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Brief Summary

My research aims to investigate the possible controls on the high source-rock potential of Lower Triassic sediments in the Perth Basin and to predict the source rock potential of equivalent age rocks in the Beagle-Roebuck basins using an integrated and novel geological and organic geochemical approach. The end Permian mass extinction was the largest mass extinction in the last 600 million years. In the Perth Basin, Early Triassic high potential source rock was deposited after this event and was believed as the potential source rock for the oils in this basin. On the other hand, the Early Triassic source rock potential has not been well understood in the Beagle-Roebuck basins. My research tries to determine basin-scale lateral distribution of source rock properties, re-evaluate biomarkers which are currently considered as the photic zone euxinia and understand the impact of basin geometry/paleogeography on the source rock development.

Education:
Bsc (2009) and MSc (2011) at Chiba University in Japan

Research interests:
Organic Geochemistry, Biomarkers, Stable isotopes, Petroleum Geology, Seismic interpretation, Paleogeography, Basin development

Thesis title:
A re-evaluation of paleoenvironmental conditions of source rock deposition in the Early Triassic

Supervisors:
Kliti Grice, Christopher Elders