

## Research Note

### NEW ARTHROPOD RECORDS FOR PUERTO RICO<sup>1, 2</sup>

Records of 19 new arthropods are listed from Puerto Rico for the first time. These new arthropods, most of them of economic importance, include 1 tick and 2 mites, and 16 insects of 4 insect orders. They have been obtained since the last addition to the arthropod fauna was published by Medina and Martorell<sup>3</sup>. These new records are published for the purpose of making available the names as well as hosts of a new and interesting group of insects and acarines of economic importance not previously recorded from the Island. Most of these new records come from material collected and/or reared by the authors or other members of the Department of Entomology, as well as other persons.

The list that follows is arranged in alphabetical order.

#### CLASS ARACHNIDA

##### ORDER ACARINA

###### Family Ixodidae

###### 1. *Amblyomma variegatum* (Arushcha)

This tick commonly known as the bunt tick was collected at Cidra, Bo. Río Abajo, Rd. 172, km 7.9 at Mr. Mario Soler's farm on heavily infested cattle, June 11, 1974.

###### Family Tetranychidae

###### 2. *Schizotetranychus* sp. prob. undescribed

Collected at the Agricultural Experiment Station grounds, causing damage (yellow elongated spots) to rice foliage growing under greenhouse conditions, May 15, 1975, Coll.: S. Medina Gaud and J. Figarella.

###### 3. *Tetranychus evansi* Baker & Pritchard

Collected at Río Piedras, Bo. Cupey, attacking tomato leaves and

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<sup>3</sup> Medina Gaud, Silverio, and Martorell, Luis F., New insect records for Puerto Rico, J. Agric. Univ. P.R. 57(3): 247-54, 1973.

killing plants, May 21, 1973, Coll.: Antonio Rivera Pérez. Also at Bayamón, May 24, 1974, Coll.: J. García Tudurí.

#### CLASS INSECTA

##### ORDER COLEOPTERA

##### Family Curculionidae

#### 4. *Caulophilus oryzae* (Gyllenhal)

This weevil commonly known as the broadnosed grain weevil, also as the avocado weevil was collected at the Agricultural Experiment Fruit Substation, Juana Díaz, from seeds of avocado, *Persea americana*, Mar. 8, 1974, Coll.: S. Medina Gaud and Rafael Pérez.

#### 5. *Phyllotrox* sp.

Collected at Jayuya, Cerro Punta on flowers of *Gerbera jamesonii*, very abundant, Nov. 13, 1975, Coll.: S. Medina Gaud. Dr. D. R. Whitehead of the USDA, ARS at Beltsville, Maryland stated that this genus is not in the NMNH, and not in catalogs. It was also found with another undetermined genus of the subfamily Barinidae; Centrini and one undetermined nitidulid beetle.

##### ORDER DIPTERA

##### Family Chamaemyiidae

#### 6. *Leucopis* sp. *albipunctata* complex

Reared from larvae predating on *Aphis spiraeicola* infesting the leaves of *Polyscias guilfoylei* at Río Piedras, Agricultural Exp. Sta. grounds, Apr. 23, 1976, Coll.: J. García Tudurí, also from *Aphis spiraeicola* infesting the leaves of *Lagerstroemia speciosa* at Río Piedras, Bo. Cupey (Urb. Fair View), May 16, 1974, Coll.: José A. Salicetti. According to J. F. McAlpine, specialist of this group from Canada, the taxonomy of this complex of species has not been worked out, it is a world-wide group, and it is impossible to apply specific names at this time.

#### 7. *Hypoderma bovis* (Linnaeus)

This fly commonly known as the northern cattle group was collected from the back of a 3½ year old native cow at Orocovis, Rd. 892, Nov. 1975, Coll.: Olga Díaz Rivera. In the area were imported cows. Although this species was catalogued by Guimaraes<sup>4</sup> from imported cattle, no previous interception has been recorded from Puerto Rico.

<sup>4</sup> Guimaraes, J. H., A catalogue of the Diptera of the Americas south of the United States, 106 Family Oestridae (including Hypodermatidae). Dept. Zool., Sec. Agric., São Paulo, Brasil pp. 106.1-106.4, 1967.

## ORDER HOMOPTERA

## Family Coccidae

8. *Ceroplastes rubens* Maskell

This scale commonly known as the red wax scale was first collected at Río Piedras, Bo. Caimito, Rd. 842, km 20, on mango leaf, July 28, 1974, and Feb. 18, 1975, on leaves of *Persea americana*, Mar. 3, 1975, Coll.: P. González. Also at Bayamón, Bo. Candelaria, on leaves of *Aglaonema commutatum* and *Mangifera indica*, Mar. 13, 1975, Coll.: J. A. Lojo. At Río Piedras Agricultural Experiment Station grounds on leaves of *Polypodium* sp., Apr. 7, 1975, Coll.: J. Caso. Also on mango leaves, Apr. 24, 1975, Coll.: J. García Tudurí. Also on leaves of *Aglaonema commutatum* and *Schismatoglottis hanginton roebelini* at Río Piedras-Caguas Rd., Bo. La Changa at Miguel Angel Díaz's farm, Apr. 22, 1975, Coll.: S. Medina Gaud and J. García Tudurí; on leaves of *Aglaonema commutatum* at Trujillo Alto, Bo. St. Just, Rd. 842, km 1.2 (José A. Piñero's farm), May 14, 1975 and on same host plant and on leaves of *Ixora* spp., *Aglaonema roebelini* and *Nephtytis afzelli* at Toa Baja, Bo. Candelaria, Rd. 2, km 19.8 (William Pennock farm), May 16, 1975, and on *Diffenbachia picta* leaves at Vega Baja, Bo. Río Arriba, Rd. 646, km 2.3, June 8, 1975, Coll.: S. Medina Gaud and J. García Tudurí.

9. *Coccus elongatus* (Signoret)

Collected at Río Piedras, Bo. Caimito on twigs of *Tabebuia heterophylla*, May 18, 1974, Coll.: Pedro González. Also on stem and leaves of *Callisia oaxaca* at Río Piedras, Urb. San Gerardo, Cupey Bajo, April 28, 1975, Coll.: S. Medina Gaud.

10. *Coccus moestus* De Lotto

Collected at Río Piedras, Agricultural Experiment Station grounds on mango (*Mangifera indica*) leaves, Apr. 24, 1975, Coll.: J. García Tudurí.

11. *Saissetia neglecta* De Lotto

Collected at Río Piedras, Bo. Caimito, on stem and branches of *Cajanus cajan*, Apr. 10, 1974, Coll.: Pedro González.

## Family Diaspididae

12. *Aspidiotus excisus* (Green)

Collected at Santurce, Isla Verde (Urb. Villamar) on leaves of *Aglaonema commutatum*, March 15, 1974, Coll.: L. F. Martorell.

13. *Fiorinia fioriniae* (Targ.)

Collected at Juana Díaz, Fortuna Agricultural Experiment Fruit Substation on leaves of avocado, *Persea americana*, Mar. 8, 1974, Coll.: S. Medina Gaud and Rafael Pérez. Heavy infestation in many trees in the avocado orchard.

14. *Gymnaspis aechmeae* Newst.

This scale commonly known as the fly-speck scale was collected at Río Piedras, Bo. Cupey (Urb. San Gerardo) on leaves of different species of ornamental bromeliads, Mar. 18, 1974, Coll.: S. Medina Gaud.

15. *Pseudaonidia trilobitiformis* (Green)

Collected at Ponce, Central Mercedita, on leaves of *Ixora coccinea*, Mar. 1, 1974, Coll.: L. F. Martorell and J. García Tudurí. Also at Humacao, Palmas del Mar nurseries, on leaves of *Calophyllum calaba*, May 13, 1975, Coll.: P. Suazo.

ORDER HYMENOPTERA

Family Diapriidae

16. *Trichopria* sp.

Reared from guava, *Psidium guajava*, fruit infested with *Anastrepha suspensa* larvae, collected at the Fortuna Agricultural Experiment Fruit Substation in Juana Díaz. Brought on Aug. 21, 1973, wasps emerged during Sept. 18–21, 1973, Coll.: S. Medina Gaud.

Family Eurytomidae

17. *Bruchophagus* sp.

Reared from seed pods of *Indigofera suffruticosa*, collected at Ciales, Bo. Cacao, Rd. 615, km 1.1, Nov. 13, 1975, Coll.: S. Medina Gaud. Dr. G. Gorth of the National Museum of Natural History at Washington stated that he could not identify this species because the description by Risbec of a species called *indigoferae* is too meager and that they do not have representatives of that species.

18. *Desantisca abalosi* (De Santis)

Reared from the eggs of the blackwidow spider, *Latrodectus mactans*, collected at Cayey, May 16, 1974, Coll.: Rafael Pérez Rivera.

Family Ichneumonidae

19. *Diadegma insulare* (Cr.)

Reared from pupae of *Plutella xylostella* whose larvae were attacking cabbage at Juana Díaz, Fortuna Agricultural Experiment Fruit Substation, Feb. 1974, Coll.: Rafael Pérez Pérez.

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