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| Other Names | | | | | | | | | | |
| Candidate Signature | | | | | | | | | | |

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| For Examiner's Use | |
| Examiner's Initials | |
| Question | Mark |
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| 7 | |
| TOTAL | |



General Certificate of Secondary Education
Higher Tier
June 2015

Geography (Specification A)

90301H

H

Unit 1 Physical Geography

Tuesday 19 May 2015 1.30 pm to 3.00 pm

For this paper you must have:

- the colour insert (enclosed)
 - a pencil
 - a rubber
 - a ruler.
- You may use a calculator.

Time allowed

- 1 hour 30 minutes

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- **Answer THREE questions:**
 - **one** question from **Section A (Questions 1 – 4)**
 - **one** question from **Section B (Questions 5 – 7)**
 - **one** other question from **either** Section A **or** Section B.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.
- Use case studies to support your answers where appropriate.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 75.
- You are reminded of the need for good English and clear presentation in your answers. Where applicable, questions should be answered in continuous prose. Quality of written communication will be assessed in all answers.

Advice

- Where appropriate, credit will be given for the use of diagrams to illustrate answers and where reference is made to your personal investigative work. You are advised to allocate your time carefully.



J U N 1 5 9 0 3 0 1 H 0 1

G/T/110020/Jun15/E7

90301H

Section A

Answer **one** question from Section A and **one** question from Section B and **one** other question from **either** Section A **or** Section B.

Use case studies to support your answers where appropriate.

Total for this question: 25 marks

1 The Restless Earth

1 (a) Describe the characteristics of oceanic crust.

[3 marks]

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1 (b) Study **Figure 1** on the insert, a map showing the world distribution of volcanoes.

Describe the world distribution of volcanoes.

[3 marks]

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1 (c) Study **Figure 2** on the insert, a photograph of Eyjafjallajökull, a volcano in Iceland.

1 (c) (i) Draw a labelled sketch cross section to show the characteristics of this volcano.

[3 marks]



Question 1 continues on the next page

Turn over ►



1 (d) Study **Figure 3** on the insert, a map showing the Yellowstone supervolcano in the USA.

1 (d) (i) Use information in **Figure 3** to complete the table below.

[2 marks]

| | |
|-------------------------------------|----------------|
| Distance along line A–B | km |
| Shape of the supervolcano (caldera) | |

1 (d) (ii) How is a supervolcano different from a volcano?

[2 marks]

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1 (d) (iii) Describe the likely global consequences of a supervolcano eruption.

[4 marks]

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ANSWER IN THE SPACES PROVIDED**



Total for this question: 25 marks

2 Rocks, Resources and Scenery

2 (a) Study **Figure 4** on the insert, a diagram showing the geological timescale.

2 (a) (i) Use **Figure 4** to complete the following sentences.

[2 marks]

Some granite formed 280 million years ago in the Period.

The Carboniferous period lasted for million years.

2 (a) (ii) With the help of **Figure 4**, outline what is meant by an 'era'.

[2 marks]

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2 (b) Describe the characteristics of igneous rock.

[3 marks]

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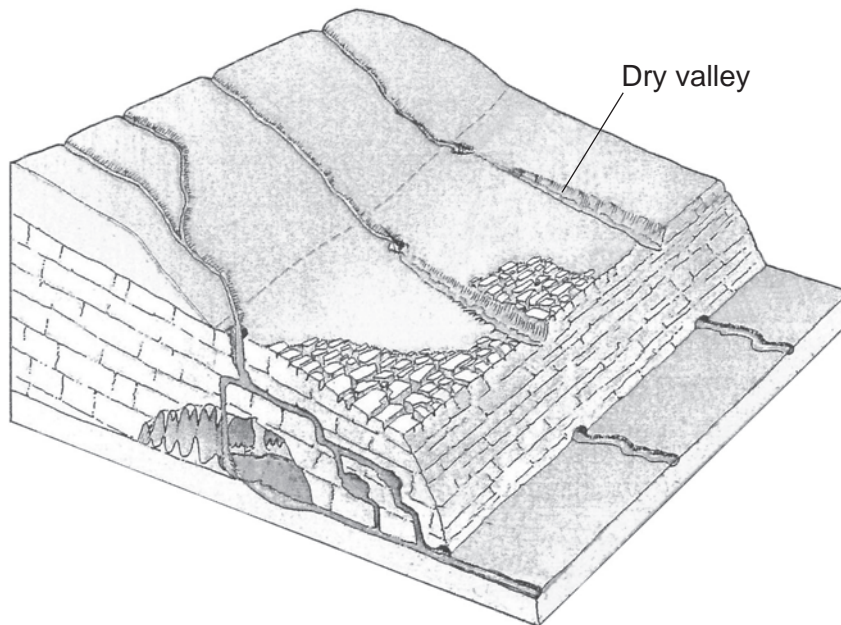
Question 2 continues on the next page

Turn over ►



2 (c) Study **Figure 5**, a block diagram showing limestone features.

Figure 5



2 (c) (i) A dry valley is shown on **Figure 5**.

On **Figure 5**, mark with an arrow and label **three other surface** features shown.

[3 marks]



2 (c) (ii) With the help of **Figure 5**, explain the formation of a dry valley.

[4 marks]

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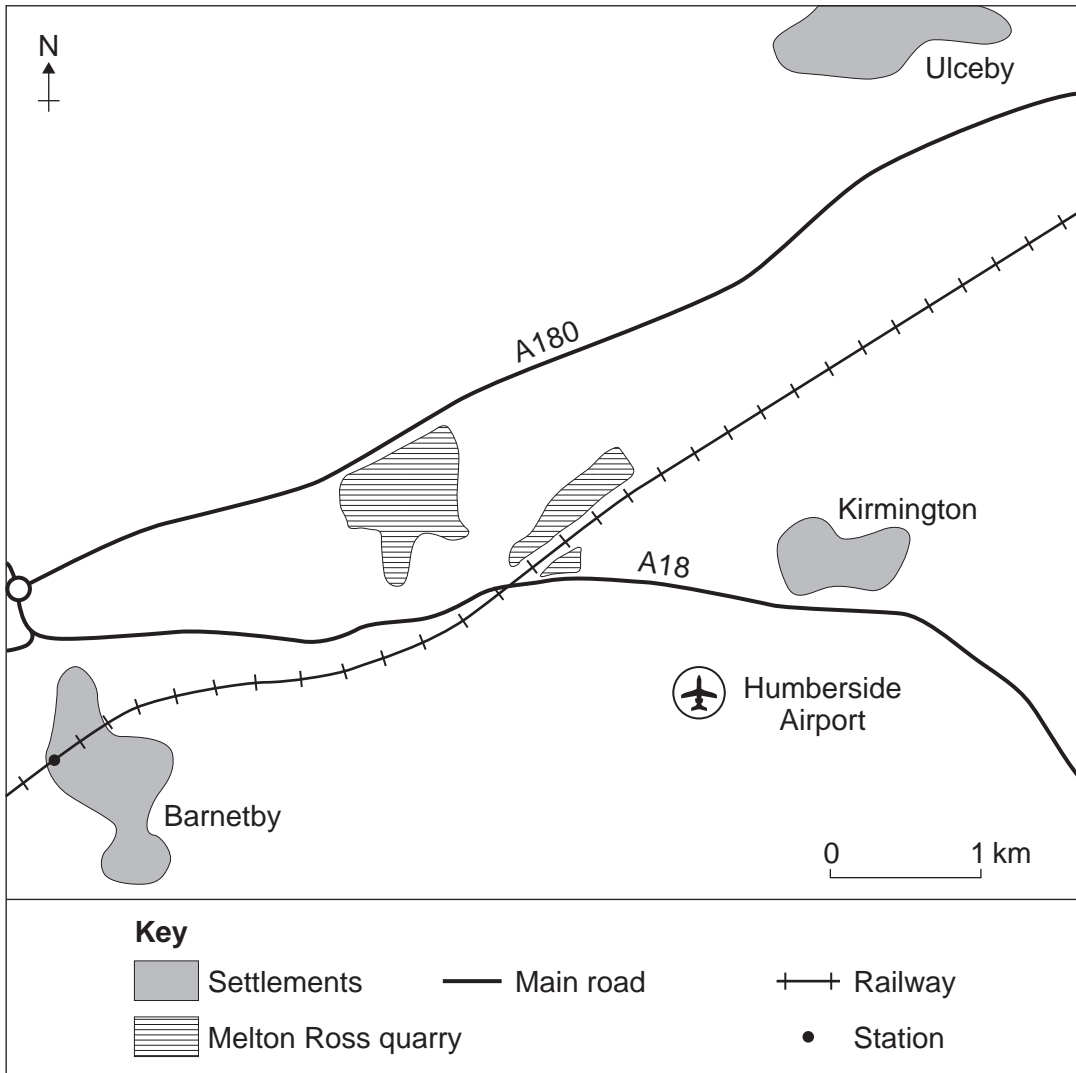
Question 2 continues on the next page

Turn over ►



2 (d) Study **Figure 6**, a sketch map showing the location of Melton Ross quarry.

Figure 6



2 (d) (i) Describe the location of Melton Ross quarry.

[3 marks]

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Total for this question: 25 marks

3 Challenge of Weather and Climate

3 (a) Study **Figure 7** on the insert, a map showing the average maximum monthly temperature at four weather stations in the UK from 1981 to 2010.

3 (a) (i) Use **Figure 7** to describe how temperature varies in the UK.

[3 marks]

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3 (a) (ii) How does **latitude** explain the difference in temperature between London and Edinburgh?

[2 marks]

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3 (a) (iii) How does **altitude** explain the difference in temperature between Llanbedr and Lake Vyrnwy?

[2 marks]

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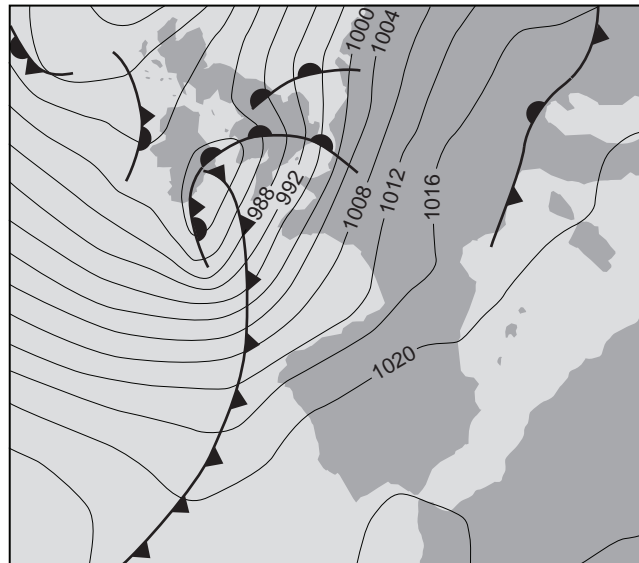
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3 (b) Study **Figure 8**, a synoptic chart showing the St Jude storm over the British Isles on 28 October 2013.

Figure 8



3 (b) (i) On **Figure 8**, mark with an arrow and label:

- the centre of the low pressure
- the warm sector
- a location with high wind speed.

[3 marks]

3 (b) (ii) Describe the weather associated with the passage of a warm front of a depression.

[3 marks]

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Question 3 continues on the next page

Turn over ►



3 (c) Study **Figures 9a** and **9b** on the insert, photographs taken after the Philippines were hit by Typhoon Haiyan (a tropical revolving storm) on 8 November 2013.

Figure 9a shows Tacloban Airport.

Figure 9b shows the Tacloban coast near the airport.

Describe the effects of Typhoon Haiyan shown in **Figures 9a** and **9b**.

[4 marks]

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Total for this question: 25 marks

4 Living World

4 (a) Study **Figure 10** on the insert, a diagram of a simple ecosystem.

4 (a) (i) Outline how the soil is affected by the vegetation.

[2 marks]

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4 (a) (ii) Outline how the vegetation is affected by the soil.

[2 marks]

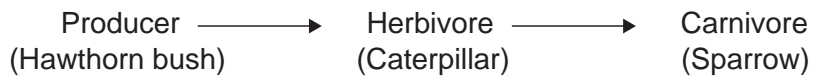
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4 (b) (i) A food chain is shown below.



Explain the links between the different levels in a food chain.

[3 marks]

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4 (b) (ii) Explain the role of decomposers in an ecosystem.

[3 marks]

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4 (c) Study **Figure 11** on the insert, a map showing the location of temperate deciduous forest.

Use **Figure 11** to describe the distribution of temperate deciduous forest.

[3 marks]

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Question 4 continues on the next page

Turn over ►



4 (d) Study **Figure 12** on the insert, a photograph of part of Epping Forest, a temperate deciduous woodland in the south of England.

Use **Figure 12** to describe the characteristics of this temperate deciduous woodland.

[4 marks]

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Section B

Answer **one** question from Section A and **one** question from Section B and **one** other question from **either** Section A **or** Section B.

Use case studies to support your answers where appropriate.

Total for this question: 25 marks

5 Water on the Land

5 (a) Study **Figure 13** on the insert, a 1:25 000 Ordnance Survey map extract of part of the Peak District.

Damflask Reservoir is named in grid square 2790. The dam is in grid square 2890.

5 (a) (i) What is the length of the dam along the line **X–Y** on the map?

[1 mark]

..... km

5 (a) (ii) What shape is Damflask Reservoir?

[1 mark]

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5 (a) (iii) Describe the relief (height and slope of the land) around Damflask Reservoir.

[2 marks]

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- 5 (c)** Study **Figure 15** on the insert, a photograph of High Force waterfall on the River Tees in the north of England.

Figure 16 is a black and white copy of **Figure 15**.

Figure 16



5 (c) (i) On **Figure 16**, mark with an arrow and label **three** characteristics of the waterfall. **[3 marks]**

5 (c) (ii) Explain the formation of a waterfall. **[4 marks]**

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Question 5 continues on the next page

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6 (b) Study **Figure 18** on the insert, a 1:50 000 Ordnance Survey map extract of the Helvellyn area of the Lake District.

6 (b) (i) Red Tarn (grid square 3415) is in a corrie.

In what direction does the corrie face?

[1 mark]

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6 (b) (ii) What is the height of Helvellyn at grid reference 342151?

[1 mark]

..... m

6 (b) (iii) A corrie is labelled on **Figure 18**.

Figure 19 (opposite) is a black and white copy of **Figure 18**.

On **Figure 19**, mark with an arrow and label **two other** landforms resulting from glacial erosion.

[2 marks]



Figure 19



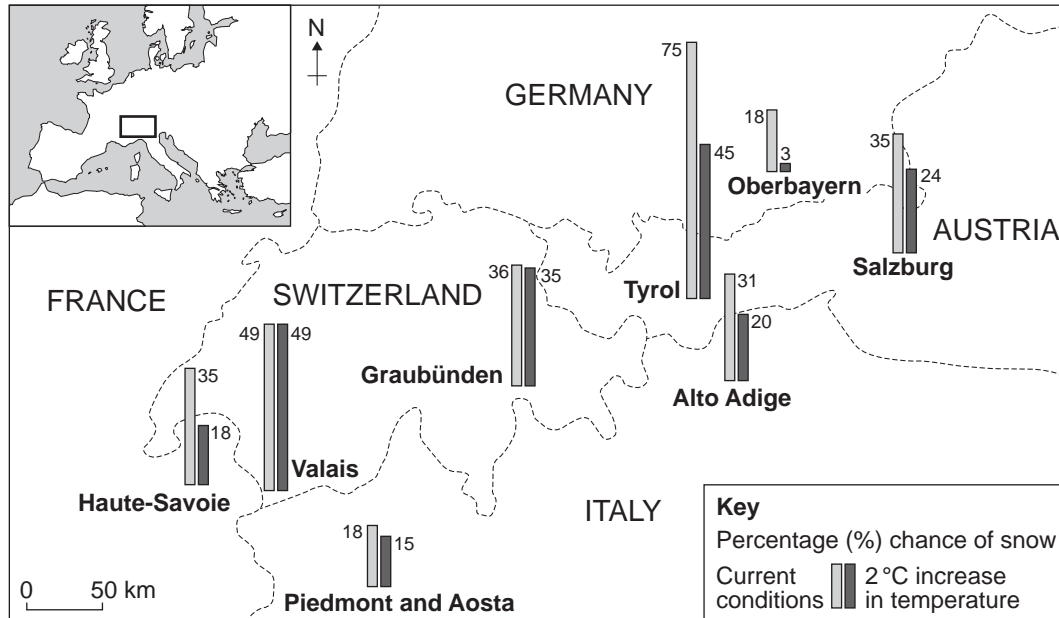
Question 6 continues on the next page

Turn over ►



- 6 (d) Study **Figure 20**, a located bars map showing the chance of snow in selected regions of the Alps under current conditions and the chance of snow if there is a 2 °C increase in temperature.

Figure 20



- 6 (d) (i) Describe how the percentage chance of snow may change if there is a 2 °C increase in temperature.

[3 marks]

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Question 6 continues on the next page

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6 (d) (ii) Describe the economic and social impacts of unreliable snowfall on some resorts.

[6 marks]

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Total for this question: 25 marks

7 The Coastal Zone

7 (a) Study **Figure 21** on the insert, a photograph of Happisburgh, Norfolk.

Outline the evidence from **Figure 21** that suggests erosion is taking place on this coast. **[3 marks]**

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7 (b) Explain the formation of a wave-cut platform.

[4 marks]

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Question 7 continues on the next page

Turn over ►



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7 (d) Study **Figure 23** on the insert, a 1:50 000 Ordnance Survey map extract of Walton-on-the-Naze.

7 (d) (i) What is the **four figure** grid reference of the Nature Reserve marked **X**?

[1 mark]

.....

7 (d) (ii) What is the distance along the line from the coast at point **Y** to the island at point **Z**?

[1 mark]

..... km

7 (d) (iii) Grid squares 2223 and 2323 are outlined on the map.

Describe the coastal environment shown in these grid squares.

[2 marks]

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Question 7 continues on the next page

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Figure 5: Block diagram of a Carboniferous limestone landscape taken from David Waugh and Tony Bushell's 'New Key Geography for GCSE 2nd Edition' (ISBN 978-0-7487-8133-1), first published in 2002. Permission granted by Oxford University Press.

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Figure 16: Derek Teasdale, North Eastern Geological Society

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Figure 20: Based on data from OECD.

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General Certificate of Secondary Education
Higher Tier
June 2015

Geography (Specification A)

90301H

Unit 1 Physical Geography

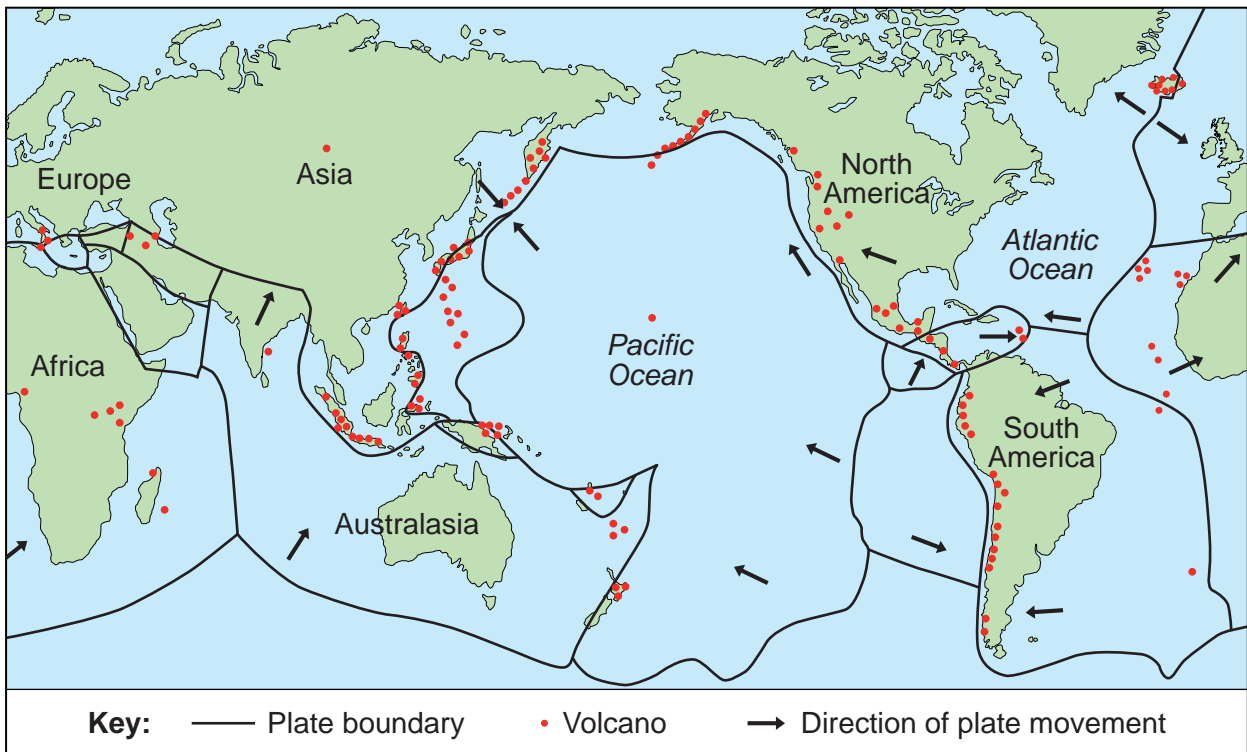
Insert

The key for Figure 13 (1:25 000 OS map extract) is on page 11.

A The key for Figure 18 and Figure 23 (1:50 000 OS map extracts) is on page 12.

Detach perforated pages 11 and 12 and use when referring to the OS map extracts.

Figure 1



Source: Understanding GCSE Geography, Bowen & Pallister, Pearson Education Ltd

Figure 2



Figure 3

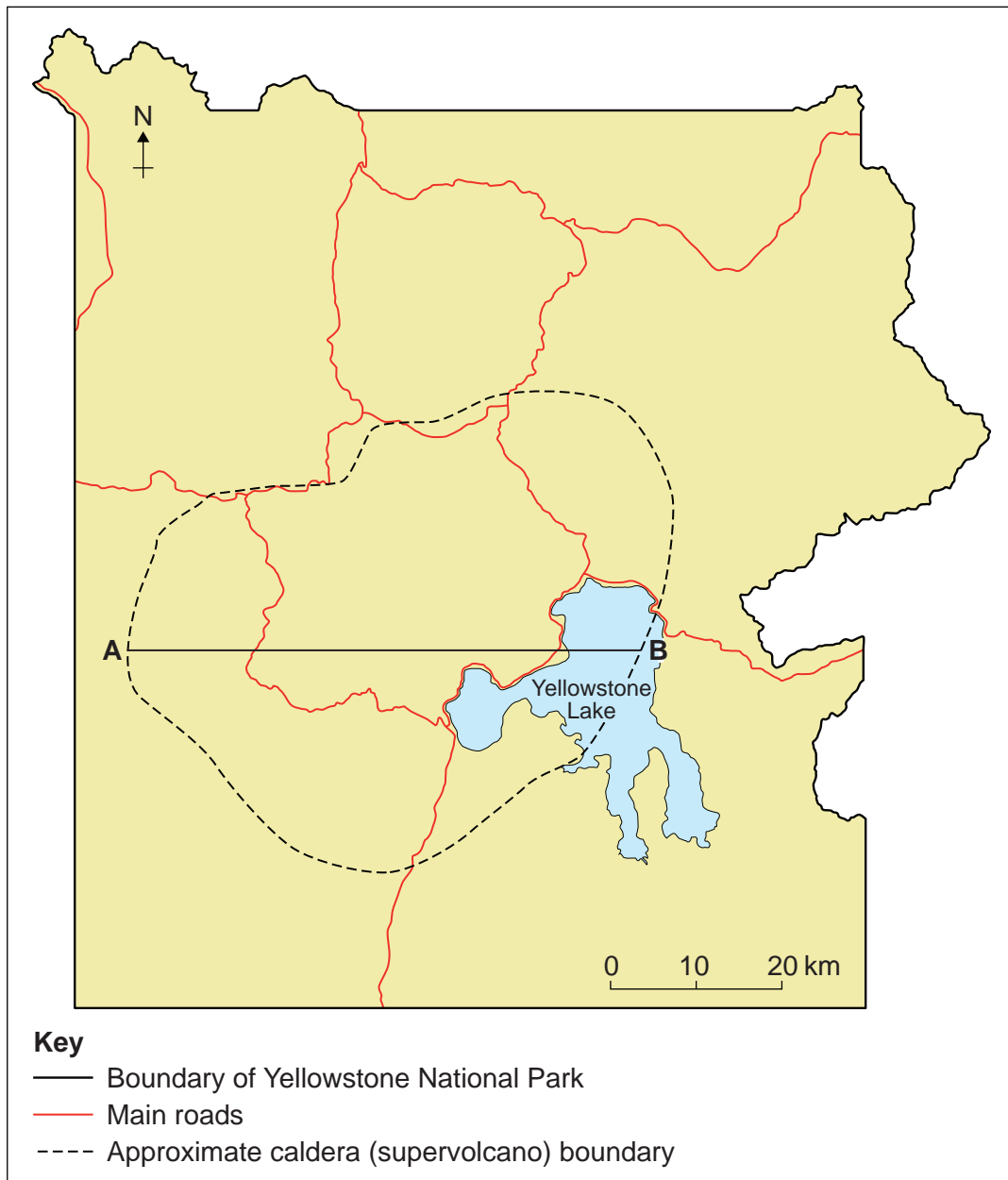
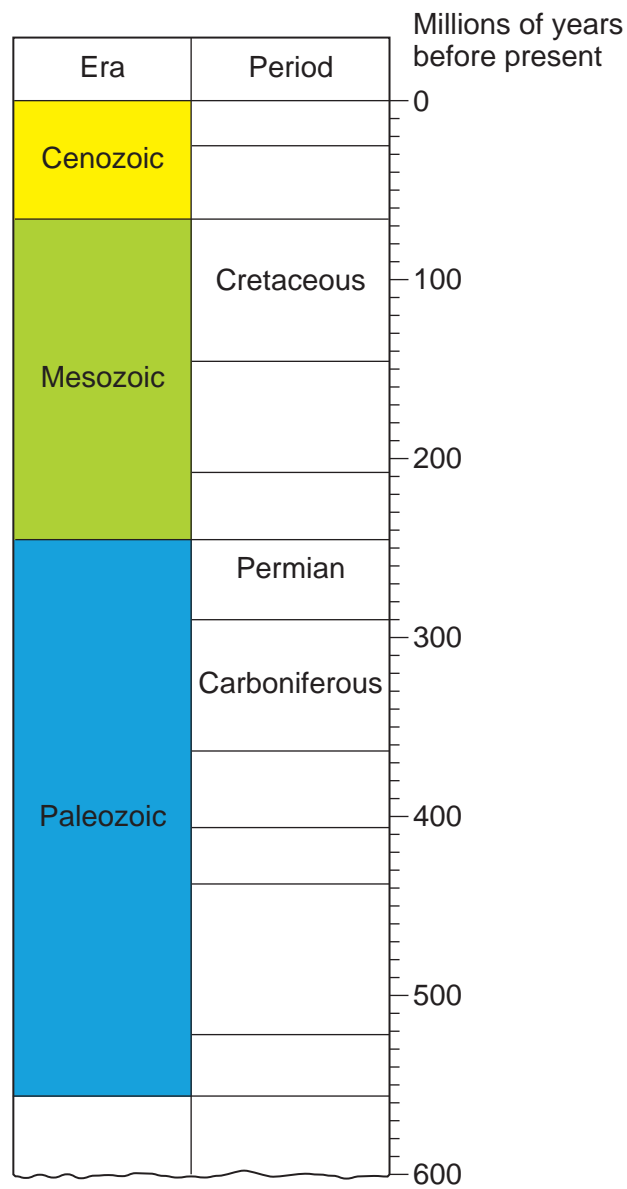


Figure 4



Turn over ►

Figure 7

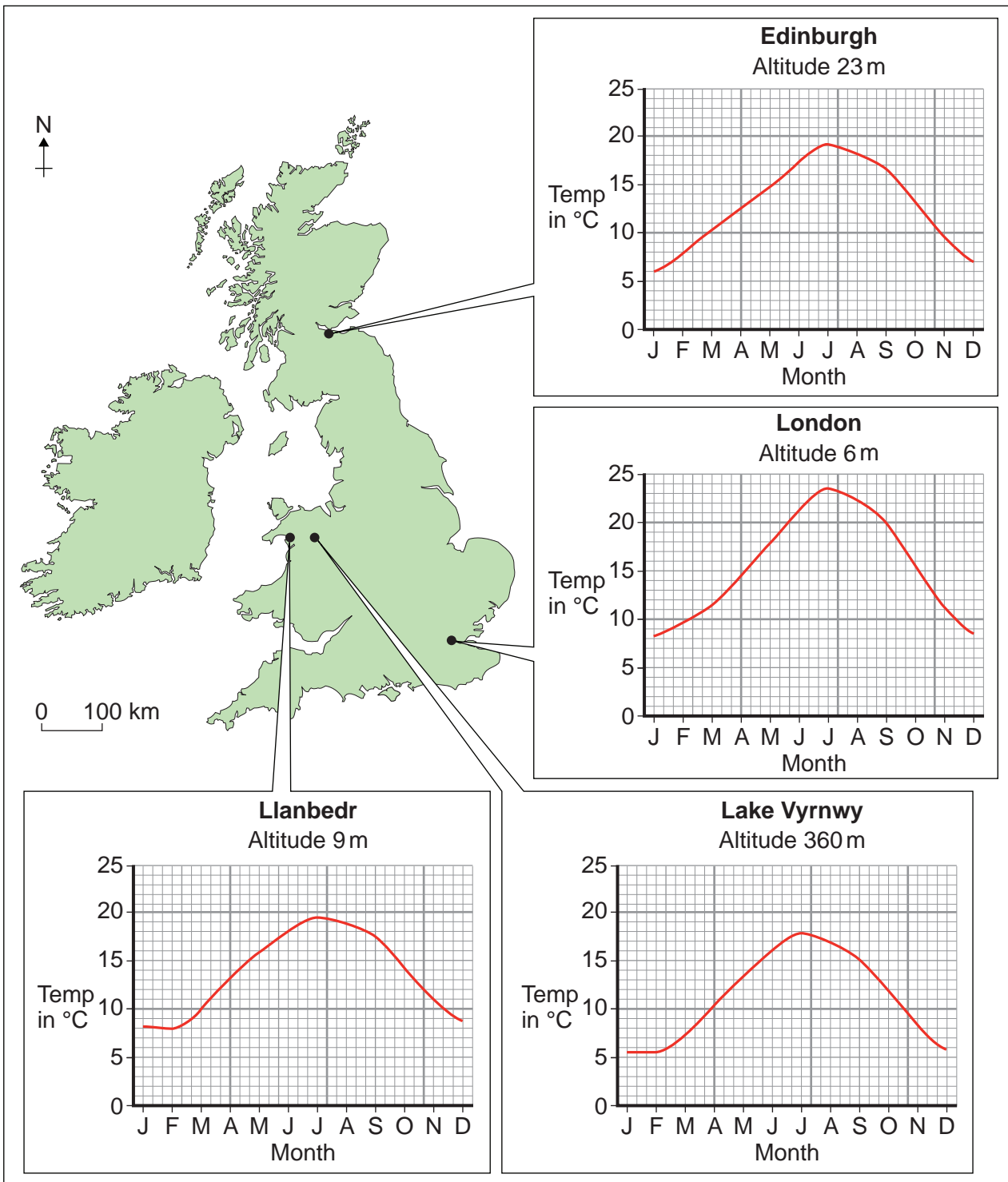


Figure 9a



Figure 9b



Turn over ►

Figure 10

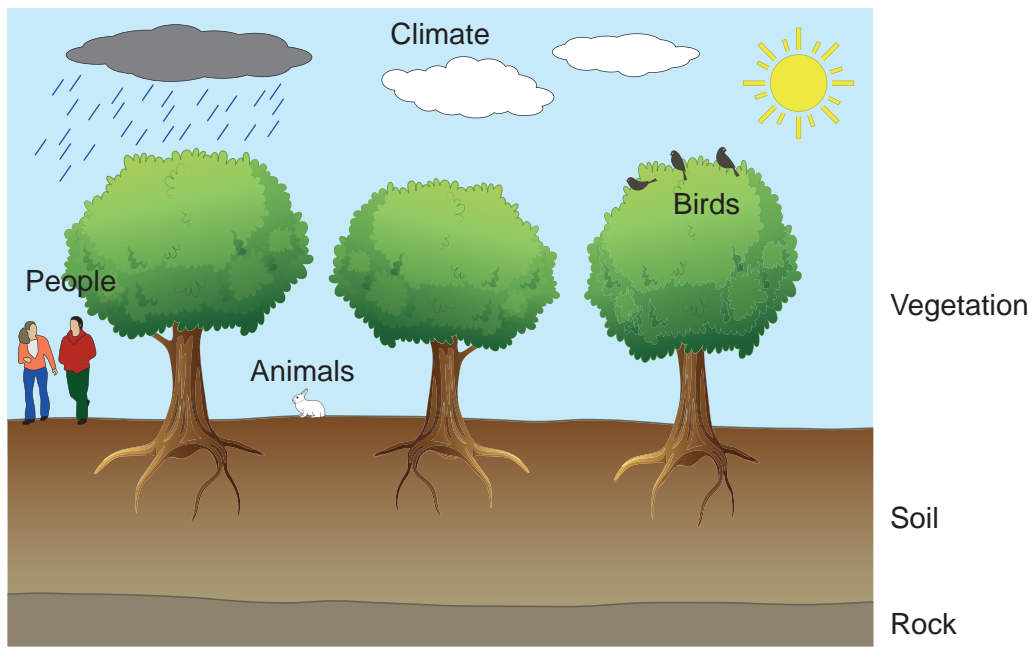
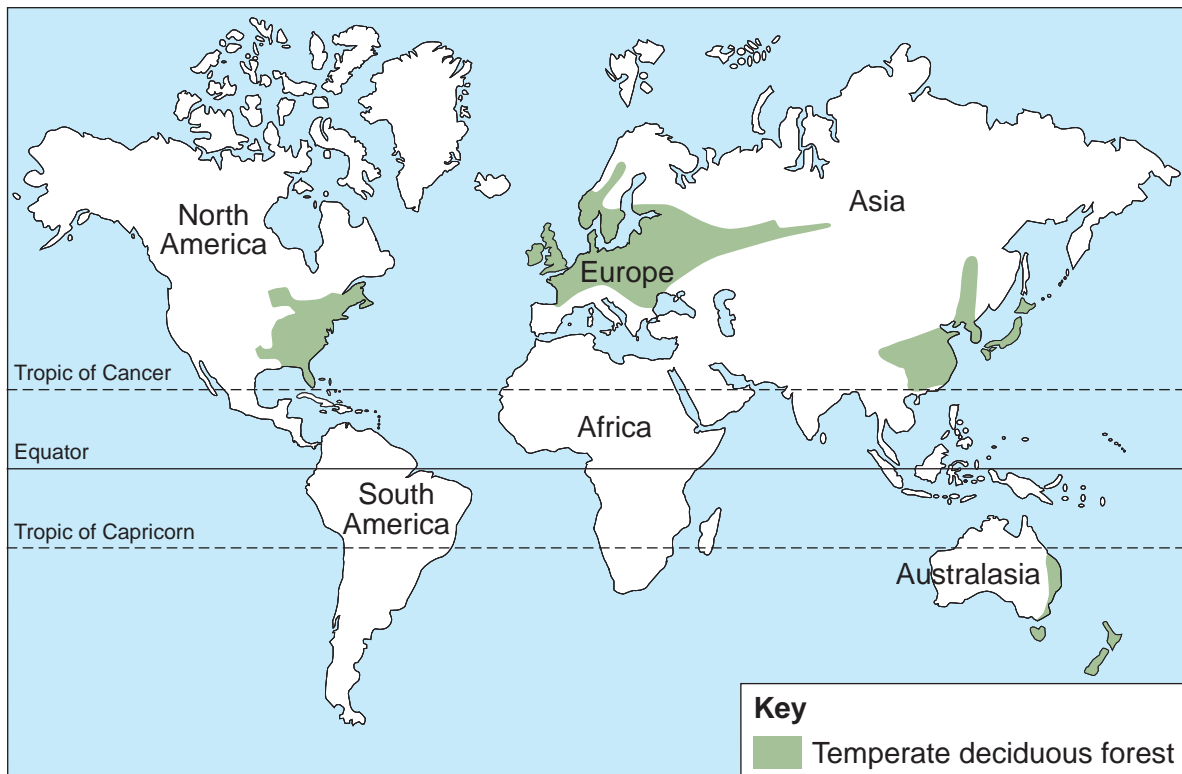


Figure 11



Source: Understanding GCSE Geography, Bowen & Pallister, Pearson Education Ltd

Figure 12



1:25 000 OS map extract key for Figure 13

| | | | | | | |
|---|---|--|---|--|--|---|
| ROADS AND PATHS Not necessarily rights of way | | GENERAL FEATURES | | | | |
| Motorway Dual carriageway Main road Secondary road Narrow road with passing places Road under construction Road generally more than 4 m wide Road generally less than 4 m wide Other road, drive or track, fenced and unfenced Gradient: steeper than 20% (1 in 5) Ferry (V) Vehicle; (P) Passenger Path | Service Area Junction Number RAILWAYS Multiple track } Standard gauge Single track } Narrow gauge or Light Rapid Transit System (LRTS) and station Road over; road under; level crossing Cutting; tunnel; embankment Station, open to passengers; siding | Gravel pit Sand pit Other pit or quarry Landfill site or slag heap Slopes Place of worship Current or former place of worship Building: important building Glasshouse Youth hostel Bunkhouse / camping barn / other hostel Bus or coach station Lighthouse; disused lighthouse; Beacon | Triangulation pillar Mast Windmill; with or without sails Wind pump; wind turbine Electricity transmission line BP Boundary post BS Boundary stone CH Clubhouse FB Footbridge MP; MS Milepost; milestone Mon Monument PO Post office Pol Sta Police station Sch School TH Town Hall NTL Normal tidal limit Well; spring | | | |
| PUBLIC RIGHTS OF WAY Not shown on maps of Scotland | | HEIGHTS AND NATURAL FEATURES | | | | |
| Footpath Bridleway Byway open to all traffic Restricted byway <p>The representation on this map of any other road, track or path is no evidence of the existence of a right of way</p> | | 52 Ground survey height 234 Air survey height <p>Surface heights are to the nearest metre above mean sea level. Where two heights are shown, the first height is to the base of the triangulation pillar and the second (in brackets) to the highest natural point of the hill</p> Vertical face/cliff Boulders Loose rock Outcrop Scree Water; mud Sand; sand and shingle | | | | |
| OTHER PUBLIC ACCESS | | ACCESS LAND (England & Wales) | | | | |
| Other routes with public access National Trail / Long Distance Route; Recreational route Permitted footpath } See note below Permitted bridleway } <p>Footpaths and bridleways along which landowners have permitted public use but which are not rights of way. The agreement may be withdrawn.</p> Traffic-free cycle route National cycle network route number - traffic free National cycle network route number - on road | | Access land boundary and tint Access land in wooded area Access information point Access permitted within managed controls, for example, local byelaws | | | | |
| BOUNDARIES | | ACCESS LAND (Scotland) | | | | |
| National County (England) Unitary Authority (UA), Metropolitan District (Met Dist), London Borough (LB) or District (Scotland & Wales are solely Unitary Authorities) Civil Parish (CP) (England) or Community (C) (Wales) National Park | | Land open to the public by permission of the owners. The agreement may be withdrawn. National Trust for Scotland Property; always open National Trust for Scotland Property; limited access - observe local signs Forestry Commission Land Woodland Trust Land | | | | |
| HISTORICAL FEATURES | | OTHER ACCESS | | | | |
| Site of antiquity Site of battle (with date) VILLA Roman Castle Non-Roman Visible earthwork | | Firing and test ranges in the area. Danger! Observe warning notices | | | | |
| TOURIST AND LEISURE INFORMATION | | | | | | |
| <table border="0"> <tr> <td> Building of historic interest Cadw (Welsh heritage) Camp site Caravan site Camping and caravan site Castle / fort Cathedral / Abbey Country park Cycle trail English Heritage property Fishing Forestry Commission visitor centre </td> <td> Garden / arboretum Golf course or links Information centre Information centre, seasonal Horse riding Museum Nature reserve National Trust property Other tourist feature Parking Park and ride, all year / seasonal Picnic site </td> <td> Preserved railway Public Convenience Public house/s Recreation / leisure / sports centre Slipway Telephone (public / motoring organisation / emergency) Theme / pleasure park Viewpoint Visitor centre Walks / trails Water activities World Heritage site or area </td> </tr> </table> | | | | Building of historic interest Cadw (Welsh heritage) Camp site Caravan site Camping and caravan site Castle / fort Cathedral / Abbey Country park Cycle trail English Heritage property Fishing Forestry Commission visitor centre | Garden / arboretum Golf course or links Information centre Information centre, seasonal Horse riding Museum Nature reserve National Trust property Other tourist feature Parking Park and ride, all year / seasonal Picnic site | Preserved railway Public Convenience Public house/s Recreation / leisure / sports centre Slipway Telephone (public / motoring organisation / emergency) Theme / pleasure park Viewpoint Visitor centre Walks / trails Water activities World Heritage site or area |
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1:50 000 OS map extract key for Figure 18 and Figure 23

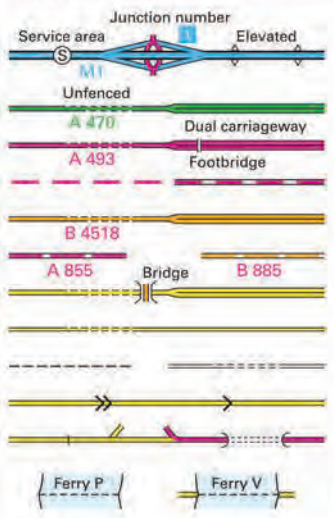

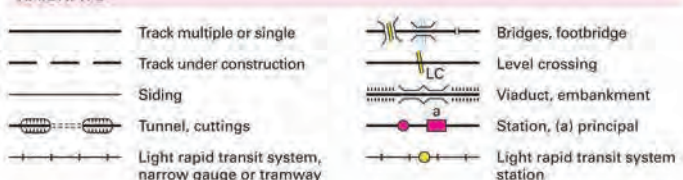

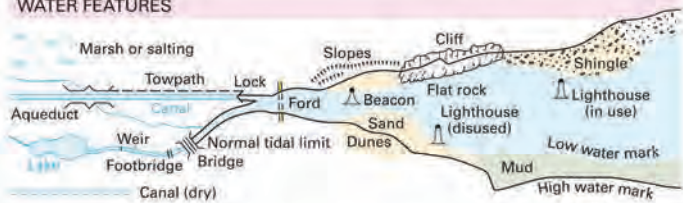

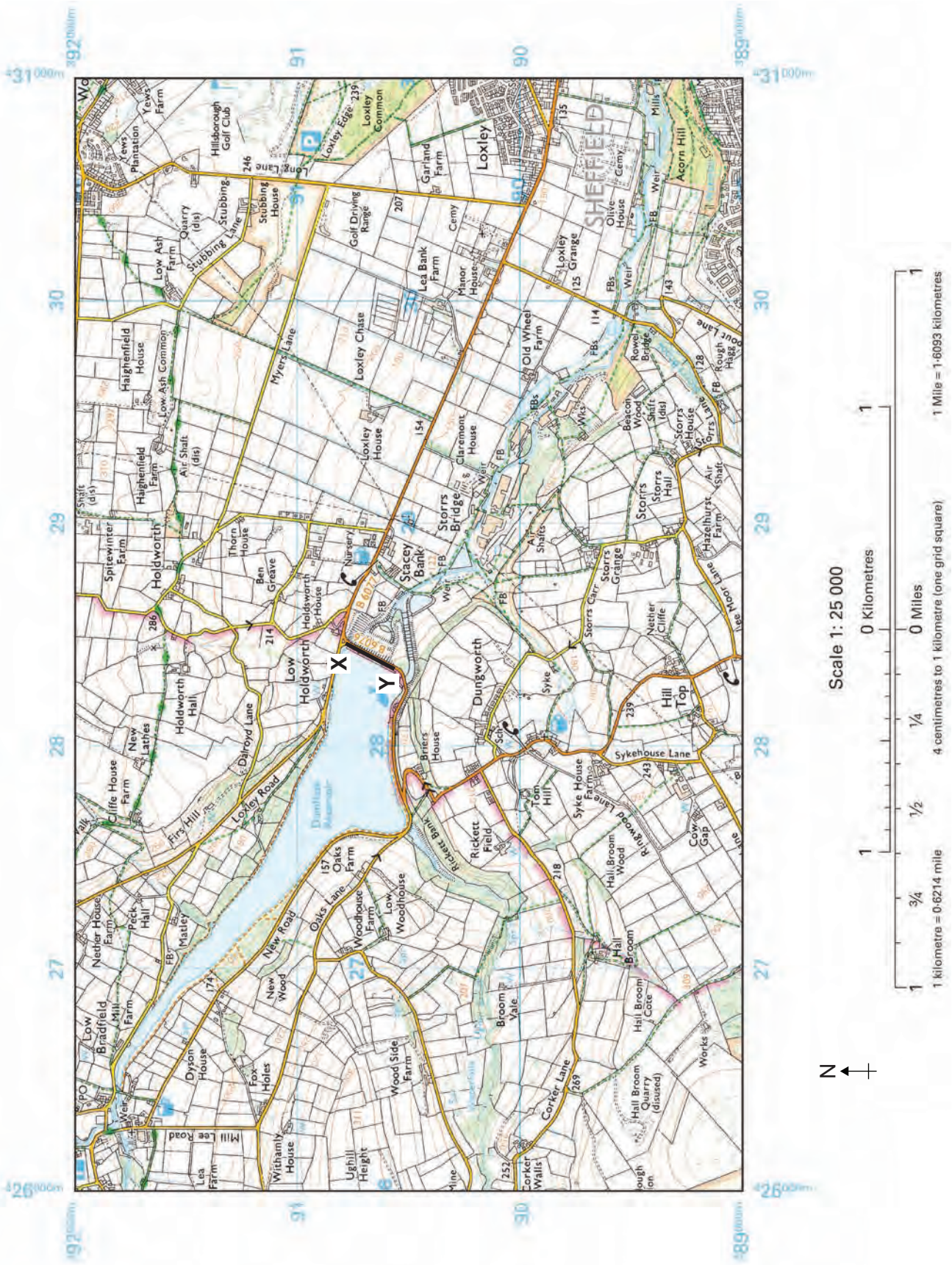
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|---|-------------|---|-------------------------------------|--|--------|----|-----------|------|----------|-----|--------|----|-------------|---|-------------|----|-----------|----|-------------------------------------|----|------|----|--------------|----|-------|-----|--------|----|----------|----|------------------------------------|
| ROADS AND PATHS  | | Not necessarily rights of way <ul style="list-style-type: none"> Motorway (dual carriageway) Primary Route (recommended through route) Main road Road under construction Secondary road Narrow road with passing places Road generally more than 4m wide Road generally less than 4m wide Path / Other road, drive or track Gradient: steeper than 20% (1 in 5), 14% to 20% (1 in 7 to 1 in 5) Gates, Road tunnel Ferry (passenger), Ferry (vehicle) | | TOURIST INFORMATION  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RAILWAYS  | | LAND FEATURES  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WATER FEATURES  | | ROCK FEATURES  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HEIGHTS <p>1 metre = 3-2808 feet</p> <p>Contours are at 10 metres vertical interval</p> <p>Heights are to the nearest metre above mean sea level</p> <p>Where two heights are shown the first height is to the base of the triangulation pillar and the second (in brackets) to the highest natural point of the hill</p> | | OTHER PUBLIC ACCESS <ul style="list-style-type: none"> Other route with public access (not normally shown in urban areas). Alignments are based on the best information available. These routes are not shown on maps of Scotland. On-road cycle route Traffic-free cycle route National Cycle Network number Regional Cycle Network number National Trail, European Long Distance Path, Long Distance Route, selected Recreational Routes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PUBLIC RIGHTS OF WAY <ul style="list-style-type: none"> Footpath Bridleway Restricted byway Byway open to all traffic <p>The symbols show the defined route so far as the scale of mapping will allow.</p> <p>The representation on this map of any other road, track or path is no evidence of the existence of a right of way. Not shown on maps of Scotland</p> <p>Danger Area Firing and Test Ranges in the area. Danger! Observe warning notices.</p> | | BOUNDARIES <ul style="list-style-type: none"> National District County, Unitary Authority, Metropolitan District or London Borough National Park | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANTIQUITIES <ul style="list-style-type: none"> Site of antiquity Battlefield (with date) Visible earthwork VILLA Roman Non-Roman | | ABBREVIATIONS <table border="0"> <tr> <td>Br</td><td>Bridge</td> <td>MS</td><td>Milestone</td> </tr> <tr> <td>Cemy</td><td>Cemetery</td> <td>Mus</td><td>Museum</td> </tr> <tr> <td>CG</td><td>Cattle grid</td> <td>P</td><td>Post office</td> </tr> <tr> <td>CH</td><td>Clubhouse</td> <td>PC</td><td>Public convenience (in rural areas)</td> </tr> <tr> <td>Fm</td><td>Farm</td> <td>PH</td><td>Public house</td> </tr> <tr> <td>Ho</td><td>House</td> <td>Sch</td><td>School</td> </tr> <tr> <td>MP</td><td>Milepost</td> <td>TH</td><td>Town Hall, Guildhall or equivalent</td> </tr> </table> | | Br | Bridge | MS | Milestone | Cemy | Cemetery | Mus | Museum | CG | Cattle grid | P | Post office | CH | Clubhouse | PC | Public convenience (in rural areas) | Fm | Farm | PH | Public house | Ho | House | Sch | School | MP | Milepost | TH | Town Hall, Guildhall or equivalent |
| Br | Bridge | MS | Milestone | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cemy | Cemetery | Mus | Museum | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CG | Cattle grid | P | Post office | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CH | Clubhouse | PC | Public convenience (in rural areas) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fm | Farm | PH | Public house | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ho | House | Sch | School | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MP | Milepost | TH | Town Hall, Guildhall or equivalent | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Figure 13



The key for this figure is on page 11

Turn over ►

Figure 14a

Rainfall, 2012

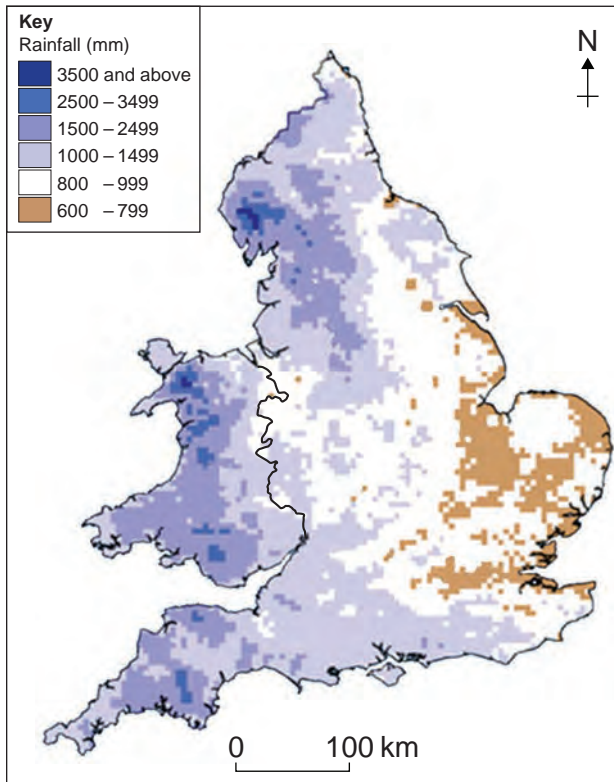


Figure 14b

Population density, 2011

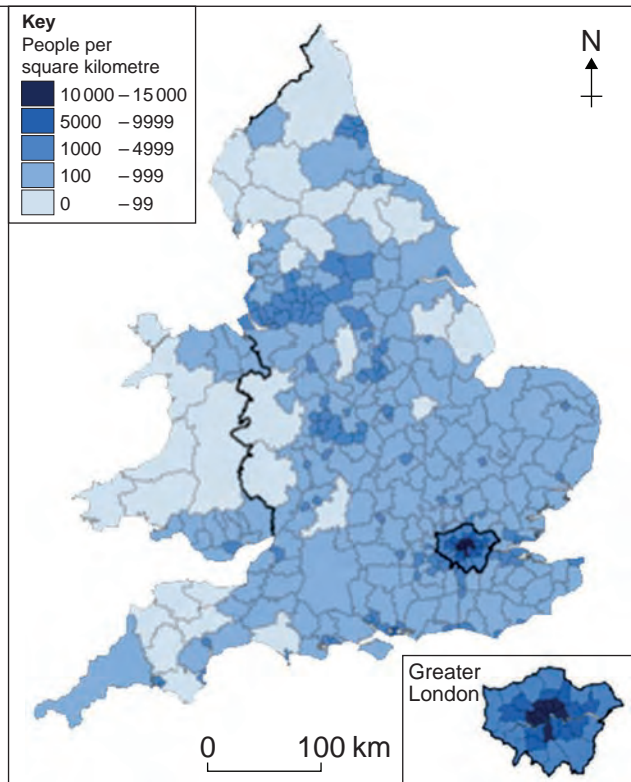


Figure 15



Figure 17a

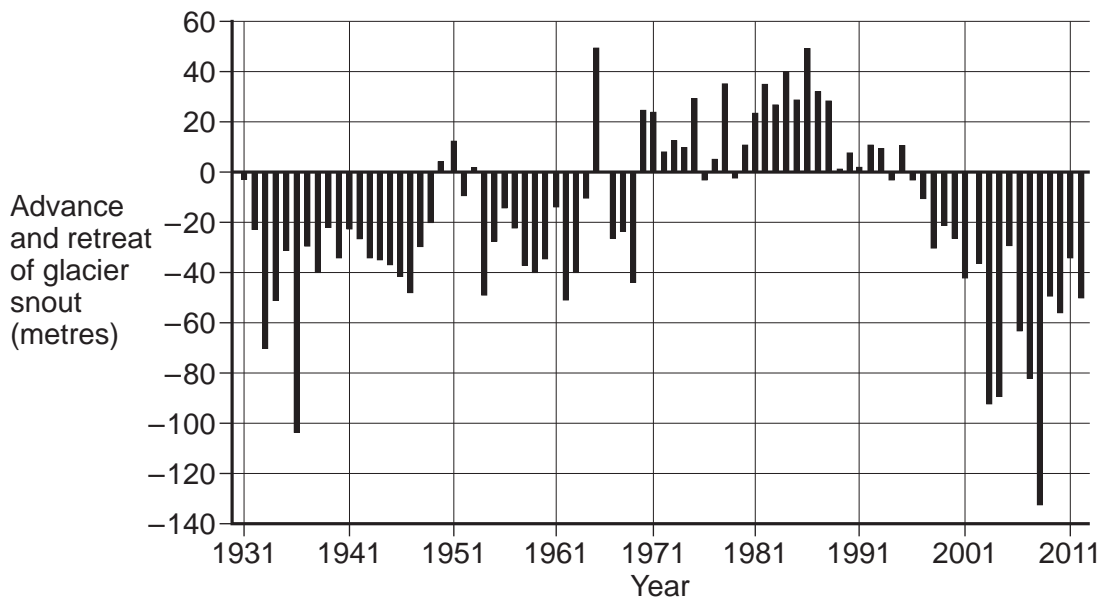


Figure 17b

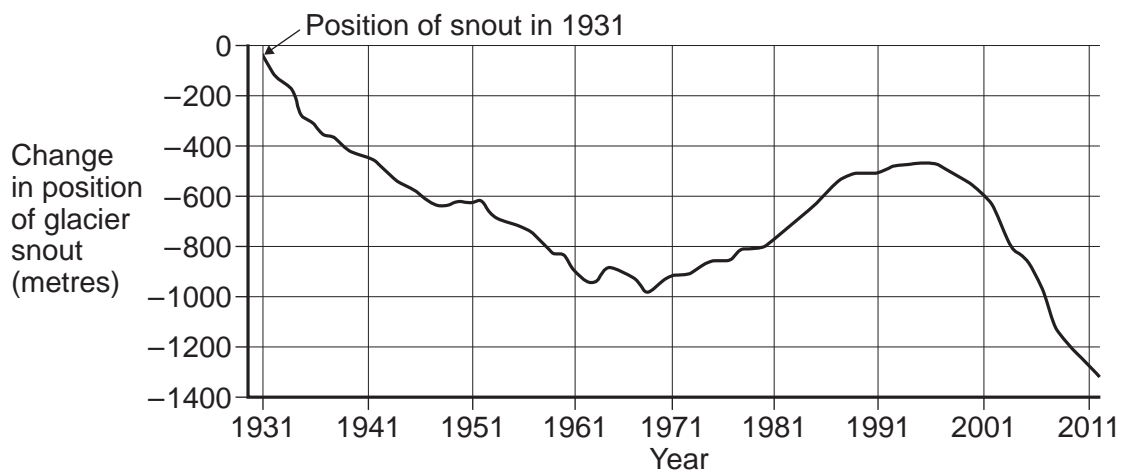
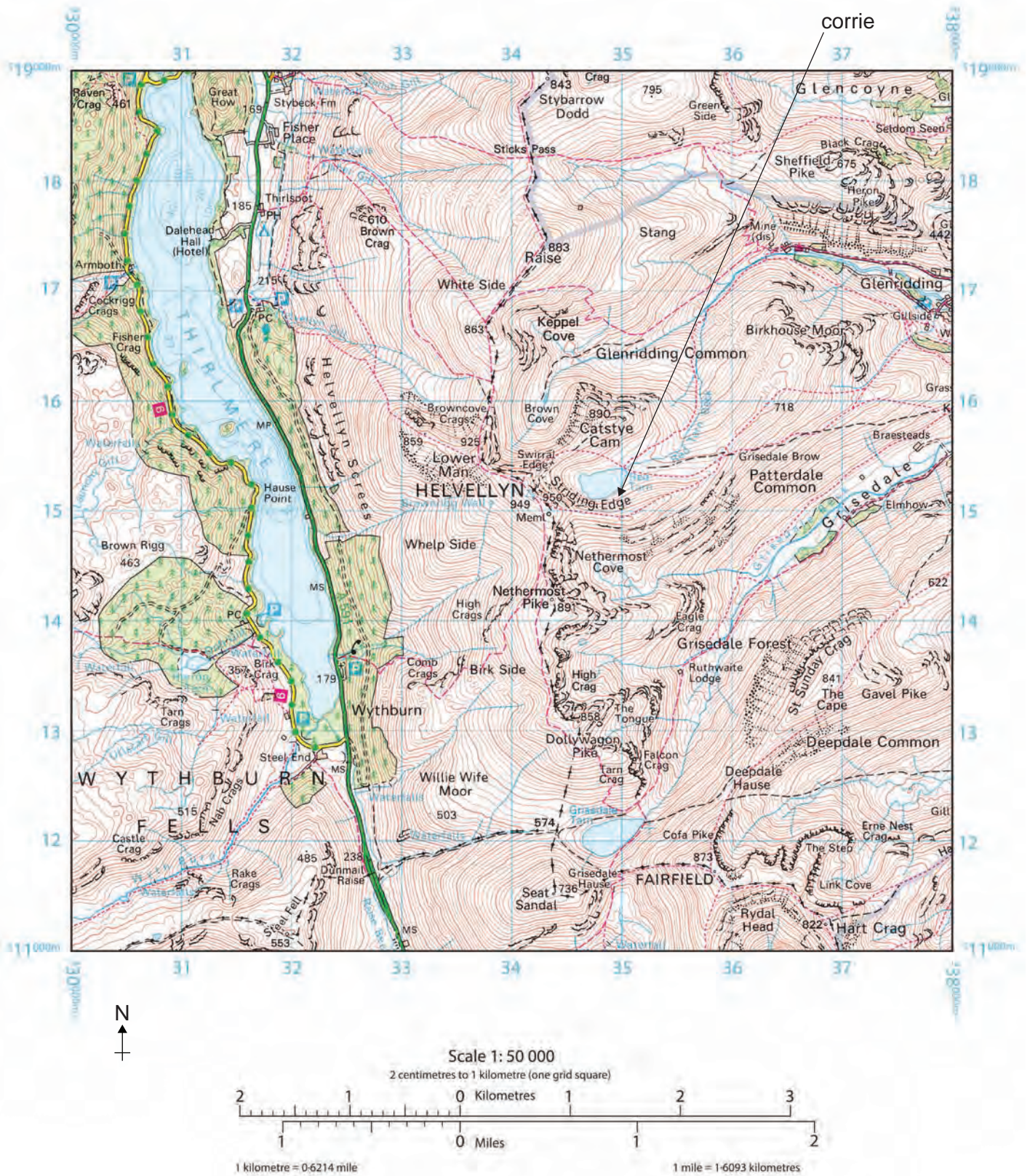


Figure 18



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Figure 21



Figure 23



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