海洋声景分析的若干研究进展
Selected Advances in Marine Soundscape Analysis

东方环境大讲堂系列讲座
EIT Distinguished Environmental Lecture Series



徐文/Wen Xu

时间/Time
2026.10.27 13:00-14:30 PM
地点/Venue
盛威楼202教室
Room 202, Safewell Building

个人简介/Biography

徐文，中国科学院深海科学与工程研究所研究员，前沿技术首席科学家，深海科学与智能技术全国重点实验室副主任。先后任职中国科学院声学研究所，美国麻省理工学院，美国德力台技术公司，浙江大学，从事海洋声学、无人潜水器及水下传感器网络等领域基础理论与前沿技术研究。曾任国家863计划海洋环境监测技术主题专家组组长、教育部科技委地学与资源学部委员、基金委信息学部水声项目群指导专家等职。

Xu Wen is a Researcher and Chief Scientist for Frontier Technology at the Institute of Deep-sea Science and Engineering, Chinese Academy of Sciences, and Deputy Director of the State Key Laboratory of Deep-sea Science and Intelligent Technology. He has worked at the Institute of Acoustics (CAS), MIT, TELEDYNE TECHNOLOGY INC., and Zhejiang University, and has long conducted basic theoretical and frontier technological research in marine acoustics, unmanned underwater vehicles, and underwater sensor networks. He formerly served as Head of the Ocean Environment Monitoring Technology Expert Group under China's National 863 Program, a member of the Earth Science and Resources Division of the Ministry of Education's Science and Technology Commission, and a steering expert for the Underwater Acoustics Program of the Information Science Department of the National Natural Science Foundation of China.

摘　要/Abstract

水下声景包括但不限于水下动物发声，船舶、海洋工程、军民用声呐等人类活动的声音，地震、海啸、台风、冰裂等自然现象引起的声音。这种刻画提供了丰富的发声海洋生物、海洋动力变化、海底地质过程以及人类活动信息。报告结合近年来在舟山、南海及南北极开展的试验，介绍海洋声景分析的若干研究进展，探讨后续发展方向。

Underwater soundscapes include sounds from marine animals, ships, offshore engineering, military and civilian sonar, as well as natural events such as earthquakes, tsunamis, typhoons, and ice cracking. These sounds reveal information about marine life, ocean dynamics, seafloor geological processes, and human activities. Based on recent experiments in Zhoushan, the South China Sea, and the Arctic and Antarctic regions, this presentation reviews progress in marine soundscape analysis and discusses future directions.

主持人/Host

奚传武/Chuanwu Xi

讲席教授、校长助理兼对外合作部部长
环境与可持续工程学院院长
Chair Professor, Vice Provost for Global Engagement,
Dean, School of the Environment and Sustainable Engineering, EIT