

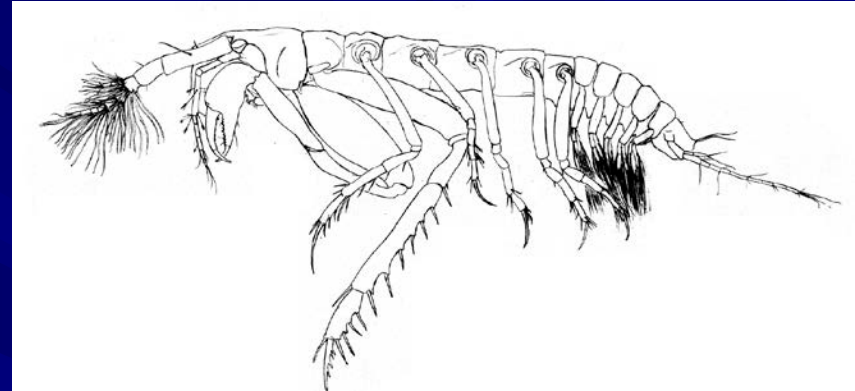
The Southeastern Regional Taxonomic Center (SERTC)

David Knott

Marine Resources Research Institute, SCDNR



Taxonomy is a branch of science that discovers and describes living things

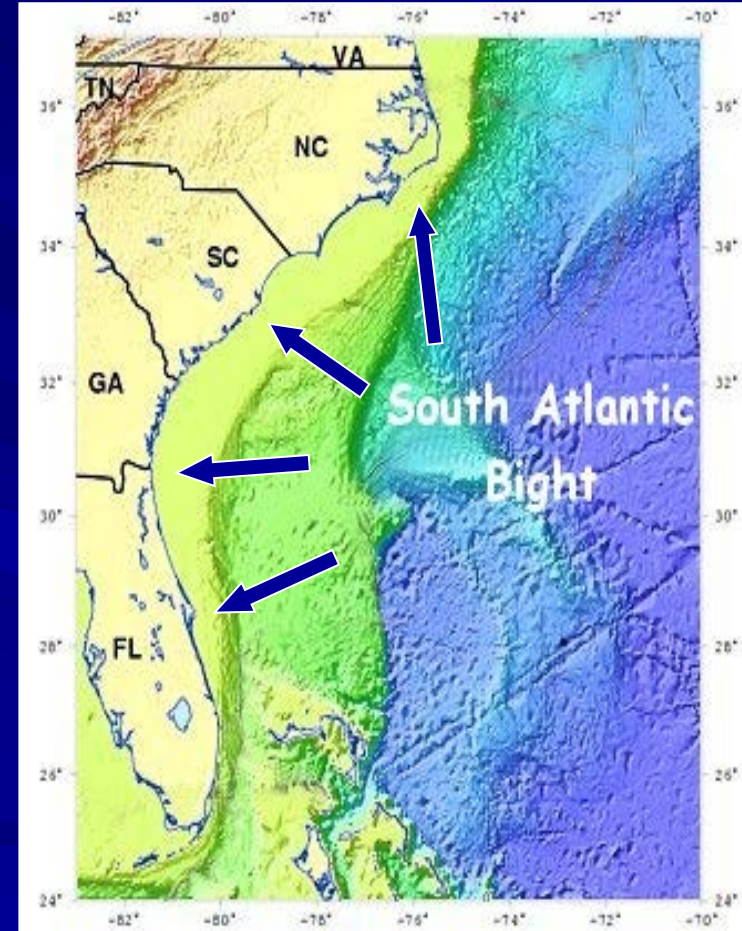


- ☀ There is a serious lack of trained taxonomists and also of data and knowledge about marine biodiversity, especially in the South Atlantic Bight region
- ☀ A decline in taxonomists threatens our ability to understand our marine biodiversity

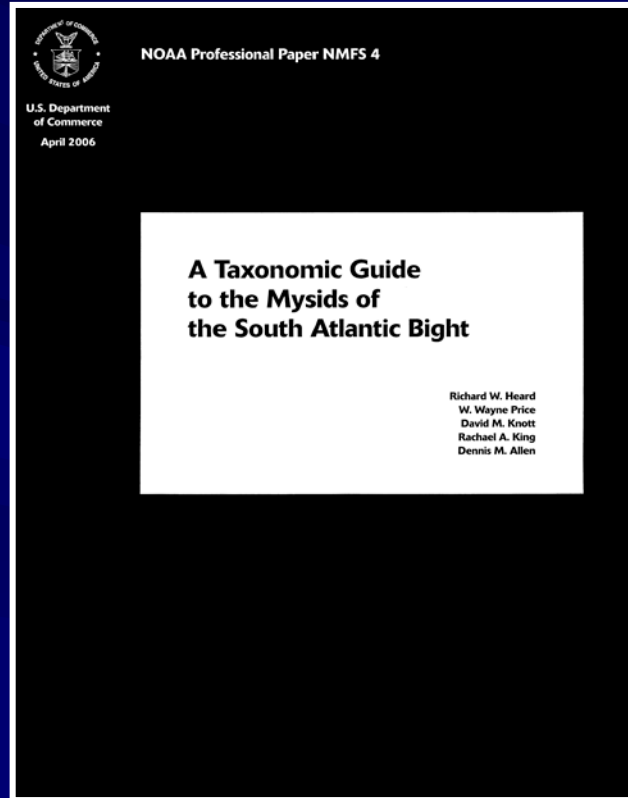
The SERTC began operating in 2001 at the Marine Resources Research Institute, SCDNR, with funding administered by the National Marine Fisheries Service.

The primary goal of the SERTC:

- *To serve as a focused **regional taxonomic resource** for individuals and institutions that are interested in the biodiversity of the marine and estuarine environments of the southeastern United States.*



PREPARATION OF FAUNAL GUIDES



Mysida

Thalassinidea

Scyphozoa & Cubozoa

Octocorallia

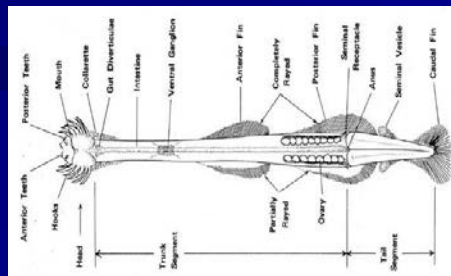
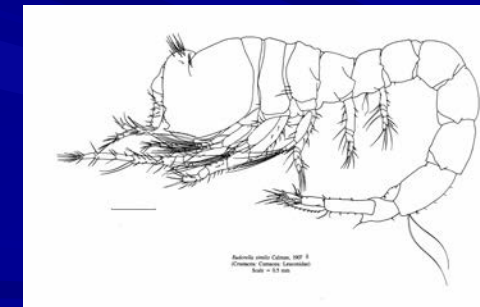
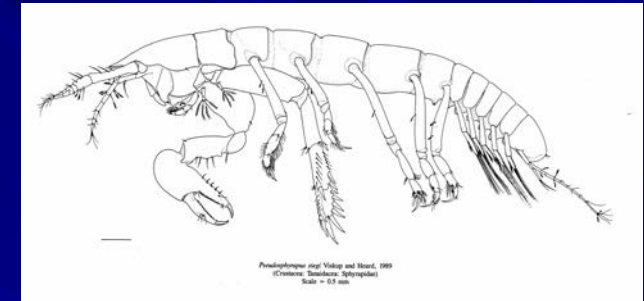
Tanaidacea

Echinodermata

Epicaridean Isopoda

Cumacea

Chaetognatha





Specify
File Record Help

Collection objects
Filter Data Form Grid Reports

CatSeries: Main CatNo: Previous No: 990236
Accession No: 20040004 Catalog By: Knott, David Date: / /

Determination
Taxon: Macrobrachium oleria Current Year:
Determiner ID: Knott, David Type Status: 410 detor
Determination Remarks: Megalopal settlement study collection 990236
Locality ID: North and Central America, United States: South Carolina: Charleston: J

Collectors
Collector: Order: Collect:
Knott, David 1
Remarks: collected during period of very low salinities in Charleston Harbor following Hurricane Hugo on 9/21-9/22, 1989, 21.2 C, 9.4 ppt
Collection Date: 10/ /

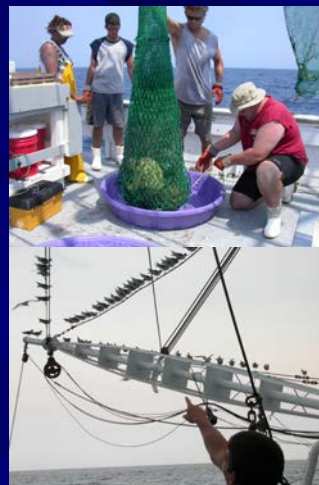
Preparation: Loaned? (Loan ID): Count: Prep By: Prep Date: Field No:
Fluid: 1

Collectors
Collector: Knott, David Order: 1
Remarks: hogs hair filter on floating megalopal collector; collector tied to floating dock in position A
New Delete Save Cancel
1 of 1 Edit

ParentTaxonNameID: Macrobrachium
TaxonName: oleria TaxonomicUnitTypeID: Species
CommonName: bristled river shrimp Author: (Wiegmann, 1835)
FullTaxonName: Macrobrachium oleria
Accepted: Yes AcceptedID:
Remarks: Source: ITIS_crustacea_2001.m Protection Status:
ParentTaxonNameID: Palaemonidae
TaxonName: Macrobrachium TaxonomicUnitTypeID: Genus
CommonName: Author: Date: 1868
FullTaxonName: Macrobrachium
Accepted: Yes AcceptedID:
Remarks: Source: ITIS_crustacea_2001.m Protection Status:
1 of 1 Browse Invertebrate

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Start Specify

Specify[®] data window



Oak Ridge National Laboratory, Oak Ridge, TN
 Nova Southeastern University, Fort Lauderdale, FL
 Florida Museum of Natural History, University of Florida, Gainesville, FL
 University of Louisiana Lafayette, LA
 American Museum of Natural History, New York, NY
 National Museum of Natural History (Smithsonian Institution), Washington, D.C.
 University of Windsor, Ontario, Canada
 Natural History Museum of Los Angeles County, Los Angeles, CA
 Instituto de Ciencias Marinas de Andalucia, Cadiz, Spain
 Justus Liebig Universität, Giessen, Germany
 Zoologisches Museum der Universität Zürich, Switzerland
 National University of Singapore

SERTC Synidotea study

16S alignment synodotea 05-11-05

6_2003_0029_16S	CGCCTAGCTT TATAAATTCT AGGTAGGATC TGCCCAATGA GTACTT-GAA	49
7_2003_0029_16S	CGCCTAGCTT TATAAATTCT AGGTAGGATC TGCCCAATGA GTACTT-GAA	49
B_16S	CGCCTAGCTT TATAAATTCT AGGTAGGATC TGCCCAATGA GTACTT-GAA	49
2_2003_0044_16S	CGCCTAGCTT TATAAATTCT AGGTAGGATC TGCCCAATGA GTACTT-GAA	49
3_2003_0044_16S	CGCCTAGCTT TATAAATTCT AGGTAGGATC TGCCCAATGA GTACTT-GAA	49
10_2003_0044_16	CGCCTAGCTT TATAAATTCT AGGTAGGATC TGCCCAATGA GTACTT-GAA	49
A_16S	CGCCTAGCTT TATAAATTCT AGGTAGGATC TGCCCAATGA GTACTT-GAA	49
1_2003_0066_16S	CGCCTAGCTT TATAAATTCT AGGTAGGATC TGCCCAATGA GTACTT-GAA	49
5_2003_0066_16S	CGCCTAGCTT TATAAATTCT AGGTAGGATC TGCCCAATGA GTACTT-GAA	49
8_NewJersey_16S	CGCCTAGCTT TATAAATTCT AGGTAGGATC TGCCCAATGA GTACTT-GAA	49
14_2005_0149_16	CGCCTAGCTT TATAAATTCT AGGTAGGATC TGCCCAATGA GTACTT-GAA	49
14_2005_0149_16	CGCCTAGCTT TATAAATTCT AGGTAGGATC TGCCCAATGA GTACTT-GAA	49
13_2003_0043_16	CGC-TTAATT TATAATTTTA A-GTAGTATC TGCCCAATGA ATAATTTTAA	48

What does it mean to be a “regional taxonomic resource”?





photos by Pearse Webster

Charybdis hellerii
(portunid crab)

*SCDNR clam farm
Folly River, SC
October 13, 1986*

Yumm!



SERTC - Mozilla Firefox

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http://www.dnr.sc.gov/marine/sertc/index.html

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SERTC

Southeastern Regional Taxonomic Center



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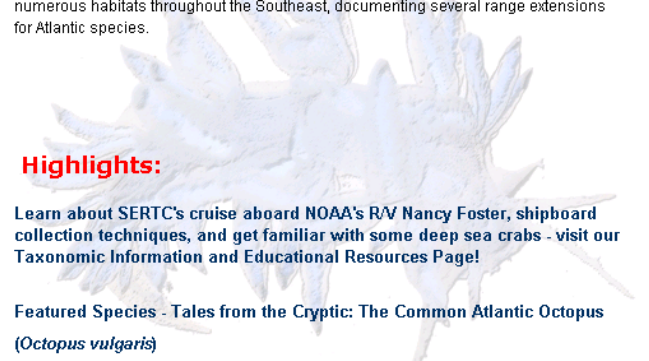
Welcome to the SERTC!

The Southeast Regional Taxonomic Center is located in the Marine Resources Research Institute ([South Carolina Department of Natural Resources](#)) in Charleston, South Carolina. Our facility has developed a curated collection of marine and estuarine animals from the South Atlantic Bight and is maintaining a searchable library based on taxonomic peer-reviewed literature. Through the use of collaborations with other labs and museums, SERTC has collected and preserved representative specimens from numerous habitats throughout the Southeast, documenting several range extensions for Atlantic species.


Highlights:

Learn about SERTC's cruise aboard NOAA's R/V Nancy Foster, shipboard collection techniques, and get familiar with some deep sea crabs - visit our [Taxonomic Information and Educational Resources Page!](#)

Featured Species - Tales from the Cryptic: The Common Atlantic Octopus (*Octopus vulgaris*)



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Charleston, SC 29413

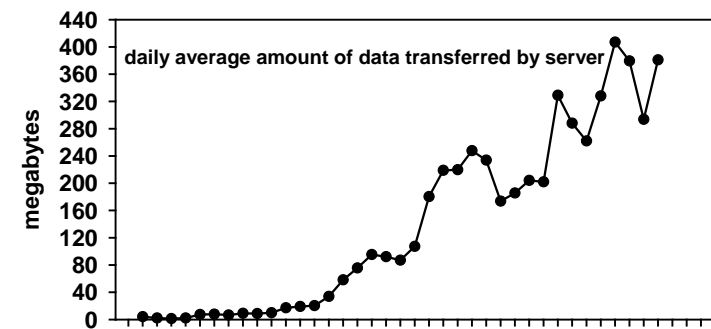
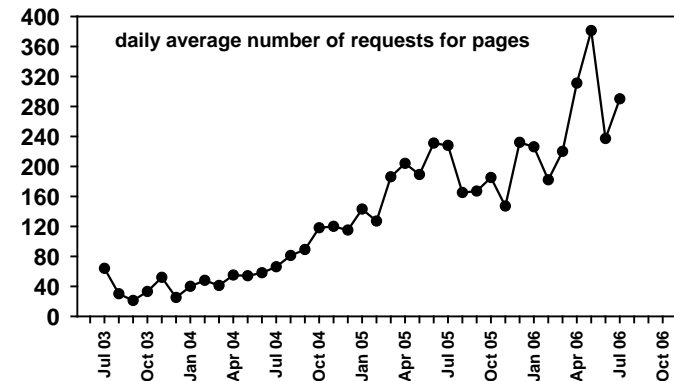


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5:23 PM

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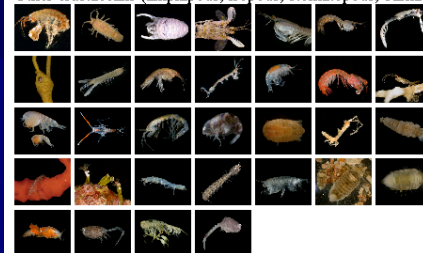
Photo Gallery

Below are images of collected fauna from the South Atlantic Bight. Roll mouse over image for caption and click on image for larger view (Images may take a moment to upload....)

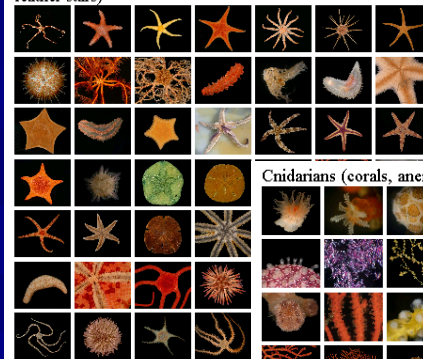
Decapods (shrimp, crabs, lobsters)



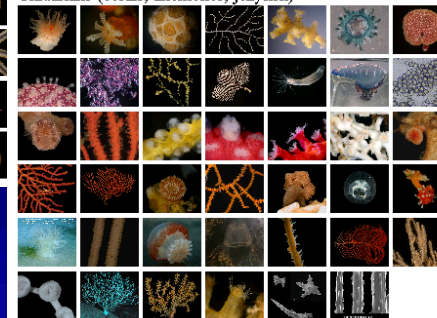
Other crustaceans (amphipods, isopods, stomatopods, barnacles)



Echinoderms (sea stars, brittle stars, sea cucumbers, sea urchins, feather stars)



Cnidarians (corals, anemones, jellyfish)



Mollusks (clams, snails, chitons, mussels, sea slugs, squid)



Chelicerates (sea spiders and horseshoe crabs) and Insects



The Sea Slug Forum - Tambja oliva - Mozilla Firefox

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http://www.sea slug forum.net/showthread.php?p=14392

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Tambja oliva Meyer, 1977

Order: NUDIBRANCHIA
Suborder: DORIDIA
Superfamily: ANADORDOIDEA
Family: Polyschidae
Subfamily: Neobornidae

DISTRIBUTION

Known from a few records from the Caribbean region.

PHOTO

Photo from J.L. Cervera of specimen from the Bahamas. Photographer: Jack Wortfold.

The shape of this species is typical for the genus. The body is a deep olive green to light green or olive yellow, often with macroscopic flecks of yellow, blue or turquoise. The tips of the gills, posterior foot, and oral tentacles are light to dark purple or a dark blue-green. The rhinophores are very dark, often purple or translucent white with opaque cream spots. Grows to at least 20 mm in length. Radial typical of the genus *Tambja*.

This species is known from a few records from the Caribbean region.

- Meyer, K. B. (1977) Dord nudibranchs of the Caribbean coast of the Panama Canal Zone. *Bulletin of Marine Science*, 27(2): 299-307.

Authenticity details

Rudman, W.B., 2005 (August 23) *Tambja oliva* Meyer, 1977. [In] *Sea Slug Forum*. Australian Museum, Sydney. Available from <http://www.sea slug forum.net/showthread.php?p=14392>

Related messages

Tambja oliva? from North Carolina, USA

Reply

August 24, 2005
From: Ray Simpson

Here's a picture (it is not mine but it's remained unidentified for some time on the Southeastern Regional Taxonomic Center (SERTC) website. The photo was taken by Jerry McLelland during the 2003 Explorer cruise to offshore hard bottoms off the South Carolina coast.



Locality: Carolina shelf edge, South Carolina, USA West Atlantic. Photographer: Jerry McLelland

The species resembles *Tambja oliva*, previously known only from Central America. The olive-yellow base color with blue rhinophores and gills seems to fit the description of *T. oliva*. As you discuss [message #14292] I wouldn't be surprised if *T. ? grataiosa* was indeed a *Roboastra* and *T. oliva* was its food. It seems that there are *Roboastra/Tambja* predator/prey pairings... i.e. *?gratiosa* / *oliva* in the NW Atl. and the undescribed sp. / *stegosauriformis* or *divae* in the SW Atl. I'd love to see a picture of *T. divae*, it seems like a stunning animal! The SERTC website is at <http://www.dnr.state.sc.us/marine/sertc/>

Thanks for reading my babbling.)

Ray Simpson

P51MurtNB@aol.com

Simpson, R., 2005 (Aug 24) *Tambja oliva?* from North Carolina, USA. [Message in] *Sea Slug Forum*. Australian Museum, Sydney. Available from <http://www.sea slug forum.net/showthread.php?p=14392>

Dear Ray,

I suspect this animal is *Tambja oliva* but we have so little information on it that it is hard to be

Ocean Biogeographic Information System - Mozilla Firefox

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Notes to users

The SERTC Invertebrate Database: Invertebrates of the southeastern United States

Abstract: The Southeastern Regional Taxonomic Center (SERTC), at the South Carolina Department of Natural Resources, provides services as a taxonomic resource to students, educators and scientists working on the marine and coastal invertebrates of the South Atlantic Bight (SAB) Region. A regionally focused and data based voucher collection of preserved animals is held at the center (including material preserved specifically for future molecular work), as well as a digital image library and an extensive invertebrate taxonomic literature collection relating to the SAB region. SERTC also provides the resources for the computerization of the fish collection catalog of the Grice Marine Laboratory (College of Charleston). The SERTC Invertebrate Database aims to provide OBIS with much needed distributional information on the regional invertebrate fauna.

Citation:

Usage Restrictions:

Website: <http://www.dnr.state.sc.us/marine/sertc/>

Contact: Dr. Rachael King

Email: kingr@mr.dnr.state.sc.us

Total records provided through DiGIR server: 2097

Done

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6:48 PM



