

Desmodont bivalves from the Permian of eastern Australia

Bureau of Mineral Resources, Geology and Geophysics] - EURYDESMA AND GLENDELLA GEN. NOV. (BIVALVIA) IN THE PERMIAN OF EASTERN AUSTRALIA.

Description: -

- South Africa -- Race relations.

South Africa -- Politics and government -- 1961-1978.

Homelands, South Africa -- Economic conditions.

Homelands (South Africa) -- Politics and government.

Baldwin, James, -- 1924-

Paleontology -- Australia.

Paleontology -- Permian.

Bivalvia, Fossil -- Australia. Desmodont bivalves from the Permian of eastern Australia

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Notes: Bibliography: p. 75-83.

This edition was published in 1967

LITHOSTRATIGRAPHY		MEMBER	BIVALVE ASSEMBLAGES	DEPOSITIONAL SYSTEMS	ENVIRONMENTAL CONDITIONS
CHRONO	FORMATION				
LIPIDIAN	MORRO PELAO			FLUVIAL, DELTAIC AND EOLIC SYSTEMS	Mainly eolian dune fields
GUADALUPEAN	RIO DO RASTO		<i>Papeomucilla palmerensis</i>		Freshwater,oxic,siliciclastic
GUADALUPEAN : WOODWARDIAN : KUNZIAN	SERRINHA		<i>Papeomucilla austrole</i> <i>Terebratula decolorata</i> <i>Terebratula decolorata</i>		Marginal, freshwater,oxic, mainly siliciclastic
GUADALUPEAN : WOODWARDIAN : KUNZIAN : CAPITANIAN	TERESINA		<i>Leptaenoides similis</i> <i>Terebratula curvata</i>		Nearshore, variable salinity,oxic,siliciclastic/ carbonate
PASSA D'OS	SERRA ALTA		<i>Pinacella neotropica</i>		Offshore,dysoxic/anoxic siliciclastic
IRATI	TAQUARAL		<i>Pinacella lusa</i> <i>Atrypa frosasi</i>		Offshore,dysoxic/anoxic siliciclastic/siliciclastic/carbonate



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#Sydney #Basin, #southeastern #Australia

Tags: #Lower #Permian #brachiopods
#from #Wasp #Head #Formation,

Onset of foreland thrust loading recorded in Late Permian marine sediments, eastern Bowen Basin, Queensland, Australia

The species diversity and stratigraphic occurrences of the brachiopod assemblages in relation to sedimentary facies suggest that the lower two assemblages may represent an intra-glacial interval while the younger third assemblage, characterized by abundant occurrences of *Trigonotreta* and *Tomiopsis* species, accompanied by the bivalve *Eurydesma*, is more indicative of a post-glacial benthic marine fauna comparable to coeval brachiopod faunas found elsewhere in Gondwana. The other two specimens are irregular, roughly equant rounded masses of coprolitic material with a maximum diameter between 10 and 15 mm, each with a single fragment of bivalve shell.

Climatic implications from the sequential changes in diversity and biogeographic affinities for brachiopods and bivalves in the Permian of eastern Australia and New Zealand

Proximity to an exposed landmass is indicated by the abundance of large, drifted plant debris in all sediments.

Permian bivalve mollusks of Northeast Asia

As its name reflects, the genus closely resembles *Campnocrinus* Wachsmuth and Springer from the Carboniferous of North America, but it is distinguished by an inflated tegmen and a stem that is bilateral for its entire length. Primitive desmodont pelecypods of the Australian Permian. One of the characteristics of this event is that although its onset was sudden, the environmental conditions remained harsh for several million years into the succeeding Triassic Period.

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Paleoecological Considerations The bivalve-bearing lag appears to contain reworked specimens from the underlying lacustrine muds but may well

contain the fossils of some channel-dwelling fauna as well. Why then does the sandstone stretch from Newcastle in the north to Batemans Bay in the south, and west to the Blue Mountains towards Lithgow, and up until the edges of Mudgee in midwestern New South Wales? The Society supports members in their professional objectives by publication of two major scientific journals, the *Journal of Sedimentary Research* and *PALAIOS*. *Paläontologische Zeitschrift* 80 2 : 130—155.

The bivalves *megadesmus sowerby* and *Astartila dana* from the permian of eastern australia

The Permian Leiopteriid Merismopteria and the origin of the Pteriidae.

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