

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel GCSE

Geography B

Unit 1: Dynamic Planet

Foundation Tier

Friday 20 January 2012 – Afternoon

Time: 1 hour

Paper Reference

5GB1F/01

You do not need any other materials.

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.
- In Section **A**, answer **ALL** questions.
- In Section **B**, answer **either** question **5** or **6**.
- In Section **C**, answer **either** question **7** or **8**.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 50.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed
– *you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.*

Advice

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

Turn over ►

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6/8/7/5/3/1



P 3 9 9 2 7 R A 0 1 2 0

PEARSON

SECTION A – INTRODUCTION TO THE DYNAMIC PLANET

Answer ALL questions.

Topic 1: Restless Earth

1 Look at Figure 1.

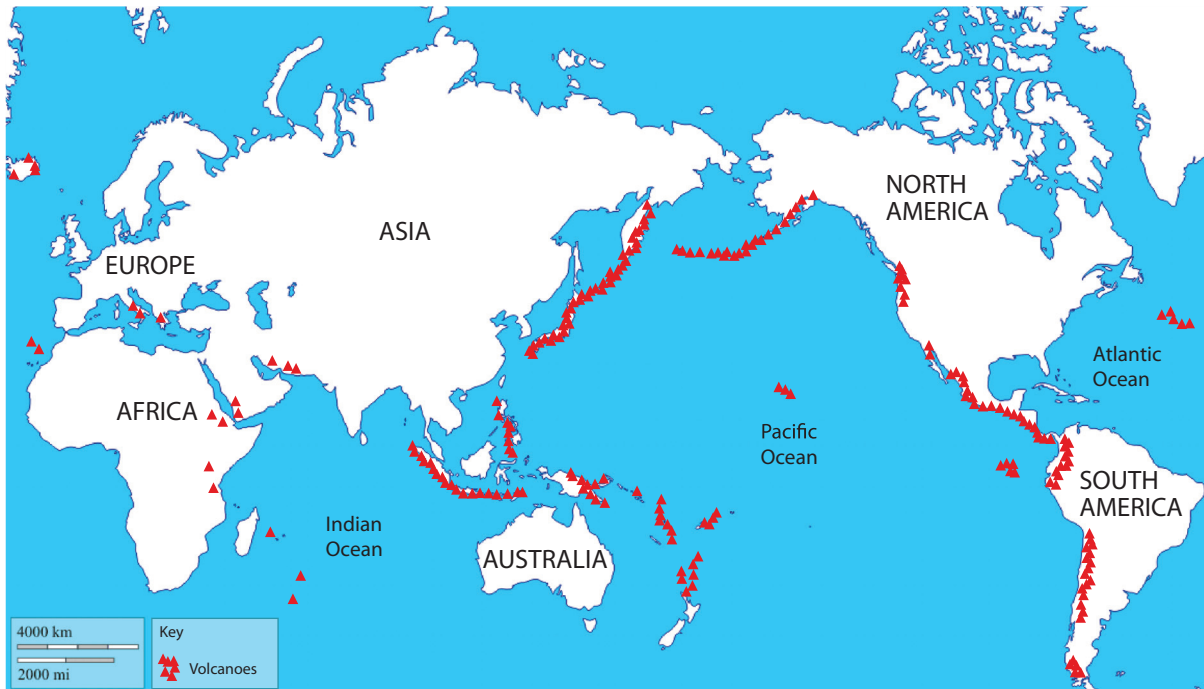


Figure 1 – The distribution of volcanoes

(a) Which **one** of the following statements is correct?

(1)

- A** There are many volcanoes around the edge of the Pacific Ocean
- B** There are many volcanoes in Australia
- C** There are many volcanoes around the edge of the Atlantic Ocean
- D** There are no volcanoes in South America

(b) (i) Give **one** threat resulting from volcanic eruptions.

(1)



(ii) What is a destructive plate boundary?

(2)

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(c) Describe **two** actions that can be taken to reduce the impact of earthquakes.

(4)

1

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2

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(Total for Question 1 = 8 marks)



Topic 2: Climate and Change

2 Look at Figure 2.

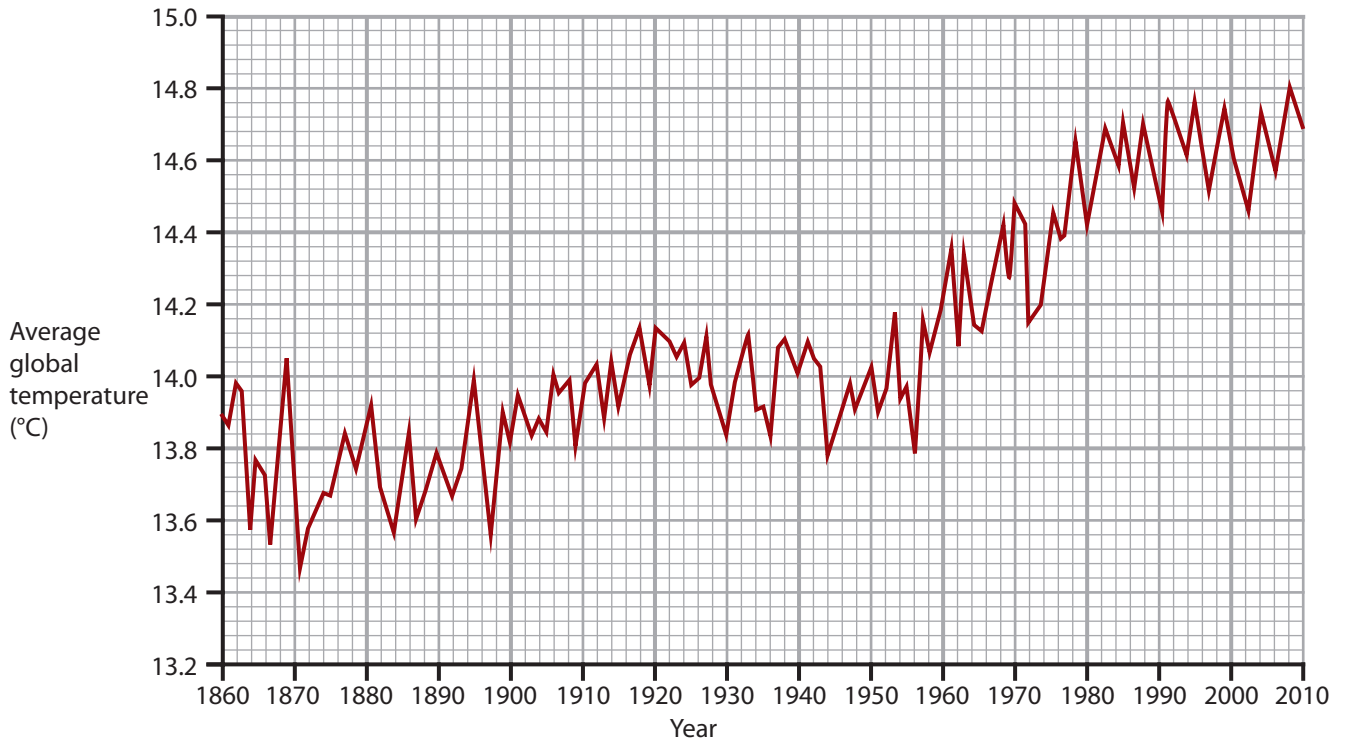


Figure 2 – Average Global Temperature, 1860 to 2010

(a) Which **one** of the following statements is correct?

(1)

- A Average global temperature has fallen since 1860
- B Average global temperature was higher in 2010 than in 1860
- C Average global temperature has remained the same since 1860
- D Average global temperature was lower in 2010 than in 1860

(b) (i) Identify **one** natural cause that might lead to a change in global temperature.

(1)

(ii) Describe **one** human activity that has led to an increase in greenhouse gases.

(2)



(c) Suggest **two** possible economic impacts of future climate change in the UK.

(4)

1

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2

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(Total for Question 2 = 8 marks)



P 3 9 9 2 7 R A 0 5 2 0

Topic 3: Battle for the Biosphere

3 Look at Figure 3.

RAINFOREST'S SUSTAINABLE FUTURE

The future of the Amazon rainforest could be helped thanks to woody-vines similar to ivy, known as lianas. When dried, they are tough but easy to twist, making them perfect to use for the production of baskets and furniture.

Using simple techniques, lianas can be harvested by local people without damaging the environment. There is no need to clear the forest and the tough vines have a resistance to local pests, reducing the need for pesticides.

Figure 3 – A newspaper article on the future of the Amazon rainforest

(a) State **two** advantages of developing an industry using lianas.

(2)

1

2



(b) Biomes and ecosystems can be affected by a range of local factors.

Complete the sentences below using **two** of the following words.

(2)

inland altitude coastal soil

..... can affect temperature, with a half degree fall for every 100 metres in height.

Drier regions are usually as winds blowing from the sea quickly lose moisture.

(c) The biosphere acts as a **life support system** for the planet.

Describe **two** ways in which it does this.

(4)

1

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2

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(Total for Question 3 = 8 marks)



Topic 4: Water World

4 Look at Figure 4.

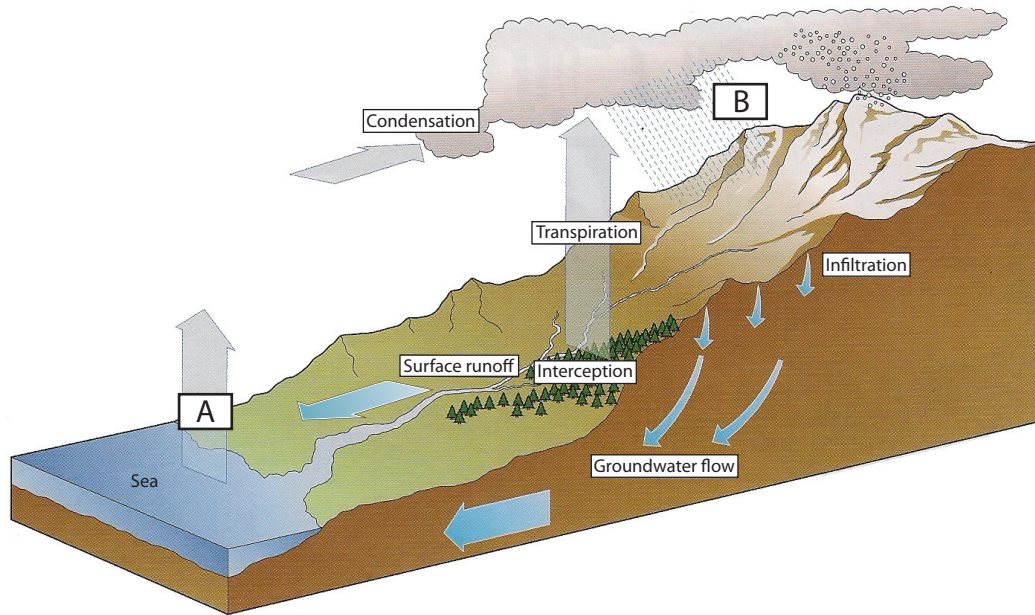


Figure 4 – The Hydrological Cycle

(a) Name the processes **A** and **B**.

(2)

A

B

(b) Outline **one** human activity that can lead to a decline in water quality.

(2)

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(c) For a named vulnerable area, describe **two** problems caused by an **unreliable** or **insufficient** water supply.

(4)

Named vulnerable area

1

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.....

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2

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(Total for Question 4 = 8 marks)

TOTAL FOR SECTION A = 32 MARKS



SECTION B – SMALL-SCALE DYNAMIC PLANET

Answer ONE question in this section.

Topic 5: Coastal Change and Conflict

If you answer Question 5 put a cross in this box .

5 Look at Figure 5.



Figure 5 – Cliff collapse on the east coast of England

(a) Outline **one** process that may have led to the cliff collapsing.

(2)

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(b) State **one** problem cliff collapse could cause for local people.

(1)

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*(c) For a named hard rock coast, explain the development of its coastal landforms.

(6)

Named hard rock coast

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(Total for Question 5 = 9 marks)



Topic 6: River Processes and Pressures

If you answer Question 6 put a cross in this box .

6 Look at Figure 6.



Figure 6 – Valley in the upper course of a river

(a) Outline **one** process that may have helped to create this valley.

(2)

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(b) Suggest **one** problem river flooding can cause for local people.

(1)

* (c) Using examples, explain the physical and human causes of river flooding.

(6)

(Total for Question 6 = 9 marks)

TOTAL FOR SECTION B = 9 MARKS



SECTION C – LARGE-SCALE DYNAMIC PLANET

Answer ONE question in this section.

Topic 7: Oceans on the Edge

If you answer Question 7 put a cross in this box .

7 Look at Figure 7.

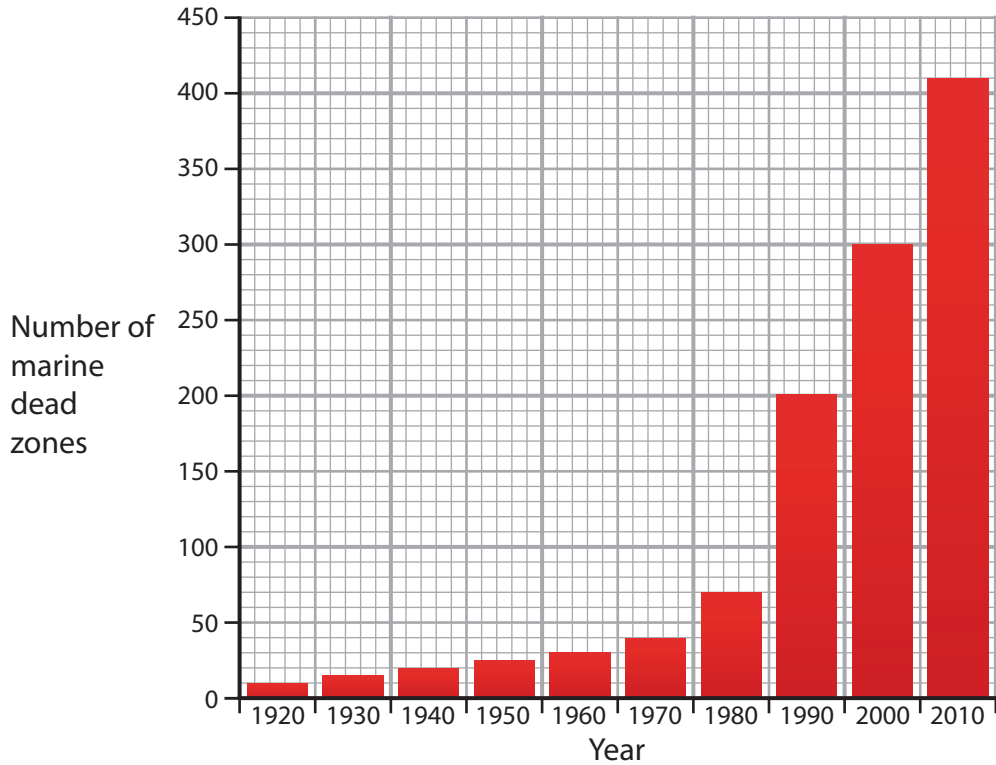


Figure 7 – A graph showing the number of degraded marine zones with little life (dead zones)

(a) Describe the changes in the number of marine dead zones.

(2)

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(b) Name **one** human activity that is degrading marine ecosystems.

(1)

* (c) Using examples, explain how marine ecosystems can be managed.

(6)

(Total for Question 7 = 9 marks)



Topic 8: Extreme Climates

If you answer Question 8 put a cross in this box .

8 Look at Figure 8.



(Source: © Kalle Pahajoki/Alamy)

Figure 8 – Plants that live in extreme climates

(a) For **either** A **or** B, identify **two** features which have enabled the plant to cope in its extreme climate.

(2)

Chosen plant

1

.....

2

.....

(b) For **either** a hot arid **or** a polar region, state **one** way local buildings have been adapted to cope with the extreme climate.

(1)

Extreme climate:

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*(c) For a named extreme environment, explain how local communities have tried to achieve sustainability.

(6)

Named extreme environment

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(Total for Question 8 = 9 marks)

TOTAL FOR SECTION C = 9 MARKS
TOTAL FOR PAPER = 50 MARKS



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