

## VOUCHER SHEET

**Species name:** *Erichthonius* sp IS1

**Date Examined:** 28 March 2008

**Group:** Amphipoda, Family Ischyroceridae

**Voucher By:** Donald B. Cadien

**Voucher Specimen(s):** ISS Outer Coast Yr. 2, Station 113POIARE, subtidal rocky, replicate 1, 9 m, Sample Number 4008. 5 vouchers to MLML, 4 vouchers to CDF&G

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**SYNONYMY:** none

**LITERATURE:** Lincoln, Roger J. 1979. *British Marine Amphipoda: Gammaridea*. London: British Museum (NH).

Barnard, J. Laurens, and Gordan S. Karaman. 1991. The Families and Genera of Marine Gammaridean Amphipoda (except Marine gammaroids)[parts 1 and 2]. *Records of the Australian Museum Supplement* 13: 1-866.

### DIAGNOSTIC CHARACTERS:

1. With denticulate pads dorsally on the telson
2. With vestigial inner ramus on 3<sup>rd</sup> uropod
3. With unpigmented eyes
4. Female G2 article 5 bearing large ventral lobe
5. Eyelobe not acuminate
6. Body not pigmented with large blotches

### RELATED SPECIES AND CHARACTER DIFFERENCES:

1. Differs from both species of *Erichthonius* reported from California in eye color. *E. brasiliensis* has eyes red in life fading to reddish light brown in preservative. *E. rubricornis* has black eyes both in life and in preservation.
2. Differs from all other members of the genus *Erichthonius* in retaining a vestigial inner ramus on the third uropod
3. Differs from other genera in the subfamily in the typically "*Erichthonius*" telson; short and with small patches of recurved denticles, and lack of prominently antennapedal antenna 1 or 2

**DEPTH RANGE:** known from a single sample taken in 9 m

**DISTRIBUTION:** know only from shallow sublittoral rocks at Point Arena

**COMMENTS:** The presence of a vestigial inner ramus on the third uropod may require erection of a new genus for this species. It does not fit into any other extant genus in the tribe Siphonoecetini of the subfamily Ischyrocerinae. Although strongly resembling the genus *Erichthonius* in general habitus, structure of the antennae, structure of the gnathopods, and structure of the telson, the presence of a vestigial inner ramus differentiates the present species from all others in the genus. No mature males were present, so configuration of the carpochele gnathopod 2, which has value in separating species in this genus, remains unknown.

ILLUSTRATION:



Third uropod



Telson

telson, with small round  
denticulate pads