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Quaternary - Sea-level changes: Since the early 1970s, the major tool for understanding changes in global ice volumes,

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temperatures, and sea level has been the record of stable isotopes of oxygen extracted from marine fossils, cave limestone, and ice cores.

Quaternary - Sea-level changes | Britannica

This book reviews the history of research into these sea-level changes and summarises the methods and analytical

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approaches used to interpret evidence for sea-level changes. It provides an overview of changing climates during the Quaternary, examines processes responsible for global variability of sea-level records, and presents detailed reviews of sea-level changes for the Pleistocene and Holocene.

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Global Perspective:

Murray ...

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experience a null point with rising sea level earlier in the history of sea-level rise and subsequent high stand of the sea. In fact, the reverse is true; the Barbados date is the youngest of the three examples.

5 Quaternary Sea-Level Change | Sea-Level Change | The

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Global Perspective

Flooding caused by a rise in global mean sea level has the potential to affect the lives of more than 1 billion people in coastal areas worldwide. There have been significant changes in sea level over the past 2 million years, both at the local and global scales,

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Quaternary sea-level changes (Chapter 2

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The Intergovernmental Panel on Climate Change (2007) recently estimated that global sea level will rise from 0.18 to 0.59 m by the end of this century. Rising sea level not only inundates low-lying coastal regions but also contributes to the ...

Pre-Quaternary Sea-

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**Annual Review of
Earth ...**

A global sea-level rise will result if this trend continues. It is in this sense that geosciences will play a significant role in providing interpretative tools for the understanding of past sea levels. The terrestrial record During the Quaternary, "high" sea-level stands coincided with "warm" epochs.

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Quaternary sea-level changes - ScienceDirect

The Quaternary has been characterized by several periods of glaciation (the “ice ages” of common lore), when ice sheets many kilometres thick have covered vast areas of the continents in temperate areas. During and between these glacial periods, rapid changes in

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climate and sea level have occurred, and environments worldwide have been altered.

**Quaternary |
geochronology |
Britannica**

The major effects of the Quaternary glaciation, have been the erosion of land and the deposition of material, both over large parts of the continents; the

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modification of river systems; the creation of millions of lakes, including the development of pluvial lakes far from the ice margins; changes in sea level; the isostatic adjustment of the Earth's crust; flooding; and abnormal winds.

Quaternary glaciation - Wikipedia

Chappell, J., 2002. "Sea level changes forced

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ice breakouts in the last glacial cycle: New results from coral terraces." Quaternary Sci. Rev., 21, 1229-1240. CrossRef
Google Scholar

Sea Level Change, Quaternary | SpringerLink

This study presents the fluvial response to late Quaternary sea level changes in the Mahanadi delta.

Channel morphological

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adjustments indicative of sea level changes, such as anastomosing-meandering transition, dendritic channels, and river mouth shift, have been used to reconstruct the paleo-coastlines. Major rivers in the Mahanadi delta (e.g., Mahanadi, Devi, Brahmani, and Baitarani) show alteration of anastomosing and meandering fluvial systems at the late

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**Fluvial response to
Late Quaternary sea
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It then explores the changes captured by more recent meteorological records in the period up to the present day. Current climate change research foretells of potentially catastrophic sea-level changes in the future;

chapterseven

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examines sea-level changes throughout the Quaternary, putting current concerns into perspective.

Global Environments Through the Quaternary by David E ...

About this book. There have been significant changes in sea level over the past two million years, and a complete understanding of

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natural cycles of
change as well as
anthropogenic effects
is imperative for future
global development.
Quaternary Sea-Level
Changes reviews the
history of research into
these sea-level
changes and
summarises the
methods and analytical
approaches used to
interpret evidence for
sea-level changes.

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Hence, the analysis of Quaternary sea-level changes is particularly relevant, as these are primarily driven by glacial cycles, with extensive glaciers and ice sheets during cold climate periods (glacials) and small extents of glacier and ice sheets during warm climate periods (interglacials). This

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article gives an overview on the currently available literature about the causes and magnitudes of Quaternary sea-level changes as well as the potential impacts of current and future sea-level ...

Quaternary Sea-Level Research - Geography - Oxford

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It provides an overview of changing climates

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during the Quaternary, examines processes responsible for global variability of sea-level records, and presents detailed reviews of sea-level changes for the Pleistocene and Holocene. The book concludes by discussing current trends in sea levels and likely future sea-level changes.

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**Global Perspective
by ...**

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Wallace, Colin V.,
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Global Perspective 1**

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Indicators of past sea level play a key role in tracking the history of global climate.

Variations in global sea level are controlled mainly by growth and decay of continental glaciers and temperatures that are closely correlated with

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the mean global climate state (glacial and interglacial cycles).

Gauging Quaternary Sea Level Changes Through Scientific ...

Quaternary Sea-Level Changes: A Global Perspective. There have been significant changes in sea level over the past two million years, and a complete understanding of

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natural cycles of
change as well as
anthropogenic effects
is imperative for future
global development.

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Colin ...**

The sedimentology
research group at
UCSB studies a wide
range of coastal
processes using a
variety of field and
laboratory techniques.

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Ongoing projects include the evolution of marshes in Southern California, past inundation events in Southern California, hyperpycnal fans in the Santa Barbara Channel, and shoreline responses to large sediment pulses near deltas.

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