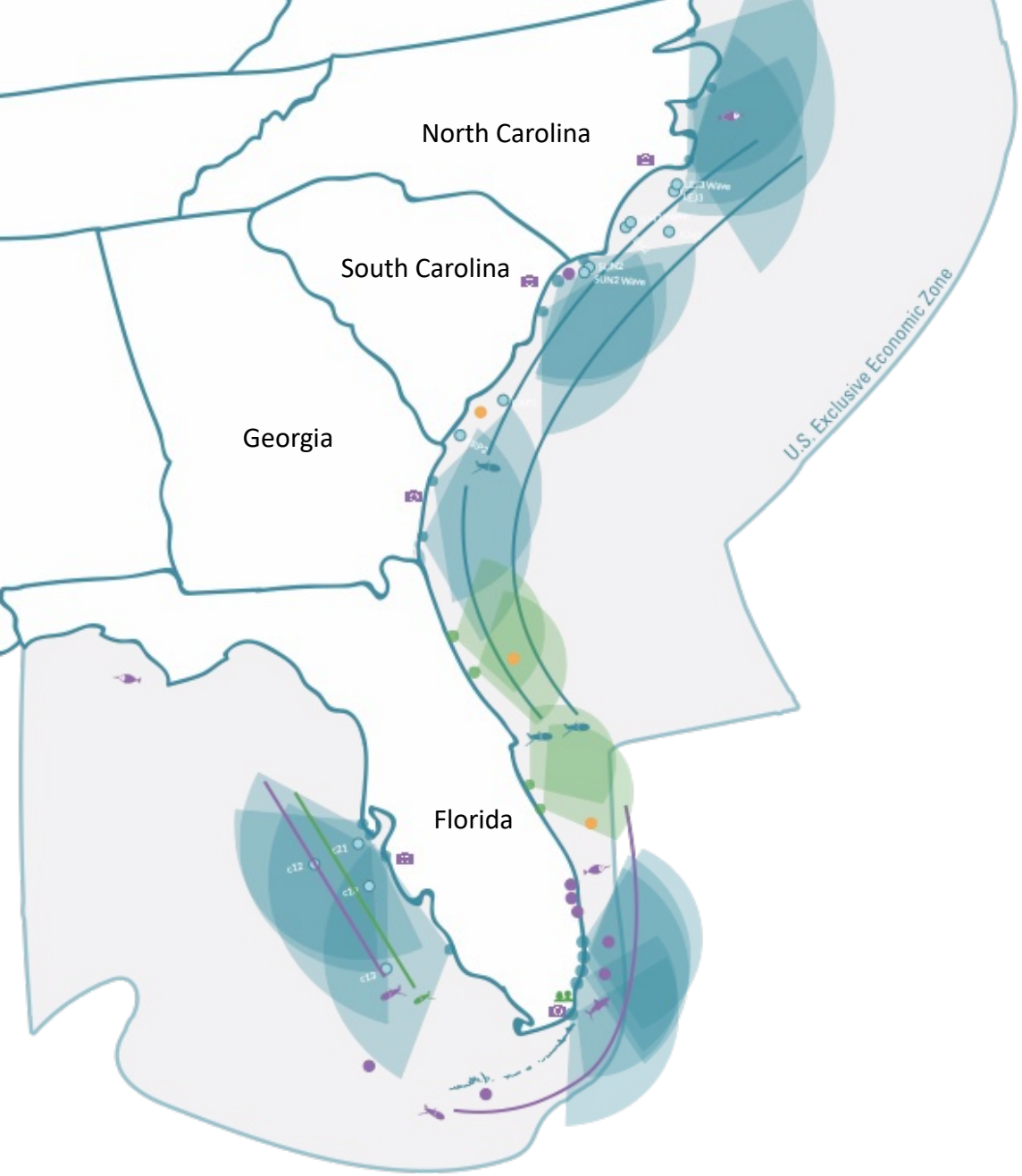

SECOORA
Southeast Coastal Ocean Observing Regional Association

Augmenting Ocean Observing through Artificial Intelligence: Annotation, Data Standards, and Applications

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David Kochan[1], Lauren Showalter[2], Kyle Wilcox[2], Enrique Montes[3], Frank Muller-Karger[4], Dan Otis[4]

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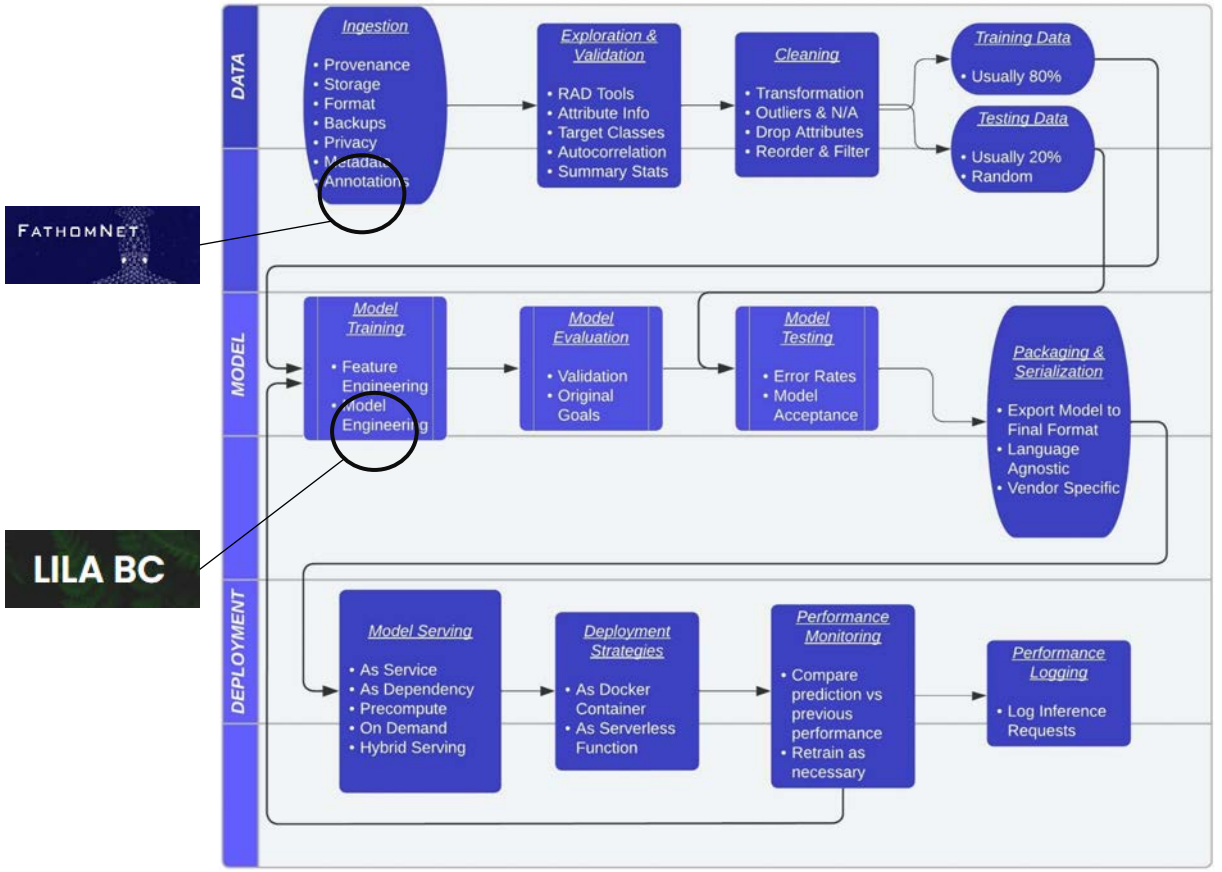
Overview of the Project

- Developing an AI resource on SECOORA's existing digital infrastructure that
  - Serves as an organized gateway to complementary AI resources
  - Hosts reproducible ocean observing pipelines to help regional partners complete AI projects through worked examples
- Existing AI resources are often specialized
  - How do you engage resources in one place?



Accomplishments

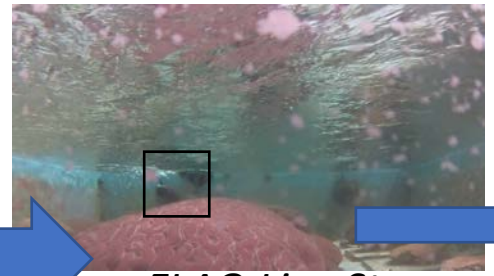
Documentation

AI annotation libraries, model repositories, standards, metadata and formatting requirements, and storage and access solutions.

- 8 meetings with different industry, academia, non-profit, and government AI stakeholders and domain experts;
- 2 machine learning training exercises;
- 3 symposia; 2 workshops

Use Cases

Video

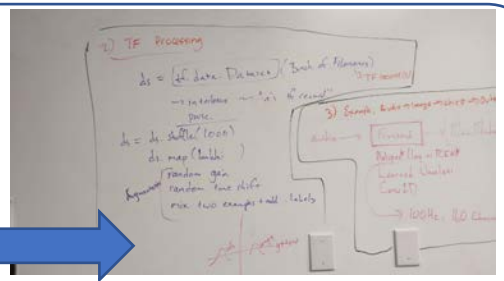


FLAQ Live Stream

Edge Computing Data Buoy

Acoustics

Modeling Workshop



Boat/No-boat; Fish/No-fish

Challenges and Looking Ahead