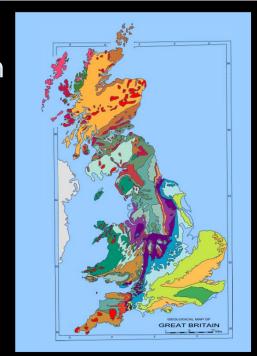
A Geological History of Britain



Dr Liam Herringshaw lgh865@hotmail.com

Blurb

"Britain is home of the science of geology. From staggeringly ancient rocks in north-west Scotland to the ice age sediments of south-eastern England, the UK preserves almost 3 billion years of Earth history. In this course we will delve into the prehistory of Britain, showing how life here evolved, how our climate and environment has changed, and how Scotland was once on a separate continent."

Course structure?

3 billion years of British geology
10 classes

= 300 million years per class?

Perhaps not...

= 8 classes on Precambrian

1 class on Ediacaran + Cambrian + Ordovician + Silurian + Devonian + Carboniferous

1 class on Permian + Triassic + Jurassic + Cretaceous + Palaeogene + Neogene

Course structure

- 1. Intro & Overview
- 2. Precambrian-Cambrian of Scotland
- 3. Precambrian-Cambrian of England & Wales
- 4. Ordovician-Silurian

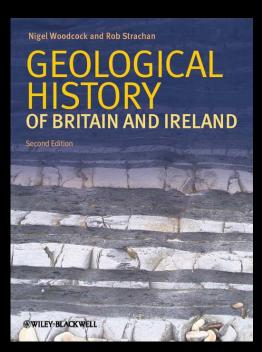
- 5. Devonian
- 6. Carboniferous
- 7. Permo-Triassic
- 8. Jurassic
- 9. Cretaceous
- 10. Palaeogene-Neogene

Reference texts

Geological History of Britain and Ireland

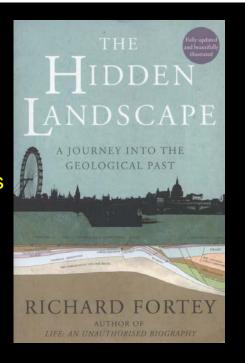
Nigel Woodcock & Rob Strachan (eds)

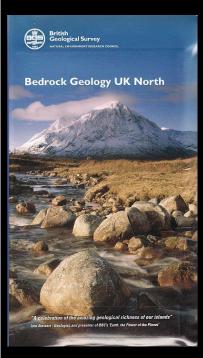
2000 paperback; new 2012 hardback



Reference texts

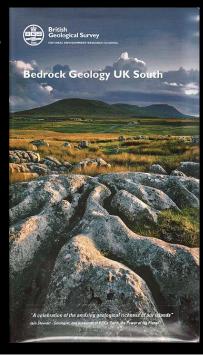
The Hidden Landscape Richard Fortey 1993 and 2010 versions





Maps

BGS 2007





Class format

Each week:

- 1. Focus on particular geological period
 - Distribution
 - Environments
 - Researchers
 - Role in history of Britain
- 2. Case study
- 3. Personal geological histories

Introduction & Overview

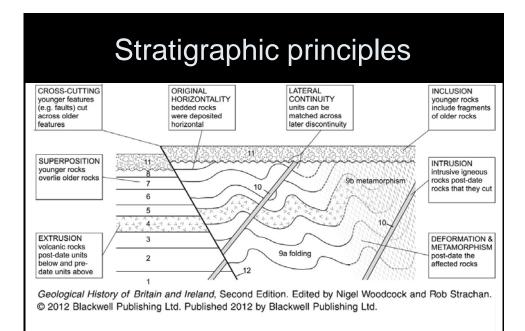
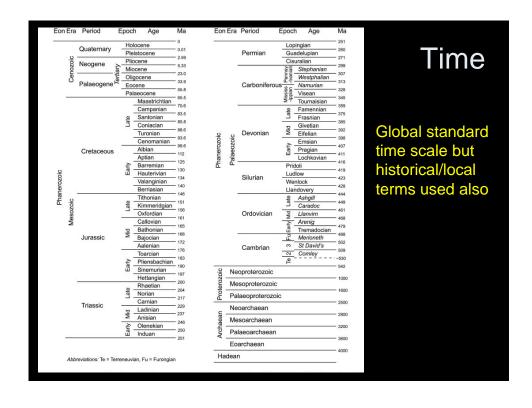
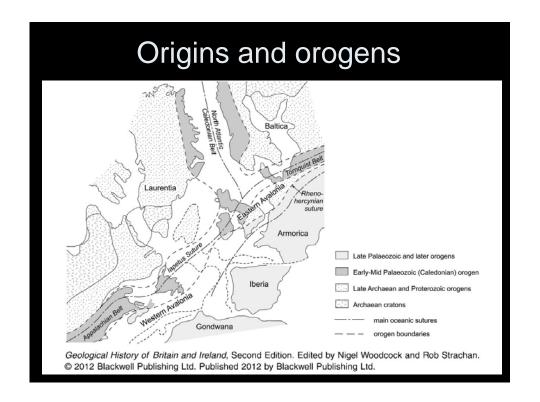
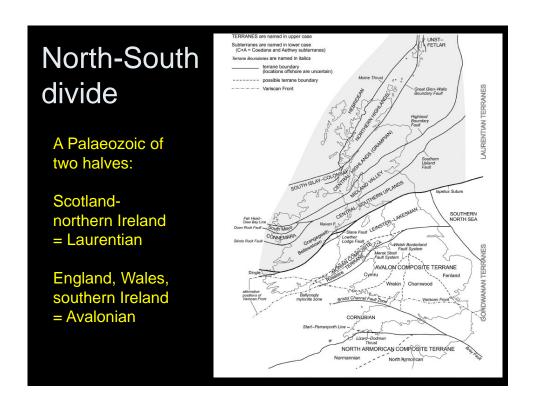


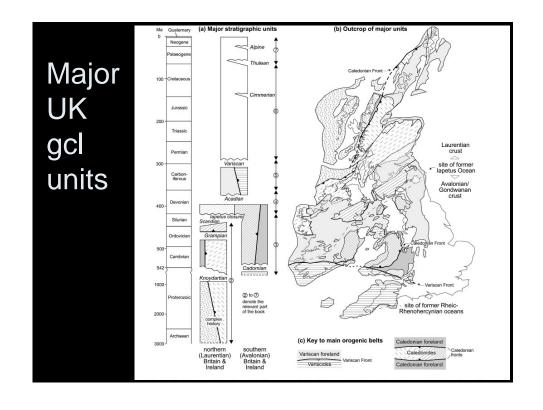
Fig. 1.1 Cross-section illustrating the rules of stratigraphy, which allow rock geometry to be translated into a sequence of

events (numbered 1-12).







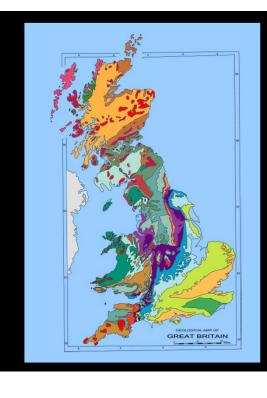




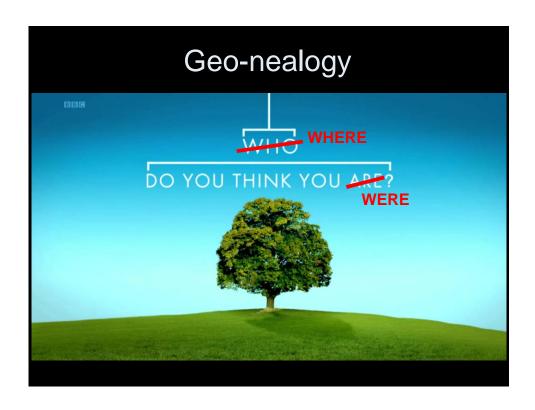
NW-SE

Land's End to John O'Groats no good

Walk Cape Wrath to Dungeness instead



What Do You Know Already?





Your Own Geological History

WRITE DOWN:

Where you were born

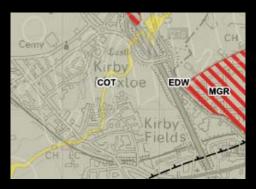
Where you live

Where you have worked

Where you love visiting



I was born on the Carnian, near the Charnian



Carnian = Late Triassic

Edwalton Member of the Sidmouth Mudstone
Formation

The Carnian on the Charnian

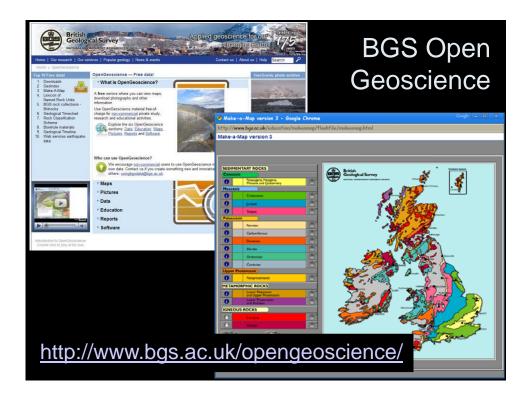


Triassic burial of Precambrian landscape Muds formed in salty, desert lake system

Geo-nealogy

Build up our own personal geological histories:

Task 1. Find out the geology of the place you were born



Next week

North of Iapetus: The Precambrian-Cambrian of Scotland

Q. What type of rocks were deposited in the Torridonian?

Links

Woodcock & Strachan student companion site:

http://bcs.wiley.com/hebcs/Books?action=index&bcsId=7187&itemId=1405193824

Tutorials on regional geology:

http://www.geologyrocks.co.uk/tutorials/category/regional_geology

BBC Radio 4 "In Our Time"

http://www.bbc.co.uk/programmes/b00n8t48