

Neritic Carbonate Sediments In A Temperate Realm

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The book is designed for scientists, professionals and others who have a general knowledge of sedimentology and marine geology. There is no other book that details the nature of cool-water carbonate deposition over such an extensive area. The approach is classical but the information is new. A brief chapter of introduction is followed by a section that describes the setting of the continental margin in terms of the regional geology, its evolution through geological time, the climate, and the complex oceanography. The setting is further explored in chapter 3 that outlines the Pleistocene history of sedimentation in this region. This is particularly important since many of the surficial sediments have a partial older history. The following section on the carbonate factory describes in detail the nature of the animals and plants that determine the nature of the sediments and the environmental conditions that control their distribution. The shelf itself cannot be discussed in isolation and thus a short chapter on the marginal marine environment is presented. The core of the book comprises two chapters that document the suite of depositional facies and their composition and then the suite of depositional environments where these sediments are found. The variety of deposits in this vast area is such that three chapters are devoted to the character of the materials on the southwestern shelf the south Australian sea and the southeastern shelf. The diagenesis that affects these sediments is tackled in a chapter after all the attributes are documented because they are intimately linked to different controls. The book finishes with a summary chapter that also addresses the various controls on sedimentation and models the effects to be expected when these are changed outside those present in the current realm. EAN/ISBN : 9789048192892 Publisher(s): Springer Netherlands, Springer Science & Business Media Discussed keywords: Australien, Geologie, Karbonate Format: ePub/PDF Author(s): James, Noel P. - Bone, Yvonne

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