



GCE AS/A level

1201/01

New AS

GEOGRAPHY - G1

P.M. TUESDAY, 19 May 2009

1½ hours

ADDITIONAL MATERIALS

In addition to this examination paper, you will need an 8 page answer book.

INSTRUCTIONS TO CANDIDATES

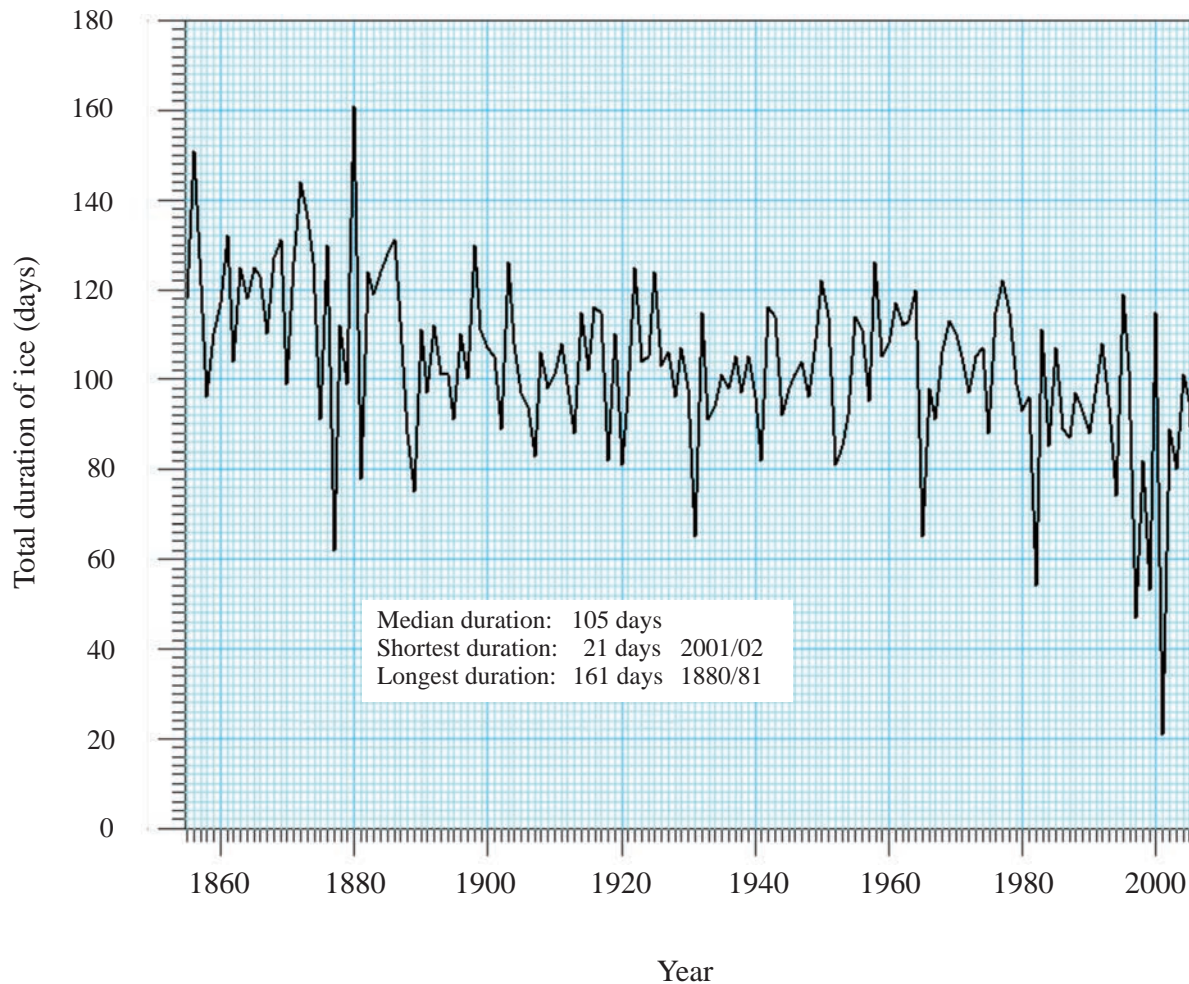
Answer **all** questions.

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

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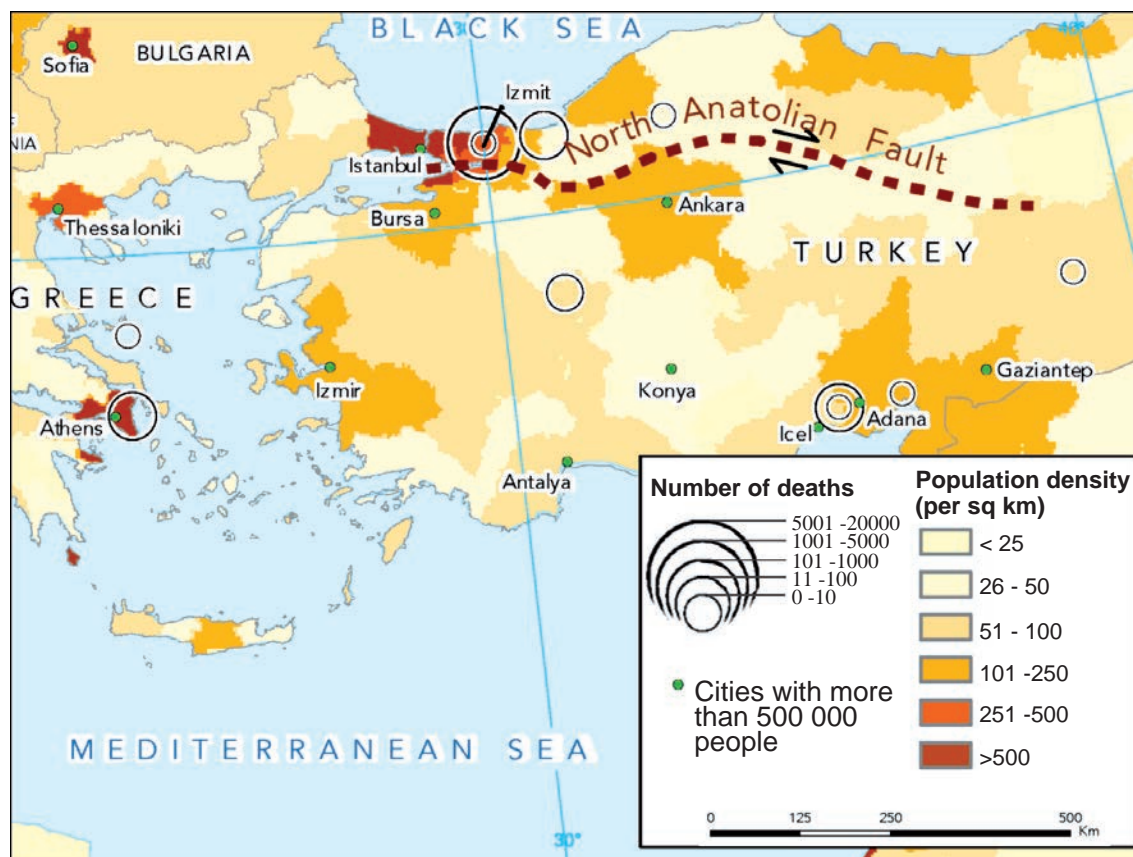
1. Figure 1: Duration of Winter Ice on Lake Mendota, Wisconsin, USA



Source: Wisconsin State Climatology Office

- (a) Use **Figure 1** to describe the patterns of ice duration on Lake Mendota. [5]
- (b) Explain how **one type** of extreme weather has had an impact on human activity. [10]
- (c) Outline strategies used to address climate change
- Either,** by governments
- Or,** by pressure groups and/or individuals. [10]

2. Figure 2: The impact of recent earthquakes in the eastern Mediterranean



Source: <http://dataservice.eea.europa.eu/atlas>

- (a) Outline the factors shown in **Figure 2** that may have influenced the number of deaths caused by recent earthquakes in the eastern Mediterranean. [5]
- (b) Explain the tectonic processes that occur at destructive plate margins. [10]
- (c) Explain why some groups of people perceive tectonic hazards negatively. [10]

3. **Figure 3: The number of commercial properties that may be affected by increasing severity of river flooding in Elgin, Scotland**

Type of commercial property	Return period of flood		
	1 in 5 year flood	1 in 25 year flood	1 in 100 year flood
Leisure	0	11	19
Retail	0	51	86
Distribution	0	18	27
Offices	0	2	13
Public	0	12	22
Manufacturing	10	36	51
Utilities	0	2	3
Total	10	132	221

**low impact
high frequency**
**high impact
low frequency**

Source: MFAG 2004a

- (a) Describe the predicted impact of the increasing severity of floods on commercial properties in Elgin shown in **Figure 3**. [7]
- (b) Describe **two** graphical techniques that could be used to represent the data in **Figure 3**. Justify your choices. [8]
- (c) Discuss the main conclusions of an investigation into a changing physical environment that you have undertaken. *You should state clearly the question that you have investigated.* [10]