# 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)
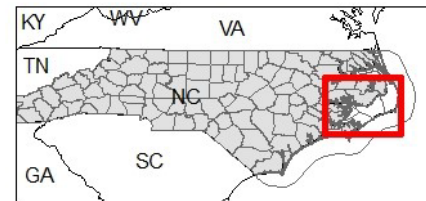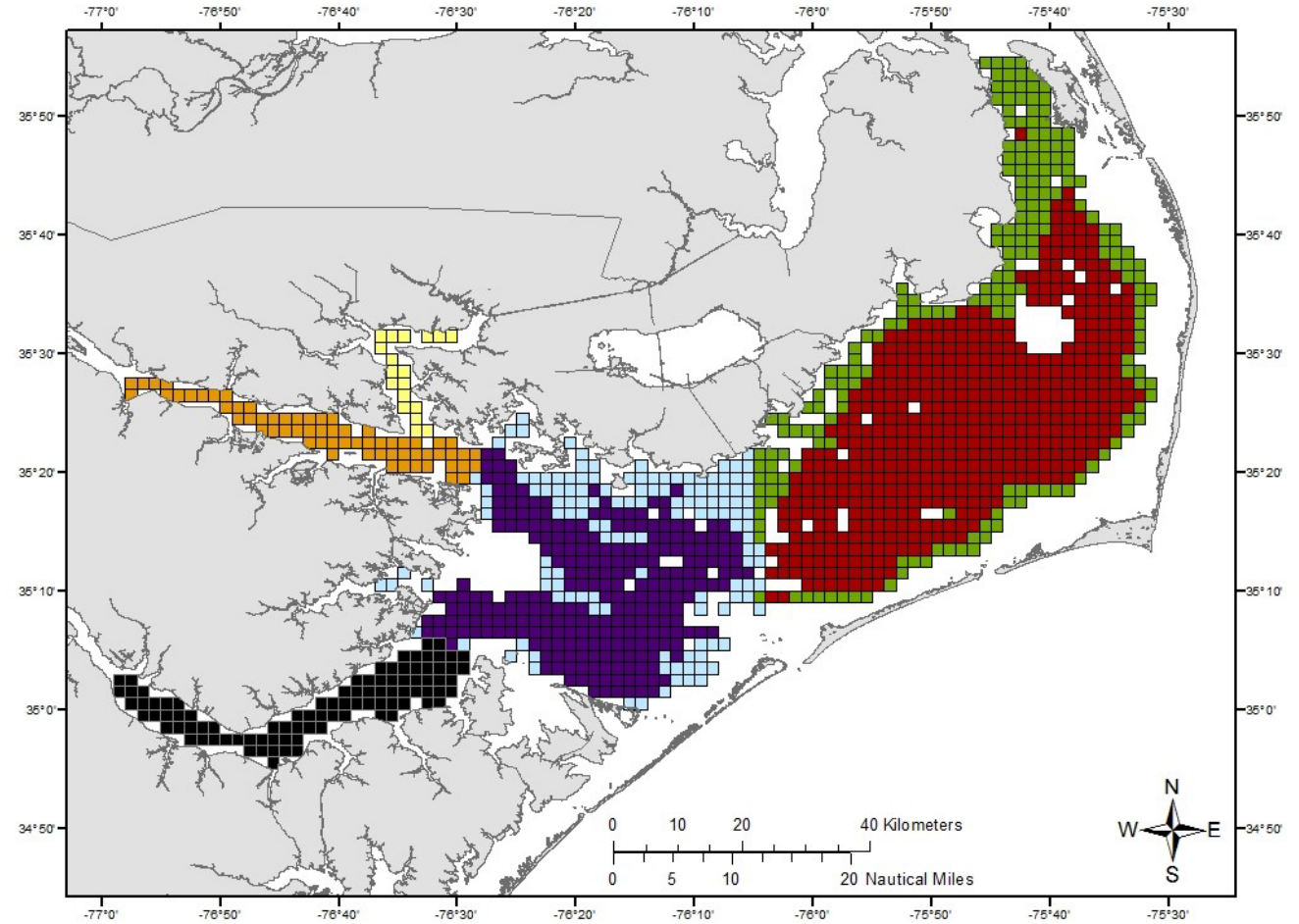


**Pamlico Sound Survey Strata**

- Neuse River (NR)
- Pamlico Sound Deep East (PDE)
- Pamlico Sound Deep West (PDW)
- Pamlico Sound Shallow East (PSE)
- Pamlico Sound Shallow West (PSW)
- Pamlico River (PR)
- Pungo River (PUR)

# TARGETED DATA PRODUCTS

Abundance & Biomass by Species

Multispecies Downloads

Length Frequency

Life History (age, repro, etc.)
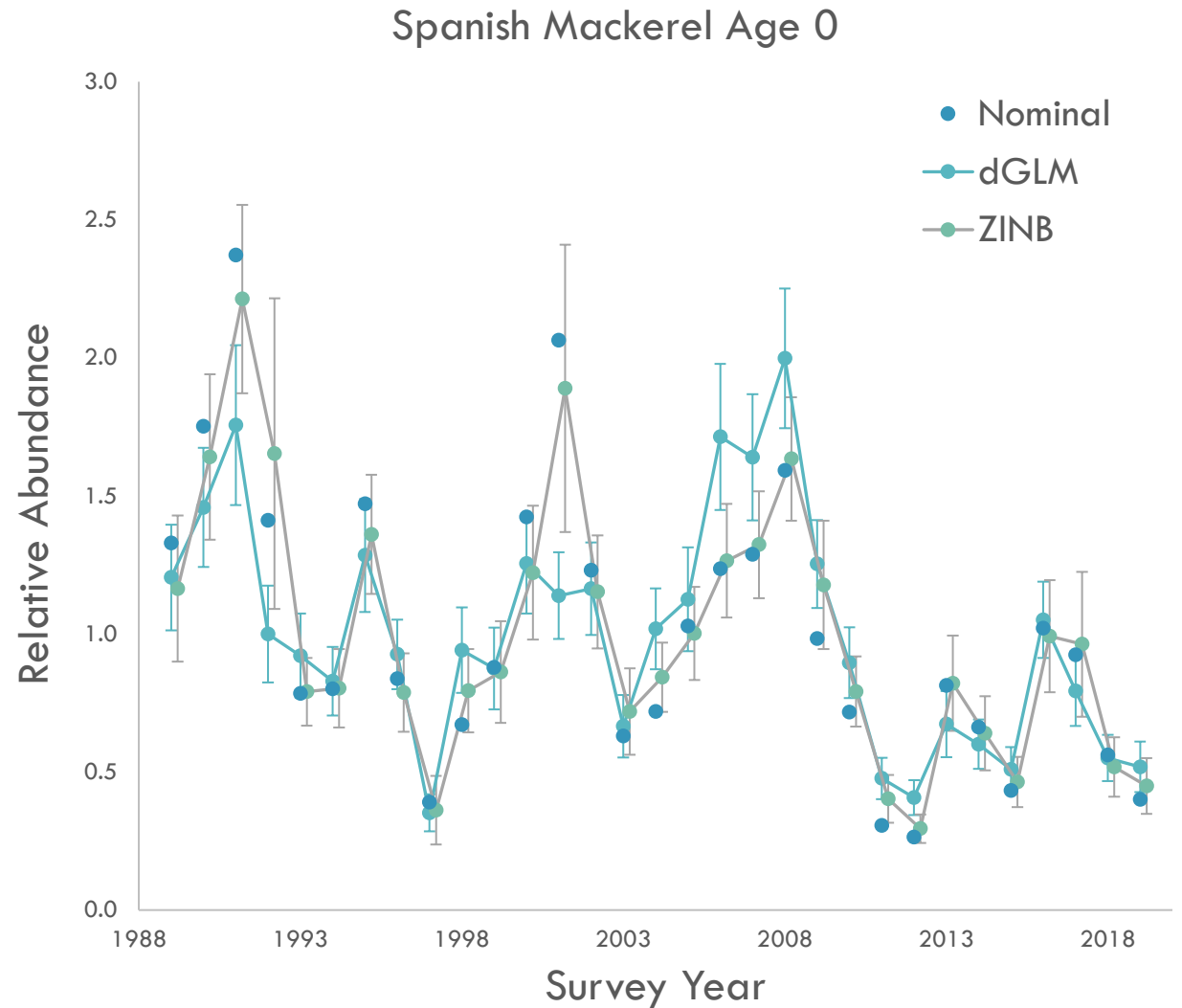
New Data System:

Tagging

Sea Turtles

Diet



Spanish Mackerel Age 0

# 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

# SEAMAP-SA ONLINE DATABASE

Iteration 2 (Under Development)

Developed and maintained by Axiom DS

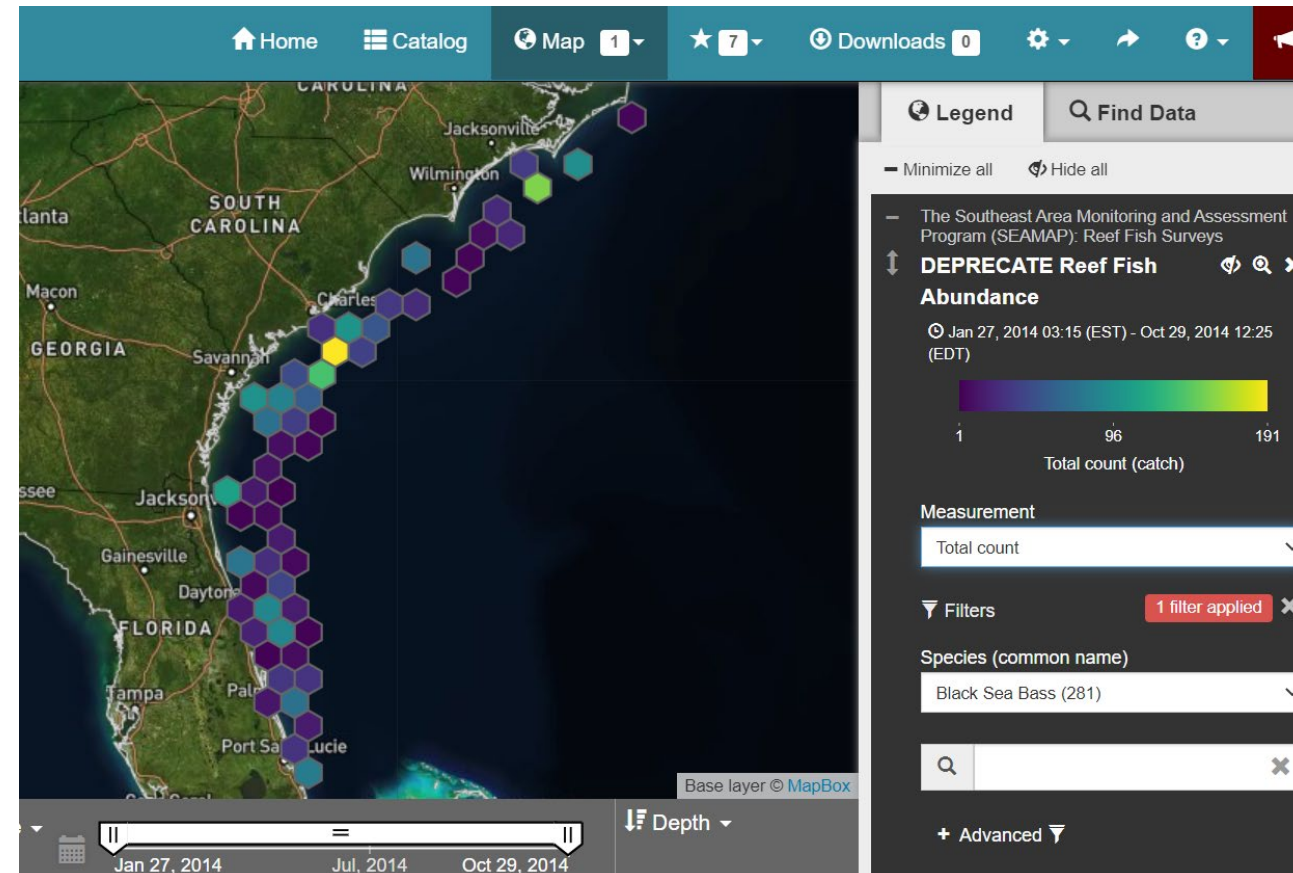Hosted within SECOORA Data Portal

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

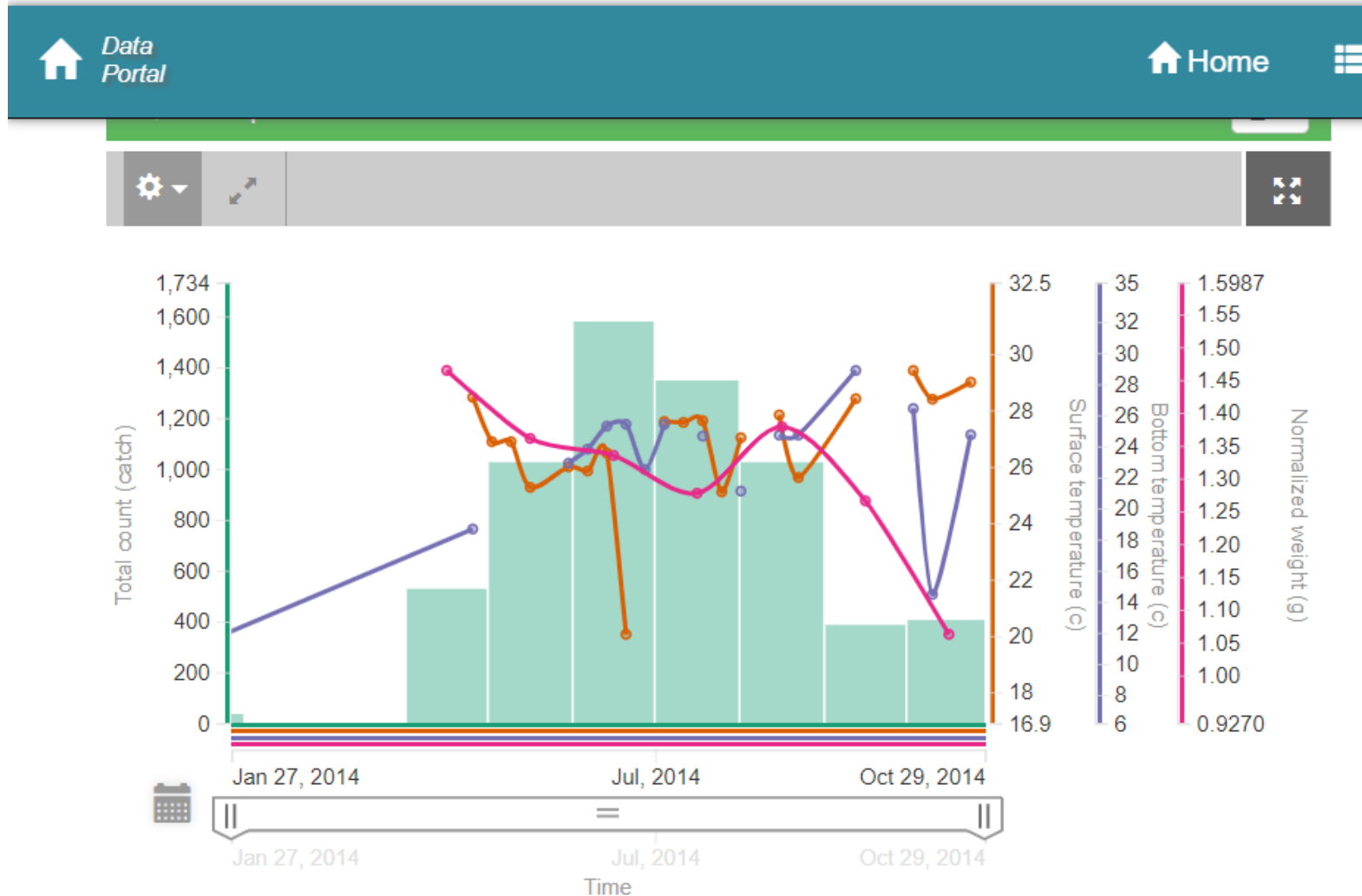limited biological data

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