

Surname					Other Names				
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General Certificate of Secondary Education
June 2006



GEOGRAPHY (SPECIFICATION A)
Paper 1
Foundation Tier

3031/1F

Monday 5 June 2006 9.00 am to 10.45 am

F

For this paper you must have:

- the two Ordnance Survey map extracts (enclosed);
- the insert (enclosed)

You may use a calculator.

← See last page of this document.

Time allowed: 1 hour 45 minutes

Instructions

- Use blue or black ink or ball-point pen. You may use pencil for maps, diagrams and graphs.
- Fill in the boxes at the top of this page.

SECTION A – Skills
Answer **ALL** questions.

SECTION B – People and the Natural Environment
Answer **THREE** questions only.

- Do all rough work in this book. Cross through any work you do not want marked.
- If you need extra paper, use the Supplementary Answer Sheets.

Information

- The maximum mark for this paper is 70.
- The marks for questions are shown in brackets.
- You will be assessed on your ability to:
 - present relevant information in a form and style that suits its purpose;
 - ensure that text is legible and that spelling, punctuation and grammar are accurate;
 - use specialist vocabulary where appropriate.
- LEDC is a Less Economically Developed Country.
- MEDC is a More Economically Developed Country.

For Examiner's Use			
Number	Mark	Number	Mark
1		9	
2		10	
3			
4			
5			
6			
7			
8			
Total (Column 1)		→	
Total (Column 2)		→	
TOTAL			
Examiner's Initials			

SECTION AAnswer **ALL** questions in Section A.**1****Total for this question: 11 marks**Study **Figure 1**, the Ordnance Survey map extract of Ross-on-Wye.

- (a) Name the largest settlement in grid square 6026.

.....
(1 mark)

- (b) Name the symbol at grid reference 596250.

.....
(1 mark)

- (c) Give the length of the motorway shown on the map.

.....
(2 marks)

- (d) Give the direction from the roundabout in grid square 6025 to the roundabout in grid square 5824.

.....
(1 mark)

- (e) Tick the correct box for each of the following statements to show whether it is
- true**
- or
- false**
- .

	True	False
There are three road bridges across the river at Ross-on-Wye.	<input type="checkbox"/>	<input type="checkbox"/>
The motorway is located in grid square 6125.	<input type="checkbox"/>	<input type="checkbox"/>
Several secondary roads meet in grid square 5924.	<input type="checkbox"/>	<input type="checkbox"/>

(3 marks)

(f) Describe the land use in grid square 6022.

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(3 marks)

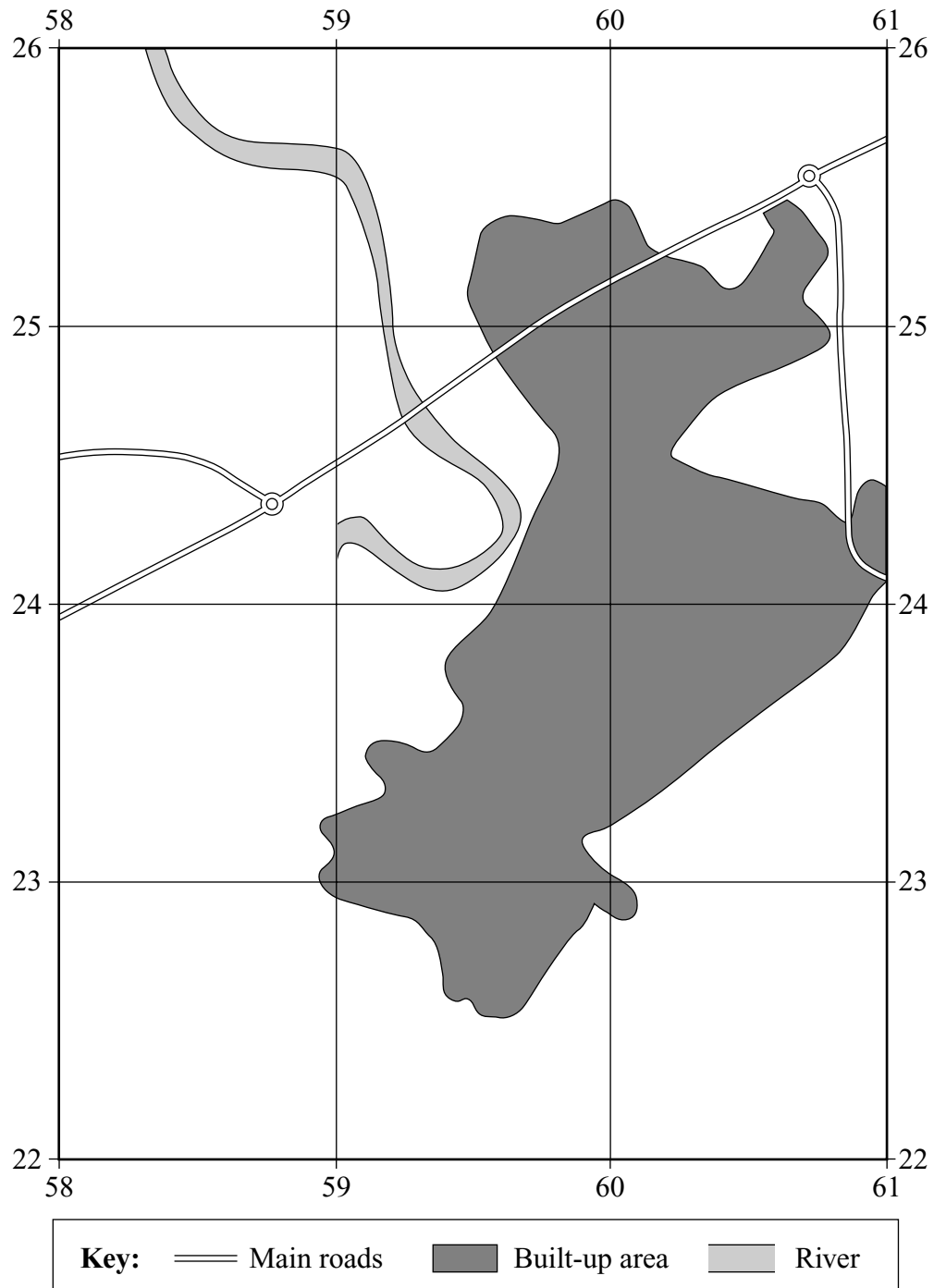
11

Turn over for the next question

2

Total for this question: 7 marks

Study **Figure 2**, a sketch map of Ross-on-Wye.
It is drawn at the same scale as **Figure 1**, the Ordnance Survey map extract.

Figure 2

(a) Using **Figure 1**, the Ordnance Survey map extract, complete the following on **Figure 2**:

Label the A40(T).

Mark and name **one** tourist attraction.

Complete and label the drawing of the course of the River Wye.

(5 marks)

(b) Give **two** reasons for the shape of the built-up area of Ross-on-Wye.

1

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2

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(2 marks)

7

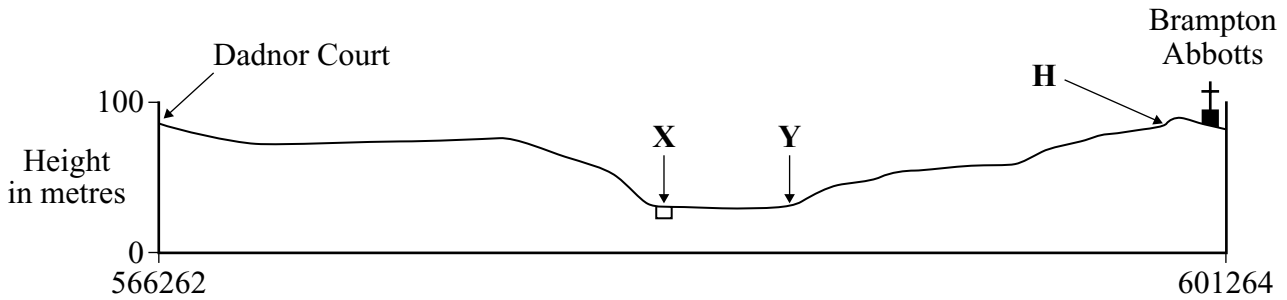
Turn over for the next question

3

Total for this question: 7 marks

Study **Figure 3**, a cross-section from 566262 to 601264 on **Figure 1**, the Ordnance Survey map extract.

Figure 3



(a) Name the features at **X** and **Y**.

X

Y

(2 marks)

(b) Name the map symbol used to show the height of the land at **H**.

.....
(1 mark)

(c) Describe the relief (height and shape of the land) shown on the cross-section in **Figure 3**.

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(4 marks)

End of Section A

Turn over for Section B

SECTION B

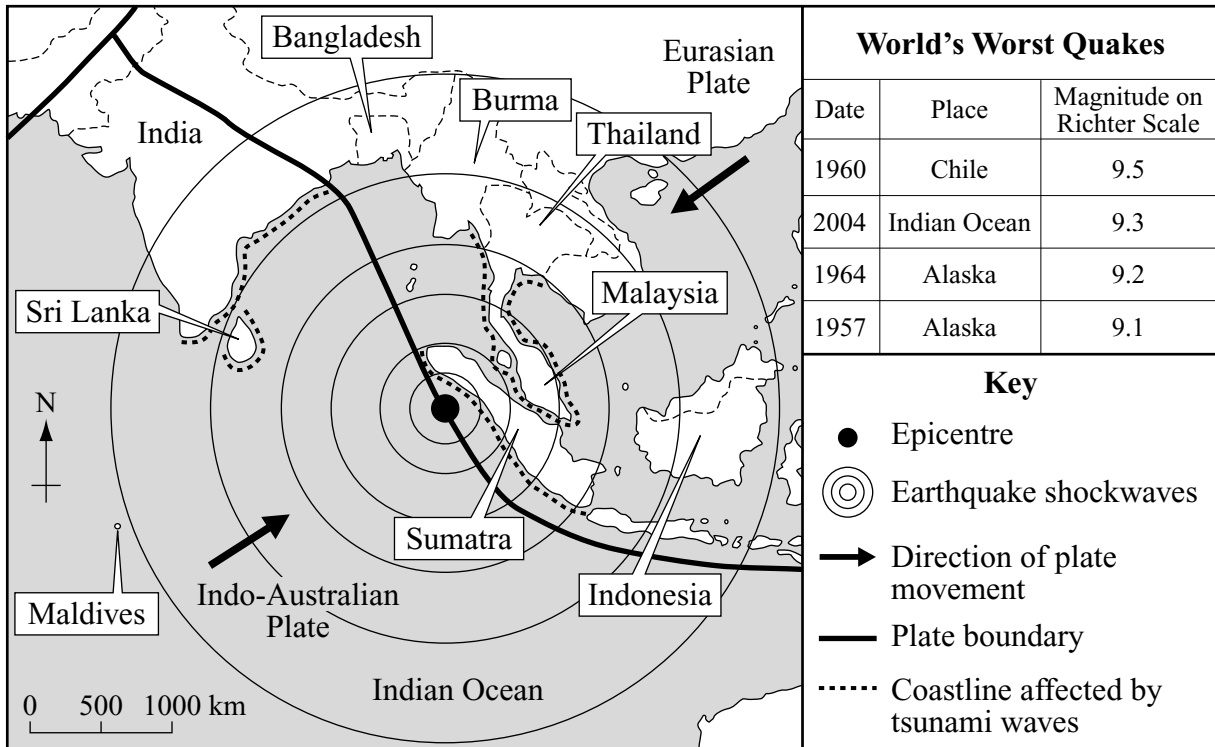
Answer **THREE** questions only in Section B.

4 Tectonic Activity

Total for this question: 15 marks

- (a) Study **Figure 4**, which shows information about the earthquake in the Indian Ocean on 26 December 2004.

Figure 4



- (i) What did the earthquake measure on the Richter Scale?

.....
(1 mark)

- (ii) Off the coast of which island was the epicentre of the earthquake?

.....
(1 mark)

- (iii) What caused the loss of life in the affected countries?

.....
(1 mark)

- (iv) Using **Figure 4**, complete the sentences below to explain why there was an earthquake.

There is a plate boundary in the Ocean. Here the plates are moving The plates are called the Indo-Australian plate and the plate. The plates suddenly moved, causing the earthquake.

(3 marks)

- (v) Suggest why the loss of life was so great in Sumatra, part of an LEDC.

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(4 marks)

Question 4 continues on the next page

(b) Study **Figure 5**, which shows the area around Mount Vesuvius, a volcano in Italy.

Sketch Map of Mount Vesuvius, Italy - not reproduced here due to third-party copyright constraints.

(i) Using **Figure 5**, explain why it is an advantage to live near to Mount Vesuvius.

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(3 marks)

(ii) Describe the disadvantages of living near to volcanoes such as Vesuvius.

.....

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(2 marks)

15

Turn over for the next question

5 Rocks and Landscapes**Total for this question: 15 marks**

- (a) Study **Figure 6**, which shows an area of Carboniferous Limestone.

Cross section of an area of carboniferous limestone
- not reproduced here due to third-party copyright
constraints.

- (i) On **Figure 6**, mark with an arrow and label the following:

a limestone pavement
a stalactite

(2 marks)

- (ii) Complete the sentences below to explain how a pothole (or swallow hole) is formed.

Choose the correct words from this list.

solution	rivers	acid	alkali
joints	dissolves	suspension	melts

In limestone areas the blocks of rock are separated by many

.....

Rainwater is weak carbonic and it

..... the calcium carbonate, making the cracks wider.

This process is called and it causes potholes and caverns to form.

(4 marks)

(b) Study **Figure 7**, the Ordnance Survey map extract of part of Dartmoor.

(i) Name the reservoir shown in **Figure 7**.

.....
(1 mark)

(ii) Granite is the main rock type in Dartmoor. What type of rock is granite?
Tick **one** box only.

Igneous

Metamorphic

Sedimentary

(1 mark)

(iii) Describe the physical features of Sheeps Tor shown in grid square 5668 in **Figure 7**.

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(3 marks)

Question 5 continues on the next page

(iv) Describe the land use shown in **Figure 7**.

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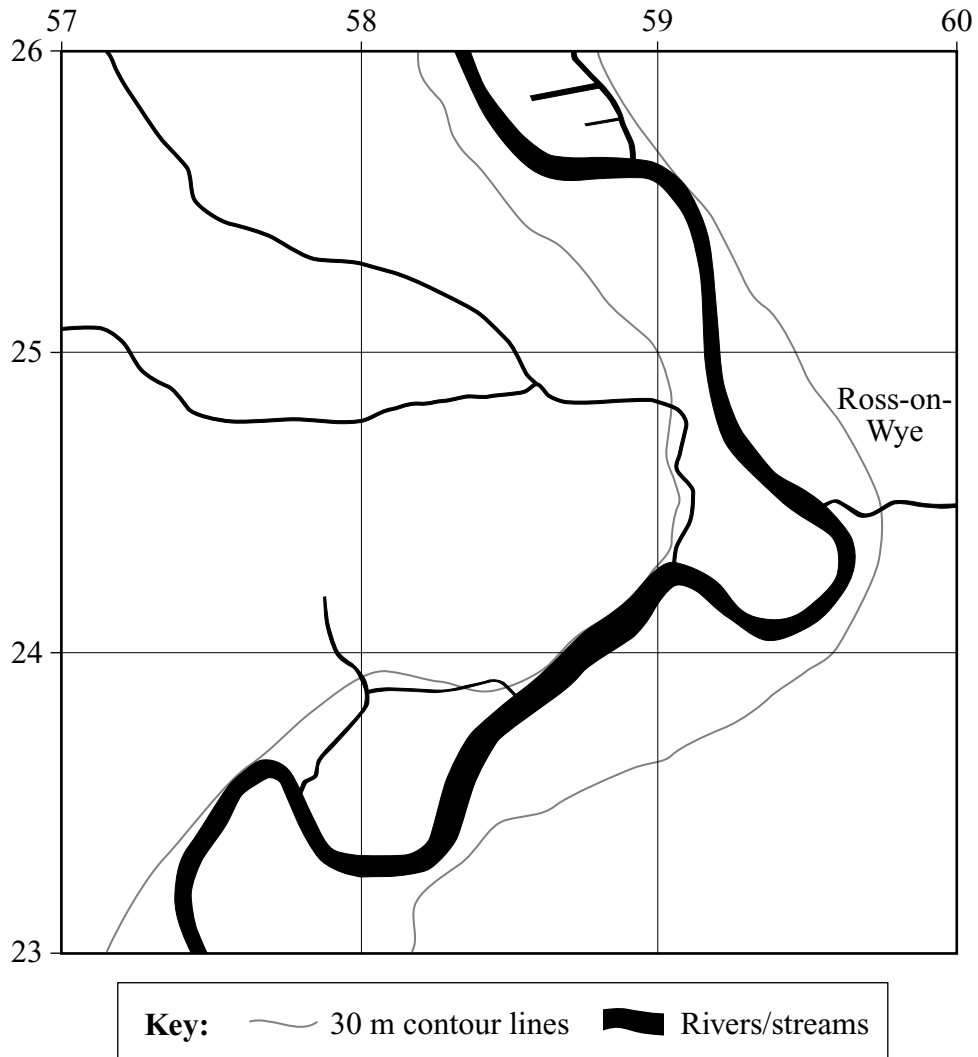
.....

(4 marks)

15

6 River Landscapes and Processes**Total for this question: 15 marks**

- (a) **Figure 8** is a sketch-map of part of the area shown in **Figure 1**, the Ordnance Survey map extract of Ross-on-Wye.

Figure 8

- (i) On **Figure 8**, mark with an arrow and label the following:

meander
tributary
flood plain

(3 marks)

Question 6 continues on the next page

(ii) What is a levée?

.....
.....

(1 mark)

(iii) Complete the sentences below to explain how a flood plain is formed.
Choose the correct words from this list.

- | | | | |
|------------------|------------------|----------------|----------------|
| migrate | corrasion | outside | flows |
| attrition | inside | floods | retreat |

Hydraulic power and erode the
..... bend of a meander. The meanders also
..... downstream. When the river
..... , silt and sand are deposited which build
up the flood plain.

(4 marks)

(b) Study **Figure 9**, on the insert, a map showing what might happen if the River Wye flooded.

(i) Describe the likely effects of flooding on the area shown in **Figure 9**.

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(4 marks)

(ii) Describe how the area could be protected from future flooding.

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(3 marks)

15

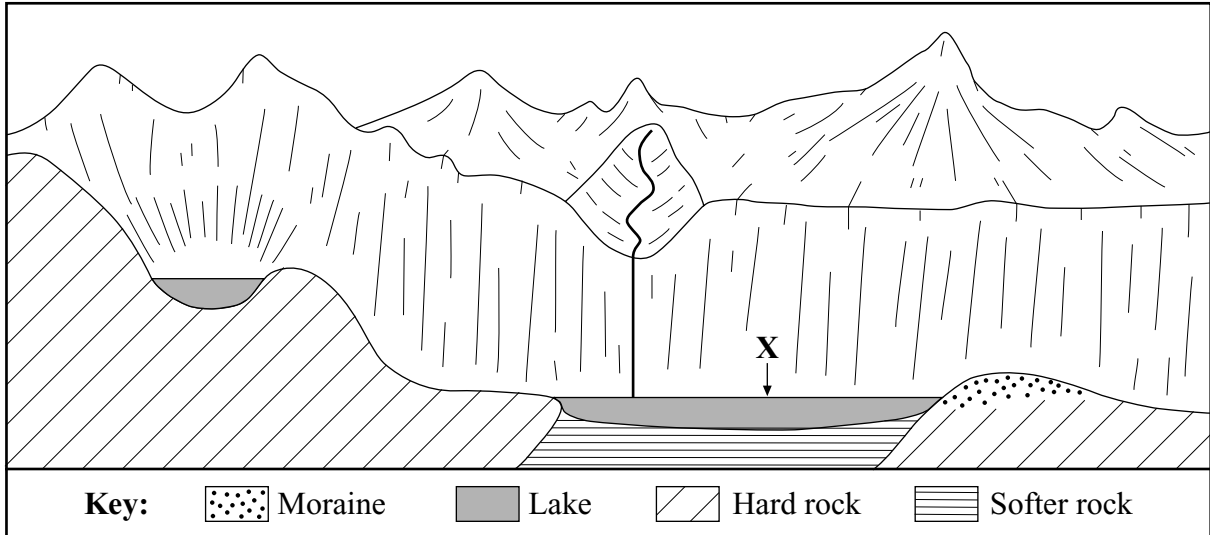
Turn over for the next question

7 Glacial Landscapes and Processes

Total for this question: 15 marks

(a) Study **Figure 10**, a section through an upland glaciated landscape.

Figure 10



(i) On **Figure 10**, mark with an arrow and label the following:

- a corrie**
- a hanging valley**

(2 marks)

(ii) Describe the shape of a corrie.

.....

.....

.....

.....

(2 marks)

- (iii) Feature **X** is a ribbon lake.
Complete the sentences below to explain the formation of a ribbon lake.
Choose the correct words from this list.

more **freezes** **melts** **freeze-thaw**

plucking **less** **scree** **moraine**

As a glacier flows along a valley it passes over bands of hard and soft rock.

The glacier erodes the rocks by abrasion and

The softer rocks are eroded quickly to a greater depth. This forms a hollow. At the end of the glacier

..... is deposited which blocks the valley. After the

glacier the hollow is filled with water to form a

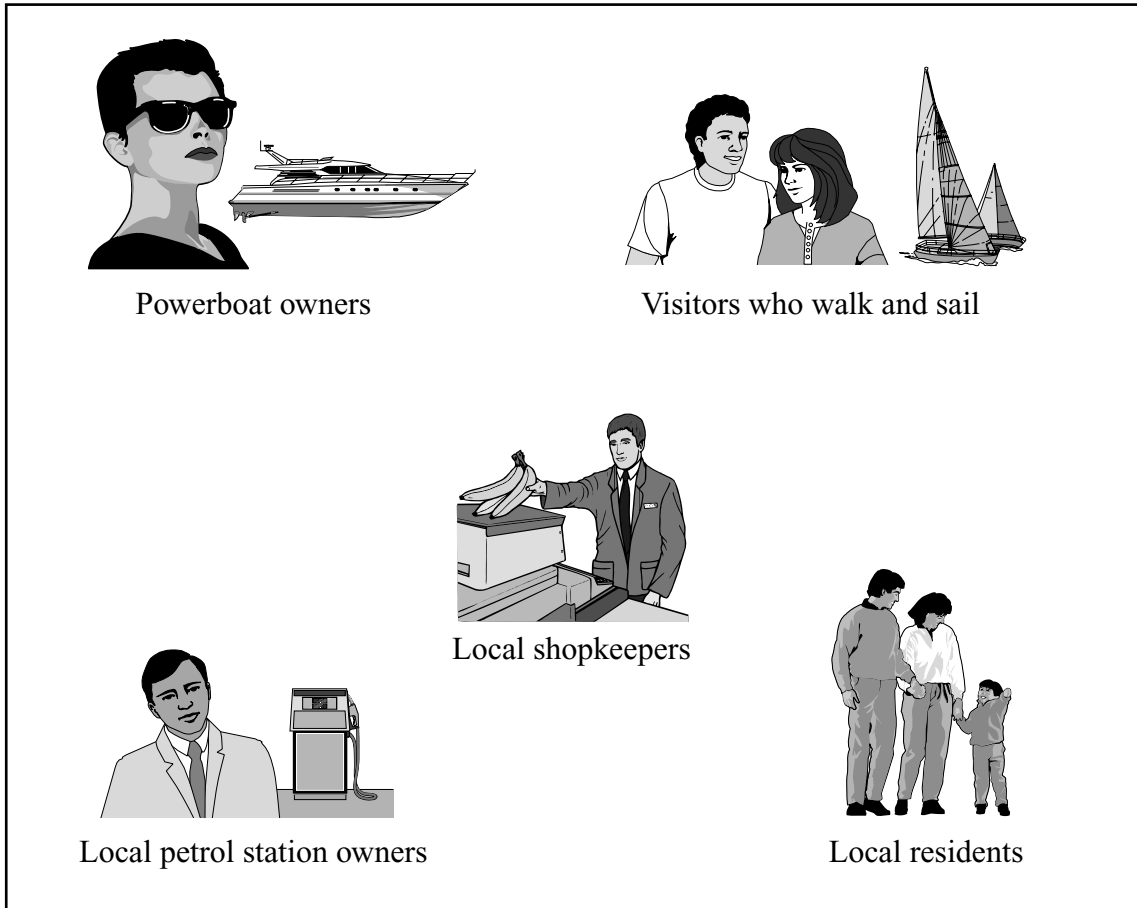
ribbon lake, e.g. Lake Windermere.

(4 marks)

Question 7 continues on the next page

- (b) Since 2005 many powerboats have stopped using Lake Windermere because of a new 10 mph speed limit. **Figure 11** shows some people who have opinions about this speed limit.

Figure 11



- (i) Using **Figure 11**, choose **one** group of people that is against the speed limit on Lake Windermere and say why.

Name of group

.....

.....

.....

.....

(2 marks)

- (ii) Using **Figure 11**, give **one** group of people that is in favour of the speed limit.

.....

(1 mark)

(iii) Suggest why some people are in favour of the speed limit on Lake Windermere.

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(4 marks)

15

Turn over for the next question

8 Coastal Landscapes and Processes

Total for this question: 15 marks

(a) Study **Figure 12**, on the insert, a photograph of Flamborough Head on the east coast of England.

(i) Name features **X** and **Y**.

X

Y

(2 marks)

(ii) Feature **Z** is a wave-cut platform. Complete the sentences below to explain how a wave-cut platform is formed.

Choose the correct words from this list.

- | | | | |
|-----------------------|--------------------|-----------------|------------------------|
| wave-cut notch | attrition | advances | constructive |
| retreats | destructive | stack | hydraulic power |

The base of the cliffs is attacked by waves.

These erode the cliffs by and corrasion forming a

..... . This gets larger until the cliff collapses.

As the process is repeated many times the cliff

leaving a wave-cut platform below.

(4 marks)

(b) Study **Figure 13**, on the insert, a photograph which shows some coastal defences in an area of sand dunes.

(i) Suggest why this stretch of coastline may need coastal defences.

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(2 marks)

(ii) Describe the types of coastal defences shown in **Figure 13**.

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(3 marks)

(c) Explain how some coastal defences work.

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(4 marks)

15

Turn over for the next question

9 Weather and Climate

Total for this question: 15 marks

(a) Study **Figure 14**, on the insert, a satellite image of a depression approaching the British Isles in January 2002.

(i) Name features **X**, **Y** and **Z**.
Choose the correct labels from this list.

Anticyclone

Warm front

Shower clouds behind the front

Clear sky

Centre of low pressure

Thick cloud

X

Y

Z

(3 marks)

(ii) Complete the sentences below to describe the passage of a cold front in a depression.

Choose the correct words from this list.

cirrus

falls

slowly

heavy

rises

quickly

cumulo-nimbus

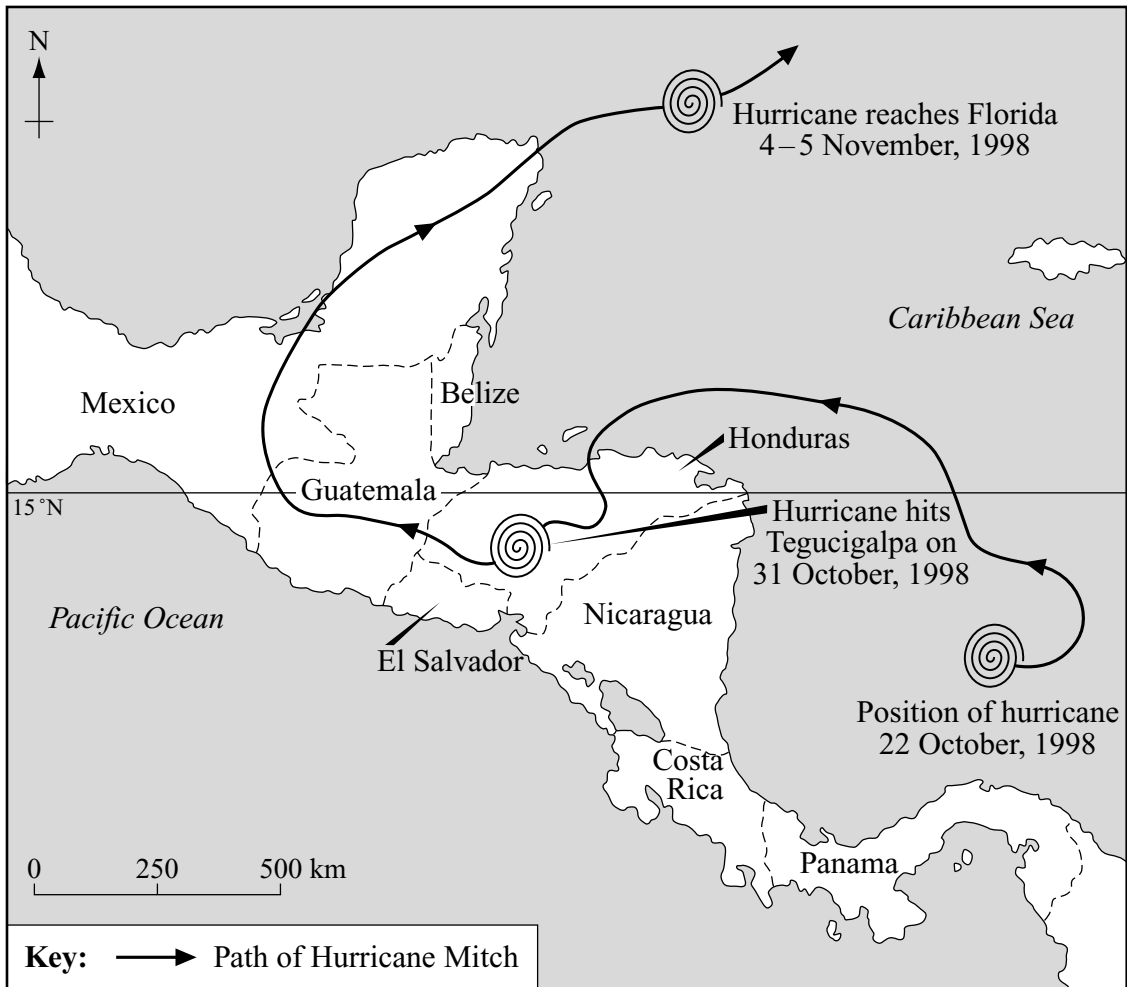
light

As a cold front passes, the temperature and the wind speed increases. The air rises and leads to the formation of tall clouds. There is a short period of rain. There may be thunder and lightning.

(4 marks)

(b) Study **Figure 15**, which shows information about Hurricane Mitch.

Figure 15



(i) Describe the path Hurricane Mitch took after 22 October 1998.

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(2 marks)

(ii) Give **two** features of a tropical storm such as Hurricane Mitch.

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(2 marks)

Question 9 continues on the next page

Turn over ►

(iii) Describe the effects of a tropical storm.

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(4 marks)

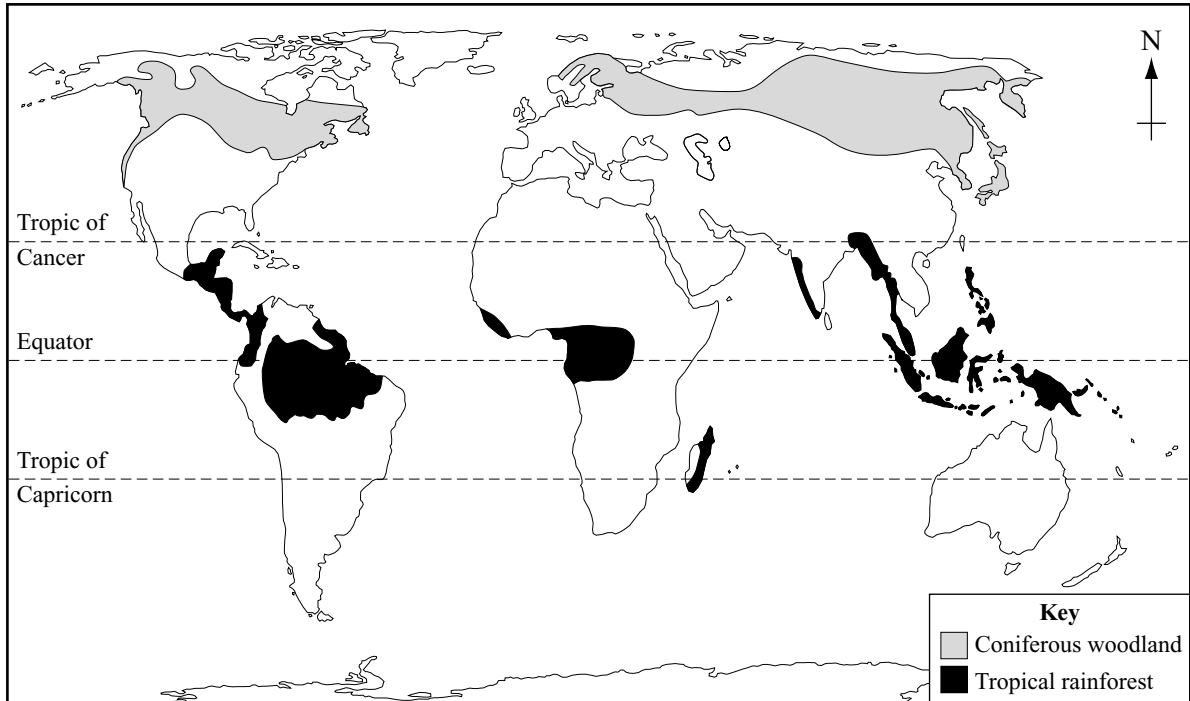
15

10 Ecosystems

Total for this question: 15 marks

- (a) Study **Figure 16**, which shows the global distribution of tropical rainforests and coniferous woodlands.

Figure 16



- (i) Using **Figure 16**, tick the correct box for each statement to show whether it is **true** or **false**.

	True	False
The largest single area of tropical rainforest is found in South America.	<input type="checkbox"/>	<input type="checkbox"/>
All tropical rainforests lie between the Tropics of Cancer and Capricorn.	<input type="checkbox"/>	<input type="checkbox"/>
All coniferous woodlands are north of the Tropic of Cancer.	<input type="checkbox"/>	<input type="checkbox"/>

(3 marks)

Question 10 continues on the next page

(ii) Complete the sentences below to describe the climate where coniferous woodlands grow. Choose the correct words from this list.

- | | | | |
|--------------|--------------|--------------|-------------|
| below | long | short | warm |
| rain | above | cold | snow |

Coniferous woodlands often grow in areas where temperatures are for most of the year. The winter temperatures may be freezing point for up to six months.

The length of the growing season is

Precipitation is often less than 750 mm a year which in winter mostly falls as

(4 marks)

(b) Study **Figure 17**, on the insert, a photograph which shows deforestation in an area of a tropical rainforest.

(i) What is the meaning of the term ‘deforestation’?

.....

.....

(1 mark)

(ii) Why is this deforestation taking place?

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(3 marks)

(iii) Describe the effects of deforestation on the local people in the tropical rainforest.

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(4 marks)

15

END OF QUESTIONS

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Question 4 Figure 5: adapted from T. W. RANDLE, *Geographical Studies in Western Europe*, 5th Impression (1980) Oliver & Boyd

Question 5 Figure 6: adapted from E. YOUNG AND J. LOWRY, *A Course in World Geography: British Isles*, 1960
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Question 6 Figure 9: Copyright © Environment Agency

Question 8 Figure 12: J. PALLISTER AND A. BOWEN, *A2 Geography* (2001) Heinemann, Photo © John Pallister

Question 9 Figure 14: NERC Satellite Receiving Station, University of Dundee

Question 9 Figure 15: M. SKINNER, *Access to Geography – Hazards*, 2003. Reproduced by permission of Hodder & Stoughton Ltd

Question 10 Figure 16: adapted from G. O’HARE, *Soils, Vegetation and Ecosystems*, Pearson Education Limited, 1988

Question 10 Figure 17: EMPICS/DPA

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**ORDNANCE SURVEY MAP EXTRACTS FOR GCSE GEOGRAPHY SPECIFICATION A
SUMMER 2006 EXAMINATION**

We are unable to reproduce the OS map extracts used in this paper due to third party copyright constraints.
The details of the maps used are given below.

FIGURE 1
3031/1F, 3031/1H, 3036/F, 3036H
from OS Explorer Map OL14 - Wye Valley and Forest of Dean (1:25 000).

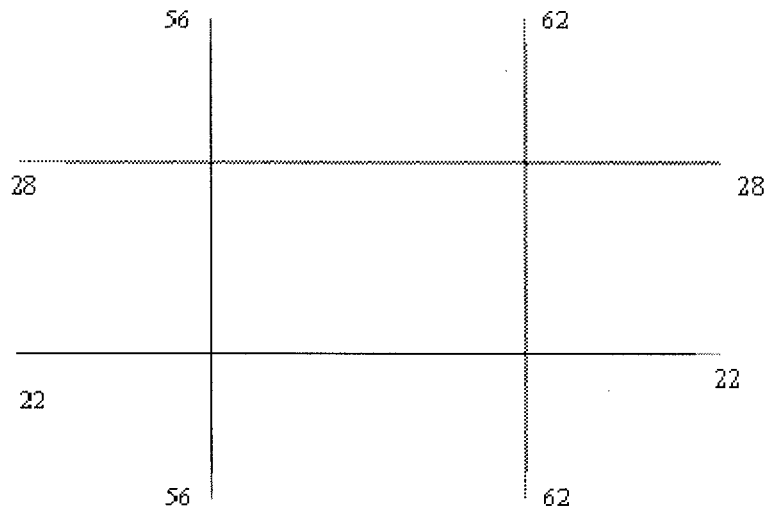
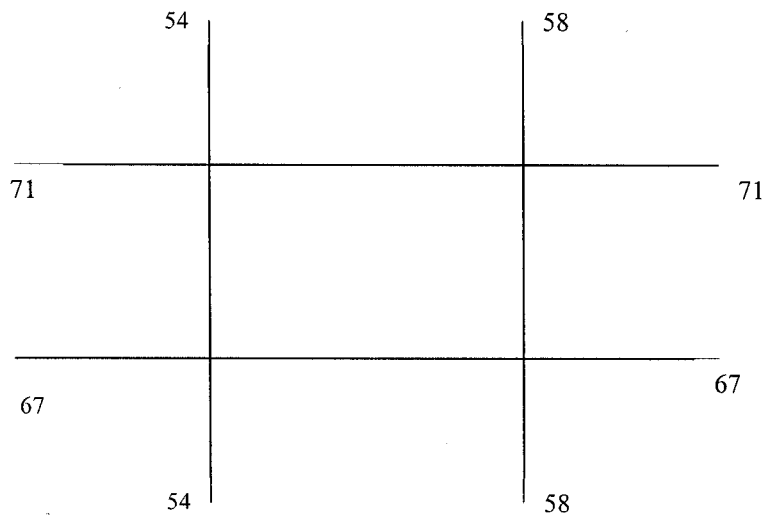


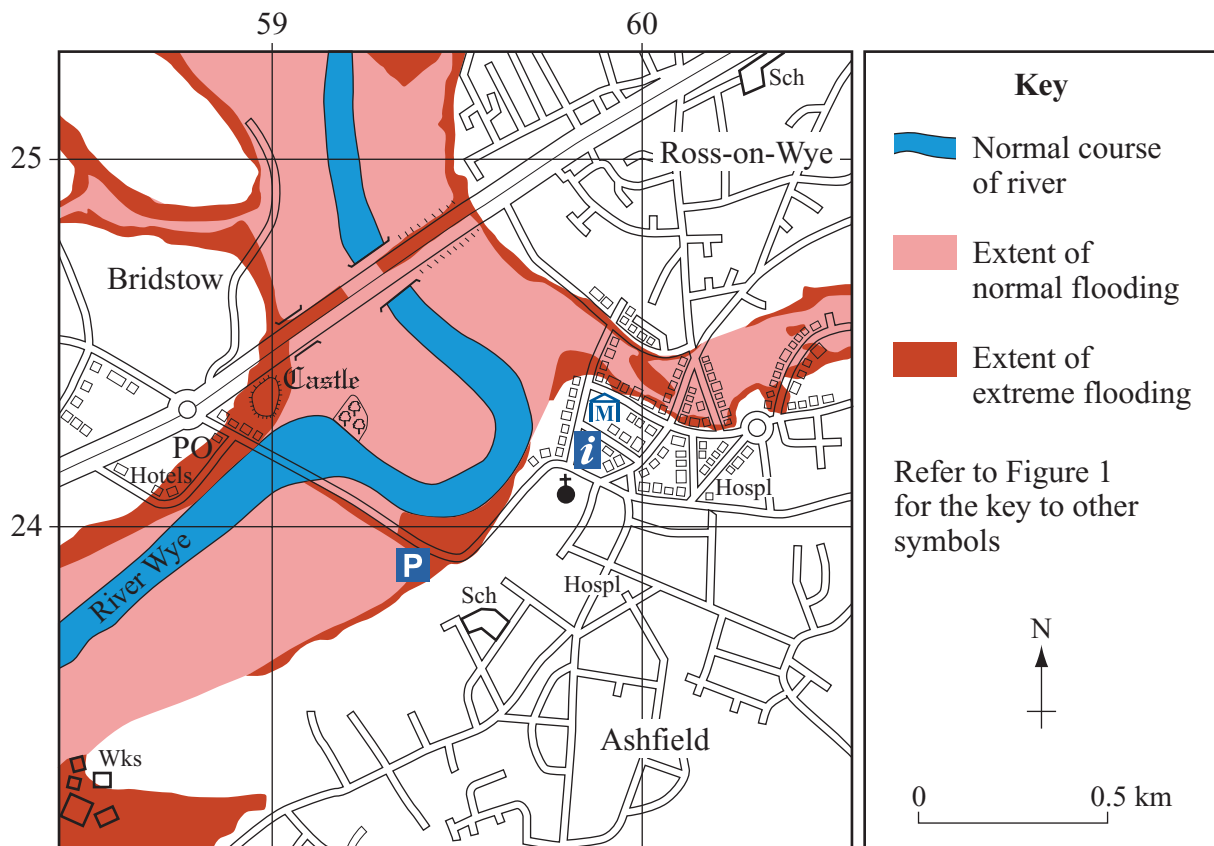
FIGURE 7
3031/1F, 3031/1H
from OS Explorer map OL28 – Dartmoor (1:25 000).



Insert

Monday 5 June 2006 9.00 am to 10.45 am

For use with Question 6
Figure 9



For use with Question 8
Figure 12

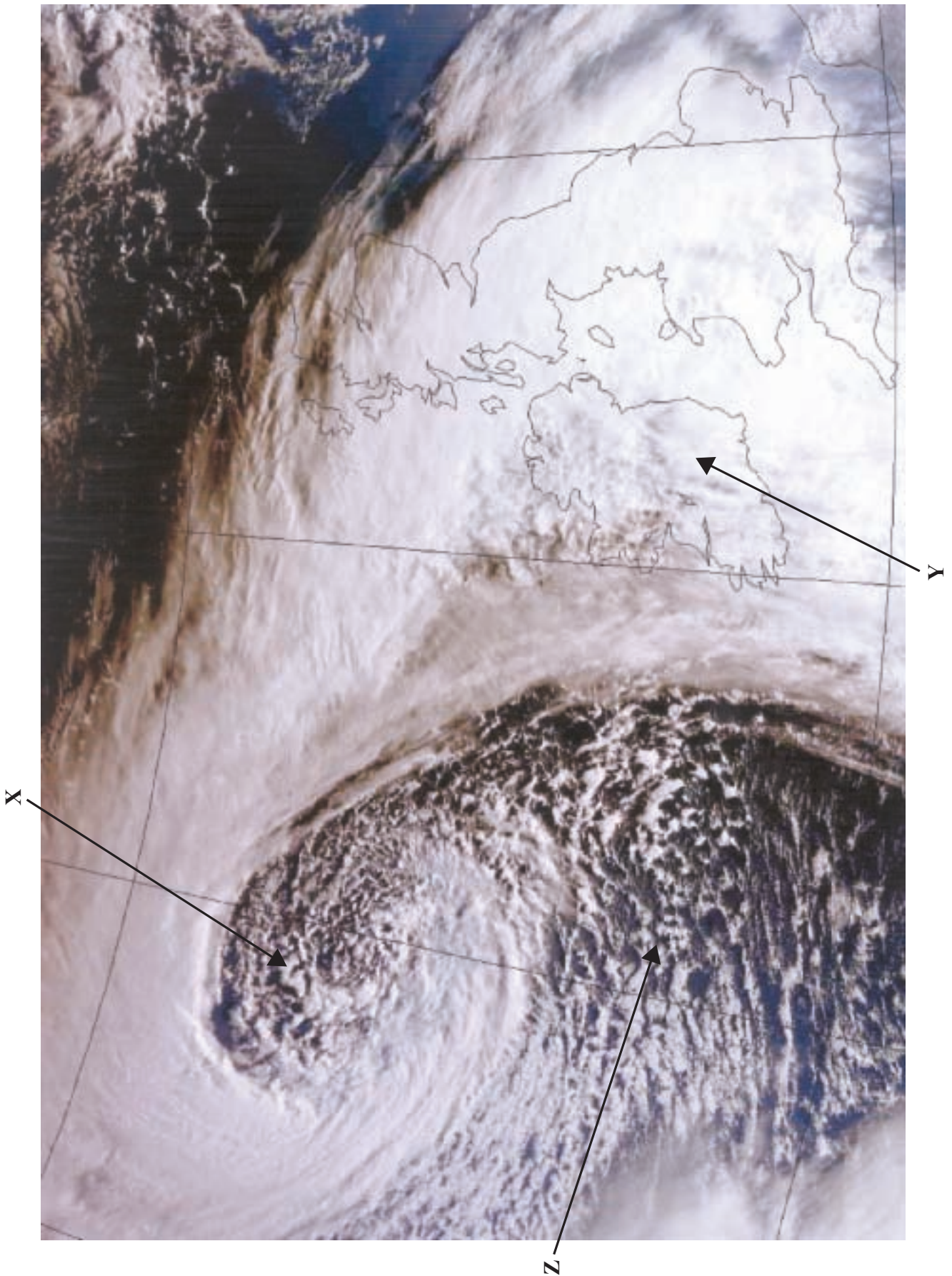
Photo of Flamborough Head - not reproduced here due to third-party copyright constraints.

For use with Question 8
Figure 13

Line of sand dunes



For use with Question 9
Figure 14



Turn over ►

For use with Question 10
Figure 17

Photo of deforestation - not reproduced here due to third-party copyright constraints.