



**WHAT IF...**



Our Ocean. Our Planet. Our Future.

# WHAT IF...

...

ADVANCES IN SCIENCE AND TECHNOLOGY HELP HARNESS THE POWER OF THE OCEAN TO REVERSE CLIMATE CHANGE



...

SCIENTISTS, FISHING COMMUNITIES, POLICYMAKERS, AND INDUSTRY WORK TOGETHER TO PRESERVE ENDANGERED ECOSYSTEMS

...

THE OCEAN INCREASES FOOD AND ENERGY SECURITY WITH SUSTAINABLE FARMING, FISHING, AND POWER PRODUCTION



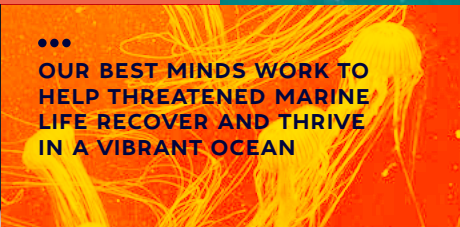
...

LARGE-SCALE OBSERVATION NETWORKS TRANSFORM OUR UNDERSTANDING OF THE OCEAN AND IMPROVE FORECASTING OF EXTREME EVENTS



...

OUR BEST MINDS WORK TO HELP THREATENED MARINE LIFE RECOVER AND THRIVE IN A VIBRANT OCEAN



# ACCELERATING THE SEARCH FOR SOLUTIONS

Woods Hole Oceanographic Institution (WHOI) is the world's premier independent organization dedicated exclusively to ocean research, technology, and education. We combine state-of-the-art science, engineering, and ship operations to unravel the mysteries of the deep and devise science-based solutions to planet-wide problems.



## WHO IS WHOI?

Established in 1930, WHOI is a community of more than 1,000 scientists, engineers, students, and other staff. We operate a fleet of research vessels and vehicles, including two large ships (R/V *Neil Armstrong* and R/V *Atlantis*), a smaller coastal research vessel (R/V *Tioga*), the iconic human-occupied submersible *Alvin*, and dozens of other underwater vehicles.

Our researchers are leading more than 800 concurrent projects around the globe, tackling some of the most challenging and important problems of our time, from climate change and ocean pollution to sustainable food and energy production.

## EDUCATION

Through our higher education programs, including the prestigious MIT-WHOI Joint Program doctoral degree, WHOI is training new generations of ocean leaders, scientists, and engineers by providing access to many of the best minds in ocean science, cutting edge research facilities, and unparalleled access to the sea.

WHOI also plays a leading role in ocean communications and public engagement, providing news and insights to a global audience of educators, policymakers, and the general public numbering in the hundreds of thousands.

## OCEAN SCIENCE FOR THE GLOBAL GOOD

WHOI discoveries have led to important improvements in our environment, commerce, health, and national security.

### NOTABLE ACHIEVEMENTS INCLUDE:

- Designed, built, and continue to operate the iconic, human-occupied submersible *Alvin* for more than 50 years and 5,000 dives
- Led the expedition that discovered the first known hydrothermal vents
- Located the wrecks of *Titanic*, the *San Jose*, Air France 447, the *El Farro*, and many more
- Mounted rapid responses to the Deepwater Horizon oil spill and Fukushima tsunami and nuclear power disaster
- Joined NASA in the search for life on ocean worlds orbiting other planets
- Launched a new mission to understand and explore one of Earth's last great frontiers: the ocean twilight zone
- Ongoing leadership of the Ocean Observatories Initiative, a major research facility of the National Science Foundation delivering real-time ocean data to scientists around the globe from a network of more than 800 instruments



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solving our planet's biggest problems.  
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to the impact you make.

## BECOME A MEMBER!

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