

# U.S. Socioeconomic Impacts of Harmful Algal Blooms Workshop

## PARTICIPANT AGENDA

July 27 - August 5

Virtual Meeting

### Day 1 - July 27

- 11:45 - 12:00**    **Login for July 27th :** <http://noaacsc.adobeconnect.com/ussihabw/>  
Participants begin logging in and testing equipment
- Introduction Activity
- 12:00 - 12:20**    **Overview**  
Objective: Welcome and explanation of meeting goals
- 12:20 - 1:40**    **Natural Science Presentations/Discussions**  
Objective: Share HAB challenges and needs from a natural scientific perspective
- Marine Presentation - Quay Dortch  
Freshwater Presentation - Tim Davis
- 1:40 - 3:00**    **Social Science Presentations/Discussions**  
Objective: Share HAB challenges and needs from a social scientific perspective
- Social Science Presentation - Mike Downs  
Economic Presentation - Sunny Jardine
- 3:00-3:30**    **Charge to Case Study Groups and Open Discussion**

### Day 2 - July 29

- 11:45 - 12:00**    **Login for July 29th:** <https://nccos.adobeconnect.com/nccoshabworkshop/>  
Participants begin logging in and testing equipment
- 12:00-12:10**    **Welcome Back, Recap of Case Study Charge**
- 12:10 - 2:50**    **Case Studies (concurrent breakout rooms)**  
Objective: Identify information gaps and recommend social science and economic research priorities to improve documentation and quantification of the impacts of HABs on society and societal responses.
- Great Lakes – Cyanobacteria
  - Gulf of Maine – Alexandrium spp.

- Gulf of Mexico – *Karenia brevis*
- US West Coast – *Pseudo nitzschia* spp.
- US Tropical regions - *Ciguatera* spp.

Identify information gaps and recommend social science and economic research priorities to improve documentation and quantification of the impacts of HABs on society and societal responses.

**2:50 - 3:00**      **Return to Plenary and Wrap-Up**

### DAY 3 - August 03

**11:45 - 12:00**      **Login for August 3rd** :<http://noaacsc.adobeconnect.com/ussihabw/>  
Participants begin logging in and testing equipment

**12:00 - 12:10**      **Recap Plan for Day 3**

**12:10 - 3:00**      **Case Study Presentation/Discussions**

Objective: Report out from each case study discussion on social and economic consequences, human responses to the hazard, any gaps, priorities for research.

- Great Lakes - Cyanobacteria
- Gulf of Maine - *Alexandrium* spp.
- Gulf of Mexico - *Karenia brevis*
- US West Coast - *Pseudo-nitzschia* spp.
- Tropical - *Ciguatera*

**2:50 - 3:00**      **Wrap Up, Charge for Next Day**

### TIME

### DAY 4 - August 05

**11:45 - 12:00**      **Login for August 5th**: <http://noaacsc.adobeconnect.com/ussihabw/>

**12:00 - 3:00**      **Review and Discuss Recommendations and Priorities Identified During Case Studies**

Objectives:

- **Methodological Approaches**: Identify recommended methodological approaches and any relevant examples of economic and social science assessment.
- **Framework for Aggregating Assessments**: Can we create a framework for assessing the social and economic effects of HABs at local, state, regional, and national levels.
- **Research Priorities**: Identify economic and social science research priorities.

# U.S. Socioeconomic Impacts of Harmful Algal Blooms Workshop

## **Purpose:**

Develop an **assessment framework for a national research agenda** that will lead to comprehensive evaluations of the social and economic effects of harmful algal blooms (HABs) in fresh and marine waters of the United States, including the costs of responding to and mitigating those effects.

## **Objectives:**

- Share the **relevant science** concerning HABs and the methods that have been used for assessing their social and economic effects and societal responses.
- Identify the **types** of social and economic effects associated with HABs, the populations and social systems most likely to be affected, and the direct and indirect pathways for how they are affected.
- Identify **methods** for assessing the social and economic effects of HABs, including novel approaches used to assess the effects of other hazards or events (e.g. disease outbreaks, oil spills, hurricanes, fish stock collapses, etc.).
- Develop and present **regional case studies** to illustrate the broad range of HAB effects and variable responses by local and state governments, federal agencies, the academic and private sectors, and communities.
- Identify the most promising **research approaches** to examine effects and responses for each case study and to evaluate whether these approaches work for other HAB events.
- Identify **challenges** in estimating the economic and social impacts of HABs and societal responses, including data gaps and limitations, and propose solutions to address them.
- Characterize ways in which a deeper understanding of the actual and potential economic and social effects of HABs can **help inform** regional management and research.
- Develop **recommendations** for current and future research to inform best practices for a national study of the social and economic impacts of HABs in the United States.

## **Products/Outcomes:**

1. **Workshop proceedings** and a **comprehensive review** of the extant research addressing the social and economic effects of HABs.
2. A **framework for assessing** the social and economic effects of HABs at local, state, regional, and national levels.
3. A **research agenda** that will lead to a better national estimate of the social and economic effects and costs of response to HABs in the United States and will identify effective societal responses for minimizing negative effects.