

# It Takes a Village to Build a Sea Level Rise App: Informing Citizens About Sea Level Rise in Miami

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# I am not a scientist...



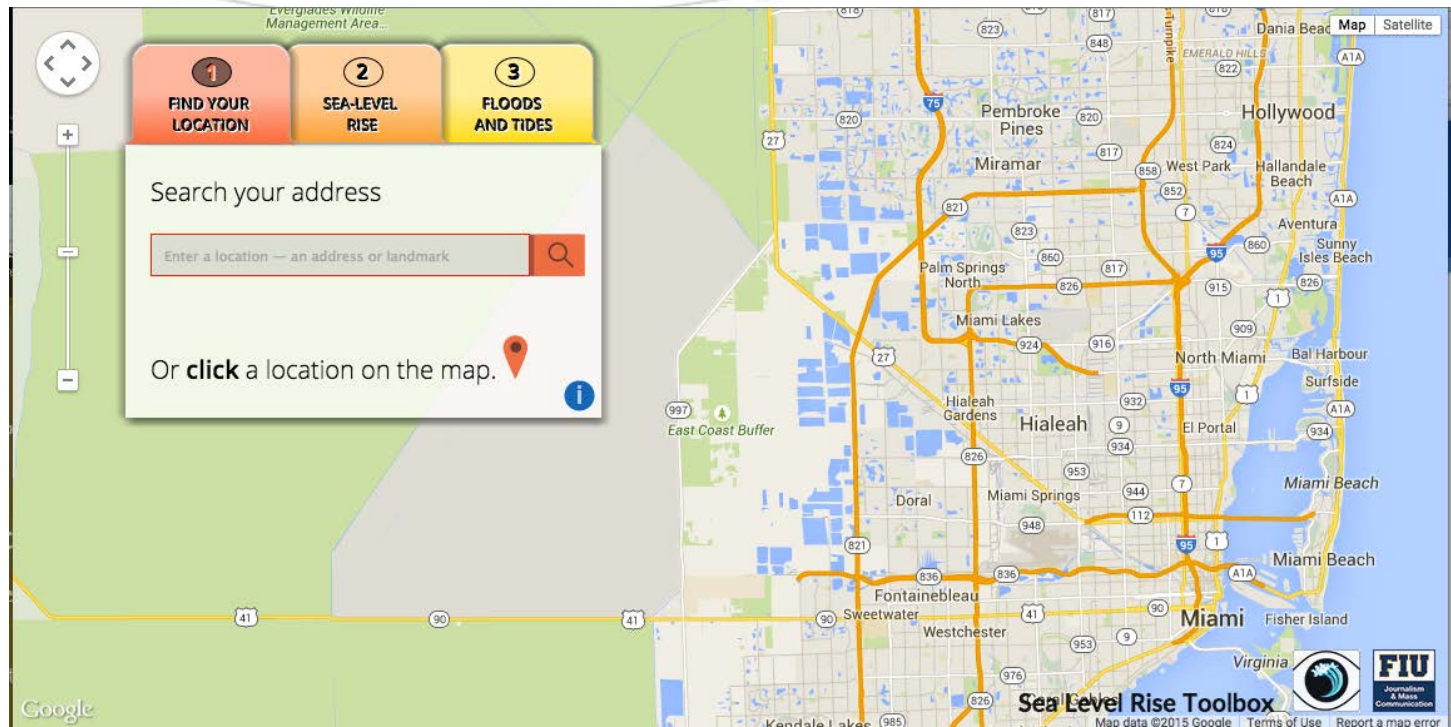
Hurricane Resilience, Vulnerability and Risk Awareness • June 24, 2015

# ONA Journalism Curriculum Challenge Grant





# Sea Level Rise Toolbox



<http://eyesontherise.org/app>

Hurricane Resilience, Vulnerability and Risk Awareness • June 24, 2015

# SLR Toolbox: Development Process

- ◆ Brainstormed ideas and costs for grant application
- ◆ Created first design mockups
- ◆ GIS developed prototype
- ◆ Conducted user testing
- ◆ Design mockups 2
- ◆ Design mockups 3 (Fusion)
- ◆ Implemented Design 3
- ◆ Launched app
- ◆ Continuous updates

# Design Mockup 1

## Sea Level Rise Risk Indicator

Submit

3000 NE 151 Street

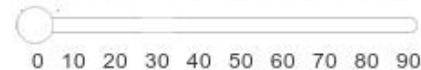


**Elevation** 1.8 feet  
**Sea Level Rise** 3.0 feet  
**Potential Impact** 1.2 feet

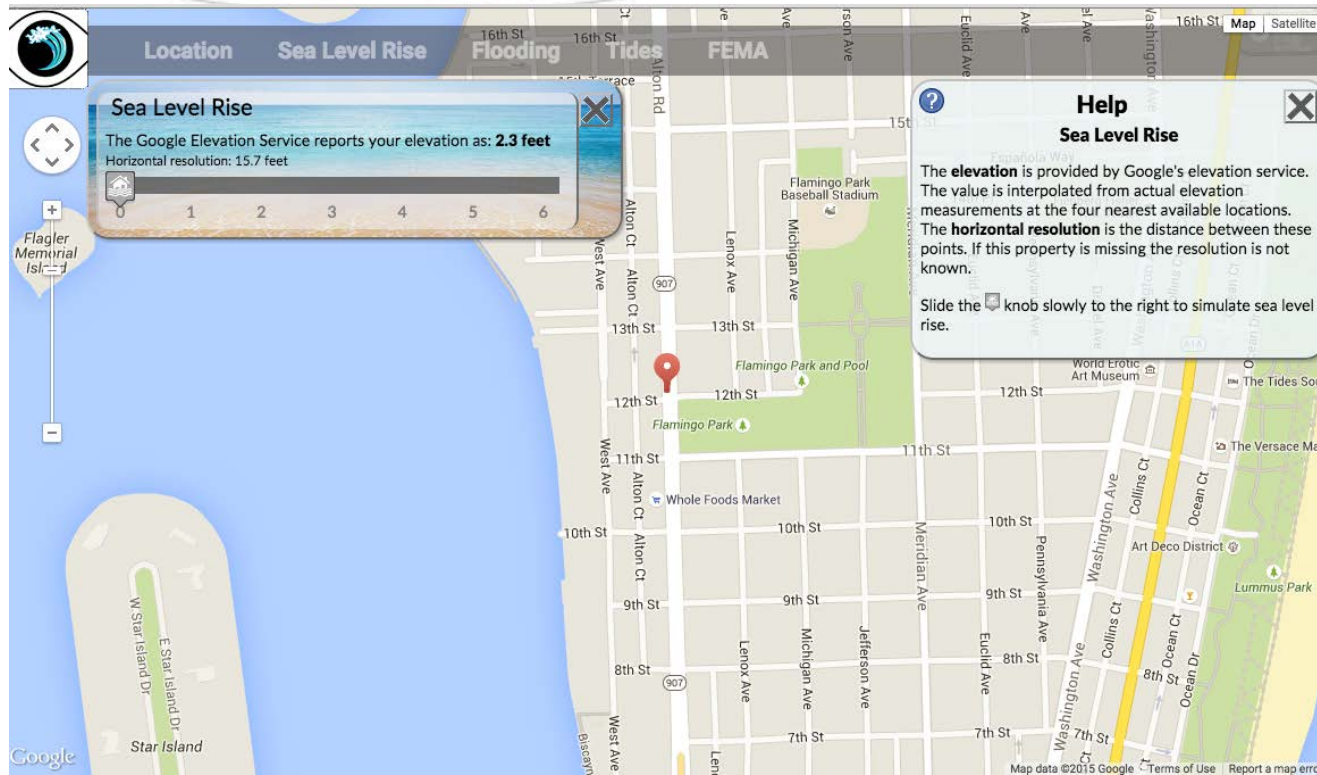
### Sea Level Rise in Feet



### Sea Level Rise Projections (yrs)



# Implementation 2





# Current Implementation

1 FIND YOUR LOCATION

2 SEA-LEVEL RISE

3 FLOODS AND TIDES

Search your address

1204 Alton Road, Miami Beach, FL, United States

Your elevation is:  
**2.32 feet**  
(0.706 meters)  
[Horizontal resolution: 15.66 feet (4.772 meters)]

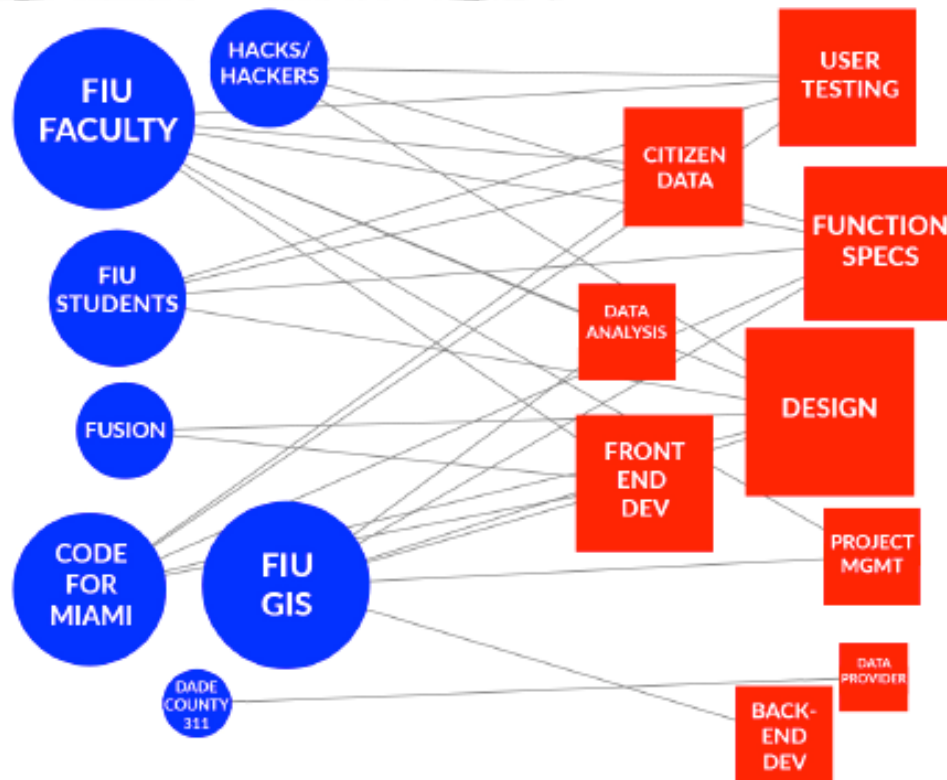
Or **click** a location on the map.

Sea Level Rise Toolbox

FIU

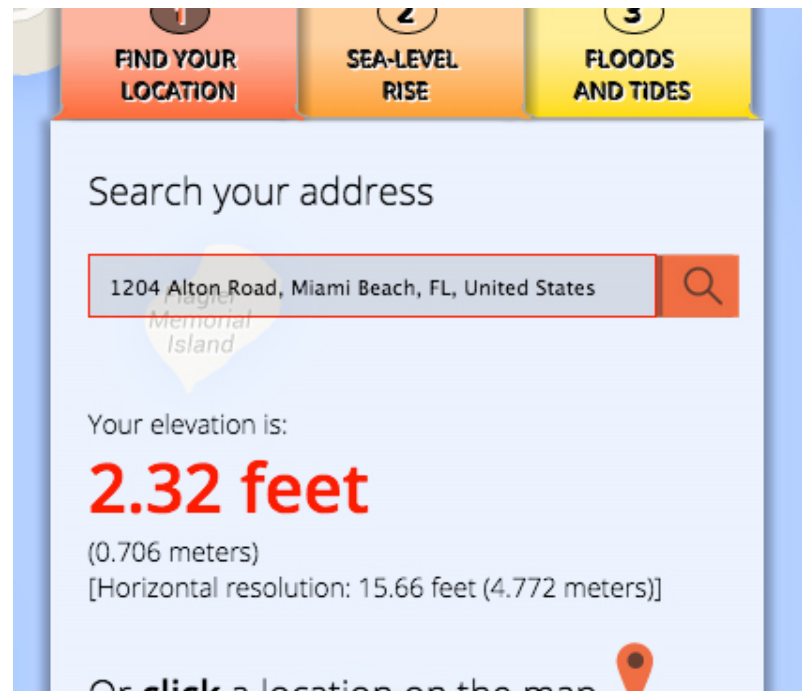


# SLR Toolbox: Development Team



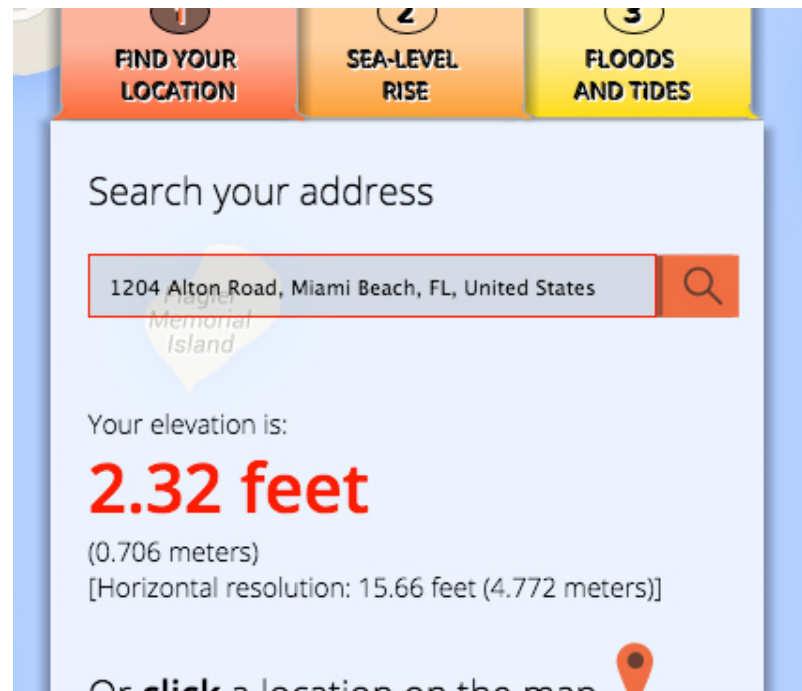
# SLR Toolbox: Challenges

- ◆ Politics
- ◆ Representing **years vs. feet**
- ◆ Creating **interface for a lay audience**
- ◆ Providing **context**
- ◆ **Scientific information vs. journalism**
  - ◆ Google Elevation vs. LiDAR
  - ◆ Visualizing .5 feet on 1-foot scale



# SLR Toolbox: Next Steps

- ◆ Increase transparency of data
- ◆ Build and design native IOS and Android applications
- ◆ Implement Flood Report Database
  - ◆ Add local sources
- ◆ Create citizen flood report tool
  - ◆ K-12 flood report curriculum





# SLR Impact: Student Video Series

- Series was edited into a 30-minute documentary **South Florida's Rising Seas: Impact**. Special will air on WPBT2 on June 24 at 7:30pm & June 28 at 1:30pm.



# Thank You!

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