

New Locality Records for Bruchidae of Florida and the West Indies (Coleoptera)

John M. Kingsolver

Florida State Collections of Arthropods
P.O. Box 147100
Gainesville, FL 326147100

Recent collections have resulted in provisional extensions of distributional ranges of 4 species of Bruchidae. All species of plants listed belong to the Leguminosae (Fabaceae).

Acanthoscelides obvelatus Bridwell was recently intercepted at the Miami, Florida, International Airport infesting *Phaseolus* spp. beans grown in Haiti and Cuba. Previous records for this bruchid include mainland localities in Mexico, Guatemala, and Colombia. No precise localities in the West Indies are known. These collections indicate that this bruchid is probably established on Hispaniola and Cuba.

Acanthoscelides modestus (Sharp): One collection was made at Brooksville in Hernando Co., FL, 26-XII-1990, in *Aeschynomene indica* Linnaeus, R. Dudley, collector. The other was in Polk Co., FL, precise locality unknown, 10-X-1990, in *Aeschynomene incana* Vog. in Linn., D. Stankey, collector. This species was previously known from Mexico south through Guatemala, Honduras, Panama, and Colombia. Host records in the latter countries are all in species of *Aeschynomene*. This is not only a new Florida record but also a new U. S. A. record. The two collections of this bruchid constitute a more convincing case of establishment in Florida than do the following two species.

Meibomeus apicicornis (Pic): A single female was collected in Lake Co. FL, 1.7 mi N Paisley, 22-VII-1994, sweeping grass, C. Murphy, collector. The normal range of this species is southern Mexico to Panama, and its known host plants are species in the genus *Desmodium*. Its presence in the middle of Florida is at present unexplained although several species of *Desmodium* are found there. Until additional specimens are collected, establishment of this species in Florida can only be regarded as tentative.

Mimosestes amicus (Horn): Two puzzling collections of a bruchid far out of its normal range were made, one by Vincent Golia in West Tampa, Hillsborough Co., FL, May 30, 1994, swept from an unknown tree species, and the other by Eric Stephens of Warrington, England, reared from an unknown leguminous tree seed in Orlando, Orange Co., June 1994. The nearest known previous locality for this bruchid is Atascosa Co., near San Antonio, Texas, but its known range extends from Kansas south to Costa Rica and west to California. It develops in the seeds of various species of *Acacia*, *Parkinsonia*, and *Prosopis*. Whether these collections are accidental or indicate a permanent establishment remains to be seen.