

The North Atlantic Igneous Province: Stratigraphy, Tectonic, Volcanic and Magmatic Processes

edited by

D. W. Jolley
(University of Sheffield, UK)

B. R. Bell
(University of Glasgow, UK)

The North Atlantic Igneous Province has been the subject of extensive scientific investigation over the past thirty years, with a wide field of knowledge being accumulated. Recently, recognition of the potential role of Large Igneous Provinces in affecting ocean and atmosphere systems and biotic evolutionary pathways has lead to increased interest in this province. This has been further stimulated by the expansion in the search for oil and gas in Mesozoic and Tertiary sediments along the NE Atlantic Margin. An improved understanding of the interaction between igneous and sedimentary processes is vital for the identification of potential hydrocarbon resources.

The regions covered include continental margin Norway, east and west Greenland, the Faroe–Shetland Basin and the Faroe Islands themselves. The papers in this book contain new data and interpretations of North Atlantic Igneous Province magmatic processes, rift evolution, tectonics, stratigraphy (chemostratigraphy, biostratigraphy, seismic and isotope stratigraphy) and sediment dispersal. Many of the papers adopt a multidisciplinary approach to the analysis and interpretation of complex volcanic and sedimentary sequences. These new data, and the reviews and compilations of existing data provide the reader with access to current research directions in North Atlantic Igneous Province geology.

- 338 pages
- 129 illustrations
- 12 papers
- index

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Cover illustration: The cliffs of Beinisvørð, 3 km NW of Sumba, southern Suðuroy, Faroe Islands. This 469 m section is composed of flat-lying sheet flows of the Faroes lower lava formation. Photograph courtesy of Brian Bell.

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