



GCE AS/A level

1201/01

GEOGRAPHY G1

CHANGING PHYSICAL ENVIRONMENTS

A.M. FRIDAY, 14 January 2011

1½ hours

ADDITIONAL MATERIALS

In addition to this examination paper, you will need one 12 page answer book.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Answer **all** questions.

Write your answers in the separate answer book provided.

Write your name, centre number and candidate number in the spaces at the top of the answer book.

INFORMATION FOR CANDIDATES

Each question carries **25** marks.

The number of marks is given in brackets at the end of each question or part-question.

You are reminded that assessment will take into account the quality of written communication used in your answers.

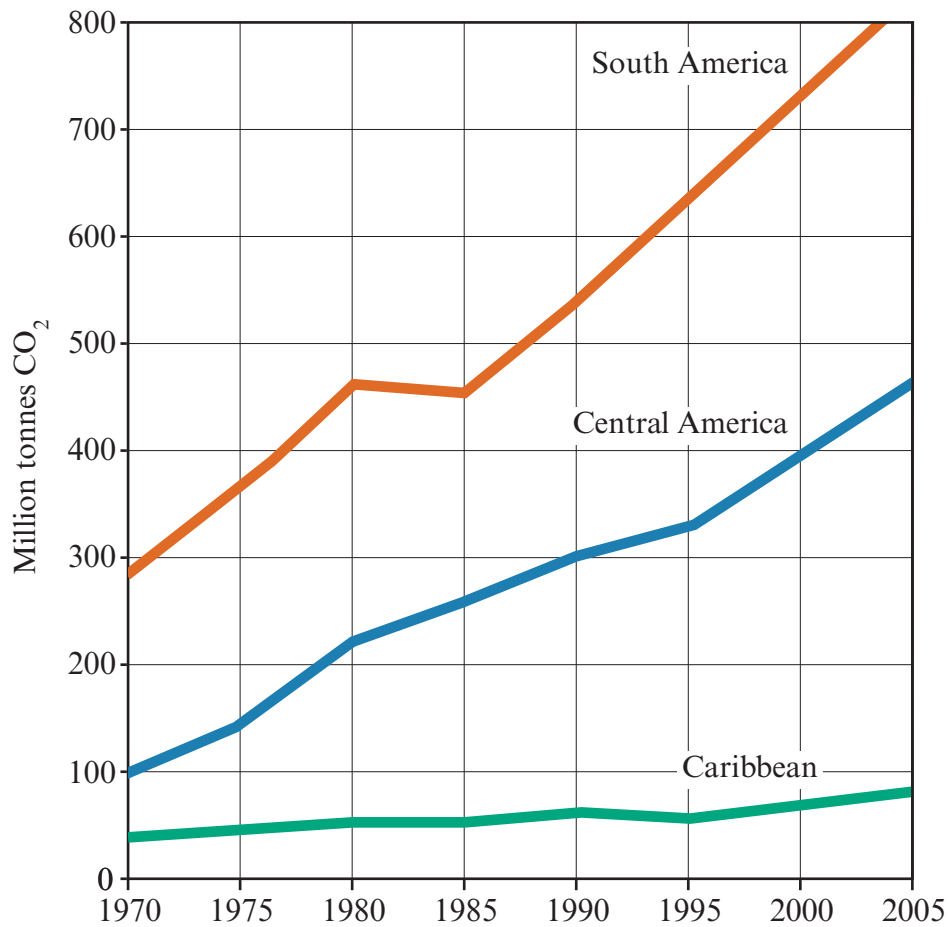
THIS PAPER REQUIRES THAT YOU MAKE THE FULLEST POSSIBLE USE OF APPROPRIATE EXAMPLES IN SUPPORT OF YOUR ANSWERS. SKETCH-MAPS AND DIAGRAMS SHOULD BE INCLUDED WHERE RELEVANT.

G1 - CHANGING PHYSICAL ENVIRONMENTS

Answer all questions.

Make the fullest possible use of examples in support of your answers.

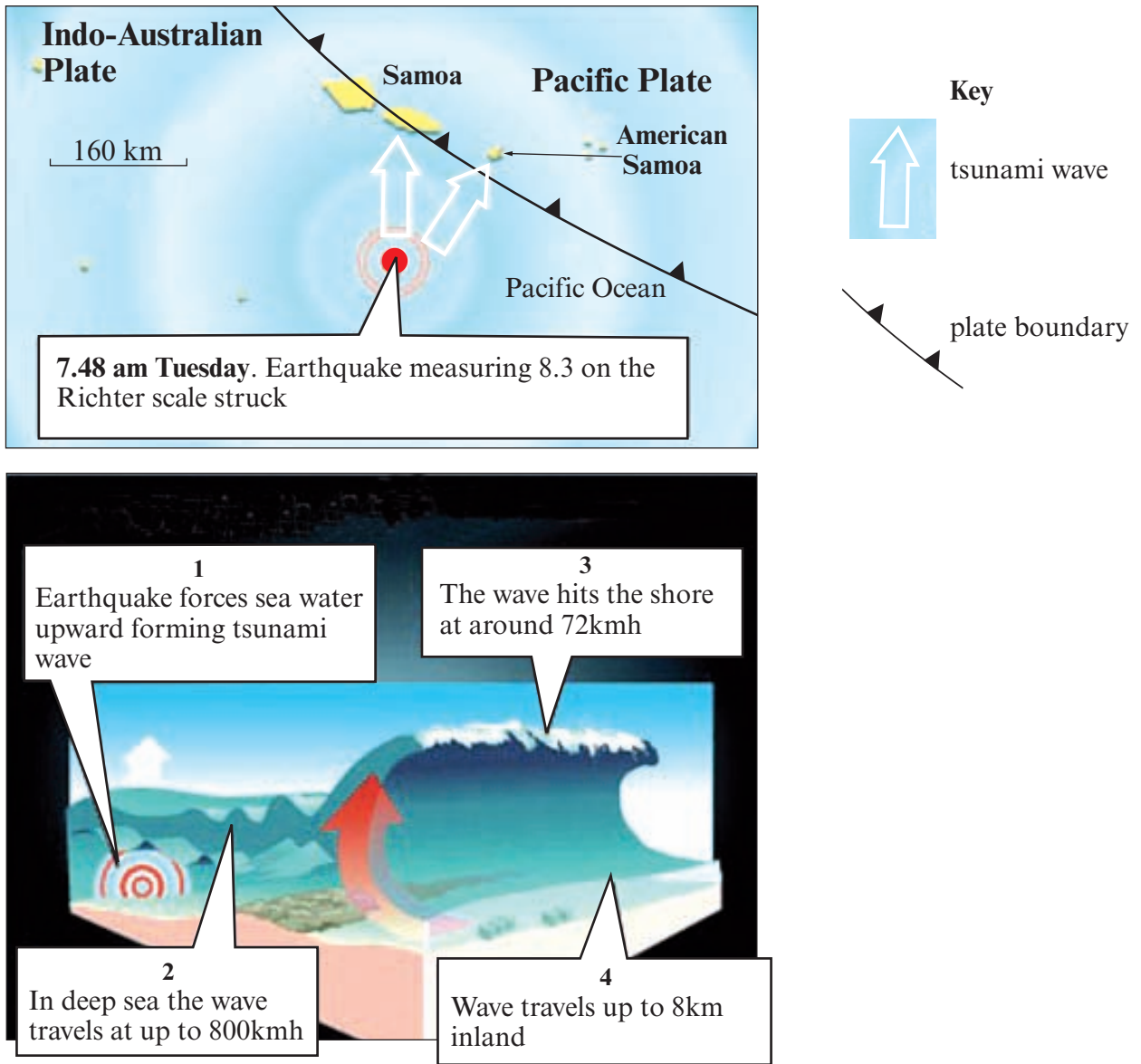
Figure 1: Carbon dioxide (CO₂) emissions in South and Central America and the Caribbean, 1970 to 2005



Adapted from United Nations Environment Programme / GRID-Arendal

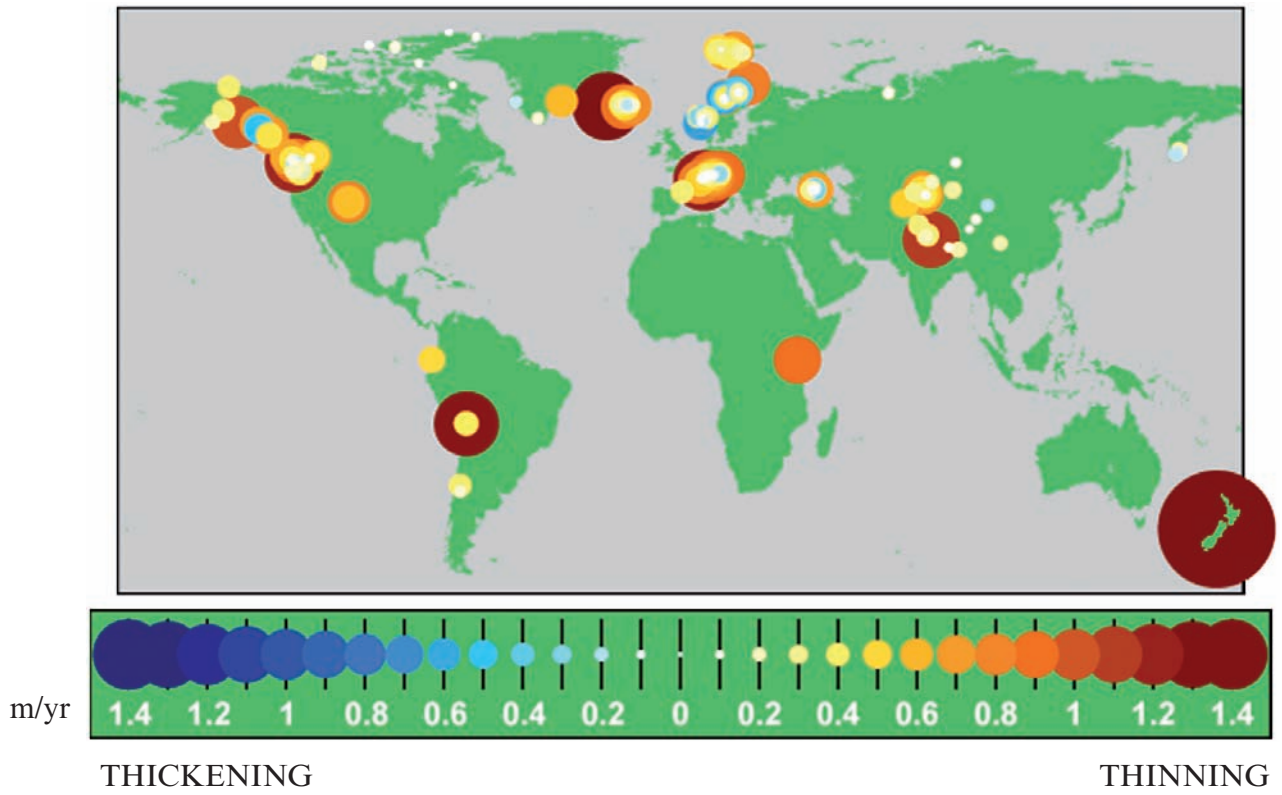
1. (a) Compare the carbon dioxide emissions shown in **Figure 1**. [5]
- (b) Explain **two** natural processes that may contribute to climate change. [10]
- (c) Describe and explain how climate change may affect climatic belts and biomes. [10]

Figure 2: Pacific tsunami, Tuesday 29th October 2009



2. (a) Describe the location and characteristics of the tectonic event shown in **Figure 2**. [5]
- (b) Explain the tectonic processes that occur at constructive plate margins. [10]
- (c) Discuss the demographic and social impacts of:
Either, one or more tectonic events
Or, one or more flood events. [10]

Figure 3: Changes in mountain glacier thickness since 1970



Source: <http://globalwarmingart.com>

3. (a) Use **Figure 3** to describe the changes in ice thickness since 1970. [7]
- (b) Outline the advantages and disadvantages of the method used to show changes in ice thickness in **Figure 3**. [8]
- (c) Evaluate the methods used to collect data in an investigation into a changing physical environment that you have completed. [10]

You should state clearly the question that you have investigated.

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