



## Voucher Sheet

B. Haggin  
July, 2022

Species: *Glycera* sp B SCAMIT, 2022 §

P-Code —none assigned

Synonyms: *Glycera* sp LA1 Parker, 1999 §

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).

Image 1

0720-2D  
31m

1000 µm

Image 2

Prostomium

1000 µm

Image 3

Proboscideal  
Organs

long, thin

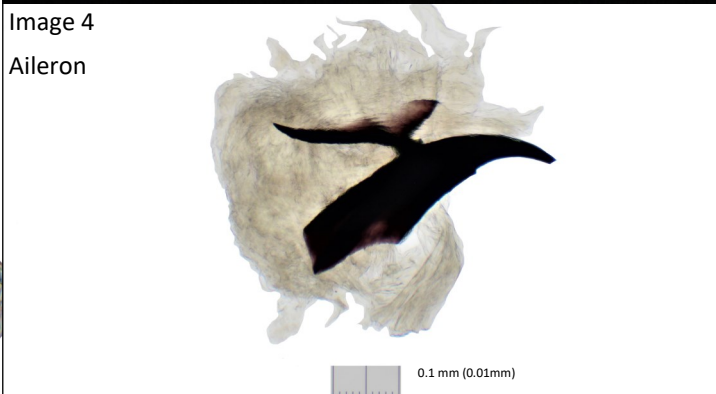
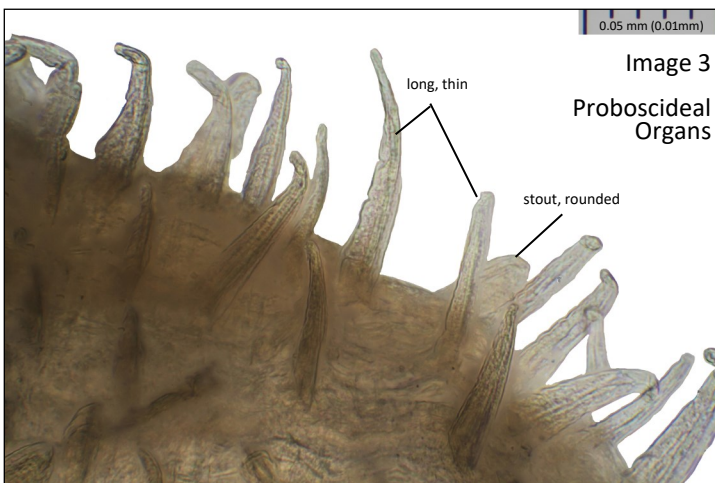
stout, rounded

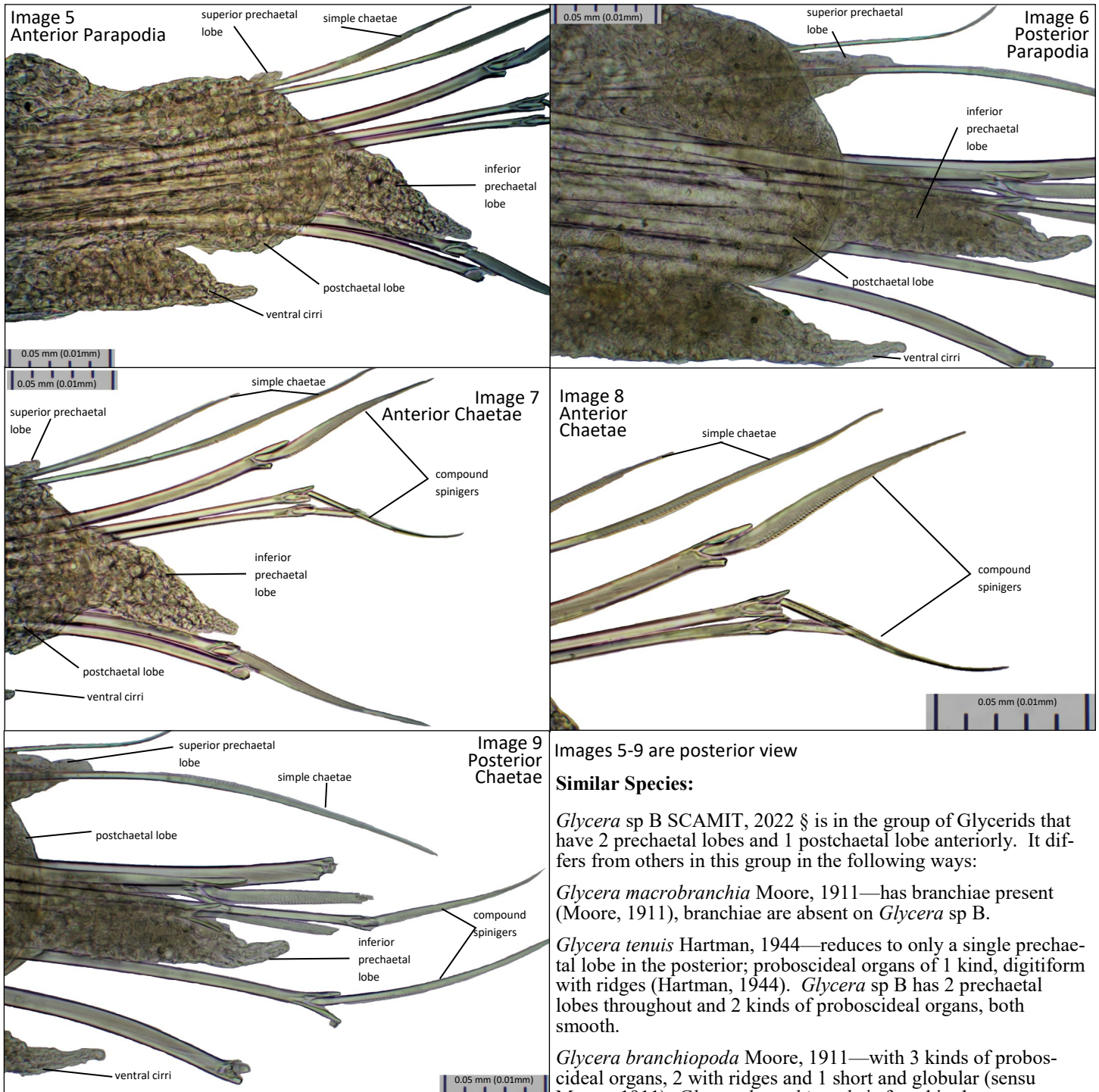
0.05 mm (0.01mm)

Image 4

Aileron

0.1 mm (0.01mm)





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.





## *Glycera* sp B

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### 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)