Center for Coastal Studies: Eastern Outer Shore - Aerial Surveys 2021-2024

Type Enterprise Geodatabase Feature Class

Tags RWSC, CCS, Eastern Outer Shore, Aerial Surveys, Marine Mammals, whale

Summary

This layer represents transects from the Center for Coastal Studies' aerial surveys conducted from 2021-2024 along Cape Cod's Eastern Outer Shore. These lines show only the planned routes for the aerial surveys and are displayed for planning and research coordination purposes.

Description

This layer represents transects from Center for Coastal Studies' aerial surveys conducted from 2021-2024 along Cape Cod's Eastern Outer Shore. CCS conducts Aerial surveys each winter in support of research on North Atlantic right whale population, ecology and human impacts. Aerial platforms allow researchers to survey the area more extensively in less time than vessel surveys would allow. Feeding right whales can swim slowly, mere feet below the surface for over twenty minutes. From the air, observers can see into the water and can track a subsurface whale until it emerges for a breath.

The main objective of the observers on board is to locate and document right whales. When a right whale is sighted, the plane breaks from its current track line to circle over the whale. The observers quickly record the position, how many whales are present, dive times and behaviors. Whales are also checked for signs of entanglement. One of the observers is responsible for obtaining identifying photographs of the whale. Right whales are identified by the patterns of callosities found on the top of the head. From the bird's eye perspective of the airplane, the top of the whale's head and a dorsal view of the body is easily photographed. Photographing the body is important as scars along the body and flukes can assist in identifying the individual whale.

The surveys are conducted from January through May and are typically done once a month during that period. They used a line-transect methodology flying a series of east-west track lines that are spaced 3 nm apart.

For more information visit project site: https://database.rwsc.org/details?recordId=rec8uYmbwmSLZaQOb

These shapefiles display just the planned routes, to view the realized routes from all completed surveys visit: https://whalemap.org/#map

Credits

Daniel Palacios - CCS, dpalacios@coastalstudies.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 -70.283334 East -69.421616 North 42.133342 South 41.582111

Scale Range

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

Topics and Keywords ▶

Themes or categories of the resource Biota, Oceans

Content type ← Downloadable Data
Export to FGDC CSDGM XML format as Resource Description No

Citation

Title Center for Coastal Studies: Eastern Outer Shore - Aerial Surveys 2021-2024 Publication date 2024-07-12 00:00:00

 $Presentation \ formats \quad \Leftrightarrow digital \ map$

Citation Contacts **>**

Responsible party - point of contact Individual's name Daniel Palacios Organization's name Center for Coastal Studies

Contact information ►
Phone

Voice NA
Address
Type postal
Delivery point NA
City NA
Administrative area NA

Postal code NA e-mail address dpalacios@coastalstudies.org

Responsible party - originator

Individual's name Debbie Brill

Organization's name Regional Wildlife Science Collaborative for Offshore Wind

Contact's position Marine Mammals Subcommittee Lead

```
Contact information ▶
        Phone
          Voice NA
        Address
          Type postal
          Delivery point NA
          City NA
          Administrative area NA
          Postal code NA
          e-mail address Deborah.brill@duke.edu
Resource Details >
 Dataset languages ⇔ English (UNITED STATES)
 Dataset character set utf8 - 8 bit UCS Transfer Format
 Status completed
 Spatial representation type ⇔vector
 Processing environment  

⇔ Microsoft Windows 10 Version 10.0 (Build 22631); Esri ArcGIS 13.2.2.49743
 Daniel Palacios - CCS, <a href=mailto:dpalacios@coastalstudies.org target="_blank">dpalacios@coastalstudies.org</a>
 ArcGIS item properties
   Name ⇔rpt.rpt.CenterforCoastalStudies_EOS_AerialSurveys
   Size ⇔ 0.000
   Access protocol ⇔ArcSDE Connection
Extents >
 Extent
   Description
   Aerial Surveys conducted from 2021 - 2024
   Geographic extent
      Bounding rectangle
       Extent type
      Extent used for searching
        West longitude -70.283334
        East longitude -69.421616
        North latitude 42.133342
        South latitude 41.582111
       Extent contains the resource Yes
   Temporal extent
      Beginning date 2021-01-01 00:00:00
      Ending date 2024-12-31 00:00:00
 Extent in the item's coordinate system
   westBL ⇔-70.283334
   eastBL \Leftrightarrow -69.421616
   exTypeCode ⇔Yes
Resource Points of Contact ▶
 Point of contact - point of contact
   Individual's name Daniel Palacios
   Organization's name Center for Coastal Studies
      Contact information ▶
        Phone
          Voice NA
        Address
          Type postal
          Delivery point NA
          City NA
          Administrative area NA
          Postal code NA
          e-mail address dpalacios@coastalstudies.org
Resource Maintenance >
  Resource maintenance
   Update frequency as needed
```

Resource Constraints >

Constraints

Limitations of use

These data will be used by RWSC and its expert Subcommittees, partners, and other participants to implement the <u>Science Plan</u>, 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
 Coordinate reference details \Leftrightarrow
    GeographicCoordinateSystem
      WKID 4326
     XOrigin -400
      YOrigin -400
     XYScale 1111948722.2222219
     ZOrigin 0
     ZScale 1
     MOrigin 0
     MScale 1
     XYTolerance 8.983152841195215e-09
     ZTolerance 0.001
     MTolerance 0.001
     HighPrecision true
     LeftLongitude -180
     LatestWKID 4326
```

 $GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID["WGS_1984",6378137.0,298.257223563]], PRIMEM["Greenwich",0.0], UNIT["Degree",0.0174532925199433], AUTHORITICAL STREET FROM the street of the property of t$

Reference system identifier

Value \Leftrightarrow 4326 Codespace \Leftrightarrow EPSG Version \Leftrightarrow 6.2(3.0.1)

Spatial Data Properties ▶

Vector ▶

Level of topology for this dataset ⇔ geometry only

Geometric objects

Feature class name $\mbox{rpt.rpt.CenterforCoastalStudies_EOS_AerialSurveys}$ Object type $\ \Leftrightarrow \mbox{composite}$ Object count $\ \Leftrightarrow \mbox{0}$

ArcGIS Feature Class Properties ▶

Feature class name rpt.rpt.CenterforCoastalStudies_EOS_AerialSurveys
Feature type ⇔ Simple
Geometry type ⇔ Polyline
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

Polyline shapefiles depicting aerial survey transect positions

Data quality report - Completeness omission

Data quality measure reference

Measure description

This dataset reflects ongoing aerial survey paths, and is complete as of 7/12/24. May be updated as needed.

Lineage ▶

Lineage statement

Received shapefiles directly from contacts

Process step ▶

When the process occurred 2024-07-10 00:00:00
Description
1. Data imported into GIS

1. Data imported into GIS

Process step ▶

When the process occurred 2024-07-10 00:00:00 Description

2. All features merged into single feature

Process step ▶

When the process occurred 2024-07-10 00:00:00 Description

3. Field names added and filled in

Source data ▶

Description

Received shapefiles directly from contacts

Distribution >

Distribution format

Name ⇔Enterprise Geodatabase Feature Class

Transfer options

Transfer size ⇔ 0.000

Fields ▶

Details for object rpt.rpt.CenterforCoastalStudies_EOS_AerialSurveys ▶

Type ⇔ Feature Class Row count $\Leftrightarrow 0$

Definition

Attribute table prepared by RWSC

Definition source

RWSC

Field OBJECTID ▶

Alias ⇔OBJECTID Data type ⇔OID Width ⇔4 Precision ⇔10 Scale ⇔0

Field description \Leftrightarrow Internal feature number.

Description source ⇔

Description of values ⇔

Sequential unique whole numbers that are automatically generated.

Field Shape ▶

Alias ⇔shape Width ⇔8 $Precision \ \Leftrightarrow 0$ Scale ⇔0

Field description ⇔ Feature geometry.

Description source ⇔

Esri

Description of values ⇔

Coordinates defining the features.

Field OPERATOR ▶

Alias ⇔ OPERATOR Data type ⇔String Width ⇔254 Precision ⇔0 Scale ⇔0

Field description

The primary affiliation for the operator of the device

Description source

RWSC

Description of values

Unique name affiliation.

Field POC_EMAIL ▶

Alias ⇔ POC_EMAIL Data type ⇔String $Width \quad \Leftrightarrow 254$ Precision ⇔0 Scale ⇔0

Field description

Email for the primary point of contact

Description source RWSC

Description of values Unique email addresses.

Field PROJECT_NAME ▶

Alias PROJECT_NAME $\mathsf{Data}\;\mathsf{type}\;\;\Leftrightarrow\!\mathsf{String}\;$ Width ⇔254 Precision ⇔0 Scale ⇔0

Field description Name of the project

Description source RWSC

Description of values Unique project name.

Field PATH_NAME ▶

Alias ⇔ PATH_NAME Data type ⇔String Width ⇔254 Precision $\Leftrightarrow 0$ Scale ⇔0

Field description The route ID.

Description source RWSC

Description of values Unique path identification.

Field START_YEAR ▶

Alias ⇔START_YEAR Data type ⇔Integer Width ⇔4 Precision ⇔10 Scale ⇔0

Field description

The start year in the YYYY format for the start of usable data for that path (i.e. the surveys are conducted in structured survey form).

Description source

RWSC

Description of values Year in YYYY format.

Field END_YEAR ▶

Alias ⇔ END_YEAR Data type ⇔Integer Width ⇔4 Precision \Leftrightarrow 10 Scale ⇔0

Field description

The end year in the YYYY format for the end of usable data for that path (i.e. the surveys are conducted in structured survey form). (*Default set to 2050 if no available end year)

Description source

RWSC

Description of values

Year in YYYY format.

Field START_DATE ▶

 $\begin{array}{ll} \text{Alias} & \Leftrightarrow \text{START_DATE} \\ \text{Data type} & \Leftrightarrow \text{String} \\ \text{Width} & \Leftrightarrow 254 \\ \text{Precision} & \Leftrightarrow 0 \\ \text{Scale} & \Leftrightarrow 0 \end{array}$

Field description

The start date in the D-Month format for the start of the typical survey season. (*NOT an actual date field, keeping it as text so that it doesn't add a default year)

Description source

RWSC

Description of values

Text start date for season.

Field END_DATE ▶

Alias \Leftrightarrow END_DATE

Data type \Leftrightarrow String

Width \Leftrightarrow 254

Precision \Leftrightarrow 0

Scale \Leftrightarrow 0

Field description

The end date in the D-Month format for the end of the typical survey season. (*NOT an actual date field, keeping it as text so that it doesn't add a default year)

Description source

RWSC

Description of values

Text end date for season.

Field FREQUENCY ▶

 $\begin{array}{ll} \text{Alias} & \Leftrightarrow \text{FREQUENCY} \\ \text{Data type} & \Leftrightarrow \text{String} \\ \text{Width} & \Leftrightarrow 254 \\ \text{Precision} & \Leftrightarrow 0 \\ \text{Scale} & \Leftrightarrow 0 \end{array}$

Field description

 $\stackrel{\cdot}{\text{Proposed/approximate frequency of surveys throughout the survey season}}$

Description source

RWSC.

Description of values

Unique frequency measure.

Field PROJECT_LINK ▶

Alias PROJECT_LINK
Data type \Leftrightarrow String
Width \Leftrightarrow 254
Precision \Leftrightarrow 0
Scale \Leftrightarrow 0

Field description

Link to the project entry in the RWSC database if applicable

Description source

RWSC

Description of values

Unique link address.

Field DATE_SUBMITTED ▶

Alias DATE_SUBMITTED Data type \Leftrightarrow Date Width \Leftrightarrow 8 Precision \Leftrightarrow 0 Scale \Leftrightarrow 0

Field description

The date the shapefiles were sent to the RWSC

Description source

RWSC

Description of values

Date field.

```
Field DATE_ADDED ▶
       Alias ⇔ DATE_ADDED
      \mathsf{Data}\;\mathsf{type}\;\;\Leftrightarrow\!\mathsf{Date}\;
       Width ⇔8
       Precision ⇔0
       Scale ⇔0
       Field description
       The date the entries were added to map
       Description source
       RWSC
       Description of values
       Date field.
    Field LABEL ▶
       Alias LABEL
       Data type ⇔ String
       Width ⇔254
       Precision ⇔0
       Scale ⇔0
       Field description
       The proposed layer name to appear in the table of contents
       Description source
       RWSC.
       Description of values
       Unique label for use in symbology.
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 ⇔2024-09-24
  ArcGIS metadata properties
    Metadata format ArcGIS 1.0
    Standard or profile used to edit metadata FGDC
    Created in ArcGIS for the item 2024-01-24 12:31:40
    Last modified in ArcGIS for the item 2024-09-24 15:45:47
    Automatic updates
      Have been performed Yes
       Last update 2024-07-12 13:10:50
    Item location history
      Item copied or moved 2024-01-24 12:31:40
         From C:\Users\jozog\OneDrive - HDR, Inc\GIS\HDR_NARW_Aerial_Tracklines
         To \\DZ7YXT3\C$\Users\jozog\OneDrive - HDR, Inc\GIS\Aerial_for_Jackie\HDR_NARW_Aerial_Tracklines
Metadata Contacts ▶
  Metadata contact - originator
    Individual's name Debbie Brill
    Organization's name Regional Wildlife Science Collaborative for Offshore Wind
    Contact's position Marine Mammals Subcommittee Lead
       Contact information ▶
         Phone
           Voice NA
         Address
           Type postal
           Delivery point NA
           Administrative area NA
           Postal code NA
           e-mail address Deborah.brill@duke.edu
```

Metadata Maintenance ▶

Maintenance

Update frequency as needed