



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

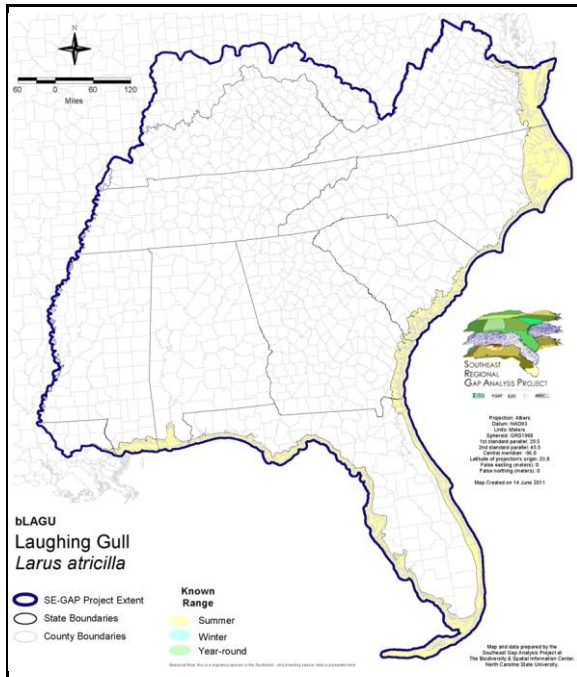
Laughing Gull

Larus atricilla

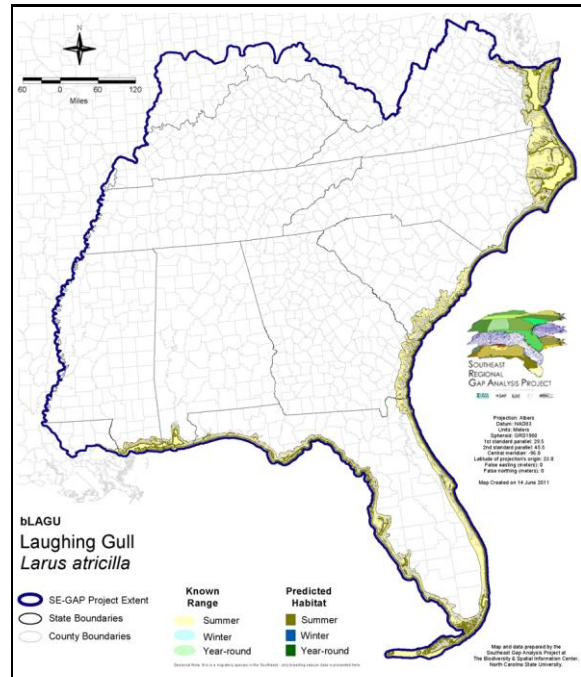
Taxa: Avian
 Order: Charadriiformes
 Family: Laridae

SE-GAP Spp Code: **bLAGU**
 ITIS Species Code: 176837
 NatureServe Element Code: ABNNM03010

KNOWN RANGE:



PREDICTED HABITAT:



Range Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Range_bLAGU.pdf

Predicted Habitat Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Dist_bLAGU.pdf

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/bLAGU_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: CA (None), KY (N), ME (SC(B)), NJ (S/S), NV (YES), NY (PB), RI (Not Listed), UT (None), BC (8 (2005)), QC (Non suivie)

NS Global Rank: G5

NS State Rank: AK (SNA), AL (S5), AR (SNA), AZ (SNA), CA (SH), CO (SNA), CT (SNA), DC (S3N), DE (S4B), FL (SNR), GA (S5), HI (SNA), IL (SNA), IN (SNA), KS (SNA), KY (SNA), LA (S5), MA (S2B), MD (S1B,S4N), ME (S2S3B), MI (SNRN), MO (SNA), MS (S1B,S5N), MT (SNA), NC (S4B), NE (SNRN), NH (SNA), NJ (S5B), NM (SNA), NV (SNA), NY (S1), OH (SNA), OK (S1N), PA (SNA), RI (SNA), SC (SNR), TN (S3N), TX (S5), UT (SNA), VA (S3S4), VT (SNA), WA (SNA), WI (SNA), BC (SNA), LB (SNA), MB (SNA), NB (S1B), NF (SNA), NS (SHB), ON (SNA), PE (SNA), QC (SNRB), SK (SNA)

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	47,165.6	4	0.0	0	0.0	0	0.0	0
Status 2	28,167.9	2	70.7	< 1	0.0	0	0.0	0
Status 3	693.5	< 1	823.1	< 1	0.0	0	24,474.4	2
Status 4	0.0	0	0.0	0	0.0	0	85.8	< 1
Total	76,027.0	6	893.9	< 1	0.0	0	24,560.2	2
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4,983.2	< 1	1,082.1	< 1	4,094.1	< 1
Status 2	0.0	0	35,077.6	3	25,089.3	2	3.2	< 1
Status 3	0.0	0	1,953.5	< 1	0.0	0	0.0	0
Status 4	0.0	0	3.0	0	0.0	0	0.0	0
Total	0.0	0	42,017.5	4	26,171.4	2	4,097.3	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1.7	< 1	0.0	0	0.0	0
Status 2	0.0	0	64.2	< 1	42,777.3	4	0.0	0
Status 3	3.2	< 1	28,765.8	2	4,110.6	< 1	2,547.1	< 1
Status 4	0.0	0	0.0	0	425.0	< 1	0.0	0
Total	3.2	< 1	28,831.7	2	47,312.8	4	2,547.1	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	451.7	< 1	0.0	0	0.0	0
Status 2	24,661.2	2	18,179.2	2	0.0	0	0.0	0
Status 3	0.0	0	745.7	< 1	0.0	0	375.9	< 1
Status 4	0.0	0	0.0	0	12.6	< 1	0.0	0
Total	24,661.2	2	19,376.6	2	12.6	< 1	375.9	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	< 1	0.0	0	57,778.6 5			
Status 2	0.8	< 1	0.0	< 1	174,091.6 15			
Status 3	125.6	< 1	0.0	0	64,618.5 5			
Status 4	865,337.1	73	14,919.1	1	881,207.7 75			
Total	865,463.8	73	14,919.3	1	1,177,696.4 100			

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: Nests in a wide range of habitats including salt marshes, rock and vegetated islands, sandy beaches and islands, dredge spoil and unmodified estuarine islands. In Florida Keys, nests on natural islands at base of mangrove and other low herbaceous vegetation and tall grasses. Optimal habitat is often in sparse or dense vegetation that provides some protection from inclement weather and predators. Normally feeds on coast at water's edge; goes inland during high winds and on high tides to find insects in grassy meadows and plowed fields. Feeds on a variety of inland lakes and marshes and coastal marshes (Burger 1996). M. Rubino, 29 dec04.

Hydrography Mask:

Brackish/Saltwater Only

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

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

Utilizes wet vegetation features with buffer of unlimited into selected vegetation features.

Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Developed Open Space
Anthropogenic	Pasture/Hay
Anthropogenic	Row Crop
Beach	Atlantic Coastal Plain Northern Sandy Beach
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
Beach	Unconsolidated Shore (Beach/Dune)
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	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	Southwest Florida Perched Barriers Salt Swamp and Lagoon - Marsh Modifier
Coastal Dune & Freshwater Wetland	Atlantic Coastal Plain Northern Dune and Maritime Grassland
Coastal Dune & Freshwater Wetland	Atlantic Coastal Plain Southern Dune and Maritime Grassland
Coastal Dune & Freshwater Wetland	East Gulf Coastal Plain Dune and Coastal Grassland
Coastal Dune & Freshwater Wetland	Southwest Florida Dune and Coastal Grassland
Water	Open Water (Brackish/Salt)
Wetlands	Unconsolidated Shore (Lake/River/Pond)

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.

Belant, J. L., and R. A. Dolbeer. 1993. Population status of nesting laughing gulls in the United States 1977-1991. *Am. Birds* 47:220-224.

Bent, A.C. 1921. Life histories of North American gulls and terns. U.S. Natl. Mux. Bull. 113. Washington, D.C.

Buckley, P. A., and F. G. Buckley. 1984. Seabirds of the north and middle Atlantic coast of the United States: their status and conservation. Pages 101-133 in Croxall et al., eds. Status and conservation of the world's seabirds. ICBP Tech. Pub. No. 2.

Burger, J. 1996. Laughing gull (*Larus atricilla*). In A. Poole and F. Gill, eds., *The Birds of North America*, No. 225. The Academy of Natural Sciences, Philadelphia and The American Ornithologists' Union, Washington, DC.

Burger, J., and M. Gochfield. 1985. Nest site selection by laughing gulls: comparison of tropical colonies (Culebra, Puerto Rico) with temperate colonies (New Jersey). *Condor* 87:364-373.

- Clapp, R. B., and P. A. Buckley. 1984. Status and conservation of seabirds in the southeastern United States. Pages 135-155 in Croxall et al., eds. Status and conservation of the world's seabirds. ICBP Tech. Pub. No. 2.
- Ehrlich, P.R., D.S. Dobkin, and D. Wheye. 1988. The birder's handbook: a field guide to the natural history of North American birds. Simon and Shuster, Inc., New York. xxx + 785 pp.
- Farrand, J., editor. 1983. Audubon Society master guide to birding. Alfred A. Knopf, New York. 3 vols., 1244 pp.
- Fussell, J.O. III. 1994. A birder's guide to coastal North Carolina. Chapel Hill and London: The University of North Carolina Press.
- Griffin, C. R., and E. M. Hoopes. 1992. Birds and the potential for bird strikes at John F. Kennedy International Airport. Final report, National Park Service, Boston, Massachusetts. 102 pp.
- Hagan, J.M., III, and D.W. Johnston, editors. 1992. Ecology and conservation of neotropical migrant landbirds. Smithsonian Institution Press, Washington, D.C. xiii + 609 pp.
- Harrison, C. 1978. A field guide to the nests, eggs and nestlings of North American birds. Collins, Cleveland, Ohio.
- Harrison, H.H. 1975. A field guide to bird's nests in the U.S. east of the Mississippi River. Houghton Mifflin Company, Boston, Massachusetts. 257 p.
- Kepler, C. B. 1978. The breeding ecology of sea birds on Monito Island, Puerto Rico. Condor 80:72-87.
- Portnoy, J.W., R.M. Erwin and T.W. Custer. 1981. Atlas of gull and tern colonies: North Carolina to Key West, Florida (including pelicans, cormorants and skimmers). Washington, D.C.: U.S. Fish and Wildlife Service, Office of Biological Services. FWS/OBS-
- Raffaele, H.A. 1983. A guide to the birds of Puerto Rico and the Virgin Islands. Fondo Educativo Interamericano, San Juan, Puerto Rico. 255 pp.
- Sauer, J.R., and S. Droege. 1992. Geographical patterns in population trends of neotropical migrants in North America. Pages 26-42 in J.M. Hagan III and D.W. Johnston, editors. Ecology and conservation of neotropical migrant landbirds. Smithsonian Institution
- Spendlow, J.A., and S.R. Patton. 1988. National atlas of coastal waterbird colonies in the contiguous United States: 1976-1982. U.S. Fish and Wildlife Service, Biological Report 88(5). x + 326 pp.
- Sprunt, A., IV. 1984. The status and conservation of seabirds of the Bahama Islands. Pages 157-168 in Croxall et al., eds. Status and conservation of the world's seabirds. ICBP Tech. Pub. No. 2.
- Stiles, F.G., and A.F. Skutch. 1989. A guide to the birds of Costa Rica. Comstock Publ. Associates, Cornell University Press, Ithaca, New York. 511 pp.
- Terres, J.K. 1980. The Audubon Society encyclopedia of North American birds. Alfred A. Knopf, New York.
- van Halewyn, R., and R. L. Norton. 1984. The status and conservation of seabirds in the Caribbean. Pages 169-222 in Croxall et al., eds. Status and conservation of the world's seabirds. ICBP Tech. Pub. No. 2.

For more information:: SE-GAP Analysis Project / BaSIC
 127 David Clark Labs
 Dept. of Biology, NCSU
 Raleigh, NC 27695-7617
 (919) 513-2853
www.basic.ncsu.edu/segap

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This data was compiled and/or developed by the Southeast GAP Analysis Project at The Biodiversity and Spatial Information Center, North Carolina State University.