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Podcast #7 **How Sloths Went From the Seas to the Trees**

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The Sedimentary Record of Sea-Level Change.

Paperback - 22 May 2003. by Angela L. Coe

(Author), Dan W. J. Bosence (Author), Kevin D. Church (Author), Stephen S. Flint

(Author), John A. Howell (Author), R. Chris

L. Wilson (Author) & 3 more. 4.8 out of 5

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stratigraphy: transgressive, highstand, and lowstand systems tracks, maximum flooding

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Sequence stratigraphy is a model for dividing the sedimentary record into discrete, sedimentary packages on a range of length- and time-scales, where each package represents a cyclic change in sea-level and/or sediment supply. This techniques is widely used to understand the genesis of the sedimentary record, to examine the global synchronicity of sedimentary cycles and in the exploration for hydrocarbon reserves.

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The Sedimentary Record of Sea-Level Change
Angela L. Coe , Dan W. J. Bosence , Kevin D. Church , Stephen S. Flint , John A. Howell , R. Chris L. Wilson This illustrated textbook describes how past changes in sea-level can be detected through an analysis of the sedimentary record, and how sequence stratigraphy techniques can provide explanations of how the sedimentary system evolves through geological time.

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The Middle Pleistocene to Holocene sequence at Integrated Ocean Drilling Program Site U1460 contains a record of sea-level controlled sedimentary cycles. Carbonate sediments deposited during interglacial sea-level highstands (Marine Isotope Stages 1, 5, most of 7, 9 and 11) are mainly fine-grained (<63 μm) and dominated by low-Mg calcite from pelagic bioclasts such as planktic foraminifera.

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Sedimentary records can be obtained from deeper settings in the central Arctic Ocean, but their chronology is equivocal due to: i) highly variable but overly low accumulation rates, ii) the rarity of biogenic remains that can be dated, ensuing from low primary productivity, and iii) the blurred foraminifera

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Cambridge University Press, May 22, 2003 - Science - 288 pages. 1 Review. This unique textbook describes how past changes in sea-level can be detected through an analysis of the sedimentary record. In particular, it concentrates on the current sequence

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stratigraphy model. It explains this model from basics and shows how the model can be applied to both siliciclastic and carbonate successions.

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Cambridge, New York: Cambridge University
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