



**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.

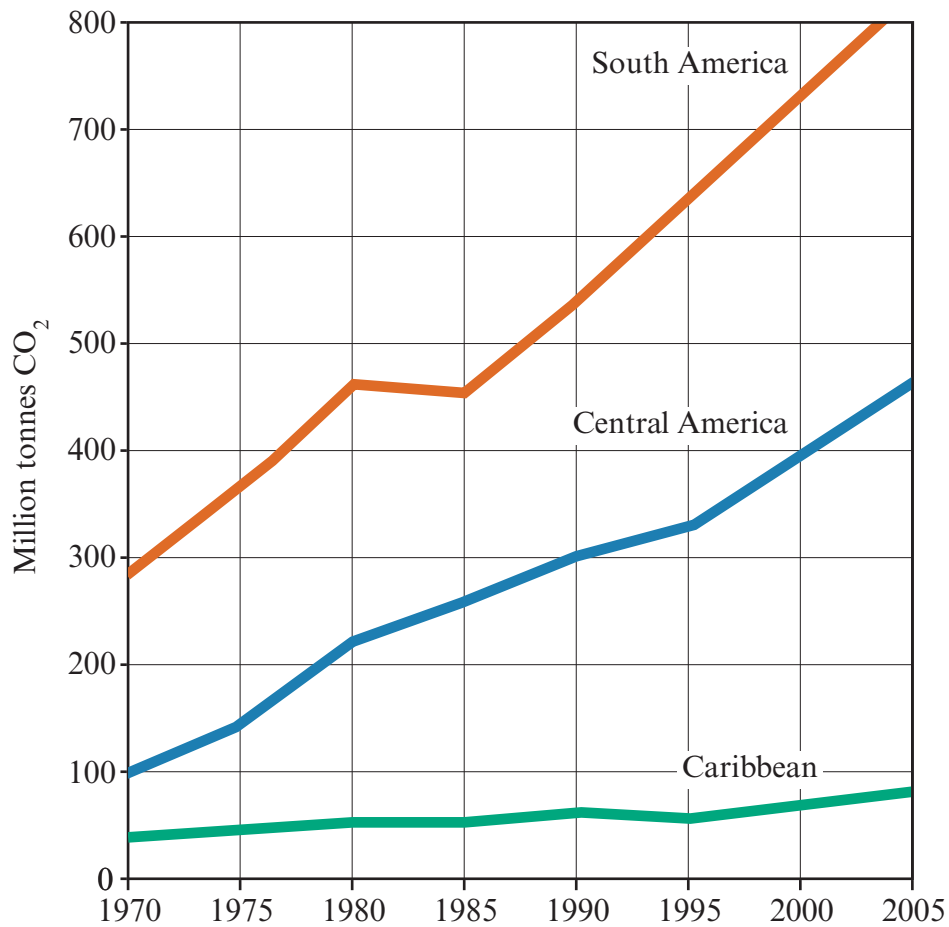
**THIS PAPER REQUIRES THAT YOU MAKE THE FULLEST POSSIBLE USE OF APPROPRIATE EXAMPLES IN SUPPORT OF YOUR ANSWERS. SKETCH-MAPS AND DIAGRAMS SHOULD BE INCLUDED WHERE RELEVANT.**

## G1 - CHANGING PHYSICAL ENVIRONMENTS

*Answer all questions.*

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

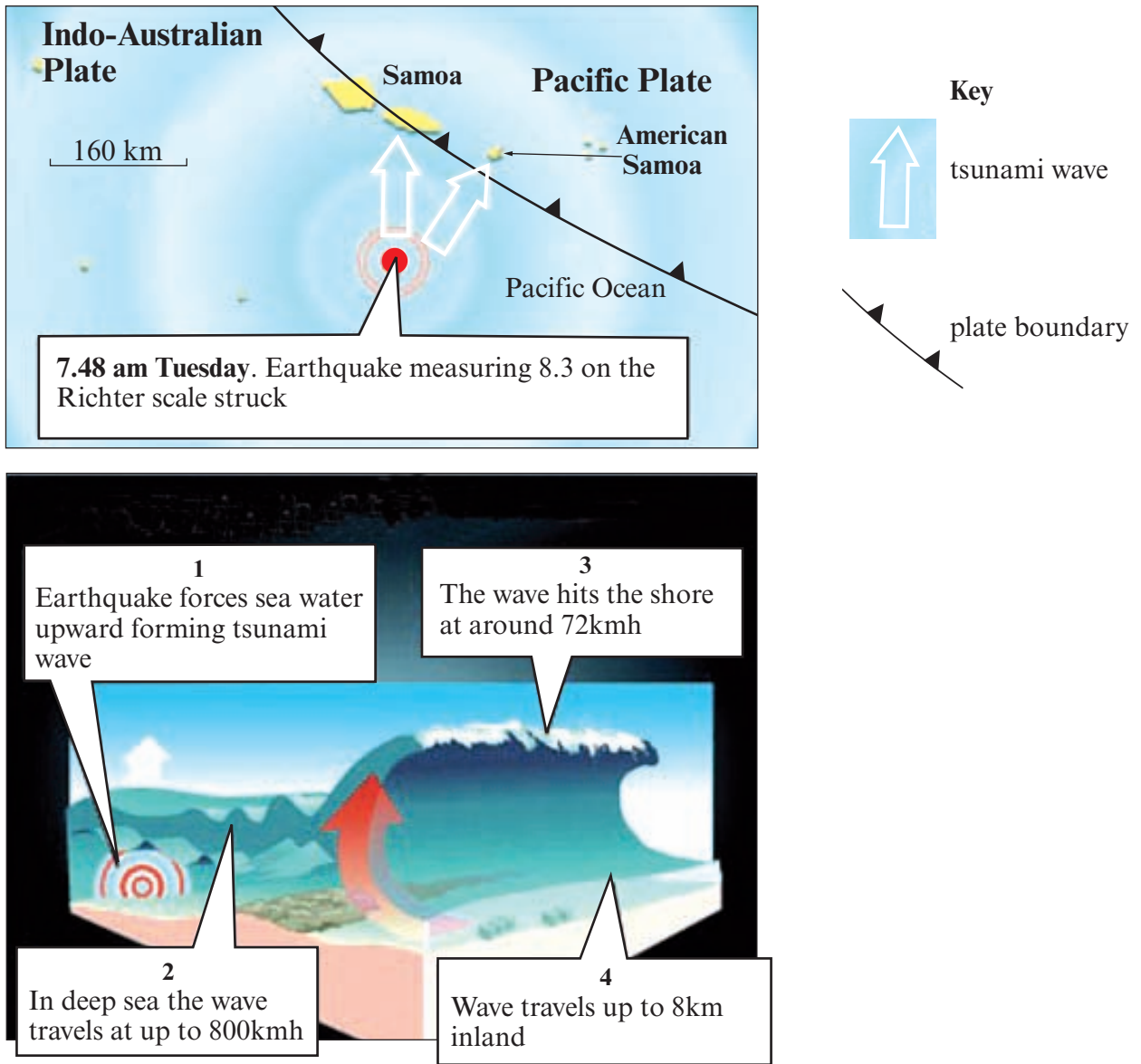
**Figure 1: Carbon dioxide (CO<sub>2</sub>) emissions in South and Central America and the Caribbean, 1970 to 2005**



*Adapted from United Nations Environment Programme / GRID-Arendal*

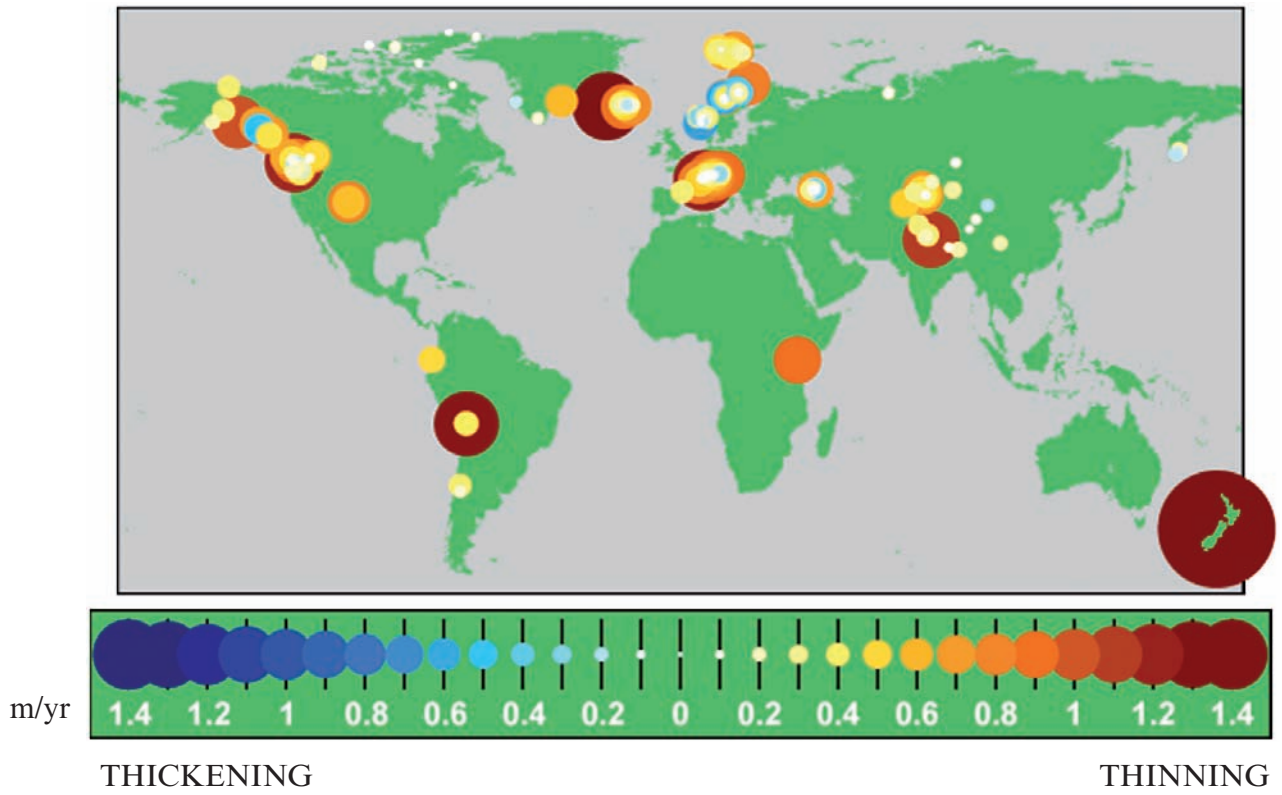
1. (a) Compare the carbon dioxide emissions shown in **Figure 1**. [5]
- (b) Explain **two** natural processes that may contribute to climate change. [10]
- (c) Describe and explain how climate change may affect climatic belts and biomes. [10]

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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