



Dr. David E. Guggenheim, the “Ocean Doctor” – recently featured on 60 MINUTES – offers a unique perspective – from 2,000 feet beneath Alaska’s Bering Sea to the hallways of Washington, DC – on the critical issues facing the world’s oceans today.

Quick Facts

The public is largely unaware that the oceans are in trouble or that there is a growing global seafood crisis, especially when “All You Can Eat” seafood buffets seem to suggest otherwise.

- 75 percent of the world’s fish stocks are overfished, and recent studies predict total **collapse by 2048**.
- **90 percent** of large predatory fish, like tunas and sharks, have been eliminated over the past 50 years
- 75 percent of U.S. seafood is now imported, creating an **\$8 billion** seafood deficit
- The way we catch fish, clear-cutting the bottom of the ocean, is destroying ocean ecosystems, including the **oldest animal alive today**, deepwater corals which can live to be **4,000 years old!**
- Fortunately, consumer choices can make a difference, and the best choices for conservation are usually the **best choices for our health**, such as avoiding **mercury**
- Ocean acidification, caused by the same carbon dioxide increase that threaten’s our climate, is causing an unprecedented increase in the acidity of the oceans, a grave threat that could destroy most coral reefs and upset marine food chains within a few decades
- Roughly 40 percent of the U.S. continent drains into the Mississippi River. Near its mouth, a “dead zone” the size of Massachusetts exists, the result of tons of nutrient pollution from agricultural fertilizers.
- Only 5 percent of our oceans have been explored! New technologies, including a new generation of mini subs, remotely-operated vehicles (ROVs) and even a new “wearable submarine” promise to unlock the deep ocean’s secrets
- On June 12, 2009, **President Obama** established an **Interagency Ocean**

Policy Task Force, led by the White House Council on Environmental Quality, charged with developing a recommendation for a national policy that ensures protection, maintenance, and restoration of our oceans and coasts along with a framework for improved stewardship, and effective coastal and marine spatial planning.

Story Ideas

- **The New Green is Blue:** What the Oceans are Telling Us and Why it Matters
- **Acid Oceans: Climate Change's Evil Twin:** Ocean Acidification – Why it's Considered as Grave a Threat as Climate Change
- **Deep in Enemy Territory: Cuba's Underwater Mysteries** – How Cuba's Coral Reefs May Save Reefs Around the World
- **Beneath *The Deadliest Catch*:** Mystery, Mayhem and Hope 2,000 Feet Below Alaska's Bering Sea
- **Which Fish Should I Eat?** Your Choices, Your Oceans, Your Health

Sample Questions

General

- We still go to the beach, go fishing, and find lots of seafood choices at the supermarket. So are the oceans really in trouble?
- You're a submarine pilot and explorer. Tell us about the technology and what it's like to go 2,000 feet below.
- Is it true we've only explored 5 percent of the oceans? Why is this? Are there plans to explore more?
- Picking a fish to eat that's both safe and sustainable is really confusing. What advice can you give about what we should be eating and avoiding?
- We're hearing more and more about climate change and the role that the oceans play. But we're just starting to hear about another problem that carbon dioxide causes in the oceans – acidification. What is this and is it serious?
- What can you tell us about the Interagency Ocean Policy Task Force established by President Obama in 2009?
- The oceans are so big and this is such a global issue, I imagine the average person doesn't feel very empowered to do anything. What advice can you give us about what we can do in our own lives to help protect and restore the oceans?

Cuba

- You've been working in Cuba for more than a decade, building collaboration in marine research and conservation and sponsoring joint research expeditions in Cuban waters. Tell us more about this work and why it's important.
- You've described your experiences SCUBA diving in Cuba as a "time machine," going back hundreds of years to see what the oceans used to look like. What do you mean by this? Tell us what you've seen there.
- You can't talk about Cuba without mentioning the political situation between Cuba and the U.S. I imagine this has made it difficult to work there. How has it affected your work and what do you see in the future?



Next-Generation Fish Farming

- We keep hearing the oceans are in trouble and that there's a seafood crisis, but there seem to be more choices at the supermarket and you still see the "all you can eat" seafood buffets everywhere. What's going on? Will the oceans be able to continue to feed us?
- We hear conflicting things about fish farming. Is it better to order farmed fish or wild fish at your local restaurant?
- You've been working to promote next-generation technology for fish farming. Apparently this technology is in commercial use in Europe and Asia but is just getting started here in the Americas. What exactly is this technology and does it really have promise?

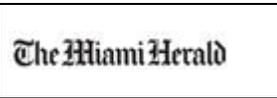
Ocean Doctor's 50-States Expedition to Schools

- For your 50th birthday, you set out on an "expedition" to donate speeches about the oceans to schools in all 50 states. What made you want to do this and how many states have you visited so far?
- How is your message being received in the schools? What are you learning from these kids and their teachers that you've visited?



Selected Media Coverage & Appearances

	March 2012	WGTV-TV PBS Grand Rapids, Michigan: <i>News</i> makers with Patrick Center, News Director, featuring Dr. David E. Guggenheim
	2/13/2012	Social Media Week 2012 (New York): <i>Is It Getting Hot In Here? Considering Social Media's Impact on Climate Change</i>
	12/23/2011	Dr. Kiki's Science Hour (TWiT Netcast Network): <i>Ocean Checkup</i> Dr. Kirsten "Kiki" Sanford is joined by The Ocean Doctor, David E. Guggenheim on Dr. Kiki's Science Hour for a checkup on the oceans' health.
	12/21/2011	St. Petersburg Times: <i>Coast Guard plans to use dispersants if Cuban drilling produces oil spill</i>
	12/18/2011	60 Minutes: <i>The Gardens of the Queen</i> 60 Minutes cameras take you on an underwater adventure off the Cuban coast to one of the world's most pristine and vibrant coral reefs, known as the Gardens of the Queen. Anderson Cooper scuba dives with marine biologist David Guggenheim , dodging giant groupers and sharks, to explore this increasingly rare oasis. Scientists estimate that 25 percent of the world's reefs have died off and much of what's left is at risk.
	11/2/2011	Popular Mechanics: <i>What if Cuba's Offshore Oil Project, Only 100 Miles From Florida, Goes Wrong?</i>

	10/4/2011	NPR/WHYY Radio, Philadelphia: “The State of the World’s Oceans with David Guggenheim” on Radio Times with Marty Moss-Coane
	6/11/2011	Christian Science Monitor: Jacques Cousteau’s legacy lives on
	4/6/2011	ABC Australian Broadcasting Corporation: Ocean Doctor helps endangered penguins after oil spill AUDIO: Radio Interview with ABC 720 (Perth) Afternoon’s 720 Gillian O’Shaughnessy
	4/4/2011	The Huffington Post: A World Away From the Gulf, Penguins Fight Oil Too
	4/3/2011	CNN International: VIDEO: Oil slick threatens endangered penguins
	4/2/2011	CNN.com: Penguin rescue operation under way after south Atlantic oil spill
	3/25/2011	PRI’s “Living on Earth”: Rare Penguins Endangered By Oil Spill On Remote Island
	2/3/2011	The Miami Herald: Cuba oil bid a bad idea, Florida says by Lesley Clark
	0/19/2010	PRI’s “The World”: US, Cuba scientists cooperate on Gulf research For the first time in decades, scientists from Cuba and the US are officially collaborating on Gulf of Mexico research. Lygia Navarro reports from Sarasota, Florida.
	10/15/2010	Discovery News: Cuban, U.S. Scientists Work Toward a Better Gulf: With its pristine reefs, Cuba is an excellent place

		<i>for scientists to investigate marine ecosystems.</i> by Julienne Gage (Text and Video)
	9/30/2010	The Miami Herald: Cuba ready to drill for oil deeper than BP by Lesley Clark and Sara Kennedy
	9/26/2010	PBS “Nature” Series: With the episode, “Cuba: The Accidental Eden,” the 2010-11 season premiere of the acclaimed PBS series, “Nature” features David E. Guggenheim, along with other Cuban and American colleagues. More...
	9/9/2010	Dr. David E. Guggenheim, the “Ocean Doctor,” is featured in the book, SeaVoices (Brigham Distributing). The Sea Voices book is composed of over 100 people from Ocean Experts to Celebrities. It also includes Filmmakers, Artists, Authors, Musicians, Surf Industry Leaders, Athletes, Ecologists, and even Royalty from over 25 countries who all share their personal “Sea Voices.”
  	8/26/2010	<p>A new study suggests mother nature might be cleaning up the BP spill faster than expected.  Listen</p> <p>Researchers found several species of oil-eating bacteria thriving in the submerged plume, but uncertainty remains over the threat to marine life.</p> <ul style="list-style-type: none"> • Juliet Eilperin Environmental reporter, Washington Post • Terry Hazen Head of the Ecology Department and Senior Scientist at the Lawrence Berkeley National Laboratory in California • Richard Camilli Associate Scientist of Applied Ocean Physics & Engineering at the Woods Hole Oceanographic Institution • Ronald Atlas a microbiologist at the University of Louisville and past president of the American Society

		<p>for Microbiology</p> <ul style="list-style-type: none"> David Guggenheim president of Ocean Doctor, a project of The Ocean Foundation where he is a senior fellow
	7/22/2010	PBS Newshour: Along Gulf Coast, Effects of Chemicals in Oil Dispersant Questioned
	6/19/2010	Good Morning America/ABC News: Oil Threatens Marine Life (Interview with Dr. David E. Guggenheim)
	6/6/2010	MSNBC: Dr. David Guggenheim, the “Ocean Doctor,” appeared on MSNBC’s Dayside with Alex Witt to discuss the impacts of the BP Deepwater Horizon oil spill disaster in the Gulf of Mexico. More...
	6/5/2010	As part of the 2010 <i>World Science Festival</i> in New York, the “Ocean Doctor,” Dr. David E. Guggenheim , joined TED prize winner and National Geographic Explorer-in-Residence, Dr. Sylvia A. Earle ; Woods Hole Oceanographic Institution’s Dr. David G. Gallo , and Fabien Cousteau , in a panel moderated by ABC News’ Bill Weir , entitled, <i>Illuminating the Abyss: The Unknown Ocean</i> - Saturday, June 5, 2010 , 4:30 PM - 6:00 PM at The Paley Center for Media. More information
	5/26/2010	CNN: Cuba Faces Possible Oil Threat Fears over oil spill reach Cuba as fishermen and natural habitats face potential threats. CNN’s David Ariosto reports.
	12/8/2009	National Public Radio (NPR): Scientists Work To Protect Cuba’s Unspoiled Reefs by Nick Miroff  Listen

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