



Key to the Family Orbiniidae of SCAMIT (Ed. 13) and Local Provisional Species

Modified from Key to the Family Orbiniidae of the Northeastern Pacific (Haggan, 2018) and MMS Atlas

Definitions

PCP - Postchaetal Process

IPB - Intersegmental Pigment Band

1a. One (1) achaetigerous segment anteriorly.	----- 2
1b. Two (2) achaetigerous segments anteriorly; notopodial postchaetal lobe elongate throughout; notopodial furcate chaetae absent in 1st 9 chaetigers, then 2 furcate chaetae.	<i>Protoariciella</i> sp A Williams, 1976 §
2a. (1a) Prostomium rounded or truncate.	Genus <i>Naineris</i> - 3
2b. Prostomium pointed or conical.	----- 12
3a. (2a) Thoracic neurochaetae with capillaries only. Uncini & subuluncini absent.	----- 4
3b. Thoracic neurochaetae with capillaries and uncini present.	----- 5
4a. (2b) Neuropodial lobes with > 1 postchaetal process, subpodial lobes absent.	<i>Naineris</i> sp LA1 Haggan, 2018 §
4b. Thoracic neuropodial lobes with only a single postchaetal process present in the superior position, without a 2nd PCP or subpodial lobes in either the thorax or the abdomen.	<i>Naineris</i> sp A Phillips, 1998 §
5a. (3b) Prostomium rounded.	----- 6
5b. Prostomium truncate.	----- 8
6a. (5a) Branchiae present from chaetiger 5 or later.	----- 7
6b. Branchiae present from chaetiger 4.	<i>Naineris quadricuspida</i> (Fabricius, 1780)
7a. (6a) Branchiae present from chaetiger 5.	<i>Naineris</i> sp TP1 Phillips, 2014 §
7b. Branchiae present from chaetigers 7 - 15.	<i>Naineris dendritica</i> (Kinberg, 1867)
8a. (5b) Branchiae from chaetiger 5 or later.	----- 9
8b. Branchiae from chaetiger 4.	<i>Naineris</i> sp B Phillips, 1999 §
9a. (6b) Thoracic neuropodia with 1 postchaetal process.	----- 10
9b. Thoracic neuropodia with > 1 postchaetal process.	----- 11

10a. (9a) Branchiae from chaetiger 6. Thorax with 30 chaetigers.	<i>Naineris</i> sp DC1 Phillips, 2014 §
10b. Branchiae from chaetiger 7. Thorax with 17 chaetigers.	<i>Naineris</i> cf <i>grubei</i> (Gravier, 1908)
11a. (10a) Thoracic neuropodia with up to 2 PCP. Abdominal neuropodia without subpodial lobes.	<i>Naineris uncinata</i> Hartman, 1957
11b. Thoracic neuropodia with up to 4 PCP. Abdominal neuropodia with up to 2 subpodial lobes.	<i>Naineris</i> sp HYP2 Phillips, 2000 §
12a. (2b) Anterior thoracic neurochaetae with capillaries only. (check on chaetigers 3-6)	Genus <i>Leitoscoloplos</i> - 13
12b. Anterior thoracic neurochaetae include capillaries, ribbed uncini and/or modified spines.	----- 18
13a. (12a) Interramal cirri absent in posterior thorax and anterior abdomen.	----- 14
13b. Interramal cirri present in posterior thorax and anterior abdomen; Neuropodial lobes with up to 5 subpodial lobes in posterior thorax and anterior abdomen. Stomach papillae absent.	<i>Leitoscoloplos panamensis</i> (Monro, 1933)
14a. (13a) Thoracic neuropodia with 1 PCP in posterior thorax.	----- 15
14b. Thoracic neuropodia with > 1 PCP in posterior thorax.	----- 17
15a. (14a) Ventral thorax with an intersegmental pigment band present.	----- 16
15b. Ventral thorax without an intersegmental pigment band on ventral thorax; abdominal notopodial lobes slender, digitate to lanceolate; abdominal neuropodial lobes bilobed, lobes rounded.	<i>Leitoscoloplos</i> sp A (Williams, 1976 §)
16a. (14b) Ventral thorax with an IPB present as a band from chaetigers 3 - 4. From stations < 200m.	<i>Leitoscoloplos pugettensis</i> (Pettibone, 1957)
16b. Ventral thorax with an IPB present as a cluster from chaetiger 3 and a band from chaetiger 7. From stations > 150m.	<i>Leitoscoloplos</i> sp LA3 Haggin, 2017 §
17a. (14b) Ventral thorax without an IPB. Thoracic neuropodial PCP not bifurcate.	<i>Leitoscoloplos</i> sp LA1 Haggin, 2017 §
17b. Ventral thorax with an IPB present as a band from chaetiger 3. Thoracic neuropodial PCP sometimes bifurcate.	<i>Leitoscoloplos</i> sp LA2 Haggin, 2017 §
18a. (12b) Prostomium triangular.	----- 19
18b. Prostomium conical.	----- 20
19a. (18a) Thoracic parapodia with spines modified as brush-tipped chaetae in anterior thorax (1st 3 chaetigers); Branchiae from chaetigers 8 - 10. Branchiae small, slender & tapering becoming simple & strap-like. Branchiae present thruout abdomen, a dorsal ridge is present between branchiae posteriorly.	<i>Califia calida</i> Hartman, 1957
19b. Thoracic parapodia with spines modified as a single bifid falciger with a lateral tooth.	<i>Questa caudicirra</i> Hartman, 1966

20a. (18b) Posterior thoracic neuropodia with modified thick, protruding hastate (spear-like) spines and large basal glands.	Genus <i>Phylo</i> - 21
20b. Posterior thoracic neuropodia without modified spines.	----- 22
21a. (20a) Ventral fringe of papillae present in posterior thorax and anterior abdomen; interramal cirri present in abdominal chaetigers.	<i>Phylo felix</i> Kinberg, 1866
21b. Ventral fringe of papillae absent in posterior thorax and anterior abdomen.	<i>Phylo nudus</i> (Moore, 1911)
22a. (20b) Ventral fringe of papillae absent in posterior thorax and anterior abdomen.	Genus <i>Scoloplos</i> - 23
22b. Ventral fringe of papillae present in posterior thorax and anterior abdomen; Branchiae first present from chaetigers 15 - 20.	<i>Orbinia johnsoni</i> (Moore, 1909)
23a. (22a) Subpodial lobes absent in posterior thorax and anterior abdomen.	----- 24
23b. Subpodial lobes present in posterior thorax and anterior abdomen.	<i>Scoloplos armiger</i> Cmplx - 27
24a. (23a) Thoracic neurochaetae with spines curved or nearly straight with rounded tips and serrated. Hoods present or absent. Spines in 1 row or in 3 rows.	----- 25
24b. Thoracic neurochaetae with spines nearly straight with slightly falcate pointed tips, serrated and hooded. Spines single, in 1 row or in 3 rows.	<i>Scoloplos</i> sp SF1 Norris, 2007 §
25a. (24a) Branchiae triangular to strap-like.	----- 26
25b. Branchiae simple inconspicuous filaments.	<i>Scoloplos acmeceps profundus</i> Hartman, 1960
26a. (25a) Spines in 3 - 4 rows between an anterior and posterior row of capillary chaetae. Thoracic neuropodia with a single PSP.	<i>Scoloplos acmeceps</i> Chamberlin, 1919
26b. Spines in 1 "J"-shaped row in an inferior-posterior position in the fascicle. Thoracic neuropodia with up to 2 PSP.	<i>Scoloplos</i> sp LA1 Haggin, 2017 §
27a. (23b) Thoracic neuropodial spines many, in 1 or 3 rows, present in most thoracic chaetigers.	----- 28
27b. Thoracic neuropodia with a single spine (often difficult to see) in inferior position surrounded by capillaries.	<i>Scoloplos</i> sp LA4 Haggin, 2018 §
28a. (27a) Spines in 3 rows between an anterior and posterior row of capillary chaetae.	<i>Scoloplos</i> sp LA2 Haggin, 2017 §
28b. Spines in 1 "J"-shaped row in an inferior-posterior position in the fascicle.	<i>Scoloplos</i> sp LA3 Haggin, 2017 §

Other Orbiniidae reported from the region but not by SCAMIT

Orbiniella hobsonae Blake & Hilbig, 1990 (Juan de Fuca Ridge, NE Pacific)
Obiniella nuda Hobson, 1974 (Washington, USA)
Protoariciella oligobranchia Hobson, 1976 (British Columbia, Canada)
Califia mexicana Fauchald, 1972 (Gulf of California, Mexico)
Leitoscoloplos kerguelensis (McIntosh, 1885) (Kerguelen Island, Antarctica)
Leitoscoloplos mexicanus (Fauchald, 1972) (Isla las Animas, Western Mexico)
Leitoscoloplos multipapillatus Hernández-Alcántara & Solís-Weiss, 2014 (Gulf of California, Mexico)
Leitoscoloplos pachybranchiatus Blake & Hilbig, 1990 (Juan de Fuca Ridge, NE Pacific)
Leodamas cirratus (Ehlers, 1897) (Falkland Islands, Antarctica)
Leodamas mazatlanensis Fauchald, 1972 (Gulf of California, Mexico)
Leodamas rubra (Webster, 1879) (Virginia, USA)
Leodamas treadwelli Eisig, 1914 (Western Mexico)
Naineris nannobranchia (Chamberlin, 1919) (Mendocino, CA)
Naineris setosa (Verrill, 1900) (Bermuda)
Orbinia papillosa Ehlers, 1907 (New Zealand)
Orbinia riseri (Pettibone, 1957) (Massachusetts, USA)
Orbinia sertulata (Savigny, 1822) (France)
Phylo ornatus (Verrill, 1873)
Scoloplos armiger alaskensis (Hartman, 1948) (Alaska)
Scoloplos capensis (Day, 1961) (South Africa)
Scoloplos normalis (Day, 1977) (New South Wales, Australia)
Scoloplos texana Maciolek & Holland, 1978 (Gulf of Mexico)

References

- 1 **Bellan, G.** 2001. Polychaeta, in: Costello, M.J. et al. (Ed.) (2001). European register of marine species: a check-list of the marine species in Europe and a bibliography of guides to their identification. *Collection Patrimoines Naturels* 50: 214-231.
- 2 **Blake, J. A.** 1980. The larval development of Polychaeta from the northern California Coast. IV. *Leitoscoloplos pugettensis* and *Scoloplos acmeceps* (Family Orbiniidae). *Ophelia* 19(1): 1-18.
- 3 **Blake, J. A.** 1985. Polychaeta from the Vicinity of Deep-Sea Geothermal Vents in the eastern Pacific I: Euphrosinidae, Phyllodocidae, Hesionidae, Nereididae, Glyceridae, Dorvilleidae, Orbiniidae, and Maldanidae. *Bulletin of the Biological Society of Washington* 6: 67-101.
- 4 **Blake, J. A.** 1996. Family Orbiniidae Hartman, 1942. *Taxonomic Atlas of the Benthic Fauna of the Santa Maria Basin and Western Santa Barbara Channel. Volume 6- The Annelida Part 3. Polychaeta: Orbiniidae to Cossuridae.* 377pp: 1-26.
- 5 **Blake, J. A.** 2000. A new genus and species of polychaete worm (Family Orbiniidae) from methane seeps in the Gulf of Mexico, with a review of the systematics and phylogenetic interrelationships of the genera of Orbiniidae. *Cahiers de Biologie Marine* 41: 435-449.
- 6 **Blake, J. A.** 2017. Polychaeta Orbiniidae from Antarctica, the Southern Ocean, the Abyssal Pacific Ocean, and off South America. *Zootaxa* 4218(1): 1-145.
- 7 **Blake, J. A. and Giangrande, A.** 2011. *Naineris setosa* (Verrill) (Polychaeta, Orbiniidae), an American subtropical-tropical polychaete collected from an aquaculture facility in Brindisi (Adriatic Sea, Italy): A possible alien species. *Italian Journal of Zoology* 78: 20-26.
- 8 **Blake, J. A. and Hilbig, B.** 1990. Polychaeta from the Vicinity of Deep-Sea Hydrothermal Vents in the Eastern Pacific. II. New Species and Records from the Juan de Fuca and Explorer Systems. *Pacific Science* 44(3): 219-253.

- 9 **Bleidorn, C.** 2005. Phylogenetic relationships and evolution of Orbiniidae (Annelida, Polychaeta) based on molecular data. *Zoological Journal of the Linnean Society* 144(1): 59-73.
- 10 **Bleidorn, C., Hill, N., Erséus, C. & Tiedemann, R.** 2009. On the role of character loss in orbiniid phylogeny (Annelida): Molecules vs. morphology. *Molecular Phylogenetics and Evolution* 52(1): 57-69.
- 11 **Bleidorn, C., Kruse, I., Albrecht, S. and Bartolomaeus, T.** 2006. Mitochondrial sequence data expose the putative cosmopolitan polychaete *Scoloplos armiger* (Annelida, Orbiniidae) as a species complex. *Bmc Evolutionary Biology* 6: 47.
- 12 **Bleidorn, C., Vogt, L. & Bartolomaeus, T.** 2003. A contribution to sedentary polychaete phylogeny using 18S rRNA sequence data. *Journal of Zoological Systematics and Evolutionary Research* 41(3): 186-195.
- 13 **Bromberg, S., Nonato, E. F., Corbisier, T. N. and Petti, M. A. V.** 2000. Polychaete distribution in the near-shore zone of Martel Inlet, Admiralty Bay (King George Island, Antarctica). *Bulletin of Marine Science* 67(1): 175-188.
- 14 **Carr, C. M., Hardy, S. M., Brown, T. M., Macdonald, T. A. and Hebert, P. D. N.** 2011. A Tri-Oceanic Perspective: DNA Barcoding Reveals Geographic Structure and Cryptic Diversity in Canadian Polychaetes. *PLoS ONE* 6(7): e22232.
- 15 **Chamberlin, R. V.** 1919a. New Polychaetous Annelids From Laguna Beach, California. *Pomona College Journal of Entomology and Zoology* 11(1): 1-22.
- 16 **Chamberlin, R. V.** 1919b. Pacific Coast Polychaeta Collected by Alexander Agassiz. *Bulletin of the Museum of Comparative Zoology* 63(6): 250-270.
- 17 **Day, J. H.** 1973. New Polychaete from Beaufort, with a Key to all Species Recorded from North Carolina. *NOAA Technical Reports NMFS CIRC* 375: 1-140.
- 18 **Day, J. H.** 1977. A Review of the Australian and New Zealand Orbiniidae (Annelida: Polychaeta). *Essays on Polychaetous Annelids- In Memory of Dr. Olga Hartman.* 217-246.
- 19 **de León-González, J. A. and Rodriguez, J. A.** 1996. Orbiniidae (Polychaeta) from soft bottom of the western coast of Baja California Peninsula, Mexico. *Bulletin of Marine Science* 59(1): 169-174.
- 20 **de Souza Barbosa, L., Soares-Gomes, A. and Paiva, P. C.** 2010. Distribution of polychaetes in the shallow, sublittoral zone of Admiralty Bay, King George Island, Antarctica in the early and late austral summer. *Natural Science* 2(10): 1155-1163.
- 21 **Dean, H. K. and Blake, J. A.** 2015. The Orbiniidae (Annelida: Polychaeta) of Pacific Costa Rica. *Zootaxa* 3956(2): 183-198.
- 22 **Díaz-Castañeda, V., de León-González, J. A. and Solana-Arellano, E.** 2014. Biodiversity of polychaete assemblages in a highly productive lagoon located in Baja California Sur, México. *Proceedings of the Biological Society of Washington* 127(2): 406-422.
- 23 **Eckelbarger, K. J. & Young, C. M.** 2002. Spermiogenesis and modified sperm morphology in the "seepworm" *Methanoaricia dendrobranchiata* (Polychaeta : Orbiniidae) from a methane seep environment in the Gulf of Mexico: Implications for fertilization biology. *Biological Bulletin* 203(2): 134-143.
- 24 **Ehlers, E.** 1907. Neuseeländische Anneliden. II. *Abhandlungen der Königlichen Gesellschaft der Wissenschaften zu Göttingen. Mathematisch-Physikalische Klasse. Neue Folge* 5(4): 3-31.
- 25 **Fauchald, K.** 1972. Benthic Polychaetous Annelids from Deep Water Off Western Mexico and Adjacent Areas in the Eastern Pacific Ocean. *Allan Hancock Monographs in Marine Biology* 7: 1-575.
- 26 **Fauchald, K.** 1977. The Polychaetous Worms. Definitions and Keys to the Orders, Families and Genera. *Natural History Museum of Los Angeles County: Los Angeles, CA (USA), Science Series* 28: 1-188.
- 27 **Fauchald, K. & Rouse, G.** 1997. Polychaete Systematics: Past and Present. *Zoologica Scripta* 26(2): 71-138.

- 28 **Francoeur, A. A. and Dorgan, K. M.** 2014. Burrowing Behavior in Mud and Sand of
Morphologically Divergent Polychaete Species (Annelida: Orbiniidae). *Biological Bulletin* 226(2):
131-145.
- 29 **Giere, A., Ebbe, B. and Erseus, C.** 2008. *Questa* (Annelida, Polychaeta, Orbiniidae) from Pacific
regions - new species and reassessment of the genus *Periqueta*. *Organisms Diversity &
Evolution* 7(4): 304-319.
- 30 **Gillet, P.** 1999. A new species of *Orbiniella* (Orbiniidae : Polychaeta) from Marion Island, Indian
Ocean. *Proceedings of the Biological Society of Washington* 112(3): 592-597.
- 31 **Granados-Barba, A. and Solis-Weiss, V.** 1997. Polychaetous annelids of the oil platform areas
from the southeastern Gulf of Mexico: Orbiniidae and Cossuridae. *Bulletin of Marine Science*
61(3): 549-557.
- 32 **Harris, L. H.** 1983. Key to West Coast Orbiniidae. *SCAMIT Newsletter* 2(6): 1-31.
<https://www.scamit.org/newsletters/1983-09.pdf>
- 33 **Hartman, O.** 1948. The Marine Annelids Erected by Kinberg with Notes on Some Other Types in
the Swedish State Museum. *Arkiv For Zoologi* 42(1): 1-137.
- 34 **Hartman, O.** 1957. Orbiniidae, Apistobranchidae, Paraonidae and Longosomidae. *Allan
Hancock Pacific Expeditions* 15(3): 211-392.
- 35 **Hartman, O.** 1960. Systematic account of some marine invertebrate animals from the deep
basins off southern California. *Allan Hancock Pacific Expeditions*. 22(2): 69-216.
- 36 **Hartman, O.** 1961. Polychaetous Annelids from California. *Allan Hancock Pacific Expeditions*
25: 1-224.
- 37 **Hartman, O.** 1963. Submarine Canyons of Southern California. Part 3. Systematics:
Polychaetes. *Allan Hancock Pacific Expeditions* 27(3): 1-93.
- 38 **Hartman, O.** 1967. Polychaetous Annelids Collected by the USNS Eltanin and Staten Island
Cruises, Chiefly from Antarctic Seas. *Allan Hancock Monographs in Marine Biology* 2: 1-387.
- 39 **Hartman, O.** 1969. *Atlas of the Sedentariate Polychaetous Annelids from California*. Allan
Hancock Foundation, University of Southern California. Los Angeles. 1-812.
- 40 **Hartman, O.** 1971. Abyssal Polychaetous Annelids from the Mozambique Basin off Southeast
Africa, with a Compendium of Abyssal Polychaetous Annelids from World-Wide Areas. *Journal of
the Fisheries Research Board of Canada* 28: 1407-1428.
- 41 **Hartman, O. and Reish, D. J.** 1950. The Marine annelids of Oregon. *Oregon State Monographs*
6: 1-64.
- 42 **Hernández-Alcántara, P. and Solís-Weiss, V.** 1999. Systematics and Distribution of the
Polychaetes (Annelida: Polychaeta) from the Sublittoral Zone in the Gulf of California.
Oceanides 13(2): 25-38.
- 43 **Hernández-Alcántara, P. and Solís-Weiss, V.** 2011. Distribution of the Polychaete assemblages
on the continental shelf of the Northern Gulf of California, Eastern Pacific. *Italian Journal of
Zoology* 78(SI): 280-289.
- 44 **Hernández-Alcántara, P. and Solís-Weiss, V.** 2013. Biodiversity and distribution of the Scolecida
(Annelida: Polychaeta) on the continental shelf of the Gulf of California, Mexican Pacific.
Cahiers De Biologie Marine 54(1): 49-61.
- 45 **Hernández-Alcántara, P. and Solís-Weiss, V.** 2014. Anatomical and morphometric analysis of a
new species of *Leitoscoloplos* (Annelida: Orbiniidae) with numerous stomach papillae, from the
Gulf of California, Eastern Pacific. *Contributions to Zoology* 83(2): 133-150.
- 46 **Hobson, K. D.** 1970. *Novaquesta trifurcata*, a New Genus and Species of the Family Questidae
(Annelida, Polychaeta) from Cape Cod Bay, Massachusetts. *Proceedings of the Biological Society
of Washington* 83(17): 191-194.
- 47 **Hobson, K. D.** 1976. *Protoariciella oligobranchia* new species (Orbiniidae) and six new records of
Orbiniidae, Questidae, and Paraonidae (Annelida, Polychaeta) from British Columbia. *Canadian
Journal of Zoology* 54: 591-596.

- 48 **Hoffmann, S. & Hausen, H.** 2007. Chaetal arrangement in Orbiniidae (Annelida, Polychaeta) and its significance for systematics. *Zoomorphology* 126(4): 215-227.
- 49 **Kelaher, B. P. and Rouse, G. W.** 2003. The role of colonization in determining spatial patterns of *Proscoloplos bondi* sp nov (Orbiniidae: Annelida) in coralline algal turf. *Marine Biology* 143(5): 909-917.
- 50 **Kruse, I. & Reise, K.** 2003. Reproductive isolation between intertidal and subtidal *Scoloplos armiger* (Polychaeta, Orbiniidae) indicates sibling species in the North Sea. *Marine Biology* 143(3): 511-517.
- 51 **Kruse, I., Reusch, T. B. H. & Schneider, M. V.** 2003. Sibling species or poecilogony in the polychaete *Scoloplos armiger*? *Marine Biology* 142(5): 937-947.
- 52 **Kruse, I., Strasser, M. & Thiermann, F.** 2004. The role of ecological divergence in speciation between intertidal and subtidal *Scoloplos armiger* (Polychaeta, Orbiniidae). *Journal of Sea Research* 51(1): 53-62.
- 53 **López, E., Cladera, P. and San Martín, G.** 2003. Two new species of the genus *Leodamas* (Orbiniidae: Scolecida: Polychaeta) from the Pacific coast of Panama. *Journal of the Marine Biological Association of the United Kingdom* 83(2): 367-374.
- 54 **López, E., Cladera, P. and San Martín, G.** 2006. Orbiniidae polychaetes (Polychaeta : Scolecida) from Coiba Island, eastern Pacific of Panama, with description of a new species. *Revista De Biología Tropical* 54(4): 1307-1318.
- 55 **Luttikhuijsen, P. C., Bol, A., Cardoso, J. F. M. F. & Dekker, R.** 2011. Overlapping distributions of cryptic *Scoloplos* cf. *armiger* species in the western Wadden Sea. *Journal of Sea Research* 66(3): 231-237.
- 56 **Maciolek, N. J. & Holland, J. S.** 1978. *Scoloplos texana*: A new orbiniid polychaete from south Texas, with notes on the related species *Scoloplos treadwelli* Eisig. *Contributions in Marine Science* 21: 163-169.
- 57 **Mackie, A. S. Y.** 1987. A Review of Species Currently Assigned to the Genus *Leitoscoloplos* Day, 1977 (Polychaeta: Orbiniidae), with Descriptions of Species Newly Referred to *Scoloplos* Blainville, 1828. *Sarsia* 72: 1-28.
- 58 **Moore, J. P.** 1909. Polychaetous annelids from Monterey Bay and San Diego, California. *Proceedings of the Academy of Natural Sciences of Philadelphia* 61: 235-295, plates VII-IX.
- 59 **Parapar, J., Moreira, J. and Helgason, G. V.** 2015. First record of genus *Orbiniella* Day, 1954 (Polychaeta: Orbiniidae) in North Atlantic Ocean with the description of a new species. *Zootaxa* 4006(2): 330-346.
- 60 **Pettibone, M. H.** 1957. North American Genera of the Family Orbiniidae (Annelida: Polychaeta) with Descriptions of New Species. *Journal of the Washington Academy of Sciences* 47(5): 159-167.
- 61 **Samper-Villarreal, J., Bourg, A., Sibaja-Cordero, J. A. and Cortés, J.** 2014. Presence of a *Halophila baillonii* Asch. (Hydrocharitaceae) Seagrass Meadow and Associated Macrofauna on the Pacific Coast of Costa Rica. *Pacific Science* 68(3): 435-444.

Version History

1.0 Key Created - "Key to the Orbiniidae of the North-Eastern Pacific".	August, 2018 - BMH
2.0 Key updated - removed non-reported species, reduced key to only SCAMIT reported and local provisional species. Updated language and added definitions. Key Renamed to "Key to the Family Orbiniidae of SCAMIT (Ed. 13) and Local Provisional Species".	November, 2021 - BMH
2.1 Added Orbiniidae from region not Reported by SCAMIT. Added Naineris table.	November, 2021 - BMH

3.0 Added Leitoscoloplos and Scoloplos table. Removed DRAFT designation.

February, 2023 - BMH

3.1 Removed character tables from key and added to SCAMIT toolbox for improved visibility.

April, 2023 - BMH