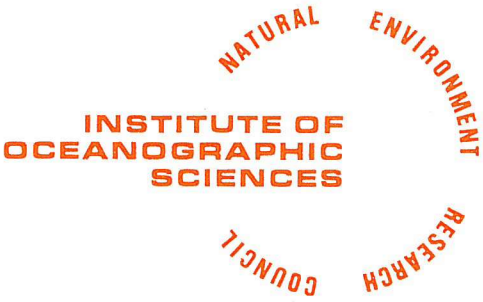


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The geology and morphology of  
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IOS work on the geology and morphology of North Atlantic continental margins has been supported since April 1976 by two commissions "Geological and geophysical studies of continental margins" (Dept of Energy) and "Bathymetric charts" (Departments of Energy and Industry, now solely Dept of Industry). These were proposed as natural continuations of parts of a long term IOS programme considered to have substantial relevance to Departments' objectives.

35 publications and unpublished papers are listed. They cover the more recent results. Many deal with results and conclusions reached before the formal commencement of Departmental funding of the projects: one of the aims of the selection of earlier papers is to cover also work done during the 1973-76 transition period of funding.

Eight of the papers, marked by asterisks in the right hand margin of the bibliography, synthesize aspects of the results. Three, (Roberts 1974, 1975 c.f.) concentrate respectively on the structural development, marine geology and the tectonic and stratigraphic evolution of the area around the Rockall Plateau. Two others, (Montadert and Roberts 1978; Roberts, Searle and Montadert 1978) provide later syntheses of understanding of the structural and stratigraphic evolution of the South Western Approaches and of the South Western Rockall Plateau. They take into account the results of IPOD Leg 48 drilling in those areas.

Two papers (Laughton et al. 1975, Roberts et al. 1979) comment on the morphology of the floor of the North East Atlantic, including the continental margin around the British Isles. One, (Roberts and Caston, 1975) attempts to assess the petroleum potential of the deep Atlantic Ocean.

PUBLISHED PAPERS

- Roberts, D.G. 1974 Structural development of the Rockall Plateau and continental margin west of the British Isles. Pp 343-359 in Continental Margins of the World, Edited by C. Burk and C.L. Drake. Springer-Verlag, New York. \*
- Roberts, D.G. 1975 The Solid Geology of the Rockall Plateau. Inst. Geol. Sci. Rept. 75/1, 1-10.
- Flemming, N.C., Binns, P.E., Roberts, D.G., 1975. Helen's Reef: Geology and bathymetry. Inst. Geol. Sci. Rept 75/1, 53-60.
- Roberts, D.G. 1975 Marine Geology of the Rockall Plateau and Trough. Phil. Trans. Roy. Soc. Lond., A278, 447-509. (1285) \*
- Roberts, D.G. 1975 Sediment distribution on the Rockall Bank, Rockall Plateau. Marine Geology, 19, 239-257.
- Roberts, D.G. and Caston, V.N.D. 1975 Petroleum Potential of the Deep Atlantic Ocean. Pp 281-298 in Proc. 9th World Petroleum Congress, Tokyo, May 1975, Vol. 2. \*
- Roberts, D.G., 1975 Geology and tectonics of the area beyond the shelf west of the British Isles. Paper OE-75202 in Offshore Europe 75, Kingston Upon Thames, Offshore Services Magazine, 8pp.
- Roberts, D.G. 1975 Tectonic and stratigraphic evolution of the Rockall Plateau and Trough. Pp 71-91 in Petroleum and the continental shelf of North West Europe, Vol. 1, Geology, Edited by A.W. Woodland. Applied Science Publishers Ltd. \*
- Laughton, A.S., Roberts, D.G. and Graves, R. 1975 Bathymetry of the North East Atlantic: Mid-Atlantic Ridge to Europe. Deep-Sea Research, 22, 791-810. \*
- Roberts, D.G., Montadert, L., et al., 1976 Deep-Sea Drilling in Biscay and Rockall, Leg 48. Geotimes, 21, (12), 19-21.
- Roberts, D.G., Searle, R.C., Hird, G.A., Brummit, J.G. 1976 Deep Water Multichannel seismic survey on the Rockall Plateau for deep-sea drilling. Conference of Society of Exploration Geophysicists, Houston, October, 1976
- Roberts, D.G., Montadert, L. et al. 1977 Initial Core Descriptions Leg 48. Biscay and Rockall. Deep Sea Drilling Project, Scripps Inst. Oceanog.
- Roberts, D.G., Montadert, L. et al. 1977 Rifting and subsidence on N.E. Atlantic Passive margins. Nature, Lond. Vol. 268, 305-30
- Laughton, A.S. and Roberts, D.G. 1978 Morphology of Continental Margins. Phil. Trans. Roy. Soc. Lond., A 290, (1366), 75-85.

De Charpal, O. et al., 1978 Crustal attenuation and subsidence in rifted margin of the Bay of Biscay. Nature Lond., Vol.

Roberts, D.G., Hunter, P.M. and Laughton, A.S. 1979 Bathymetry of the North East Atlantic. The Continental margin around the British Isles. Deep Sea Research, Vol. 26A, (4), 417-428. \*

PAPERS IN PRESS

Roberts, D.G., Montadert, L. et al., 1978 Geological setting and results of IPOD Leg 48, Biscay and Rockall. Phil. Trans. R. Soc. Lond., (in press).

Roberts, D.G. and Montadert, L. 1978 Contrasts in the structural style of the passive margins of Biscay and Rockall. Phil. Trans. Roy. Soc. Lond., (in press).

Roberts, D.G., Montadert, L. et al., 1978 North East Atlantic Passive Margins Rifting and Subsidence Processes. 2nd Maurice Ewing Symposium. March, 1978. (in press).

Roberts, D.G., Montadert, L. et al. 1978 Initial Reports of the Deep Sea Drilling Project Leg 48. (in press)

Roberts, D.G., Montadert, L. and Thompson, R.W.T. 1978 Introductory chapter. Initial Reports of the Deep Sea Drilling Project Leg 48. (in press).

Roberts, D.G., Montadert, L. 1978 Objectives of N.E. Atlantic Passive Margin drilling. Initial Reports of the Deep Sea Drilling Project Leg 48. (in press).

Roberts, D.G., Montadert, L. et al., 1978 Site chapters 400A-406 in Initial Reports of the Deep Sea Drilling Project Leg 48. (in press).

Montadert, L., Roberts, D.G. 1978 Structural and stratigraphic evolution of the continental margin in the South Western Approaches. Initial Reports of the Deep Sea Drilling Project. (in press).

Roberts, D.G., Searle, R.C. and Montadert, L. 1978 The South Western Rockall Plateau structural and stratigraphic evolution. Initial Reports of the Deep Sea Drilling Project Leg 48. (in press).

Roberts, D.G. and Montadert, L. 1978 North East Atlantic margin palaeoenvironments. Initial Reports of the Deep Sea Drilling Project. (in press).

Roberts, D.G. and Montadert, L. 1978 Evolution of passive margins in perspective and retrospective of Leg 48. Initial Reports of the Deep Sea Drilling Project Leg 48. (in press).

Roberts, D.G. and Kidd, R.B. Abyssal mud waves in the Feni Ridge: long range sonar studies of the Rockall Trough. Marine Geology, (in press).

UNPUBLISHED MANUSCRIPTS

Roberts, D.G. et al. 1975 RRS Discovery Cruise 74 Leg 2: Seismic reflection profiling across the continental margin in the S.W. Approaches. IOS Cruise Report, No. 33, 20 pp.

Roberts, D.G. et al., 1977 RRS Shackleton Cruise 6/76. Geological and geophysical studies in south west Biscay. IOS Cruise Report No. 49.

Roberts, D.G. et al., 1978 RRS Discovery Cruise 90. Sonar imaging of the continental margin Biscay to N.W. Africa. IOS Cruise Report No. 68, 22pp.

Roberts, D.G., Montadert, L., et al., 1976. Summary of Deep-Sea Drilling Project, Leg 48. Scripps Inst. Oceanography 18pp.

Roberts, D.G. and Hunter, P.M. Implications and alternatives to the Irish formula. IOS Internal Document

Roberts, D.G. Continental margin studies using GLORIA. IOS Internal Document

Roberts, D.G. & Montadert, L. 1979 Drilling on North East Atlantic margins during the IPOD-I extension. (unpublished manuscript).



