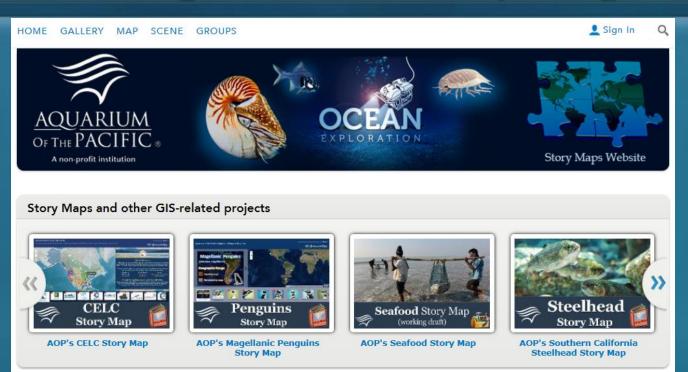
Using Story Maps to Engage the Public in Ocean Science

Jennifer Anne Lentz, Ph.D.

Education Specialist at the **Aquarium of the Pacific** Ecosystem-Based Management (EBM) Tools Webinar January 20th, 2015

The Aquarium's Story Maps



The Aquarium of the Pacific's mission is to instill a sense of wonder, respect, and stewardship for the Pacific Ocean, its inhabitants, and ecosystems. Our vision is to create an aquarium dedicated to conserving and building Natural Capital (Nature and Nature's services) by building Social Capital (the interactions between and among peoples).

The Aquarium of the Pacific (AOP) is the fourth most-attended aquarium in the nation. It displays over 12,000 animals in more than 50 exhibits that represent the diversity of the Pacific Ocean. Each year more than 1.5 million people visit the Aquarium. Beyond its world-class animal exhibits, the Aquarium offers educational programs for people of all ages from hands-on activities to lectures by leading scientists. Through these programs and a variety of multimedia experiences, the Aquarium provides opportunities to delve deeper into ocean science and learn more about our planet. The Aquarium of the Pacific has redefined the modern aquarium. It is a community gathering place where diverse cultures and the arts are celebrated and a place where important topics facing our planet and our ocean are explored by scientists, policy-makers and stakeholders in the search for sustainable solutions.

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http://aop.maps.arcgis.com

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We are using **Story Maps** to help guests learn more about our...

<u>Animals</u>

Exhibits

Experiences



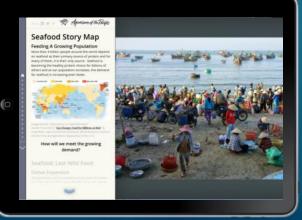




Locations



<u>Issues</u>



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Example of a Story Map about our Animals

Aquarium of the Pacific's Magellanic Penguins Story Map

An Aquarium of the Pacific (AOP) story map 📑 😏 🔗

🧊 Aquarium of the Pacific.



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Example of a Story Map about our Exhibits

an AOP story may

Aquarium of the Pacific

Southern California Steelhead

Steelhead

Historian John G. "Tom" Tomlinson, Jr., In collaboration with the Aquarium of the Pacific, has written a book documenting the local history of the Southern California Steelhead, including historic photos, postcards, fishery data, newspaper clippings, and rainfall statistics.

This book gathers historical information about this fish species and describes its resilience in the face of the region's changing watersheds, rainfall levels, and manmade infrastructure.

Against the Currents is available for sale in the Pacific Collections gift store or online at <u>shop.aquariumofpacific.org</u>

Learn More

Watch "Southern California Steelhead: Against All Odds" by California Trout



available online at: http://vimeo.com/79393289

More information about southern California Steelhead can be found online at:

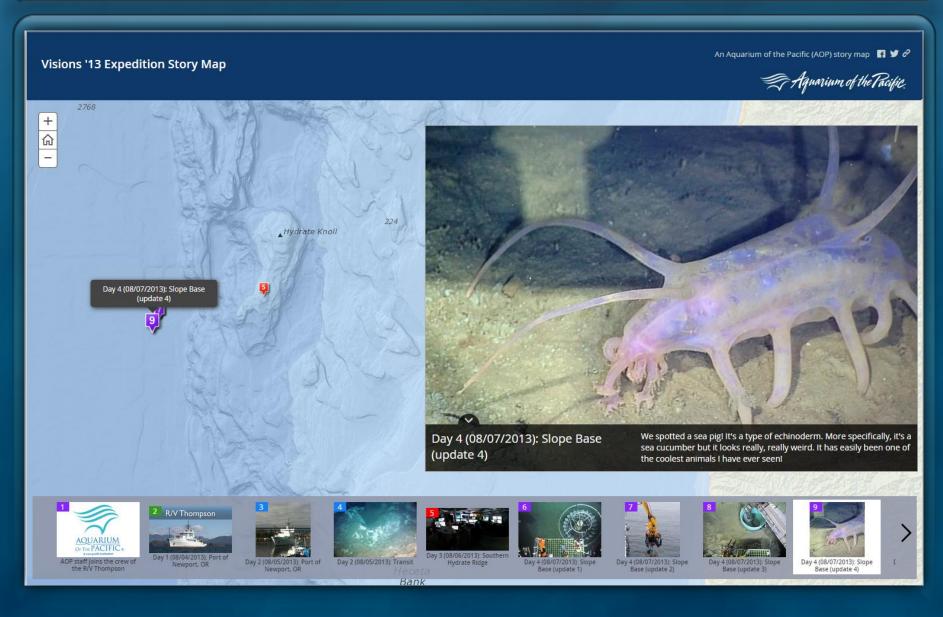
- The Aquarium's Online Learning Center "Southern California Steelhead" page

- National Marine Fisheries Service (NMFS) Steelhead profile
- The Recovery Plan for Southern California Steelhead (Jan. 2012)



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Example of a Story Map about our Experiences

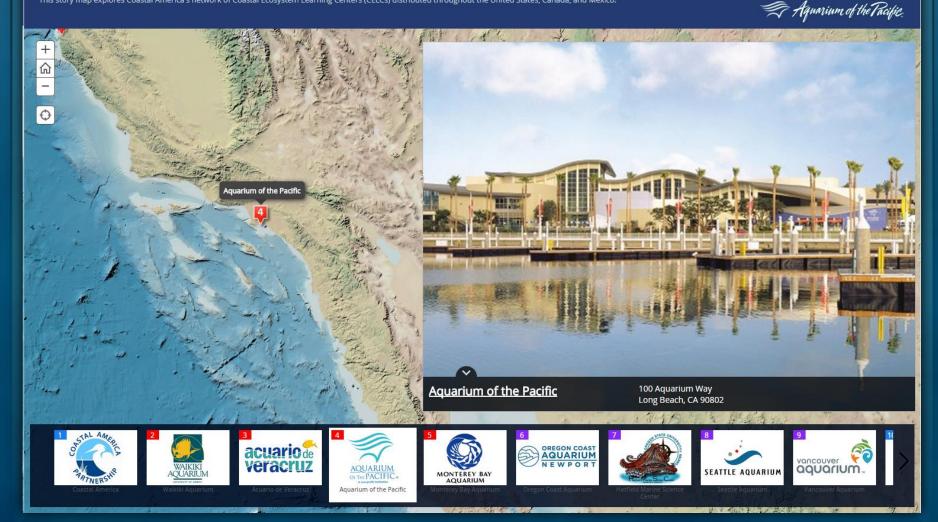


Example of a Story Map about our Locations

Coastal Ecosystem Learning Centers

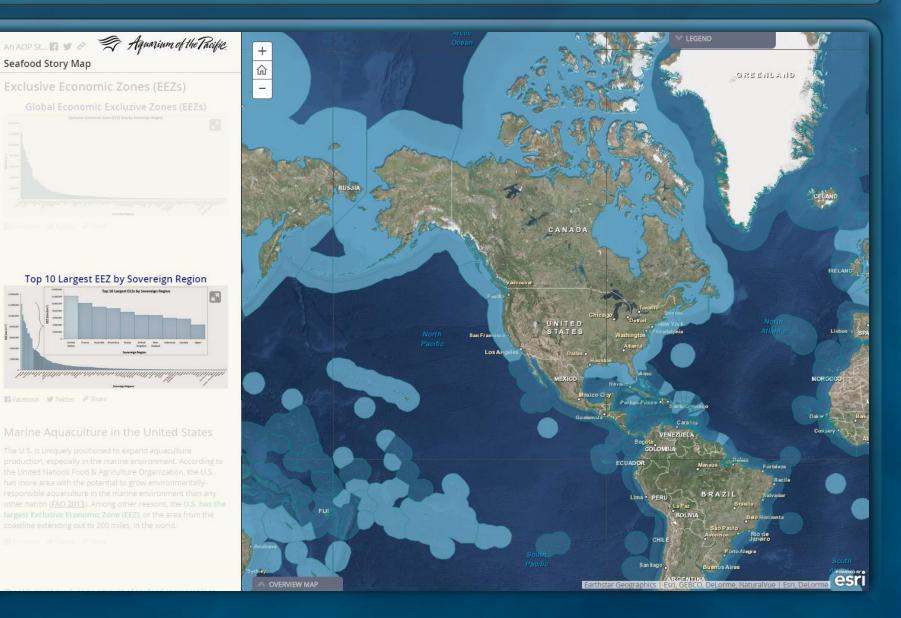
This story map explores Coastal America's network of Coastal Ecosystem Learning Centers (CELCs) distributed throughout the United States, Canada, and Mexico.

an AOP story map 🛛 🖌 🎾 🖉



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Example of a Story Map about an Issue / Topic



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Example of a Story Map about an Issue / Topic

An Aquarium of the Pacific (AOP) st... 🛐 😏 🤗

Ocean Exploration

E/V Nautilus



The Exploration Vessel (E/V) Nautilus, is a a 64meter research vessel operated by the Ocean **Exploration Trust**

The Ocean Exploration Trust was founded in 2008 by Titanic-discoverer and National Geographic Explorer-in-Residence Dr. Robert Ballard to engage in pure ocean exploration.

Map of the 2014 Nautilus Expeditions



Their international programs center on scientific exploration of the seafloor. In addition to conducting scientific research, their expeditions are made available to explorers on shore via live



Explore the ocean LIVE with Dr. Robert Ballard and the Corps of Exploration

PHOTOS & VIDEOS

MAIN THE TECH THE SCIENCE THE TEAM LATEST NEWS EDUCATORS JOIN US

LATEST NEWS

THE EXPEDITION



Meet the Siphonophore



"Wrath of Khan" Worm Found in Mussels



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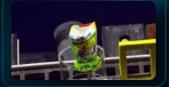
The Future of Science: Exploring with Remote Telepresence



What Happens to Collected Samples?

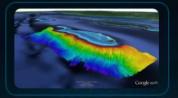


Nautilus Doodles: Science **Communication Through Art**



Shrinking Cups in the Deep







Interpreting with Story Maps



Interpreting with Story Maps



Story Maps Interpreter Survey

We're exploring how to make the best use of the Story Maps Dr. Jenny's been working on. This survey will help us get an idea of how they can be used on the floor by our interpreter staff. Including how the existing story maps are received by quests, how staff feel about interpreting with them, technical problems that may need to be addressed, ideas for improvement, new story mans ideas etc.

Please take a few minutes to fill out this survey after each time you interpret using our iPads to connect to our Story Maps out on the floor (after each interp session, not after each guest interaction)

Thank you so much for your help!!!

~Dr. J

* Required

Continue »

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Part 1: Background Info

1) What's your name? (optional) Name of the AOP Staff Member or Volunteer interpreting with Story Maps

2) Do you have prior experience interpreting with AOP Story Maps? *

- O No, this was my first time (skip Part 2 & go straight to Part 3)
- O Yes, I've used the iPads to interp with story maps before

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Basic information

- Which story map did you use?
- Where did you use it?
- How was the internet connection?
- How was the lighting?

Assessing Staff's Personal Experience

- How did you feel about interpreting with these?
- Would you use them in the future?
- How would you prefer to interpret with these (iPads, kiosks, etc.)
- Edits, additions, you'd recommend making to existing apps?
- Ideas for future story maps?

Assessing Guest Experience

- How many guests did you interact with?
- Were they individuals, families, etc.
- Overall level of guest engagement
 - High (very engaged & interested)
 - Medium (moderately engaged & somewhat interested)
 - Low (not engaged & not interested)
- Overall level of guest perception (Positive, Neutral, or Negative)
- Did guests find the interactives helpful?
- Were they interested in exploring the apps online?

"An Ocean of Story Maps" EBM Webinar – January 20th, 2015

25% completed

Introducing GIS to Teachers



Alie LeBeau Clarke August 21, 2013 - Long Beach, CA

We talked about data and storymapping and GIS with Jennifer Lentz, so I thought you might enjoy this map of favorite field trip destinations. p.s. the AOP is missing. How is that possible? Anybody want to submit their glowing recommendation?



Get Going: Mapping Teachers' Favorite Field Trip Spots Teachers! Need ideas on where to take your students for beyond-school learning? See our interactive map of the best field trip spots across the U.S. Have a favorite field trip location? Submit your favorite venue and help us build a rich and dynamic... EDWEEK ORG



An Introduction to GIS and Spatial Data



Jennifer Anne Lentz, Ph.D. Education Specialist at the Aquarium of the Pacific NASA Teacher Workshop Presentation

October 11th, 2013

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GIS & Story Map Tutorials

GIS Wildlife Data Tutorial

How to find, Map, & Spatially Analyze Wildlife Data in a GIS System

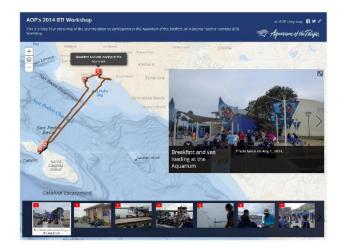


This Tutorial was Created by Jennifer Anne Lentz, Ph.D. Education Specialist at the Aquarium of the Pacific

This tutorial, and other teaching-related materials by Dr. Lentz are available online at: http://JenniferALentz.info/Teaching.html

Creating "Map Tour" Story Maps

How to create a Map Tour Story Map quickly and easily using your smartphone or tablet, and your ArcGIS Online Organization Account



This Tutorial was Created by Jennifer Anne Lentz, Ph.D. Education Specialist at the Aquarium of the Pacific

This tutorial, and other teaching-related materials by Dr. Lentz are available online at: http://JenniferALentz.info/Teaching.html

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GIS & Story Map Tutorials

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Creating Map Tour Story Maps using the



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Creating an Interactive Web Map using ArcGIS

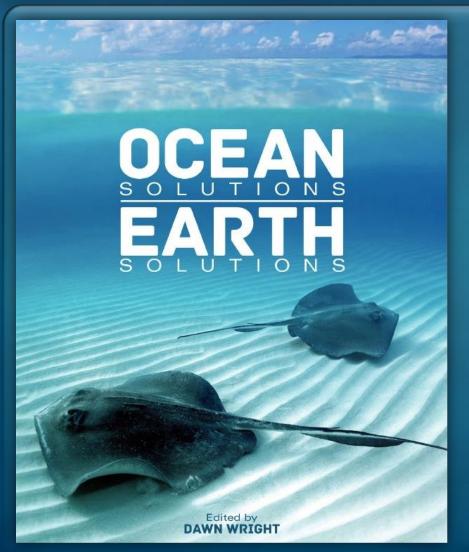
Search the website or visit the ArcGIS Marketplace



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Chapter in Upcoming Book



Chapter 12

More than Maps: Connecting Aquarium Guests to Global Stories

by Jennifer Lentz, Emily Yam, Alie LeBeau, & David Bader

> Expected Release Late Spring-Early Summer 2015

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"An Ocean of Story Maps" EBM Webinar – January 20th, 2015





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"An Ocean of Story Maps" EBM Webinar – January 20th, 2015

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An Ocean of Story Maps Website: http://esriurl.com/ocnstories

Esri Oceans Resources Website: http://esriurl.com/ocnres

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> Jenny's Personal Website: http://JenniferALentz.info

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