

Soundscapes: 2023 DOSITS Webinar Series

Characterizing underwater soundscapes on a global scale

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Webinar Outline

- What is a soundscape?
 - o History of the use of soundscapes
 - o What are soundscapes? – Discovery of Sound in the Sea (<https://dosits.org/science/sounds-in-the-sea/what-are-soundscapes/>)
 - o Modeling and Prediction of Ocean Ambient Sound – Discovery of Sound in the Sea (<https://dosits.org/resources/resource-categories/meetings/decade/>)
- Why care about the soundscape?
 - o Human perspective
 - o What sounds can people hear? – Discovery of Sound in the Sea (<https://dosits.org/science/measurement/what-sounds-can-we-hear/>)
 - o How do people and animals use sound in the sea? – Discovery of Sound in the Sea (<https://dosits.org/science/sounds-in-the-sea/people-animals-use/>)
 - o How is sound used to study coral reefs? – Discovery of Sound in the Sea (<https://dosits.org/people-and-sound/investigate-marine-animals/how-is-sound-used-to-study-coral-reefs/>)
 - o Animal perspective
 - o What sounds can animals hear? – Discovery of Sound in the Sea (<https://dosits.org/science/measurement/what-sounds-can-animals-hear/>)
 - o How do marine animals use sound? – Discovery of Sound in the Sea (<https://dosits.org/animals/use-of-sound/how-do-marine-animals-use-sound/>)
 - o Why is sound important to marine animals? – Discovery of Sound in the Sea (<https://dosits.org/animals/importance-of-sound/why-is-sound-important/>)
 - o How do people and animals use sound in the sea? – Discovery of Sound in the Sea (<https://dosits.org/science/sounds-in-the-sea/people-animals-use/>)

Marine Mammal Communication – Discovery of Sound in the Sea

- Highlights of soundscape research
 - o Spatial
 - o Temporal
 - Bertucci, F., Parmentier, E., Berten, L., Brooker, R. M., & Lecchini, D. (2015). Temporal and spatial comparisons of underwater sound signatures of different reef habitats in Moorea Island, French Polynesia. PLoS ONE, 10(9), e0135733. (<https://doi.org/10.1371/journal.pone.0135733>)
 - o Spectral
- Future soundscape outlook
 - o MANTA (<https://bitbucket.org/CLO-BRP/manta-wiki/downloads/>)
 - o Soundscape Code

Additional Resources

Introduction to Signal Levels – Discovery of Sound in the Sea

(<https://dosits.org/science/advanced-topics/introduction-to-signal-levels/>)

What are common underwater sounds? – Discovery of Sound in the Sea

(<https://dosits.org/science/sounds-in-the-sea/what-are-common-underwater-sounds/>)

Jennifer L. Miksis-Olds Publications

(<https://ccom.unh.edu/user/2529/publications>)