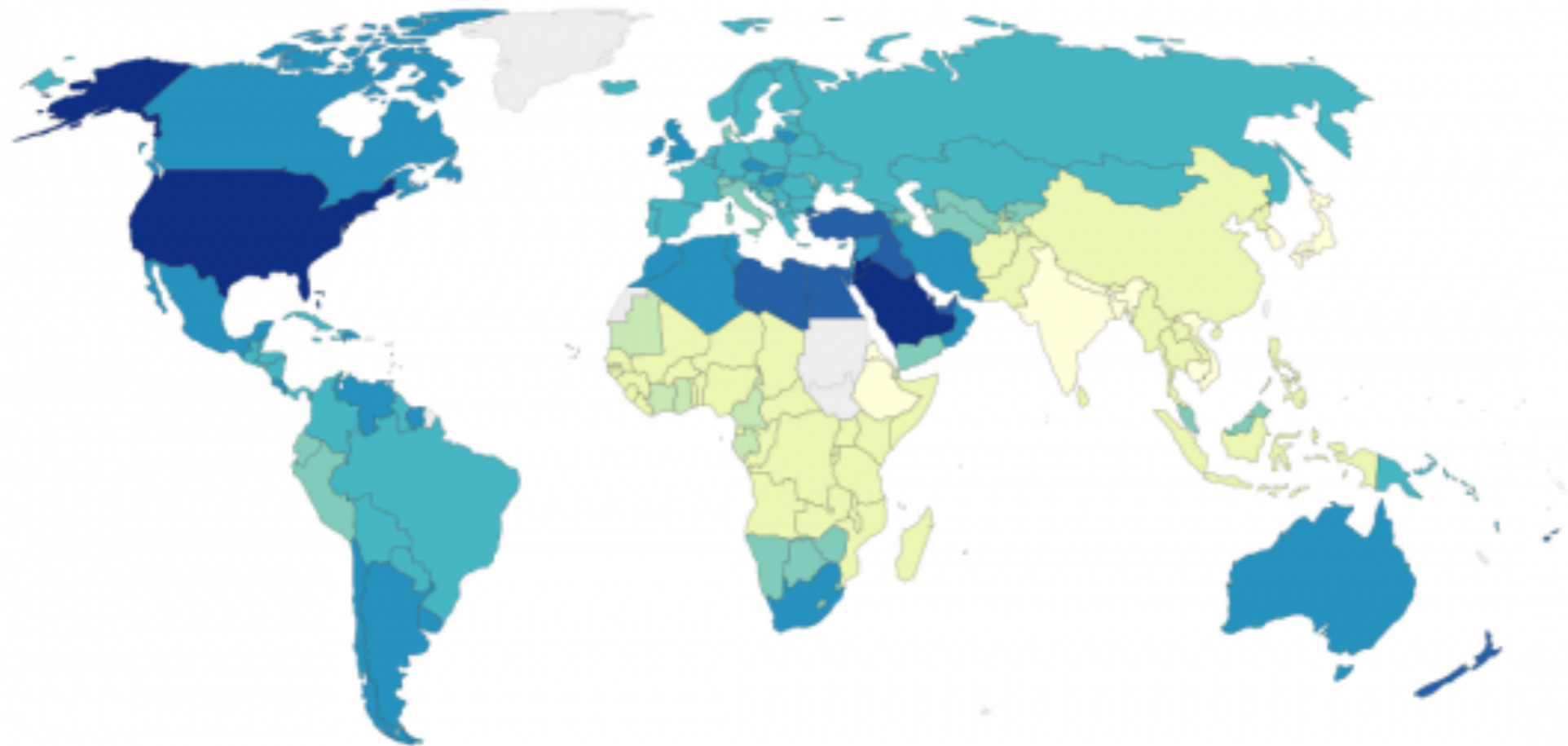


5.19 Global prevalence of stunting

Source: UN data.

Share of adults defined as obese, 2016

Percentage of adults aged 18+ years old who are defined as obese based on their body-mass index (BMI). BMI is a person's weight in kilograms (kg) divided by his or her height in metres squared. A BMI greater than or equal to 30 is defined as obese.



Source: WHO, Global Health Observatory

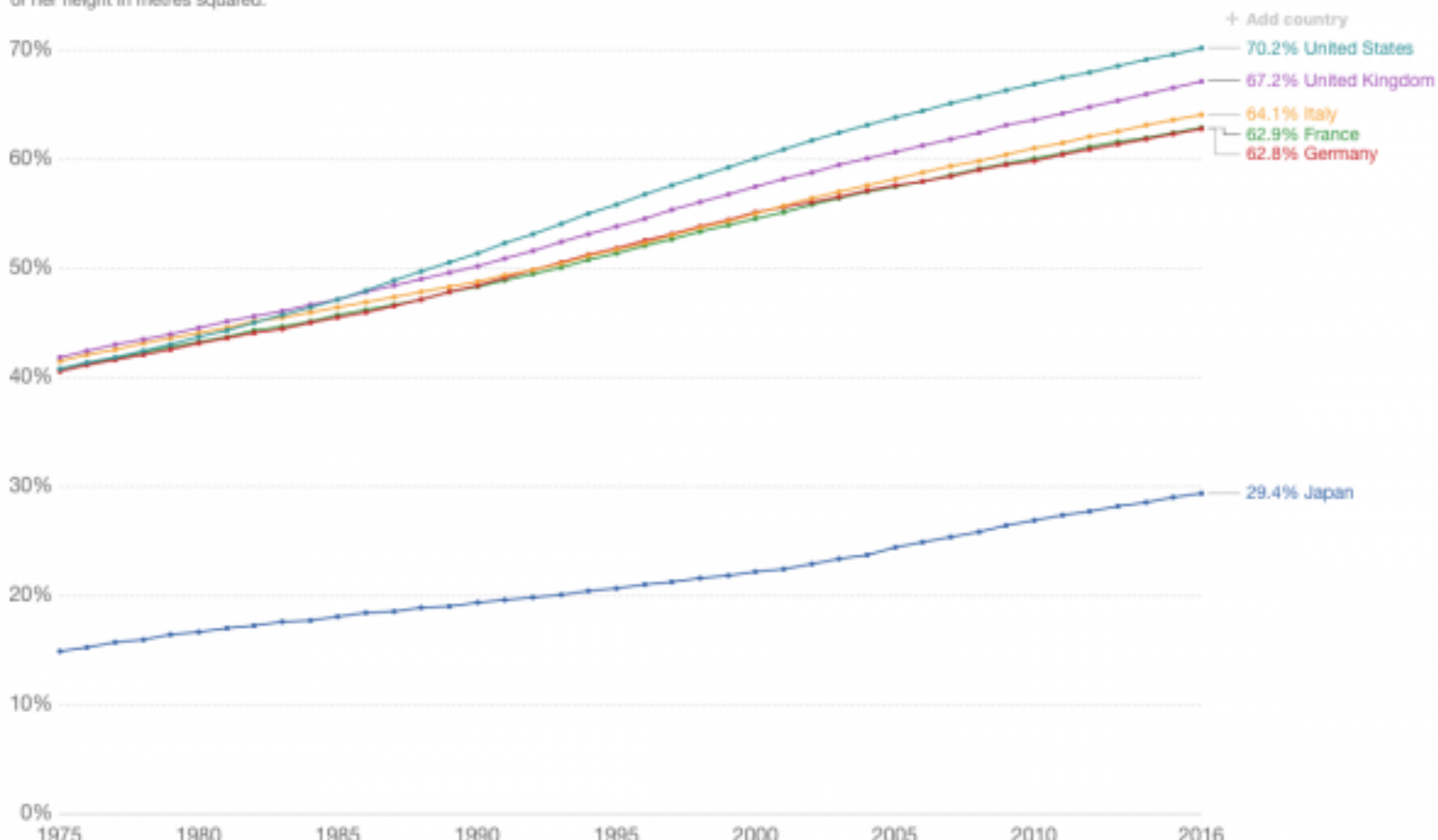
CC BY



Share of adults who are overweight

Percentage of adults aged 18+ years who have a body-mass index (BMI) greater than or equal to 25. BMI is a person's weight in kilograms (kg) divided by his or her height in metres squared.

Our World
in Data



Nestlé

Alimentare: Maggi, Kit Kat, Nescafé, Nesquik, Pure Life, La valle degli orti, Buitoni, Mare fresco, Maggi.

Preparati per bevande: Nescafé, Nesquik, Orzoro.

Dolciumi: Kit Kat, Smarties, Lion, Galak, After Eight, Polo, Fruit Joy, Perugina, Baci Perugina, Nero Perugina.

Yogurt e prodotti a base di latte: Fruttolo, Mio, Lc1, Lcz (latte condensato), Sveltesse

Prodotti per l'infanzia: Mio, Nidina.

Cereali e barrette: Fitness, Cheerios, cereali Nesquik, Chocapic, Gluten free corn flakes.

Bevande: acqua Vera, Beltè.

Coca-Cola

Coca-cola, Fanta, Sprite, Minute maid, acqua Dasani

Unilever

Alimentare: Knorr, Lipton, Magnum, Algida, Calvé, Carte d'Or, Cornetto, Max Adventures, Mentadent, Solero, Cafè nero, Cucciolone, Slim-Fast.

Igiene personale: Axe, Dove, Badedas, Clear, Fissan, Tigi, Zendium, Glysolid.

Igiene domestica: Cif, Coccolino, Svelto, Lysoform.

PepsiCo

Pepsi, 7up, Tropicana.

Danone

Activia, Actimel, Oikos, Danacol, Vita Snella, Super Mario, Danette.

General Mills

Gelati: Häagen-Dazs,

Conserve vegetali: Green Giant

Piatti pronti: Old El Paso Mexican

Biscotti: Pillsbury, Betty Crocker.

Kellogg's

Cereali e biscotti: All Bran, Choco Krave, Coco Pops, Extra, Frosties, Kellogg's Corn Flakes, Miel Pops, Nice Morning, Nutri-Grain, Rice Krispies, Special K.

Snack salati: Pringles

Mars

Pet food: Pedigree, Whiskas, Cesar, Sheba, KiteKat, Frolic, Catsan, Perfect fit, Catisfations.

Dolciumi: Mars, m&m's, Snickers, Twix, Bounty, Balisto, Maltesers, Orbit, Freedent, Solano.

Preparati alimentari: Uncle Bens, Suzi Wan, Ebly.

Gelati: Mars.

Associated British Foods

Tè Twinings.

Mondelez

Gelati Côte d'Or

Dolciumi: Halls, Mikado, Milka, Toblerone

Biscotti salati: Ritz, Tuc.

Formaggi: Philadelphia, Sottilette

