

An underwater photograph of a coral reef. The water is clear blue, and the coral is a mix of brown and yellowish-orange. Several small, colorful fish are visible swimming around the coral. The image is partially obscured by a white curved shape on the right side of the slide.

CORAL REEF RESTORATION AND MITIGATION

In Florida and beyond...

Jocelyn Karazsia, NOAA Fisheries Southeast Region

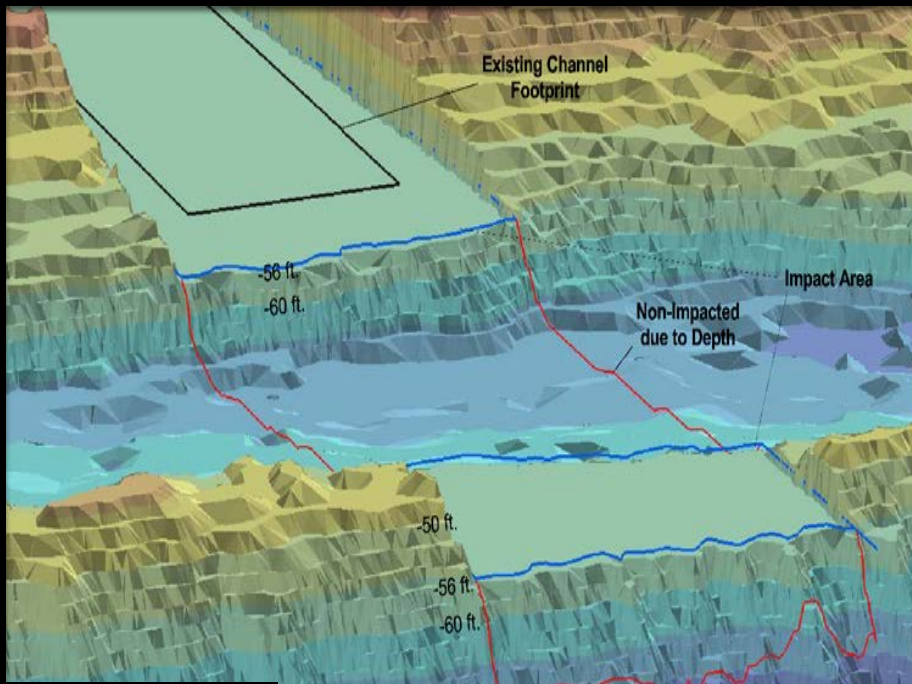
Tom Moore, NOAA Restoration Center, Southeast Region

James Byrne, The Nature Conservancy

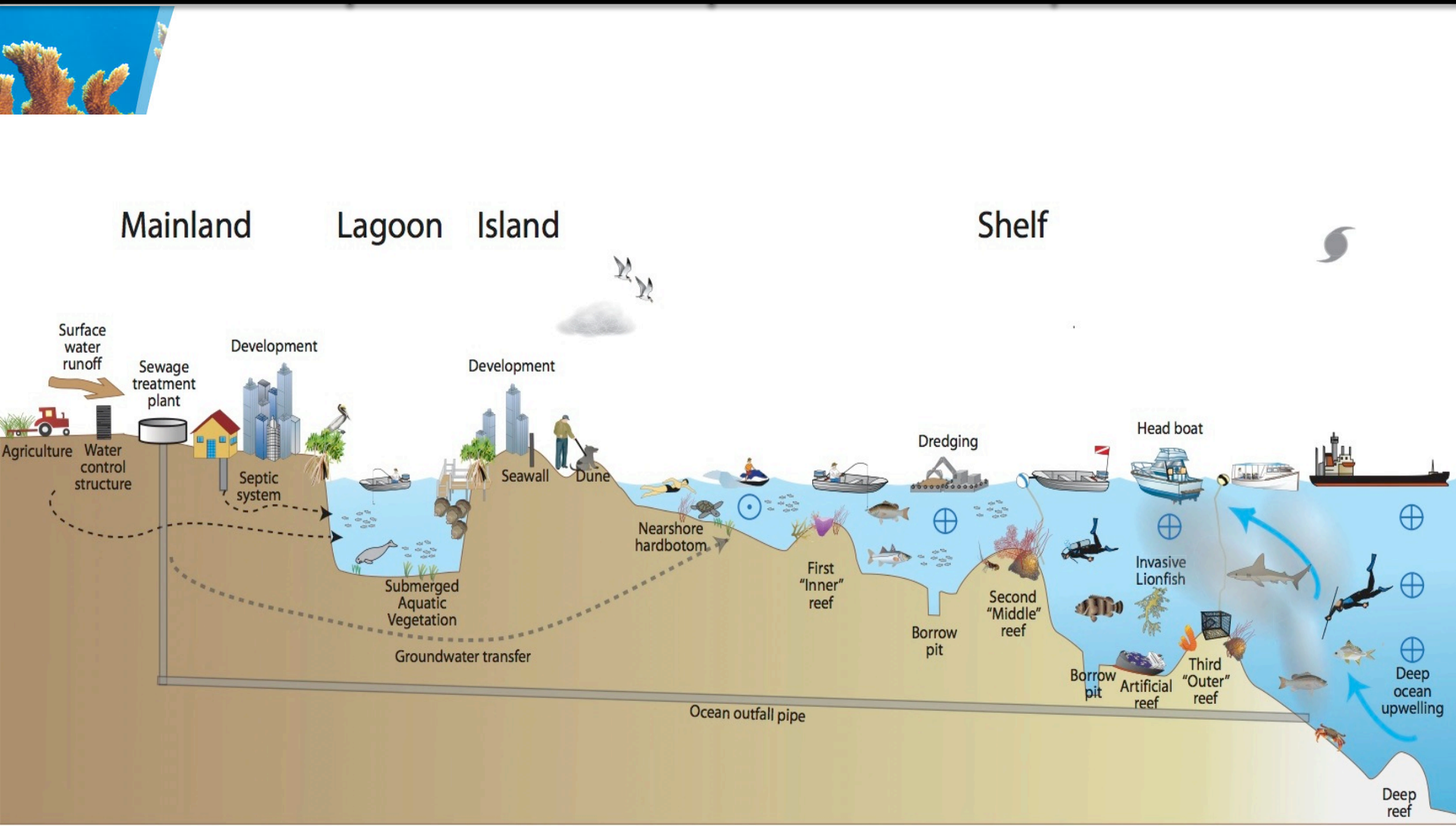
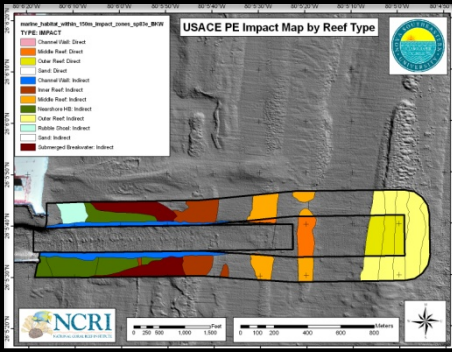
**Dave Gilliam, Nova Southeastern University
Oceanographic Center, National Coral Reef Institute**

**John Hunt, Florida Fish and Wildlife Conservation
Commission**











Why is Restoration Necessary...

- **Coastal Development**
- **Physical Impacts & Destruction**
- **Decreased Reef Resilience**
- **Negative Feedback Loops Associated with Small Populations**

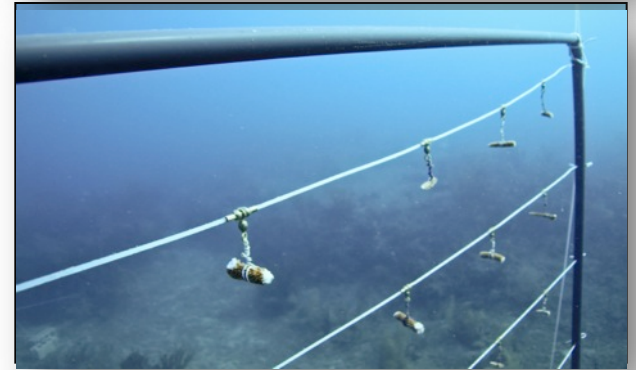
An underwater photograph of a coral reef. The water is clear blue, and the coral is a mix of brown and green. Several small yellow and blue fish are visible swimming around the coral. The image is partially obscured by a white curved shape on the right side of the slide.

What do we mean by Coral Reef Restoration & Mitigation...

- **Restoration**
 - **Projects that minimize or eliminate human-induced threats such as vessel groundings, land-based pollutions, etc.**
 - **Projects that create or enhance the resources or habitats that benefit reefs.**
 - **Activities that directly enhance reef resilience and recovery ability**
- **Mitigation**
 - **Projects that attempt to offset lost ecosystem services resulting from planned impacts**
- **Limitations**
 - **Successful Restoration and Mitigation are a necessary part of the global efforts to recover reefs, and may in some cases help maintain status quo, but by themselves are not sufficient to recover coral reef ecosystems.**

Ongoing and future efforts...

- **Implementing Watershed Restoration Efforts to Reduce LBSP**
- **Restoring Reefs after Physical Impacts**
- **Restoring Acropora Populations in Order to Support Future Natural Recovery**
- **USCTRF Resolution from the 25th meeting to establish a Coral Reef Injury Prevention and Mitigation Work Group and traction on:**
 - **Attempting to implement effective mitigation for planned impacts**
 - **Integrated Resource Management**
 - **Improving Restoration Science**



An underwater photograph of a coral reef. The water is clear blue, and the coral is various shades of brown and orange. Several small fish are visible swimming around the coral. The image is partially obscured by a white curved shape on the left side of the slide.

USCRTF Member Roles

- **Ensure that all USCRTF agencies require appropriate and effective mitigation and support restoration**
- **Recognize opportunities to fill management gaps through reauthorization of Coral Reef Conservation Act**
- **Implement and enforce existing mandates and regulations with a greater emphasis on protecting coral reef from impacts**
- **Continue to promote partnerships focused on threat reduction**