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Coastal Bird Conservation

Restoration of Shorebirds and Habitats on the Gulf Coast



Coastal Bird Conservation/CONSERVIAN







Coastal Bird Conservation (CBC) is a field-based science-driven program to enhance coastal bird populations and their habitats throughout the Western Hemisphere.





Through research and standardized, proven methods of management and protection, CBC collaborates with partners to monitor/protect/stabilize/restore imperiled beachnesting and migratory shorebird populations.



CBC Shorebird Surveys and Monitoring

- Since 2003 CBC has documented, mapped, and monitored significant shorebird populations throughout the Gulf Coast.
- CBC has led first comprehensive state-wide and region-wide shorebird survey efforts from Florida to the Laguna Madre of Mexico.











Our surveys have documented new numbers of imperiled species throughout the Gulf

CBC Overview





CBC is expanding conservation work into the Bahamas

CBC monitors population status and trends of breeding and nonbreeding shorebirds:

- Conduct regular, comprehensive, standardized, surveys on breeding and non-breeding grounds.
- Conduct simultaneous, multi-species shorebird surveys, as appropriate.











CBC works to identify, monitor, protect, stabilize and restore breeding, migratory and wintering shorebird habitats:

- Work cooperatively with partners using standardized, proven methods of protection and management.
- Use methods sufficient to maintain or increase current shorebird population levels.









CBC Current High-Priority Focal Species:

Piping Plover Snowy Plover Wilson's Plover American Oystercatcher Red Knot

Roseate Tern Gull-billed Tern Least Tern Black Tern Black Skimmer Reddish Egret







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Wilson's Plover





American Oystercatcher









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Major range-wide cause of declining shorebird populations on the Gulf:

Ongoing degradation and loss of habitat due to severe, human-created pressures





Human-created Impacts

Unrelenting Coastal Development







ORV Use in nesting habitat





Range-wide Coastal Alteration













Sea Level Rise

High levels of human disturbance on breeding, migratory and wintering grounds.









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BP Deepwater Horizon Oil Spill Impacts

NRDA estimates over 1000 linear miles of coastal habitat were impacted by the Deepwater Horizon oil spill and related clean-up operations in 2010





Shorebird Populations in the Impact Zone

The "oil impacted zone" spans over 150 coastal nesting sites throughout the Florida Panhandle, Alabama, Mississippi, Louisiana and north Texas

The region supports over 15,000 beach-nesting birds and includes 14 different species.





Gulf Coast Plover Populations

- The Gulf Coast is home to nearly 75% of the U.S. breeding population of Wilson's Plovers (Wilson's Plover Conservation Plan, M. Zdravkovic in prep).
- More than half of the nonbreeding (federally-listed) Piping Plover population winters on the U.S. Gulf Coast, spending up to 9 months of its annual cycle in the region.













CBC Conservation Actions: 2010

- Past CBC Gulf Coast data informed federal and state agencies on where to focus immediate protective efforts for beachnesting birds.
- CBC 2010 surveys documented Gulf Coast beach-nesting bird populations before oil made landfall.
- Throughout the spill CBC was on the ground documenting, monitoring and raising awareness of pre and post-spill damage and disturbance to shorebirds



Impacts to Beach-nesting birds -2010

Direct Oiling





Direct Oiling



Oiled female Wilson's Plover, MS Delta 2010

BP Deepwater Horizon Gulf Impacts -2010

Oiled Habitat





Impacts to Shorebird Habitat

Oiled Habitat





Oiled Habitat



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Increased human-caused disturbance

Impacts to Habitat





Inlet and bayou closings across the Gulf

Impacts to Habitat



Boom placement in nesting habitat

Impacts to Habitat



Displaced Snowy Plover chick

Impacts to Habitat





Impacts to Habitat





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BP Deepwater Horizon Impacts -2011

Oil clean-up operations brought continued increases in human-caused disturbance to beach-nesting birds on the Gulf Coast.









Clean-up operations - May 2011



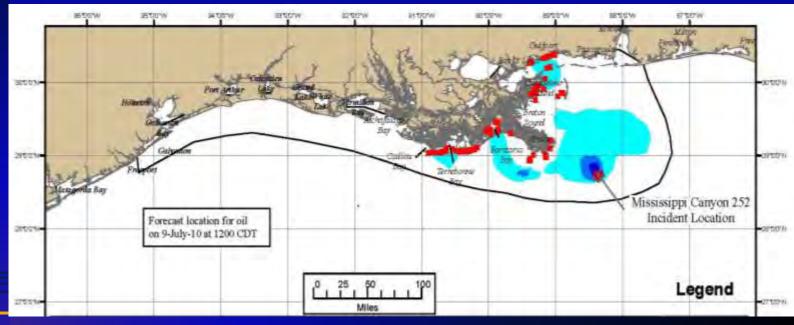


Weathered oil – June 2011

Continuing Oil-related Impacts

Oil-related clean-up operations continued throughout AL, MS and LA in 2012

Planned land restoration activities on the Gulf will continue to cause increased disturbance in to the future.





CBC Conservation Actions:

 To increase beach-nesting bird populations and habitat quality, CBC employs specific proven methods of restoration.







CBC Conservation Actions:

Work cooperatively with partners to implement protective and restorative measures

Proven Methods





CBC Conservation Actions: Site-specific recommendations

Assess Sites





CBC Conservation Actions:

Provide on-the-ground staff and assistance for shorebird protection related issues





CBC Conservation Actions : Symbolic Fencing







Posting, signing and roping to protect nesting areas

CBC Conservation Actions: 2011-2012

- Keep site managers updated on current nest locations throughout the breeding season
- Help site managers protect nesting areas from human disturbance
- Limit further damage to beach-nesting birds

and habitat



CBC



CBC Conservation Actions : Monitor beach-nesting bird populations





Conduct regular state-wide breeding surveys

CBC Conservation Actions:

In 2013 Conservian will complete a Gulf Coast Beachnesting Bird Assessment and Management Guidelines to assist land managers to stabilize and increase shorebird populations throughout the Gulf.













CBC Conservation Actions:

Gulfwide Breeding American Oystercatcher Population Estimates by State

STATE	AMERICAN
	OYSTERCATCHER PAIRS
TEXAS	150-175 pairs
LOUISIANA	100-125 pairs
MISSISSIPPI	25-32 pairs
ALABAMA	15-18 pairs
FLORIDA	380-425 pairs



GULF-WIDE RANGE ESTIMATE

700-775 pairs

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CBC Conservation Actions:

Gulfwide Breeding American Oystercatcher Population Estimates

- Statewide surveys needed for Florida and Texas
- CBC will conduct statewide beach-nesting bird surveys in Texas 2013 to include AMOY

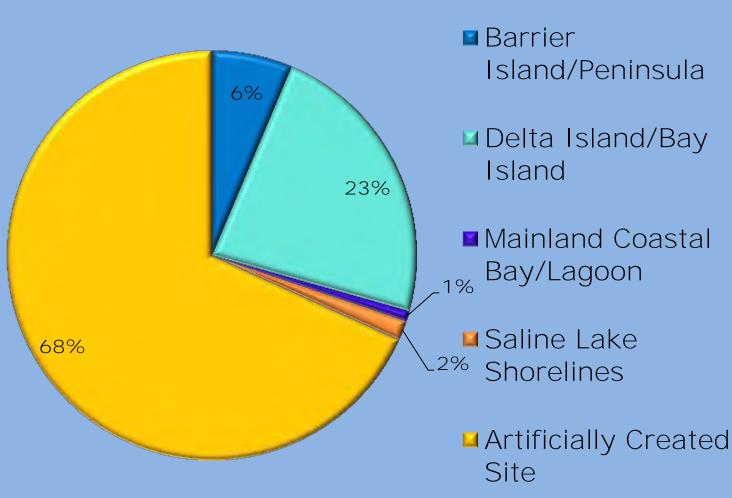




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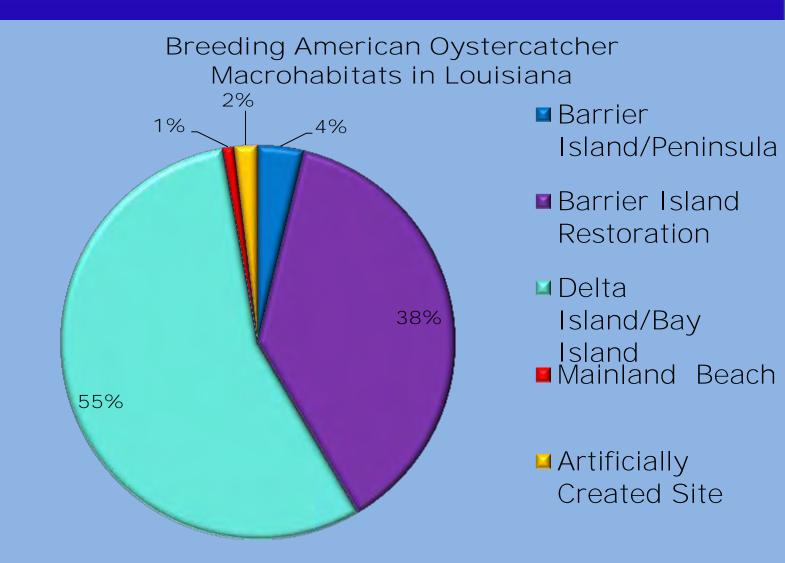
American Oystercatcher Habitat Use:









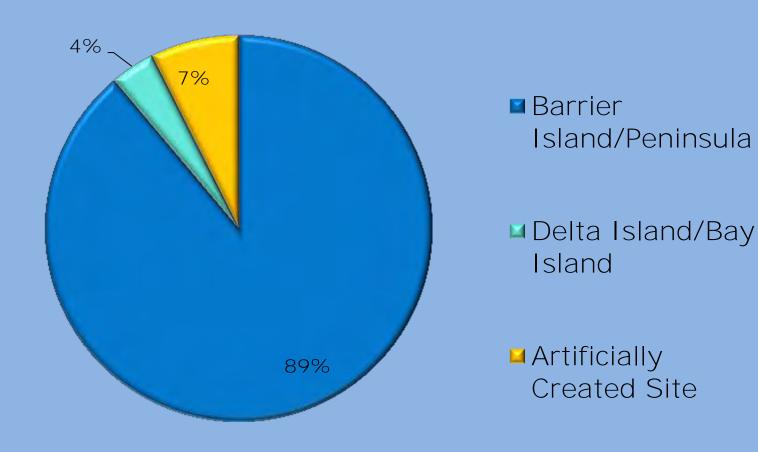




LA Macrohabitat Use 1# = Delta/Bay Islands

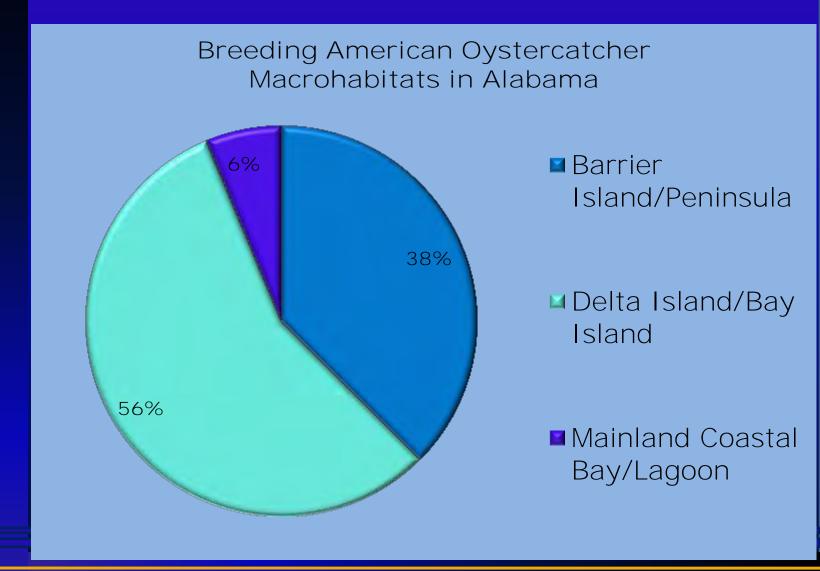


American Oystercatcher Breeding Macrohabitats in Mississippi





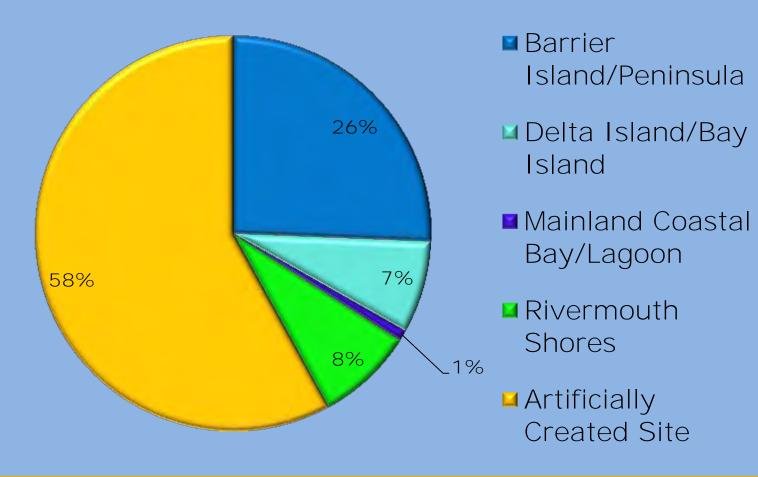












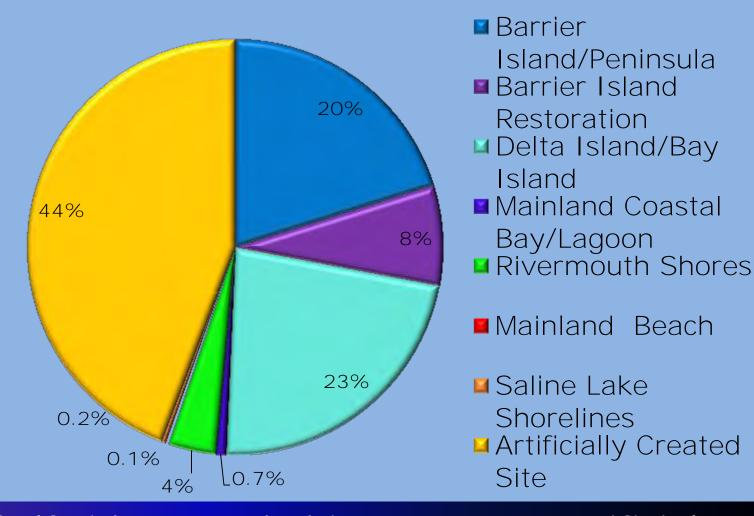


FL Macrohabitat Use #1 = Artificial

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American Oystercatcher Habitat Use:

Gulfwide Breeding American Oystercatcher Macrohabitats







CBC Conservation Actions: Manomet/NFWF project

Wilson's Plover Conservation Plan





Proposes federal listing for the Wilson's Plover



CBC Conservation Actions:

Wilson's Plover Conservation Plan

- Low and declining population, and contracting species range
- US population under 8,600 breeding individuals
- High level of human-induced threats on breeding and nonbreeding grounds







CBC Conservation Actions:

Wilson's Plover Conservation Plan

- Nearly 75% of the U.S. population breeds on the Gulf
- Wilson's Plover uses the widest range of breeding macrohabitats compared to other BNBs
- Listing will provide an umbrella of protection for BNBs
- Increase shorebird conservation on the Gulf for the long-term





CBC Restoration Actions Are Protective Measures Effective?







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CBC Conservation Actions = Restoration

BNBs
respond
positivel
to
protectiv
measure

*combined

w/ Deer

Lake SP

Watersound

Conservation Area

Camp Helen State

Park

TNC John S.

Phipps Preserve

St. Vincent **National Wildlife**

Refuge

PAIR TOTALS

Breeding Site	Snowy Plover Breeding Pairs*				Protective Measures Implemented			
	1989	2002	2006	2007	2008	2009	2010	201
Topsail Hill Preserve State Park	8	3	0	0	0	0	1	0
Grayton Beach State Park	*combined w/ Deer Lake SP	0	0	0	0	1	1	1
Deer Lake State Park	8*	2	2	1	2	3	3	4

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CBC Conservation Actions = Restoration

AMOY

Pairs

2010

5

AMOY

Pairs

2011

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WIPL

Pairs

2007

0

5

WIPL

Pairs

2008

WIPL

Pairs

2009

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WIPL

Pairs

2010

WIPL

Pairs

2011

BNBs
respond
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BNBs
respond
positively
to
protective
measures

Breeding Site-b Vincent

St.

National

Wildlife

Refuge

TNC John

S. Phipps

Preserve

AMOY Pairs 2007

2

AMOY

Pairs

2008

2

3

AMOY

Pairs

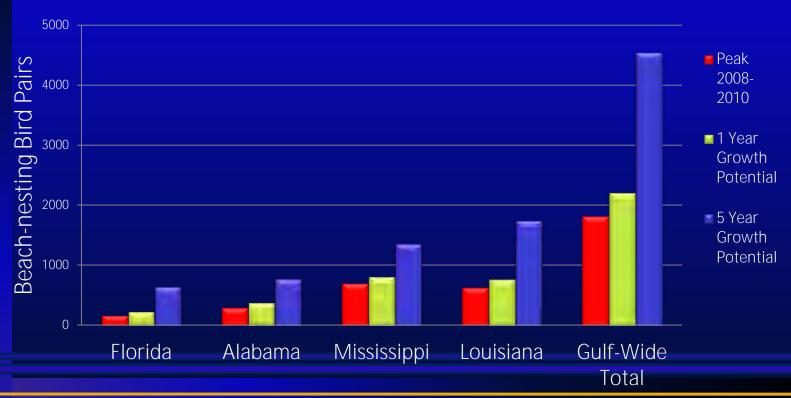
2009



Expand CBC protective measures

CBC Conservation Actions: Future Restoration on the Gulf Impact Zone Restoration

CBC Projected Gulf Coast Beach-nesting Bird Growth after Proposed Restorative and Protective Measures





Increase shorebird conservation on Gulf for the long-term





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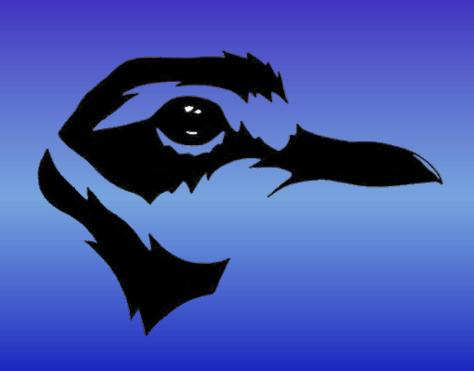
Conserving Coastal Birds and their Habitats throughout the Western Hemisphere

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*This presentation contains original data and photos which may not be used or reinterpreted without express written consent of the CBC. For questions, please contact: Margo Zdravkovic, Coastal Bird Conservation program Director at MargoZ@COASTALBIRD.ORG



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Mobil Bay National Estuary Program

South Texas Refuge Complex

Laguna Atascosa NWR

Santa Ana NWR

Padre Island National Seashore

US Ecological Services Corpus Christi

Florida Keys NWR

Florida Keys Audubon Society

National Audubon Society

Louisiana DWF

Rockefeller WR

Breton NWR

USEWS









American B

Gulf Coast Joint Venture

Alabama DNR

Mississinni DNR



Thank you to CBC su

Margo Zdravkovic

Director, CBC



