
Woods Hole Oceanographic Institution
Biology Department Seminar



Thursday, October 3, 2024 – 12:00 Noon

How Metabolic Evolution Shapes Ocean Ecosystems Over Geologic Time

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Oceanic microbial ecosystems mediate the global cycling of carbon and other elements, shaping Earth, the biosphere and global climate. In this talk I will show how metabolism offers a powerful lens for reconstructing microbial macroevolution and revealing forces that drive self-organization at ecosystem scales. I will primarily focus on highly abundant marine picocyanobacteria and co-occurring heterotrophs that have been co-evolving over the past ~500 million years, a period during which the Earth system as a whole underwent dramatic global change.

HYBRID! In Person: Redfield Auditorium **Zoom:** <https://whoi-edu.zoom.us/j/97000865816> Meeting ID: 970 0086 5816 **By phone:** Find your local number: <https://whoi-edu.zoom.us/u/adlvMow3LQ>