

The Delaware Resilience Awareness Project (DeIRAP)



LOCAL PERSPECTIVES ON BIG STORMS AND RISING WATER

Tina Callahan, CEMA, University of Delaware

November 1, 2019

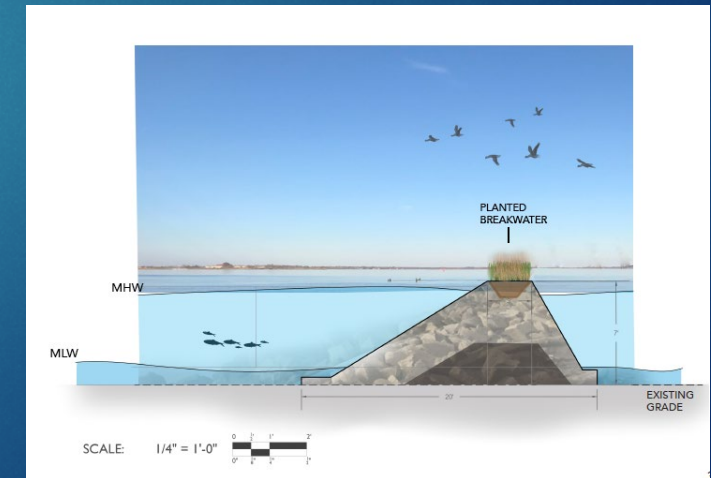
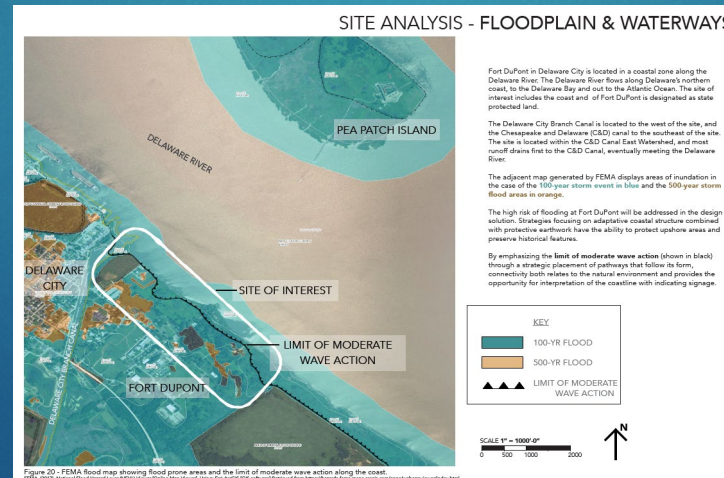
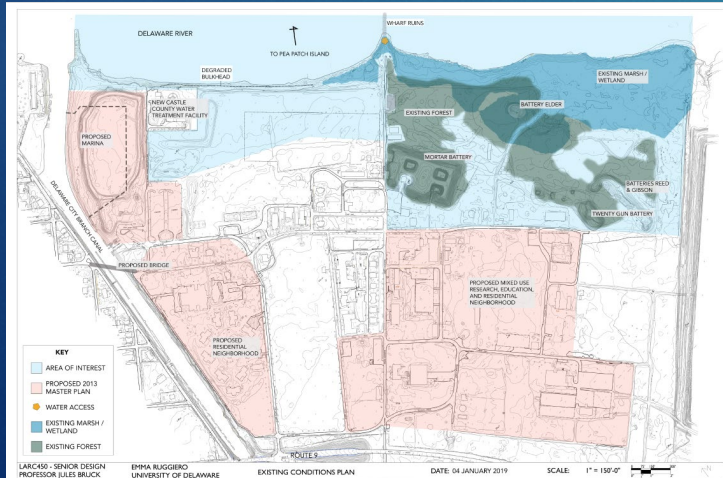
Presented to the Scientific and Technical Advisory Committee for the Center for the Inland Bays

Outline

- ▶ Building the Delaware Resilience Awareness Project (DeIRAP)
- ▶ DeIRAP:
 - ▶ Ideas and Goals
 - ▶ People
 - ▶ raise awareness through digital storytelling
 - ▶ Create a platform for documenting – citizen science approach
- ▶ Coastal Observer Demonstration

Building DelRAP

- ▶ Coastal Resilience Design Studio (**CRDS**)
 - ▶ Dr. Jules Bruck (Professor & Director Landscape Architecture, University of Delaware)
 - ▶ Sustainable Coastal Communities Initiative (SCCI)
 - ▶ Goal: To engage planners, community members, experts, and students in bridging science and design to solve coastal resiliency issues.



Building DeRAP



- ▶ Resilient And Sustainable Communities League (**RASCL**)
 - ▶ a collaborative network made up of 19 partners (in various sectors) working to promote resilience and sustainability in communities across the state
 - ▶ Provides information, technical assistance, and networking opportunities to state, local, and county governments, citizen groups, the private sector, and non-profit organizations in order to advance the goals of resilience and sustainability in the State of Delaware.

Registration closes on November 6, 2019.



REGISTRATION NOW OPEN!
Annual RASCL Summit
November 15, 2019
Dover, DE

**SURF AND TURF:
IMPLICATIONS FOR
FUTURE
MANAGEMENT OF
OUR LAND AND
WATERS**

**GENERAL ADMISSION:
\$15
STUDENT ADMISSION:
\$5
COST INCLUDES
CATERED LUNCH**

For more information and to register:
<https://rasclsummit19.eventbrite.com>

5

-



Digital Stories

- ▶ Citizens tell their stories!
- ▶ How have big storms & rising water impacted you and your community?

We know the stories are out there, and we are proposing the development of an framework to collect, document, and disseminate this information to raise awareness of sea-level impacts throughout the state."



Digital Story Train

DeIRAP Who



Center for Food
Systems and
Sustainability
(CENFOODS)

Lead PIs

- **Jules Bruck**, Professor & Director, Landscape Architecture
- **Anna Wik**, Assistant Professor, Landscape Architecture

Co-PIs

- **Jon Cox**, National Geographic Explorer, Assistant Professor of Art and Design
- **Ed Lewandowski**, Coordinator Sustainable Coastal Communities Initiative, Delaware Sea Grant
- **Jenn Volk**, Associate Director of Cooperative Extension
- **Gregory Shelnuft**, Chair and Professor of Art
- **Catherine Morrissy**, Director, Center for Historic Architecture and Design
- **Tina Callahan**, Associate Director, Delaware Environmental Monitoring and Analysis Center (DEMAC)

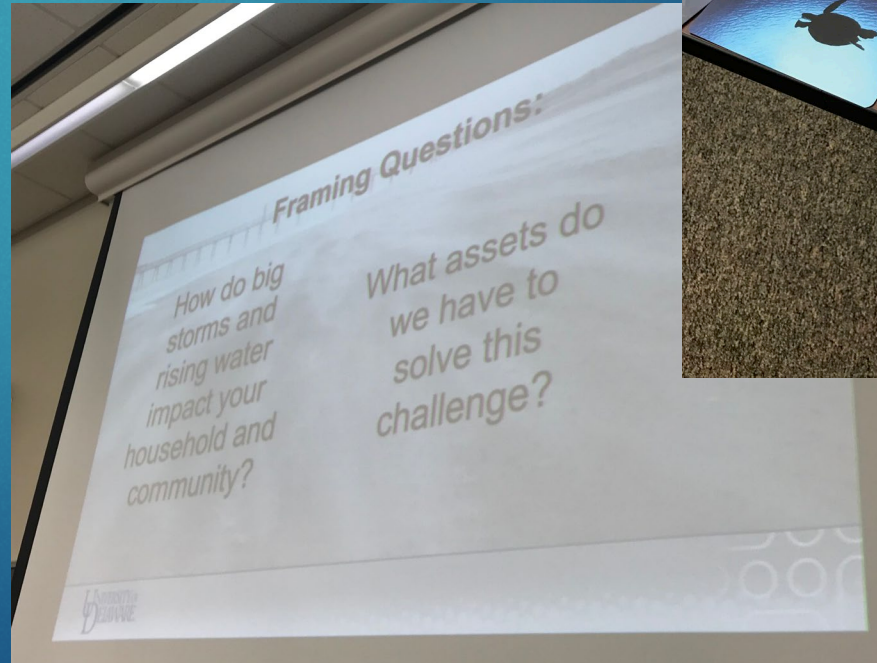
DeIRAP Goals

- ▶ **raise awareness** of statewide problems with sea-level rise and intensifying storms through the art of digital storytelling.
- ▶ **create a platform** and process **for concerned citizens** to provide geo-tagged photographic evidence of sea-level rise and intensifying storm impacts within their communities — a citizen science approach.



Digital Storytelling & Perspectives

- ▶ Videos/Interviews
- ▶ Series of workshops held throughout the state
 - ▶ Design Charettes (with community members)
 - ▶ Greg Shelnutt
 - ▶ Jon Cox
 - ▶ a discussion and discovery through visual exploration around topics related to big storms and rising water.



Citizen Science

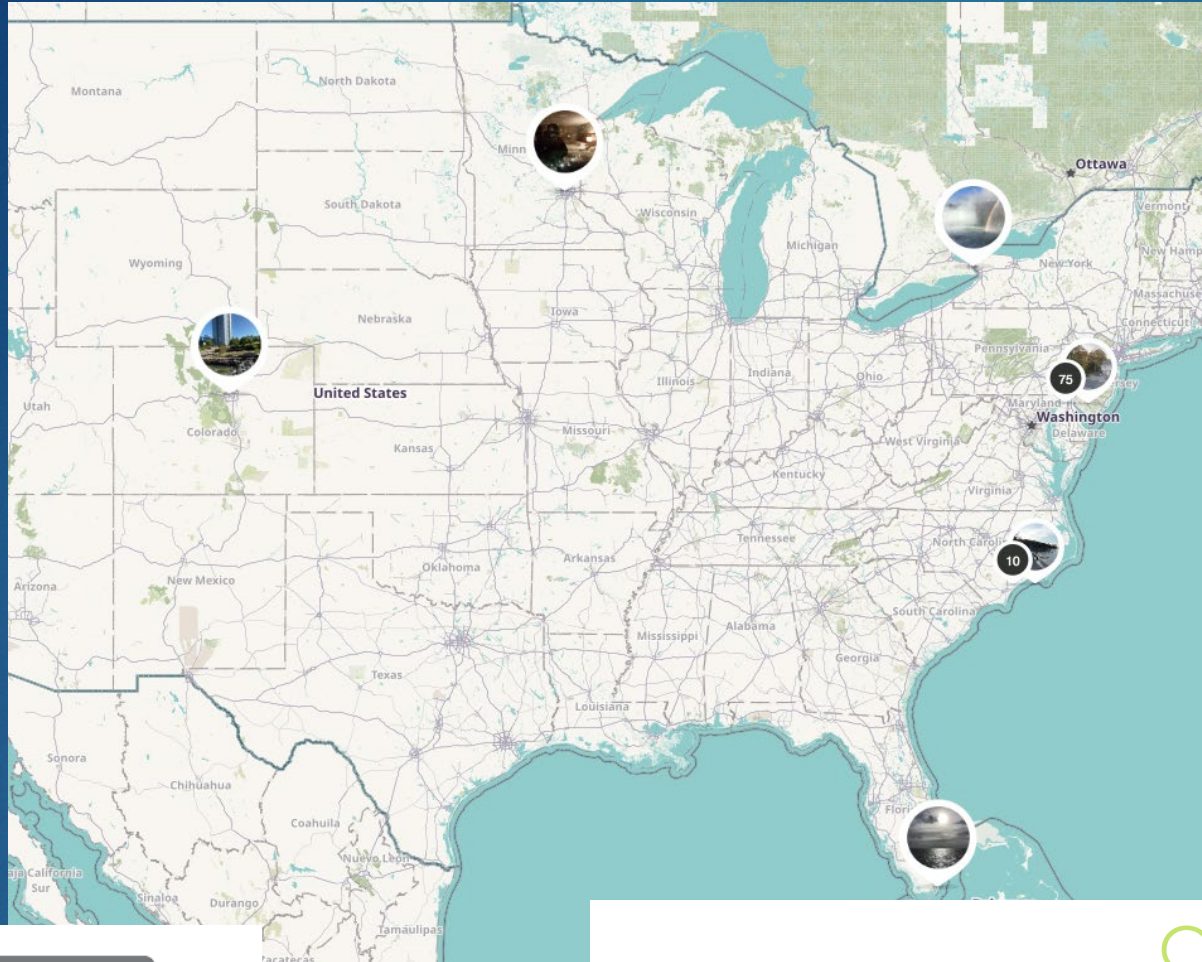


COASTAL OBSERVER
Water and Weather Observations

POWERED BY
SPOTTERON
www.spotteron.net

UNIVERSITY OF DELAWARE
Sea Grant Delaware
DeIRAP
Resilience Awareness Project

<https://www.spotteron.com/coastalobserver/>



Please select your main category for your observation.

WATER SCENE	WATER LEVEL	WATER QUALITY	WEATHER
-------------	-------------	---------------	---------

WHAT'S YOUR SETTING?

FIELD / YARD	ROAD / BRIDGE	PIER / DOCK
BEACH / COAST	RIVER	??? OTHER

HOW DOES IT MAKE YOU FEEL?

--	--	--	--	--

Select picture

Can you describe your observation? (optional)



Coastal Observer App

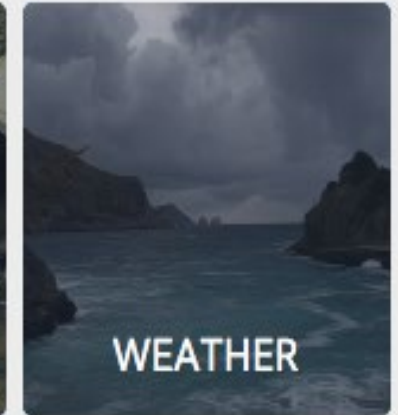
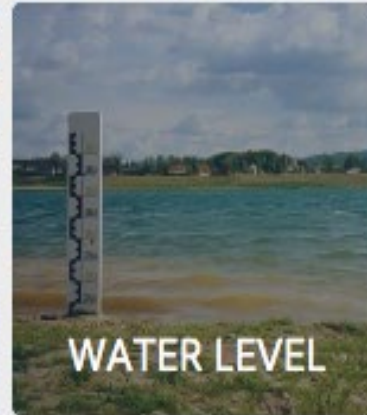
Generously supported by CENFOODS +
Plant and Soil Sciences

Coastal Observer

- ▶ Water Scene
- ▶ Water Level
- ▶ Water Quality
- ▶ Weather

WHAT DO YOU WANT TO SPOT?

Please select your main category for your observation:



Coastal Observer

- ▶ Possible Collaborations
 - ▶ Project WiCCED
 - ▶ King Tides Project
 - ▶ SECCHI Disk Project
 - ▶ And more!!



SECCHI DISK

THE GLOBAL SEAFARER STUDY OF THE PHYTOPLANKTON

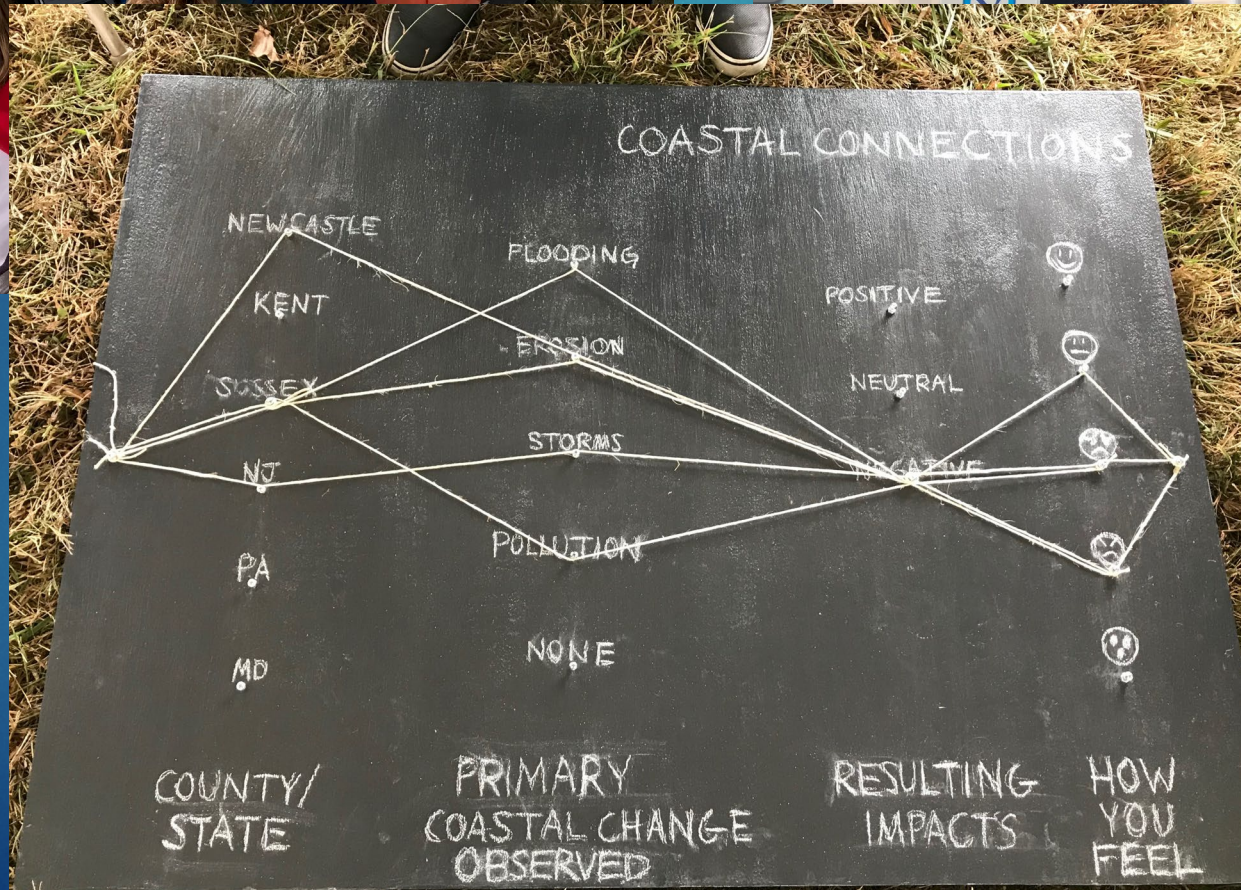
Are You Taking Part ?

HELP STUDY THE PHYTOPLANKTON

Get the **FREE** Secchi app,
MAKE your Secchi Disk &

Create your ocean legacy





Coast Day 2019

Engaging with the coastal community.



Coastal Observer demo

<http://www.spotteron.com/coastalobserver/>



Questions and Comments?

TINA.CALLAHAN@UDEL.EDU