

Paper Reference 4GE1/02
Pearson Edexcel
International GCSE (9–1)

Geography

PAPER 2: Human geography

Wednesday 5 June 2024 – Morning

Time: 1 hour 45 minutes

Resource Booklet

**DO NOT RETURN THIS
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QUESTION PAPER.**

V75750A

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For some Figures there is a modified colour and modified black and white diagram. You may use whichever version is easier for you to view. Some diagrams are only in modified colour but you are then provided with a description of the diagram.

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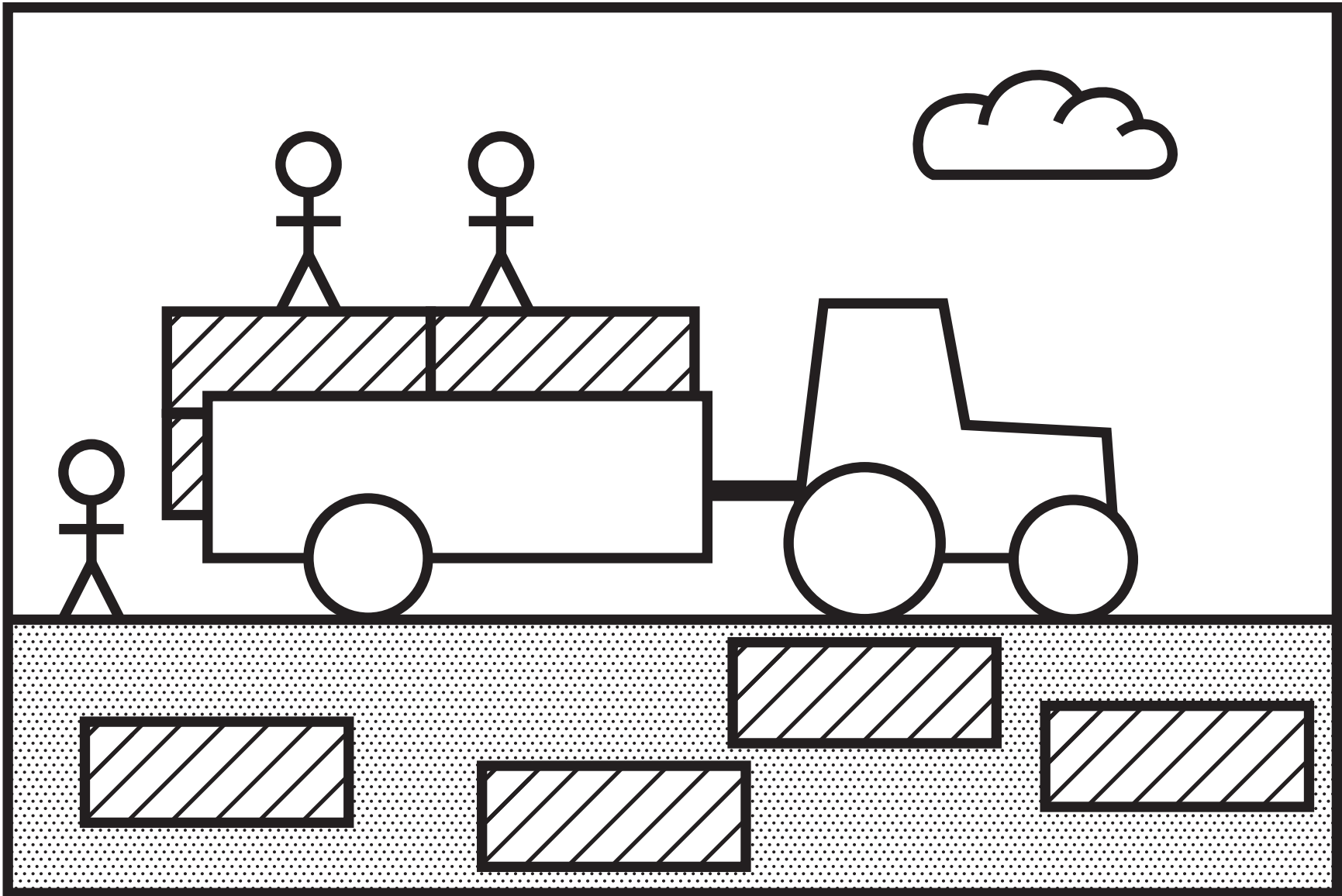
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KEY

Tractor and trailer

Hay

Field

Farmers

Clouds

Figure 1b

Global investment in energy efficiency, 2015–2021

KEY

- Buildings
- Transport
- Industry

Energy efficiency investment (US\$ bn)

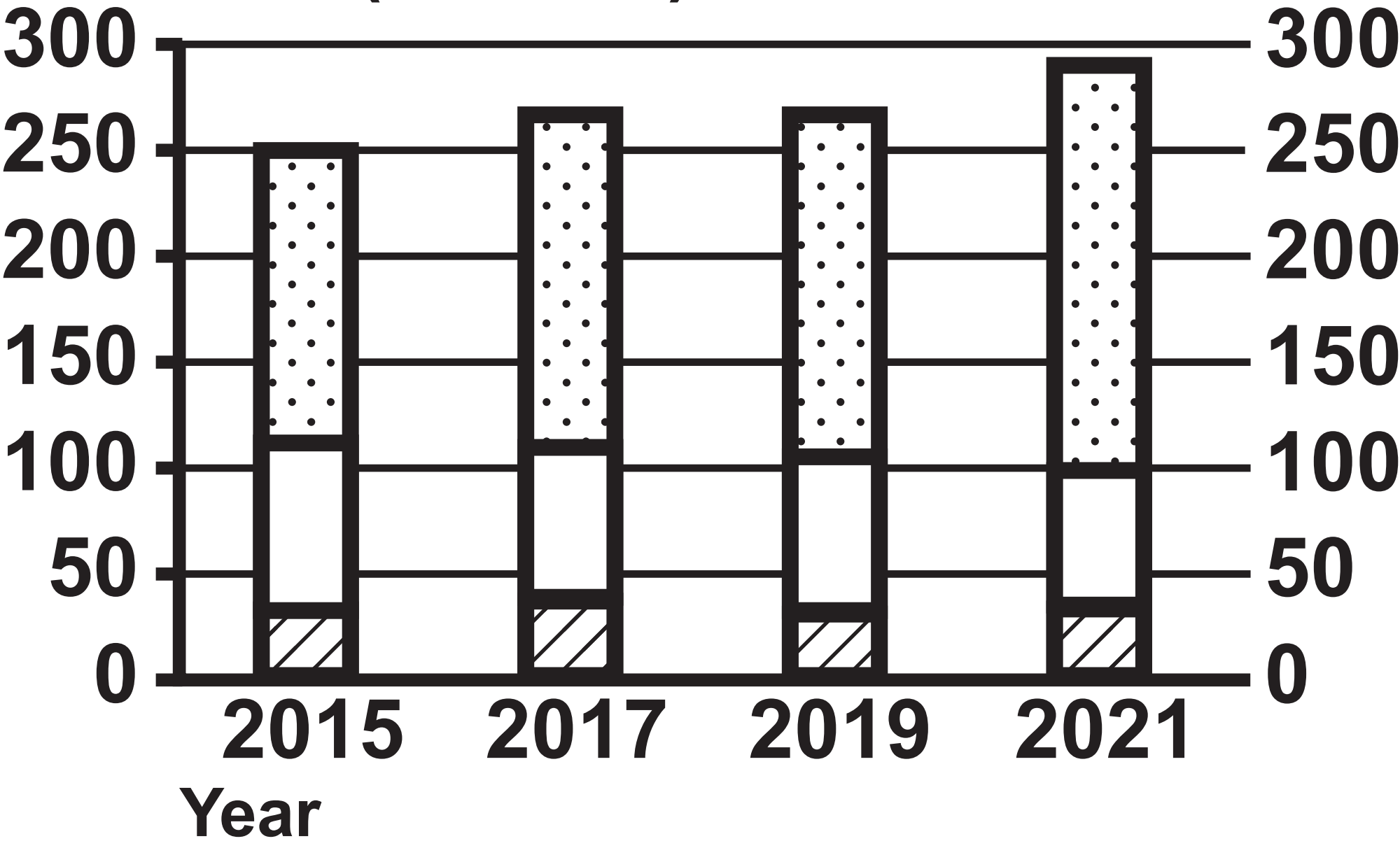


Figure 1c
Energy mix in Africa and
the European Union, 2020

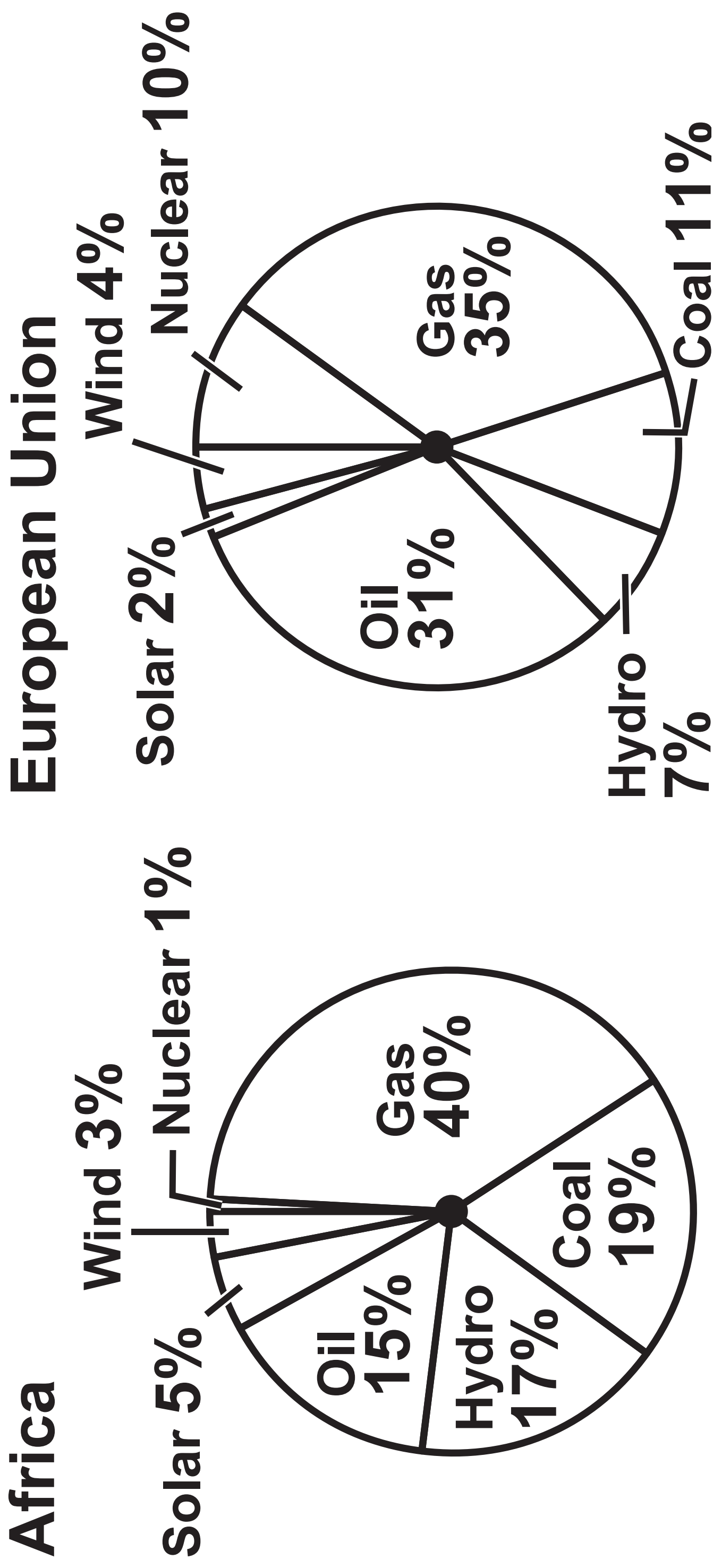


Figure 2a – Key Global biomes

KEY

1 = Chaparral

2 = Temperate grassland

3 = Deciduous forest

4 = Coniferous forest

Turn over

Figure 2a – Diagram
Global biomes

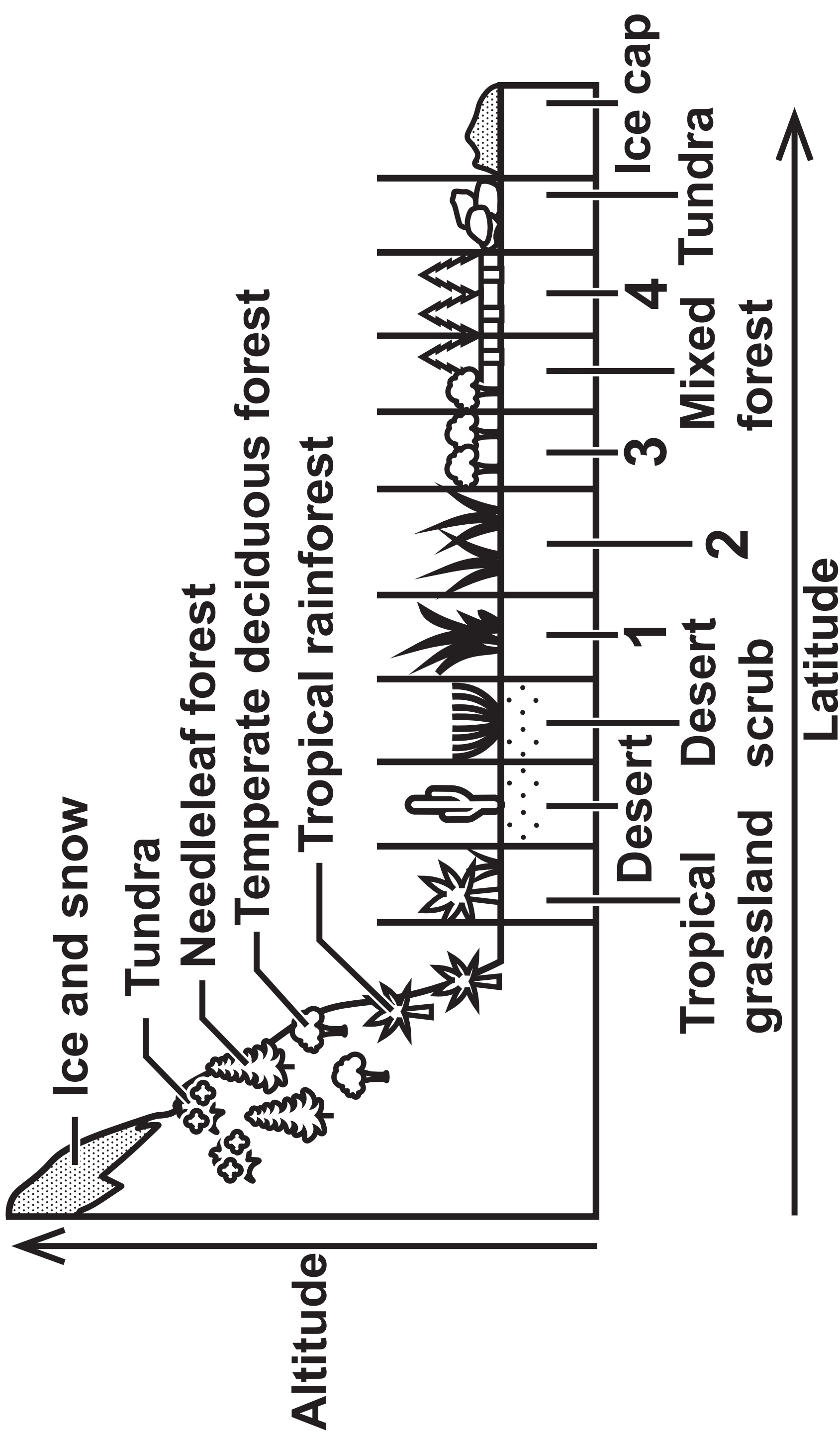


Figure 2b – Key Average income from farm diversification activities in England, 2022

KEY

- A Sport and recreation**
- B Solar energy**
- C Other diversified activities**
- D Other sources of renewable energy**
- E Processing/retailing of farm produce**
- F Tourist accommodation and catering**
- G Renting buildings for non–farming use**

Figure 2b – Diagram
Average income from farm diversification
activities in England, 2022

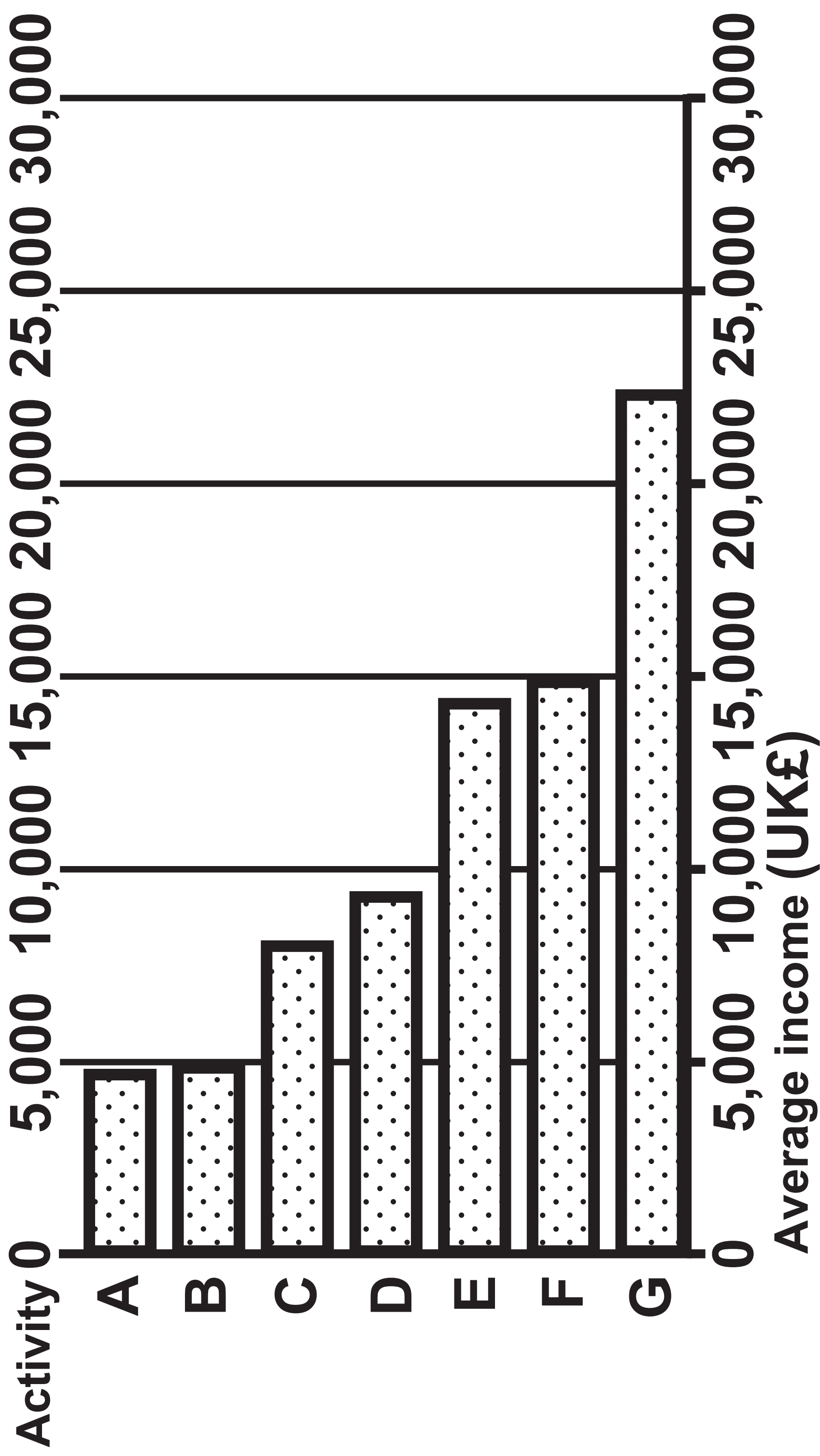


Figure 2c – Key Ecosystem goods and services

KEY

A Tourism

**B Science
and
education**

**C Health and
wellbeing**

**D Flood
management**

**E Carbon storage
and climate
regulation**

**F Habitats for
species**

**G Water and
nutrient cycling**

H Water supply

Turn over

**Figure 2c – Diagram
Ecosystem goods and services**

**Ecosystem
goods**

**Ecosystem
services**

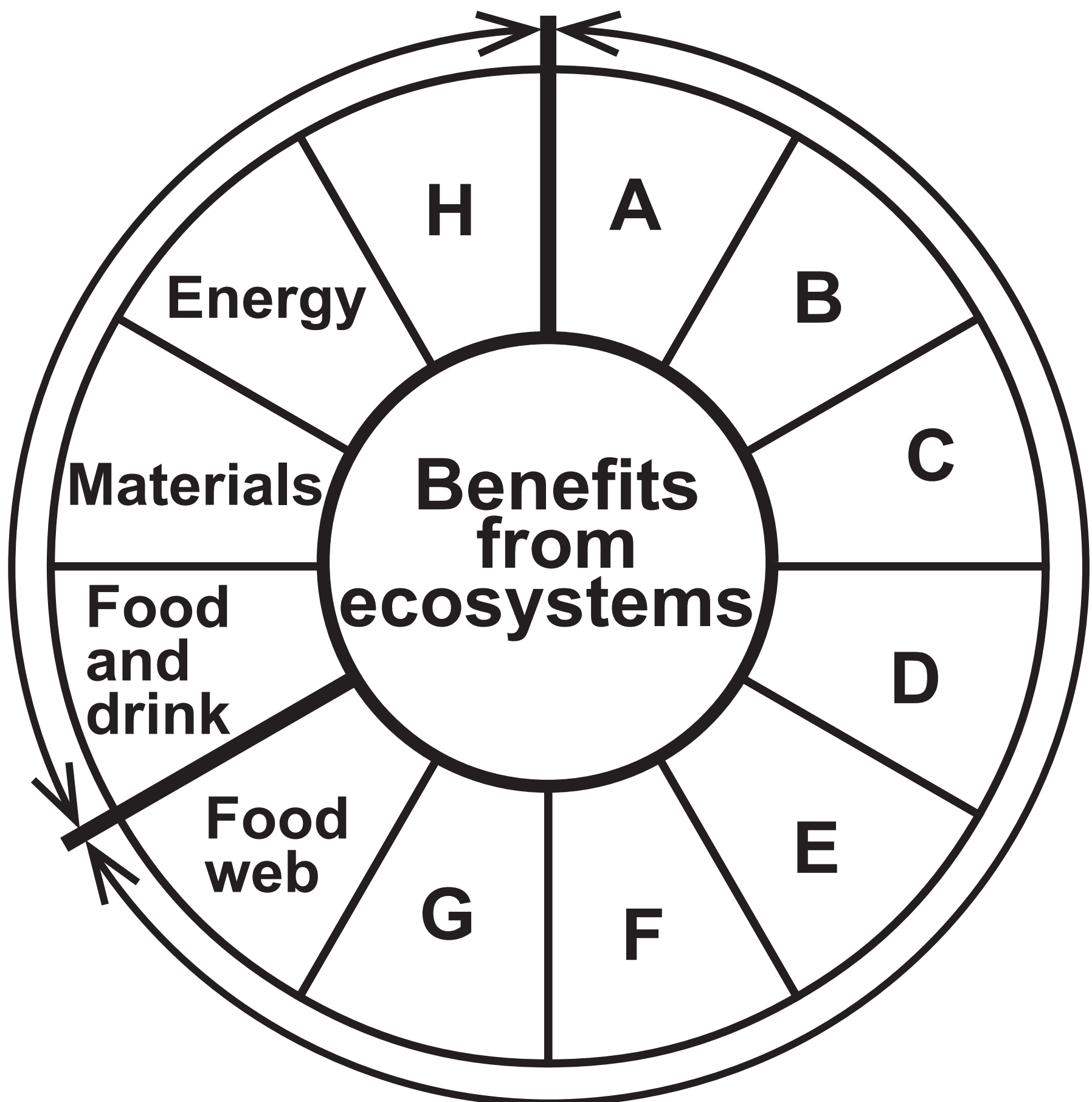
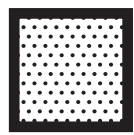


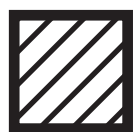
Figure 3a – Key

Aerial photograph of Frankfurt, Germany

KEY



Buildings



River



Bridges



Roads



High rise buildings



Boat



Train station

Turn over

Figure 3a – Diagram

Aerial photograph of Frankfurt, Germany

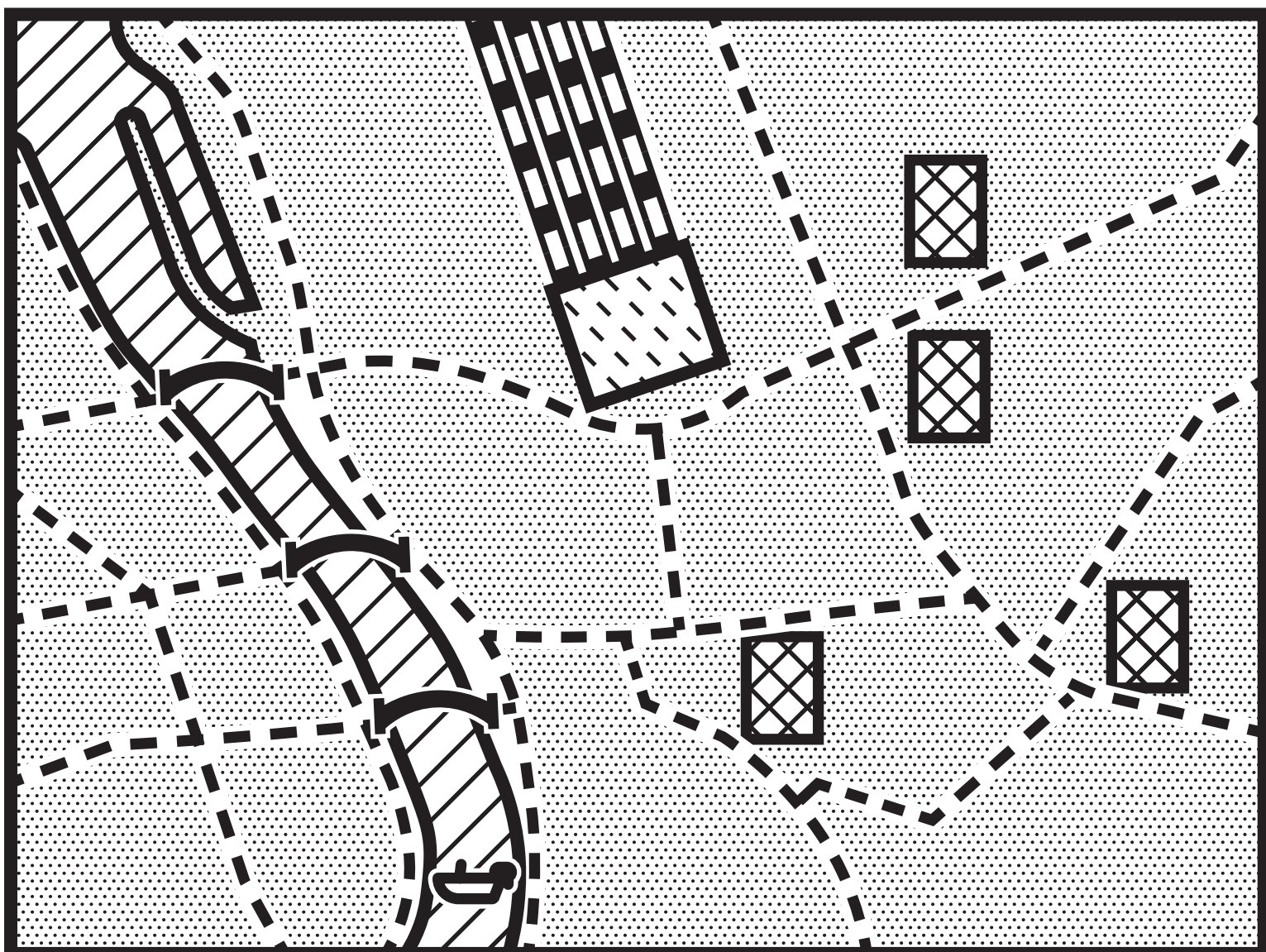


Figure 3b – Key

Air quality in selected cities

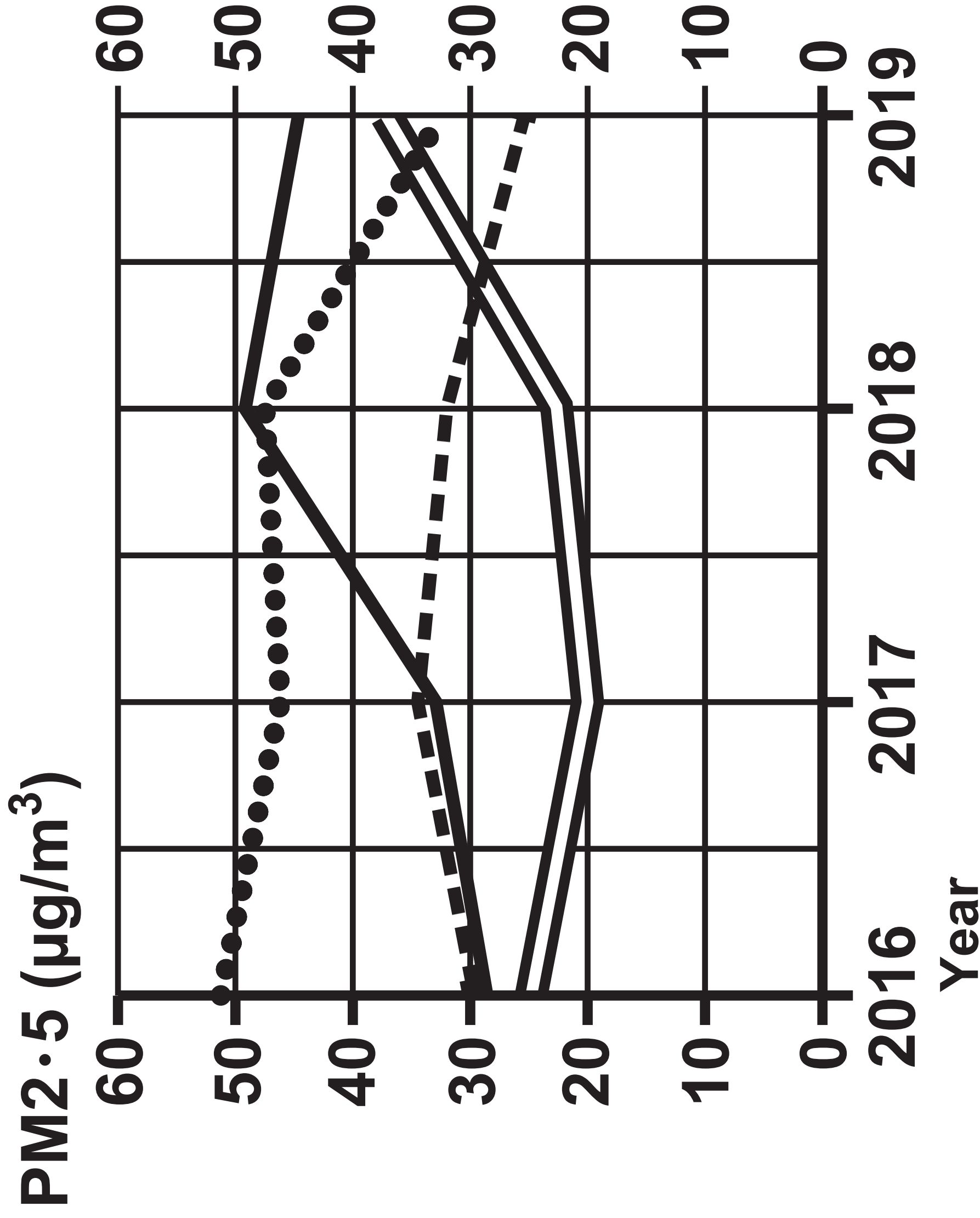
Note: Particulate matter 2·5 (PM2·5), refers to tiny particles or droplets in the air that are 2·5 microns or less in width.

KEY: CITY

- Bengaluru (India)
- ■ Katowice (Poland)
- Abu Dhabi (United Arab Emirates)
- == Johannesburg (South Africa)

Turn over

Air quality in selected cities



Note: numbers on bars indicate the number of each city type

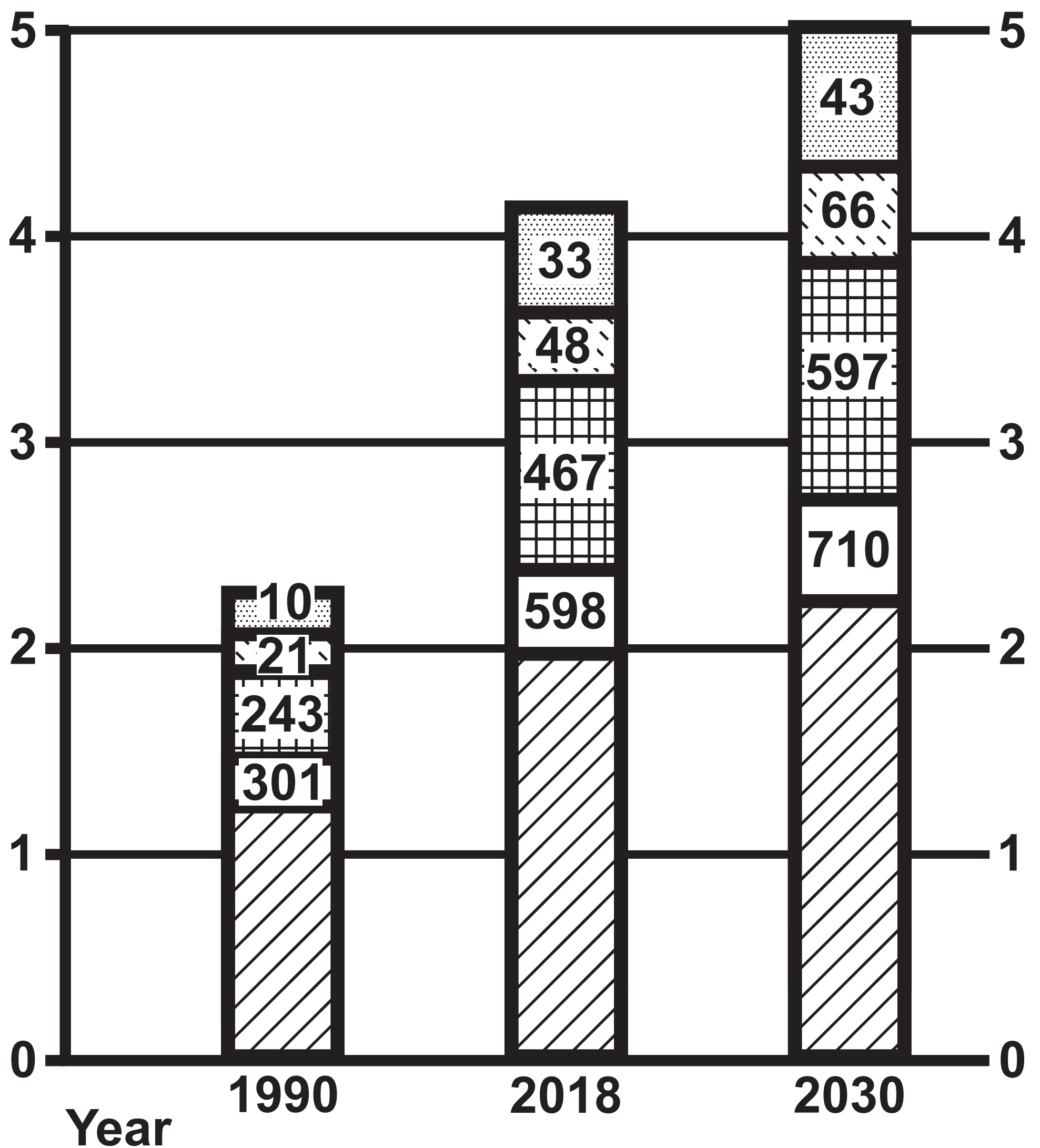
***Number in Small cities category unknown**

KEY

-  **Mega cities**
Population: More than 10 million.
Examples: New York, Tokyo, Lagos
-  **Large cities**
Population: 5 to 10 million. Examples:
Houston, Toronto, Hong Kong
-  **Mid-sized cities**
Population: 1 to 5 million. Examples:
Vancouver, Prague, Brisbane
-  **Regional cities**
Population: 500,000 to 1 million.
Examples: Syracuse, Ann Arbor,
Liverpool
-  **Small cities***
Population: Less than 500,000.
Examples: Boulder, Halifax,
Christchurch

Turn over

Figure 3c – Diagram
Global urban population and
city numbers, 1990, 2018 and
projections to 2030, by size of city
Population size
(billions)



SECTION B

Figure 4a

Fieldwork equipment and
data collection methods used

Fieldwork equipment	Data collection methods
Mobile phone (with camera)	Review of newspaper articles
Environmental quality survey sheet	Photographs
Interview guide	Environmental quality survey
	Interviews

Figure 4b
Interview guide

Interview guide				
Q1	To which age group do you belong? _____			
Q2	How long have you lived in this area? Under 1–5 5–10 10 years a year years years + <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
Q3	What are your views on renewable energy? _____ _____			

(continued on the next page)

Turn over

Figure 4b continued.

Interview guide

Q4 | Do you support the construction of a new wind farm?

Yes

No



Q5 What do you think the land should be used for?

Q6 On a scale of 1–5 what impact do you think the new wind farm will have on the local area?

1

2

3

4

5



(Very negative)

(Very positive)

Figure 5a

Fieldwork equipment and
data collection methods used

Fieldwork equipment	Data collection methods
Mobile phone (with camera)	Review of newspaper articles
Environmental quality survey sheet	Photographs
Interview guide	Environmental quality survey
	Interviews

Figure 5b
Interview guide

Interview guide				
Q1	To which age group do you belong? _____			
Q2	How long have you lived in this area? Under 1–5 5–10 10 years a year years years + <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
Q3	What are your views on trains as a form of transport? _____ _____			

(continued on the next page)

Turn over

Figure 5b continued.

Interview guide

Q4 | Do you support the construction of the new train line?

Yes

No



Q5 What do you think the land should be used for?

Q6 On a scale of 1–5 what impact do you think the new train line will have on the local area?

1

2

3

4

5



(Very negative)

(Very positive)

Figure 6a

Fieldwork equipment and
data collection methods used

Fieldwork equipment	Data collection methods
Mobile phone (with camera)	Review of newspaper articles
Environmental quality survey sheet	Photographs
Interview guide	Environmental quality survey
	Interviews

Figure 6b
Interview guide

Interview guide				
Q1	To which age group do you belong? _____			
Q2	How long have you lived in this area? Under 1–5 5–10 10 years a year years years + <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
Q3	What are your views on trains as a form of transport? _____ _____			

(continued on the next page)

Turn over


Figure 6b continued.

Interview guide

Q4 | Do you support the construction of the new train line?

Yes

No



Q5 What do you think should be a development priority for the city?

Q6 On a scale of 1–5 what impact do you think the new train line will have on the local area?

1

2

3

4

5



(Very negative)

(Very positive)

SECTION C

Figure 7a – Key (Colour)

Global distribution of drought risk

KEY



High (0·81–1·0)



Medium to high (0·61–0·8)



Medium (0·41–0·6)



Low to medium (0·21–0·4)



Low (0·0–0·2)



No data

Turn over

Figure 7a – Diagram (Colour) – Part 1

Global distribution of drought risk

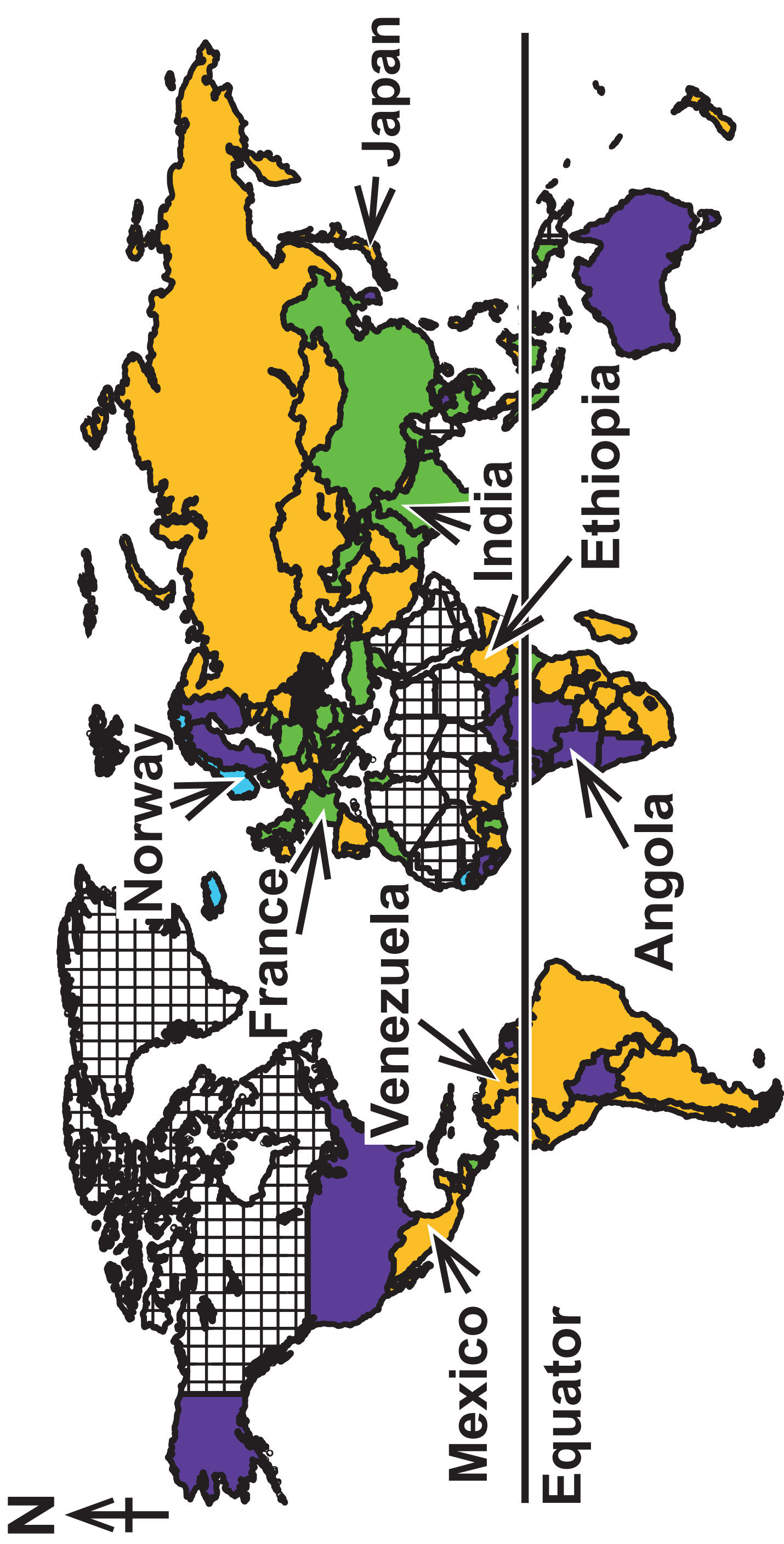


Figure 7a – Diagram (Colour) – Part 2

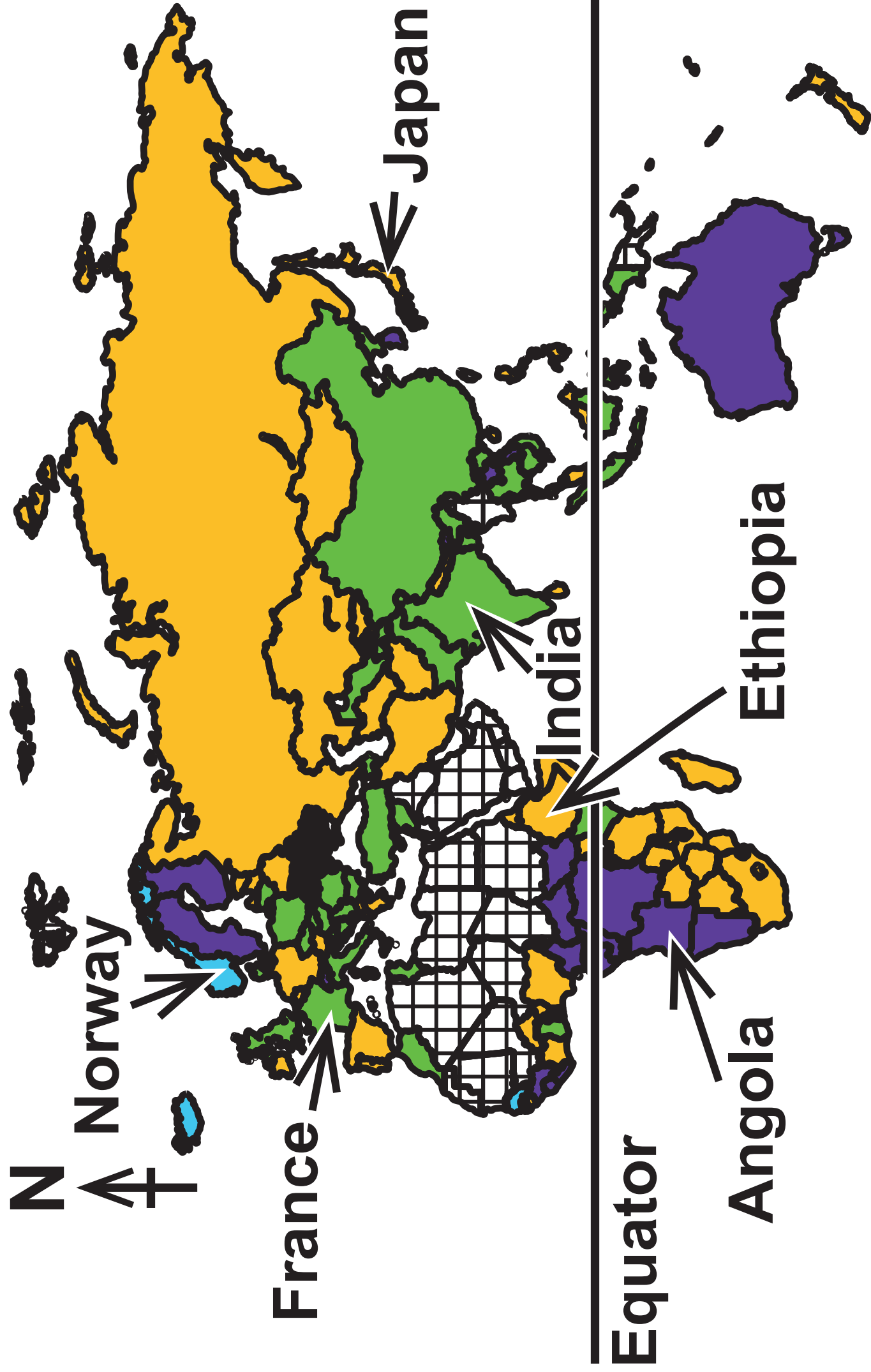
Global distribution of drought risk



Turn over

Figure 7a – Diagram (Colour) – Part 3

Global distribution of drought risk



Turn over

Figure 7a – Key (Black and White)

Global distribution of drought risk

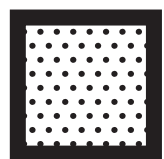
KEY



High (0·81–1·0)



Medium to high (0·61–0·8)



Medium (0·41–0·6)



Low to medium (0·21–0·4)



Low (0·0–0·2)

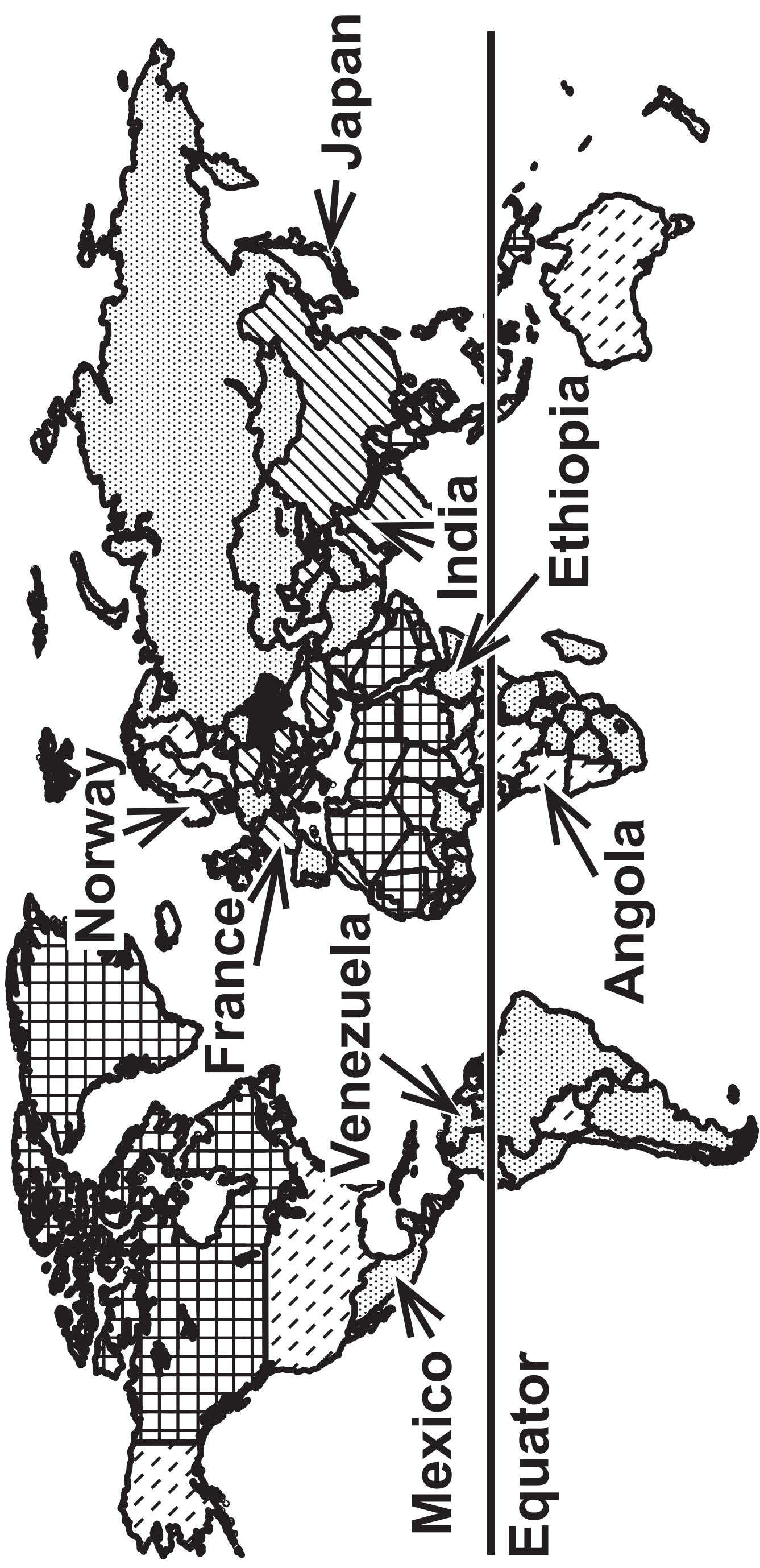


No data

Turn over

Figure 7a – Diagram (Black and White) – Part 1

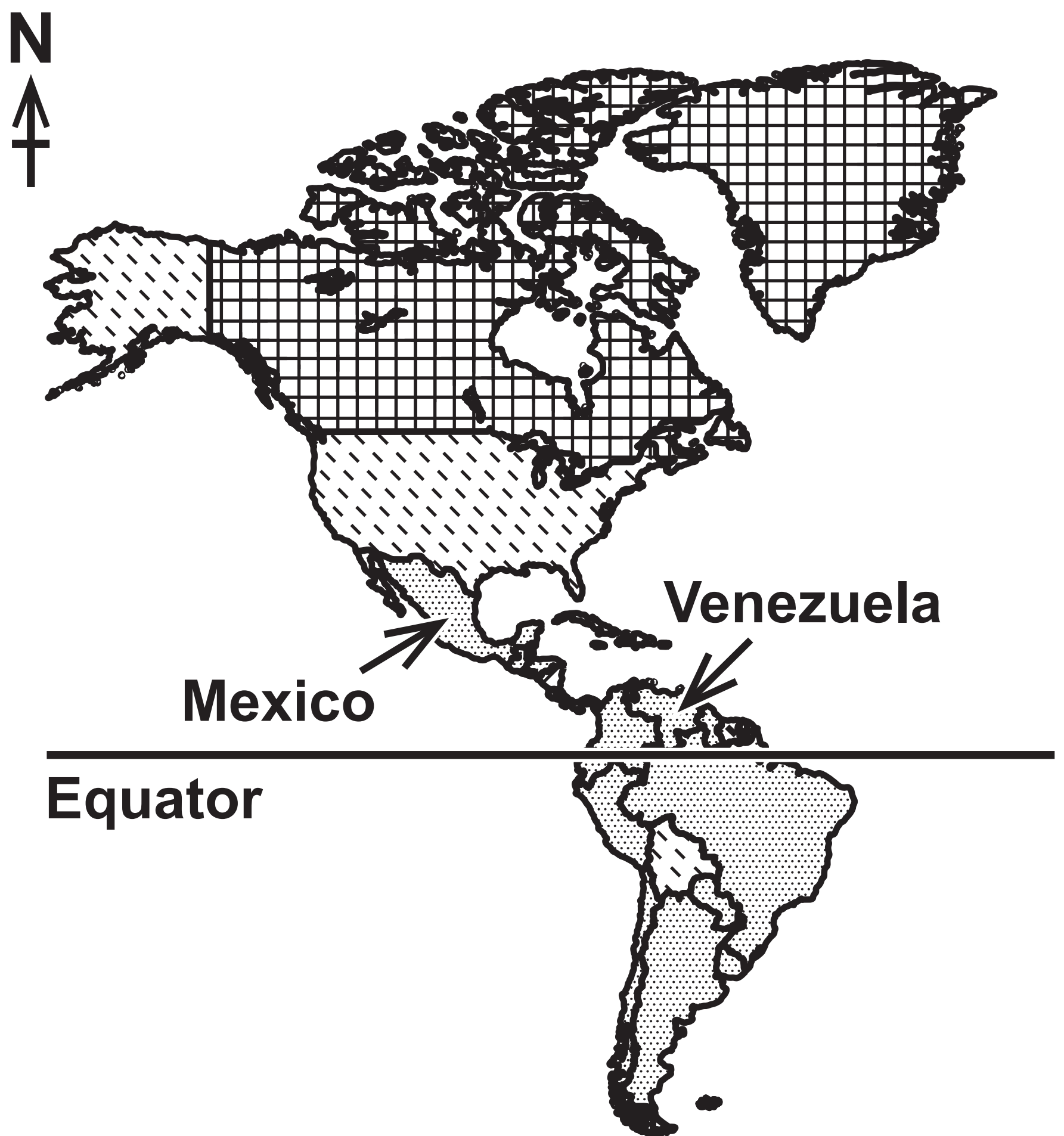
Global distribution of drought risk



Turn over

Figure 7a – Diagram (Black and White) – Part 2

Global distribution of drought risk



Turn over

Figure 7a – Diagram (Black and White) – Part 3

Global distribution of drought risk

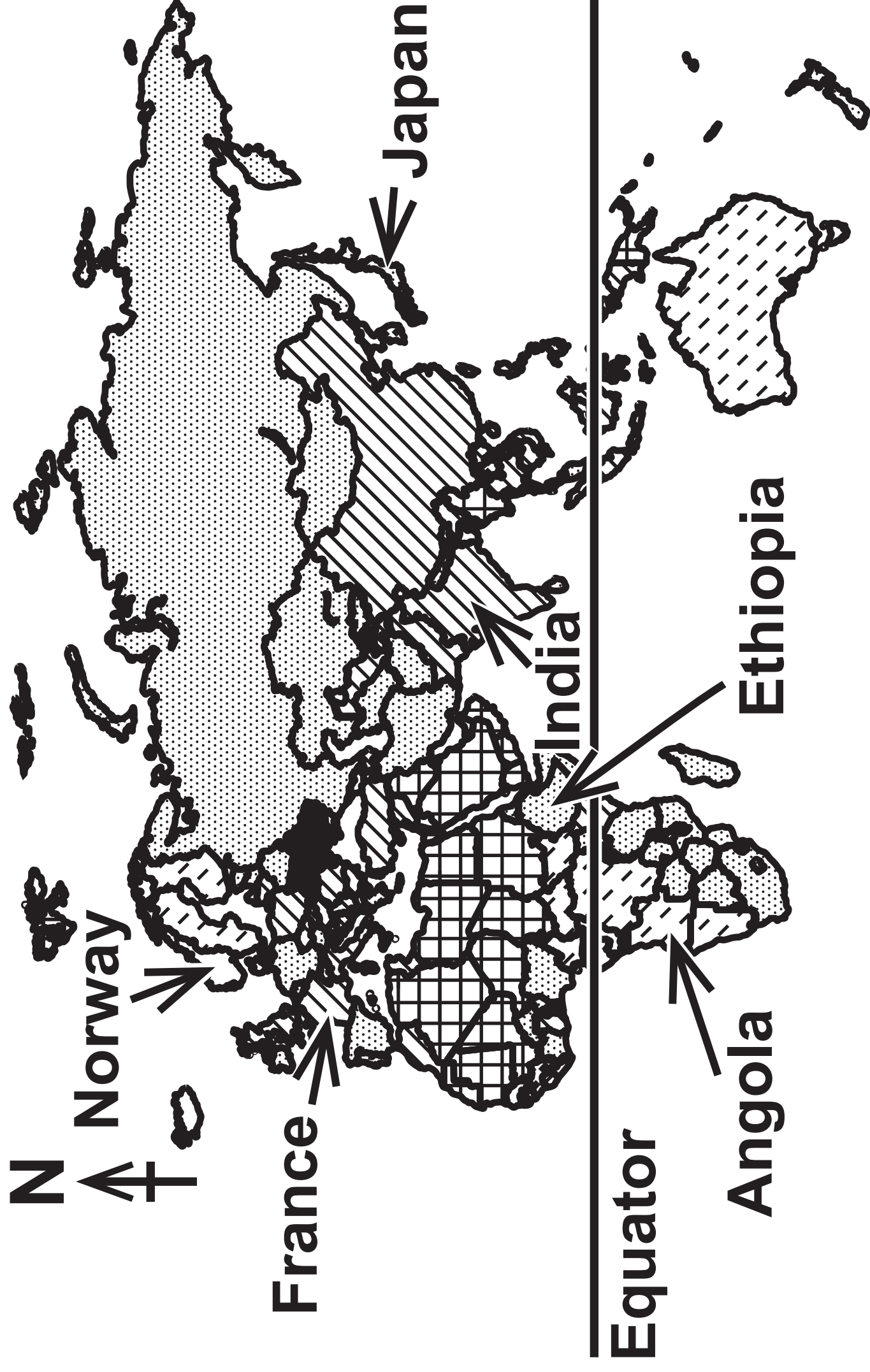


Figure 7b – Key Information on global forest loss, 2001–2015

KEY: Cause of forest loss



Wildfires



**Deforestation for logging to
make paper and pulp**



**Deforestation from agriculture,
mining and urbanisation**

A. Central and South America

B. Southeast Asia

C. Africa

D. North America

E. Russia, China, South Asia

F. Europe

G. Oceania

Turn over

Figure 7b – Diagram

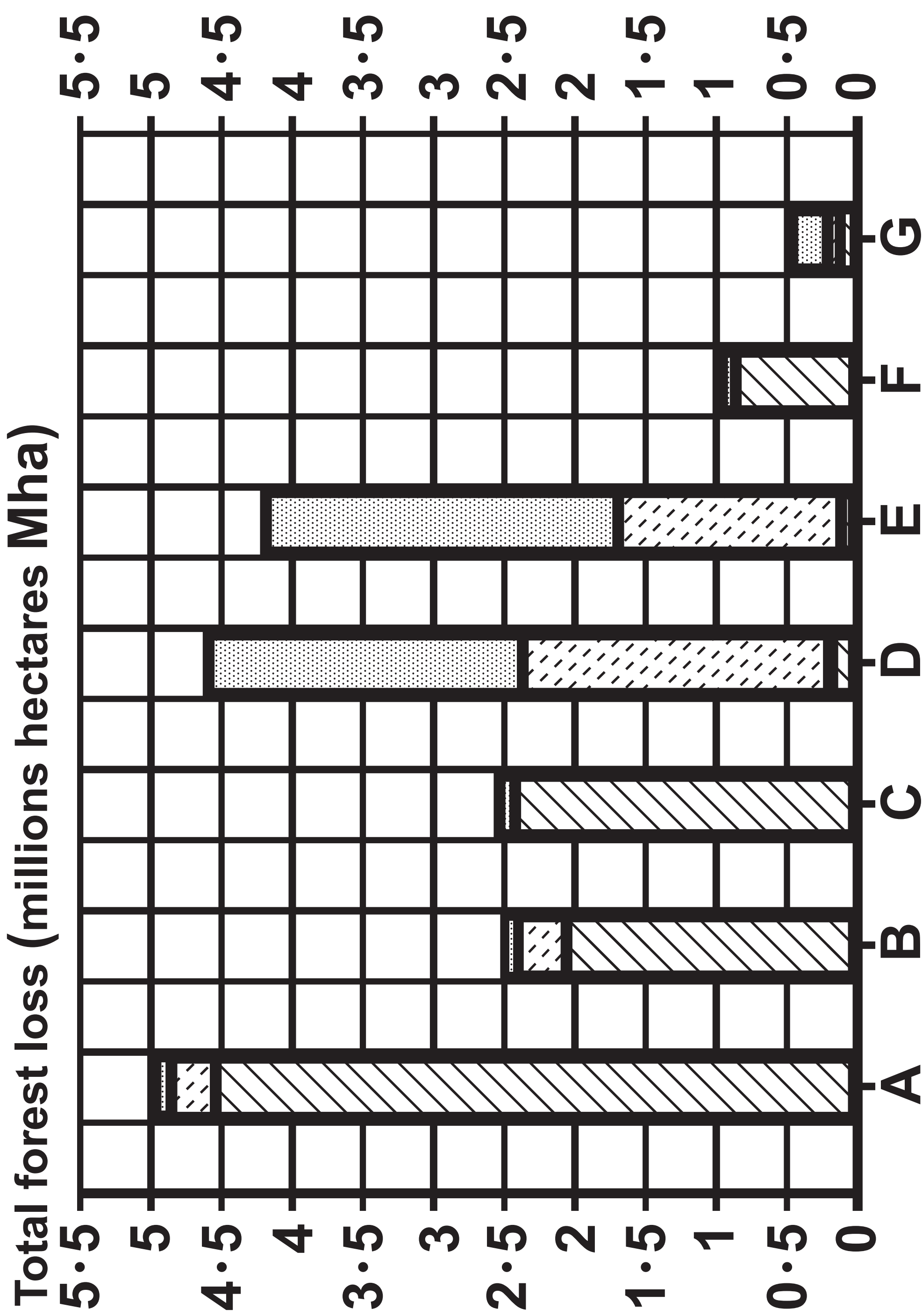


Figure 7c

Selected impacts of deforestation

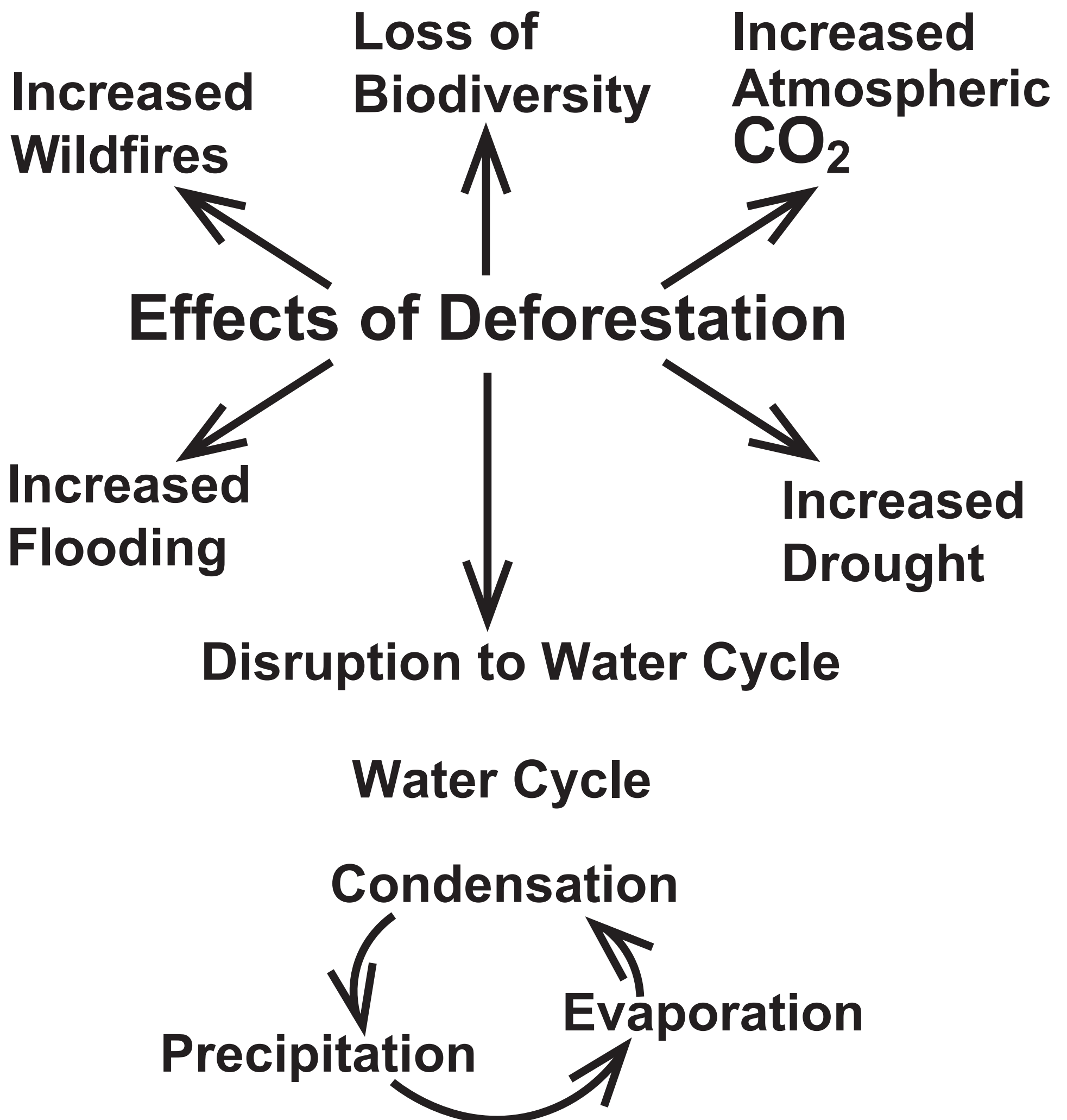


Figure 8a – Key (Colour)

Net annual migration per 1000 population,
2017–2021

KEY

Positive



0 to 4.9



5 to 9.9



10 to 45

Negative



0 to -4.9



-5 to -9.9



-10 to -42

Figure 8a – Diagram (Colour) – Part 1
Net annual migration per 1000 population,
2017–2021

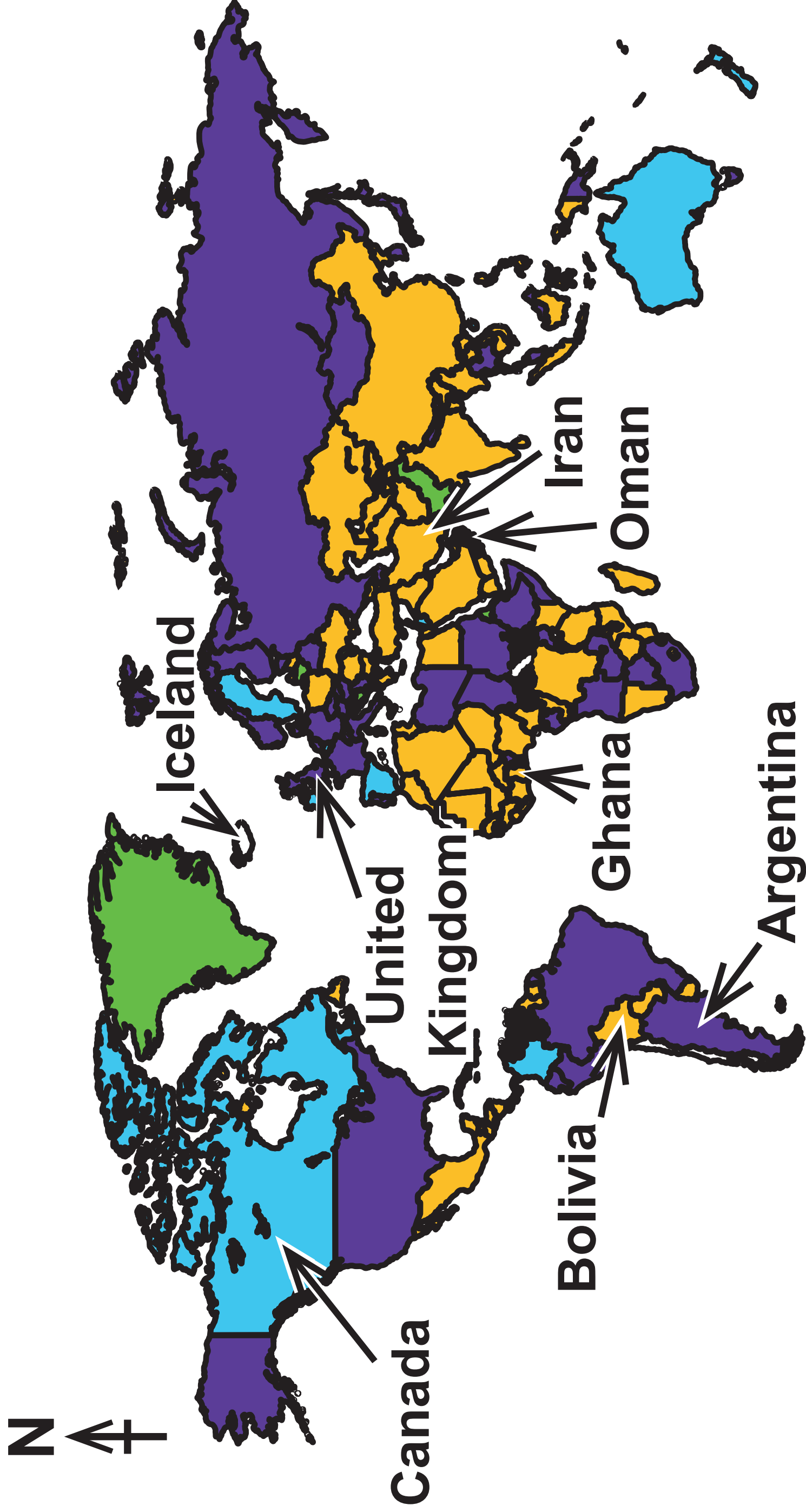


Figure 8a – Diagram (Colour) – Part 2

Net annual migration per 1000
population, 2017–2021



Turn over

Figure 8a – Diagram (Colour) – Part 3
Net annual migration per 1000 population,
2017–2021

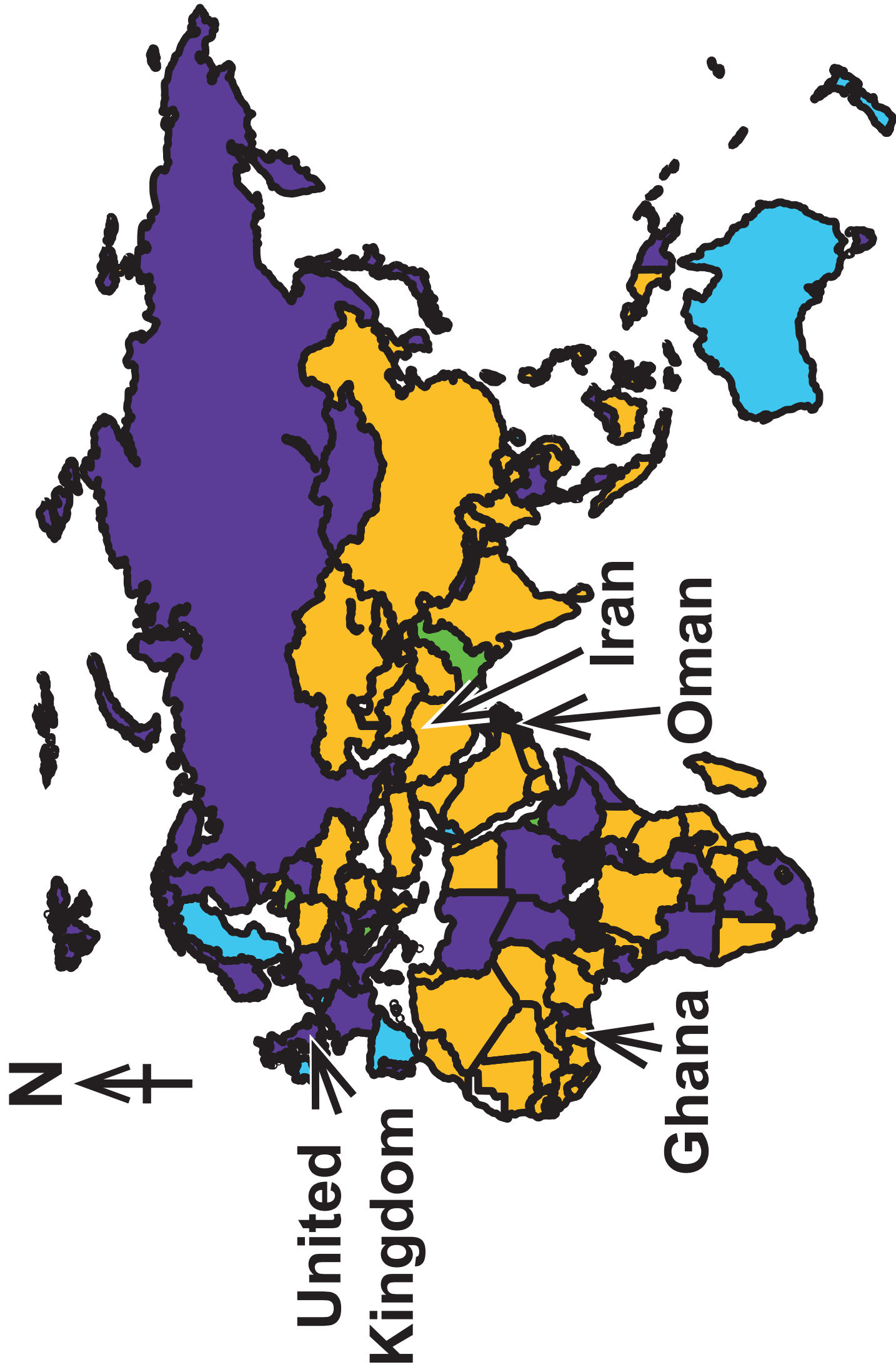
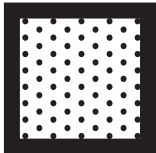


Figure 8a – Key (Black and White)

Net annual migration per 1000 population,
2017–2021

KEY

Positive



0 to 4.9



5 to 9.9



10 to 45

Negative



0 to –4.9

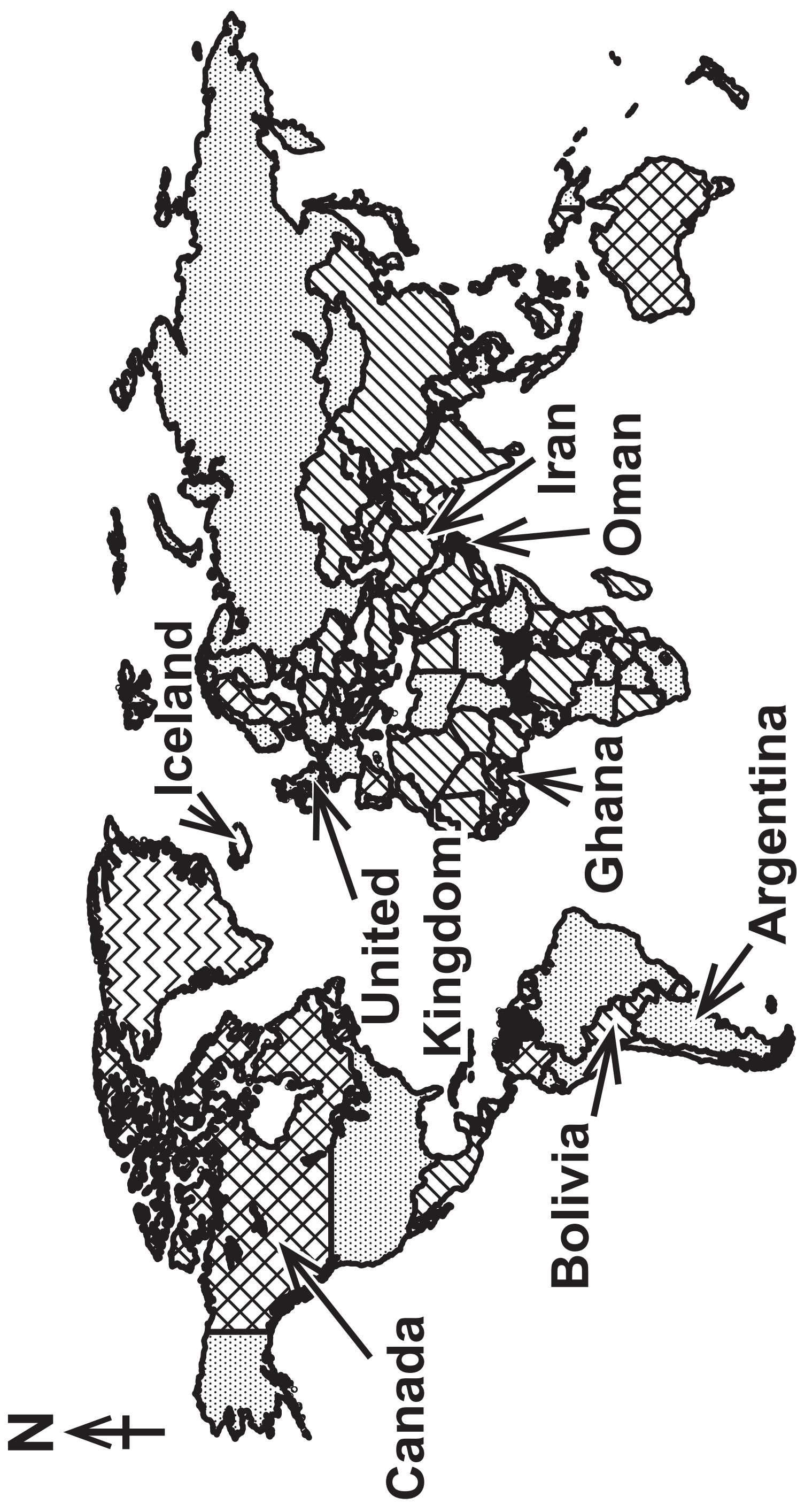


–5 to –9.9



–10 to –42

Figure 8a – Diagram (Black and White) – Part 1
Net annual migration per 1000 population,
2017–2021



Turn over

Figure 8a – Diagram (Black and White) – Part 2

Net annual migration per 1000 population, 2017–2021



Turn over

Figure 8a – Diagram (Black and White) – Part 3
Net annual migration per 1000 population,
2017–2021

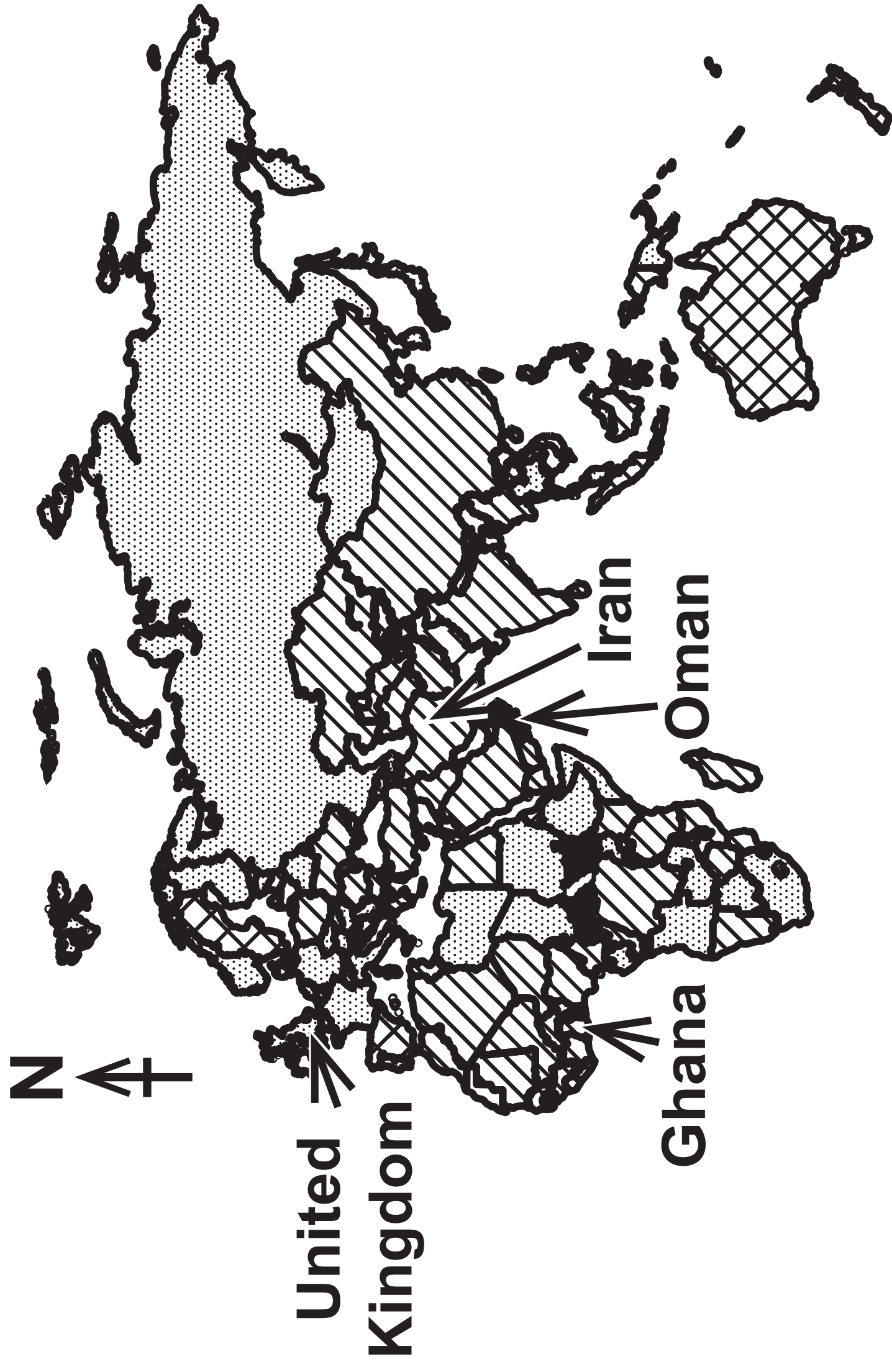


Figure 8b

Development aid received per capita for selected countries, 1999–2019

KEY

== South Sudan - - Rwanda
— Somalia ••• Ethiopia

Development aid received per capita (US\$)

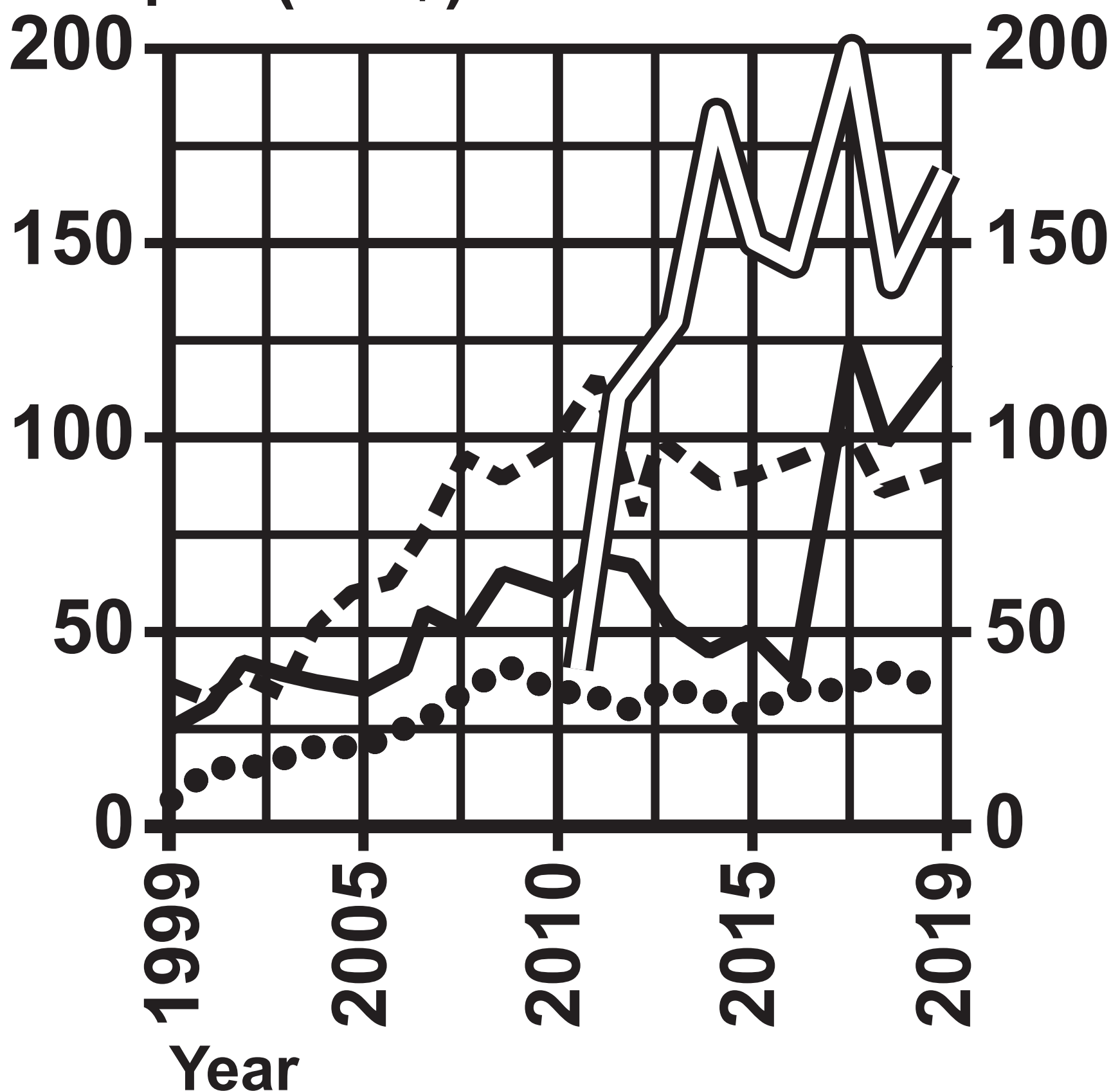


Figure 8c – Information Information on the Regional Comprehensive Economic Partnership (RCEP) trade bloc

Key facts

Countries: 15

Population: 2.2 billion

Combined GDP: US\$26.2 trillion

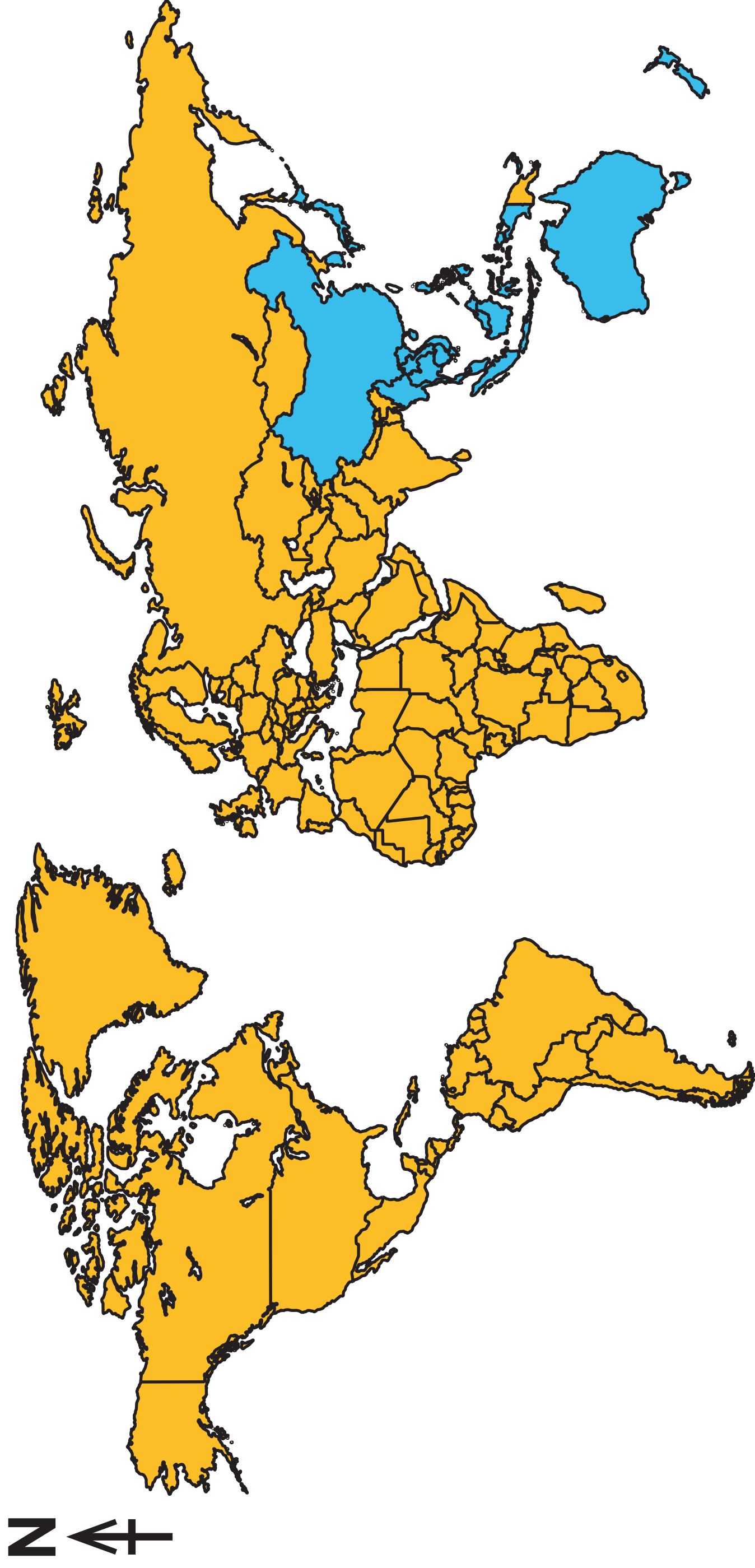
Share of global trade: 28%

Share of global economic output: 30%

Year established: 2022

Figure 8c – Diagram (Colour)

15 countries sign world's biggest free trade deal
(indicated in blue)



Turn over

Figure 8c – Diagram (Black and White)

**15 countries sign world's biggest free trade deal
(indicated in dotted shading)**

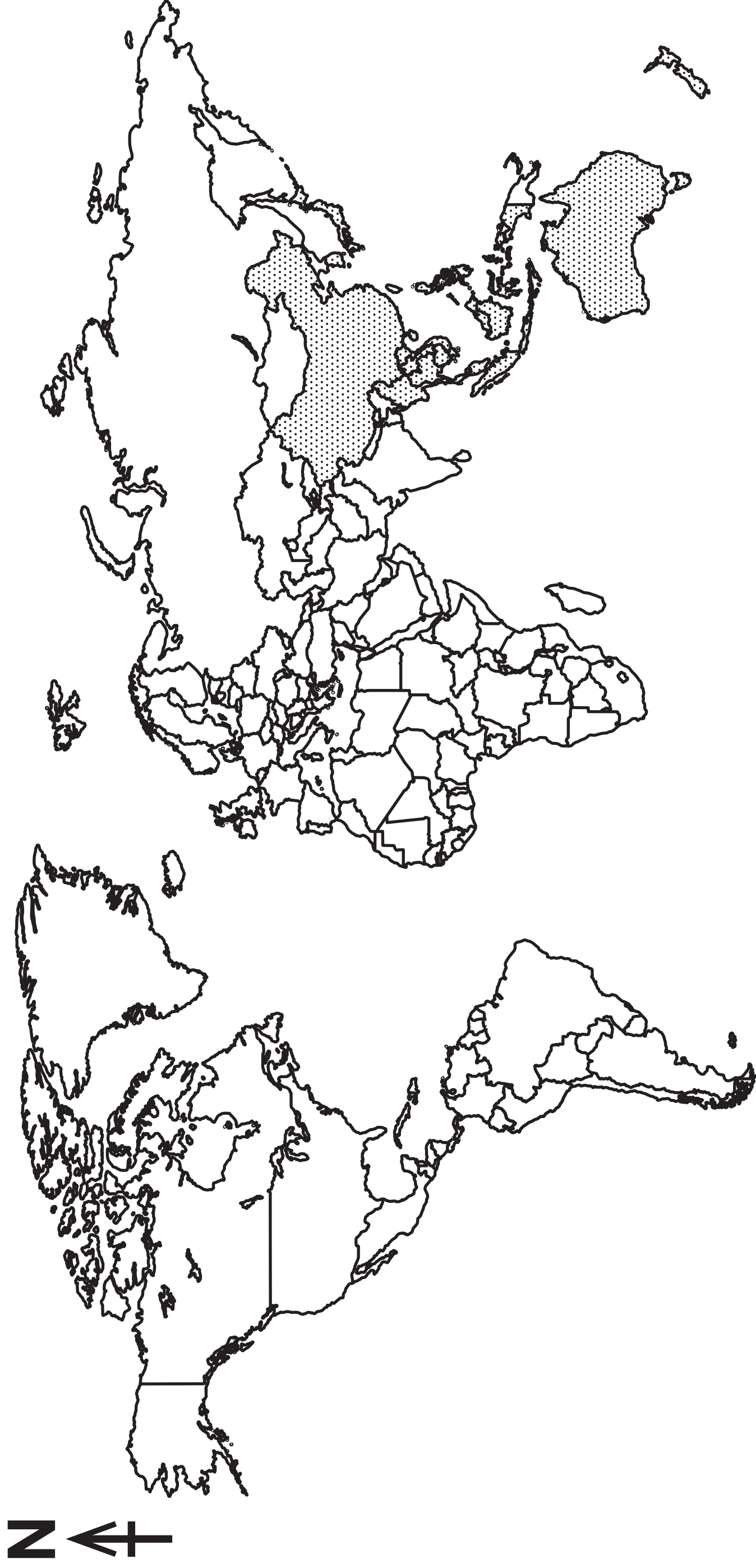


Figure 9a – Key (Colour)

Life expectancy, 2022

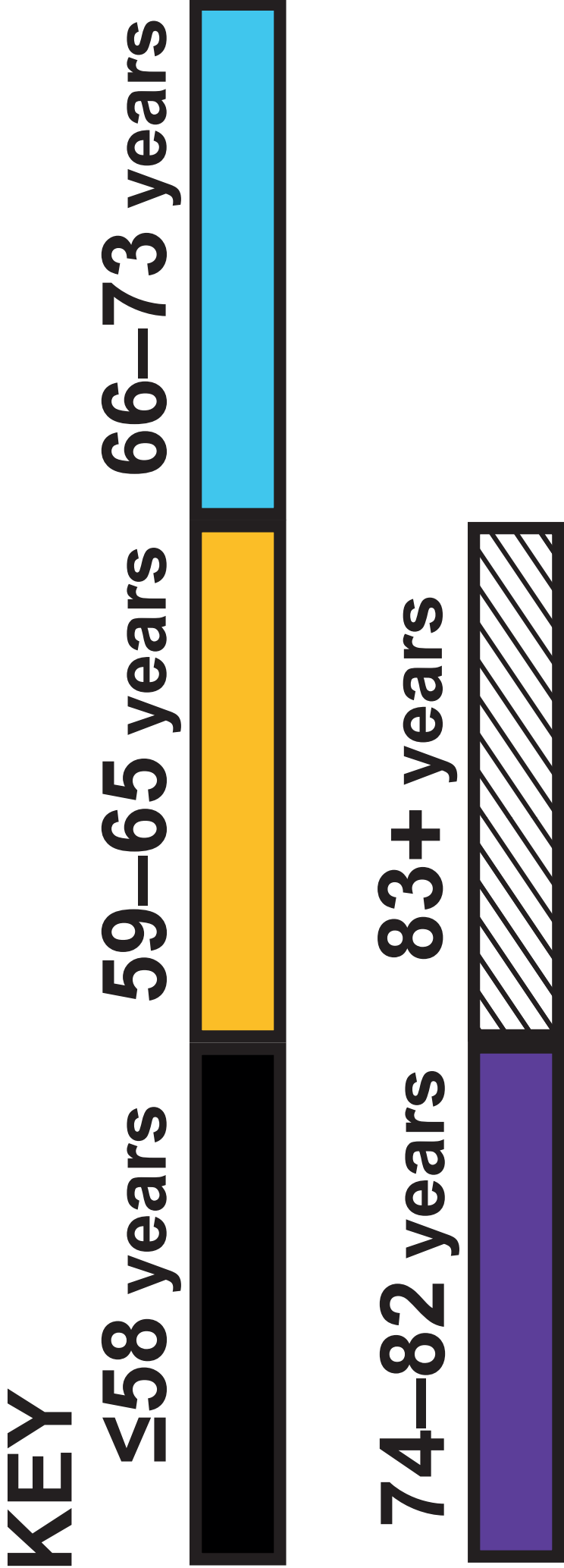
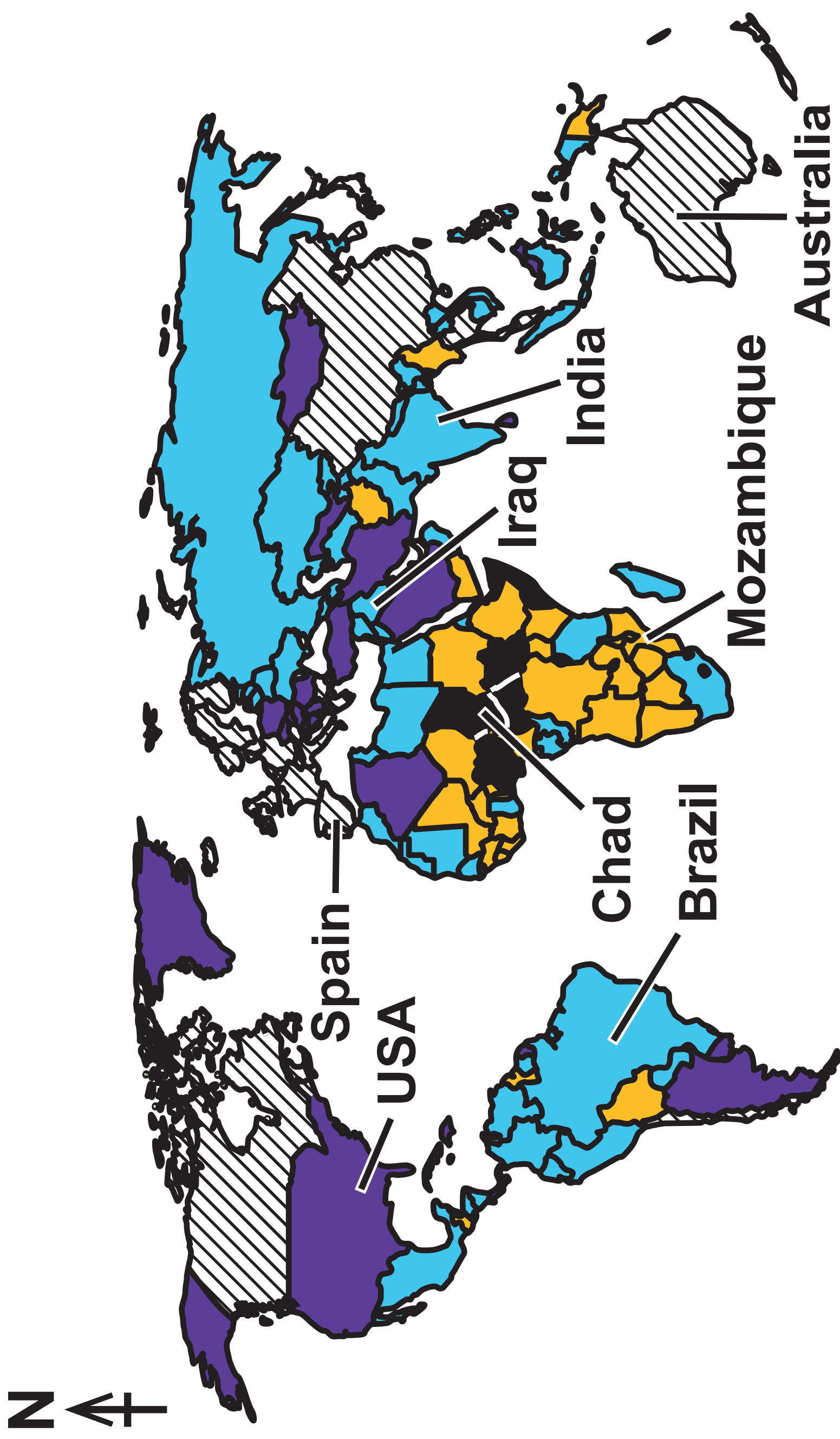


Figure 9a – Diagram (Colour) – Part 1

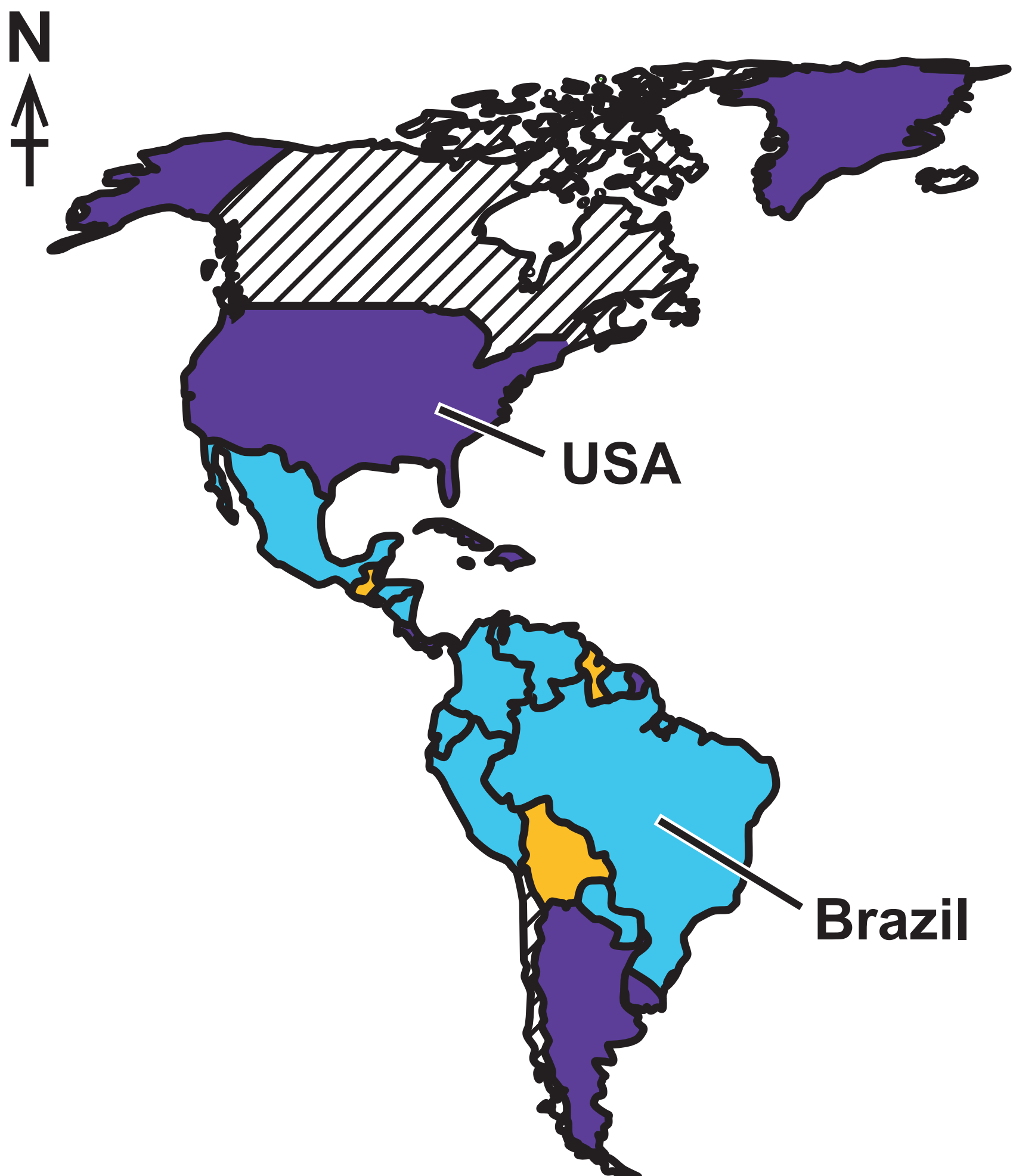
Life expectancy, 2022



Turn over

Figure 9a – Diagram (Colour) – Part 2

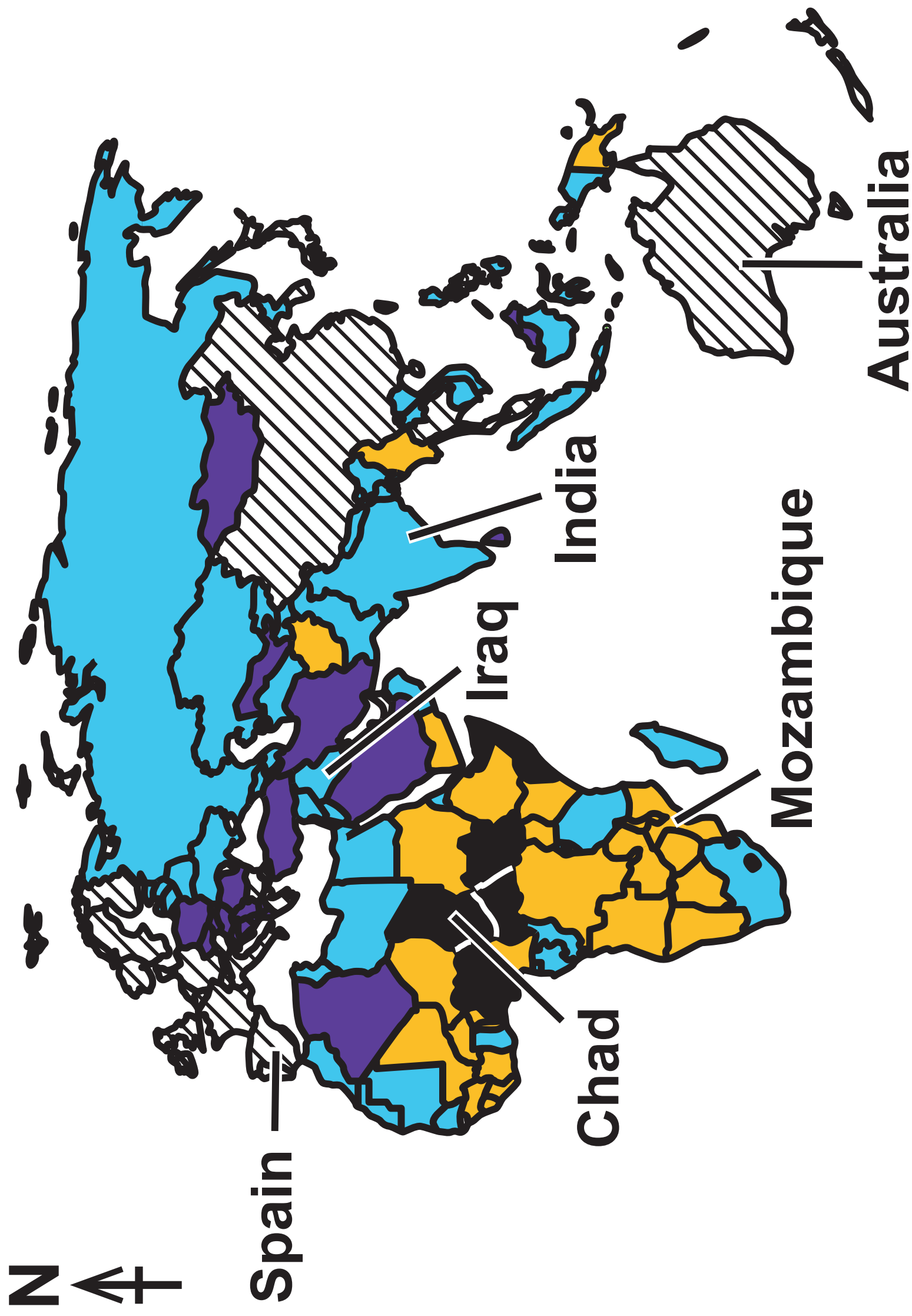
Life expectancy, 2022



Turn over

Figure 9a – Diagram (Colour) – Part 3

Life expectancy, 2022



Turn over

Figure 9a – Key (Black and White)

Life expectancy, 2022



Figure 9a – Diagram (Black and White) – Part 1
Life expectancy, 2022

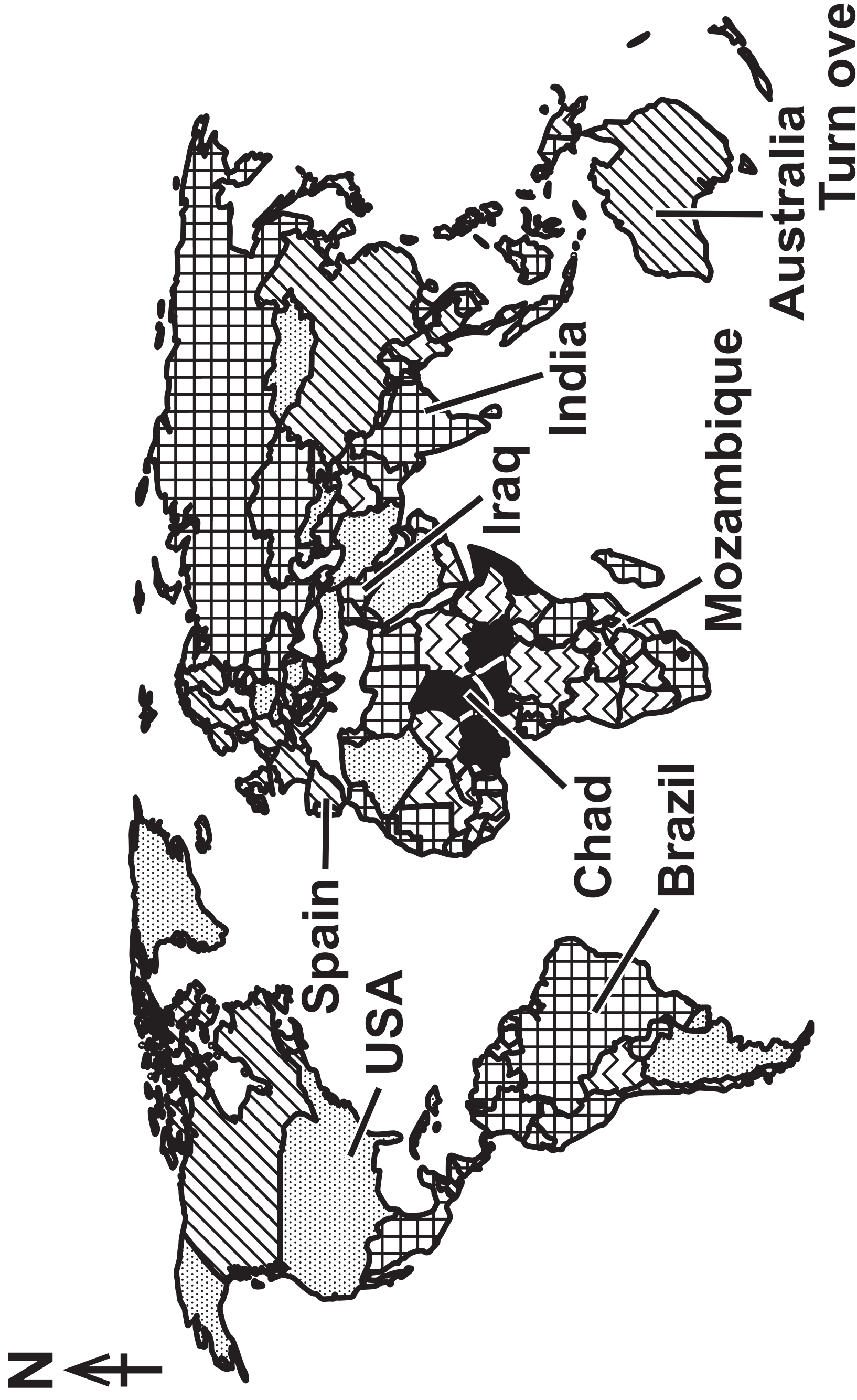
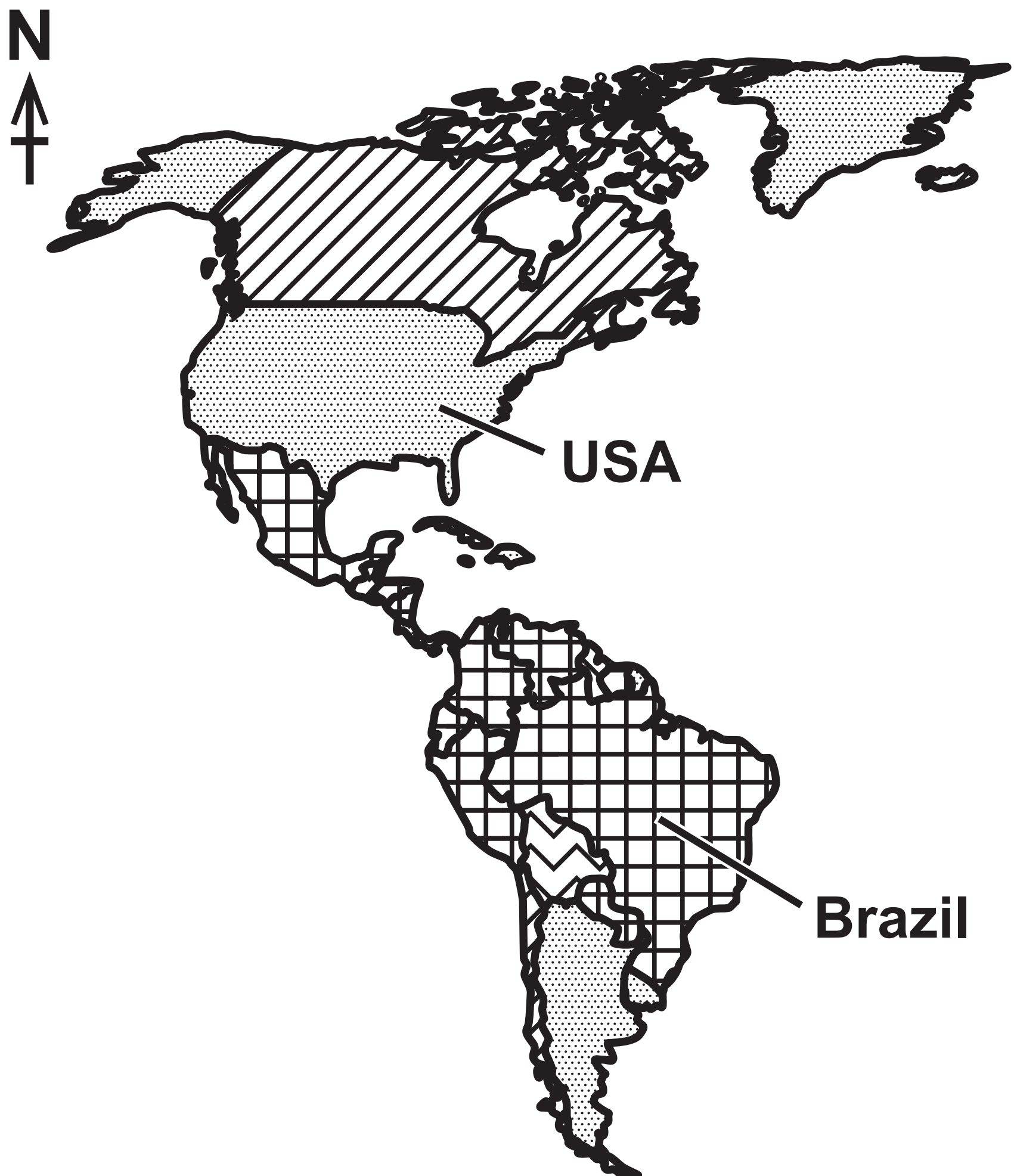


Figure 9a – Diagram (Black and White) – Part 2

Life expectancy, 2022



Turn over

Figure 9a – Diagram (Black and White) – Part 3

Life expectancy, 2022

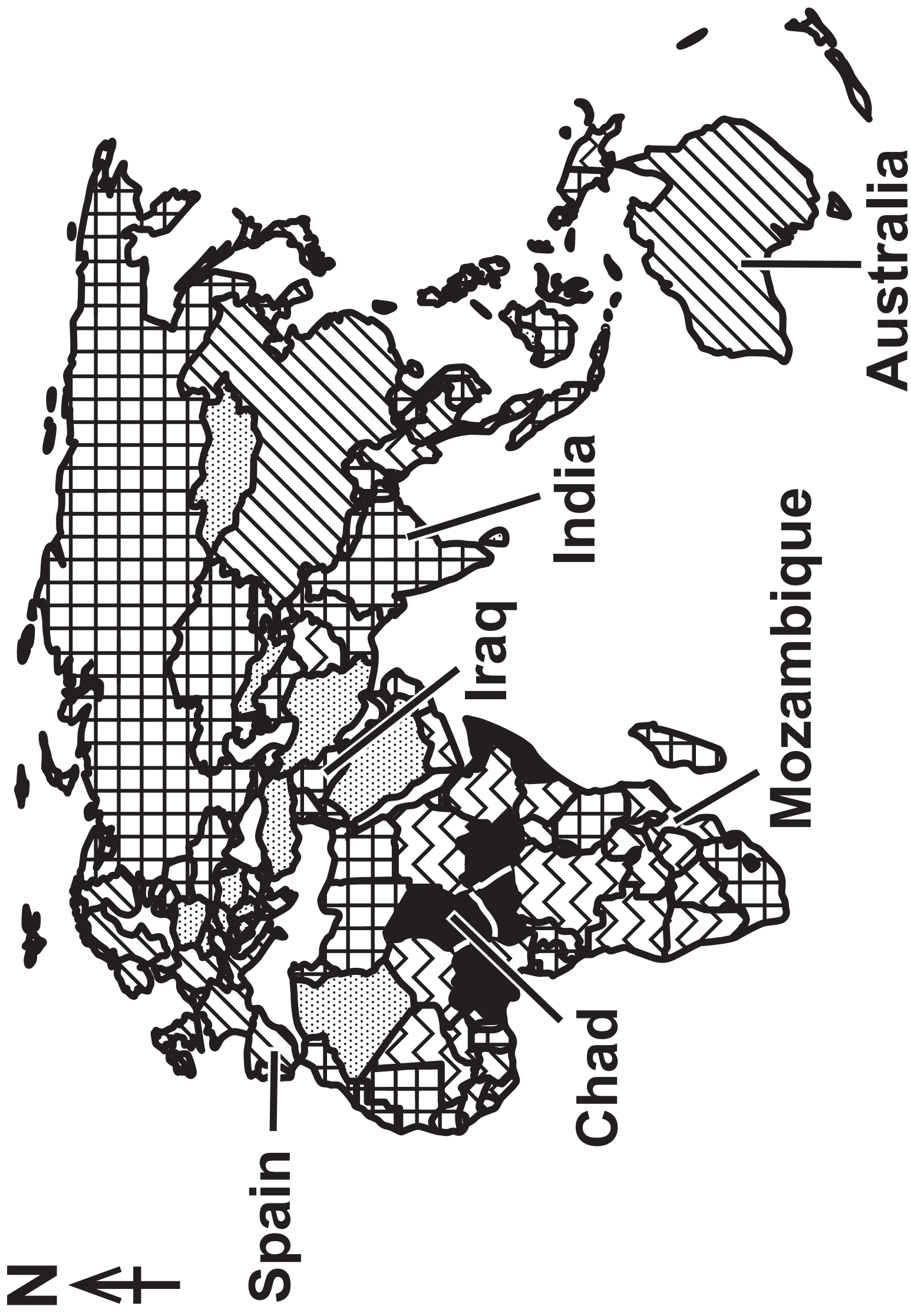


Figure 9b – Key Number of people affected by food insecurity for selected countries, 2015–2019

KEY

- Nigeria
- Brazil
- Kenya
- =** Sierra Leone
- Indonesia

Figure 9b – Diagram
Number of people affected by
food insecurity for selected
countries, 2015–2019

Number of people (millions)

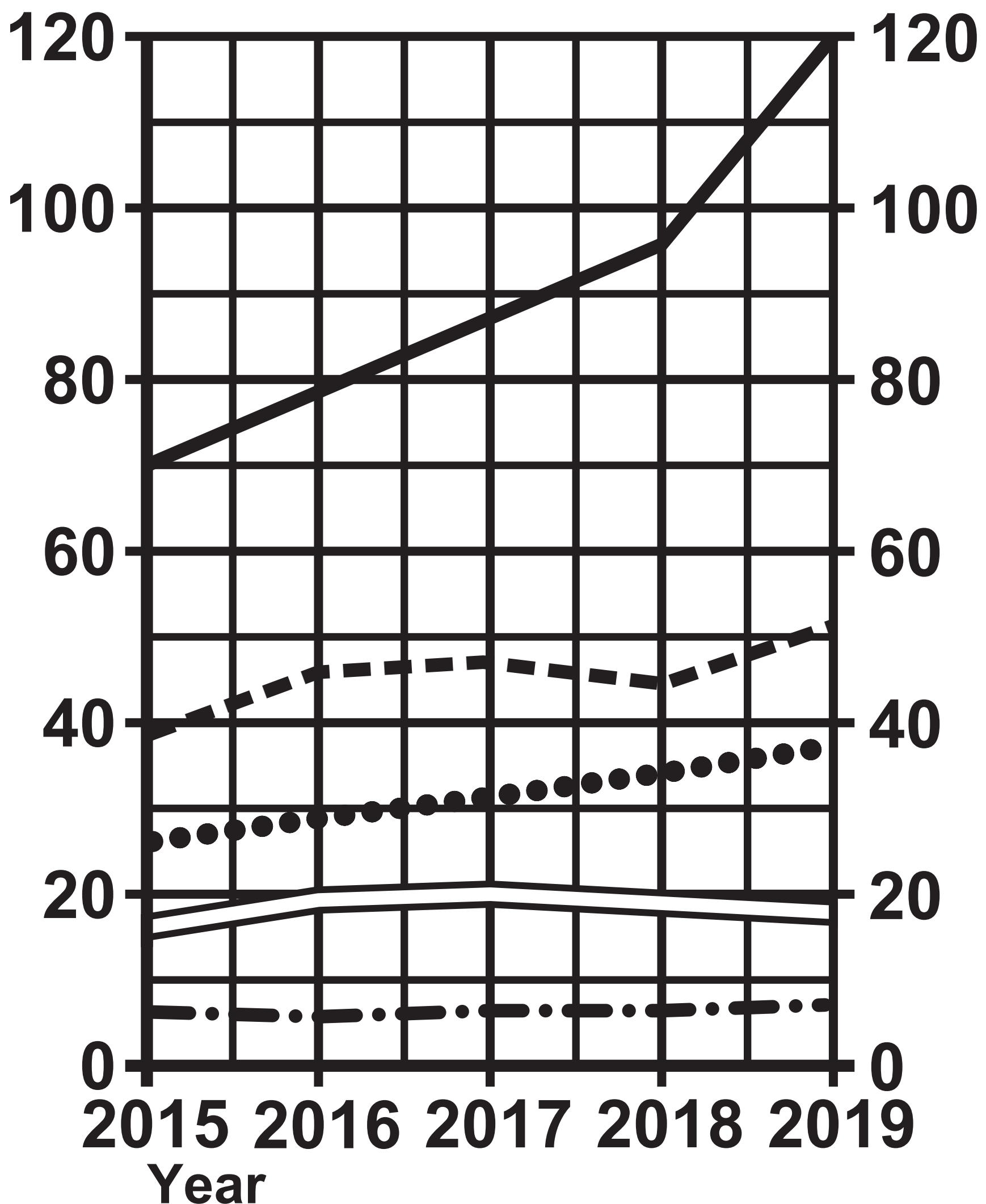


Figure 9c – Key

The Human Development Index

(HDI)

Note: GNI is gross national income

KEY

A Long and healthy life

B Knowledge

C A decent standard of living

D Expected years of schooling

E Mean years of schooling

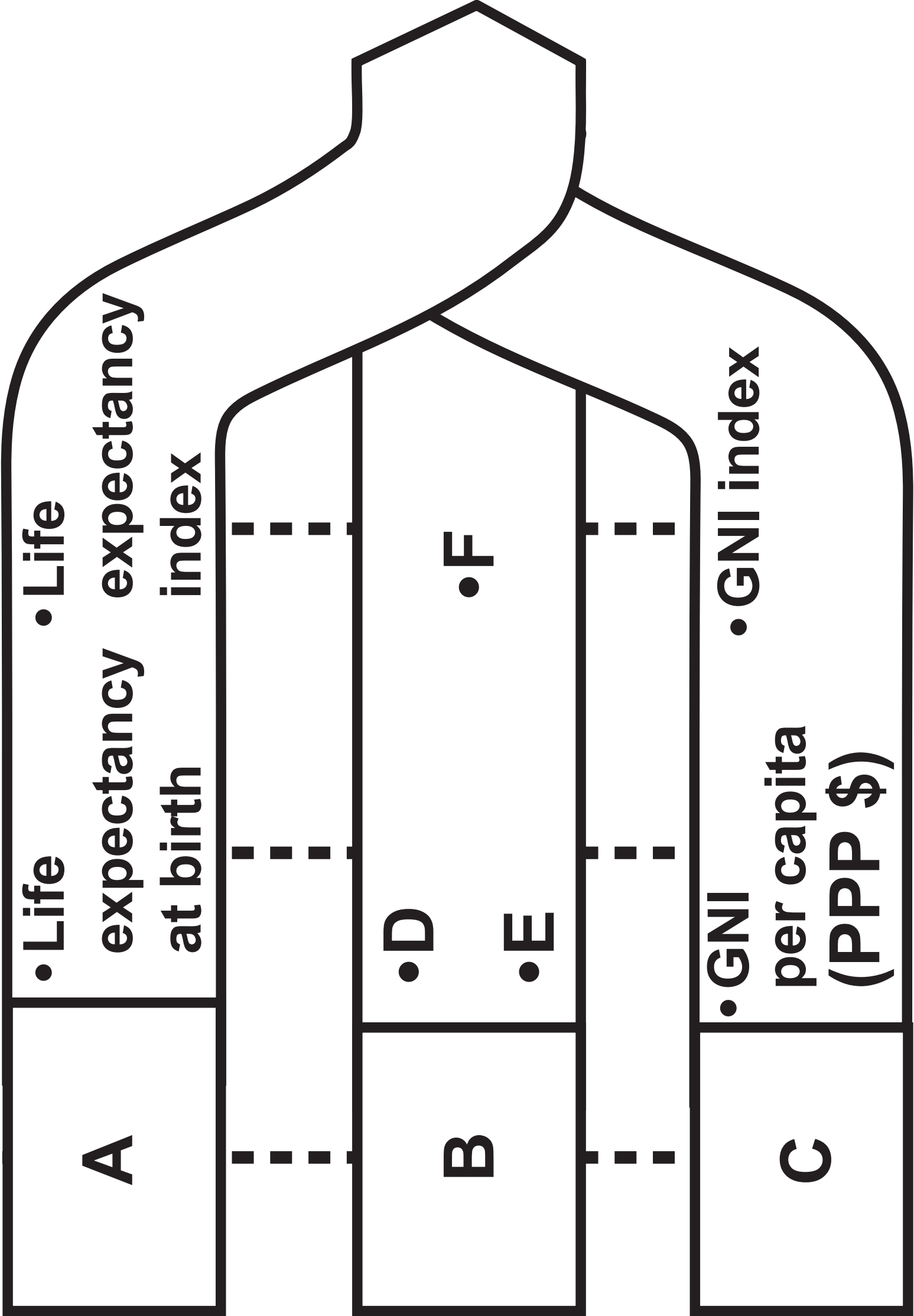
F Education index

Turn over

The Human Development Index (HDI)

Note: GNI is gross national income

Dimensions Indicators Dimension index



Acknowledgements

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