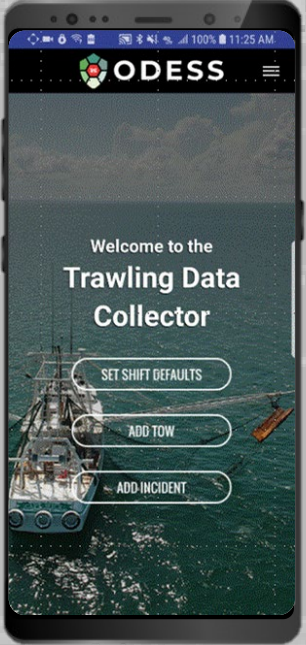
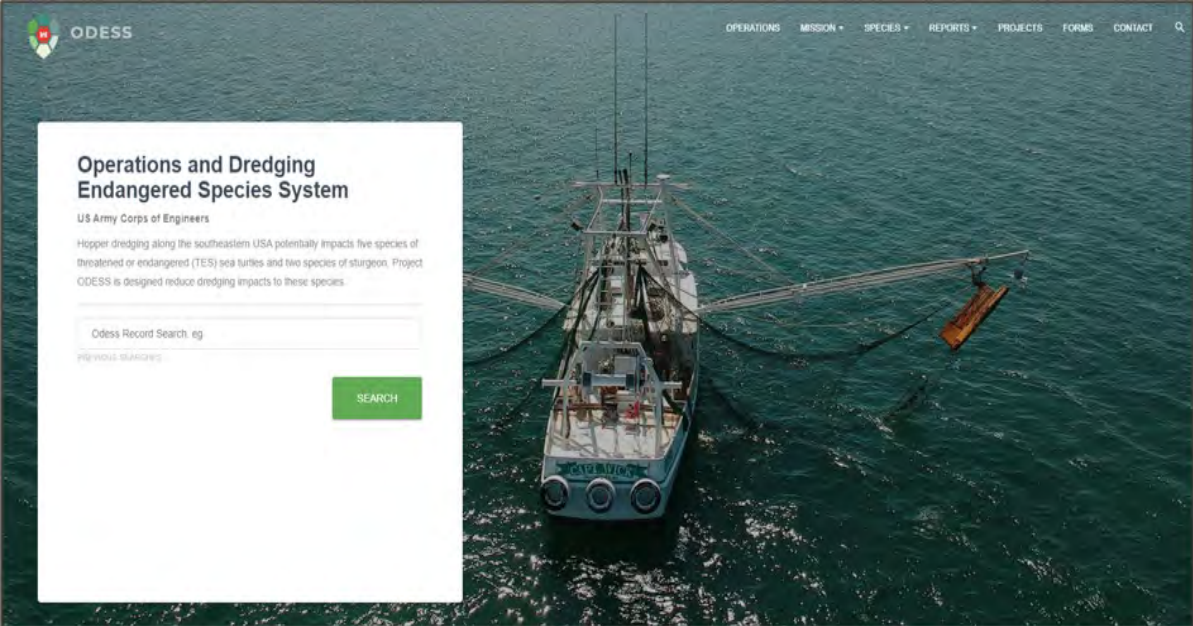


ODESS: THE SUPER KOOL TOOL THAT EVERYONE SHOULD KNOW ABOUT!



US Army Corps of Engineers®



ODESS
OPERATIONS & DREDGING ENDANGERED SPECIES SYSTEM

ENDANGERED MARINE SPECIES



Turtles

Loggerhead



Green



Leatherback



Kemp's Ridley



Hawksbill



Sturgeon

Shortnose



Atlantic



Gulf



Whales

North Atlantic Right Whale



Blue Whale



Sperm Whale



Bryde's Whale



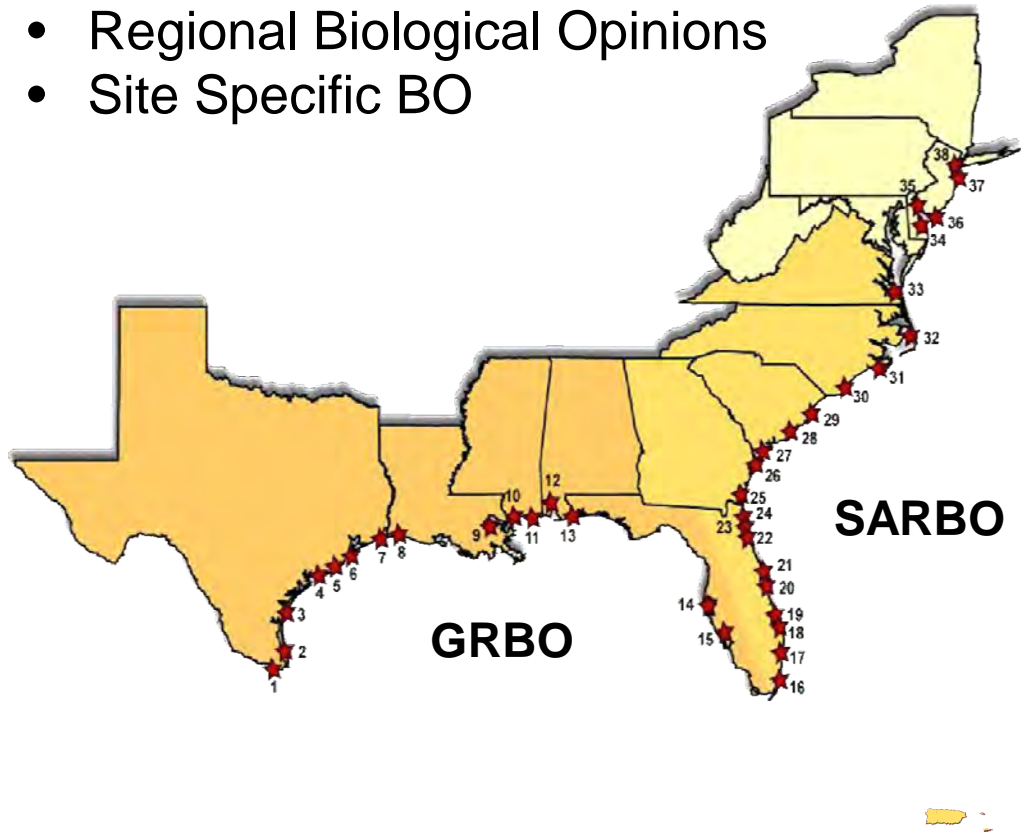
Fin Whale



PROTECTION OVERSIGHT



- Regional Biological Opinions
- Site Specific BO



USACE Sea Turtle Data Warehouse

US Army Corps of Engineers

[Turtle Warehouse Title Image](#)

[U.S. Army Corps of Engineers](#) | [Engineer Research and Development Center](#) | [Environmental Laboratory](#)

Site Information

- [Home](#)
- [Introduction](#)

View Data By

- [Divisions](#)
- [Districts](#)
- [Projects](#)
- [Turtle Species](#)

Cubic Yards

- [Total Cubic Yards](#)
- [Fiscal Year Table](#)
- [Fiscal Year Graph](#)

Turtle Takes

- [Total Turtle Takes](#)
- [Takes Graphs](#)
- [Fiscal Year](#)
- [Calendar Year](#)

Takes with Cubic Yards

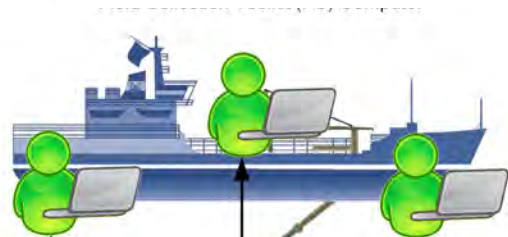
- [Fiscal Year](#)

DATA WORKFLOW AND SUPPORT MODEL



Endangered Species (ES) Data Collection

Dredger-Contracted ESOs Using the Vessel's Data Collection Software System

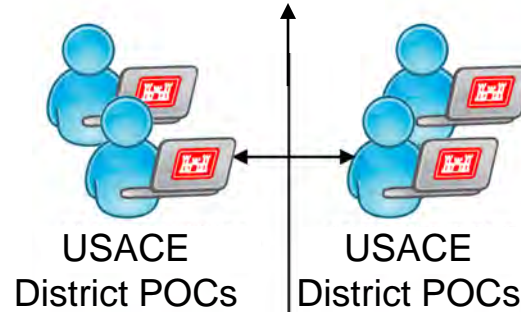


1

USACE District Data QA/QC



ODESS QA/QC Management Site

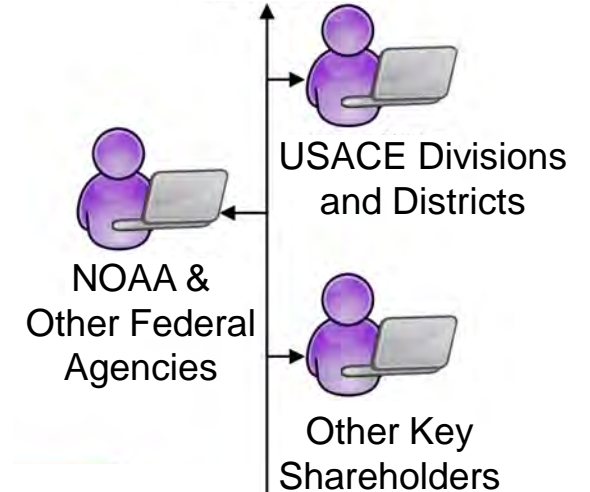


2

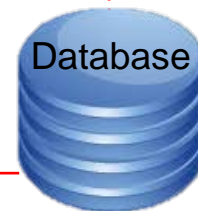
Publicly Accessible Endangered Species Observer (ESO) Data



ODESS Public Website



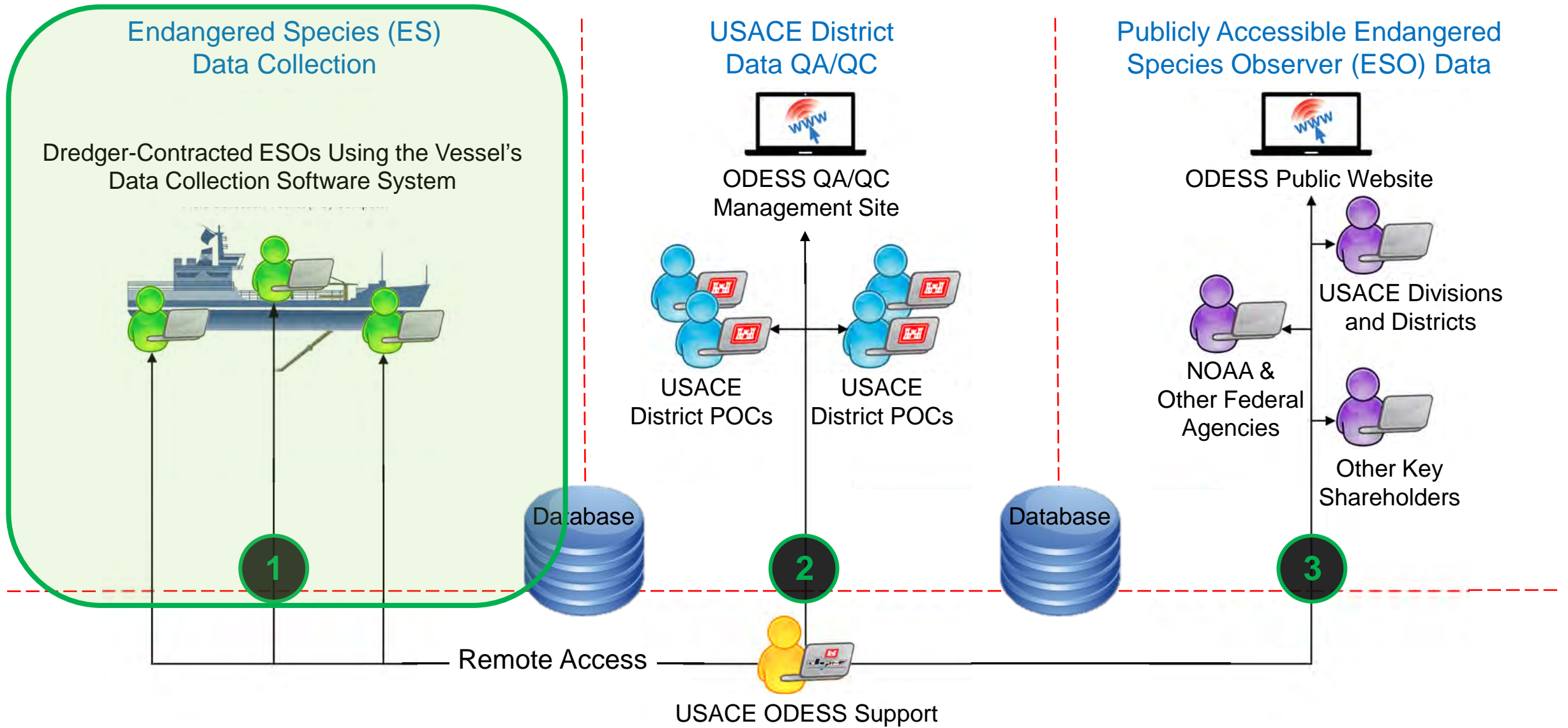
3



Remote Access



DATA WORKFLOW AND SUPPORT MODEL

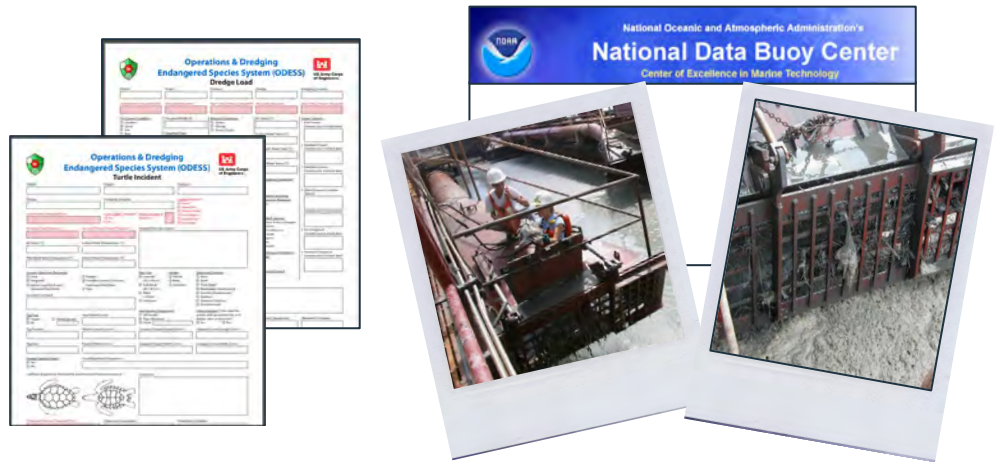
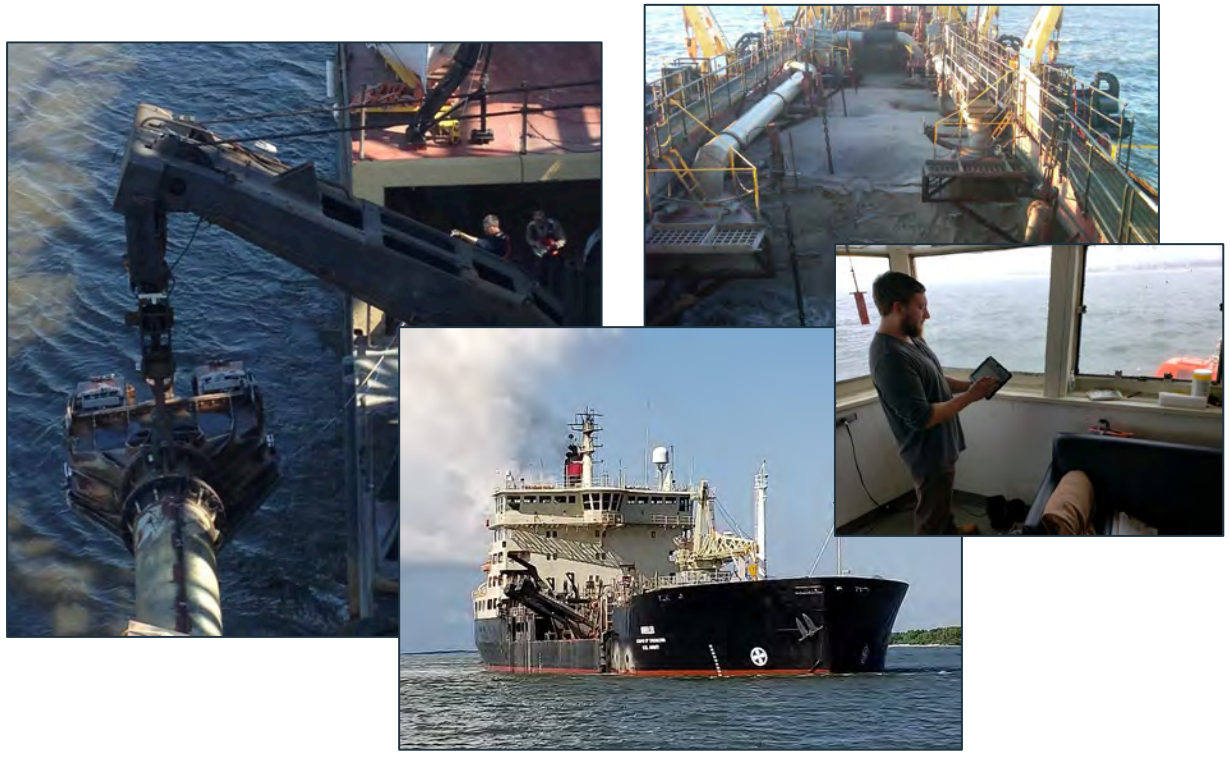


DIGITAL DATA COLLECTION

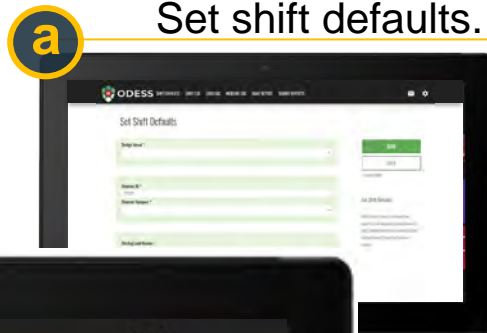


Observers examine the screening of dredge material and digitally enter data for each dredging load:

- Site conditions (e.g., weather & sea conditions)
- Observations and photographs

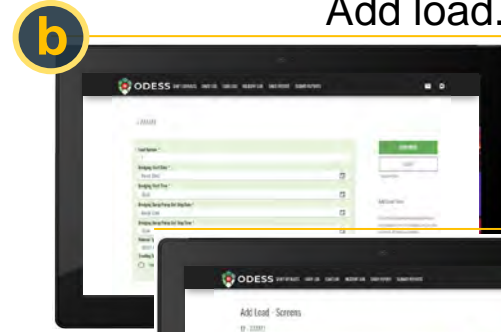


DIGITAL DATA COLLECTION



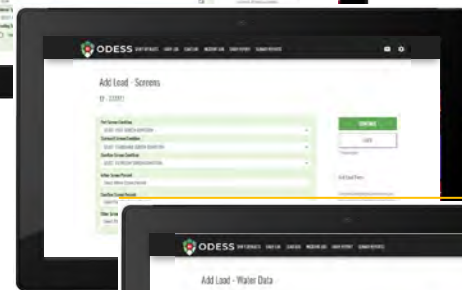
a Set shift defaults.

Dredge name.
Observer ID.
Tide high and low.
Dragheads used.



b Add load.

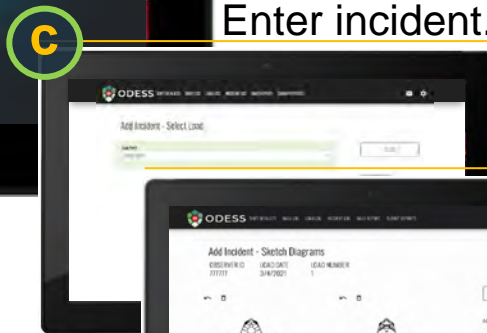
Load number.
Start/Stop date/time.
Material type.



Screens.
Condition.
Inflow %.
Overflow %.

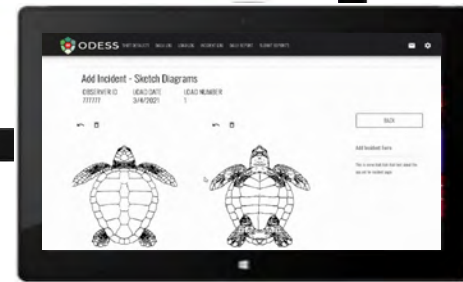


Water.
Tides.
Sea state.
Water depth/temp.

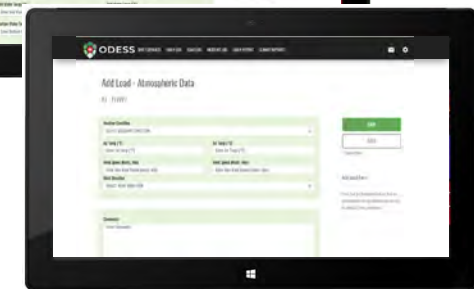


c Enter incident.

Load number.
Incident type.



Diagrams.
Descriptions.
Diagrams.
Photos.



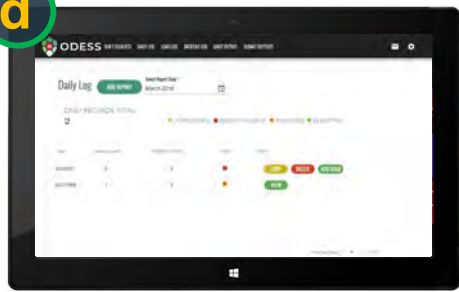
Weather.
Conditions.
Air temp.
Wind spd/dir.

DIGITAL DATA COLLECTION



d

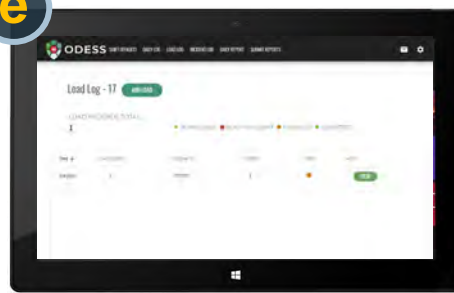
Daily log.



Summary of all daily reports.

e

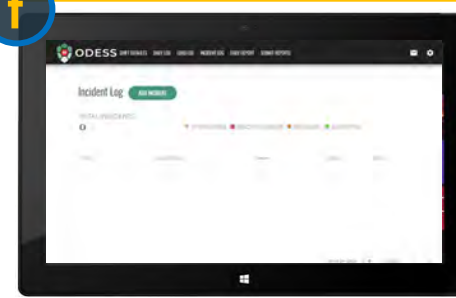
Load log.



List of recorded loads.

f

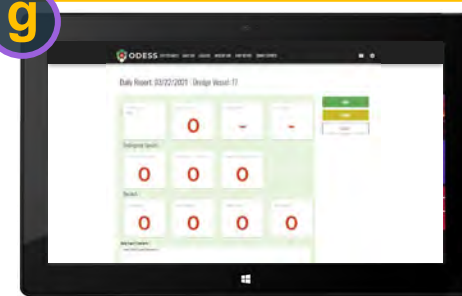
Incident log.



List of recorded incidents.

g

Daily report.

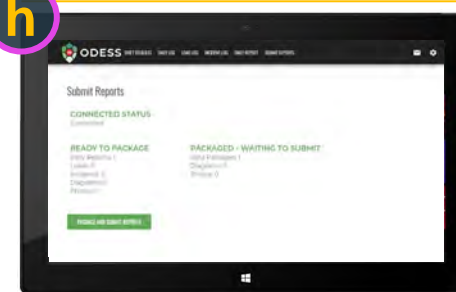


Summary of all records:
TES species
Bycatch



h

Submit reports.

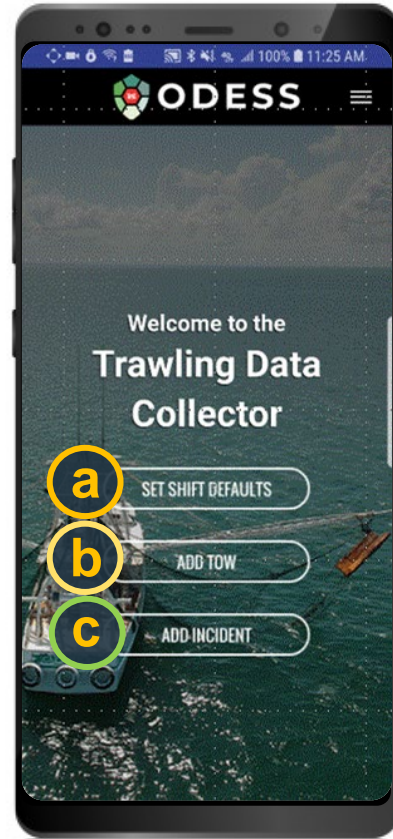


Package and submit data.

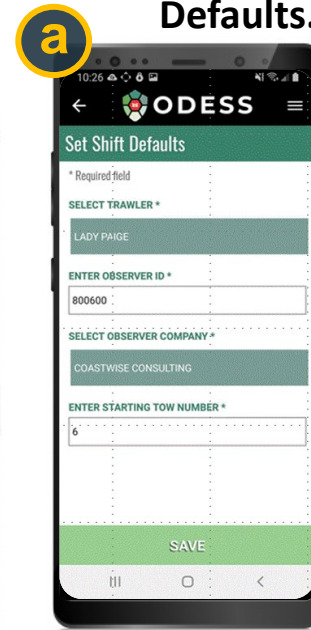
TRAWLING AND RELOCATION



ODESS – TRAWLING APP

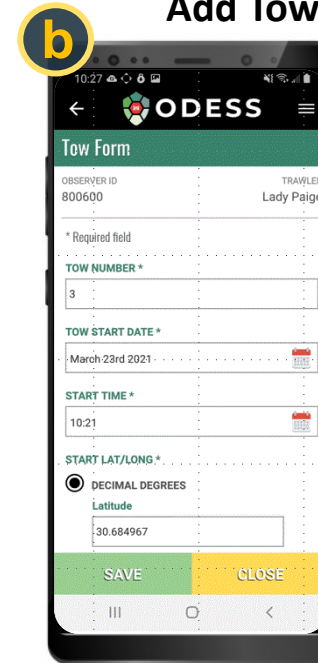


Set Shift Defaults.



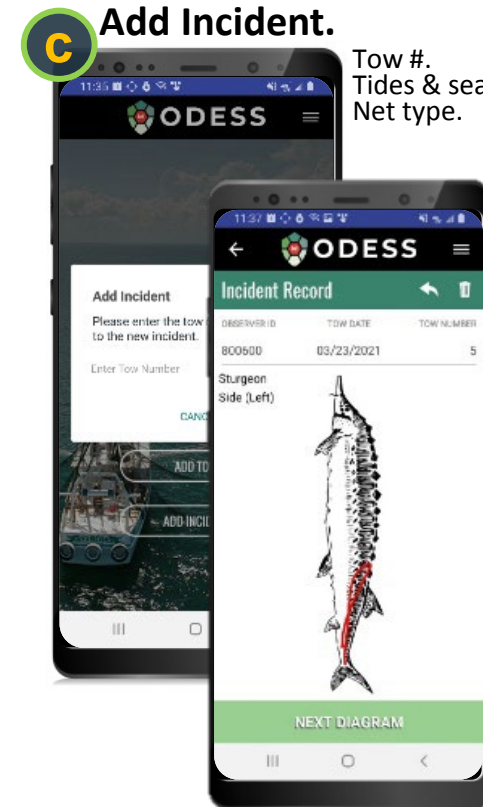
Trawler name.
Observer ID.
Starting tow #.

Add Tow.



Tow #.
Tow timer.
Start/End location.
Observations.

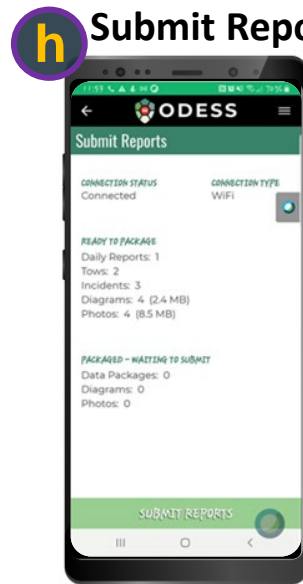
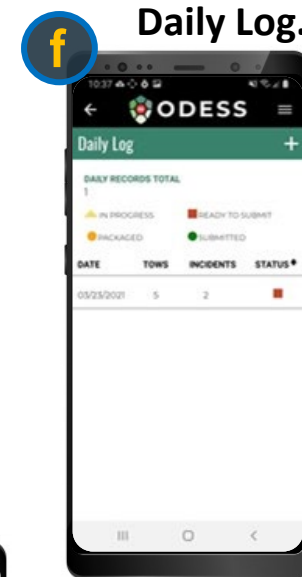
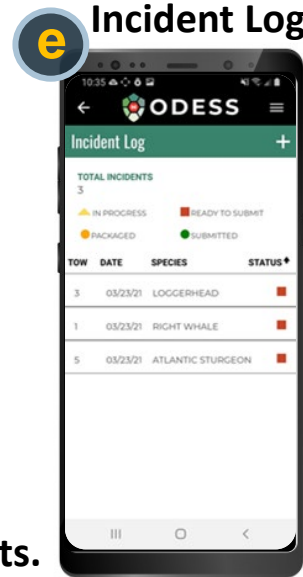
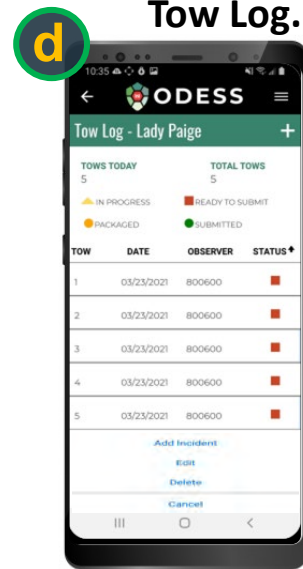
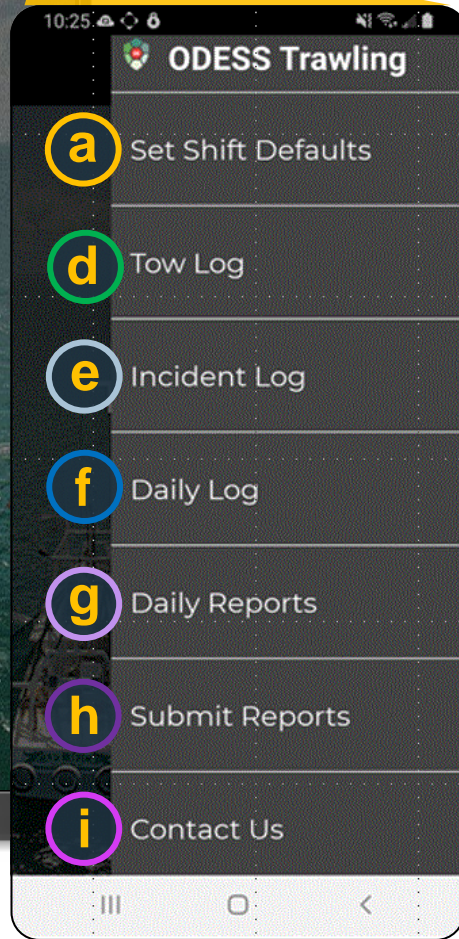
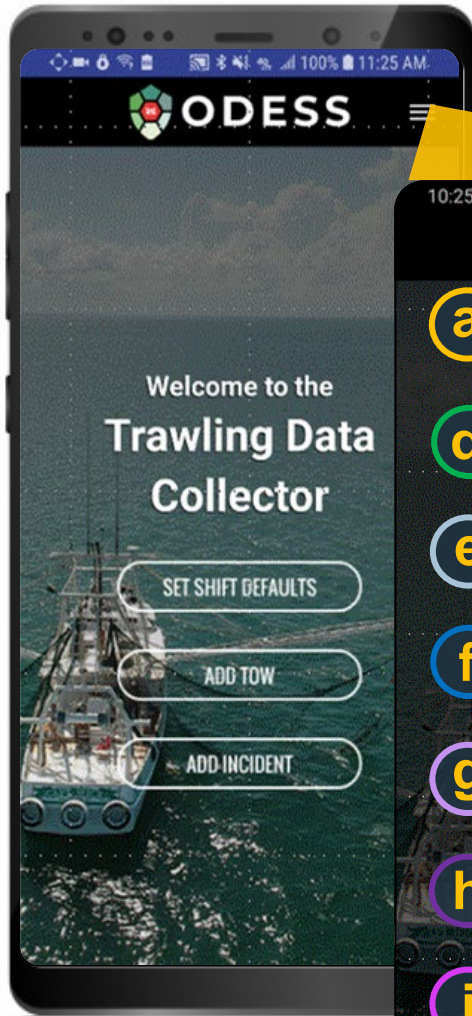
Add Incident.



Tow #.
Tides & sea state.
Net type.

Species type.
Interaction type.
Animal distance
& bearing.
Tag info.
Photos.

ODESS – TRAWLING APP

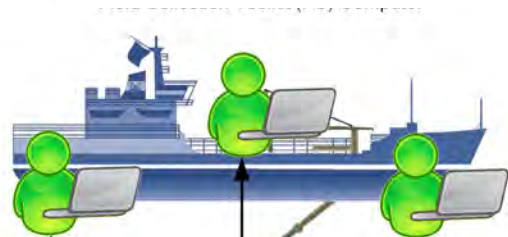


DATA WORKFLOW AND SUPPORT MODEL



Endangered Species (ES) Data Collection

Dredger-Contracted ESOs Using the Vessel's Data Collection Software System



1

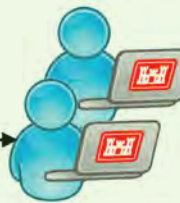
USACE District Data QA/QC



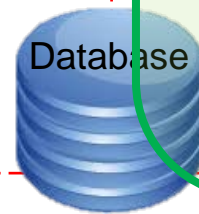
ODESS QA/QC Management Site



USACE District POCs

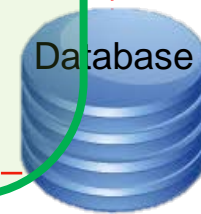


USACE District POCs



Database

2

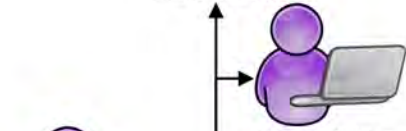


Database

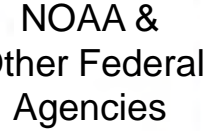
Publicly Accessible Endangered Species Observer (ESO) Data



ODESS Public Website



USACE Divisions and Districts



NOAA & Other Federal Agencies



Other Key Shareholders

3

Remote Access



USACE ODESS Support



The ODESS Intranet Site.

ESO Monitoring data is reviewed by the appropriate District POC.



MANAGE DATA - Project Review

Current Projects for Jacksonville - SAJ

Contract #	Project Start	Project	Contract Agency	Work Maintenance	Project Status
0000-0000-0000	0000-0000-0000	Team of Palm Beach	REGULATORY	MAINTENANCE	EM
0000-0000-0000	0000-0000-0000	Kings Bay Entrance Channel	REGULATORY	MAINTENANCE	EM
0000-0000-0000	0000-0000-0000	North Beach	REGULATORY	MAINTENANCE	EM
0000-0000-0000	0000-0000-0000	North County Comprehensive DNR	REGULATORY	MAINTENANCE	EM

Kings Bay Entrance Channel Project Published Incidents

Number	Change	Necessary Date	Incident Date	URL	Attachments
LODGERHEAD	Dredge Post	03/06/2021	03/06/2021	0000-0000-0000	Copy URL
LODGERHEAD	Dredge Post	03/06/2021	03/06/2021	0000-0000-0000	Copy URL
LODGERHEAD	Dredge Post	03/06/2021	03/06/2021	0000-0000-0000	Copy URL
ATLANTIC BEAR	Dredge Post	03/06/2021	03/06/2021	0000-0000-0000	Copy URL
818470 HOLEY	Dredge Post	03/06/2021	03/06/2021	0000-0000-0000	Copy URL

Edit

Project Edit

Project Description:
Phygas Ocean Park Nourishment Project, estimated CY: 495,000. Placement area extends from 8-119 to 8-125, sand acquired from 200 acre offshore borrow area. Estimated completion date: 4/31/2021.

Biological Optimize:
SARBO

Contract Type:
 CIVIL REGULATORY

Work Type:
 MAINTENANCE NEW WORK BOTH

Region:
SOUTH ATLANTIC (SATL)

Sub Region:
SOUTH ATLANTIC (SA)

Total CY Dredged: Total Hours Dredged: Total Days Dredged:

Attachments

Incident Attachments

FILE	DESCRIPTION	PUBLISHED?
0000-0000-0000	Incident Report 03-04-21.pdf	EM
0000-0000-0000	Incident 03-04-21 (download).jpg	EM
0000-0000-0000	Incident 03-04-21 (download).jpg	EM

At this time, attachments must be added via the ODESS development team. To have a file attached, the date, and species of the incident is also.

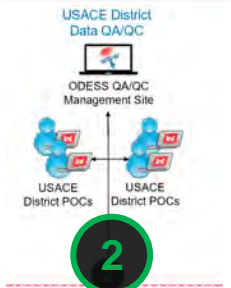
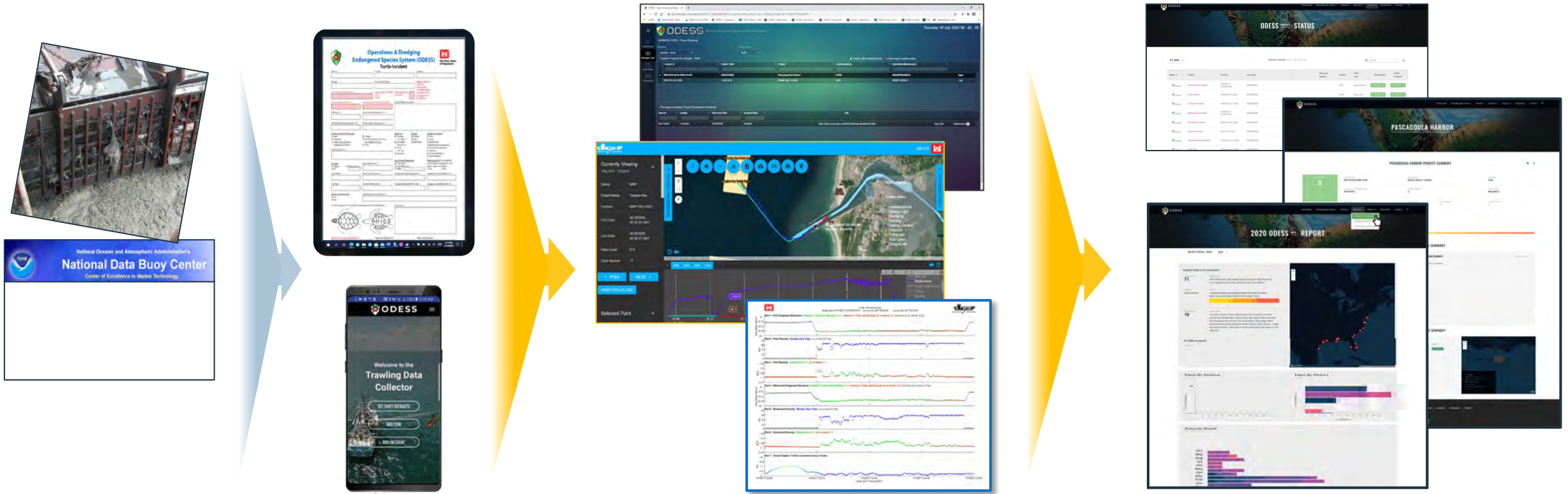
COASTWISE CONSULTING - ODESS
SEA TURTLE INCIDENT FORM

March 11, 2021
Project: Kings Bay Entrance Channel
Contract: H01818P-21-CO-008
Change Category: Open Lines
Location: All Structures within Nourishment
Inventory of Species Substrate: *Canthia arenaria* (negative)

TEAM DQM AND ODESS



Reports support endangered species incident forensics and dredge operations.



ESO Data Collection

USACE Data QA/QC

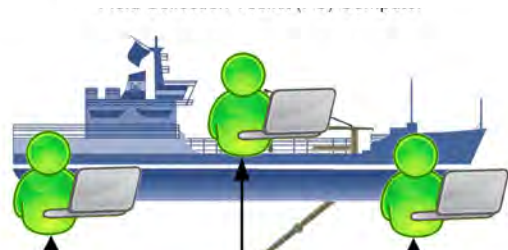
ODESS Public Website

DATA WORKFLOW AND SUPPORT MODEL



Endangered Species (ES) Data Collection

Dredger-Contracted ESOs Using the Vessel's Data Collection Software System



1

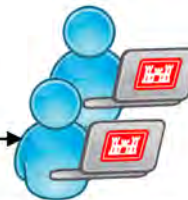
USACE District Data QA/QC



ODESS QA/QC Management Site



USACE District POCs



USACE District POCs

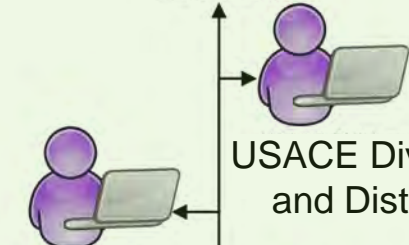


2

Publicly Accessible Endangered Species Observer (ESO) Data

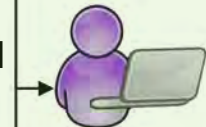


ODESS Public Website

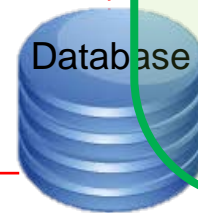


USACE Divisions and Districts

NOAA & Other Federal Agencies



Other Key Shareholders

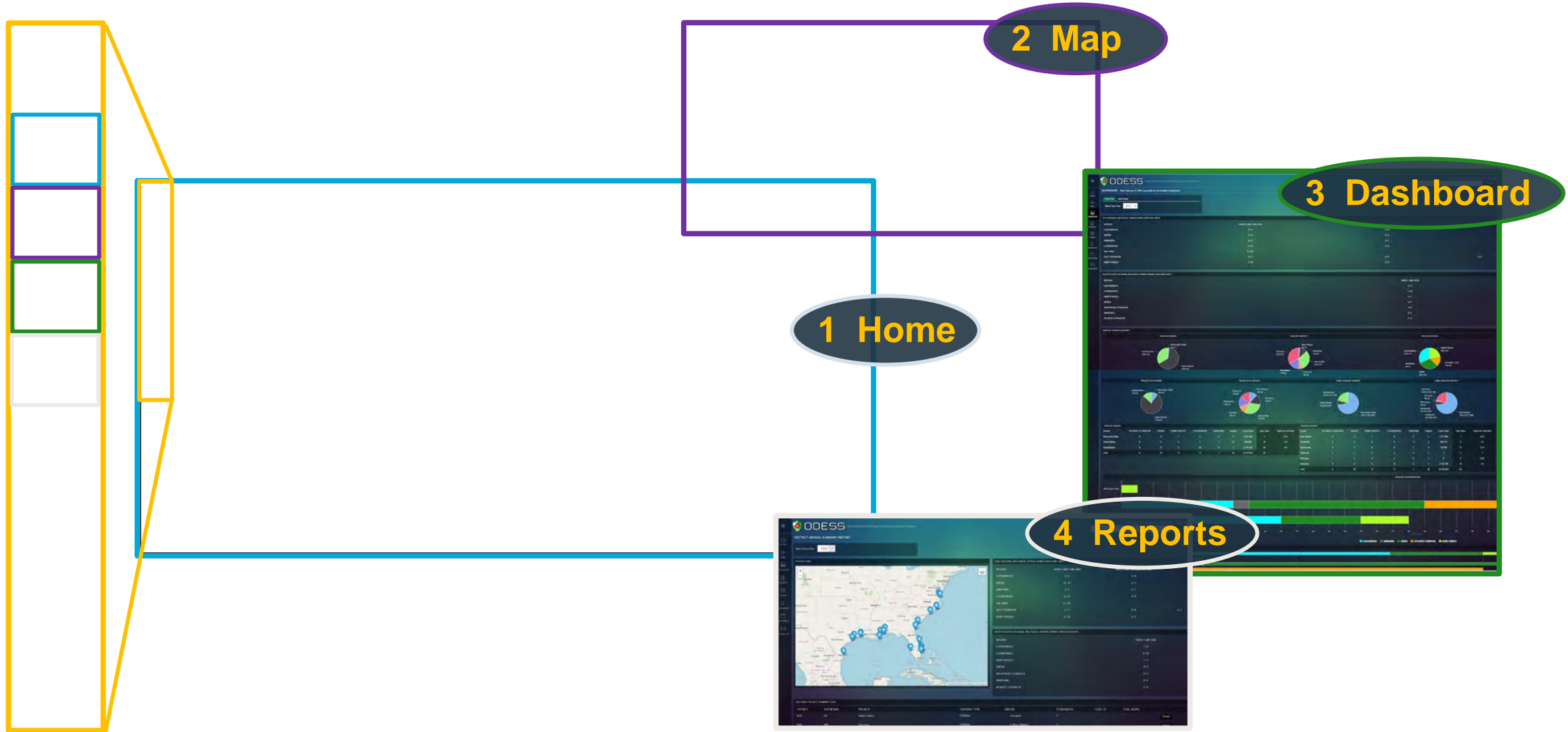


3

Remote Access

USACE ODESS Support

ODESS – V1



ODESS - V2



OPERATIONS

DREDGING AND ODESS

SPECIES

REPORTS

PROJECTS

RESOURCES

CONTACT



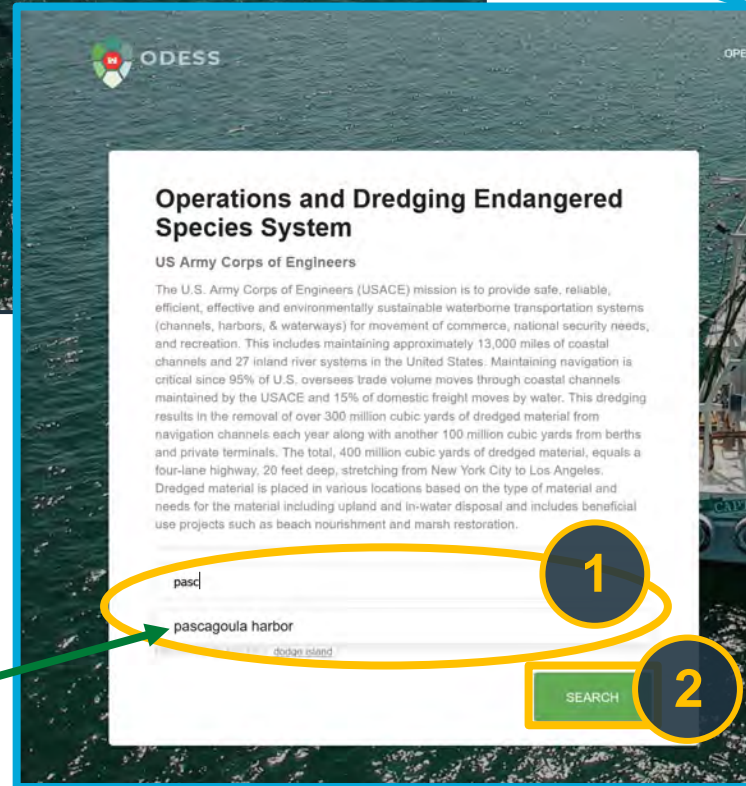
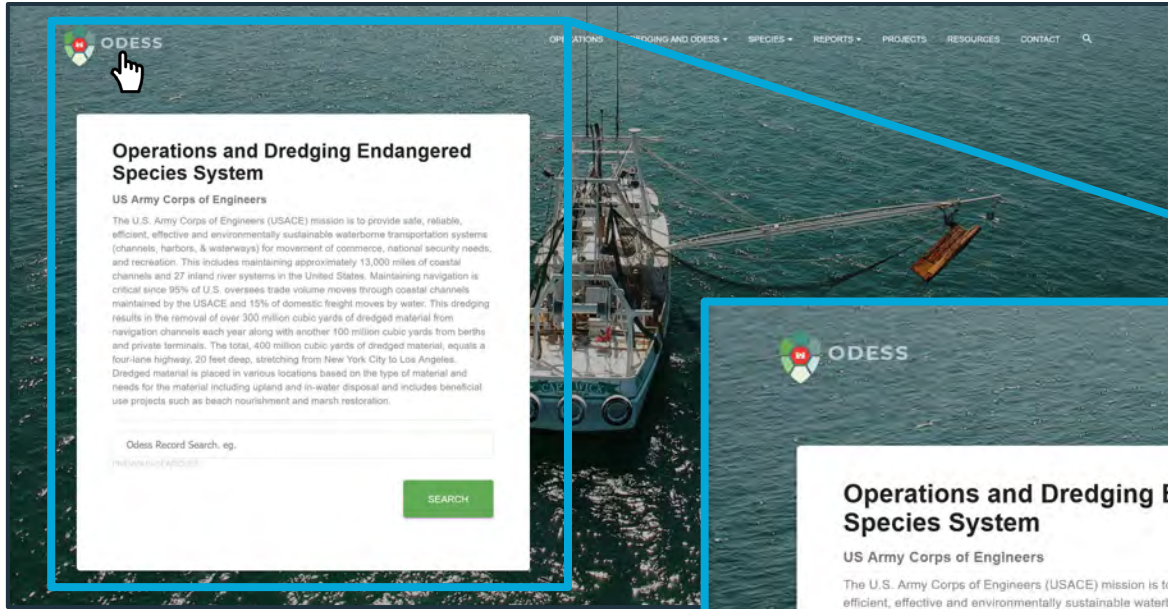
Home Page

Operations

Projects

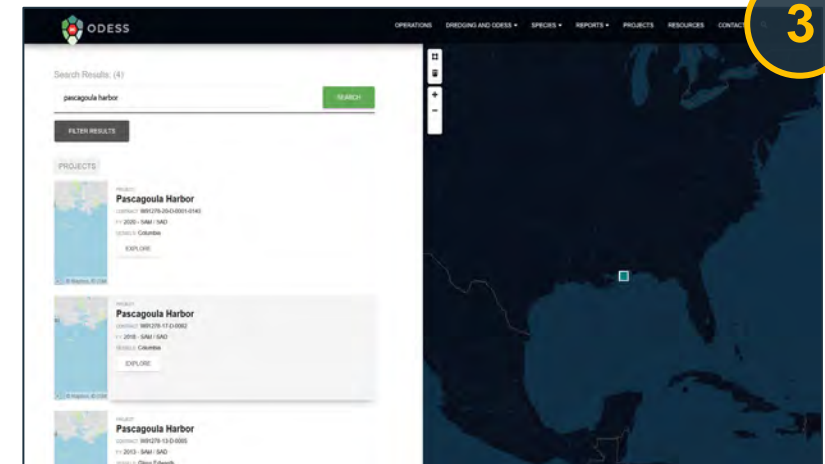
Reports

ODESS – V2: HOME PAGE



Autofill from database

Search Results



ODESS – V2: OPERATIONS



OPERATIONS

DREDGING AND ODESS

SPECIES

REPORTS

PROJECTS

RESOURCES

CONTACT



ACTIVE ODESS OPERATIONS
FY 2020

Biological Operations: SARBO
District/Division: ALL

LOGGERHEAD TURTLE
Project Name: Palm Beach Co SPP - Mid-Town
Plant: B.E. Lindholm
Recovery Date: 04/28/2020
[VIEW PROJECT](#)

LEGEND
PROJECTS
INCIDENTS
CHANNELS
PLACEMENTS
REG BOUND
*All markers are a locations

PALM BEACH CO SPP - MID-TOWN

PALM BEACH CO SPP - MID-TOWN PROJECT SUMMARY

1 TOTAL WORKING	Contract Code: W912EP-19-D-0037-0039	District/Division: Jacksonville District / CESAD	Fiscal Year: 2020
1 TOTAL IN PROGRESS	Project Start (Last Date Received): 03/05/2020 -	Biological Option: 0	Contract Type: Regulatory
	Project Type: Maintenance	Spec Design: --	Spec CY Design: --
	Project Description: Beach nourishment from offshore source.		

1

ODESS – V2: DREDGING AND ODESS



OPERATIONS

DREDGING AND ODESS

SPECIES

REPORTS

PROJECTS

RESOURCES

CONTACT



- Resources
- Dredge Quality Management
- Dredging Techniques
- Trawling
- Glossary
- FAQs

ODESS RESOURCES

Operations & Dredging Endangered Species System (ODESS)

Maintenance of 2D channel and cross-sectional surveys for navigability is essential to national and international trade, job creation, and national security as well as for hydropower, flood protection, municipal water supply, agriculture, irrigation, recreation, and regional development. Tugs, tugboats, barges, hopper, and mechanical dredges are used to maintain navigation depths in these channels and associated waterways.

Reference Websites:

- Endangered Species Act of 1973
- U.S. Fish and Wildlife Service (FWS)
- National Marine Fisheries Service (NMFS)
- National Dredging Quality Management (DQM) Program
- Dredge Fleet Status

Biological Opinions:

- South Atlantic Regional Biological Opinion (SARBO)
 - 2020 SARBO
 - 2007
 - 2005
 - 2003

Protocols:

- Protocol for Collecting Tissue from Dead Turtles for Genetic Analysis
- Southport Forensic Science Center Sea Turtle Research Technology Manual

Stranding Data:

- State Cooperators for Sea Turtle Stranding and Salvage Network

Dredging Quality Management (DQM)

The National Dredging Quality Management (DQM) Program is the USACE's next generation automated dredging monitoring system and analysis tools for the modern USACE dredging manager. The mission of the National DQM Program is to provide the USACE dredging manager with a nationally standardized low cost remote monitoring and documentation system. This system provides the Corps with timely data access, multiple reporting formats, full technical support, including dredge certifications, data quality control, database management, and support for the DQM operating system. On board the dredge, sensors continually monitor dredge activities, operations, and efficiency. Information from these sensors is routed to the National DQM Support Center for data processing, storage and publishing. The DQM web-based tools can be utilized to view project operations, produce disposal plots and data export of dredge operations.

TRAWLING FOR SPECIES

Trawling

Recent dredging along the southeastern United States has been found to result in substantial loss of sea turtles and other trawling bycatch. To reduce the risk of these species the U.S. Army Corps of Engineers (USACE), National Oceanic and Atmospheric Administration (NOAA), and dredging industry worked to develop methods to reduce the density of these animals in the dredge area to reduce the likelihood of take. Identified dredging equipment is used to dredge the area from within 1000 ft of the vessel out of the area, with gears set retention trawling, or to capture and release these species through the use of about net reduction towing. This management technique was originally released in the early 1990s at Cape Fear River, Florida and has continued to be used as a best management practice for dredging in the southeast.

DREDGING TECHNIQUES

Mechanical Dredging

Hydraulic Dredging

Hopper Dredging

ODESS – V2: SPECIES



OPERATIONS

DREDGING AND ODESS

SPECIES

REPORTS

PROJECTS

RESOURCES

CONTACT



SPECIES OF ODESS

- GREEN SEA TURTLE
- HAWKBILL SEA TURTLE
- KEMP'S RIDLEY SEA TURTLE**
- LEATHERBACK SEA TURTLE
- LOGGERHEAD SEA TURTLE
- ATLANTIC STURGEON
- GULF STURGEON
- SHORTNOSE STURGEON
- BLUE WHALE
- SPERM WHALE
- BRYDE'S WHALE
- FIN WHALE

Kemp's Ridley Turtle
STATUS: Endangered

Lepidochelys Kempii

WEIGHT RANGE: 36 - 45 kg (ADULT) SIZE RANGE: 58 - 70 cm (ADULT)

PHYSICAL DESCRIPTION
Kemp's ridley turtles have a disproportionately depressed body with specially adapted flippers (see front limbs, a paddle-like beak, and a flattened head). Their coloration is olive gray with the plastron in yellow/white.

HABITAT
Outside of nesting, the major habitat for Kemp's ridleys is the nearshore and estuarine waters of the northern Gulf of Mexico.

DESCRIPTION
The Kemp's ridley turtle is the smallest and also the most endangered species of sea turtle. Their characteristic features include a disproportionately depressed body with specially adapted flippers (see front limbs, a paddle-like beak, and a flattened head). They mate offshore but nest mainly on a 16-mile beach in Termitas, Mexico, and on Padre Island, Texas. The nesting season for these turtles is from April to August.

ODESS – V2: REPORTS



OPERATIONS DREDGING AND ODESS SPECIES **REPORTS** PROJECTS RESOURCES CONTACT

Reports: ODESS Data Reports

Reports: Biological Opinions

Reports: District Annual Reports

ODESS – V2: PROJECTS



OPERATIONS

DREDGING AND ODESS

SPECIES

REPORTS

PROJECTS

RESOURCES

CONTACT

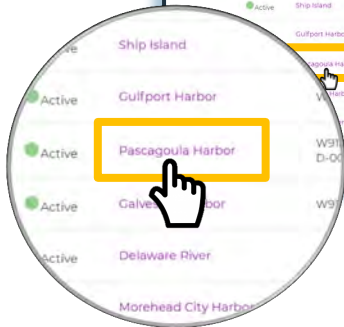


ODESS PROJECT STATUS

FY: 2020

PROJECT STATUS: ACTIVE | COMPLETED

Status	Project	Contract	Start Date	Biological System	District	Work Type	Observations	Left/Incidents
Active	Jacksonville Harbor	W922P-19-D-0028-0143	09/15/2020		SAJ	Maintenance	0	0
Active	Ship Island	W9278-19-C-0029	07/29/2020		SAM	New work	0	0
Active	Gulfport Harbor	W9278-20-C-0005	09/08/2020		MVA	Unknown	0	0
Active	Pascagoula Harbor	W9278-20-D-0001-0140	06/22/2020		SAM	Maintenance	0	0
Active	Galveston Harbor	W9278-19-C-0022	04/15/2020		SWC	Unknown	0	0
Active	Delaware River	NAR-MCF-2020	04/09/2020		NAD	Unknown	0	0
Active	Morehead City Harbor	W9278-20-C-0006	09/28/2020		SAW	Maintenance	0	0



PASCAGOULA HARBOR PROJECT SUMMARY

0

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DREDGING & TRAWLING SUMMARY

INCIDENT & OBSERVATIONS SUMMARY

INCIDENT DETAILS

PROJECT DETAILS

LOAD SUMMARY

ODESS – V2: RESOURCES/CONTACTS



OPERATIONS

DREDGING AND ODESS

SPECIES

REPORTS

PROJECTS

RESOURCES

CONTACT



The screenshot shows the 'ODESS RESOURCES' page. The header features the ODESS logo and a navigation menu with 'RESOURCES' highlighted. The main content area is titled 'Operations & Dredging Endangered Species System (ODESS)' and includes a detailed introduction, reference websites, biological opinions, protocols, and stranding data. A large image of a sea turtle is at the top, and a row of three smaller sea turtle photos is at the bottom.

The screenshot shows the 'Contact Us' page. The header features the ODESS logo and a navigation menu with 'CONTACT' highlighted. The main content area is titled 'Contact Us' and includes the 'Operations & Dredging Endangered Species System (ODESS)' header, a brief description of the system, contact information (odes@usace.army.mil, +1 (877) 640-8024), and a contact form with fields for First Name, Last Name, Email Address, and a Submit button.



THANK YOU!



ODESS

Operations and Dredging Endangered Species System

odess@usace.army.mil

877-840-8024

<https://dqm.usace.army.mil/odess>