

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Question	Mark
1a	
1b	
2a	
2b	
3a	
3b	
3c	
3d	
4a	
4b	
5a	
5b	
6a	
6b	
7a	
7b	
7c	
8a	
8b	
TOTAL	



General Certificate of Secondary Education
Higher Tier
June 2013

Geography (Specification B)

40352H

H

Unit 2 Hostile World

Wednesday 12 June 2013 9.00 am to 10.00 am

For this paper you must have:

- the insert (enclosed).
- You may use a calculator.

Time allowed

- 1 hour

Instructions

- Use black ink or black ball-point pen. You may use pencil for maps, diagrams and graphs.
- Fill in the boxes at the top of this page.
- Answer **either** Section A (Questions 1 to 4) **or** Section B (Questions 5 to 8).
- 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.
- Use your case studies to support your answers where appropriate.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 56.
- You are reminded of the need for good English and clear presentation in your answers. Where applicable, questions should be answered in continuous prose. Quality of Written Communication will be assessed in all answers.
- Spelling, Punctuation and Grammar will be assessed in Questions 3(c) and 4(b) in Section A and in Questions 6(b) and 8(b)(ii) in Section B. The marks for Spelling, Punctuation and Grammar (**SPaG**) are shown below the mark allocation for each question.



J U N 1 3 4 0 3 5 2 H 0 1

Answer **either** Section A (Questions 1 to 4) **or** Section B (Questions 5 to 8).

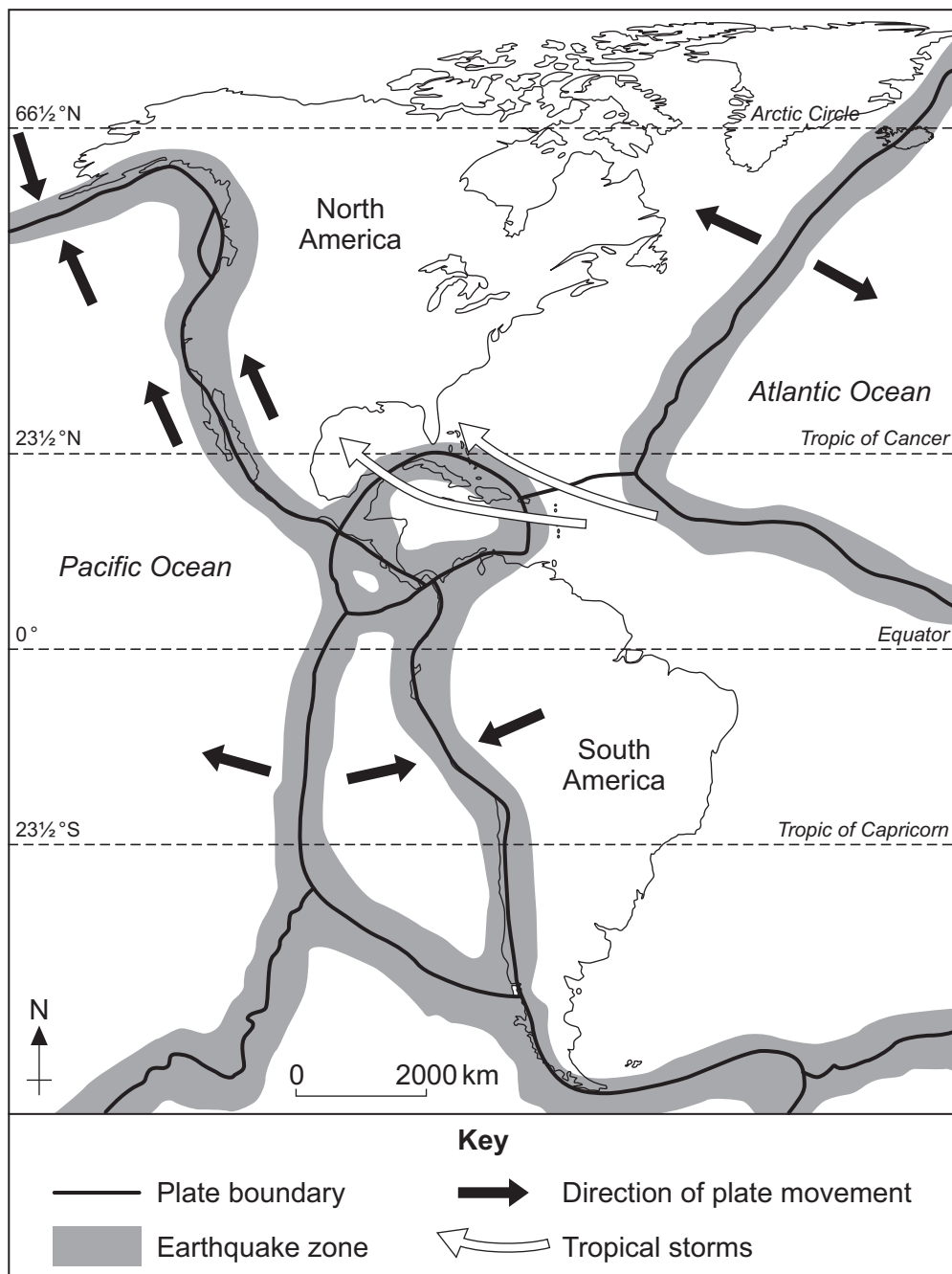
Section A – Living with Natural Hazards

Use your case studies to support your answers where appropriate.

Total for this question: 8 marks

- 1 Study **Figure 1**. **Figure 1** shows information about natural hazards in North America and in South America.

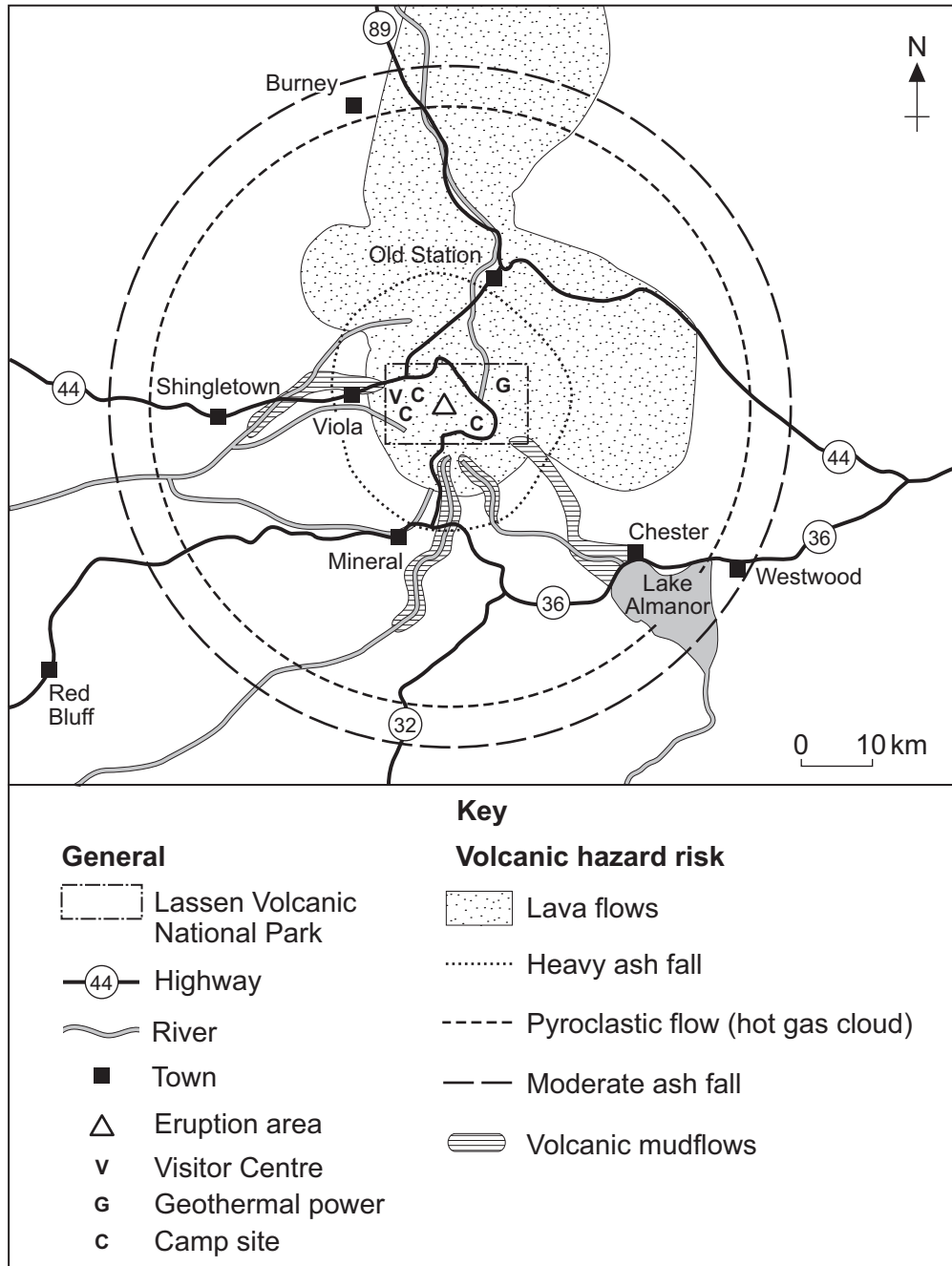
Figure 1



Total for this question: 13 marks

2 (a) Study **Figure 2**. **Figure 2** shows a volcanic hazard risk map for an area in California in the United States (US).

Figure 2



2 (a) (i) Describe the possible risks from a volcanic eruption for people living in the town of Chester. Use **Figure 2**.

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(3 marks)

2 (a) (ii) People continue to live in areas at risk from volcanic eruptions. Suggest reasons why. Use **Figure 2** and your own knowledge.

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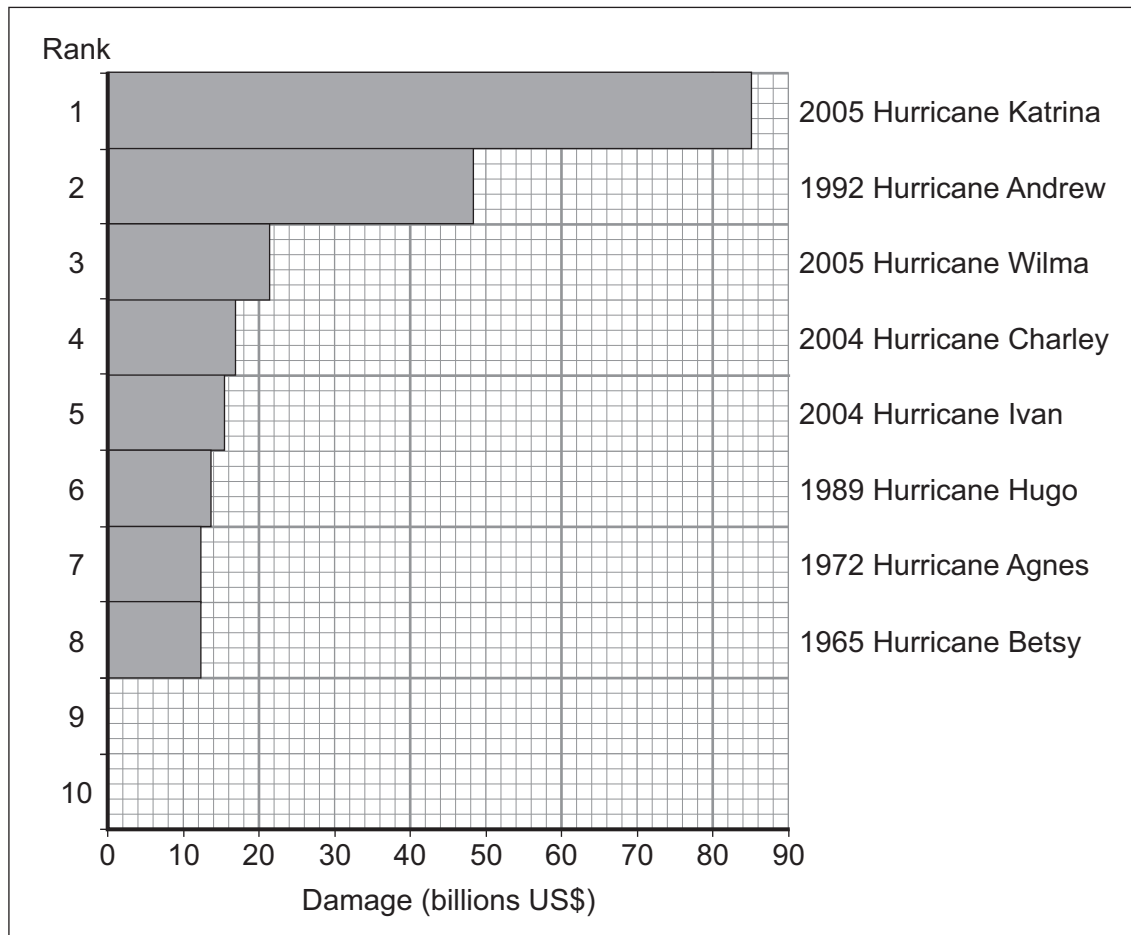
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Total for this question: 18 marks

- 3 Study **Figure 4**. **Figure 4** shows information about the ten most costly tropical storms (hurricanes) in the US between 1900 and 2010.

Figure 4



- 3 (a) Complete **Figure 4**. Use the information below.

Date	Name of hurricane	Damage (billions US\$)
1969	Camille	9
2005	Rita	12

(2 marks)

Question 3 continues on the next page

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3 (d) Study **Figure 6**. **Figure 6** shows a tropical storm forecast map.

Figure 6



With the help of **Figure 6**, describe how tropical storm forecasts can be used to help to reduce the damaging effects of tropical storms.

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Total for this question: 17 marks

4 Study **Figure 7** on the insert. **Figure 7** shows information about wildfires and weather in Russia.

4 (a) (i) Complete the sentences below. Use **Figure 7**.

During July 2010 mm of rain fell on Moscow and
temperatures were °C above the average for July. In July
2010 the area of Russia that had the highest temperature above the average
was at 53° north and ° east.

(3 marks)

4 (a) (ii) The wildfires in August 2010 seriously affected the lives of the people in Russia.

Use evidence from **Figure 7** to support this statement.

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(3 marks)

4 (b) The number of wildfires will increase in the future. This is because of climate change.

Do you agree?

Give reasons for your answer. Use **Figure 7** and your own knowledge.

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SPaG: 3 marks

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END OF SECTION A



Answer **either** Section A (Questions 1 to 4) **or** Section B (Questions 5 to 8).

Section B – The Challenge of Extreme Environments

Use your case studies to support your answers where appropriate.

Total for this question: 8 marks

- 5** Study **Figure 8**. **Figure 8** shows information about extreme environments in North America and in South America.

Figure 8



Turn over ►



Total for this question: 16 marks

- 6 (a)** Study **Figure 9**. **Figure 9** shows a map of territorial claims and oil/gas reserves in the Arctic.

Figure 9

Figure 9, which shows a map of territorial claims and oil/gas reserves in the Arctic, is not reproduced here due to third-party copyright constraints.

- 6 (a) (i)** Complete the sentences below. Use **Figure 9**.

The United States and have claimed territories that have areas which are free of ice some summers. Of the claimed territories, are free of ice all year round. Test drilling for oil/gas has only taken place in the Ocean.

(3 marks)

Turn over ►



6 (a) (ii) Suggest reasons why development has taken place in cold environments.

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6 (b) Study **Figure 10** on the insert. **Figure 10** shows an oil spill in Alaska.

Describe the possible effects of the oil industry on Alaska.

Use **Figure 10** and your own knowledge.

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SPaG: 3 marks

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Turn over for the next question

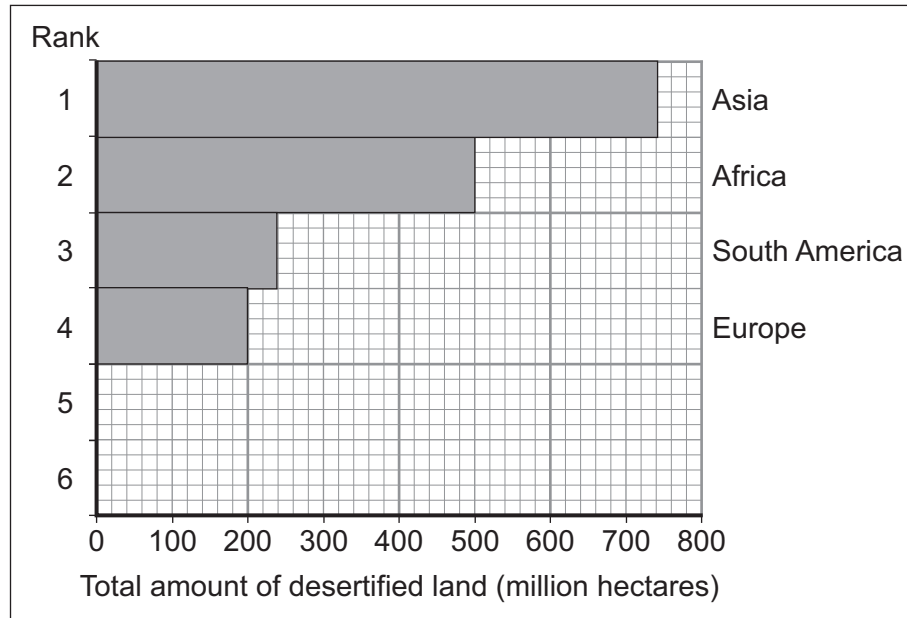
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Total for this question: 15 marks

- 7 (a)** Study **Figure 11**. **Figure 11** shows information about the amount of desertified land in six continents.

Figure 11



Complete **Figure 11**. Use the information below.

Continent	Total amount of desertified land (million hectares)
Australasia	100
North America	150

(2 marks)



7 (b) Study **Figure 12**. **Figure 12** shows information about desertification in Mali, a country in Africa.

Figure 12

A dust cloud spread over hundreds of kilometres as the wind blew across the bare earth. The fine dust was carried into the atmosphere and winds transported it across oceans and damaged coral reefs in the Caribbean. The wildlife such as antelopes, warhogs and leopards that once lived in the area has mostly gone. Many villages in the Sahel region of Mali became uninhabitable and people left to go to Bamako, the overcrowded capital city. In the villages that remain, the wells are filling with sand because the water table has fallen. Women balance large clay jars of water or huge loads of firewood on their heads. Each year the women have to travel further for the firewood and water they need. Last year many villages had no food. People were not able to grow crops on the dry land and there was little for their goats to eat. Famine is now common.

7 (b) (i) Desertification has damaged the environment.

Use evidence from **Figure 12** to support this statement.

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(4 marks)

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7 (b) (ii) Suggest how desertification affects people. Use **Figure 12** and your own knowledge.

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7 (c) Study **Figure 13**. **Figure 13** gives information about regions in two countries.

Figure 13

Indicator	Region in Country A	Region in Country B
Rural population living in poverty (%)	76	0.4
Population growth (% per year)	2.9	0.3
Proportion of land area covered by forest (%)	10	67
Average yearly rainfall (mm)	380	768



Suggest why desertification is more likely to happen in the region in Country **A** than in the region in Country **B**.

Use **Figure 13** and your own knowledge.

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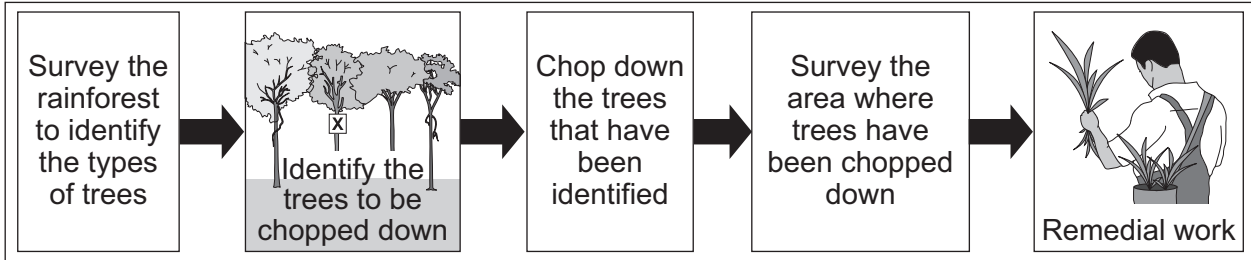
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Total for this question: 17 marks

8 (a) Study **Figure 14**. **Figure 14** shows a method of managing the tropical rainforest environment.

Figure 14



Describe the advantages of the method of managing the tropical rainforest environment shown in **Figure 14**.

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(3 marks)

8 (b) Study **Figure 15** on the insert. **Figure 15** shows information about an area of tropical rainforest.

8 (b) (i) With the help of **Figure 15**, describe the possible effects of agriculture on the tropical rainforest ecosystem.

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(3 marks)



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END OF QUESTIONS

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- Figure 8: © UN Millennium Ecosystem Assessment
- Figure 11: Food and Agriculture Organization of the United Nations
<http://www.fao.org/docrep/003/W1358e/W1358e16.jpg>
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