

SPECIMENS OF *MUNIDOPSIS* (DECAPODA, ANOMURA, GALATHEIDAE)
COLLECTED BY THE R/V “REVELLE” (MAY 2004) IN THE GULF OF
CALIFORNIA, MEXICO

BY

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ABSTRACT

Three species of *Munidopsis* (Galatheidae) (*Munidopsis nitida*, *M. hystrix*, and *M. scabra*) obtained by the R/V “Revelle” in the Gulf of California, Mexico, were identified from material held in the Invertebrate Collection at Scripps Institute of Oceanography, La Jolla, California. The specimen of *M. scabra* represents a new northern distribution limit within the Gulf of California.

RÉSUMÉ

Trois espèces de *Munidopsis* (Galatheidae) (*Munidopsis nitida*, *M. hystrix* et *M. scabra*) récoltés par le R/V “Revelle” dans le golfe de Californie, Mexique, ont été identifiées dans la collection d’invertébrés de Scripps Institution, La Jolla, Californie. Le spécimen de *M. scabra* représente une nouvelle limite nord pour sa répartition dans le golfe de Californie.

INTRODUCTION AND MATERIAL

A small collection of *Munidopsis* (Galatheidae) dredged during a deep-water survey (24 April to 14 May 2004) in the Gulf of California, Mexico, by the R/V “Revelle” of the Scripps Institution of Oceanography (SIO), University of California, San Diego (fig. 1), and held in the Invertebrates Collection at SIO, La Jolla, California, was examined. It contains three species (*Munidopsis nitida* (A. Milne-Edwards, 1880), *M. hystrix* Faxon, 1893, and *M. scabra* Faxon, 1893) previously known from the east Pacific. This material is reported here. Carapace length (CL) without rostrum is provided for each specimen.

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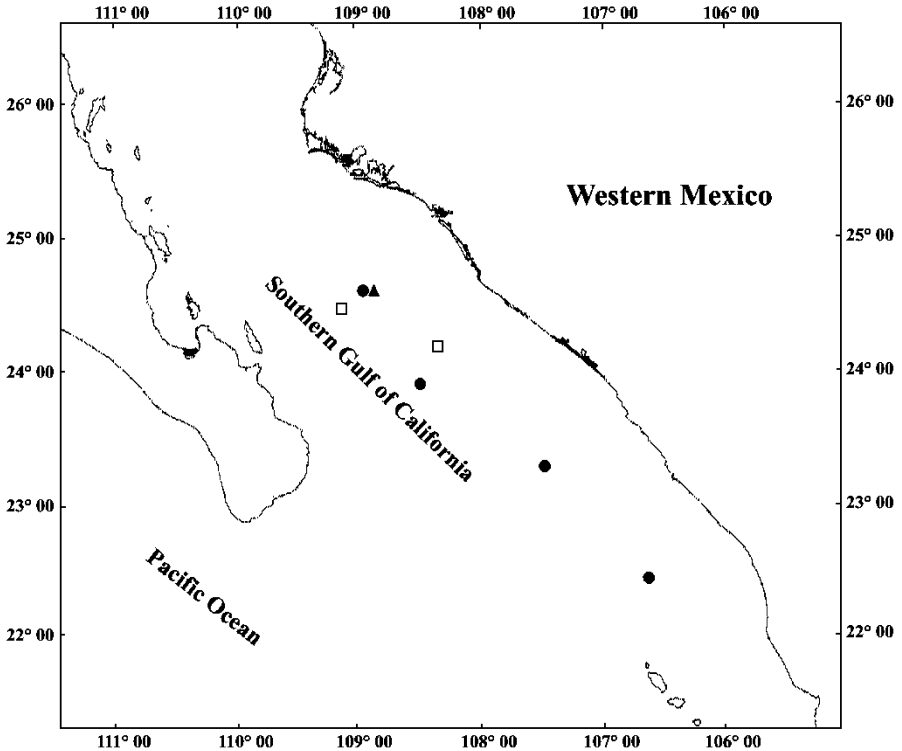


Fig. 1. Localities in the southern Gulf of California, Mexico, where the material was collected: □, *Munidopsis nitida* (A. Milne-Edwards, 1880); ●, *M. hystrix* Faxon, 1893; and, ▲, *M. scabra* Faxon, 1893. Southernmost record for *M. nitida* taken from Hendrickx (2001).

TAXONOMIC ACCOUNT

Munidopsis hystrix Faxon, 1893

Material examined. — Two males (CL 12.6, 15.7 mm), 09 May 2004, shallow Ridge of NE Pescadero Basin, Gulf of California, Mexico (24°37.620'N 108°55.751'W), 770-1138 m, rock dredge (coll. Cambria Colt) (SIO-C 10796) (DANA 08 collection, acc. number BI 2003-034). One male (CL 15.3 mm) and one female (CL 9.7 mm), 06 May 2004, NW of Tamayo Dome, Gulf of California, Mexico (23°17.719'N 107°28.999'W), 698-964 m (coll. Cambria Colt) (SIO C 10792). One male, damaged (CL 12.5 mm), 05 May 2004, Mazatlán Rift, Gulf of California, Mexico (22°26.1823'N 106°37.7629'W), 573-855 m, rock dredge (coll. Cambria Colt) (SIO C 10791). One male (CL 15.4 mm), 07 May 2004, Gulf of California, Mexico (23°53.18'N 108°19.196'W), 436-486 m, rock dredge (coll. L. Ellett) (SIO C 10794).

Remarks. — Previously known from 552 to 1243 m, and now from 436-486 m.

Munidopsis nitida (A. Milne-Edwards, 1880) (fig. 2A)

Material examined. — One female (CL 16.6 mm), 08 May 2004, R/V “Revelle”, E. Rift Valley, Pescadero [Basin], Gulf of California, Mexico (24°29.2823'N 109°06.9898'W), 1481-1909 m, dredge (coll. Cambria Colt) (SIO C 10795).

Remarks. — Records for *M. ciliata* Wood-Mason, 1891 from the East Pacific, including the first record by Faxon (1895, off Mariato Point, off Cocos Island, and Gulf of Panama), were recently reviewed by Baba (2005), who suggested that all specimens from this region should be identified with *M. nitida*, a widely distributed species. Baba (2005: 154) provides an extensive comparison using material from different localities, and the material reported here corresponds to this species. The specimen collected by the R/V “Revelle” is very hairy (fig. 2A), a variation noted by Baba (2005) for the material of Panama cited by Faxon (1895) as *M. ciliata*. Ambler (1980) examined two of the specimens of Faxon (1893, 1895) and a series of specimens collected off Oregon, U.S.A, that she reported as *M. ciliata*; according to Baba (2005: 288), however, the Oregon material corresponds to *M. lignaria* Williams & Baba, 1990. Another record of *M. ciliata* for the East Pacific was provided, with some reserve, by Hendrickx (2001, 2003). This material was re-examined on the basis of Baba’s (2005) review, and it corresponds to a slightly hairy form of *M. nitida* (see fig. 1).

Munidopsis scabra Faxon, 1893 (fig. 2B)

Material examined. — One male (damaged) (CL ca 10.5 mm), 09 May 2004, shallow Ridge of NE Pescadero Basin, Gulf of California (24°37.620’N 108°55.751’W), 770-1138 m, rock dredge (coll. Cambria Colt) (ex SIO-C 10796, transferred to SIO-C 10968).

Remarks. — The specimen (fig. 2B) features most characteristics of the original description and figure provided by Faxon (1893, 1895), including the shape of the third maxilliped, the squamous armature of the carapace, the row of six gastric teeth, and the unarmed abdomen. The spinulation on the posterior margin, however, is reduced to some widely spaced spinules instead of a continuous, median row of spinules. The specimen lacks both chelipeds and is slightly iridescent on carapace and appendages. The present record increases the northern distribution limit of this species within the Gulf of California by about 3°20’ degrees latitude.

ACKNOWLEDGEMENTS

I thank Bill Newman (curator) and Larry Lovell (previously assistant curator) of the SIO invertebrates collection, for the loan of material, and Greg Rouse for providing the catalogue number of *Munidopsis scabra*. The map was composed by Alfredo Galaviz and the final edition was done by Mercedes Cordero.

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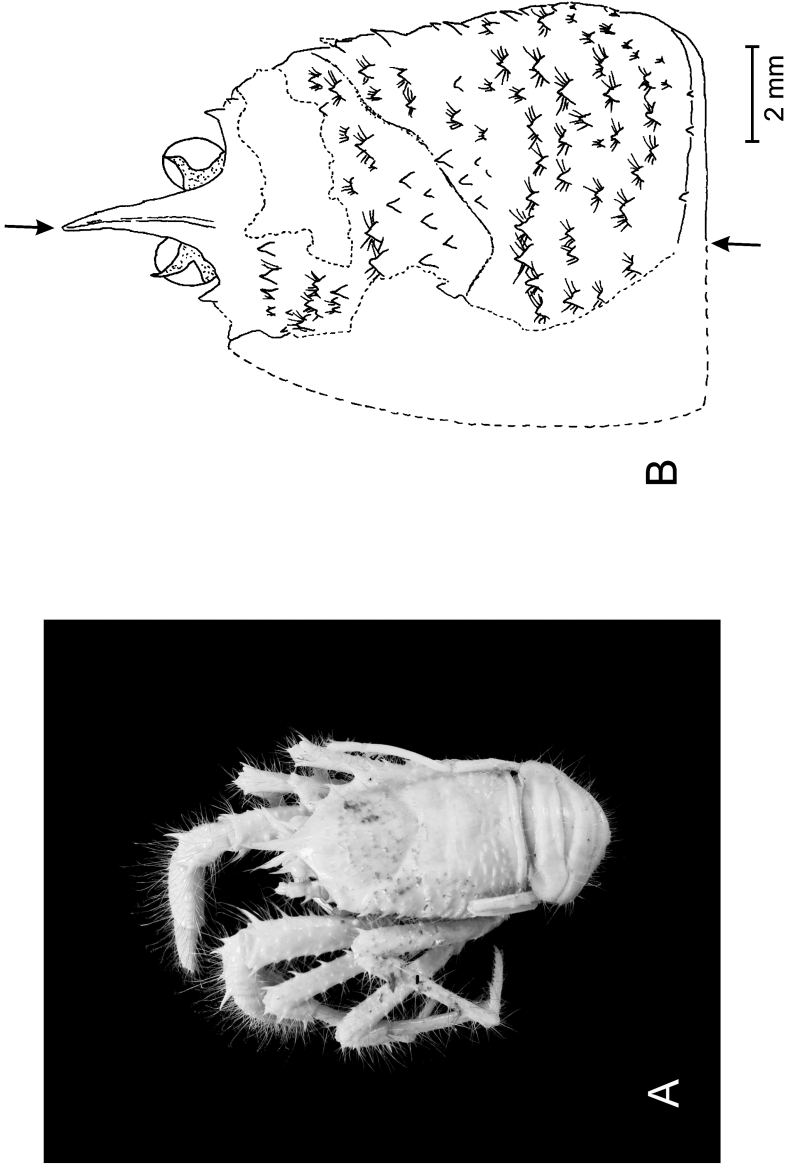


Fig. 2. Dorsal, views of: A, *Munidopsis nitida* (A. Milne-Edwards, 1880) (SIO-C 10795); and B, *Munidopsis scabra* Faxon, 1893 (SIO-C 10968), with arrows indicating axis of symmetry.

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