

MU
SEA
UM

AUSTRALIAN NATIONAL
MARITIME MUSEUM



OCEAN
LOVERS
FESTIVAL

2025

Sea Science Student Expo

How to use this worksheet

Navigate to the Sea Science Student Expo Speaker Session recordings online via the link: [Ocean Lovers School Resources](#).

Please complete this worksheet while watching the Sea Science Student Expo Speaker Session recordings online.

Speaker Sessions

Ocean Lovers Festival Website



Researcher examining marine life on Living Seawalls, Sydney Institute of Marine Science

Meg Trethewy - Researcher, Project Restore

The aim of Project Restore is to restore, enhance and regenerate habitats within Sydney Harbour.

Restoration efforts include recovering seagrass meadows, enhancing kelp forests, installing Living Seawalls panels and deploying artificial fish habitats - bringing life back to the Harbour.

What are four ways that humans have impacted on seascapes in Sydney Harbour? And what are their consequences?

What are the four research projects that make up Project Restore? Which ones have happened in Sydney Harbour so far?

Dr. Ariel Pezner - Chancellor's Research Fellow, University of Technology Sydney

What are three major climate change-related threats to coral reefs?

What kinds of tools or methods can oceanographers use to collect data about the ocean?

Dr. Pezner shares her experiences as a marine biogeochemist and coral reef scientist, including the methods she uses to collect data and the topics of her current work on ocean deoxygenation and coral reefs.



Underwater Earth/XL Catlin Seaview Survey/Christophe Bailhache

What types of careers are there in marine conservation besides science?

Why is studying marine biology or science valuable for working in marine conservation?

Arabella Condon - Prevention Researcher, Seabin Foundation Ocean Health Lab and University of Technology Student

My work involves public engagement, education, and research initiatives to drive real change. I'm excited to share insights into plastic pollution and how we can better protect our ocean health.

Kal Glanznig - Co-Creator and Program Manager, Blue Minds



How do you overcome barriers to make a difference?

What are some ways to get started to create change?

Join Kal as he reveals the key lessons in his journey protecting the ocean from getting solar at his high school, helping get plastic banned in NSW, creating a documentary film and recently becoming elected as the youngest Councillor in the Sutherland Shire.

Dr. Louise Tosetto - Researcher, Macquarie University

Bluelined goatfish can switch from a plain white appearance to bold red and white stripes in just seconds. The evidence suggests these fish can see the colour red — and that red signals may help goatfish share information about food and stick together for safety.

Why might goatfish be especially vulnerable to predators?

Did bluelined goatfish have a photoreceptor that was sensitive to red (i.e. a red receptor)?



Lisa Blair OAM - Sailor, Adventurer, and Climate Action Now Campaigner

How much microplastic is created by one bottle cap and what size is a microplastic deemed to be?

What are some of the common ways we contribute microplastic to the ocean and what are some suggestions for how we can fix this?

Lisa is an adventurer and 8 times solo sailing world record holder. Sailing the globe with her boat called Climate Action Now she has witnessed ocean plastic pollution in some of the remotest places on earth. Her world record sail around Antarctica included research to sample for microplastics



Lisa Blair onboard Climate Action Now, Dean Koopman

ACKNOWLEDGEMENTS



These study videos were made possible with a Rolex Grant from Mission Blue.