NUS National University of Singapore | Department of Biological Sciences
Faculty of Science

Map to Block S3

SEMINAR

Fri, 27 Mar 2026 | 10 am | DBS Conference Room 1

Hosted by Assoc Prof Roman Carrasco

The state of the world's mangrove forests

By **Daniel A. FRIESS**

Tulane University

Mangroves provide critical benefits to coastal communities around the world, but have long been considered one of the most heavily threatened ecosystems on the planet. This seminar synthesises our recent research on global mangrove dynamics, quantifying human and climate change impacts on mangrove extent and degradation. There may be cautious cause for optimism, as global mangrove area stabilised and expanded over the last decade. However, climate change stressors such as sea-level rise and more variable ENSO/IOD cycles impact mangrove habitat and functioning, now and in the future. Future habitat dynamics will have substantive impacts on mangrove ecosystem services, particularly blue carbon sequestration and their contribution to climate change mitigation.

About the Speaker

Dan holds the Cochran Family Professorship in Earth and Environmental Sciences at Tulane University, and is the Director of the Center for Public Policy Research. His research concerns mangrove forests, the quantification of blue carbon stocks and fluxes, how blue carbon changes with deforestation and climate change, and the establishment of blue carbon credit and restoration projects. Much of Dan's research has been conducted in Southeast Asia, East Africa and the Pacific. Dan is a member of the IUCN Mangrove Specialist Group and the International Blue Carbon Initiative Scientific Working Group, and he is co-Editor in Chief of the journal WIREs Climate Change. For more information please visit www.themangrovelab.com