



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

White-breasted Nuthatch

Sitta carolinensis

Taxa: Avian

Order: Passeriformes

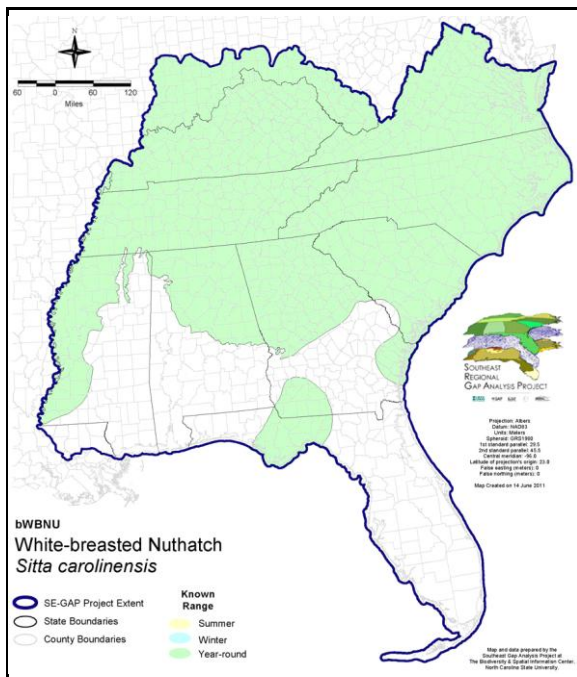
Family: Sittidae

SE-GAP Spp Code: **bWBNU**

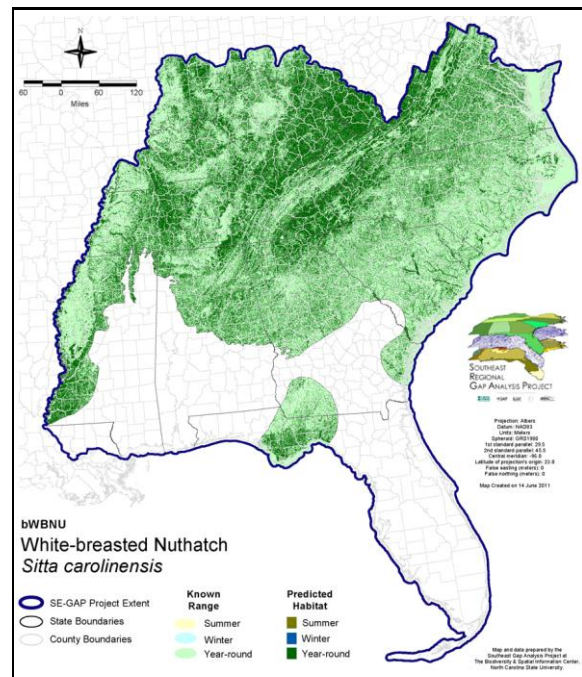
ITIS Species Code: 178775

NatureServe Element Code: ABPAZ01020

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/bWBNU_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: ID (P), KY (N), NJ (S/S), NV (YES), NY (PB), RI (Not Listed), UT (None), WA (C-Part), BC (4 (2005)), QC (Non suivie)

NS Global Rank: G5

NS State Rank: AL (S5), AR (S4), AZ (S5), CA (S5), CO (S5B,S4N), CT (S5), DC (S3B,S3N), DE (S3), FL (S2), GA (S4S5), IA (S5B), ID (S4), IL (S5), IN (S4), KS (S4), KY (S5), LA (S2), MA (S5), MD (S5), ME (S5), MI (S5), MN (SNR), MO (SNR), MS (S4B), MT (S4), NC (S5B,S5N), ND (SNR), NE (S5), NH (S5), NJ (S4B,S4N), NM (S5B,S5N), NV (S5), NY (S5), OH (S5), OK (S5), OR (S4), PA (S5), RI (S5B), SC (SNR), SD (S5B,S5N), TN (S5), TX (S3B), UT (S3S4), VA (S5), VT (S5B,S5N), WA (S4), WI (S5B), WI (S5B), WV (S5B,S5N), WY (S5B,S5N), AB (S4), BC (S4), MB (S5), NB (S5), NS (S4), ON (S5), PE (S4), QC (S5B), SK (S5B,S5N)

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	56,310.5	< 1	33,593.1	< 1	0.0	0	0.0	0
Status 2	106,190.6	< 1	358,946.1	1	0.0	0	4,332.5	< 1
Status 3	3,141.6	< 1	1,946,527.4	6	46,496.7	< 1	232,660.3	< 1
Status 4	57.6	< 1	< 0.1	< 1	0.0	0	9.6	< 1
Total	165,700.3	< 1	2,339,066.7	7	46,496.7	< 1	237,002.4	< 1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	273,138.7	< 1	8.6	< 1	0.0	0
Status 2	0.0	0	10,988.9	< 1	2,256.4	< 1	40.1	< 1
Status 3	18,467.0	< 1	95,017.9	< 1	0.0	0	167.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	18,467.0	< 1	379,145.4	1	2,265.0	< 1	207.4	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,087.0	< 1	72.0	< 1	0.0	0
Status 2	0.0	0	17,222.0	< 1	440,063.9	1	1,407.6	< 1
Status 3	16,737.2	< 1	137,527.7	< 1	134,851.0	< 1	77,751.5	< 1
Status 4	0.0	0	0.0	0	51,567.1	< 1	0.0	0
Total	16,737.2	< 1	155,836.7	< 1	626,554.0	2	79,159.1	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	11,212.7	< 1	0.0	0	0.0	0
Status 2	5,583.6	< 1	71,936.2	< 1	5.0	< 1	1,154.9	< 1
Status 3	0.0	0	2,306.8	< 1	3,021.0	< 1	17,819.6	< 1
Status 4	0.0	0	2.1	< 1	1,888.0	< 1	0.0	0
Total	5,583.6	< 1	85,457.7	< 1	4,914.0	< 1	18,974.5	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	375,422.6 1			
Status 2	0.0	0	0.0	0	1,020,127.8 3			
Status 3	403.8	< 1	1.0	< 1	2,732,897.6 14			
Status 4	26,868,101.4	81	22,315.1	< 1	26,995,450.5 82			
Total	26,868,505.2	81	22,316.0	< 1	31,123,898.5 100			

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: White-breasted nuthatches breed in deciduous or mixed forests, especially in mature uplands. They can also be found in bottomlands, parks and residential areas with mature trees. On the coastal plain they do breed in longleaf pine (GA citations). Hamel (1992) lists it as uncommon to fairly common in the mountains below 5,000 ft., parts of the upper piedmont, and parts of the upper coastal plain, while uncommon to rare in the lower piedmont and lower coastal plain. They are generally found in mature hardwood forests, but may also be bred in mixed deciduous and coniferous forests (Pravosudov and Grubb 1993). Kaufman (1996) states however they are 'rarely found in pure coniferous forest.' Hamel (1992) suggests it is more numerous in upland hardwood forests, but may be in bottomlands as well, so long as mature trees are present. Often favors open areas or woodland edge provided by water, roads, or clearings near nests (Kaufman 1996, Pravosudov and Grubb 1993). Residential areas, campuses, and parks may also be used if they contain mature trees (Hamel 1992).

Nests are usually built in natural cavities or old woodpecker holes from 15 to 60 feet above the ground (Kaufman 1996). Hamel (1992) and Kaufman (1996) list the White-breasted nuthatch as sometimes excavating its own cavity, however Potter et al (1980) states this happens very rarely.

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

Elevation Mask: < 1524m

Selected Map Units:

Functional Group	Map Unit Name
Forest/Woodland	Alabama Ketona Glade and Woodland
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland - Hardwood Modifier
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland - Pine Modifier
Forest/Woodland	Appalachian Hemlock-Hardwood Forest
Forest/Woodland	Appalachian Serpentine Woodland
Forest/Woodland	Appalachian Shale Barrens
Forest/Woodland	Atlantic Coastal Plain Dry and Dry-Mesic Oak Forest
Forest/Woodland	Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Offsite Hardwood Modifier
Forest/Woodland	Atlantic Coastal Plain Mesic Hardwood and Mixed Forest
Forest/Woodland	Atlantic Coastal Plain Northern Mixed Oak-Heath Forest
Forest/Woodland	Central and Southern Appalachian Montane Oak Forest
Forest/Woodland	Central and Southern Appalachian Northern Hardwood Forest
Forest/Woodland	Central Appalachian Alkaline Glade and Woodland
Forest/Woodland	Central Appalachian Oak and Pine Forest
Forest/Woodland	Central Appalachian Pine-Oak Rocky Woodland
Forest/Woodland	Central Interior Highlands Calcareous Glade and Barrens
Forest/Woodland	Central Interior Highlands Dry Acidic Glade and Barrens
Forest/Woodland	Cumberland Sandstone Glade and Barrens
Forest/Woodland	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Hardwood Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Mixed Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Offsite Hardwood Modifier
Forest/Woodland	East Gulf Coastal Plain Limestone Forest
Forest/Woodland	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest
Forest/Woodland	East Gulf Coastal Plain Northern Loess Bluff Forest
Forest/Woodland	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland - Hardwood Modifier
Forest/Woodland	East Gulf Coastal Plain Northern Mesic Hardwood Forest
Forest/Woodland	East Gulf Coastal Plain Southern Loess Bluff Forest
Forest/Woodland	East Gulf Coastal Plain Southern Mesic Slope Forest
Forest/Woodland	Nashville Basin Limestone Glade
Forest/Woodland	Northeastern Interior Dry Oak Forest - Mixed Modifier
Forest/Woodland	Northeastern Interior Dry Oak Forest-Hardwood Modifier
Forest/Woodland	Northern Atlantic Coastal Plain Dry Hardwood Forest

Forest/Woodland	Ridge and Valley Calcareous Valley Bottom Glade and Woodland
Forest/Woodland	South-Central Interior Mesophytic Forest
Forest/Woodland	Southern and Central Appalachian Cove Forest
Forest/Woodland	Southern and Central Appalachian Mafic Glade and Barrens
Forest/Woodland	Southern and Central Appalachian Oak Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest - Xeric
Forest/Woodland	Southern Coastal Plain Dry Upland Hardwood Forest
Forest/Woodland	Southern Coastal Plain Oak Dome and Hammock
Forest/Woodland	Southern Interior Low Plateau Dry-Mesic Oak Forest
Forest/Woodland	Southern Interior Low Plateau Dry-Mesic Oak Forest - Evergreen Modifier
Forest/Woodland	Southern Piedmont Dry Oak-(Pine) Forest - Hardwood Modifier
Forest/Woodland	Southern Piedmont Dry Oak-(Pine) Forest - Mixed Modifier
Forest/Woodland	Southern Piedmont Dry Oak-Heath Forest - Hardwood 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 Piedmont Glade and Barrens
Forest/Woodland	Southern Piedmont Mafic Hardpan Woodland
Forest/Woodland	Southern Piedmont Mesic Forest
Forest/Woodland	Southern Piedmont Northern Triassic Basin Dry Forest
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest - Hardwood Modifier
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest - Pine Modifier
Wetlands	Atlantic Coastal Plain Blackwater Stream Floodplain Forest - Forest Modifier
Wetlands	Atlantic Coastal Plain Brownwater Stream Floodplain Forest
Wetlands	Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest - Taxodium/Nyssa Modifier
Wetlands	Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest - Oak Dominated Modifier
Wetlands	Atlantic Coastal Plain Northern Basin Peat Swamp
Wetlands	Atlantic Coastal Plain Small Blackwater River Floodplain Forest
Wetlands	Atlantic Coastal Plain Small Brownwater River Floodplain Forest
Wetlands	Atlantic Coastal Plain Xeric River Dune
Wetlands	Central Appalachian Floodplain - Forest Modifier
Wetlands	Central Appalachian Riparian - Forest Modifier
Wetlands	Cumberland Riverscour
Wetlands	East Gulf Coastal Plain Large River Floodplain Forest - Forest Modifier
Wetlands	East Gulf Coastal Plain Near-Coast Pine Flatwoods - Offsite Hardwood Modifier
Wetlands	East Gulf Coastal Plain Near-Coast Pine Flatwoods - Open Understory Modifier
Wetlands	East Gulf Coastal Plain Small Stream and River Floodplain Forest
Wetlands	East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods
Wetlands	Lower Mississippi River Bottomland and Floodplain Forest
Wetlands	Lower Mississippi River Bottomland Depressions - Forest Modifier
Wetlands	Mississippi River Low Floodplain (Bottomland) Forest
Wetlands	Mississippi River Riparian Forest
Wetlands	North-Central Appalachian Acidic Swamp
Wetlands	North-Central Interior and Appalachian Rich Swamp
Wetlands	South-Central Interior Large Floodplain - Forest Modifier
Wetlands	South-Central Interior Small Stream and Riparian
Wetlands	Southern Coastal Plain Blackwater River Floodplain Forest
Wetlands	Southern Coastal Plain Hydric Hammock
Wetlands	Southern Coastal Plain Nonriverine Cypress Dome
Wetlands	Southern Piedmont Large Floodplain Forest - Forest Modifier
Wetlands	Southern Piedmont Small Floodplain and Riparian Forest

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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