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Geron Calvus (Diptera: Bombyliidae), a Parasite of Solenobia Walshella (Lepidoptera: Psychidae) in Michigan

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The blowfly situation worsened early in the afternoon when adults began to eclose from puparia in the sand. Thousands of flies emerged and walked across the sand toward the upper beach. They climbed vertical or near-vertical surfaces when available and rested there until their wings dried. Some took advantage of the sides of depressions in the sand for this, but most crawled to the upper beach and climbed blades of beach grass; at peak emergence some grass clumps harbored 40-50 flies at one time. Adults also climbed “vertical” surfaces of sunbathers lying on the sand. This was not appreciated, and the flies soon caused an exodus of intolerant individuals.

Most of the hardier visitors were finally driven off the beach by mid-afternoon when the combination of the fetid odor of alewives, the dead maggots, and migrating flies finally became too much to bear. The only one enjoying the entire situation was an ardent entomologist, who by late afternoon was almost alone—except for a few curiosity seekers who couldn’t quite imagine what he was doing there with his camera and net!
GERON CALVUS (DIPTERA: BOMBYLIIDAE), A PARASITE OF SOLENOBIA WALSHELLA (LEPIDOPTERA: PSYCHIDAE)

IN MICHIGAN

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Very little is known of the biology of bee-flies in the genus Geron; the few available records show that the larvae are parasitic on Lepidoptera larvae. Mik (1896) noted that Geron gibbosus Meigen had been reared from larvae of the pyralid Nephopteryx sublineatella Strg. and the psychid Fumaria crassiorella (Bruand) in Europe, while Maxwell-Lefroy and Howlett (1909) recorded the tortricid Laspeyresia jaculatrix Meyrick as a host of Geron argentinifrons Bru. in India. The present paper appears to be the first report on the biology of any North American Geron.

A single male Geron (Empidogeron) calvus Loew emerged in the laboratory on 27 May 1966 from a larval-pupal case of Solenobia walshella Clemens collected under the bark of a red oak stump on 26 April 1966 in Clinton County, Michigan (T5N, R1W, NW1/4 Sec. 24). Upon emergence, about three-fourths of the fly pupa was exserted from the case of the host, exactly as normally occurs upon emergence of the host moth.

This rarely-collected fly, the only representative of its subgenus in eastern North America, has been recorded from New York, New Hampshire, Massachusetts, New Jersey, and Pennsylvania (Painter, 1932; Painter & Painter, 1965). Solenobia walshella, likewise an eastern species, has been recorded as far west as Illinois (Davis, 1964), Michigan (Donahue, 1966), and Minnesota (Stehr, pers. comm.). The population of Solenobia in British Columbia, a large sample from which yielded no parasites, may be referable to another species (Leech & Sugden, 1967).

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LITERATURE CITED


