



Martin Hovland

Deep-water Coral Reefs

Unique Biodiversity Hot-Spots

Series: Life Sciences

- Provides a comprehensive and thorough scientific analysis and documentation of deep-water coral reefs around the world
- Presents and documents why reefs thrive because of geological process, rather than mere oceanographic conditions in the water
- Highlights the general geological implications for the understanding of ancient coral and carbonate reefs, such as jurassic reefs and devonian reefs

Deep-water coral reefs are found along large sections of the outer continental shelves and slopes of Europe, from North Cape to the Gulf of Cadiz, and because they also occur along the Atlantic seaboard of USA, the Gulf of Mexico, off Brazil, in the Mediterranean, and off New Zealand, they are currently being targeted by international groups of marine scientists. They have become popular and opportune deep-water research targets because they offer exciting frontier exploration, combined with a whole plethora of modern scientific methods, such as deep-sea drilling, sampling, remote control surveying and documentation. Furthermore they represent timely opportunities for further developments within the application of geochemistry, stable isotope research, bacterial sciences, including DNA-sequestering, and medical research (search for bioactive compounds). The Integrated Ocean Drilling Program (IODP) has arranged a deep-sea scientific drilling campaign on giant carbonate banks off Ireland. Because the reefs currently defy traditional marine-ecological theories, they represent future research opportunities and will enjoy scientific scrutiny for many years to come.

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