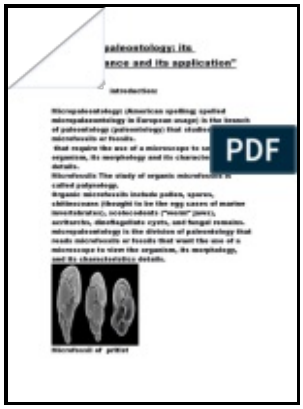
Palaeosalinity analysis of the Solent Group (Eocene-Oligocene), the Hampshire Basin, UK

University of Portsmouth, School of Earth, Environmental and Physical Sciences - Correlation of Eocene



Description: -
-palaeosalinity analysis of the Solent Group (Eocene-Oligocene), the Hampshire Basin, UK
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Glacioeustasy during the middle Eocene? Insights from the stratigraphy of the Hampshire Basin, UK

Interpretation of Eocene which reportedly disappeared 100 ka beforethe start of Chron13n.

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Therefore, the Bem-bridge normal polarity zone represents Chron C13n. In the Headon Hill and Bembridge Limestone Forma-tions, periods of high eccentricity on the 400 ka cycle show evidence of overall low sea level, enhanced sea-level fluctuation and increased seasonal contrast Figs.

[PDF] Correlation of Eocene

A sea-level curve is derived using the amount of incision as a minimum measure of eustatic fall, but there is no evidence of a major eustatic drop of 30—90 m corresponding to the early Oligocene glaciation of Antarctica.

Correlation of Eocene Oligocene marine and continental records: orbital cyclicity, magnetostratigraphy and sequence stratigraphy of the Solent Group, Isle of Wight, UK

Investigation of the cyclic signal in clay mineralogical data reveals that sea level was controlled by the ~400ka cycle of astronomical Milankovitch forcing at this critical period in Earth history, when the change from a greenhouse world to an icehouse world took place. The pattern of brackish to marine transgressive systems tracts, fluviatile pedogenic highstands, and lacustrine, carbonate-rich lowstands is repeated through Sequences 1—5 both here and elsewhere in the Isle of Wight.

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It is likely that incision was suppressed by rapid rates of subsidence. Furthermore, the quality of the palaeomagnetic determinations for all four

intervals is relatively poor mostly Category 3.

Eocene

Princeton University Press, Princeton, NJ, 494—515. In the north of the island, closer to the position of the proto-Solent channel, early lowstand deposits comprise fluviatile sands, gravels and lenses of conglomerate, which rest erosionally upon sequence boundaries cut into pedogenic silty clays of the preceding highstand deposits. This supports the hypothesis that the large-scale varia-tions in clay mineralogy are linked to the orbital eccentricity cycles.

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