ESS 122/222: Microbes and Climate

Fall 2022; Tuesday 3-4:20 PM
New 1-Unit Seminar
Dr. Emily Zakem, Dr. Elena Litchman, and Dr. Anne Dekas

- Read and discuss 1-2 papers weekly on the complex relationship between climate and microorganisms in diverse habitats (land, sea, lakes, etc.)
- Topics include: the long-term co-evolution of microbial metabolism and climate; impacts of current climate change on microbial physiology, community dynamics and ecosystem function; feedbacks between microbial communities and anthropogenic greenhouse gas emissions; empirical and modeling methods linking microbial activities to climate dynamics; feasibility of leveraging the power of microbes to mitigate climate change.
- Hone skills in critical reading of primary literature, presenting papers, and scientific discussion
- Meet and interact with other microbe/climate researchers

Open to graduate students and upper-level undergraduates with instructor permission. Prior experience in research or critical literature review is required. Contact instructors with questions.