

# Sustaining and Leveraging the North Atlantic during Century 21.0 - the Ocean Century

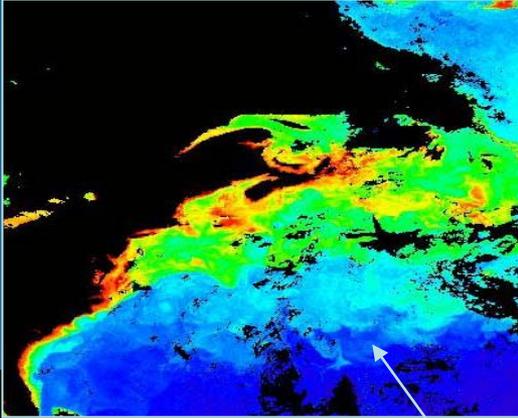
Don Perkins  
President  
Gulf of Maine Research Institute

GULF OF MAINE RESEARCH INSTITUTE

SCIENCE. EDUCATION. COMMUNITY.

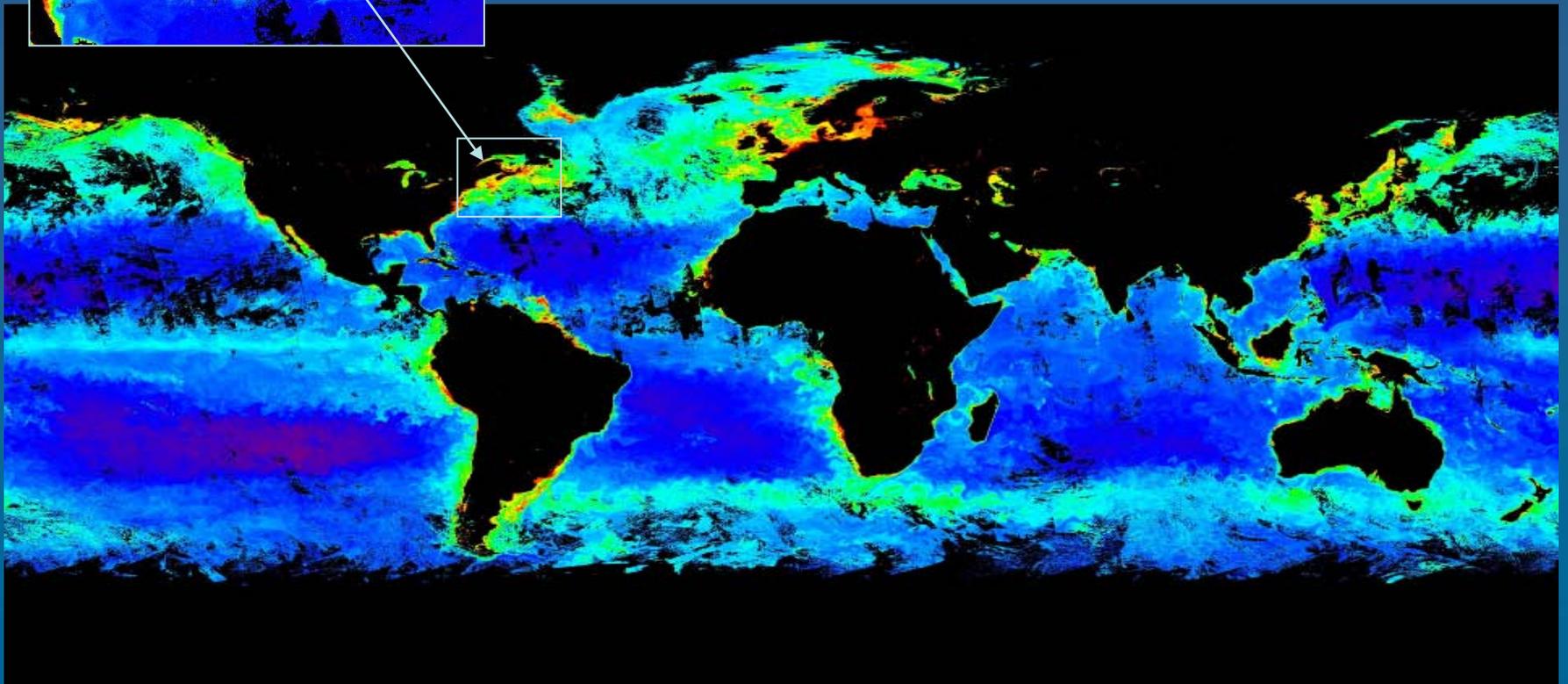
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# NORTHWEST ATLANTIC AS COMPETITIVE ADVANTAGE

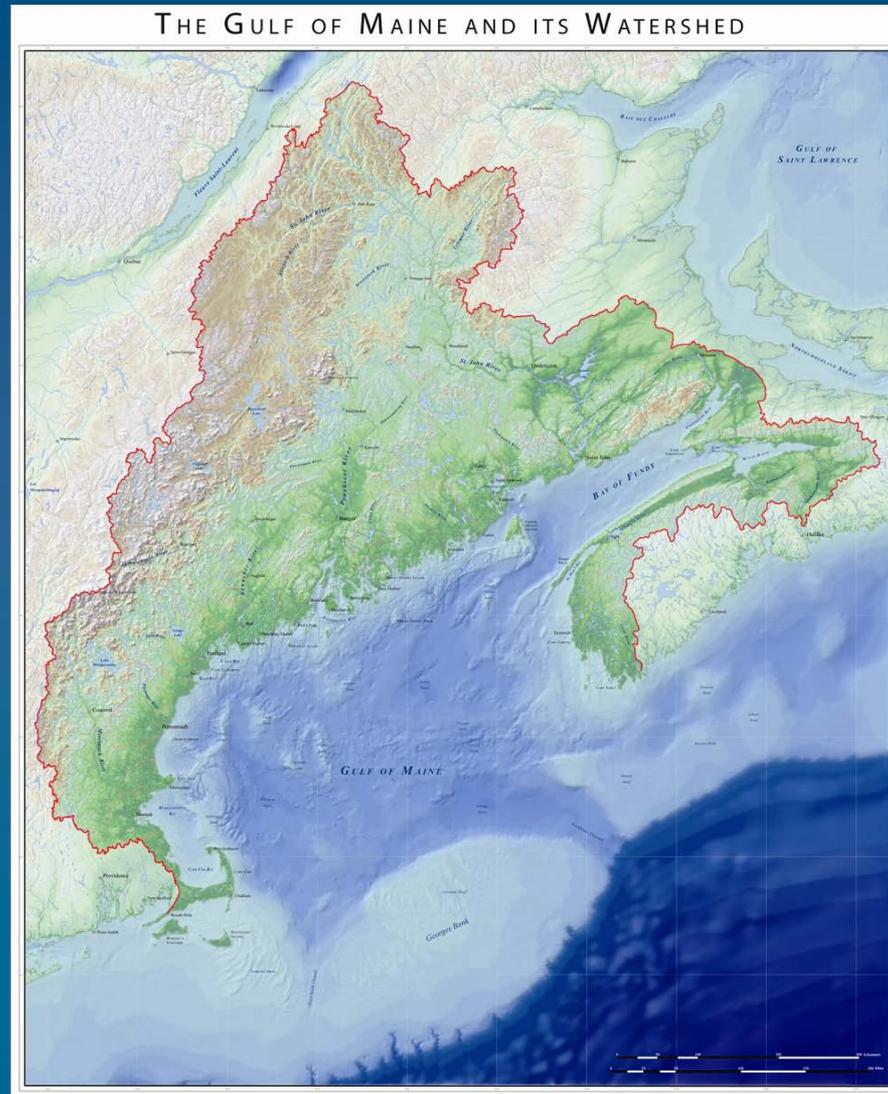


One of the world's most productive marine ecosystems...

... an oasis in an ocean desert.



# GMRI MARKET SPACE – GULF OF MAINE BIOREGION



# GMRI MISSION

The Gulf of Maine Research Institute **catalyzes solutions** to the complex challenges of **ocean stewardship** and **economic growth** in the Gulf of Maine bioregion...

# SCIENCE: AN ECOSYSTEM APPROACH

John	Jenny	Graham	Shelly	Steve	Andy	Jeff
						
Chief Scientific Officer	Resource Economics	Fishery Ecology	Fish Behavior	Fishing Gear Engineering	Ecosystem Modeling	Biological Oceanography

- Interdisciplinary
- International
- Engaged

INSPIRING STUDENTS TO EXCEL IN STEM

# IMMERSING STUDENTS IN RESEARCH

at the Gulf of Maine Research Institute

# COMMUNITY CONVENING & PROBLEM SOLVING

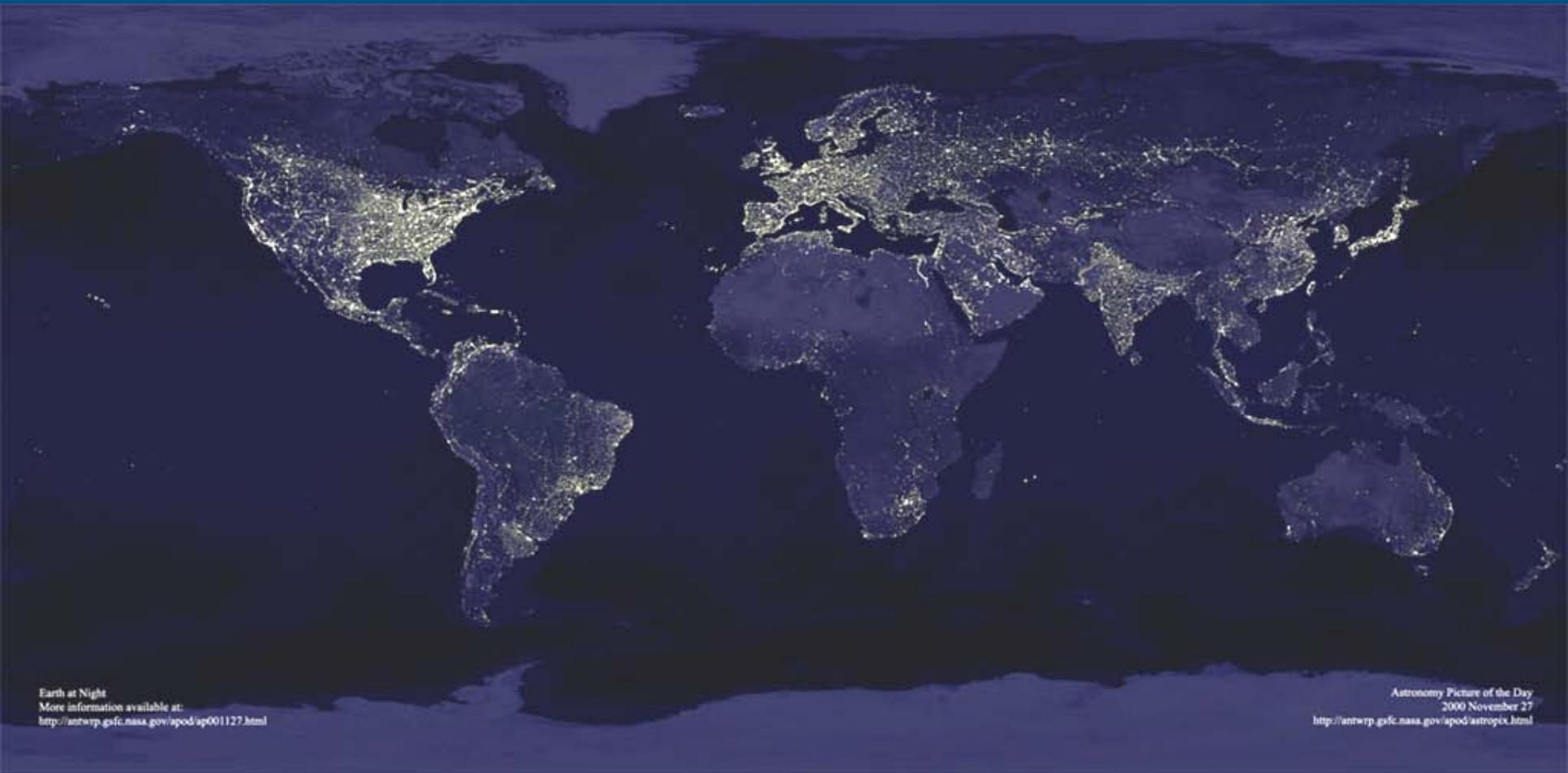


# WE LIVE ON PLANET “OCEAN”

Photo credit: NASA



# WE PREFER LIVING ON THE COAST

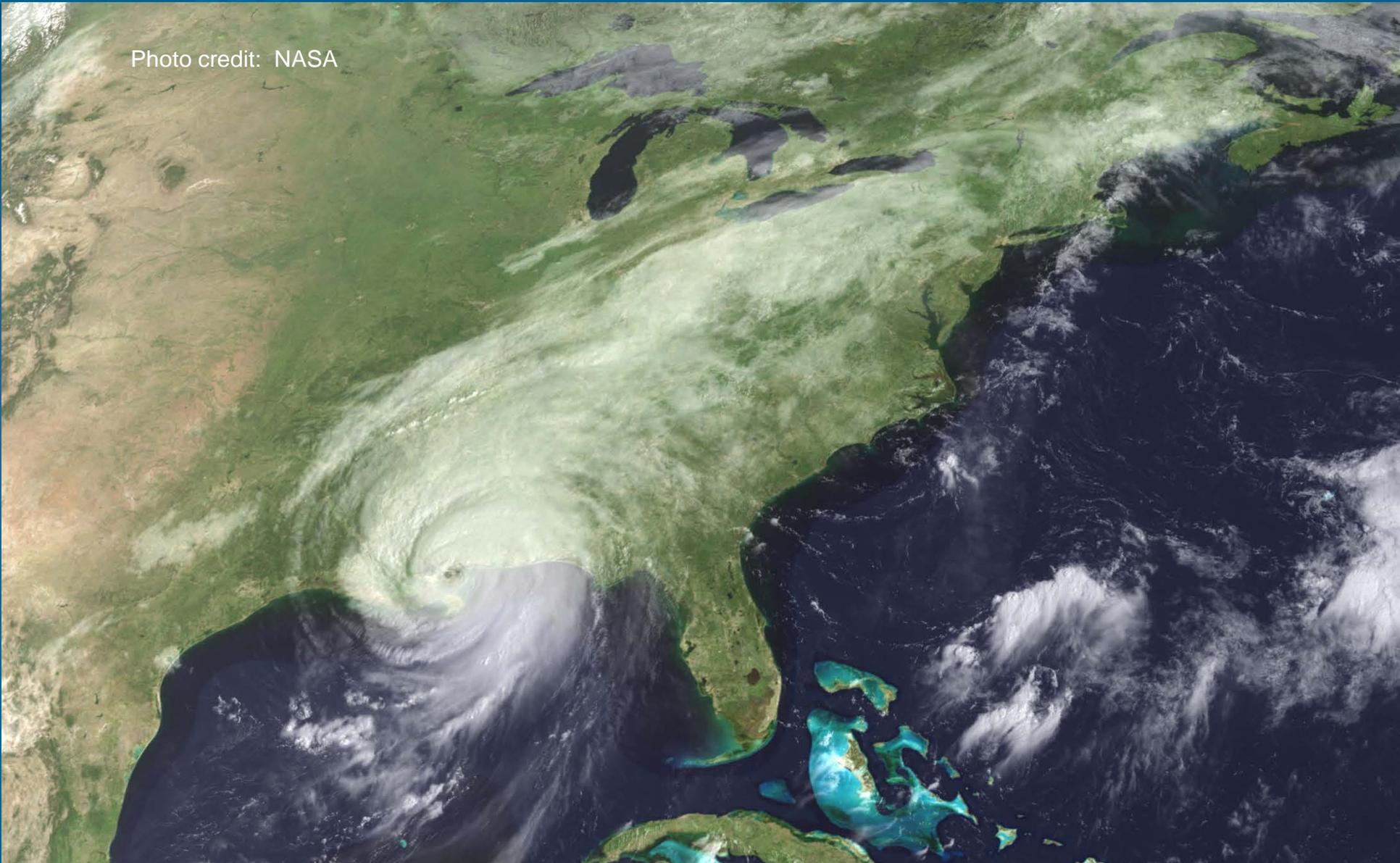


Earth at Night  
More information available at:  
<http://antwrp.gsfc.nasa.gov/apod/ap001127.html>

Astronomy Picture of the Day  
2000 November 27  
<http://antwrp.gsfc.nasa.gov/apod/astropix.html>

# COUCH POTATO MEETS GLOBAL WARMING

Photo credit: NASA



# OUR THIRST FOR ENERGY TAKES US EVER DEEPER

Photo credit: NASA

Mississippi Delta

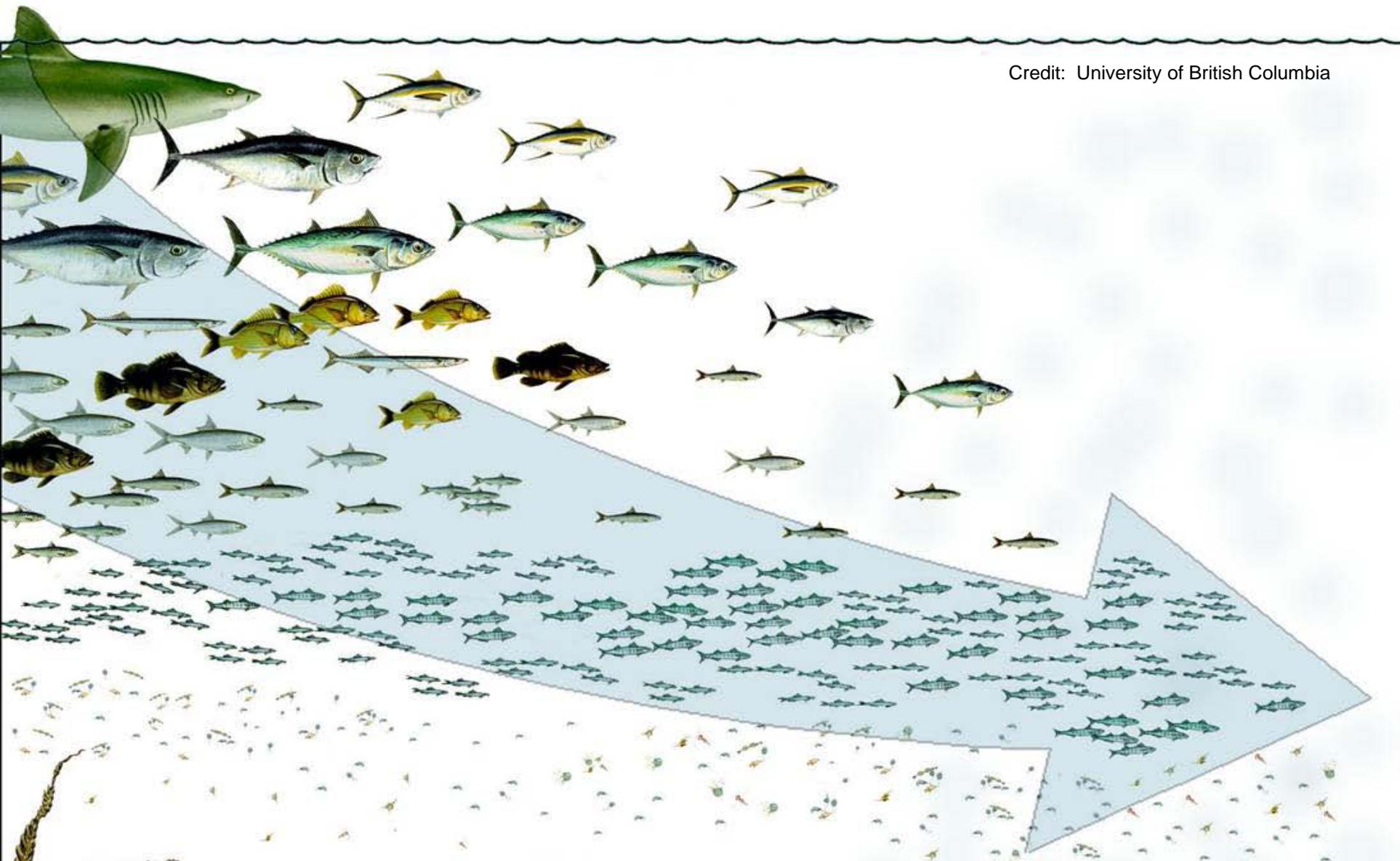
• *approximate location of Deepwater Horizon rig*

oil slick



# WHICH BILLION OF US WILL EAT THE LAST FISH?

Credit: University of British Columbia



# HOW DO WE FEED A HUNGRY WORLD?



# GROUND FISHERY AS COMPETITIVE ADVANTAGE



# HOW DO WE CAPITALIZE ON ENERGY DEMAND?

**GDF SUEZ** 11-15-2011 6:11 AM [contact us](#) | [locations](#) | [sitemap](#)

## GDF SUEZ Energy North America

[home](#) [who we are](#) [what we do](#) **[our companies](#)** [press](#) [careers](#)

- Retail Energy Sales and Services
- Wholesale Gas and Power
- Energy Generation
- LNG Operations
  - Distrigas of Massachusetts LLC
  - Neptune LNG LLC
- Renewable Energy
- Gas and Power Operations in Mexico



### Our Companies

#### GDF SUEZ Gas NA

##### Neptune LNG LLC

Neptune LNG LLC operates an LNG facility approximately 10 miles off the coast of Gloucester, Massachusetts. This facility will provide a new supply of natural gas to the New England region.

Clean and energy efficient, natural gas has become a mainstay throughout New England for heating homes and generating electricity. During the next two decades, the region's demand for natural gas is forecast to grow by 1-2% per year.

The Neptune LNG Deepwater Port has the capability of providing an average of 400 million cubic feet of natural gas per day—enough to serve 1.5 million homes daily. On very cold days and other periods of peak demand, Neptune could increase its delivery rate to 750 million cubic feet per day.

To learn more about the Neptune project, please see the links to the right under Related Info.

You can watch a short video about this project [here](#) (75MB MPEG Video).

#### Contact Us

*Business Office*  
Neptune LNG LLC  
Cruiseport  
6 Rowe Square  
Gloucester, MA 01930

*Information Line*  
800.270.4214

#### Related Info

- Brochure
- Neptune LNG DWP license application
- U.S. Coast Guard Deepwater Ports Standards Division
- Careers
- Locations

#### Leadership

Clay Harris  
President and CEO  
GDF SUEZ Gas NA

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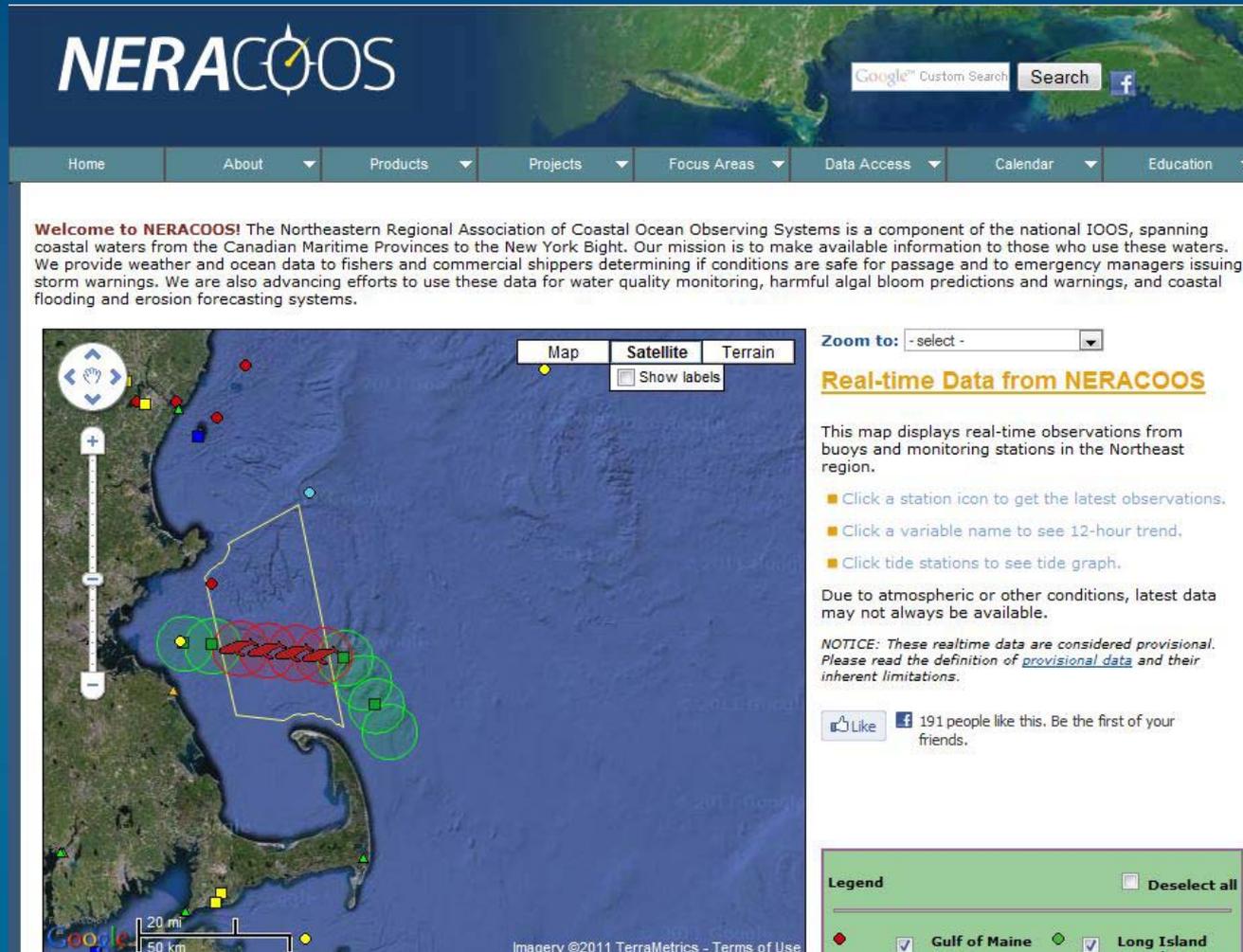
# HOW DO WE HARNESS THE OCEAN'S ENERGY?



# HOW DO WE CAPITILIZE ON MINERAL EXTRACTION?



# HOW DO WE LEVERAGE SENSOR/SPATIAL NEEDS?



**NERACOOS**

Home About Products Projects Focus Areas Data Access Calendar Education

**Welcome to NERACOOS!** The Northeastern Regional Association of Coastal Ocean Observing Systems is a component of the national IOOS, spanning coastal waters from the Canadian Maritime Provinces to the New York Bight. Our mission is to make available information to those who use these waters. We provide weather and ocean data to fishers and commercial shippers determining if conditions are safe for passage and to emergency managers issuing storm warnings. We are also advancing efforts to use these data for water quality monitoring, harmful algal bloom predictions and warnings, and coastal flooding and erosion forecasting systems.

Map Satellite Terrain Show labels

Zoom to: -select-

### Real-time Data from NERACOOS

This map displays real-time observations from buoys and monitoring stations in the Northeast region.

- Click a station icon to get the latest observations.
- Click a variable name to see 12-hour trend.
- Click tide stations to see tide graph.

Due to atmospheric or other conditions, latest data may not always be available.

*NOTICE: These realtime data are considered provisional. Please read the definition of [provisional data](#) and their inherent limitations.*

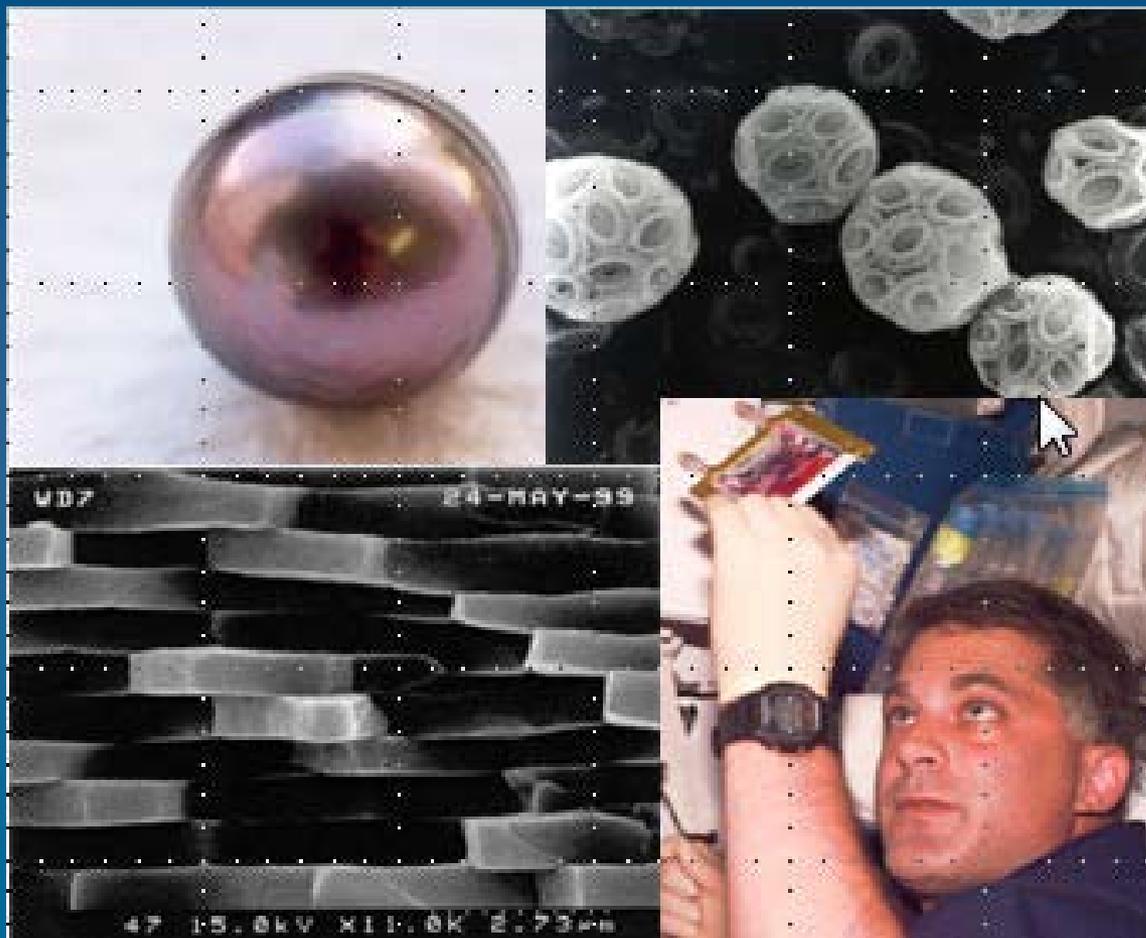
Like 191 people like this. Be the first of your friends.

Legend Deselect all

- Gulf of Maine
- Long Island

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# HOW DO WE UTILIZE THE OCEAN'S CHEMISTRIES?



# HOW DO WE CREATE OPPORTUNITY FOR OUR KIDS?

