

A Process-Oriented Framework for Considering Artificial Reefs

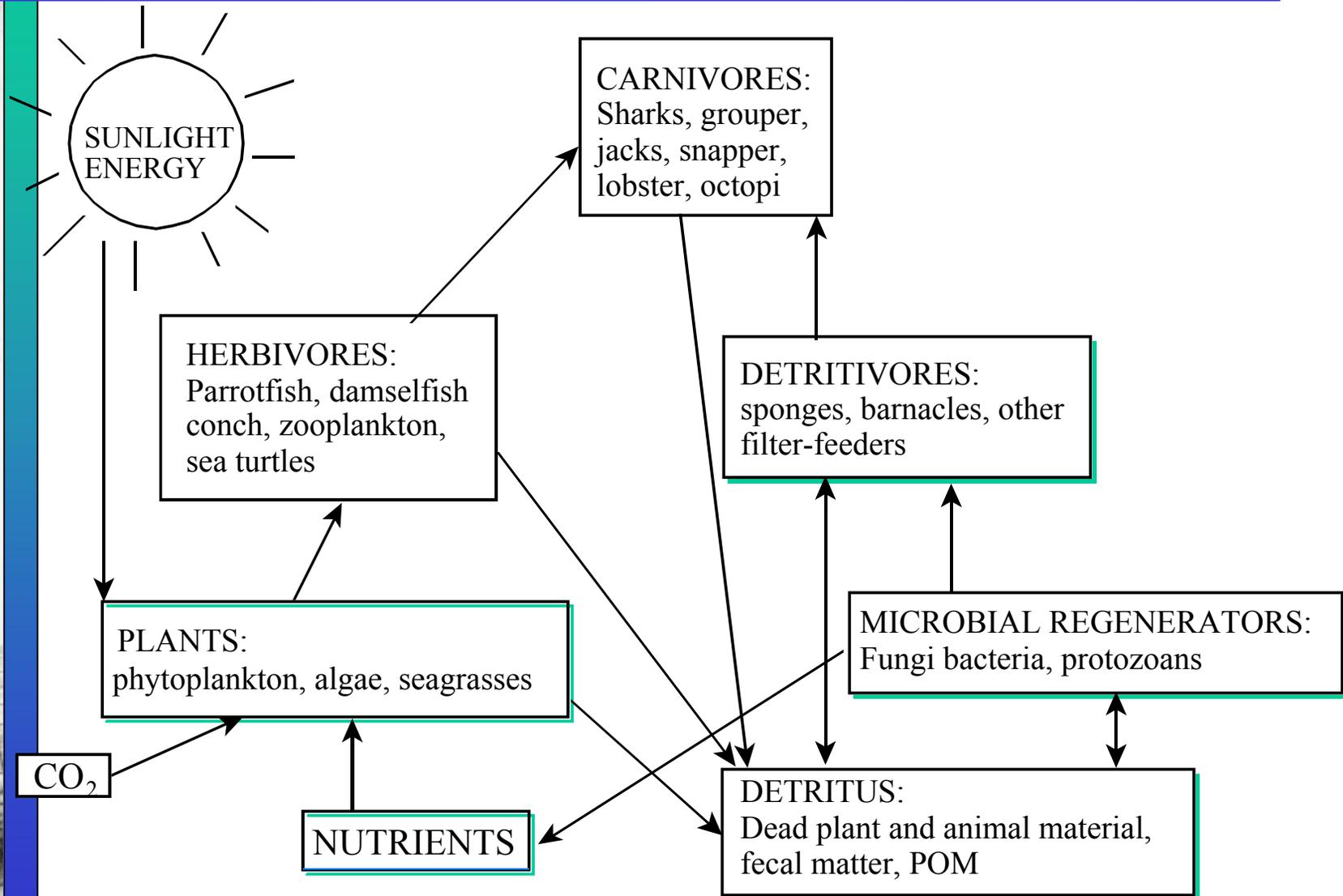
Dr. William J. Lindberg
Department of Fisheries & Aquatic Sciences
University of Florida - IFAS
Gainesville, Florida

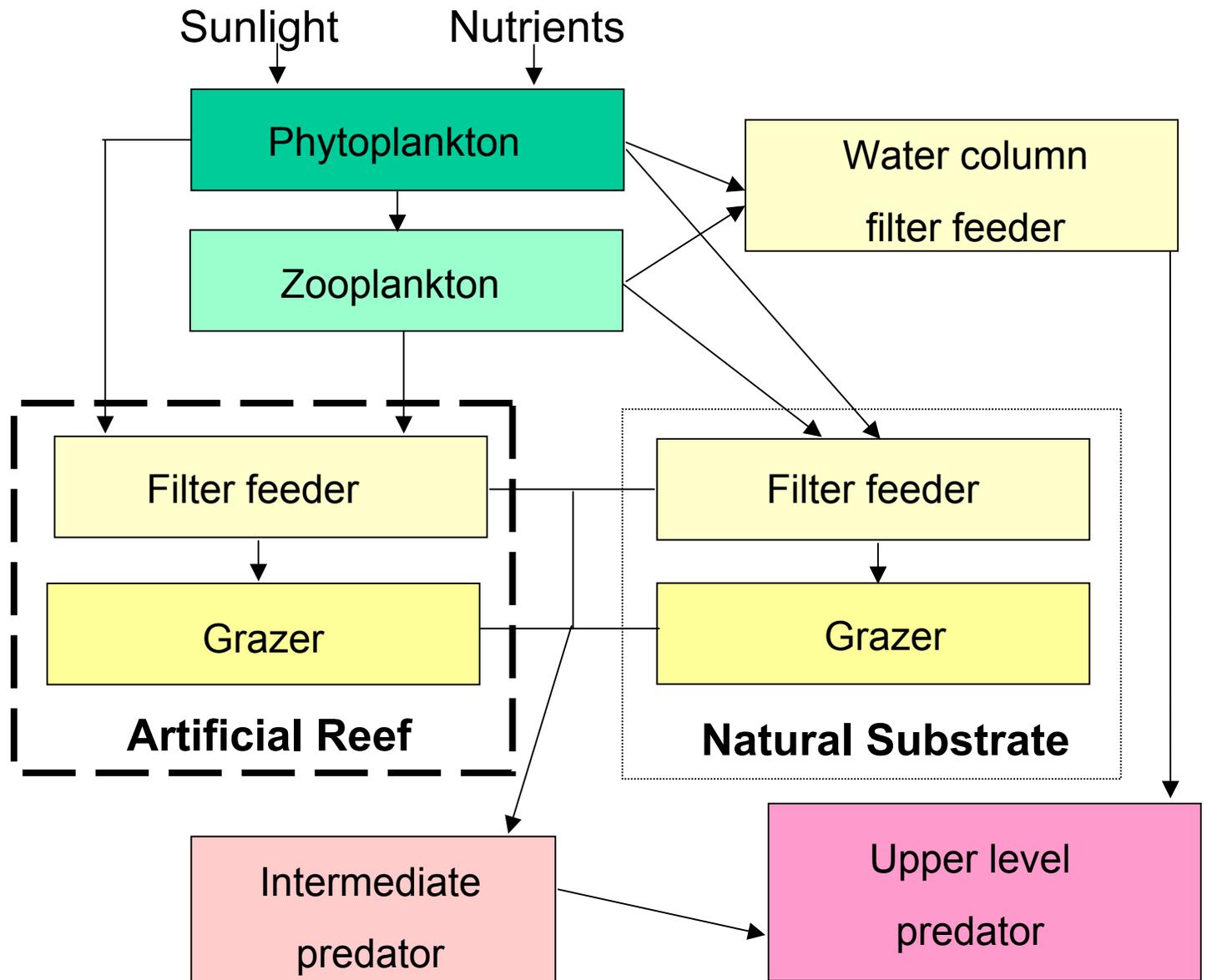
Objectives

- Focus your thinking on ecological processes manipulated by artificial reefs.
- Clarify the importance of having specific management objectives for reef projects.
- Acknowledge values in decision-making.

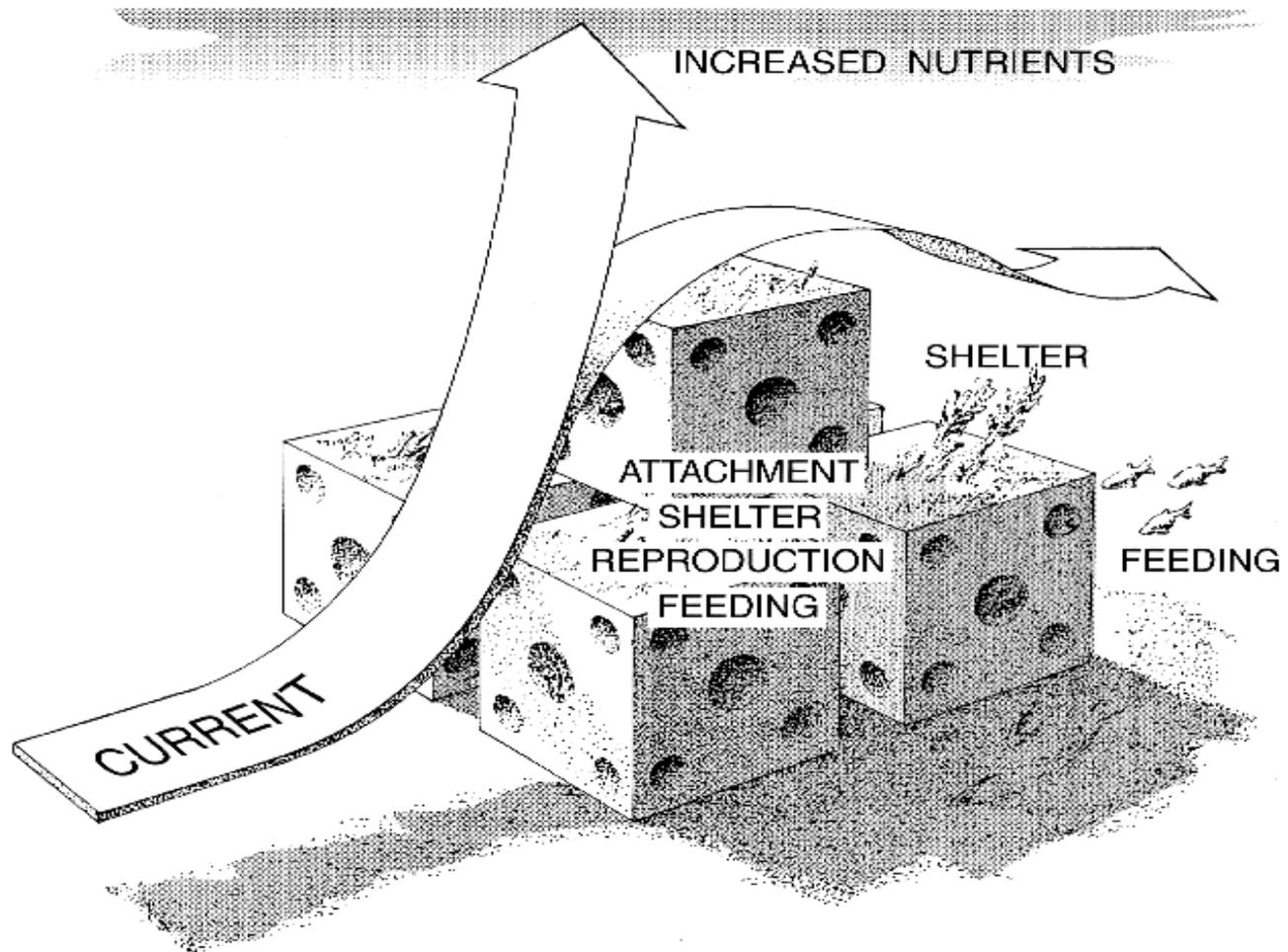


Reefs are more than rocks and fish!!

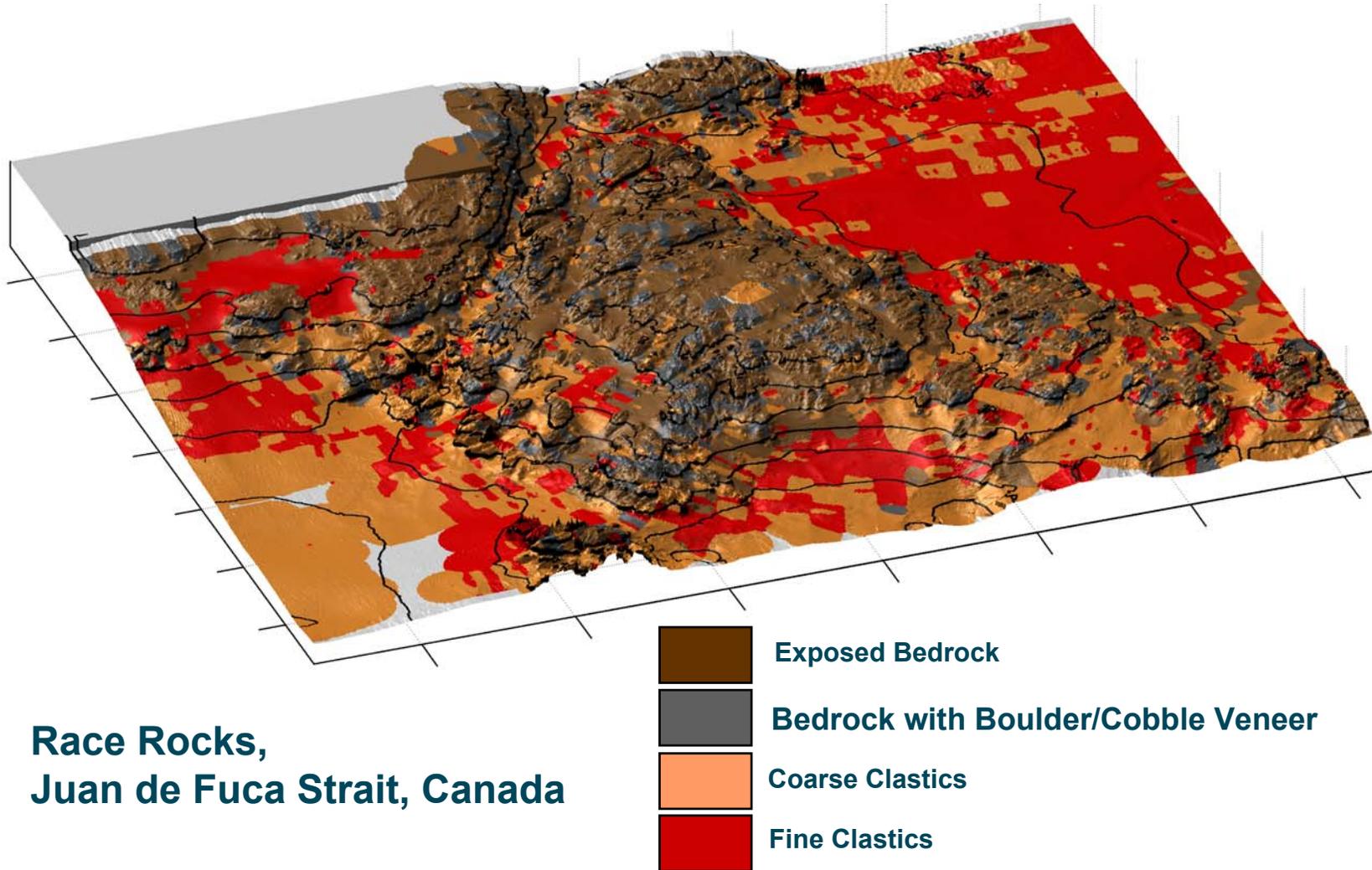




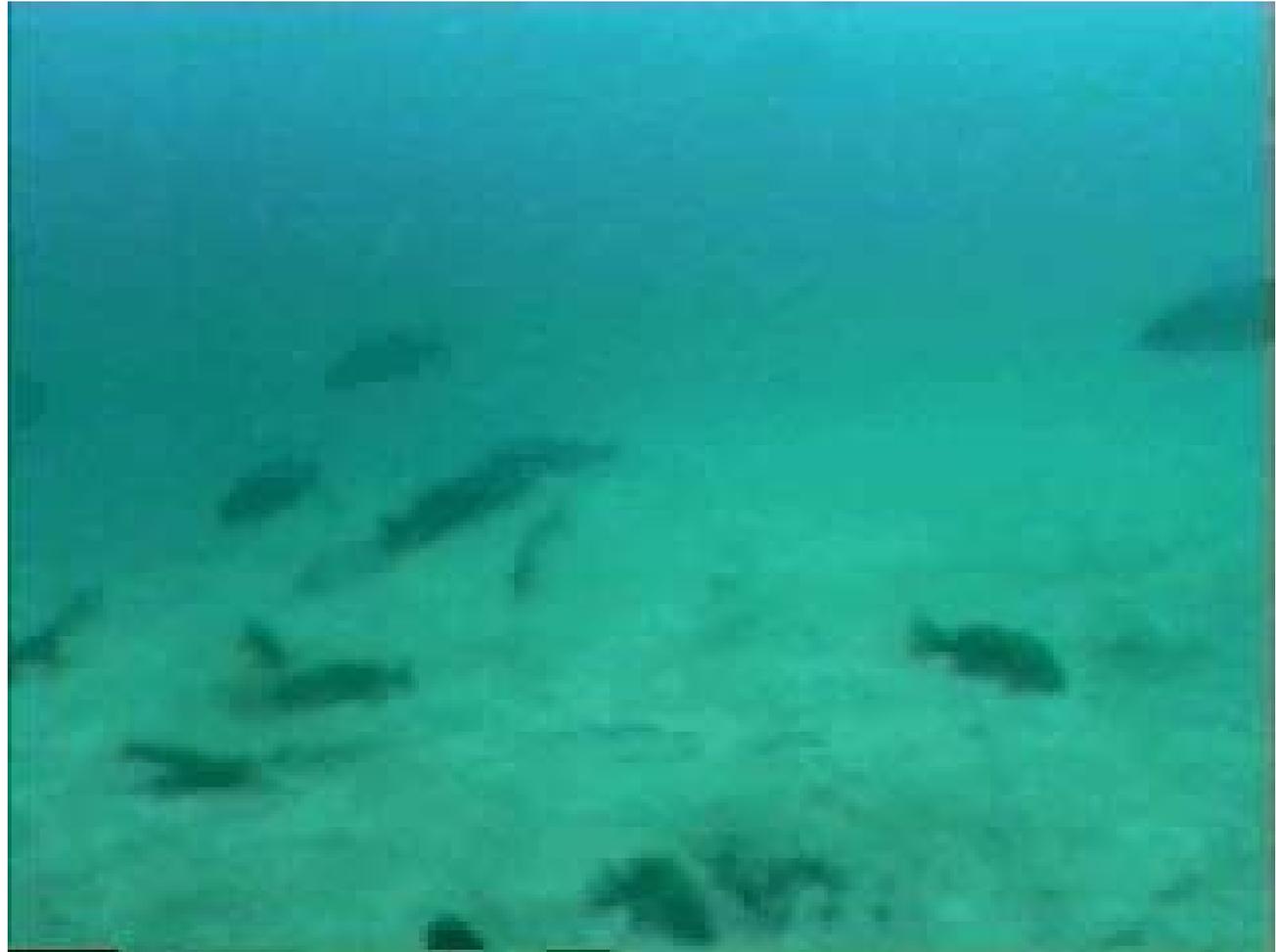
Physical Structure and Hydrodynamics



Landscape Processes & Mosaics



What Ecological Processes Might Apply Here?

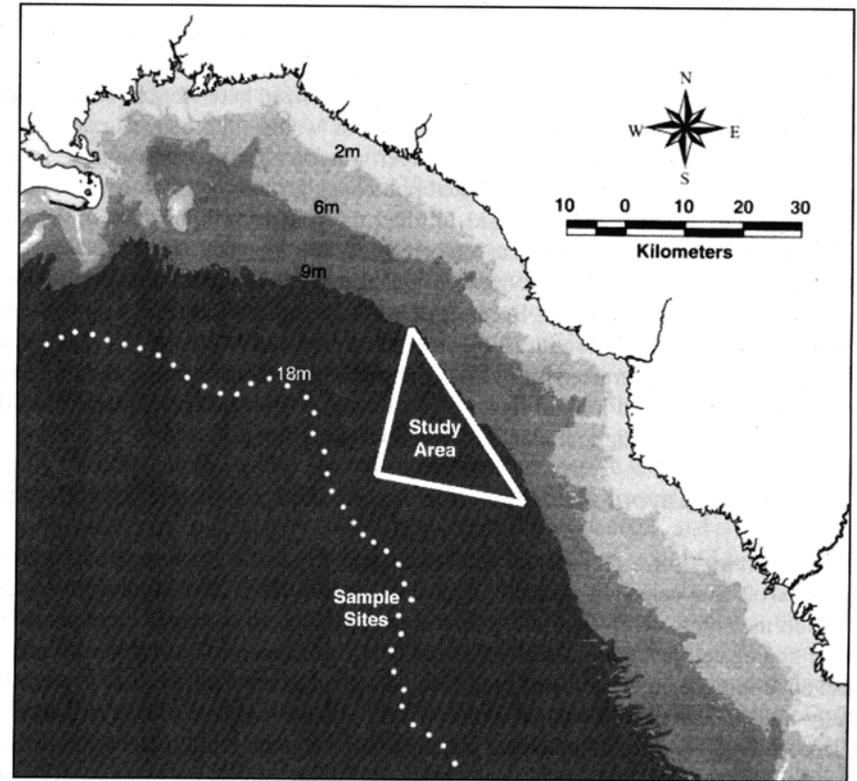
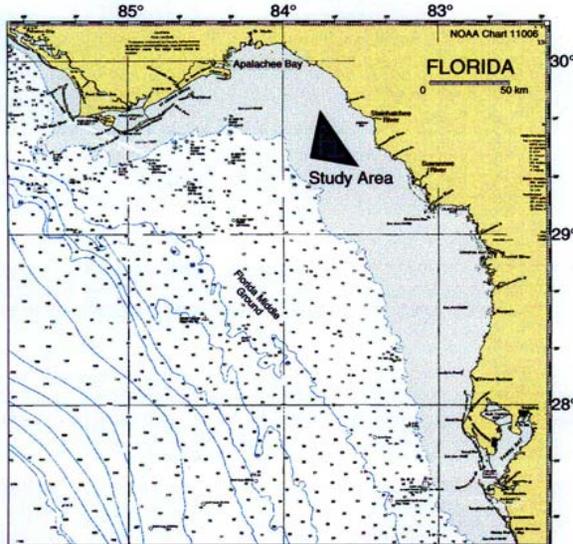


Density-Dependent Habitat Selection



Possible life history bottleneck for gag.

Proposed Steinhatchee Fisheries Management Area



Given the specific objective, evaluation is focused outside the reef system.

Applications of Reef Technology

- **Research & Education**

- **Conservation of Biodiversity**

- **Habitat Restoration**

- **Habitat Mitigation**

- **Habitat Protection**

- **Fisheries Conservation**

- **Recreational Diving**

- **Submarine Tourism**

- **Recreational Fishing**

- **Artisanal Fishing**

- **Commercial Fishing**

- **Aquaculture**



Values Affect Decision-Making



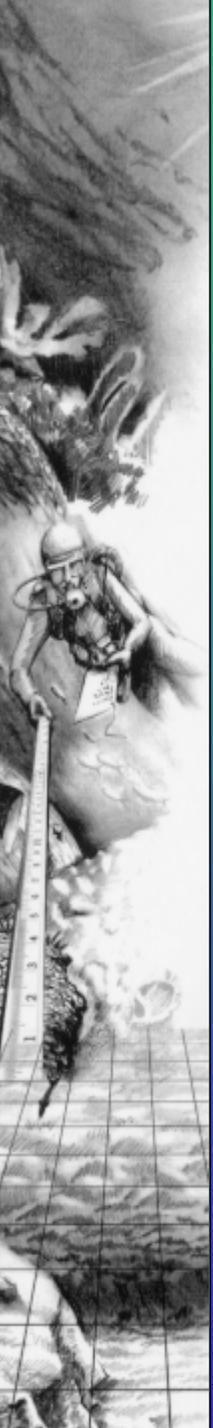
Preservation

Conservation

Exploitation

The Questions Posed

- Are reefs good, bad or indifferent?
- Do they produce new biomass or increase primary productivity?



Reference Material

- Contents

- Applications
- Statistics
- Engineering
- Primary Producers
- Invertebrates
- Fish
- Economics
- Project Planning
 - Reprint Available

