# **GEATRACES**



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Laboratory for

**REIMAGINING OCEANOGRAPHIC OUTREACH:** 

Engaging Public Interest In Oceanographic Biogeochemistry Through Virtual Reality Of An At-sea Experience

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TEXAS A&M UNIVERSITY School of Performance, Visualization & Fine Arts

### CHALLENGES IN COMMUNICATING OCEAN SCIENCE TO THE GREATER COMMUNITY

- Public understanding and buy-in drives funding
- Scientific jargon can be overwhelming and lost quickly
- Many people assume "oceanography" is mostly large biology (whales and dolphins)
- Research cruises are not pleasure cruises
- Retention of young kids interested in STEM careers can wane

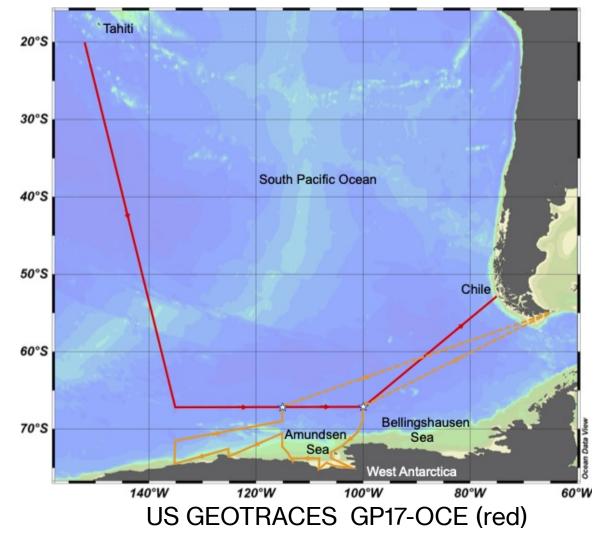


### **Sailing with GEOTRACES** 360° VR Experience





**R/V Roger Revelle - SIO** 



## Vision behind "Sailing with GEOTRACES"

- Multiple different VR and 2D products that can be stand alone, but are also be tied together via an isometric view of ship that you can explore
  - "rooms" will light up with interviews
  - 360° videos, time lapse videos
  - short games to allow participants to
    "become GEOTRACES scientist for a day"
- Target audience: general public
- Final product housed on Texas A&M website and linked on GEOTRACES site.



### Vision behind "Sailing with GEOTRACES?"



## **Reality behind "Sailing with GEOTRACES?"**



### -GEOTRACES

GP-17 OCE Southern Pacific Meridional Transect

#### ABOUT SPECIAL THANKS

#### Welcome Aboard!

About GEOTRACES

Learn more about GEOTRACES...

#### Play Game

Experience our interactiable replica of the Geotraces ship and learn about life as a scientist onboard a research vessel! VR and online options available



Explore the ship level by level in our isometric











V Laboratory for Ocean Sciences

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**N** Laboratory for Ocean Sciences

# Interactive Games

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**A** 

### tion Samples

down into water e collected by the

onto the deck the super tech so she e bottles!

ollected: lower

# **Other features**

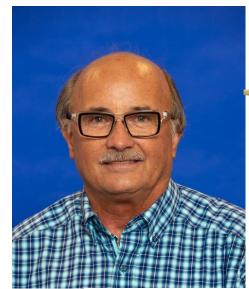
- Science experiments:
  - Biomass
  - Ocean Acidification
  - Nutrients
- Securing gear on deck
- Ability to experience different sea-states

# Acknowledgements













at-sea.artsci.tamu.edu

