

Segment 1. Sources and environmental and socioeconomic aspects of anthropogenic underwater noise

Segment 1: Sources and environmental and socioeconomic aspects of anthropogenic underwater noise Monday PM	
<u>Panellist</u>	<u>Presentation</u>
Dr. Christopher Clark, Director and Imogene Johnson Senior Scientist for the Bioacoustics Research Program, Cornell University	Scientific overview of sound, its sources and how it propagates underwater
Dr. Richard Hale, Director, EGS Survey Group	Underwater Sounds from Submarine Cable and Pipeline Operations
Dr. Lee Kindberg, Head of Environment, Health, Safety and Sustainability, Maersk Line in North America	Shipping as a Source of Anthropogenic Underwater Sound
Dr. Jill Lewandowski, Chief, Division of Environmental Assessment, Bureau of Ocean Energy Management, United States Department of the Interior	Different sources of sound: Offshore energy development
Dr. Larry Mayer, Director, School of Marine Science and Ocean Engineering, Director Center for Coastal and Ocean Mapping, University of New Hampshire	Sonar imaging and ocean mapping

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Tuesday AM

<u>Panellist</u>	<u>Presentation</u>
Dr. Rudy Kloser, Commonwealth Scientific and Industrial Research Organisation, Australia	Potential anthropogenic underwater noise impacts on zooplankton to whales a general overview
Dr. Lindy Weilgart, OceanCare and Department of Biology, Dalhousie University	The impacts of anthropogenic underwater noise on invertebrates, fish, cetaceans and ecosystems in general
Professor Daya Edirisinghe, Chairman, National Aquatic Resources Research and Development Agency, Sri Lanka	Acoustic pollution and its impacts on marine life
Dr. Jonathan Vallarta, Senior Underwater Acoustics Consultant, JASCO Applied Sciences; Senior Lecturer Iberoamericana University	Underwater Acoustic Soundscape of Paradise Reef, Cozumel: A Tool for Assessment, and Conservation Planning
Mr. Adrián Madirolas, Head of the Hydroacoustic Research Office, National Institute of Fisheries Research and Development, Argentina	Review on the impacts of anthropogenic underwater noise on fish
Dr. Peter Tyack, Professor of Marine Mammal Biology Sea Mammal Research Unit, University of St Andrews	Environmental aspects of anthropogenic underwater noise, including impacts on different marine species and ecosystems (cumulative impacts)

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Tuesday PM (3pm-4:30pm)**

<u>Panellist</u>	<u>Presentation</u>
Dr. Joseph Appiott, Associate Programme Officer, Secretariat of the Convention on Biological Diversity	Work Under the Convention on Biological Diversity on Understanding, Minimizing and Mitigating the Impacts of Anthropogenic Underwater Noise on Marine and Coastal Biodiversity
Mr. Nicolas Entrup, Ocean Policy Expert, OceanCare	Socio-economic and cumulative impacts
Dr. Andrew Carroll, Assistant Director, Marine and Antarctic Geoscience, National Earth and Marine Observations Branch, Geoscience Australia	The role of science in domestic policy-making on anthropogenic underwater noise: case studies from Australia

Segment 2. Cooperation and coordination in addressing anthropogenic underwater noise

Segment 2: Cooperation and coordination in addressing anthropogenic underwater noise	
Tuesday PM (4:30 – 6:00 p.m.)	
<u>Panellist</u>	<u>Presentation</u>
Ms. Heidrun Frisch-Nwakanma, Convention on Migratory Species	CMS Guidelines on Environmental Impact Assessments for Marine Noise-generating Activities – a tool for decision-makers
Dr. Stefan Micallef, Assistant Secretary-General/Director, and Mr. Fredrik Haag, Head, Office for the London Convention/Protocol and Ocean Affairs, Marine Environment Division, International Maritime Organization	IMO's work in relation to underwater noise
Dr. Rebecca Lent, Executive Secretary, International Whaling Commission	Addressing impacts of underwater noise on cetaceans: the global approach of IWC

Segment 2: Cooperation and coordination in addressing anthropogenic underwater noise

Wednesday AM

<u>Panellist</u>	<u>Presentation</u>
Cdr. René Dekeling, co-chair of the European Commission expert group TG Noise	Cooperation at European Union level- implementation of the European Marine Strategy
Dr. Nathan Merchant, Principal Scientist, Noise and Bioacoustics Team, Centre for the Environment, Fisheries and Aquaculture, United Kingdom	Regional Approaches (OSPAR)
Ms. Loureene Jones, Manager, Ecosystems Management Division, National Environment and Planning Agency, Jamaica	Cooperation and coordination in addressing anthropogenic underwater noise
Dr. Mariana Melcon, Group leader bioacoustics research line, Fundacion Cethus	Studying anthropogenic underwater noise and its effects on marine mammals in the Argentine Sea and/or in the Southern Ocean
Ms. Carrie Brown, Director, Environmental Programs, Vancouver Fraser Port Authority	ECHO Program – A collaborative initiative to address underwater noise from the shipping industry on Canada’s Pacific south coast

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<u>Panellist</u>	<u>Presentation</u>
Dr. Zo Lalaina Razafiarison, Program General Coordinator, Ocean State Secretary, Madagascar	Madagascar: Challenge to tackle anthropogenic underwater noise
Cdr. René Dekeling, Ministry of Infrastructure and Water Management, Department for Marine and International Water Policy, The Netherlands	International cooperation by The Netherlands building the capacity for management of underwater noise
Mme. Véronique Nolet, Program Manager, Green Marine	Green Marine: addressing the underwater noise generated from shipping activities through a voluntary, multistakeholder reporting initiative
Dr. Howard Rosenbaum, Senior Conservation Scientist and Director of the Wildlife Conservation Society's Ocean Giants Program	Time is of the Essence: Effective Coordination and Cooperation for Mitigating Ocean Noise Impacts
Dr. Frank Thomsen, Senior Scientist and Sales Executive, DHI	The role of industry in managing the impacts of underwater noise on marine life
Dr. Mark Tasker, Vice-Chair, Advisory Committee of the International Council for the Exploration of the Seas	Underwater sound; the role and capacity of the International Council for the Exploration of the Sea