

New Insect Records for Puerto Rico¹

Silverio Medina Gaud and Luis F. Martorell²

INTRODUCTION

New records pertaining to Puerto Rican insects have accumulated since Wolcott's 1948 publication³ listing the insects of Puerto Rico and Maldonado and Navarro's⁴ additions and corrections to it. These new records are published for the purpose of making available the names of new and interesting groups of insects 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.

The list that follows is arranged in alphabetical order.

ORDER COLEOPTERA

FAMILY BOSTRICHIDAE

1. *Heterobostrichus aequalis* (Waterhouse)

Collected at San Juan from dry trunks of bonsai trees imported from California, May 25, 1972, Coll.: J. Lojo.

FAMILY BRUCHIDAE

2. *Callosobruchus rhodesianus* (Pic)

Intercepted at San Juan from pigeon peas from Africa, May 1965, Coll.: J. Lojo.

¹ Manuscript submitted to the Editorial Board February 14, 1973.

² Associate Entomologist and Entomologist, respectively, Agricultural Experiment Station, Mayagüez Campus, University of Puerto Rico, Río Piedras, P. R. The authors wish to express appreciation to the personnel of the U. S. Department of Agriculture, Entomology Research Branch, Insect Identification and Parasite Introduction Laboratories, Washington, D. C., to Dr. J. F. McAlpine of the Canada Department of Agriculture, Entomology Research Institute, Ottawa, Ontario, Canada, to Dr. Tokuwo Kono of the Bureau of Entomology, California Department of Agriculture, Sacramento, California, and to Dr. K. Sakimura of Honolulu, Hawaii for their help in the identification of the species listed herein.

³ Wolcott, G. N., The Insects of Puerto Rico, J. Agr. Univ. P.R. 32 (1-4): 1-975, 1948.

⁴ Maldonado Capriles, J. and Navarro, C. A., Additions and corrections to Wolcott's "Insects of Puerto Rico," Carib. J. Sci. 7 (1-2): 45-64, 1967.

FAMILY CURCULIONIDAE

3. *Sphenophorus venatus vestitus* Chttd.

Several larvae and adults collected at the Gurabo Agricultural Substation in rice plots, larvae tunneling stems, July 16, 1971, Coll.: F. Abruña; and doing damage to Bermuda grass roots at Gramaslindas Farms at Dorado, July 1972, Coll.: L. F. Martorell.

FAMILY NITIDULIDAE

4. *Carpophilus freemani* Dobson

Collected at the Fortuna Agricultural Experiment Station on fruits of date palm, *Phoenix dactylifera*, July 10, 1963, Coll.: George C. Jackson.

5. *Carpophilus mutilatus* Er.

Specimens collected at the Fortuna Agricultural Experiment Substation on corn tassels, July 5, 1963, Coll.: Peter Sweere and on *Phoenix dactylifera* fruits, July 10, 1965, Coll.: George C. Jackson.

FAMILY SCOLYTIDAE

6. *Coccotrypes* sp. prob. *carpophagus* (Hornung)

Collected at the Fortuna Agricultural Experiment Substation attacking fruits of *Phoenix dactylifera*, July 7, 1964, Coll.: George C. Jackson.

7. *Coccotrypes dactyliperda* (F.)

Specimens collected at Río Piedras in carved ornamental figures manufactured from the ivory nut, *Phytelepas macrocarpa*, imported from Ecuador, South America, Nov. 29, 1946, Colls.: David A. Rodríguez and L. F. Martorell.

ORDER DIPTERA

FAMILY AGROMYZIDAE

8. *Liriomyza munda* Frick

Collected and reared from mined *Chrysanthemum* leaves intercepted at San Juan shipped from Floral Acres, Florida, U.S.A., Feb. 21, 1965, Coll.: J. Lojo; on cucumbers, *Cucumis sativus* and beans, *Phaseolus vulgaris*, at Fortuna Substation, near Ponce, May, 11, 1972, collected and reared by R. Pérez-Pérez.

FAMILY DROSOPHILIDAE

9. *Leucophenga bimaculata* (Loew)

Collected at the Cayey Regional College campus in a Malaise trap; March 16, 1969, Colls.: H. S. Telford and S. Medina Gaud.

FAMILY LONCHAEIDAE

10. *Dasiops coracinus* McAlpine

Collected at the Cayey Regional College campus in a Malaise trap; April 13-14, 1969, Colls.: H. S. Telford and S. Medina Gaud.

11. *Dasiops passifloris* McAlpine

Collected at Río Piedras Agricultural Experiment Station in a Malaise trap, Oct. 23, 1968, Colls.: H. S. Telford and S. Medina Gaud.

12. *Silba certa* (Walker)

Reared from decaying seed pods of *Inga vera*, collected at El Verde Field Station, Caribbean National Forest (El Yunque Rain Forest), July 13, 1970, Coll.: R. Lavigne.

FAMILY MICROPEZIDAE

13. *Hoplocheiloma fabricii* Steyskal

Collected at Desecheo Island on goat feces, July 13, 1968, Coll.: S. Medina Gaud; at Río Piedras Agricultural Experiment Station grounds in a Malaise trap, Oct. 13, 1968; at Isabela, Guajataca Gorge on forest floor, Aug. 9, 1968, Coll.: S. Medina Gaud; and on the Cayey-Salinas Highway No. 1, Km. 80, in a Malaise trap, Nov. 27, 1968, Colls.: H. S. Telford and S. Medina Gaud.

FAMILY ODINIIDAE

14. *Odinia parvipunctata* Sabrosky

Collected on Río Piedras Agricultural Experiment Station grounds, Oct. 22, 1968 and on the Cayey Regional College campus in a Malaise trap, April 20-21, 1969 and Nov. 15-17, 1968, Colls.: H. S. Telford and S. Medina Gaud.

FAMILY TEPHRITIDAE

15. *Acinia picturata* (Snow)

Collected on the Cayey Regional College campus in a Malaise trap, March 17, 1969 and April 19-21, 1969, Colls.: H. S. Telford and S. Medina Gaud.

16. *Blepharoneura poecilosoma* (Schiner)

Collected on the Cayey Regional College campus in a Malaise trap, April 19–21, 1969, Colls.: H. S. Telford and S. Medina Gaud.

17. *Paroxyna picciola* (Big.)

Reared from *Bidens pilosa* flowers collected at Lajas Agricultural Experiment Substation, May 17, 1972, Coll.: S. Medina Gaud.

ORDER HOMOPTERA

FAMILY APHIDIDAE

18. *Aphis sacchari* Zehntner

Collected on sugarcane leaves at Río Piedras Agricultural Experiment Station grounds, Jan. 9, 1971, Coll.: J. García Tudurí.

FAMILY CERCOPIDAE

19. *Clastoptera undulata* Uhler

Specimens found attacking Australian pine, *Causuarina equisetifolia* at Dorado Beach Hotel golf courses, Aug. 6 and 10, 1971, Colls.: S. Medina Gaud and L. F. Martorell. This insect also has been observed on the same host tree at the Isla Verde beach area north of the International Airport and at the Río Piedras Campus, University of Puerto Rico.

FAMILY COCCIDAE

20. *Protopulvinaria pyriformis* (Ckll.)

Collected at Hato Rey, on heavily infested "acerola", *Malpighia puniceifolia* leaves, the scales partially being controlled by entomogenous fungi, April 6, 1955, Coll.: Carlos E. Chardón.

FAMILY DIASPIDIDAE

21. *Aulacaspis rosae* (Bouché)

Abundant at the Castañer Agricultural Experiment Substation attacking the branches of the introduced Mysore raspberry, *Rubus albescens* Roxb. (= *Rubus lasiocarpus* Smith), Feb. 18, 1959, Coll.: T. Singh.

22. *Leucaspis cockerelli* (de Charmoy)

Collected in the backyard at the home of Dr. L. Fernández at Caparra (Guaynabo) infesting leaves of the orchid, *Schomburgkia undulata*, growing on a mango tree, June 8, 1961, Colls.: S. Medina Gaud and L. F. Martorell.

23. *Genaparlatoria pseudaspidiotus* Ldgr.

Collected in Mrs. Mercedes Pirazzi's greenhouse at Dos Pinos, Río Piedras; very abundant on the orchid species *Vanda*, variety Miss Agnes Joaquim, June 14, 1961, Colls.: S. Medina Gaud and L. F. Martorell.

FAMILY PSEUDOCOCCIDAE

24. *Pseudococcus citricus* (Ezzart & McCon)

Found at Castañer Agricultural Experiment Substation attacking coffee roots, *Coffea arabica*, March 2, 1959, Coll.: J. H. López Rosa.

FAMILY MEMBRACIDAE

25. *Umbonia crassicornis* A. & S.

The first specimens attacking trees in Puerto Rico were collected on *Pithecellobium dulce*, at Santurce, May 1971, Coll.: Sonia Goicocchea. This introduced species, native to continental tropical America, is now widely distributed in the San Juan metropolitan area. Also observed as abundant by R. Inglés on the same host tree at Caserío Roosevelt, Mayagüez, Nov. 18, 1972.

ORDER HYMENOPTERA

FAMILY EULOPHIDAE

26. *Achrysocharella* sp.

Adults of this genus were reared from larvae of the agromyzid, *Liriomyza munda* Frick, mining cucumber leaves at Fortuna Agricultural Experiment Substation, May 11, 1972, Coll.: R. Pérez.

27. *Diglyphus begini* (Ashm.)

Adults reared from larvae of the agromyzid, *Liriomyza munda* Frick, mining bean leaves at Fortuna Substation, May 11, 1972, Coll.: R. Pérez.

28. *Melitobbia chalybii* Ashm.

Reared from pupa of *Sceliphron caementarium* at Mayagüez by J. Maldonado Capriles.

29. *Tetrastichus minutus* (How.)

Reared from parasitized larvae of *Cycloneda sanguinea* from material brought from Central Mercedita, Ponce, June 2 and 9, 1964, Coll.: S. Medina Gaud.

30. *Neosycophila bicolor* (Ashm.)

This species, living together with *Neosycophila incerta* and *Physothorax pallidus*, were found inside the mature fruits of *Ficus laevigata* on the Cayey-Salinas road at an altitude of 500 feet above sea level, July 24, 1956, Colls.: S. Medina Gaud and L. F. Martorell. They also were found in association with *Calyostichus longicaudus* Mayr and *Idarmes carme* Walk., making it possible for the first time for the males and females of this last species to associate, also *Blastophagus insularis* Ashm. and *Secundeisemia mexicana* Ashm. of the family Agaonidae.

31. *Neosycophila incerta* (Ashm.)

See information above.

32. *Physothorax pallidus* Ashm.

See information above.

ORDER ISOPTERA

FAMILY KALOTERMITIDAE

33. *Glyptotermes liberatus* (Snyder)

Collected on wet rotten wood in the El Yunque Mountains, April 4, 1947 and at the Maricao State Forest, Coll.: J. A. Ramos. Specimens identified by A. Emerson, American Museum of Natural History, New York, N.Y.

ORDER LEPIDOPTERA

FAMILY OLETHREUTIDAE

34. *Gymnandrosoma aurantianum* Costa Lima

Reared from larvae attacking fruits of guava, *Psidium guajava*, Trujillo Alto, Jan. 1962, Coll.: Willam Pennock.

35. *Laspeyresia flavicollis* (Wlsh.)

Reared from larvae infesting seeds of *Pithecellobium arboreum* collected on the grounds of the Río Piedras Agricultural Experiment Station, Oct. 1, 1957, Colls.: S. Medina Gaud and G. Rivera Mercado.

FAMILY PYRALIDAE

36. *Sylepta imbroglialis* Dyar

Collected from *Duggena spicata* leaves at Arcibo, Cambalache Forest Dec. 3, 1969 and reared, Colls.: J. Maldonado Capriles and S. Medina Gaud.

37. *Zellerina pterophoralis* Wlk.

Collected at Barrio Borinquen, Caguas and reared from *Solanum torvum* leaves, April 17, 1970, Coll.: J. Maldonado Capriles.

FAMILY TORTICRIDAE

38. *Platynota* sp.

Collected at Castañer Agricultural Experiment Substation and reared from infested coffee berries, 1957, Coll.: M. E. Pérez Escolar.

ORDER ORTHOPTERA

FAMILY ACRIDIDAE

39. *Dellia* prob. n. sp.

Collected at El Yunque-Caribbean National Forest, July 30, 1959, Coll.: S. Medina Gaud and L. F. Martorell.

ORDER THYSANOPTERA

FAMILY THRIPIDAE

40. *Dendrothripoides ipomeae* Bagnall

Collected on *Ipomoea rubra* foliage at Yabucoa, Sierra de la Pandura, May 5, 1963, Coll.: S. Medina Gaud; and on *Ipomoea batatas* (sweet potato) leaves in Yabucoa, March 12, 1963, Coll.: Julio Bird.

41. *Leucothrips furcatus* Hood

Collected on *Ipomoea rubra* leaves at Yabucoa, Sierra de la Pandura, May 5, 1963, Coll.: S. Medina Gaud. Also on *Ipomoea rubra* leaves on the Ciales-Villalba road, Km. 28, May 9, 1963; on *Ipomoea rubra* leaves at Utuado, Río Abajo State Forest, April 2, 1964 and on the same host plant at Barrio Limaní, Adjuntas June 16, 1964, Coll.: S. Medina Gaud.

42. *Sericothrips geminus* Hood

Collected on *Andira inermis* and *Neurolaena lobata* leaves at Río Abajo State Forest, Utuado, April 2, 1964, Colls.: G. Rivera Mercado and S. Medina Gaud.

43. *Scolothrips* sp. near *pallidus* (Beach)

Collected on *Ipomoea triloba* leaves on Desecheo Island, Puerto Rico, July 13, 1968, Coll.: S. Medina Gaud.

FAMILY PHLAEOTHIRIPIDAE

44. *Rhaebothrips major* Bagnall

Collected on *Ipomoea batatas* leaves at Yabucoa March 12, 1963, Coll.: Julio Bird.

SUMMARY

Forty-four species of insects, representing 8 orders, 25 families and 40 genera, were collected or reared in the course of several years and are being reported from Puerto Rico for the first time.

RESUMEN

Se informan por primera vez en Puerto Rico, cuarentaicuatro especies de insectos que representan 8 órdenes, 25 familias y 40 géneros diferentes, que fueron recolectados o criados en el curso de varios años.