



Sea level change in the past, present and future (Hybrid Event)
06 - 07 February 2023

PROGRAMME



The
Geological
Society

DAY ONE - Monday 6th February

1000-1030	Registration	
1030-1045	Welcome	
1045-1115	Mike Simmons – Halliburton	Invited talk: Building a eustatic sea-level curve from the rocks up
1115-1135	Lennert Bastiaan Stap - Utrecht University	Miocene Antarctic ice sheet area responds significantly faster than volume to CO2-induced climate changes
1135-1155	Caroline Lear - Cardiff University	Playing to Proxy Strengths: Reconstructing Pliocene Sea Level Amplitudes
1155-1230	Poster flash talks	
1230-1330	Lunch	
1330-1400	In person poster session	
1400-1430	Ken Miller - Rutgers University	Invited talk: Global mean and relative- sea-level records over the past 66 Myr: Effects of ice volume and mantle dynamic topography
1430-1450	Jonathan Schueth - University of Nebraska Omaha	Paleoshorelines of the North American Western Interior Seaway: Muddying the Waters and Mistaking Absence of Evidence for Evidence of Absence
1450-1530	Discussion - updating global sea-level curves	
1530-1600	Coffee	
1600-1630	Alessio Rovere - Ca' Foscari University of Venice	Invited talk: Observing the geological past to predict a warmer future
1630-1650	Georgia Grant - GNS Science	Reduce magnitude of the onset of Northern Hemisphere glaciation during the Early Pleistocene
1650-1720	Dierdre Ryan - University of Pisa	A Pleistocene sea-level record from the archaeologically significant Balzi Rossi, north-western Mediterranean
1720-1730	Wrap up	

DAY TWO – Tuesday 7th February

0900-0915	Registration	
0915-0920	Welcome	
0920-0950	Nicky Wright – University of Sydney	Invited talk: Long-term changes in sea level based on based on reconstructions of paleobathymetry and ocean basin volume since the Mesozoic.
0950-1010	Natasha Barlow – University of Leeds	Rates and drivers of Last Interglacial relative sea-level change in North West Europe: fingerprinting Antarctic ice sheet melt
1010-1030	Tina van de Flierdt - Imperial College London	Sensitivity of the West Antarctic Ice Sheet to +2°C (SWAIS 2C)
1030-1100	Coffee	
1100-1130	Sarah Bradley – University of Sheffield	Invited talk: Quaternary sea level, ice sheets and glacial isostatic adjustment models
1130-1230	Poster flash talks and online poster session	
1230-1330	Lunch	
1330-1400	Florence Colleoni - National Institute of Oceanography and Applied Geophysics	Invited talk: Long-term changes of Antarctic ice sheet's contribution to global sea level rise: when the past meets with the future
1400-1420	Ivan Haigh – University of Southampton	Changes in sea level and its impact on London
1420-1440	Prince Emeka Ndimele - Lagos State University	Vulnerability, Resilience and Adaptation of Lagos Coastal Communities to Flooding
1440-1500	Stephen Hencher - University of Leeds; University of Hong Kong	Reliability of sea level measurements and consequences for climate modelling into the future.
1500-1530	Coffee	
1530-1600	Rob DeConto - University of Massachusetts, Amherst	Invited talk: A paleo-perspective on the sensitivity of the Antarctic Ice Sheet to climate warming
1600-1700	Discussion (and wrap up) - palaeo sea level for the future	

Posters – *timing to be updated and dependant on whether presenting author is present in person or virtually*

Author	Poster title
Augustus Wilson - Independent Consulting Geologist	Interaction of Eustasy and Subtle Tectonics, Evolution of Middle Late Jurassic Arabian Intrashelf Basin
Douwe van der Meer - CNOOC	Long-Term Phanerozoic Global Mean Sea Level: Insights from Strontium Isotope Variations and Estimates of Continental Glaciation
Ed Gasson – University of Exeter	Constraining the amplitude of Antarctic Ice Sheet change during warm intervals of the Pliocene
Fermin Alvarez Agoues - Trinity College Dublin	Surface distribution of modern intertidal saltmarsh foraminifera in Southern Ireland: Development of a regional dataset and implications for relative sea level reconstructions
Fred Richards - Imperial College London	Can Correcting for Mantle Dynamics Reconcile Divergent Plio-Pleistocene Sea-Level Estimates?
Graham Rush - University of Leeds	Did drainage of Lake Agassiz-Ojibway drive the 8.2 ka climate event? Evidence from a sea-level reconstruction in northwest Scotland
Guillaume Jouve, Exail Geosciences Project	O’Coral Rings: Where Art Thou?
Jamie O'Neill - University of Exeter	Modelling the Antarctic ice sheet under warm Pliocene climate
Jim Marschalek - Imperial College London	A Large West Antarctic Ice Sheet Explains Early Neogene Sea-Level Amplitude
Jim Marschalek - Imperial College London	Pliocene Antarctic Sea Level Contribution inferred from Quantitative Sub-Ice and Marine Sediment Provenance Tracing
Joshua Solomon Avong - Ahmadu Bello University	Early to Late Miocene Biostratigraphy in the Niger Delta by integrating foraminifera bioevents and Paleoceanographic Implications
Malcolm Hart - University of Plymouth	Indicators of sea level change in the areas bordering the Western English Channel
Martina L. G. Conti – University of York	Sea-level changes: molecular approaches to tell us the how and the when
Matteo Vachii – University of Pisa	Millennial variability of the sea-level changes along the western African coast
Merula Penning - Cardiff University	Resolving disparate sea level estimates from the earliest Pleistocene
Olga Pepple - Rivers State University	Changes in Global sea level and mitigating factors
Ray Zammit - Cardiff University	Regional hydrology changes following the Middle Miocene glacio-eustatic sea level fall (13.8 Ma)
Robert John Morley - Palynova Ltd	Sea- and lake-level changes driven by glacio-eustasy provide a pulsebeat of transgressive-regressive cycles that enables precise stratigraphic correlation within Southeast Asian continental margin and lacustrine sediments.
Sophie Slater - Cardiff University	Southern Ocean Response to Antarctic Glaciation at the Eocene-Oligocene Transition
Tijn Berends - Utrecht University	Distilling sea level changes from benthic $\delta^{18}\text{O}$
Yang Zifei - Cardiff University	The impact of foraminiferal diagenesis on reconstructions of past sea level



THANK YOU

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