



# SOUTHEAST GAP ANALYSIS PROJECT



## Species Modeling Report

### Double-crested Cormorant

*Phalacrocorax auritus*

Taxa: Avian

Order: Pelecaniformes

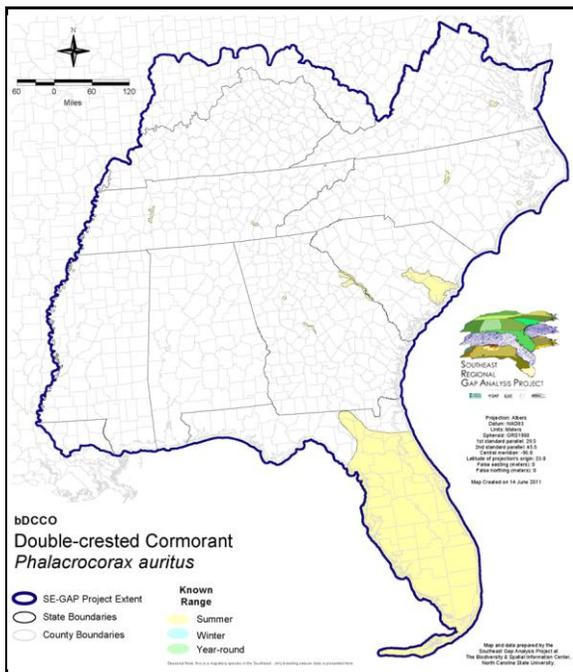
Family: Phalacrocoracidae

SE-GAP Spp Code: **bDCCO**

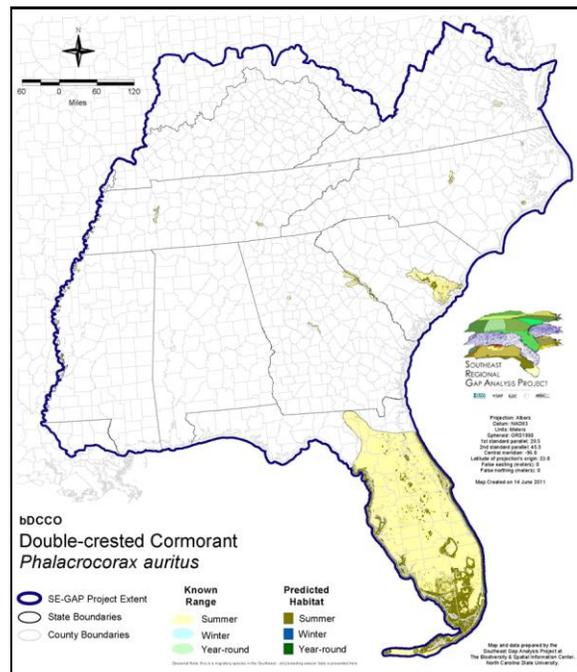
ITIS Species Code: 174717

NatureServe Element Code: ABNFD01020

#### KNOWN RANGE:



#### PREDICTED HABITAT:



Range Map Link: [http://www.basic.ncsu.edu/segap/datazip/maps/SE\\_Range\\_bDCCO.pdf](http://www.basic.ncsu.edu/segap/datazip/maps/SE_Range_bDCCO.pdf)

Predicted Habitat Map Link: [http://www.basic.ncsu.edu/segap/datazip/maps/SE\\_Dist\\_bDCCO.pdf](http://www.basic.ncsu.edu/segap/datazip/maps/SE_Dist_bDCCO.pdf)

GAP Online Tool Link: <http://www.gapservice.ncsu.edu/segap/segap/index2.php?species=bDCCO>

Data Download: [http://www.basic.ncsu.edu/segap/datazip/region/vert/bDCCO\\_se00.zip](http://www.basic.ncsu.edu/segap/datazip/region/vert/bDCCO_se00.zip)

#### PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: AR (M), CA (None), ID (P), ID (P), IL (RT), IN (SX), IN (SX), KY (T), KY (T), MN (NON), NC (SR), NJ (INC), NV (YES), NY (PB), OH (N), RI (Not Listed), UT (None), BC (3 (2005)), ON (NAR), QC (Non suivie)

NS Global Rank: G5

NS State Rank: AK (S3), AL (S5N), AL (S5N), AR (S4N), AZ (S5), CA (S3), CO (S4), CT (S3B,S4N), DC (S4N), DE (S1B), DE (S1B), FL (SNR), GA (S5), IA (S3B,S5N), ID (S2B), ID (S2B), IL (S2), IN (SHB), IN (SHB), KS (S2B,S4N), KY (S2B), KY (S2B), LA (S2S3B,S4N), MA (S3B,S5N), MD (S1B,S3S4N), ME (S5B), MI (S4), MN (SNRB), MO (SNA), MS (S4N), MT (S5B), MT (S5B), NC (S1B,S5N), ND (SNRB), NE (S4), NH (S5), NJ (S1B,S4N), NM (S4B,S4N), NV (S4B), NY (S3), OH (S1), OK (S3S4), OR (S5), PA (SNA), RI (S2B), SC (SNRB,SNRN), SD (S5B), SD (S5B), TN (S2B,S4N), TX (S3B,S5N), UT (S3S4B,S3N), VA (S2B,S4S5N), VT (S3S4B), WA (S4S5B), WI (S4B), WI (S4B), WV (S2N), WY (S3B,S5N), AB (S3), BC (S3B), LB (S1S2B), MB (S5B), MB (S5B), NB (S5B,S5M), NB (S5B,S5M), NF (S4B), NS (S5B), ON (S5B), PE (S5B), QC (S5B), SK (S4B), YT (S1B)

**SUMMARY OF PREDICTED HABITAT BY MANAGMENT AND GAP PROTECTION STATUS:**

	US FWS		US Forest Service		Tenn. Valley Author.		US DOD/ACOE	
	ha	%	ha	%	ha	%	ha	%
Status 1	17,839.7	2	1,245.5	< 1	0.0	0	0.0	0
Status 2	2,304.5	< 1	176.4	< 1	0.0	0	0.0	0
Status 3	0.0	0	12,076.3	1	0.0	0	4,416.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	20,144.3	2	13,498.2	1	0.0	0	4,416.8	< 1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	340,136.0	31	0.0	0	9,848.9	< 1
Status 2	0.0	0	3,646.7	< 1	12,760.6	1	0.3	< 1
Status 3	0.0	0	138,253.5	13	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	482,036.2	44	12,760.6	1	9,849.2	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	199,975.1	18	0.0	0
Status 3	0.0	0	71,305.8	6	0.0	0	6,000.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	71,305.8	6	199,975.1	18	6,000.2	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	1,425.1	< 1	0.0	0	0.0	0
Status 3	0.0	0	744.1	< 1	683.0	< 1	1,038.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	2,169.2	< 1	683.0	< 1	1,038.0	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	0	0.0	0	369,070.1	33		
Status 2	0.0	0	0.0	0	220,288.6	20		
Status 3	0.0	0	0.0	0	234,517.8	22		
Status 4	233,866.5	21	32,246.0	3	266,112.5	24		
Total	233,866.5	21	32,246.0	3	1,089,989.0	100		

GAP Status 1: An area having permanent protection from conversion of natural land cover and a mandated management plan in operation to maintain a natural state within which disturbance events (of natural type, frequency, and intensity) are allowed to proceed without interference or are mimicked through management.

GAP Status 2: An area having permanent protection from conversion of natural land cover and a mandated management plan in operation to maintain a primarily natural state, but which may receive use or management practices that degrade the quality of existing natural communities.

GAP Status 3: An area having permanent protection from conversion of natural land cover for the majority of the area, but subject to extractive uses of either a broad, low-intensity type or localized intense type. It also confers protection to federally listed endangered and threatened species throughout the area.

GAP Status 4: Lack of irrevocable easement or mandate to prevent conversion of natural habitat types to anthropogenic habitat types. Allows for intensive use throughout the tract. Also includes those tracts for which the existence of such restrictions or sufficient information to establish a higher status is unknown.

## PREDICTED HABITAT MODEL(S):

### Summer Model:

Habitat Description: Scattered breeding colonies exist throughout the region but most often in coastal areas along estuaries, bays, inlets, swamps, lagoons, marine islands etc... Also occurs inland along large reservoir and lake shores and slow-moving rivers. Nests within mats of emergent vegetation as well as in trees in standing water of swamps and lake margins. Forages in shallow waters and roosts and loafs in/on trees, pier pilings, high-tension wires, typically within 30km of nesting sites (Hatch and Weseloh 1999). M. Rubino, 9nov04.

### Hydrography Mask:

Utilizes flowing water features with buffers of 250m from and 4000m into selected water features.

Utilizes open water features with buffers of 250m from and 4000m into selected water features.

Utilizes wet vegetation features with buffers of 250m from and 4000m into selected vegetation features.

### Selected Map Units:

Functional Group	Map Unit Name
Beach	Atlantic Coastal Plain Sea Island Beach
Beach	Atlantic Coastal Plain Southern Beach
Beach	Florida Panhandle Beach Vegetation
Beach	South Florida Shell Hash Beach
Beach	Southeast Florida Beach
Beach	Southwest Florida Beach
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Central Salt and Brackish Tidal Marsh
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Embayed Region Tidal Salt and Brackish Marsh
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Indian River Lagoon Tidal Marsh
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Northern Tidal Salt Marsh
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Northern Tidal Wooded Swamp
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Southern Tidal Wooded Swamp
Brackish Tidal Marsh & Wetland	East Gulf Coastal Plain Tidal Wooded Swamp
Brackish Tidal Marsh & Wetland	Florida Big Bend Salt-Brackish Tidal Marsh
Brackish Tidal Marsh & Wetland	Mississippi Sound Salt and Brackish Tidal Marsh
Brackish Tidal Marsh & Wetland	South Florida Everglades Sawgrass Marsh
Brackish Tidal Marsh & Wetland	South Florida Mangrove Swamp
Brackish Tidal Marsh & Wetland	Southwest Florida Perched Barriers Salt Swamp and Lagoon - Mangrove Modifier
Brackish Tidal Marsh & Wetland	Southwest Florida Perched Barriers Salt Swamp and Lagoon - Marsh Modifier
Forest/Woodland	Atlantic Coastal Plain Central Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Southern Maritime Forest
Forest/Woodland	Southeast Florida Coastal Strand and Maritime Hammock
Forest/Woodland	Southwest Florida Coastal Strand and Maritime Hammock
Freshwater Tidal Marsh & Wetland	Atlantic Coastal Plain Central Fresh-Oligohaline Tidal Marsh
Freshwater Tidal Marsh & Wetland	Atlantic Coastal Plain Embayed Region Tidal Freshwater Marsh
Freshwater Tidal Marsh & Wetland	Florida Big Bend Fresh-Oligohaline Tidal Marsh
Water	Open Water (Aquaculture)
Water	Open Water (Brackish/Salt)
Water	Open Water (Fresh)
Wetlands	Atlantic Coastal Plain Blackwater Stream Floodplain Forest - Herbaceous Modifier
Wetlands	Atlantic Coastal Plain Large Natural Lakeshore
Wetlands	Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest - Taxodium/Nyssa Modifier
Wetlands	Atlantic Coastal Plain Xeric River Dune
Wetlands	Central Appalachian Floodplain - Herbaceous Modifier
Wetlands	East Gulf Coastal Plain Large River Floodplain Forest - Forest Modifier
Wetlands	East Gulf Coastal Plain Large River Floodplain Forest - Herbaceous Modifier
Wetlands	Lower Mississippi River Bottomland and Floodplain Forest
Wetlands	Mississippi River Low Floodplain (Bottomland) Forest
Wetlands	Mississippi River Riparian Forest
Wetlands	South Florida Bayhead Swamp
Wetlands	South Florida Pond-Apple/Popash Slough

- CITATIONS:** American Ornithologists' Union (AOU), Committee on Classification and Nomenclature. 1983. Check-list of North American Birds. Sixth Edition. American Ornithologists' Union, Allen Press, Inc., Lawrence, Kansas.
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