



Short note – Kurzmitteilung

No. 2/2012 Nr. 2/2012

Faunistics – Faunistik

Nearctic region – Nearktische Region

New records of lower Diptera for the Florida Keys, USA

[Neue Nachweise niederer Diptera für die Florida Keys, USA]

by

Catherine A. PRUSZYNSKI and Lawrence J. HRIBAR

Key West (USA) Marathon (USA)

The fly fauna (Insecta: Diptera) of the Florida Keys is an interesting subject for study. It contains Nearctic and Neotropical elements and most likely indicates a transition zone between the Nearctic and Neotropic faunal realms (BROWNE & PECK 1996), although many authors place the Florida Keys and southern peninsular Florida in the Neotropic realm (UDVARDY 1975, MORRONE 2006 and references therein). This note reports new records for some lower Diptera (Anisopodidae, Culicidae, Keroplatidae, Psychodidae) that either are uncommonly collected or represent significant range extensions.

ANISOPODIDAE

The wood gnats (Anisopodidae) are a small primitive family of Diptera with a worldwide distribution. Larvae are saprophages and adults are found near the larval habitat (PETERSON 1981). Two adult females that we identified as *Olbiogaster sackeni* EDWARDS, 1915 in the keys provided by TOZONNI (1993) have been collected in the Florida Keys. Published literature records from Florida include Jacksonville, Duval County (LANE & D'ANDRETTA 1958). Additional county records from specimens in the Florida State Collection of Arthropods are: Alachua, Dade, Desoto, Gadsden, Hardee, Hernando, Hillsborough, Manatee, Orange, Pinellas, Polk, and Sarasota Counties.

Material examined: USA: Florida, Monroe County, Fat Deer Key, ABC trap, 1 ♀, 18 May 2012, leg. D. DeMay; Key Largo, BG trap, 1 ♀, 20 September 2012, leg. D. DeMay.

CULICIDAE

Culex tarsalis COQUILLET, 1896 is a mosquito that occurs primarily in the western two-thirds of the United States. DARSIE & WARD (2005) give a geographic range for Florida that includes all of the Panhandle and the Gulf Coast south to about Charlotte Harbor (Charlotte County). Literature records exist from the old Marianna Army Air Base in Jackson County (MIDDLEKAUFF