

### Research Note

#### NINE NEW RECORDS OF COLLEMBOLA (INSECTA) FROM PUERTO RICO AND THE FIRST RECORD OF THE ORDER FROM TORTOLA, BRITISH WEST INDIES<sup>1, 2</sup>

Since his arrival at the Illinois Natural History Survey in August 1974, the author studied several collections of Puerto Rican Collembola and one collection from the island of Tortola. The study of part of this material, and of that in his collection, has resulted in nine new records for Puerto Rico and one for Tortola.

Specimens of the taxa recorded herein are deposited in the collections of the Illinois Natural History Survey (INHS), the British Museum (Natural History) (BMNH), the collection of Dr. K. Christiansen (KC), and in the author's collection (JAMM). These initials follow the collection records of the various taxa to indicate where specimens have been deposited.

All the specimens were collected from leaf litter except as noted. Those entries without a collector's name indicate collections made by the author.

#### NEW RECORDS

##### FAMILY Poduridae SENSU LATO

##### *Neotropiella silvestrii* (Denis).<sup>3</sup>

Collected at Cayey, Rd. 1, km 70.3, June 13, 1961, coll.: S. Medina Gaud, 3 specimens, and Rd. 741, km 4.6, Apr. 8, 1974, 1 specimen. Also from Luquillo, El Yunque, and vicinity, July 16-17, 1958, beating and sweeping vegetation, coll.: M. W. Sanderson, 1 specimen. On Maricao, 0.5 km from town on the road to the fish hatchery, Dec. 27, 1973, colls.: J. A. Mari Mutt and R. Rodriguez, 2 specimens; at Moca, Rd. 110, km

<sup>1</sup> Manuscript submitted to Editorial Board October 20, 1976.

<sup>2</sup> The author wishes to express his gratitude to Dr. K. Christiansen, Grinnell College, Grinnell, Iowa, for kindly placing at his disposal a collection of cave Collembola made by Dr. S. J. Peck in 1974, and for the identification of *Folsomides americanus*. Acknowledgements are also given to Dr. Cl. Delamare Deboutteville, French Museum of Natural History, Brunoy, for studying the specimens of *Collophora quadrioculata*, to Dr. D. L. Wray, North Carolina Department of Agriculture, Raleigh, for the determination of *Onychiurus fimetarius*, to Dr. P. N. Lawrence, British Museum (Natural History), London, for the identification of *Cryptopygus*, and Dr. P. F. Bellinger, California State University, Northridge, for his comments on *Paranura* sp.

<sup>3</sup> Denis, J. R., Notes sur les collembolés récoltés dans ses voyages par le Prof. F. Silvestri (Description d'espèces nouvelles), Boll. Lab. Zool. Portici, 22: 166-80, 1929.

7.2, Mar. 9, 1974, 2 specimens; and from Tortola (B.W.I.), road to town, July 9, 1958, beating vegetation, coll.: M. W. Sanderson, 1 specimen; in JAMM and INHS.

The specimen from Tortola represents the first record of the order from that island.

*Paranura* sp.

Collected at Cayey, Rd. 15, km 22.4, Apr. 18, 1974, 1 specimen. Also from Quebradillas, Balneario Guajataca, 50 m elevation, Jan. 5, 1960, forest debris, coll.: G. E. Haas, 1 specimen; and on San Sebastián, Rd. 111, km 14.5; Mar. 5, 1974; 1 specimen; in JAMM.

These specimens, which apparently belong to a new species, represent the first record of the genus from the Neotropical Region.

*Odontella* sp.

Collected at Cayey, Rd. 1, km 70.3, June 13, 1961, coll.: S. Medina Gaud, 2 specimens; in JAMM.

FAMILY Onychiuridae SENSU LATO

*Onychiurus fimetarius* (Linné)

Collected at Maricao, on the road to the fish hatchery; May 1973, colls.: J. A. Mari Mutt and F. Moll, many specimens, and at Mayagüez, Jan. 1961, on cow dung, coll.: J. Almeyda, 14 specimens; in JAMM.

These records represent the first report of the species from the Neotropical Region.

FAMILY Isotomidae

*Folsomides americanus* Denis<sup>4</sup>

Collected at Moca, Rd. 110, km 7.2; Mar. 9, 1974, 1 specimen; in JAMM.

Described from Costa Rica; the species was reported from Cuba by Massoud and Gruia<sup>5</sup>.

<sup>4</sup> Denis, J. R., Contributo alla conoscenza del "microgenton" di Costa Rica II. Collemboles de Costa Rica avec une contribution aux espèces de l'ordre, Boll. R. Lab. Ent. Agric. Portici, 25: 69-170, 1931.

<sup>5</sup> Massoud, Z. and M. Gruia, Collemboles Arthropleones de Cuba récoltés en 1969 par la mission Cubano-Roumanie, Résultats expéd. biospeol. Cubano-Roumanie à Cuba, Editura Acad. Rep. Socialiste Roumanie, Bucarest, pp. 327-43, 1974.

*Cryptopygus thermophilus* Axelson<sup>6</sup>

Collected from Cayey, Rd. 1, km 70.3; June 13, 1961, coll.: S. Medina Gaud, many specimens. Also from Guayama, Rd. 179, km 3.7, Apr. 18, 1974, 1 specimen; and on Las Marías, Rd. 106, km 15.1, Dec. 27, 1973, 1 specimen; at Maricao 1/2 km from town on the fish hatchery road, Dec. 27, 1973, many specimens; and on Mayagüez, Rd. 108, km 9.8, Jan. 4, 1974, dry leaf litter and soil, 6 specimens; from Morovis, Rd. 155, km 46.2, Mar. 21, 1974, 2 specimens; from Orocovis, Rd. 155, km 21.8, Mar. 21, 1974, many specimens; and from Río Grande, El Verde, Rd. 186, km 19.3 and 21.4, Dec. 30, 1973, 2 specimens; in JAMM and BMNH.

The species is also known in the neotropics from Cuba (Massoud and Gruia<sup>7</sup>, Costa Rica (Denis<sup>8,9</sup>), and Peru (Winter<sup>10,11</sup>).

## FAMILY Emtombryidae SENSU LATO

*Metasinella topotypica* Bonet<sup>12</sup>

Collected at Mona Island, Cueva Doña Geña, June 5, 1974, coll.: S. B. Peck, 5 specimens; in JAMM and K. C.

The genus *Metasinella* was previously known from caves in Cuba and the Yucatán Peninsula (Mexico). *M. topotypica* was reported from Cuba by Bonet<sup>13</sup> and Massoud and Gruia<sup>14</sup>

## FAMILY Sminthuridae SENSU LATO

*Collophora quadrioculata* (Denis)<sup>15</sup>

Collected at Adjuntas, Castañer coffee farm, Sept. 24, 1958, coll.: S. Medina Gaud, 2 specimens; also from Arecibo, Cueva Los Chorrros, May

<sup>6</sup> Axelson, W. M., Vorläufige Mitteilung über einige neue Collembolen Formen aus Finnland, Medd. Soc. Faun. Fl. Fenn., 26: 105-23, 1900.

<sup>7</sup> loc. cit.

<sup>8</sup> Denis, J. R., 1931; loc. cit.

<sup>9</sup> Denis, J. R., Contributo alla conoscenza del "microgenton" di Costa Rica. III. Collemboles de Costa Rica avec une contribution aux espèces de l'ordre (deuxième note), Boll. R. Lab. Ent. Agric. Portici, 27: 222-322, 1933.

<sup>10</sup> Winter, C., Zur ökologie und taxonomie der neotropischen bodentiere. II. Zur Collembolen-Fauna Perus, Zool. Jb. Syst., 90: 393-520.

<sup>11</sup> Winter, C., Beitrage zur kenntnis der neotropischen Collembolen-fauna. I. Isotomiidae (2. Teil), Senck. Biol., 48(1): 37-69, 1967.

<sup>12</sup> Bonet, F., Sobre el género *Metasinella* Denis y algunos otros colémbolos cavernícolas de Cuba, Ciencia 5(3): 17-24, 1944.

<sup>13</sup> op. cit.

<sup>14</sup> loc. cit.

<sup>15</sup> Denis, J. R., 1933, loc. cit.

31, 1974, in guano, coll.: S. B. Peck, 12 specimens; and at San Sebastián, Rd. 111, km 14.5, Mar. 9, 1974, 9 specimens; in JAMM and K. C.

The species was previously known only from the type locality in Costa Rica. *Previously Reported From U.S.A.*

*Bourletiella* sp.

Collected at Isabela, Agricultural Experiment Station, Apr. 1975, sticky traps placed on soybeans (var. Williams), colls.: M. E. Irwin and E. H. Paschal; many specimens collected on several days during April; in JAMM and INHS.

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