

AMPHIPODA: GAMMARIDEA

11 February 2005

DOGIELINOTIDAE, HAUSTORIIDAE, URUOTHOIDAE - B – Systematic placement of the single Dogielinotidae of the eastern Pacific is poorly resolved. *Eohaustorius* are blind, unpigmented, often abundant in clean, fine intertidal marine or estuarine sands where they swim and burrow upside down. Burrows leave distinctive, punctate indents on sand surface of swash zones and high intertidal puddles that look much like gopher diggings.

1. Without cusp on posterior dorsal of pereopod 7 article 2 (JLB 62c:250,fig 1: 1). 4
- Sharp cusp on posterior dorsal of pereopod 7 article 2 (Barnard1957c:83,PL16C: 2) . . . 2
2. Pereopod 4 article 5 width and length nearly equal with only two ventral spine fascicles and only slight posterior extension (Barnard1957c:83,PL16E: 3) . *Eohaustorius barnardi*
- Pereopod 4 article 5 width nearly twice length, with three ventral spine fascicles and great posterior extension (Bousfield & Hoover 1995:2(1)53, fig 11 P4: 4; Bousfield & Hoover 1995:2(1)51, fig 10 P4: 5) 3
3. Cusp long, height of posterior dorsal cusp of pereopod 7 article 2 twice as long as base (Bosworth 1973:254, fig 1f: 6) *Eohaustorius washingtonianus*
- Cusp short, height of posterior dorsal cusp of pereopod 7 article 2 as long as base (Bosworth1973:254,fig.1k: 7) *Eohaustorius brevicuspis*
4. Pereopod 4 article 5 with only two ventral spine fascicles (Barnard1962e:251, fig. 2F: 8) 5
- Pereopod 4 article 5 width nearly twice length, with three ventral spine fascicles (Bousfield & Hoover 1995:2(1)51, fig 10 P4: 5) *Eohaustorius brevicuspis*
5. Pereopod 6 article 4 long, nearly as wide at mid-length as at distal end and with 4 spine fascicle rows (Bousfield & Hoover 1995:2(1)46:fig 7,P6: 8; Bosworth 1973:254, fig. 1b: 10) 6
- Pereopod 6 article 4 distinctly narrower at mid-length and with less than 3 spine fascicle rows (Bosworth 1973:256:fig2j: 11) *Eohaustorius estuarius*
6. Pereopod 7 article 2 posterior edge nearly straight (Bosworth 1973:254,fig.1a: 12), dactyl of gnathopod 1 small (Bousfield & Hoover 1995:2(1)45, fig. 6:GN1: 13)
- *Eohaustorius sawyeri*
- Pereopod 7 article 2 posterior edge evenly rounded (Bousfield & Hoover 1995:2(1)46,fig7,P7: 14), dactyl of gnathopod 1 missing or fused with article 6 (Barnard1962e251:fig. 2 d: 15) *Eohaustorius sencillus*

Haustoriidae

Eohaustorius barnardi (Barnard 1957) Point Conception south, fine sand marine beaches 5-20m.

Eohaustorius brevicuspis Bosworth, 1973 Central California north to the Strait of Juan de Fuca, 0-1m. (*E. brevicuspis* and *E. washingtonianus* are distinguished only by the variable presence of a posterior cusp on pereopod 7 and may not be distinct species.)

Eohaustorius estuarius Bosworth, 1973, Eureka, California north to Cape Flattery, Washington, estuarine or brackish, 0-7m.

Eohaustorius sawyeri Bosworth, 1973, Moss Landing, California to southern Vancouver Island, 0-1m. (*E. sawyeri* and *E. sencillus* not clearly distinguished by any character.)

Eohaustorius sencillus Barnard, 1962, Point Conception to southern Oregon, 0-30m.

Eohaustorius washingtonianus (Thorsteinson 1941) Prince William Sound, Alaska southward to southern Oregon, possibly central California 0-18m.

Haustoriidae

