

New York Dept of Environmental Conservation: NY Bight - Aerial Surveys 2024-2027

Type Enterprise Geodatabase Feature Class

Tags RWSC, NY DEC, NY Bight, Marine Mammals, Aerial Surveys, whales

Summary

This layer depicts transects from New York Department of Environmental Conservation’s aerial surveys that are conducted by TetraTech from 2024-2027 in the New York Bight area. These lines show only the planned routes for the aerial surveys and are displayed for planning and research coordination purposes.

Description

This layer depicts transects from New York Department of Environmental Conservation’s aerial surveys that are conducted by TetraTech from 2024-2027 in the New York Bight area. This is a continuation of the large whale monitoring conducted 2017-2020 that were also conducted by TetraTech for NYDEC. The survey plan remains the same however there will be 6 surveys per year for 3 years (2024-2027). Fifteen transect lines run perpendicular from Long Island to the continental shelf break. Data collection focuses on six large whale species - blue, fin, sei, humpback, sperm, and North Atlantic right whales - but also includes sea turtles and opportunistic sightings of other marine animals. The objectives are: (1) to determine each species' distribution and estimate density; (2) to determine each species' monthly and seasonal occurrence; (3) to characterize the interannual variability of the distributions and densities; and (4) to record behavioral data of sighted whales as much as possible. Summaries will be publicly available as surveys progress. This layer shows the route NYDEC runs their New York Bight aerial surveys.

The surveys are conducted six times a year throughout the year. The survey team used a small high-wing, twin-engine aircraft with bubble windows flown at 1,000 feet and 100-110 knots. Each survey covered 15 transect lines that run northwest to southeast, extend 110 nautical miles to the continental shelf break, and total approximately 1,530 nautical miles. Transect lines were developed with input from the National Marine Fisheries Service (NMFS) Northeast Fisheries Science Center (NEFSC) for compatibility with their Atlantic Marine Assessment Program for Protected Species, the probability of coverage based on known species distributions, and estimated minimum sample size requirements for distance sampling.

For more information visit the project site: <https://dec.ny.gov/nature/waterbodies/oceans-estuaries/bight-whale-monitoring-program> ; and the RWSC database project page: <https://database.rwsc.org/details?recordId=recVmMMWrjykGSTen>

Credits

Meghan Rickard, NY DEC, Meghan.Rickard@dec.ny.gov

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 -73.830000 East -70.597997
North 41.077732 South 38.566309

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 New York Dept of Environmental Conservation: NY Bight - Aerial Surveys 2024-2027
Publication date 2024-07-12 00:00:00

Presentation formats ⇔ digital map

Citation Contacts ▶

Responsible party - point of contact
Individual's name Meghan Rickard
Organization's name NY Department of Environmental Conservation

Contact information ▶
Phone
Voice NA
Address
Type postal
City NA
Administrative area NA
Postal code NA
e-mail address Meghan.Rickard@dec.ny.gov

Responsible party - originator
Individual's name Debbie Brill
Organization's name Regional Wildlife Science Collaborative

Contact's position Marine Mammals Subcommittee Lead

Contact information ►

Phone

Voice NA

Address

Type postal

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 on-going

Spatial representation type ⇌ vector

Processing environment ⇌ Microsoft Windows 10 Version 10.0 (Build 22631) ; Esri ArcGIS 13.2.2.49743

Credits

Meghan Rickard, NY DEC, Meghan.Rickard@dec.ny.gov

ArcGIS item properties

Name ⇌ rpt.rpt.NY_DEC_NYB_AerialSurveys

Size ⇌ 0.000

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

Aerial Surveys conducted from 2024-2027

Geographic extent

Bounding rectangle

Extent type

Extent used for searching

West longitude -73.830000

East longitude -70.597997

North latitude 41.077732

South latitude 38.566309

Extent contains the resource Yes

Temporal extent

Beginning date 2024-01-01 00:00:00

Ending date 2027-12-31 00:00:00

Extent in the item's coordinate system

westBL ⇌ -73.830000

eastBL ⇌ -70.597997

southBL ⇌ 38.566309

northBL ⇌ 41.077732

exTypeCode ⇌ Yes

Resource Points of Contact ►

Point of contact - point of contact

Individual's name Meghan Rickard

Organization's name NY Department of Environmental Conservation

Contact information ►

Phone

Voice NA

Address

Type postal

City NA

Administrative area NA

Postal code NA

e-mail address Meghan.Rickard@dec.ny.gov

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 [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 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

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 rpt.rpt.NY_DEC_NYB_AerialSurveys

Object type ↔ composite

Object count ↔ 0

ArcGIS Feature Class Properties ▶

Feature class name rpt.rpt.NY_DEC_NYB_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

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

Distribution ▶
Distribution format
Name ↔ Enterprise Geodatabase Feature Class

Transfer options
Transfer size ↔ 0.000

Fields ▶
Details for object rpt.rpt.NY_DEC_NYB_AerialSurveys ▶
Type ↔ Feature Class
Row count ↔ 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 ↔
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 ↔ 8
Precision ↔ 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 ↔ 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
Data type ⇔ 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 ⇔ 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 ⇔ 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 ►
Alias ⇔ START_DATE
Data type ⇔ String
Width ⇔ 254
Precision ⇔ 0

Scale ⇔ 0

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 ⇔ END_DATE

Data type ⇔ String

Width ⇔ 254

Precision ⇔ 0

Scale ⇔ 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 ►

Alias ⇔ FREQUENCY

Data type ⇔ String

Width ⇔ 254

Precision ⇔ 0

Scale ⇔ 0

Field description

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 ⇔ String

Width ⇔ 254

Precision ⇔ 0

Scale ⇔ 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 ⇔ Date

Width ⇔ 8

Precision ⇔ 0

Scale ⇔ 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

Data type ⇔ 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 16:30:43

Automatic updates

Have been performed Yes
Last update 2024-07-14 22:47:34

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
Contact's position Marine Mammals Subcommittee Lead

Contact information ▶

Phone
Voice NA
Address
Type postal
City NA
Administrative area NA
Postal code NA
e-mail address Deborah.brill@duke.edu