



DO24C-2540 - Cloud-Based Geospatial Data Applications for Streamlining Natural Resource Management

ID 690
Name SC13.1
Status Closed
Classification Conditionally Appre
Recommended Status Open
Notes

The waters, flats and all tributaries of Bourne's Pond, in the Town of Falmouth, north of a line drawn across from the "N SHELLFISHING" sign at #64 Crowell Road to the "NO SHELLFISHING" sign at the western end of Mary Manuel N extended Rules and Conditions

Closure Rules - Tempora

Rule Result Closure Start Date Closure End Date

alse 5/1 11/30

W. Benjamin Bray MIT Sea Grant

DMF DSGA polygons	
S	

Classification Conditionally Approved

ID 561 Name MHB4.3 Status Closed

Recommended Status Open Notes

The waters and flats of the Coles River, in the Town of Swansea, east of a line drawn from the northwestern point of land outside of Cedar Cove to the eastern edge of the rock wall located at #194 Bluff Ave.

Rules and Conditions	×. 2
Closure Rules - Comparison	D-ra O
Rule Rule	

 Rule
 Start
 End
 Condition
 Comparison
 Closure
 to Re

 Result
 Sensor
 Date
 Date
 Parameter
 Operator
 Amount
 Length
 Open

1 4/30 rainfall >= 0.3	5 days
4/30 rainfall >= 2	0 days
1 Martinez	

Rule Result Closure Start Date Closure End Date

false 5/1 10/31

To query data using this panel... 1. Specify Period (below) 2. Click Parameter

SEAGLASS IS an API-based system for creating custom geospatial data analysis and visualization tools for the web.

It allows you to streamline analysis workflows involving point, track, polygon, and raster data. You can visualize data, analyses you perform, indices you calculate from data, and output from models that utilize data from *Seaglass*.

Seaglass exists for everyone,

MOTIVATION

DMF DSGA polygons

Rules and Conditions

false

Closure Rules - Temporal

ID 823

Name SC14.6

Status Closed

The waters and flats of Eel Pond, in the Town of Falmouth,

south of a line drawn from the eastern end of Bayside Drive to the "NO SHELLFISHING" sign on the opposite shore and west

annewimataly 100" wast of the mouth of the watland continuing

Rule Result Closure Start Date Closure End Date

11/14

Recommended Status Open

Notes

of a line drawn from the "NO SHELLFISHING" sign

Classification Conditionally Approved

- Expressed need by NGOs, private companies and funded researchers for cutting-edge solutions to data management and analysis issues
- Expressed need by local communities for increased access to more datasets

Significantly improve workflows for data retrieval, analysis and scientific dissemination; reduce
staff time required for tasks,
eliminate some tasks, and create
new tools for better utilization of data

GOALS

Enable users to access a greater variety of data types

Provide virtual computing space

PROCESS

CO-OPS Current Prediction

velocity (kn)

Collaborated with staff, funded researchers, outreach professionals, and artists to identify the most effective features

Utilized popular, open-source web technology, and flexible, scalable storage

Ensured cross-platform / crossdevice compatibility and

USERS

Town of Nantucket, MA

Town of Falmouth, MA

Town of Mashpee, MA

Sea Grant-Funded Researchers

MA teachers and students

MA Water Resources Authority

MA Division of Marine Fisheries

NOAA Fisheries

including specialists in water quality and aquaculture, their stakeholders, funded PIs, and artists.

for user-provided code

customizability

• Increase impact of data on

stakeholders through increased access and effective presentation

IN THE BACKGROUND

Seaglass visualization of SST and Argo profiler tracks. Eight panes of 8-day averaged sea surface temperature (SST), derived from satellite measurements throughout 2017, were blended together into a single frame using a thermal color palette. Clouds block satellite measurement of SST and are represented in each pane as transparent. Argo ocean profiler tracks spanning multiple years are shown as grey lines, and are a function of surface and deep ocean currents.

