



A LEVEL GEOGRAPHY

COMPONENT 2

**GLOBAL SYSTEMS AND
GLOBAL GOVERNANCE**

SAMPLE ASSESSMENT MATERIALS

2 hours



ADDITIONAL MATERIALS

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

INSTRUCTIONS TO CANDIDATES

Answer questions 1, 2 and, **either** 3 **or** 4 in Section A.

Answer questions 5, 6 and, **either** 7 **or** 8 in Section B.

Answer **one** question in Section C.

Use black ink or black ball-point pen.

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

The number of marks is given in brackets [] at the end of each question or part-question; you are advised to divide your time accordingly.

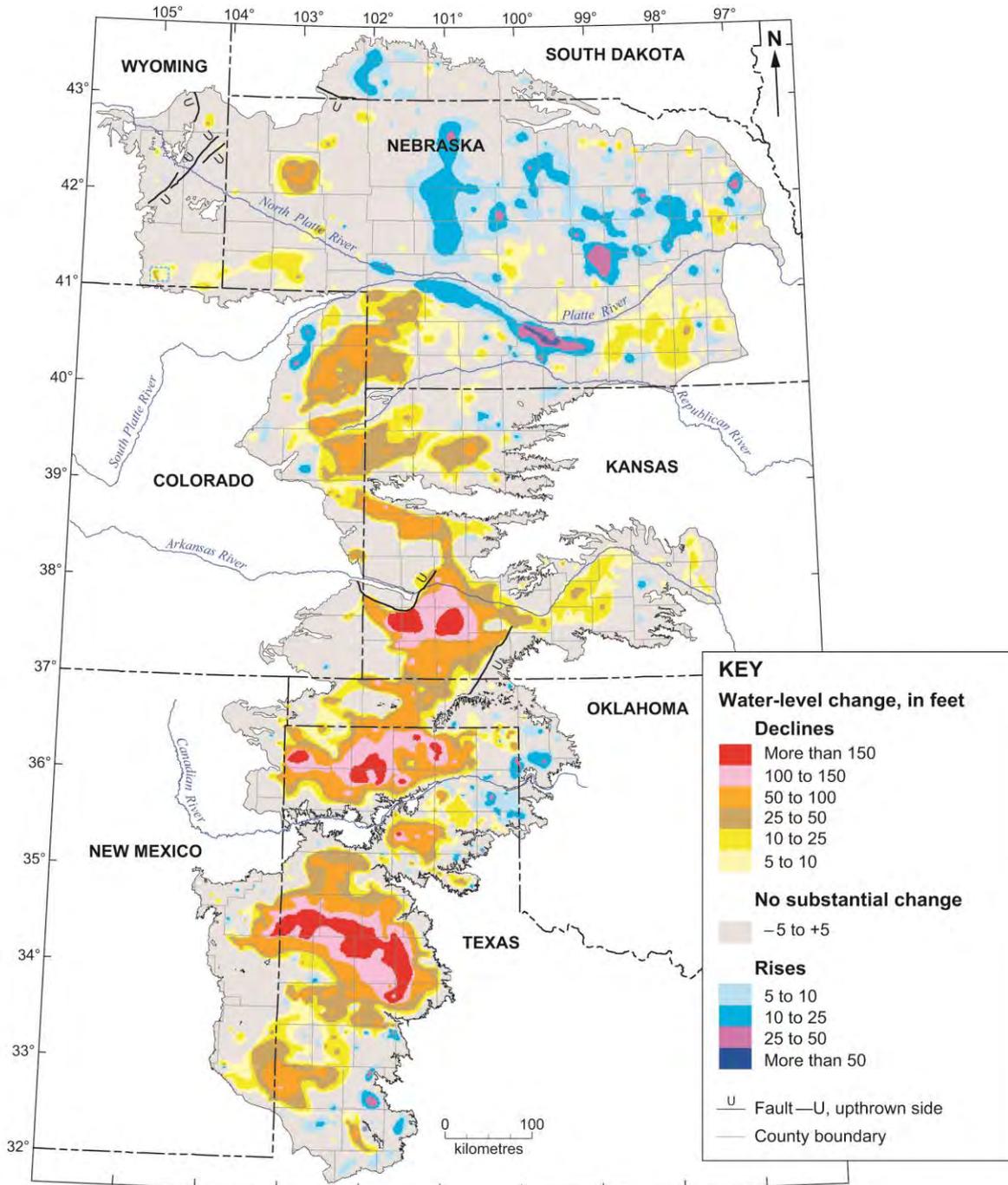
This paper requires that you make as full use as possible of appropriate examples and reference to data to support of your answers. Sketch maps and diagrams should be included where relevant.

Section A: Global Systems – Water and Carbon Cycles

Answer questions 1 and 2 **and**, either 3 or 4.

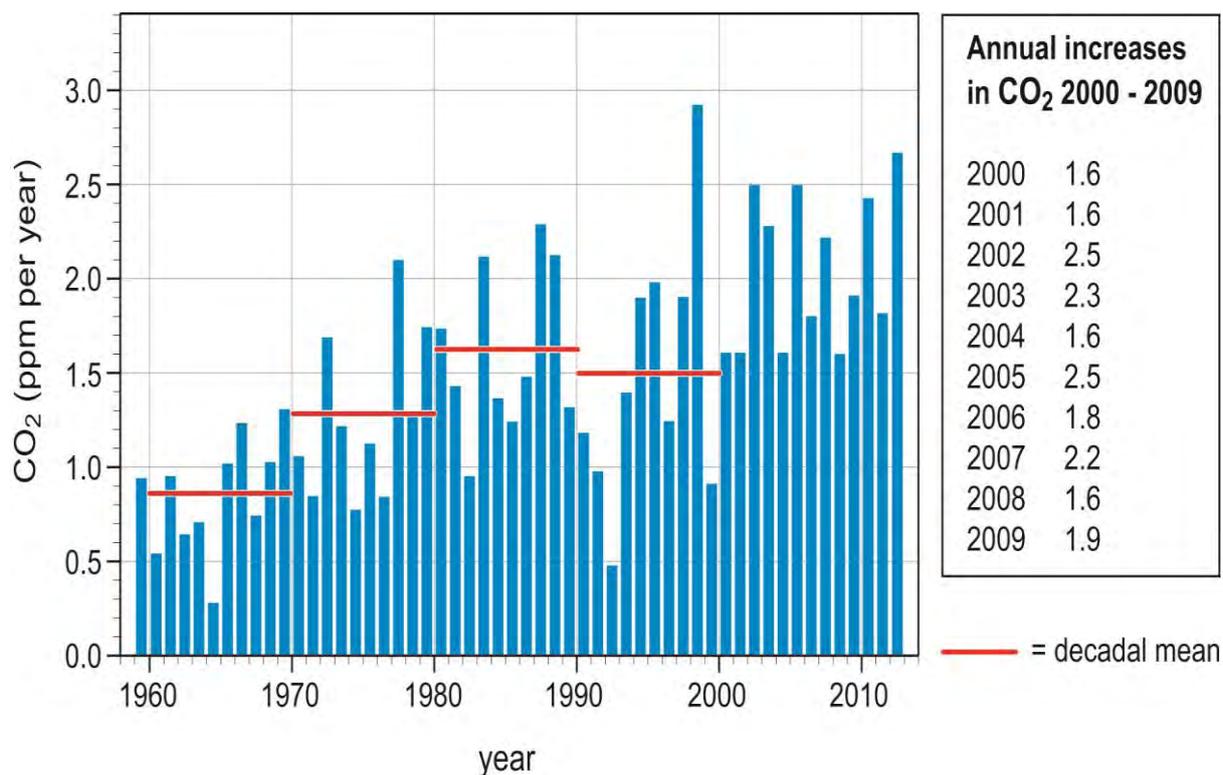
Where possible, make full use of examples and data in support of your answers.

Figure 1: Water level changes in the High Plains aquifer, USA.



Source: adapted from ne.water.usgs.gov

1. (a) Use **Figure 1** to assess the severity of water level decline in the High Plains aquifer. [5]
- (b) Suggest how human activities may result in falls in water levels in the High Plains aquifer. [5]

Figure 2: Annual increases in atmospheric CO₂ at Mauna Loa

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

2. (a) (i) Use **Figure 2** to calculate the decadal mean increase in CO₂ for 2000–2009. Show your workings. [2]
- (ii) Describe the trend of decadal mean values shown in **Figure 2**. [3]
- (b) Explain how natural processes give rise to short-term fluctuations in the size of the atmospheric CO₂ store. [5]

Either

3. Analyse the effects of forest removal on the operation of physical systems. Refer to both the water cycle and the carbon cycle in your answer. [20]

Within your answer to question 3, you are required to demonstrate your ability to develop a sustained line of reasoning which is coherent, relevant, substantiated and logically structured.

Or

4. To what extent do geological factors influence water and carbon cycle flows in different contexts. [20]

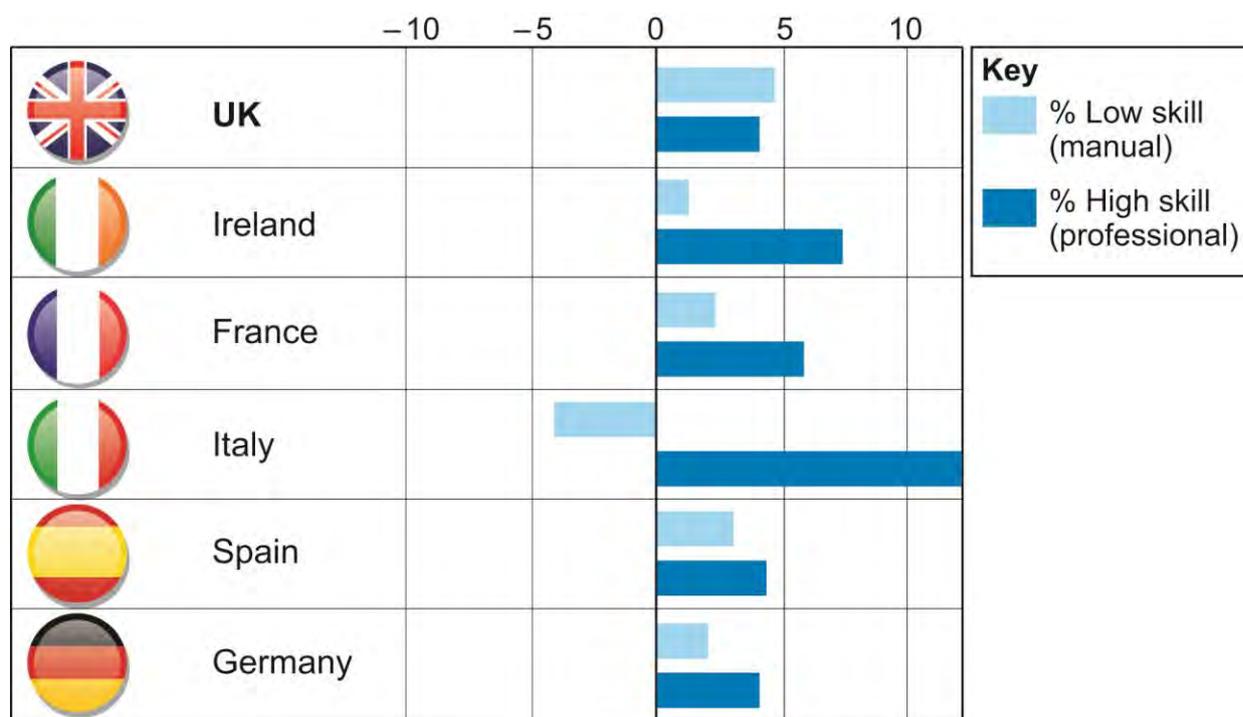
Within your answer to question 4, you are required to demonstrate your ability to develop a sustained line of reasoning which is coherent, relevant, substantiated and logically structured.

Section B – Global Governance: Change and Challenges

Answer questions 5 and 6, and either 7 or 8.

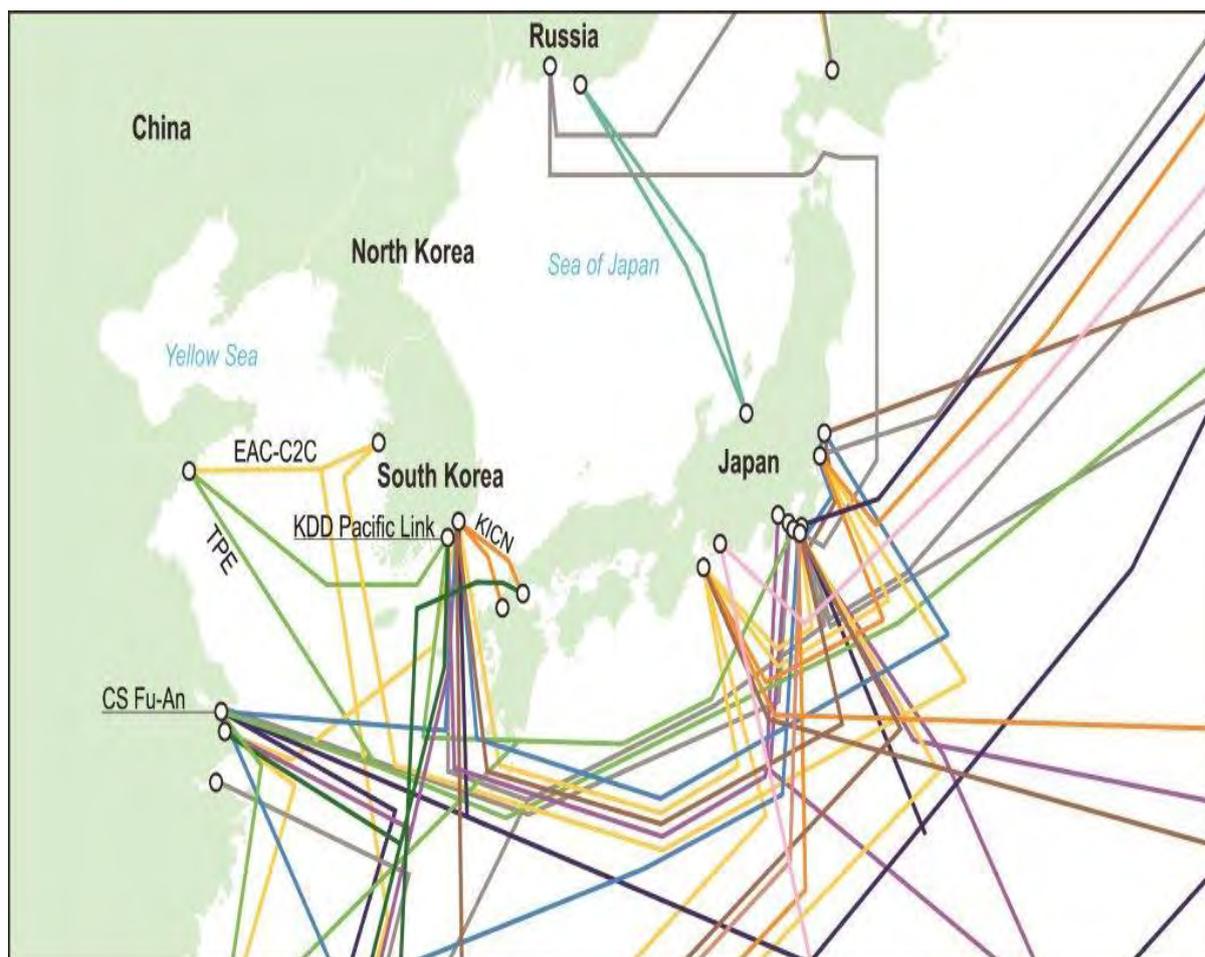
Make the fullest possible use of examples in support of your answers.

Figure 3: Low skill (manual) and high skill (professional) employment changes in selected EU countries (2000-2015)



Source: www.ft.com

- 5 (a) Use **Figure 3** to compare employment changes for the EU member states shown. Include relevant data in your answer. [5]
- (b) Analyse how the employment changes shown in **Figure 3** could have affected international migration. [5]

Figure 4: Undersea data cable networks in the Asia-Pacific region, 2014

Source: adapted from: www.submarinecablemap.com

6. (a) Use **Figure 4** to contrast the connectivity of Japan, North Korea and South Korea. [5]
- (b) Outline how human and physical factors influence the global distribution of seafloor cables. [5]

Either:

7. 'National governments have lost control of who and what is crossing their borders.' Discuss.

Refer to both migration management and ocean governance in your answer.

[20]

Within your answer to question 7, you are required to demonstrate your ability to develop a sustained line of reasoning which is coherent, relevant, substantiated and logically structured.

Or:

8. Assess the relative importance of strategies used by powerful countries to maintain global influence.

Refer to both migration management and ocean governance in your answer.

[20]

Within your answer to question 8, you are required to demonstrate your ability to develop a sustained line of reasoning which is coherent, relevant, substantiated and logically structured.

Section C – 21st Century Challenges (synoptic exercise)

Answer question 9 or question 10.

Either

9. Assess the severity of the different risks that cities increasingly face. [30]

Or

10. To what extent could the management of different risks lead to changes in the characteristics of urban places? [30]

In your answer to either question 9 or 10, you should use the maps in **Figures 5, 6, 7 and 8** and apply your knowledge and understanding from across the whole specification.

You should develop a sustained line of reasoning which is coherent, relevant, substantiated and logically structured.

Figure 5: Major cities and earthquake risk

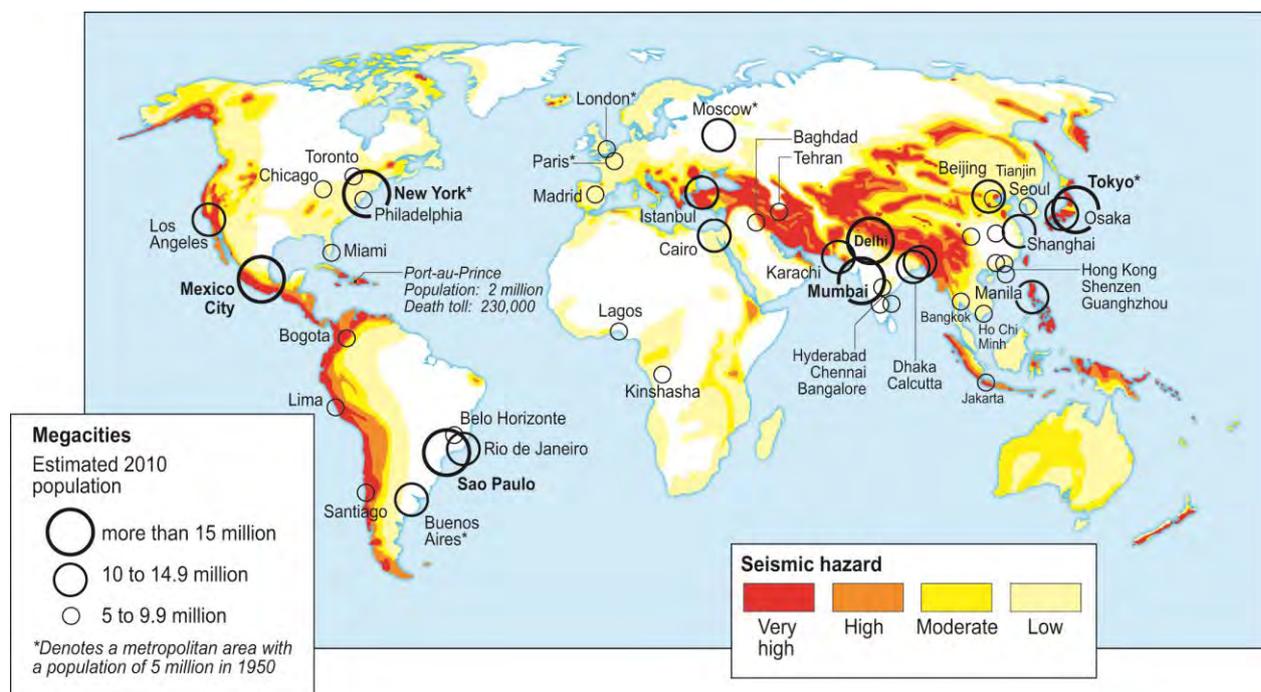


Figure 6: Tsunami warning zones

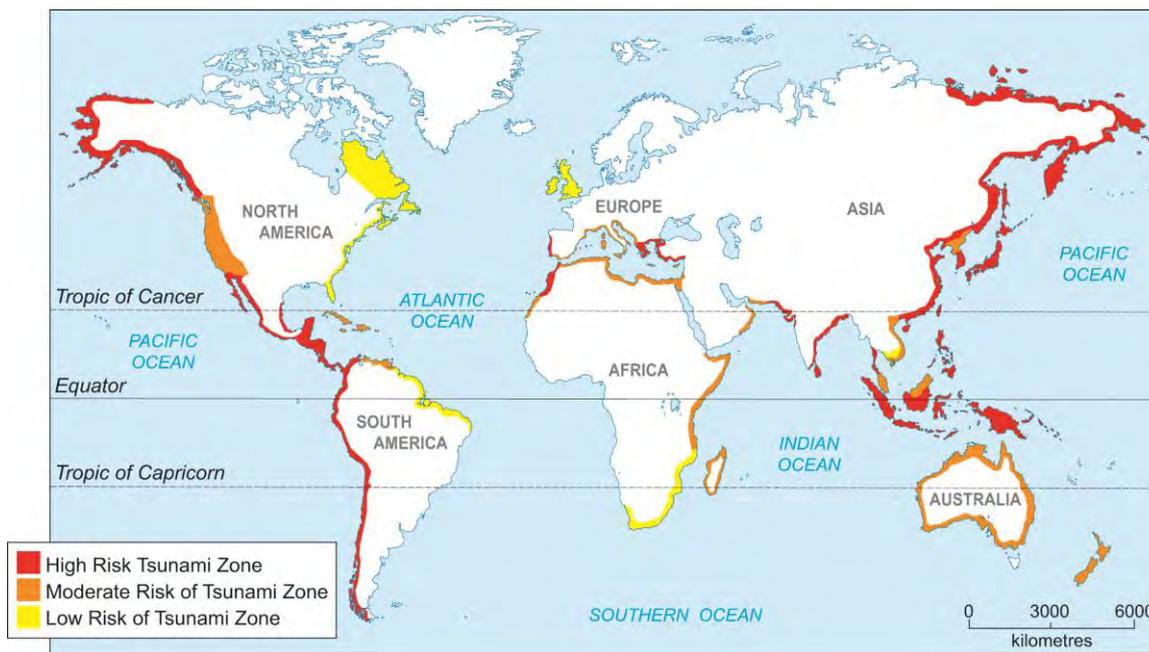
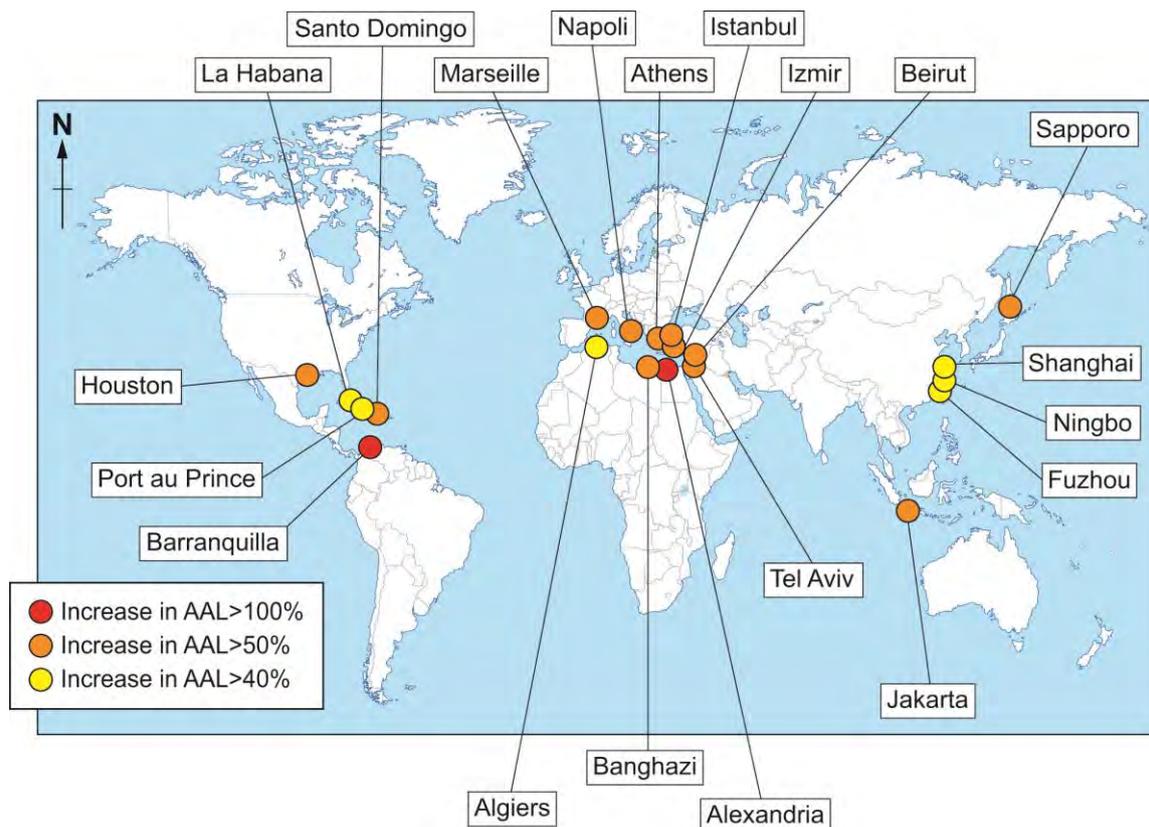
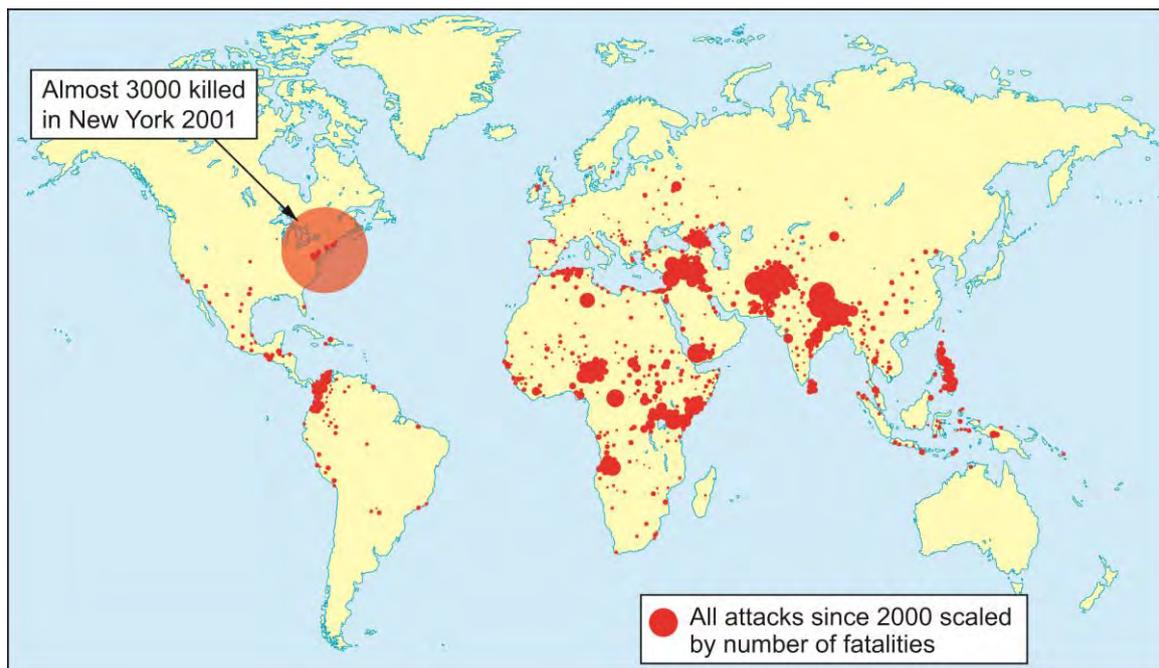


Figure 7: The 20 cities that face the biggest relative increase in average annual losses (AAL) due to sea-level rise by 2050



Source: adapted from: <http://www.washingtonpost.com>

Figure 8: Terrorist attacks worldwide 2000-2013



Source: adapted from: <http://c3.thejournal.ie/>