WELCOME TO THE North Carolina Aquaculture Gear Management and Storm Preparedness Workshop

Gear tags provided for interested growers who attend!

Photo: Baxter Miller, Courtesy NC Sea Grant. Publishing rights available upon request.
COMMUNICATING With the Presenters

1. Type your Question or Comment in the Chat box. Select who you would like to send it to, i.e., All-Entire Audience or a specific attendee. Click the Send Button.

2. Don't see the question box?

3. Use the Raise your Hand button to respond to the presenter(s) when they ask for a show of hands.
THANK YOU!
Southeast and Caribbean Regional Team
Workshop Goal

The workshop will bring together the shellfish aquaculture community to *improve aquaculture gear management and storm preparedness* throughout coastal North Carolina.
Objectives | after this workshop you should be able to:

- Discuss the importance of *environmental and community stewardship* within the aquaculture industry
- Find available *resources and information* pertaining to aquaculture gear management
- Understand *practical gear management techniques* and *proper gear deployment and maintenance*
- Understand the *impacts of derelict gear* and work being done to prevent loss and retrieve gear for farmers
- Know how to *use NOAA National Weather Service products and forecasts* to prepare aquaculture farms and businesses for different severe weather events
- Know how to *develop a storm preparedness plan* for a shellfish aquaculture farms or businesses in line with current state initiatives
Poll Questions:

1. On a scale of 1-5 (1 being no impact and 5 being extremely impacted), how significantly have storms impacted your operations?

2. In storms where gear was broken and lost, roughly what percentage was recovered and returned to working order?
   - 0-25%
   - 25-50%
   - 50-75%
   - 75-100%
   - Unsure
NOAA Marine Debris Program

Sarah Latshaw, Southeast Regional Coordinator
Marine Debris Program
Office of Response and Restoration
National Oceanic and Atmospheric Administration / Lynker

Photo: White Stone Oyster Company
NOAA Marine Debris Program

Established in 2006 by Congress and reauthorized in 2018 through the Save Our Seas Act

Photo: Coastal Cleanup Corporation
Program Pillars

- Prevention
- Removal
- Research
- Emergency Response
- International Engagement
- Regional Coordination

Photo: NOAA
Removal Grants

- Annual Competition (Opens Jul/Aug)
- Community-based marine debris removal projects
- Benefit coastal habitat, waterways, and wildlife
- Medium and large debris
- Alternative disposal

https://marinedebris.noaa.gov/resources/funding-opportunities
- Coordinated effort and message
- Provides a roadmap - focused direction
- Developed by those working on the issue
- Focuses on reducing:
  - Abandoned and Derelict Vessels
  - Consumer Debris
  - Derelict Fishing Gear
  - Wildlife and Habitat Impacts
Marine Debris Response Guides

Disaster Preparedness Program Overview

Vision: Communities are safer through optimal disaster preparation.

Mission: To prepare the National Ocean Service (NOS) and Partners to respond to and recover from pollution events and natural disasters.

Mandate from NOAA leadership to support all of the National Ocean Service.

Program includes the NOAA Gulf of Mexico Disaster Response Center.
Disaster Preparedness Program

Program Capabilities

- **Plan.** Ensuring NOS emergency plans for continuity of operations are up-to-date and feasible.

- **Organize/Equip.** Ensure NOS responders have the right resources, sufficient manpower, and adequate support to carry out mission essential work.

- **Train.** Emergency preparedness, response, and recovery training for NOAA field responders, federal partners, and state and local emergency managers.

- **Exercise.** Annual exercises ensure the plans, personnel, and training are coordinated to deliver the best possible response posture.

- **Evaluate/Improve.** A dedicated continuous improvement program.

- **Recovery.** Support NOAA planning, coordination and operational engagement in long term recovery of coastal communities and natural resources after disaster.
Planning

Continuity of Operations (COOP)

• Update NOS COOP to ensure the continuous performance of identified NOS essential functions and operations during an emergency
• NOS COOP maintained by DPP

Support Plan Development

• Support planning efforts for NOS Program Offices and government agency partners
• Support storm preparedness planning for coastal industries
Training Workshops and Exercises

**Training**
- NOAA ICS 300: Intermediate Incident Command System for Expanding Incidents
- Resource Advisor Training
- Science of Oil Spills
- Science of Chemical Releases
- Science of Coastal Hazards (*in development w/ FEMA*)

**Workshops**
- NOAA Regional Preparedness Training Workshops
  - 2 to 4 workshops per year
  - Focus on regional and state needs

**Exercises**
- Exercises help NOS and our partners test our abilities to ensure we can carry out our missions effectively and efficiently during a disaster
NOS Incident Management Team

- Focus on NOS incident coordination, preparedness, and improvement across NOS program offices
  - Activations: PMI – Personnel – Mission – Infrastructure
  - Team includes Ops, Planning, Safety, Contracts, IT, etc.

Response Liaisons

- Liaison to NOAA Homeland Security Program Office, FEMA, and state emergency management agencies
- Regional liaisons strategically placed throughout the country including the Southeast
Florida Aquaculture Gear Management Workshop

Sheelish Aquaculture Gear Management Workshop 2018
Florida Department of Agriculture and Consumer Services
Division of Aquaculture

Date
September 12th, 2018

Location
FWC Senator
Kirkpatrick Marine Lab.
11350 SW 153rd Court.
Coral Gables, FL 33156

Project Summary
The National Marine Sanctuary Foundation in coordination with NOAA Marine Debris Program provided funding to the Florida Department of Agriculture and Consumer Services, Division of Aquaculture (FDACS) to host a training workshop targeting the aquaculture industry and shellfish farmers in Cedar Key, FL. Travel funds were utilized to support diverse representation at the workshops.

Currently, there are no existing resources to educate the Cedar Key shellfish farming community on aquaculture debris issues or to organize routine cleanup events. FDACS aimed to address these resource gaps through a training workshop and an associated cleanup event. The workshop discussed the importance of environmental stewardship and provided practical management techniques to farmers, such as proper gear anchoring methods and severe-storm preparation strategies.

FDACS conducted a marine debris survey in June 2018 and presented marine debris map and information following workshop/training sessions in order to organize an effective cleanup, which was held on September 15, 2018.

More Information
- A list of workshop and cleanup details is available at: shellish.net/ of the Shellish Management Program.
- Shellish Aquaculture Gear Management Related Documents:

Florida Department of Agriculture and Consumer Services
Division of Aquaculture
Shellfish Management Program

Florida Fish and Wildlife Conservation Commission
Office of Aquaculture

NOAA Marine Debris Program
Get the facts on shellfish habitat and marine debris:
6075500-01-2018

NOAA Marine Sanctuary Foundation
https://www.marinesanctuaries.org/

IFAS Extension University of Florida
Sea Grant Marine Stewardship

Florida Department of Agriculture and Consumer Services
Adam H. Putnam, Commissioner