

Please check the examination details below before entering your candidate information

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| Candidate surname    |                      |                      |                      |                      | Other names          |                      |                      |                      |  |
| Centre Number        |                      |                      |                      |                      | Candidate Number     |                      |                      |                      |  |
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**Pearson Edexcel International Advanced Level**

**Time** 1 hour 45 minutes

**Paper reference** **WGE01/01**

**Geography**

**International Advanced Subsidiary**

**PAPER 1: Global Challenges**

**You must have:**  
Resource Booklet (enclosed)

Total Marks

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions in Section A. Answer **either** Question 5 **or** Question 6 in Section B.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*

### Information

- The total mark for this paper is 90.
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*
- Calculators may be used.

### Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

Turn over ►

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## SECTION A

You must use the Resource Booklet

Answer ALL questions. Write your answers in the spaces provided.

Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 Study Figure 1 in the Resource Booklet.

(a) (i) What is the main direction of the tropical cyclone tracks shown over North America?

(1)

☐ **A** From South East to North West

☐ **B** From South West to North East

☐ **C** From North West to North East

☐ **D** From North East to South East

(ii) Describe the distribution of tropical cyclone tracks shown.

(2)

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(iii) Explain **one** reason for the distribution of tropical cyclone tracks shown.

(2)

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(b) Explain how El Niño-Southern Oscillation (ENSO) cycles contribute to drought risk.

(4)

(c) Explain why community preparedness for tectonic hazards is better in some places than others.

(6)

(Total for Question 1 = 15 marks)



2 Study Figure 2 in the Resource Booklet.

(a) (i) Define the term 'greenhouse gas'.

(1)

(ii) Describe the trends in China's methane emissions.

(2)

(iii) Suggest **one** reason why China's carbon dioxide emissions per person increased between 1990 and 2018.

(2)

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- (b) Explain how these **two** physical feedback mechanisms could lead to a climate change tipping point.

(4)

Ice albedo feedback

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Ocean carbon sinks

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(c) Explain why groups and organisations may have different attitudes to the threat of global warming.

(6)

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(Total for Question 2 = 15 marks)



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**3** Study Figure 3 in the Resource Booklet.

- (a) (i) Identify which year the highest number of Chinese provinces opened Free Trade Zones.

(1)

- (ii) Suggest **one** reason for the distribution of Free Trade Zones opened in 2015.

(2)

- (iii) Explain **one** environmental impact, for China, of TNCs outsourcing production to Free Trade Zones.

(3)



P 7 0 6 9 4 A 0 7 2 0

(b) Explain **one** way consumers in the developed world have benefitted from globalisation.

(3)

(c) Explain how the movement of the global economic centre of gravity to Asia has benefitted the people living there.

(6)

(Total for Question 3 = 15 marks)



**4** Study Figure 4 in the Resource Booklet.

- (a) (i) Name the global region projected to experience the largest increase in population by 2100.

(1)

- (ii) Describe the population trend for Asia between 1950 and 2100.

(2)

- (iii) Suggest **one** reason for the population projection by 2100 for:

(4)

Europe

Africa



P 7 0 6 9 4 A 0 9 2 0

(b) Explain **one** way that an ageing population can impact healthcare provision.

(2)

(c) Explain why there is disagreement about the relationship between population and resources.

(6)

(Total for Question 4 = 15 marks)

**TOTAL FOR SECTION A = 60 MARKS**





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(Total for Question 5 = 30 marks)



**Do not answer Question 6 if you have answered Question 5.**

**If you answer Question 6 put a cross in the box ☐.**

**6** Study Figure 6 in the Resource Booklet

(a) Suggest reasons for the pattern of the KOF Globalisation Index scores shown.

(10)

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(b) Assess the extent to which the growth of the internet is the most significant contributor to recent globalisation.

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(Total for Question 6 = 30 marks)

**TOTAL FOR SECTION B = 30 MARKS**

**TOTAL FOR PAPER = 90 MARKS**



# Pearson Edexcel International Advanced Level

**Time** 1 hour 45 minutes

**Paper  
reference**

**WGE01/01**

## Geography

**International Advanced Subsidiary  
PAPER 1: Global Challenges**

### Resource Booklet

**Do not return this Booklet with the question paper.**

*Turn over* ►

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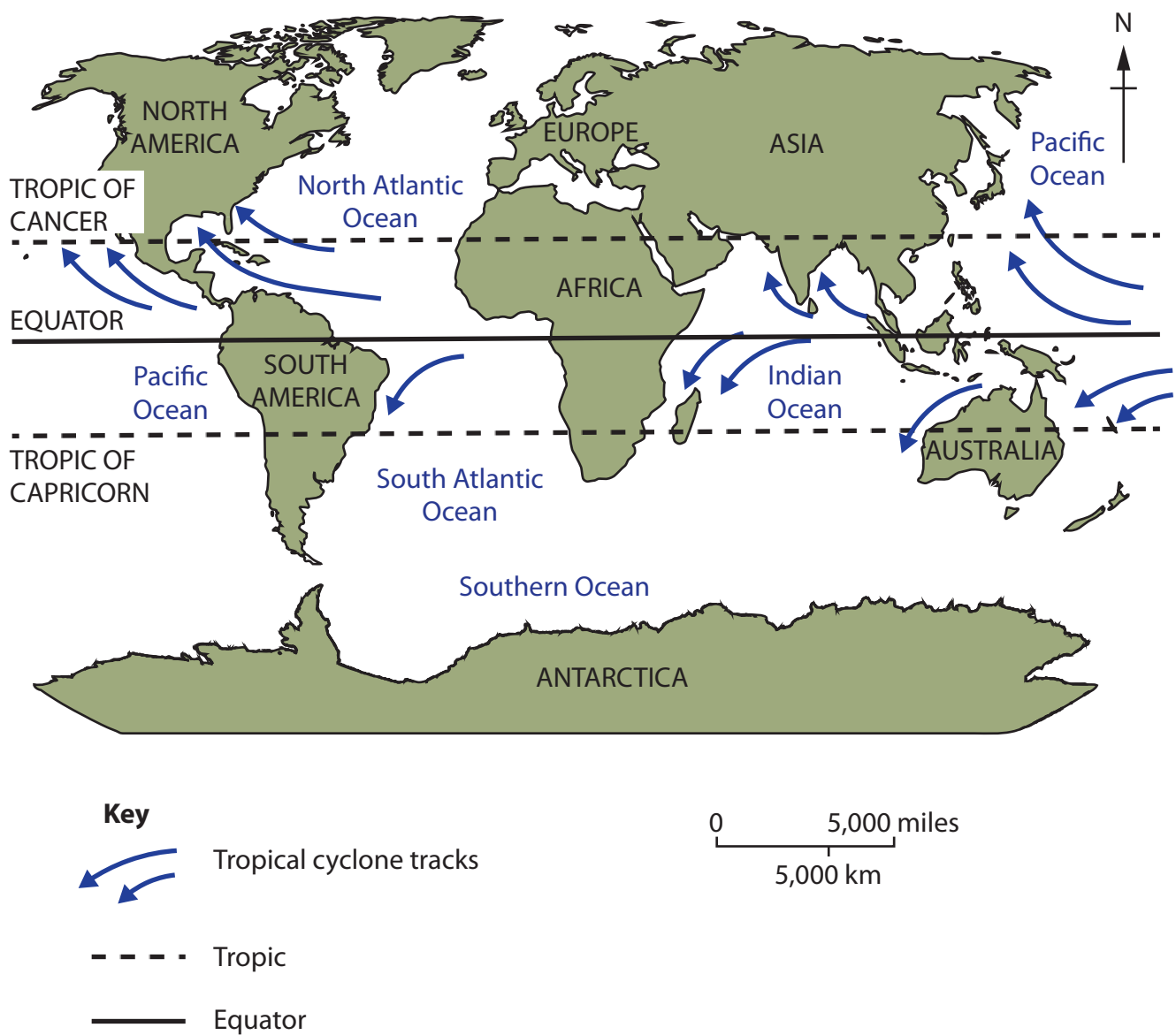
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## SECTION A

The following resource relates to Question 1.



**Figure 1**

**The distribution of tropical cyclone tracks**

The following resource relates to Question 2.

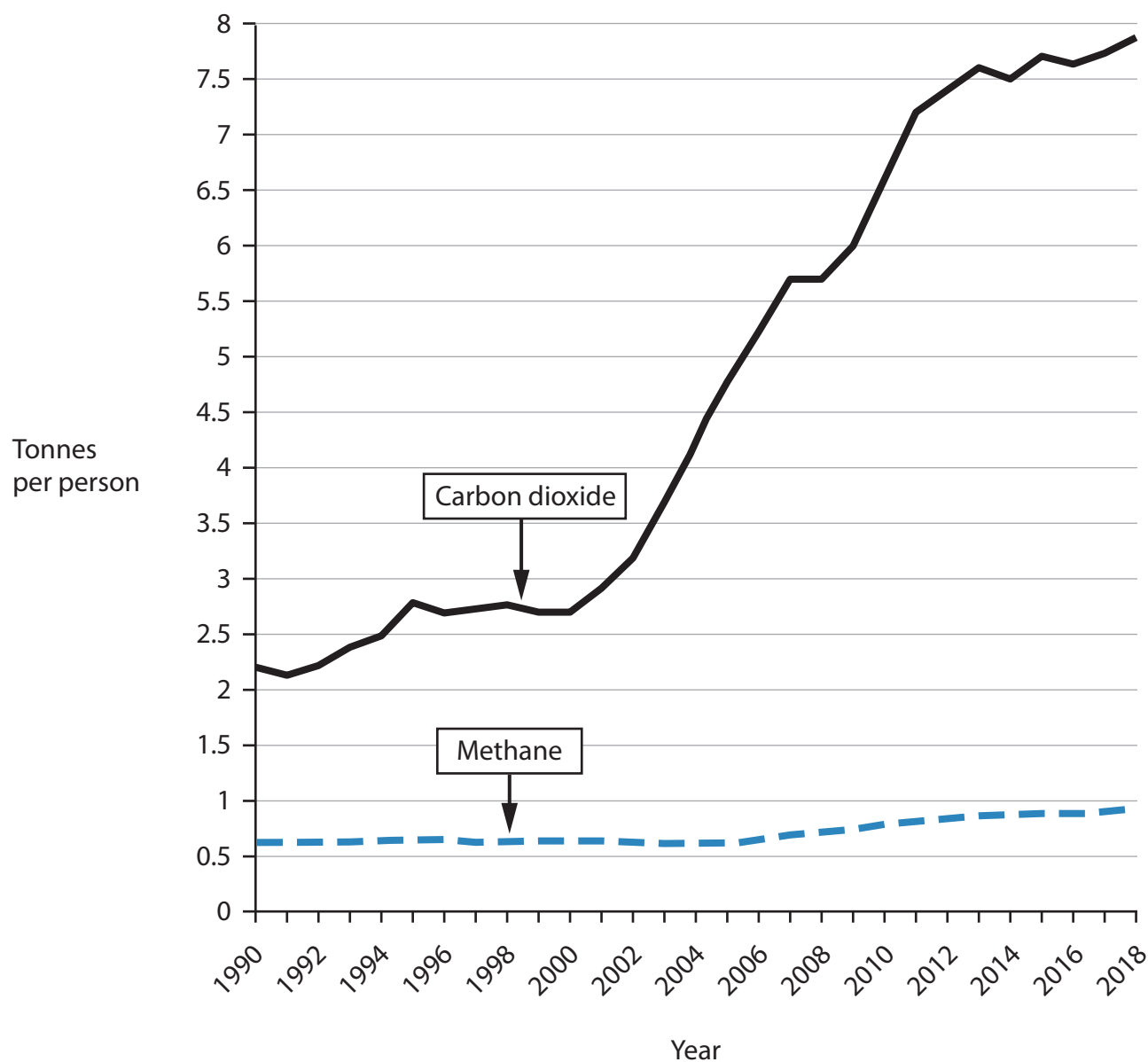
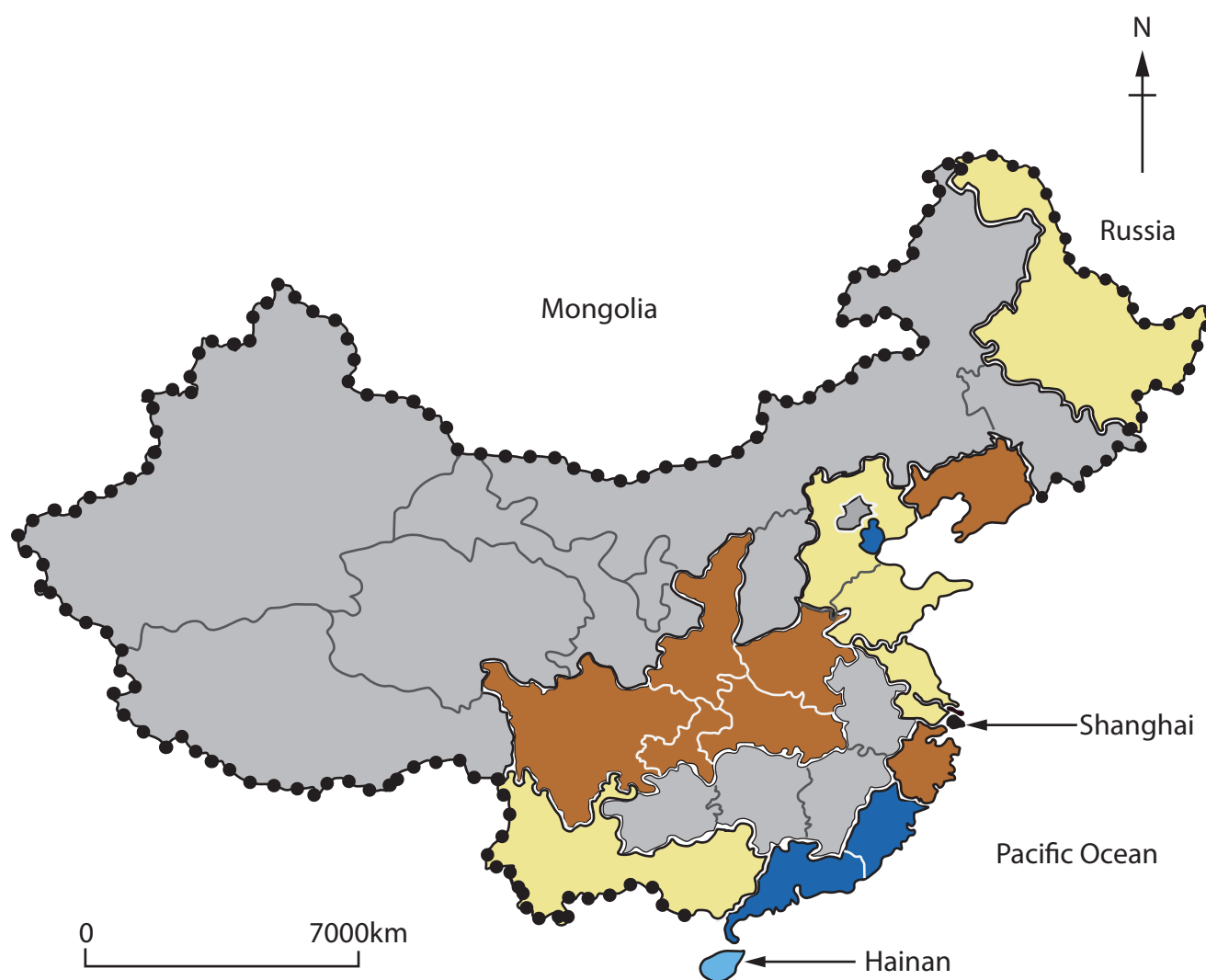


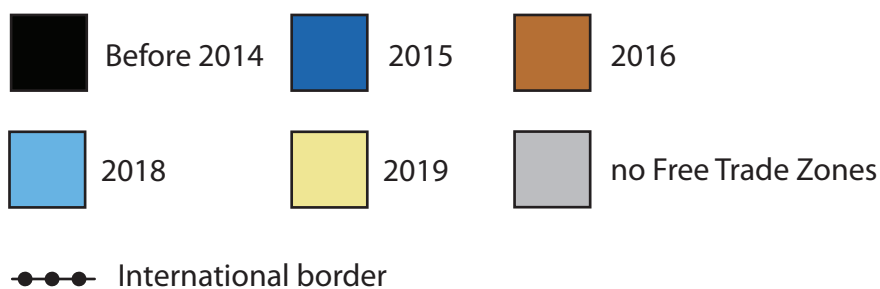
Figure 2

China's carbon dioxide and methane emissions per person, 1990 to 2018

The following resource relates to Question 3.



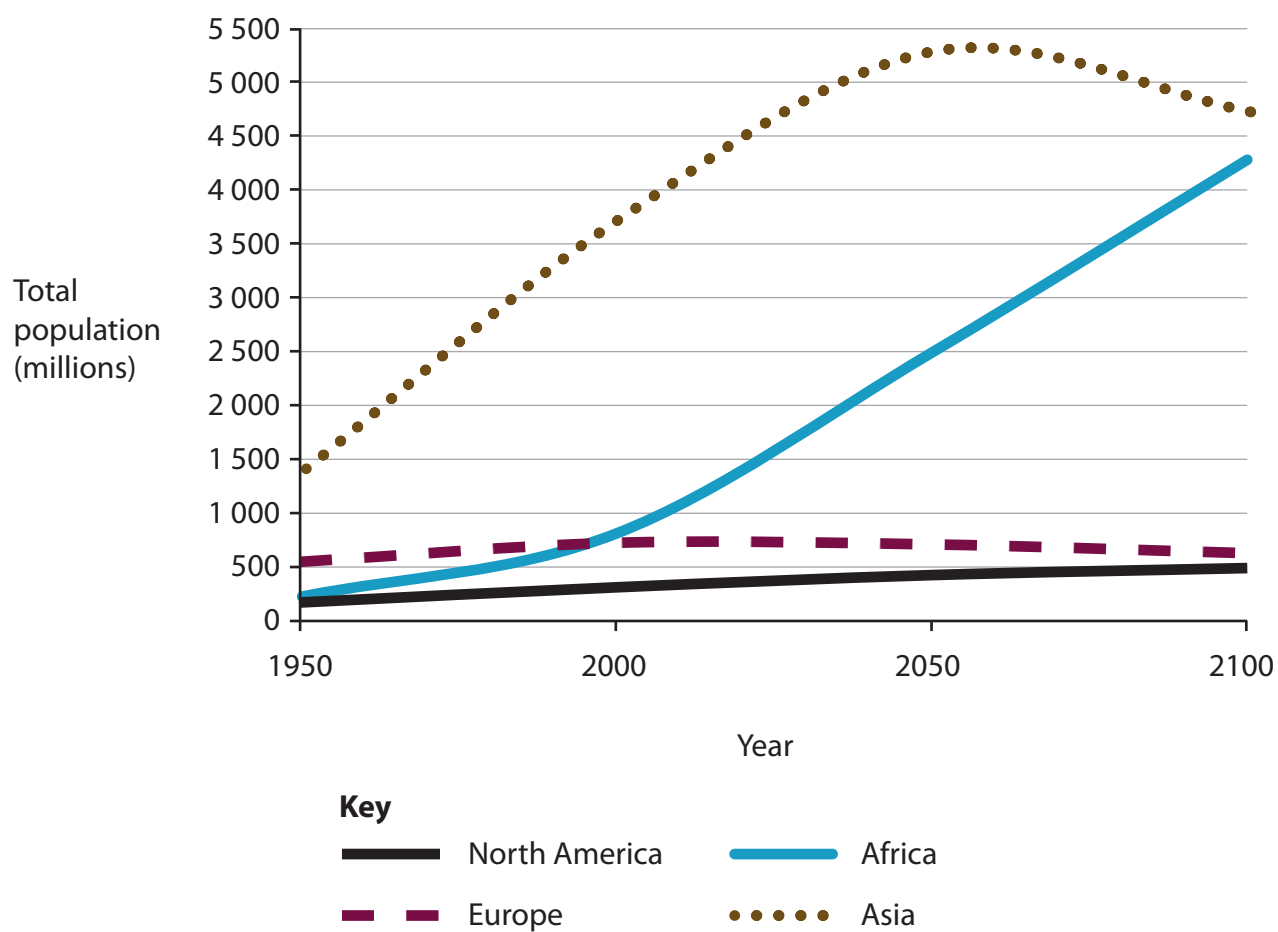
**Key:** The year Free Trade Zones opened in Chinese Provinces



A Free Trade Zone is a type of special economic zone.

**Figure 3**  
**Map showing the expansion of Free Trade Zones in China**

The following resource relates to Question 4.

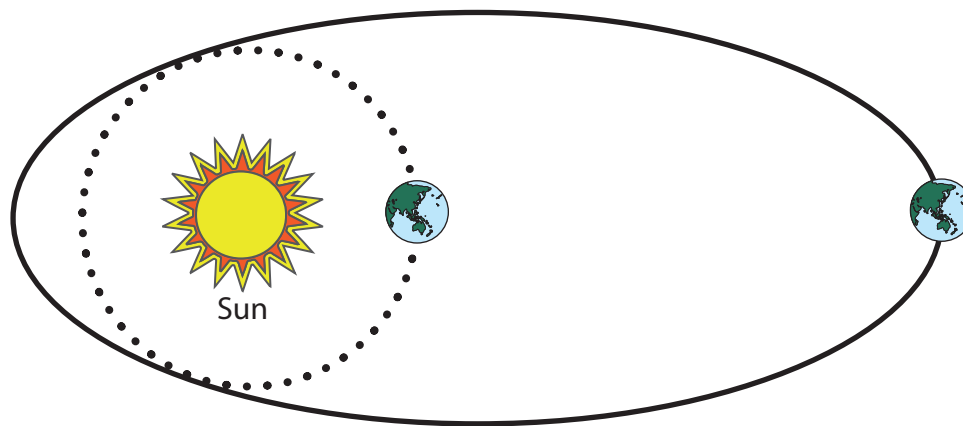


**Figure 4**

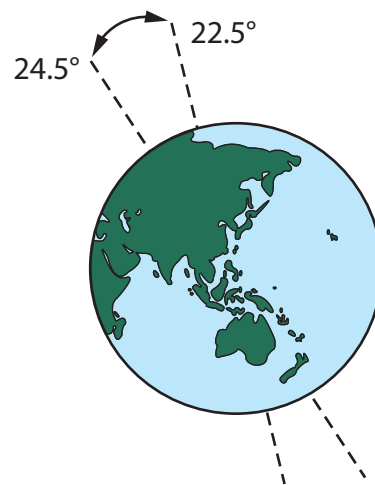
**Actual and projected population for four global regions, 1950 to 2100**

## SECTION B

The following resource relates to Question 5.



Orbital eccentricity – 100,000 years



Axial tilt – 41,000 years

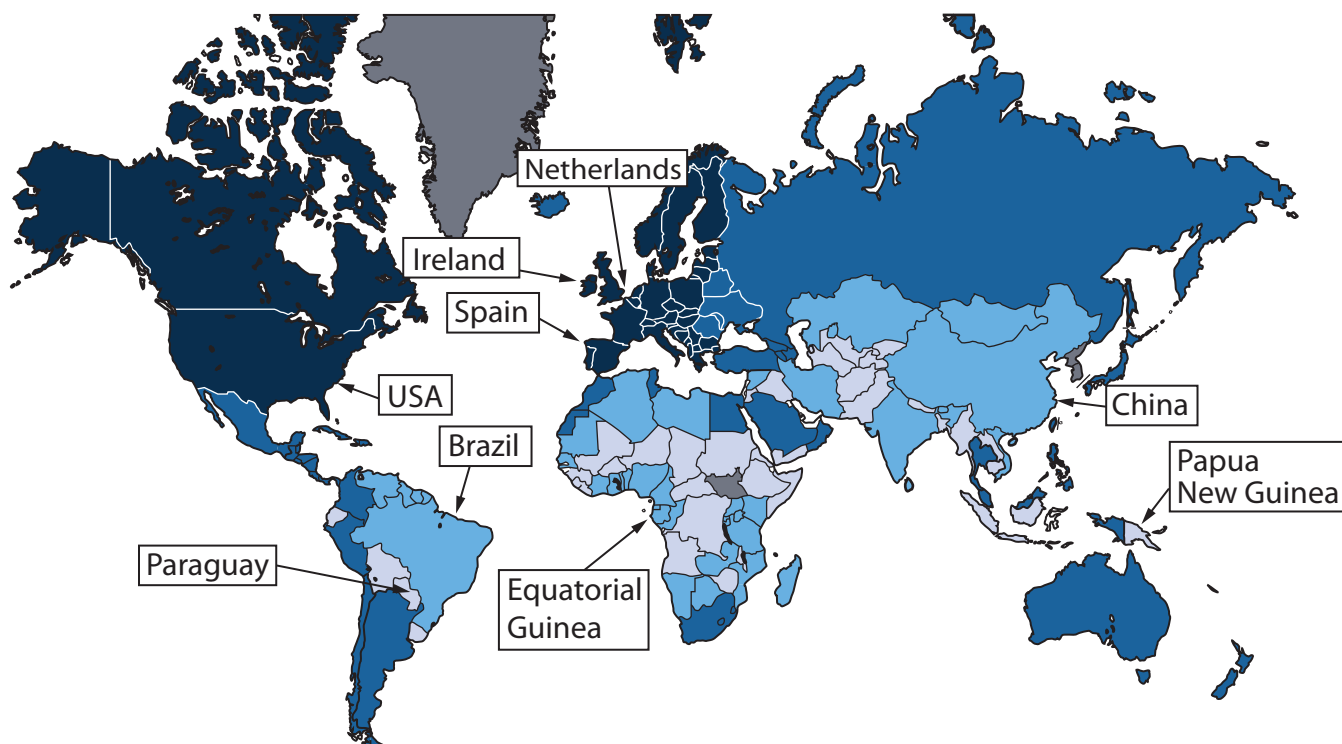


Axial precession – 26,000 years

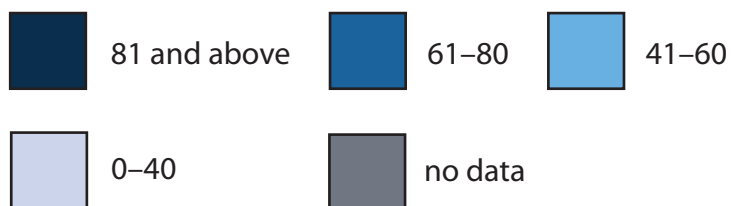
**Figure 5**

**Milankovitch cycles**

The following resource relates to Question 6.



**Key:** KOF Globalisation Index score



**Figure 6**

**KOF Globalisation Index in 2017**

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### Acknowledgements

Pearson Education Ltd. gratefully acknowledges all following sources used in preparation of this paper:

Source 1 adapted from: <https://courses.lumenlearning.com/atd-herkimer-worldgeography/chapter/5-5-tropical-cyclones-hurricanes/>

Source 2 adapted from: <https://climatechange.ita.org/wp-content/uploads/cct/2015/02/EPA-climate-forcing-2014.pdf>

Source 3 adapted from: <https://www.china-briefing.com/news/china-free-trade-zones-six-provinces/>

Source 4 adapted from: <https://ourworldindata.org/future-population-growth#all-charts-preview>

Source 5 adapted from: Why Milankovitch (Orbital) Cycles Can't Explain Earth's Current Warming – Climate Change: Vital Signs of the Planet (nasa.gov)

Source 6 adapted from: Dreher, Axel & Gaston, Noel & Martens, Pim & Boxem, Lotte. (2009). Measuring globalization - opening the black box. A critical analysis of globalization indices. Noel Gaston. 1.