



# SOUTHEAST GAP ANALYSIS PROJECT



## Species Modeling Report

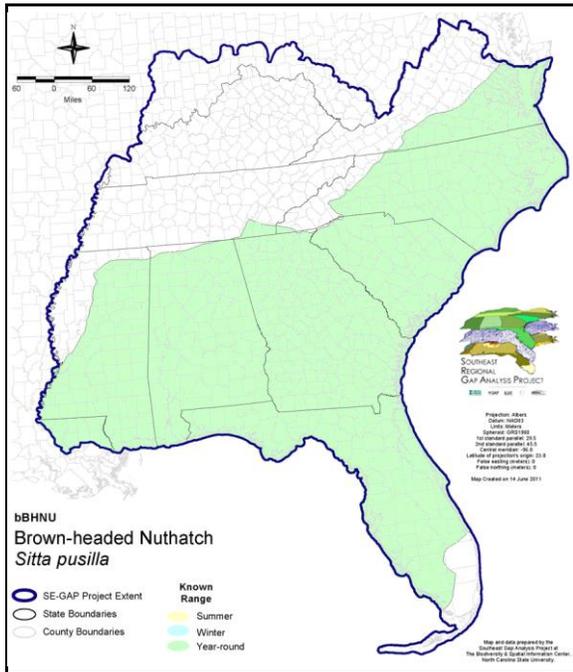
### Brown-headed Nuthatch

*Sitta pusilla*

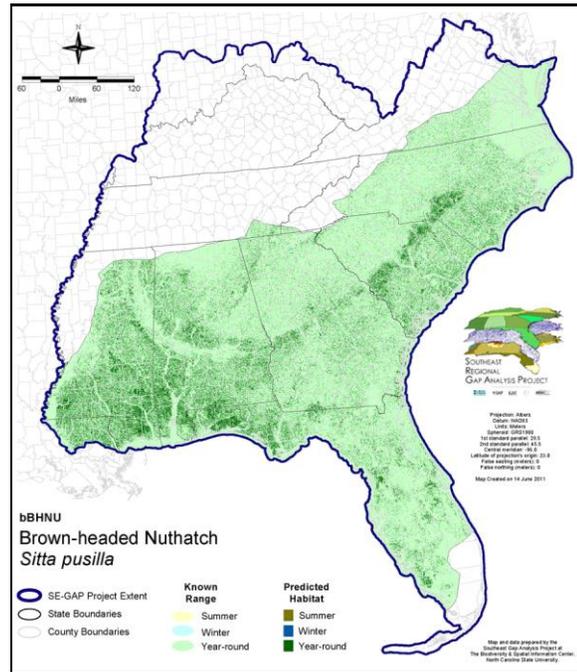
Taxa: Avian  
 Order: Passeriformes  
 Family: Sittidae

SE-GAP Spp Code: **bBHNU**  
 ITIS Species Code: 178785  
 NatureServe Element Code: ABPAZ01040

#### KNOWN RANGE:



#### PREDICTED HABITAT:



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

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

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

Data Download: [http://www.basic.ncsu.edu/segap/datazip/region/vert/bBHNU\\_se00.zip](http://www.basic.ncsu.edu/segap/datazip/region/vert/bBHNU_se00.zip)

#### PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: NY (PB)

NS Global Rank: G5

NS State Rank: AL (S5), AR (S4), DE (S2), FL (SNR), GA (S5), IL (SNA), IN (SNA), LA (S5), MD (S3S4), MO (SX), MS (S4B), NC (S5), NY (SNA), OK (S1), SC (S4), TN (S2B), TX (S4B), VA (S3S4), WI (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	19,364.3	< 1	1,478.1	< 1	0.0	0	0.0	0
Status 2	32,214.4	< 1	38,584.0	< 1	0.0	0	770.0	< 1
Status 3	107.6	< 1	596,932.7	5	2,172.3	< 1	279,259.7	2
Status 4	2.7	< 1	0.0	0	0.0	0	0.0	0
Total	51,689.1	< 1	636,994.8	5	2,172.3	< 1	280,029.8	2
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,840.3	< 1	59.0	< 1	951.3	< 1
Status 2	0.0	0	4,234.8	< 1	3,922.4	< 1	39.7	< 1
Status 3	32,189.5	< 1	17,440.0	< 1	0.0	0	2,184.1	< 1
Status 4	0.0	0	1.0	< 1	0.0	0	0.0	0
Total	32,189.5	< 1	23,516.6	< 1	3,981.3	< 1	3,175.1	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	306.5	< 1	0.0	0	0.0	0
Status 2	0.0	0	1,757.7	< 1	90,954.7	< 1	0.0	0
Status 3	3,712.8	< 1	114,149.0	< 1	36,163.5	< 1	155,573.7	1
Status 4	0.0	0	0.0	0	41,099.5	< 1	33.2	< 1
Total	3,712.8	< 1	116,213.2	< 1	168,217.7	1	155,606.9	1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,932.0	< 1	0.0	0	0.0	0
Status 2	1,605.7	< 1	9,845.6	< 1	0.0	0	1,017.5	< 1
Status 3	0.0	0	7,222.6	< 1	6,436.0	< 1	25,650.1	< 1
Status 4	0.0	0	0.0	0	559.6	< 1	0.0	0
Total	1,605.7	< 1	19,000.2	< 1	6,995.6	< 1	26,667.5	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	25,931.5 < 1			
Status 2	0.0	0	0.0	< 1	184,946.6 1			
Status 3	37.6	< 1	1.0	< 1	1,279,232.4 15			
Status 4	10,443,030.3	83	2,226.0	< 1	10,528,049.6 83			
Total	10,443,067.9	83	2,227.1	< 1	12,018,160.1 100			

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):**

**Year-round Model:**

Habitat Description: Potter et al (1980) lists this nuthatch as a 'common permanent resident of open pine woods throughout the coastal plain and most of the piedmont.' Simpson (1992) states its status in the mountains as a 'rare and local permanent resident in pine forests below 2,500 ft.' It is absent on the barrier islands (Fussell 1994). They appear to prefer open pinewoods (Harison 1975, Potter et al 1980), often mixed with deciduous tree species (Ehrlich et al 1988, Kaufman 1996). Hamel (1992) asserts the Brown-headed nuthatch favors mature pine stands, and is not common in dense forests.

The nest is usually excavated by both sexes in a dead pine tree, although occasionally a deciduous tree or fence post is used (Kaufman 1996). According to Potter et al (1980) nest height ranges from 'a few inches to about 90 feet' above the ground, generally though it is less than 15 feet. With regard to other cavities, Brown-headed nuthatches rarely use old woodpecker holes (Ehrlich et al 1988, Potter et al 1980). Oft times the pair will begin several cavities before completing one for use (Kaufman 1996, Ehrlich et al 1988).

Quoted form State habitat notes - K. Cook - 4-9-05

Elevation Mask: < 762m

**Selected Map Units:**

Functional Group	Map Unit Name
Forest/Woodland	Alabama Ketona Glade and Woodland
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland - Pine Modifier
Forest/Woodland	Atlantic Coastal Plain Fall-Line Sandhills Longleaf Pine Woodland - Loblolly Modifier
Forest/Woodland	Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Open Understory Modifier
Forest/Woodland	Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Scrub/Shrub Understory Modifier
Forest/Woodland	Atlantic Coastal Plain Northern Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Northern Mixed Oak-Heath Forest
Forest/Woodland	Atlantic Coastal Plain Southern Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Upland Longleaf Pine Woodland
Forest/Woodland	Central Appalachian Oak and Pine Forest
Forest/Woodland	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Mixed Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Pine Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Loblolly Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Open Understory Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Scrub/Shrub Modifier
Forest/Woodland	East Gulf Coastal Plain Maritime Forest
Forest/Woodland	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest - Offsite Pine Modifier
Forest/Woodland	Florida Longleaf Pine Sandhill - Open Understory Modifier
Forest/Woodland	Florida Longleaf Pine Sandhill - Scrub/Shrub Understory Modifier
Forest/Woodland	Northeastern Interior Dry Oak Forest - Virginia/Pitch Pine Modifier
Forest/Woodland	Ridge and Valley Calcareous Valley Bottom Glade and Woodland
Forest/Woodland	Southeastern Interior Longleaf Pine Woodland
Forest/Woodland	Southern Appalachian Low Mountain Pine Forest
Forest/Woodland	Southern Piedmont Dry Oak-(Pine) Forest - Loblolly Pine Modifier
Forest/Woodland	Southern Piedmont Dry Oak-(Pine) Forest - Mixed Modifier
Forest/Woodland	Southern Piedmont Dry Oak-Heath Forest - Mixed Modifier
Forest/Woodland	Southern Piedmont Dry Oak-Heath Forest - Virginia/Pitch Pine Modifier
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest - Pine Modifier
Prairie	East Gulf Coastal Plain Black Belt Calcareous Prairie and Woodland - Herbaceous Modifier
Wetlands	Atlantic Coastal Plain Northern Wet Longleaf Pine Savanna and Flatwoods
Wetlands	Atlantic Coastal Plain Southern Wet Pine Savanna and Flatwoods
Wetlands	Central Florida Pine Flatwoods
Wetlands	East Gulf Coastal Plain Jackson Plain Dry Flatwoods - Open Understory Modifier
Wetlands	East Gulf Coastal Plain Near-Coast Pine Flatwoods - Open Understory Modifier
Wetlands	East Gulf Coastal Plain Near-Coast Pine Flatwoods - Scrub/Shrub Understory Modifier

Wetlands	East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods
Wetlands	South Florida Pine Flatwoods
Wetlands	South-Central Interior/Upper Coastal Plain Wet Flatwoods

**CITATIONS:**

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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](http://www.basic.ncsu.edu/segap)

Compiled: 15 September 2011

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