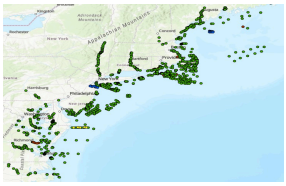
Acoustic Telemetry Receivers

Type File Geodatabase Feature Class



Tags RWSC, Acoustic Telemetry, Fish, Receivers, ACT, FACT

Summary

This dataset displays acoustic telemetry receivers submitted to RWSC, the FACT Network, and the ACT (Atlantic Cooperative Telemetry) Network.

For the RWSC data - these data are submitted by project staff for inclusion on the Research Planning Map. This dataset is made up of receivers from many different projects. Projects can be submitted as active, proposed, planned, or completed.

For the FACT Network - these data are submitted to, and maintained by, the FACT Network. These span multiple projects in multiple locations along the Southeast Atlantic Coast and associated waterways. Members must provide the FACT Network with explicit permission to share their receiver locations and metadata with the RWSC for inclusion on the map. This is done so via filling out a Google Form that is co-owned by the FACT Network and the RWSC.

For the ACT Network - these data are submitted to, and maintained, by the Atlantic Cooperative Telemetry Network (ACT). These span multiple projects in multiple locations along the U.S mid-Atlantic and Northeast Coast and associated waterways. Projects are either public facing, or have given ACT explicit permission to share their receiver locations and metadata with the RWSC for inclusion on the map. This is done via email to (east.coast.telemetry@gmail.com).

Description

Acoustic telemetry has revealed a great deal about species movement that informs fisheries management. In the U.S. this method is increasingly being used as a cost-effective way to gather data on species from rivers to oceans. Displaying receiver locations on a research planning map can benefit stakeholders from every sector and allow for the informed planning of asset placement that leverages the existing network coverage. A few benefits include: reducing the inadvertent expensive duplication of receiver coverage, conducting better science as more and better-placed receivers lead to higher potential statistical power and certainty in results, and providing more context for decision makers. While the Research Planning map is not designed to serve as a navigational safety tool, it can also increase awareness of receiver presence by other ocean users, which can reduce conflict and increase longevity of deployments. While acoustic Telemetry is definitely a data collection method used for Offshore wind research and monitoring, this method has been around for decades to study animal movement and behavior and is widely used for other purposes.

https://rwscorg.sharepoint.com/sites/ProtectedFishSpecies/Shared%20Documents/Forms/AllItems.aspx?id=%2Fsites%2FProtectedFishSpecies%2FShared%20Documents%2FInternal%20Files%20%2D%20Protected%20Fish%20Species%20Subcommittee%2FACT%2FAT%20%2D%20one%20pager%20v3%2Epdf&parent=%2Fsites%2FProtectedFishSpecies%2FShared%20Documents%2FInternal%20Files%20%2D%20Protected%20Fish%20Species%20Subcommittee%2FACT&p=true&ga=1

“The FACT Network partners collectively track tagged animals and share the data network-wide. Members in the FACT Network use an online system that matches detections to tags across the FACT, ACT-MATOS, Migramar, ATAP and OTN Networks. All efforts are made to identify tag owners, even if they are outside the networks. The FACT Network expands the scale and cost effectiveness of behavioral studies through partnerships and data sharing, encourages new projects and student involvement, and communicates findings to policy makers and the public in the U.S. Southeast.” Upon joining the Network, users must sign a User Agreement, which outlines network practices and requirements of membership.

https://secoora.org/fact/

“The ACT Network houses an interoperable database, which is an Ocean Tracking Network (OTN)-compatible node, called the ACT_MATOS node, which facilitates interconnectivity between other OTN-compatible nodes, such as the FACT Network node and the OTN node. Acoustic telemetry researchers use the MATOS data portal to submit data to the ACT database. The ACT database is a secure way to QA/QC and store acoustic telemetry data, and it facilitates detection cross-matching between tag and array owners among all OTN-compatible nodes. MATOS streamlines acoustic telemetry data management and sharing, enhances collaboration, and facilitates critical research and monitoring providing information on animal movement in the U.S. mid-Atlantic and Northeast.” Upon joining the Network, users must sign a User Agreement, which outlines network practices and requirements of membership.

https://theactnetwork.com/

Credits

RWSC Protected Fish Subcommittee: Jordan Katz, jordan.katz@noaa.gov, ACT-MATOS: Kim Richie, east.coast.telemetry@gmail.com, FACT Network: Joy Young, Data@theFACTNetwork.org

Use limitations

These data will be used by RWSC and its expert Subcommittees, partners, and other participants to implement the Science Plan, including to understand the extent of ongoing and planned data collection activities, and to coordinate and plan future data collection and research activities with respect to offshore wind. The data will be displayed via online mapping platforms.

Extent

West	-93.056210	East	-66.937750
North	44.782380	South	24.575890

Scale Range

Maximum (zoomed in)	1:5,000
Minimum (zoomed out)	1:150,000,000

Topics and Keywords ►

Themes or categories of the resource Oceans

Content type ⇔ Downloadable Data

Export to FGDC CSDGM XML format as Resource Description No

Citation ►

Title Acoustic Telemetry Receivers
Creation date 2025-03-03 00:00:00
Publication date 2025-04-04 00:00:00

Presentation formats ⇔digital map

Other citation details
FACT Network Citation:
Joy Young (Executive Director) - FWCC/FWRI

ACT Network:
Kim Richie (Research Technician and ACT_MATOS Database Manager) - Smithsonian Environmental Research Center and Atlantic Cooperative Telemetry Network

Citation Contacts ►

Responsible party - originator
Individual's name Jordan Katz
Organization's name Regional Wildlife Science Collaborative

Contact information ►
Phone
Voice NA
Address
Type postal
Delivery point NA
City NA
Administrative area NA
Postal code NA
e-mail address "The ACT Network houses an interoperable database, which is an Ocean Tracking Network (OTN)-compatible node, called the ACT_MATOS node, which facilitates interconnectivity between other OTN-compatible nodes, such as the FACT Network node and the OTN node. Acoustic telemetry researchers use the MATOS data portal to submit data to the ACT database. The ACT database is a secure way to QA/QC and store acoustic telemetry data, and it facilitates detection cross-matching between tag and array owners among all OTN-compatible nodes. MATOS streamlines acoustic telemetry data management and sharing, enhances collaboration, and facilitates critical research and monitoring providing information on animal movement in the U.S. mid-Atlantic and Northeast." Upon joining the Network, users must sign a User Agreement, which outlines network practices and requirements of membership.

Resource Details ►

Dataset languages ⇔English (UNITED STATES)
Dataset character set utf8 - 8 bit UCS Transfer Format

Status on-going
Spatial representation type ⇔vector

Processing environment ⇔Microsoft Windows 10 Version 10.0 (Build 26100) ; Esri ArcGIS 13.4.0.55405

Credits
RWSC Protected Fish Subcommittee: Jordan Katz, jordan.katz@noaa.gov, ACT-MATOS: Kim Richie, east.coast.telemetry@gmail.com, FACT Network: Joy Young, Data@theFACTNetwork.org

ArcGIS item properties
Name ⇔Acoustic_Telemetry_Receivers
Location ⇔Server=rwsc-db-pg15.env.duke.edu; Service=sde:postgresql: rwsc-db-pg15.env.duke.edu; Database=rpt; User=rpt; Version=sde.DEFAULT
Access protocol ⇔ArcSDE Connection

Extents ►

Extent
Description
The temporal extent covers the current project deployment/start date.

Geographic extent
Bounding rectangle
Extent type
Extent used for searching
West longitude -93.056210
East longitude -66.937750
North latitude 44.782380
South latitude 24.575890
Extent contains the resource Yes

Temporal extent
Beginning date 2009-01-01 00:00:00
Ending date 2025-03-31 00:00:00

Resource Points of Contact ►

Point of contact - originator
Individual's name Jordan Katz
Organization's name Regional Wildlife Science Collaborative

Contact information ►
Phone
Voice NA
Address
Type postal
Delivery point NA
City NA
Administrative area NA
Postal code NA
e-mail address "The ACT Network houses an interoperable database, which is an Ocean Tracking Network (OTN)-compatible node, called the ACT_MATOS node, which facilitates interconnectivity between other OTN-compatible nodes, such as the FACT Network node and the OTN node. Acoustic telemetry researchers use the MATOS data portal to submit data to the ACT database. The ACT database is a secure way to QA/QC and store acoustic telemetry data, and it facilitates detection cross-matching between tag and array owners among all OTN-compatible nodes. MATOS streamlines acoustic telemetry data management and sharing, enhances collaboration, and facilitates critical research and monitoring providing information on animal movement in the U.S. mid-Atlantic and Northeast." Upon joining the Network, users must sign a User Agreement, which outlines network practices and requirements of membership.

Resource Maintenance ►

Resource maintenance
Update frequency as needed

Other maintenance requirements
The FACT Network will send the RWSC a new file following each OTN/FACT Network Data Push. This happens three times per year, or every four months. Follow ups with individual researchers is required for information from new projects that is not collected by ACT_MATOS. ACT_MATOS will send the RWSC a new file following each OTN/ACT Data Push. This happens three times per year, or every four months. Follow ups with individual researchers is required for information from new projects that is not collected by ACT_MATOS. The RWSC sourced data will update three times per year. New information will be collected as project staff reach out to us with updates. This information will be compiled, and the attribute table will be updated three times per year in line with the regional network's data pushes. It would also be good to reach out to POCs annually to check in and see if the existing metadata is still up to date as these updates are not automated.

Resource Constraints ►

Constraints
Limitations of use
These data will be used by RWSC and its expert Subcommittees, partners, and other participants to implement the Science Plan, including to understand the extent of ongoing and planned data collection activities, and to coordinate and plan future data collection and research activities with respect to offshore wind. The data will be displayed via online mapping platforms.

Spatial Reference ►

ArcGIS coordinate system
Type ⇔ Geographic
Geographic coordinate reference ⇔ GCS_WGS_1984
Coordinate reference details ⇔
GeographicCoordinateSystem
WKID 4326
XOrigin -400
YOrigin -400
XYScale 999999999.99999988
ZOrigin -100000
ZScale 10000
MOrigin -100000
MScale 10000
XYTolerance 8.983152841195215e-09
ZTolerance 0.001
MTolerance 0.001
HighPrecision true
LeftLongitude -180
LatestWKID 4326
WKT
GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORIT

Reference system identifier
Value ⇔ 4326
Codespace ⇔ EPSG
Version ⇔ 6.2(3.0.1)

Spatial Data Properties ►

Vector ►
Level of topology for this dataset ⇔ geometry only

Geometric objects
Feature class name Acoustic_Telemetry_Receivers
Object type ⇔ point
Object count ⇔ 0

ArcGIS Feature Class Properties ►
Feature class name Acoustic_Telemetry_Receivers
Feature type ⇔ Simple
Geometry type ⇔ Point

Has topology ⇔ FALSE
Feature count ⇔ 0
Spatial index ⇔ TRUE
Linear referencing ⇔ FALSE

Data Quality ►

Data quality report - Conceptual consistency ►
Data quality measure reference
Measure description
The data are represented as coordinate points with longitude and latitude aspects. They constitute both realized receiver locations and proposed locations. Device locations, deployment start/end dates and other metadata are subject to change. Reach out to the listed deployment POC for most up-to-date information.

Data quality report - Completeness omission ►
Data quality measure reference
Measure description
This dataset reflects the most recent present and future known locations of Acoustic Telemetry receivers, and is updated every four months. If an end date was not provided, an arbitrary end date was assigned to allow for time-enabled mapping feature to operate.

Lineage ►

Process step ►
When the process occurred 2025-01-01 00:00:00
Description
ACT-MATOS Process Steps:
1. Download dataset from Kim
2. Uploaded the CSV into R
3. Run attached ACT_CODE.txt file
4. Open in Excel
5. Add Contact_Information Column
6. Insert formula in new column to combine firstname, lastname, (email address), and role =CONCATENATE(M2, " ",N2, " (",R2,")", ", ",S2)
7. Add a new blank column to the right, copy and special paste values only into the blank column.
8. Delete original column
9. Delete original first name, lastname, email, role, and Contact_Information columns
10. Capitalize First letter of all column headings
11. Add Station_ to Status
12. Add Deploy_ to Longitude and Latitude columns
13. Changed "Affiliation" to Operator(s)
14. Added Project_Name, Approximation_Technique, Project_Deployment/Start_Date, Project_Recovery/End_Date, Co_Deployed_Instruments, Co_Deploy_List, Archival_or_Real-Time_Receiver, RWSC_or_ROSA_Database, Regional_Acoustic_Telemetry_Network, Project_Status, Seasonality_of_Receivers
15. Manually entered missing information from "Network Additional Information" google sheet (originally from email) and the ACT_MATOS Project Website.
16. Copied all project rows to a separate Google Sheet, by project. Sorted by Station Name A-Z. Kept only the most recent row of data per station, deleted the rest. Added instrument type to single row if all additional columns were the same, kept two columns if they are different.
17. Removed Glider projects, as they are going to be dealt with separately.
18. Removed the Rcvrcatnumber column.
19. Removed NOAA-NEFSC PAM Co-deployment data, as we received a more recent dataset directly from the team. Only kept the most recent row for each station.
20. Removed RI-DEM projects as they sent separate information for their deployments and it didn't exactly match what was provided by ACT_MATOS. Thought it best to use what was sent directly to me by project personnel.
21. Entered additional information from project personnel.

Process contact - originator
Individual's name Jordan Katz
Organization's name Regional Wildlife Science Collaborative

Contact information ►
Phone
Voice NA
Address
Type postal
Delivery point NA
City NA
Administrative area NA
Postal code NA
e-mail address "The ACT Network houses an interoperable database, which is an Ocean Tracking Network (OTN)-compatible node, called the ACT_MATOS node, which facilitates interconnectivity between other OTN-compatible nodes, such as the FACT Network node and the OTN node. Acoustic telemetry researchers use the MATOS data portal to submit data to the ACT database. The ACT database is a secure way to QA/QC and store acoustic telemetry data, and it facilitates detection cross-matching between tag and array owners among all OTN-compatible nodes. MATOS streamlines acoustic telemetry data management and sharing, enhances collaboration, and facilitates critical research and monitoring providing information on animal movement in the U.S. mid-Atlantic and Northeast." Upon joining the Network, users must sign a User Agreement, which outlines network practices and requirements of membership.

Process step ►
When the process occurred 2025-01-01 00:00:00
Description
FACT Network Process Steps:
1. Downloaded data file from Joy. All data from the FACT Network was provided with explicit permission from Project PIs by their voluntary completion of a Google Form.
2. Opened file in Google Sheets
3. Add columns to match ACT Network and RWSC Column Headings: Project_Name, Approximation_Technique, Project_Deployment/Start_Date, Project_Recovery/End_Date, Co_Deployed_Instruments, Co_Deploy_List, Archival_or_Real-Time_Receiver, RWSC_or_ROSA_Database, Regional_Acoustic_Telemetry_Network, Project_Status, Seasonality_of_Receivers
4. Changed "Affiliation" to Operator(s)
5. Add Contact_Information Column
6. Insert formula in new column to combine firstname, lastname, (email address), and role.
7. Add a new blank column to the right, copy and special paste values only into the blank column.

8. Delete original column first name, lastname, email, role and Contact_Information columns.
9. Manually entered missing information from “Network Additional Information” google sheet (originally from email) and the FACT Network Project Websites.
10. Upload File into R Studio.
11. Ran attached FACT_Code.txt file in R studio.
12. Put Excel File into google sheets.
13. Changed Format of Last_Deploy_Date, Last_Recovery_Date, and last_Download to be date with no time.
14. Went through the PIs from the original data sheet and added additionals as well as their organization to the operator column.
15. Project deploy date did not cross over well, updated from original document.
16. Deleted the Rvcatnumber column.
17. Added additional information from project personnel.
18. Downloaded second datasheet from Joy and ran attached FACT_Code.txt file in R studio. It looks to be newer. Repeated all above steps on new data.
19. Filtered to include projects that had a last recovery date or last download date after 12/31/2021. For projects that did not have a last download or last recovery date, the deploy_date was used with the same after 12/31/2021 cutoff date.

Process contact - originator
Individual's name Jordan Katz
Organization's name Regional Wildlife Science Collaborative

Contact information ►
Phone
Voice NA
Address
Type postal
Delivery point NA
City NA
Administrative area NA
Postal code NA
e-mail address “The ACT Network houses an interoperable database, which is an Ocean Tracking Network (OTN)-compatible node, called the ACT_MATOS node, which facilitates interconnectivity between other OTN-compatible nodes, such as the FACT Network node and the OTN node. Acoustic telemetry researchers use the MATOS data portal to submit data to the ACT database. The ACT database is a secure way to QA/QC and store acoustic telemetry data, and it facilitates detection cross-matching between tag and array owners among all OTN-compatible nodes. MATOS streamlines acoustic telemetry data management and sharing, enhances collaboration, and facilitates critical research and monitoring providing information on animal movement in the U.S. mid-Atlantic and Northeast.” Upon joining the Network, users must sign a User Agreement, which outlines network practices and requirements of membership.

Process step ►
When the process occurred 2025-01-01 00:00:00
Description
Added information provided by project personnel.

Process contact - originator
Individual's name Jordan Katz
Organization's name Regional Wildlife Science Collaborative

Contact information ►
Phone
Voice NA
Address
Type postal
Delivery point NA
City NA
Administrative area NA
Postal code NA
e-mail address “The ACT Network houses an interoperable database, which is an Ocean Tracking Network (OTN)-compatible node, called the ACT_MATOS node, which facilitates interconnectivity between other OTN-compatible nodes, such as the FACT Network node and the OTN node. Acoustic telemetry researchers use the MATOS data portal to submit data to the ACT database. The ACT database is a secure way to QA/QC and store acoustic telemetry data, and it facilitates detection cross-matching between tag and array owners among all OTN-compatible nodes. MATOS streamlines acoustic telemetry data management and sharing, enhances collaboration, and facilitates critical research and monitoring providing information on animal movement in the U.S. mid-Atlantic and Northeast.” Upon joining the Network, users must sign a User Agreement, which outlines network practices and requirements of membership.

Process step ►
When the process occurred 2025-02-28 00:00:00
Description
Added some of the additional information from ACT-MATOS for RIDEM Projects.

Process contact - originator
Individual's name Jordan Katz
Organization's name Regional Wildlife Science Collaborative

Contact information ►
Phone
Voice NA
Address
Type postal
Delivery point NA
City NA
Administrative area NA
Postal code NA
e-mail address “The ACT Network houses an interoperable database, which is an Ocean Tracking Network (OTN)-compatible node, called the ACT_MATOS node, which facilitates interconnectivity between other OTN-compatible nodes, such as the FACT Network node and the OTN node. Acoustic telemetry researchers use the MATOS data portal to submit data to the ACT database. The ACT database is a secure way to QA/QC and store acoustic telemetry data, and it facilitates detection cross-matching between tag and array owners among all OTN-compatible nodes. MATOS streamlines acoustic telemetry data management and sharing, enhances collaboration, and facilitates critical research and monitoring providing information on animal movement in the U.S. mid-Atlantic and Northeast.” Upon joining the Network, users must sign a User Agreement, which outlines network practices and requirements of membership.

Process step ►

When the process occurred 2025-03-03 00:00:00
Description
RWSC, ACT-MATOS & FACT project table brought into ArcGIS Pro as point data.

Process contact - author
Individual's name Samantha Coccia-Schillo
Organization's name Regional Wildlife Science Collaborative
Contact's position GIS Manager

Contact information ►
Phone
Voice NA
Address
Type postal
City NA
Administrative area NA
Postal code NA
e-mail address scoccia-schillo@outlook.com

Process step ►
When the process occurred 2025-04-04 00:00:00
Description
Layer published to server -service created.

Process contact - author
Individual's name Samantha Coccia-Schillo
Organization's name Regional Wildlife Science Collaborative
Contact's position GIS Manager

Contact information ►
Phone
Voice NA
Address
Type postal
City NA
Administrative area NA
Postal code NA
e-mail address scoccia-schillo@outlook.com

Source data ►
Description
FACT Network - "A grassroots collaboration of marine scientists using acoustic telemetry and other technologies to better understand and conserve our region's important fish and sea turtle species." https://secoora.org/fact/

ACT-MATOS - "The collaboration that became the ACT Network can be traced back to September 27th, 2005 in Alexandria, VA. During an Atlantic States Marine Fisheries Commission - Atlantic Sturgeon Technical Committee meeting, it became apparent that several researchers were using acoustic telemetry, but their findings were spatially limited, bounded by their individual arrays.The ACT founders couldn't imagine how great ACT would become over the next couple of decades. The ACT Network is currently composed of 215 members from 106 organizations who lead 165 projects tracking 11,534 individuals from 72 species. The network database has 2,300 receiver stations and hosts data from several glider missions." https://theactnetwork.com/

RWSC - The Regional Wildlife Science Collaborative for Offshore Wind (RWSC) was cooperatively established and is led by four Sectors—federal agencies, states, eNGOs, and the offshore wind industry. RWSC is serving as a coordination hub for offshore wind research to increase collaboration, limit redundancy, suggest common data standards, and increase data sharing and transparency. https://rwsc.org/

Source citation ►
Title NA

Geoprocessing history ►

Process
Process name
Date 2025-03-27 12:43:28
Tool location c:\program files\arcgis\pro\Resources\ArcToolbox\toolboxes\Data Management Tools.tbx\CreateFeatureclass
Command issued
```
CreateFeatureclass D:\Contracting\RWSC\GIS_Work\Acoustic_Telemetry\AcousticTelemetry\AcousticTelemetry.gdb
ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint POINT in_memory\intermediate_csvtable DISABLED DISABLED
"GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433
-400 1000000000;-100000 10000;-100000 10000;8.98315284119521E-09;0.001;0.001;IsHighPrecision" # 0 0 0 # SAME_AS_TEMPLATE
```
Include in lineage when exporting metadata No

Process
Process name
Date 2025-03-27 12:43:28
Tool location c:\program files\arcgis\pro\Resources\ArcToolbox\toolboxes\Data Management Tools.tbx\XYTableToPoint
Command issued
```
XYTableToPoint "D:\Contracting\RWSC\GIS_Work\Acoustic_Telemetry\ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025 - Sheet1.csv"
D:\Contracting\RWSC\GIS_Work\Acoustic_Telemetry\AcousticTelemetry\AcousticTelemetry.gdb\ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_202
Deploy_Longitude Deploy_Latitude #
"GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433
-400 1000000000;-100000 10000;-100000 10000;8.98315284119521E-09;0.001;0.001;IsHighPrecision"
```
Include in lineage when exporting metadata No

Process
Process name
Date 2025-03-31 15:28:58

Tool location c:\program files\arcgis\pro\Resources\ArcToolbox\toolboxes\Conversion Tools.tbx\ExportFeatures

Command issued

```
ExportFeatures ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint
D:\Contracting\RWSC\GIS_Work\Final_Map_Servers\Fish_and_Sea_Turtle_Tagging\Fish_and_Sea_Turtle_Tagging.gdb\Acoustic_
# NOT_USE_ALIAS "Project_Name "Project Name" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Project_Name,0,7999;Collection_Code "Collection Code"
true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Collectioncode,0,7999;Operators "Operator(s)" true
true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Operator_s_,0,7999;Contact_Information "Contact
Information" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Contact_Information,0,7999;Deploy_Latitude "Deploy
Latitude" true true false 8 Double 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Deploy_Latitude,-1,-1;Deploy_Longitude "Deploy
Longitude" true true false 8 Double 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Deploy_Longitude,-1,-1;Approximation_Technique
"Approximation_Technique" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Approximation_Technique,0,7999;Station_Name
"Station_Name" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Station_Name,0,7999;Project_Deployment_Start_Date
"Project_Deployment/Start_Date" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Project_Deployment_Start_Date,0,7999;Project_Recovery_I
"Project_Recovery/End_Date" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Project_Recovery_End_Date,0,7999;Last_Deploy_Date
"Last_Deploy_Date" true true false 8 Date 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Last_Deploy_Date,-1,-1;Last_Recovery_Date
"Last_Recovery_Date" true true false 8000 Date 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Last_Recovery_Date,0,7999;Station_Type "Station_Type"
true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Station_Type,0,7999;Instrument_Type_Model
"Instrument_Type/Model" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Instrument_Type_Model,0,7999;Co_Deployed_Instruments
"Co_Deployed_Instruments" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Co_Deployed_Instruments,0,7999;Co_Deploy_List
"Co_Deploy_List" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Co_Deploy_List,0,7999;Archival_or_Real_Time_Receiver
"Archival_or_Real-Time_Receiver" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Archival_or_Real_Time_Receiver,0,7999;RWSC_or_ROSA_Data
"RWSC_or_ROSA_Database" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,RWSC_or_ROSA_Database,0,7999;Regional_Acoustic_Telemetr
"Regional_Acoustic_Telemetry_Network" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Regional_Acoustic_Telemetry_Network,0,7999;Project_Stat
"Project_Status" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Project_Status,0,7999;Rcvrstatus "Rcvrstatus" true
true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Rcvrstatus,0,7999;Station_Status "Station_Status"
true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Station_Status,0,7999;Seasonality_of_Receivers
"Seasonality_of_Receivers" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Seasonality_of_Receivers,0,7999;Last_Download_Date
"Last_Download_Date" true true false 8000 Date 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Last_Download_Date,0,7999;Date_Last_Updated_By_RWSC
"Date_Last_Updated_By_RWSC" true true false 8 Date 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Date_Last_Updated_By_RWSC,-1,-1;Metadata_Form
"Metadata_Form" true true false 8000 Text 0
0,First,#,ACT_MATOS_FACT_RWSC_Combined_Attribute_Table_March_14_2025Sheet1_XYTableToPoint,Metadata_Form,0,7999" #
```

Include in lineage when exporting metadata No

Process

Process name

Date 2025-04-01 14:09:44

Tool location c:\program files\arcgis\pro\Resources\ArcToolbox\toolboxes\Data Management Tools.tbx\CopyMultiple

Command issued

```
CopyMultiple
"D:\Contracting\RWSC\GIS_Work\Final_Map_Servers\Fish_and_Sea_Turtle_Tagging\Fish_and_Sea_Turtle_Tagging\Fish_and_Sea_Turtle_Tagging.gdb\Acoustic_
FeatureClass" "D:\Contracting\RWSC\GIS_Work\Final_Map_Servers\Fish_and_Sea_Turtle_Tagging\Fish_and_Sea_Turtle_Tagging\PostgreSQL- rwsc-db-pg15-
rpt(rpt).sde" Acoustic_Telemetry_Receivers "Acoustic_Telemetry_Receivers FeatureClass rpt.rpt.Acoustic_Telemetry_Receivers #"
```

Include in lineage when exporting metadata No

Distribution ►

Distribution format

Name ⇔ File Geodatabase Feature Class

Fields ►

Details for object Acoustic_Telemetry_Receivers ►

Type ⇔ Feature Class

Row count ⇔ 0

Definition

Acoustic Telemetry Receivers

Definition source

RWSC

Field OBJECTID ►

Alias ⇔ OBJECTID

Data type ⇔ OID

Width ⇔ 4

Precision ⇔ 0

Scale ⇔ 0

Field description ⇔
Internal feature number.

Description source ⇔
Esri

Description of values ⇔
Sequential unique whole numbers that are automatically generated.

Field Shape ►
Alias ⇔ Shape
Data type ⇔ Geometry
Width ⇔ 0
Precision ⇔ 0
Scale ⇔ 0

Field description ⇔
Feature geometry.

Description source ⇔
Esri

Description of values ⇔
Coordinates defining the features.

Field Project_Name ►
Alias ⇔ Project Name
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Full name of project

Description source
FACT, ACT, project personnel

Description of values
text

Field Collection_Code ►
Alias ⇔ Collection Code
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Project code associated with the regional network. NA if project does not participate in a regional network.

Description source
FACT, ACT, regional network website

Field Operators ►
Alias ⇔ Operator(s)
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Affiliation of the Principal Investigators of the project.

Description source
FACT, ACT, project personnel

Field Contact_Information ►
Alias ⇔ Contact Information
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Name and email address of the Principal Investigators.

Description source
FACT, ACT, project personnel

Field Deploy_Latitude ►
Alias ⇔ Deploy Latitude
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0

Field description
Latitude of the most recent receiver deployment at the station for ongoing, completed, or paused projects. For planned projects, the Latitude is for the most recent receiver set to be deployed.

Description source
FACT, ACT, project personnel

Field Deploy_Longitude ►
Alias ⇔ Deploy Longitude
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0

Field description
Longitude of the most recent receiver deployment at the station for ongoing, completed, or paused projects. For planned projects, the Longitude is for the most recent receiver set to be deployed.

Description source
FACT, ACT, project personnel

Field Approximation_Technique ►
Alias ⇔ Approximation_Technique
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Technique used to approximate receiver locations if actual locations are not provided. ACT_MATOS and the FACT Network provide actual locations. NA if actual locations are provided.

Description source
FACT, ACT, project personnel

Field Station_Name ►
Alias ⇔ Station_Name
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Sequential position of the mooring assembly on the array. If none were provided, numerical stations were added by RWSC staff in the order that they appeared in the received dataset (1-n).

Description source
FACT, ACT, project personnel

Field Project_Deployment_Start_Date ►
Alias ⇔ Project_Deployment/Start_Date
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Project/Deployment start date or planned project start date for projects that have not begun.

Description source
FACT, ACT, project personnel

Field Project_Recovery_End_Date ►
Alias ⇔ Project_Recovery/End_Date
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0

Scale ⇔ 0

Field description
Project/Deployment end date or projected end date for projects that are ongoing.

Description source
FACT, ACT, project personnel

Field Last_Deploy_Date ►
Alias ⇔ Last_Deploy_Date
Data type ⇔ Date
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0

Field description
Most recent date a receiver was deployed at the station. Sometimes left blank.

Description source
FACT, ACT, project personnel

Field Last_Recovery_Date ►
Alias ⇔ Last_Recovery_Date
Data type ⇔ Date
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0

Field description
Most recent date the deployed receiver was recovered at the station. Usually provided by a regional network. Sometimes left blank.

Description source
FACT, ACT, project personnel

Field Station_Type ►
Alias ⇔ Station_Type
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Purpose of station. Likely left blank if regional network didn't provide.

Description source
FACT, ACT, project personnel

Field Instrument_Type_Model ►
Alias ⇔ Instrument_Type/Model
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Model number of the instrument as provided by the manufacturer, if NOT acoustic then prefix with instrument type and manufacturer's name or acronym.

Description source
FACT, ACT, project personnel

Field Co_Deployed_Instruments ►
Alias ⇔ Co_Deployed_Instruments
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Whether or not there are additional sensors or instruments deployed with the receiver at the station (yes or no). Other is selected if some receivers do have co-deployed instruments and some do not, but the receiver locations of each are not specified.

Description source
project website or project personnel

Field Co_Deploy_List ►
Alias ⇔ Co_Deploy_List
Data type ⇔ String

Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
If yes to the previous- list of any additional sensors or instruments deployed with the receiver at the station. If no to the previous, NA.

Description source
project website or project personnel

Field Archival_or_Real_Time_Receiver ►
Alias ⇔ Archival_or_Real-Time_Receiver
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Whether the receiver collects archival or real-time data.

Description source
project personnel

Field RWSC_or_ROSA_Database ►
Alias ⇔ RWSC_or_ROSA_Database
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Link to project site on the RWSC or ROSA database. NA if project is not in either.

Description source
RWSC

Field Regional_Acoustic_Telemetry_Network ►
Alias ⇔ Regional_Acoustic_Telemetry_Network
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
The regional acoustic telemetry network the project participates in as well as the network project link. No if project does not participate in a regional network.

Description source
RWSC

Field Project_Status ►
Alias ⇔ Project_Status
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Status of the project: planned, ongoing, completed, or paused.

Description source
project website or project personnel

List of values
Value Planned, Ongoing, Completed, Paused
Description Planned, Ongoing, Completed, Paused
Enumerated domain value definition source RWSC

Field Rcvrstatus ►
Alias ⇔ Rcvrstatus
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
The status of the receiver at the station. This field is otherwise provided by a regional network and will likely be left blank if not provided.

Description source

FACT, ACT

Field Station_Status ►
Alias ⇔ Station_Status
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
The status of the station. This field is otherwise provided by a regional network and will likely be left blank if not provided

Description source
FACT, ACT

Field Seasonality_of_Receivers ►
Alias ⇔ Seasonality_of_Receivers
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
Whether the receivers are set to be deployed all year-round or are seasonal. If seasonal, season(s) provided.

Description source
FACT, ACT, project website, project personnel

Field Last_Download_Date ►
Alias ⇔ Last_Download_Date
Data type ⇔ Date
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0

Field description
Date the data was last downloaded from the deployed receiver. This field is otherwise provided by a regional network and will likely be left blank.

Description source
FACT, ACT

Field Date_Last_Updated_By_RWSC ►
Alias ⇔ Date_Last_Updated_By_RWSC
Data type ⇔ Date
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0

Field description
The last date changes were made to the information in the table.

Description source
RWSC

Field Metadata_Form ►
Alias ⇔ Metadata_Form
Data type ⇔ String
Width ⇔ 8000
Precision ⇔ 0
Scale ⇔ 0

Field description
The correct metadata form to use for this receiver.

https://docs.google.com/spreadsheets/d/17MKaNTpz8r4q_GpzZp0UgNcXf5Nf7JRb/edit?gid=1348061928#gid=1348061928

Description source
RWSC

Metadata Details ►

Metadata language ⇔ English (UNITED STATES)
Metadata character set utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata ⇔ dataset
Scope name ⇔ dataset

Last update ⇔ 2025-04-04

ArcGIS metadata properties
Metadata format ArcGIS 1.0
Standard or profile used to edit metadata FGDC

Created in ArcGIS for the item 2025-04-01 14:09:35
Last modified in ArcGIS for the item 2025-04-04 20:09:11

Automatic updates
Have been performed Yes
Last update 2025-03-31 15:28:56

Metadata Contacts ►

Metadata contact - originator
Individual's name Jordan Katz
Organization's name Regional Wildlife Science Collaborative

Contact information ►
Phone
Voice NA
Address
Type postal
Delivery point NA
City NA
Administrative area NA
Postal code NA
e-mail address "The ACT Network houses an interoperable database, which is an Ocean Tracking Network (OTN)-compatible node, called the ACT_MATOS node, which facilitates interconnectivity between other OTN-compatible nodes, such as the FACT Network node and the OTN node. Acoustic telemetry researchers use the MATOS data portal to submit data to the ACT database. The ACT database is a secure way to QA/QC and store acoustic telemetry data, and it facilitates detection cross-matching between tag and array owners among all OTN-compatible nodes. MATOS streamlines acoustic telemetry data management and sharing, enhances collaboration, and facilitates critical research and monitoring providing information on animal movement in the U.S. mid-Atlantic and Northeast." Upon joining the Network, users must sign a User Agreement, which outlines network practices and requirements of membership.

Metadata Maintenance ►

Maintenance
Update frequency as needed

Thumbnail and Enclosures ►

Thumbnail
Thumbnail type
Image file