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## ***Strongylura marina*** - (Walbaum, 1792)

Atlantic Needlefish

**Unique Identifier:** ELEMENT\_GLOBAL.2.106117

**Element Code:** AFCNA01010

**Informal Taxonomy:** Animals, Vertebrates - Fishes - Bony Fishes - Other Bony Fishes



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Kingdom	Phylum	Class	Order	Family	Genus
Animalia	Craniata	Actinopterygii	Beloniformes	Belonidae	Strongylura

Check this box to expand all report sections:

### Concept Reference

#### Concept Reference:

Robins, C.R., R.M. Bailey, C.E. Bond, J.R. Brooker, E.A. Lachner, R.N. Lea, and W.B. Scott. 1991. Common and scientific names of fishes from the United States and Canada. American Fisheries Society, Special Publishing 20. 183 pp.

**Concept Reference Code:** B91ROB01NAUS

**Name Used in Concept Reference:** *Strongylura marina*

#### Taxonomic Comments:

Sometimes referred to in literature as *S. TIMUCU*, which is a distinct species (Lee et al. 1980). See Boughton et al. (1991) and Lovejoy and Collette (2001) for phylogenies of the Belonidae.

### Conservation Status

#### NatureServe Status

**Global Status:** G5

**Global Status Last Reviewed:** 20Sep1996

**Global Status Last Changed:** 20Sep1996

**Rounded Global Status:** G5 - Secure

**Nation:** United States

**National Status:** N5

#### U.S. & Canada State/Province Status

United States	Alabama (S5), Delaware (SNR), Florida (SNR), Georgia (S4), Louisiana (S4), Maine (SNR), Maryland (SNR), Massachusetts (S4), Mississippi (S5), New Jersey (SNR), New York (S2S3), North Carolina (S5), Pennsylvania (SNR), Rhode Island (SNR), South Carolina (SNR), Texas (S3S4), Virginia (SNR)
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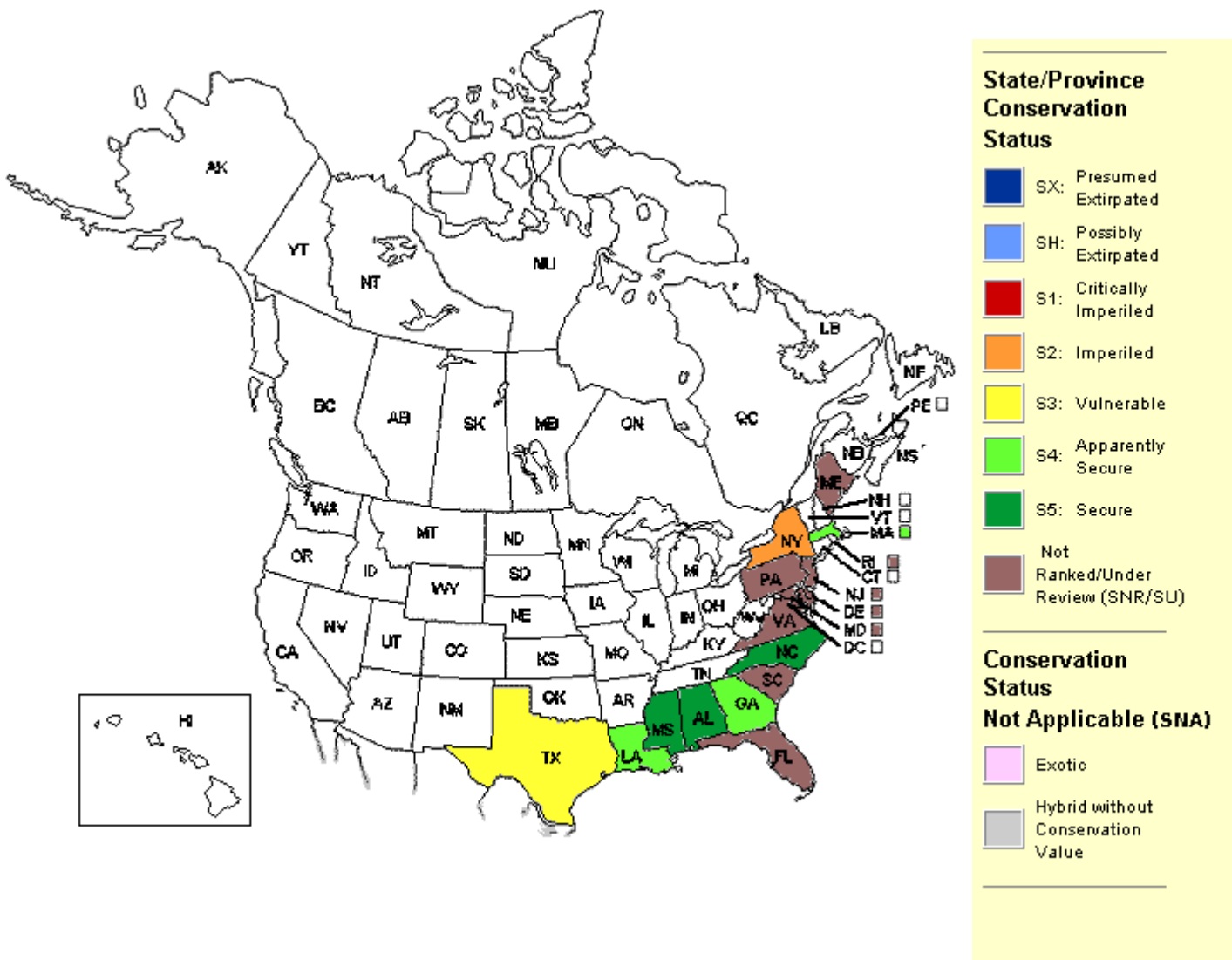
#### Other Statuses

## NatureServe Conservation Status Factors

### Distribution



### U.S. States and Canadian Provinces



**Endemism:** occurs (regularly, as a native taxon) in multiple nations

U.S. & Canada State/Province Distribution	
United States	AL, DE, FL, GA, LA, MA, MD, ME, MS, NC, NJ, NY, PA, RI, SC, TX, VA

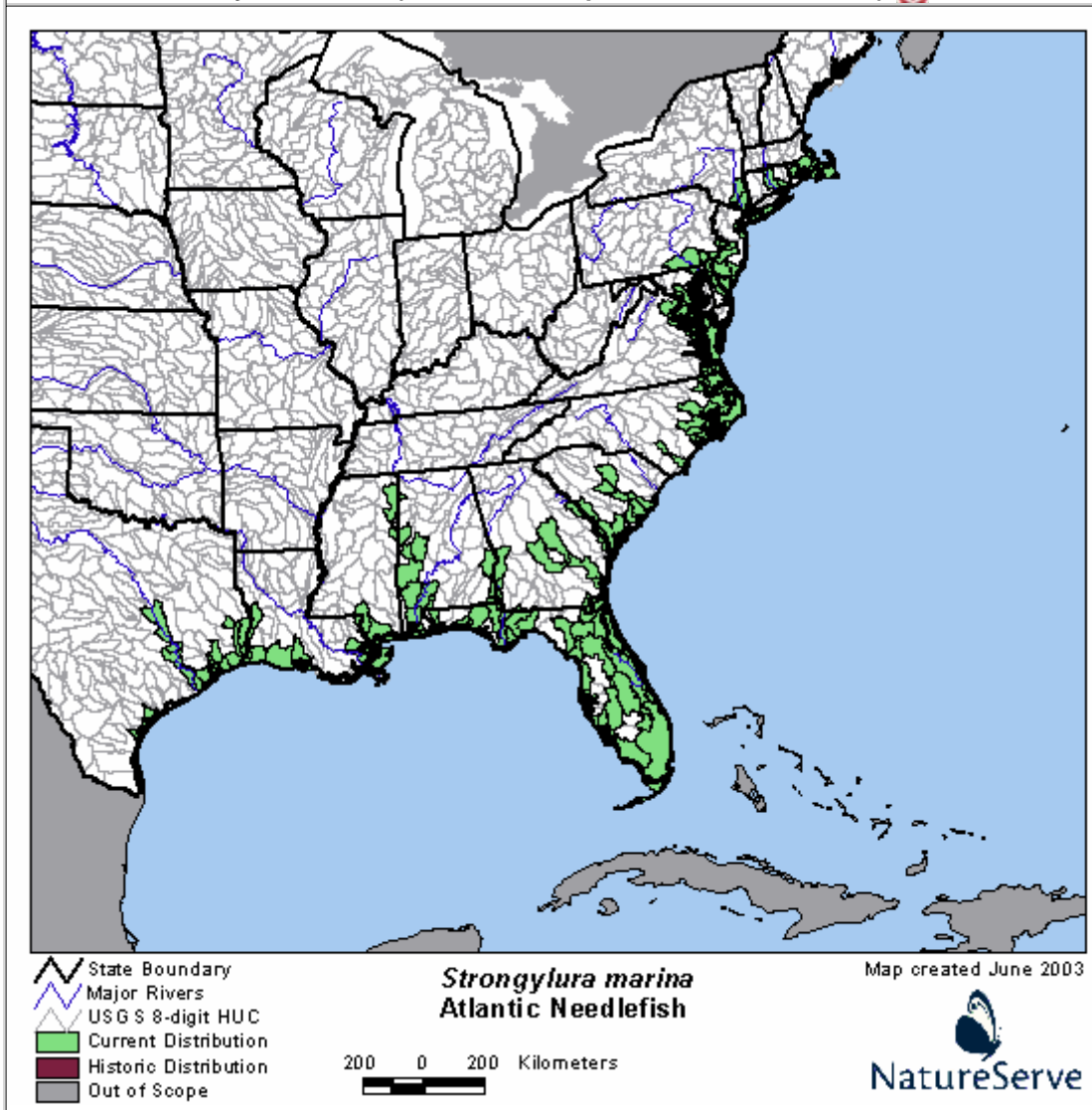
### Range Map

No map available.

**Global Range Comments:** Along Atlantic coast from Maine and northern Gulf of Mexico to Brazil.

U.S. Distribution by County (based on available natural heritage records) ?	
State	County Name (FIPS Code)
NY	Putnam (36079)

U.S. Distribution by Watershed (based on available natural heritage records) ?	
Watershed Region ?	Watershed Name (Watershed Code)
02	Hudson-Wappinger (02020008)

U.S. Distribution by Watershed (based on multiple information sources) Ecology & Life History 

**Reproduction Comments:** May spawn in summer (Manooch 1984).

**Habitat Type:** Freshwater

**Non-Migrant:** N

**Locally Migrant:** N

**Long Distance Migrant:** N

**Marine Habitat(s):** Near shore

**Estuarine Habitat(s):** Bay/sound, Lagoon, River mouth/tidal river

**Riverine Habitat(s):** BIG RIVER, Low gradient, MEDIUM RIVER

**Habitat Comments:**

Coastal waters, bays, estuaries, and rivers; moves upstream in fresh water as far as Fall Line (Lee et al. 1980, Robins and Ray 1986). Spawns in fresh and brackish waters in shallows with submerged algal masses (Lee et al. 1980).

**Adult Food Habits:** Piscivore

**Immature Food Habits:** Piscivore

**Food Comments:** Eats small fishes (Lee et al. 1980).

**Length:** 64 centimeters

**Economic Attributes**



**Management Summary**



**Population/Occurrence Delineation**



**Population/Occurrence Viability**



**U.S. Invasive Species Impact Rank (I-Rank)**



**Authors/Contributors**



**Element Ecology & Life History Edition Date:** 01Oct1993

**Element Ecology & Life History Author(s):** Hammerson, G.

Zoological data developed by NatureServe and its network of natural heritage programs (see [Local Programs](#)) and other contributors and cooperators (see [Sources](#)).

## References



- ALLEN, CRAIG R., STEPHEN DEMARAIS, AND R. SCOTT LUTZ. 1994. RED IMPORTED FIRE ANT IMPACT ON WILDLIFE: AN OVERVIEW. TEXAS J. SCI. 46(1):51-59.
- Bahr, L.M. and J.J. Hebrard. 1976. Barataria Basin: Biological Characterization. CWR, LSU. Sea Grant Publication No. LSU-T-76-005.
- Boughton, D. A., B. B. Collette, and A. R. McCune. 1991. Heterochrony in jaw morphology of needlefishes (Teleostei: Belonidae). Syst. Zool. 40:
- Herke, W.H., B.D. Rogers, and J.A. Grimes. 1984. Sabine fisheries study. Louisiana Coop. Fish Wildl. Res. Unit, LSU Baton Rouge. 2 vols.
- Herke, W.H., et al. 1986. Draft final report of the Cameron Creole watershed fisheries investigations. 2 vols. LSU, Cooperative Fish. Wildl. Res. Unit.
- Hoese, H. D., and R.H. Moore. 1977. Fishes of the Gulf of Mexico. Texas A & M University Press, College Station. 327pp.
- Lee, D. S., C. R. Gilbert, C. H. Hocutt, R. E. Jenkins, D. E. McAllister, and J. R. Stauffer, Jr. 1980. Atlas of North American Freshwater Fishes. North Carolina State Museum of Natural History. 867 pp.
- Lovejoy, N. R., and B. B. Collette. 2001. Phylogenetic relationships of New World needlefishes (Teleostei: Belonidae) and the biogeography of transitions between marine and freshwater habitats. Copeia 2001:324-338.
- Manooch, C. S., III. 1984. Fisherman's guide. Fishes of the southeastern United States. North Carolina State Museum of Nat. Hist., Raleigh. 362 pp.
- Nelson, J. S., E. J. Crossman, H. Espinosa-Perez, L. T. Findley, C. R. Gilbert, R. N. Lea, and J. D. Williams. 2004. Common and scientific names of fishes from the United States, Canada, and Mexico. American Fisheries Society, Special Publication 29, Bethesda, Maryland. 386 pp.
- Perry, W. Guthrie, and Brandon J. Carter. Seasonal occurrence of fishes collected from beach seining, Southwest LA. 1979. La. Acad. of Sci. 42( ): 24-38.

- ROSS, STEPHEN T. 1996. INLAND FISHES OF MISSISSIPPI. SELECTED SPECIES ACCOUNTS. COAUTHORED WITH W.M. BRENNEMAM, W.T. SLACK, M.T. O'CONNELL, AND T.L. PETERSON. ILLUSTRATED BY D.G. ROSS. DRAFT COPY.
- Robins, C. R., and G. C. Ray. 1986. A Field Guide to Atlantic Coast Fishes of North America. Houghton Mifflin Co., Boston, Massachusetts. 354 pp.
- Robins, C.R., R.M. Bailey, C.E. Bond, J.R. Brooker, E.A. Lachner, R.N. Lea, and W.B. Scott. 1991. Common and scientific names of fishes from the United States and Canada. American Fisheries Society, Special Publishing 20. 183 pp.
- Walls, J.G. 1975. Fishes of the northern Gulf of Mexico. T.F.H. Publications, Inc., Ltd., N.J. 432pp.

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**Note:** This report was printed on **August 18, 2008**

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#### **Citation for data on website including Watershed and State Distribution maps:**

NatureServe. 2008. NatureServe Explorer: An online encyclopedia of life [web application]. Version 7.0. NatureServe, Arlington, Virginia. Available <http://www.natureserve.org/explorer>. (Accessed: August 18, 2008 ).

#### **Citation for Bird Range Maps of North America:**

Ridgely, R.S., T.F. Allnut, T. Brooks, D.K. McNicol, D.W. Mehlman, B.E. Young, and J.R. Zook. 2003. Digital Distribution Maps of the Birds of the Western Hemisphere, version 1.0. NatureServe, Arlington, Virginia, USA.

#### **Acknowledgement Statement for Bird Range Maps of North America:**

"Data provided by NatureServe in collaboration with Robert Ridgely, James Zook, The Nature Conservancy - Migratory Bird Program, Conservation International - CABS, World Wildlife Fund - US, and Environment Canada - WILDSPACE."

#### **Citation for Mammal Range Maps of North America:**

Patterson, B.D., G. Ceballos, W. Sechrest, M.F. Tognelli, T. Brooks, L. Luna, P. Ortega, I. Salazar, and B.E. Young. 2003. Digital Distribution Maps of the Mammals of the Western Hemisphere, version 1.0. NatureServe, Arlington, Virginia, USA.

#### **Acknowledgement Statement for Mammal Range Maps of North America:**

"Data provided by NatureServe in collaboration with Bruce Patterson, Wes Sechrest, Marcelo Tognelli, Gerardo Ceballos, The Nature Conservancy-Migratory Bird Program, Conservation International-CABS, World Wildlife Fund-US, and Environment Canada-WILDSPACE."

NOTE: Full metadata for the Bird Range Maps of North America is available at:  
<http://www.natureserve.org/library/birdDistributionmapsmetadatav1.pdf>.

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