

APPENDIX C: Pilot Project Unit Summaries and Final Recommended Maps

Section 3(c)(1) of the 2006 Coastal Barrier Resources Reauthorization Act (CBRRA) requires that this final report contain the final recommended digital maps created under the Digital Mapping Pilot Project (pilot project). Section 3(c)(4) of the 2006 CBRRA requires that this report contain a summary and update of the findings of the initial pilot project report required under Section 6(d) of the 2000 CBRRA, which included the extent to which the boundary lines on the digital maps differ from the boundary lines on the original maps.

This appendix contains the final recommended maps for 65 pilot project units as well as a summary of the recommended changes for each of the units. The pilot project maps depict 56 existing John H. Chafee Coastal Barrier Resources System (CBRS) units, eight new units comprised of areas recommended for reclassification from System Unit to Otherwise Protected Area (OPA) status or vice versa, and one recommended new OPA comprised entirely of areas currently not within the CBRS. Chapter 5 of this report summarizes the results of the pilot project and the extent to which the boundary lines on the digital maps differ from the boundary lines on the original maps, including (1) the types of changes to the CBRS boundaries on the pilot project maps; (2) the changes to the pilot project maps that do not affect the CBRS boundaries; and (3) the final recommended acreage, shoreline, and structure changes. Chapter 4 and Appendix E contain a summary of changes to the pilot project maps as a result of the public comments received.

Unit Summaries

The unit summaries in this appendix describe the final recommended changes to the unit boundaries, the associated acreage and shoreline

mile changes, and the number of structures recommended for addition to and removal from the CBRS.

The unit summaries in this appendix contain the following information for each of the pilot project units.

- **Type of Unit:** Indicates whether the CBRS area is a System Unit or an OPA.
- **Location of Unit:** Provides the general location of the CBRS unit.
- **Congressional District:** Provides the Congressional District(s) that the CBRS unit is located within.
- **Date of Final Recommended Map(s):** Provides the date of the final recommended map(s) for the CBRS unit. The Service's final recommended pilot project maps are either dated November 20, 2013, or March 18, 2016.
- **Number of Maps:** Provides the number of final recommended maps depicting the CBRS unit. This number may differ from the number of maps that currently depict the existing unit due to repaving (as described in Chapter 5) and recommended additions to the CBRS.
- **Base Map Imagery Source(s) and Date(s):** Provides the source(s) and date(s) of the underlying aerial imagery used as the base map for the CBRS unit.
- **Establishment of Unit:** Provides the public law number that first established the CBRS unit and the date on which that law was enacted (except in the case of recommended new units). For recommended new units, this section describes the current CBRS status of the area within the unit and the Service's assessment as to whether the area qualifies for inclusion within a System Unit or OPA.
- **Historical Changes to Unit:** Provides a history of changes (if any) to the CBRS unit.
- **Public Comments:** Provides information regarding the 2009 public comment period and where to find a summary of the comments received and the Service's responses.
- **Changes between Proposed and Final Recommended Boundaries:** Describes the changes between the proposed CBRS unit boundaries depicted on the maps included in the initial pilot project report and the final recommended boundaries depicted on the maps included in this appendix. Minor modifications are made to the boundaries of most units in the pilot project. These modifications include the following:
 - better alignment of the boundaries with parcel data;
 - smoothing and simplification of the boundaries (i.e., removing unnecessary detail and refining the boundaries);
 - fitting the boundaries to updated base map imagery (e.g., to better follow roads, wetland/fastland interfaces, vegetative breaks, and shorelines);
 - making the lateral boundaries of the units perpendicular to the shoreline;
 - adjustments to better follow the Service's pilot project protocol on channel mapping (described in Chapter 4 of this report); and
 - adjustments to better follow the Service's updated pilot project protocol on shoreline and development feature buffering (described in Chapter 4 of this report).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

- **Final Recommended Changes to Unit/Final Recommended Unit:** Describes the changes that are recommended to the CBRS unit. For recommended new units, this section describes the areas that are recommended for inclusion within the unit.
- **Acreage, Shoreline, and Structures Table:** Provides acreage and shoreline mile changes, and the number of structures recommended for addition to and removal from the CBRS unit.

Final Recommended Maps

The maps contained in this appendix are reduced versions of the final recommended pilot project maps. Because the maps presented in this report are reduced in size

by approximately 70 percent, the legibility of the maps is significantly reduced. The final recommended maps can be accessed and downloaded from the Service's website at: <http://www.fws.gov/cbra>.

Each map covers roughly the same area as one 7.5-minute USGS topographic quadrangle map and is produced at a scale of 1 to 24,000. All maps are referenced to the North American Datum of 1983 and use the Universal Transverse Mercator projection, Zones 15 through 18. Additional information about the projection and coordinate system is available below the legend on each map.

The existing and final recommended boundaries are delineated on the maps in this appendix as follows:

- **Existing Boundary:** The existing boundary is shown as a solid red line for System Units and a dashed black and red line for OPAs.
- **Final Recommended Boundary:** The final recommended boundary is shown as a solid purple line for System Units and a dashed black and purple line for OPAs.

Where the solid boundary of a System Unit and the dashed boundary of an OPA are coincident, only the System Unit boundary is shown on the map. Where the existing boundary and the final recommended boundary are coincident, only the final recommended boundary is shown on the map.

Table 4. Page Number of Each Unit Summary and Corresponding Final Recommended Map in this Appendix

<i>Unit</i>	<i>County/Parish</i>	<i>Unit Summary Page #</i>	<i>Final Recommended Map(s) Page #</i>	<i>Unit</i>	<i>County/Parish</i>	<i>Unit Summary Page #</i>	<i>Final Recommended Map(s) Page #</i>
Delaware				Florida (continued)			
DE-07*	Sussex	C-4, C-5	C-9	P14A	Broward	C-70	C-71
DE-07P	Sussex	C-6, C-7	C-9	FL-39	Monroe	C-72	C-74
H01	Sussex	C-8	C-9	FL-40	Monroe	C-73	C-74
North Carolina				FL-43	Monroe	C-75	C-78
NC-01	Currituck, Dare	C-10, C-11	C-13	FL-44	Monroe	C-76	C-78
NC-01P*	Currituck	C-12	C-13	FL-45	Monroe	C-77	C-78
NC-05P	Carteret	C-14	C-15	FL-46	Monroe	C-79	C-80
NC-06*	Onslow	C-16, C-17	C-24, C-25	P17A	Lee	C-81	C-85
NC-06P	Onslow, Carteret	C-18, C-19	C-24, C-25	FL-67	Lee	C-82, C-83	C-85
L05	Onslow	C-20, C-21	C-25, C-26	FL-67P*	Lee	C-84	C-85
L06	Onslow	C-22, C-23	C-26, C-27	P21	Charlotte	C-86, C-87	C-90
South Carolina				P21P	Charlotte	C-88, C-89	C-90
M02	Georgetown	C-28	C-30	P22	Sarasota	C-91, C-92	C-93
M03	Georgetown	C-29	C-30	FL-72P	Sarasota	C-94	C-95
Florida				FL-73P	Manatee	C-96	C-100
FL-01*	Nassau	C-31	C-33	FL-78	Manatee	C-97, C-98	C-100
FL-01P	Nassau	C-32	C-33	FL-82	Manatee	C-99	C-100
P04A	St. Johns	C-34, C-35	C-39	FL-80P	Manatee	C-101	C-104
P05	St. Johns	C-36, C-37	C-39	FL-81	Hillsborough	C-102	C-104
P05P	St. Johns	C-38	C-39	FL-81P	Hillsborough	C-103	C-104
P08	Volusia	C-40, C-41	C-43	FL-83	Hillsborough	C-105	C-106
P08P*	Volusia	C-42	C-43	FL-85P	Pinellas	C-107	C-108
FL-13P	Brevard	C-44	C-48	P26	Dixie	C-109	C-110
P09A	Brevard	C-45, C-46	C-48	FL-89	Franklin	C-111, C112	C-113
P09AP*	Brevard	C-47	C-48	FL-93*	Bay	C-114	C-118
P10A	Indian River, St. Lucie	C-49, C-50	C-53	FL-93P	Bay	C-115, C-116	C-118
FL-14P	St. Lucie	C-51, C-52	C-53	FL-94	Walton	C-117	C-118
P11	St. Lucie	C-54, C-55	C-57, C-58	Louisiana			
P11P*	St. Lucie	C-56	C-57	LA-01	St. Bernard	C-119	C-120
FL-15	Palm Beach	C-59	C-63	LA-02	St. Bernard	C-121	C-122
FL-16P	Palm Beach	C-60, C-61	C-63	S04	Lafourche	C-123	C-125
FL-17P	Palm Beach	C-62	C-63	S05	Terrebonne, Lafourche	C-124	C-125, C-126, C-127
FL-18P	Palm Beach	C-64	C-65	S06	Terrebonne	C-128, C-129	C-130, C-131, C-132
FL-19P	Broward	C-66	C-67	S07	Terrebonne, St. Mary	C-133, C-134	C-135, C-136, C-137, C-138
FL-20P	Broward	C-68, C-69	C-71	*Recommended new or reclassified Unit.			

John H. Chafee Coastal Barrier Resources System Unit DE-07, Delaware Seashore, Delaware

Summary of Final Recommended Changes

Type of Unit: Recommended new System Unit

Location of Unit: North of Bethany Beach, in Sussex County, Delaware

Congressional District: At Large

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit DE-07 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2015

Establishment of Unit: Most of the area recommended for inclusion within new System Unit DE-07 is currently within existing Otherwise Protected Area (OPA) Unit DE-07P, which was established by the Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990). The remainder of the area recommended for inclusion within the new unit is currently not within the Coastal Barrier Resources System (CBRS).

The U.S. Fish and Wildlife Service's (Service) review found no documentation indicating that this area is held for conservation and/or recreation (in accordance with the Coastal Barrier Resources Act (CBRA) definition of an OPA). However, all areas within

recommended new Unit DE-07 either qualified as undeveloped coastal barrier at the time they were first included within the CBRS, or for those areas newly added to the CBRS, currently qualify, for inclusion within a System Unit.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit DE-07. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the boundary of the unit is modified to remove from the CBRS about 45 structures in the area within and south of the South Shore Marina community. This area is proposed for reclassification from OPA Unit DE-07P to new System Unit DE-07 on the draft map dated June 12, 2006; however, the Service's assessment indicates that these private properties are appropriate for removal from Unit DE-07P. The boundary of the unit is also modified to include minor portions (an island and an eroding peninsula) of the Delaware Seashore State Park within

Unit DE-07 where it is impractical from a mapping perspective to delineate them as OPA.

Final Recommended Unit: The final recommended map dated March 18, 2016, creates new System Unit DE-07. Included within this new unit are the following areas: large areas of associated aquatic habitat in Rehoboth Bay and Indian River Bay (primarily open water); privately held lands and associated aquatic habitat on the coastal barrier that are outside the Delaware Seashore State Park boundary and currently within OPA Unit DE-07P; associated aquatic habitat adjacent to the Fresh Pond area of the State Park; and the entirety of Beach Cove. Minor portions of the State Park are included within System Unit DE-07 in cases where it is impractical from a mapping perspective to delineate them as OPA.

There are several developed areas within this new unit that are reclassified from an existing OPA to System Unit including: The Chancellery subdivision and a few other privately owned lots located immediately north of the State Park; Zacharias Cove subdivision; and Wharton's Cove subdivision. The Service's assessment indicates that these areas met the CBRA criteria for an undeveloped coastal barrier (16 U.S.C. 3503(g)(1)) at the time they were originally included within the CBRS and therefore are not appropriate for removal.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit DE-07, Delaware Seashore, Delaware (continued)

Acreeage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastand Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	0	0	0	0.0	
Added to the CBRS	194	0	194		0
Removed from the CBRS	0	0	0		0
Reclassified Area	5,164	51	5,113	0.0	
Final Recommended Unit	5,358	51	5,307	0.1	
Net Change	5,358	51	5,307	0.1	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

John H. Chafee Coastal Barrier Resources System Unit DE-07P, Delaware Seashore, Delaware

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: North Bethany Beach, in Sussex County, Delaware

Congressional District: At Large

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit DE-07P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2015

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit DE-07P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the boundary of Unit DE-07P (via notice published in the *Federal Register* (79 FR 21787) on April 17, 2014) to account for shoreline erosion at the tip of Cedar Neck. This modification was made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary

of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit DE-07P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. The boundary of the unit is also modified to include within OPA Unit DE-07P minor portions of private property where it is impractical to delineate them as System Unit. Similarly, minor portions of the Delaware Seashore State Park are included within System Unit DE-07 where it is impractical to delineate them as OPA. A boundary is also added along the shoreline of the excluded area between Units DE-07P and H01, which closes it off at the shoreline and adds nearshore waters to Unit DE-07P.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit DE-07P, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit:

The final recommended map dated March 18, 2016, modifies the boundary of Unit DE-07P to remove from the CBRS numerous private properties and associated structures,

including: five structures within and west of Rehoboth Indian Beach development; about 45 structures within and south of the South Shore Marina community; about 37 structures within Breakwater Beach subdivision; and one structure within Cotton Patch Hills subdivision.

The boundary of the unit is also modified to align with the boundary of Delaware Seashore State Park and to add to the CBRS the State Park's acquisition of the Fresh Pond area. The addition of the Fresh Pond area of the State Park includes a Delmarva Power electrical facility, but because the only prohibition within OPAs is on Federal flood insurance, it will not be affected by its inclusion within the unit. Minor portions of the State Park are included within adjacent System Unit DE-07 where it is impractical to delineate them as OPA. Similarly, minor portions of private property are included within Unit DE-07P where it is impractical to delineate them as System Unit.

Areas that are not within the State Park and are currently within OPA Unit DE-07P, including the open water areas and associated aquatic habitat in Rehoboth Bay and Indian River Bay, and the privately held lands and associated aquatic habitat on the coastal barrier that were undeveloped at the time the unit was established, are recommended for reclassification to System Unit DE-07. The Service's review found no documentation indicating that these areas are held for conservation and/or recreation (in accordance with the Coastal Barrier Resources Act definition of an OPA); however, they do meet the criteria for a System Unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit DE-07P, Delaware Seashore, Delaware (continued)

Acreeage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	7,400	866	6,534	6.8	N/A
Added to the CBRS	699	408	291		1
Removed from the CBRS	78	38	40		88
Reclassified Area	(5,164)	(51)	(5,113)	0.0	
Final Recommended Unit	2,857	1,185	1,672	7.0	
Net Change	(4,543)	319	(4,862)	0.2	(87)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit H01, North Bethany Beach, Delaware

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: North of Bethany Beach, in Sussex County, Delaware

Congressional District: At Large

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit H01 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2015

Establishment of Unit: The Coastal Barrier Resources Act (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit H01.

Historical Changes to Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the southwestern boundary of Unit H01 to remove from the Coastal Barrier Resources System (CBRS) an area that was incorrectly identified as wetlands in 1982.

The U.S. Fish and Wildlife Service (Service) modified the landward boundary of Unit H01 (via notice published in the *Federal Register* (79 FR 21787) on April 17, 2014) to account for erosion and channel migration of an unnamed stream. This modification was made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit H01. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit H01, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit H01 to remove from the CBRS development that was on-the-ground in 1982 as intended by Pub. L. 97-348 (one structure on a parcel south of Cotton Patch Hills subdivision and ten structures in the Bayberry Dunes subdivision). The boundary of the unit is also modified to add to the CBRS associated aquatic habitat in the northwest corner of the unit and follow a portion of the Unit DE-07P boundary, which coincides with the Delaware Seashore State Park boundary.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

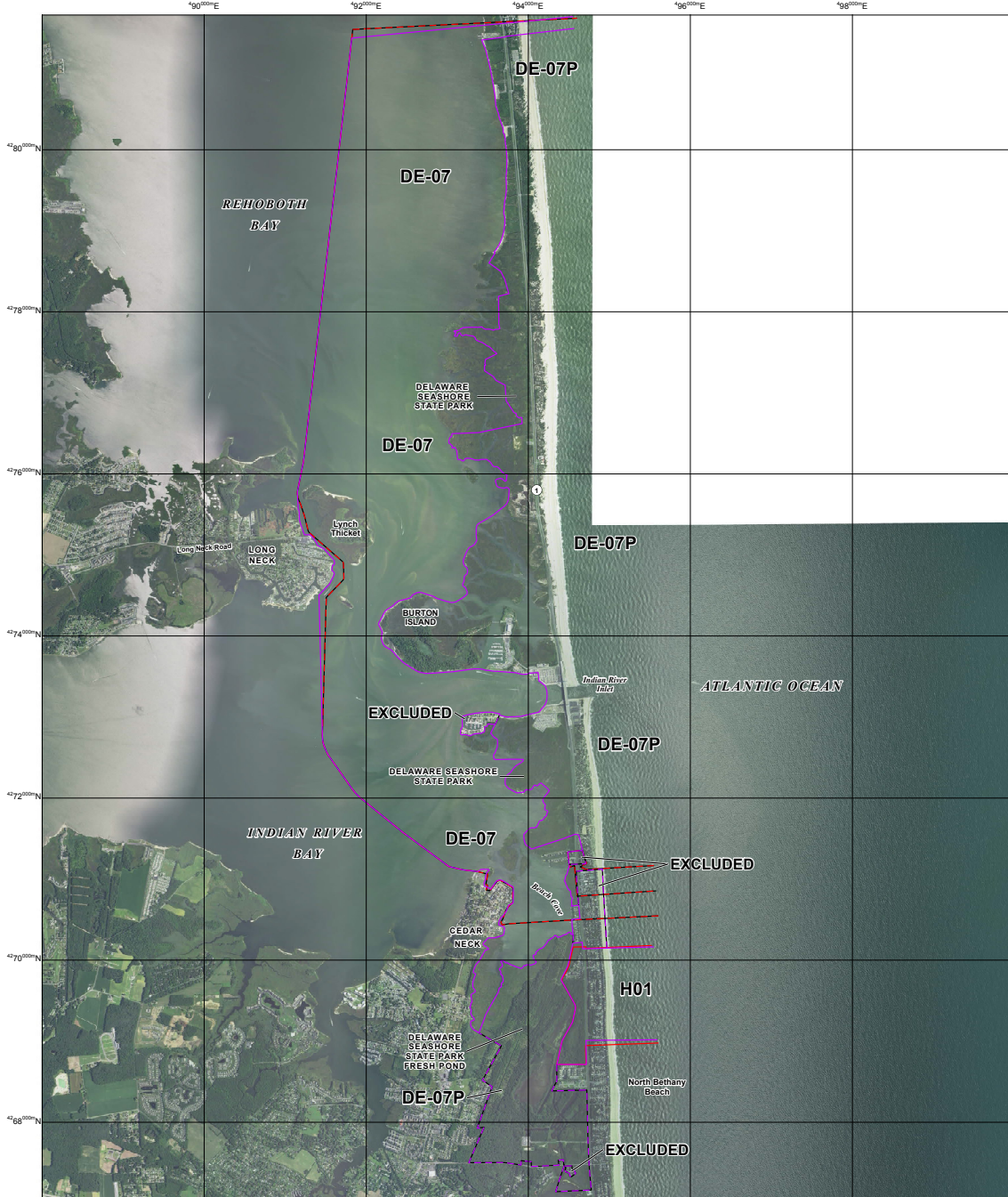
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	171	125	46	0.7	
Added to the CBRS	4	1	3		0
Removed from the CBRS	5	5	0		11
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	170	121	49	0.7	
Net Change	(1)	(4)	3	0.0	(11)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

**Delaware Seashore Unit DE-07/DE-07P
North Bethany Beach Unit H01**

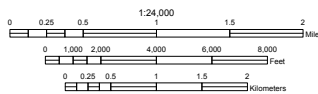
This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.

- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2015
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 18 North



John H. Chafee Coastal Barrier Resources System Unit NC-01, Pine Island Bay, North Carolina

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: North of Duck, in Currituck and Dare Counties, North Carolina

Congressional District: 3

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit NC-01 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2014

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit NC-01 (under this Act the unit was established as Otherwise Protected Area (OPA) Unit NC-01P).

Historical Changes to Unit: Pub. L. 102-440 (enacted on October 23, 1992) modified the boundary of Unit NC-01P to include within the Coastal Barrier Resources System (CBRS) only areas owned by the National Audubon Society (a private conservation organization) and reclassified this unit from Unit NC-01P to Unit NC-01.

Pub. L. 106-332 (enacted on October 19, 2000) further modified the boundary of Unit NC-01 to align with the National Audubon Society's Pine Island Sanctuary (now known as Donal C. O'Brien, Jr. Sanctuary and Audubon Center) property boundary and to add associated aquatic habitat.

The U.S. Fish and Wildlife Service (Service) modified the boundary of Unit NC-01 along the shoreline of the excluded area (via notice published in the *Federal Register* (80 FR 25314) on May 4, 2015) to better follow the shoreline as depicted on an updated base map. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit NC-01. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit NC-01. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. A county-owned water plant was inadvertently included within a proposed addition to the CBRS on the draft map dated June 12, 2006. The minor modification of the boundary of Unit NC-01 to better align with parcel data results in the removal of this plant from the area recommended for addition to the CBRS. In addition, an area within Audubon's Pine Island Sanctuary and Center

(including existing structures and future development as indicated on Audubon's master plan) is now recommended for reclassification from System Unit NC-01 to OPA Unit NC-01P. The remainder of the Sanctuary will remain within System Unit NC-01.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit NC-01, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit NC-01 to better align with the boundary of the Audubon's Pine Island Sanctuary and Center, which results in some small additions and removals. In addition, an area within the Sanctuary (including existing structures and future development as indicated on Audubon's master plan) is reclassified from System Unit NC-01 to OPA Unit NC-01P. The remainder of the Sanctuary will remain within System Unit NC-01.

The properties in Pine Island Reserve subdivision were owned by Audubon when the area was added to the CBRS and, therefore, are not recommended for removal. This area was later sold by Audubon into private ownership and developed.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit NC-01, Pine Island Bay, North Carolina (continued)

Acreage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	7,174	193	6,981	0.4	
Added to the CBRS	15	10	5		0
Removed from the CBRS	2	2	0		0
Reclassified Area	(39)	(20)	(19)	0.0	
Final Recommended Unit	7,148	181	6,967	0.4	
Net Change	(26)	(12)	(14)	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit NC-01P, Pine Island Bay, North Carolina

Summary of Final Recommended Changes

Type of Unit: Recommended new Otherwise Protected Area (OPA)

Location of Unit: North of Duck, in Currituck County, North Carolina

Congressional District: 3

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit NC-01P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2014

Establishment of Unit: Almost all of the area recommended for inclusion within new OPA Unit NC-01P is currently within existing System Unit NC-01, which was established by the Coastal Barrier Improvement Act (CBIA) (Pub. L. 101-591 enacted on November 16, 1990). A minor portion of the area recommended for inclusion within the new unit is currently not within the Coastal Barrier Resources System (CBRS).

Recommended new Unit NC-01P meets the Coastal Barrier Resources Act (CBRA) criteria for an undeveloped coastal barrier

(16 U.S.C. 3503(g)(1)) and is consistent with the CBRA definition of an OPA, which is an area “established under Federal, State, or local law, or held by a qualified organization, primarily for wildlife refuge, sanctuary, recreational, or natural resource conservation purposes” (Section 12 of the CBIA). The area recommended for inclusion within this new unit is maintained for conservation and/or recreation purposes by the National Audubon Society (a private conservation organization).

Public Comments: The U.S. Fish and Wildlife Service (Service) held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit NC-01P because it is a recommended new unit that did not exist at the time of the comment period. For a summary of the comments received on other pilot project units and the Service’s responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

During the preparation of the final recommended maps for the pilot project, the Service found that the three structures in the small excluded area for System Unit NC-01 are now owned by the

National Audubon Society. Following coordination with Audubon, an area within Audubon’s Donal C. O’Brien, Jr. Sanctuary and Audubon Center at Pine Island (including existing structures and future development as indicated on Audubon’s master plan) is reclassified from System Unit NC-01 to OPA Unit NC-01P. The existing excluded area (including three structures) is now recommended for addition to OPA Unit NC-01P. The remainder of the Sanctuary will remain within System Unit NC-01. If the final recommended map for Units NC-01 and NC-01P is adopted through legislation enacted by Congress, Audubon will be eligible for Federal flood insurance for the structures within the OPA that are used in a manner consistent with the purpose for which the area is protected.

Final Recommended Unit: The final recommended map dated March 18, 2016, creates new OPA Unit NC-01P. Included within this new unit are areas owned by the National Audubon Society that are part of the Donal C. O’Brien, Jr. Sanctuary and Audubon Center at Pine Island (including three structures currently within a small excluded area of Unit NC-01, other existing structures, and future development as indicated on Audubon’s master plan).

The Service’s final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acres, Shoreline, and Structures:

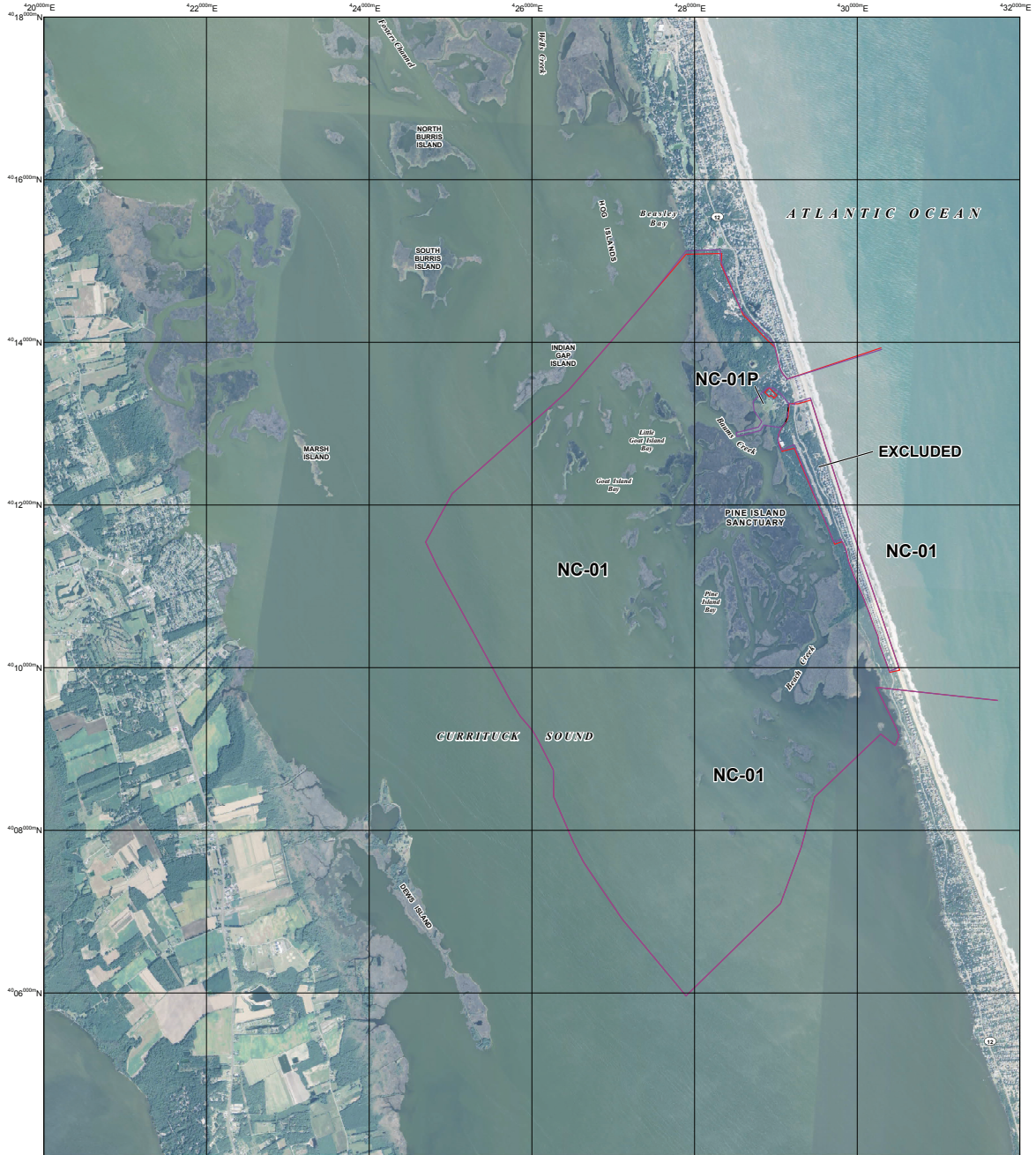
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	0	0	0	0.0	
Added to the CBRS	2	2	0		3
Removed from the CBRS	0	0	0		0
Reclassified Area	39	20	19	0.0	
Final Recommended Unit	41	22	19	0.0	
Net Change	41	22	19	0.0	3

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a “structure” in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



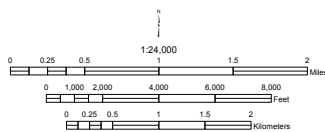
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

Pine Island Bay Unit NC-01/NC-01P

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 2000-meter Universal Transverse Mercator grid values
- Imagery Date(s): 2014
- Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
- Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 18 North

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit NC-05P, Roosevelt Natural Area, North Carolina

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: West of Atlantic Beach, in Carteret County, North Carolina

Congressional District: 3

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit NC-05P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2014

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit NC-05P.

Historical Changes to Unit: Pub. L. 102-440 (enacted on October 23, 1992) modified the boundary of Unit NC-05P to include within the CBRS

only areas owned by the State of North Carolina.

The U.S. Fish and Wildlife Service (Service) modified the northern boundary of Unit NC-05P (via notice published in the *Federal Register* (80 FR 25314) on May 4, 2015) to account for erosion along the shoreline of Bogue Sound. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit NC-05P. These minor modifications may

include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit NC-05P, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit NC-05P to align with the boundaries of Theodore Roosevelt Natural Area and North Carolina Aquarium at Pine Knoll Shores, both of which are owned by the State of North Carolina, and to extend the unit approximately one mile off-shore into Bogue Sound.

The Service's final recommended map dated March 18, 2016, depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acree, Shoreline, and Structures:

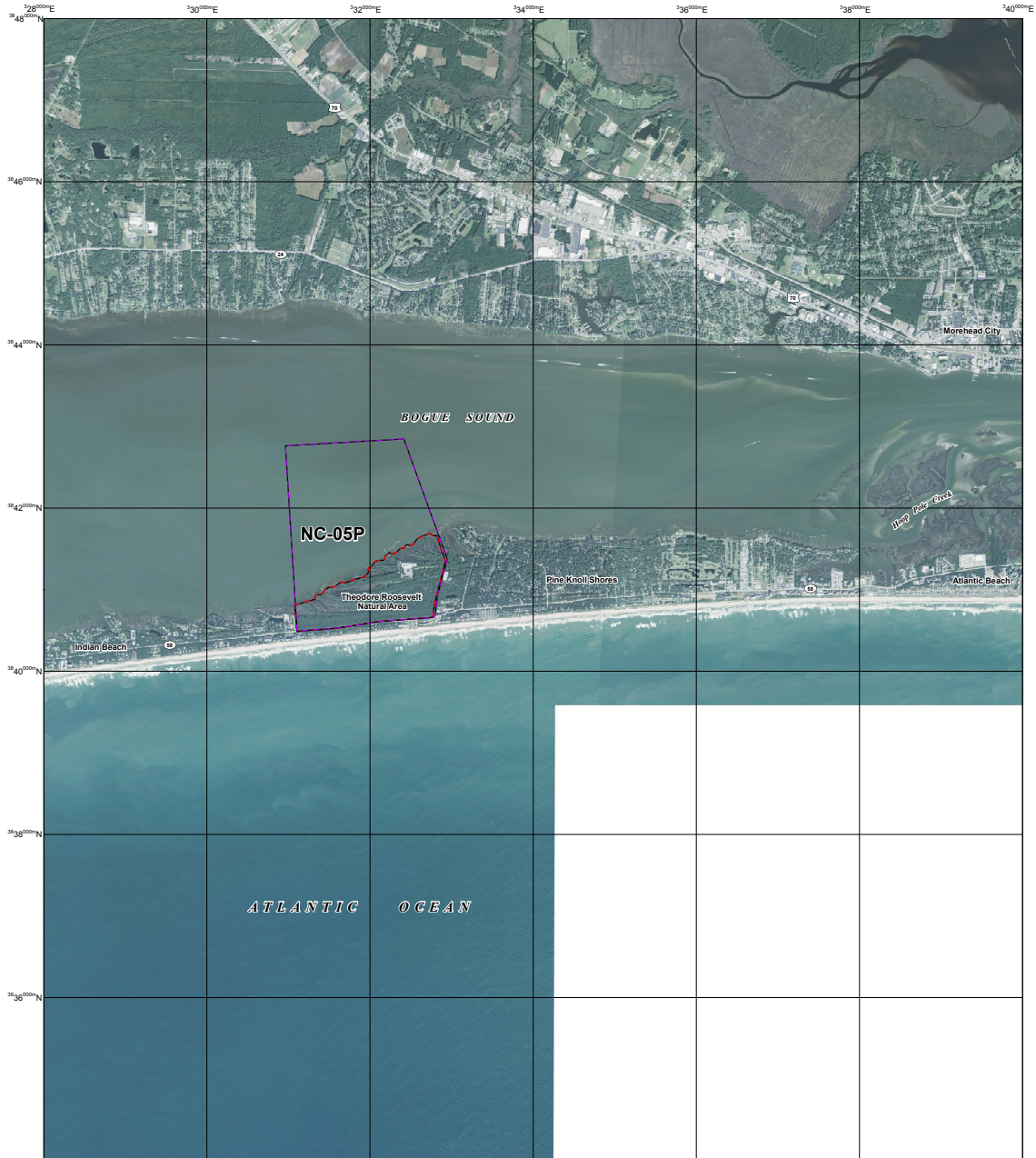
	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	295	182	113	0.0	
Added to the CBRS	650	3	647		0
Removed from the CBRS	1	1	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	944	184	760	0.0	
Net Change	649	2	647	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

Roosevelt Natural Area Unit NC-05P

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

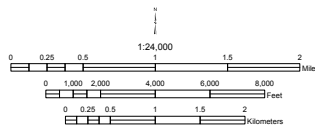
The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.

- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 36°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2014
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 18 North

Pilot Project Draft Map 3 March 18, 2016



Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit NC-06, Hammocks Beach, North Carolina

Summary of Final Recommended Changes

Type of Unit: Recommended new System Unit

Location of Unit: East of Jacksonville, in Onslow County, North Carolina

Congressional District: 3

Date of Final Recommended Maps: March 18, 2016

Number of Maps: Unit NC-06 is depicted on two maps.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2014

Establishment of Unit: The majority of the area recommended for inclusion within new System Unit NC-06 is currently within existing Otherwise Protected Area (OPA) Unit NC-06P, which was established by the Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990). The remainder of the area recommended for inclusion within the new unit is currently not within the Coastal Barrier Resources System (CBRS).

The U.S. Fish and Wildlife Service's (Service) review found no documentation indicating that this area is held for conservation and/or recreation (in accordance

with the Coastal Barrier Resources Act (CBRA) definition of an OPA). However, all areas within recommended new Unit NC-06 either met at the time they were first included within the CBRS, or for those areas newly added to the CBRS, currently meet, the CBRA criteria for a System Unit.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit NC-06. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, modifications are made to the boundary of Unit NC-06 along the coincident boundaries with Units NC-06P and L05 to account for geomorphic change around Bear Island and Bear Inlet. Small areas of associated aquatic habitat are added to the unit along the mouth of Queen Creek and near the Highway 24 bridge over the White Oak River.

An area behind Emerald Isle (from the eastern side of Main Channel to the Highway 58 bridge over Bogue Sound) was proposed for addition to the eastern part of Unit NC-06 on the draft map dated June 12, 2006. The eastern boundary of the unit is modified so that this area is no longer included within the area recommended for addition to the CBRS. This boundary modification is based on an updated protocol for the addition of associated aquatic habitat behind a developed barrier to the CBRS (see Issue 14 in Chapter 4 of the Service's 2016 *Final Report to Congress*).

Final Recommended Unit: The final recommended map dated March 18, 2016, creates new System Unit NC-06. Included within this new unit are the following areas: the dynamic undeveloped spits located at the eastern end of Bear Island and the western end of Emerald Isle; associated aquatic habitat and small undeveloped islands located landward of Bear Island; and the entire width of Bogue Inlet, Main Channel, and the Intracoastal Waterway. Minor portions of Hammocks Beach State Park are included within Unit NC-06 in cases where it was impractical from a mapping perspective to delineate them as OPA.

The Service's final recommended maps depict changes to the CBRS that will only become effective if the updated maps are adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit NC-06, Hammocks Beach, North Carolina (continued)

Acreeage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	0	0	0	0.0	
Added to the CBRS	1,219	11	1,208		0
Removed from the CBRS	0	0	0		0
Reclassified Area	5,417	170	5,247	0.0	
Final Recommended Unit	6,636	181	6,455	1.4	
Net Change	6,636	181	6,455	1.4	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit NC-06P, Hammocks Beach, North Carolina

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: East of Jacksonville, in Onslow and Carteret Counties, North Carolina

Congressional District: 3

Date of Final Recommended Maps: March 18, 2016

Number of Maps: Unit NC-06P is depicted on two maps.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2014

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit NC-06P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the northern lateral boundary of Unit NC-06P (via notice published in the *Federal Register* (80 FR 25314) on May 4, 2015) to reflect natural changes that have occurred to Bear Island and Bogue Inlet. A portion of the southern lateral boundary of the unit was modified to reflect the current location of Sanders Creek. The location of the shoals in Bear Inlet has been dynamic, and so has the location of the Bear Inlet channel. Additionally, the southern lateral boundary of the unit is coincident with Unit L05. The boundary in this area was simply generalized, and the geomorphic features of

the inlet at the time were not used to determine the placement of the boundary. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit NC-06P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, modifications are made to the boundary of Unit NC-06P along the coincident boundaries with Units NC-06 and L05 to account for geomorphic change around Bear Island and Bear Inlet.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit NC-06P, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in

the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit:

The final recommended maps dated March 18, 2016, modify the boundary of Unit NC-06P to create three discrete segments of the unit, including two areas of Hammocks Beach State Park that were already included within Unit NC-06P, and to add to the CBRS a portion of Hammocks Beach State Park on the mainland that was not already within the unit.

The following areas currently within OPA Unit NC-06P are recommended for reclassification to recommended new System Unit NC-06: private undeveloped parcels and associated aquatic habitat that are outside of Hammocks Beach State Park. The Service's review found no documentation indicating that these areas are held for conservation and/or recreation (in accordance with the Coastal Barrier Resources Act definition of an OPA); however, they do qualify for inclusion as a System Unit.

Minor portions of private property or open water not held for conservation and/or recreation are included within Unit NC-06P where it is impractical to delineate them as System Unit. Similarly, minor portions of Hammocks Beach State Park, including the dynamic undeveloped spit located at the eastern end of Bear Island, are included within System Unit NC-06 where it is impractical to delineate them as OPA.

The Service's final recommended maps depict changes to the CBRS that will only become effective if the updated maps are adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit NC-06P, Hammocks Beach, North Carolina (continued)

Acreage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	6,545	940	5,605	4.2	
Added to the CBRS	35	31	4		5
Removed from the CBRS	0	0	0		0
Reclassified Area	(5,418)	(170)	(5,248)	0.0	
Final Recommended Unit	1,162	801	361	3.2	
Net Change	(5,383)	(139)	(5,244)	(1.0)	5

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

John H. Chafee Coastal Barrier Resources System Unit L05, Onslow Beach Complex, North Carolina**Summary of Final Recommended Changes**

Type of Unit: System Unit

Location of Unit: Southeast of Jacksonville, in Onslow County, North Carolina

Congressional District: 3

Date of Final Recommended Maps: March 18, 2016 (northern segment of Unit L05) and November 20, 2013 (southern segment of Unit L05)

Number of Maps: Unit L05 is depicted on two maps.

Base Map Imagery Sources

and Dates: U.S. Department of Agriculture, National Agriculture Imagery Program, 2014 (northern segment of unit); State of North Carolina, 2010, and U.S. Department of Agriculture, National Agriculture Imagery Program, 2012 (southern segment of unit)

Establishment of Unit: The Coastal Barrier Resources Act (CBRA) (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit L05.

Historical Changes to Unit: The boundary of Unit L05 was transferred and fitted to an updated base map through the Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990). No modifications were made to the boundary of the unit at that time.

The U.S. Fish and Wildlife Service (Service) modified the southern lateral boundary of the southern segment of Unit L05 (via notice published in the *Federal Register* (80 FR 25314) on May 4, 2015) to follow the center of New River Inlet up the New River channel. The boundary of the unit was also modified due to channel migration along Wards Channel through to its junction with New River. In the northern segment of the unit, the northern

lateral boundary was modified to follow the center of Shackelfoot Channel and Sanders Creek through to its junction with Bear Inlet. The location of the shoals in Bear Inlet has been dynamic, and so has the location of the Bear Inlet channel. Additionally, the northern lateral boundary of the unit is coincident with Unit NC-06P. The boundary in this area was simply generalized, and the geomorphic features of the inlet at the time were not used to determine the placement of the boundary. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit L05. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit L05. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, modifications are made to the boundary of Unit L05 along the coincident boundaries with Units NC-06 and NC-06P to account for geomorphic change around Bear Island and Bear Inlet. Modifications are also made along the landward boundary of the unit to include additional areas of associated aquatic habitat located northwestward of the Intracoastal Waterway.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit L05, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit:

The final recommended maps dated November 20, 2013, and March 18, 2016, modify the boundary of Unit L05 to add to the CBRS associated aquatic habitat located on both sides of the Intracoastal Waterway and undeveloped spoil islands.

The Service's final recommended maps depict changes to the CBRS that will only become effective if the updated maps are adopted through legislation enacted by Congress.

Additional Comments: The date of the final recommended map for the southern segment of this unit, November 20, 2013, differs from the map date for most of the units in the pilot project. This is because adjacent Unit L06 was the subject of legislation (H.R. 187) during the 113th Congress, and the Service's final recommended maps for that unit (one of which also contains a portion of Unit L05) were transmitted to Congress on April 8, 2014, as part of testimony for a hearing before the House Natural Resources Subcommittee on Fisheries, Wildlife, Oceans and Insular Affairs.

The existing CBRS boundary for Unit L05 depicted on the final recommended map dated November 20, 2013, has been superseded by the boundary depicted on a revised map dated August 1, 2014, to reflect changes that have occurred as a result of natural forces. Please see the map dated August 1, 2014 on the Service's website at: www.fws.gov/cbra for information regarding the current location of the boundary of Unit L05.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit L05, Onslow Beach Complex, North Carolina (continued)

Acreage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	3,010	545	2,465	10.4	
Added to the CBRS	3,502	75	3,427		0
Removed from the CBRS	0	0	0		0
Reclassified Area	1	0	1	0.0	
Final Recommended Unit	6,513	620	5,893	10.5	
Net Change	3,503	75	3,428	0.1	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

John H. Chafee Coastal Barrier Resources System Unit L06, Topsail, North Carolina

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of Jacksonville, in Onslow County, North Carolina

Congressional District: 3

Date of Final Recommended Maps: November 20, 2013

Number of Maps: Unit L06 is depicted on two maps.

Base Map Imagery Sources and Dates:

State of North Carolina, 2010, and U.S. Department of Agriculture, National Agriculture Imagery Program, 2012

Establishment of Unit: The Coastal Barrier Resources Act (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit L06.

Historical Changes to Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the boundary of Unit L06 to include new areas within the Coastal Barrier Resources System (CBRS).

The U.S. Fish and Wildlife Service (Service) modified the landward boundary of Unit L06 (via notice published in the *Federal Register* (80 FR 25314) on May 4, 2015) to reflect natural changes that occurred in the configuration of the marsh, wetland/fastland interface, and the location of New River Inlet. Due to the dynamic nature of the New River Inlet and the adjacent barrier island to the northeast of the unit, the boundary through the inlet was modified and generalized to account for conditions at the time and the potential for future change. These modifications were made in accordance with Section 3

of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John. H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit L06. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the boundary of the unit is modified to include additional areas of associated aquatic habitat located landward of the Intracoastal Waterway, and to include the entire width of the Intracoastal Waterway within the CBRS. The boundary of the northern excluded area is modified to better follow the break-in-development at the time this portion of the unit was established, and to better follow the current location of the shoreline, which has eroded significantly.

In the course of reviewing the existing boundary of Unit L06, it was determined that the Service had incorrectly depicted the existing southern lateral boundary of the unit on the draft map for the pilot project dated June 12, 2006. The existing boundary is actually located approximately 75 feet further southwest than is shown on that map. Because the Service recommends no change to the boundary of Unit L06 in that

location, the final recommended boundary has been adjusted by 75 feet southwest to the actual location of the existing boundary. No structures are affected by this correction to the placement of the existing boundary for Unit L06.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit L06, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit:

The final recommended maps dated November 20, 2013, modify the boundary of Unit L06 to remove several private properties from the CBRS, including: about 41 structures along Waterway Drive in the vicinity of Alligator Bay; about 30 structures at the northern end of North Topsail Beach (which are now included within the northern excluded area); five structures along Shell Drive in the vicinity of Chadwick Bay; and two structures on the mainland in the vicinity of Turkey Creek.

The boundary of Unit L06 is also modified to add to the CBRS areas of associated aquatic habitat and the entire width of the Intracoastal Waterway. Small areas of wetlands and undeveloped areas of fastland are recommended for addition to the CBRS along both excluded areas.

The Service's final recommended maps depict changes to the CBRS that will only become effective if the updated maps are adopted through legislation enacted by Congress.

Additional Comments: The date of the final recommended maps for this unit, November 20, 2013, differs from the map date for most of the units in the pilot project. This is

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit L06, Topsail, North Carolina (continued)

because Unit L06 was the subject of legislation (H.R. 187) during the 113th Congress, and the Service's final recommended maps for this unit were transmitted to Congress on April 8, 2014, as part of testimony

for a hearing before the House Natural Resources Subcommittee on Fisheries, Wildlife, Oceans and Insular Affairs.

The existing CBRS boundary for Unit L06 depicted on the final recommended map dated November 20, 2013, has been superseded by the boundary depicted on a revised

map dated August 1, 2014, to reflect changes that have occurred as a result of natural forces. Please see the map dated August 1, 2014, on the Service's website at: www.fws.gov/cbra for information regarding the current location of the boundary of Unit L06.

Acreage, Shoreline, and Structures:

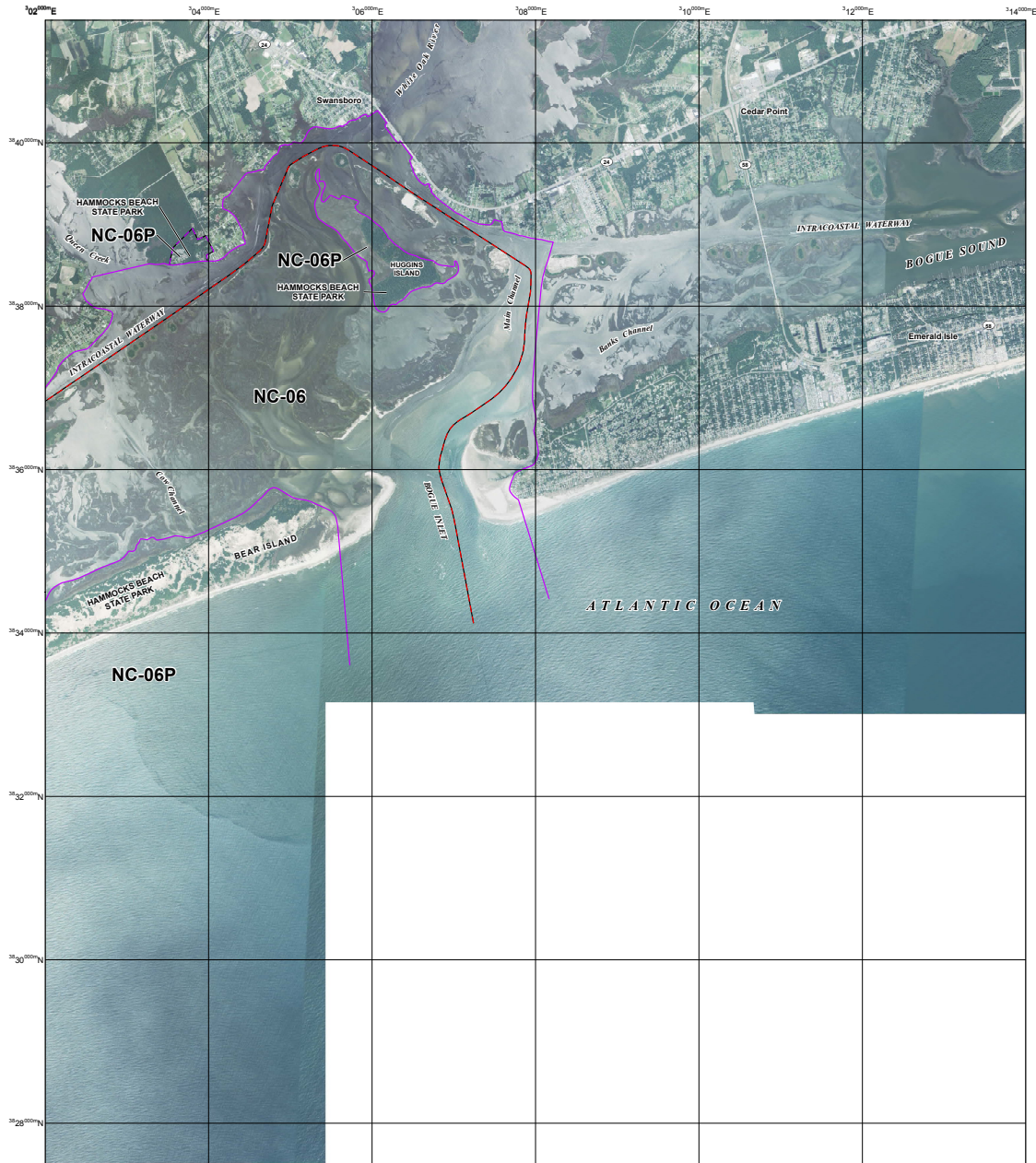
	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	5,785	801	4,984	6.8	
Added to the CBRS	169	4	165		0
Removed from the CBRS	89	64	25		78
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	5,865	741	5,124	6.6	
Net Change	80	(60)	140	(0.2)	(78)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries

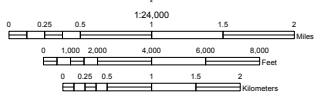


JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM
Hammocks Beach Unit NC-06/NC-06P (1 of 2)

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-228).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

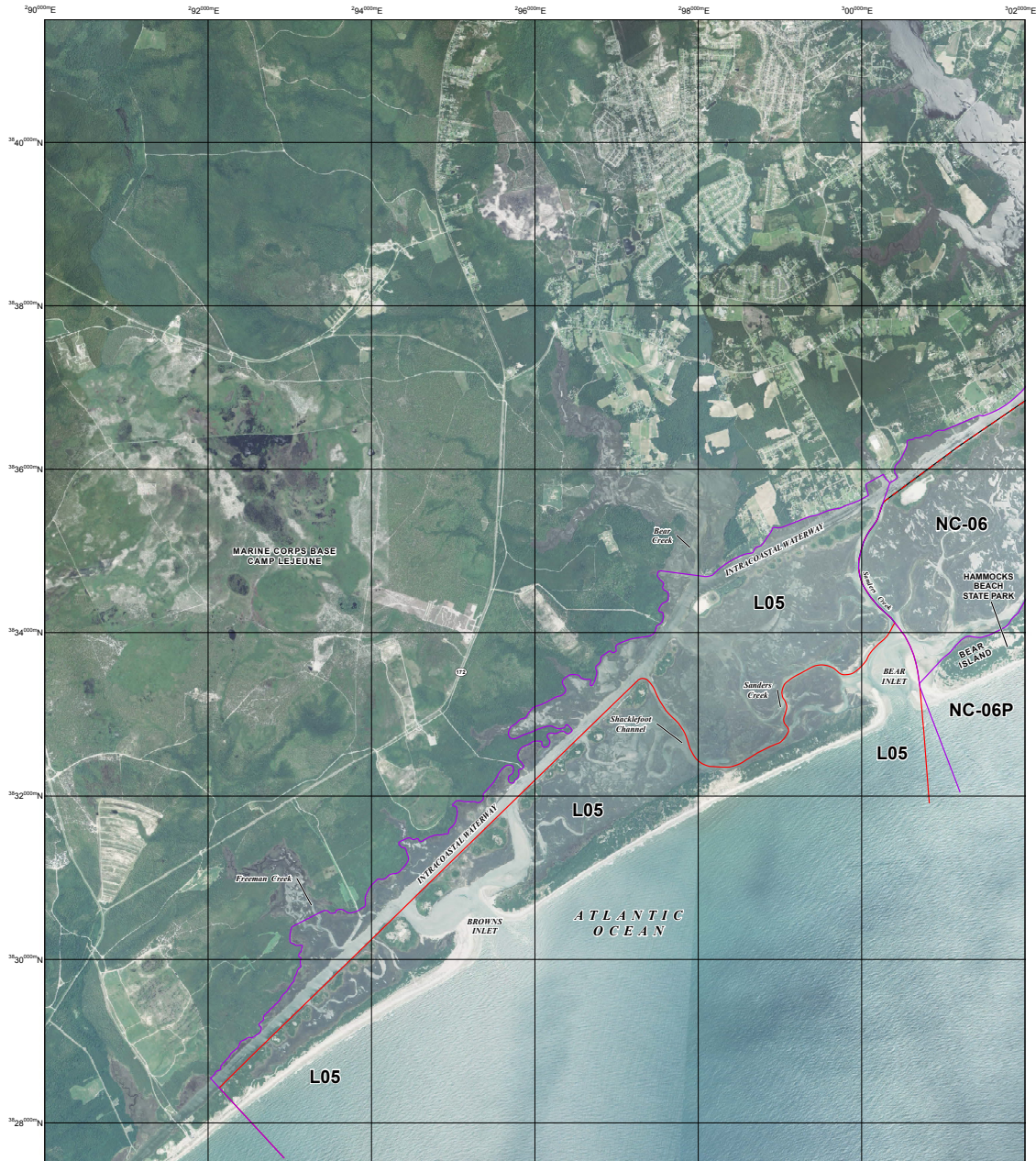
For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2015
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 18 North

Existing and Final Recommended Boundaries



JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

**Hammocks Beach Unit NC-06/NC-06P (2 of 2)
Onslow Beach Complex L05 (1 of 2)**

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-228).

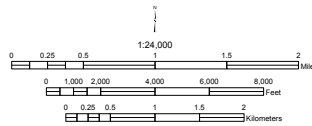
The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.

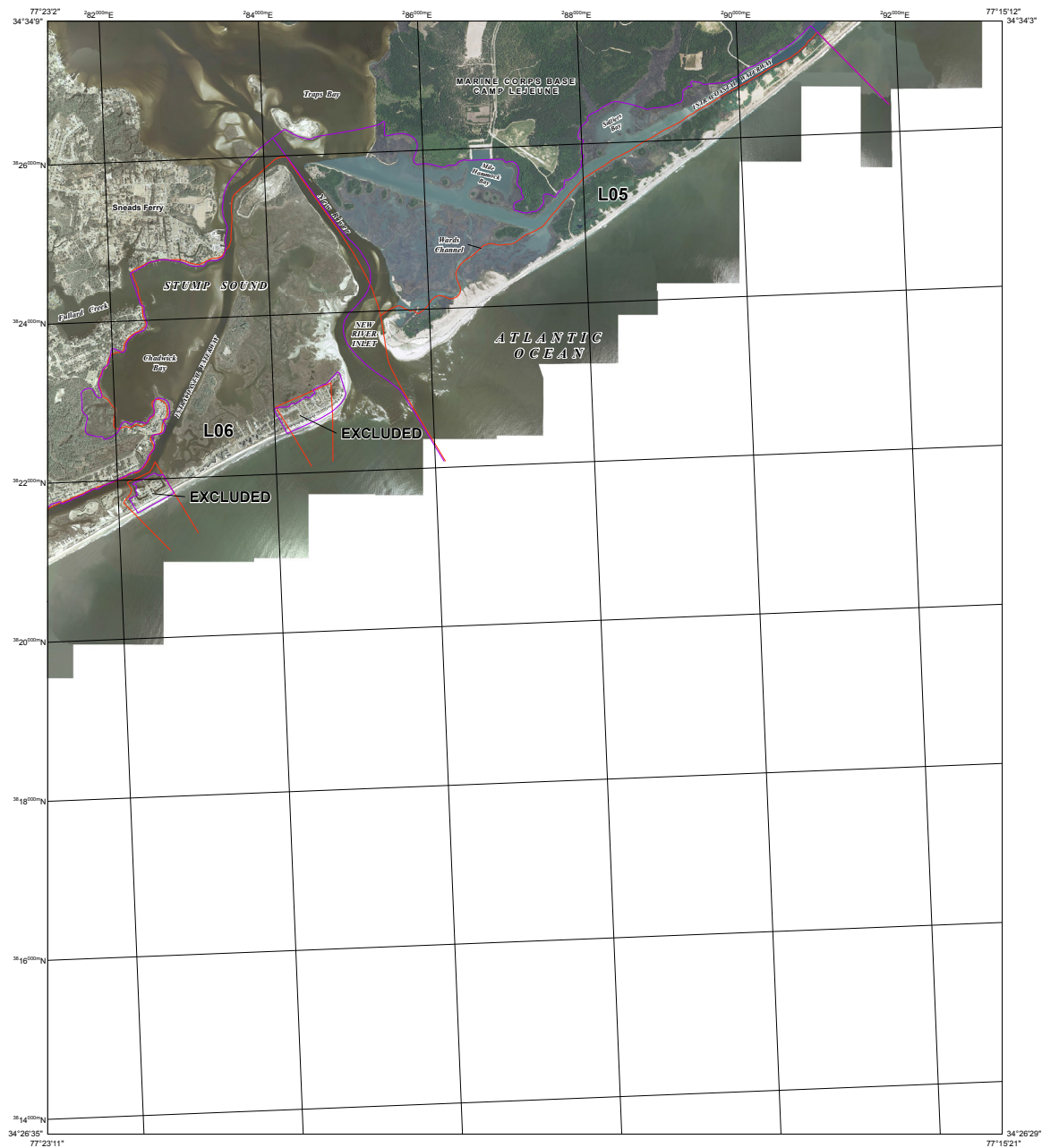
- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- \varnothing 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2014
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 18 North

Pilot Project Draft Map 5 March 18, 2016



Existing and Final Recommended Boundaries



JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

**Onslow Beach Complex L05 (2 of 2)
Topsail Unit L06 (1 of 2)**

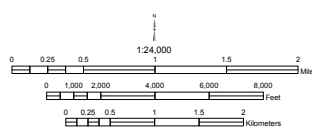
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary, OPAs are identified on the map by the letter "F" following the unit number
- Existing System Unit Boundary (approximate)*
- Existing OPA Boundary (approximate)*

*2000-meter Universal Transverse Mercator grid values, Zone 18 North
 90°45'0" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
 Imagery Date(s): 2010 and 2012
 Imagery Source(s): State of North Carolina and United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 North Carolina Statewide Mapping System Lambert Conformal Conic Projection

November 20, 2013

This draft map was produced by the U.S. Fish and Wildlife Service to show the Service's final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Pub. L. 109-228).

*The "Existing Boundary" shown on this map was digitized to approximately represent the location of the center of the roughly 80-100 foot thick controlling boundaries shown on the current official CBRs map for the area. The "Existing Boundary" has not been fit to the new underlying base map imagery, and should not be relied on as the official CBRs boundaries for this area. The official CBRs map for this area is available for viewing and download at www.fws.gov/cbrs.



Existing and Final Recommended Boundaries

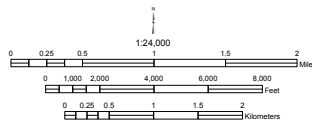


JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

Topsail Unit L06 (2 of 2)

This draft map was produced by the U.S. Fish and Wildlife Service to show the Service's final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Pub. L. 109-226).

*The "Existing Boundary" shown on this map was digitized to approximately represent the location of the center of the roughly 80-100 foot thick controlling boundaries shown on the current official CBRS map for the area. The "Existing Boundary" has not been fit to the new underlying base map imagery, and should not be relied on as the official CBRS boundaries for this area. The official CBRS map for this area is available for viewing and download at www.fws.gov/cbrs.



- Final Recommended System Unit Boundary
 - Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
 - Existing System Unit Boundary (approximate)
 - Existing OPA Boundary (approximate)
- 2000-meter Universal Transverse Mercator grid values, Zone 18 North
 Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
 Imagery Date(s): 2010 and 2012
 Imagery Source(s): State of North Carolina and United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 North Carolina Statewide Mapping System Lambert Conformal Conic Projection
- November 20, 2013**

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit M02, Litchfield Beach, South Carolina

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: Northeast of Georgetown, in Georgetown County, South Carolina

Congressional District: 7

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit M02 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2015

Establishment of Unit: The Coastal Barrier Resources Act (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit M02.

Historical Changes to Unit: The boundary of Unit M02 was transferred and fitted to an updated base map through the Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990). No modifications were made to the boundary of the unit at that time.

The U.S. Fish and Wildlife Service (Service) modified the landward boundary of Unit M02 (via notice published in the *Federal Register* (79 FR 21787) on April 17, 2014) to account for channel migration along Clubhouse Creek, wetlands loss, and the accretion of the Litchfield Beach sand spit and associated shoals. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit M02. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data,

smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the northern boundary is moved back to its original 1982 position to avoid adding four private properties (including two houses constructed in 1999 and 2000 that did not appear on the 1999 underlying aerial imagery used for the draft map dated June 12, 2006).

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit M02, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit M02 to include portions of Clubhouse Creek channel in the unit and to add to the CBRS associated aquatic habitat between the coastal barrier and the mainland.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	110	28	82	1.2	
Added to the CBRS	331	0	331		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	441	28	413	1.2	
Net Change	331	0	331	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier; but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit M03, Pawleys Inlet, South Carolina

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: East of Georgetown, in Georgetown County, South Carolina

Congressional District: 7

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit M03 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2015

Establishment of Unit: The Coastal Barrier Resources Act (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit M03.

Historical Changes to Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the boundary of Unit M03 to add to the Coastal Barrier Resources System (CBRS) associated aquatic habitat.

The U.S. Fish and Wildlife Service (Service) modified the boundary of Unit M03 (via notice published in the *Federal Register* (79 FR 21787) on

April 17, 2014) to include emergent marsh, account for channel migration at the north end of the unit, and reflect natural changes to the wetland/fastland interface on the landward side of the unit. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit M03. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the northern boundary of the unit is adjusted to the south by approximately 20 feet to place it in the same location as the original 1982 boundary; the landward boundary is substantially revised to better follow the wetland/fastland interface and to

add to the CBRS wetland areas; and, the southern boundary is modified to follow the west side of Beach Bridge Road, adding a small area of undeveloped uplands.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit M03, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit M03 to include the entire width of the channel of a stream between Pawleys Island and the mainland, to add to the CBRS wetland areas, and to follow more precisely the wetland/fastland interface on the landward side of the unit. The boundary of the unit is also modified to align with the southern property parcel line of a large undeveloped parcel that is already mostly within the unit. This change puts the entire property (including a small area of fastland) within the CBRS.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acres, Shoreline, and Structures:

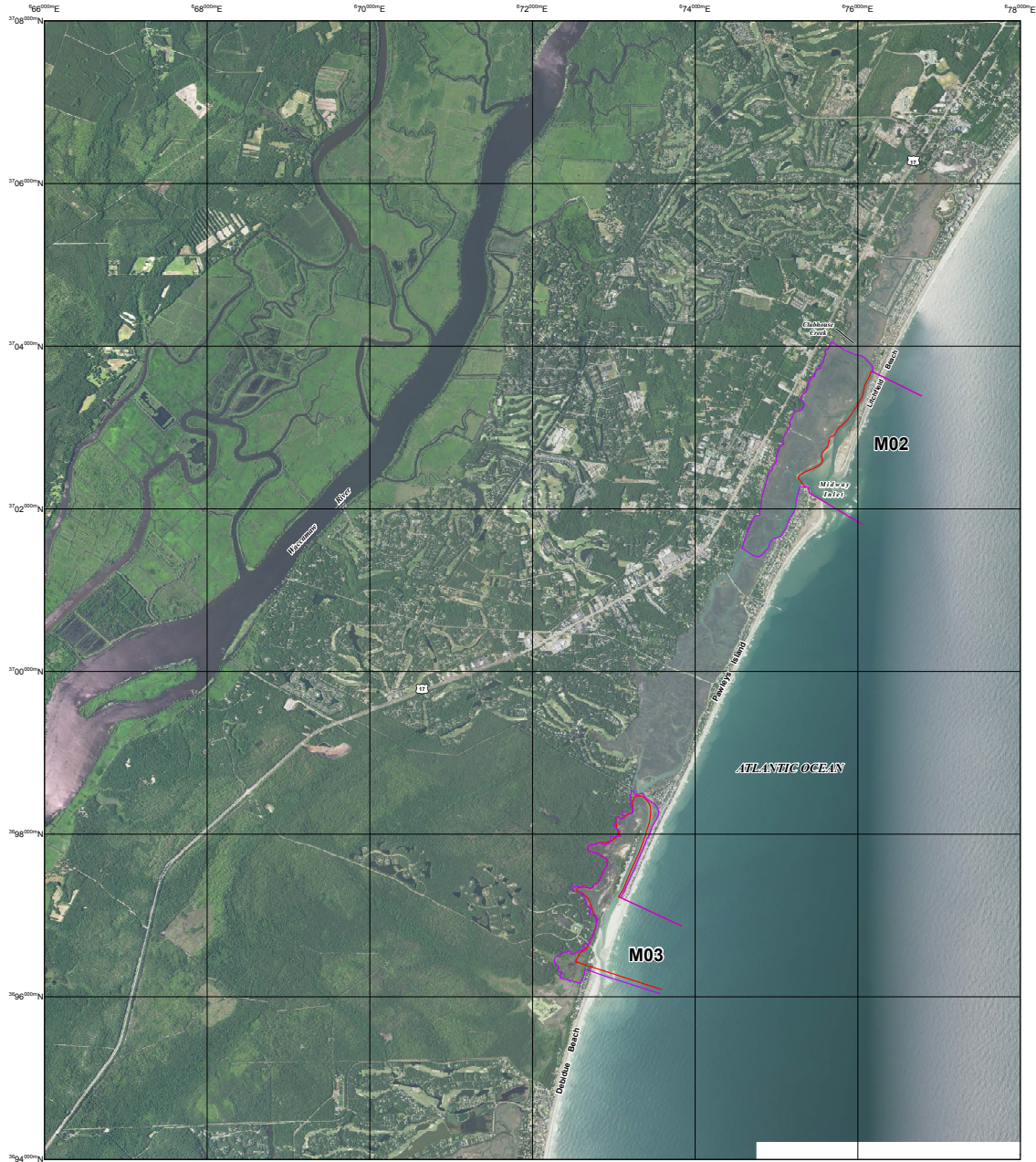
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	183	10	173	0.6	
Added to the CBRS	48	3	45		0
Removed from the CBRS	1	0	1		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	230	13	217	0.6	
Net Change	47	3	44	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



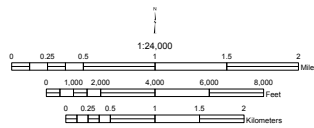
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

**Litchfield Beach Unit M02
Pawleys Inlet Unit M03**

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- - - - Approximate State Boundary
- 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2015
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 8 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-01, Fort Clinch, Florida

Summary of Final Recommended Changes

Type of Unit: Recommended new System Unit

Location of Unit: Northeast of Jacksonville on the Atlantic Coast, in Nassau County, Florida

Congressional District: 4

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-01 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: Approximately half of the area recommended for inclusion within new System Unit FL-01 is currently within existing Otherwise Protected Area (OPA) Unit FL-01P, which was established by the Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on

November 16, 1990). The remainder of the area recommended for inclusion within the new unit is currently not within the Coastal Barrier Resources System (CBRS).

The U. S. Fish and Wildlife Service's (Service) review found no documentation indicating that this area is held for conservation and/or recreation (in accordance with the Coastal Barrier Resources Act (CBRA) definition of an OPA). However, all areas within recommended new Unit FL-01 either qualified at the time they were first included within the CBRS, or for those areas newly added to the CBRS, currently qualify for inclusion within a System Unit.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-01. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-01. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the western boundary of the unit is modified to add wetlands on the west side of Egans Creek, which are part of the associated aquatic habitat.

Final Recommended Unit: The final recommended map dated March 18, 2016, creates new System Unit FL-01. Included within this new unit are the wetlands along Egans Creek from the North 14th Street Extension to State Highway A1A (Atlantic Avenue).

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	0	0	0	0.0	
Added to the CBRS	248	4	244		0
Removed from the CBRS	0	0	0		0
Reclassified Area	222	2	220	0.0	
Final Recommended Unit	470	6	464	0.0	
Net Change	470	6	464	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-01P, Fort Clinch, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: Northeast of Jacksonville on the Atlantic Coast, in Nassau County, Florida

Congressional District: 4

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-01P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-01P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit FL-01P (via notice published in the *Federal Register* (81 FR 13407)

on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act (CBRA) to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to FL-01P. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-01P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-01P to align with the boundaries of Fort Clinch State Park and Dee Dee Bartels Nature Center and Fishing Pier (managed by Nassau County) and to add to the CBRS the portions of these conservation and/or recreation areas that are not already within the unit. The boundary of the unit is also modified on the north side to extend further into the Atlantic Ocean to clarify that the entire barrier spit and jetty are included within the OPA.

The wetlands along Egans Creek that are not within the State Park and are currently within OPA Unit FL-01P are recommended for reclassification to System Unit FL-01. The Service's review found no documentation indicating that this area is held for conservation and/or recreation (in accordance with the CBRA definition of an OPA); however, it does qualify for inclusion within a System Unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	1,750	1,058	692	1.9	
Added to the CBRS	187	145	42		0
Removed from the CBRS	0	0	0		0
Reclassified Area	(222)	(2)	(220)	0.0	
Final Recommended Unit	1,715	1,201	514	1.9	
Net Change	(35)	143	(178)	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

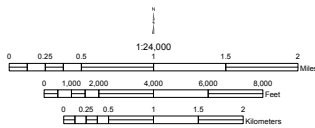
Fort Clinch Unit FL-01/FL-01P

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-228).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra

- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - Approximate State Boundary
- 2000-meter Universal Transverse Mercator grid values



Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 9 March 18, 2016

John H. Chafee Coastal Barrier Resources System Unit P04A, Usina Beach, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: North of St. Augustine on the Atlantic Coast, in St. Johns County, Florida

Congressional District: 4*

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P04A is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Resources Act (CBRA) (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit P04A.

Historical Changes to Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the northern boundary of Unit P04A to remove an area that was developed in 1982, and adjusted the landward boundary to add associated aquatic habitat to the unit.

Pub. L. 105-277 (enacted on October 21, 1998) modified the boundary of adjacent System Unit P05. Unit P04A is depicted on the same map as Unit P05, but the boundary of Unit P04A was not modified at that time.

The U.S. Fish and Wildlife Service (Service) modified the landward boundary of Unit P04A (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to reflect natural changes that occurred in the configuration of the wetland/fastland interface. The northern portion of the boundary was modified to account for channel

migration along Robinson Creek. In addition, the name of the unit was changed from “Usinas Beach” to “Usina Beach” to correct a spelling error. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service’s responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit P04A. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the boundary of the unit is modified to add to the CBRS the undeveloped northern tip of Camachee Island (aka Comatchie Island) and wetlands on the northern side of the unit near Usina Beach (east of the Tolomato River). The boundary of the unit is also modified in order to remove several small areas of fastland that were thought to be wetlands and therefore were inadvertently proposed for addition to the CBRS on the draft map dated June 12, 2006 (a minor area of wetlands is also removed as a result).

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit P04A, and issued revised maps (see Historical Changes to

Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit P04A to remove from the CBRS two condominium buildings in the Las Palmas on the Intracoastal community and fastland located near the Fort Mosé Historic State Park Visitor Center. These areas are recommended for removal because the wetland/fastland interface that the boundary was intended to follow along portions of the landward boundary of the unit was not depicted correctly on the base map used for the October 24, 1990, CBRS map which first added those areas to Unit P04A.

The boundary of the unit is also modified to add to the CBRS on the northern side of the unit wetlands near Usina Beach (east of the Tolomato River) and the entire width of the Tolomato River, Robinson Creek, and several unnamed streams.

Portions of Fort Mosé Historic State Park are located within Unit P04A. Because sufficient information regarding the dates of acquisition was not available for this conservation and/or recreation area at the time the draft map was prepared, none of the State Park lands within the unit are recommended for reclassification as an OPA. The portion of the State Park area within Unit P04A as depicted on the final recommended map is about 30 acres (mostly wetlands), and has been within the CBRS since 1990.

The Service’s final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

*This Congressional District will take effect in the 115th Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P04A, Usina Beach, Florida (continued)

Acres, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	669	46	623	0.4	
Added to the CBRS	61	5	56		0
Removed from the CBRS	5	3	2		2
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	725	48	677	0.4	
Net Change	56	2	54	0.0	(2)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

John H. Chafee Coastal Barrier Resources System Unit P05, Conch Island, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: East of St. Augustine on the Atlantic Coast, in St. Johns County, Florida

Congressional District: 4*

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P05 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Resources Act (CBRA) (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit P05.

Historical Changes to Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the boundary of Unit P05 to add to the Coastal Barrier Resources System (CBRS) undeveloped coastal barrier and associated aquatic habitat.

Pub. L. 104-333 (enacted on November 12, 1996) modified the northern boundary of Unit P05 to remove from the CBRS certain private properties. The maps revised by this law were later invalidated by a court order on March 5, 1998 (*Coastal Alliance v. Babbitt*, Civil Action No. 97-1344 (D. D.C.)).

Pub. L. 105-277 (enacted on October 21, 1998) reinstated the maps revised by Pub. L. 104-333 (including the map for Unit P05) that were previously invalidated by court order.

The U.S. Fish and Wildlife Service (Service) modified the northern boundary of Unit P05 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) along the eastern shoreline of the Tolomato River, north of Vilano Point, to account for natural changes that occurred in the configuration of the shoreline. The landward boundary of the unit and a portion of the coincident boundary between Units P05 and P05P were modified to reflect natural changes that occurred in the configuration of the wetland/fastland interface. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit P05. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit P05, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the

changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit P05 to remove from the CBRS nine private properties (including six structures) in the Porpoise Point subdivision. The properties (comprising about five acres) are recommended for removal because the CBRS boundary changes adopted by Pub. L. 105-277 for Unit P05 were intended to remove these particular properties from the CBRS. However, this law did not remove from the CBRS Lots 7 to 13, Block 8.

The boundary of the unit is also modified to add to the CBRS wetlands around the Vilano Boat Ramp parking lot; the entire width of the Matanzas River channel down to the Bridge of the Lions; and the entire width of the Salt Run channel. The boundary is modified to remove from the CBRS an area within the Ponce de Leon's Fountain of Youth Archaeological Park.

The final recommended map reclassifies the southern portion of Conch Island from System Unit P05 to Otherwise Protected Area Unit P05P because that area was held for conservation and/or recreation as Anastasia State Park at the time Unit P05 was established. Although the northern portion of Conch Island is also part of Anastasia State Park, it was not acquired until after the unit was established and therefore will remain within the CBRS as System Unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

*This Congressional District will take effect in the 115th Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P05, Conch Island, Florida (continued)

Acreeage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	1,974	573	1,401	2.6	
Added to the CBRS	259	5	254		0
Removed from the CBRS	9	2	7		7
Reclassified Area	(408)	(226)	(182)	0.0	
Final Recommended Unit	1,816	350	1,466	1.6	
Net Change	(158)	(223)	65	(1.0)	(7)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P05P, Conch Island, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: East of St. Augustine on the Atlantic Coast, in St. Johns County, Florida

Congressional District: 4*

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P05P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit P05P.

Historical Changes to Unit: Pub. L. 105-277 (enacted on October 21, 1998) modified the boundary of adjacent System Unit P05. Unit P05P is depicted on the same map as Unit P05, but the boundary of Unit P05 was not modified at that time.

The U.S. Fish and Wildlife Service (Service) modified the coincident boundary between Units P05 and P05P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to reflect natural changes that occurred in the configuration of the wetland/fastland interface. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit P05P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit P05P, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit P05P to align with the boundary of Anastasia State Park as it existed in 1982 when the adjacent System Unit P05 was established.

The final recommended map reclassifies the southern portion of Conch Island from System Unit P05 to OPA Unit P05P because that area was held for conservation and/or recreation as Anastasia State Park at the time Unit P05 was established. Although the northern portion of Conch Island is also part of Anastasia State Park, it was not acquired until after the unit was established and therefore will remain within the CBRS as System Unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

*This Congressional District will take effect in the 115th Congress.

Acreage, Shoreline, and Structures:

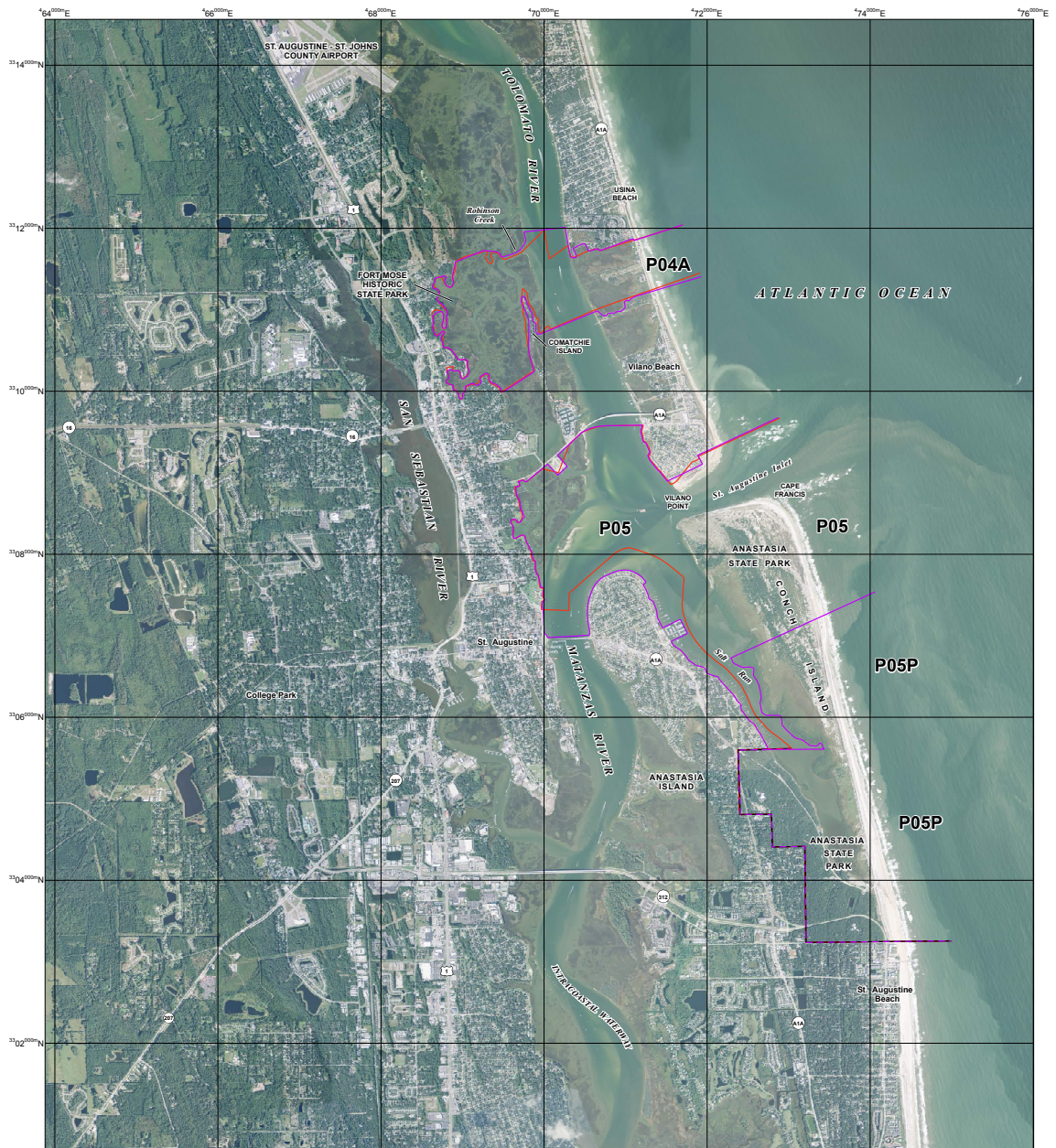
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	699	569	130	1.6	
Added to the CBRS	0	0	0		0
Removed from the CBRS	3	3	0		1
Reclassified Area	408	226	182	0.0	
Final Recommended Unit	1,104	792	312	2.6	
Net Change	405	223	182	1.0	(1)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



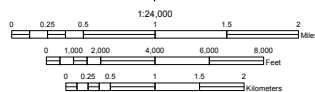
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

**Usina Beach Unit P04A
Conch Island Unit P05/P05P**

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - Approximate State Boundary
- 2000-meter grid 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 10 March 18, 2016

John H. Chafee Coastal Barrier Resources System Unit P08, Ponce Inlet, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of St. Augustine on the Atlantic Coast, in Volusia County, Florida

Congressional District: 6

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P08 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Resources Act (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit P08.

Historical Changes to Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the boundary of Unit P08 to add to the Coastal Barrier Resources System (CBRS) associated aquatic habitat.

The U.S. Fish and Wildlife Service (Service) modified the southeastern boundary of Unit P08 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to include the sand sharing system as visible on an updated base map. A portion of the western boundary was modified to reflect natural changes that occurred in the configuration of the shoreline along Leon Cut. The northwestern portion of the boundary was modified to follow

the center of the Spruce Creek channel. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit P08. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the northern boundary of the unit near Lighthouse Point Park is adjusted to match the existing boundary, which was placed off-shore to exclude the dock structures associated with a large marina. The boundary is modified to add to Unit P08 minor portions of Lighthouse Point Park where it is impractical to delineate them as Otherwise Protected Area (OPA). Similarly, minor portions of a private parcel are included within OPA Unit P08P where it is impractical to delineate them as System Unit.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including

Unit P08, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit P08 to remove from the CBRS seven private properties (including three structures) along South Peninsula Drive near Lighthouse Point Park and a private property (including one warehouse structure) located on Dixie Freeway south of New Smyrna Beach Municipal Airport. The boundary of the unit is also modified to add to the CBRS wetlands in several locations along the landward boundary of the unit; to add to the CBRS undeveloped fastland on the north side of Lighthouse Point Park; and to include within the CBRS the entire width of channel waterways.

Lighthouse Point Park and Smyrna Dunes Park, both managed by Volusia County, were held for conservation and/or recreation in 1982 when the area was added to the CBRS. These Parks are, therefore, recommended for reclassification from System Unit P08 to new OPA Unit P08P. Doris Leeper Spruce Creek Preserve is also included within Unit P08; however, the Preserve is not recommended for reclassification as an OPA because it was created after the unit was established.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P08, Ponce Inlet, Florida (continued)

Acreage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	4,213	656	3,557	1.9	
Added to the CBRS	144	7	137		0
Removed from the CBRS	12	4	8		6
Reclassified Area	(293)	(224)	(69)	0.0	
Final Recommended Unit	4,052	435	3,617	0.8	
Net Change	(161)	(221)	60	(1.1)	(6)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier; but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P08P, Ponce Inlet, Florida

Summary of Final Recommended Changes

Type of Unit: Recommended new Otherwise Protected Area (OPA)

Location of Unit: South of St. Augustine on the Atlantic Coast, in Volusia County, Florida

Congressional District: 6

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P08P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: Almost all of the area recommended for inclusion within new OPA Unit P08P is currently within existing System Unit P08, which was established by the Coastal Barrier Resources Act (CBRA) (Pub. L. 97-348 enacted on October 18, 1982). A minor portion of the area recommended for inclusion within the new unit is currently not within the Coastal Barrier Resources System (CBRS).

Recommended new Unit P08P meets the CBRA criteria for an undeveloped coastal barrier (16 U.S.C. 3503(g)(1)) and is consistent with the CBRA definition of an OPA,

which is an area “established under Federal, State, or local law, or held by a qualified organization, primarily for wildlife refuge, sanctuary, recreational, or natural resource conservation purposes” (Section 12 of the Coastal Barrier Improvement Act; Pub. L. 101-591). Most of the area recommended for inclusion within this new unit is maintained for conservation and/or recreation purposes by Volusia County.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit P08P. For a summary of the comments received on other pilot project units and the Service’s responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit P08P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the boundary of the unit is modified to reclassify two small parcels from System Unit P08 to OPA Unit P08P.

One parcel has been vested to Volusia County, and the County plans to include it in Lighthouse Point Park. The other parcel is included within the OPA because it is impractical from a mapping perspective to delineate it as System Unit.

Final Recommended Unit: The final recommended map dated March 18, 2016, creates new Unit P08P. Included within this new unit are Smyrna Dunes and Lighthouse Point Park, both managed by Volusia County. However, minor portions of Lighthouse Point Park are included within System Unit P08 in cases where it is impractical from a mapping perspective to delineate them as OPA (i.e., small islands or other features that are too small to carve out from the surrounding aquatic habitat). Similarly, minor portions of a parcel that are not conserved are included within Unit P08P where it is impractical from a mapping perspective to delineate them as System Unit.

Unit P08P includes an approximately three acre parcel within Smyrna Dunes Park that is owned by Volusia County and is leased to the U.S. Air Force for purposes other than conservation and/or recreation. However, this parcel is included within Unit P08P because it is impractical from a mapping perspective to delineate it as System Unit.

The Service’s final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	0	0	0	0.0	
Added to the CBRS	0	0	0		0
Removed from the CBRS	0	0	0		0
Reclassified Area	293	224	69	0.0	
Final Recommended Unit	293	224	69	1.1	
Net Change	293	224	69	1.1	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a “structure” in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

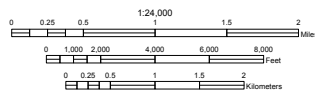
Ponce Inlet Unit P08/P08P

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra

- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 36°54'00"N 2000-meter Universal Transverse Mercator grid values



Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 11 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-13P, Spessard Holland Park, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: South of Palm Bay on the Atlantic Coast, in Brevard County, Florida

Congressional District: 8

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-13P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-13P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated

base map the boundary of Unit FL-13P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-13P. These minor modifications may include, but are not limited to: better alignment of the boundary

with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-13P to remove from the CBRS 11 private properties (including ten structures) in the Rivers Edge subdivision. The boundary of the unit is also modified to align with Oak Street and the boundaries of the following conservation and/or recreation areas owned by Brevard County: Flutie Athletic Complex, Spessard Holland North Beach Park, Spessard Holland South Beach Park, and Spessard Holland Golf Course.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acres, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	201	155	46	0.8	
Added to the CBRS	2	2	0		0
Removed from the CBRS	4	4	0		10
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	199	153	46	0.8	
Net Change	(2)	(2)	0	0.0	(10)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

John H. Chafee Coastal Barrier Resources System Unit P09A, Coconut Point, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: North of Vero Beach on the Atlantic Coast, in Brevard County, Florida

Congressional District: 8

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P09A is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Resources Act (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit P09A.

Historical Changes to Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the boundary of Unit P09A to add to the Coastal Barrier Resources System (CBRS) undeveloped coastal barrier and associated aquatic habitat.

The U.S. Fish and Wildlife Service (Service) modified the landward boundary of Unit P09A (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to reflect natural changes that occurred in the configuration of the shoreline of Indian River. In addition, the boundaries of the two excluded areas were modified to reflect natural changes that occurred in the shoreline of the Indian River and the Atlantic Ocean. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS

boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit P09A. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit P09A. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the southern boundary of the unit is modified to account for the accreting sand spit of an island in the Indian River.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit P09A, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the northern boundary of Unit P09A to remove from the CBRS nine structures in the Averill Farms subdivision. The boundary of the southern excluded area is shifted

to align with development that was on-the-ground in 1982 when the surrounding area was originally included within the CBRS. The shift results in the removal from the CBRS of four condominium buildings in The Cove at South Beaches Condominium community and one structure in the Atlantic Shores subdivision, and the addition to the CBRS of undeveloped fastland (currently managed by Brevard County for conservation). The southern boundary of Unit P09A is also shifted to align with the development that was on-the-ground in 1982 when the area was originally included within the CBRS. This shift results in the removal from the CBRS of 12 structures in Riverside Landing of South Brevard subdivision and two structures in New Melbourne Beach subdivision. The southern boundary of the unit is modified to account for the accreting sand spit of an island in the Indian River.

The portions of Coconut Point Park (managed by Brevard County) that are currently within System Unit P09A are recommended for reclassification to Otherwise Protected Area (OPA) Unit P09AP. There are numerous other conservation and/or recreation areas located within Unit P09A, but only Coconut Point Park was held for conservation and/or recreation when the area was originally included within the CBRS.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P09A, Coconut Point, Florida (continued)

Acreeage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	3,214	304	2,910	2.0	
Added to the CBRS	54	8	46		0
Removed from the CBRS	15	11	4		28
Reclassified Area	(29)	(27)	(2)	0.0	
Final Recommended Unit	3,224	274	2,950	1.8	
Net Change	10	(30)	40	(0.2)	(28)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier; but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P09AP, Coconut Point, Florida

Summary of Final Recommended Changes

Type of Unit: Recommended new Otherwise Protected Area (OPA)

Location of Unit: North of Vero Beach on the Atlantic Coast, in Brevard County, Florida

Congressional District: 8

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P09AP is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit:

Approximately half of the area recommended for inclusion within new OPA Unit P09AP is currently within existing System Unit P09A, which was established by the Coastal Barrier Resources Act

(CBRA) (Pub. L. 97-348 enacted on October 18, 1982). The remainder of the area recommended for inclusion within the new unit is currently not within the Coastal Barrier Resources System (CBRS).

Recommended new Unit P09AP meets the CBRA criteria for an undeveloped coastal barrier (16 U.S.C. 3503(g) (1)) and is consistent with the CBRA definition of an OPA, which is an area “established under Federal, State, or local law, or held by a qualified organization, primarily for wildlife refuge, sanctuary, recreational, or natural resource conservation purposes” (Section 12 of the Coastal Barrier Improvement Act; Pub. L. 101-591). The area recommended for inclusion within this new unit is maintained for conservation and/or recreation purposes by Brevard County and the U.S. Fish and Wildlife Service (Service).

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service’s responses, see Chapter 4

and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit P09AP. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Unit: The final recommended map dated March 18, 2016, creates new OPA Unit P09AP. Included within this new unit are Coconut Point Park, managed by Brevard County, and lands near Coconut Point Park that are owned and managed by the Service as part of the Archie Carr National Wildlife Refuge.

The Service’s final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	0	0	0	0.0	
Added to the CBRS	58	54	4		1 ⁴
Removed from the CBRS	0	0	0		0
Reclassified Area	29	27	2	0.0	
Final Recommended Unit	87	81	6	0.7	
Net Change	87	81	6	0.7	1

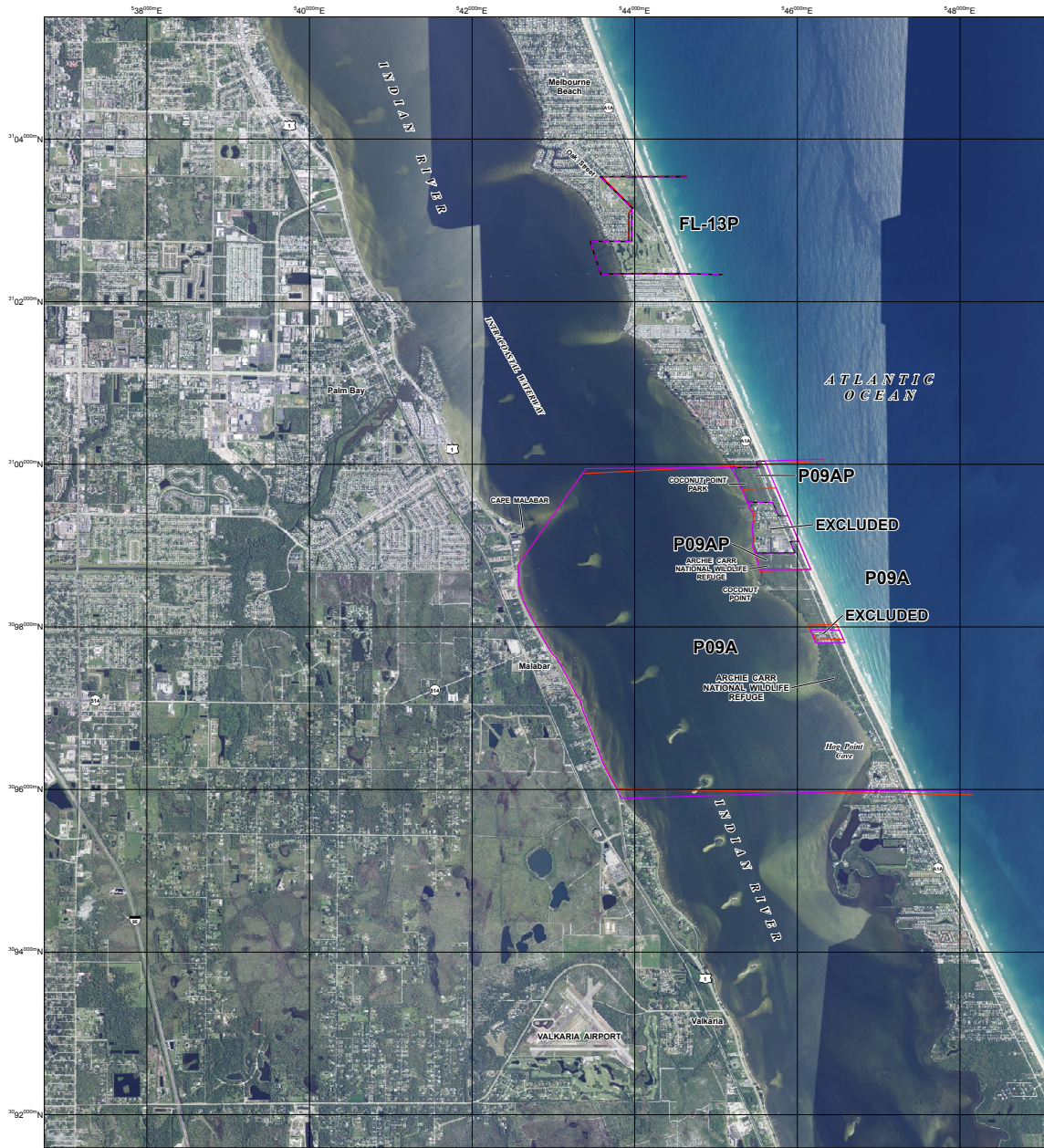
¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a “structure” in 16 U.S.C. 3503(g)(2).

⁴ According to the refuge manager, this structure is a former private residence now owned by Archie Carr National Wildlife Refuge.

Existing and Final Recommended Boundaries



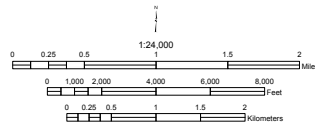
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

**Spessard Holland Park Unit FL-13P
Coconut Point Unit P09A/P09AP**

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbrs.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - Approximate State Boundary
- 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 12 March 18, 2016

John H. Chafee Coastal Barrier Resources System Unit P10A, Blue Hole, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: Southeast of Vero Beach on the Atlantic Coast, in Indian River and St. Lucie Counties, Florida

Congressional Districts: 8 and 18

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P10A is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Resources Act (CBRA) (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit P10A.

Historical Changes to Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the boundary of Unit P10A to add to the Coastal Barrier Resources System (CBRS) undeveloped coastal barrier and associated aquatic habitat and remove from the CBRS a small area that was developed in 1982.

The U.S. Fish and Wildlife Service (Service) modified the southwestern portion of the landward boundary of Unit P10A (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to reflect natural changes that have occurred in the configuration of the shoreline of an unnamed channel. The western portion of the landward boundary of the unit was modified to reflect natural changes that occurred in the configuration of the wetland/fastland interface. The eastern and western excluded area boundaries were modified to reflect natural changes that occurred in the

configuration of the shoreline of the Atlantic Ocean and Blue Hole Creek. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John. H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit P10A. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the landward boundary of Unit P10A is modified to more consistently follow several vegetative breaks that are visible on the updated base map imagery, and to add areas of wetlands. Portions of the southern landward boundary are adjusted around existing large marinas that are not currently within the CBRS and are no longer recommended for addition to the CBRS as originally proposed on the draft map dated June 12, 2006. Fort Pierce Inlet, an area of associated aquatic habitat around the Port of Fort Pierce (located south of the North Beach Causeway), and areas of associated aquatic habitat surrounding portions of Fort Pierce Inlet State Park are no longer recommended for addition or reclassification to Unit P10A as originally proposed on the 2006 draft map. These areas are either included within the final recommended boundary of adjacent Otherwise Protected

Area (OPA) Unit FL-14P or are not recommended for addition to the CBRS.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit P10A, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of the excluded area within Unit P10A to follow more precisely the 1982 break-in-development and remove from the CBRS three condominium buildings and three garage structures that are part of the Ocean Harbour Condominium Complex. The northern boundary of the unit is modified to remove portions of five private properties (including two structures) in the Genesee subdivision and six private properties (including four structures) in the Oyster Bay subdivision.

The final recommended map also adds portions of associated aquatic habitat (including areas within the Indian River Aquatic Preserve) to Unit P10A. Some of the associated aquatic habitat is currently located within Unit FL-14P and is recommended for reclassification from an existing OPA to System Unit status because Florida State Aquatic Preserves and Outstanding Florida Waters do not meet the CBRA definition of an OPA.

There are numerous conservation and/or recreation areas currently located within Unit P10A, but none of them were held for conservation and/or recreation when the area was originally included within the CBRS. Therefore, these areas are not recommended for reclassification from System Unit to OPA status. The modifications to the boundary of Unit P10A along the excluded

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P10A, Blue Hole, Florida (continued)

area and the landward side of the unit result in the inclusion of additional minor portions of several conserved areas to the unit

because it is impractical from a mapping perspective to delineate them as OPA. Similarly, minor portions of some wetlands that are not conserved are included within adjacent Unit FL-14P where it is impractical to delineate them as System Unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	5,725	840	4,885	3.9	
Added to the CBRS	1,408	20	1,388		0
Removed from the CBRS	14	11	3		13
Reclassified Area	519	26	493	0.0	
Final Recommended Unit	7,638	875	6,763	3.9	
Net Change	1,913	35	1,878	0.0	(13)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

John H. Chafee Coastal Barrier Resources System Unit FL-14P, Pepper Beach, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: East of Ft. Pierce on the Atlantic Coast, in St. Lucie County, Florida

Congressional District: 18

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-14P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-14P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the boundary of Unit FL-14P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) along Fort Pierce Cut to reflect natural changes that occurred in the configuration of the shoreline. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John. H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-14P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

The area within existing Unit FL-14P is a complex patchwork of State- and county-owned parks and preserves as well as wetland areas that do not have clear ownership information. Additionally, land ownership in the area has changed since the draft map dated June 12, 2006, was prepared. The Service used information submitted during the public comment period and other State and county sources to review the conservation and/or recreation areas within Unit FL-14P and determine the recommended location for the boundary of the unit.

An outcome of this review is the addition of North Causeway Island Park and portions of Little Jim Bridge Park, State Highway A1A (North Causeway Drive), and the channel on the north and east side of Kings Island Preserve to Unit FL-14P. Also, Fort Pierce Inlet, an area of associated aquatic habitat around the Port of Fort Pierce (located south of State Highway A1A), and areas of associated aquatic habitat surrounding portions of Fort Pierce Inlet State Park are no longer recommended for addition or reclassification to Unit P10A as originally proposed on the 2006 draft map. These areas are either included within the final recommended boundary of adjacent Unit FL-14P or are not recommended for addition to the CBRS. A boundary is added along the shoreline of the two excluded areas in Unit FL-14P, which closes them off at the shoreline and adds the nearshore waters to the unit.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit FL-14P, and issued revised

maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit:

The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-14P to remove from the CBRS two structures at the end of Oak Street in the Fort Pierce Shores subdivision, one building (comprised of five residences) in the Coastal Coves subdivision, and a fire station on the north side of Pepper Park.

The boundary of the unit is also modified to generally align with the boundaries of Fort Pierce Inlet State Park, Wildcat Cove Preserve (owned by St. Lucie County), and Pepper Park (managed by St. Lucie County) and to add to the CBRS the portions of these conservation and/or recreation areas that are not already within the CBRS. Kings Island Preserve (owned by St. Lucie County), North Causeway Island Park, portions of Little Jim Bridge Park, and portions of State Highway A1A (North Causeway Drive) are also added to Unit FL-14P. Other conservation and/or recreation areas that are currently within (and recommended to remain within) Unit FL-14P are Coon Island Park and Stan Blum Boat Ramp (both managed by St. Lucie County).

A minor portion of undeveloped private property (less than two acres) in the vicinity of Kings Island Preserve is included within the OPA because it is impractical from a mapping perspective to delineate it as System Unit. The parcel is mostly narrow and follows the shoreline around a cove.

The final recommended map reclassifies some portions of State- and privately-owned associated aquatic habitat (including spoil islands, open water, and wetlands) within the Indian River Aquatic Preserve from OPA Unit FL-14P to System Unit P10A because Florida

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-14P, Pepper Beach, Florida (continued)

State Aquatic Preserves and Outstanding Florida Waters do not meet the Coastal Barrier Resources Act definition of an OPA. Associated

aquatic habitat around Fort Pierce Inlet State Park and Wildcat Cove Preserve (also within the Indian River Aquatic Preserve) is not recommended for reclassification where it is impractical to delineate it as System Unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreage, Shoreline, and Structures:

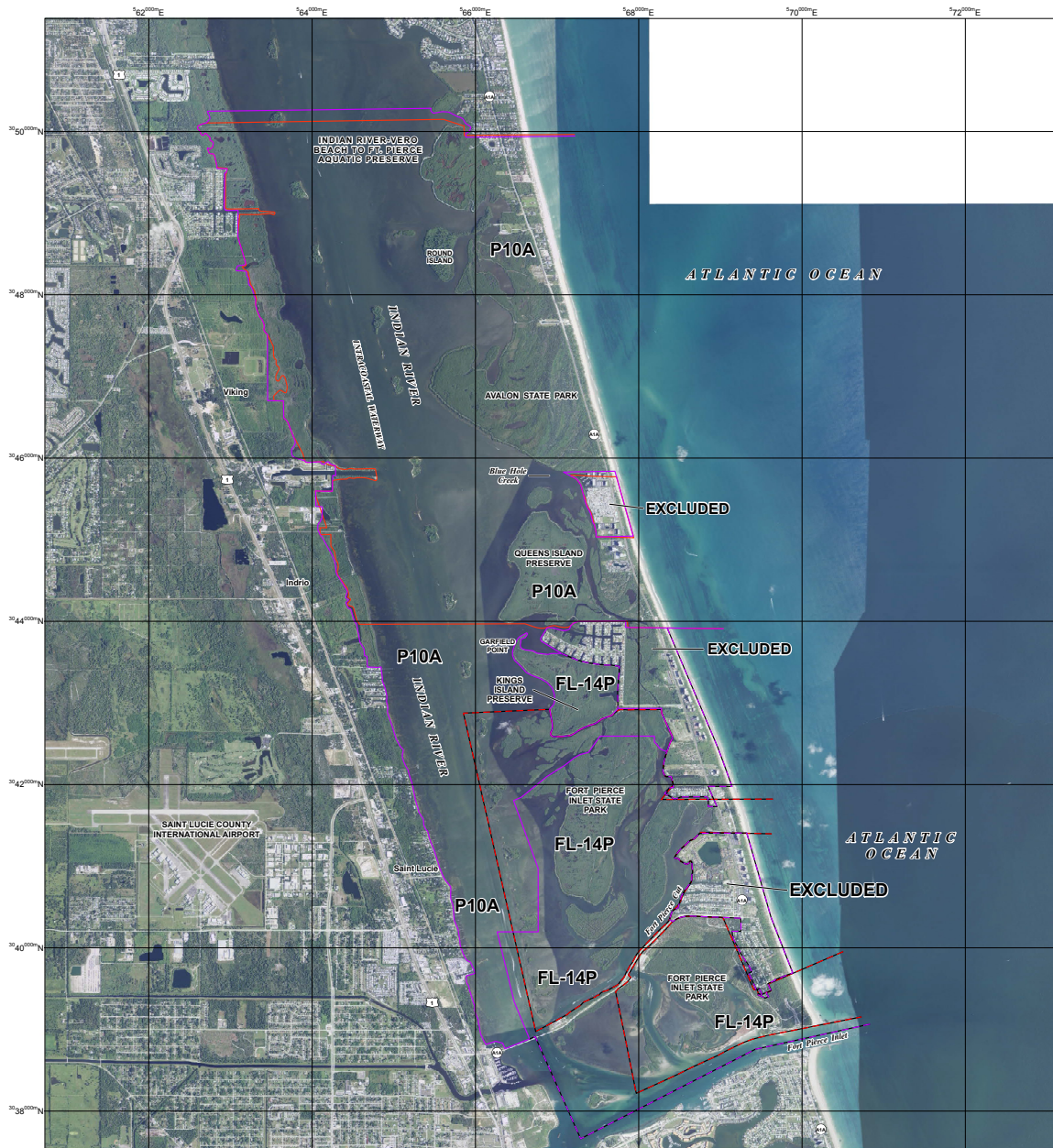
	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	2,620	270	2,350	0.7	
Added to the CBRS	803	69	734		3
Removed from the CBRS	4	3	1		4
Reclassified Area	(519)	(26)	(493)	0.0	
Final Recommended Unit	2,900	310	2,590	3.3	
Net Change	280	40	240	2.6	(1)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



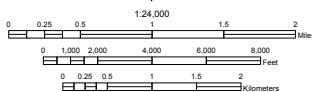
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

Blue Hole Unit P10A Pepper Beach Unit FL-14P

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - Approximate State Boundary
- 38°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 13 March 18, 2016

John H. Chafee Coastal Barrier Resources System Unit P11, Hutchinson Island, Florida**Summary of Final Recommended Changes**

Type of Unit: System Unit

Location of Unit: East of Port St. Lucie on the Atlantic Coast, in St. Lucie County, Florida

Congressional District: 18

Date of Final Recommended Maps: March 18, 2016

Number of Maps: Unit P11 is depicted on two maps.

Base Map Imagery Source and Dates: Florida Department of Transportation, 2012 and 2013

Establishment of Unit: The Coastal Barrier Resources Act (CBRA) (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit P11.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the southern boundary of Unit P11 (via notice published in the *Federal Register* (48 FR 17406) on April 22, 1983) to include within the Coastal Barrier Resources System (CBRS) additional wetlands. This modification was made in accordance with Section 4(c)(1) of Pub. L. 97-348, which allowed minor and technical boundary modifications as necessary to clarify the boundaries of the units.

The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the boundary of Unit P11 to add to the CBRS undeveloped coastal barrier and associated aquatic habitat and remove a small area that was developed in 1982.

Pub. L. 104-333 (enacted on November 12, 1996) modified the northern boundary of the southernmost excluded area of Unit P11 to remove from the CBRS certain private properties. The maps revised by this law were later invalidated by a court order on

March 5, 1998 (Coastal Alliance v. Babbitt, Civil Action No. 97-1344 (D. D.C.)).

Pub. L. 105-277 (enacted on October 12, 1998) reinstated the maps revised by Pub. L. 104-333 (including the map for Unit P11) that were previously invalidated by court order.

The Service modified the eastern boundaries of the two excluded areas of Unit P11 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to reflect natural changes that occurred in the configuration of the shoreline of the Atlantic Ocean. The landward boundary of the unit and western boundary of the northern excluded area were modified to reflect natural changes that occurred in the configuration of the shoreline of Indian River. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit P11. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the boundary of the middle excluded area is modified to add to the CBRS mangroves and wetlands owned by Dune Walk by the Ocean Condominiums and St. Lucie County. The southern boundary of the unit is modified to maintain

within the CBRS the undeveloped coastal barrier south of the Island Village Condominiums property (rather than be removed from the CBRS as originally proposed on the draft map dated June 12, 2006). The Service's assessment indicates that this area met the CBRA criteria for an undeveloped coastal barrier (16 U.S.C. 3503(g)(1)) at the time it was first included within the CBRS and therefore is not appropriate for removal.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit P11, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit:

The final recommended maps dated March 18, 2016, modify the boundary of Unit P11 to remove from the CBRS one condominium building in Dune Walk by the Ocean community, five condominium buildings in Ocean Bay Villas community, one condominium building in Sand Dollar Villas community, eight condominium buildings in the Island Village Condominiums community, several maintenance buildings on the Island Dunes Country Club property, and three county-owned structures located near the Ocean Bay Villas Condominiums. In addition, a portion of the Island Dunes Oceanside Condominiums property and a private property nearby are removed from the unit.

The boundary of the unit is also modified to add to the CBRS fastland on the northern end of the southernmost excluded area and near the causeway to Nettles Island and to add associated aquatic habitat in Jennings Cove east of Hook Point, near the nuclear power plant, near Dune Walk by the Ocean Condominiums, near the causeway to Nettles Island, and in the channel between Nettles and Hutchinson Islands.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P11, Hutchinson Island, Florida (continued)

Frederick Douglass Memorial Park that is owned by St. Lucie County and is currently within System Unit P11 is recommended for reclassification

to Otherwise Protected Area Unit P11P. There are numerous other conservation and/or recreation areas located within Unit P11, but only Frederick Douglass Memorial Park was held for conservation and/or recreation when the area was included within the CBRS.

The Service's final recommended maps depict changes to the CBRS that will only become effective if the updated maps are adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	16,155	661	15,494	9.8	
Added to the CBRS	60	7	53		0
Removed from the CBRS	19	17	2		19
Reclassified Area	(17)	(12)	(5)	0.0	
Final Recommended Unit	16,179	639	15,540	9.6	
Net Change	24	(22)	46	(0.2)	(19)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P11P, Hutchinson Island, Florida

Summary of Final Recommended Changes

Type of Unit: Recommended new Otherwise Protected Area (OPA)

Location of Unit: East of Port St. Lucie on the Atlantic Coast, in St. Lucie County, Florida

Congressional District: 18

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P11P is depicted on one map.

Base Map Imagery Source and Date:

Florida Department of Transportation, 2012

Establishment of Unit: All of the area recommended for inclusion within new OPA Unit P11P is currently within existing System Unit P11, which was established by the Coastal

Barrier Resources Act (CBRA) (Pub. L. 97-348 enacted on October 18, 1982).

Recommended new Unit P11P meets the CBRA criteria for an undeveloped coastal barrier (16 U.S.C. 3503(g)(1)) and is consistent with the CBRA definition of an OPA, which is an area “established under Federal, State, or local law, or held by a qualified organization, primarily for wildlife refuge, sanctuary, recreational, or natural resource conservation purposes” (Section 12 of the Coastal Barrier Improvement Act; Pub. L. 101-591). The area recommended for inclusion within this new unit is maintained for conservation and/or recreation purposes by St. Lucie County.

Public Comments: The U.S. Fish and Wildlife Service (Service) held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit P11P. For a summary of the comments received

on other pilot project units and the Service’s responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit P11P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Unit: The final recommended map dated March 18, 2016, creates new OPA Unit P11P. Included within this new unit is Frederick Douglass Memorial Park, which is owned by St. Lucie County.

The Service’s final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acres, Shoreline, and Structures:

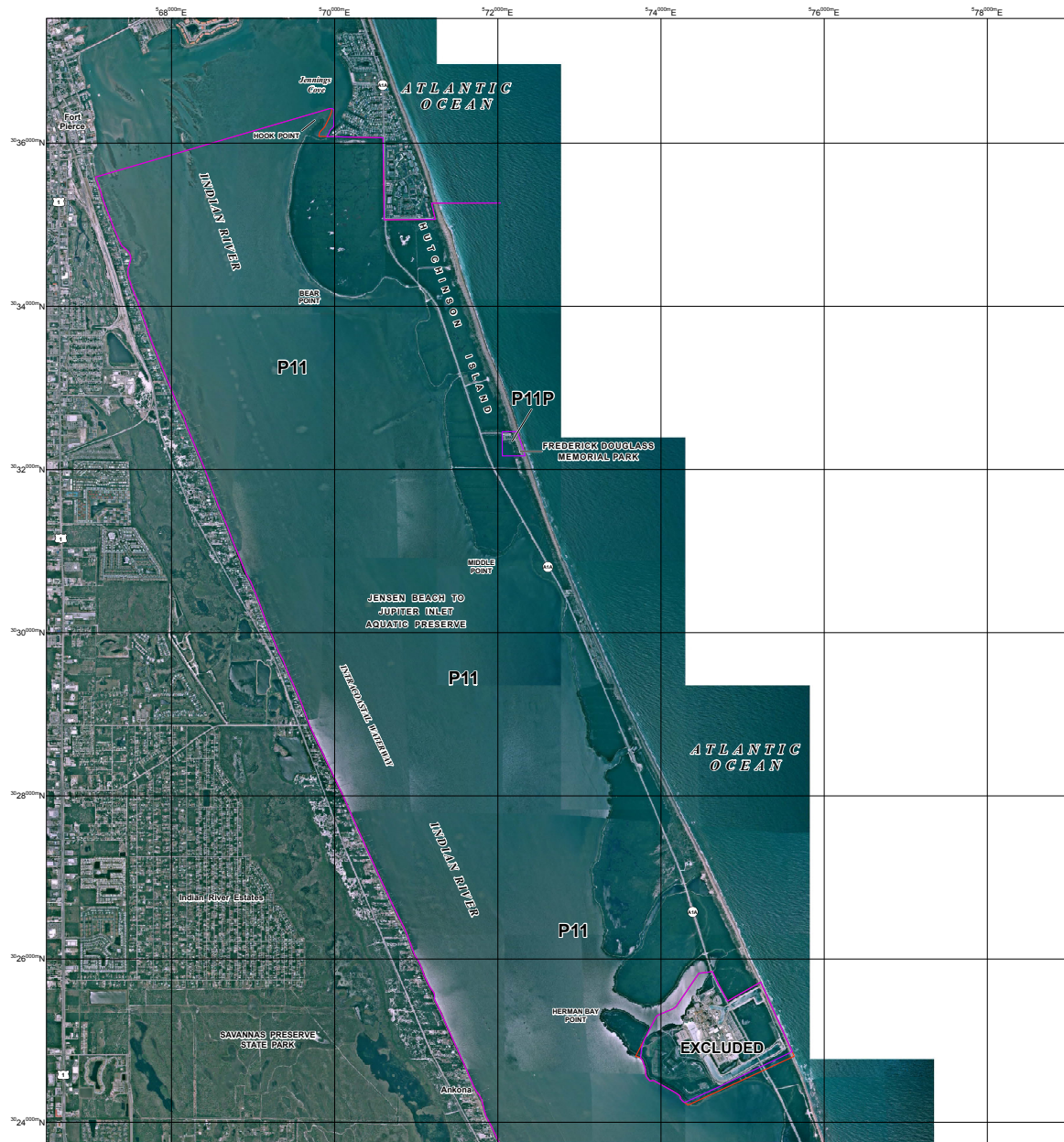
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	0	0	0	0.0	
Added to the CBRS	0	0	0		0
Removed from the CBRS	0	0	0		0
Reclassified Area	17	12	5	0.0	
Final Recommended Unit	17	12	5	0.2	
Net Change	17	12	5	0.2	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a “structure” in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

Hutchinson Island Unit P11/P11P (1 of 2)

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

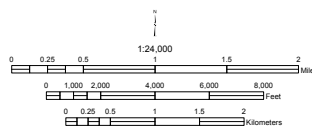
For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra

- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 38°54'00"N 2000-meter Universal Transverse Mercator grid values

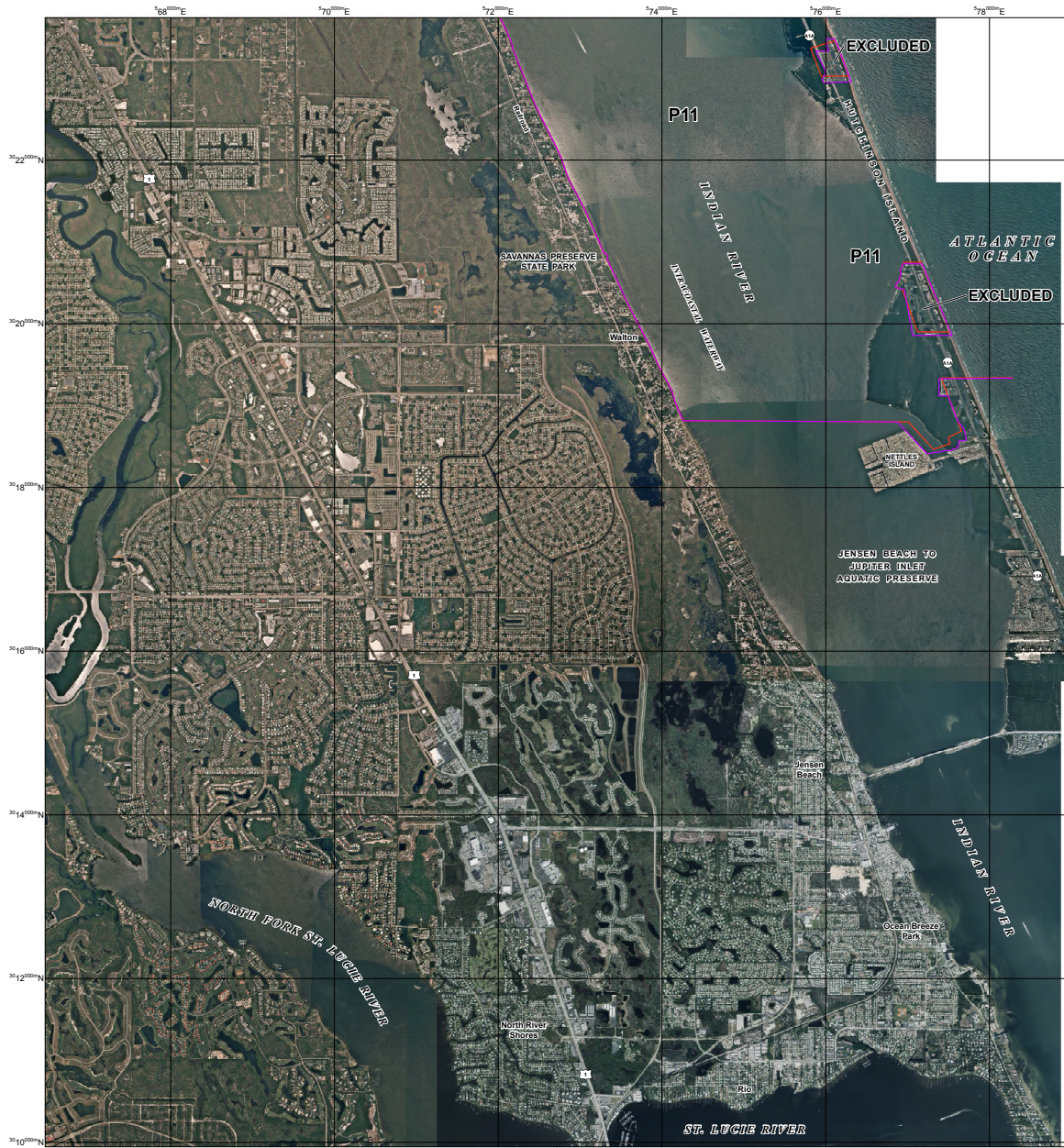
Imagery Date(s): 2012
Imagery Source(s): Florida Department of Transportation

Coordinate System: North American Datum 1983
Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 14 March 18, 2016



Existing and Final Recommended Boundaries



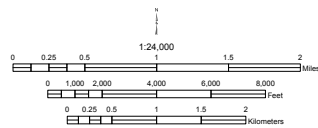
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

Hutchinson Island Unit P11 (2 of 2)

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra



- Existing System Unit Boundary
 - Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
 - Final Recommended System Unit Boundary
 - Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
 - - - - Approximate State Boundary
- 34°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2012, 2013
 Imagery Source(s): Florida Department of Transportation
 Coordinate System: North American Datum 1983
 Universal Transverse Mercator, Zone 17 North
 Pilot Project Draft Map 15 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-15, Blowing Rocks, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: North of West Palm Beach on the Atlantic Coast, in Martin County, Florida

Congressional District: 18

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-15 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-15.

Historical Changes to Unit: Pub. L. 103-461 (enacted on November 2, 1994) modified the northern and southern boundaries of Unit FL-15 to include within the Coastal Barrier Resources System (CBRS) only areas that were undeveloped at the time of their inclusion within the CBRS.

The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit FL-15 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act to review the maps of the CBRS at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-15. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-15. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and

simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the southern boundary of Unit FL-15 to remove from the CBRS two private properties (including three structures) in the Blowing Rocks subdivision and some associated aquatic habitat in Jupiter Sound. The northern boundary of the unit is also modified to add to the CBRS associated aquatic habitat in Jupiter Sound and the portions of the area owned by The Nature Conservancy that are not already within the unit.

Most of the area currently within Unit FL-15 is the Blowing Rocks Preserve, owned by The Nature Conservancy, a private conservation organization. The Nature Conservancy's property is not recommended for reclassification to an Otherwise Protected Area, although it was held for conservation when Unit FL-15 was established. There is evidence in the Service's records that, in 1990, this privately owned conservation area was deliberately included by Congress within the CBRS as a System Unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	217	98	119	1.0	
Added to the CBRS	8	2	6		0
Removed from the CBRS	16	2	14		3
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	209	98	111	0.9	
Net Change	(8)	0	(8)	(0.1)	(3)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

John H. Chafee Coastal Barrier Resources System Unit FL-16P, Jupiter Beach, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: North of West Palm Beach on the Atlantic Coast, in Palm Beach County, Florida

Congressional District: 18

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-16P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-16P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the western boundary of Unit FL-16P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to reflect natural changes that occurred in the configuration of the shoreline of an unnamed channel near Jupiter Beach Park. A portion of the northern boundary was modified to reflect natural changes that occurred in the configuration of the shoreline

of Jupiter Inlet. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-16P. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-16P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. The boundary of the unit is also modified to add to the CBRS a parcel that was purchased by Palm Beach County for conservation and/or recreation purposes in 2008 and is now part of DuBois Park. The landward boundary of the unit in the vicinity of the Palm Beach Ridge by the Sea property is modified to follow

the shoreline (like the existing CBRS boundary) instead of the parcel boundary. With this change, minor portions of associated aquatic habitat that are not within Jupiter Beach Park are maintained within Unit FL-16P (rather than be removed from the CBRS as originally proposed on the June 12, 2006 draft map).

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit FL-16P, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-16P to align with the boundaries of DuBois Park and Jupiter Beach Park, both owned by Palm Beach County, and to add to the CBRS the portions of these Parks which are not already within the unit. In addition, the northern boundary is modified to more consistently follow the center of the Loxahatchee River and the channel on the south side of the DuBois Park peninsula.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-16P, Jupiter Beach, Florida (continued)

Acreage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	51	34	17	0.3	
Added to the CBRS	17	7	10		2
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	68	41	27	0.4	
Net Change	17	7	10	0.1	2

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-17P, Carlin, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: North of West Palm Beach on the Atlantic Coast, in Palm Beach County, Florida

Congressional Districts: 18

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-17P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-17P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated

base map the boundary of Unit FL-17P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-17P. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-17P.

These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Changes to Unit:

The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-17P to remove from the CBRS the following properties that are partially within the OPA: Park Plaza Apartments Condominiums; Jupiter Bay East Condominiums; and Bella Vista on the Park Condominiums. This boundary modification removes three structures on the Park Plaza Apartments Condominiums property.

The boundary of the unit is also modified to align with the boundary of Carlin Park, managed by Palm Beach County, and to add to the CBRS the portions of the Park which are not already within the unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

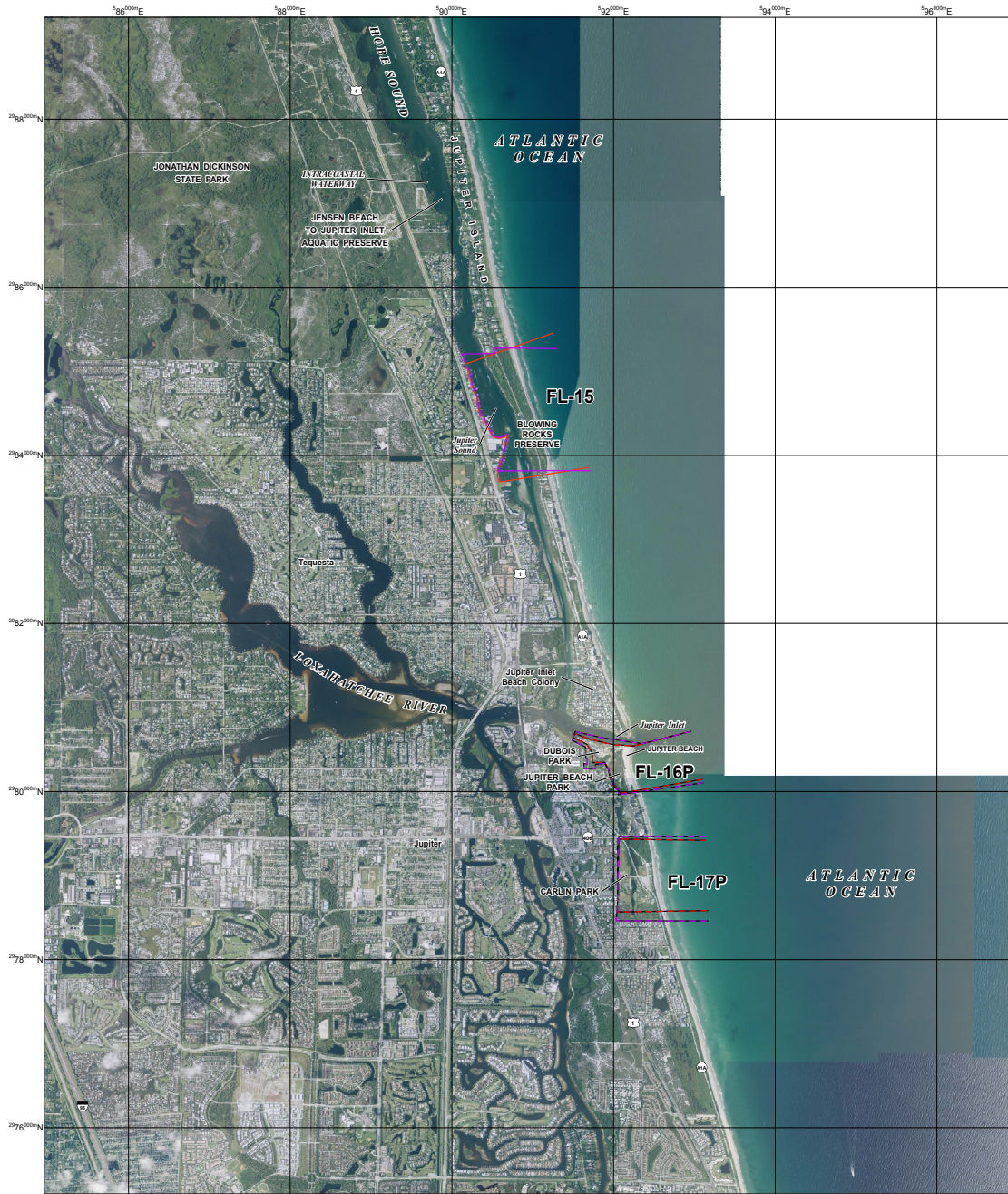
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	100	88	12	0.5	
Added to the CBRS	18	17	1		0
Removed from the CBRS	1	1	0		3
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	117	104	13	0.6	
Net Change	17	16	1	0.1	(3)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier; but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



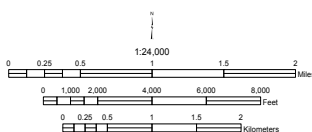
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

Blowing Rocks Unit FL-15 Jupiter Beach Unit FL-16P Carlin Unit FL-17P

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbrs.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 27°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 16 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-18P, MacArthur Beach, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: East of North Palm Beach on the Atlantic Coast, in Palm Beach County, Florida

Congressional District: 18

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-18P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-18P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit FL-18P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-18P. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-18P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Changes to Unit:

The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-18P to align with the boundary of John D. MacArthur Beach State Park and to remove from the CBRS three condominium buildings and one associated structure in the Greathouse Condominium community; five lots in Old Port Village subdivision; and a portion of St. Paul of the Cross Catholic Church property.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	844	156	688	1.6	
Added to the CBRS	2	1	1		0
Removed from the CBRS	5	3	2		4
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	841	154	687	1.6	
Net Change	(3)	(2)	(1)	0.0	(4)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier; but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

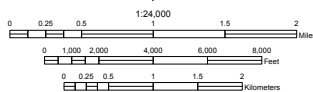
MacArthur Beach Unit FL-18P

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbrs.

- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary, OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary, OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 28°54'00"N 2000-meter Universal Transverse Mercator grid values



Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 17 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-19P, Birch Park, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: South of Fort Lauderdale on the Atlantic Coast, in Broward County, Florida

Congressional District: 22

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-19P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-19P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit

FL-19P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-19P. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-19P. These minor modifications may include, but are not limited to:

better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, approximately ten acres of beach property, managed by the City of Fort Lauderdale as a public beach and used for recreational purposes, will not be reclassified to new System Unit FL-19 as originally proposed on the draft map dated June 12, 2006. This property is currently within (and recommended to remain within) OPA Unit FL-19P. Because proposed new Unit FL-19 only contained this public beach, that proposed new unit no longer exists.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-19P to align with the boundary of Hugh Taylor Birch State Park and to add to the CBRS the portions of the State Park which are not already within the unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acres, Shoreline, and Structures:

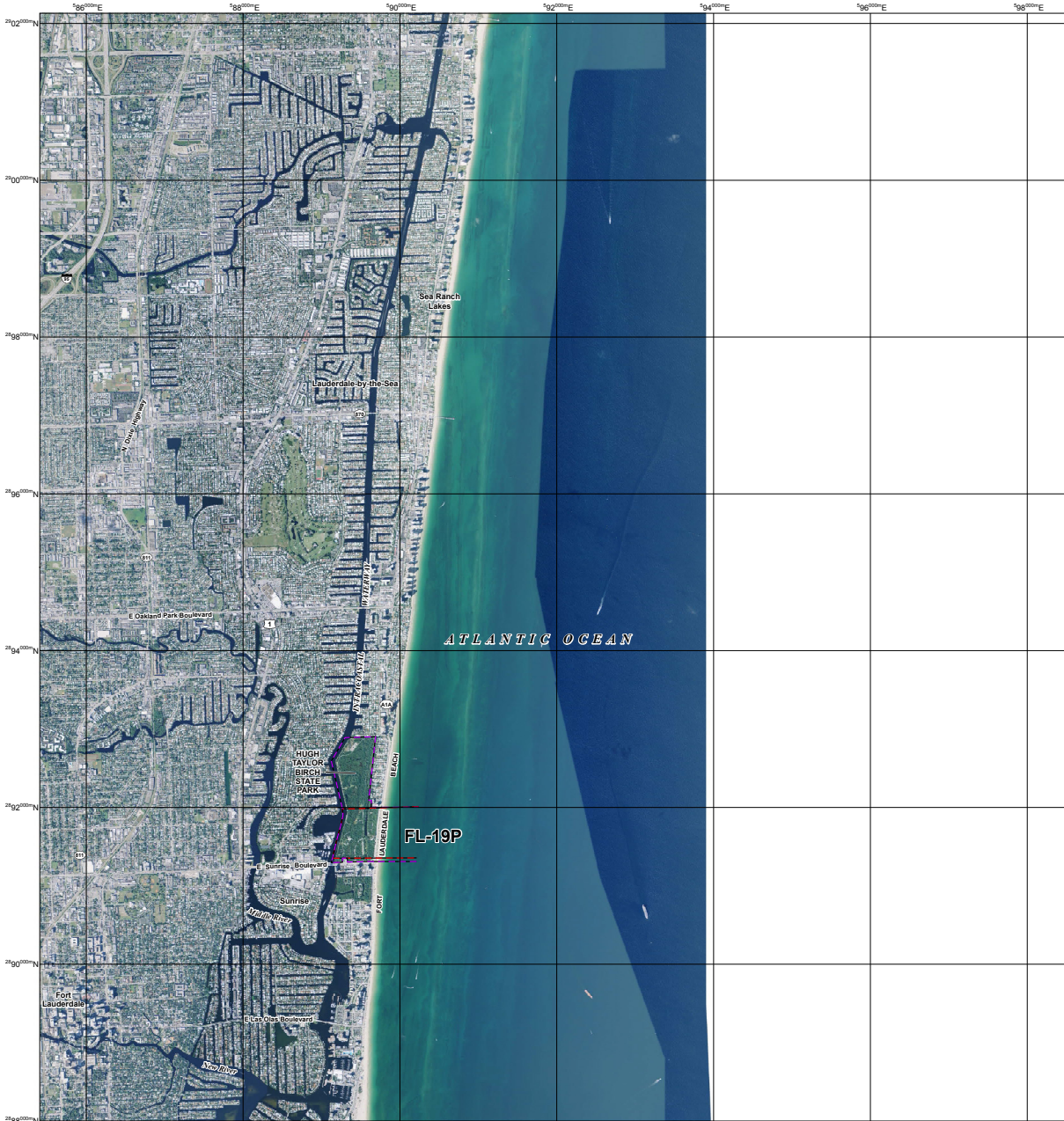
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	84	67	17	0.4	
Added to the CBRS	106	52	54		4
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	190	119	71	0.4	
Net Change	106	52	54	0.0	4

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



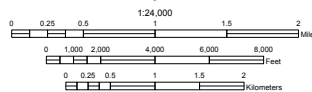
JOHN H. CHAFFE COASTAL BARRIER RESOURCES SYSTEM

Birch Park Unit FL-19P

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
 - Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
 - Final Recommended System Unit Boundary
 - Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
 - - - - Approximate State Boundary
- 27°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 18 March 18, 2016

John H. Chafee Coastal Barrier Resources System Unit FL-20P, Lloyd Beach, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: Southeast of Ft. Lauderdale on the Atlantic Coast, in Broward County, Florida

Congressional District: 23

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-20P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-20P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit FL-20P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act (CBRA) to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural

forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-20P. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-20P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the northern boundary is modified to maintain within the OPA a small area of beach that is part of the John U. Lloyd Beach State Park (rather than be removed from the CBRS as originally proposed on the June 12, 2006 draft map). The northern boundary is also extended to the center of the inlet at Lake Mabel.

The southern boundary of Unit FL-20P is modified to maintain within the CBRS a property containing a marina, fishing pier, and beach park owned by the City of Dania Beach (rather than be removed from the

CBRS as originally proposed on the draft map dated June 12, 2006). During the preparation of the final recommended maps for the pilot project, the Service found that this property is held for conservation and/or recreational purposes and therefore meets the CBRA definition of an OPA. With this modification, a small private undeveloped parcel north of the Dania Beach property also remains within Unit FL-20P because it is an inholding surrounded by conservation and/or recreation areas.

Final Recommended Changes to

Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-20P to remove from the CBRS a U.S. Coast Guard parcel, a parcel owned by a private university, and an area subleased to the U.S. Navy. The boundary of the unit is also modified along the north to extend to the center of the inlet at Lake Mabel and along the west and south to more consistently follow the center of the Intracoastal Waterway and Whiskey Creek, respectively.

The conservation and/or recreation areas that are currently within (and recommended to remain within) Unit FL-20P are: John U. Lloyd Beach State Park; a small parcel held for conservation and owned by the City of Hollywood; property held for recreation and owned by the City of Dania Beach; and a private inholding.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-20P, Lloyd Beach, Florida (continued)

Acreage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	396	227	169	2.6	
Added to the CBRS	16	0	16		0
Removed from the CBRS	36	22	14		16
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	376	205	171	2.7	
Net Change	(20)	(22)	2	0.1	(16)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System P14A, North Beach, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: Southeast of Ft. Lauderdale on the Atlantic Coast, in Broward County, Florida

Congressional District: 23

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P14A is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Resources Act (CBRA) (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit P14A.

Historical Changes to Unit: The boundary of Unit P14A was transferred and fitted to an updated base map through the Coastal Barrier Improvement Act (Pub. L.

101-591 enacted on November 16, 1990). No modifications were made to the boundary of the unit at that time.

The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit P14A (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the CBRA to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit P14A. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit P14A. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Changes to Unit:

The final recommended map dated March 18, 2016, modifies the boundary of Unit P14A to align with property parcel data and to include within the CBRS the entire width of the Intracoastal Waterway.

Hollywood North Beach Park, managed by Broward County, is located within Unit P14A, but is not recommended for reclassification as an Otherwise Protected Area because the Park was created in 1986 after Unit P14A was established.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

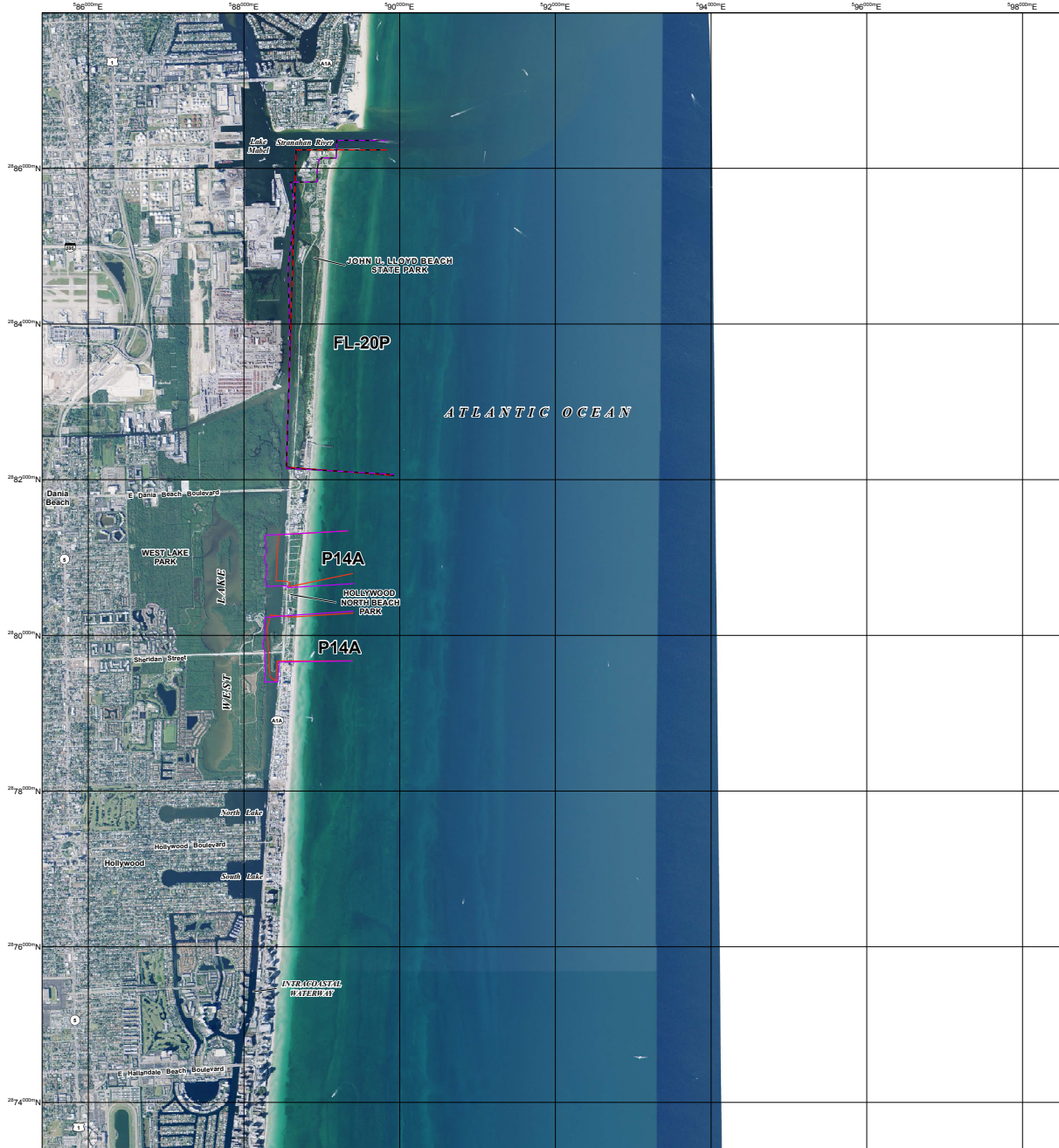
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	110	71	39	0.8	
Added to the CBRS	40	3	37		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	150	74	76	0.8	
Net Change	40	3	37	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



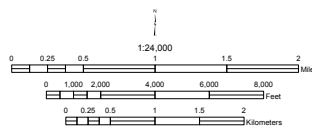
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

**Lloyd Beach Unit FL-20P
North Beach Unit P14A**

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 28°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 19 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-39, Tavernier Key, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of Key Largo in the Florida Keys, in Monroe County, Florida

Congressional District: 26

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-39 is depicted on one map.

Base Map Imagery Source and Date:

U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-39.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the eastern boundary of Unit FL-39 (via notice published in the *Federal Register* (58 FR 60288) on November 15, 1993) to more accurately follow the wetland/fastland interface. This modification was made in accordance with Section 4(e) of Pub. L. 101-591,

which allowed minor and technical boundary modifications as necessary to clarify the boundaries of the units.

The Service modified the northeastern boundary of Unit FL-39 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to account for emergent mangroves along Plantation Key. A boundary segment was added to the northern and southern lateral boundaries to clarify that Tavernier Key is located within the unit. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John. H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-39. These minor modifications may include, but are not limited to:

better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. Additionally, the northern boundary of the northern segment of the unit is modified to include within the CBRS the entire width of the Intracoastal Waterway. The boundary is also modified to add to the CBRS mangroves and a pond to the northern segment of the unit and a small undeveloped mangrove island to the southern segment of the unit.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit FL-39, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit:

The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-39 to add to the CBRS associated aquatic habitat (including mangroves in and around Community Harbor) and the entire width of the Intracoastal Waterway.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	1,210	6	1,204	0.8	
Added to the CBRS	143	0	143		0
Removed from the CBRS	1	0	1		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	1,352	6	1,346	0.8	
Net Change	142	0	142	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-40, Snake Creek, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of Key Largo in the Florida Keys, in Monroe County, Florida

Congressional District: 26

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-40 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-40.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the boundary of adjacent System Unit FL-39 (via notice published in the *Federal Register* (58 FR 60288) on November 15, 1993). Unit FL-40 is depicted on the same map as Unit FL-39, but the boundary of Unit FL-40 was not modified at that time.

The Service transferred and fitted to an updated base map the boundary of Unit FL-40 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-40. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-40. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and

simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the northern boundary of the northern segment of the unit is modified to include within the CBRS the entire width of the Intracoastal Waterway. The western boundary of the southern segment is modified to include within the CBRS all of Snake Creek channel and an area of associated aquatic habitat.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-40 to add to the CBRS undeveloped coastal barrier and associated aquatic habitat on the north side of U.S. Highway 1, which would add a second segment to the unit. The boundary of the unit is also modified to add smaller undeveloped areas south of U.S. Highway 1.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

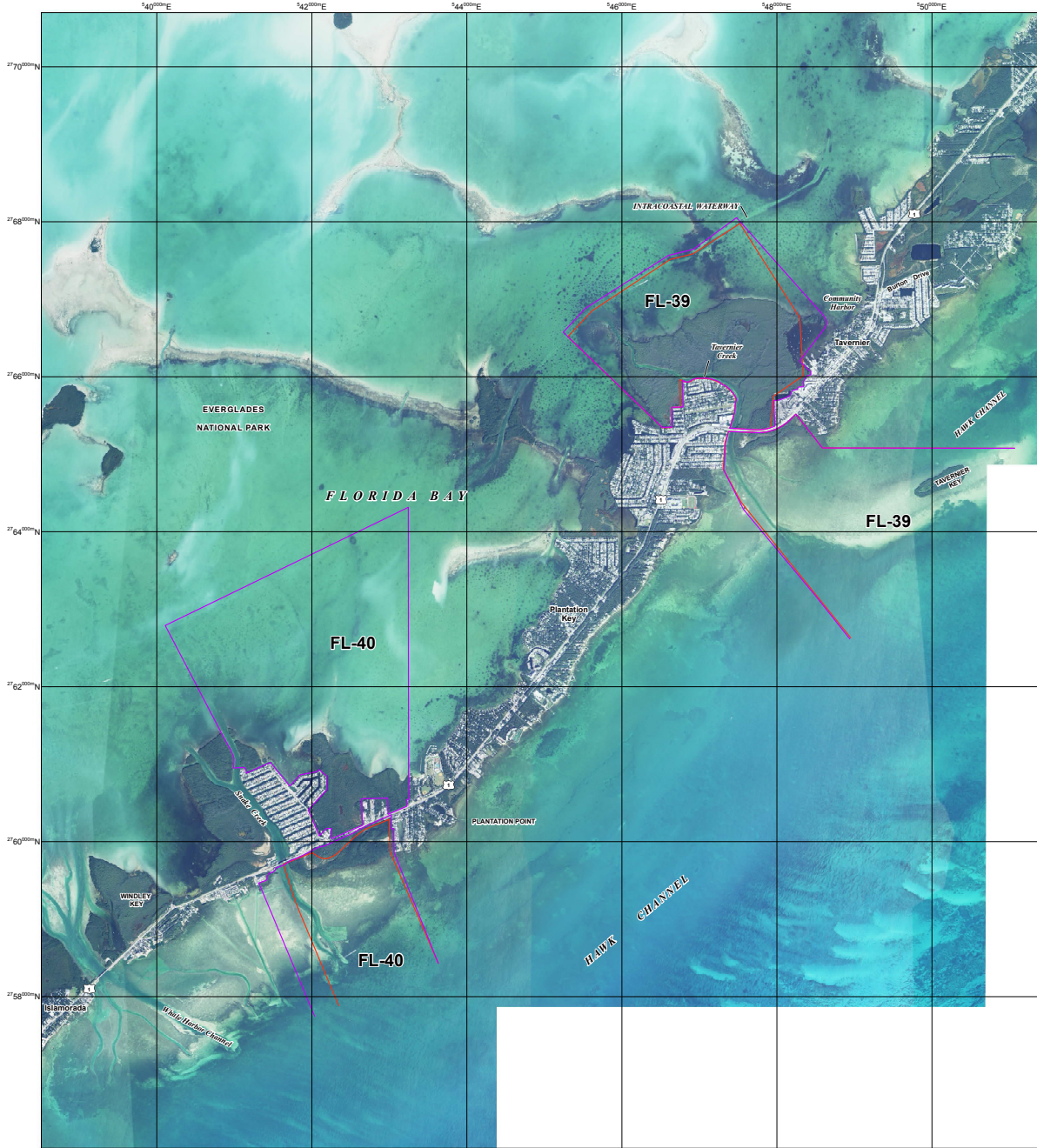
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	110	10	100	0.9	
Added to the CBRS	2,041	6	2,035		4
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	2,151	16	2,135	1.1	
Net Change	2,041	6	2,035	0.2	4

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



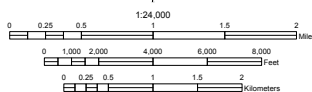
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

**Tavernier Key Unit FL-39
Snake Creek Unit FL-40**

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - Approximate State Boundary
- 27°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 20 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-43, Channel Key, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of Key Largo in the Florida Keys, in Monroe County, Florida

Congressional District: 26

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-43 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-43.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit FL-43 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to FL-43. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

There are no changes between the proposed boundary of Unit FL-43 depicted on the draft map dated June 12, 2006, and the final recommended boundary of the unit depicted on the map dated March 18, 2016.

Final Recommended Changes to Unit:

The final recommended map dated March 18, 2016, makes no changes to the boundary of Unit FL-43.

The Service's final recommended map will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	1,187	0	1,187	0.9	
Added to the CBRS	0	0	0		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	1,187	0	1,187	0.9	
Net Change	0	0	0	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-44, Toms Harbor Keys, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of Key Largo in the Florida Keys, in Monroe County, Florida

Congressional District: 26

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-44 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-44.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the landward boundary of Unit FL-44 (via notice published in the *Federal Register* (81 FR 13407)

on March 14, 2016) to reflect natural changes in the configuration of the mangroves and shoreline along Toms Harbor. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-44. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-44. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and

simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the western boundary of the unit is modified to add to the CBRS an area of wetlands and mangroves.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit FL-44, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-44 to add to the CBRS undeveloped coastal barrier and associated aquatic habitat on Grassy Key south of U.S. Highway 1, the entire width of Duck Key Channel, and portions of Toms Harbor.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	363	0	363	1.0	
Added to the CBRS	194	3	191		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	557	3	554	1.1	
Net Change	194	3	191	0.1	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-45, Deer/Long Point Keys, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: North of Key West in the Florida Keys, in Monroe County, Florida

Congressional District: 26

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-45 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-45.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit FL-45 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association

with the requirement in the Coastal Barrier Resources Act to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John. H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-45. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. Additionally, the eastern and western boundaries of the unit are modified to add to the CBRS wetlands and mangroves.

A medical examiner's office and fire training facility owned by Monroe County, and an electrical relay facility owned by the Florida Keys Electric Cooperative Association, are located within an area that was proposed for addition to Unit FL-45 on the draft map dated June 12, 2006. The boundary of Unit FL-45 is modified to exclude these facilities from the area recommended for addition to the CBRS.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-45 to add to the CBRS areas of undeveloped coastal barrier and associated aquatic habitat (primarily east of Little Crawl Key). Within this addition, three areas of existing development are excluded from the CBRS.

Curry Hammock State Park is located within Unit FL-45, but is not recommended for reclassification to an Otherwise Protected Area because the State Park was acquired by the State of Florida after Unit FL-45 was established.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreage, Shoreline, and Structures:

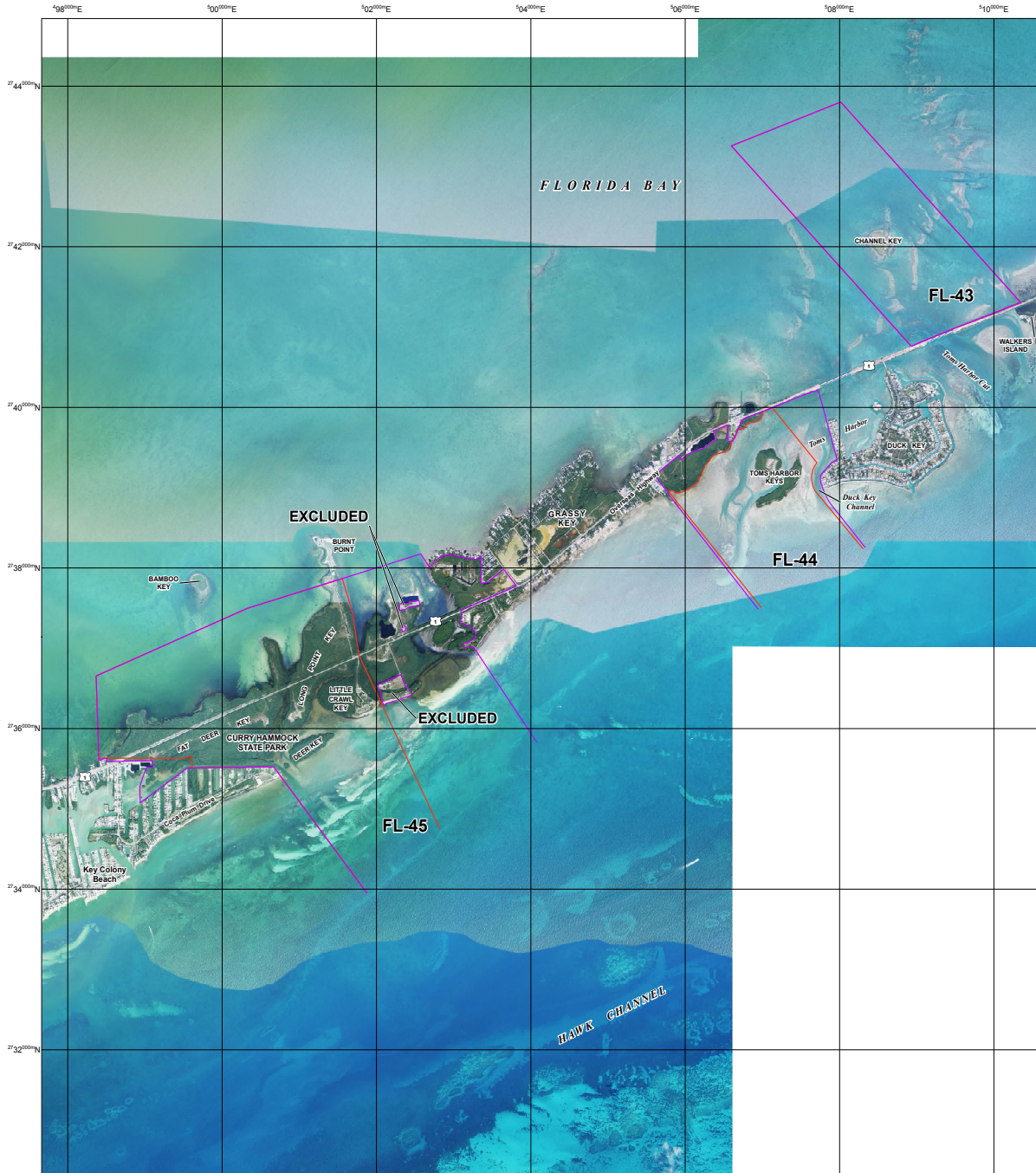
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	1,344	343	1,001	1.4	
Added to the CBRS	591	141	450		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	1,935	484	1,451	2.1	
Net Change	591	141	450	0.7	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

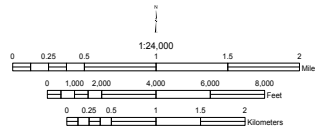
Channel Key Unit FL-43
Toms Harbor Keys Unit FL-44
Deer/Long Point Keys Unit FL-45

- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 28°54'00"N 2000-meter Universal Transverse Mercator grid values

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



Imagery Date(s): 2013
Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 21 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-46, Boot Key, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: North of Key West in the Florida Keys, in Monroe County, Florida

Congressional District: 26

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-46 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-46.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit FL-46 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act to review

the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-46. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-46. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the northern boundary of the unit is modified to add to the CBRS an area of mangroves and wetlands adjacent to U.S. Highway 1 and on

the east side of Knight Key. The eastern boundary of the unit is modified to add areas of associated aquatic habitat and an undeveloped public beach owned by the City of Marathon. The northern boundary of the unit is also modified to remove a portion of a large commercial marina dock that was inadvertently proposed for addition to the CBRS on the draft map dated June 12, 2006, because it was not visible on the 1999 base map imagery (a small portion of this dock that has expanded into the existing portion of Unit FL-46 will remain within the CBRS).

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-46 to remove from the CBRS the Federally owned property with radio towers that is used by the Voice of America. This property is located on Vaca Key along Sister Creek. Associated aquatic habitat (including mangroves and wetlands adjacent to U.S. Highway 1 and on the east side of Knight Key) and an undeveloped coastal barrier (comprising less than an acre of public beach) are added to Unit FL-46, along with the entire width of Boot Key Harbor.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreage, Shoreline, and Structures:

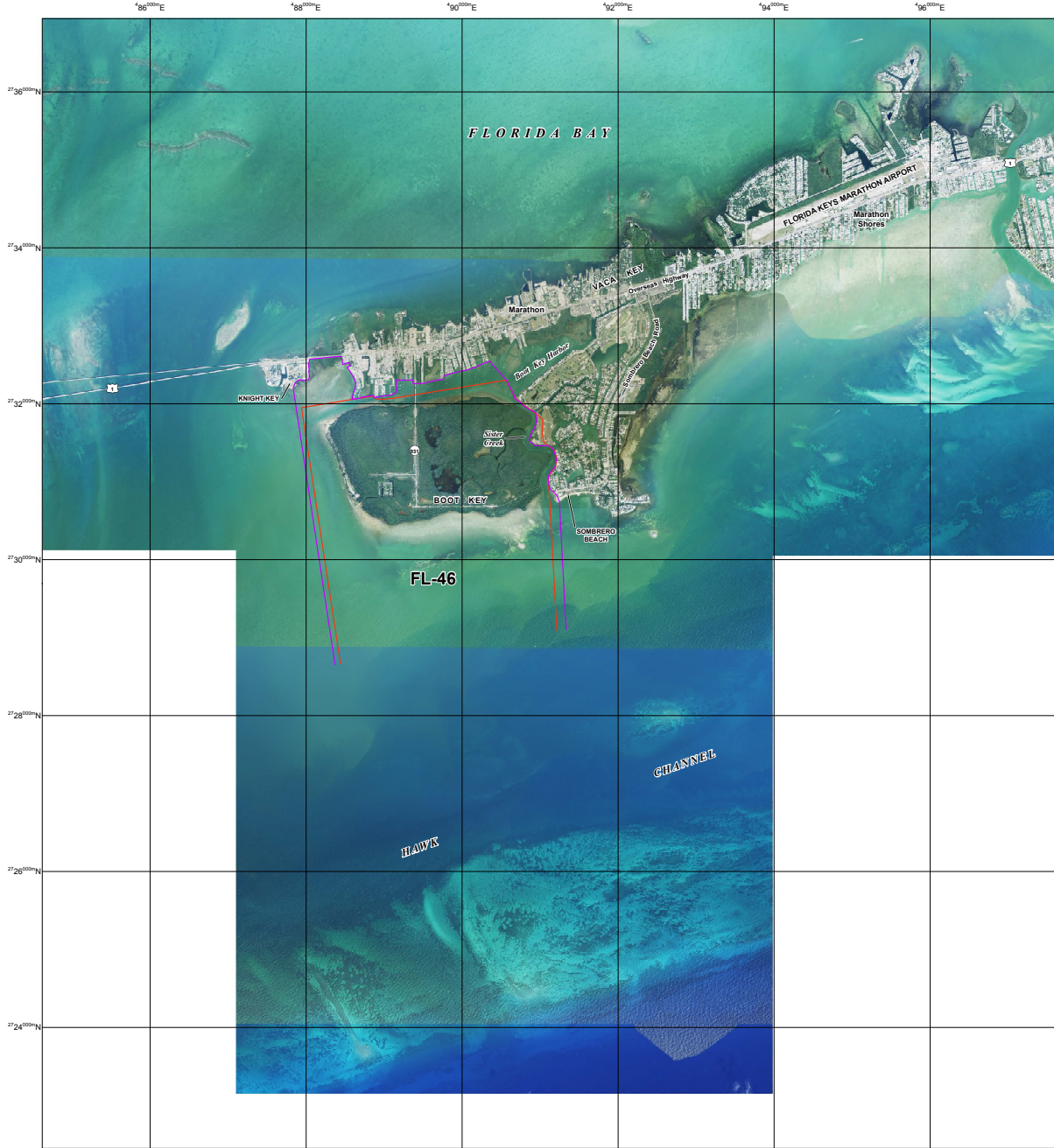
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	1,212	118	1,094	1.9	
Added to the CBRS	189	2	187		0
Removed from the CBRS	13	12	1		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	1,388	108	1,280	2.0	
Net Change	176	(10)	186	0.1	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



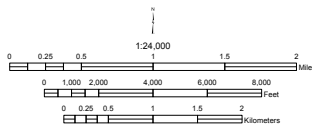
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

Boot Key Unit FL-46

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 27°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 22 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P17A, Bowditch Point, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: North of Naples on the Gulf Coast, in Lee County, Florida

Congressional District: 19

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P17A is depicted on one map.

Base Map Imagery Source and Date: Florida Department of Transportation, 2014

Establishment of Unit: The Coastal Barrier Resources Act (CBRA) (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit P17A.

Historical Changes to Unit: The boundary of Unit P17A was transferred and fitted to an updated base map through the Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990). No modifications were made to the boundary of the unit at that time.

Pub. L. 103-461 (enacted on November 2, 1994) modified the southern boundary of Unit P17A to include within the CBRS only areas that were undeveloped at the time the unit was established.

The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit P17A (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the CBRA to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time; however, the name of the unit was changed from “Bodwitch Point” to “Bowditch Point” to correctly identify the underlying barrier feature.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the Service’s responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit P17A. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit P17A to include the entire barrier spit at the northern end of Estero Island (which has accreted into adjacent Unit FL-67) within the unit.

Bowditch Point Park, owned by Lee County, is located within Unit P17A, but is not recommended for reclassification as an Otherwise Protected Area because the Park was acquired by the County after Unit P17A was established.

The Service’s final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	32	11	21	0.2	
Added to the CBRS	2	1	1		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	66	12	54	0.4	
Net Change	34	1	33	0.2	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a “structure” in 16 U.S.C. 3503(g)(2).

John H. Chafee Coastal Barrier Resources System Unit FL-67, Bunche Beach, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: North of Naples on the Gulf Coast, in Lee County, Florida

Congressional District: 19

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-67 is depicted on one map.

Base Map Imagery Source and

Date: Florida Department of Transportation, 2014

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-67.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the northern boundary of Unit FL-67 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to account for natural changes that occurred in the configuration of an unnamed channel south of Big Shell Island. A portion of the western boundary of the unit was extended westward to account for the migration of the sand sharing system in San Carlos Bay. In addition, the name of this unit was changed from “Bunch Beach” to “Bunche Beach” to correct a spelling error. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. For a summary of the comments received and the

Service’s responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-67. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the landward boundary of the unit along Shell Point Boulevard is modified to add a small area of mangroves that is mostly within Estero Bay Preserve State Park. Adjacent portions of the same State Park are already within Unit FL-67 (see Final Recommended Changes to Unit section below for additional information). The boundary of the unit near Little Shell Island in the Caloosahatchee River is modified to maintain an area of associated aquatic habitat within the CBRS, and the boundary along Punta Rassa north of the Sanibel Causeway is modified to add two small areas of mangroves and wetlands (one on north side of the development and the other on the south side at the Punta Rassa Boat Ramp).

The boundary of the excluded area is modified to remove a portion of a commercial marina that existed at the time the area was included within the CBRS. The coincident boundary between Unit FL-67 and recommended new Otherwise Protected Area (OPA) Unit FL-67P, located south of where County Road 867 (McGregor Boulevard) and County Road 869 (Summerlin Road) meet, is modified to add portions of Matlacha Pass National Wildlife Refuge (owned by the Service) to Unit FL-67P. This area was originally proposed for addition to System Unit FL-67 on the draft map dated June 12, 2006.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit FL-67, and issued revised

maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to

Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-67 to add to the CBRS: portions of undeveloped coastal barrier and wetlands along Punta Rassa, along the excluded area boundary around Connie Mack Island, and along the landward boundary of the unit (both north and south of County Road 867); privately owned undeveloped islands in the Caloosahatchee River; and the entire width of several channels. The final recommended map also modifies the boundary to remove from the CBRS the portions of a hotel located along Punta Rassa and a commercial marina located just east of Connie Mack Island both of which were in areas that were developed at the time they were included within Unit FL-67.

The coincident boundary with Unit P17A is modified to include the entire barrier spit at the northern end of Estero Island (which has accreted out of Unit P17A and into Unit FL-67) within Unit P17A.

There are three conservation and/or recreation areas located partially within Unit FL-67: the Estero Bay Preserve State Park; the San Carlos Bay – Bunche Beach Preserve (managed by Lee County); and a portion of the Matlacha Pass National Wildlife Refuge (owned by the Service).

A small portion of Estero Bay Preserve State Park was first acquired by the State of Florida prior to the establishment of Unit FL-67. Many additional areas were later added to the State Park. At the time the draft map was prepared, sufficient information regarding the dates of acquisition was not available for the State Park parcels within Unit FL-67. Therefore, none of the State Park lands are recommended for reclassification as an OPA.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System FL-67, Bunche Beach, Florida (continued)

Additionally, a minor portion of this State Park is added to Unit FL-67 by the final recommended boundary because it is impractical from a mapping perspective to delineate it as OPA. The portions of Matlacha

Pass National Wildlife Refuge and San Carlos Bay – Bunche Beach Preserve (with one minor exception) that are currently within Unit FL-67 were acquired for conservation and/or recreation purposes after the unit was established. Therefore, these areas are not recommended for reclassification as an OPA.

The Service’s final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	3,231	87	3,144	4.3	
Added to the CBRS	380	6	374		0
Removed from the CBRS	7	3	4		1
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	3,572	90	3,482	4.1	
Net Change	341	3	338	(0.2)	(1)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a “structure” in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-67P, Bunche Beach, Florida

Summary of Final Recommended Changes

Type of Unit: Recommended new Otherwise Protected Area (OPA)

Location of Unit: North of Naples on the Gulf Coast, in Lee County, Florida

Congressional District: 19

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-67P is depicted on one map.

Base Map Imagery Source and Date:

Florida Department of Transportation, 2014

Establishment of Unit: The area recommended for inclusion within new OPA Unit FL-67P is currently not within the Coastal Barrier Resources System (CBRS).

Recommended new Unit FL-67P meets the Coastal Barrier Resources Act (CBRA) criteria for an undeveloped coastal barrier (16 U.S.C. 3503(g)(1)) and is consistent with the CBRA definition of an OPA, which is an area “established under Federal, State, or local law, or held by a qualified organization, primarily for wildlife refuge, sanctuary,

recreational, or natural resource conservation purposes” (Section 12 of the Coastal Barrier Improvement Act; Pub. L. 101-591). The majority of the area recommended for inclusion within this new unit is maintained for conservation and/or recreation purposes by Lee County and the U.S. Fish and Wildlife Service (Service). About four acres of an approximately five-acre parcel of undeveloped private property that is not held for conservation and/or recreation is included within the new OPA. About one acre of this private parcel is currently within System Unit FL-67.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-67P. For a summary of the comments received on other pilot project units and the Service’s responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-67P. These minor modifications may include, but are not limited to: better alignment of the boundary

with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the coincident boundary between recommended new OPA Unit FL-67P and Unit FL-67, located south of where County Road 867 (McGregor Boulevard) and County Road 869 (Summerlin Road) meet, is modified to add portions of Matlacha Pass National Wildlife Refuge and a privately owned parcel that is located between two conserved parcels to Unit FL-67P. This area was originally proposed for addition to System Unit FL-67 as depicted on the draft map dated June 12, 2006.

Final Recommended Unit: The final recommended map dated March 18, 2016, creates new OPA Unit FL-67P, comprised of two discrete segments. Included within this new unit are portions of the San Carlos Bay – Bunche Beach Preserve; portions of Matlacha Pass National Wildlife Refuge; and a privately owned parcel. This minor portion of private property is located near County Road 867 (McGregor Boulevard) between the Preserve and Refuge, and it is impractical from a mapping perspective to delineate it as System Unit.

The Service’s final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	0	0	0	0.0	
Added to the CBRS	179	1	178		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	179	1	178	0.0	
Net Change	179	1	178	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a “structure” in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



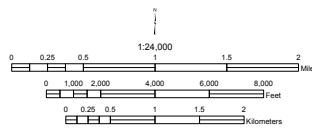
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

**Bowditch Point Unit P17A
Bunche Beach Unit FL-67/FL-67P
Sanibel Island Complex P18P (1 of 2)**

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - Approximate State Boundary
- 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2014
Imagery Source(s): Florida Department of Transportation

Coordinate System: North American Datum 1983
Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 23 March 18, 2016

John H. Chafee Coastal Barrier Resources System Unit P21, Bocilla Island, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of Punta Gorda Beach on the Gulf Coast, in Charlotte County, Florida

Congressional District: 17

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P21 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Resources Act (CBRA) (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit P21.

Historical Changes to Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the boundary of Unit P21 to add to the CBRS associated aquatic habitat, and created adjacent Otherwise Protected Area (OPA) Unit P21P.

The U.S. Fish and Wildlife Service (Service) modified the landward boundary of Unit P21 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to account for natural changes that occurred along the shoreline of Lemon Bay in the northern discrete segment of the unit. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through

August 5, 2009. For a summary of the comments received and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit P21. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the landward boundary of the southern segment of the unit is modified to remove from the CBRS two condominium buildings and one associated structure in the Hacienda Del Mar community. These structures are recommended for removal because the mangrove feature that the CBRS boundary was intended to follow was not depicted correctly on the base map used for the October 24, 1990, CBRS map. The landward boundaries of both the northern and southern discrete segments of the unit are also modified to add to the CBRS several areas of associated aquatic habitat.

Two islands (Buttonwood and Rookery) and the surrounding aquatic habitat located to the north of the Stump Pass Beach State Park are added to OPA Unit P21P. The islands and aquatic habitat, which are owned by the Lemon Bay Conservancy (a private conservation organization), were originally classified as System Unit P21 on the draft map dated June 12, 2006, because it was not known at that time that they met the CBRA definition of an OPA.

The boundary of Unit P21 is also modified along the Cedar Point Environmental Park shoreline, which results in the addition of minor portions of the Park to the unit because it is impractical from a mapping perspective to delineate them as OPA. Similarly, minor portions of some wetlands that are not in the Cedar Point Environmental Park are included

within Unit P21P where it is impractical to delineate them as System Unit.

A boundary is added along the shoreline of the excluded area in the southern segment of Unit P21, which closes it off at the shoreline and adds the nearshore waters to the unit.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit P21, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit:

The final recommended map dated March 18, 2016, modifies the boundary of Unit P21 to remove two condominium buildings and one associated structure in the Hacienda Del Mar community; the upland portions of six lots (including one structure) in the Eagle Preserve Estates subdivision; and the upland portion of one lot (including one structure) on Downing Street. The structures are recommended for removal because the mangrove features that the CBRS boundary was intended to follow were not depicted correctly on the base map used for the October 24, 1990, CBRS map.

In addition, the boundary of the unit is modified to align with property parcel data to follow more precisely the 1982 break-in-development and remove six lots (including two structures) and several dock lots in the Palm Island Estates and Hidden Cove Estates subdivisions.

The boundary of the southern segment of the unit is modified to add to the CBRS the associated aquatic habitat in Placida Harbor, resulting in the previously discrete middle and southern segments of the unit connecting to form one segment and in the creation of an excluded area on Little Gasparilla Island. The boundary of the northern segment of the unit is modified to add to the CBRS associated aquatic

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P21, Bocilla Island, Florida (continued)

habitat in Lemon Bay from Stump Pass to Beach Road. The landward boundary of the unit is modified to add to the CBRS several areas of associated aquatic habitat.

Associated aquatic habitat in Lemon Bay on the east side of Whidden and Little Whidden Keys is currently in OPA Unit P21P and is recommended for reclassification

to System Unit P21. The Service's review found no documentation indicating that this area is held for conservation and/or recreation (in accordance with the CBRA definition of an OPA); however, it does qualify for inclusion within a System Unit. Minor portions of Cedar Point Environmental Park are included within System Unit P21 where it is impractical to delineate them as OPA. Similarly, minor portions of some wetlands that are not in the Cedar Point Environmental Park are included within Unit P21P where

it is impractical to delineate them as System Unit. Don Pedro Island State Park is located within Unit P21, but is not recommended for reclassification to an OPA because the State Park was acquired after Unit P21 was established.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	2,002	409	1,593	3.8	
Added to the CBRS	1,736	13	1,723		0
Removed from the CBRS	9	4	5		6
Reclassified Area	90	0	90	0.0	
Final Recommended Unit	3,819	418	3,401	3.7	
Net Change	1,817	9	1,808	(0.1)	(6)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

John H. Chafee Coastal Barrier Resources System Unit P21P, Bocilla Island, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: South of Punta Gorda Beach on the Gulf Coast, in Charlotte County, Florida

Congressional District: 17

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P21P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (CBIA) (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit P21P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit P21P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act (CBRA) to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit P21P. For a summary of the comments

received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit P21P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the open water between the barrier and other islands in the Stump Pass Beach State Park (Manasota Key, Peterson Island, and Whidden Key) is modified to remain in OPA Unit P21P and not be reclassified to System Unit P21 as depicted on the draft map dated June 12, 2006. Although not part of the State Park, it is impractical to delineate the open water as System Unit. Two islands (Buttonwood and Rookery) and the surrounding aquatic habitat located to the north of the State Park are added to Unit P21P. The islands and aquatic habitat, which are owned by the Lemon Bay Conservancy (a private conservation organization), were originally classified as System Unit on the draft map dated June 12, 2006, because it was not known at that time that they met the CBRA definition of an OPA, which is defined as an area "established under Federal, State, or local law, or held by a qualified organization, primarily for wildlife refuge, sanctuary, recreational, or natural resource conservation purposes" (Section 12 of the CBIA).

The boundary of Unit P21P is also modified along the Cedar Point Environmental Park shoreline, which results in the inclusion of minor portions of the Park to System Unit P21 because it is impractical to delineate them as OPA. Similarly, minor portions of

some wetlands that are not in the Cedar Point Environmental Park are included within Unit P21P where it is impractical to delineate them as System Unit.

Final Recommended Changes to

Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit P21P to add to the CBRS two islands (Buttonwood and Rookery) and the surrounding aquatic habitat. The boundary of the unit is also modified to add to the CBRS an area owned by Charlotte County and located on the eastern side of Lemon Bay known as Cedar Point Environmental Park. These additions meet the CBRA definition of an OPA. Minor portions of Cedar Point Environmental Park are included within System Unit P21 where it is impractical to delineate them as OPA. Similarly, minor portions of some wetlands that are not in the Cedar Point Environmental Park are included within Unit P21P where it is impractical to delineate them as System Unit.

The boundary of the unit is also modified to align it to the northern boundary of the Stump Pass Beach State Park on Manasota Key where it is adjacent to private properties, and the boundary at the southern end of Manasota Key is modified to account for the accretion of the island out of the OPA.

Associated aquatic habitat in Lemon Bay on the east side of Whidden and Little Whidden Keys is currently in OPA Unit P21P and is recommended for reclassification to System Unit P21. The Service's review found no documentation indicating that this area is held for conservation and/or recreation (in accordance with the CBRA definition of an OPA); however, it does qualify for inclusion within a System Unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P21P, Bocilla Island, Florida (continued)

Acreage, Shoreline, and Structures:

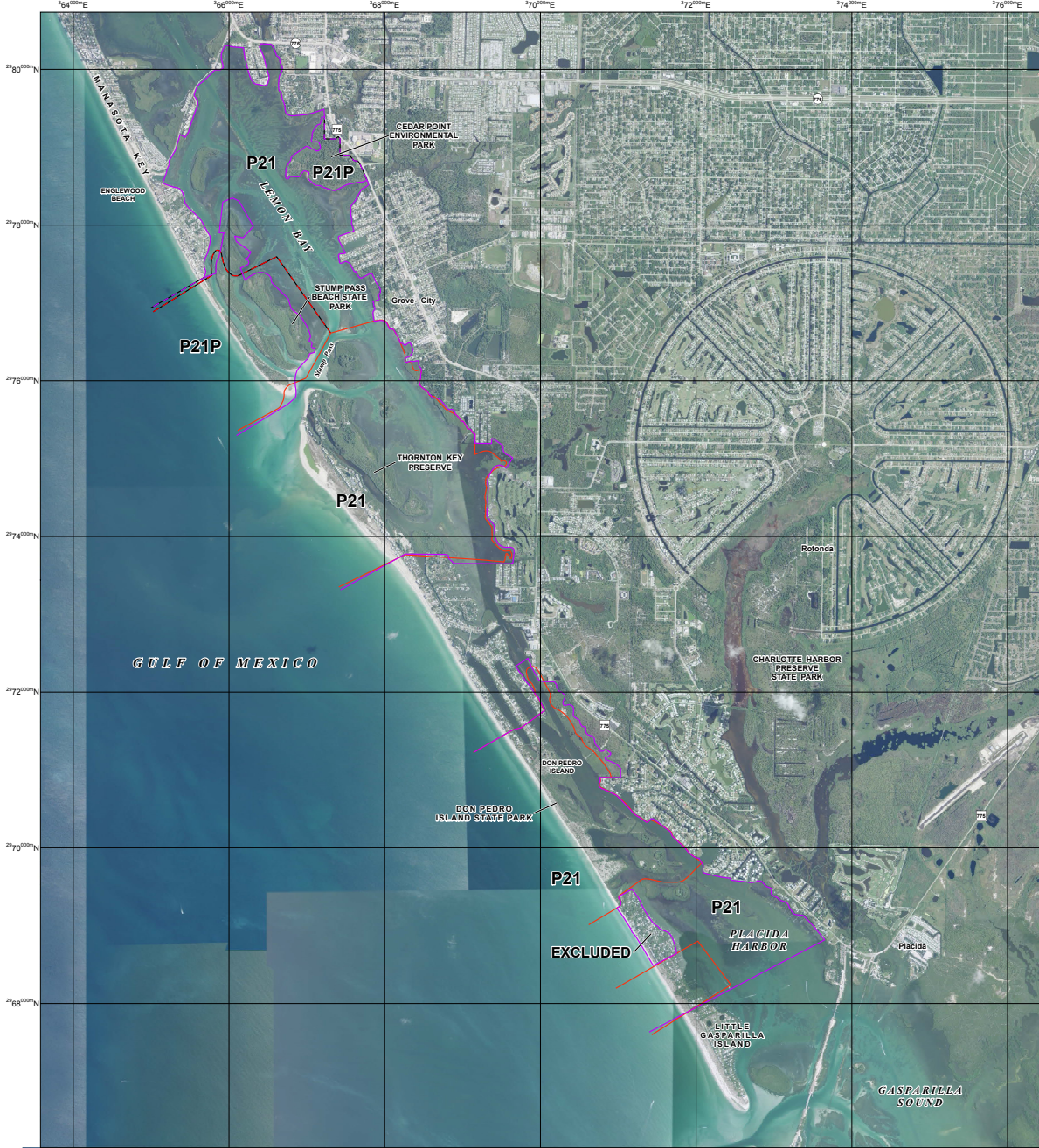
	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	394	116	278	1.1	
Added to the CBRS	181	76	105		0
Removed from the CBRS	0	0	0		0
Reclassified Area	(90)	0	(90)	0.0	
Final Recommended Unit	485	192	293	1.2	
Net Change	91	76	15	0.1	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

Bocilla Island Unit P21/P21P

- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - Approximate State Boundary
- $26^{\circ}4'00''N$ 2000-meter Universal Transverse Mercator grid values

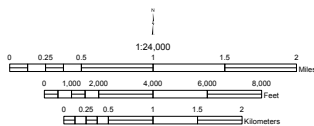
Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 24 March 18, 2016

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra



John H. Chafee Coastal Barrier Resources System Unit P22, Casey Key, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: Southeast of St. Petersburg on the Gulf Coast, in Sarasota County, Florida

Congressional District: 16, and 17*

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P22 is depicted on one map.

Base Map Imagery Sources and Dates: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013, and Florida Department of Transportation, 2014

Establishment of Unit: The Coastal Barrier Resources Act (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit P22.

Historical Changes to Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the boundary of Unit P22 to add to the Coastal Barrier Resources System (CBRS) wetlands.

The U.S. Fish and Wildlife Service (Service) modified the landward boundary of Unit P22 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to account for natural changes

that occurred in the configuration of the shoreline along Sarasota Keys. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit P22. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit P22. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the landward boundary of the unit is modified to add to the CBRS two small areas of mangroves (one on the north and the other on the south).

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit P22, and issued revised maps

(see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit P22 to add to the CBRS several areas of mangroves and wetlands on the east side of Little Sarasota Bay. The boundary of the unit is modified along the north to include the entire width of the channel between Siesta Key and Bird Keys. This northern boundary is also adjusted to generally align with parcel data to better follow the 1982 break-in-development.

There are two Sarasota County conservation and/or recreation areas, Jim Neville Marine Preserve and Palmer Point Park, located within Unit P22. The Preserve and Park are not recommended for reclassification to an Otherwise Protected Area, although they were held for conservation when Unit P22 was established. There is evidence in the Service's records that, in 1982, it was known that these areas had been deeded to the County for open space and recreational and nature preserve purposes and yet they were deliberately included by Congress within the CBRS as System Unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

*This Congressional District will take effect in the 115th Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P22, Casey Key, Florida (continued)

Acreage, Shoreline, and Structures:

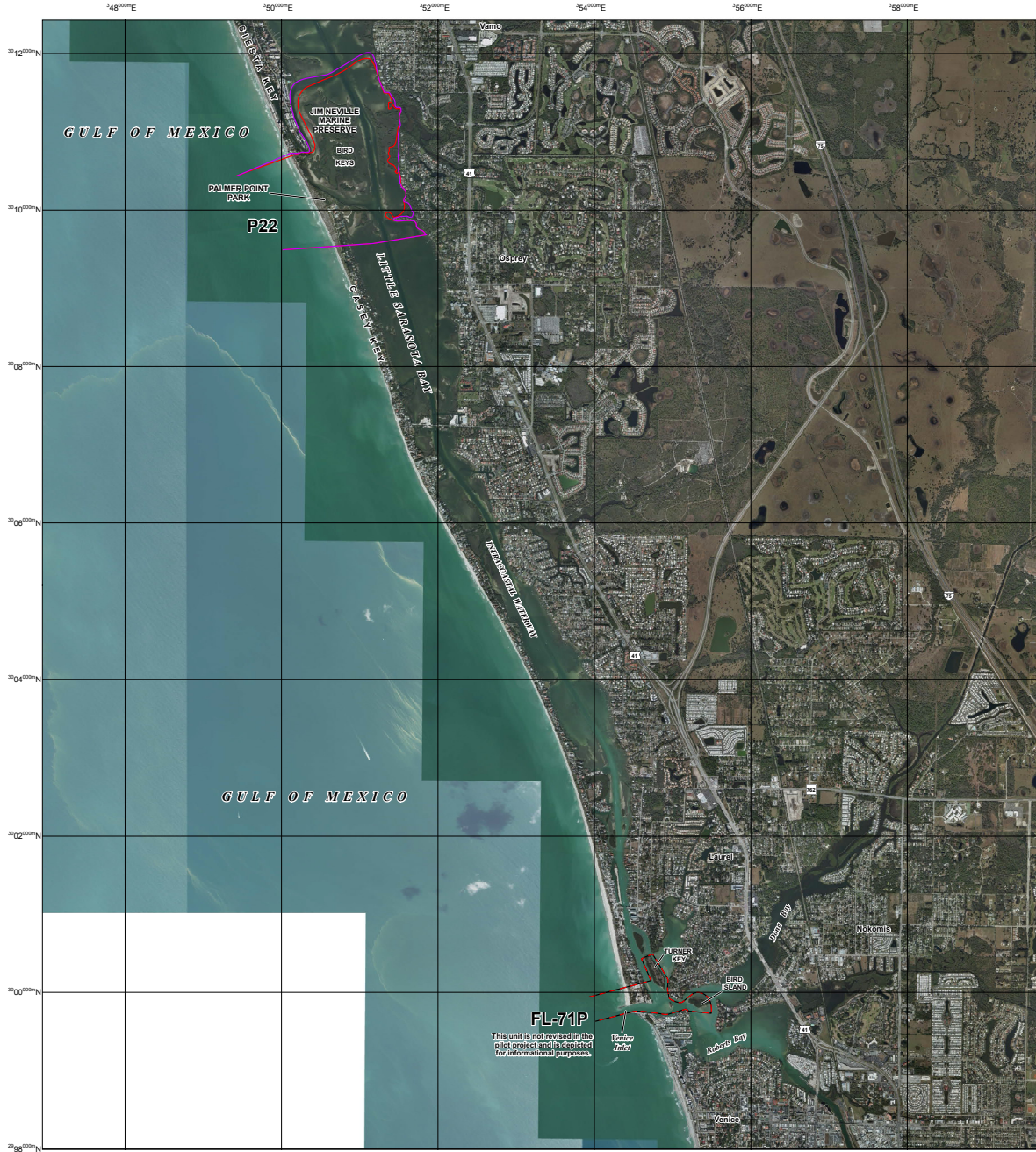
	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	615	78	537	0.8	
Added to the CBRS	62	5	57		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	677	83	594	0.8	
Net Change	62	5	57	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier; but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



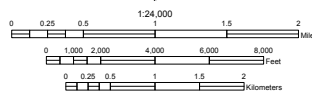
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

**Venice Inlet Unit FL-71P
Casey Key Unit P22**

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 36°4'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013, 2014
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Florida Department of Transportation
 Coordinate System: North American Datum 1983
 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 25 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-72P, Lido Key, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: Southeast of Sarasota on the Gulf Coast, in Sarasota County, Florida

Congressional District: 16

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-72P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-72P.

Historical Changes to Unit: Pub. L. 103-461 (enacted on November 2, 1994) modified the northwestern boundary of Unit FL-72P to include within the Coastal Barrier Resources System (CBRS) only areas that were undeveloped at the time the unit was established.

The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit FL-72P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act to review the CBRS maps at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-72P. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-72P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and

simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Changes to Unit:

The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-72P to remove from the CBRS a condominium building and two associated structures located on the Sarasota Sands Resort Condominiums property.

Unit FL-72P contains two conservation and/or recreation areas, a mangrove island named Otter Key and Ted Sperling Park at South Lido Beach (in 2009 the name was changed from South Lido Park), both of which are owned by Sarasota County. The western boundary of the unit is modified to generally align with the boundary of Ted Sperling Park at South Lido Beach and to be adjacent to Taft Drive and the Boulevard of the Presidents. The eastern and southern boundaries of the unit are modified to follow the center of Big Sarasota Pass and the portion of Sarasota Bay between Lido Key and Bird Key.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

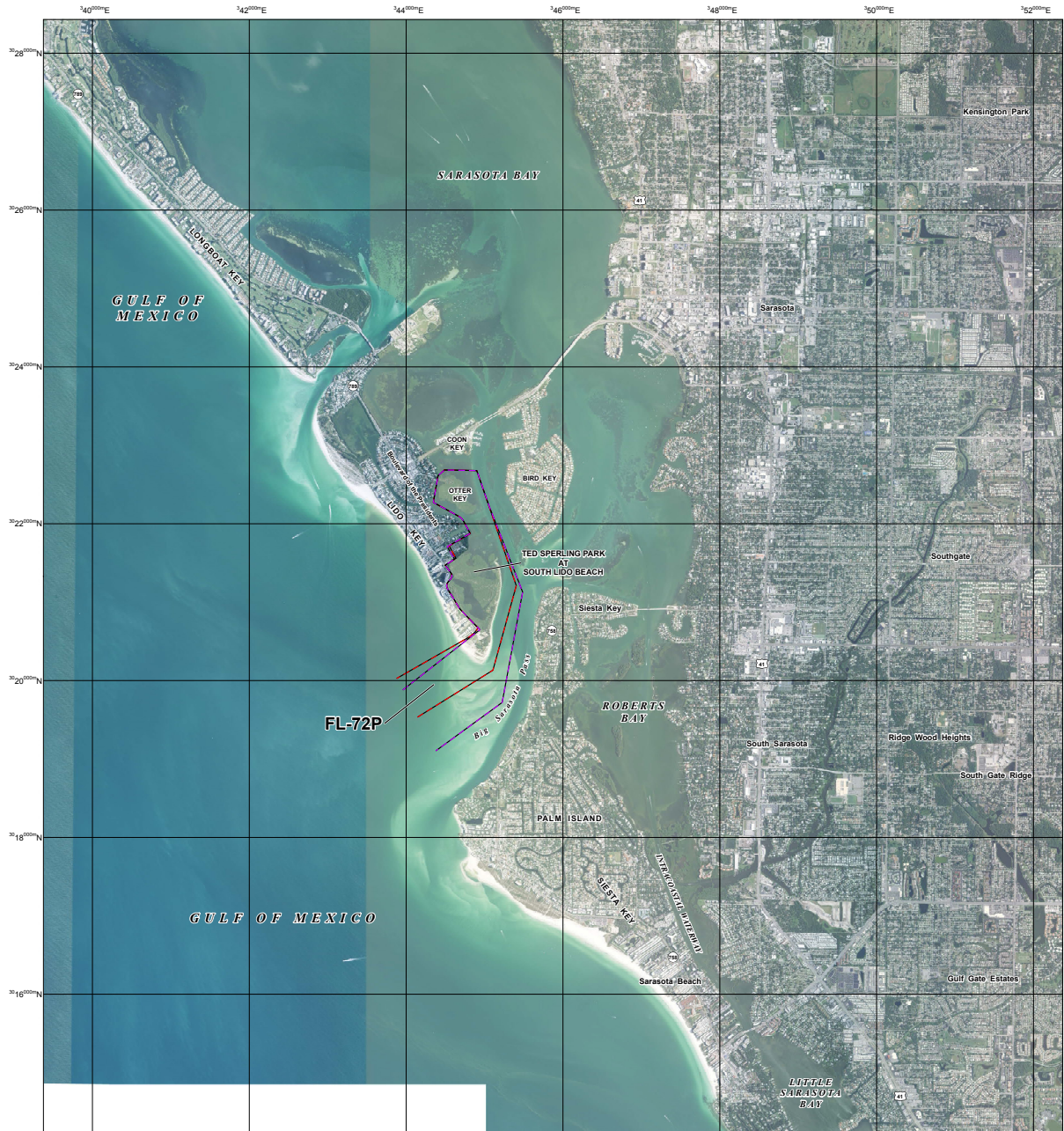
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	349	61	288	0.3	
Added to the CBRS	59	1	58		0
Removed from the CBRS	1	1	0		3
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	407	61	346	0.6	
Net Change	58	0	58	0.3	(3)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier; but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



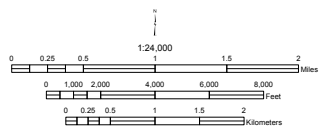
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

Lido Key Unit FL-72P

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 30°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 26 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-73P, De Soto, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: South of St. Petersburg on the Gulf Coast, in Manatee County, Florida

Congressional District: 16

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-73P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-73P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary

of Unit FL-73P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-73P. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-73P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data,

smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Changes to

Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-73P to align with the boundary of the De Soto National Memorial, owned by the National Park Service, and to add to the CBRS the portions of the National Memorial which are not already within the unit. In addition, the boundary of the unit is modified to add to the CBRS the Riverview Pointe Preserve, owned by Manatee County and located on the south side of the National Memorial. The open water component of the existing Unit FL-73P, which is not held for conservation and/or recreation purposes, is recommended for reclassification from an existing OPA to System Unit as part of adjacent Unit FL-78.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acres, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	192	7	185	0.0	
Added to the CBRS	13	10	3		2
Removed from the CBRS	0	0	0		0
Reclassified Area	(169)	0	(169)	0.0	
Final Recommended Unit	36	17	19	0.0	
Net Change	(156)	10	(166)	0.0	2

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

John H. Chafee Coastal Barrier Resources System Unit FL-78, Rattlesnake Key, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of St. Petersburg on the Gulf Coast, in Manatee County, Florida

Congressional District: 16

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-78 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-78.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit FL-78 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act (CBRA) to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot

Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-78. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-78. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

In addition, the boundary of the unit is modified to add to Unit FL-78 a small portion of Emerson Point Preserve (formerly Emerson Point Park), managed by Manatee County, that was proposed on the draft map dated June 12, 2006, for addition to new Otherwise Protected Area (OPA) Unit FL-78P. Manatee County concurred with this area being added to the CBRS as System Unit instead of OPA. Because proposed new Unit FL-78P contained only that portion of Emerson Point Preserve, it no longer exists. Most of the remaining preserve area is currently located within Unit FL-78 and is not recommended for reclassification to OPA because the Preserve was acquired by the State of Florida in 1991 after Unit FL-78 was established. The southwestern boundary of Unit FL-78 is also extended further westward to include additional shoals and the entire Manatee River channel within the CBRS.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-78 to remove from the CBRS one privately owned parcel adjacent to Champlain Bayou that was developed at the time the unit was established, and to add to the CBRS a portion of Emerson Point Preserve that is contiguous with a portion of the Preserve that is currently within the existing unit.

The boundary of the unit is also modified to include the entire width of the Manatee River channel within Unit FL-78. The open water component of the existing Unit FL-73P, which is not held for conservation and/or recreation purposes, is recommended for reclassification from an existing OPA to System Unit FL-78.

Unit FL-78 includes portions of Terra Ceia Aquatic Preserve that are not recommended for reclassification to an OPA. Florida State Aquatic Preserves and Outstanding Florida Waters are generally classified within the CBRS as System Units because they do not meet the CBRA definition of an OPA. Emerson Point Preserve is located partially within Unit FL-78, but is not recommended for reclassification as an OPA because the Preserve was acquired by the State of Florida in 1991 after Unit FL-78 was established. A small tract on the eastern end of Emerson Point Preserve is separated from the main body of the Preserve by an undeveloped private property. Neither the private property nor the separate tract of Preserve property is included within the CBRS.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-78, Rattlesnake Key, Florida (continued)

Acreage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	3,231	55	3,176	4.0	
Added to the CBRS	536	17	519		0
Removed from the CBRS	3	2	1		1
Reclassified Area	169	0	169	0.0	
Final Recommended Unit	3,933	70	3,863	5.0	
Net Change	702	15	687	1.0	(1)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier; but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-82, Bishop Harbor, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: Southeast of St. Petersburg on the Gulf Coast, in Manatee County, Florida

Congressional District: 16

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-82 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-82.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit FL-82 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal

Barrier Resources Act (CBRA) to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-82. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-82. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the northern boundary of Unit

FL-82 is moved back to its original 1990 position due to development affecting the mangrove feature that the proposed boundary on the draft map dated June 12, 2006, was following. The landward boundary of the unit is modified in several places to add areas of mangroves and wetlands.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the landward boundary of Unit FL-82 to add to the CBRS some areas of mangroves and wetlands.

Unit FL-82 currently includes portions of Terra Ceia Preserve State Park, but those portions are not recommended for reclassification to an Otherwise Protected Area (OPA) because the State Park was established in 2004 after this area was first included within the CBRS. Unit FL-82 also currently includes portions of Terra Ceia Aquatic Preserve that are not recommended for reclassification to an OPA. Florida State Aquatic Preserves and Outstanding Florida Waters are generally classified within the CBRS as System Units because they do not meet the CBRA definition of an OPA.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	1,499	26	1,473	4.6	
Added to the CBRS	85	0	85		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	1,584	26	1,558	4.6	
Net Change	85	0	85	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier; but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

De Soto Unit FL-73P
Rattlesnake Key Unit FL-78
Bishop Harbor Unit FL-82

- Existing System Unit Boundary
 - Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
 - Final Recommended System Unit Boundary
 - Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
 - - - - Approximate State Boundary
- 34°40'N 2000-meter Universal Transverse Mercator grid values

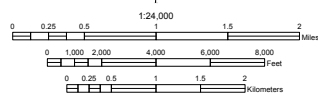
Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 27 March 18, 2016

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbrs



Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-80P, Passage Key, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: Tampa Bay on the Gulf Coast, in Manatee County, Florida

Congressional District: 16

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-80P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-80P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the northern lateral boundary of Unit FL-80P

(via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to extend westward, and the southern lateral boundary to extend southward and westward. These modifications were made to ensure that all of the shoals were clearly within the unit. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-80P. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-80P.

These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit FL-80P, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, makes no changes to the boundary of Unit FL-80P. The unit encompasses Passage Key National Wildlife Refuge, owned by the Service. Passage Key is a low-lying sandbar that fluctuates in size and is mostly underwater.

The Service's final recommended map will only become effective if the updated map is adopted through legislation enacted by Congress.

Acres, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	1,141	0	1,141	1.8	
Added to the CBRS	0	0	0		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	1,141	0	1,141	1.8	
Net Change	0	0	0	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-81, Egmont Key, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of St. Petersburg on the Gulf Coast, in Hillsborough County, Florida

Congressional District: 16*

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-81 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-81.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the southern boundary of Unit FL-81 (via notice published in the *Federal Register* (81 FR 13407)

on March 14, 2016) to account for natural changes that occurred along the shoreline of Egmont Key. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-81. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-81. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit FL-81, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the southern boundary of the northern segment of Unit FL-81 to align with the Egmont Key National Wildlife Refuge boundary. In addition, the boundary of the southern segment of Unit FL-81 is modified to better align with the boundary of the property owned by the Tampa Bay Pilots Association, which is currently within (and recommended to remain within) the CBRS as System Unit. The Tampa Bay Pilots Association also leases approximately five acres from the Service on the north and south side of their property. This leased land is currently within (and recommended to remain within) Otherwise Protected Area Unit FL-81P.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

*This Congressional District will take effect in the 115th Congress.

Acreeage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	294	47	247	0.9	
Added to the CBRS	0	0	0		0
Removed from the CBRS	0	0	0		0
Reclassified Area	(5)	(2)	(3)	0.0	
Final Recommended Unit	289	45	244	0.9	
Net Change	(5)	(2)	(3)	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-81P, Egmont Key, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: South of St. Petersburg on the Gulf Coast, in Hillsborough County, Florida

Congressional District: 16*

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-81P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-81P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the landward boundary of Unit FL-81P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to account for

*This Congressional District will take effect in the 115th Congress.

natural changes that occurred in the configuration of the shoreline along Egmont Key. The southern boundary was moved southward to include more of the sand sharing system associated with Egmont Key. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-81P. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-81P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit FL-81P, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the northern boundary of Unit FL-81P to align with the boundary of Egmont Key National Wildlife Refuge, which is owned by the Service. The shared boundary around the southern segment of adjacent Unit FL-81 is adjusted to align better with the boundary of the property owned by the Tampa Bay Pilots Association. The Tampa Bay Pilots Association also leases approximately five acres from the Service on the north and south side of their property. This leased land is currently within (and recommended to remain within) Unit FL-81P. In addition, the eastern boundary of the unit is modified to move it off the shoreline and align it with the eastern boundary of adjacent System Unit FL-81.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreage, Shoreline, and Structures:

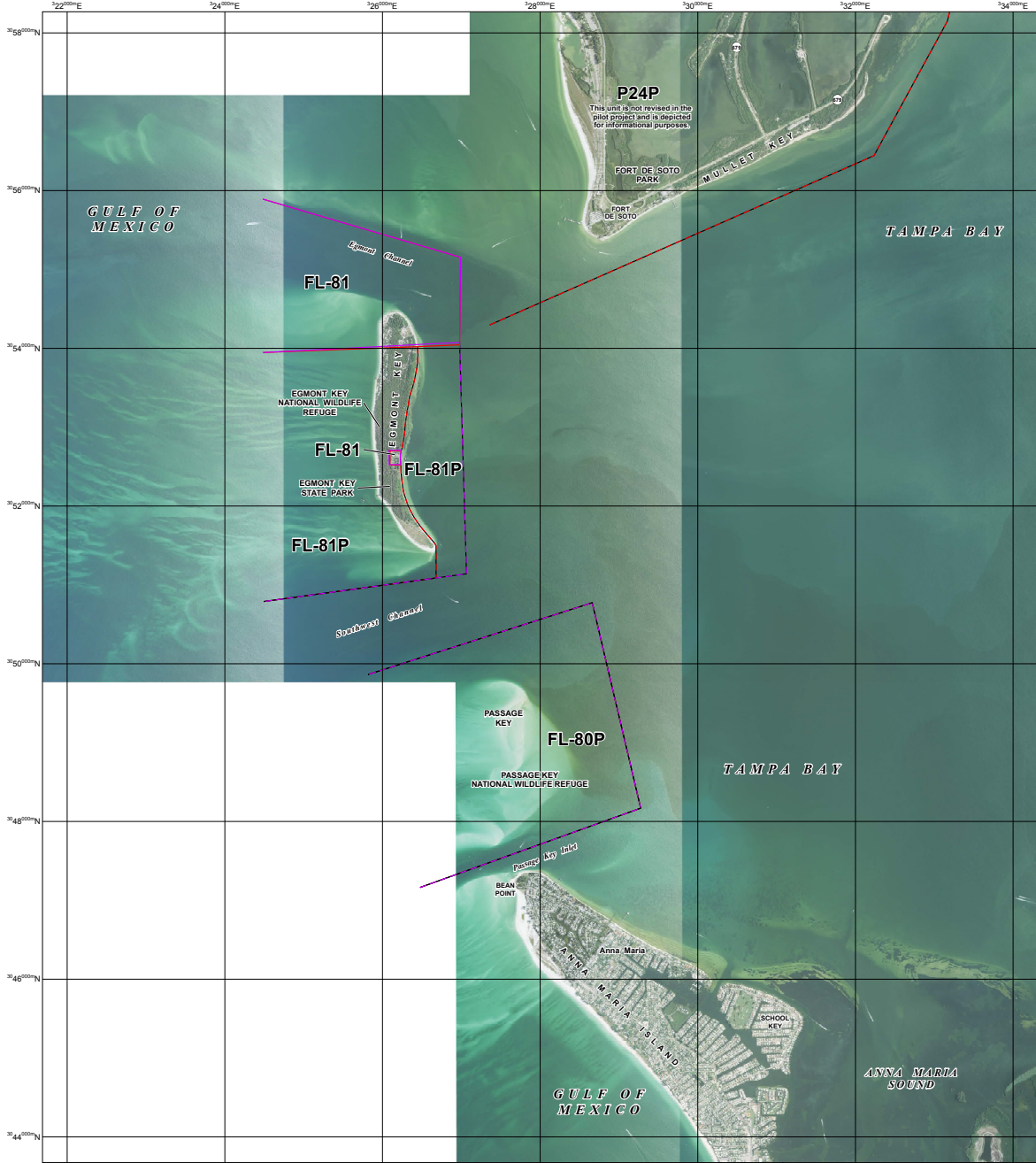
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	237	215	22	2.0	
Added to the CBRS	451	1	450		0
Removed from the CBRS	0	0	0		0
Reclassified Area	5	2	3	0.0	
Final Recommended Unit	693	218	475	2.0	
Net Change	456	3	453	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



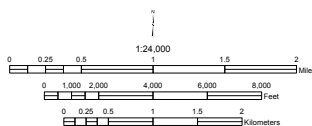
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

**Passage Key Unit FL-80P
Egmont Key Unit FL-81/FL-81P
The Reefs Unit P24P (1 of 2)**

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- - - Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- - - Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - Approximate State Boundary
- 30°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 28 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-83, Cockroach Bay, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: Southeast of St. Petersburg on the Gulf Coast, in Hillsborough County, Florida

Congressional District: 16*

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-83 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-83.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the landward boundary of Unit FL-83 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to account for natural changes that occurred in the configuration of the wetland/fastland interface. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal

Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-83. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-83. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the southeastern and southern boundaries of the unit are modified to add to the CBRS some areas of mangroves and wetlands.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit FL-83, and issued revised maps (see Historical Changes to Unit section above) between 2014

and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-83 to add to the CBRS some areas of mangroves and wetlands in the southern half of the unit beginning on the north side of Cockroach Bay.

Unit FL-83 currently includes portions of Cockroach Bay Preserve State Park and Hillsborough County environmental lands that are held for conservation. Because the State Park and County lands were for the most part acquired for conservation and/or recreation after the unit was established, they will remain within the CBRS as a System Unit and not be reclassified to Otherwise Protected Area (OPA). Unit FL-83 also includes portions of the Cockroach Bay Aquatic Preserve that are not recommended for reclassification to an OPA. Florida State Aquatic Preserves and Outstanding Florida Waters are generally classified within the CBRS as System Units because they do not meet the Coastal Barrier Resources Act definition of an OPA.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

*This Congressional District will take effect in the 115th Congress.

Acreage, Shoreline, and Structures:

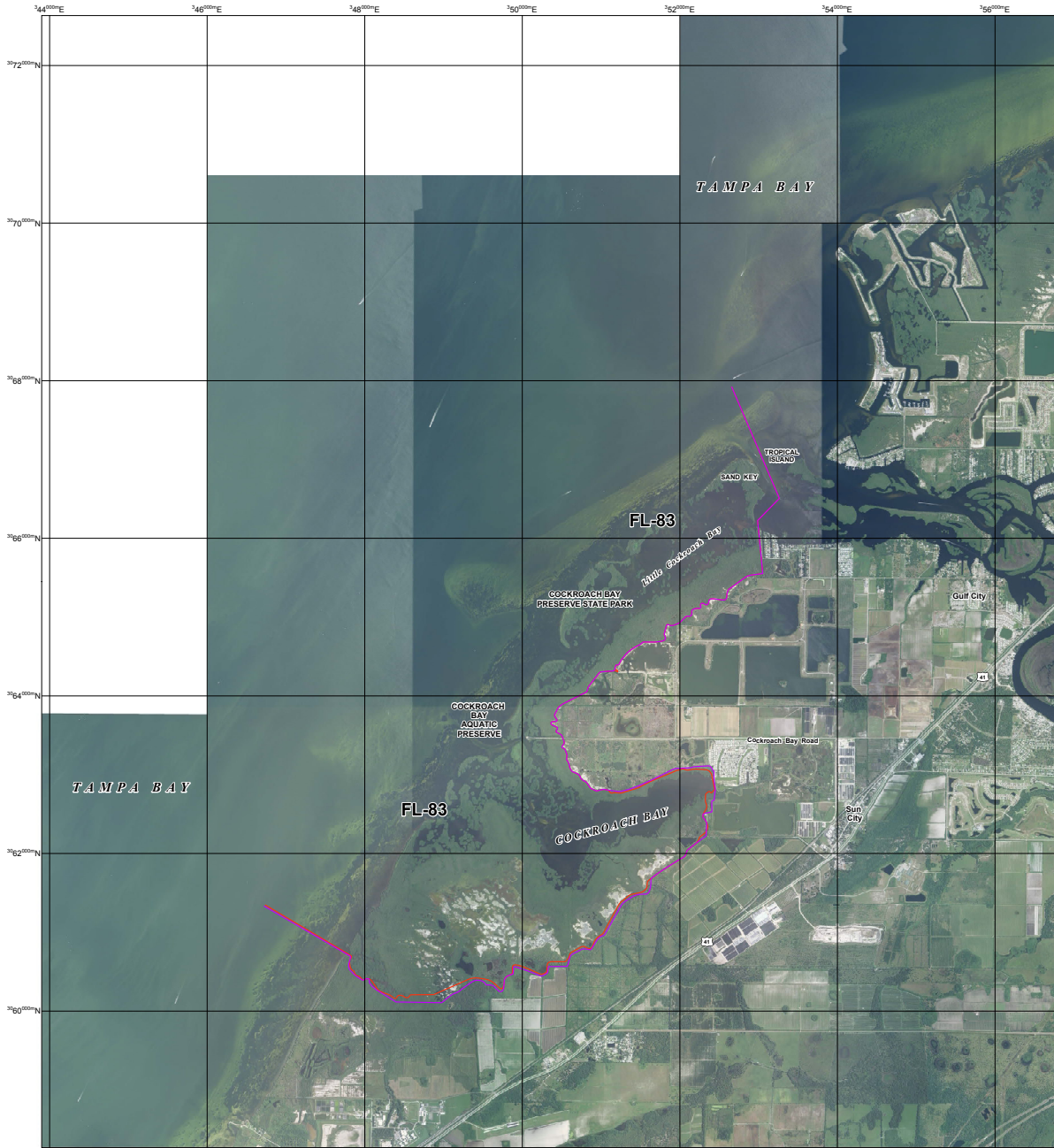
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	3,468	6	3,462	5.5	
Added to the CBRS	64	6	58		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	3,532	12	3,520	5.5	
Net Change	64	6	58	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier; but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



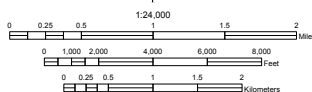
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

Cockroach Bay Unit FL-83

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - Approximate State Boundary
- 3654000N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 29 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-85P, Sand Key, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: West of Tampa on the Gulf Coast, in Pinellas County, Florida

Congressional District: 13

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-85P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-85P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit FL-85P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-85P. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-85P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Changes to Unit:

The final recommended map dated March 18, 2016, modifies the southern boundary of Unit FL-85P to align with the boundaries of Sand Key Park, which is owned by Pinellas County, and recreational property owned by the City of Clearwater.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

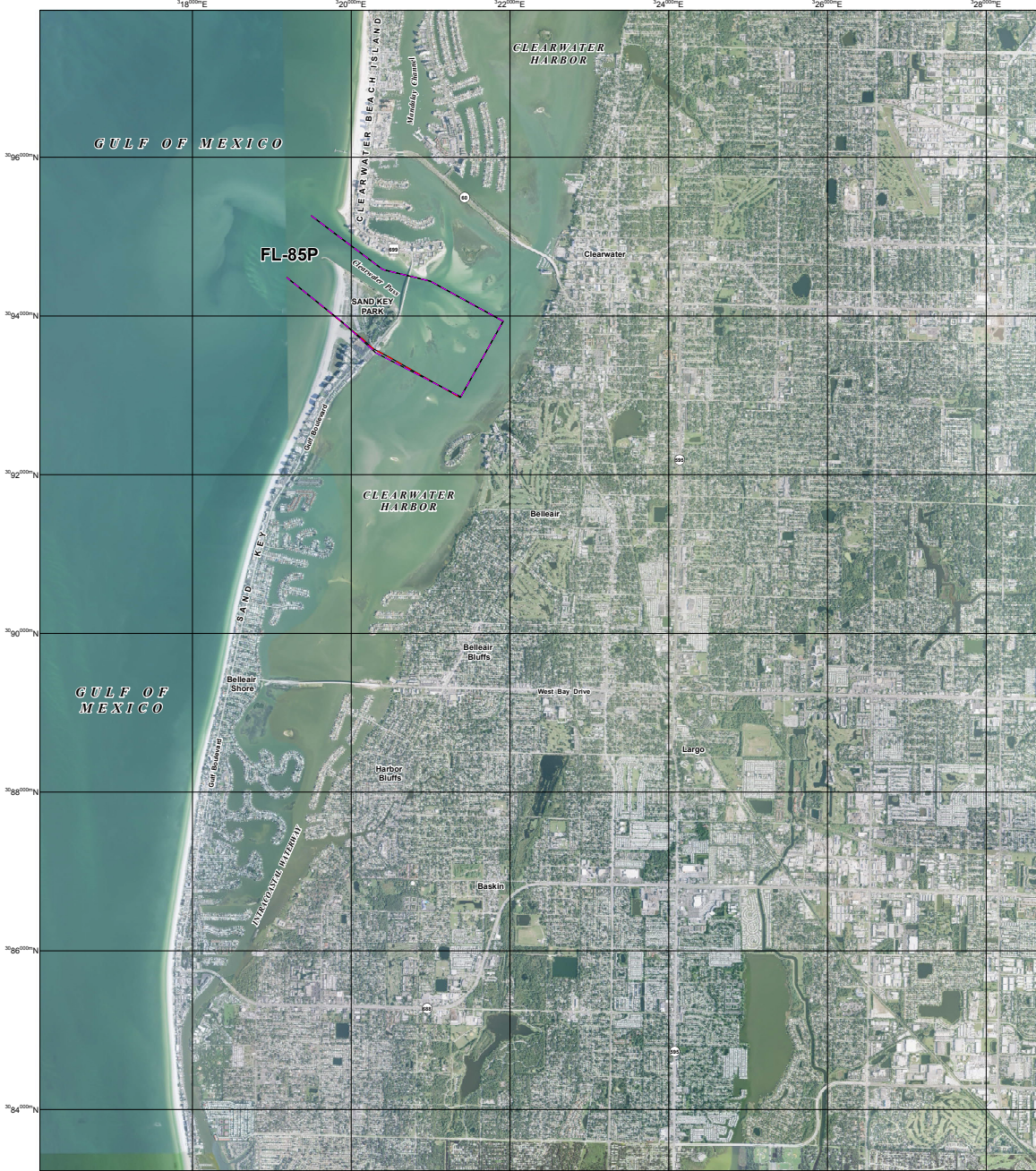
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	521	115	406	0.6	
Added to the CBRS	5	1	4		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	526	116	410	0.6	
Net Change	5	1	4	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



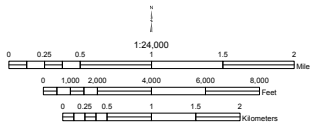
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

Sand Key Unit FL-85P

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-228).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary, OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary, OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 28°40'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 30 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit P26, Pepperfish Keys, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: West of Gainesville on the Gulf Coast, in Dixie County, Florida

Congressional District: 3

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit P26 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Resources Act (CBRA) (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit P26.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated

base map the boundary of Unit P26 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the CBRA to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit P26. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit P26. These

minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit P26 to add to the CBRS the area of associated aquatic habitat located behind Pepperfish Keys.

Unit P26 currently includes portions of the Big Bend Seagrasses Aquatic Preserve that will remain within the unit. Additional portions of this Aquatic Preserve (consisting primarily of shoals and open water) are recommended for addition to Unit P26. Florida State Aquatic Preserves and Outstanding Florida Waters are generally classified within the CBRS as System Units because they do not meet the CBRA definition of an Otherwise Protected Area.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

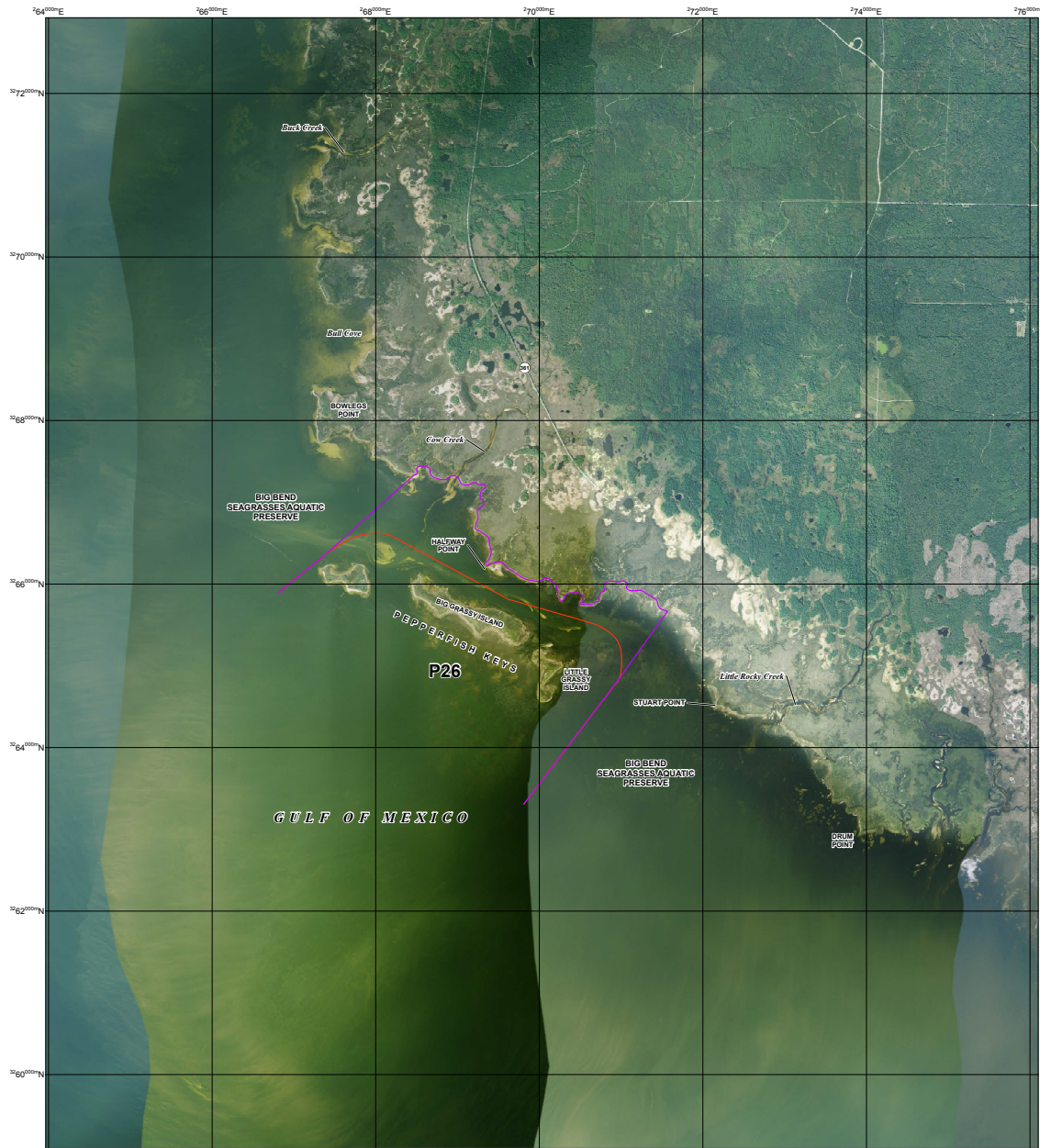
	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	678	107	571	2.7	
Added to the CBRS	543	0	543		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	1,221	107	1,114	2.7	
Net Change	543	0	543	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



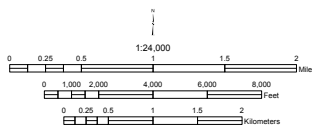
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

Pepperfish Keys Unit P26

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra



- Existing System Unit Boundary
 - Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
 - Final Recommended System Unit Boundary
 - Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
 - - - - Approximate State Boundary
- 264°00'N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 17 North

Pilot Project Draft Map 31 March 18, 2016

John H. Chafee Coastal Barrier Resources System Unit FL-89, Peninsula Point, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of Tallahassee on the Gulf Coast, in Franklin County, Florida

Congressional District: 2

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-89 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-89.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the boundary of Unit FL-89 (via notice published in the *Federal Register* (62 FR 8258) on February 24, 1997) to include within the Coastal Barrier Resources System (CBRS) all of the peninsula that is prograding to the north across the mouth of Alligator Harbor and the associated aquatic habitat. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

The Service modified the landward boundary and the western lateral boundary of Unit FL-89 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to be further north and west to account for accretion at the western tip of Peninsula Point. The southern lateral boundary of the unit was extended offshore to clarify the extent of the unit. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-89. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-89. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including

Unit FL-89, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-89 to remove from the CBRS a portion of a private property (comprising less than one acre and including one structure) in the Alligator Point subdivision. The boundary of the unit is also modified to include a barrier feature on the mainland that Peninsula Point (at the tip of Alligator Point) is accreting toward and to add the associated aquatic habitat with this feature.

Most of the land currently within Unit FL-89 is the John S. Phipps Preserve, owned by The Nature Conservancy, a private conservation organization. The boundary of the unit is modified to add to the CBRS the portions of the area owned by The Nature Conservancy that are not already within the unit. The Nature Conservancy's property is not recommended for reclassification to an Otherwise Protected Area, although it was held for conservation when Unit FL-89 was established. There is evidence in the Service's records that, in 1990, this privately owned conservation area was deliberately included by Congress within the CBRS as a System Unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-89, Peninsula Point, Florida (continued)

Acreage, Shoreline, and Structures:

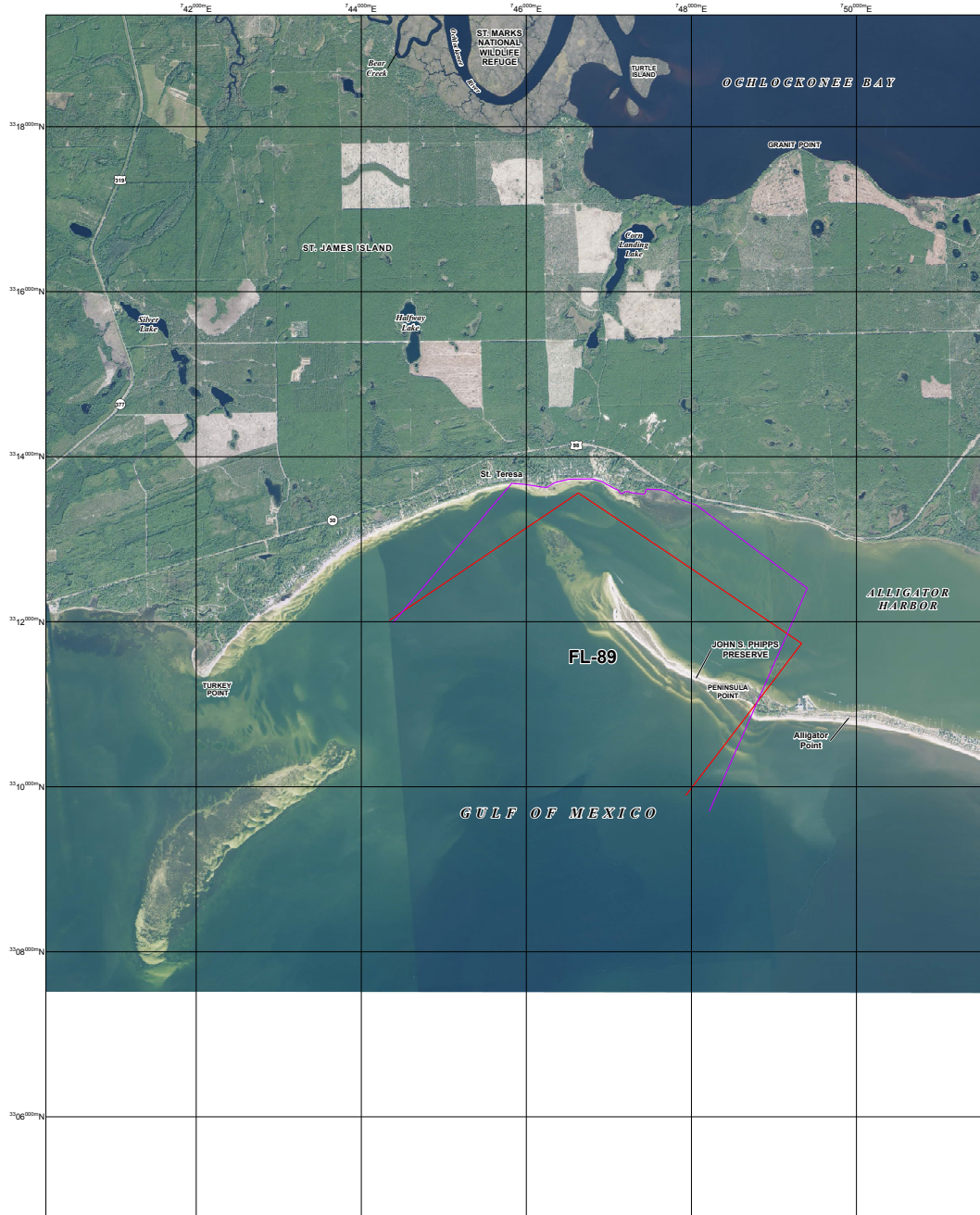
	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	767	10	757	2.2	
Added to the CBRS	457	6	451		0
Removed from the CBRS	22	0	22		1
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	1,202	16	1,186	2.6	
Net Change	435	6	429	0.4	(1)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



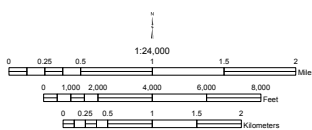
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

Peninsula Point Unit FL-89

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - Approximate State Boundary
- 31°54'00"N 2000-meter Universal Transverse Mercator grid values
- Imagery Date(s): 2013
- Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
- Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 16 North

Pilot Project Draft Map 32 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-93, Phillips Inlet, Florida

Summary of Final Recommended Changes

Type of Unit: Recommended new System Unit

Location of Unit: Northwest of Panama City on the Gulf Coast, in Bay County, Florida

Congressional District: 2

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-93 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The majority of the area recommended for inclusion within new System Unit FL-93 is currently within existing Otherwise Protected Area (OPA) Unit FL-93P, which was established by the Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990). The remainder of the area recommended for inclusion within the new unit is currently not within the Coastal Barrier Resources System (CBRS).

The Fish and Wildlife Service's (Service) review found no documentation indicating that this area is held for conservation and/or recreation (in accordance with the Coastal Barrier Resources Act definition of an OPA). However, all areas within recommended new Unit FL-93 either qualified at the time they were first included within the CBRS or, for those areas newly added to the CBRS, currently qualify for inclusion within a System Unit.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-93. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-93. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and

simplification of the boundary, and fitting the boundary to updated base map imagery. The boundary of Unit FL-93 is also modified to add a small area of wetlands along the Powell Lake shoreline and to follow parcel data instead of a development boundary along the north side of the Pinnacle Port condominium property. In addition, minor portions of a private beach that had been proposed to be reclassified to System Unit on the draft map dated June 12, 2006, are now recommended to remain within OPA Unit FL-93P because it is impractical to delineate them as System Unit. Similarly, minor portions of Camp Helen State Park are included within Unit FL-93 where it is impractical to delineate them as OPA.

Final Recommended Unit: The final recommended map dated March 18, 2016, creates new System Unit FL-93. Included within this new unit are the following areas: undeveloped private property (comprising approximately 39 acres) on the east side of Powell Lake near Phillips Inlet and the portion of Powell Lake south of U.S. Highway 98.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	0	0	0	0.0	
Added to the CBRS	1	1	0		0
Removed from the CBRS	0	0	0		0
Reclassified Area	123	30	93	0.0	
Final Recommended Unit	124	31	93	0.0	
Net Change	124	31	93	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

John H. Chafee Coastal Barrier Resources System Unit FL-93P, Phillips Inlet, Florida

Summary of Final Recommended Changes

Type of Unit: Otherwise Protected Area (OPA)

Location of Unit: Northwest of Panama City on the Gulf Coast, in Bay County, Florida

Congressional District: 2

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-93P is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-93P.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit FL-93P (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act (CBRA) to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural

forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-93P. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-93P. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, minor portions of a private beach that had been proposed to be reclassified to System Unit on the draft map dated June 12, 2006, are now recommended to remain within OPA Unit FL-93P because it is impractical to delineate them as System Unit. Similarly, minor portions of Camp Helen State Park are included within Unit FL-93 where it is impractical to delineate them as OPA.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the

boundary of Unit FL-93P to remove from the CBRS four condominium buildings and several associated structures in the Pinnacle Port community; nine structures in the Carillion Beach subdivision; and about 25 undeveloped private properties in the vicinity of Parkshore Court, Parkshore Drive, and Cottage Court.

The boundary of the unit is also modified to align with the boundary of Camp Helen State Park and to add to the CBRS the portions of the State Park which are not already within the unit. Minor portions of private property are included within Unit FL-93P where it is impractical from a mapping perspective to delineate them as System Unit. Similarly, minor portions of the State Park are included within Unit FL-93 where it is impractical to delineate them as OPA.

The following areas currently within OPA Unit FL-93P are recommended for reclassification to System Unit FL-93: undeveloped private property (comprising approximately 39 acres) on the east side of Powell Lake near Phillips Inlet and the portion of Powell Lake south of U.S. Highway 98. The Service's review found no documentation indicating that these areas are held for conservation and/or recreation (in accordance with the CBRA definition of an OPA); however, they do qualify for inclusion within a System Unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-93P, Phillips Inlet, Florida (continued)

Acreage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	239	81	158	0.5	
Added to the CBRS	157	94	63		14
Removed from the CBRS	13	12	1		17
Reclassified Area	(123)	(30)	(93)	0.0	
Final Recommended Unit	260	133	127	0.5	
Net Change	21	52	(31)	0.0	(3)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit FL-94, Deer Lake Complex, Florida

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: North of Panama City on the Gulf Coast, in Walton County, Florida

Congressional District: 1

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit FL-94 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2013

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit FL-94.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the westernmost portion of the landward boundary of Unit FL-94 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to reflect natural changes in the wetlands along the shoreline of an unnamed pond. In addition, the boundary following the eastern shoreline of Deer Lake and the boundary along the central segment of the unit were modified to reflect natural changes that occurred in the

configuration of the wetland/fastland interface. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the Coastal Barrier Resources System (CBRS) boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit FL-94. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit FL-94. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. The boundary of the unit is also modified to add to the CBRS wetlands near Deer Lake.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit FL-94, and issued revised

maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit FL-94 to remove from the CBRS three buildings (comprising 31 residences) in the Beachfront Townhomes and Walton Dunes Townhomes subdivisions.

In addition, the eastern boundary of the unit is modified to follow a vegetative break on the south side of Camp Creek Lake and the lateral boundary of the unit is aligned to be perpendicular to the barrier shoreline. The northern boundary of the unit is modified to add to the CBRS wetlands near Deer Lake, to remove from the CBRS a small area of uplands on the northeast side of Deer Lake, and to align with Lakewood Drive.

Deer Lake State Park is located partially within Unit FL-94 but is not recommended for reclassification as an Otherwise Protected Area because the State Park was acquired in 1996 after Unit FL-94 was established.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

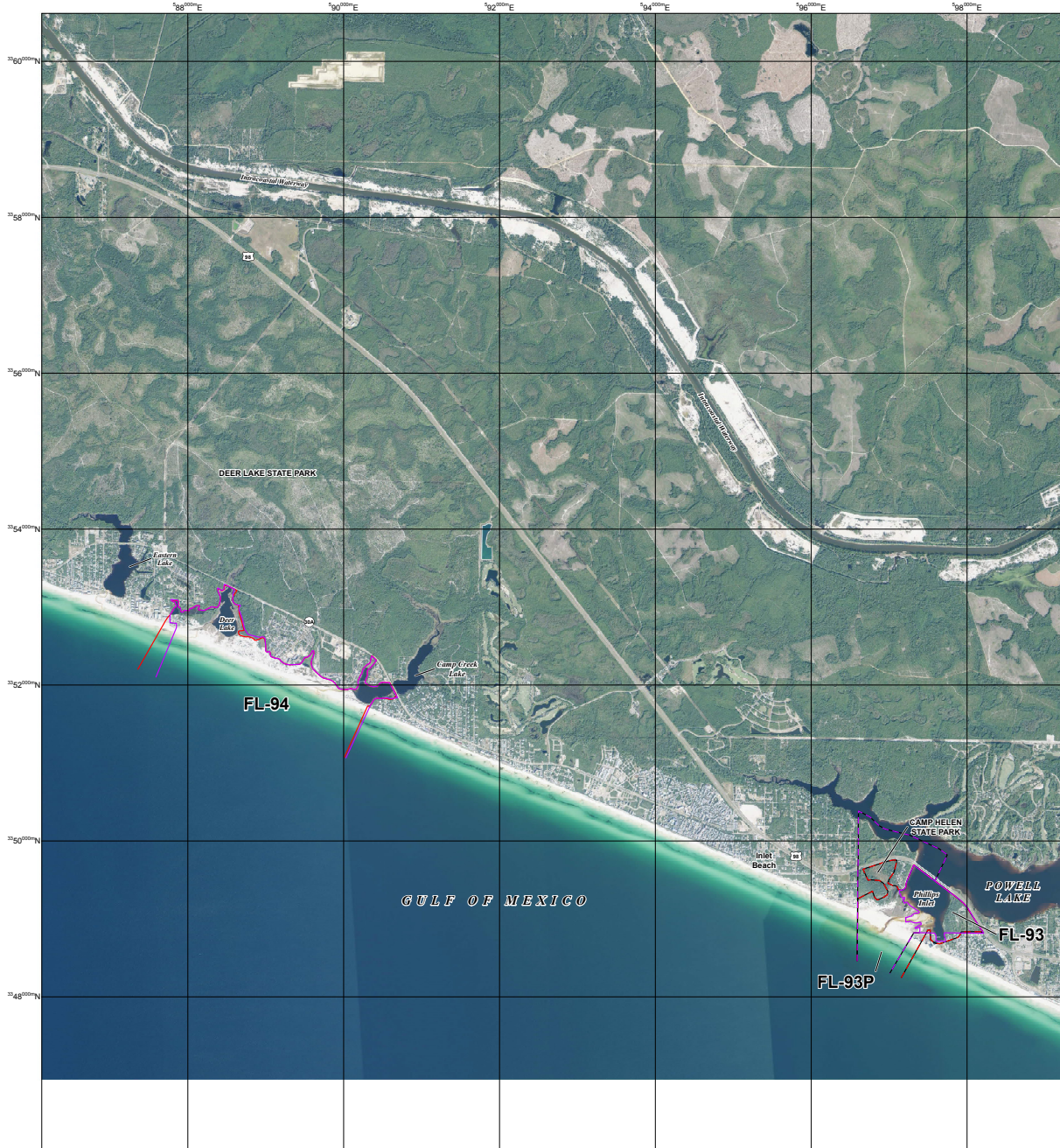
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	264	159	105	2.1	
Added to the CBRS	5	2	3		0
Removed from the CBRS	8	6	2		3
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	261	155	106	1.7	
Net Change	(3)	(4)	1	(0.4)	(3)

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier; but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

**Phillips Inlet Unit FL-93/FL-93P
Deer Lake Complex FL-94**

- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - Approximate State Boundary
- 24°42'00"N 2000-meter Universal Transverse Mercator grid values

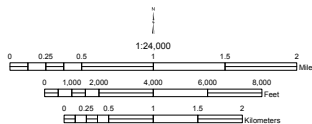
Imagery Date(s): 2013
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 16 North

Pilot Project Draft Map 33 March 18, 2016

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit LA-01, Isle au Pitre, Louisiana

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: East of New Orleans, in St. Bernard Parish, Louisiana

Congressional District: 1

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit LA-01 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2015

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November

16, 1990) originally established Unit LA-01.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit LA-01 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit LA-01. For a summary of the comments

received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: There are no changes between the proposed boundary of Unit LA-01 depicted on the draft map dated June 12, 2006, and the final recommended boundary of the unit depicted on the map dated March 18, 2016.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, makes no changes to the boundary of Unit LA-01.

The Service's final recommended map will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	4,851	0	4,851	4.5	
Added to the CBRS	0	0	0		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	4,851	0	4,851	4.5	
Net Change	0	0	0	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

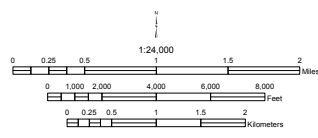
Isle au Pitre Unit LA-01

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.

- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary



Imagery Date(s): 2015
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 16 North

Pilot Project Draft Map 34 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit LA-02, Half Moon Island, Louisiana

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: East of New Orleans, in St. Bernard Parish, Louisiana

Congressional District: 1

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit LA-02 is depicted on one map.

Base Map Imagery Source and Dates: U.S. Department of Agriculture, National Agriculture Imagery Program, 2014 and 2015

Establishment of Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) originally established Unit LA-02.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) transferred and fitted to an updated base map the boundary of Unit LA-02 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) in association with the requirement in the Coastal Barrier Resources Act to review the maps of the Coastal Barrier Resources System (CBRS) at least once every five years and make any modifications to the boundaries to reflect changes that have occurred as a result of natural forces. No modifications were made to the boundary of the unit at that time.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit LA-02. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier*

Resources System Digital Mapping Pilot Project.

Changes between Proposed and Final Recommended Boundaries:

Minor modifications are made to the boundaries of most units in the pilot project, including Unit LA-02. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery.

Final Recommended Changes to Unit:

The final recommended map dated March 18, 2016, makes no changes to the boundary of Unit LA-02. However, the name of Unit LA-02 is changed from "Grand Island" to "Half Moon Island" to correctly identify the underlying barrier feature.

The Service's final recommended map will only become effective if the updated map is adopted through legislation enacted by Congress.

Acres, Shoreline, and Structures:

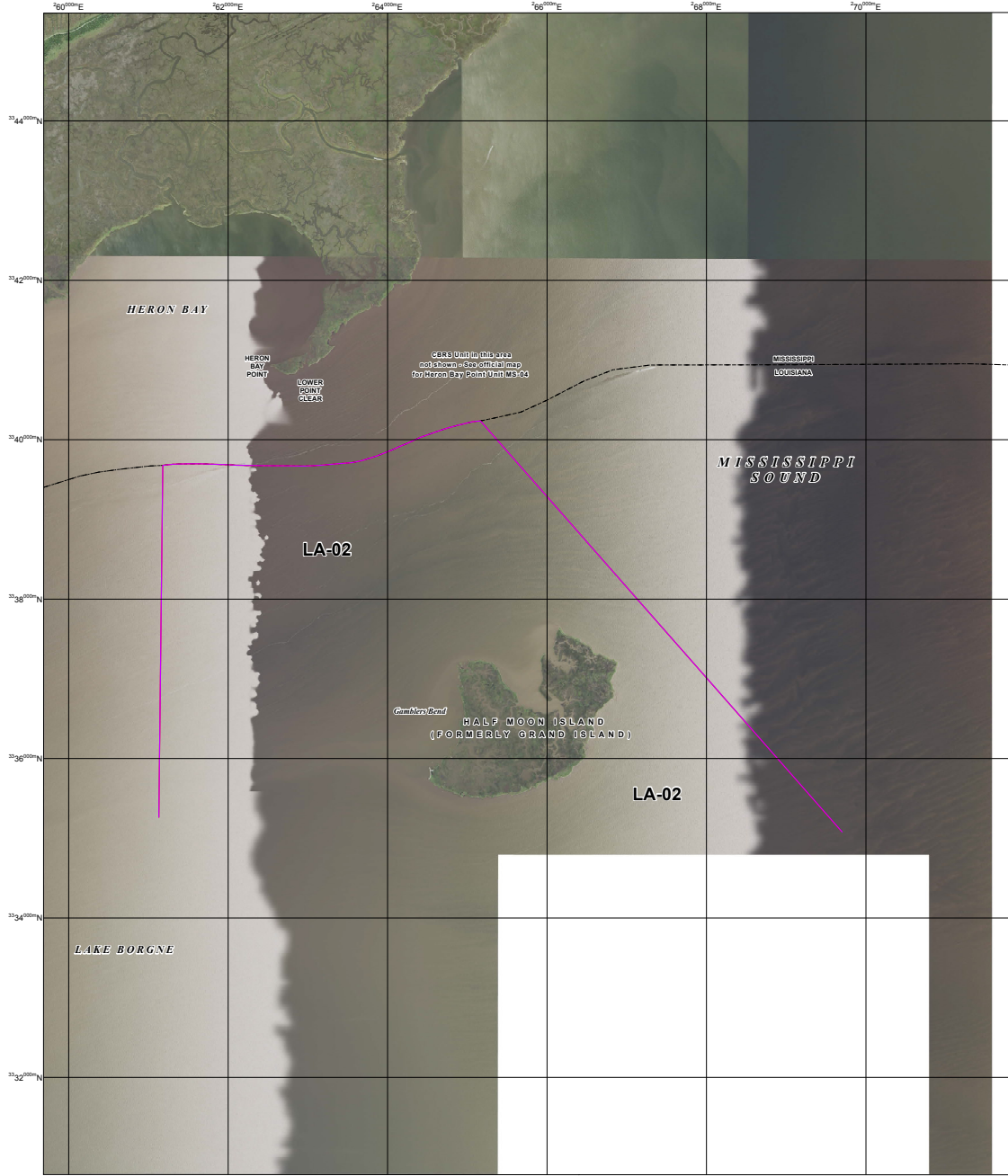
	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	5,634	0	5,634	4.7	
Added to the CBRS	0	0	0		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	5,634	0	5,634	4.7	
Net Change	0	0	0	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



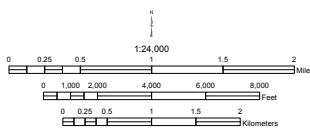
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

Half Moon Island Unit LA-02

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-228).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- - - Existing Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- - - Final Recommended Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- - - Approximate State Boundary
- 30°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2014, 2015
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 16 North

Pilot Project Draft Map 35 March 18, 2016

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit S04, Timbalier Bay, Louisiana

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of New Orleans, in Lafourche Parish, Louisiana

Congressional District: 1

Date of Final Recommended Map: March 18, 2016

Number of Maps: Unit S04 is depicted on one map.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2015

Establishment of Unit: The Coastal Barrier Resources Act (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit S04.

Historical Changes to Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the boundary of Unit S04 to add to the Coastal Barrier Resources System (CBRS) associated aquatic habitat. In addition, the eastern portion of Unit S04 was added to Unit S03.

The U.S. Fish and Wildlife Service (Service) modified the eastern boundary of Unit S04 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to account for channel migration and wetlands erosion along Bayou Lafourche and Belle Pass. A portion of the northern boundary following an inlet to Devils Bay was modified to account for channel migration and wetlands erosion. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit S04. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit S04. These minor modifications may include, but are not limited to: better alignment

of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. The updated base map imagery for the final recommended map shows significant erosion has occurred in Unit S04 since 1998, which is the date of the base map imagery used for the draft map dated June 12, 2006.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit S04, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended map dated March 18, 2016, modifies the boundary of Unit S04 to add to the CBRS the entire width of the channel of Belle Pass on the southeastern side of the unit and Havoline Canal on the northeastern side of the unit.

The Service's final recommended map depicts changes to the CBRS that will only become effective if the updated map is adopted through legislation enacted by Congress.

Acreeage, Shoreline, and Structures:

	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	9,822	106	9,716	4.0	
Added to the CBRS	169	0	169		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	9,991	106	9,885	4.2	
Net Change	169	0	169	0.2	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier; but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit S05, Timbalier Islands, Louisiana

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of New Orleans, in Terrebonne and Lafourche Parishes, Louisiana

Congressional District: 1

Date of Final Recommended Maps: March 18, 2016

Number of Maps: Unit S05 is depicted on three maps.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2015

Establishment of Unit: The Coastal Barrier Resources Act (CBRA) (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit S05.

Historical Changes to Unit: The Coastal Barrier Improvement Act (Pub L. 101-591 enacted on November 16, 1990) modified the boundary of Unit S05 to add to the

Coastal Barrier Resources System (CBRS) associated aquatic habitat and East Timbalier Island.

The U.S. Fish and Wildlife Service (Service) modified the northern boundary of Unit S05 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to account for the migration of Timbalier Island and East Timbalier Island and to include associated shoals within the CBRS. The western boundary of the unit was also moved westward to account for the migration of Timbalier Island. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit S05. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries:

The northern boundary of Unit S05 has been modified to account for the migration of Timbalier Island and East Timbalier Island and to include associated shoals within the CBRS. The updated base map imagery for the final recommended maps shows significant erosion has occurred in Unit S05 since 1998, which is the date of the base map imagery used for the draft map dated June 12, 2006.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit S05, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit:

The final recommended map dated March 18, 2016, makes no changes to the boundary of Unit S05.

The Service's final recommended maps will only become effective if the updated maps are adopted through legislation enacted by Congress.

Acreage, Shoreline, and Structures:

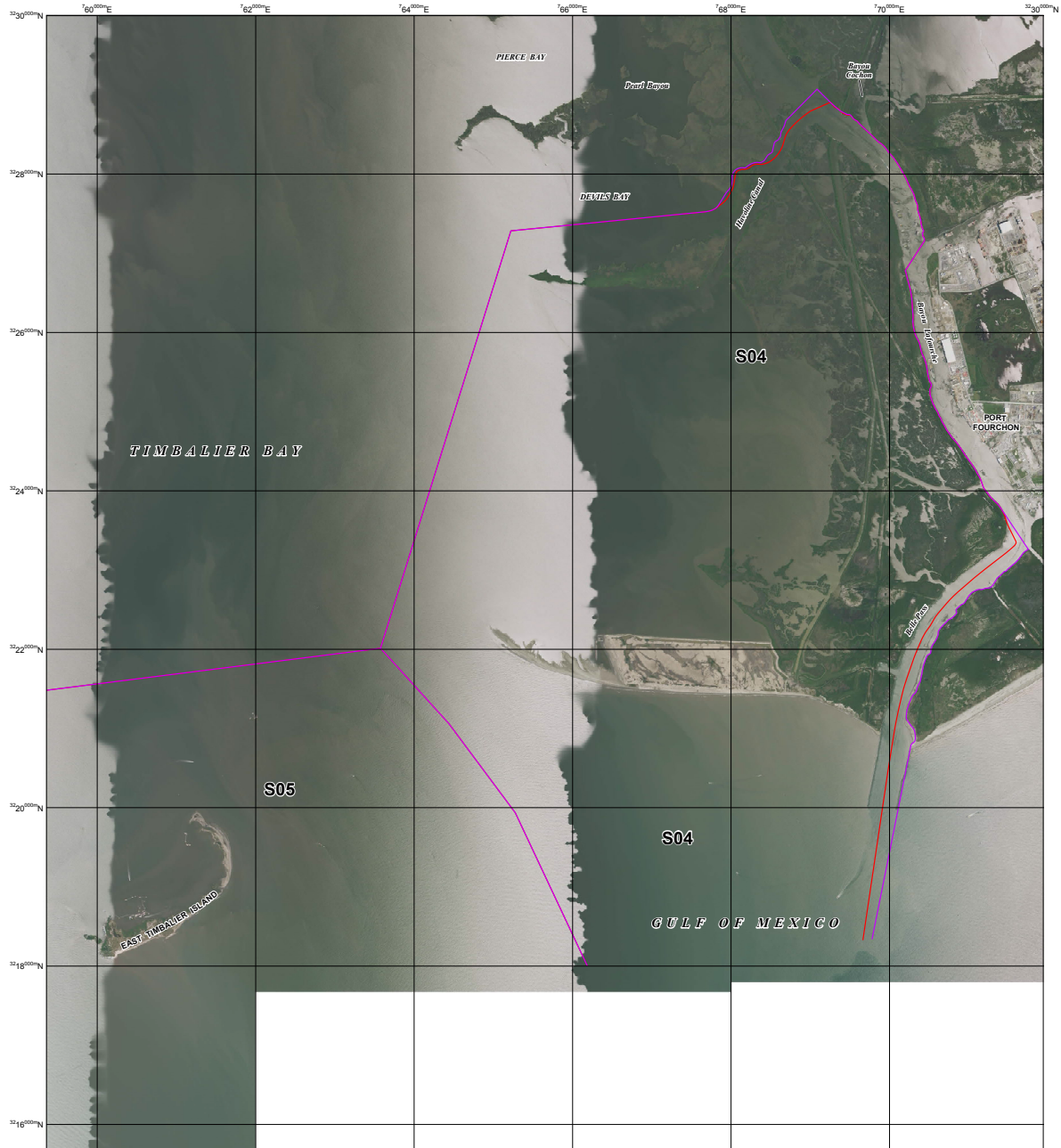
	Total Acres	Fastland Acres ¹	Associated Aquatic Habitat Acres ²	Shoreline (Miles)	Structures ³
Existing Unit	21,548	485	21,063	19.5	
Added to the CBRS	0	0	0		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	21,548	485	21,063	19.5	
Net Change	0	0	0	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



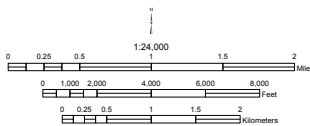
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

Timbalier Bay Unit S04
Timbalier Islands Unit S05 (1 of 3)

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- - - - Approximate State Boundary
- 200-meter Universal Transverse Mercator grid values
- Imagery Date(s): 2015
- Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
- Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 15 North

Pilot Project Draft Map 36 March 18, 2016

Existing and Final Recommended Boundaries



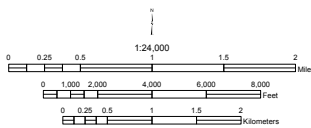
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

Timbalier Islands Unit S05 (2 of 3)

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbrr.

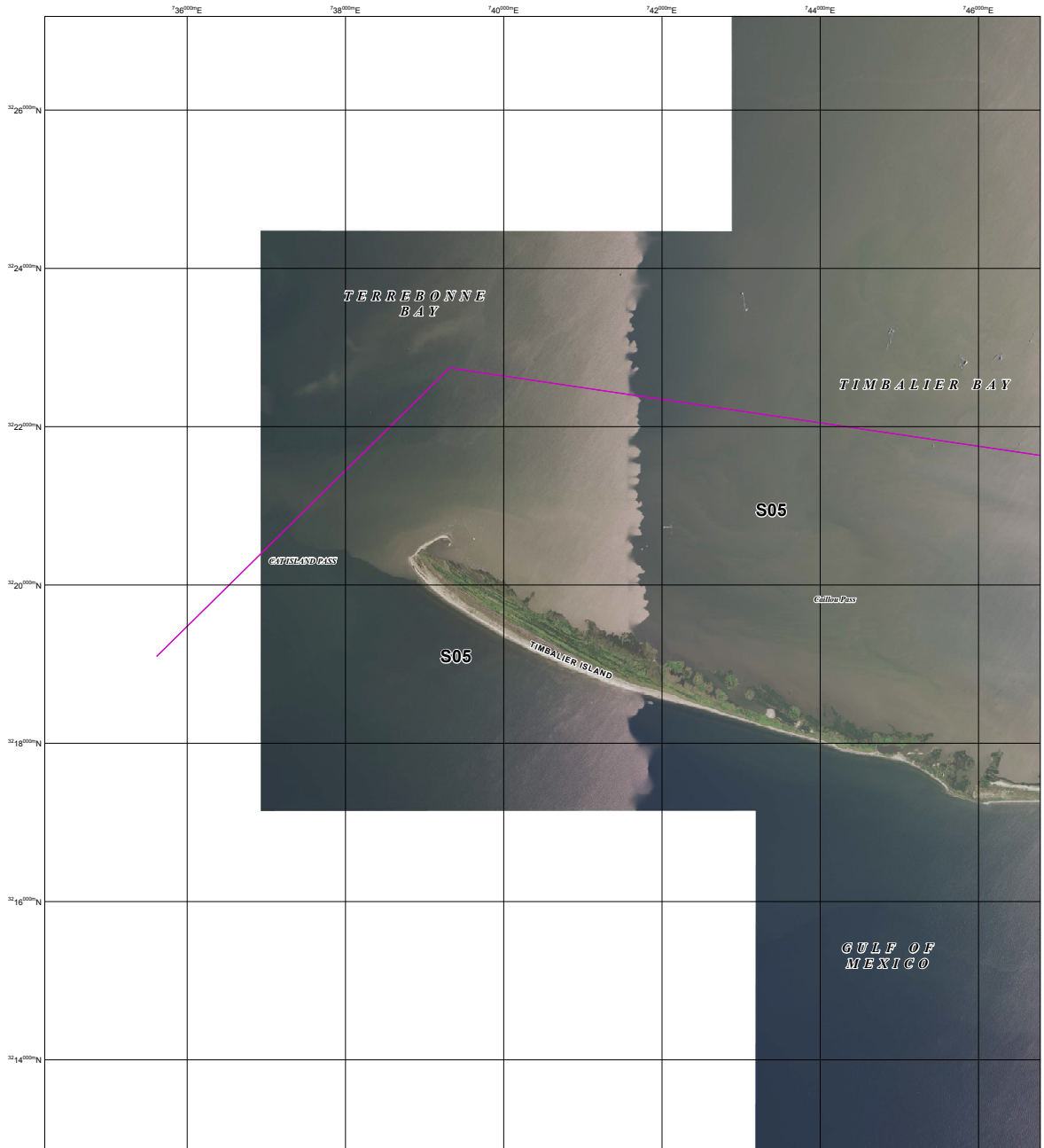


- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 29°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2015
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 15 North

Pilot Project Draft Map 37 March 18, 2016

Existing and Final Recommended Boundaries



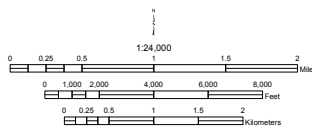
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

Timbalier Islands Unit S05 (3 of 3)

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 32°4'00"N 2000-meter Universal Transverse Mercator grid values
- Imagery Date(s): 2015
- Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
- Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 15 North

Pilot Project Draft Map 38 March 18, 2016

John H. Chafee Coastal Barrier Resources System Unit S06, Isles Dernieres, Louisiana

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of New Orleans, in Terrebonne Parish, Louisiana

Congressional District: 1

Date of Final Recommended Maps: March 18, 2016

Number of Maps: Unit S06 is depicted on three maps.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2015

Establishment of Unit: The Coastal Barrier Resources Act (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit S06.

Historical Changes to Unit: The U.S. Fish and Wildlife Service (Service) modified the hatching symbol on the Coastal Barrier Resources System (CBRS) map for Unit S06 (via notice published in the *Federal Register* (48 FR 17406) on April 22, 1983). This administrative change clarified that the area located within Unit S06 included the accreted spit at the westernmost tip of Isles Dernieres. There was no change to the boundary of Unit S06. This modification was made in accordance with Section 4(c)(1) of Pub. L. 97-348, which allowed minor and technical boundary modifications as necessary to clarify the boundaries of the units.

The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the

boundary of Unit S06 to add to the CBRS associated aquatic habitat.

The Service modified the northeastern boundary of Unit S06 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to account for the migration of the Isles Dernieres. The northern boundary of the unit was modified and generalized to account for wetlands erosion along Grand Pass des Ilettes. The western boundary of the unit was moved northwestward to account for the migration of the Isles Dernieres. The eastern boundary of the unit was extended offshore to clarify the extent of the unit. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit S06. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit S06. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. The updated base map imagery for the final recommended maps shows

significant erosion has occurred in Unit S06 since 1998, which is the date of the base map imagery used for the draft map dated June 12, 2006. In addition, the northern boundary of the unit was modified to follow a more prominent channel in an area experiencing significant erosion and to add an area of associated aquatic habitat north of Grand Pass des Ilettes. The western boundary was moved westward and the eastern boundary northward of the Isles Dernieres to account for the migration of the islands.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit S06, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended maps dated March 18, 2016, modify the northern boundary of Unit S06 to add to the CBRS an area of associated aquatic habitat north of Grand Pass des Ilettes and to include within the CBRS the entire width of the channels (e.g., Grand Pass des Ilettes) through the wetlands.

Although Isles Dernieres Barrier Islands Refuge (which is a wildlife refuge owned by the State) is within Unit S06, the Refuge is not recommended for reclassification as an Otherwise Protected Area because it first became a wildlife refuge in 1992 after Unit S06 was established.

The Service's final recommended maps depict changes to the CBRS that will only become effective if the updated maps are adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit S06, Isles Dernieres, Louisiana (continued)

Acreage, Shoreline, and Structures:

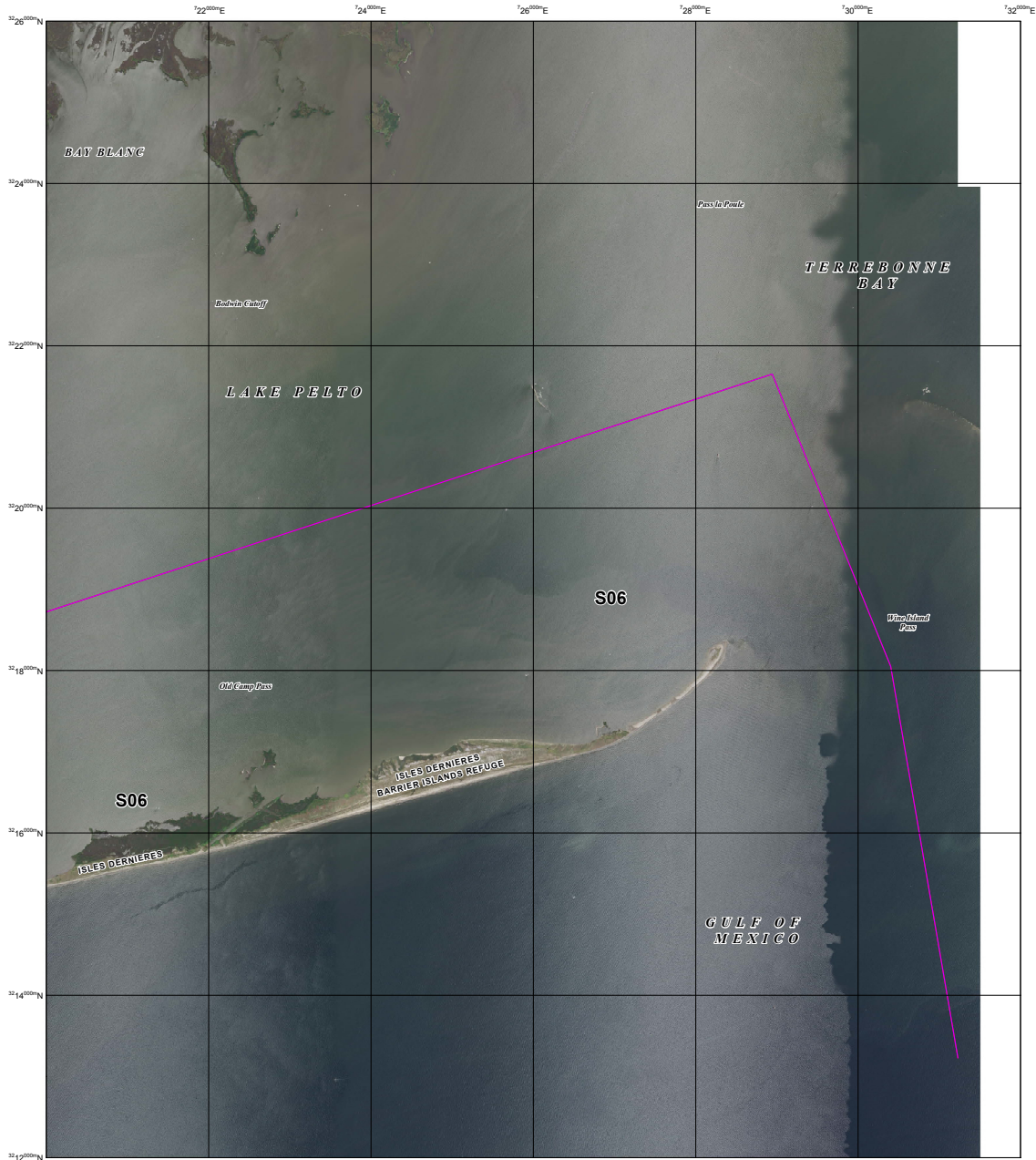
	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	37,327	16	37,311	21.4	
Added to the CBRS	1,080	0	1,080		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	38,407	16	38,391	21.4	
Net Change	1,080	0	1,080	0.0	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



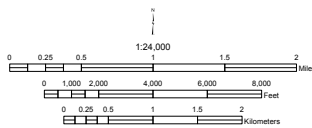
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

Isles Dernieres Unit S06 (1 of 3)

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbrs.

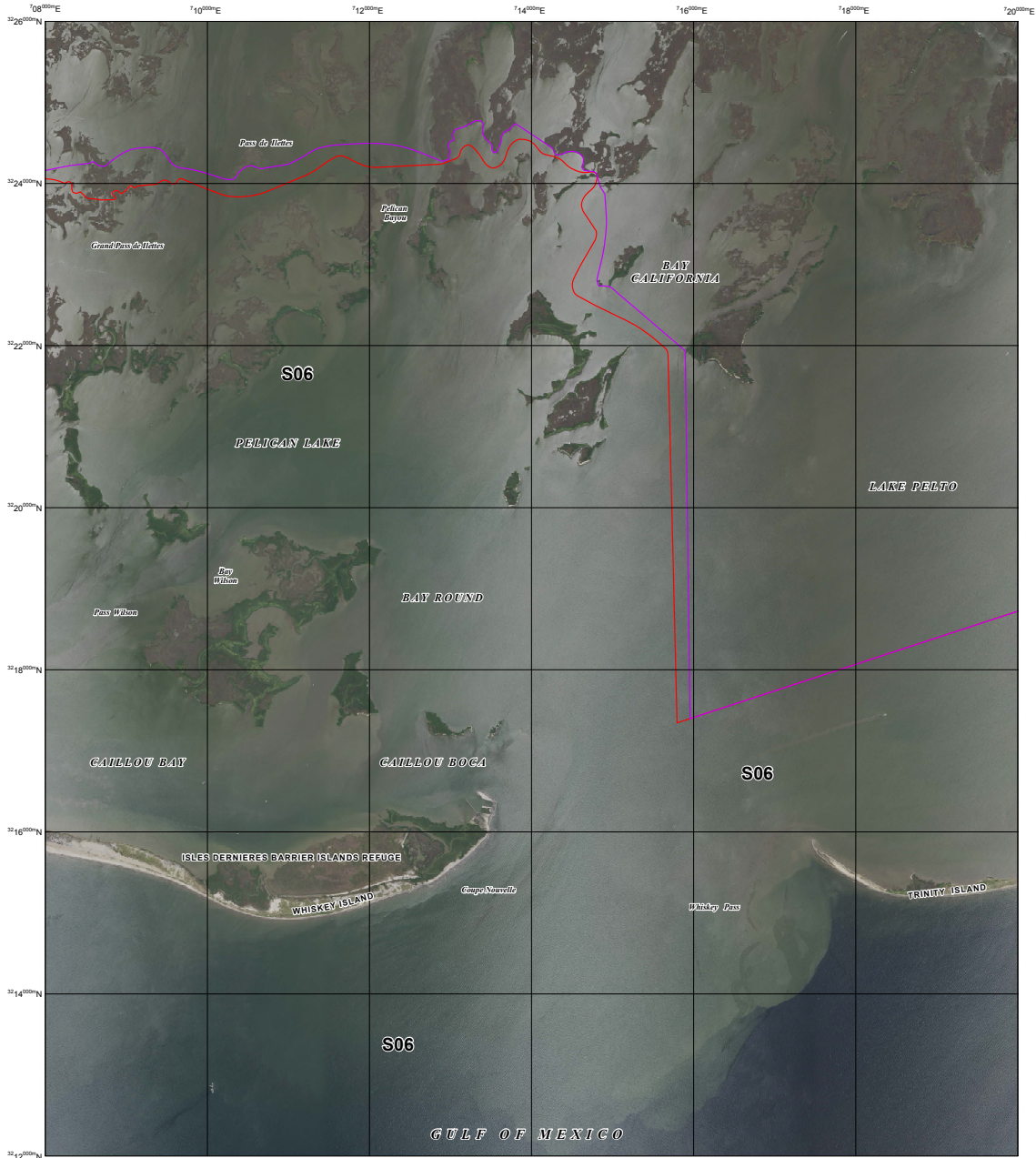


- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- $32^{\circ}54'00''N$ 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2015
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 15 North

Pilot Project Draft Map 39 March 18, 2016

Existing and Final Recommended Boundaries



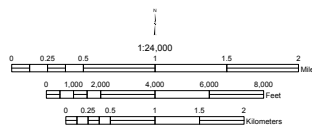
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

Isles Dernieres Unit S06 (2 of 3)

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

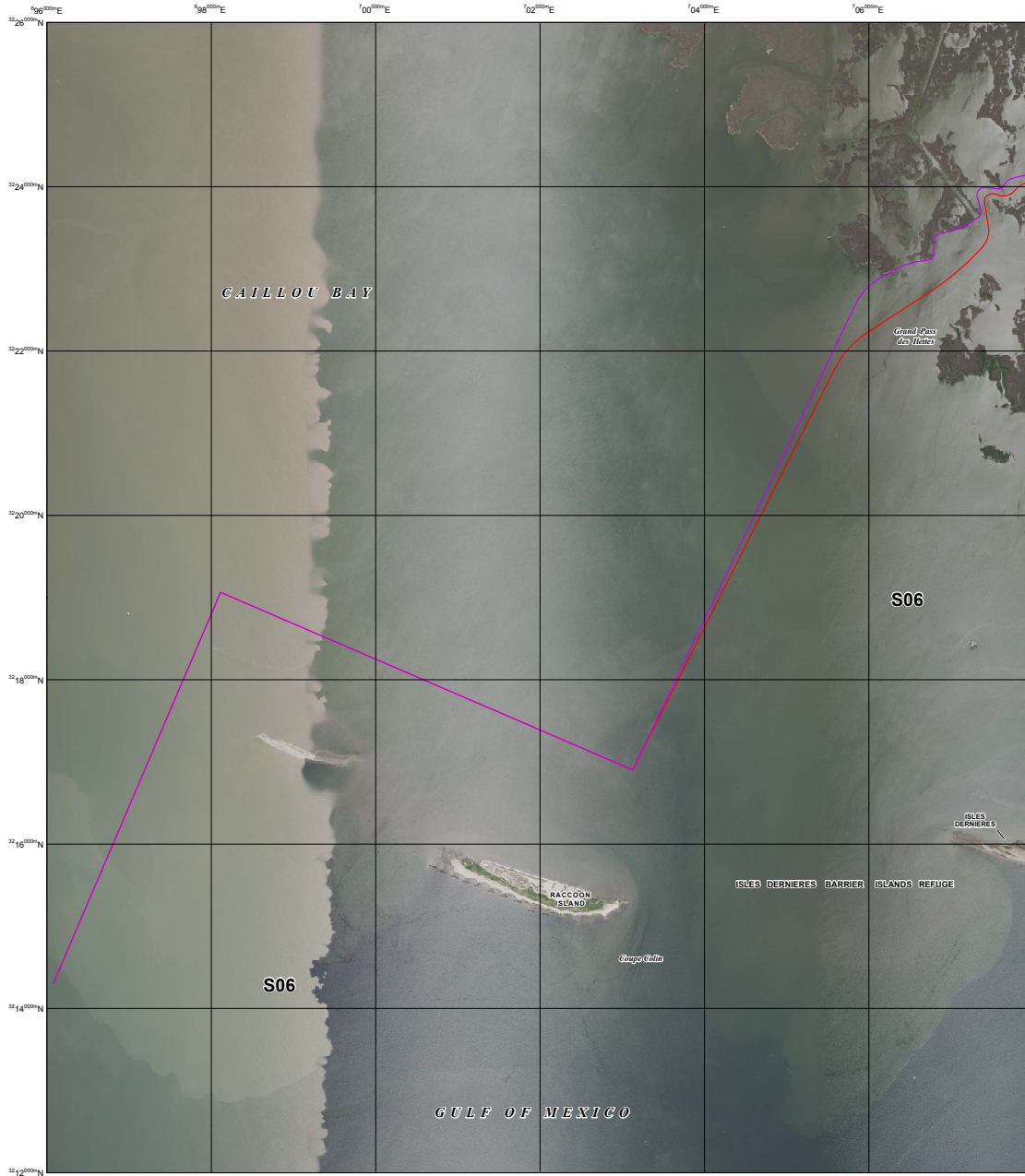
For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - Approximate State Boundary
- 32°14'00"N 2000-meter Universal Transverse Mercator grid values
- Imagery Date(s): 2015
- Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
- Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 15 North

Pilot Project Draft Map 40 March 18, 2016

Existing and Final Recommended Boundaries



JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

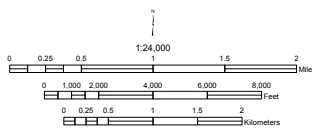
Isles Dernieres Unit S06 (3 of 3)

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbrr.

- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- - - - Approximate State Boundary
- 31°54'00"N 2000-meter Universal Transverse Mercator grid values



Imagery Date(s): 2015
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 15 North

Pilot Project Draft Map 41 March 18, 2016

John H. Chafee Coastal Barrier Resources System Unit S07, Point au Fer, Louisiana

Summary of Final Recommended Changes

Type of Unit: System Unit

Location of Unit: South of Baton Rouge, in Terrebonne and St. Mary Parishes, Louisiana

Congressional District: 1

Date of Final Recommended Maps: March 18, 2016

Number of Maps: Unit S07 is depicted on four maps.

Base Map Imagery Source and Date: U.S. Department of Agriculture, National Agriculture Imagery Program, 2015

Establishment of Unit: The Coastal Barrier Resources Act (CBRA) (Pub. L. 97-348 enacted on October 18, 1982) originally established Unit S07.

Historical Changes to Unit: The Coastal Barrier Improvement Act (Pub. L. 101-591 enacted on November 16, 1990) modified the boundary of Unit S07 to add to the Coastal Barrier Resources System (CBRS) associated aquatic habitat and remove from the CBRS the State-protected Atchafalaya Delta Wildlife Management Area.

The U.S. Fish and Wildlife Service (Service) modified the eastern boundary of Unit S07 (via notice published in the *Federal Register* (81 FR 13407) on March 14, 2016) to account for channel migration along Buckskin Bayou. The northern boundary of the unit was modified to account for channel migration along Blue Hammock Bayou. A segment of the western boundary of the unit was modified to account for wetlands erosion on the western side of Point Au Fer Island. Another segment of the western boundary was modified to include North Point due to accretion connecting North Point to Point Au Fer (this

modification results in the inclusion within Unit S07 of a minor portion of the Atchafalaya Delta Wildlife Management Area). Due to the significant rate of erosion in this area, portions of the boundary of Unit S07 were generalized. The eastern and western boundaries were extended offshore to clarify the extent of the unit. Additionally, the northern boundary of the unit was adjusted near the location where Four League Bay joins Atchafalaya Bay to close a gap in the boundary on the official map dated October 24, 1990, for this unit. These modifications were made in accordance with Section 3 of Pub. L. 101-591, which allows for modifications to the CBRS boundaries to reflect changes that have occurred as a result of natural forces.

Public Comments: The Service held a 120-day public comment period on the Digital Mapping Pilot Project (pilot project) draft maps dated June 12, 2006, from April 7 through August 5, 2009. There are no comments specific to Unit S07. For a summary of the comments received on other pilot project units and the Service's responses, see Chapter 4 and Appendix E of the 2016 *Final Report to Congress: John H. Chafee Coastal Barrier Resources System Digital Mapping Pilot Project*.

Changes between Proposed and Final Recommended Boundaries: Minor modifications are made to the boundaries of most units in the pilot project, including Unit S07. These minor modifications may include, but are not limited to: better alignment of the boundary with parcel data, smoothing and simplification of the boundary, and fitting the boundary to updated base map imagery. In addition, the northeastern boundary of the unit is modified to add to the CBRS an area of wetlands about midway along the eastern side of Bay Junop and an island made up of wetlands and the surrounding associated aquatic habitat, located in the Blue Hammock Bayou channel at The Narrows. The portion of the unit's boundary extending through Four League Bay is adjusted to the

north, which adds open water to the CBRS. The western boundary is modified to include North Point within the CBRS due to accretion connecting North Point to Point Au Fer. The updated base map imagery for the final recommended maps shows significant erosion has occurred in Unit S07 since 1998, which is the date of the base map imagery used for the draft map dated June 12, 2006. Because the shoreline is rapidly eroding along Point Au Fer Island, the western boundary of the unit is adjusted to generally follow the island shoreline, but is placed a small distance offshore to reduce the frequency that this boundary would need to be revised.

The Service conducted a review for natural changes of all of the existing units in the pilot project, including Unit S07, and issued revised maps (see Historical Changes to Unit section above) between 2014 and 2016. Therefore, some of the changes originally proposed by the pilot project have already been adopted and will not be reflected in the Final Recommended Changes to Unit section below.

Final Recommended Changes to Unit: The final recommended maps dated March 18, 2016, modify the boundary of Unit S07 to add to the CBRS the entire width of the channels of Pelican Pass, Taylors Bayou, Cross Bayou, the small stream cutting through Tony Lake, Bay Junop, Buckskin Bayou, and Blue Hammock Bayou. The northeastern boundary of the unit is modified to add to the CBRS an area of wetlands about midway along the eastern side of Bay Junop and an island made up of wetlands located in the Blue Hammock Bayou channel at The Narrows. The portion of the Unit S07 boundary extending through Four League Bay is adjusted to the north and adds open water to the CBRS.

The Service's final recommended maps depict changes to the CBRS that will only become effective if the updated maps are adopted through legislation enacted by Congress.

Appendix C: Pilot Project Unit Summaries and Final Recommended Maps

John H. Chafee Coastal Barrier Resources System Unit S07, Point au Fer, Louisiana (continued)

Acreage, Shoreline, and Structures:

	<i>Total Acres</i>	<i>Fastland Acres¹</i>	<i>Associated Aquatic Habitat Acres²</i>	<i>Shoreline (Miles)</i>	<i>Structures³</i>
Existing Unit	76,792	316	76,476	24.2	
Added to the CBRS	4,828	5	4,823		0
Removed from the CBRS	0	0	0		0
Reclassified Area	0	0	0	0.0	
Final Recommended Unit	81,620	321	81,299	24.4	
Net Change	4,828	5	4,823	0.2	0

¹ Land above mean high tide.

² Associated aquatic habitat includes wetlands, marshes, estuaries, inlets, and open water landward of the coastal barrier, but does not include open water seaward of the shoreline. This information is derived from an interpretation of base map imagery in consultation with National Wetlands Inventory data and other data sources as necessary.

³ Approximate structure count derived from base map imagery. Structures without walls and a roof (e.g., picnic shelters) and structures with fewer than 200 square feet are not included in this structure count because they do not meet the definition of a "structure" in 16 U.S.C. 3503(g)(2).

Existing and Final Recommended Boundaries



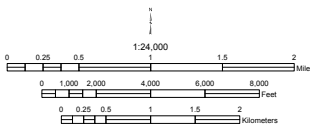
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

Point au Fer Unit S07 (1 of 4)

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

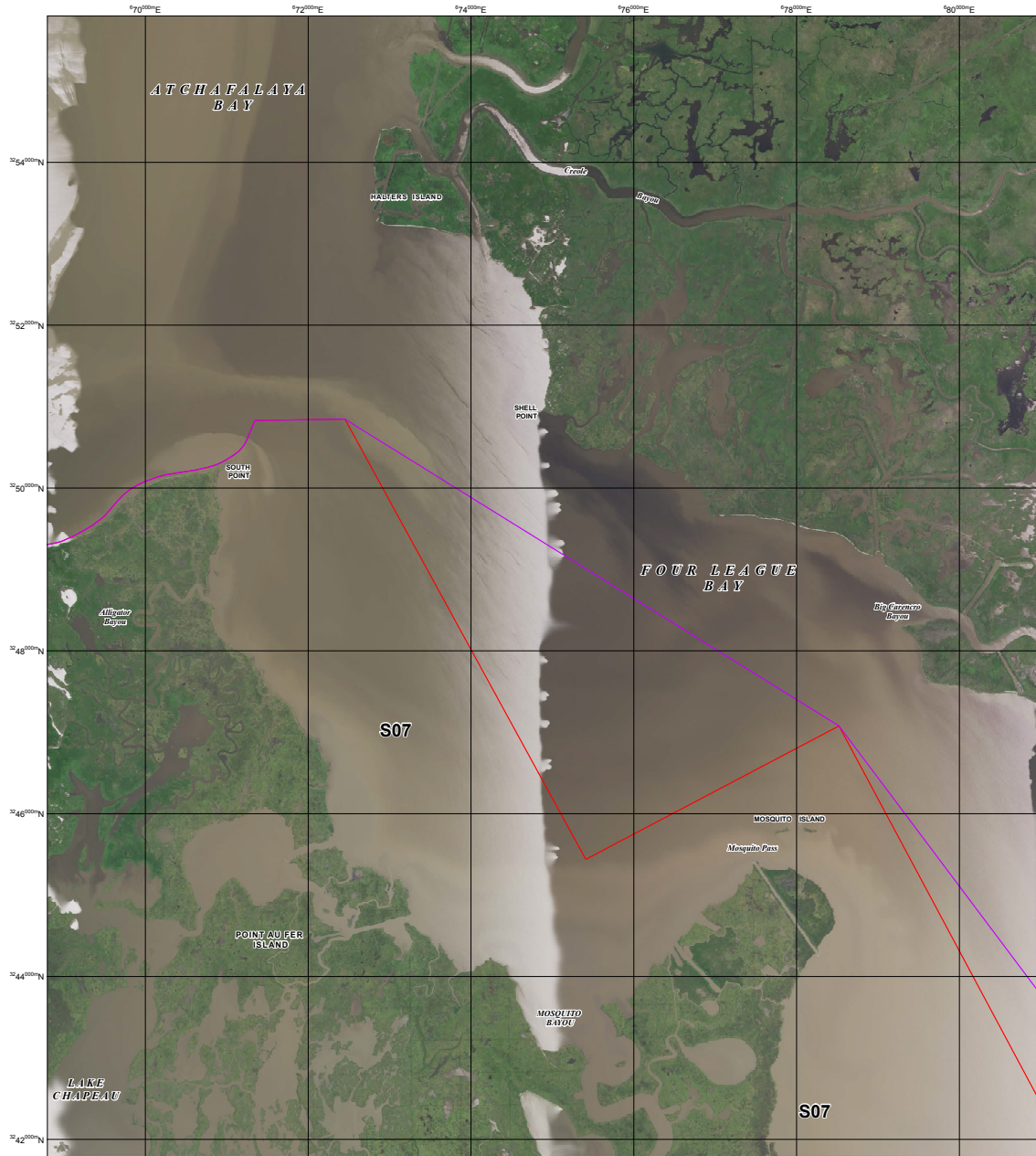
For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbra.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary; OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 34°00'N 2000-meter Universal Transverse Mercator grid values
- Imagery Date(s): 2015
- Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
- Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 15 North

Pilot Project Draft Map 42 March 18, 2016

Existing and Final Recommended Boundaries



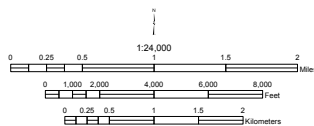
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

Point au Fer Unit S07 (2 of 4)

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbrs.

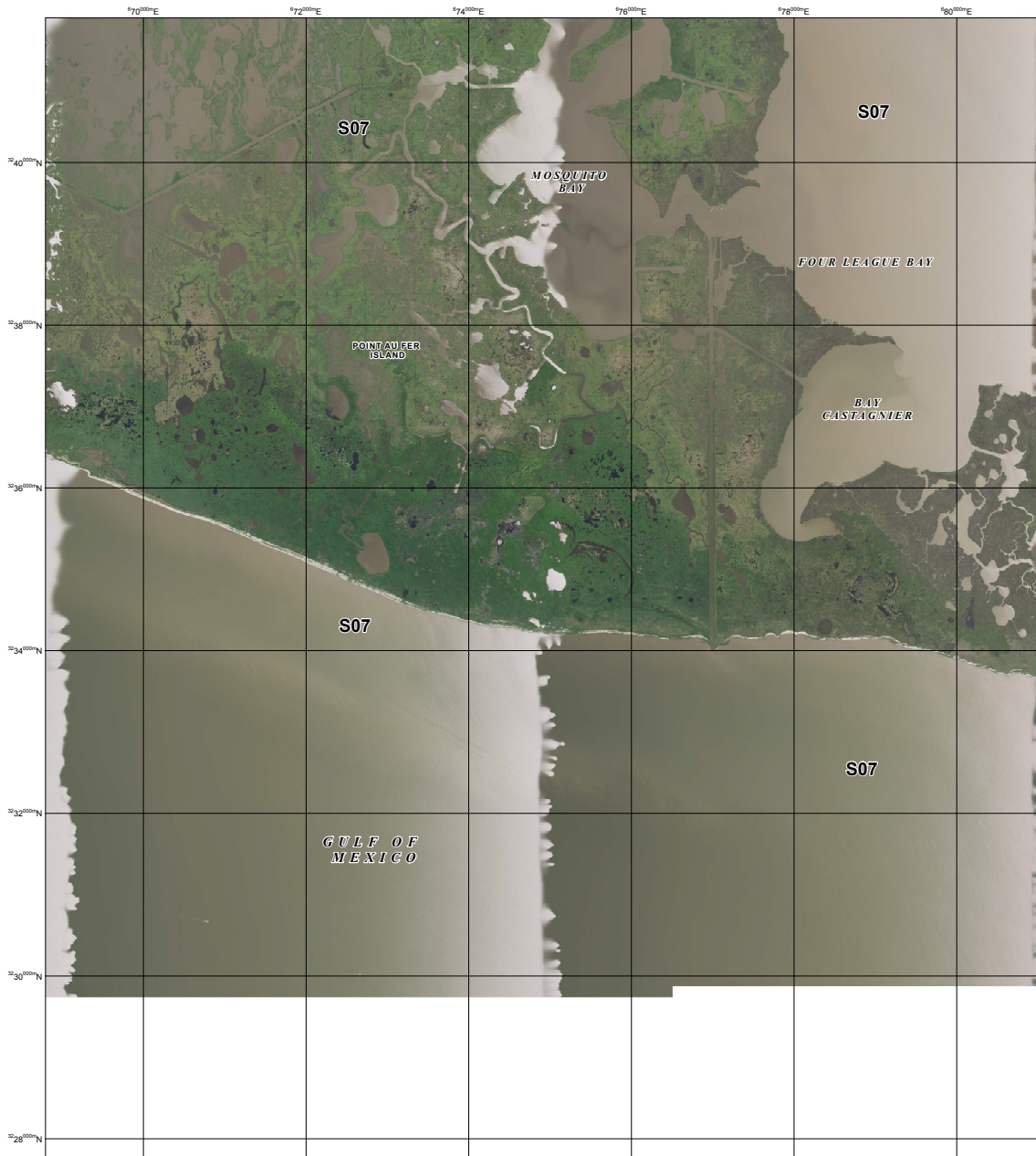


- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 36°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2015
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 15 North

Pilot Project Draft Map 43 March 18, 2016

Existing and Final Recommended Boundaries



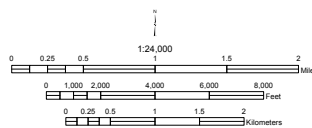
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

Point au Fer Unit S07 (3 of 4)

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chafee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbrs.

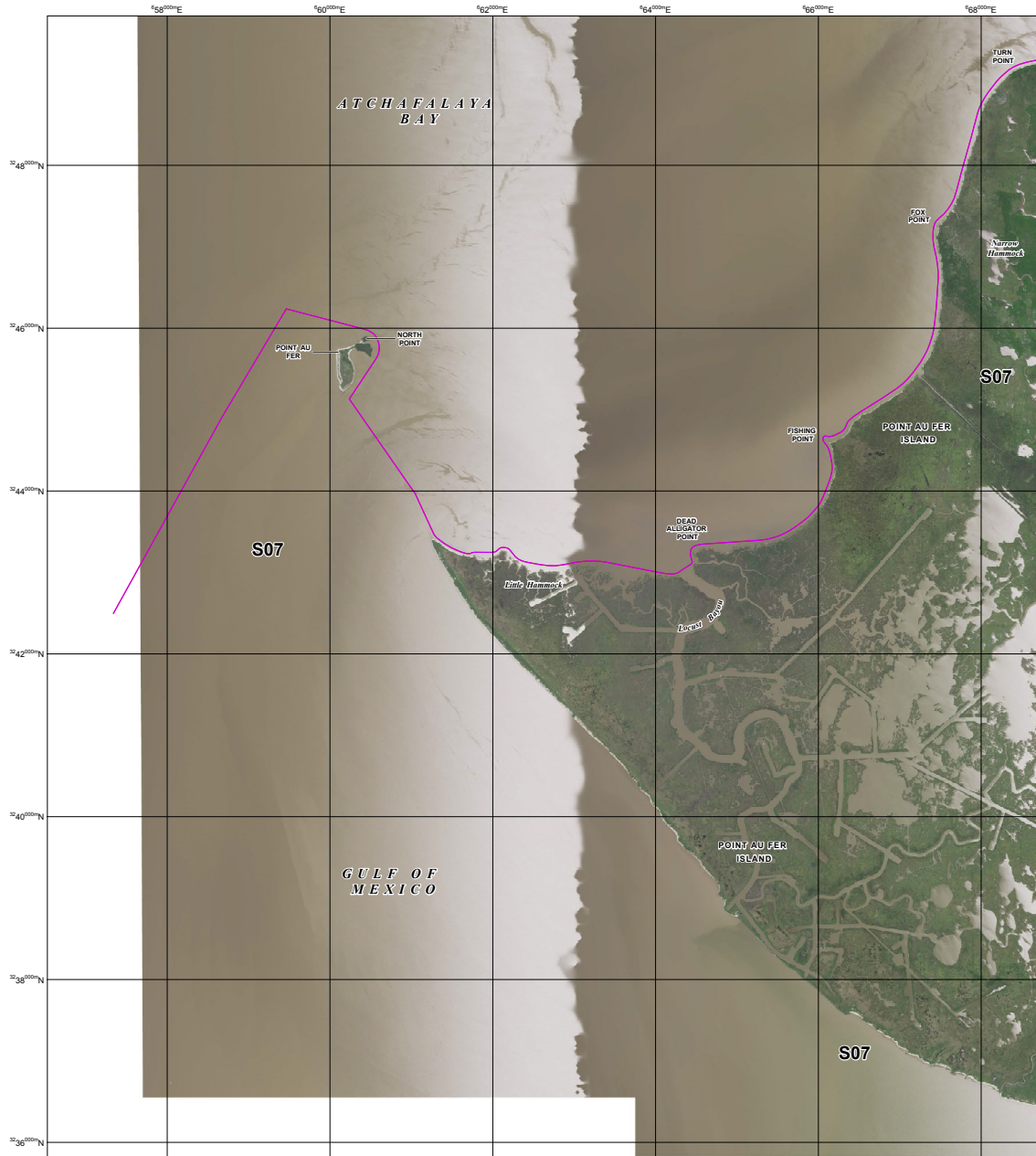


- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary: OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary: OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- \varnothing 54⁹⁰⁰⁰N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2015
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 15 North

Pilot Project Draft Map 44 March 18, 2016

Existing and Final Recommended Boundaries



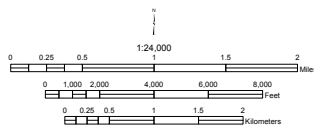
JOHN H. CHAFFEE COASTAL BARRIER RESOURCES SYSTEM

Point au Fer Unit S07 (4 of 4)

This draft map was produced by the U.S. Fish and Wildlife Service to show final recommended boundary changes to the John H. Chaffee Coastal Barrier Resources System (CBRS) as directed by Section 3 of the Coastal Barrier Resources Reauthorization Act of 2005 (Public Law 109-226).

The seaward side of the CBRS unit includes the entire sand-sharing system, including the beach and nearshore area. The sand-sharing system of coastal barriers is normally defined by the 30-foot bathymetric contour. In large coastal embayments and the Great Lakes, the sand-sharing system is defined by the 20-foot bathymetric contour or a line approximately one mile seaward of the shoreline, whichever is nearer the coastal barrier.

For additional information about the Coastal Barrier Resources Act (CBRA) or the CBRS, please visit www.fws.gov/cbrs.



- Existing System Unit Boundary
- Existing Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- Final Recommended System Unit Boundary
- Final Recommended Otherwise Protected Area (OPA) Boundary. OPAs are identified on the map by the letter "P" following the unit number
- - - - - Approximate State Boundary
- 36°54'00"N 2000-meter Universal Transverse Mercator grid values

Imagery Date(s): 2015
 Imagery Source(s): United States Department of Agriculture National Agriculture Imagery Program
 Coordinate System: North American Datum 1983 Universal Transverse Mercator, Zone 15 North

Pilot Project Draft Map 45 March 18, 2016