



**GCE AS/A level**

**1201/01**

**GEOGRAPHY – G1**

**Changing Physical Environments**

**A.M. TUESDAY, 12 May 2015**

**1 hour 30 minutes plus your additional time allowance**

**ADDITIONAL MATERIALS**

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

**INSTRUCTIONS TO CANDIDATES**

**Use black ink, black ball-point pen or your usual method.**

**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.**

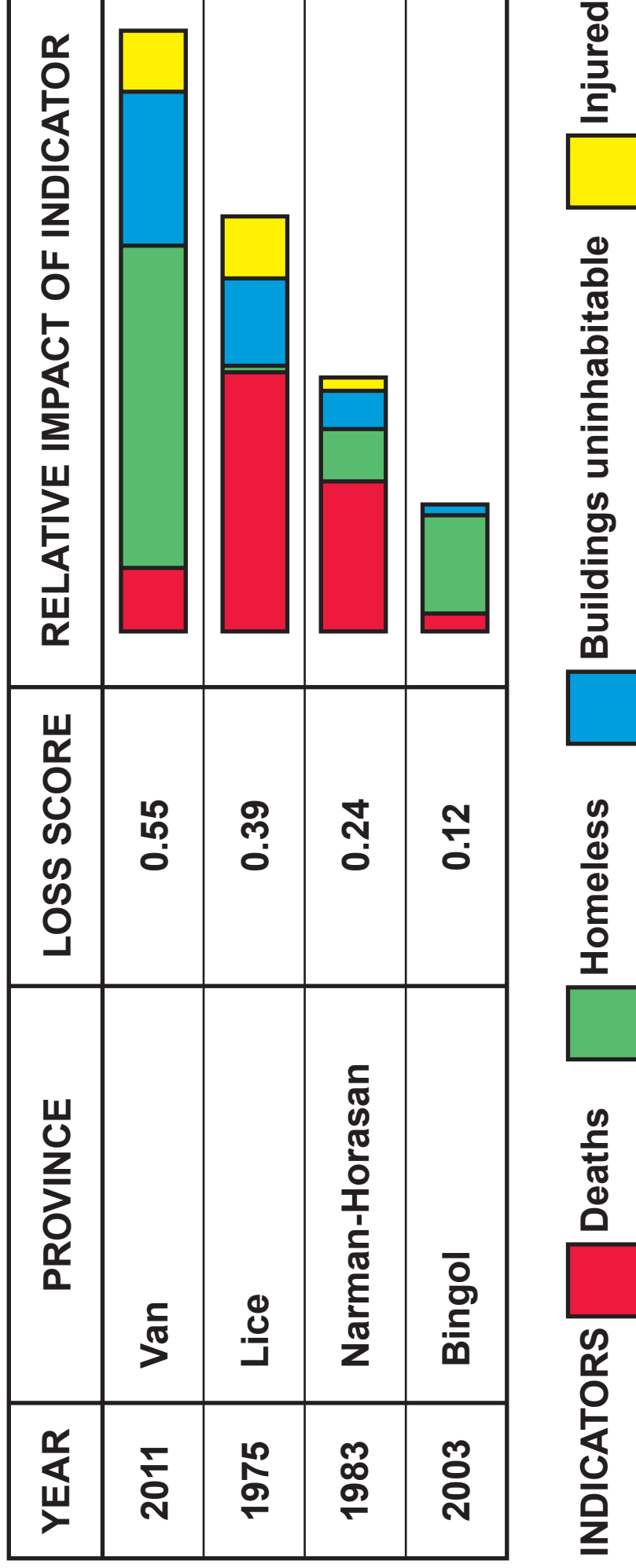
## **G1 – CHANGING PHYSICAL ENVIRONMENTS**

**Answer ALL questions.**

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

- 1(a) Describe the pattern of temperature deviations shown in FIGURE 1A opposite. [5]**
  
- (b) Outline the effects on human activities of ONE OR MORE extreme weather events. [10]**
  
- (c) Discuss the success of strategies used by pressure groups and/or individuals to address climate change. [10]**

**FIGURE 2: LOSS SCORES FROM EARTHQUAKES IN EASTERN TURKEY**



A loss score is a measure of the overall impact of an earthquake which takes into account the relative importance of different indicators.

A score of 1 shows the greatest disaster impact and a score of 0 the least.

Source: adapted from <http://earthquake-report.com>

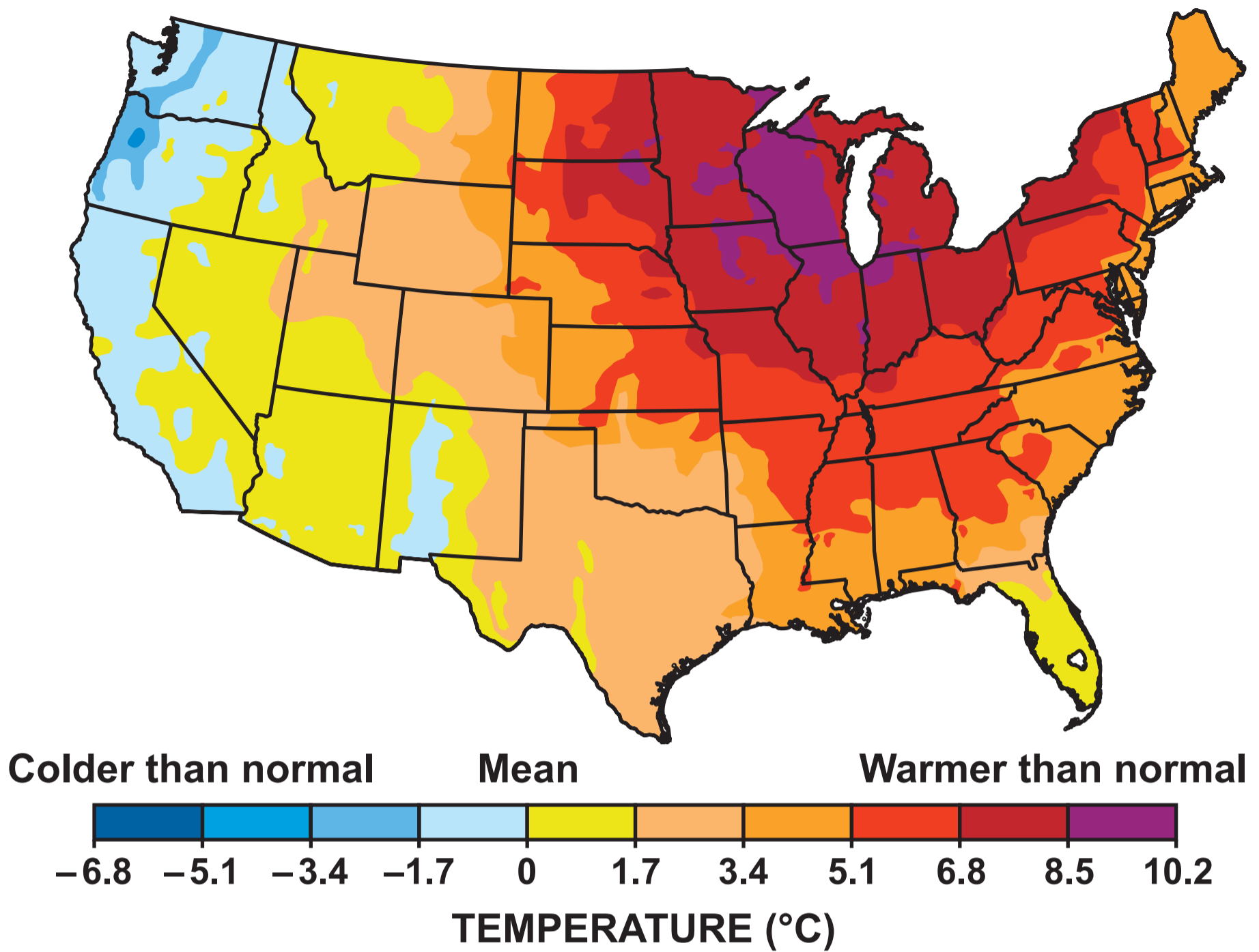
- 2(a) Compare the loss scores from earthquakes shown in FIGURE 2 opposite. [5]**
- (b) Outline the tectonic processes operating at constructive plate margins and conservative plate margins. [10]**
- (c) Outline the social and economic impacts of ONE OR MORE tectonic events. [10]**

- 3(a) Describe the variations in flood risk shown in FIGURE 3 opposite. [7]**
- (b) Describe how you would collect information on people's views of the ECONOMIC impacts of flooding. [8]**
- (c) Discuss the strengths and weaknesses of TWO methods used to present information for an investigation into a changing physical environment that you have completed. [10]**

**You should state clearly the question that you have investigated.**

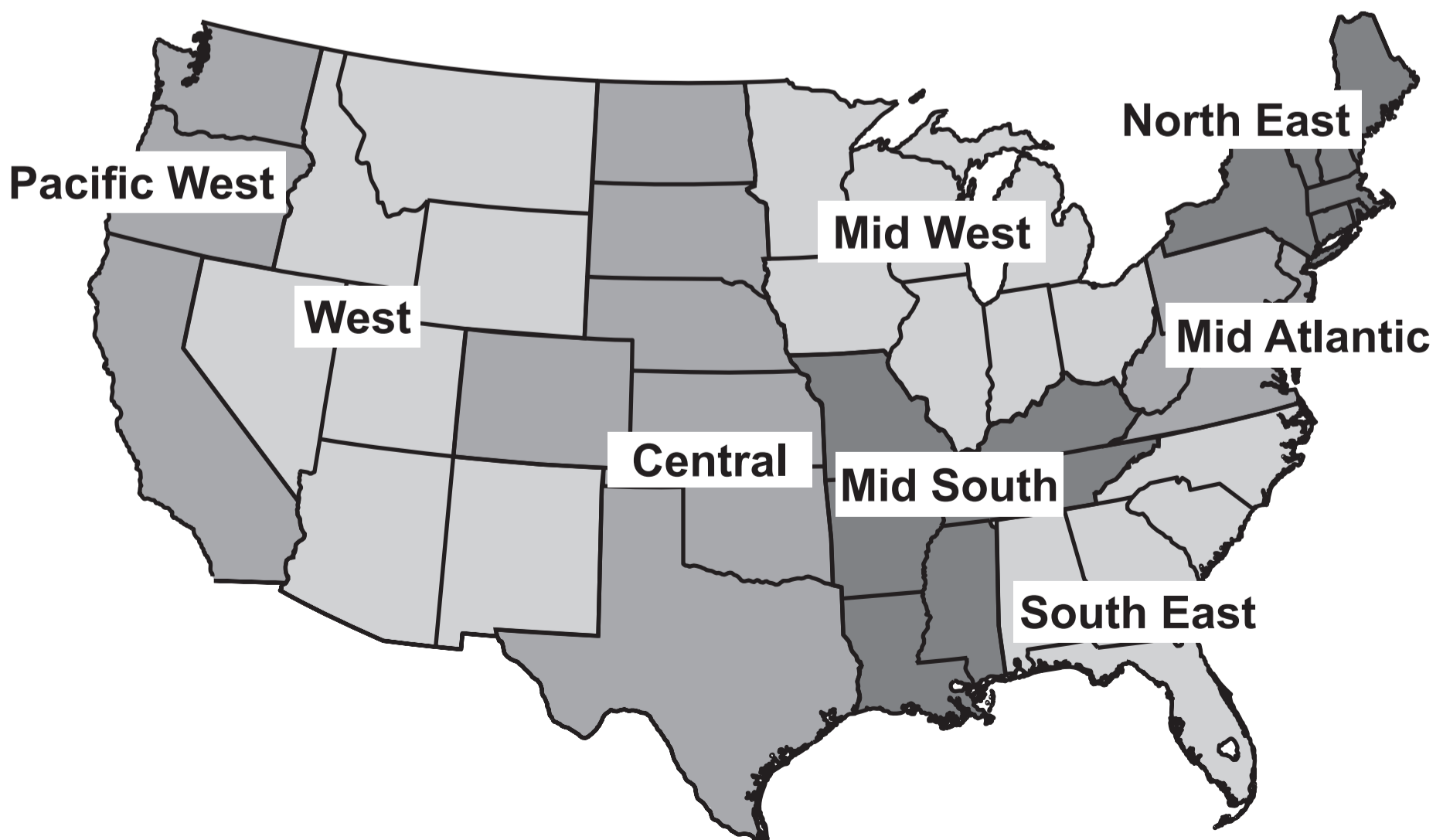
**END OF PAPER**

**FIGURE 1A: TEMPERATURE DEVIATIONS FROM THE MEAN IN THE USA, MARCH 2012**



Source: adapted from <http://www.ncdc.noaa.gov>

**FIGURE 1B: MAJOR REGIONS OF THE USA**





**FIGURE 3: COMPUTER MODEL OF FLOOD RISK OF THE RIVER WANSBECK, NORTHUMBERLAND**



**FIGURE 3A: RECURRENCE INTERVAL 5-25 YEARS**

Discharge: 150–225 m<sup>3</sup>/s  
Rainfall intensity: 3–4.5 mm/hr



**KEY**



**Predicted flood zone**



**FIGURE 3B: RECURRENCE INTERVAL 40-50 YEARS**

Discharge: 270–300 m<sup>3</sup>/s  
Rainfall intensity: 5.5–6.5 mm/hr



**KEY**



**Predicted flood zone**



**FIGURE 3C: RECURRENCE INTERVAL 75-137 YEARS**

Discharge: 325–345 m<sup>3</sup>/s  
Rainfall intensity: 7–7.5 mm/hr



**KEY**



**Predicted flood zone**