

Cool-Water Carbonates

Depositional Systems and Palaeoenvironmental Controls

Edited by

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During the past decade, work on cool-water carbonates has expanded to become a mainstream research area. Studies on modern and Quaternary deposits will continue to be important; however, there is increasing momentum towards unravelling sediment processes, biota–sediment interactions and diagenetic products in Cenozoic and older cool-water carbonates.

Many contributions in this book document Cenozoic and Quaternary carbonates from landlocked (microtidal) water-bodies. These carbonates display important differences in biota and fabric distributions when compared with world ocean examples.

Consequently, the scientific community is now better placed to reinterpret pre-Tertiary carbonates where there is a suspicion that they have developed under microtidal conditions. Some papers in the book provide new approaches to interpreting environmental change within macrotidal regimes and others lay firm foundations for future cool-water carbonate diagenetic research

The aim of the book is to illustrate recent international contributions to cool-water carbonates research, with an emphasis on Neogene and Recent case studies. Contributions are divided into three sections: microtidal carbonates from the Mediterranean realm; macrotidal examples from New Zealand, Australia and Mexico; and early diagenetic fabrics.

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Cover illustration:

Recent, bryozoan-dominated, cool-water carbonates collected from surface sediments on the outer shelf, near Otago Peninsula, southeastern South Island, New Zealand.

Photograph by Peter Batson, ExploreTheAbbyss.Com