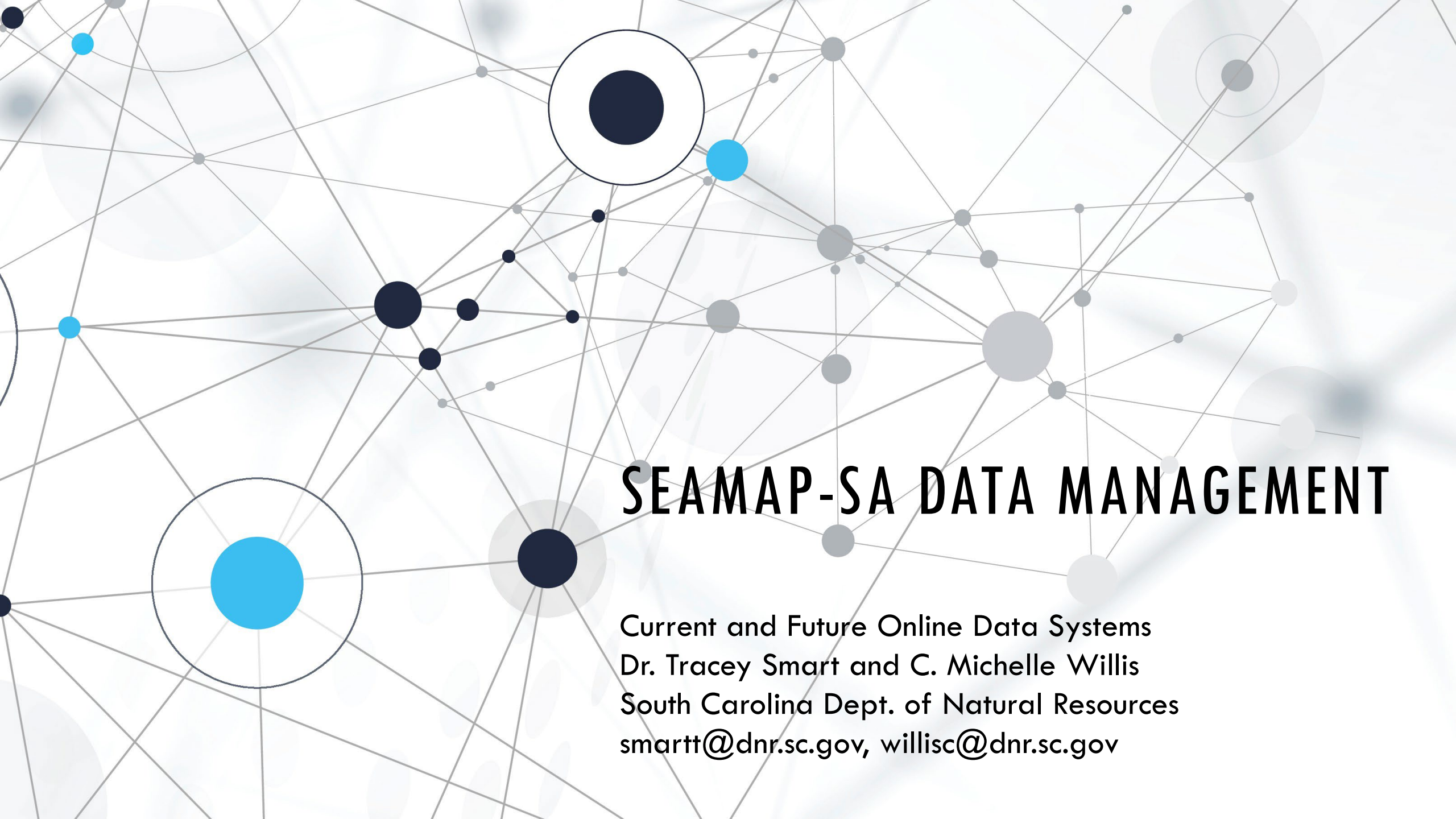


The background features a complex network diagram with numerous nodes of varying sizes (dark blue, light blue, and grey) connected by thin grey lines. Some nodes are highlighted with larger concentric circles. The overall aesthetic is modern and technological.

SEAMAP-SA DATA MANAGEMENT

Current and Future Online Data Systems
Dr. Tracey Smart and C. Michelle Willis
South Carolina Dept. of Natural Resources
smartt@dnr.sc.gov, willisc@dnr.sc.gov

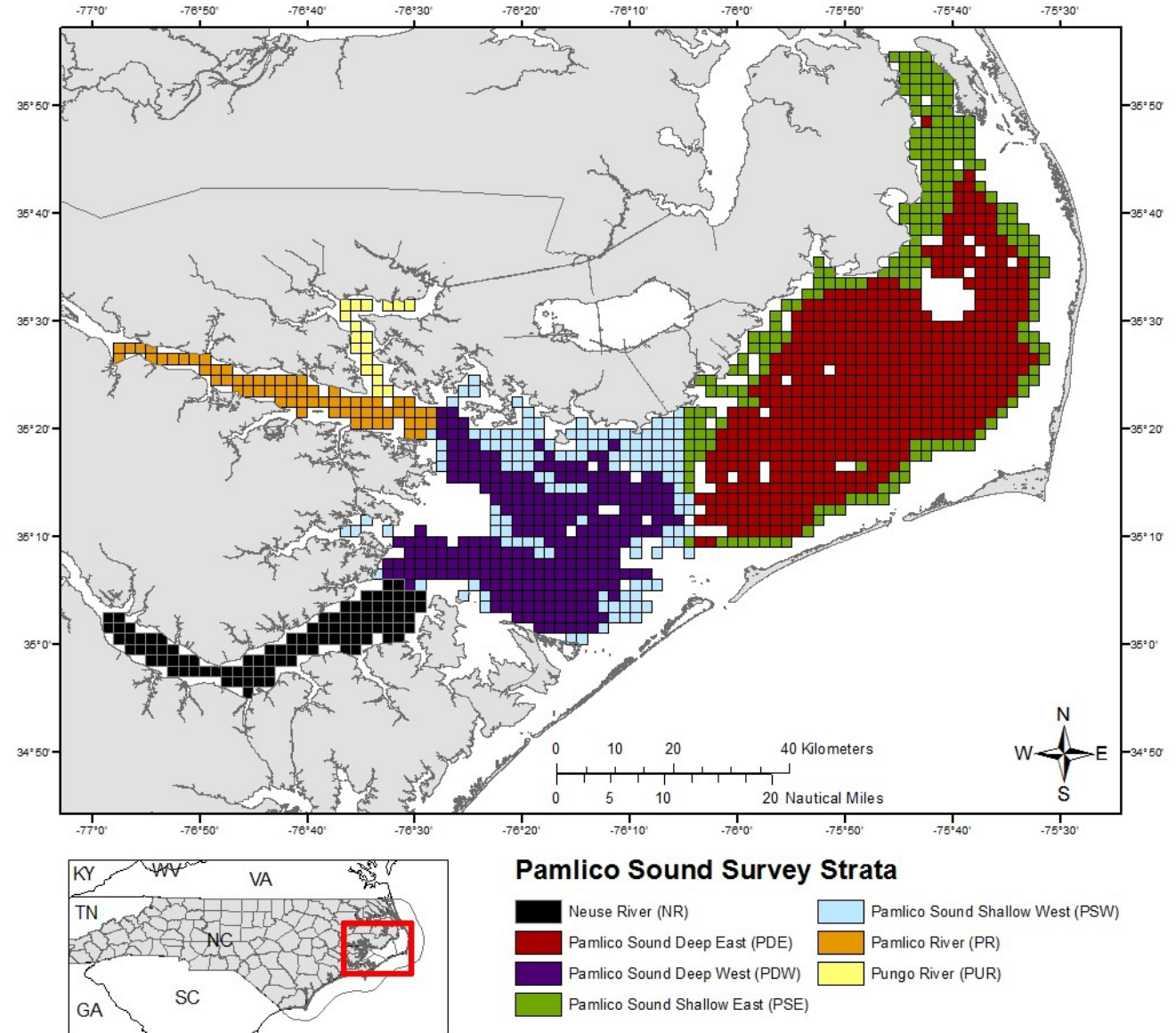
SURVEYS INCLUDED

Coastal Trawl Survey (SCDNR)

Pamlico Sound Survey (NCDMF)

Coastal Longline Survey (GADNR,
SCDNR, NCDMF)

Southeast Reef Fish Survey
(SCDNR & SEFSC)



TARGETED DATA PRODUCTS

Abundance & Biomass by Species

Multispecies Downloads

Length Frequency

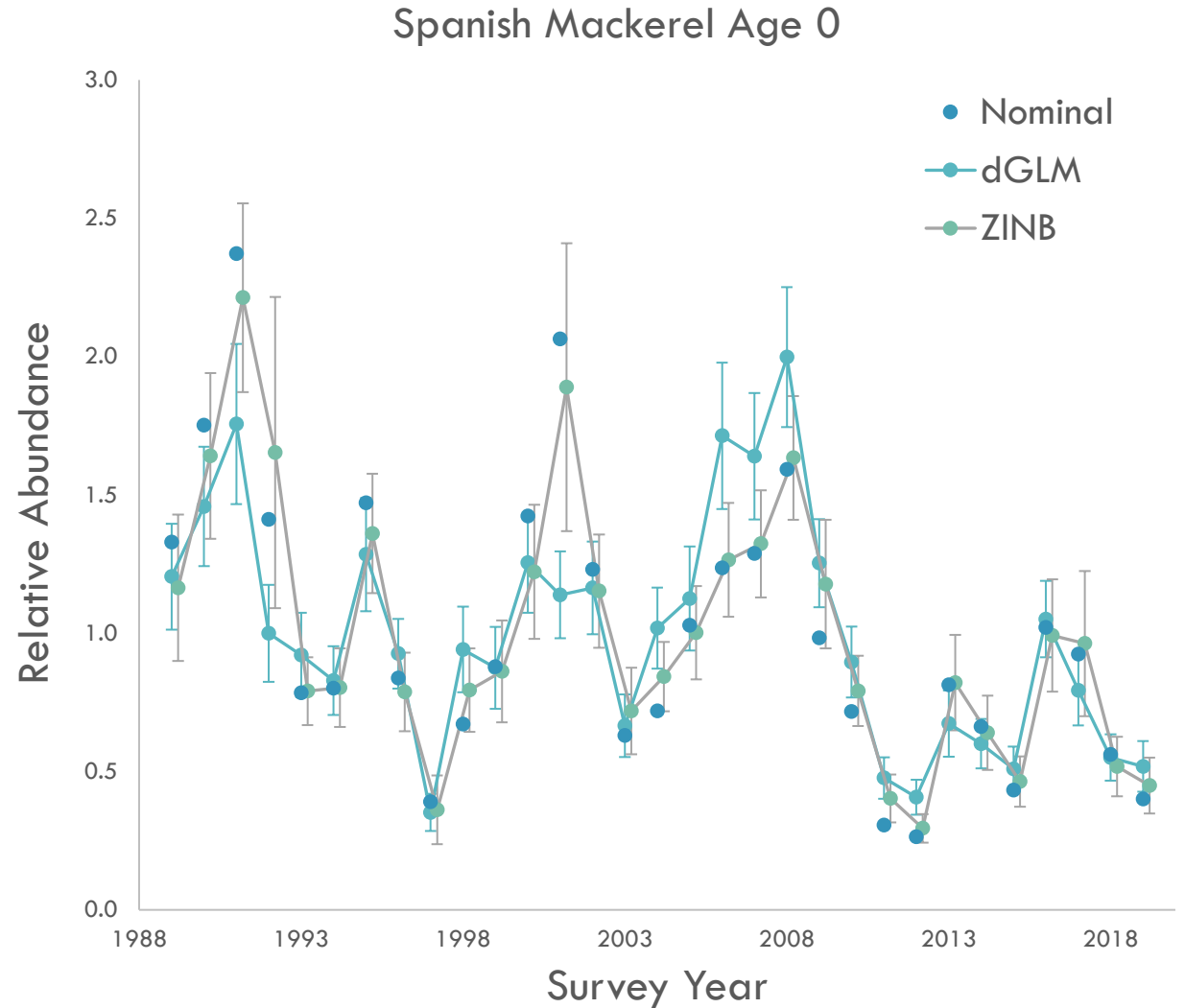
Life History (age, repro, etc.)

New Data System:

Tagging

Sea Turtles

Diet



SEAMAP-SA ONLINE DATABASE

Iteration 1 (Active)

Developed and maintained by SCDNR IT

All funded SEAMAP-SA Surveys

One shared structure

Administrator Interface for data & code
table importation & deletion

User-driven queries by Survey and Data
Type

Metadata on SEAMAP.org

User tracking

The screenshot displays the SEAMAP-SA Online Database query interface. It features several filter sections, each with a dropdown menu and a list of available options. The 'Type of Data' section is currently open, showing a list of data types including 'Event Information', 'Abundance and Biomass', 'Length Frequency', 'Individual Specimen', and 'Tagging Information'. The 'States' section shows a list of states including 'FL', 'GA', and 'NC'. The 'Latitude Range' section shows a list of latitude values including '28.75', '28.76', and '28.77'. The 'Seasons' section is partially visible at the bottom. Each filter section includes a 'no selected option' button and a 'Data Types' link. The interface is designed for user-driven queries, allowing users to select specific data types, states, latitude ranges, and seasons for their queries.

Type of Data:

Choose Data to Download

Choose Data to Download

Event Information

Abundance and Biomass

Length Frequency

Individual Specimen

Tagging Information

no selected option

32 available options

1989

1990

1991

1992

States:

no selected option

4 available options

FL

GA

NC

SC

Latitude Range:

no selected option

428 available options

28.75

28.76

28.77

28.78

Seasons:

no selected option

3 available options

SEAMAP-SA ONLINE DATABASE

Iteration 2 (Under Development)

Developed and maintained by Axiom DS

Hosted within SECOORA Data Portal

All funded SEAMAP-SA Surveys

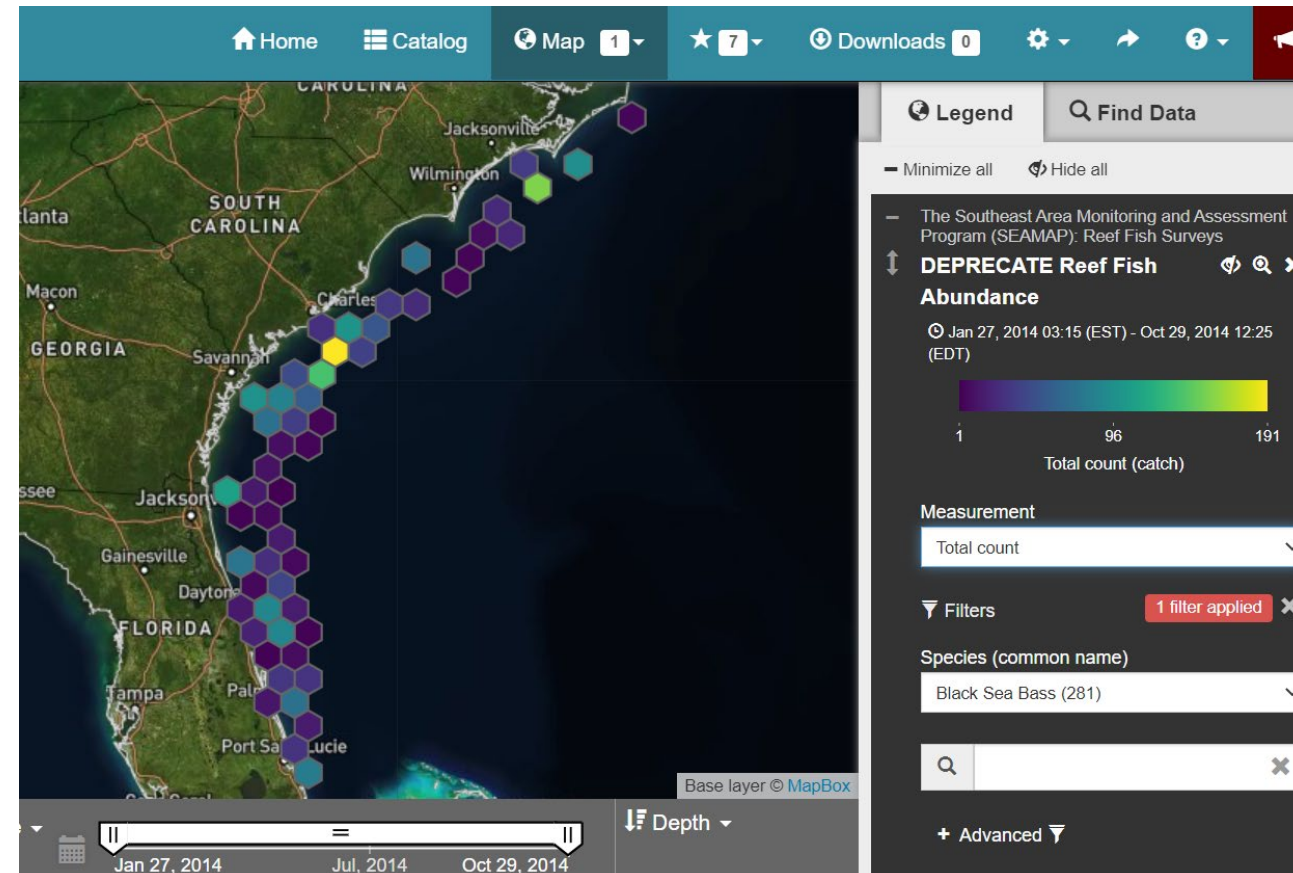
Administrator Interface for data & code
table importation & deletion

User-driven queries by Survey and Data
Type

User-driven data summaries and
comparisons among SEAMAP-SA Surveys
& other SECOORA data

Metadata zipped with data download

User tracking



WHY MIGRATE?

SECOORA mostly physical data

limited biological data

Capabilities:

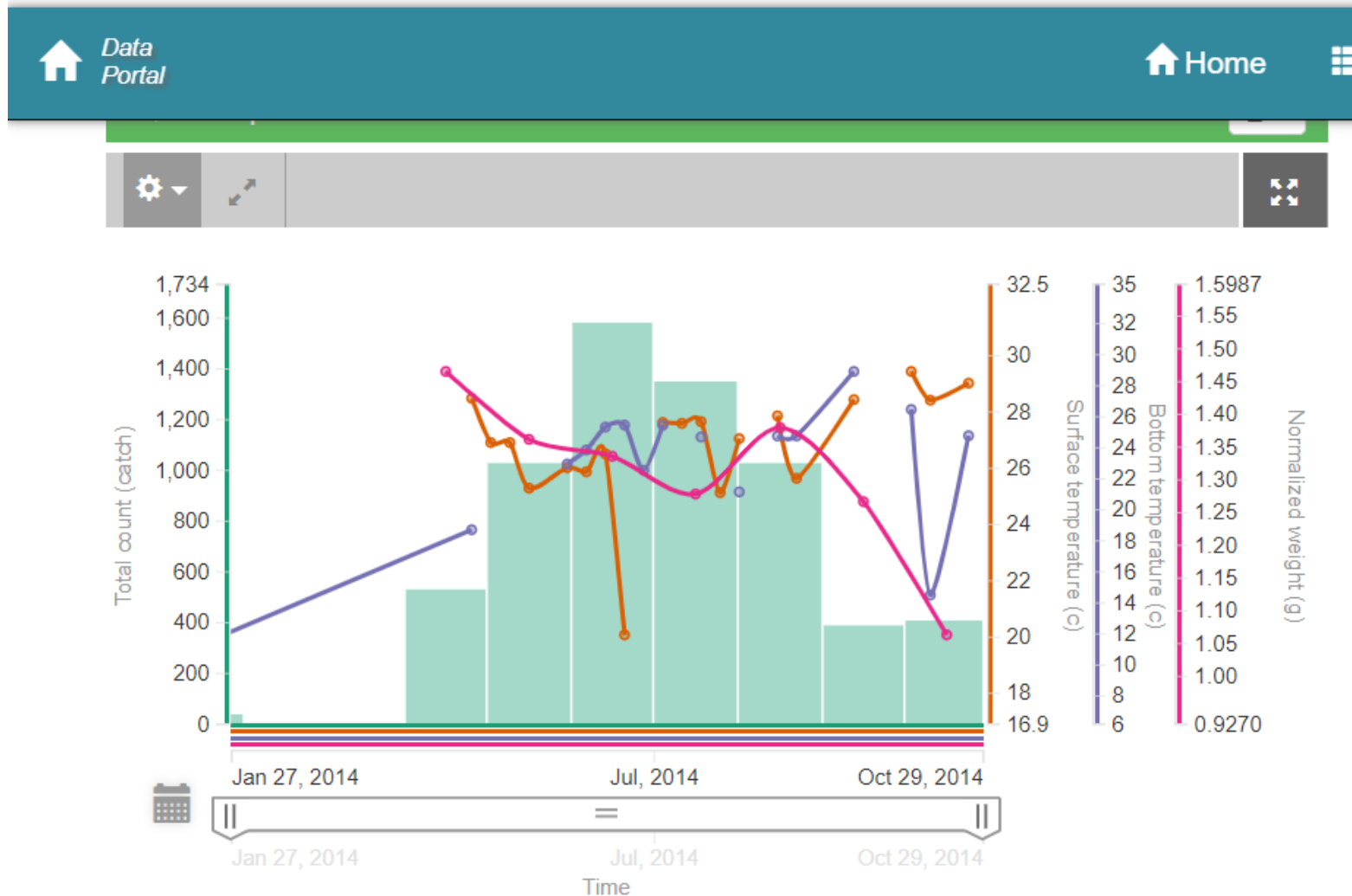
summarization

visualization

mapping

download raw data

cross comparison of data sets



DATA PROCESSING RESPONSIBILITIES

Each survey maintains and provides their data annually (Spring)

- Queries or programs to translate to SEAMAP-SA formats

SCDNR checks format data for online system compatibility

SCDNR uploads and imports into online system

SCDNR deletes and replaces as needed for corrections

Metadata:

Each survey provides updates as needed to SCDNR/ASMFC for website
(or download package in new system)

CHALLENGES

Ownership and Branding

Responsibility for Updates

Programmers in Demand