

# Atlas of Palaeogeography and Lithofacies

*Geological Society Memoir 13*

Edited by J.C.W. Cope (University of Wales, Cardiff, UK), J.K. Ingham (Glasgow University, UK) and P.F. Rawson (University College London, UK)

This A3 size full colour atlas traces the palaeogeographical evolution of the British Isles and surrounding areas from late Precambrian times through to the present day - an interval of approximately 1,000,000,000 years. The only work of comparable scope, Wills' classic "Palaeogeographical Atlas of the British Isles" was published 40 years ago, before the advent of plate tectonic theory and the offshore exploration programme, so that this publication provides a completely new stratigraphical overview of the geology of the British Isles in the context of modern Earth Sciences.

The Atlas breaks new ground by displaying a series of detailed Precambrian and early Palaeozoic maps; these comprise a sequence of structural time-frames that illustrate the evolution of the British Isles area as a collage of suspect terranes on either side of the Iapetus Ocean. This highly mobilistic approach to British Palaeozoic geology incorporates the latest ideas on terrane boundaries and is quite unlike any previously published work. Maps for later periods incorporate the latest available information for the offshore area.

A team of over 30 specialist contributors working under the auspices of the Geological Society Stratigraphy Committee has produced colour maps for each geological period at time intervals chosen to exhibit best the evolution of the British Isles area. Each map is accompanied by a 'running commentary' text printed on its facing page.

This new publication represents a major benchmark in U.K. geology and provides an important reference work for earth scientists throughout the world.

- Evolution of the British Isles and adjacent continental shelves discussed in a broad plate tectonic framework.
- Includes detailed lithofacies
- Incorporates onshore and offshore borehole data
- 106 colour maps
- Terrane's A3 size colour map
- Publication date: June 1991
- List price £295
- ISBN 0-903317-65-6
- Primary use: Regional geology of the British Isles and adjacent continental shelves, Petroleum geology, Geodynamics and basin evolution
- Secondary use: Plate tectonics, Palaeogeography, Teaching material

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**Terranes:** Terranes, **Precambrian:** Stoer Group, Torridon Group, Dalradian, S. Britain Late Precambrian 1, S. Britain Late Precambrian 2, **Cambrian:** S. Britain Comley, S. Britain St. Davids, S. Britain Merioneth, N. Britain Comley, **Ordovician:** N. Britain Tremadoc, N. Britain Mid Arenig, N. Britain Late Llanvirn, N. Britain Mid Llandeilo, N. Britain Mid Caradoc, N. Britain Mid Ashgill, S. Britain Tremadoc, S. Britain Arenig, S. Britain Late Llanvirn, S. Britain Mid Llandeilo, S. Britain Caradoc (Costonian), S. Britain Caradoc (Harnagian), S. Britain Caradoc (Longvillian), S. Britain Caradoc (Onnian), S. Britain M. Ashgill (Rawtheyan), S. Britain L. Ashgill (Himantian), **Silurian:** S. Britain Llandovery (Rhuddanian), S. Britain Llandovery (Aeronian), S. Britain Llandov (Aeron. detail), S. Britain Llandovery (Telychian), S. Britain Wenlock (Sheinwoodian), S. Britain Wenlock (Homerian), S. Britain Ludlow (Mid Gorstian), S. Britain Ludlow (Late Gorstian), S. Britain Ludlow (Early Ludfordian), S. Britain Ludlow (Late Ludfordian), N. Britain Llandovery (Rhuddanian), N. Britain Llandovery (Aeronian), N. Britain Llandovery (Telychian), N. Britain Wenlock (Sheinwoodian), S. Britain Early Pridoli, All Britain Mid Pridoli, **Devonian:** Lochkovian, Pragian/Emsian boundary, Givetian, Frasnian/Early Famennian, **Carboniferous:** Devon./Carb. boundary, Mid Courcøyan, Late Courcøyan-Early Chadian, Arundian, Brigantian, Amsbergian, Marsdenian, Westphalian A, Westphalian D, **Permian:** Early Permian, Late Permian 1, Late Permian 2, Late Permian 3, Late Permian 4, Late Permian 5, Late Permian 6, Late Permian 7, Late Permian 8, **Triassic:** Early-mid Scythian, Earliest Anisian, Latest Anisian, Earliest Carnian, Latest Norian to earliest Rhaetian, Mid Rhaetian, Late Carnian (detail), Late Rhaetian (detail), **Jurassic:** Early Hettangian, Early Pliensbachian, Late Pliensbachian, Mid Toarcian, Early Aalenian, Late Aalenian, Early Bajocian, Late Bajocian, Mid Bathonian, Late Bathonian, Early Callovian, Mid Callovian, Mid Oxfordian, Late Kimmeridgian, Early Portlandian (detail), Mid Portlandian (detail), Mid Portlandian (detail), **Cretaceous:** Latest Ryazanian, Mid Hauterivian, Late Aptian, Latest Albian, Early Cenomanian, Late Campanian, **Paleogene and Neogene:** Late Paleocene, Early Paleocene, Early Eocene, Mid Eocene, Late Eocene, Mid-late Oligocene, Miocene to Pliocene, **Quaternary:** Devensian, Quaternary crustal movement, present day

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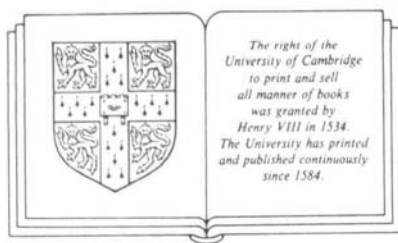
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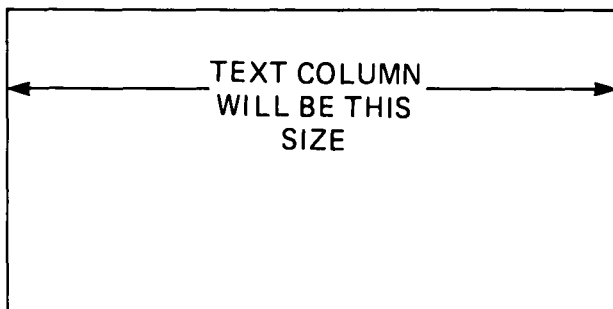
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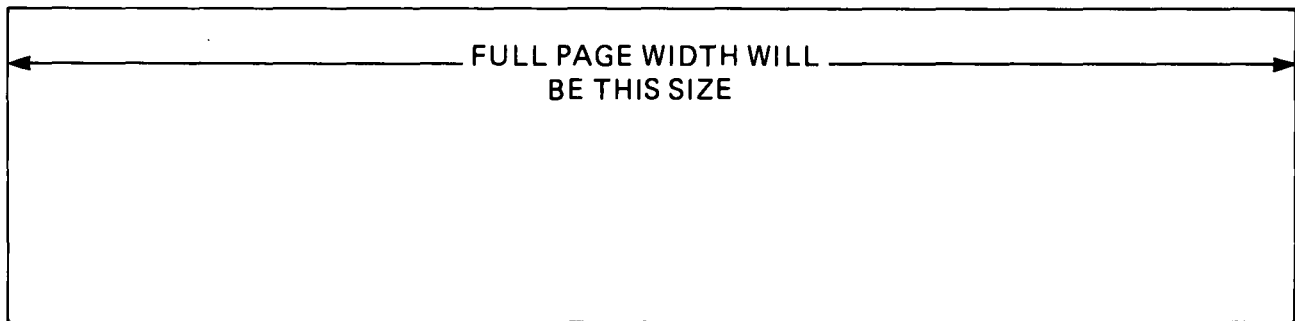


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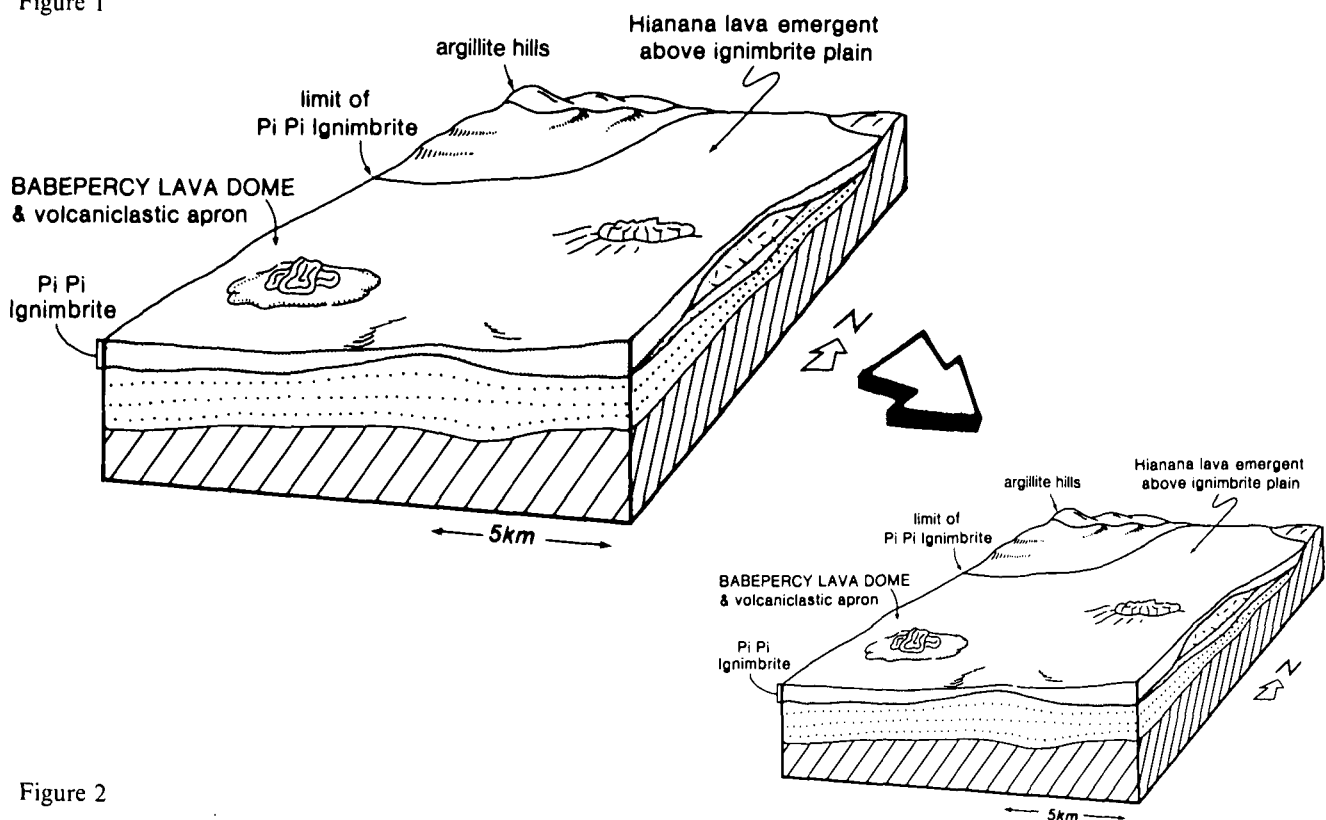


Figure 2

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