

## Locating Vocalizing Animals Underwater – ARLs Development of Technology and its Deployment in the Field

**By Dr Matthias Hoffmann-Kuhnt**

Senior Research Fellow, Acoustics Research Lab (ARL),  
Tropical Marine Science Institute, NUS

Date: 9 November 2023, THURSDAY

Time: 4PM

Format: Hybrid

Venue: Conference Room, S2S  
Building, 18 Kent Ridge Road,  
Singapore 119227



Registration: <https://shorturl.at/dLVY9>

### **ABSTRACT:**

One of the big problems for researchers that study the behavior of whales and dolphins in the field is the difficulty to identify the animals that are vocalizing – which is essential in trying to understand the complex social behavior that these species exhibit. Over the past 20 years ARL has developed recording technology that allows us to identify a sound source and overlay the location of the source onto video. This technology has been deployed in different configurations with humpback whales in the Dominican Republic and in Hawaii, and with spotted dolphins, bottlenose dolphins and spinner dolphins in the Bahamas and in Hawaii over several seasons. Examples of deployments with each species will be shown and possible future uses of the technology will be discussed.

### **About the Speaker:**

Matthias received his masters degree in Zoology from the University of Regensburg, Germany and a PhD from the University of Berlin, Germany . Before joining TMSI, he worked at KBMML in Hawaii for 10 years where he was involved in cognitive and sensory research on bottle-nosed dolphins and behavioural fieldwork with Humpback whales.

Research Papers: <https://arl.nus.edu.sg/people/matthias-hoffmann-kuhnt/>