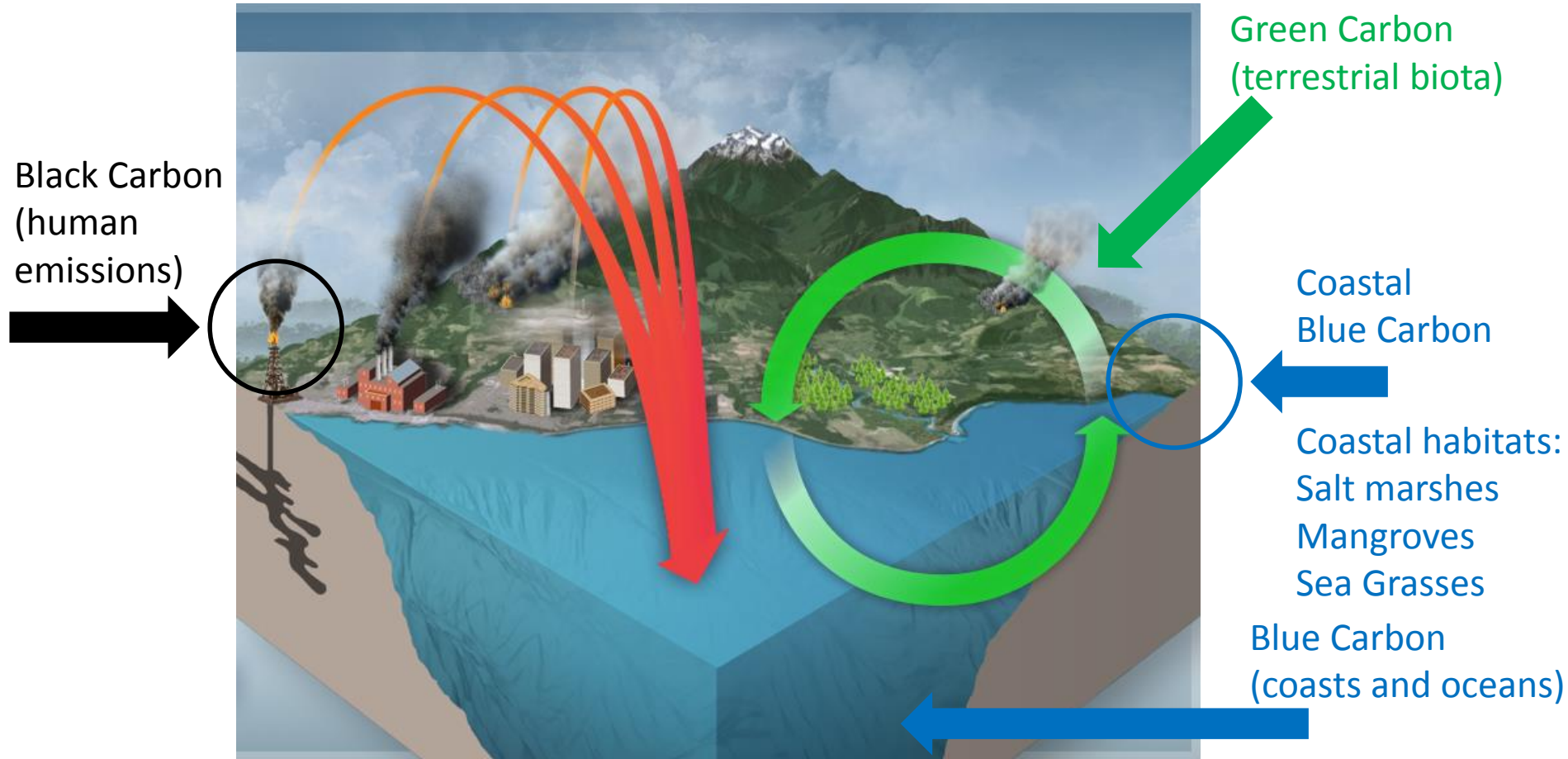


The Promise of Blue Carbon - Climate Mitigation Services as a Potential Driver for Coastal Marine Habitat Restoration and Conservation

Moderator: Ariana Sutton-Grier



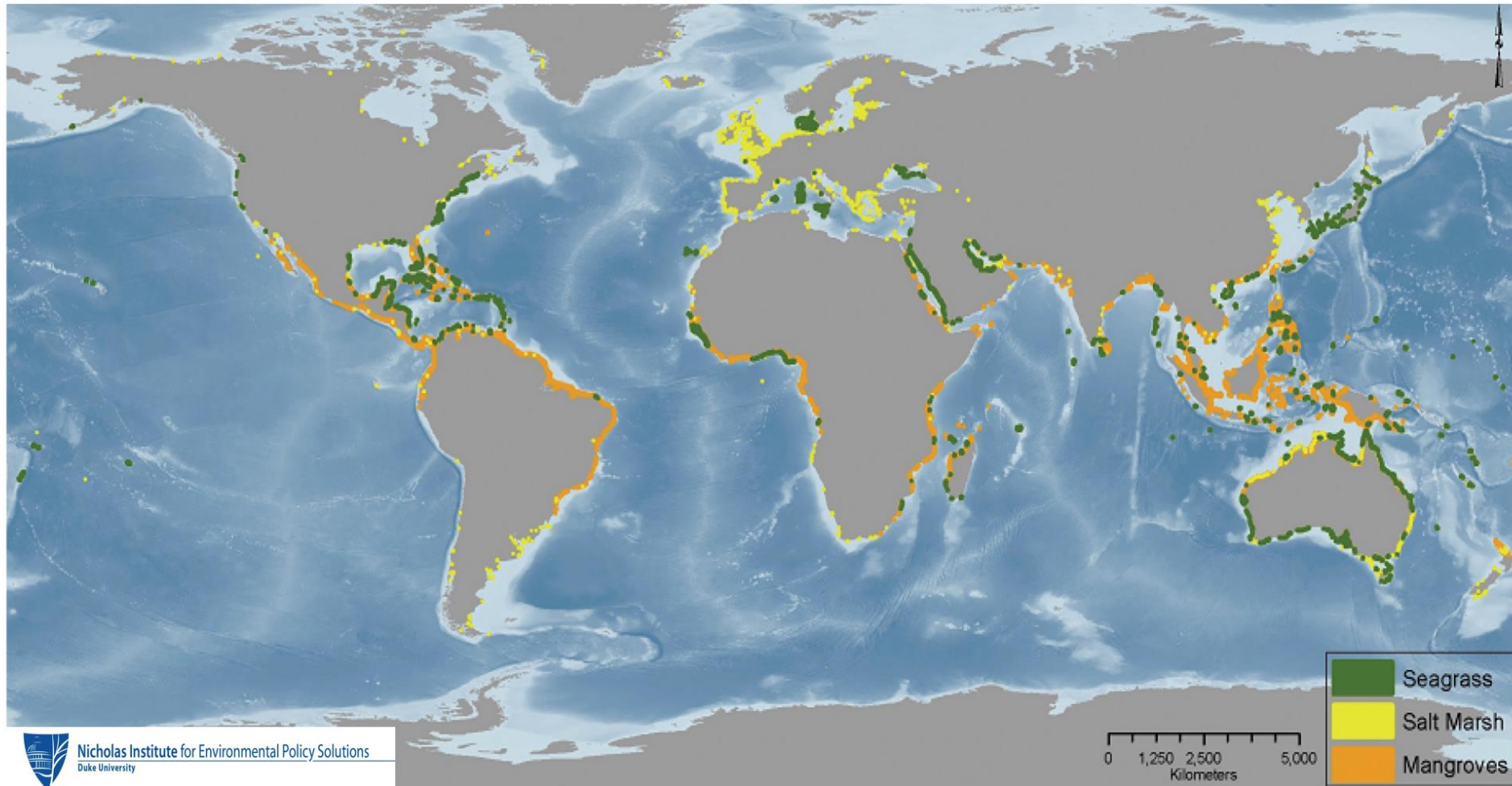
Our Changing Carbon Cycle



www.pmel.noaa.gov/co2/story/Research

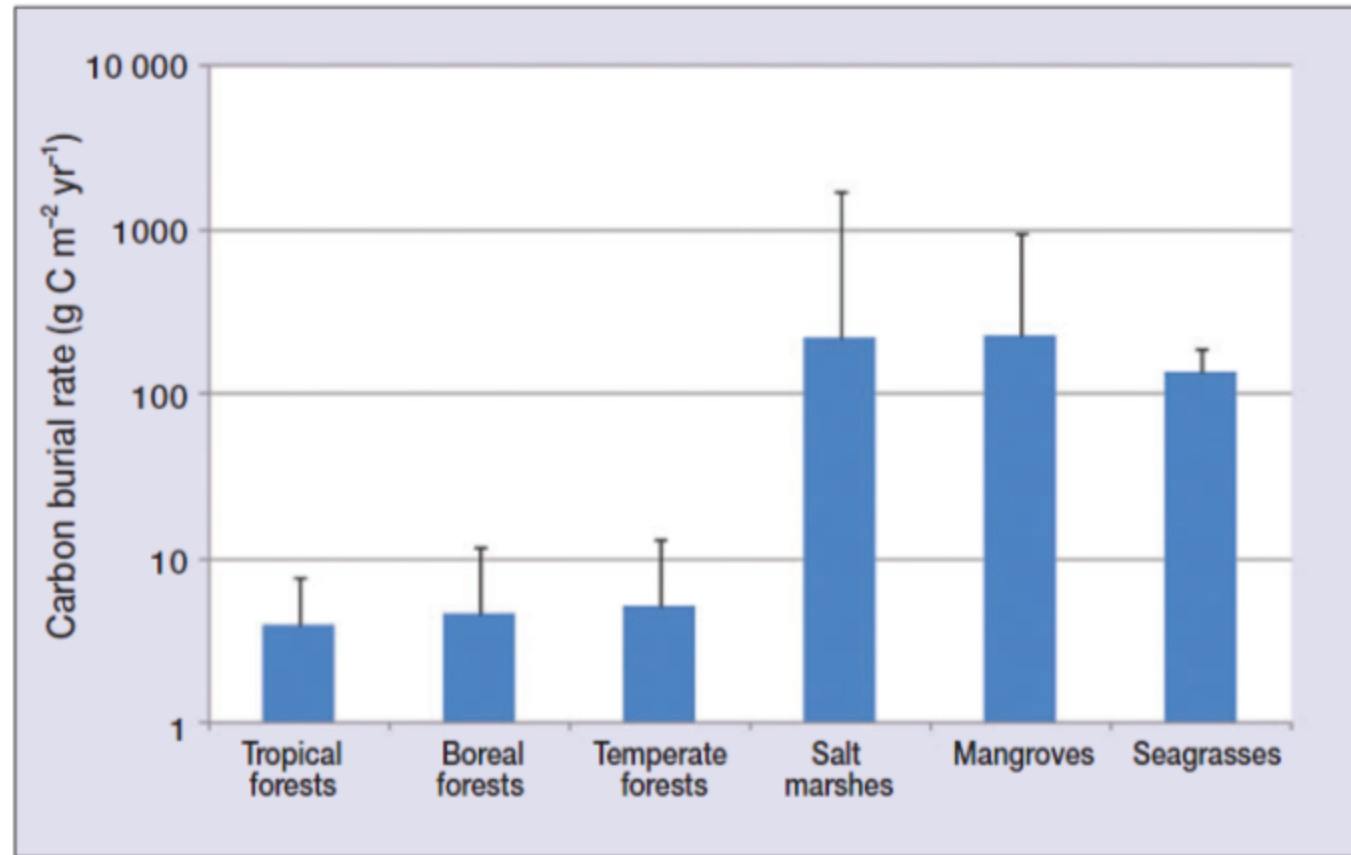
Locations of Coastal Blue Carbon

GLOBAL DISTRIBUTION OF MANGROVES, SALT MARSHES AND SEAGRASSES



Coastal Habitats Sequester Carbon

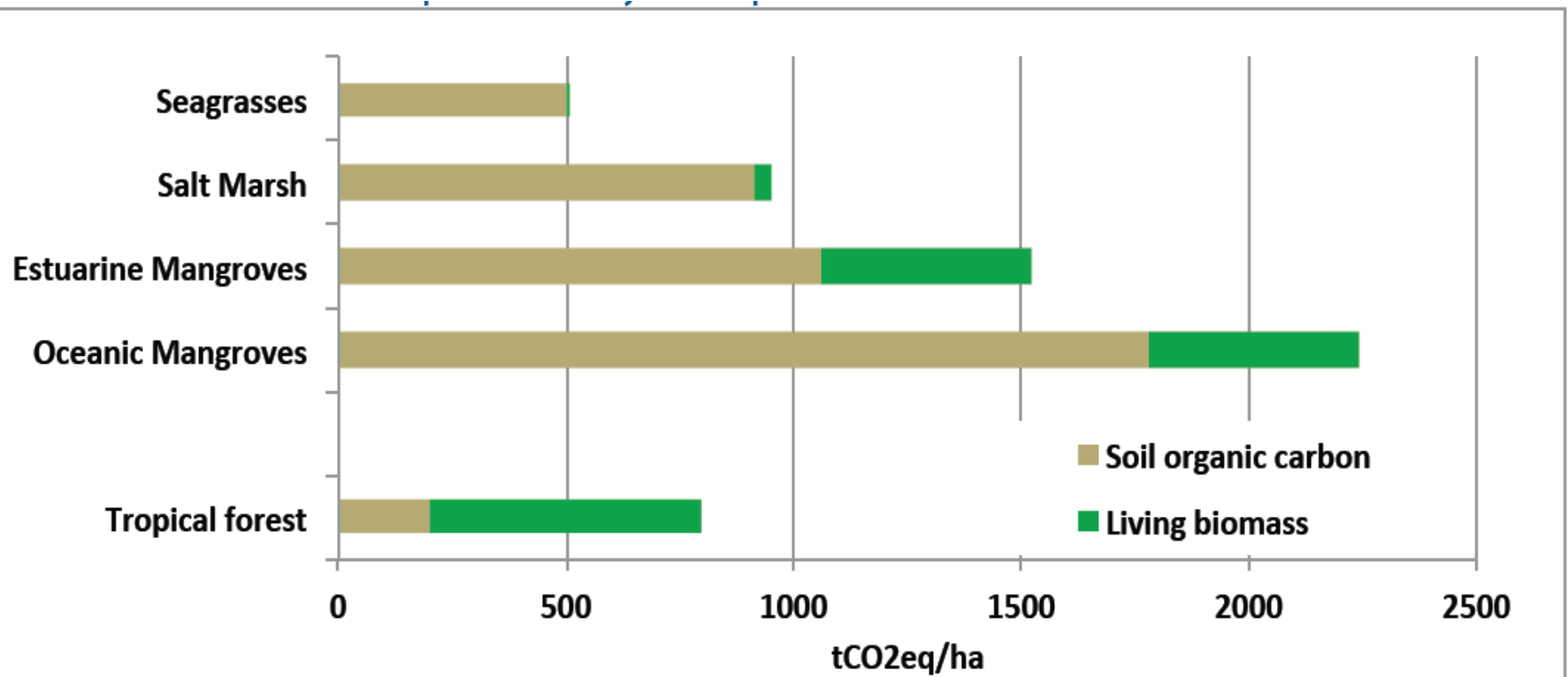
- Smaller total area, but much greater sequestration in coastal blue carbon habitats
- Coastal habitats ~equivalent annual sink to forest systems



McLeod et al. 2011. Frontiers in Ecology and Environment

Coastal Habitats Store Carbon

In coastal habitats, most carbon is stored in sediments and less in biomass



Source: Murray, Brian, Linwood Pendleton, W. Aaron Jenkins, and Samantha Sifleet. 2011. Green Payments for Blue Carbon: Economic Incentives for Protecting Threatened Coastal Habitats. Nicholas Institute Report. NI R 11-04.

Other benefits of blue carbon habitats: habitat, recreation, storm and erosion protection

