



# SOUTHEAST GAP ANALYSIS PROJECT



## Species Modeling Report

### Brown Noddy

*Anous stolidus*

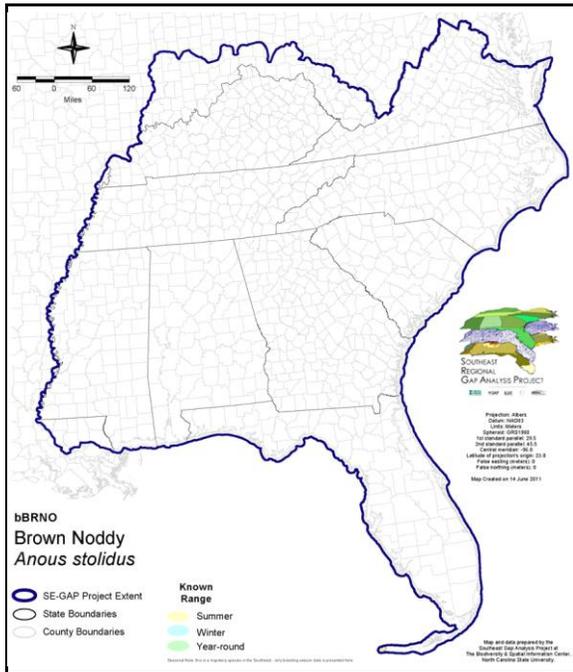
Taxa: Avian  
 Order: Charadriiformes  
 Family: Laridae

SE-GAP Spp Code: **bBRNO**

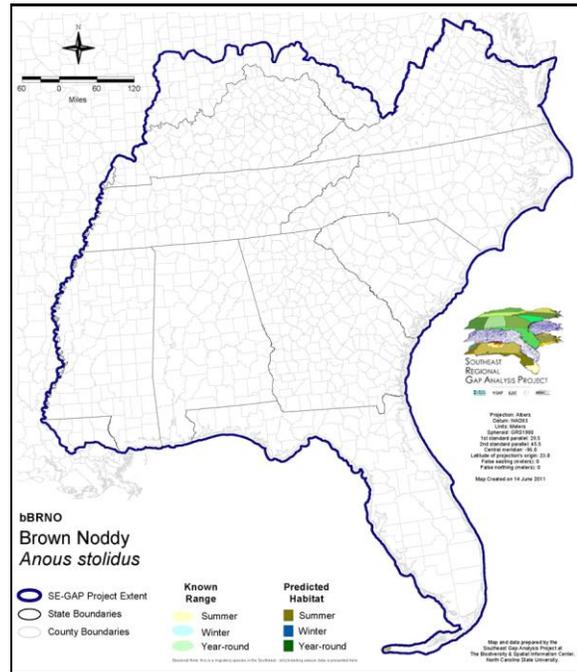
ITIS Species Code: 176941

NatureServe Element Code: ABNNM11010

#### KNOWN RANGE:



#### PREDICTED HABITAT:



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

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

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

Data Download: [http://www.basic.ncsu.edu/segap/datazip/region/vert/bBRNO\\_se00.zip](http://www.basic.ncsu.edu/segap/datazip/region/vert/bBRNO_se00.zip)

#### PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: ---

NS Global Rank: G5

NS State Rank: AL (SNA), FL (S1), GA (SNA), HI (SNR), LA (SNA), MS (SNA), NC (SNA), SC (SNA), TX (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	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	0.0	0	0.0	0	0.0	0
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	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	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	0.0	0	0.0	0	0.0	0
	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	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	0.0	0	0.0	0	0.0	0
	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	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	0.0	0	0.0	0	0.0	0
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0 0			
Status 2	0.0	0	0.0	0	0.0 0			
Status 3	0.0	0	0.0	0	0.0 0			
Status 4	0.0	0	40.0	100	40.0 100			
Total	0.0	0	40.0	100	40.0 100			

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: Nests only on Dry Tortugas. Nesting habitat on tropical coral atolls and cays; elevated ground on rocky cliffs; in herbaceous vegetation, shrubs, trees, or cacti. Not as pelagic in foraging as other tropical tern-like birds (Sooty & Bridled tern). M. Rubino, 31dec04.

Customized Model: There are no map units that represent coral atoll type habitats, so South Florida Shell Hash Beach is the only appropriate map unit for this species. In order to include the other keys that may be suitable, essentially, this species can be modeled by selecting all the islands in the Dry Tortugas.

I changed this model to be all the islands of the Dry Tortugas and 2000m away from them, i.e. into open ocean. Although Chadrine and Morris (1996) state "During breeding season, forages in waters within sight of colony out to several tens-of-kilometers from colony...", but they also note that the Brown Noddy is "not as pelagic a feeder as the Sooty Tern." I thought it was reasonable to include all the islands (not just the nesting colonies on Bush Key) and a relatively small extension into open ocean. MJR 3 October 2007.

### Selected Map Units:

Functional Group	Map Unit Name
Beach	South Florida Shell Hash Beach
Water	Open Water (Brackish/Salt)

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This data was compiled and/or developed  
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