

## NEW HABITAT RECORDS FOR *GLENANTHE* SPECIES (DIPTERA: EPHYDRIDAE)<sup>1</sup>

B.A. Steinly<sup>2</sup>

**ABSTRACT:** New habitat records are presented for *Glenanthe interior* Chillcott. Several specimens were collected over an algal-covered seep and sand shore. Also, *G. litorea* Cresson was discovered in the marine sand beach habitat.

Three species of shore flies, *Glenanthe litorea* Cresson, *G. interior* Chillcott, and *G. fascipennis* Sturtevant and Wheeler are recorded from the United States. Sturtevant and Wheeler (1954) reported *G. fascipennis* and *G. litorea* from rather barren, moist saline areas. Also, *G. litorea* has been recorded from saltmarshes (Cresson, 1925; Simpson, 1976). *G. interior* was initially swept from *Petalostoma* sp. growing on stable spruce covered sand dunes in Manitoba, Canada (Chillcott, 1964). A single specimen of *G. interior* collected over a sedge meadow seepage area in Butler County, Ohio, constitutes the only United States record (Regensburg, 1978; Deonier and Regensburg, 1978).

Morphological separation of *Glenanthe* Haliday species is based upon wing and antennal characters. *G. litorea* has hyaline wings lacking pattern and gray antennae. In contrast, *G. fascipennis* has wings with two broad, poorly defined dark fasciae, one including the posterior crossvein and one nearer the wing apex, as well as yellowish antennae (Sturtevant and Wheeler, 1954). Additional descriptive characters include a fourth vein index of 2.2 for *G. litorea* and a fourth vein index of 2.0 for *G. fascipennis* (Sturtevant and Wheeler, 1954). Cresson (1925) listed the body length of *G. litorea* at 1.7 mm, while *G. fascipennis* is slightly smaller with a body length of 1.5 mm (Sturtevant and Wheeler, 1954).

While sampling in southern Ohio, I discovered several populations of *Glenanthe interior* in Butler County. Several specimens were collected with a modified aerial sweep net (Regensburg, 1977) in close proximity to a freshwater creek above an algal covered seep and sand shore. Also, the common saltmarsh inhabitant, *G. litorea*, was collected over a marine sand beach in Milford, Connecticut. The new aquatic and marine records substantiate wider habitat distributions. The two new Ohio records expand the distribution of *G. interior* to four distinctive aquatic habitats. *G. interior* has been collected from these four habitats from May through early July.

---

<sup>1</sup>Received November 19, 1983. Accepted February 14, 1984.

<sup>2</sup>Department of Entomology, University of Illinois, Urbana, Illinois 61801



**Family Ephydriidae*****Glenanthe interior*** Chillcott

Distribution: Butler Co., Ohio Four Mile Creek, Algal covered seep with limestone mud substrate, four adults, V-17-1979; three adults, V-18-1979; Harker's Run, Sand shore, 5 adults, VI-28-1978.

***Glenanthe litorea*** Cresson

Distribution: Milford, Conn., Anchor Beach, Sand beach intertidal area, 1 adult, VIII-7-1978.

**ACKNOWLEDGMENTS**

I thank Dr. D.L. Doenier for confirmation of species determinations and review of an early draft. I wish to express appreciation to Dr. May Berenbaum for reviewing the final manuscript.

**LITERATURE CITED**

- Chillcott, J.G. 1964. A new species of *Glenanthe* Haliday (Diptera: Ephydriidae) from the North American interior. Can. Ent. 96: 811-812.
- Cresson, E.T. 1925. Descriptions of new genera and species of the dipterous, family Ephydriidae. VII. Ent. New 36: 165-167.
- Deonier, D.L. and J.T. Regensberg. 1978. New records of Ohio shore flies (Diptera: Ephydriidae). Ohio J. Sci. 78: 154-155.
- Regensberg, J.T. 1977. A modified sweep net for quantitative sampling. Ent. News 88: 141-142.
- Regensberg, J.T. 1978. A new U.S. record for *Glenanthe interior* Chillcott (Diptera: Ephydriidae). Ent. New 89: 93-94.
- Simpson, K.W. 1976. Shore and brine flies (Diptera: Ephydriidae). Chapter 17. In: L. Cheng, ed. Marine insects. Am. Elsevier Publ. Co. New York.
- Sturtevant, A.H. and M.R. Wheeler. 1954. Synopses of Nearctic Ephydriidae (Diptera). Trans. Amer. Entomol. Soc. 79: 51-257.
- 
- 

**ANNOUNCING****MEMOIR # 34****PROCEEDINGS OF THE 8TH INTERNATIONAL SYMPOSIUM  
ON CHIRONOMIDAE**

32 papers on chironomid systematics, ecology, biology, and genetics. 385 pp. \$25.00.



Steinly, B A. 1984. "New Habitat Records For Glenanthe Species (Diptera, Ephydridae)." *Entomological news* 95, 45-46.

**View This Item Online:** <https://www.biodiversitylibrary.org/item/20617>

**Permalink:** <https://www.biodiversitylibrary.org/partpdf/22582>

**Holding Institution**

Smithsonian Libraries and Archives

**Sponsored by**

Smithsonian

**Copyright & Reuse**

Copyright Status: In copyright. Digitized with the permission of the rights holder.

Rights Holder: American Entomological Society

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.