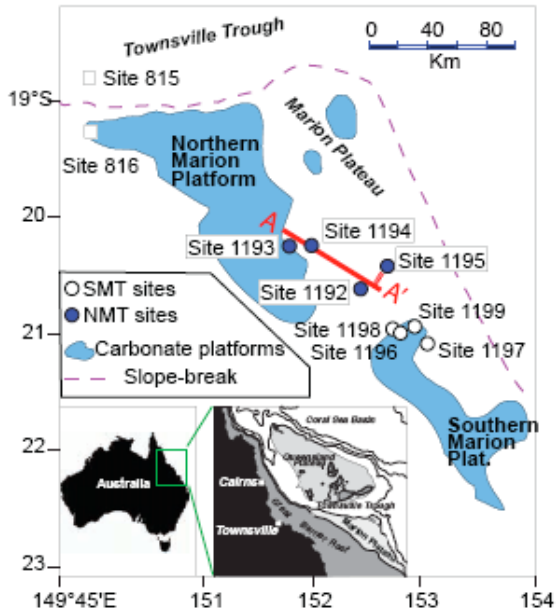

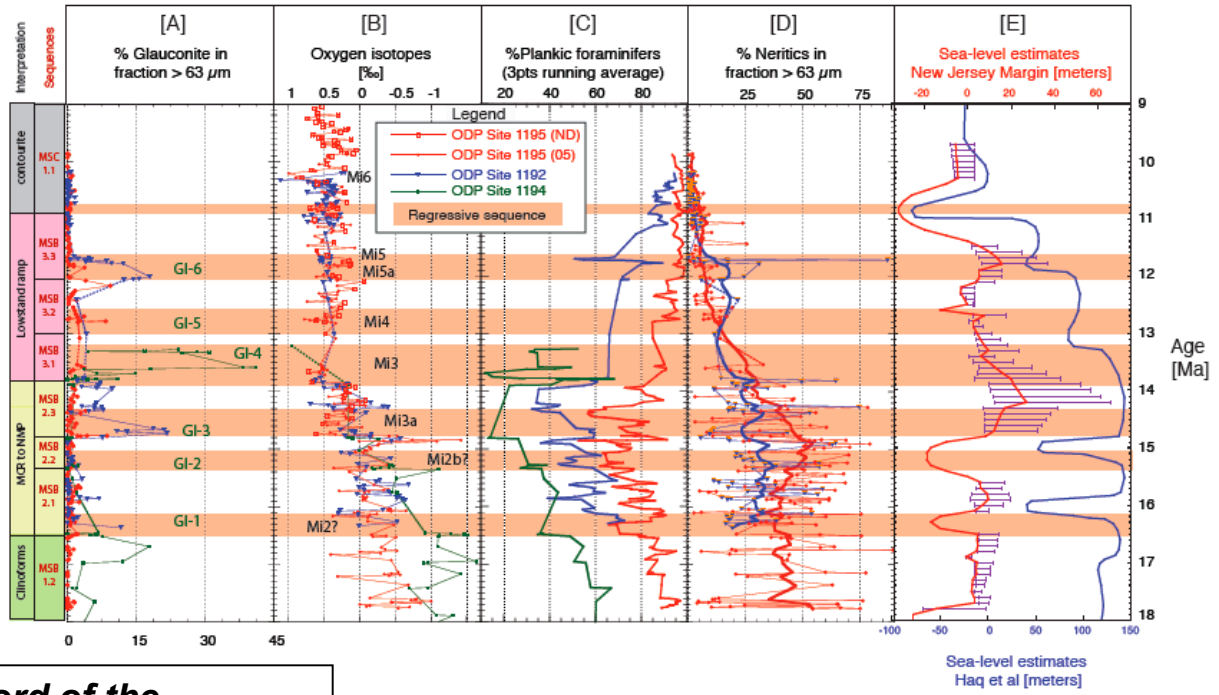

48462-AC8 Miocene Eustatic Record of the Northeastern Margin: Linking the Timing and Magnitude of Sea-Level Changes with the Stratigraphic Response and Paleoceanography of the Subtropical Pacific

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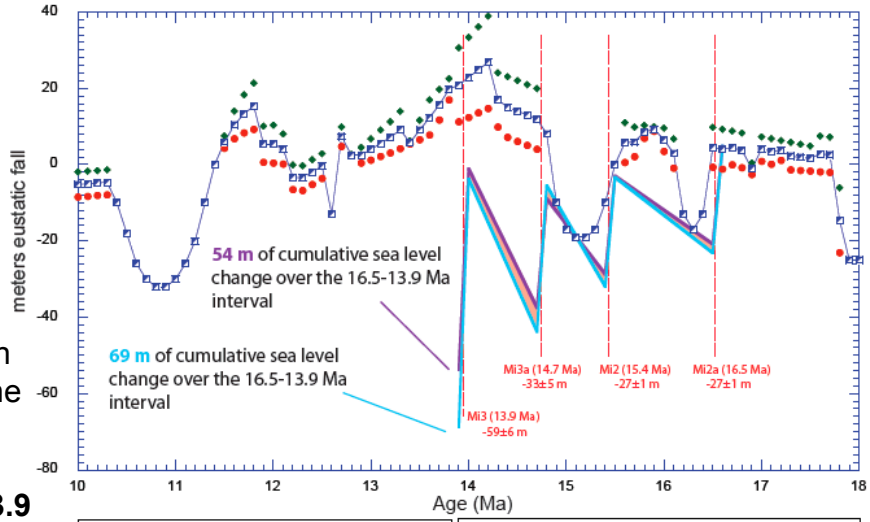

Eustasy is a key parameter to understand sedimentary sequences on continental margins and to **reconstruct continental ice volume** in the Cenozoic, but timing and magnitude of **global sea level changes** remain controversial, especially for the Miocene Epoch. Our new estimates suggest that **sea-level fell by 53-69 m between 16.5 to 13.9 Ma**. This **implies that at least 90% of the East Antactic Icesheet was formed during the middle Miocene**. These new independent amplitude estimates are crucial as the Miocene is the geologic Epoch for which the New Jersey margin sea-level record is least constrained.