

VOUCHER SHEET

Species name: *Boreosignum* sp IS1

Date Examined: 5 April 2008

Group: Isopoda, Family Paramunnidae

Voucher By: Donald B. Cadien

Voucher Specimen(s): ISS Outer Coast Yr. 2, Station 406PINROC, subtidal rocky, replicate 1, 16 m, Sample Number 4511. 2 vouchers to MLML, 1 voucher to CDF & G

SYNONYMY: ?*Munnogonium wilsoni* Hooker 1985 identifications from California waters. *Munnogonium* (now *Boreosignum*) *wilsoni* is not a synonym, but the name has been incorrectly applied to California material which most probably belongs to the current species.

LITERATURE: **Just, Jean, and G. D. F. Wilson. 2007.** Revision of *Austrosignum* Hodgson and *Munnogonium* George & Strömberg (Paramunnidae) with descriptions of eight new genera and two new species, (Crustacea: Isopoda: Asellota). *Zootaxa*, no. 1515: 1-29.

Hooker, Alan. 1985. New species of Isopoda from the Florida Middlegrounds (Crustacea: Peracarida). *Proceedings of the Biological Society of Washington* 98(1): 255-80.

DIAGNOSTIC CHARACTERS:

1. Perionites 1-3 with postero-lateral setal tufts dorsally
2. Ventral margins of last three perionites bearing spines
3. A continuous setal row ventrally on the pleotelson denticulate margin
4. Pleotelsonic denticulations with embedded compound setae in cusps

RELATED SPECIES AND CHARACTER DIFFERENCES:

1. Most similar to *Boreosignum wilsoni*, from which it can be distinguished by 1-4 above, and much larger and more slender uropods
2. Differs from "*Paramuna*" *quadratifrons* in presence of eyes, rounded rather than subquadrate head, lack of serrations on the posterior margins of the pleonites, and lack of serrations on the post uropodal portion of the pleotelson
3. Differs from "*Paramunna*" sp A SCAMIT 1996 in having eyes, absence of the granular knobs on the cephalon, absence of the two dorsal pleotelsonic spines of that species, and pleotelson which is much broader proximally and less tapered distally.
4. Differs from *Munnogonium erratum*, *M. tillerae*, and *M. waldronense* in having well defined lateral denticulations on the pleotelsonic margin
5. Differs from *Pleurogonium californiense*, *P. rubicundum*, and *P. sp A* Wilson 1997 in having conspicuous eyes, in lacking spine-like projections on the coxae, and in having lateral denticulations on the pleotelsonic margin.

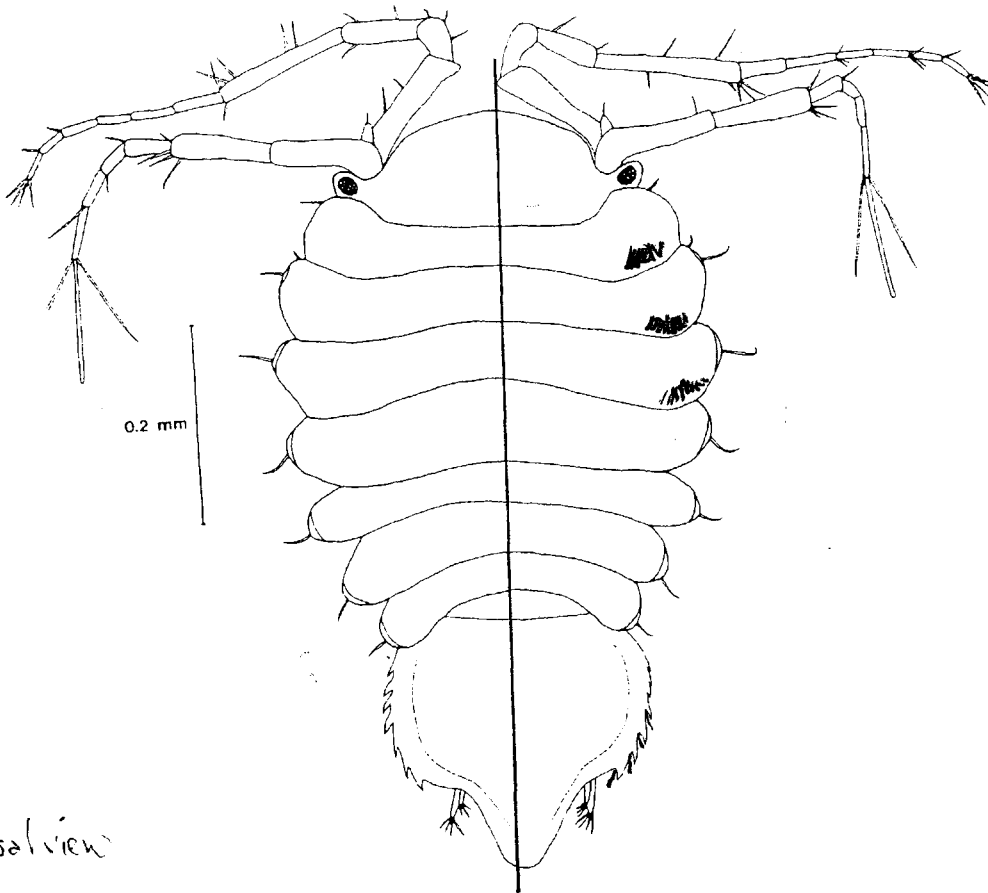
DEPTH RANGE: 9-16 m

DISTRIBUTION: Pt La Jolla to Pin Rock, Catalina Id. All samples from shallow sublittoral rock

scrapings.

Comments: The taxonomic identity of this genus has been modified since *Munnogonium wilsoni* was described by Hooker in 1985. That species was transferred to *Metamunna*, and then to the newly created genus *Boreosignum*, in successive revisionary efforts on the Paramunnidae. The two species compared above as members of "*Paramunna*" have been specifically excluded from that genus, but currently do not have an appropriate genus to house them (in litt. G. D. F. Wilson, Australian Museum). It is possible that the previous records of *M. wilsoni* from California do not apply to the current species, but confirmation of difference depends on reexamination of earlier materials. In an analogous case in the genus *Pleurocope*, assumptions that a report of *P. floridensis* from California reflected specimens of a known provisional from the area proved false. Upon reexamination of specimens identified as *P. floridensis*, they proved to belong to a second undescribed form from California.

ILLUSTRATION:



dorsal view

(from Hooker 1985 for wilsoni)

B. wilsoni to left

B. sp 151 to right