Using Geospatial Technologies to Engage the Public in Ocean Science

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Esri Ocean GIS Forum Lightning Talk Presentation Wednesday, November 5th, 2014

Geospatial Technologies



Geospatial Technologies



Geospatial Technologies



Interactive Web Apps

Sea Level Rise App



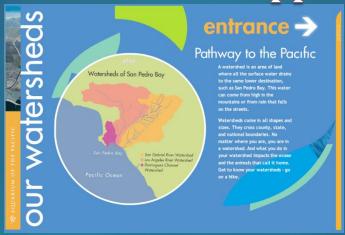
http://www.aquariumofpacific.org/webapps/slr/

Whale Research App



http://whaleproject.aquariumofpacific.org/

Watersheds App



http://www.aquariumofpacific.org/ourwatersheds site/

Whales: Voices in the Sea



http://cetus.ucsd.edu/voicesinthesea_org/index.html

AOP Story Maps

http://aop.maps.arcgis.com



Using Story Maps to help guests learn more about our...

Animals



Exhibits

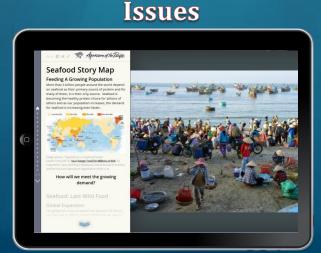


Experiences



Locations



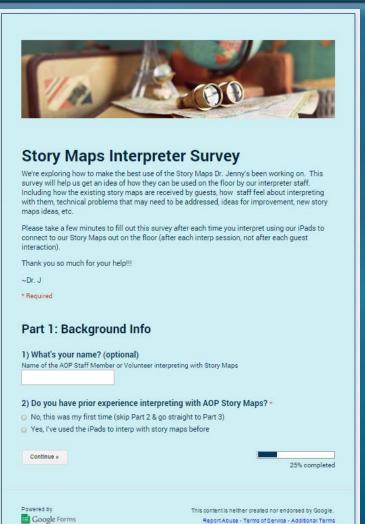


Interpreting with Story Maps





Interpreting with Story Maps



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?

Introducing GIS to Teachers





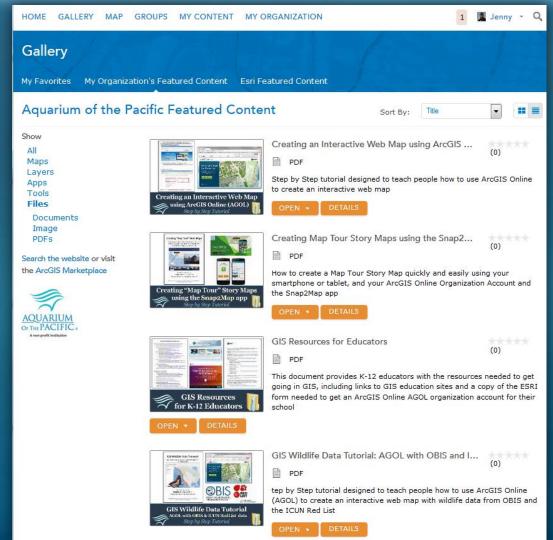
We talked about data and storymapping and GIS with Jennifer Lentz, so I thought you might enjoy this map of favorite field trip destinations. p.s. the AOP is missing. How is that possible? Anybody want to submit their glowing recommendation?



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



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

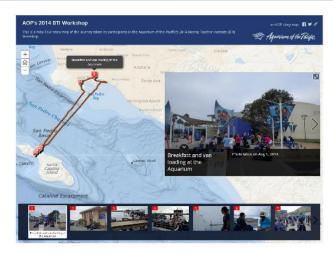
Jennifer Anne Lentz, Ph.D.

Education Specialist at the Aquarium of the Pacific

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



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Key Story Map Questions

- How are people using our story maps?
 - Are teachers using existing story maps to supplement information into lessons? or are they using the tutorials to create new story maps with their students?
 - Are guests using the story maps to learn more about our exhibits?
 - Are our staff & volunteers using the story maps as an interpretive tool?
- How will we know Success when we see it?
- **▶** What is the *goal* of our story maps?
- Who is the audience?
- > Are there different goals for different audiences?
- > How do we get them *to* their intended audience?