**Challenger 150**

**A Decade to Study Deep-Sea Life**

**Decade Programme**

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**Lead Institution**

Deep Ocean Stewardship Initiative (DOSI)

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**KEY PARTNERS**

- Schmidt Ocean Institute
- REV Ocean
- Scientific Committee on Oceanic Research
- 68 Research centers & universities

**DECADE CHALLENGES ADDRESSED**

**CHALLENGE 1:** Understand and beat marine pollution

**CHALLENGE 2:** Protect and restore ecosystems and biodiversity

**CHALLENGE 3:** Sustainably feed the global population

**CHALLENGE 4:** Develop a sustainable and equitable ocean economy

**CHALLENGE 5:** Unlock ocean-based solutions to climate change

**CHALLENGE 7:** Expand the Global Ocean Observing System

**CHALLENGE 8:** Create a digital representation of the Ocean

**CHALLENGE 9:** Skills, knowledge and technology for all

**CHALLENGE 10:** Change humanity’s relationship with the ocean

**OCEAN BASINS**

- North Atlantic
- South Atlantic
- North Pacific
- South Pacific

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**Summary**

Challenger 150 is a global cooperative devoted to delivering the science we need to sustainably manage the deep ocean. At its heart is the development of deep-ocean expertise, particularly in economically-developing nations, in order to achieve a global generation of stewards working together to maintain the integrity of deep-ocean ecosystems. Through support of new technologies and expansion of observations, Challenger 150 aims to advance understanding of the diversity, distribution, function and services provided by deep-ocean biota; and to use this new knowledge to educate, inspire, and promote better management and sustainable use of the deep ocean.

Duration: 01/01/2021 - 12/31/2030

**Priority Activities (first 2 years)**

- Engage Early Career Ocean Professionals (ECOPs) in, and extend global capacity for, deep-sea research, particularly in SIDs and LDCs.
- Expand the coverage and frequency of deep-sea biological observations and sampling, specifically focusing on underexplored regions, often in areas beyond national jurisdiction (ABNJ) and EEZs of SIDs and LDCs.
- Build upon existing fundamental ecological understanding of deep-sea ecosystems, including ecosystem services delivered by the deep seas and flows of benefits to society.
- Increase the use of deep-sea knowledge through development of effective pathways for communication between scientists and decision-makers, including use of decision-support tools in modelling deep-sea management scenarios.
- Help develop governance and policies to support sustainable management of the deep ocean.

"With Challenger 150 we aim to train the next generation of deep-sea biologists and create a network of enhanced capacity that enables countries to exercise their full role in international discussions on the use of ocean resources within and outside of their national boundaries."

Kerry Howell (Plymouth University) &
Ana Hilário (University of Aveiro)
Deep Ocean Stewardship Initiative (DOSI)

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www.challenger150.world