



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

Seaside Sparrow

Ammodramus maritimus

Taxa: Avian

Order: Passeriformes

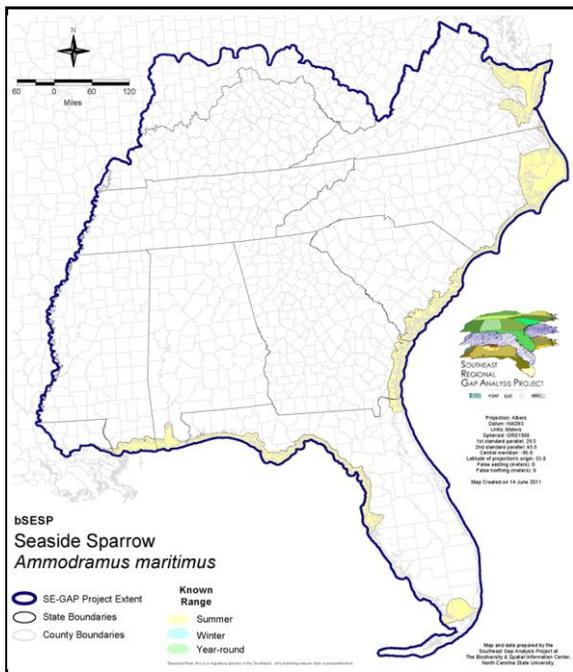
Family: Emberizidae

SE-GAP Spp Code: **bSESP**

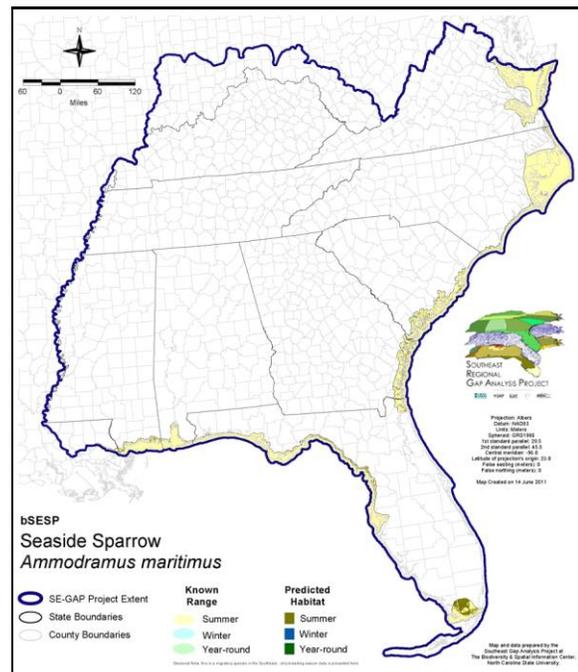
ITIS Species Code: 179346

NatureServe Element Code: ABPBXA0060

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/bSESP_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: CT (T), CT (T), MA (- WL), NH (SC), NJ (S/S), NY (SC), RI (Concern)

NS Global Rank: G4

NS State Rank: AL (S3), CT (S3B), CT (S3B), DE (S4B), DE (S4B), FL (SNR), GA (S3), LA (S4), MA (S2B), MD (S4B,S2N), ME (S1?B), MS (S3), NC (S4B,S4N), NH (S1B), NJ (S4B,S4N), NY (S2S3), PA (SNA), RI (S2B), SC (SNR), TX (S4B), VA (S4B), NB (SNA), NS (SNA), PE (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	45,118.8	6	0.9	< 1	0.0	0	0.0	0
Status 2	29,918.2	4	70.1	< 1	0.0	0	0.0	0
Status 3	705.2	< 1	468.8	< 1	0.0	0	13,727.3	2
Status 4	0.0	0	0.0	0	0.0	0	13.0	< 1
Total	75,742.1	9	539.8	< 1	0.0	0	13,740.2	2
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	136,836.7	17	1,002.1	< 1	0.0	0
Status 2	0.0	0	27,524.1	3	23,384.7	3	12.6	< 1
Status 3	0.0	0	6,218.1	< 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	170,582.0	21	24,386.8	3	12.6	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1.8	< 1	0.0	0	0.0	0
Status 2	0.0	0	53.1	< 1	51,288.2	6	0.0	0
Status 3	0.0	0	31,984.0	4	3,324.2	< 1	1,462.7	< 1
Status 4	0.0	0	0.0	0	417.5	< 1	0.0	0
Total	0.0	0	32,038.9	4	55,029.9	7	1,462.7	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	433.5	< 1	0.0	0	0.0	0
Status 2	24,925.6	3	17,667.9	2	0.0	0	0.0	0
Status 3	0.0	0	740.2	< 1	0.0	0	368.7	< 1
Status 4	0.0	0	0.0	0	5.1	< 1	0.0	0
Total	24,925.6	3	18,841.6	2	5.1	< 1	368.7	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	2	0.0	0	183,394.0 22			
Status 2	0.8	< 1	0.0	2	174,845.4 21			
Status 3	129.4	< 1	< 0.1	< 1	59,128.6 7			
Status 4	388,766.0	48	11,593.7	1	401,216.0 49			
Total	388,896.4	48	11,594.0	1	818,583.9 100			

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: A habitat specialist of salt and brackish marshes. Most breeding populations require nest sites above spring tides, and openings in vegetation, e.g., pools and creek edges where birds can forage on open mud and at bases of rooted vegetation. Habitats in the Southeast tend to contain fine-textured grasses such as saltgrass and drop-seed, and tall, coarse species like black needlerush. Low areas of habitat are dominated by smooth cordgrass. In less saline areas, inhabits muhly grass prairies (Post and Greenlaw 1994). M. Rubino, 12jan05.

Selected Map Units:

Functional Group	Map Unit Name
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 and Gulf Coastal Plain Interdunal Wetland
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
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	Atlantic Coastal Plain Northern Fresh and Oligohaline Tidal Marsh
Freshwater Tidal Marsh & Wetland	Florida Big Bend Fresh-Oligohaline Tidal Marsh

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.

Arnow, I. F. 1906. The seaside sparrow nesting in bushes. *Auk* 23:226.

DeRagon, W.R. 1988. Breeding ecology of seaside and sharp-tailed sparrows in Rhode Island salt marshes. M.S. thesis. University of Rhode Island, Kingston, Rhode Island.

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.

Ehrlich, P.R., D.S. Dobkin, and D. Wheye. 1992. *Birds in jeopardy: the imperiled and extinct birds of the United States and Canada, including Hawaii and Puerto Rico*. Stanford University Press, Stanford, California. 259 pp.

Fussell, J. III and M. Lyons. 1990. *Birds of the Outer Banks* [pamphlet]. Eastern National Parks and Monument Association Coastal Wildlife Refuge Society.

Fussell, J.O. III. 1994. *A birder's guide to coastal North Carolina*. Chapel Hill and London: The University of North Carolina Press.

Greenlaw, J.S. 1983. Microgeographic distribution of breeding seaside sparrows on New York salt marshes. Pages 99-114 in T.L. Quay, J.B. Funderburg, Jr., D.S. Lee, E.F. Potter, and C.S. Robbins (editors), *The Seaside Sparrow, its Biology and Management*. O

Greenlaw, J.S. 1992. Seaside Sparrow, *AMMODRAMUS MARITIMUS*. Pages 211-232 in K.J. Schneider and D.M. Pence, editors. *Migratory nongame birds of management concern in the Northeast*. U.S. Fish and Wildlife Service, Newton Corner, Massachusetts. 400 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.

Kale, H.W. 1983. Distribution, habitat, and status of breeding Seaside Sparrows in Florida. Pages 41-48 in T.L. Quay, J.B. Funderburg, Jr., D.S. Lee, E. F. Potter, and C.S. Robbins, editors. *The Seaside Sparrow: its biology and management*. Occas. Pap. Nort

Marshall, R. M. 1986. Breeding biology and habitat selection of the seaside sparrow (*AMMODRAMUS MARITIMUS MARITIMUS*) in a southeastern Massachusetts salt marsh. Lloyd Center for Environmental Studies, South Dartmouth, Massachusetts. Unpublished report.

Marshall, R. M., and S. E. Reinert. 1990. Breeding ecology of seaside sparrows in a Massachusetts salt marsh. *Wilson Bull.* 102:501-513.

- McDonald, M. V. 1988. Status survey of two Florida seaside sparrows and taxonomic review of the seaside sparrow assemblage. Technical Report No. 32, U.S. Fish and Wildlife Service, Jacksonville, Florida.
- Nicholson, D. J. 1928. Nesting habits of the seaside sparrows in Florida. *Wilson Bulletin* 40:225-37.
- Nicholson, D. J. 1946. Smyrna seaside sparrow. *Florida Nat.* 19:39-42.
- Post, W. 1970. Breeding bird census no. 46:salt marsh. *Audubon Field Notes* 24:771-772.
- Post, W. 1970. Breeding bird census no. 47:ditched salt marsh. *Audubon Field Notes* 24:772-3.
- Post, W. 1974. Functional analysis of space-related behavior in the seaside sparrow. *Ecology* 55:564-75.
- Post, W. 1981. Breeding bird census no. 44:salt marsh. *American Birds* 35:99, 104.
- Post, W., and J. S. Greenlaw. 1994. Seaside sparrow (*AMMODRAMUS MARITIMUS*). In *The Birds of North America*, No. 127 (A. Poole and F. Gill, eds.). Philadelphia: The Academy of Natural Sciences. 28 pp.
- Post, W., J. S. Greenlaw, T. L. Merriam, and L. A. Wood. 1983. Comparative ecology of northern and southern populations of the seaside sparrow. Pages 123-36 in T. L. Quay, J. B. Funderburg, Jr., D. S. Lee, E. F. Potter, and C. S. Robbins (editors). *The Seaside Sparrow, its Biology and Management*. Occas. Papers North Carolina Biol. Surv. 1983-5. 174 pp.
- Quay, T. L., et al., editors. 1983. *The seaside sparrow, its biology and management*. Occas. Pap. North Carolina Biol. Surv. 1983-5. 174 pp.
- Reinert, S. E., F. C. Golet, and W. R. DeRagon. 1981. Avian use of ditched and unditched salt marshes in southeastern New England: a preliminary report. Pages 1-23 in *Proceedings of the 27th Annual Meeting of the Northeastern Mosquito Control Association*.
- Robbins, C. S. 1983. Distribution and migration of seaside sparrows. Pages 31-40 in T. L. Quay, J. B. Funderburg, Jr., D. S. Lee, E. F. Potter, and C. S. Robbins (editors). *The Seaside Sparrow, its Biology and Management*. Occas. Papers North Carolina Biol. Surv. 1983-5. 174 pp.
- Sprunt, A., and E. B. Chamberlain. 1970. *South Carolina bird life*. Second edition. Univ. South Carolina Press, Columbia. 655 p.
- Stevenson, H. M., and B. H. Anderson. 1994. *The birdlife of Florida*. University Press of Florida, Gainesville. 892 pp.
- Stoll, M. J., and F. C. Golet. 1983. Status of the seaside sparrow in Rhode Island. *Aud. Soc. Rhode Island Rep.* 17:57-61.
- Sykes, P. W., Jr. 1980. Decline and disappearance of the dusky seaside sparrow from Merritt Island, Florida. *American Birds* 34:728-37.
- Terres, J.K. 1980. *The Audubon Society encyclopedia of North American birds*. Alfred A. Knopf, New York.
- Tomkins, I. R., 1941. Notes on MacGillivray's Seaside Sparrow. *Auk* 58:38-51.
- Walters, M. J. 1992. *A shadow and a song: the extinction of the dusky seaside sparrow*. Chelsea Green Publishing Company 256 pp.
- Werner, H. W. 1975. *The Biology of the Cape Sable Sparrow*. U.S. Fish and Wildlife Service and Everglades National Park, Homestead, Florida. 215 pp.
- Werner, H. W., and G. E. Woolfenden. 1983. The Cape Sable sparrow: its habitat, habits, and history. Pages 55-75 in T. L. Quay, J. B. Funderburg, Jr., D. S. Lee, E. F. Potter, and C. S. Robbins (editors). *The Seaside Sparrow, its Biology and Management*. Occas. Papers North Carolina Biol. Surv. 1983-5. 174 pp.
- Woolfenden, G. E. 1956. Comparative breeding behavior of *AMMOSPIZA CAUDACUTA* and *A. MARITIMA*. *Publ. Mus. Nat. Hist., University of Kansas* 10:45-75.
- Zink, R.M., and J.C. Avise. 1990. Patterns of mitochondrial DNA and allozyme evolution in the avian genus *AMMODRAMUS*. *Syst. Zool.* 39:148-161.