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**Edexcel GCE**

Centre Number

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Candidate Number

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# Geography

## Advanced Subsidiary

### Unit 1: Global Challenges

Tuesday 15 May 2018 – Afternoon  
**Time: 1 hour 30 minutes**

Paper Reference

**6GE01/01**

**You must have:**  
Resource Booklet (enclosed)

Total Marks

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **ALL** questions in Section A and **ONE** question in Section B.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*

### Information

- The total mark for this paper is 90.
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (\*) are ones where the quality of your written communication will be assessed  
– *you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.*

### Advice

- Read each question carefully before you start to answer it.
- Spend approximately one hour on Section A and 30 minutes on Section B.
- Check your answers if you have time at the end.

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**SECTION A**

**Answer ALL questions.**

**You must use the Resource Booklet.**

**You are advised to spend approximately one hour on Section A.**

**Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.**

**1** Study Figure 1.

(a) (i) For the data shown, identify the correct answer.

(1)

- A** Economic costs have decreased over time, and deaths have increased.
- B** Economic costs have risen over time, and numbers affected have decreased.
- C** Economic costs, deaths and numbers affected show no clear trend over time.
- D** Economic costs have increased over time, and deaths have decreased.

(ii) Suggest **two** reasons why the most powerful volcanic eruptions do not always cause the most deaths.

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(b) Explain why the numbers of people affected by tectonic disasters have increased over time.

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**(Total for Question 1 = 10 marks)**

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2 Study Figure 2.

(a) (i) Which **one** of the following statements is correct?

(1)

- A** Temperatures for all areas are predicted to be cooler in the future.
- B** Temperatures for all areas have risen by more than 2°C.
- C** Temperatures in Africa have increased more than anywhere else.
- D** Temperatures in the Arctic have increased more than anywhere else.

(ii) Suggest **one** way the changes shown may have affected water supply in Africa.

(2)

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(b) Describe adaptations that may be used in developing countries to help reduce the effects of

(4)

drought

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flooding

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(c) Explain how global warming may disrupt economic activity for people in the African continent.

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**(Total for Question 2 = 12 marks)**

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**3** Study Figure 3.

(a) Complete the table below by adding **one** further example to each column.

(2)

Plants more common 10,000 years ago than 1,000 years ago	Plants more common 1,000 years ago than 10,000 years ago
Birch trees	Flowering plants

(b) Describe how historical sources of evidence about climate change are often unreliable and incomplete.

(4)

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(c) Explain why human activity has increased levels of **one** named greenhouse gas.

(4)

Greenhouse gas: .....

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**(Total for Question 3 = 10 marks)**

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4 (a) State **two** characteristics of a Less Developed Country (LDC).

(2)

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(b) Study Figure 4.

Indonesia, a country in Asia, is now a rapidly developing NIC.

(i) Complete the table below.

(2)

Year	Percentage (%) employed in agriculture	Percentage (%) employed in manufacturing and services
1980	64	36
	50	50
2010		62

(ii) Suggest reasons for the changes in employment shown.

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(c) Explain the strategies used by TNCs to expand their businesses.

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**(Total for Question 4 = 12 marks)**



**5** Study Figure 5.

(a) (i) Name the megacity predicted to experience the largest population growth between 2001 and 2025.

(1)

(ii) Suggest why megacities such as these are predicted to grow so rapidly.

(4)

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6 Study Figure 6.

(a) (i) Identify **two** local actions shown that have attempted to reduce the environmental costs of globalisation.

(2)

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(ii) Explain the limitations of some local actions, such as those shown, designed to reduce the impacts of globalisation.

(4)

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(b) Explain why agreement on global scale approaches to reduce environmental damage is difficult to achieve.

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**(Total for Question 6 = 11 marks)**

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**TOTAL FOR SECTION A = 65 MARKS**

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## SECTION B

Answer ONE question in this section.

Use the evidence provided in the Resource Booklet and your own ideas.

You are advised to spend approximately 30 minutes on Section B.

\*7 Study Figure 7.

(a) Explain how the factors shown may influence disaster risk in the Philippines. (10)

(b) Explain why both the magnitude and frequency of hydro-meteorological hazards are likely to increase in the future. (15)

(Total for Question 7 = 25 marks)

\*8 Study Figure 8.

(a) Explain how the 2015-2016 El Niño event led to the changes shown in Figure 8. (10)

(b) Examine why the impacts of sea-level rise will be worse in some places compared to others. (15)

(Total for Question 8 = 25 marks)

\*9 Study Figure 9.

(a) Suggest reasons for the patterns of Facebook connectivity shown. (10)

(b) Examine the socio-economic costs and benefits of globalisation for different countries. (15)

(Total for Question 9 = 25 marks)

\*10 Study Figure 10.

(a) Suggest political and economic reasons for the pattern of migration shown. (10)

(b) Examine the costs and benefits of retirement flows to Mediterranean locations for host and source countries. (15)

(Total for Question 10 = 25 marks)

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Indicate which question you are answering by marking a cross . If you change your mind, put a line through the box  and then indicate your new question with a cross .

Chosen question number: **Question 7**       **Question 8**   
**Question 9**       **Question 10**

Area with horizontal dotted lines for writing answers.



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**TOTAL FOR SECTION B = 25 MARKS**  
**TOTAL FOR PAPER = 90 MARKS**



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# **Geography**

**Advanced Subsidiary**

**Unit 1: Global Challenges**

Tuesday 15 May 2018 – Afternoon

**Resource Booklet**

Paper Reference

**6GE01/01**

**Do not return this Resource Booklet with the question paper.**

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	<b>Eruption date</b>	<b>Volcanic Explosivity Index (0 = lowest, 8 = highest)</b>	<b>Deaths</b>	<b>Numbers affected</b>	<b>Economic cost US\$ millions</b>
<b>Mount Pelée, Martinique</b>	1902	4	33,000	33,000	Unknown
<b>Novarupta, Alaska</b>	1912	6	0	10,000-20,000	Unknown
<b>Nevado del Ruiz, Colombia</b>	1985	3	23,000	At least 100,000	1,000
<b>Eyjafjallajökull, Iceland</b>	2010	4	0	At least 5 million	4,700
<b>Sinabung, Indonesia</b>	Ongoing since 2010	2	16	About 20,000	About 100

(Source: © Statista.com)

**Figure 1**  
**Data for selected volcanic eruptions**



10,000 years ago

1,000 years ago

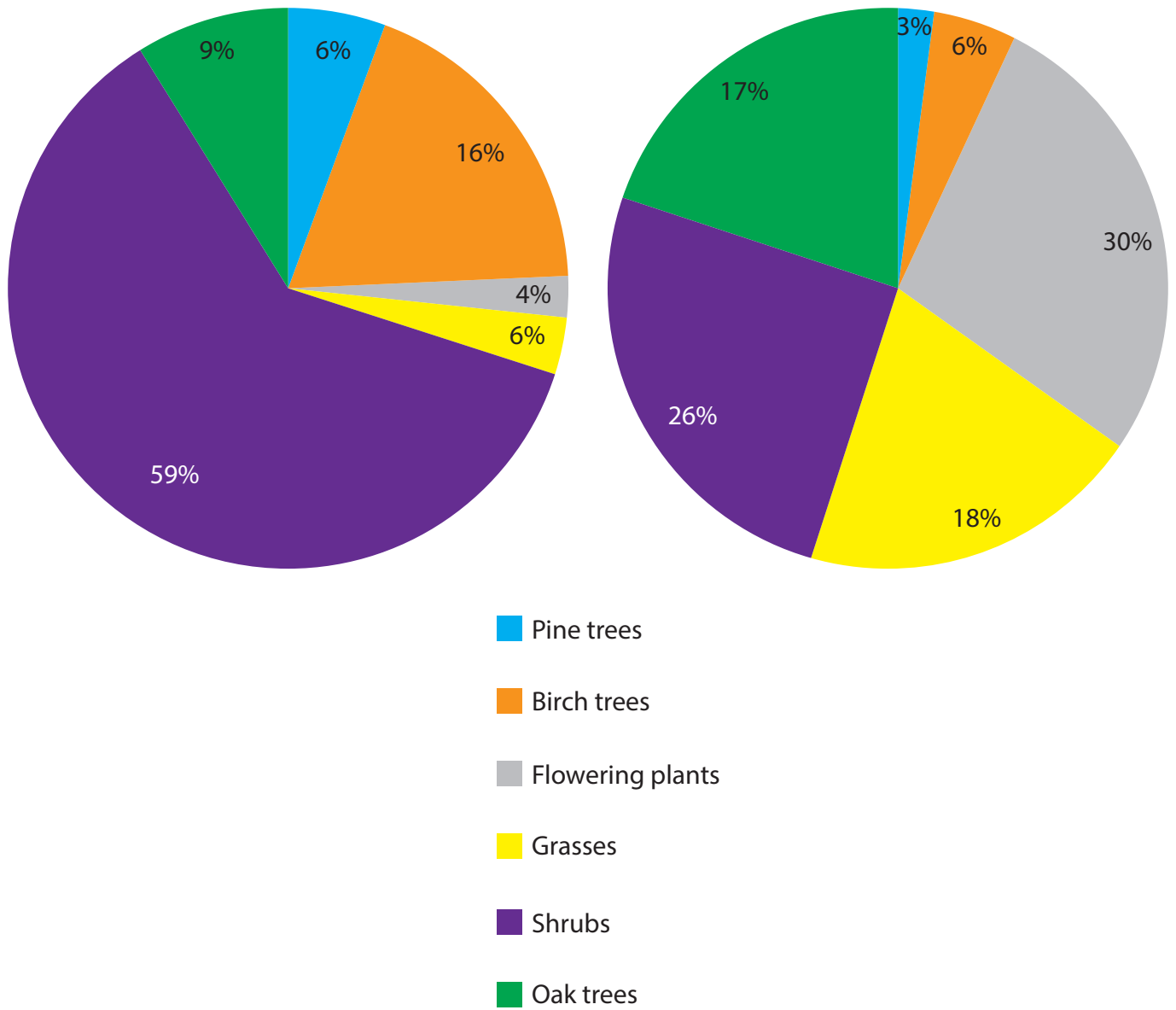
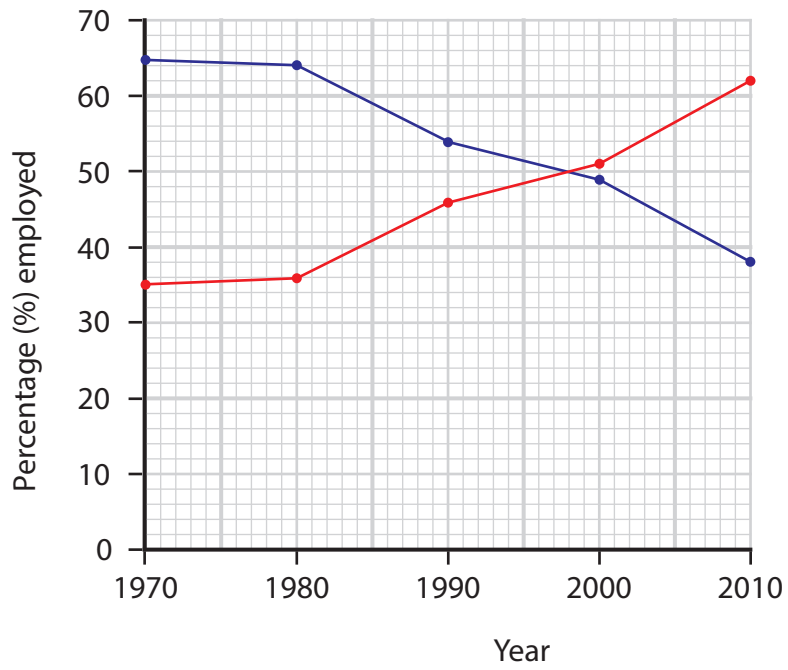


Figure 3

Plants found in Norfolk, UK, 10,000 and 1,000 years ago using data from pollen analysis





- Percentage (%) employed in agriculture
- Percentage (%) employed in manufacturing and services

**Figure 4**

**Change in employment structure in Indonesia from 1970 to 2010**

<b>Megacity</b>	<b>Population in 2001 (millions)</b>	<b>Predicted population by 2025 (millions)</b>
<b>Beijing (China)</b>	16	23
<b>Dhaka (Bangladesh)</b>	15	23
<b>Mumbai (India)</b>	20	27
<b>New Delhi (India)</b>	23	33
<b>Shanghai (China)</b>	20	28

**Figure 5**

**Population change in five megacities in 2001 and predicted to 2025**

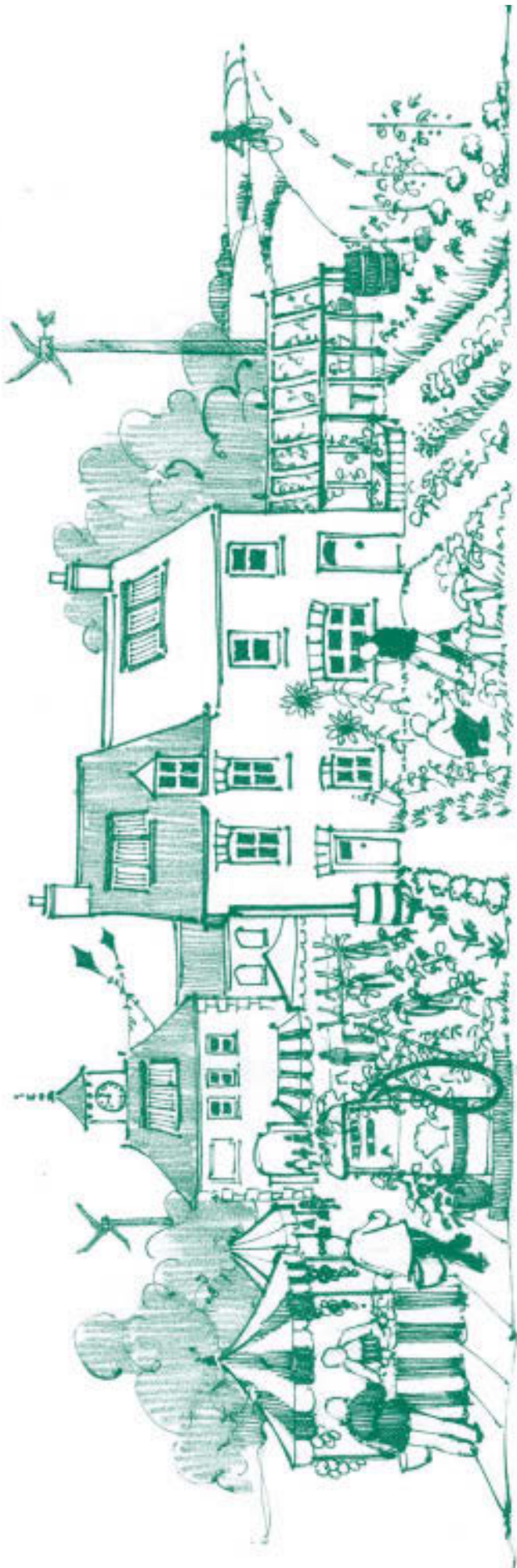
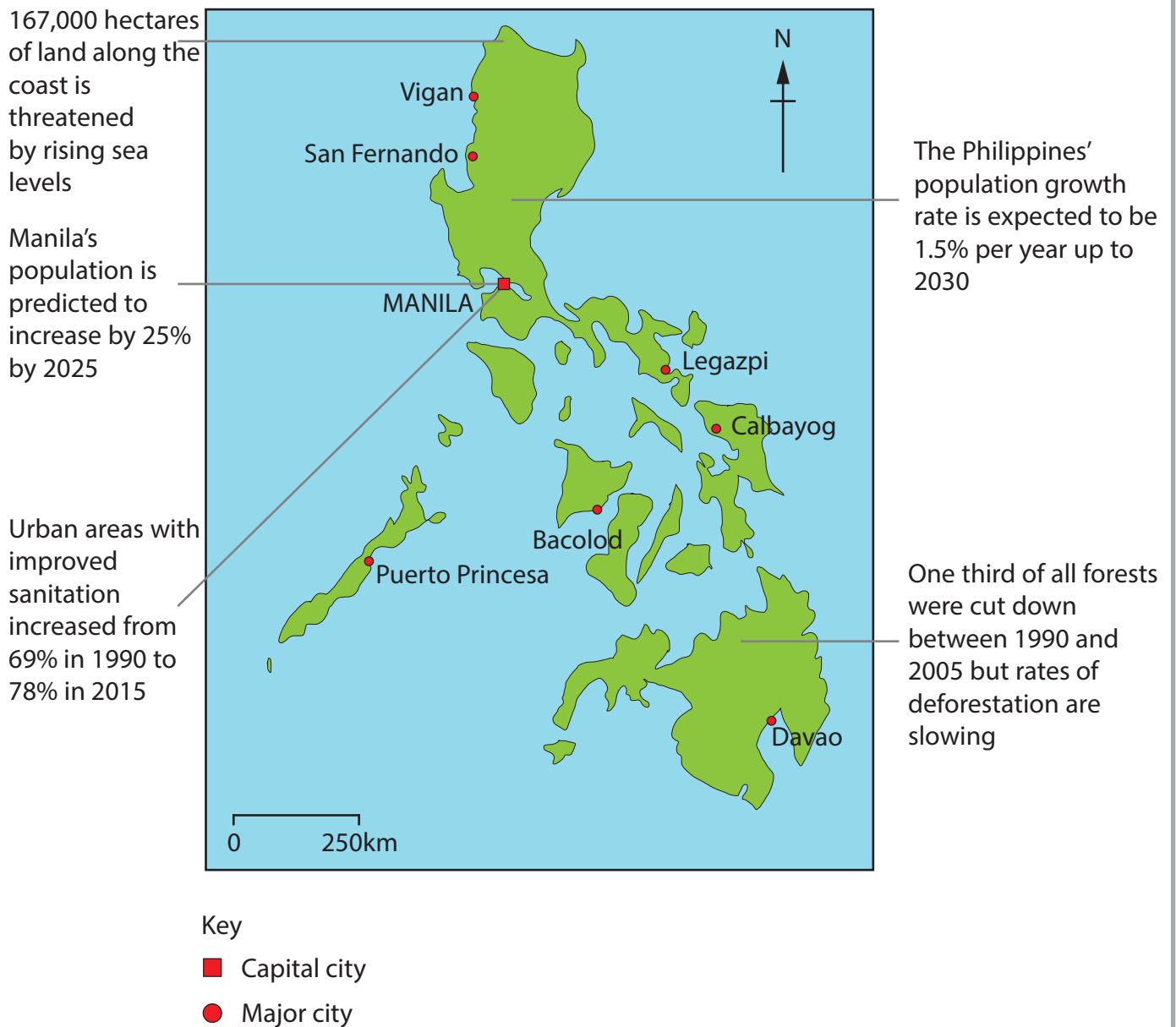


Figure 6

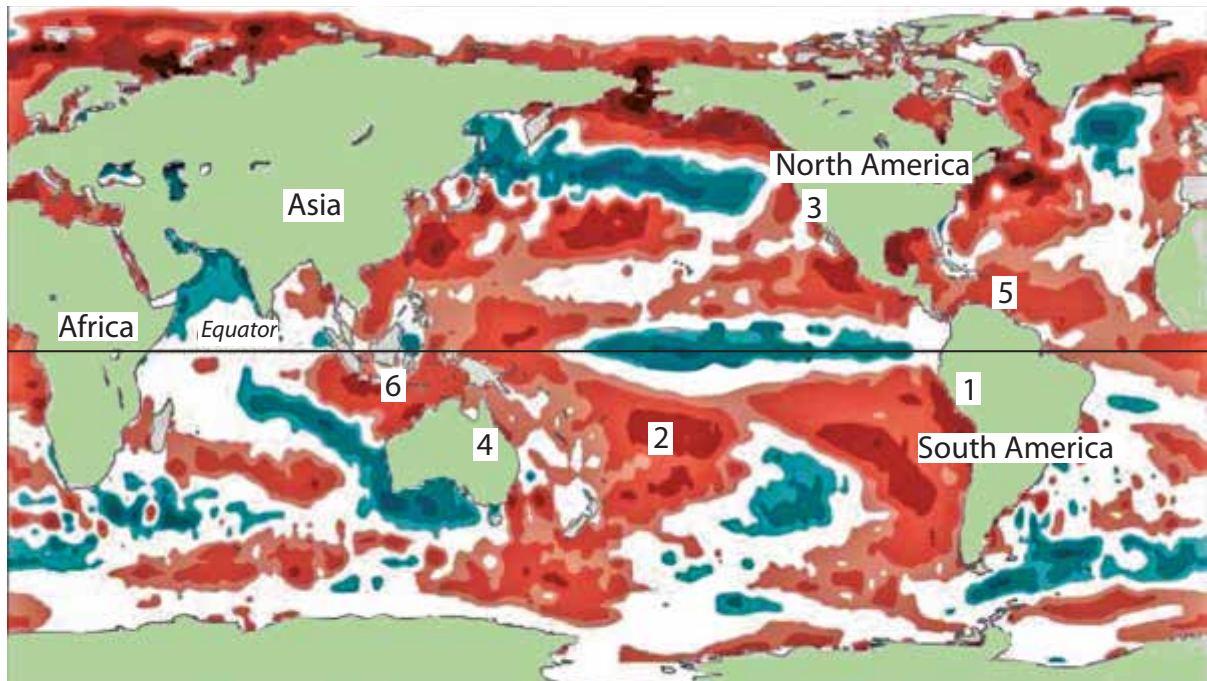
Local strategies that have reduced the environmental costs of globalisation



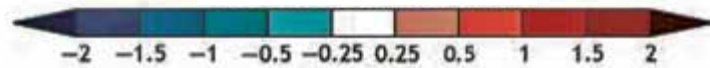
**Figure 7**

**Disaster risk factors in the Philippines**

1. Extreme rain and floods occurred in Peru	2. Drought affected 4.7 million people on the Pacific Islands of Fiji and Samoa
3. Northern California had 130 – 150% of normal rainfall	4. Dry conditions led to an extreme bushfire season in eastern Australia
5. The Atlantic basin had fewer hurricanes than usual	6. 85% of Indonesia experienced drought and forest fires



Ocean temperature difference from the average (°C)



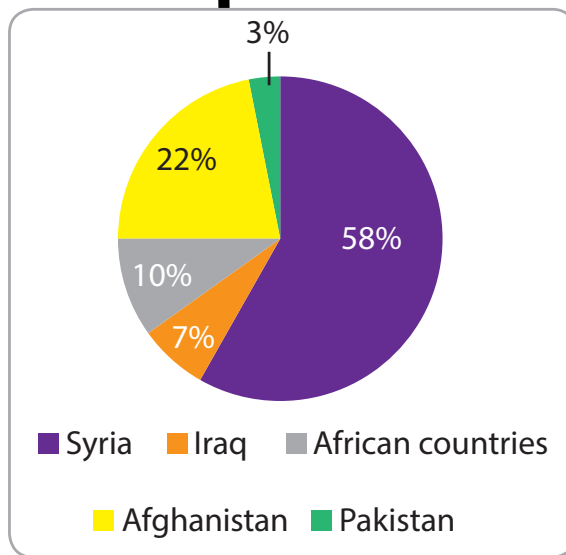
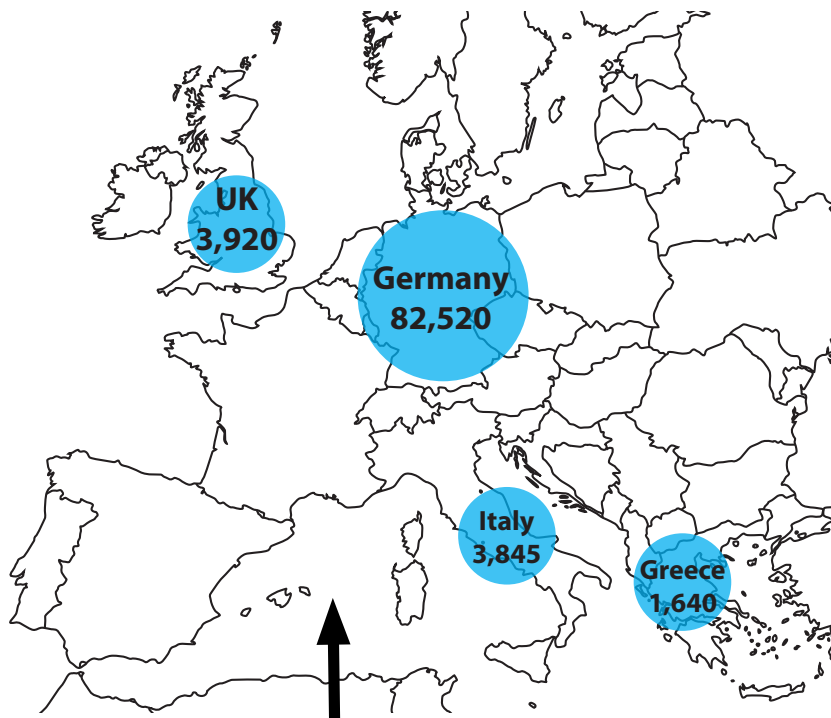
Numbers 1-6 refer to the points above the map

**Figure 8**

**Changes caused by the 2015-2016 El Niño event**



**Figure 9**  
**A map of the global Facebook community**



Countries of origin

Key

● Destination countries for migrants

**Figure 10**

**The origins and destinations of selected migrants to Europe in 2015**



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Figure 4 – <https://www.adb.org/sites/default/files/publication/28016/strategic-vision-indonesia.pdf>

Figure 6 – <http://transitionsaltlake.org/blog/welcome/>

Figure 8 – NOAA Climate.gov – Data: CPS – <https://www.climate.gov/news-features/blogs/enso/january-2017-enso-update-happy-new-year>

Figure 9 – <http://blogs.discovermagazine.com/discoblog/2010/12/14/map-of-facebook-friend-connections-lights-up-the-world/#.WLPjzG-LSUI>

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