

A Northern Range Extension of the Washington Combmussel, *Idas washingtonius* (Bernard, 1978)

Rick Harbo¹ and Graham Gillespie

¹ Research Associate (Nanaimo), Invertebrate Zoology, Royal BC Museum, B.C.

rmharbo1@gmail.com

Mussels are found on a variety of surfaces from the intertidal zone to great depths in the oceans. An unusual find are deep-sea mussels collected by trawls, often found in large numbers on sunken wood and on whale bones (Bennett et al. 1994). Small mussels, *Idas washingtonius* (Bernard, 1978), to 9 mm shell length, were found on whale bones trawled from depths of 560 to 660 m, July 27, 1999, off the west coast of Vancouver Island, B.C. (Fig. 1, 2). This was a northern range extension and samples were deposited at the Royal BC Museum (RBCM 002-00007-001).

Classification of this mussel can be found on MolluscaBase (2020). The shell is subquadrate, having a polished periostracum with faint, irregular comarginal lines and a few radial lines on the anterior end (Fig. 2).

The specimen of *I. washingtonius* (Bernard, 1978), referred to by Coan et al. 2000, was the holotype (LACM 1881) taken from 2189 m, W of Cape Flattery, Washington (48.633, -126.9683). It was collected by Oregon State University (OSU BMT-9), in September of 1971.

Acknowledgements

Leslie Barton, Fisheries and Oceans Canada (DFO) kindly provided the image of the whale bones. A thank you to Heidi Gartner, Collection Manager, Invertebrates, Royal BC Museum, Bill Merilees and Lindsey Groves, Collection Manager, Malacology, Natural History Museum of Los Angeles County, California. Thanks to Heather Harbo for editing and proofing the text.



Fig. 1

Fig. 1. Whalebone, with mussels attached, trawled from depths of 560 to 660 m, off Clayoquot sound, west coast of Vancouver Island, B.C. July 27, 1999. Photo provided courtesy of Fisheries and Oceans Canada



Fig. 2

A

B

Fig. 2 A-B. Washington combmussel, *Idas washingtonius* (Bernard, 1978). Sample from off the west coast of Vancouver Island, B.C. at 560 to 660 m depth, July 27, 1999.

Fig. 2A W. Merilees collection. Image R. Harbo

Fig. 2B RBCM 002-00007-001. Image H. Gartner

References

- Bernard F.R. 1978.** New bivalve Mollusca, subclass Pteriomorpha, from the Northeastern Pacific. *Venus*. 37: 61-75.
https://www.jstage.jst.go.jp/article/venusjim/37/2/37_KJ00004342587/_pdf/-char/en
- Bennett, B.A., C.R. Smith, B. Glaser and H.L. Maybaum. 1994.** Faunal community structure of a chemoautotrophic assemblage on whale bones in the deep northeast Pacific Ocean. *Marine Ecology Progress Series* 108 (3):205-223 (19 May). <https://www.int-res.com/articles/meps/108/m108p205.pdf>
- Coan, E.V., P. Valentich Scott, & F.R. Bernard. 2000.** *Bivalve Seashells of Western North America: Marine Bivalve Mollusks from Arctic Alaska to Baja California*. Santa Barbara Museum of Natural History Monographs 2. 764 pp.
- Duperron, S. 2010.** "The diversity of deep-sea mussels and their bacterial symbioses" in *The Vent and Seep Biota*, ed. S. Biota Kiel (Basingstoke, UK: Springer):137–167.
- Huber, M. (2010).** *Compendium of bivalves. A full-color guide to 3,300 of the world's marine bivalves. A status on Bivalvia after 250 years of research*. Hackenheim: ConchBooks. 901 pp.
- MolluscaBase eds. (2020).** MolluscaBase. *Idas washingtonius*. Accessed through: World Register of Marine Species at: <http://www.marinespecies.org/aphia.php?p=taxdetails&id=506042> on 2020-11-12