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Department of Marine Sciences
Presents a Seminar by

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From microbes to mammals: Merging in situ and spaceborne observations for monitoring life in the sea

Governments and interest groups around the world have recognized the need for information to assess changes in ocean ecosystems and forecast species populations and biological communities as part of national biodiversity action plans and to advance ocean-based economies. The development of strategies to achieve targets of the U.N. Sustainable Development Goals (including SDG 14) and those of the Post-2020 Agenda of the Convention on Biological Diversity require high quality, standardized, timely and publicly available marine biodiversity information and data. The Marine Biodiversity Observation Network (MBON) aims to respond to these needs by applying best practices in the collection, management and application of biodiversity observations to ensure the sustainable use of marine living resources and support conservation efforts. The network is developing novel genomic, image-based, and satellite remote sensing applications to characterize and monitor marine life across ocean habitats, and develop biodiversity indicators based on these observations. MBON is promoting and supporting the establishment of communities of practice that build knowledge and understanding on the status and trends of biodiversity using different types of observations, including traditional techniques such as fish and benthic scuba surveys, plankton net tows and microscopy counts, and more novel methods based on flow cytometry, photo imagery and video footage, passive and active acoustics, environmental metabarcoding (eDNA), and satellite remote sensing for animal tracking and biogeographic seascape ecology.

Host: Ann Bucklin

Time & Date: 11:00 am, Friday, November 20, 2020

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<http://s.uconn.edu/1208uconnmarineseminar>

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