

Use of Satellites To Provide Oceanographic Analyses for Studying the Sargasso Sea Ecosystem

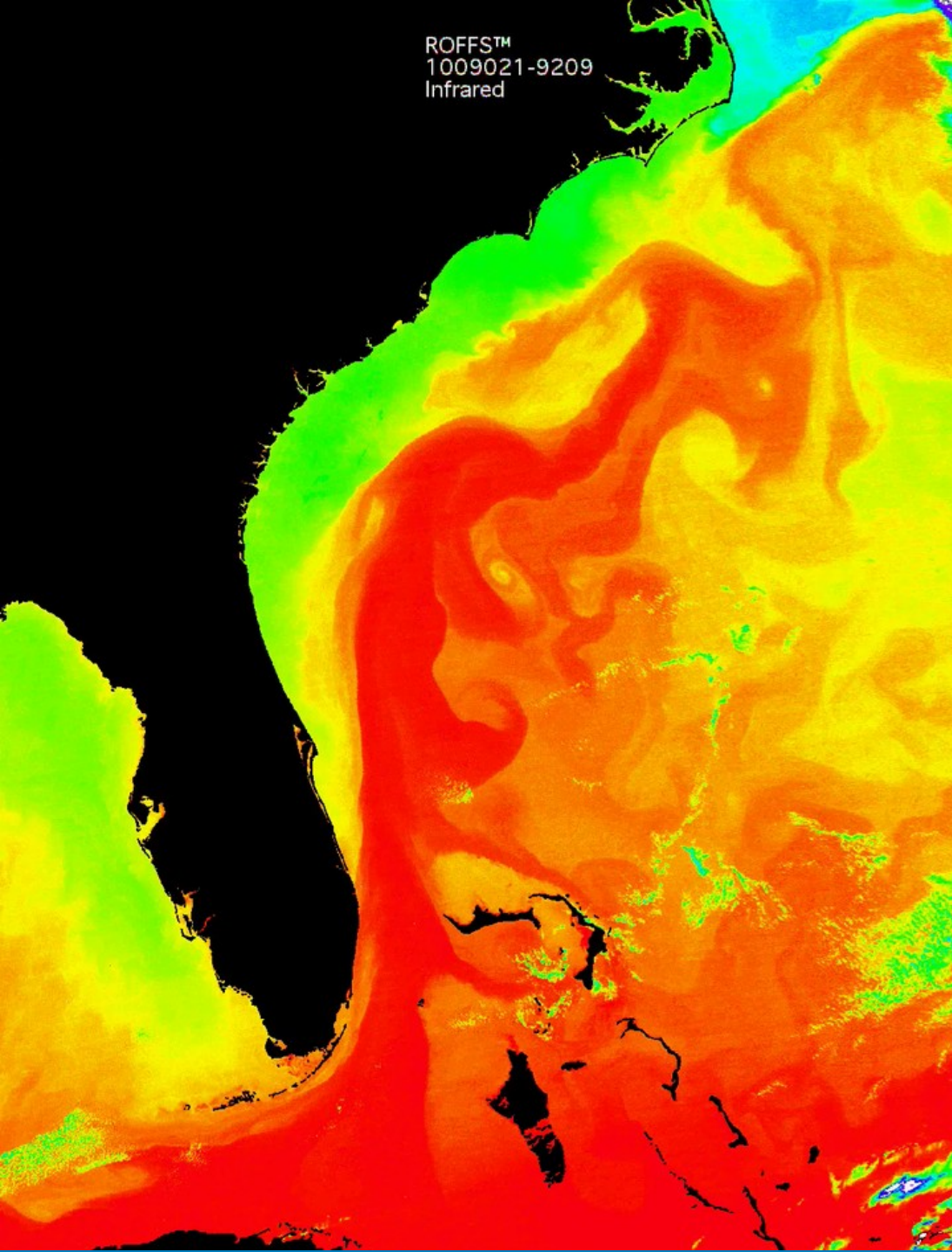
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ROFFER'S OCEAN FISHING FORECASTING SERVICE, INC.

ROFFS™
1009021-9209
Infrared



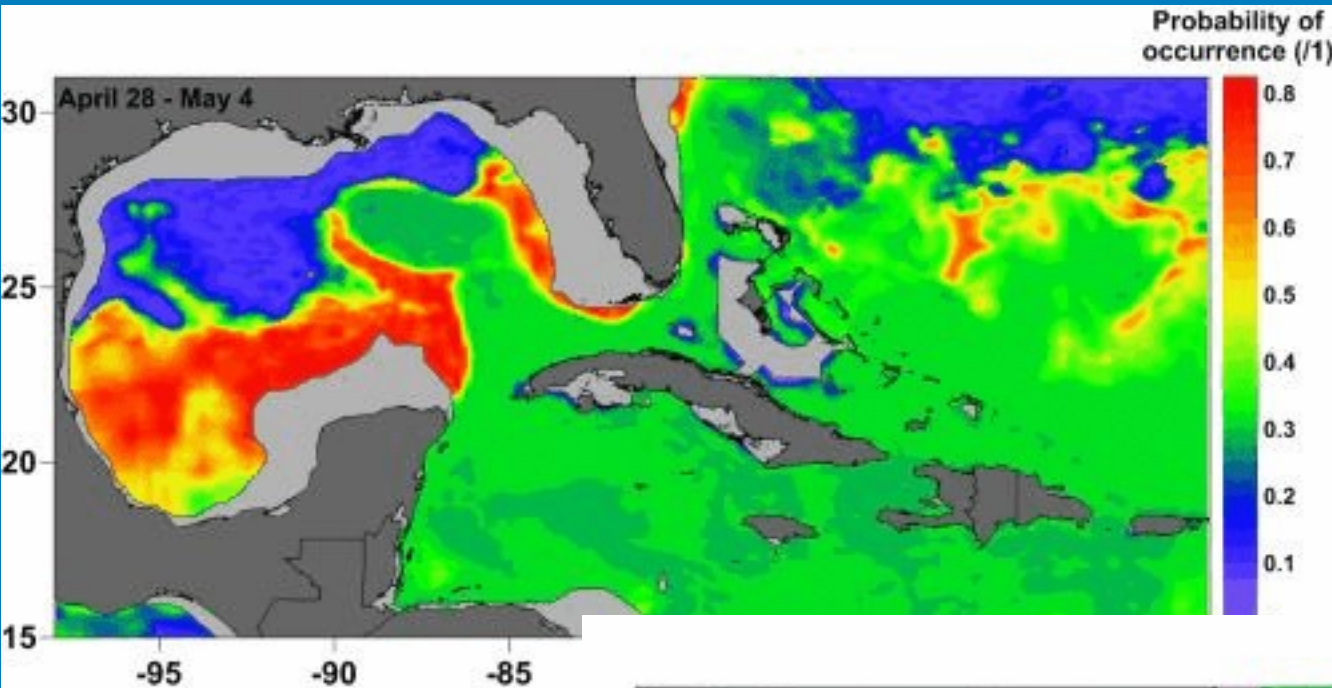
CONNECTIVITY CONTINUITY

**36 hour surface
circulation**

1.1 KM

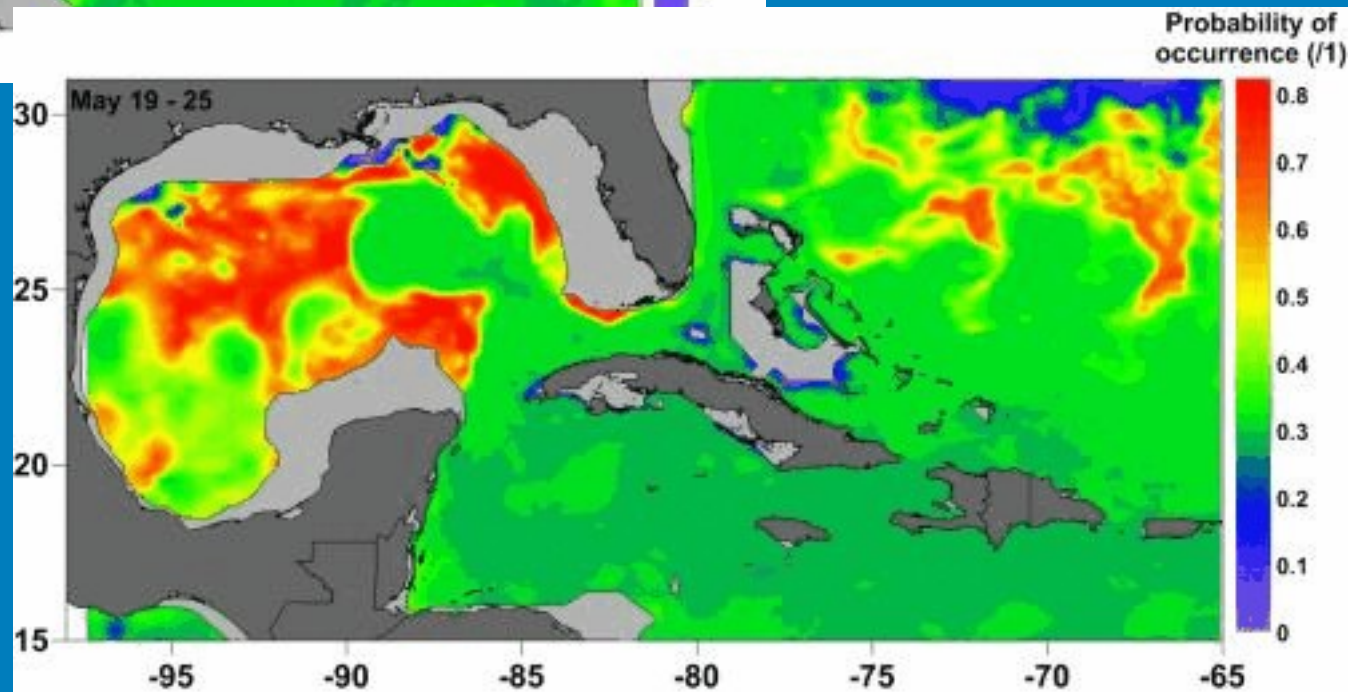
**Dynamic
Ocean**

Habitat in GOM, Bahamas, Caribbean 2013*



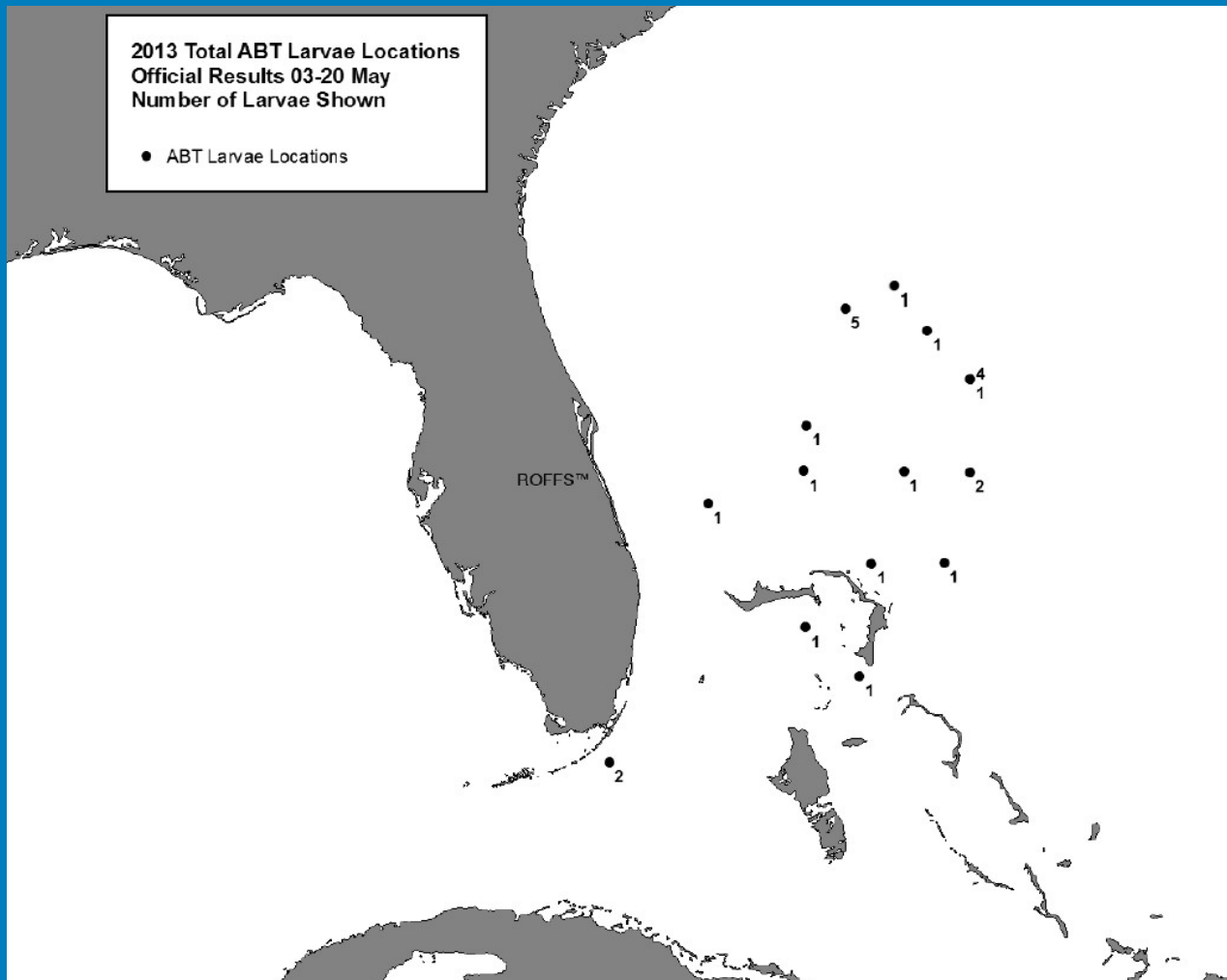
Evaluating
New/unknown
Spawning areas

- 2013 habitat model May
- Developed from GOM data!



2013 Results for ABT

16 Positive Stations - 16.5%



Where were they spawned?

Lagrangian Coherent Structures

Lagrangian coherent structures are structures which separate dynamically distinct regions in time-varying systems such as turbulent flows in fluid mechanics. These structures divide dynamically distinct regions in the flow and reveal geometry which is often hidden when viewing the vector field or even trajectories of the system. These structures often provide a nice tool in analyzing systems with general time-dependence, especially for understanding transport.

