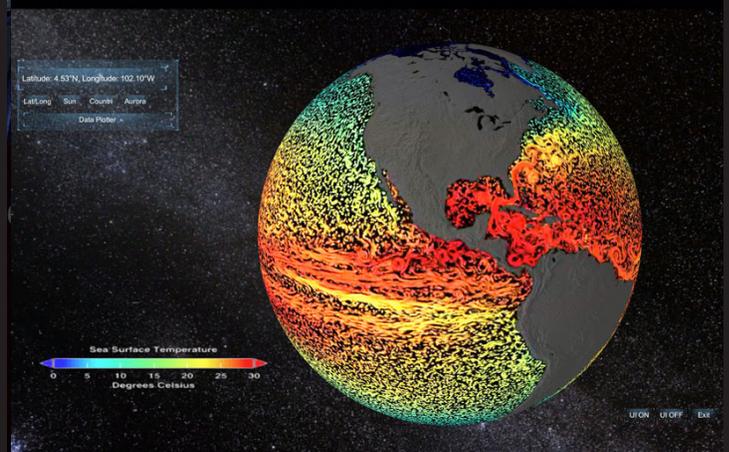


# WORLD OCEAN Observatory™

## 2019

REPORT TO DATE  
OCTOBER



# WORLD OCEAN EXPLORER

# Advocating for the ocean through education and science-based communications

## World Ocean Radio

A long-running weekly series of five-minute audio essays on a wide range of ocean issues from science and education to advocacy and exemplary projects. Hosted by Peter Neill, World Ocean Radio is available for podcast, RSS feed, and syndicated use at no cost to college and community radio stations worldwide. *Early 2019 marks its 500<sup>th</sup> broadcast.*

## World Ocean Forum

Fresh ideas, new solutions, provocative and imaginative conversations about the future of the ocean. WorldOceanForum.org offers an active platform dedicated to proposals for change in ocean policy and action worldwide, linking unexpected people with unexpected ideas, and offering a knowledgeable outlet for research, opinion and storytelling.

## World Ocean Journal

An annual digital magazine on ocean culture and solutions to today's ocean issues. Each volume includes essays, interviews, art, exhibits and more, profiling the vital impacts of the ocean on our lives. Five volumes are available to date. The 2018 issue is dedicated to the principles and concepts contained within the Ocean Literacy framework.

## World Ocean Explorer

World Ocean Explorer is an educational gaming experience that will be free for use in the classroom and at home by ocean enthusiasts ages 10 and up. Inspired by the Next Gen Science Standards and the Ocean Literacy Curriculum, World Ocean Explorer is an immersive gaming experience designed to excite students about scientific ocean exploration and to promote ocean literacy worldwide.

## Global Ocean Awareness Campaign

Building a global community of ocean advocates through programs and educational outreach, networks, special projects, a comprehensive Ocean Curriculum Catalog and educational website, and relentless social media. We're engaging, educating, and communicating important ocean issues and we're reaching ocean stewards, environmentalists, conservationists, scientists, engineers, and thoughtful citizens of the ocean around the globe. *The sea connects all things.*

Celebrating  
16 Years  
in 2019



Raising ocean awareness. Increasing ocean literacy. Fostering optimism. Suggesting solutions. Inspiring global action. The World Ocean Observatory does this and more with energy, efficiency and enthusiasm.

## Mission

The World Ocean Observatory is dedicated to advocating for the health and sustainability of the ocean through an accessible worldwide network of communication. Using various programs and special projects, W2O is committed to building an expansive global community of Citizens of the Ocean. Through education, partnership, information exchange, public connection and relentless communications, we promote ocean awareness to conserve marine resources for the future of all mankind.

## Strategies

- To communicate globally
- To use the efficiency of partnerships and existing structures
- To reach a differentiated audience, locally and worldwide
- To affect the inter-generational transfer of knowledge
- To be science-based and humanities-driven
- To be non-litigious, independent and apolitical
- To advocate through information and education
- To promote civil discourse, peace and security on the ocean
- To be optimally economical in service, personnel, and overhead

## BROADCAST AFFILIATES

WORLD OCEAN RADIO is produced in association with WERU 89.9 FM, Blue Hill, Maine and is distributed via the Public Radio Exchange, the Pacifica Network, Soundcloud, and at the California Academy of Sciences/Steinhart Aquarium; KSER-FM, Everett, WA; WGDR 91.1 FM, Goddard College Community Radio; Erie Maritime Museum; 3CR Melbourne, Australia: Out of the Blue; Waiheke Radio, 107.4 FM, Waiheke Island, New Zealand; Mystic Seaport; iTunes; Geneva Radio; WRFA-LP, Chautauqua County: WUOW-LP, Oneonta, NY; KRFP-LP, Radio Free Moscow, Moscow, Idaho; WRST-FM, University of Wisconsin Community Radio; WAZU 90.7 FM Peoria, IL; South Western Africa's dlist.org; East Coast Africa's dlist-asclme.org; at WorldOceanObservatory.org; KOWA 106.5 FM, Olympia, Washington; 90.5 WERG-FM, Gannon University; WZRD 88.3 FM, Northeastern Illinois University in Chicago; KKFI 90.1 FM, Kansas City Community Radio; WXAC 91.3 FM, Albright College, Reading, PA; The TerraMar Project, the Otter Project, KVNF 90.0, Western Colorado Community Radio; KVGD, Goldendale Community Radio, Goldendale, WA; KRZA 98.7 FM, Community Radio, Alamosa, Colorado; KVOY 104.5 FM, Community Radio, Central Oklahoma; KCEI 90.1 FM, Cultural Energy Media, Northern New Mexico/Southern Colorado; GCR2, Global Community Radio, Clay County, WV; KBOO Community Radio, 90.7 FM, Portland, OR; 104.1 KPPQ, CAPS Radio, Ventura, CA; WHPW, Harpswell Radio, **and our newest broadcast partners:** WTJU 91.1 FM, University of Virginia, Charlottesville; KAOS 89.3 FM, Olympia Community Radio, Evergreen State College, Oregon; KACR-LP, 96.1, Alameda Community Radio, California; WRWK-LP, 93.9, The Work FM, Midlothian, Virginia; KVMR 89.5, Nevada City, CA, and WGRN 89.5, Greenville University Radio, Illinois.



## GLOBAL ADVOCACY



## OCEAN HEALTH AND SUSTAINABILITY

World Ocean Radio is a weekly audio feature for web and podcast listeners, and for worldwide distribution through college and community radio stations and partners. Presented by longtime host Peter Neill, World Ocean Radio offers a unique perspective on important and relevant ocean issues such as the health of our watersheds and coastal pollution; the consequences of an industrialized world; sea level rise and extreme weather; the plastic pollution crisis; threatened pristine waters in our quest for more and cheaper fossil fuels; overfishing around the world; what happens out of sight on the high seas; Arctic health and its indigenous peoples; threats to the biodiversity of the world's species. Much of the news is dire, but we also eagerly share the good work being done around the world: coastal communities with innovative adaptive technologies for a changing landscape; preservation and celebration of maritime heritage on a global scale; more science-driven attention being given to our changing climate; innovative technological responses to renewable energy; community resilience; expanded efforts worldwide to reduce marine plastic; countries dedicated billions of dollars to protect marine areas and sustainable fisheries. And there is much more. We have produced nearly 500 episodes to date and we look forward to 500 more.

World Ocean Radio broadcasts offer meaningful, relevant, science-based information, news and commentary about the state of the world ocean. We offer first-person essays that report on the issues we're most concerned with today: ocean acidification, overfishing, hydro-fracking, threats of extinction, policy and governance, cultural tales that inspire, innovative technologies, plastic pollution, and more. The common thread in each radio broadcast is relevant information for each of us on the planet about the state of our world ocean.





**BOLD AND  
ENGAGING  
CONVERSATIONS**



**ABOUT THE  
FUTURE OF  
THE OCEAN**

**WORLD OCEAN FORUM CONTRIBUTORS**

E.O. Wilson, *The Half-Earth Project*; Doug Woodring, *The Ocean Recovery Alliance*; Ashley Cooper, *Images from a Warming Planet*; Mark Spalding, *The Ocean Foundation*; Mia Bennett, *Cryopolitics*; Thor Sigfusson, *Iceland Ocean Cluster*; Mark Spaulding, *The Ocean Foundation*; Nishan Degnarain, *World Economic Forum*; Giulio Boccaletti, *The Nature Conservancy*; John Bohorquez, *The Blue Economy*; Krisanne Baker, *Eco Artist*; Joe Quirk, *Seasteading Institute: Floating City Project*; Fred Bahnsen, author, *Ocean Frontier Institute*; Paul Mayewski, *Climate Change Institute*; Andrew Kornblatt, *Online Ocean Symposium*; Doug Struck, *Pew Charitable Trust*; *Conservation International*; David Wolman, *Biographic* and many more.

**THOR SIGFUSSON  
ICELAND OCEAN CLUSTER**



**Understanding Problems,  
Developing Solutions**

by Thor Sigfusson, Founder and  
Chairman, Iceland Ocean Cluster

**LINCOLN PAINE**



**Sea Trade: How Do We Value  
the Ocean?**

by Lincoln Paine, author and maritime  
historian

**MICHELLE BENDER  
EARTH LAW CENTER**



**An Introduction to  
Ocean Rights**

by Michelle Bender, Earth Law Center



**MATTHEW BALLEW ETAL  
YALE CLIMATE CHANGE 360**



**Why Do Some People Become  
Citizen Activists?**

What leads people to become active  
citizens on climate change? In this paper,  
researchers investigate and compare a  
variety of potential...

**GIULIO BOCCALETTI  
THE NATURE CONSERVANCY**



**Why We Need to Think Bigger  
to Protect the World's Water**

by Giulio Boccaletti, Chief Strategy  
Officer and Global Managing Director  
The Nature Conservancy

**CRISPIN DOWLER  
UNEARTHED**



**Revealed: Meet the  
Millionaires Hoarding  
Fishing Rights in the U.K.**

As the UK prepares to leave the EU,  
policy makers grapple with fishing  
policy and a future with equitable

World Ocean Forum is a place for key ocean voices to contribute to an active forum of opinion, ideas, and proposals for change in ocean policy and action worldwide. We invite opinion, research, storytelling and journalism as vehicles for communicating the climate and ocean message.



Tundi Agardy, PhD  
Sound Seas

In late 2019, Tundi Agardy will join the World Ocean Forum as the new Managing Editor. Ms. Agardy works at the interface between science and policy in marine systems around the world. She is an internationally renowned expert in marine conservation, with extensive field experience in Africa, Asia, the Caribbean, the Mediterranean and North America. Her major research interests and publications focus on coastal and marine planning, ocean zoning, marine protected areas, ecosystem services, and marine ecosystem based management. She will be an instrumental member of the team moving forward and we are excited at the prospect of her collaboration.

World Ocean Forum links unexpected people with unexpected ideas. In 2018 we published works from E.O. Wilson of the *Half-Earth Project* discussing the eight million species we don't know. He argues that the only way to reverse an extinction crisis is through a conservation moonshot, by enlarging the area of Earth devoted to the natural world enough to save the variety of life within it. Doug Woodring of the *Ocean Recovery Alliance* shared his group's mission to demand corporate responsibility for the plastic pollution crisis and to shame businesses into ceasing their involvement in shark finning practices in Asia and beyond. Thor Sigfusson of the *Iceland Ocean Cluster* submitted a piece on Iceland's policies for using 100% of the fish and finding encouraging ways to inspire other countries to engage in similar sustainable fisheries practices. The list goes on. We continue to add new contributors to the platform each month and in early 2019 will be launching a brand new platform.

We hope you will have the opportunity to visit [worldoceanforum.org](http://worldoceanforum.org). With a new look, a new structure, and a new managing editor, we are looking forward to the future of the Forum: with your help we are building an exciting new platform for great ocean minds to share ideas, innovations, and the possibility of solutions yet to discover.



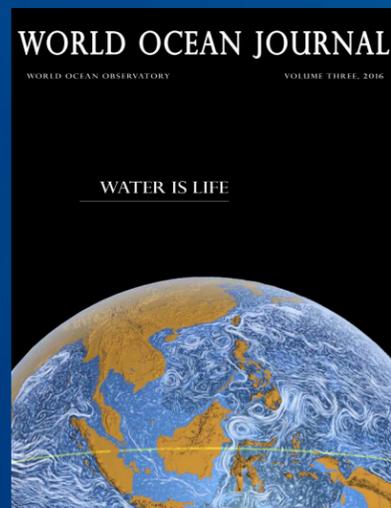
### VOLUME 1 INAUGURAL ISSUE

This first volume includes essays, interviews, art, music, exhibits and performances in a vital profile of the impact of the ocean on our lives. We introduce exemplary ocean advocates, describe innovative projects, and offer perspectives and ideas to help us understand the full extent of the ocean crisis and to suggest solutions, actions and alternative approaches.



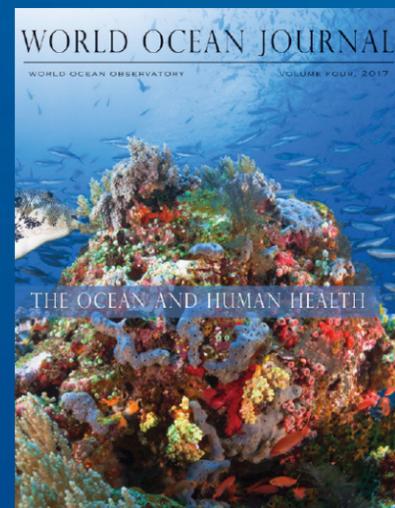
### VOLUME 2 ISLANDS

Volume 2 of the Journal evokes islands in many forms. We begin at the United Nations with a Keynote Address by President Remengesau on the future of Palau; we examine the impacts of the island of plastic garbage in the Pacific; we review a new and provocative book about remote islands; and we offer observations on islands as a state of mind, set apart in space and time.



### VOLUME 3 WATER IS LIFE

This year's edition is all about water, the world's most promising and imperiled natural element. This issue focuses on the inter-connected cycles of water; profiles modern solutions toward a new hydraulic society; discusses the fundamental questions about water issues; and offers ideas for a new relationship built around fresh water and the ocean: new modes of living that are within our grasp.



### VOLUME 4 THE OCEAN AND HUMAN HEALTH

In Volume 4 we focus on the many ways the ocean impacts human health and well-being. Our hope with this volume is to broaden perspectives and expand the conversation about the importance of a robust ocean for our physical and social health, the health of the planet, and for our very survival.

## AN ANNUAL DIGITAL MAGAZINE



## DEDICATED TO OCEAN SOLUTIONS

### VOLUME 5 OCEAN LITERACY

*WORLD OCEAN JOURNAL* is an annual digital magazine on ocean culture and solutions to today's ocean issues. Its purpose is to profile the various and vital impacts of the ocean on our lives. Each volume may include essays, interviews, art, curated research, exhibits, stories, reviews, performances and more in a vital profile of the impact of the ocean on our lives. We introduce exemplary ocean advocates, describe innovative projects, and offer perspectives and ideas to help us understand the full extent of the ocean crisis and to suggest solutions and actions to mitigate destructive behaviors and to offer alternative approaches.

In October of 2018 we released our fifth volume: an issue dedicated to the seven principles of Ocean Literacy. In it we demonstrated each principle through expert commentary and highly illustrative use of compelling maps, graphs, charts, photos and videos to convey the concepts contained therein. *World Ocean Journal* is designed to create thought-provoking, eccentric content that we hope will fascinate, inspire, and be of use for educators, students, policy makers and *Citizens of the Ocean* everywhere.





## ABOUT

WORLD OCEAN EXPLORER is an educational gaming experience, free for use in the classroom and at home by ocean enthusiasts ages 10 and up. Simulate a walk through a deep ocean aquarium, find marine species rarely seen; engage with ocean systems; click through to educational content and curriculum; and board a manned submersible for exploration of a variety of ocean environments.

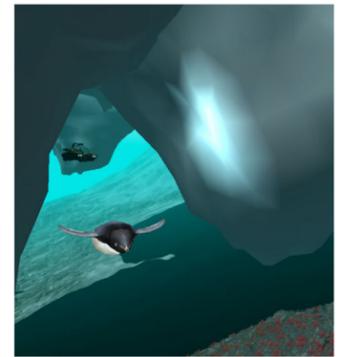
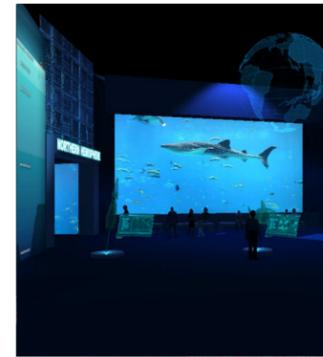
Inspired by the Next Gen Science Standards and the Ocean Literacy Curriculum, WORLD OCEAN EXPLORER is an immersive gaming experience designed to excite students about scientific ocean exploration and to promote ocean literacy worldwide. Aboard the submersible, complete goal-driven mission scenarios or conduct free-play explorations. Choose a locale: a polar sea, a tropical coral reef, a hydrothermal vent at the deepest depths of the ocean, a shipwreck on the seafloor, an oil spill at an offshore rig...all the while gathering samples and data for use in the classroom.

## VISION

Our goal is to distribute Explorer in traditional classroom and home school environments (via laptop or PC) with future expansion to include additional educational modules and the potential for a virtual reality experience. WORLD OCEAN EXPLORER is designed for ease of use, download, and cost efficiency. The platform will be available absolutely free of charge to any educator who wishes to increase ocean literacy and foster interest in ocean systems in their classroom.

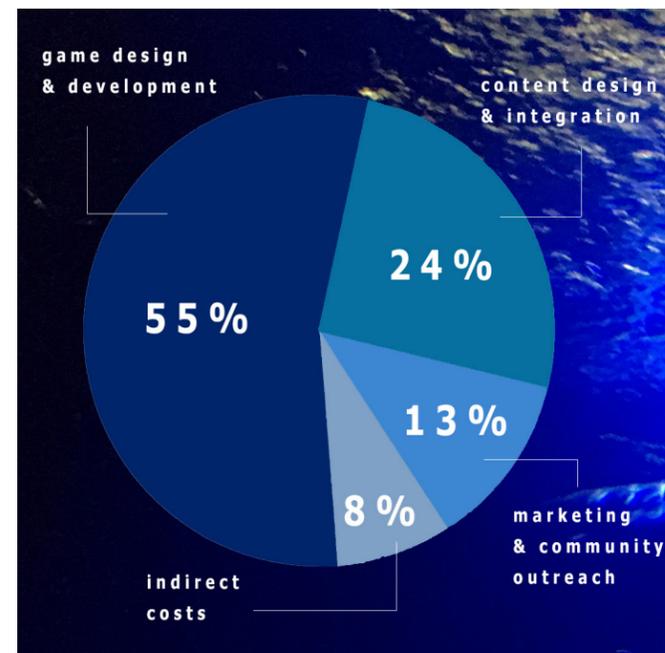


[www.worldoceanobservatory.org/world-ocean-explorer](http://www.worldoceanobservatory.org/world-ocean-explorer)



WORLD OCEAN EXPLORER is designed to increase ocean literacy and interest in ocean fields of study. Visitors will be able to engage with the marine environment through interactive displays, learning about species and habitat not otherwise available for display in an aquarium setting.

A beta version of Explorer will be available upon completion of Phase II. This version will include a basic interactive aquarium and game space with a variety of aquarium environments and mission scenarios aboard an ROV. The aquarium will have a variety of tanks with species both common and rarely seen. There will be information on ocean systems; interactive displays for learning about species and habitat; and curriculum links for further study and exploration. Further advancement of the project (to include virtual reality, a projection element for use in larger public spaces, and an educational theater within the platform) will take place after the beta version is launched and further funding is acquired. WORLD OCEAN EXPLORER has the potential to use the Internet to bring together an ocean literacy community of users not limited to formal classroom structures, limitations, budgets, and proximity to ocean aquariums around the country.



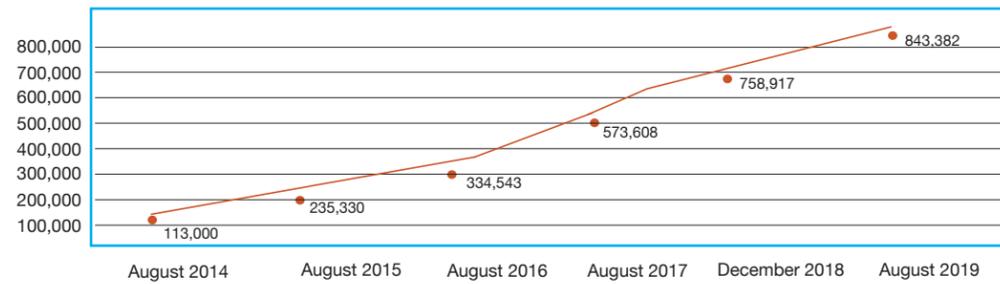
## BUDGET

The overall budget for all phases of World Ocean Explorer is \$250,000. This project budget reflects costs for Phase II of World Ocean Explorer development (beginning in April 2019) and represents game development, content integration, and beta deliverable.

Cost for Phase II: \$98,000.

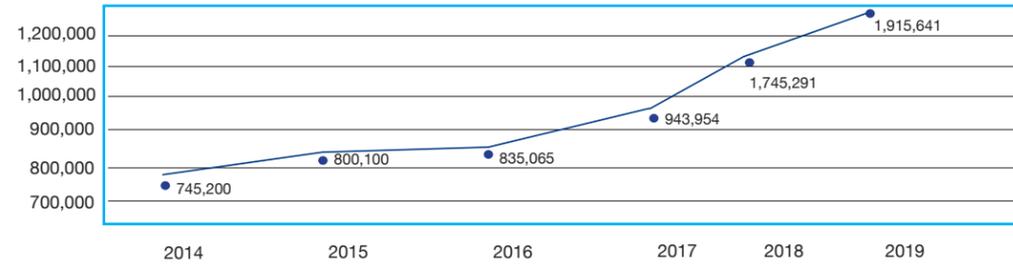
**FACEBOOK FOLLOWERS**

Aug 2014: 113,000  
 Aug 2015: 235,330  
 Aug 2016: 334,543  
 Sep 2017: 573,608  
 Dec 2018: 758,917  
 Aug 2019: 843,382



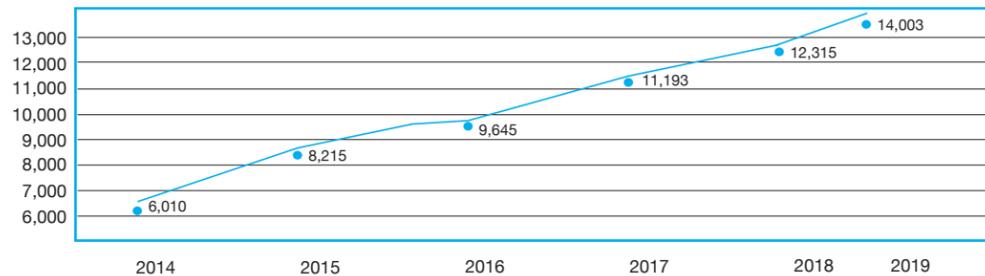
**WEBSITE VISITATION**

2014: 745,200  
 2015: 800,100  
 2016: 835,065  
 2017: 943,954  
 2018: 1,745,291  
 2019: 1,915,641



**E-NEWSLETTER SUBSCRIPTIONS**

2014: 6,010  
 2015: 8,215  
 2016: 9,645  
 2017: 11,193  
 2018: 12,315  
 2019: 14,003



**GLOBAL OCEAN AWARENESS CAMPAIGN**

Since 2003 we have been building a global community of ocean advocates through programs and educational outreach, networks, special projects, and relentless social media on a diverse platform. We reach our constituents via the resources available on [worldoceanobservatory.org](http://worldoceanobservatory.org), on Facebook, LinkedIn, Instagram, Twitter, YouTube, the Public Radio Exchange and the Pacifica Network, through global radio outlets and via podcast platforms everywhere. The Internet has allowed us to reach enormous numbers of people from all walks of life at no cost.

This is the purpose of the W2O: through all of our programs and special projects we endeavor to expand strategies related to sharing resources and teaching tools on ocean issues, conservation and solutions; to build our audience exponentially; to be a catalyst for transformative behavior for the future of the ocean; to foster optimism; to suggest solutions; and to share ocean news far and wide amongst all *Citizens of the Ocean* on earth.



[www.worldoceanobservatory.org](http://www.worldoceanobservatory.org)

**OCEAN AWARENESS TOOLS**



**FOR THE 21<sup>ST</sup> CENTURY**

**GLOBAL REACH MAP**

We enthusiastically continue to take steps toward reaching a broader audience of Citizens of the Ocean worldwide. We do this energetically and relentlessly through World Ocean Radio (which broadcasts its 500th episode in early 2019), through our digital magazine the World Ocean Journal, through the expansion of World Ocean Forum, in development of World Ocean Explorer, an online aquarium and gaming platform for students ages 10 and up, through social media, and so much more. This dynamic, comprehensive, global communications strategy that has been our purpose from the very beginning.



## ADVISORY BOARD

Dr. Tundi Agardy, Chair, South Seas  
Dr. Patricio Bernal, Coordinator, Global Ocean Biodiversity Initiative  
David Conover, Executive Director, Producer, Compass Light Productions  
Peter Davidson, President, Davidson Media Group  
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Commodore Rajan Vir, President, Indian Maritime Foundation  
Dr. Mary Christina Wood, University of Oregon School of Law

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Peter Neill  
Dr. Tundi Agardy  
Trisha Badger  
Mary Barnes  
Matthew Murphy

## STAFF

Trisha Badger, Managing Director  
Peter Neill, Director & Founder

## TAX STATUS & IDENTIFICATION

501(c)(3)  
EIN: 46-5693943

## CONTACT

director@thew2o.net

## RESOURCES

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## FURTHER INFORMATION

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### GUIDESTAR PROFILE

[guidestar.org/profile/46-5693943](https://guidestar.org/profile/46-5693943)

### WORLD OCEAN RADIO

[worldoceanobservatory.org/world-ocean-radio](https://worldoceanobservatory.org/world-ocean-radio)

### WORLD OCEAN FORUM

[worldoceanforum.org](https://worldoceanforum.org)

### WORLD OCEAN JOURNAL

[worldoceanobservatory.org/world-ocean-journal](https://worldoceanobservatory.org/world-ocean-journal)

### WORLD OCEAN EXPLORER

[worldoceanobservatory.org/world-ocean-explorer](https://worldoceanobservatory.org/world-ocean-explorer)

### 2018 CASE STATEMENT | ABOUT THE W2O

[worldoceanobservatory.org/about-w2o](https://worldoceanobservatory.org/about-w2o)

### W2O PARTNERSHIPS & COLLABORATIONS

[worldoceanobservatory.org/partners](https://worldoceanobservatory.org/partners)

### WORLD OCEAN OBSERVATORY AT MEDIUM.COM

[medium.com/@TheW2O](https://medium.com/@TheW2O)

### THE OCEAN AS A CLASSROOM | WORLD OCEAN CURRICULUM GUIDE

[worldoceanobservatory.org/ocean-curriculum-catalogue](https://worldoceanobservatory.org/ocean-curriculum-catalogue)

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## WORLD OCEAN OBSERVATORY

is a major utility for ocean communication as a means to advance public awareness and political will, and is dedicated to providing information and education about the health of the ocean. It is our belief that the sea connects all things. Visit us online at [www.worldoceanobservatory.org](http://www.worldoceanobservatory.org)

# Thank You

W2O has been a part of the conversation about ocean awareness since 2003. More people than ever are aware of their connection to the sea regardless of their proximity to it; to the consequences of the plastic pollution crisis and the imperative to find solutions; more citizens around the world are feeling the effects of climate change: water stress, extreme weather, coastal health, the plight of coral reefs, the transformation of the Arctic; to the imperative for a healthy and vibrant fresh water continuum; and to the many threats to our very existence. We find a remarkable amount of resilience and resolve within a community of concerned Citizens of the Ocean: people around the world are more mindful than ever of the importance of embracing the concepts of ocean literacy, sharing their knowledge and taking action for a healthy ocean. It is our honor and our pleasure to continue serving our growing global community. We are grateful to you, our supporters, for your steadfast advocacy of our programs, projects and endeavors for the future of the world ocean.



@worldoceanobservatory



YouTube

/thew2o



@thew2o



@peter-neill

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