

NUTRIENTS & RED TIDE IN FLORIDA

STATE OF THE SCIENCE SYMPOSIUM

April 21 -23, 2025

University of South Florida
St. Petersburg

Hosted by Florida Sea Grant

PHOTO: RALPH ARWOOD & CALUSA WATERKEEPER

This symposium is hosted by Florida Sea Grant and the University of Florida IFAS with funding from the Florida Fish and Wildlife Conservation Commission

EXECUTIVE COMMITTEE

Lisa Krinsky, *Symposium Chair*, University of Florida IFAS Extension / Florida Sea Grant

Elizabeth Staugler, *Symposium Co-Chair*, Florida Sea Grant, University of Florida

Joy Hazell, *Symposium Facilitator*, University of Florida IFAS Extension / Florida Sea Grant

SYMPOSIUM GOALS

To assess the current state of knowledge, to share updates on new findings and ongoing efforts, and to guide future management and research priorities addressing nutrients and red tide.

SYMPOSIUM OBJECTIVES

- Encourage interdisciplinary collaboration and dialogue.
- Synthesize the current state of knowledge and efforts and identify gaps regarding the role and contribution of nutrients in red tide events.
- Identify and prioritize short- and long-term research needs and strategies.
- Identify connections to local, regional, and state management interventions.

STEERING COMMITTEE

Meghan Abbott, Fish and Wildlife Research Institute /
Florida Fish and Wildlife Conservation Commission

Kristen Buck, Oregon State University

Yesenia Escribano, Florida Department of Agriculture and
Consumer Services

Emily Hall, Mote Marine Laboratory

Nicole Iadevaia, Coastal & Heartland National Estuary
Partnership

Ed Sherwood, Tampa Bay Estuary Program

Rhonda Watkins, Collier County

David Whiting, Florida Department of Environmental
Protection

TECHNICAL ADVISORY COMMITTEE

Katherine Hubbard, Fish and Wildlife Research Institute /
Florida Fish and Wildlife Conservation Commission

Angela Knapp, Texas A&M University

Yonggang Liu, University of South Florida

Michael Parsons, Florida Gulf Coast University

Mark Rains, Florida Department of Environmental
Protection / University of South Florida

Ed Sherwood, Tampa Bay Estuary Program

SYMPOSIUM LOCATION

University of South Florida, St. Petersburg
University Student Center (USC) Ballroom

200 6th Ave S, St. Petersburg, FL 33701

2nd Floor

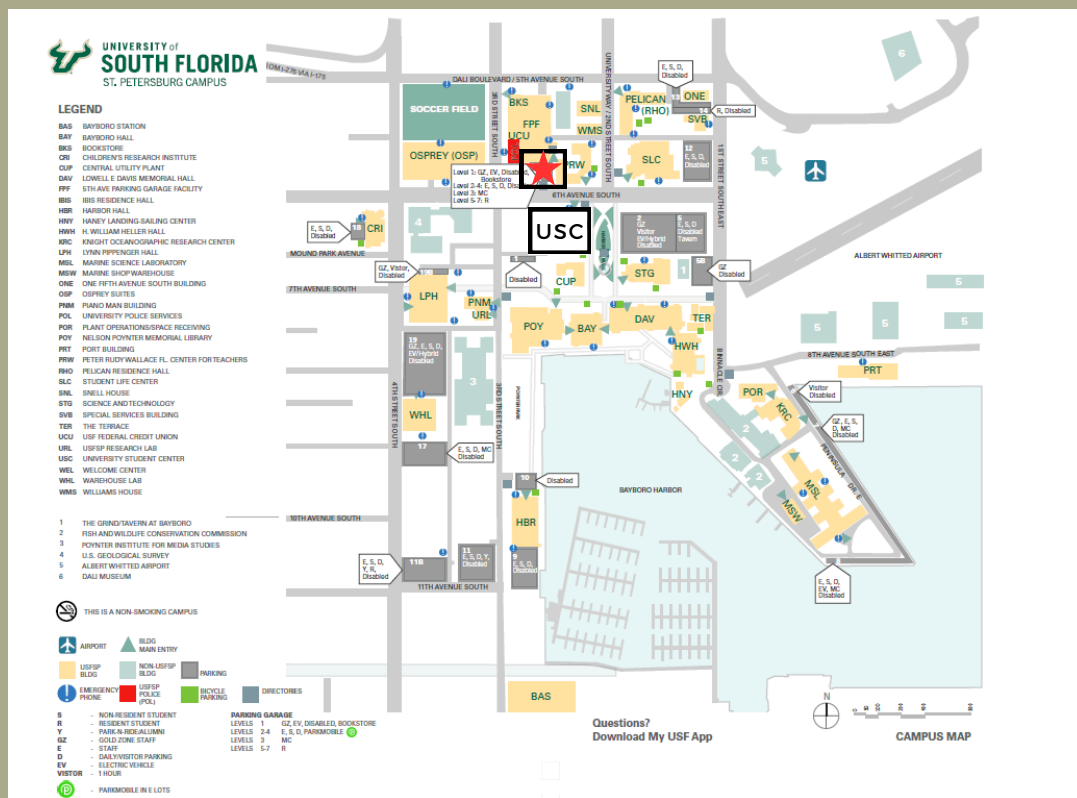
SYMPOSIUM PARKING

University of South Florida, 5th Avenue Parking Garage
Between 5th & 6th Ave ★

Participant parking is available on Floors 2, 3, and 4 only.

Parking will be free for participants.

Front-end parking only. License plates must be visible.



SYMPOSIUM HOTEL

Hollander Hotel

421 4th Ave N, St. Petersburg, FL 33701

MEETING AGENDA

MONDAY, APRIL 21

1:00 pm **Welcome and Introductions | USC Ballroom 1**

Session 1: Nutrient Dynamics across Bloom Stages

Nutrient Dynamics across Bloom Stages | A historical synthesis - Katherine Hubbard, *FWC-FWRI* and Cindy Heil, *Mote Marine Lab*

Nutrient Dynamics across Bloom Stages | A contemporary synthesis - Angela Knapp, *Texas A&M*

Lightning Presentations - special topics

1. ECOHAB - Patricia Glibert, *UMCES*
2. Nutrients and Carbonate Chemistry - Emily Hall, *Mote*
3. Coastal Groundwater Discharge - Christopher Smith, *USGS*
4. Trace Elements - Salvatore Caprara, *OSU*

Facilitated Discussion

5:00 pm **Adjourn**

TUESDAY, APRIL 22

8:00 am **BREAKFAST (provided) | USC Ballroom 3**

9:00 am **Welcome Back | USC Ballroom 1**

Session 1: Nutrient Dynamics across Bloom Stages continued

Review Day 1

Identify Research Priorities - small group discussions

12:00 pm **LUNCH (provided) | USC Ballroom 3**

1:00 pm **Welcome Back | USC Ballroom 1**

Session 2: Tracking Nutrients through Systems

Tracking Nutrients through Systems | A synthesis

Chris Anastasiou, *SWFMD*

Lightning Presentations - case studies

1. Piney Point - Marcus Beck, *TBEP*
2. Watershed Nutrients and Red Tide - Dave Tomasko, *SBEP*
3. Hurricanes and Upwelling - Yonggang Liu, *USF*

-BREAK-

Facilitated Discussion

Identify Research Priorities - small group discussions

5:00 pm **Adjourn**

WEDNESDAY, APRIL 23

8:00 am **BREAKFAST (provided) | USC Ballroom 3**

9:00 am **Welcome Back | USC Ballroom 1**

Review Day 2

Monitoring Efforts, Gaps, and Needs - group activity

-BREAK-

Research Priorities - ranking exercise

11:45 am **LUNCH (provided) | USC Ballroom 3**

12:45 pm **Welcome Back | USC Ballroom 1**

Session 3: Management & Response

Management & Response | A legislative perspective -
J.P. Brooker, *Ocean Conservancy*

Management & Response | Florida's approach -
David Whiting, *FDEP*

Lightning Presentations - special topics

1. FDACS Efforts - Kathryn Holland, *FDACS*
2. County Efforts - Brandon Moody, *Charlotte County*
3. Local Efforts - Rick Bartleson, *SCCF*
4. Fish Kill Composting - *Michael Parsons, FGCU*

-BREAK-

Facilitated Discussion

Next Steps

5:00 pm **Symposium Concludes**

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