

Victorian Certificate of Education
2022

SUPERVISOR TO ATTACH PROCESSING LABEL HERE

STUDENT NUMBER

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GEOGRAPHY
Written examination

Friday 11 November 2022

Reading time: 11.45 am to 12.00 noon (15 minutes)

Writing time: 12.00 noon to 2.00 pm (2 hours)

QUESTION AND ANSWER BOOK

Structure of book

<i>Number of questions</i>	<i>Number of questions to be answered</i>	<i>Number of marks</i>
9	9	80

- Students are permitted to bring into the examination room: pens, pencils, highlighters, erasers, sharpeners, rulers, coloured pencils, water-based pens and markers.
- Students are NOT permitted to bring into the examination room: blank sheets of paper and/or correction fluid/tape.
- No calculator is allowed in this examination.

Materials supplied

- Question and answer book of 16 pages, including **assessment criteria for extended-answer questions** on page 16
- Data book
- Additional space is available at the end of the book if you need extra space to complete an answer.

Instructions

- Write your **student number** in the space provided above on this page.
- All written responses must be in English.

At the end of the examination

- You may keep the data book.

Students are NOT permitted to bring mobile phones and/or any other unauthorised electronic devices into the examination room.

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Instructions

Answer **all** questions in the spaces provided. Refer to the data book as indicated.

Use Figure 1 on pages 2 and 3 of the data book when responding to Question 1.

Question 1 (6 marks)

Describe two natural characteristics of the Kennicott Glacier that are evident in Figure 1.

Characteristic 1 _____

Characteristic 2 _____

TURN OVER

Question 2 (8 marks)

Evaluate the use and effectiveness of a geospatial technology in assessing and managing changes in ice sheets and glaciers at a selected location. Do not use the data from Figure 1 in the data book.

Use Figure 2 on pages 4 and 5 of the data book when responding to Question 3.

Question 3 (7 marks)

- a. Estimate the percentage of land in Angola in 2000 that was covered in 80 to 100 per cent forest.

1 mark

- b. How strong is the spatial association between regions that are at least 1500 m above sea level and regions that have experienced forest loss between 2000 and 2015? Include **two** examples of data from Figure 2 to support your response.

6 marks

TURN OVER

Question 4 (7 marks)

Explain **two** interconnected causes of deforestation that have occurred at a selected location. Do not use the data from Figure 2 in the data book.

[illegible]

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Question 5 (12 marks)

Name the location of your selected area of fieldwork.

- a.** How is the land use change at your selected area of fieldwork related to your research question?

3 marks

- b.** Outline the time sequence of land use change that has recently occurred, is underway or is planned to occur at your selected area of fieldwork.

2 marks

- 7 marks

[illegible]

Use Figure 3 on pages 6 and 7 of the data book when responding to Question 6.

Question 6 (12 marks)

- a. Compare the contribution to the global population in 1950 and the contribution to the global population projected for 2050 of each of the following age groups:
- aged 0 to 14
 - aged 60 and over

6 marks

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- b. Describe the structure of the global population in 1950 and that projected for 2100.

6 marks

TURN OVER

Question 7 (8 marks)

- a.** How has international migration contributed to population change in **one** selected country of origin?

4 marks

- b.** How has international migration contributed to population change in **one** selected country of destination?

4 marks

Outline **two** strategies that have been developed in response to an issue of a growing population in a selected country. Discuss the environmental **or** economic **or** social impacts that have resulted from these two strategies.

[illegible]

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Question 9 (10 marks)

With reference to a selected country, explain how the impacts of an ageing population and the challenges that result from these impacts may be distributed unevenly.

[illegible]

Clearly number all responses in this space.

[illegible]

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Assessment criteria for extended-answer questions

The extended-answer questions will be assessed against the following criteria, as appropriate:

- application of geographical knowledge and understanding
- demonstration of geographical skills
- description and application of key geographical concepts
- interpretation and analysis of data and other geographical information

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Written examination****Friday 11 November 2022****Reading time: 11.45 am to 12.00 noon (15 minutes)****Writing time: 12.00 noon to 2.00 pm (2 hours)****DATA BOOK****Instructions**

A question and answer book is provided with this data book.

Refer to the data in this book for each question as indicated in the question and answer book.

The data contained in this book is drawn from real-world case studies.

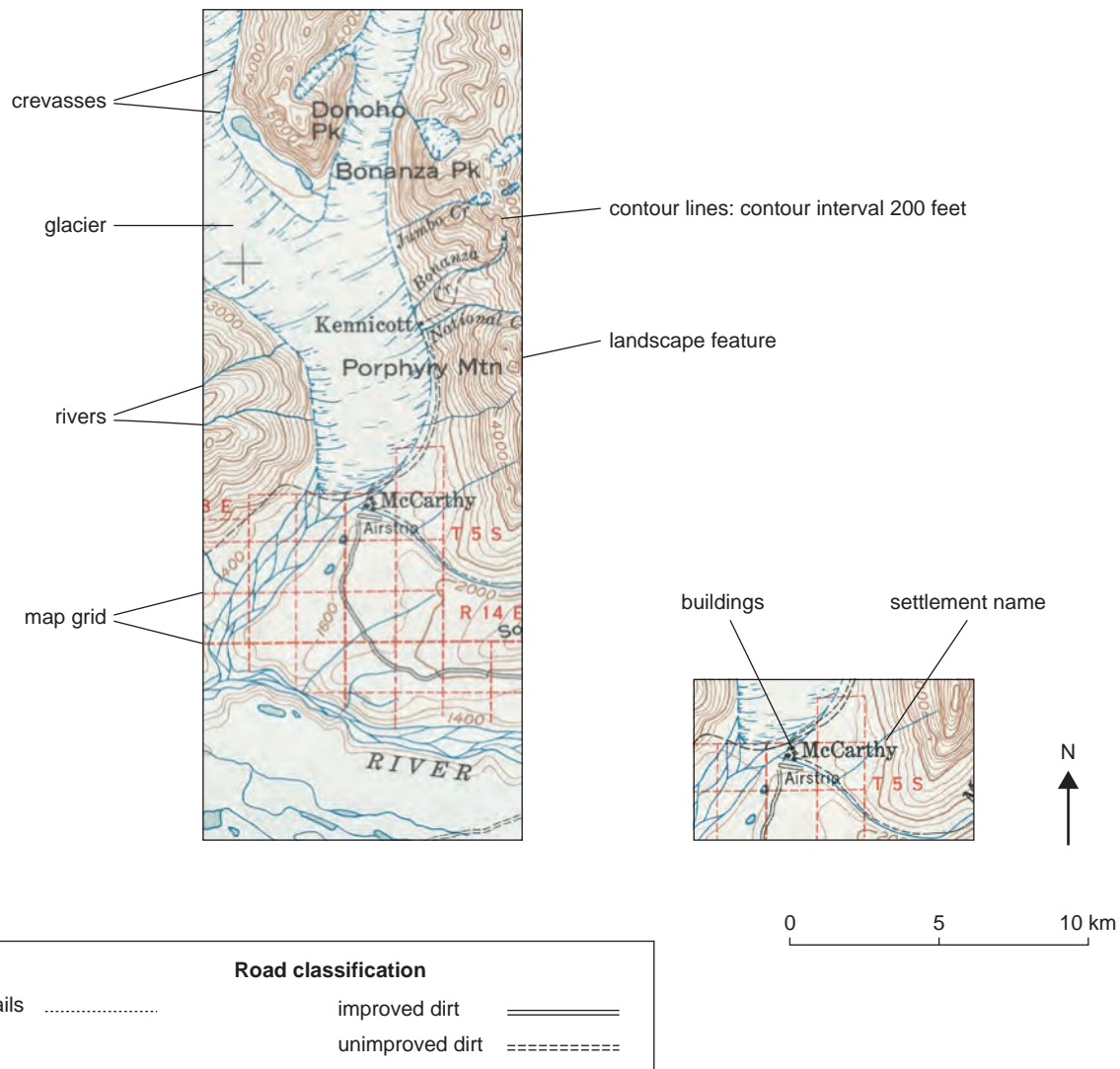
Students are NOT permitted to bring mobile phones and/or any other unauthorised electronic devices into the examination room.

Figure 1 | Land cover change



Figure 1: Topographic map, Kennicott Glacier, Alaska

Legend for Figure 1



Source: adapted from *McCarthy, Alaska*,
The Geographical Survey, 1951

Figure 2 | Land cover change

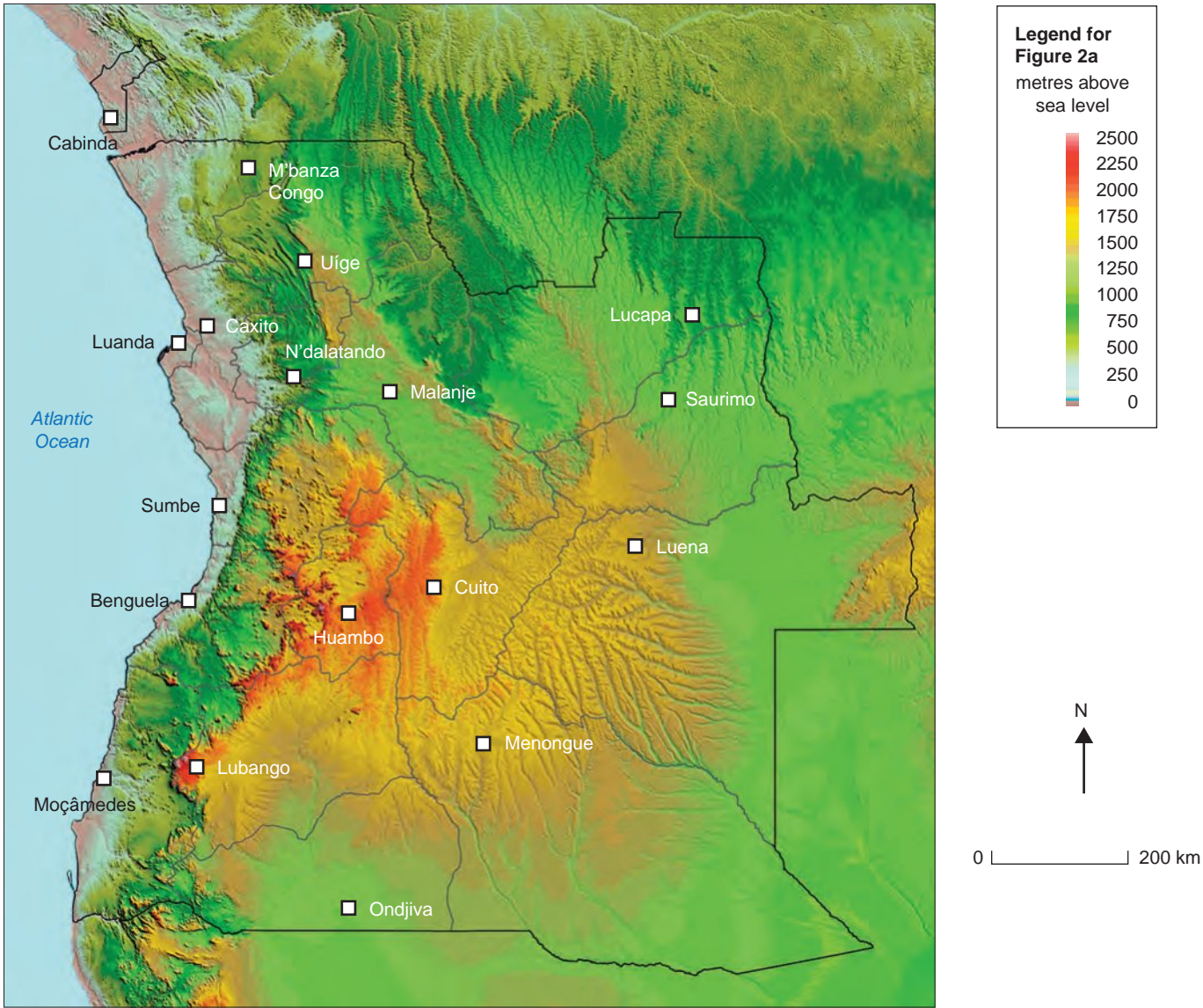


Figure 2a: Angola, geographical features

Source: adapted from Brian J Huntley et al. (eds), *Biodiversity of Angola: Science and Conservation: A Modern Synthesis*, Springer Open, Cham, Switzerland, 2019, p. 17

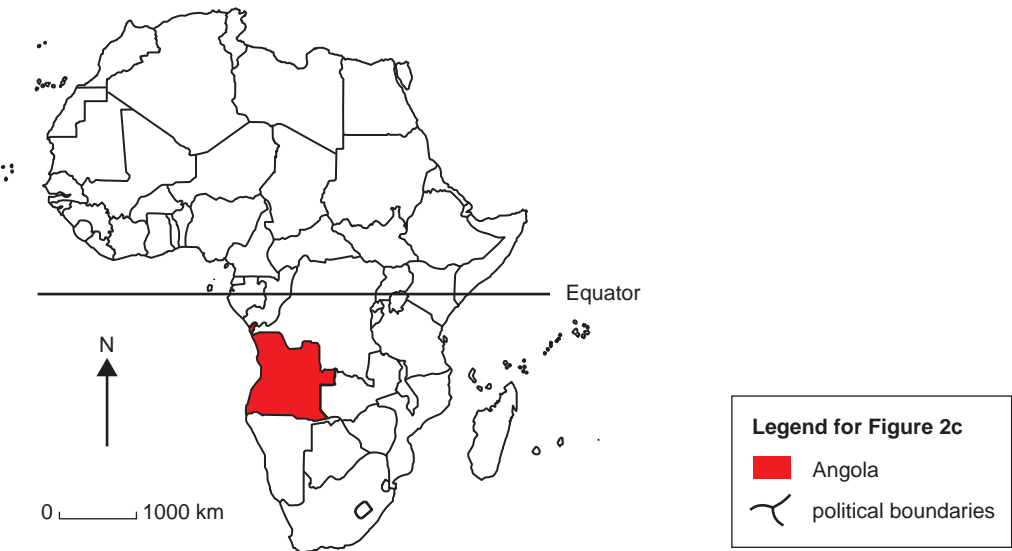


Figure 2c: Location map for Angola, Africa

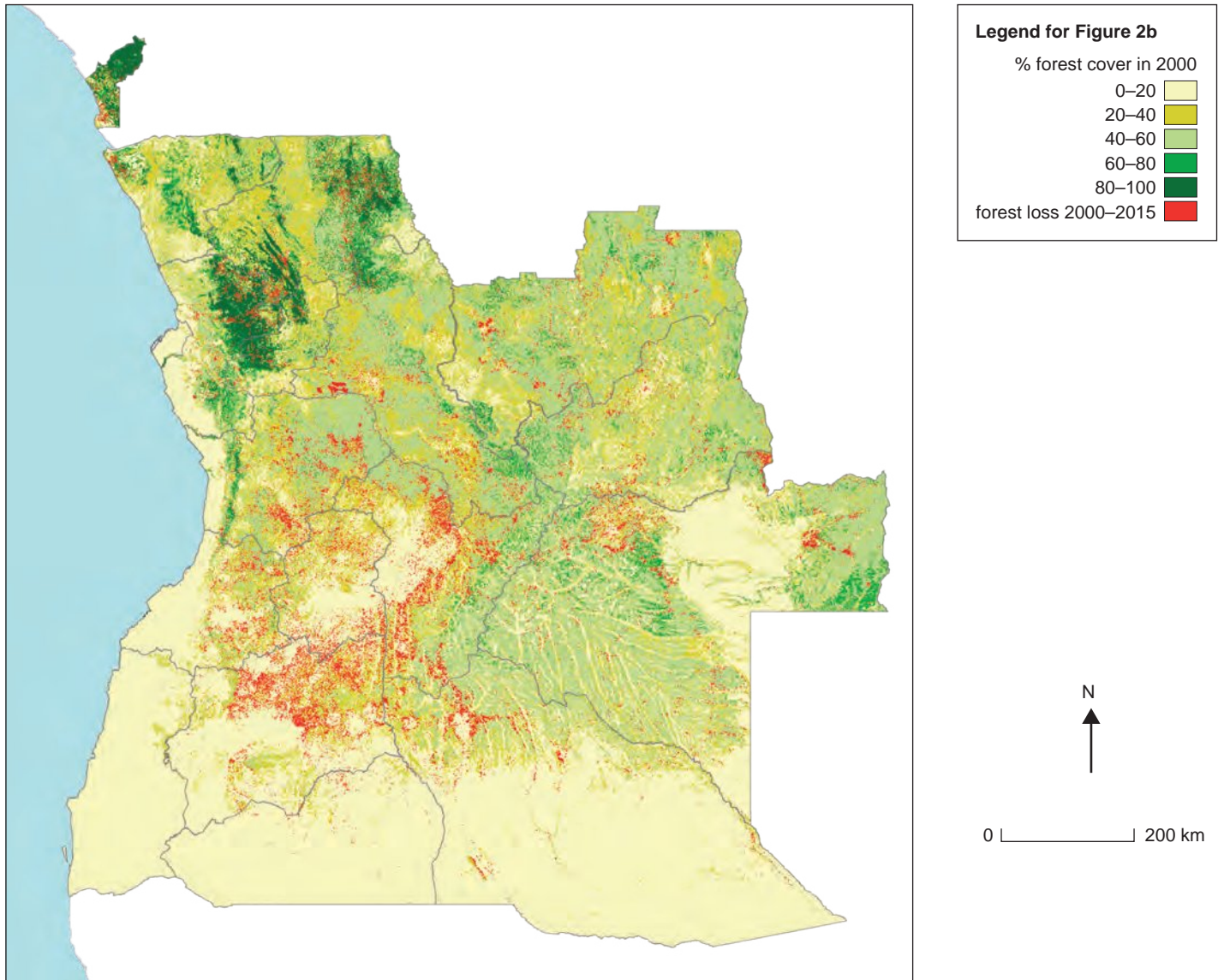
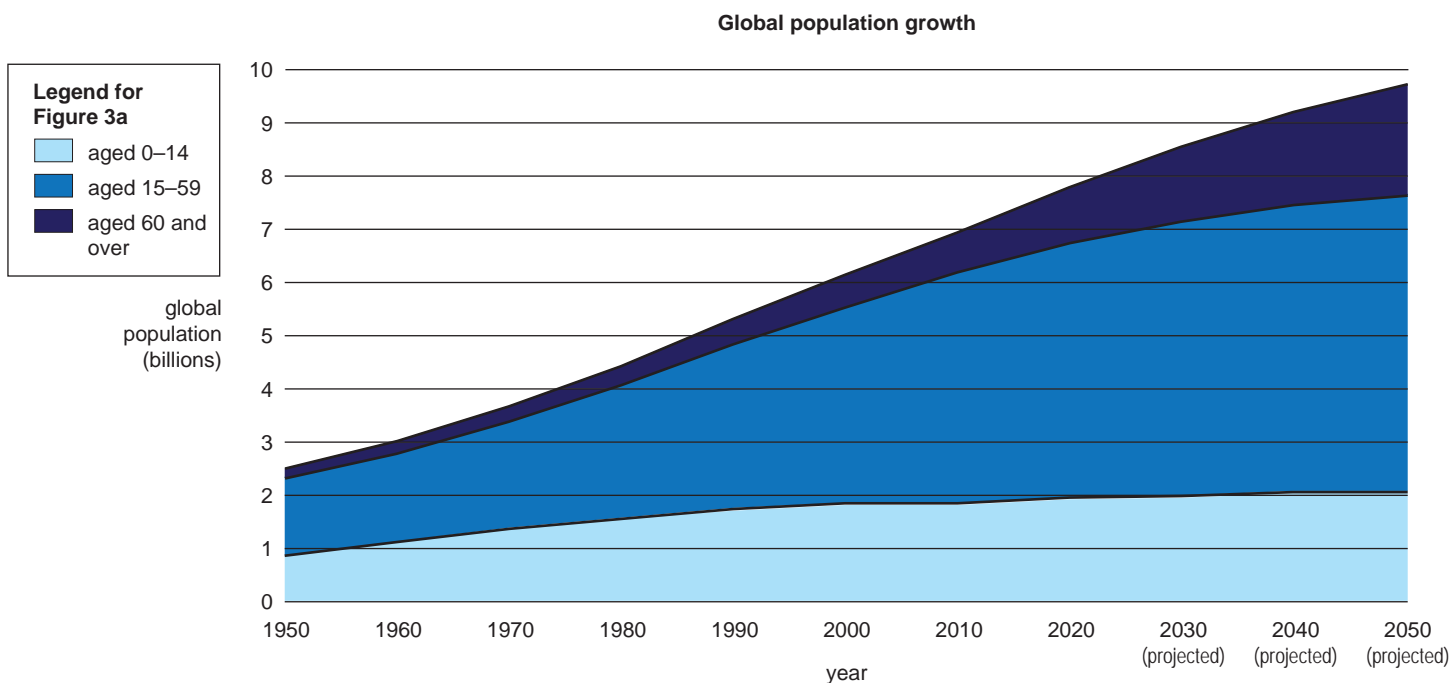


Figure 2b: Angola, forest cover and loss, 2000–2015

Source: adapted from Brian J Huntley et al. (eds),
*Biodiversity of Angola: Science and Conservation:
 A Modern Synthesis*, Springer Open,
 Cham, Switzerland, 2019, p. 125

Figure 3

Human population



Age groups and percentage of total population by year											
	1950	1960	1970	1980	1990	2000	2010	2020	2030 (projected)	2040 (projected)	2050 (projected)
Aged 0–14	34.3	37.2	37.5	35.3	32.8	30.1	27.0	25.4	23.6	22.1	21.1
Aged 15–59	57.7	55.1	54.2	56.1	58.0	59.9	62.0	61.1	59.9	59.0	57.5
Aged 60 and over	8.0	7.8	8.2	8.6	9.2	9.9	11.0	13.5	16.5	18.9	21.4

Data: United Nations, Department of Economic and Social Affairs, Population Division (2019).
World Population Prospects 2019, custom data acquired via website

Figure 3a: Global population growth, 1950–2050

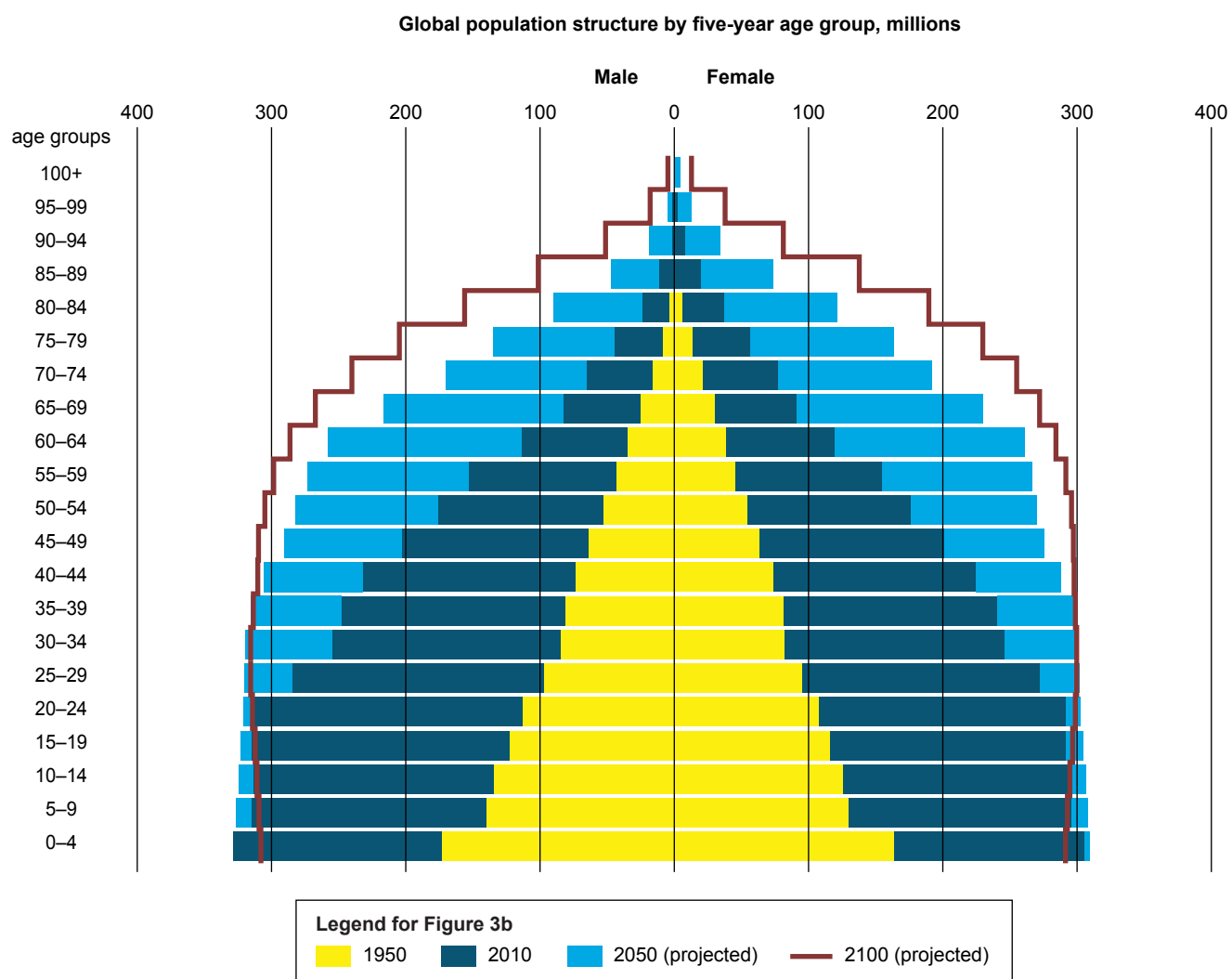


Figure 3b: Global population structure, 1950–2100

Source: adapted from 'The world in 2100' videographic, *The Economist*,
 13 May 2011, <www.economist.com>;
 The Economist Newspaper Ltd, London, 2011