



OFFICE OF FISH AND WILDLIFE INFORMATION SYSTEMS

MONTHLY REPORT

February 2021
(January 16th, 2020 – February 15th, 2021)

Patrick Woerner, Geographic Information Systems Specialist
Kevin Blythe, Geographic Information Systems Specialist
Michael Davenport, Geographic Information Systems Specialist
Brian Henderson, Geographic Information Systems Specialist
George Miragliuolo, Information Technology Specialist

Temporary/Seasonal Employees: Nick Myers

ADMINISTRATION

- The Office of Fish and Wildlife Information Systems (OIS) has 39 projects in progress and three new project(s) requested through the DFW GIS/IT Project Request Form.
- OIS hired Nick Myers into a part-time GIS Specialist position to assist with various projects.
- Staff submitted an abstract to present two posters at the 76th Annual Northeast Fish & Wildlife Conference in April - one illustrating the NJ Hunting & Trapping Explorer and another focused on Offshore Wind Energy Planning.

GIS DATA DEVELOPMENT

Anadromous Fish Habitat Mapping

- No update.

Wildlife Management Area Boundary Alignment

- Nick Myers, a seasonal employee, has begun scanning original survey maps and remapping WMA parcels.

Landscape Project

- OIS is awaiting updated species occurrence data from ENSP for use in Landscape.

- As time allows, OIS will continue to prep 2015 Land-use/Landcover (LULC) and impervious surface (IS) for the creation of an updated Landscape Project base layer.
- To the extent possible, habitat data is being prepped for species that will be newly mapped in the next version of the Landscape Project due to potential listing/species status changes.

Georeferencing & Digitizing of Historic Shellfisheries Charts and Maps

- Georeferencing of the historic shellfisheries maps has been completed. Digitization of features of the historic charts and maps is underway.

Georeferencing of Historic Subaquatic Vegetation Maps

- Bureau of Shellfisheries is in the process of reviewing georeferenced images prior to completion of a final product.

Shellfish GIS Data Organization and Standardization

- OIS staff have continued to compile, organize, and standardize Bureau of Shellfisheries GIS data. Thus far, a total of 25 feature classes have been completed with one additional feature class in draft form.
- OIS staff have made completed Marine Fisheries Administration GIS data available to MFA staff in geodatabase and shapefile formats via a shared network folder and via OneDrive, for those staff without network access.

Hard Clam (Estuarine) Survey Mapping

- Working with Bureau of Shellfisheries (BSF) staff, OIS staff have investigated and developed a methodology for mapping hard clam densities and other estuarine survey data collected by BSF since 2000. Resultant GIS data for test sites are currently under review by BSF. Once the methodology is approved, it will be applied to all survey sites throughout all survey years.

Wildlife Management Area Planning Tool Development

- OIS continues to compile data on Sparta Mountain Wildlife Management Area relevant for WMA planning purposes.
- OIS is in the process of completing a draft habitat management patch file for Assunpink Wildlife Management Area. A draft schema that will accommodate the combination of data from all three regions will also be included.

GIS ANALYSIS

Summer flounder distribution by size and sex

- No update.

Habitat Change Analysis Project (HCAP)

- No update.

CARTOGRAPHIC PRODUCTION

Artificial Reef Guide Update

- No update; awaiting input from MFA staff.

Tuckahoe Waterfowl Hunting Map

- No update.

Sparta Mountain WMA Maps

- Staff produced eight maps of Sparta Mountain WMA to show species habitat, land use, and natural heritage priority areas.

Evidence map for Law Enforcement

- Staff produced two evidence maps for the Bureau of Law Enforcement

Bear Call Expansion Map for Wildlife Management

- Staff updated an earlier map to show the municipalities that received bear calls through 2020.

WEB MAP/APP PRODUCTION

Great Places to Fish Close to Home

- The Great Places to Fish Close to Home data were finalized along with metadata for publication. The layer and an associated web map application is expected to be published in early April.

Recreational Saltwater Angler Survey

- No update. The final version of the Recreational Saltwater Angler Survey web application has been submitted for approval prior to public release.

Marine Protected Species Reporter Application

- The Marine Protected Wildlife Reporter application has been approved for public release. OIS staff are coordinating with BMF and I&E staff to plan its promotion and draft a new web page for the Division to link to the application.

Support NJ Seafood Story Map Application

- OIS staff added several more businesses which sell seafood that has been landed, grown or harvested in New Jersey to the story map application.

Artificial Reef Web Map Application

- No update; awaiting input from MFA staff.

Deer Vehicle Accident (DVA) Application

- OIS is working in conjunction with Wildlife Management to create an app that will automatically notify appropriate contacts at municipalities when there has been a deer-vehicle accident and a deer carcass needs to be removed.

GIS TECHNICAL GUIDANCE

- OIS staff responded to internal and external inquiries regarding various datasets and applications, including Landscape Project and the Hunting & Trapping Explorer.
- OIS met with an internal working group regarding scanning WMA surveys and mapping/correcting parcels acquired with federal funding.
- OIS staff met with the Bureau of Marine Fisheries' Marine Statistical Analysis Group.
- OIS staff attended a virtual offshore wind energy meeting pertaining to fisheries monitoring for the Atlantic Shores project. OIS staff also attended the monthly DEP Offshore Wind Coordination Team meeting and distributed a map requested by the Marine Fisheries Administration displaying Barnegat Bay shellfish and SAV resources related to proposed cable routes for the Orsted Offshore Wind Project.
- OIS staff continue to support the Bureau of Shellfisheries' collaboration with Rutgers in their project developing a GIS-based tool for spatial planning and management of shellfish aquaculture in New Jersey. During this reporting period, staff provided Rutgers with two geodatabases comprised of 25 feature classes representing shellfish lease areas, lease exclusion areas, shellfish beds, and regulatory demarcations and boundaries.

IT PROCUREMENT

- **IT Procurement Detail:**

Type	IT Products on Order	IT Products Deployed
Computer Hardware		
Laptop	22	
Desktop	0	
Removable Storage Devices	3	
Keyboard/Mouse	6	
Monitors	31	
Printers	0	
USB Monitor Camera	0	
Cellular Devices		
State Cell Phone	11	
Software		
NA		
Special Orders		
Docking Station	22	
Dell Battery	0	
Computer Bags	17	
Trimble AC power supply		
External GNSS Patch Antenna		
Spartan Camera		
Security box Spartan Camera		

- If any employee in Fish and Wildlife needs to utilize GoToWebinar/GoToMeeting to communicate with constituents outside of DEP, George Miragliuolo is the point of contact to set up meetings and webinars.

IT INVENTORY

- If any State IT Equipment (monitors, keyboards, printers, computer workstations, etc.) other than State laptops have been taken home for work purposes staff should notify George Miragliuolo, so that he can properly manage the Inventory.
- The Division's IT inventory continues to be updated. The IT inventory is being revised monthly to update deactivated equipment that was sent to surplus.

IT SUPPORT (non-DEP HelpDesk)

- OIS staff continues to assist Division personnel as needed with OneDrive and Teams during remote work due to COVID-19.