Royal Geographical Society with IBG

Advancing geography and geographical learning

The Temperate Woodland Ecosystem

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Objectives

To gain an appreciation of a real-world ecological system

To create a new form of data presentation

To be able to extrapolate data to suit new geographical scenarios

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Where is Parkhurst Forest?

Nuffield Foundation

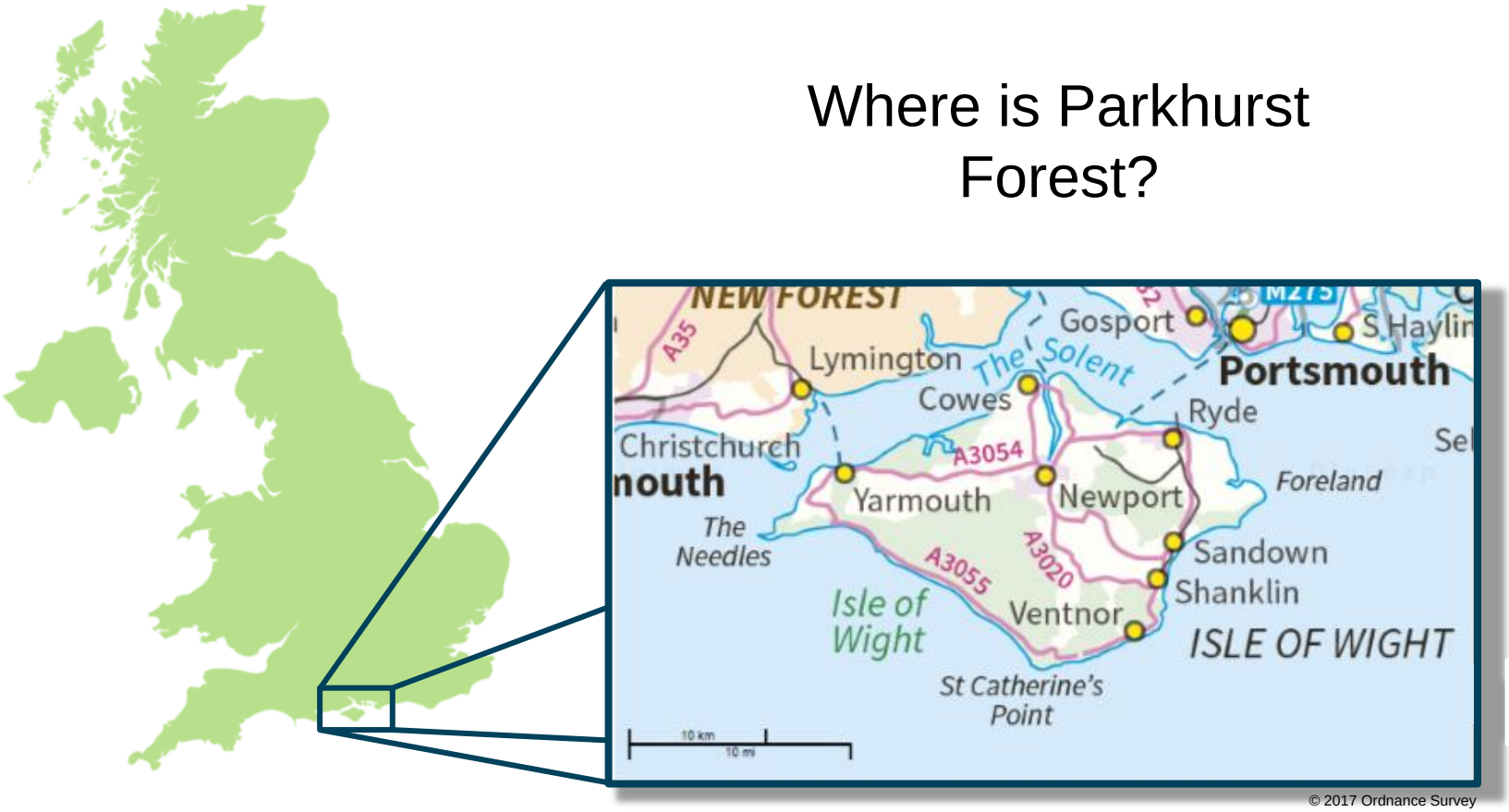
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Where is Parkhurst Forest?



© 2017 Ordnance Survey

Nuffield Foundation

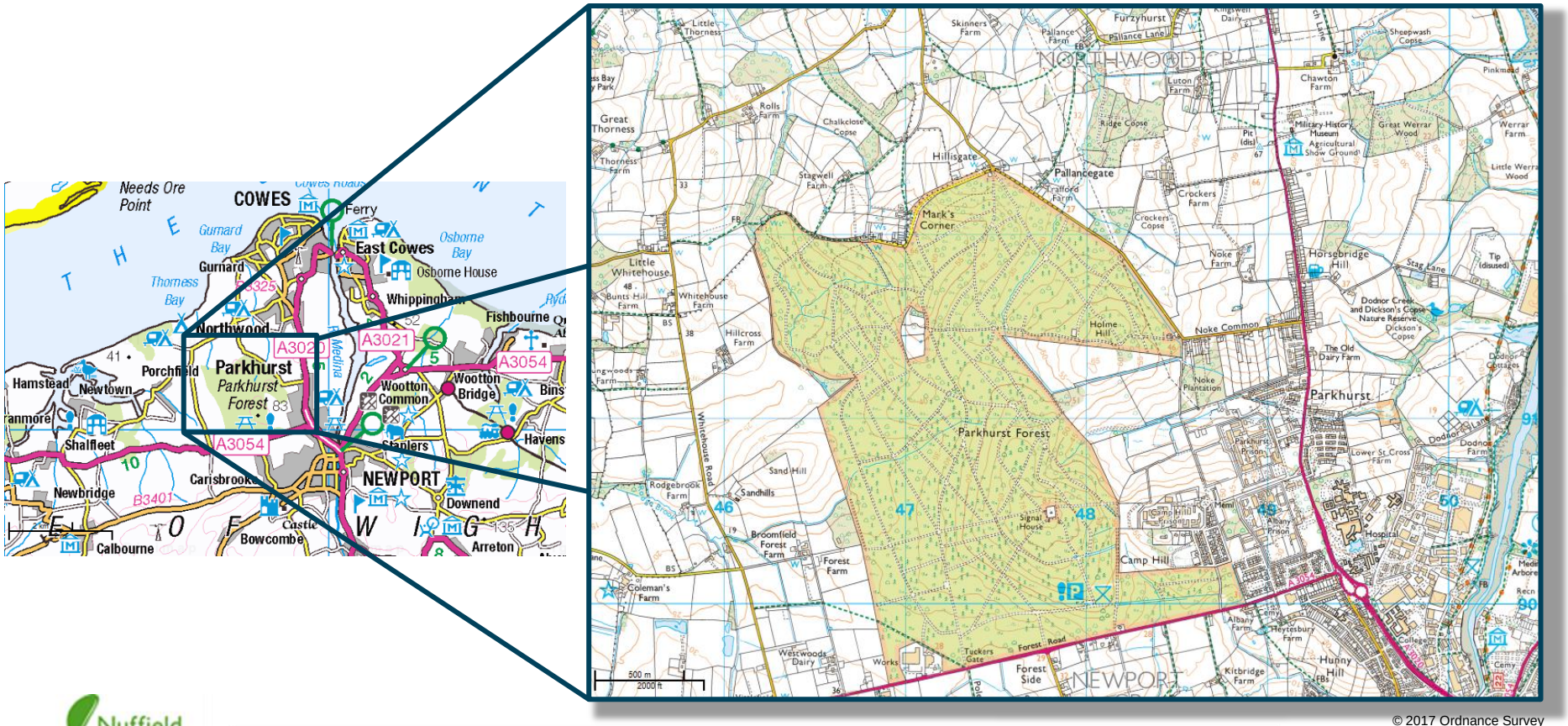
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Where is Parkhurst Forest?



© 2017 Ordnance Survey

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Describe the site and situation of Parkhurst Forest

What key points could be included in location description?

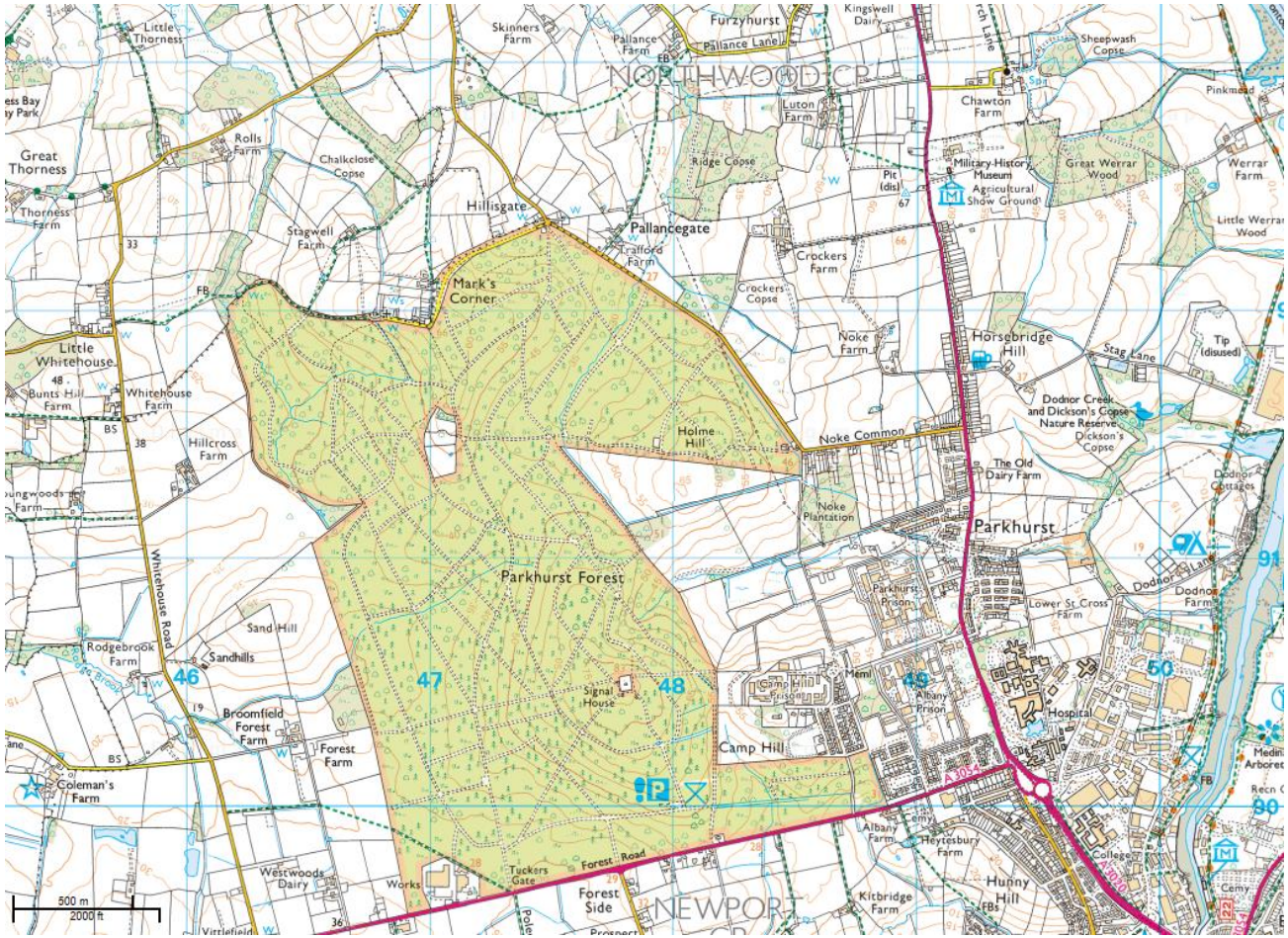
Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning



© 2017 Ordnance Survey

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

1. Name the main road that runs along the southern most edge of Parkhurst Forest

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

1. Name the main road that runs along the southern most edge of Parkhurst Forest

A3054

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

1. Name the main road that runs along the southern most edge of Parkhurst Forest

A3054

2. Give the four-figure grid reference for the large clearing, found within Parkhurst Forest

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

1. Name the main road that runs along the southern most edge of Parkhurst Forest

A3054

2. Give the four-figure grid reference for the large clearing, found within Parkhurst Forest

4791

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

3. Give the six-figure grid reference for Signal House, found within Parkhurst Forest

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

3. Give the six-figure grid reference for Signal House, found within Parkhurst Forest

478905

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

3. Give the six-figure grid reference for Signal House, found within Parkhurst Forest

478905

4. How many metres above sea level is Signal House?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

3. Give the six-figure grid reference for Signal House, found within Parkhurst Forest

478905

4. How many metres above sea level is Signal House?

83m

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

5. What is the straight-line distance from the most northerly point in Parkhurst Forest to its most southerly point?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

5. What is the straight-line distance from the most northerly point in Parkhurst Forest to its most southerly point?

3.1km

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

5. What is the straight-line distance from the most northerly point in Parkhurst Forest to its most southerly point?

3.1km

6. What is the shortest distance possible between Parkhurst Forest and the River Medina?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

5. What is the straight-line distance from the most northerly point in Parkhurst Forest to its most southerly point?

3.1km

6. What is the shortest distance possible between Parkhurst Forest and the River Medina?

1.3km

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

7. What is found in grid square 4789 that may have an impact on the ecology in Parkhurst Forest?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

7. What is found in grid square 4789 that may have an impact on the ecology in Parkhurst Forest?

Works / Industrial Site

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

7. What is found in grid square 4789 that may have an impact on the ecology in Parkhurst Forest?

Works / Industrial Site

8. If you were to walk from the top of Holme Hill to Camp Hill Prison, what bearing would you have taken?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

7. What is found in grid square 4789 that may have an impact on the ecology in Parkhurst Forest?

Works / Industrial Site

8. If you were to walk from the top of Holme Hill to Camp Hill Prison, what bearing would you have taken?

156°

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

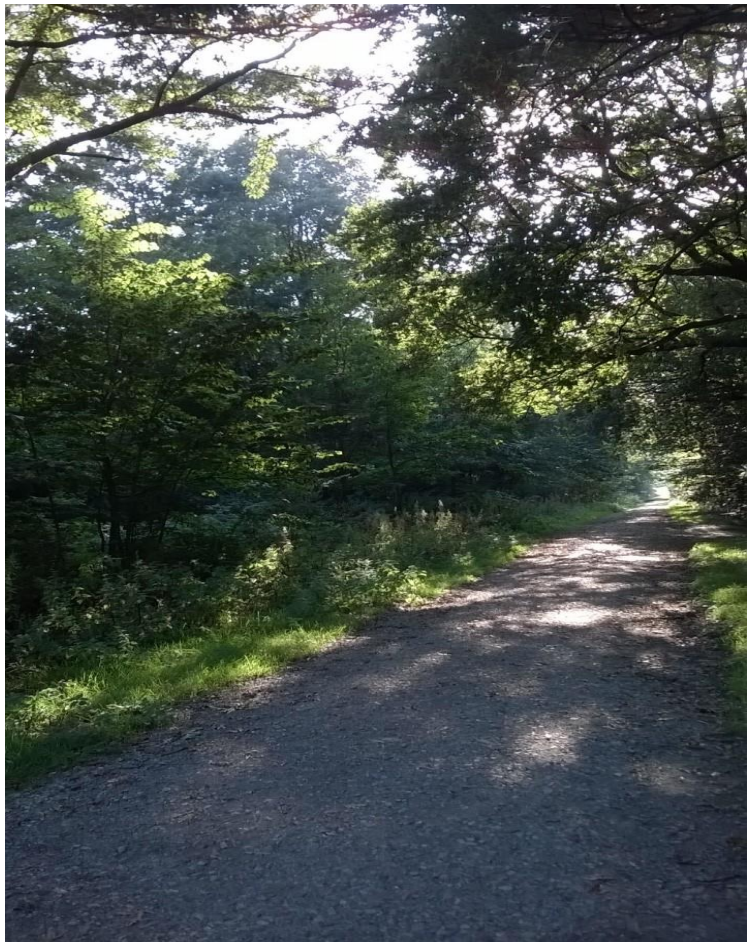
Royal Geographical Society with IBG

Advancing geography and geographical learning

An Introduction to Parkhurst Forest

Parkhurst Forest is an area of mixed temperate woodland on the Isle of Wight.

The forest is one of the oldest in the UK, with records showing its use as a royal hunting forest in medieval times. The forest is now managed by the Forestry Commission.



Source: Chloe Searl

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Source: Steve Childs (CC-BY-2.0)

Pearl bordered Fritillary

Source: Chloe Searl

The 395 hectare site, which includes 3 hectares of meadow in the centre of the forest, is unusually wild given its proximity to the centre of Newport, the county town of the Isle of Wight.

The forest contains a large Napoleonic oak plantation and several significant areas of pine trees, home to a large proportion of the Island's 3,500 red squirrel population. Parkhurst Forest also provides a habitat for nationally rare species of butterfly and lichen.

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

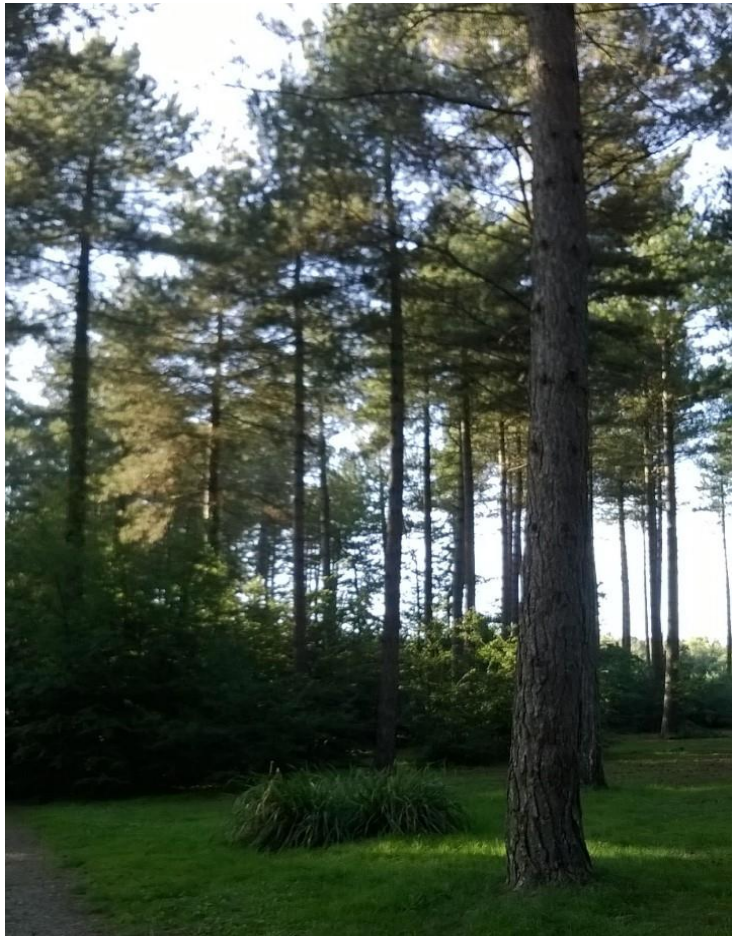
The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

The forest is an important part of the tourism portfolio of the Island, and is well used by islanders and visitors.

Vandalism, fires and fly-tipping do occur, but are relatively infrequent given the size and popularity of the forest.



Source: Chloe Searl

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

What is discrete data?

Discrete data is that which can only be measured using a specific numerical value.

What is continuous data?

Continuous data can (in theory) take any value and continue to an infinite number.

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Discrete or Continuous?

Age

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Discrete or Continuous?

Age

Continuous

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Discrete or Continuous?

Number of something

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Discrete or Continuous?

Number of something

Discrete

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Discrete or Continuous?

Temperature

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Discrete or Continuous?

Temperature

Continuous

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Discrete or Continuous?

Velocity

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Discrete or Continuous?

Velocity

Continuous

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Discrete or Continuous?

Percentage of something

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Discrete or Continuous?

Percentage of something

Discrete

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Discrete or Continuous?

Distance

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Discrete or Continuous?

Distance

Continuous

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

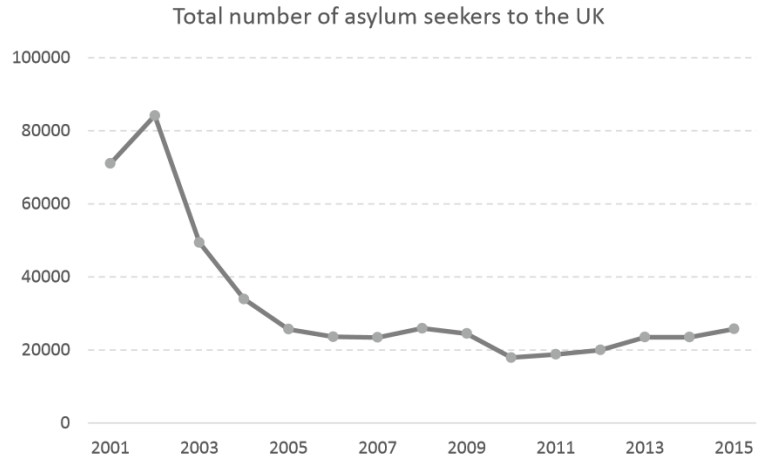
The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

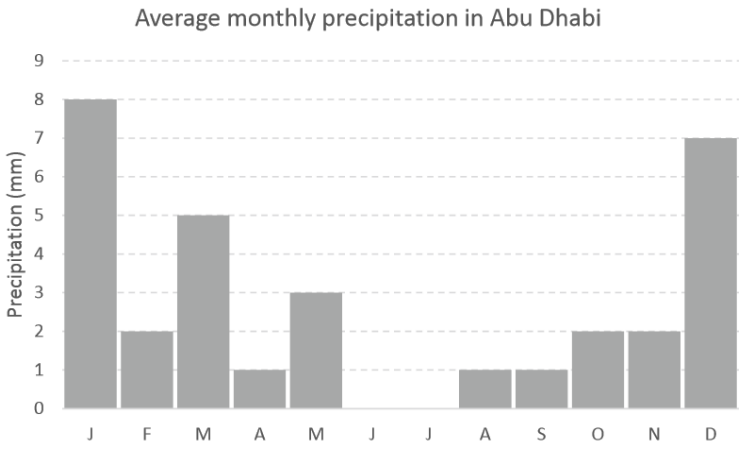
Advancing geography and geographical learning

When using discrete data avoid:

Line graphs



Histograms



Otherwise most other common forms of data presentation can be used.

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Species found in a temperate woodland

Species abundance	1980	2015
Tree A	2782	1803
Tree B	1554	1960
Tree C	996	1277
Tree D	631	620
Tree E	40	121
Tree F	16	57

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Species found in a temperate woodland

What type of data is this?

Species abundance	1980	2015
Tree A	2782	1803
Tree B	1554	1960
Tree C	996	1277
Tree D	631	620
Tree E	40	121
Tree F	16	57

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Species found in a temperate woodland

What type of data is this?

How might you present this data?

Species abundance	1980	2015
Tree A	2782	1803
Tree B	1554	1960
Tree C	996	1277
Tree D	631	620
Tree E	40	121
Tree F	16	57

Nuffield Foundation

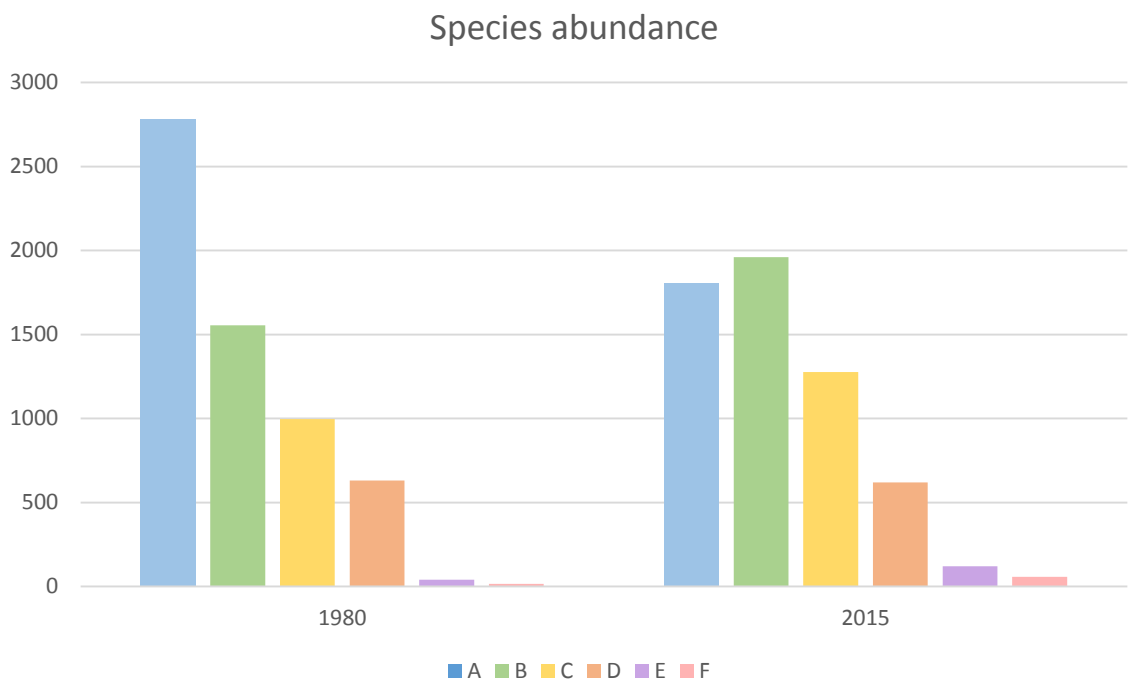
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

You could present the data in bar charts:



Nuffield Foundation

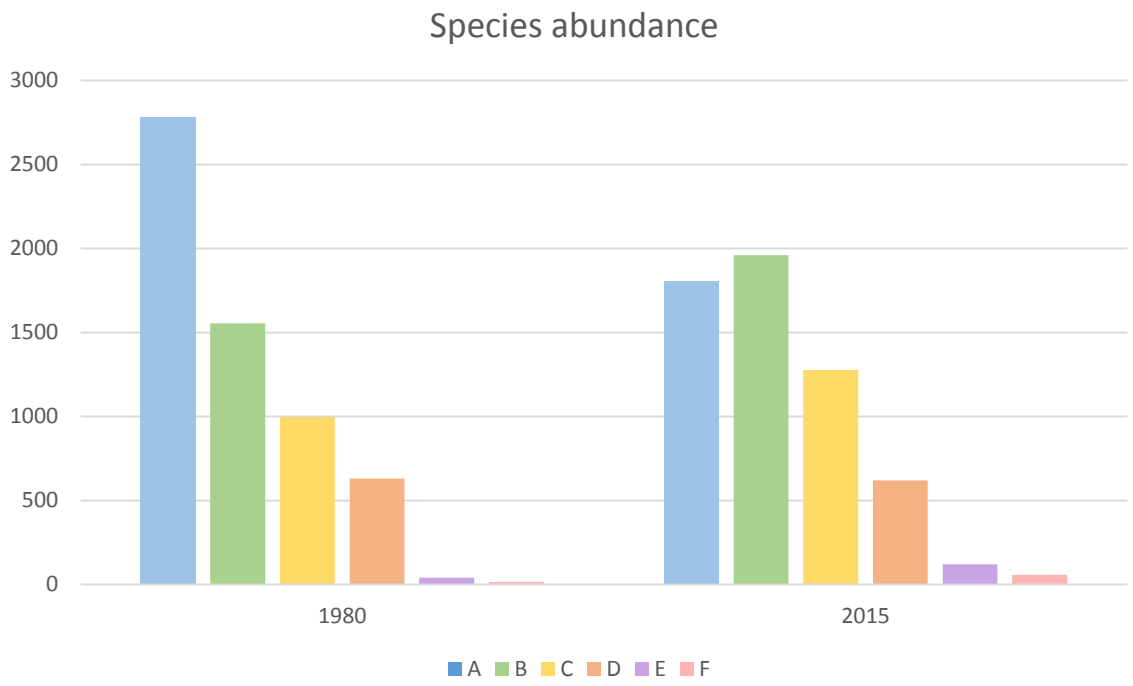
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

You could present the data in bar charts:



What problems can you see with this method?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

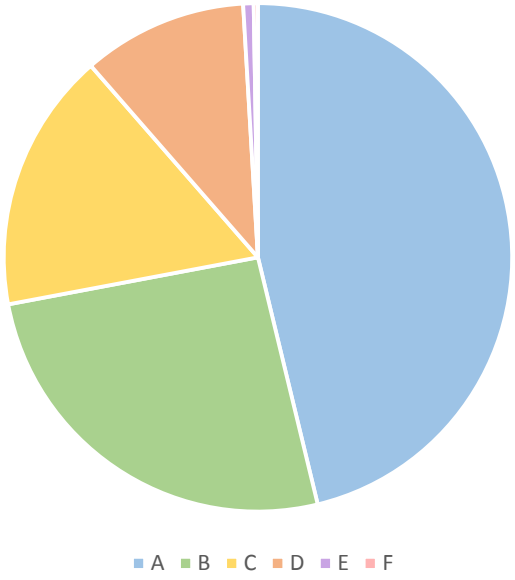
The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

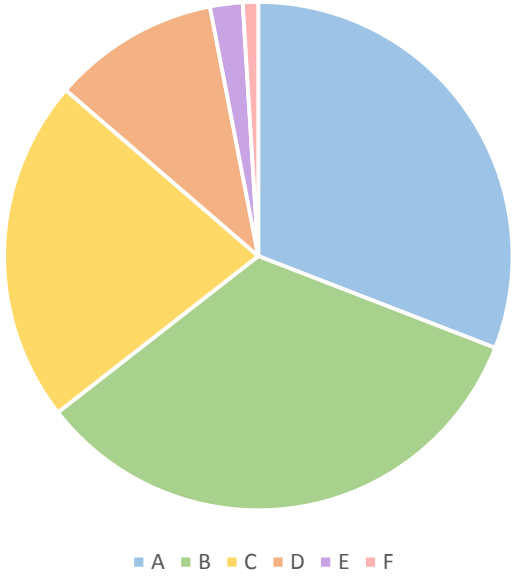
Advancing geography and geographical learning

You could present the data in pie charts:

Species abundance in 1980



Species abundance in 2015



Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

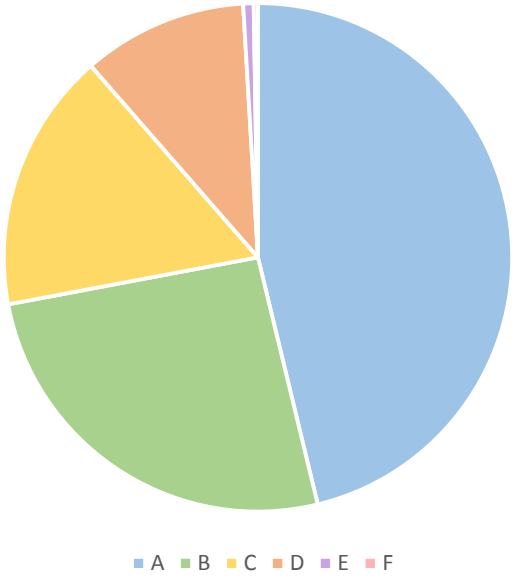
The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

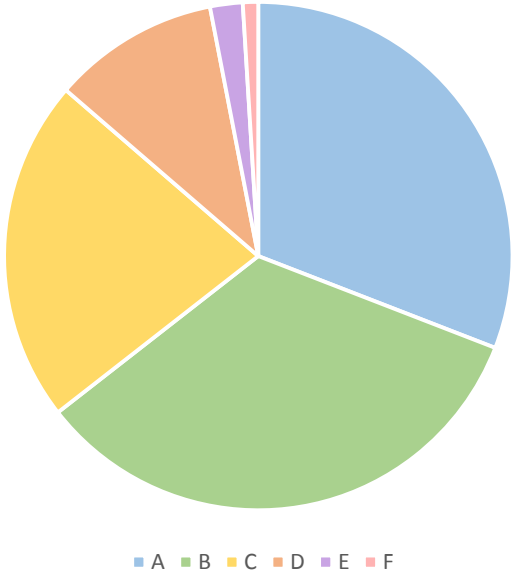
Advancing geography and geographical learning

You could present the data in pie charts:

Species abundance in 1980



Species abundance in 2015



What problems can you see with this method?

Nuffield Foundation

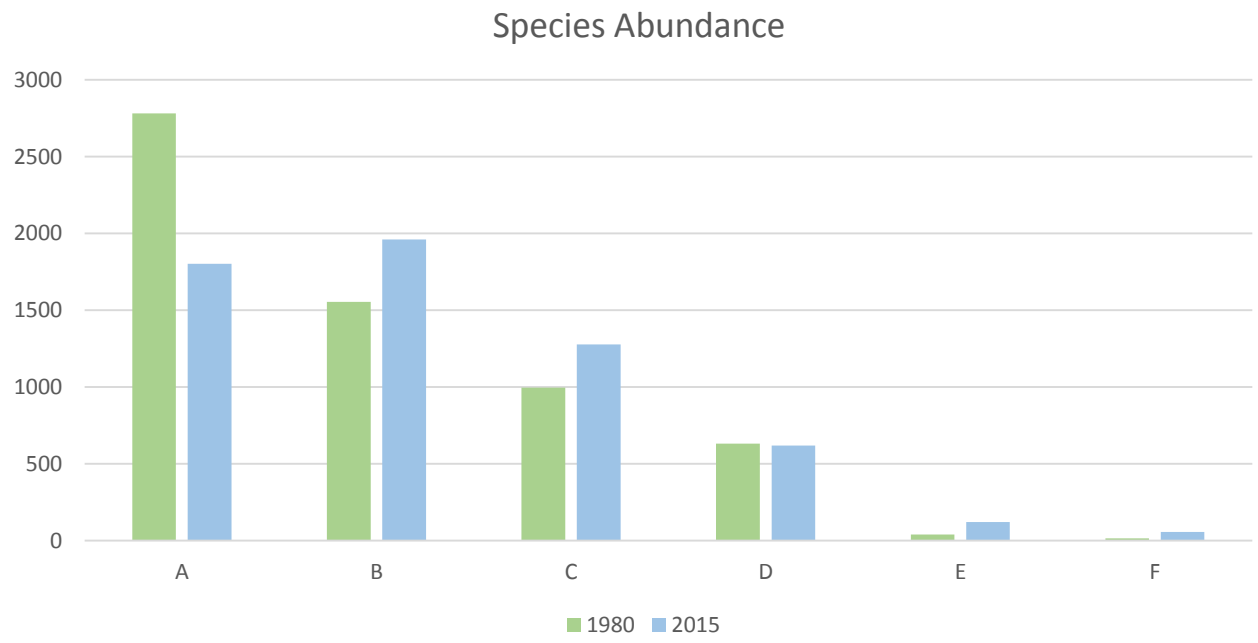
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

You could present the data in a comparative bar chart:



Nuffield Foundation

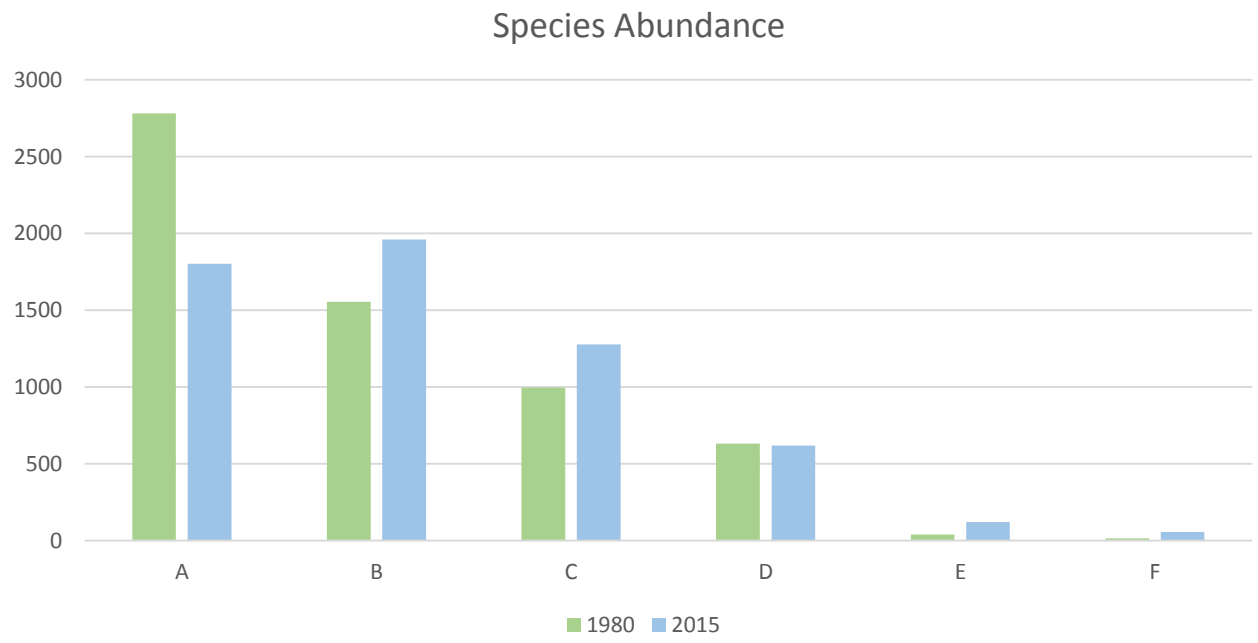
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

You could present the data in a comparative bar chart:



What problems can you see with this method?

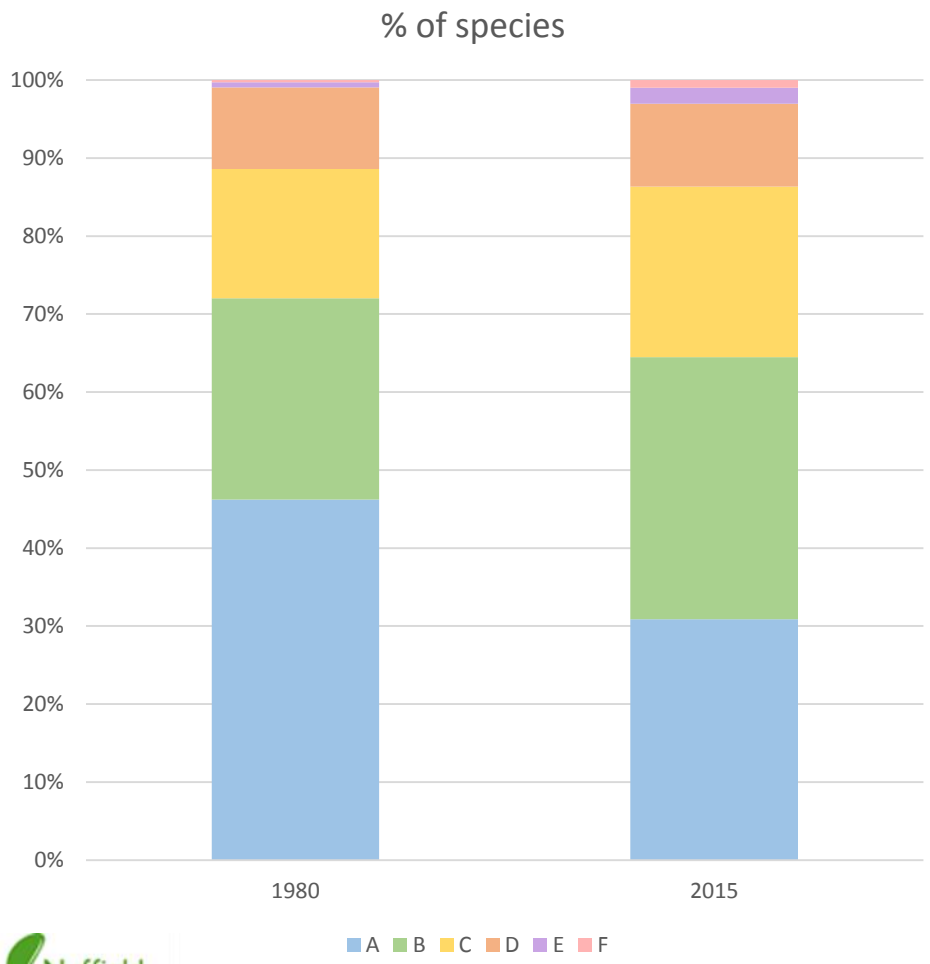
Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning



You could present the data in a composite bar chart:

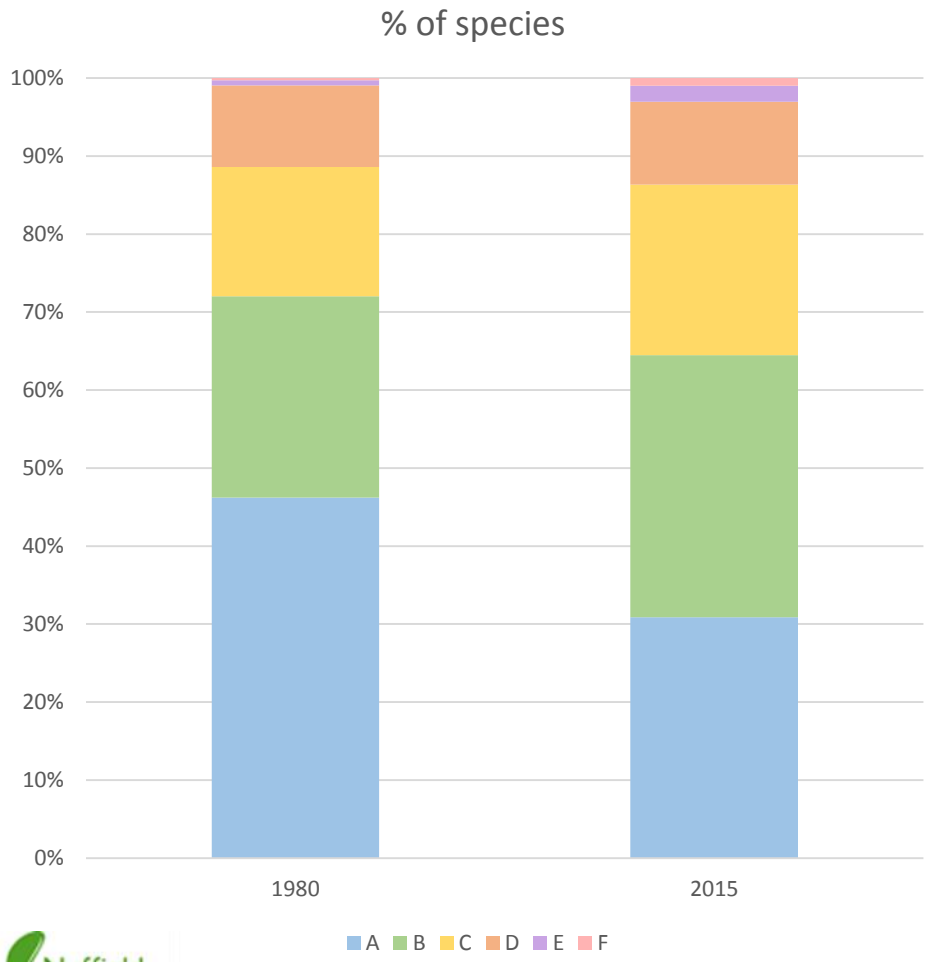
Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning



You could present the data in a composite bar chart:

What problems can you see with this method?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Parkhurst Forest is undergoing a conservation plan known as the '**Parkhurst Forest Design Plan**' (PFDP). It aims to bring more biodiversity into the woodland and retain its attraction for native red squirrels.

As part of the PFDP, a species and ground cover survey was conducted in 2005. It is hoped that in 2037, when the PFDP concludes, the species and ground cover will be very different.

Source: Hehaden (CC-BY-2.0)

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Species	% cover (2005)	% cover (2037)
Oak	32	36
Hazel	0	5
Beech	4	0
Scots and Corsican Pine	32	7
Other broadleaf species	9	30
Other conifer species	19	6
Grassland	0	5
Open space	4	11

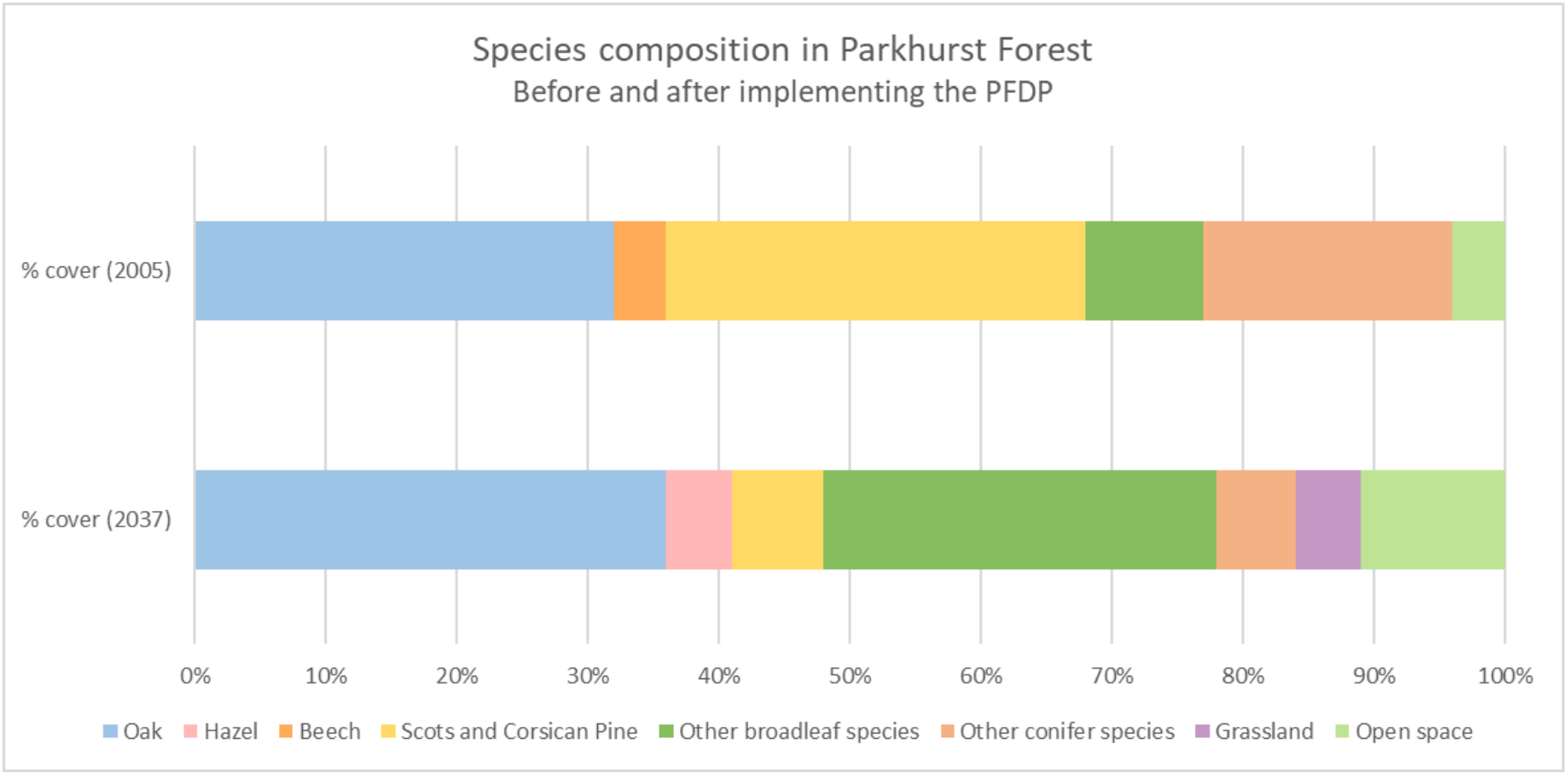
Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning



Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Acute Oak Decline

Acute Oak Decline is the general term given to a bacterial infection that affects thousands of trees across Southern England.

The bacteria infects the area directly under the bark of the tree, causing cracks to appear and stem fluid to ooze out.

Oak 'weeping' through bacterial infection

Source: Ken-ichi Ueda CC BY-NC 2.0

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

A rise in the numbers of Oak Jewel Beetles, that lay their eggs under the bark of the trees is thought to have increased the number of affected trees, possibly due to the beetle becoming a means for the bacteria to spread between trees.

Acute Oak Decline causes the tree to become starved of nutrients and once infected the tree sees a rapid decline, often resulting in death.

Defra is currently undertaking a £1.1 million research project into Acute Oak Decline.

Oak Jewel Beetle

Source: Nigel Jones CC BY-NC-ND 2.0

Nuffield Foundation

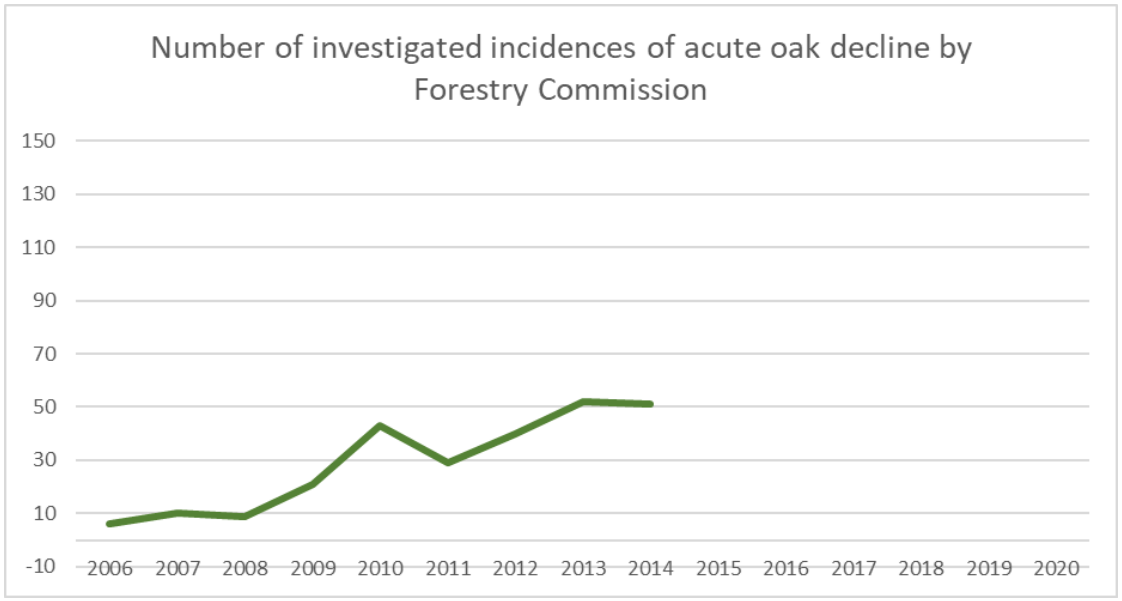
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

What is extrapolation?



To extrapolate is to estimate an extension of the existing data based on the pattern that data is currently displaying.

This is often represented by a dotted line for something that will happen in the future.

Nuffield Foundation

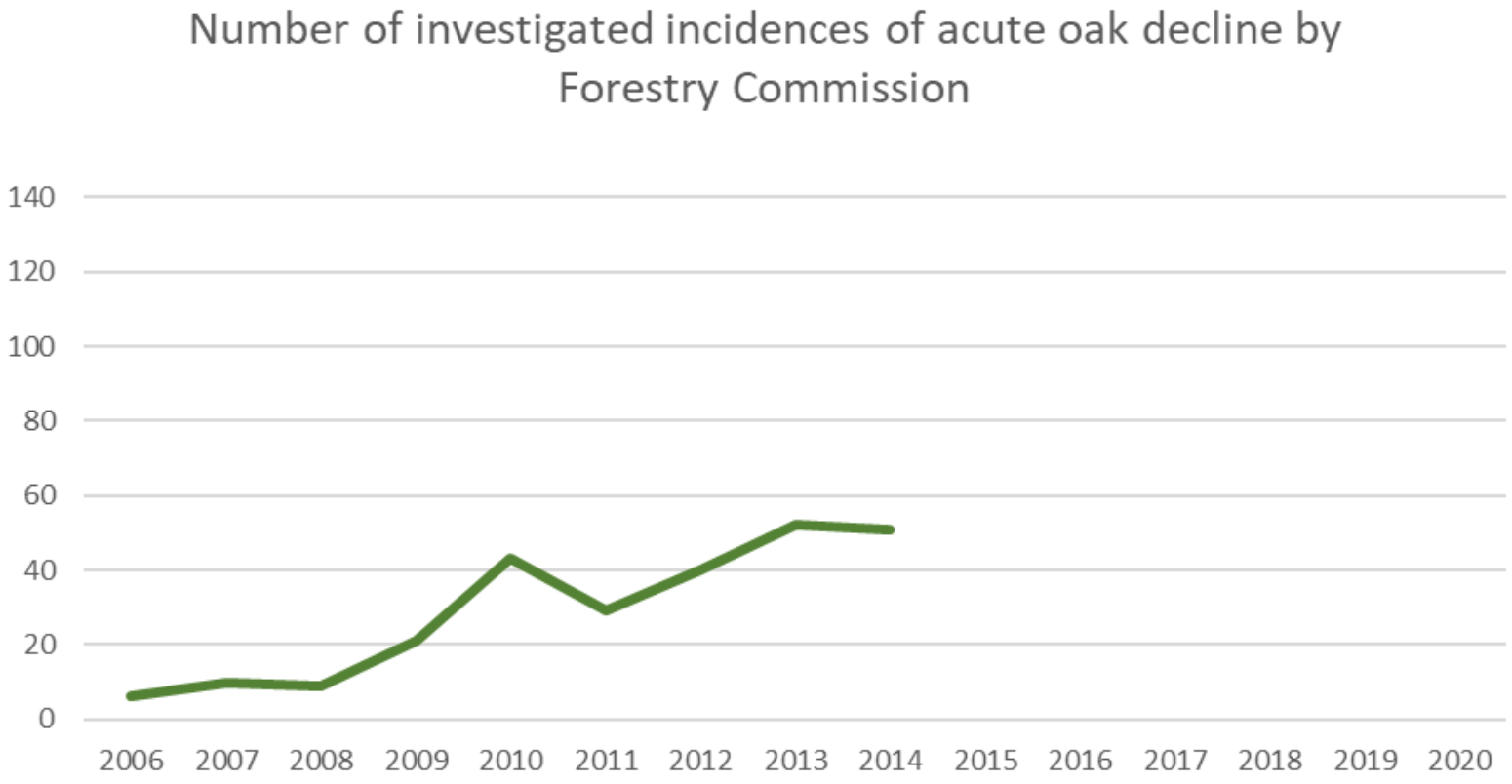
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

How would you extrapolate this data?



Nuffield Foundation

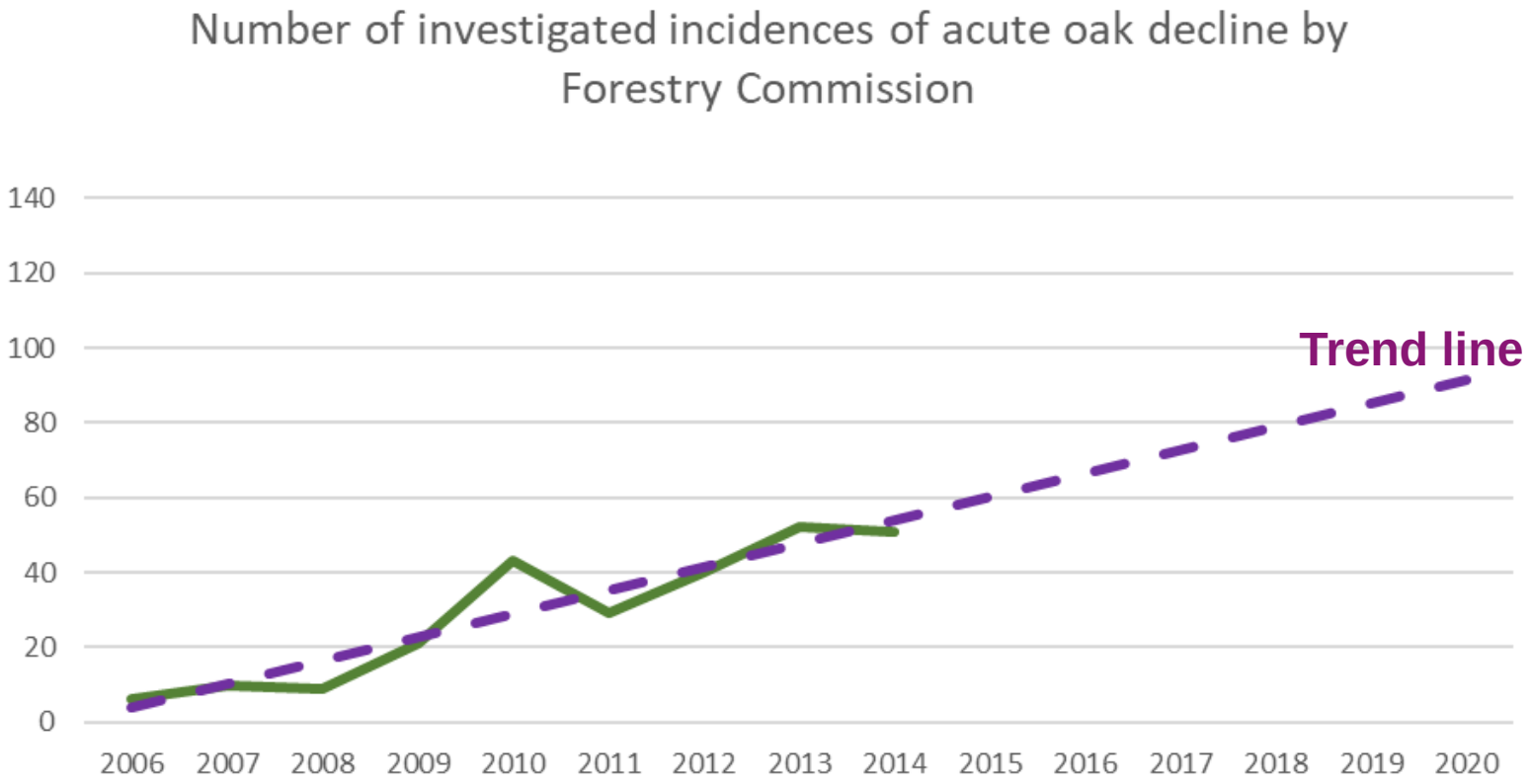
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

How would you extrapolate this data?



Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

If Acute Oak Decline was detected in this woodland what would happen to each species?

Think about

- **Food webs and how species interact with each other**
- **The shape of the line of you draw (does it have to be straight?)**

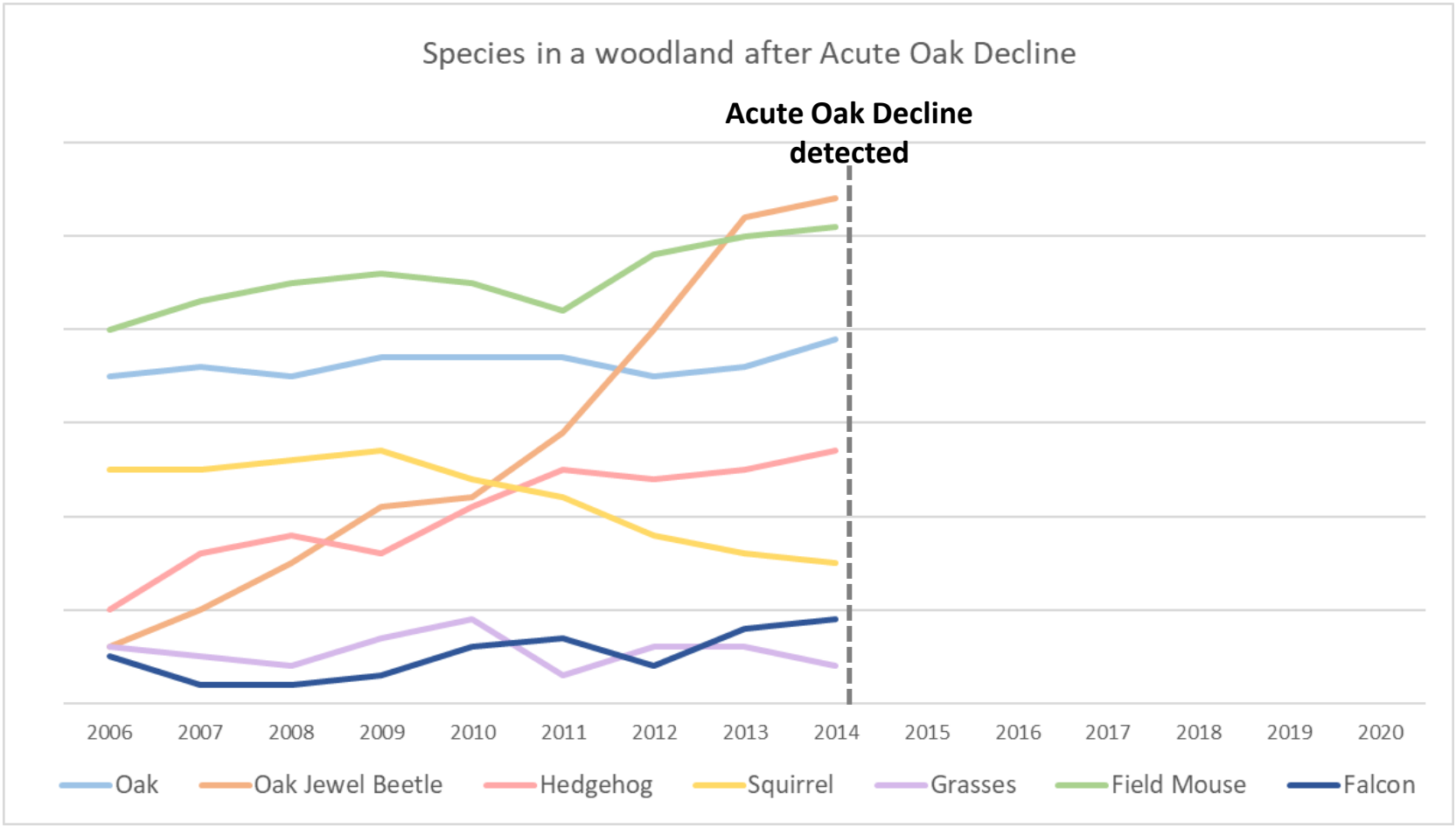
Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning



Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

Royal Geographical Society with IBG

Advancing geography and geographical learning

Location of Parkhurst Forest

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Where is Parkhurst Forest?

Nuffield Foundation

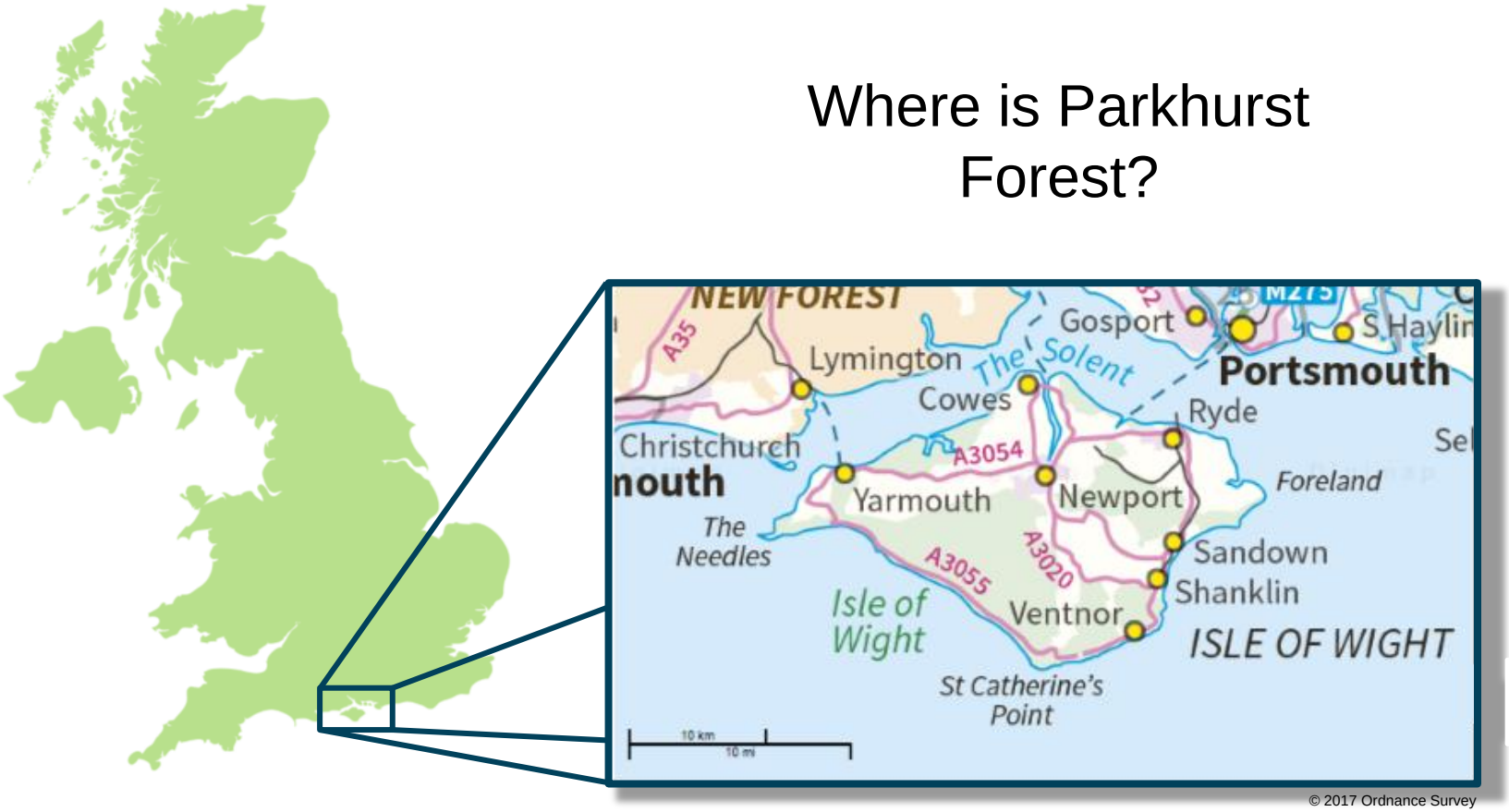
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Where is Parkhurst Forest?



© 2017 Ordnance Survey

Nuffield Foundation

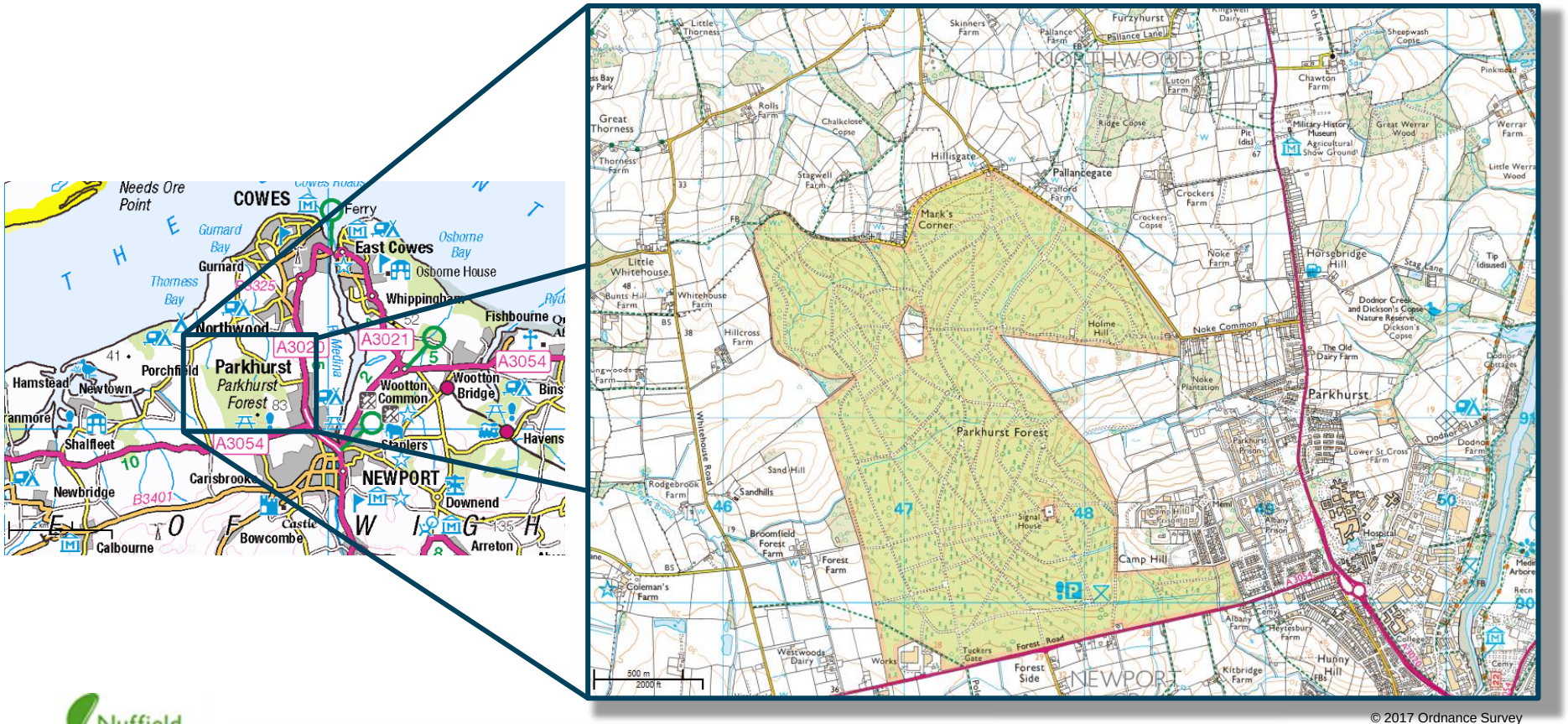
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Where is Parkhurst Forest?



© 2017 Ordnance Survey

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Describe the site and situation of Parkhurst Forest

What key points could be included in location description?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

Royal Geographical Society with IBG

Advancing geography and geographical learning

Woodland Map Skills

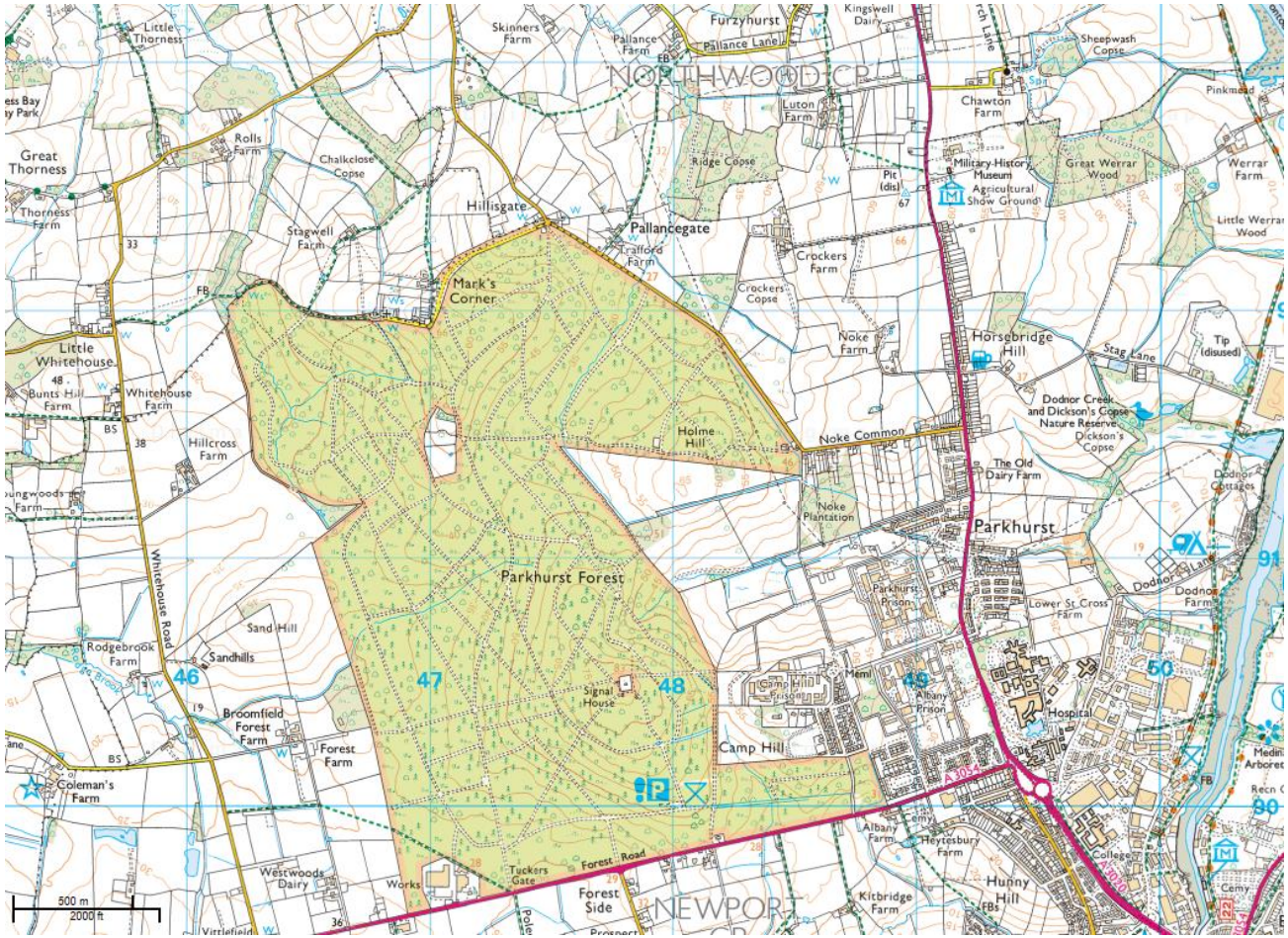
Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning



Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

1. Name the main road that runs along the southern most edge of Parkhurst Forest

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

1. Name the main road that runs along the southern most edge of Parkhurst Forest

A3054

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

1. Name the main road that runs along the southern most edge of Parkhurst Forest

A3054

2. Give the four-figure grid reference for the large clearing, found within Parkhurst Forest

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

1. Name the main road that runs along the southern most edge of Parkhurst Forest

A3054

2. Give the four-figure grid reference for the large clearing, found within Parkhurst Forest

4791

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

3. Give the six-figure grid reference for Signal House, found within Parkhurst Forest

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

3. Give the six-figure grid reference for Signal House, found within Parkhurst Forest

478905

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

3. Give the six-figure grid reference for Signal House, found within Parkhurst Forest

478905

4. How many metres above sea level is Signal House?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

3. Give the six-figure grid reference for Signal House, found within Parkhurst Forest

478905

4. How many metres above sea level is Signal House?

83m

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

5. What is the straight-line distance from the most northerly point in Parkhurst Forest to its most southerly point?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

5. What is the straight-line distance from the most northerly point in Parkhurst Forest to its most southerly point?

3.1km

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

5. What is the straight-line distance from the most northerly point in Parkhurst Forest to its most southerly point?

3.1km

6. What is the shortest distance possible between Parkhurst Forest and the River Medina?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

5. What is the straight-line distance from the most northerly point in Parkhurst Forest to its most southerly point?

3.1km

6. What is the shortest distance possible between Parkhurst Forest and the River Medina?

1.3km

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

7. What is found in grid square 4789 that may have an impact on the ecology in Parkhurst Forest?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

7. What is found in grid square 4789 that may have an impact on the ecology in Parkhurst Forest?

Works / Industrial Site

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

7. What is found in grid square 4789 that may have an impact on the ecology in Parkhurst Forest?

Works / Industrial Site

8. If you were to walk from the top of Holme Hill to Camp Hill Prison, what bearing would you have taken?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

7. What is found in grid square 4789 that may have an impact on the ecology in Parkhurst Forest?

Works / Industrial Site

8. If you were to walk from the top of Holme Hill to Camp Hill Prison, what bearing would you have taken?

156°

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

Royal Geographical Society with IBG

Advancing geography and geographical learning

Introduction to Parkhurst Forest

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

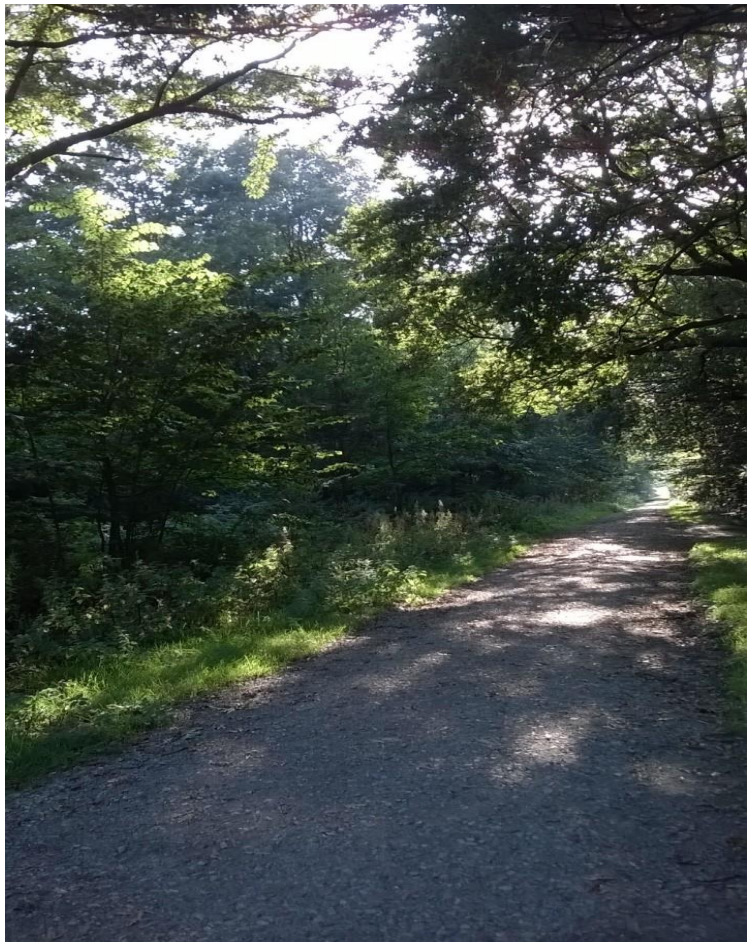
Royal Geographical Society with IBG

Advancing geography and geographical learning

An Introduction to Parkhurst Forest

Parkhurst Forest is an area of mixed temperate woodland on the Isle of Wight.

The forest is one of the oldest in the UK, with records showing its use as a royal hunting forest in medieval times. The forest is now managed by the Forestry Commission.



Source: Chloe Searl

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Source: Steve Childs (CC-BY-2.0)

Pearl bordered Fritillary

Source: Chloe Searl

The 395 hectare site, which includes 3 hectares of meadow in the centre of the forest, is unusually wild given its proximity to the centre of Newport, the county town of the Isle of Wight.

The forest contains a large Napoleonic oak plantation and several significant areas of pine trees, home to a large proportion of the Island's 3,500 red squirrel population. Parkhurst Forest also provides a habitat for nationally rare species of butterfly and lichen.

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

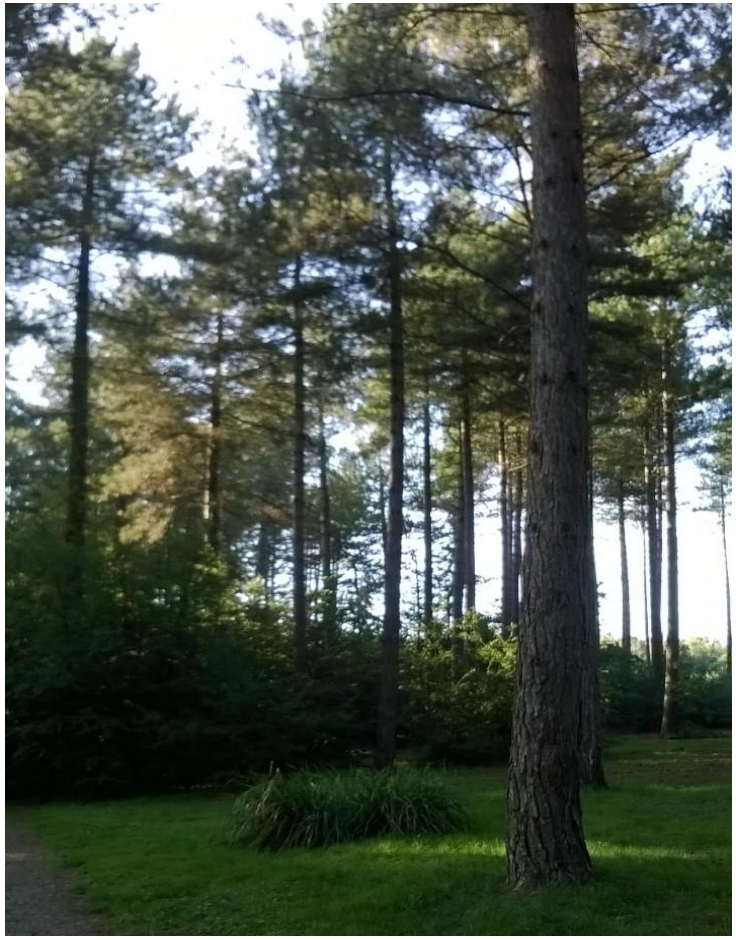
The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

The forest is an important part of the tourism portfolio of the Island, and is well used by islanders and visitors.

Vandalism, fires and fly-tipping do occur, but are relatively infrequent given the size and popularity of the forest.



Source: Chloe Searl

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

Royal Geographical Society with IBG

Advancing geography and geographical learning

Woodland Species Data

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Species found in a temperate woodland

Species abundance	1980	2015
Tree A	2782	1803
Tree B	1554	1960
Tree C	996	1277
Tree D	631	620
Tree E	40	121
Tree F	16	57

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Species found in a temperate woodland

What type of data is this?

Species abundance	1980	2015
Tree A	2782	1803
Tree B	1554	1960
Tree C	996	1277
Tree D	631	620
Tree E	40	121
Tree F	16	57

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Species found in a temperate woodland

What type of data is this?

How might you present this data?

Species abundance	1980	2015
Tree A	2782	1803
Tree B	1554	1960
Tree C	996	1277
Tree D	631	620
Tree E	40	121
Tree F	16	57

Nuffield Foundation

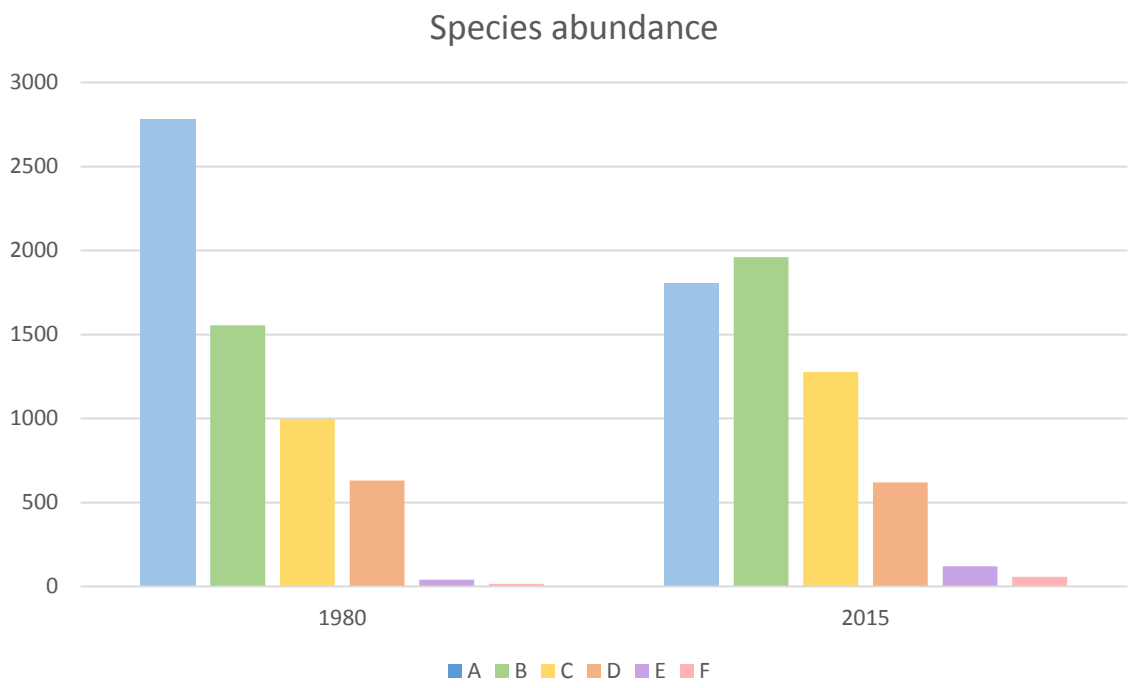
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

You could present the data in bar charts:



Nuffield Foundation

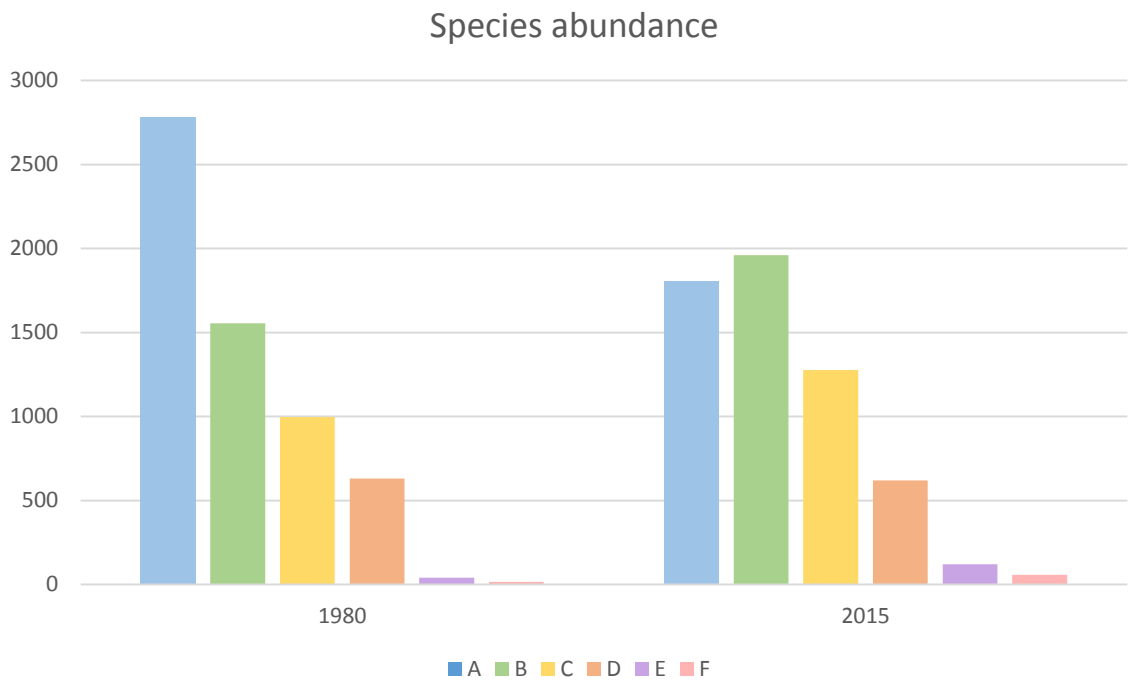
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

You could present the data in bar charts:



What problems can you see with this method?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

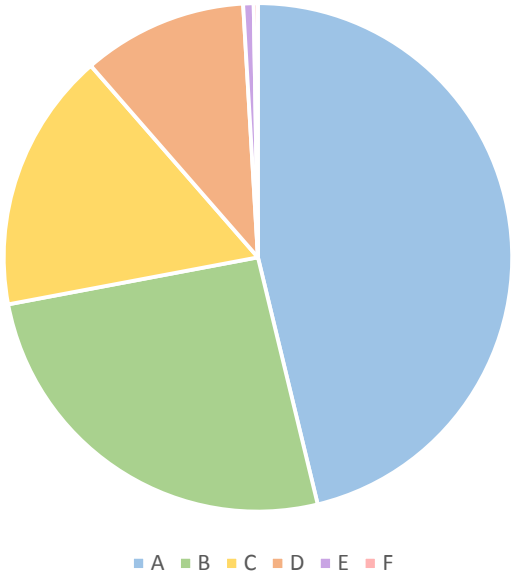
The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

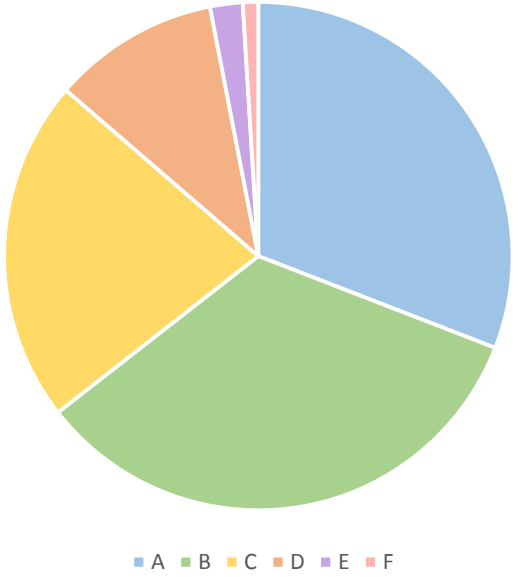
Advancing geography and geographical learning

You could present the data in pie charts:

Species abundance in 1980



Species abundance in 2015



Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

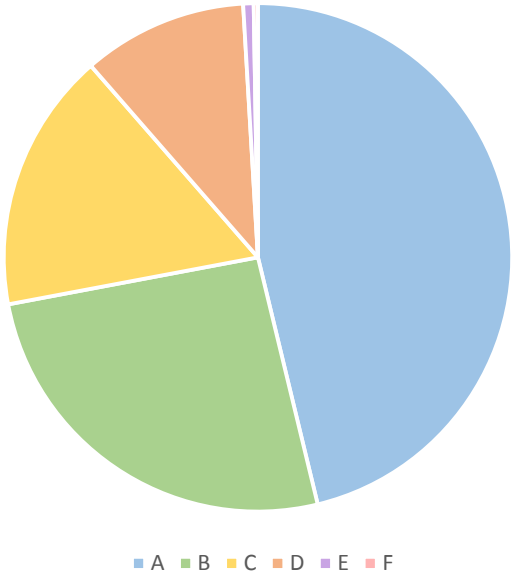
The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

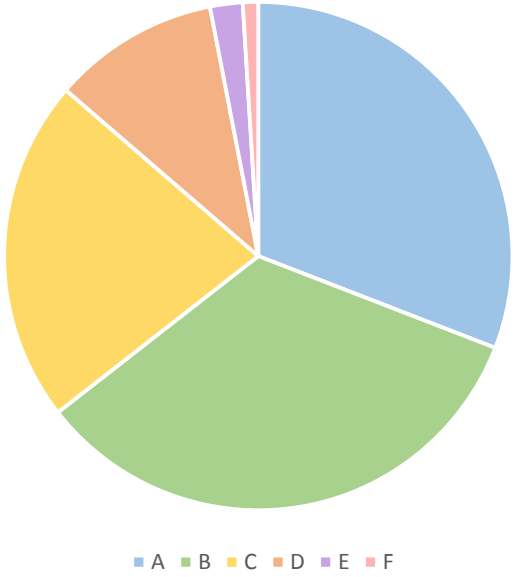
Advancing geography and geographical learning

You could present the data in pie charts:

Species abundance in 1980



Species abundance in 2015



What problems can you see with this method?

Nuffield Foundation

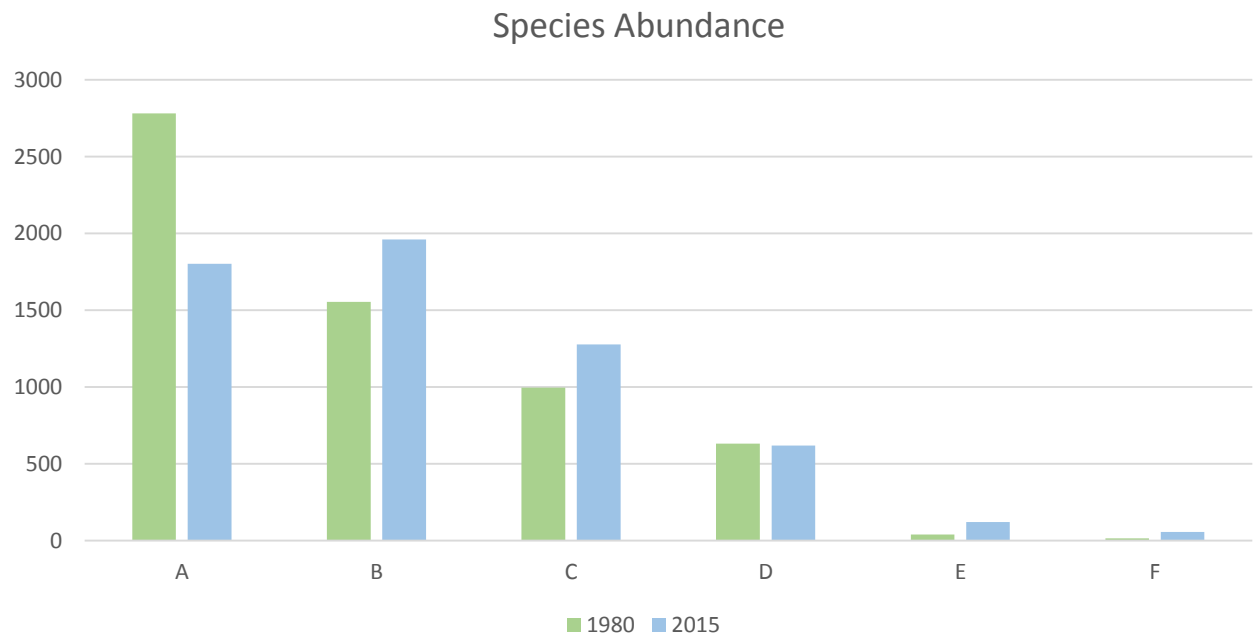
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

You could present the data in a comparative bar chart:



Nuffield Foundation

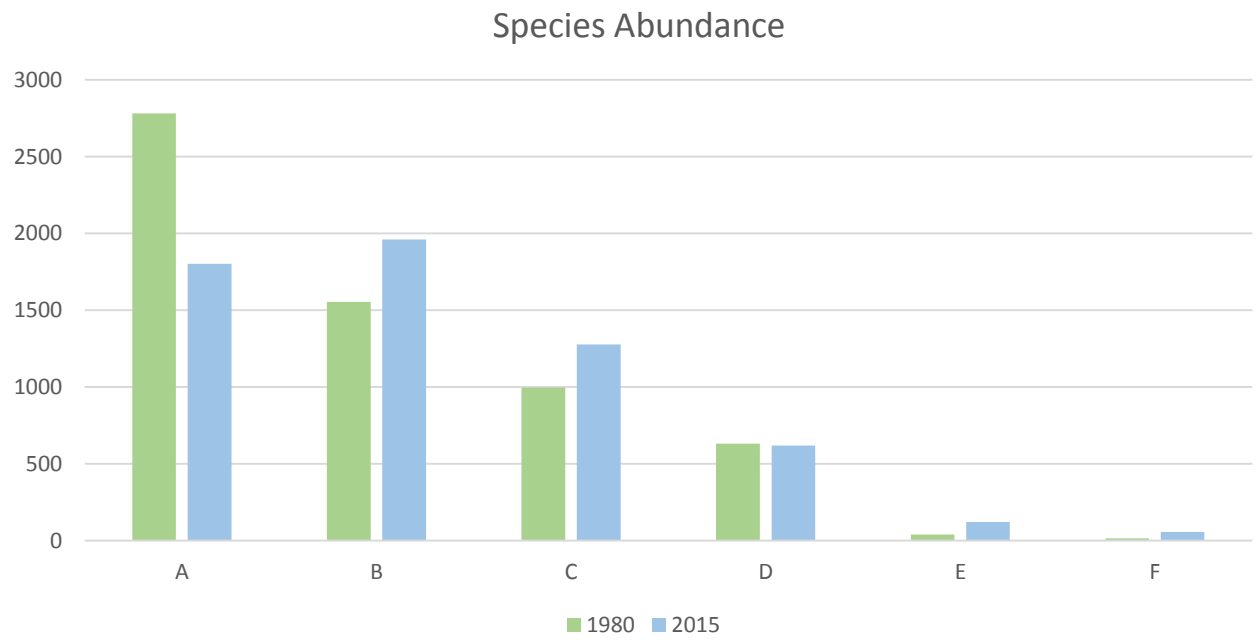
This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

You could present the data in a comparative bar chart:



What problems can you see with this method?

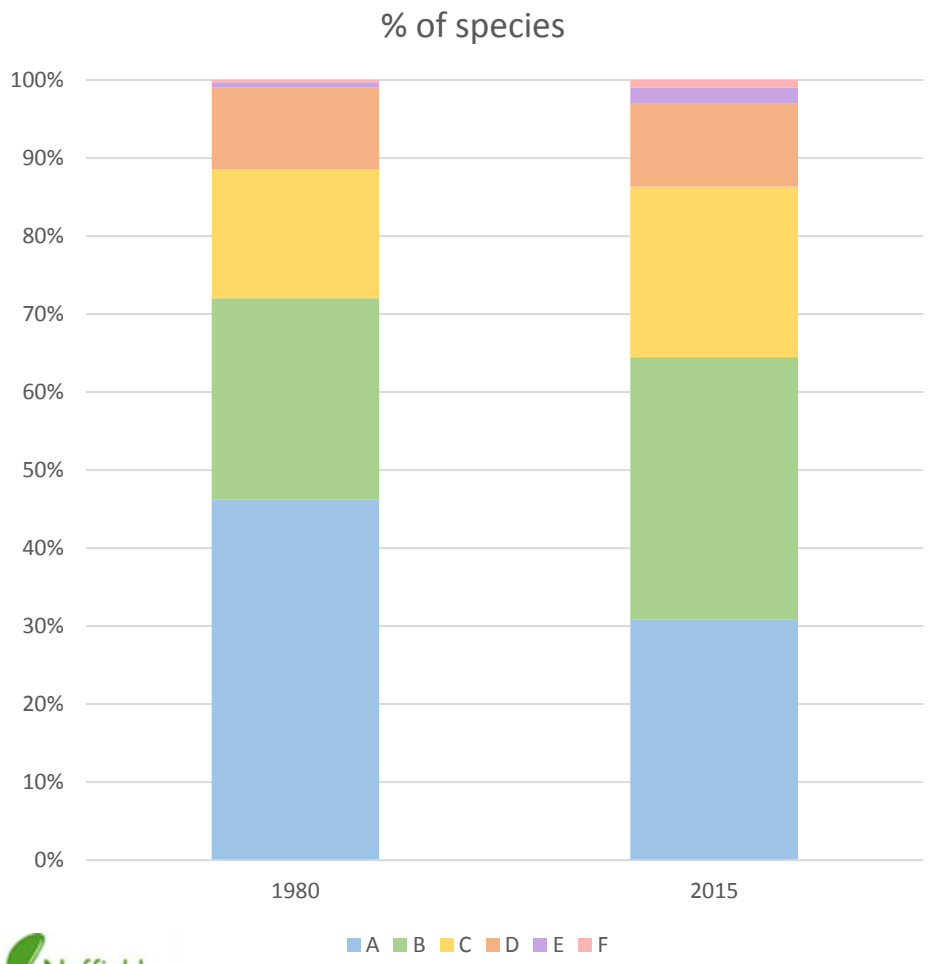
Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning



You could present the data in a composite bar chart:

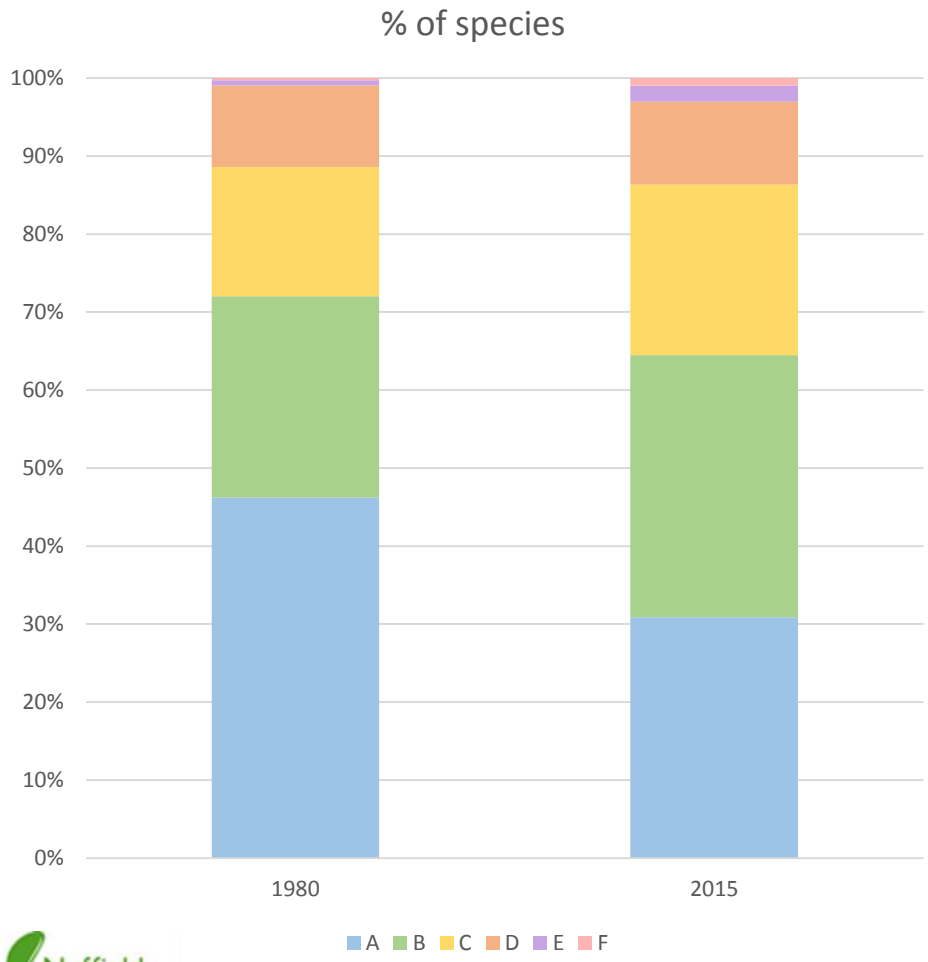
Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning



You could present the data in a composite bar chart:

What problems can you see with this method?

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

Royal Geographical Society with IBG

Advancing geography and geographical learning

Acute Oak Decline

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

Acute Oak Decline is the general term given to a bacterial infection that affects thousands of trees across Southern England.

The bacteria infects the area directly under the bark of the tree, causing cracks to appear and stem fluid to ooze out.

Oak ‘weeping’ through bacterial infection

Source: Ken-ichi Ueda CC BY-NC 2.0

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.

The Temperate Woodland Ecosystem

Royal Geographical Society with IBG

Advancing geography and geographical learning

A rise in the numbers of Oak Jewel Beetles, that lay their eggs under the bark of the trees is thought to have increased the number of affected trees, possibly due to the beetle becoming a means for the bacteria to spread between trees.

Acute Oak Decline causes the tree to become starved of nutrients and once infected the tree sees a rapid decline, often resulting in death.

Defra is currently undertaking a £1.1 million research project into Acute Oak Decline.

Oak Jewel Beetle

Source: Nigel Jones CC BY-NC-ND 2.0

Nuffield Foundation

This project was funded by the Nuffield Foundation, but the views expressed are those of the authors and not necessarily those of the Foundation.