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Cenozoic Climate Change

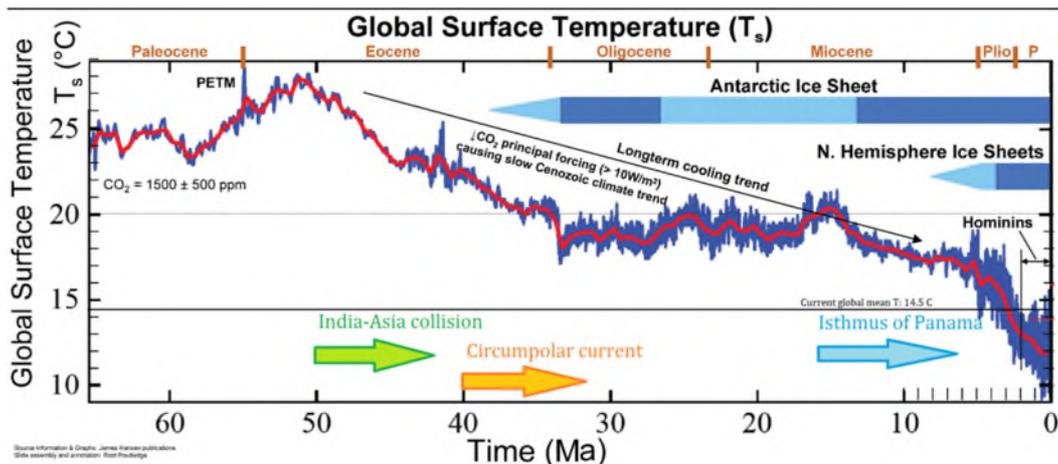
Dr Tom Dunkley Jones

(School of Geography, Earth and Environment, University of Birmingham)

8th March 2022 | Zoom Video Conference | 6:30pm start

Abstract:

The Eocene Epoch includes the warmest climate conditions of the whole Cenozoic. As such, the Eocene is a key target for constraining the response of Earth's climate to large increases in greenhouse gas forcing relative to pre-industrial. Recent work has focused on improved reconstructions of Eocene greenhouse gas concentrations, especially carbon dioxide, planetary surface temperatures and a consistent approach to new multi-model ensemble climate simulations. Here I will present a summary of some of this work, before discussing new work to constrain the role of the NE Atlantic region on early Eocene climates, especially the role of the North Atlantic Igneous Province (NAIP) on driving hyperthermal climates at the start of the Eocene. I will then present a new set of high-quality proxy temperature and CO₂ records from the early Eocene sediments of the Rockall Trough. I will end with the presentation of a new continuous and high-fidelity sedimentary record of sea level and paleoenvironments from the US Gulf Coast, spanning the last 3 million years of the Eocene and the onset of Antarctica glaciation at the Eocene-Oligocene transition.



About the Speaker:

Tom is a micropalaeontologist and paleoceanographer specializing in the study of fossil coccolithophore algae. His research interests are focused on the warm-climate states of the Paleogene period and include the use of coccolithophore assemblages and geochemical signatures as palaeoceanographic proxies. Tom is also interested in improving reconstructions of warm climate temperature proxy data, and their use in constraining palaeoclimate model simulations. <https://www.birmingham.ac.uk/staff/profiles/gees/dunkley-jones-tom.aspx>

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DATE	TITLE	SPEAKER	VENUE
12 th April 2022 6:30pm	Diversity in Geoscience	Lisa Pinney (The Coal Authority)	Zoom - Virtual Meeting

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