



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

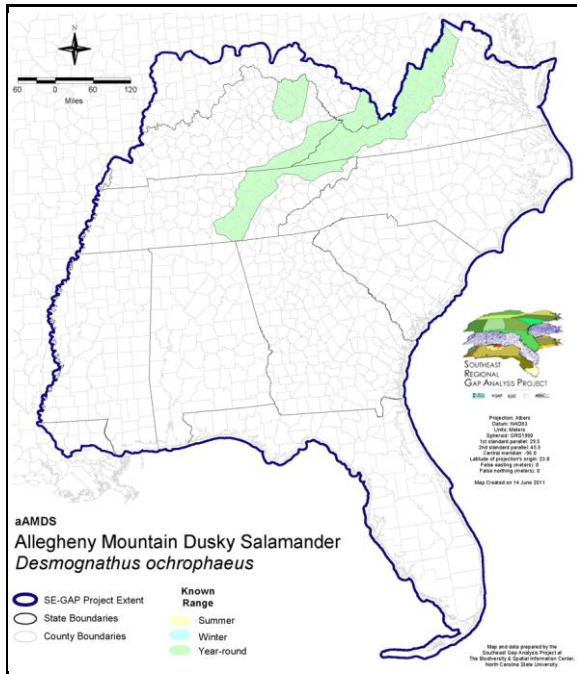
Allegheny Mountain Dusky Salamander

Desmognathus ochrophaeus

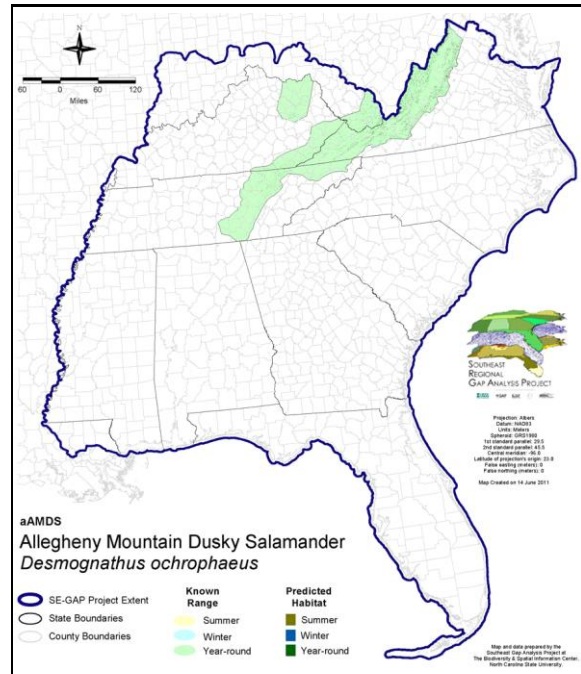
Taxa: Amphibian
 Order: Caudata
 Family: Plethodontidae

SE-GAP Spp Code: **aAMDS**
 ITIS Species Code: 173641
 NatureServe Element Code: AAAAD03070

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/aAMDS_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: KY (N), NJ (U), NY (GN), ON (END), QC (Susceptible)

NS Global Rank: G5

NS State Rank: KY (S4), MD (S5), NJ (SH), NY (S5), OH (SNR), PA (S5), TN (S5), VA (S4), VT (SNA), WV (S4), ON (S1), QC (S1)

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	44.6	< 1	0.0	0	0.0	0
Status 2	0.0	0	17,455.2	8	0.0	0	0.0	0
Status 3	0.0	0	40,726.7	18	5.1	< 1	7.1	< 1
Status 4	2.6	< 1	0.0	0	0.0	0	0.0	0
Total	2.6	< 1	58,226.5	26	5.1	< 1	7.1	< 1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,753.6	4	0.0	0	0.0	0
Status 2	0.0	0	415.6	< 1	0.0	0	0.0	0
Status 3	0.0	0	1,989.8	< 1	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	11,159.0	5	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	7,258.4	3	31.5	< 1
Status 3	0.0	0	416.5	< 1	540.5	< 1	389.3	< 1
Status 4	0.0	0	0.0	0	31.5	< 1	0.0	0
Total	0.0	0	416.5	< 1	7,830.4	3	420.8	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	164.8	< 1	0.0	0	0.0	0
Status 2	0.0	0	497.2	< 1	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	0.5	< 1	0.0	0
Total	0.0	0	662.0	< 1	0.5	< 1	0.0	0
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	8,962.9 4			
Status 2	0.0	0	0.0	0	25,657.9 11			
Status 3	0.0	0	0.0	0	44,075.1 37			
Status 4	108,367.5	48	0.3	< 1	108,431.3 48			
Total	108,367.5	48	0.3	< 1	187,127.2 100			

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: Found near stream margins and on wet, mossy rockfaces in mesic woodlands, usually hardwoods or mixed pine-hardwoods (Wilson 1995). At high elevations, they may be found far from running water (Petranka 1998). S. Smith 18Feb05

Elevation Mask: < 1676m

Hydrography Mask:

Freshwater Only

Fast Current Only

Utilizes flowing water features with buffer of 60m from selected water features.

Selected Map Units:

Functional Group	Map Unit Name
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland - Hardwood Modifier
Forest/Woodland	Appalachian Hemlock-Hardwood Forest
Forest/Woodland	Central and Southern Appalachian Montane Oak Forest
Forest/Woodland	Central and Southern Appalachian Northern Hardwood Forest
Forest/Woodland	Central Appalachian Oak and Pine Forest
Forest/Woodland	Northeastern Interior Dry Oak Forest-Hardwood Modifier
Forest/Woodland	Southern and Central Appalachian Cove Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest - Xeric
Forest/Woodland	Southern Piedmont Dry Oak-Heath Forest - Virginia/Pitch Pine Modifier
Rock Outcrop	Central Interior Acidic Cliff and Talus
Rock Outcrop	Central Interior Calcareous Cliff and Talus
Rock Outcrop	North-Central Appalachian Acidic Cliff and Talus
Rock Outcrop	North-Central Appalachian Circumneutral Cliff and Talus
Wetlands	Central Appalachian Riparian - Forest Modifier
Wetlands	Central Appalachian Riparian - Herbaceous Modifier
Wetlands	South-Central Interior Small Stream and Riparian

CITATIONS: Petranka, J. W. 1998. Salamanders of the United States and Canada. Washington DC: Smithsonian Inst. Press.

Tilley, S. G., and M. J. Mahoney. 1996. Patterns of genetic differentiation in salamanders of the DESMOGNATHUS OCHROPHAEUS complex (Amphibia: Plethodontidae). Herpetological Monographs 10:1-41.

Wilson, L. A. 1995. The Land Manager's Guide to the amphibians and reptiles of the South. Chapel Hill, NC: The Nature Conservancy.

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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.