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Candidate number

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Forename(s)

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Candidate signature

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I declare this is my own work.

# GCSE GEOGRAPHY

## Paper 1 Living with the Physical Environment

Monday 18 May 2020

Morning

Time allowed: 1 hour 30 minutes

### Materials

For this paper you must have:

- a pencil
- a rubber
- a ruler.

You may use a calculator.

### Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.

Answer **all** questions in Section A and Section B.

Answer **two** questions in Section C.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
<b>TOTAL</b>	

- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

### Information

- The marks for questions are shown in brackets.
- The total number of marks available for this paper is 88.
- HIC is a higher income country.
- LIC is a lower income country.
- NEE is a newly emerging economy.
- Spelling, punctuation, grammar and specialist terminology will be assessed in Question **01.12**.



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ANSWER IN THE SPACES PROVIDED**




For the multiple-choice questions, shade the circle next to the correct answer.

CORRECT METHOD

WRONG METHODS

If you want to change your answer you must cross out your original answer as shown. 

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown. 

### Section A The challenge of natural hazards

Answer **all** questions in this section.

#### Question 1 The challenge of natural hazards

**0 1 . 1** Which **one** of the following statements about tropical storms is true?

Shade **one** circle only.

**[1 mark]**

- A** Tropical storms gain energy as they reach land.
- B** Tropical storms develop along the Equator.
- C** Tropical storms occur in areas of high pressure.
- D** Tropical storms form above oceans where temperatures are over 27 °C.

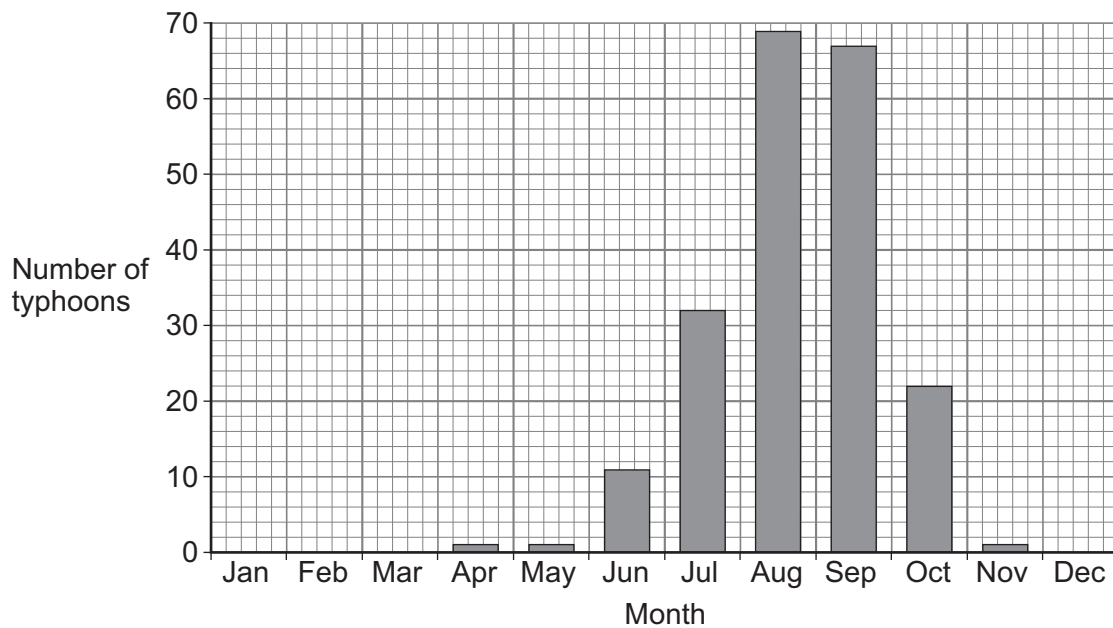
**Question 1 continues on the next page**

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Study **Figure 1**, a graph showing the number of tropical storms (typhoons) that reached Japan in each month from 1851 to 2018.

**Figure 1**



**0 1 . 2** The total number of typhoons reaching Japan was 204.

What percentage of the total number of typhoons occurred in August?

Give your answer to the nearest **whole** percentage.

**[2 marks]**

Show your working

\_\_\_\_\_ %

**0 1 . 3** Give **one** reason why tropical storms have a seasonal pattern.

**[1 mark]**

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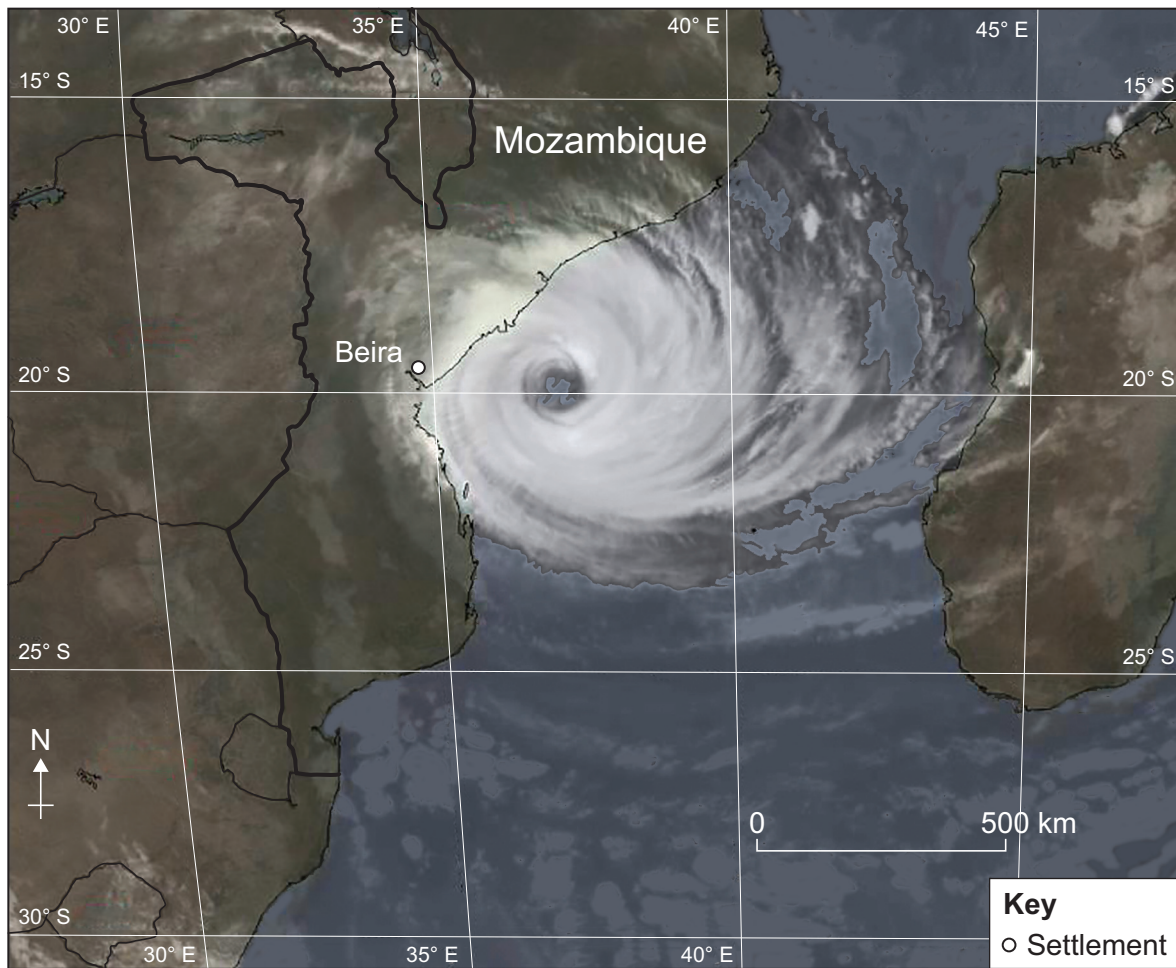
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Study **Figure 2**, a satellite image showing Cyclone Idai approaching Mozambique, Africa in March 2019.

**Figure 2**



**0 1 . 4** Describe the structure of Cyclone Idai shown in **Figure 2**.

**[2 marks]**

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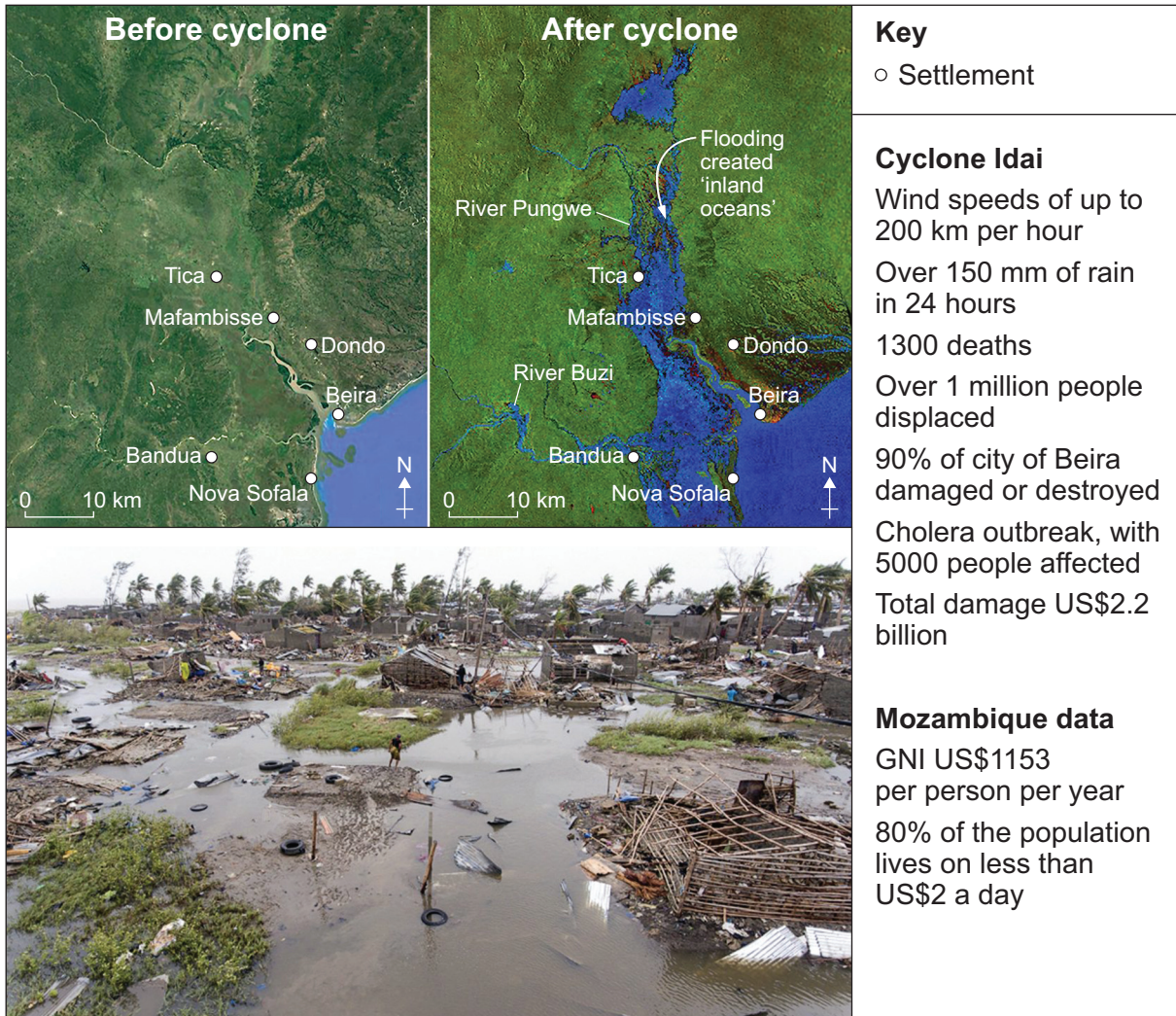
**Question 1 continues on the next page**

**Turn over ►**



Study **Figure 3**, information about Cyclone Idai and its impacts on Mozambique.

**Figure 3**



**0 1 . 5** Suggest why some tropical storms have severe primary **and** secondary effects.

Use **Figure 3** and your own understanding.

**[6 marks]**

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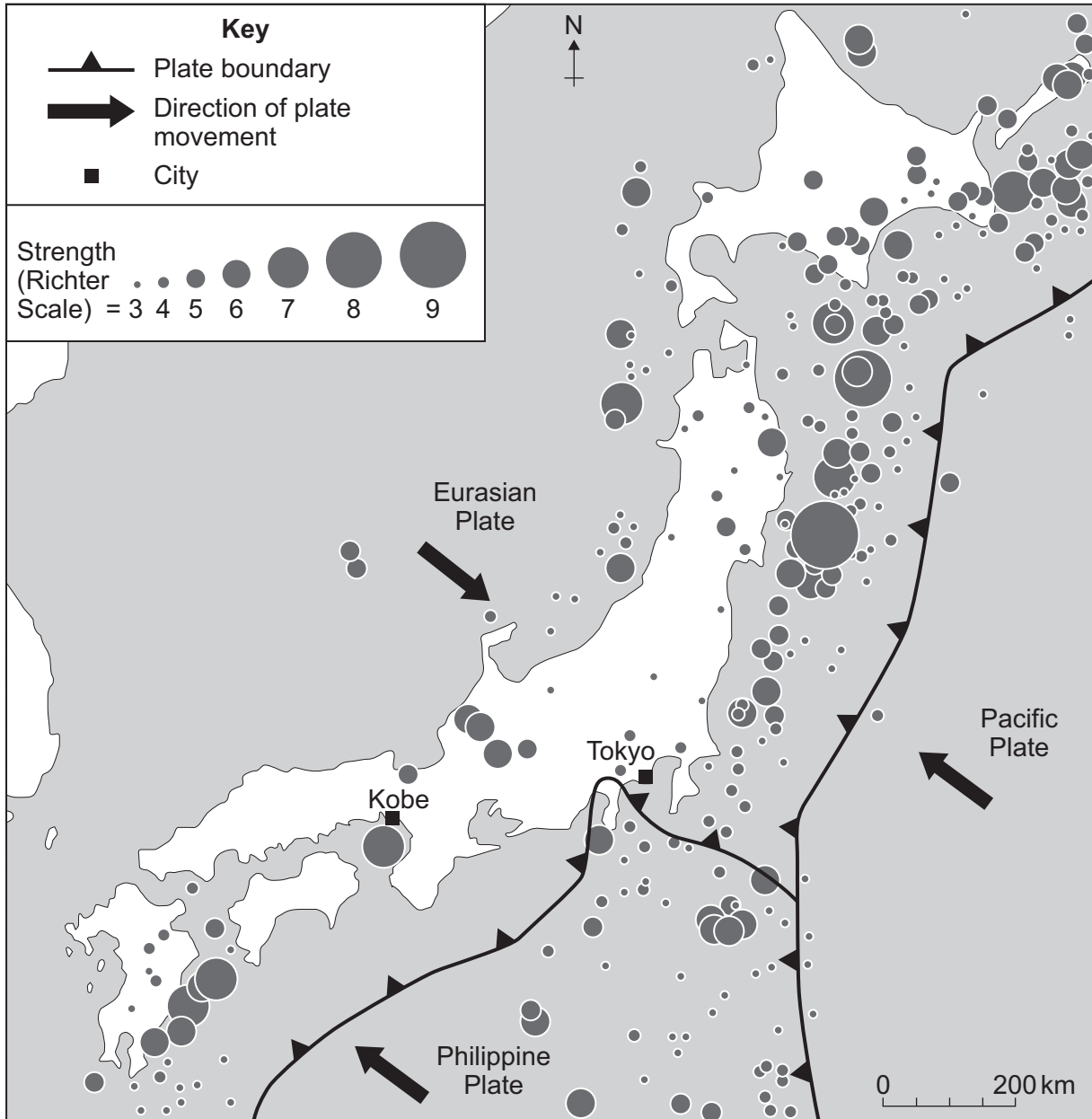
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Study **Figure 4**, a map showing the distribution of earthquakes in and around Japan.

**Figure 4**



**0 1 . 6** Using **Figure 4**, which **one** of the following statements is true?

Shade **one** circle only.

**[1 mark]**

- A** Most of the stronger earthquakes happened on land.
- B** Most earthquakes happened to the east and south east of Japan.
- C** Most earthquakes around Japan were over 7 on the Richter Scale.
- D** No earthquakes greater than 5 on the Richter Scale happened to the west of Japan.

**0 1 . 7** Using **Figure 4**, name the type of plate margin between the Pacific and Eurasian plates.

**[1 mark]**

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**0 1 . 8** Suggest **one other** tectonic hazard likely to occur near to the plate margins shown in **Figure 4**.

**[1 mark]**

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**Question 1 continues on the next page**

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0 1 . 9

Explain how the risks of a tectonic hazard can be reduced.

[4 marks]

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0 1 . 1 0

State **one** source of evidence for long-term climate change during the Quaternary period.

[1 mark]

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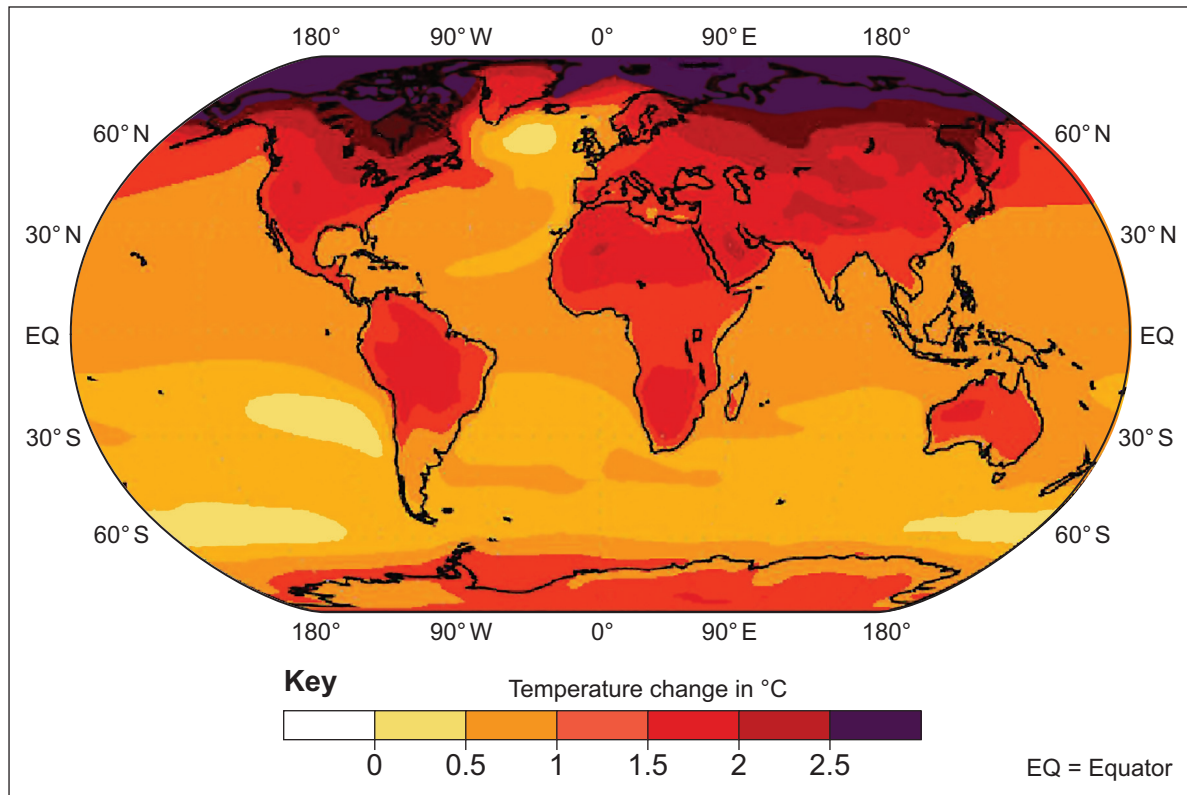
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Study **Figure 5**, a world map showing projected global temperature change between 2000 and 2100.

**Figure 5**



**0 1 . 1 1** Using **Figure 5**, which **one** of the following statements is true?

Shade **one** circle only.

**[1 mark]**

- A** The greatest increase in temperature will be along the Equator.
- B** Most of Africa will have a rise in temperature of between 0 °C and 0.5 °C.
- C** The oceans will show a greater increase in temperature than land areas.
- D** Areas north of 60 °N will have the greatest increase in temperature.

**Question 1 continues on the next page**

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Study **Figure 6**, photographs showing strategies used to manage climate change.

**Figure 6**

Carbon Capture image  
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**33**

**End of Section A**



**Section B The living world**Answer **all** questions in this section.**Question 2 The living world**

**0 2 . 1** For a small scale ecosystem you have studied, name **one** producer and **one** consumer.

**[2 marks]**

Producer \_\_\_\_\_

Consumer \_\_\_\_\_

**0 2 . 2** What is the role of producers in an ecosystem?

**[1 mark]**

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**Question 2 continues on the next page****Turn over ►**

Study **Figure 7**, which shows annual climate data for two different environments.

**Figure 7**

**Place A**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Rainfall (mm)</b>	3	2	1	1	0	1	0	0	0	4	7	8
<b>Average temperature (°C)</b>	16.0	16.7	17.9	18.6	20.3	21.4	23.3	23.9	23.3	22.3	20.1	15.4

**Place B**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Rainfall (mm)</b>	16	20	21	12	9	11	16	28	26	17	19	18
<b>Average temperature (°C)</b>	-14.0	-14.5	-13.3	-10.6	-3.5	2.6	6.2	5.1	1.0	-4.9	-8.7	-12.2

**0 2 . 3** Using **Figure 7**, calculate the temperature range in Place **A**.

**[1 mark]**

\_\_\_\_\_ °C

**0 2 . 4** Using **Figure 7**, state **two** differences between the climate in Place **A** and Place **B**.

**[2 marks]**

1 \_\_\_\_\_

\_\_\_\_\_

2 \_\_\_\_\_

\_\_\_\_\_



**0 2 . 5** Which global ecosystem matches the following description?

An area with trees which drop their leaves in winter.

Shade **one** circle only.

**[1 mark]**

**A** Tundra.

**B** Tropical grassland.

**C** Deciduous forest.

**D** Tropical rainforest.

**Question 2 continues on the next page**

**Turn over ►**



**Figure 8** shows strategies to reduce the risk of desertification in the Sahel, Africa.

**Figure 8**

Map showing The Great Green Wall tree-planting scheme and  
Image showing person building rock walls (Bunds)  
cannot be reproduced here due to third-party copyright restrictions.

**Figure 9** shows strategies used to balance the needs of economic development and conservation in cold environments.

**Figure 9**

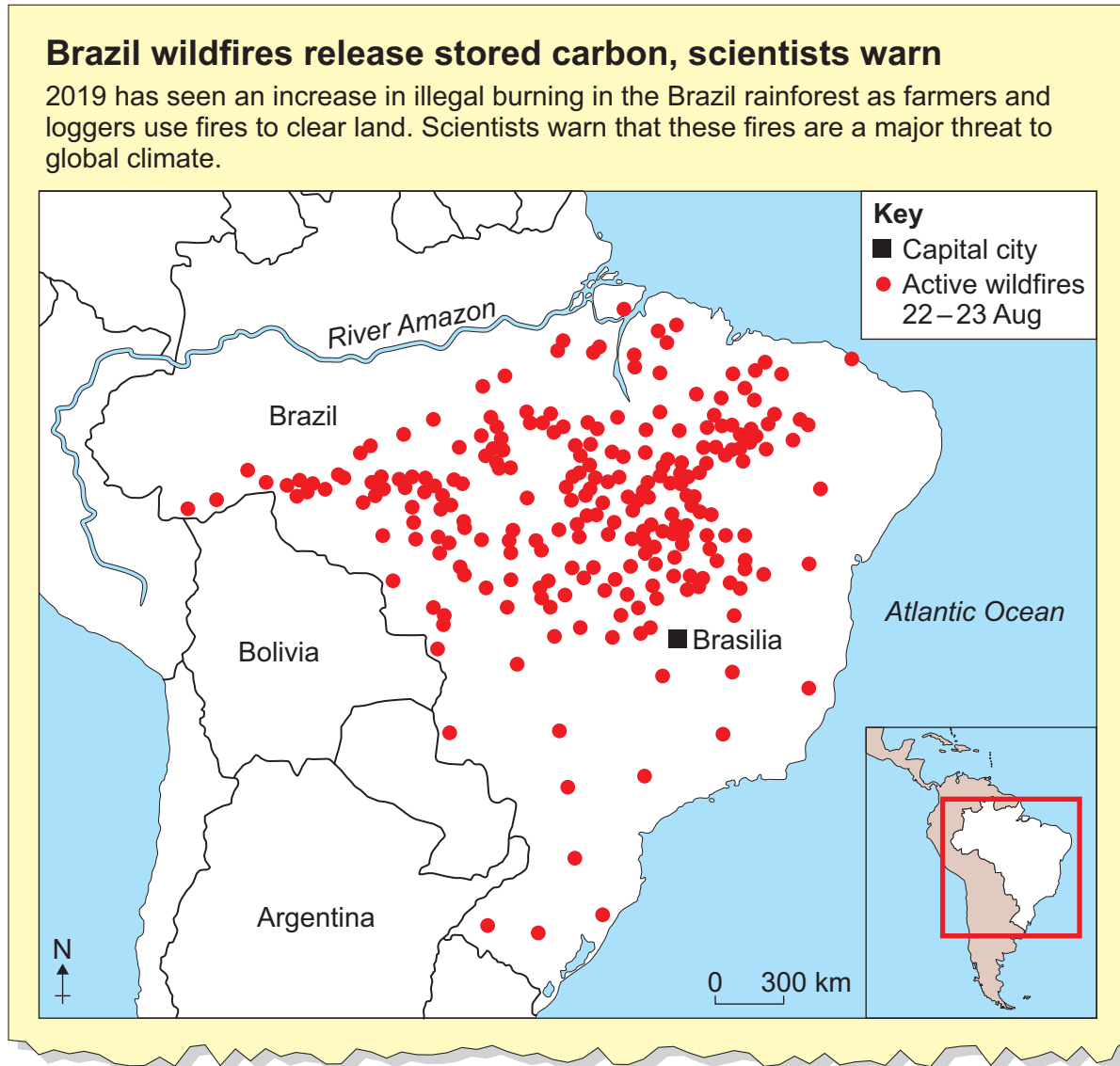
Image of Brown Bear  
cannot be reproduced here due to third-party copyright restrictions.





Study **Figure 10**, a newspaper article about wildfires in Brazil in August 2019.

**Figure 10**



**0 2 . 7** Using **Figure 10**, give **one** feature of the pattern of wildfires in Brazil.

**[1 mark]**

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**0 2 . 8** Outline **one** reason why wildfires are a threat to global climate.

**[2 marks]**

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Study **Figure 11**, which shows some causes of deforestation in tropical rainforests.

**Figure 11**

Shifting cultivation



Palm oil plantation in Indonesia



Ecotourism resort in the Amazon



Hydro-electric dam in Brazil



**0 2 . 9** 'Some economic activities in tropical rainforests have major environmental impacts.'

Do you agree?

Use **Figure 11** and a case study to explain your answer.

**[9 marks]**

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### Section C Physical landscapes in the UK

Answer **two** questions from the following:

Question 3 (Coasts), Question 4 (Rivers), Question 5 (Glacial).

#### Question 3 Coastal landscapes in the UK

Study **Figure 12**, opposite, a physical map of the British Isles.

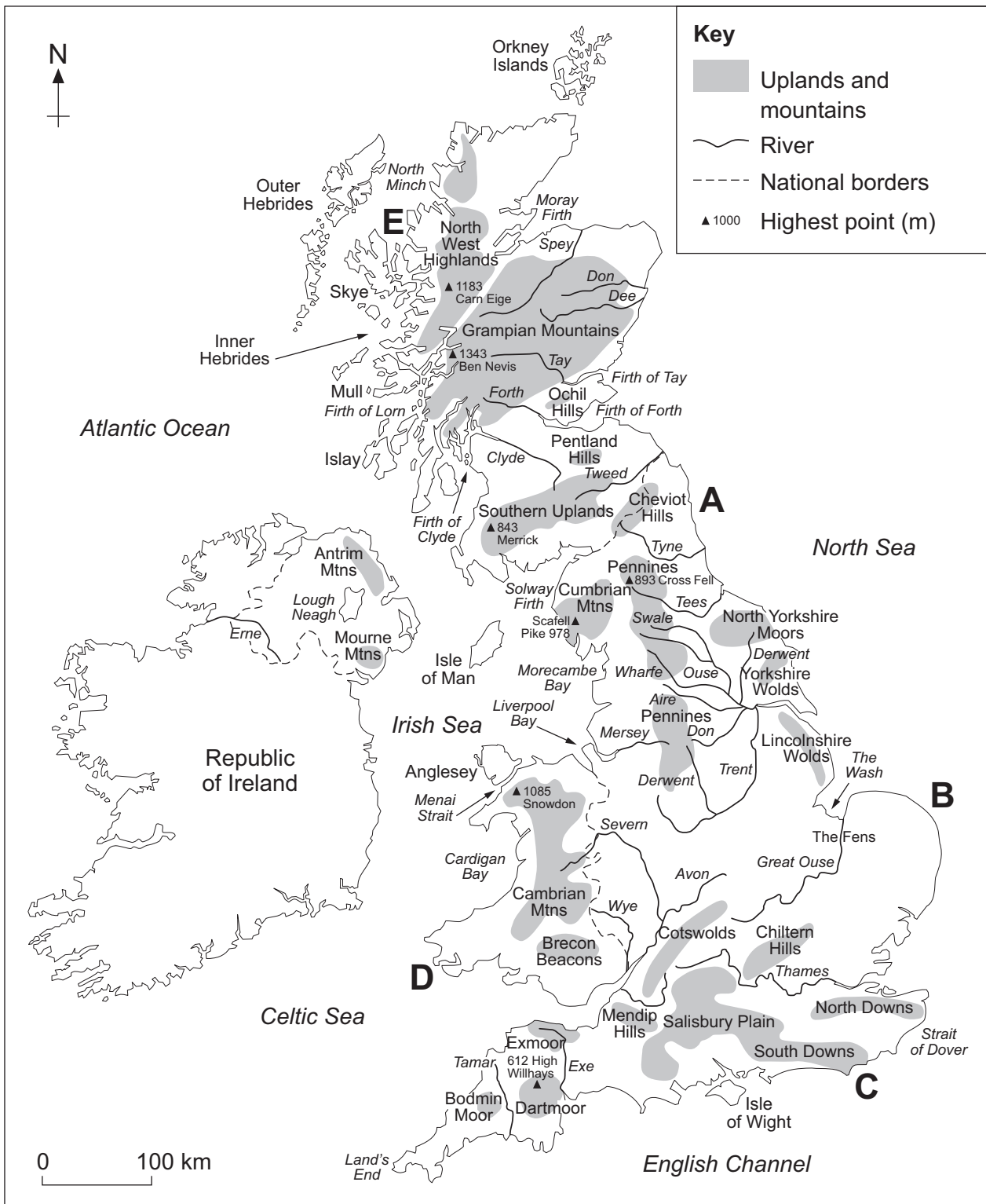
**0 3 . 1** Match the following descriptions of coastal landscapes in the UK with the correct letter shown on **Figure 12**.

**[2 marks]**

Description of coastal landscape	Letter
An uneven coastline with several large islands offshore	
A headland which marks the coastal limit of the South Downs	



Figure 12



Question 3 continues on the next page

Turn over ►



Study **Figure 13**, an image showing a coastal realignment scheme at Medmerry, West Sussex.

**Figure 13**



**0 3 . 2** Using **Figure 13**, state what has happened to the area behind the shingle beach at high tide.

[1 mark]

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**0 3 . 3** Suggest **one** advantage of the coastal management strategy shown in **Figure 13**.

[1 mark]

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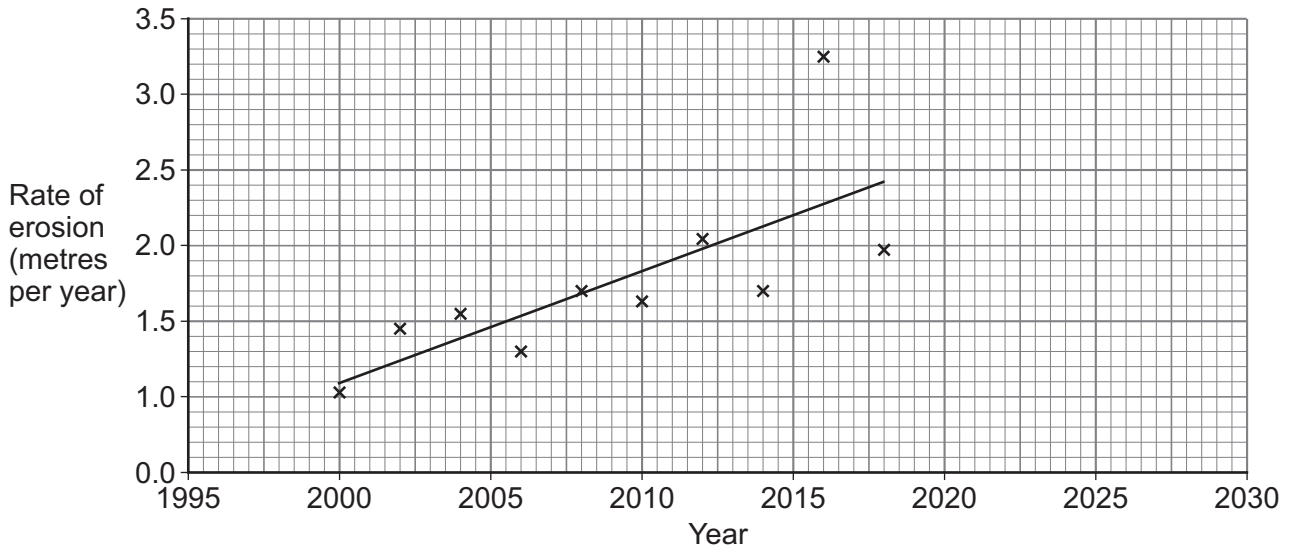
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Study **Figure 14**, a graph showing rates of erosion at a coastal site between 2000 and 2018.

**Figure 14**



**0 3 . 4** Using **Figure 14**, what is the projected rate of erosion for 2030?

**[1 mark]**

\_\_\_\_\_ metres per year

**0 3 . 5** Explain the benefits of using hard engineering strategies to protect the coastline.

**[4 marks]**

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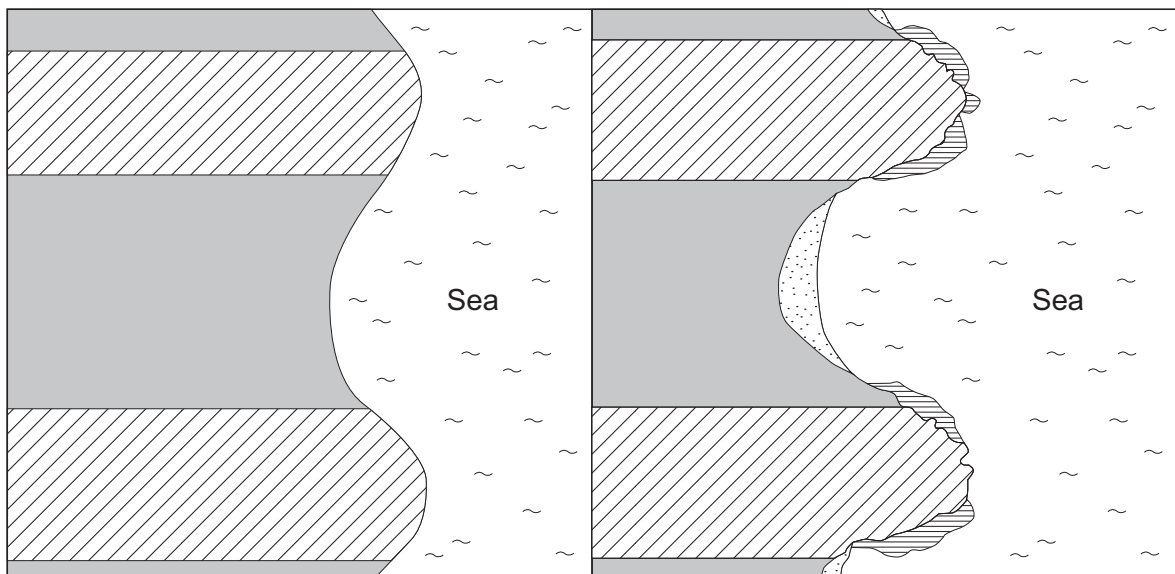
Study **Figure 15**, a photograph of part of Dorset, and sketch maps showing changes in the shape of a coastline over time.

**Figure 15**







**Before**

**After**



**Key**

- |                                                                                                 |                                                                                                       |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|  Harder rock |  Beach             |
|  Softer rock |  Wave-cut platform |







**Question 4 River landscapes in the UK**

Study **Figure 16**, opposite, a physical map of the British Isles.

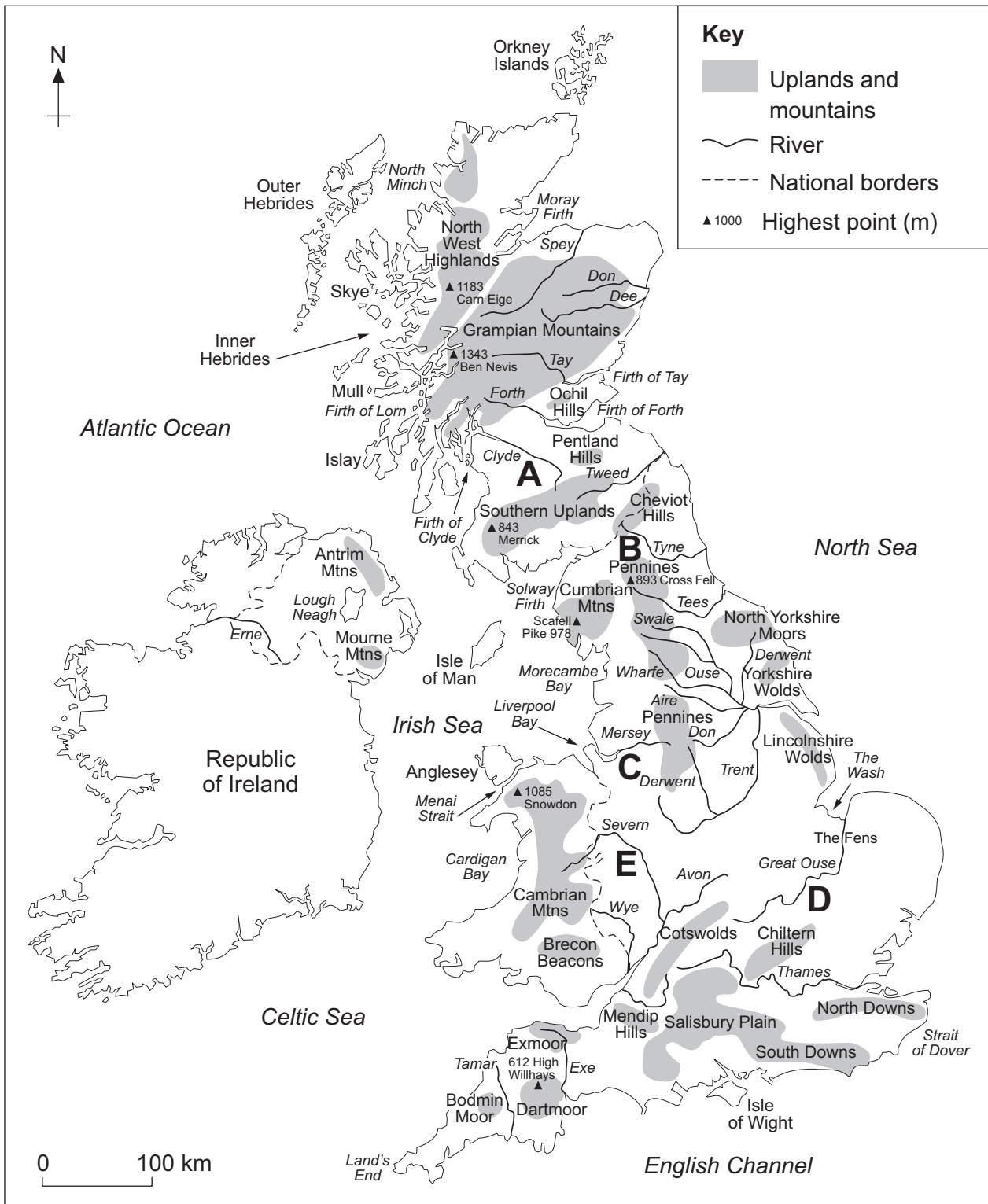
**0 4 . 1** Match the following descriptions of rivers in the UK with the correct letter shown on **Figure 16**.

**[2 marks]**

Description of river	Letter
A river which flows west from the Pennines into Liverpool Bay	
A river which flows north east through the Fens and into the Wash	



Figure 16



Question 4 continues on the next page

Turn over ►



Study **Figure 17**, a photograph showing river straightening along the River Cuckmere in East Sussex.

**Figure 17**



0 4 . 2

Using **Figure 17**, describe the relief (height and shape of the land) on either side of the straightened river.

[1 mark]

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0 4 . 3

Suggest how the strategy shown in **Figure 17** helps to manage the river.

[1 mark]

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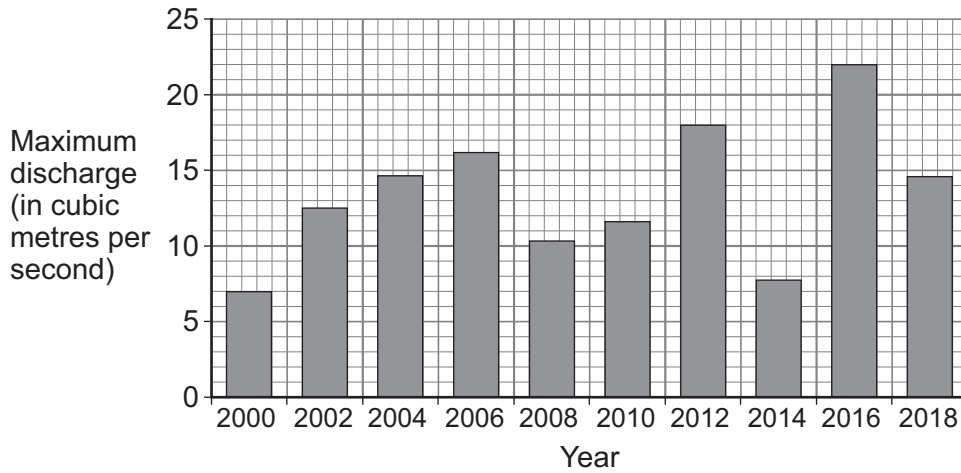


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Study **Figure 18**, a graph showing maximum discharge for a river between 2000 and 2018.

**Figure 18**



**0 4 . 4** Using **Figure 18**, calculate the range of maximum discharge.

**[1 mark]**

\_\_\_\_\_ cubic metres per second

**0 4 . 5** Explain how river levées are formed.

**[4 marks]**

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**End of Question 4**

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**Question 5 Glacial landscapes in the UK**

Study **Figure 20**, opposite, a physical map of the British Isles.

**0 5 . 1** Match the following descriptions of glaciated uplands in the UK with the correct letter shown on **Figure 20**.

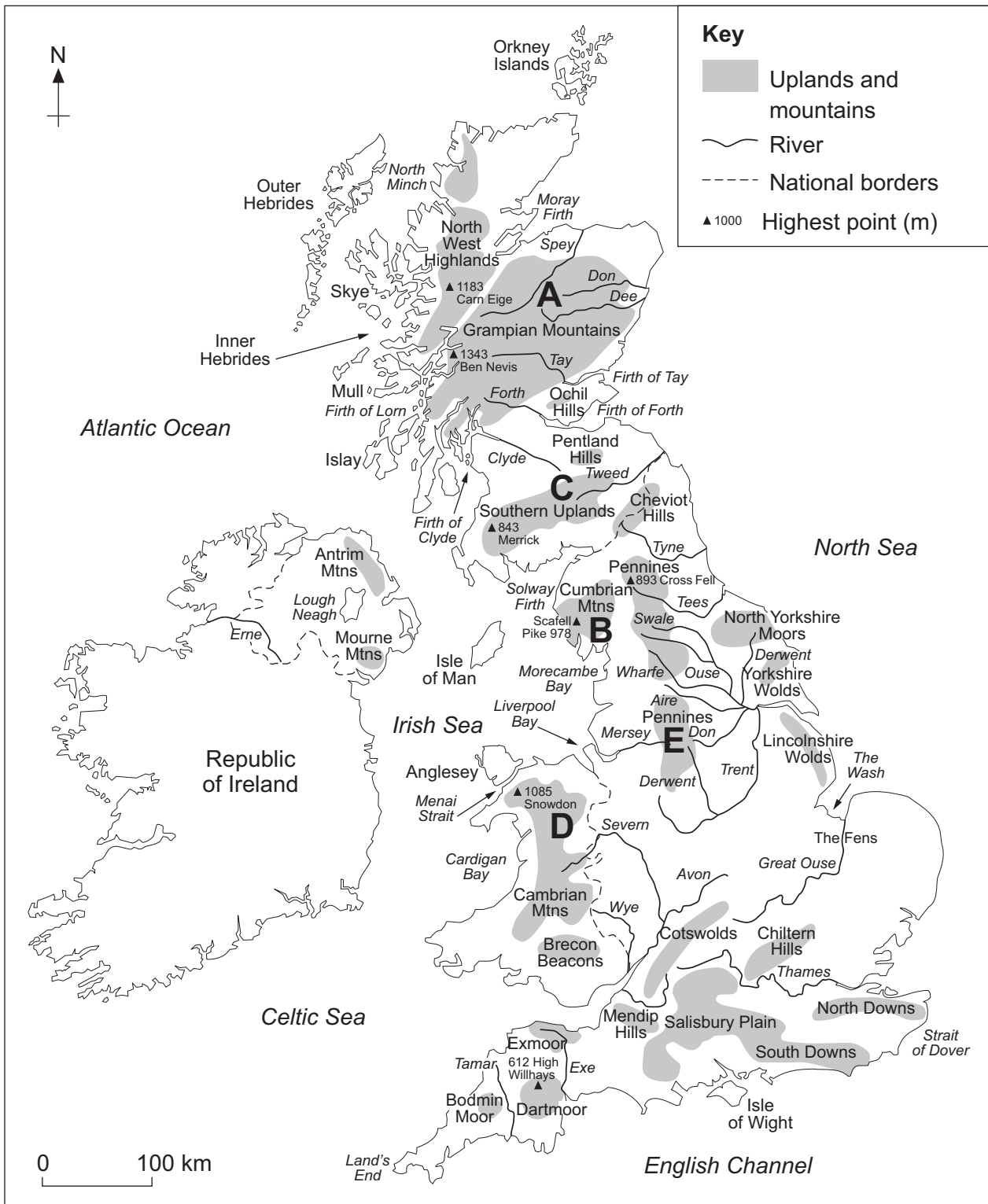
**[2 marks]**

Description of glaciated upland area	Letter
A mountainous area that includes the highest point in Wales	
A large mountainous area in Scotland where the highest point is over 1300 m	





Figure 20



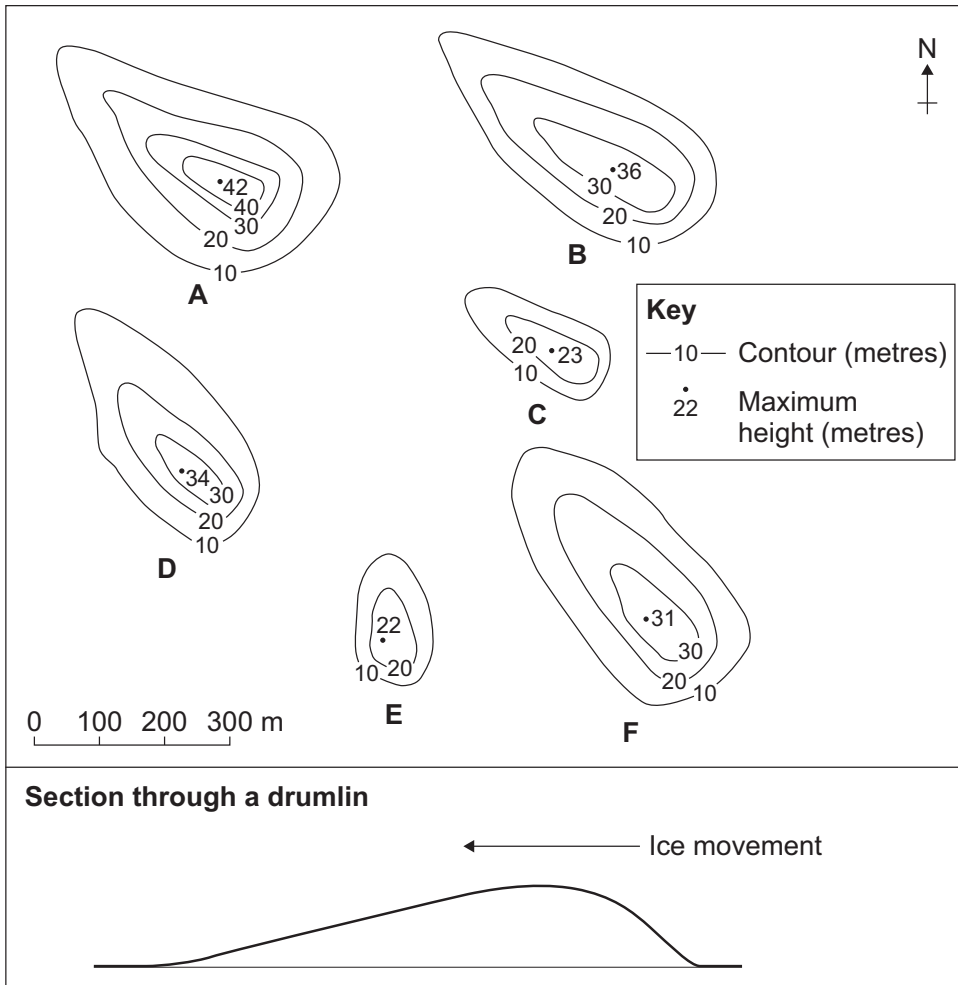
Question 5 continues on the next page

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Study **Figure 21**, a contour map and cross section showing 6 drumlins labelled **A–F**.

**Figure 21**



0 5 . 2

Describe the shape of the drumlins shown in **Figure 21**.

[1 mark]

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0 5 . 3

Using **Figure 21**, calculate the mean maximum height of the 6 drumlins.

[1 mark]

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0 5 . 4

Using evidence from **Figure 21**, suggest the general direction of movement of ice when the drumlins were formed.

[1 mark]

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0 5 . 5

Explain how glaciated areas in the UK provide economic opportunities.

[4 marks]

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**Question 5 continues on the next page**

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Study **Figure 22**, a photograph and diagram showing landforms of glacial erosion.

**Figure 22**



Image showing landform of glacial erosion (Corrie)  
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