



CITY OF SAN DIEGO VOUCHER SHEET

Species: *Erichthonius* sp SD1

Authority:

Common Synonyms:

?*Erichthonius brasiliensis* (juvenile)

Taxon: Gammaridea: Corophioidea: Ischyroceridae

Date: 22 April 1998

By: Dean Pasko

Voucher Specimen(s):

Station	Date	Storage Location	Voucher#
2121	7/9/96	D.Pasko	
2137	7/15/96	D.Pasko	

Characters:

A small species, approximately 2-3 mm in length at maturity.

Male gnathopod 2 with double defining tooth; coxa 2 much broader than deep, antero-ventral margin slightly concave, posterior margin strongly oblique; article 2 (basis) elongate (Figure 1).

Male coxa 1 anteriorly produced, narrow, much broader than deep (Figure 2).

Female coxa 1 anteriorly produced, gently rounded posteriorly (Figure 3).

Female coxa 2 anteriorly produced, ventrally stepped (or sinuous), with oblique posterior margin (Figure 4).

Uropod 3 peduncle equal to urosomite 3 (both male and female).

Illustrations: *Erichthonius* sp SD1

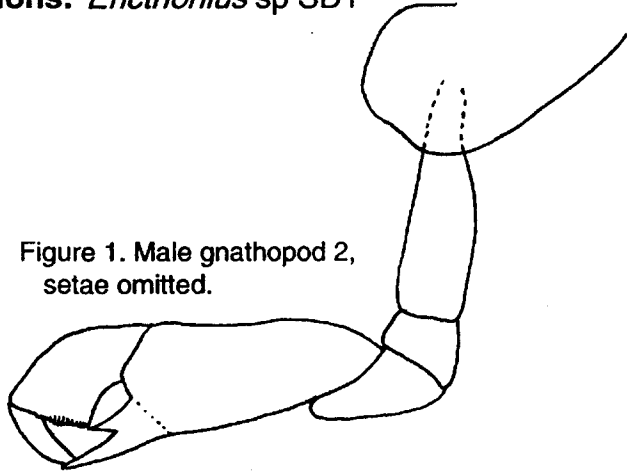


Figure 1. Male gnathopod 2, setae omitted.



Figure 3. Female coxa 1, setae omitted.



Figure 2. Male coxa 1, setae omitted.



Figure 4. Female coxa 2, setae omitted.

Related Species:

This species is very similar to *Erichthonius brasiliensis* in form of the gnathopods, mouthpart morphology, shape of coxa 5, length of uropod 3 peduncle (= urosomite 3), and uropod armature, etc. This species differs from *E. brasiliensis* in its consistently small size at maturity (approximately one-half the size of *E. brasiliensis*), the distinctive shape of coxae 1 and 2, and the more elongate basis of gnathopod 2 (male).

Comments:

It is possible that this species was previously mistaken for juvenile forms of *E. brasiliensis*, however, the consistently small size (2-3 mm) of ovigerous females and males with well developed penes, together with the few, but consistent differences listed above suggests that *Erichthonius* sp SD1 is a separate species.

(over)

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References:

Bousfield, E.L. 1973. Shallow water Gammaridean Amphipods of New England. Cornell University Press, Ithaca, New York; 312 pp.

Barnard, J.L. 1975. Phylum Arthropoda: Crustacea, Amphipoda: Gammaridea. Pp. 313-366. IN: R.I. Smith and J.T. Carlton (eds), *Light's Manual: Intertidal Invertebrates of the Central California Coast*. Third edition, University of California Press, Berkeley, California.

Distribution—

Pt. Loma: 63 ft to 275 ft in sandy sediments

Geographic: San Diego, California

Habitat: