

Boston Harbor Islands National Recreation Area Wetland points (14-15 October 2014)

Shapefile



Tags

Wetlands, NPS, National Park Service, Boston Harbor Islands National Recreation Area, BOHA, Massachusetts

Summary

The purpose was to provide detailed wetland/aquatic resource identification and boundary information for three wetland systems located on Thompson, Grape, and Peddocks Islands within BOHA.

Description

The objective of this investigation was to respond to a request for regional assistance for a comprehensive delineation of wetland habitats subject to jurisdiction under Section 404 of the Clean Water Act and all wetlands subject to National Park Service (NPS) procedures for implementing Director's Order #77-1: Wetland Protection at three wetlands sites located on Thompson, Grape, and Peddocks Islands within Boston Harbor Islands National Park Area (BOHA). This work utilized the U.S Army Corps of Engineers (USACE) Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northeast and Northcentral Region (January 2012) as the primary methodology for making wetland determinations in the field. A total of 3 palustrine wetlands encompassing 4.50 acres of land were identified and delineated from 14-15 October 2014 within the three islands area (Fig. 1). Observed wetland ecosystems were primarily the following habitats: palustrine, emergent, persistent, (PEM1); palustrine forested, broad leaved deciduous (PFO1); palustrine, unconsolidated bottom, mud (PUB3) These sites were specifically chosen by National Park Service (NPS) and US Forest Service Scientists (USFS) staff as research locations for an invasive plant removal study and this work was performed to identify the regulatory wetland boundaries and facilitate the acquisition of any compliance documents under Section 404 and DO #77.1 purview. All of the identified and mapped palustrine wetland systems encountered during the October 2014 investigation met both the U.S. Army Corps of Engineers criteria and the Cowardin et al. (1979) definitions of wetland habitat. No new riverine wetland systems were identified and mapped over the course of this investigation.

Credits

National Park Service, Natural Resources and Science

Use limitations

No restrictions on accessing the data - boundary data collected by Peter J. Sharpe - National Park Service.

Data Distribution Liability Statement

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Extent

West -71.010697 **East** -70.919830
North 42.318828 **South** 42.266831

Scale Range

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

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE boundaries, inlandWaters

* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

THEME KEYWORDS Wetland

Hide Topics and Keywords ▲

Citation ►

TITLE Boston Harbor Islands National Recreation Area Wetland points (14-15 October 2014)

CREATION DATE 2014-10-15 00:00:00

PUBLICATION DATE 2016-02-23 00:00:00

PRESENTATION FORMATS * digital map

Hide Citation ▲

Citation Contacts ►

RESPONSIBLE PARTY

INDIVIDUAL'S NAME Peter Sharpe

ORGANIZATION'S NAME National Park Service, NERO

CONTACT'S POSITION Hydrologist

CONTACT'S ROLE principal investigator

CONTACT INFORMATION ►

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E-MAIL ADDRESS peter_sharpe@nps.gov

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RESPONSIBLE PARTY

INDIVIDUAL'S NAME James Farrell

ORGANIZATION'S NAME DOI National Park Service, Northeast Region Natural Resources and Science

CONTACT'S POSITION GIS Specialist

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

PHONE

VOICE 2155979655

ADDRESS

E-MAIL ADDRESS james_farrell@nps.gov

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES * English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed

SPATIAL REPRESENTATION TYPE * vector

SUPPLEMENTAL INFORMATION

Pink wetland delineation flags were marked with a unique alpha numeric code and hung at regular intervals around the perimeter of each identified wetland habitat and located using a sub-meter accurate GPS system. Representative wetland test pits were also similarly flagged and located. GPS-based coordinates were collected for wetland test pit and boundary flags between 14-15 October 2014, using a Trimble GeoXT receiver with an external Hurricane antenna in datum NAD83, UTM – zone 19N, meter coordinates and TerraSync software. A minimum of 4 satellite vehicles were tracked. Where possible a maximum Position Dilution of Precision (PDOP) of 6 was maintained for each set and a minimum of 50 positions were taken at each point feature were possible. The data were post-processed and differentially corrected using Pathfinder Office 5.30 and base data downloaded from the MAMI MILTON CORS station located in Milton, MA. The data were then exported to shapefile format. Following this procedure we have estimated accuracies in the X and Y direction of 0 to 5 meters, using the above standards while selective availability (SA) is set to zero. No tests were done to confirm the X/Y direction accuracy during this investigation.

Point features for all PEM1 and PFO1 wetlands were created using gps data collected in field by p. sharpe.

Point features for Peddocks PUB3 were converted from kml polygon (digitized in Google Earth imagery-20150606), imported as layer into ArcGIS v.10.x, converted to shapefile. Using xtools pro v.11.x feature-to-point function, polygon vertices were converted to points.

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS

10.3.0.4322

CREDITS

National Park Service, Natural Resources and Science

ARCGIS ITEM PROPERTIES

* NAME 20160302_boha_wetland_points
 * SIZE 0.005
 * LOCATION file:///\\INPNEPH103219\C\$\Users\JEFARRELL\Desktop\Projects\Current Projects\BOHA\boha_wetlands\20160302_boha_wetland_points.shp
 * ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)**Extents ►**

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -71.010697
 * EAST LONGITUDE -70.919830
 * NORTH LATITUDE 42.318828
 * SOUTH LATITUDE 42.266831
 * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 334305.416698
 * EAST LONGITUDE 341671.198824
 * SOUTH LATITUDE 4681357.204454
 * NORTH LATITUDE 4686963.919696
 * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)**Resource Points of Contact ►**

POINT OF CONTACT

INDIVIDUAL'S NAME Peter Sharpe
 ORGANIZATION'S NAME National Park Service, NERO
 CONTACT'S POSITION Hydrologist
 CONTACT'S ROLE principal investigator

CONTACT INFORMATION ►

PHONE

VOICE 2678581001

ADDRESS

TYPE

E-MAIL ADDRESS peter_sharpe@nps.gov[Hide Contact information ▲](#)

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PHONE

VOICE 2155979655

ADDRESS

TYPE

E-MAIL ADDRESS james_farrell@nps.gov*Hide Contact information ▲**Hide Resource Points of Contact ▲***Resource Maintenance** ▶

RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

MAINTENANCE CONTACT

INDIVIDUAL'S NAME Peter Sharpe

ORGANIZATION'S NAME National Park Service, NERO

CONTACT'S POSITION Hydrologist

CONTACT'S ROLE principal investigator

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CONSTRAINTS

LIMITATIONS OF USE

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[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
- * PROJECTION NAD_1983_UTM_Zone_19N
- * COORDINATE REFERENCE DETAILS
 - PROJECTED COORDINATE SYSTEM
 - WELL-KNOWN IDENTIFIER 26919
 - X ORIGIN -5120900
 - Y ORIGIN -9998100
 - XY SCALE 450445547.3910538
 - Z ORIGIN -100000
 - Z SCALE 10000
 - M ORIGIN -100000
 - M SCALE 10000
 - XY TOLERANCE 0.001
 - Z TOLERANCE 0.001
 - M TOLERANCE 0.001
 - HIGH PRECISION true
 - LATEST WELL-KNOWN IDENTIFIER 26919
 - WELL-KNOWN TEXT PROJCS["NAD_1983_UTM_Zone_19N",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",500000.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-69.0],PARAMETER["Scale_Factor",0.9996],PARAMETER["Latitude_Of_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26919]]

REFERENCE SYSTEM IDENTIFIER

- * VALUE 26919
- * CODESPACE EPSG
- * VERSION 8.2.6

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ▶

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME 20160302_boha_wetland_points

* OBJECT TYPE point

* OBJECT COUNT 184

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ▶

FEATURE CLASS NAME 20160302_boha_wetland_points

* FEATURE TYPE Simple

* GEOMETRY TYPE Point

* HAS TOPOLOGY FALSE

* FEATURE COUNT 184

* SPATIAL INDEX TRUE

* LINEAR REFERENCING FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Data Quality ▶

SCOPE OF QUALITY INFORMATION ▶

RESOURCE LEVEL feature

Hide Scope of quality information ▲

Hide Data Quality ▲

Lineage ▶

LINEAGE STATEMENT

Point features for all PEM1 and PFO1 wetlands were created using gps data collected in field by p. sharpe.

Point features for Peddocks PUB3 were converted from kml polygon (digitized in Google Earth imagery-20150606), imported as layer into ArcGIS v.10.x, converted to shapefile. Using xtools pro v.11.x feature-to-point function, polygon vertices were then converted to points.

Hide Lineage ▲

Distribution ▶

DISTRIBUTION FORMAT

* NAME Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 0.005

Hide Distribution ▲

Fields ▶

DETAILS FOR OBJECT 20160302_boha_wetland_points ▶

* TYPE Feature Class

* ROW COUNT 184

FIELD FID ►

* ALIAS FID

* 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.

Hide Field FID ▲

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.

Hide Field Shape ▲

FIELD GPS_Date ►

* ALIAS GPS_Date

* DATA TYPE Date

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

points collected in field by p. sharpe

Peddocks PUB3 points not collected in field = N/A

Hide Field GPS_Date ▲

FIELD GPS_Time ►

* ALIAS GPS_Time

* DATA TYPE String

* WIDTH 10

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

points collected in field by p. sharpe

Peddocks PUB3 points not collected in field = N/A

Hide Field GPS_Time ▲

FIELD Datafile ►

- * ALIAS Datafile
- * DATA TYPE String
- * WIDTH 20
- * PRECISION 0
- * SCALE 0

Hide Field Datafile ▲

FIELD Cow_Class ►

- * ALIAS Cow_Class
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Cowardin System Habitats for these features.

Comprehensive classification system of wetlands and deepwater habitats was developed for the U.S. Fish and Wildlife Service (Cowardin et al. 1979).

<http://www.fws.gov/wetlands/data/wetland-codes.html>

Classification Code Definitions for this feature:

- PEM1 (P - Palustrine, EM - Emergent, 1 - Persistent)
- PFO1 (P - Palustrine, FO - Forested, 1 - Broad-Leaved Deciduous)
- PUB3 (P - Palustrine, UB - Unconsolidated Bottom, 3 - Mud)

Hide Field Cow_Class ▲

FIELD Wet_Name ►

- ALIAS Wetland Name
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Delineated wetlands

naming convention - "study area_cow-class_wetland#"

Grape study area includes one PEM1 wetland and two PFO1 wetlands:

- Grape_PEM1_w1
- Grape_PFO1_w1
- Grape_PFO1_w2

Peddocks study area includes one PEM1 wetland and one PUB3 wetland:

- Peddocks_PEM1_w1
- Peddocks_PUB3_w1

Thompson study area includes three PEM1 wetlands:

- Thompson_PEM1_w1
- Thompson_PEM1_w2
- Thompson_PEM1_w3

Hide Field Wet_Name ▲

FIELD Study_Area ▶

ALIAS Study Area Name

* DATA TYPE String

* WIDTH 50

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

three islands:

- Grape
- Peddocks
- Thompson

[Hide Field Study_Area ▲](#)**FIELD Point_ID ▶**

ALIAS Point Identifier

* DATA TYPE String

* WIDTH 50

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Name given to gps point in field at time of collection (p. sharpe).

Peddocks PUB3 points not collected in field (converted from kml polygon [digitized in Google Earth imagery-20150606], imported as layer into ArcGIS v.10.x, converted to shapefile. Using xtools pro v.11.x feature-to-point function, polygon vertices were then converted to points) are given a single ID of "PEPUB3"

[Hide Field Point_ID ▲](#)**FIELD Comments ▶**

* ALIAS Comments

* DATA TYPE String

* WIDTH 150

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

process for creation of feature point

[Hide Field Comments ▲](#)[Hide Details for object 20160302_boha_wetland_points ▲](#)[Hide Fields ▲](#)**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 2016-03-02

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
 STANDARD OR PROFILE USED TO EDIT METADATA FGDC
 METADATA STYLE FGDC CSDGM Metadata

CREATED IN ARCGIS FOR THE ITEM 2016-03-02 11:20:50
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-03-02 11:23:27

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
 LAST UPDATE 2016-03-02 11:23:27

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2014-12-11 13:51:15
 FROM S:_1.1_Science\GIS\GIS_Data\Working_Database\Biological_pre2014
 \Wetlands\WetlandRestoration2014_2018\Thompson\THOM_wetlanddilineation_2014
 TO
 \\inpBOHA58468S\Users\apetitdemange\GIS_Shared\Thompson\THOM_wetlanddilineation_2014

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

INDIVIDUAL'S NAME Peter Sharpe
 ORGANIZATION'S NAME National Park Service, NERO
 CONTACT'S POSITION Hydrologist
 CONTACT'S ROLE principal investigator

CONTACT INFORMATION ►

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METADATA CONTACT

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 ORGANIZATION'S NAME DOI National Park Service, Northeast Region Natural Resources and Science
 CONTACT'S POSITION GIS Specialist
 CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY not planned

[Hide Metadata Maintenance ▲](#)**Metadata Constraints ►**

CONSTRAINTS

LIMITATIONS OF USE

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[Hide Metadata Constraints ▲](#)**Thumbnail and Enclosures ►**

THUMBNAIL

THUMBNAIL TYPE JPG

ENCLOSURE

ENCLOSURE TYPE File

DESCRIPTION OF ENCLOSURE original metadata

ORIGINAL METADATA DOCUMENT, WHICH WAS TRANSLATED yes

SOURCE METADATA FORMAT fgdc

[Hide Thumbnail and Enclosures ▲](#)**FGDC Metadata (read-only) ▼**

Boston Harbor Islands National Recreation Area Wetland polygons (14-15 October 2014)

Shapefile



Tags

Wetlands, NPS, National Park Service, Boston Harbor Islands National Recreation Area, BOHA, Massachusetts

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THEME KEYWORDS Wetland

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE Boston Harbor Islands National Recreation Area Wetland polygons (14-15 October 2014)
CREATION DATE 2014-10-15 00:00:00
PUBLICATION DATE 2016-02-23 00:00:00

PRESENTATION FORMATS * digital map

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

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ORGANIZATION'S NAME National Park Service, NERO
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CONTACT INFORMATION ►

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[Hide Citation Contacts ▲](#)

Resource Details ►

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STATUS completed
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SUPPLEMENTAL INFORMATION

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Polygons (Thompson_PEM1_w1, Thompson_PEM1_w2, Thompson_PEM1_w3, Peddocks_PEM1_w1, Grape_PEM1_w1, Grape_PFO1_w1, Grape_PFO1_w2) were created in ArcGIS v.10.x using gps points (collected in the field by P. Sharpe 2014) as

vertices for wetland boundaries.

The polygon feature for Peddocks_PUB3_w1 was created in ArcGIS v.10.x using converted kml after digitizing feature in Google Earth (imagery dated 20150606).

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.0.4322

CREDITS

National Park Service, Natural Resources and Science

ARCGIS ITEM PROPERTIES

* NAME 20160223_boha_wetland_polys
 * SIZE 0.005
 * LOCATION file:///\\INPNEPH103219\C\$\Users\JEFARRELL\Desktop\Projects\Current Projects\BOHA\boha_wetlands\20160223_boha_wetland_polys.shp
 * ACCESS PROTOCOL Local Area Network

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Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

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 * NORTH LATITUDE 4686963.915344
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 CONTACT'S ROLE principal investigator

CONTACT INFORMATION ►

PHONE

VOICE 2678581001

ADDRESS

TYPE

E-MAIL ADDRESS peter_sharpe@nps.gov

[Hide Contact information ▲](#)

POINT OF CONTACT

INDIVIDUAL'S NAME James Farrell
 ORGANIZATION'S NAME DOI National Park Service, Northeast Region Natural Resources and Science
 CONTACT'S POSITION GIS Specialist
 CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

PHONE

VOICE 2155979655

ADDRESS

TYPE

E-MAIL ADDRESS james_farrell@nps.gov

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

MAINTENANCE CONTACT

INDIVIDUAL'S NAME Peter Sharpe
 ORGANIZATION'S NAME National Park Service, NERO
 CONTACT'S POSITION Hydrologist
 CONTACT'S ROLE principal investigator

CONTACT INFORMATION ►

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 ORGANIZATION'S NAME DOI National Park Service, Northeast Region Natural Resources and Science
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 VOICE 2155979655

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 TYPE
 E-MAIL ADDRESS james_farrell@nps.gov

[Hide Contact information ▲](#)

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
- * PROJECTION NAD_1983_UTM_Zone_19N
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 26919
 X ORIGIN -5120900
 Y ORIGIN -9998100
 XY SCALE 450445547.3910538
 Z ORIGIN -100000
 Z SCALE 10000
 M ORIGIN -100000
 M SCALE 10000
 XY TOLERANCE 0.001
 Z TOLERANCE 0.001
 M TOLERANCE 0.001

HIGH PRECISION true
 LATEST WELL-KNOWN IDENTIFIER 26919
 WELL-KNOWN TEXT PROJCS["NAD_1983_UTM_Zone_19N",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",500000.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-69.0],PARAMETER["Scale_Factor",0.9996],PARAMETER["Latitude_Of_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26919]]

REFERENCE SYSTEM IDENTIFIER

* VALUE 26919
 * CODESPACE EPSG
 * VERSION 8.2.6

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME 20160223_boha_wetland_polys
 * OBJECT TYPE composite
 * OBJECT COUNT 8

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME 20160223_boha_wetland_polys
 * FEATURE TYPE Simple
 * GEOMETRY TYPE Polygon
 * HAS TOPOLOGY FALSE
 * FEATURE COUNT 8
 * SPATIAL INDEX TRUE
 * LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ►

SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL feature

[Hide Scope of quality information ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

Polygons (Thompson_PEM1_w1, Thompson_PEM1_w2, Thompson_PEM1_w3, Peddocks_PEM1_w1, Grape_PEM1_w1, Grape_PFO1_w1, Grape_PFO1_w2) were created in ArcGIS v.10.x using gps points (collected in the field by P. Sharpe 2014) as vertices for wetland boundaries.
 The polygon feature for Peddocks_PUB3_w1 was created in ArcGIS v.10.x using converted kml after digitizing feature in Google Earth (imagery dated 20150606).

[Hide Lineage ▲](#)

Geoprocessing history ►

PROCESS

PROCESS NAME
 DATE 2015-03-26 13:24:12
 TOOL LOCATION c:\program files (x86)\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\Merge
 COMMAND ISSUED
 Merge
 GRAP_wetlanddelineation_2014_poly_20150326_cut;PEDD_wetlanddelineation_2014_poly;THOM_wetlanddelineation_2014_poly
 "C:\Users\jefarrell\Desktop\Current Projects\BOHA\boha_wetlands\20150326_boha_wetlands.shp" "ID "ID" true true
 false 9 Long 0 9 ,First,#,GRAP_wetlanddelineation_2014_poly_20150326_cut,ID,-1,-
 1,PEDD_wetlanddelineation_2014_poly,Id,-1,-1,THOM_wetlanddelineation_2014_poly,Id,-1,-1,Notes "Notes" true true
 false 50 Text 0 0 ,First,#,GRAP_wetlanddelineation_2014_poly_20150326_cut,Notes,-1,-
 1,PEDD_wetlanddelineation_2014_poly,Notes,-1,-1,THOM_wetlanddelineation_2014_poly,Notes,-1,-1"
 INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

Distribution ►

DISTRIBUTION FORMAT
 * NAME Shapefile

TRANSFER OPTIONS
 * TRANSFER SIZE 0.005

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT 20160223_boha_wetland_polys ►

* TYPE Feature Class
 * ROW COUNT 8

FIELD FID ►

* ALIAS FID
 * 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.

[Hide Field FID ▲](#)

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.

[Hide Field Shape ▲](#)

FIELD Id ►

* ALIAS ID
 * DATA TYPE Integer
 * WIDTH 9
 * PRECISION 9
 * SCALE 0

[Hide Field Id ▲](#)

FIELD Cow_Class ►

ALIAS Cowardin Wetland Class
 * DATA TYPE String
 * WIDTH 50
 * PRECISION 0
 * SCALE 0
 * FIELD DESCRIPTION
 Cowardin System Habitats for these features.
 Comprehensive classification system of wetlands and deepwater habitats was developed for the U.S. Fish and Wildlife Service (Cowardin et al. 1979).
<http://www.fws.gov/wetlands/data/wetland-codes.html>
 Classification Code Definitions for this feature:

- PEM1 (P - Palustrine, EM - Emergent, 1 - Persistent)
- PFO1 (P - Palustrine, FO - Forested, 1 - Broad-Leaved Deciduous)
- PUB3 (P - Palustrine, UB - Unconsolidated Bottom, 3 - Mud)

[Hide Field Cow_Class ▲](#)

FIELD Comments ▶

- * ALIAS Comments
- * DATA TYPE String
- * WIDTH 150
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

cow_class info and field observation note

[Hide Field Comments ▲](#)

FIELD Wet_Name ▶

- ALIAS Wetland Name
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Delineated wetlands
naming convention - "study area_cow-class_wetland#"

Grape study area includes one PEM1 wetland and two PFO1 wetlands:

- Grape_PEM1_w1
- Grape_PFO1_w1
- Grape_PFO1_w2

Peddocks study area includes one PEM1 wetland and one PUB3 wetland:

- Peddocks_PEM1_w1
- Peddocks_PUB3_w1

Thompson study area includes three PEM1 wetlands:

- Thompson_PEM1_w1
- Thompson_PEM1_w2
- Thompson_PEM1_w3

[Hide Field Wet_Name ▲](#)

FIELD Study_Area ▶

- ALIAS Study Area Name
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

three islands:

- Grape
- Peddocks
- Thompson

[Hide Field Study_Area ▲](#)

FIELD Perimeter ▶

- * ALIAS Perimeter
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

[Hide Field Perimeter ▲](#)

FIELD Area ▶

- * ALIAS Area
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

[Hide Field Area ▲](#)

FIELD Acres ▶

- * ALIAS Acres

* DATA TYPE Double
 * WIDTH 19
 * PRECISION 0
 * SCALE 0

[Hide Field Acres ▲](#)

FIELD Hectares ►

* ALIAS Hectares
 * DATA TYPE Double
 * WIDTH 19
 * PRECISION 0
 * SCALE 0

[Hide Field Hectares ▲](#)

FIELD Comment_2 ►

* ALIAS Comment_2
 * DATA TYPE String
 * WIDTH 200
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION

description of feature creation:

- ALL POLYGONS OTHER THAN PEDDOCKS PUB3 = polygon feature created in ArcGIS v.10.x using gps points collected in field by p. sharpe
- PEDDOCKS PUB3 = polygon feature created in ArcGIS v.10.x using converted kml after digitizing feature in Google Earth (imagery dated 20150606)

[Hide Field Comment_2 ▲](#)

[Hide Details for object 20160223_boha_wetland_polys ▲](#)

[Hide Fields ▲](#)

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 2016-03-02

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
 METADATA STYLE XTools Pro Metadata
 STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2016-02-22 13:48:13
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-03-02 10:59:23

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
 LAST UPDATE 2016-03-02 10:59:23

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2016-02-22 13:48:13
 FROM C:\Users\JEFARRELL\Desktop\Projects\Current Projects\BOHA\boha_wetlands\20150326_boha_wetlands
 TO \\INPNEPH103219\C\$\Users\JEFARRELL\Desktop\Projects\Current Projects\BOHA\boha_wetlands\20150326_boha_wetlandsCopy

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

INDIVIDUAL'S NAME Peter Sharpe
 ORGANIZATION'S NAME National Park Service, NERO
 CONTACT'S POSITION Hydrologist
 CONTACT'S ROLE principal investigator

CONTACT INFORMATION ►

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ADDRESS

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METADATA CONTACT

INDIVIDUAL'S NAME James Farrell

ORGANIZATION'S NAME DOI National Park Service, Northeast Region Natural Resources and Science

CONTACT'S POSITION GIS Specialist

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

PHONE

VOICE 2155979655

ADDRESS

TYPE

E-MAIL ADDRESS james_farrell@nps.gov[Hide Contact information ▲](#)[Hide Metadata Contacts ▲](#)**Metadata Maintenance ►**

MAINTENANCE

UPDATE FREQUENCY not planned

[Hide Metadata Maintenance ▲](#)**Metadata Constraints ►**

CONSTRAINTS

LIMITATIONS OF USE

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[Hide Metadata Constraints ▲](#)**Thumbnail and Enclosures ►**

THUMBNAIL

THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)**FGDC Metadata (read-only) ▼**

Boston Harbor Islands National Recreation Area Wetland Study boundary (14-15 October 2014)

Shapefile



Tags

Wetlands, NPS, National Park Service, Boston Harbor Islands National Recreation Area, BOHA, Massachusetts

Summary

The purpose was to provide detailed wetland/aquatic resource identification and boundary information for three wetland systems located on Thompson, Grape, and Peddocks Islands within BOHA.

Description

The objective of this investigation was to respond to a request for regional assistance for a comprehensive delineation of wetland habitats subject to jurisdiction under Section 404 of the Clean Water Act and all wetlands subject to National Park Service (NPS) procedures for implementing Director's Order #77-1: Wetland Protection at three wetlands sites located on Thompson, Grape, and Peddocks Islands within Boston Harbor Islands National Park Area (BOHA). This work utilized the U.S Army Corps of Engineers (USACE) Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northeast and Northcentral Region (January 2012) as the primary methodology for making wetland determinations in the field. A total of 3 palustrine wetlands encompassing 4.50 acres of land were identified and delineated from 14-15 October 2014 within the three islands area (Fig. 1). Observed wetland ecosystems were primarily the following habitats: palustrine, emergent, persistent, (PEM1); palustrine forested, broad leaved deciduous (PFO1); palustrine, unconsolidated bottom, mud (PUB3) These sites were specifically chosen by National Park Service (NPS) and US Forest Service Scientists (USFS) staff as research locations for an invasive plant removal study and this work was performed to identify the regulatory wetland boundaries and facilitate the acquisition of any compliance documents under Section 404 and DO #77.1 purview. All of the identified and mapped palustrine wetland systems encountered during the October 2014 investigation met both the U.S. Army Corps of Engineers criteria and the Cowardin et al. (1979) definitions of wetland habitat. No new riverine wetland systems were identified and mapped over the course of this investigation.

Credits

National Park Service, Natural Resources and Science

Use limitations

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Extent

West -71.010886 **East** -70.919641
North 42.318967 **South** 42.266691

Scale Range

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

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE boundaries, inlandWaters

* CONTENT TYPE Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

THEME KEYWORDS Wetland

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE Boston Harbor Islands National Recreation Area Wetland Study boundary (14-15 October 2014)
CREATION DATE 2014-10-15 00:00:00
PUBLICATION DATE 2016-02-23 00:00:00

PRESENTATION FORMATS * digital map

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

INDIVIDUAL'S NAME Peter Sharpe
ORGANIZATION'S NAME National Park Service, NERO
CONTACT'S POSITION Hydrologist
CONTACT'S ROLE principal investigator

CONTACT INFORMATION ►

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VOICE 2678581001

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E-MAIL ADDRESS peter_sharpe@nps.gov

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RESPONSIBLE PARTY

INDIVIDUAL'S NAME James Farrell
ORGANIZATION'S NAME DOI National Park Service, Northeast Region Natural Resources and Science
CONTACT'S POSITION GIS Specialist
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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VOICE 2155979655

ADDRESS

E-MAIL ADDRESS james_farrell@nps.gov

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES * English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed
SPATIAL REPRESENTATION TYPE * vector

SUPPLEMENTAL INFORMATION

Pink wetland delineation flags were marked with a unique alpha numeric code and hung at regular intervals around the perimeter of each identified wetland habitat and located using a sub-meter accurate GPS system. Representative wetland test pits were also similarly flagged and located. GPS-based coordinates were collected for wetland test pit and boundary flags between 14-15 October 2014, using a Trimble GeoXT receiver with an external Hurricane antenna in datum NAD83, UTM – zone 19N, meter coordinates and TerraSync software. A minimum of 4 satellite vehicles were tracked. Where possible a maximum Position Dilution of Precision (PDOP) of 6 was maintained for each set and a minimum of 50 positions were taken at each point feature were possible. The data were post-processed and differentially corrected using Pathfinder Office 5.30 and base data downloaded from the MAMI MILTON CORS station located in Milton, MA. The data were then exported to shapefile format. Following this procedure we have estimated accuracies in the X and Y direction of 0 to 5 meters, using the above standards while selective availability (SA) is set to zero. No tests were done to confirm the X/Y direction accuracy during this investigation.

This study boundary feature generally describes the three areas researched for wetland delineation. The feature dataset was derived from the delineated wetland boundary polygons, buffered by 50ft (using ArcToolbox v.10.3) and merged to create three study areas (Grape, Peddocks, Thompson) as one cumulative boundary.

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.0.4322

CREDITS

National Park Service, Natural Resources and Science

ARCGIS ITEM PROPERTIES

* NAME 20160302_boha_wetland_study_boundary
 * SIZE 0.005
 * LOCATION file:///\\INPNEPH103219\C\$\Users\JEFARRELL\Desktop\Projects\Current Projects\BOHA\boha_wetlands\20160302_boha_wetland_study_boundary.shp
 * ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
 * WEST LONGITUDE -71.010886
 * EAST LONGITUDE -70.919641
 * NORTH LATITUDE 42.318967
 * SOUTH LATITUDE 42.266691
 * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 334290.204523
 * EAST LONGITUDE 341686.435501
 * SOUTH LATITUDE 4681342.004339
 * NORTH LATITUDE 4686979.121086
 * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

INDIVIDUAL'S NAME Peter Sharpe
 ORGANIZATION'S NAME National Park Service, NERO
 CONTACT'S POSITION Hydrologist
 CONTACT'S ROLE principal investigator

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

MAINTENANCE CONTACT

INDIVIDUAL'S NAME Peter Sharpe
 ORGANIZATION'S NAME National Park Service, NERO
 CONTACT'S POSITION Hydrologist
 CONTACT'S ROLE principal investigator

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[Hide Resource Maintenance ▲](#)

Resource Constraints ►

CONSTRAINTS

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[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
- * PROJECTION NAD_1983_UTM_Zone_19N
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 26919
X ORIGIN -5120900
Y ORIGIN -9998100
XY SCALE 450445547.3910538
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.001
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 26919

WELL-KNOWN TEXT PROJCS["NAD_1983_UTM_Zone_19N",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",500000.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-69.0],PARAMETER["Scale_Factor",0.9996],PARAMETER["Latitude_Of_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26919]]

REFERENCE SYSTEM IDENTIFIER

* VALUE 26919
 * CODESPACE EPSG
 * VERSION 8.2.6

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME 20160302_boha_wetland_study_boundary
 * OBJECT TYPE composite
 * OBJECT COUNT 3

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME 20160302_boha_wetland_study_boundary
 * FEATURE TYPE Simple
 * GEOMETRY TYPE Polygon
 * HAS TOPOLOGY FALSE
 * FEATURE COUNT 3
 * SPATIAL INDEX TRUE
 * LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ►

SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL feature

[Hide Scope of quality information ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

This study boundary feature generally describes the three areas researched for wetland delineation. The feature dataset was derived from the delineated wetland boundary polygons, buffered by 50ft (using ArcToolbox v.10.3) and merged to create three study areas (Grape, Peddocks, Thompson) as one cumulative boundary.

[Hide Lineage ▲](#)

Geoprocessing history ►

PROCESS

PROCESS NAME

DATE 2015-03-26 13:24:12

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\Merge

COMMAND ISSUED

Merge

```
GRAP_wetlanddelineation_2014_poly_20150326_cut;PEDD_wetlanddelineation_2014_poly;THOM_wetlanddelineation_2014_poly
"C:\Users\jefarrell\Desktop\Current Projects\BOHA\boha_wetlands\20150326_boha_wetlands.shp" "ID "ID" true true
false 9 Long 0 9 ,First,#,GRAP_wetlanddelineation_2014_poly_20150326_cut,ID,-1,-
1,PEDD_wetlanddelineation_2014_poly,Id,-1,-1,THOM_wetlanddelineation_2014_poly,Id,-1,-1,Notes "Notes" true true
false 50 Text 0 0 ,First,#,GRAP_wetlanddelineation_2014_poly_20150326_cut,Notes,-1,-
1,PEDD_wetlanddelineation_2014_poly,Notes,-1,-1,THOM_wetlanddelineation_2014_poly,Notes,-1,-1"
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

Distribution ►

DISTRIBUTION FORMAT

* NAME Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 0.005

[Hide Distribution ▲](#)**Fields ▶**DETAILS FOR OBJECT [20160302_boha_wetland_study_boundary ▶](#)

- * TYPE Feature Class
- * ROW COUNT 3

FIELD [FID ▶](#)

- * ALIAS FID
- * 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.

[Hide Field FID ▲](#)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.

[Hide Field Shape ▲](#)FIELD [Id ▶](#)

- * ALIAS ID
- * DATA TYPE Integer
- * WIDTH 9
- * PRECISION 9
- * SCALE 0

[Hide Field Id ▲](#)FIELD [Study_Area ▶](#)

- ALIAS Study Area
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
three islands:
 - Grape
 - Peddocks
 - Thompson

[Hide Field Study_Area ▲](#)[Hide Details for object 20160302_boha_wetland_study_boundary ▲](#)[Hide Fields ▲](#)**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 2016-03-02

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE XTools Pro Metadata

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2016-02-22 13:48:13

LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-03-02 11:04:10

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2016-03-02 11:02:26

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2016-02-22 13:48:13

FROM C:\Users\JEFARRELL\Desktop\Projects\Current Projects\BOHA\boha_wetlands\20150326_boha_wetlands

TO \\INPNP103219\C\$\Users\JEFARRELL\Desktop\Projects\Current Projects\BOHA\boha_wetlands\20150326_boha_wetlandsCopy

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

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ORGANIZATION'S NAME National Park Service, NERO

CONTACT'S POSITION Hydrologist

CONTACT'S ROLE principal investigator

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METADATA CONTACT

INDIVIDUAL'S NAME James Farrell

ORGANIZATION'S NAME DOI National Park Service, Northeast Region Natural Resources and Science

CONTACT'S POSITION GIS Specialist

CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY not planned

[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG

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FGDC Metadata (read-only) ▼