

Write your name here

Surname	Other names
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Pearson
Edexcel GCSE

Centre Number

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Candidate Number

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Geography B

Unit 1: Dynamic Planet

Higher Tier

Tuesday 13 May 2014 – Afternoon
Time: 1 hour 15 minutes

Paper Reference
5GB1H/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 78.
- 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.*
- The marks available for spelling, punctuation and grammar are clearly indicated.

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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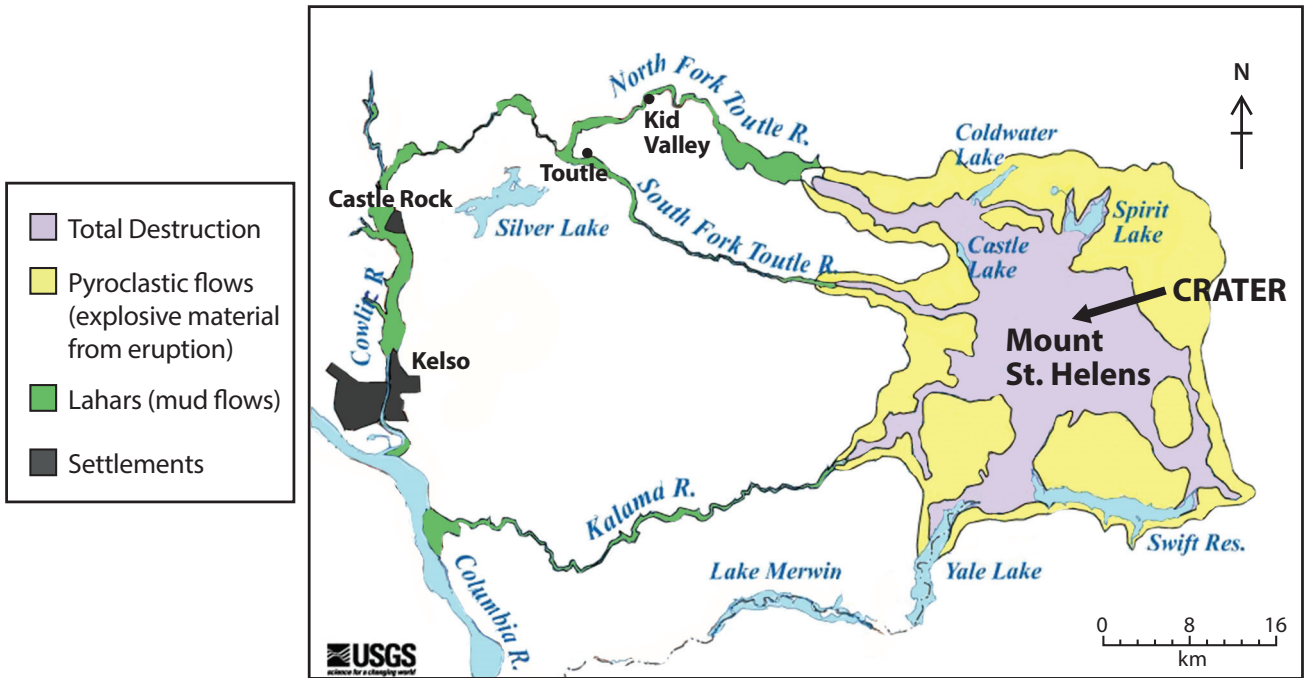
PEARSON

SECTION A – INTRODUCTION TO THE DYNAMIC PLANET

Answer ALL questions in this section

Topic 1: Restless Earth

1 Figure 1 is a map of the Mount St. Helens area showing possible future hazards.



(Source: US Geological Survey, Department of the Interior/USGS)

Figure 1

(a) Study Figure 1.

State **two** possible impacts of a volcanic eruption on the settlement of Kelso.

(2)

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(b) Describe how convection currents cause plate movements.

You may draw a diagram in the space below to help your answer.

(4)



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(c) Explain how hazard-resistant design can reduce the impact of earthquakes in the **developing** world.

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(Total for Question 1 = 12 marks)



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Question 2 is on the next page



Topic 2: Changing Climate

2 Figure 2 shows annual temperature variations in Europe between 900AD and 2000AD.

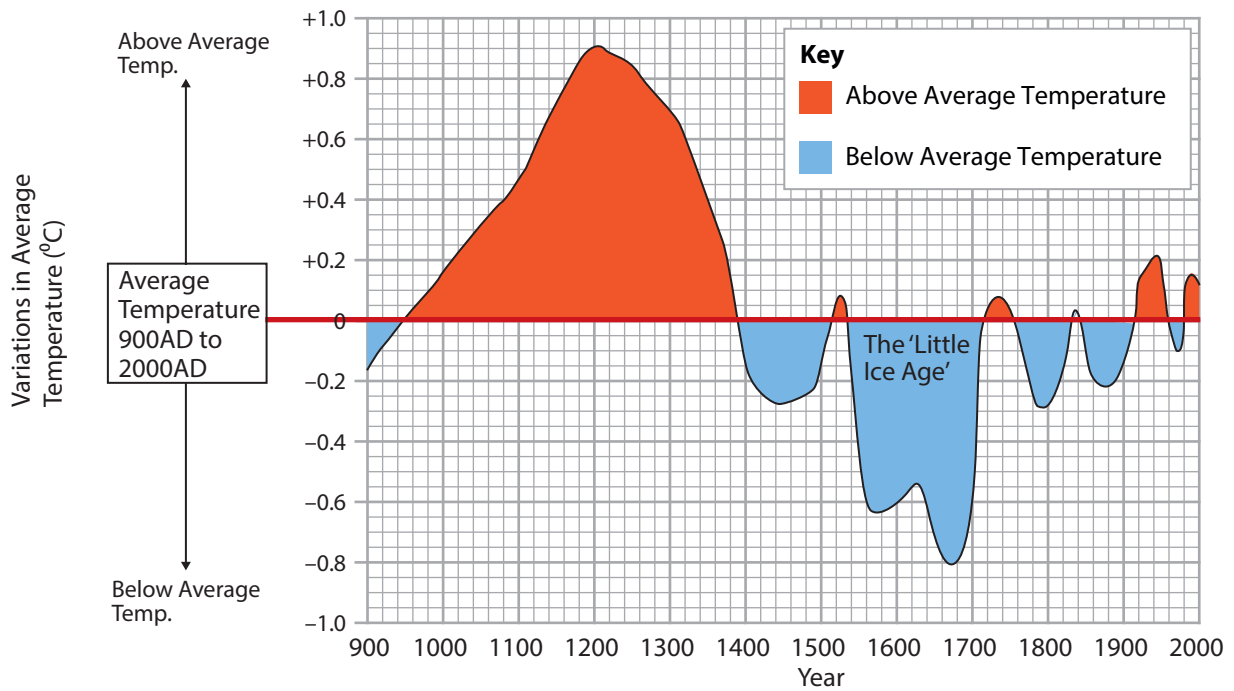


Figure 2

(a) Study Figure 2.

Describe how the average annual temperature varied between 1000AD and 1350AD.

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(b) Explain why the **UK's** climate might change in the future.

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(c) Explain why the impact of future climate change is likely to be more severe in developing countries than in the UK.

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(Total for Question 2 = 12 marks)



Topic 3: Battle for the Biosphere

3 Figure 3 shows the importance of different causes of deforestation in Brazil between 2000 and 2005.

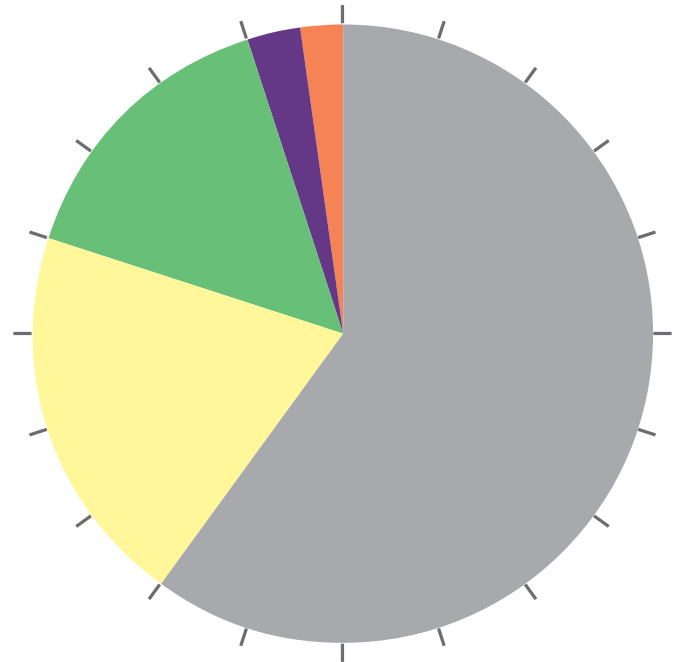
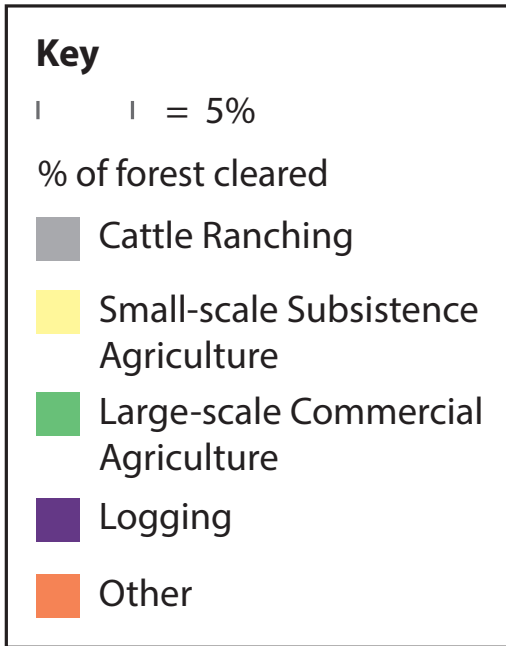


Figure 3

(a) Study Figure 3.

Describe **one** benefit of deforestation for Brazil.

(2)

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Topic 4: Water World

4 Figure 4 shows the percentages of people with access to clean water in four developing countries in 1988 and 2005.

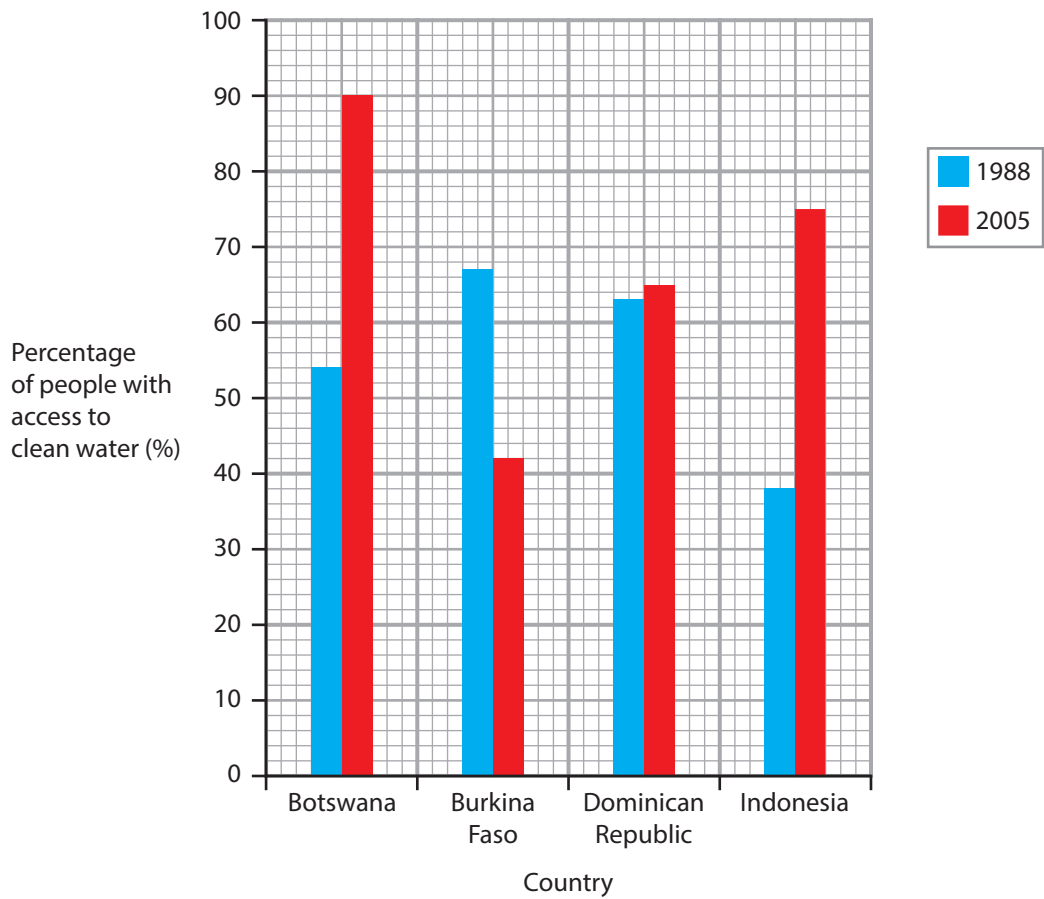


Figure 4

(a) Study Figure 4.

Describe the changes in access to clean water between 1988 and 2005.

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(b) Explain how intensive agriculture can affect water quality.

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(c) Explain the likely impact of climate change on the hydrological cycle.

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(Total for Question 4 = 12 marks)

TOTAL FOR SECTION A = 48 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 the box .

Spelling, punctuation and grammar will be assessed in 5*(b).

5 Figure 5 shows the management measures used to protect a section of coastline.



(Source: © www.geographyphotos.com)

Figure 5

(a) Study Figure 5.

(i) Outline **one** benefit of using sea walls to protect the coastline.

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(ii) Outline why some local residents may object to the sea wall.

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*(b) Examine the importance of destructive waves in the formation of coastal landforms.

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(Total for spelling, punctuation and grammar = 3 marks)
(Total for Question 5 = 15 marks)



Topic 6: River Processes and Pressures

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

Spelling, punctuation and grammar will be assessed in 6*(b).

6 Figure 6 shows the management measures used to control river flooding.



Figure 6

(a) Study Figure 6.

(i) Outline **one** benefit of building levees to control river flooding.

(2)

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(ii) Outline **one** disadvantage of using levees to control river flooding.

(2)

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*(b) Examine the importance of deposition in the formation of landforms in the lower course of a river.

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(Total for spelling, punctuation and grammar = 3 marks)
(Total for Question 6 = 15 marks)

TOTAL FOR SECTION B = 15 MARKS



SECTION C – LARGE-SCALE DYNAMIC PLANET

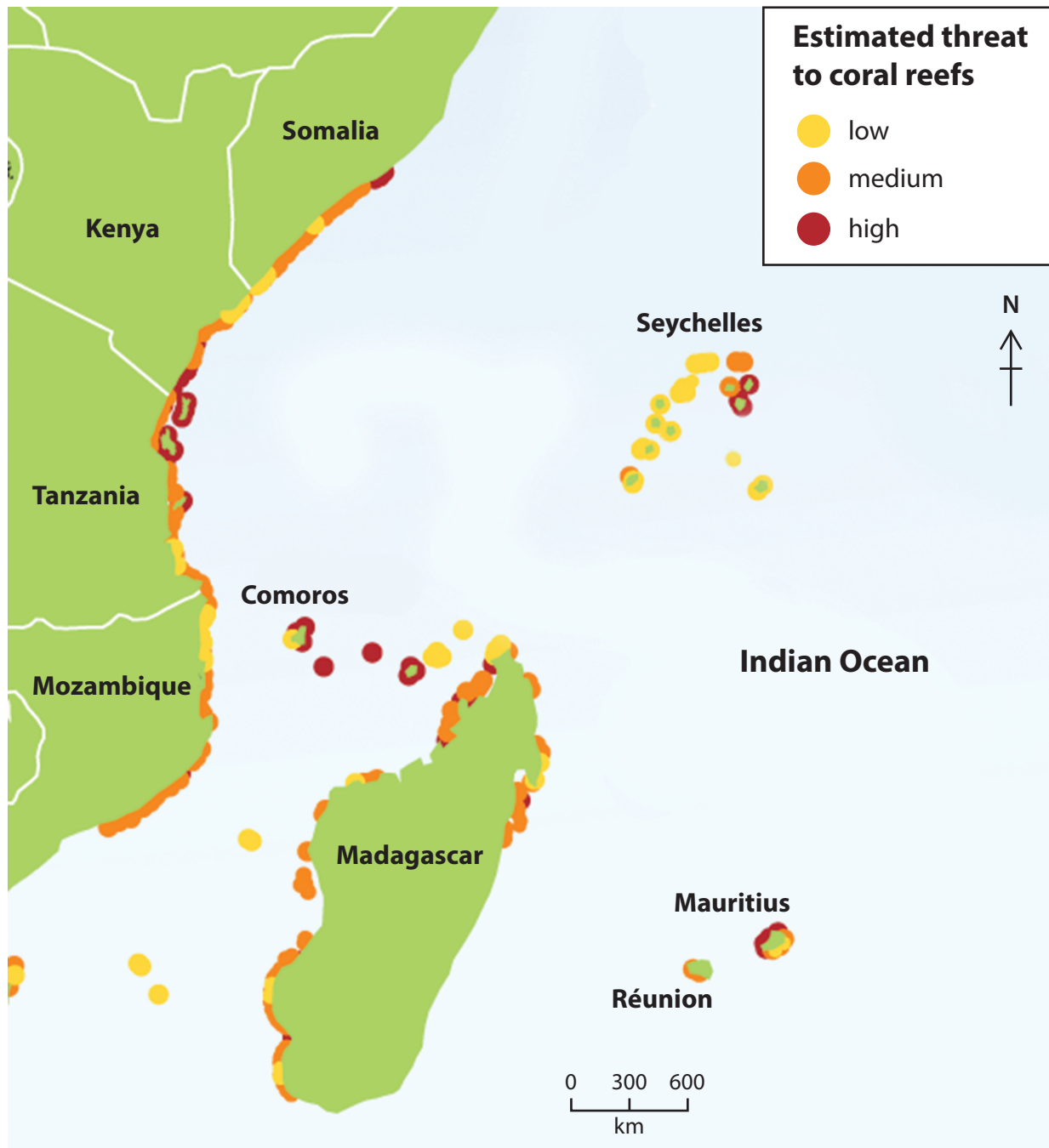
Answer ONE question in this section.

Topic 7: Oceans on the Edge

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

Spelling, punctuation and grammar will be assessed in 7*(b).

7 Figure 7 shows the estimated threat to coral reefs in part of the Indian Ocean.



(Source: © Phillipe Rekacewiz, UNEP/GRID - Arendal)

Figure 7



(a) Study Figure 7.

(i) Describe the distribution of threatened coral reefs on the coast of Madagascar.

(2)

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(ii) Outline **one** possible reason why some marine eco-systems are more threatened than others.

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*(b) Examine how **local** actions can help protect marine eco-systems.

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(Total for spelling, punctuation and grammar = 3 marks)
(Total for Question 7 = 15 marks)



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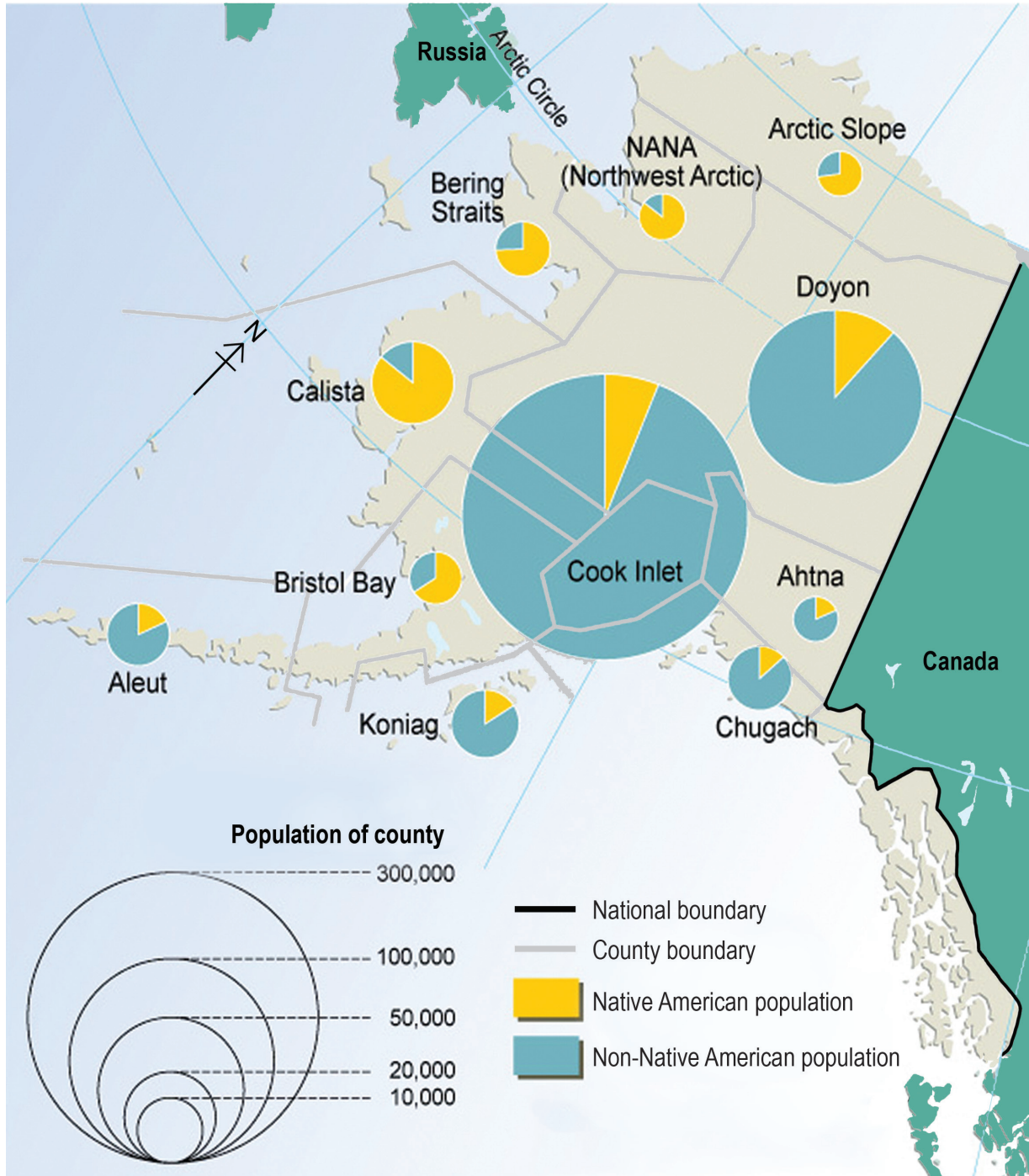


Topic 8: Extreme Environments

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

Spelling, punctuation and grammar will be assessed in 8*(b).

8 Figure 8 shows the population of counties in Alaska, USA.



(Source: © Phillipe Rekacewiz, UNEP/GRID - Arendal)

Figure 8



(a) Study Figure 8.

(i) Describe the distribution of Alaska's Native American population.

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(ii) Outline **one** reason why some communities in extreme environments are under threat from out-migration.

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***(b)** Examine how **local** actions can help communities survive in extreme environments.

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(Total for spelling, punctuation and grammar = 3 marks)
(Total for Question 8 = 15 marks)

TOTAL FOR SECTION C = 15 MARKS
TOTAL FOR PAPER = 78 MARKS



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