

SCAMIT Provisional Voucher Sheet Guidelines

Introduction – The following emended guidelines were adopted by the Species List Review Committee (SLRC) on June 20, 2022. They supersede any and all earlier documents. These guidelines go into effect upon publication to the SCAMIT website.

Purpose – These guidelines that follow specify the form and process by which a provisional species may be added to the SCAMIT Species List.

Taxonomic Data – A SCAMIT provisional voucher sheet should minimally contain the following elements:

1. Taxon name including an abbreviated phylogeny, following the strict orthography provided for in the most current SCAMIT Species List. The binomial should initially be an in-house provisional designation for the originating agency (e.g., *Leitoscoloplos* sp LA1). A list of currently accepted agency abbreviations is included below. To avoid duplication, the author should check the current SCAMIT species. Once the review process is completed and the species is accepted by the Committee, the Committee will provide a SCAMIT provisional designation (e.g., *Leitoscoloplos* sp A).
2. Author and date of origination of the voucher sheet.
3. Applicable synonyms. Indicate “none” if no synonyms are available. The original in-house designation will be added as a synonym upon publication in SCAMIT.
4. Location(s) for all material examined. Each lot should include the following: program and/or agency, station (including latitude/longitude if possible), date of collection, sample depth, and the number of specimens examined from each lot.
5. Diagnostic characters.
6. Comparison with morphologically similar taxa outlining the differences. List all citations used within this section, including published articles, SCAMIT newsletters and personal communications. Use “sensu” to differentiate between different published descriptions.
7. Images that demonstrate diagnostic characters (digital images are required, line drawings at print resolution can be used in conjunction with digital images to help accentuate a detail that is difficult to capture with a digital image).
8. Known geographical distribution (single occurrences are acceptable but should be updated before SCAMIT designation if additional data is available).
9. Literature used.
10. The final document should be a single PDF formatted file.

Additional data that should be included if available but not required for inclusion on the SCAMIT Species List:

1. P-codes for BRI calculation or ITI-codes.
2. Sediment type where the species was found.
3. A broader discussion of habitat and known associations, including commensalism or parasitism.

Review – A voucher sheet must take the following route for inclusion on the SCAMIT Species List:

1. Upload the provisional voucher sheet to the SCAMIT Provisional Taxa Submissions website.
2. Send an email to the General Discussion List Server alerting the membership of the provisional species name and phylum and to let them know that it has been added to the provisional website.

Ask for a review of the provisional voucher sheet prior to the next SCAMIT meeting for that phylum.

3. At each SCAMIT meeting every effort will be made to review one or two relevant voucher sheets. The individual(s) leading the meeting should include it as part of the agenda announcing which sheets are to be reviewed a few weeks ahead of time. The author of the provisional voucher will need to attend the meeting. The sheet should be annotated via Google Docs thru the provisional website. The site administrator will update the status of the voucher sheet.
4. The author will make any updates or additions to the voucher sheet that came as a result of the initial review process and email the updated voucher sheet to the webmaster to update the file on the SCAMIT Provisional Taxa Submission website.
5. The SCAMIT SLRC will review revised voucher sheets at their next meeting and provide additional input or approve the voucher sheet for inclusion in the next SCAMIT Species List and provide a SCAMIT provisional designation and SCAMIT authorship if needed.

Publishing – After acceptance by the SLRC, the provisional species will be eligible for inclusion in the next edition of the SCAMIT Species List. SLRC approved voucher sheets can be published in the next available SCAMIT newsletter and can be added to the SCAMIT taxonomic toolbox on the official SCAMIT website.

Deadline – Voucher sheets need to be reviewed and accepted by the SCAMIT SLRC by **April 15** of the publication year of the next SCAMIT Species List (published on July 1). Publication in the SCAMIT newsletter by this date is not required for inclusion, but is strongly encouraged.

The SLRC Chair and list editors have the final say on all provisional species proposals.

Approved Agency Abbreviations

DCE – Dancing Coyote Environmental

HYP – City of Los Angeles

LA – Los Angeles County Sanitation Districts

OC – Orange County Sanitation Districts

SD – City of San Diego

SF – City of San Francisco

See voucher sheet below for an example.

Species: *Glycera* sp B SCAMIT, 2022 §

Synonyms: *Glycera* sp LA1 Parker, 1999 §

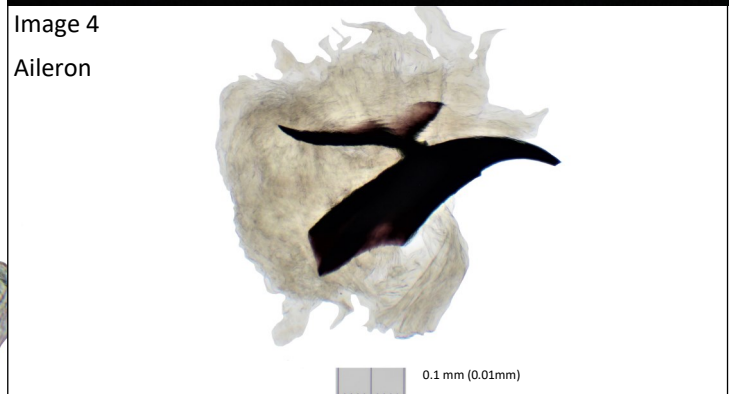
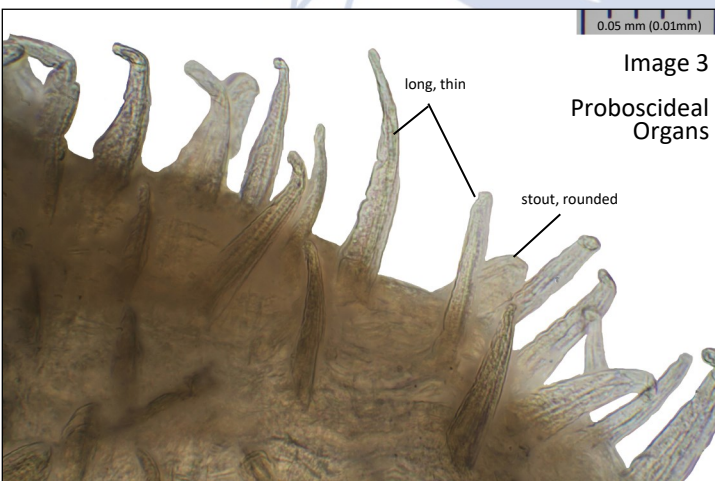
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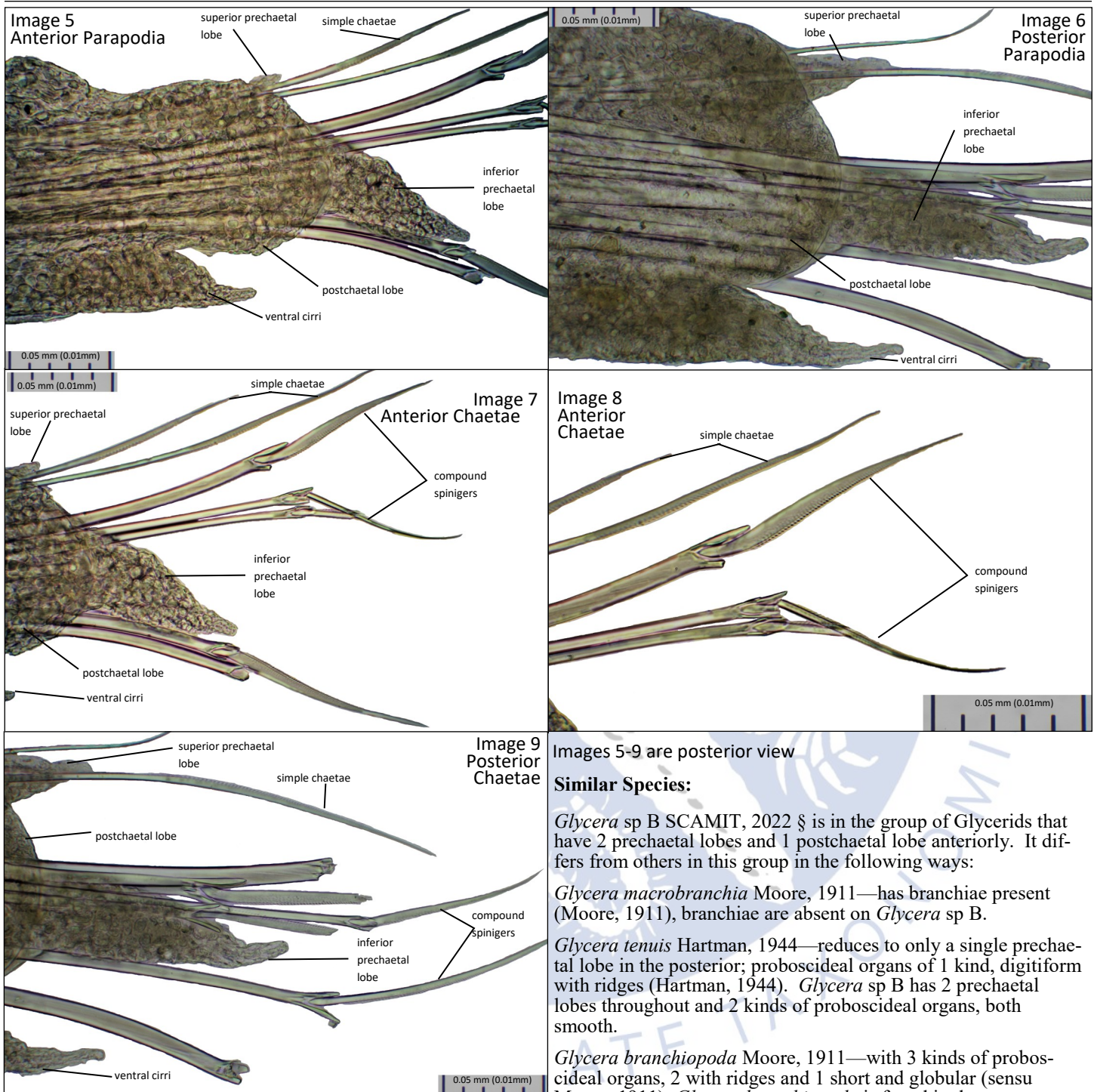
ITI—Group 2

Subfamily:
 Family: Glyceridae
 Suborder: Glyceriformia
 Order: Phyllodocida
 Infraclass:
 Subclass: Errantia
 Class: Polychaeta
 Phylum: Annelida

Diagnostic Characters:

- 1) Body triannulate (Image 1).
- 2) Prostomium long, appears smooth or weakly annulated; w/ 4 minute antennae (Image 2).
- 3) Proboscideal organs of 2 types: long, thin & smooth and stout, rounded & smooth (Image 3).
- 4) Ailerons with long & short shaft connected by a membrane (Image 4).
- 5) Anterior parapodia with minute superior, and larger inferior prechaetal lobe (superior lobe very small, often overlooked); postchaetal lobe low, rounded (Image 5). Superior lobe becomes larger posteriorly, becoming obviously 2 prechaetal lobes in posterior (Image 6).
- 6) Dorsal cirri high on body wall, larger than superior prechaetal lobe (Image 2).
- 7) Ventral cirri large & pointed (Images 5 & 6).
- 8) Parapodia with 1-2 simple chaetae in superior position, numerous compound spinigers in inferior position (Images 7, 8 & 9).





Images 5-9 are posterior view

Similar Species:

Glycera sp B SCAMIT, 2022 § is in the group of Glycerids that have 2 prechaetal lobes and 1 postchaetal lobe anteriorly. It differs from others in this group in the following ways:

Glycera macrobranchia Moore, 1911—has branchiae present (Moore, 1911), branchiae are absent on *Glycera* sp B.

Glycera tenuis Hartman, 1944—reduces to only a single prechaetal lobe in the posterior; proboscideal organs of 1 kind, digitiform with ridges (Hartman, 1944). *Glycera* sp B has 2 prechaetal lobes throughout and 2 kinds of proboscideal organs, both smooth.

Glycera branchiopoda Moore, 1911—with 3 kinds of proboscideal organs, 2 with ridges and 1 short and globular (sensu Moore, 1911). *Glycera branchiopoda* is found in deeper water,

from depths of 440 m (sensu Hilbig, 1994). *Glycera* sp B has 2 types of proboscideal organs, both are smooth, and is found in shallow waters, less than 100 m.

Glycera oxycephala Ehlers, 1887—has 2 types of proboscideal organs, both with ridges (sensu Martinez-Lara, 2002) and a dorsal cirri inserted low on the body wall, near the parapodial base (sensu Hartman, 1968). *Glycera* sp B has smooth proboscideal organs and the dorsal cirri is inserted high on the body wall.

Glycera nana Johnson, 1901—superior and inferior prechaetal lobes are of nearly equal size throughout (Johnson, 1901 & Hilbig, 1994). *Glycera* sp B has a greatly reduced superior prechaetal lobe in anterior setigers.

**Discussion:**

The Annotated Tabular Guide to the common shelf-depth Glyceridae off Southern California by RML 11/02 in the SCAMIT taxonomic toolbox incorrectly illustrates the prechaetal lobes of *Glycera* sp LA1 Parker, 1999 §. The drawings do not show the small, superior prechaetal lobe on the anterior and median parapodia. This lobe is very small and is easily overlooked. Specimens that appear to have only 1 prechaetal lobe anteriorly and 2 lobes posteriorly should be re-examined to determine the state of the anterior prechaetal lobes. Removing a parapodia and viewing on a compound microscope might be necessary to determine its presence or absence.

Hartman (1950 & 1968) describe *Glycera oxycephala* as having only a single type of proboscoidal organ, however, the Annotated Tabular Guide to the common shelf-depth Glyceridae off Southern California shows *G. oxycephala* as having 2 types of proboscoidal organs. I believe this description of 2 types of proboscoidal organs came from Böggemann (2002) where he synonymized 75% of the described species (166 species down to 42). Many of his synonymies seem to be poorly justified, increasing the number of cosmopolitan species at a time when many cosmopolitan species are being shown to be species complexes of local cryptic species. An additional review of local *G. oxycephala* would be needed to resolve this issue.

Material Examined:

B*98-2490—west of San Miguel Island, 75m (1 ind.)

0720-2D—Pt. Vicente, Palos Verdes, 31m (5 ind.) (33.74120N, 118.42130W—15JUL20)

Also from LACSD stations 1D (31m—33.76500N, 118.43530W—25JUL18, 22JUL19, 14JUL20); 2D (31m—33.74120N, 118.42130W—13JUL95, 24JAN96, 9JUL97, 23JUL19, 14JUL21); 3D (31m—33.73320N, 118.40050W—23JUL19, 14JUL21); 7D (31m—33.71270N, 118.34350W—13JUL21) & 8D (31m—33.70700N, 118.32980W—15JUL20)

Habitat:

Glycera sp B has been routinely encountered at LACSD “D”-stations. These stations are at a depth of approximately 30m that contain a high amount of gravel and larger sand particles. This species has also been encountered at shallow shelf depths in gravelly stations from the Channel Islands during Bight surveys. K. Barwick (OCSB) also reported this species as *Glycera* sp LA1 in B’18 from a Channel Island Station (B18-10391—82m—15JUL18). *Glycera* sp B has been found to co-occur with *Glycera nana* and *Glycera oxycephala* in LACSD stations.

References:

- 1) **Hartman, O.** 1944. Polychaetous Annelids from California. Including the Descriptions of Two New Genera and Nine New Species. *Allan Hancock Pacific Expeditions*, 10(2&3): 239-388.
- 2) **Hartman, O.** 1950. Goniadidae, Glyceridae and Nephtyidae. *Allan Hancock Pacific Expeditions*, 15(1): 1-180.
- 3) **Hartman, O.** 1968. *Atlas of the Errantiate Polychaetous Annelids from California*. Los Angeles, CA, University of California, Allan Hancock Foundation.
- 4) **Hilbig, B.** 1994. Family Glyceridae Grube, 1850. pages 197-214. IN: Blake, James A. and Hilbig, Brigitte. *Taxonomic Atlas of the Benthic Fauna of the Santa Maria Basin and Western Santa Barbara Channel. 4 - The Annelida Part 1. Oligochaeta and Polychaeta: Phyllodocida (Phyllodocidae to Paracalydoniidae)*. Santa Barbara Museum of Natural History.
- 5) **Johnson, H. P.** 1901. The Polychaeta of the Puget Sound Region. *Proceedings of the Boston Society of Natural History*, 29(18): 381-437; pls. 1-19.
- 6) **Martinez-Lara, R.** 2002. Annotated Tabular Guide to the common shelf-depth Glyceridae off Southern California. *SCAMIT Handout*.
- 7) **Moore, J. P.** 1911. The Polychaetous Annelids Dredged by the U. S. S. *Albatross* off the Coast of Southern California in 1904: 3. Euprosynidae to Goniadidae. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 63: 234-318; pls. 15-21.

Version History:

Version 1.0—Voucher sheet created (25OCT2021)

Version 2.0—Updated name to *Glycera* sp B and author to SCAMIT, 2022 §; Adjusted font size of images; Added footnote for images 5-9; Added Discussion section; Updated Similar Species, Material Examined, Habitat and References sections; Added ITI- & P-codes (25JUL2022)