

# RECORDS OF A COLLECTION OF MALLOPHAGA AND ANOPLURA FROM NICARAGUAN MAMMALS<sup>1</sup>

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## ABSTRACT

Records of species of Mallophaga and Anoplura from 21 species and subspecies of mammals representing more than 100 collections in Nicaragua are reported.

For the past few years, personnel of the Museum of Natural History, University of Kansas, under the supervision of Dr. J. Knox Jones, have collected mammals in Nicaragua. Reported herewith are records of the Mallophaga and Anoplura collected from those mammals. This is the first published report of Mallophaga and Anoplura from Nicaraguan mammals. Host identifications were made by Dr. Jones, and the skins are in the Museum of Natural History, University of Kansas; the accession number of each skin is given. The Mallophaga and Anoplura, except for representative examples retained by the author, are in the Snow Entomological Museum, University of Kansas.

## MALLOPHAGA

### Family Trimenoponidae

*Hoplomyophilus nativus* Méndez, 1967.

Ex: *Hoplomys gymnurus truei* J. A. Allen, Armored Rat: Zelaya; El Recreo, June 22, 1967 (KU 110580).

### Family Gyropidae

*Macrogyropus amplexans amplexans* (Neumann, 1912).

Ex: *Dasyprocta punctata punctata* Gray, Agouti: Jinotega; Yali, August 4, 1966 (KU 106884).

*Gyropus mesoamericanus* Mendez, 1969.

Ex: *Hoplomys gymnurus truei* J. A. Allen, Armored Rat: Zelaya; El Recreo, June 22, 1967 (KU 110580).

*Gliricola panamensis* Werneck, 1944.

Ex: *Hoplomys gymnurus truei* J. A. Allen, Armored Rat: Zelaya; El Recreo, June 22, 1967 (KU 110580).

Ex: *Proechimys semispinosus centralis* (Thomas), Tomes' Spiny Rat: Zelaya; El Recreo, June 25, 1967 (KU 110581).

### Family Trichodectidae

*Enrichophilus mexicanus* (Rudow, 1866).

Ex: *Coendou mexicanus laenatus* Thomas, Mexican Porcupine: Carazo; Diriamba, August 11, 12, 13 and 15, 1967 (KU 110572-5).

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*Neotrichodectes mephitisidis* (Packard, 1872).

Ex: *Mephitis macroura richardsoni* Goodwin, Hooded Skunk: Chontales; Hato Grande, April 21, 1968 (KU 115619), Rivas; Finca Amayo, July 23, 1964 (KU 98135-7), Rivas; Sapoá, June 20, 1966 (KU 106890), Rivas; San Juan del Sur, June 24, 1966 (KU 106889), Santa Rosa; Boaco, March 21, 1968 (KU 115618).

*Neotrichodectes pallidus* (Piaget, 1880).

Ex: *Nasua narica narica* (Linnaeus), Coati: Zelaya; El Recreo, February 25, 1968 (KU 115605 and 115606).

*Neotrichodectes* species.

Ex: *Conepatus semistriatus yucatanicus* Goldman, Striped Hog-nosed Skunk: Chontales; Villa Somoza, August 5, 1967 (KU 110600). This form is close to *Neotrichodectes arizoneae* Werneck, 1948.

*Trichodectes octomaculatus* Paine, 1912.

Ex: *Procyon lotor crassidens* Hollister, Raccoon: Rivas, San Juan del Sur, June 23, 1966 (KU 106887).

*Trichodectes potus* Werneck, 1934.

Ex: *Potos flavus campbellensis* Nelson and Goldman, Kinkajou: Matagalpa; Esquipulas, March 16, 1968 (KU 115608).

## ANOPLURA

## Family Hoplopleuridae

*Enderleinellus hondurensis* Werneck, 1948.

Ex: *Sciurus variegatoides belli* Nelson, Variegated Squirrel: Zelaya; El Recreo, February 25, 1968 (KU 115253).

Ex: *Sciurus variegatoides underwoodi* Goldman, 1932, Variegated Squirrel: Matagalpa; La Danta, March 14, 1968 (KU 115282), and March 17, 1968 (KU 115284).

Ex: *Sciurus variegatoides* new subspecies, Variegated Squirrel: Rivas; Mérida, Isla de Ometepe, April 16, 1968 (KU 115326) and April 7, 1968 (KU 115335).

*Fahrenholzia fairchildi* Johnson, 1962.

Ex: *Liomys salvini vulcani* (J. A. Allen), Salvin's Spiny Pocket Mouse: Boaco; Santa Rosa, July 11, 1967 (KU 110403); July 13, 1967 (KU 110407-9); August 9, 1967 (KU 110410 and KU 110413-7), Boaco; Los Cocos, July 18, 1964 (KU 97924), Carazo; Diríamba, August 11, 1967 (KU 110431) and August 12, 1967 (KU 110438), Chinandega; Cosigüina, March 2, 1968 (KU 115383, 115340, and 115342) and March 4, 1968 (KU 115346), Chinandega; San Antonio, July 6, 1964 (KU 97920), Chinandega; Hda. Bellavista, Volcán Casita, July 13, 1966 (KU 106374); July 15, 1966 (KU 106378, 106383, and 106384); July 16, 1966 (KU 106388); July 17, 1966 (KU 106494); and July 18, 1966 (KU 106497), Estelí; Darailí, June 25, 1964 (KU 97916), Mangaua; Las Maderas, August 8, 1966 (KU 106498 and 106516), Matagalpa; Esquipulas, March 16, 1968 (KU 115359, 115360, and 115364); March 17, 1968 (KU 115366, 115367, 115368, 115369, 115371, and 115372), Rivas; Moyogalpa, Isla de Ometepe, July 30, 1964 (KU 97929 and 97931); July 31, 1964 (KU 97932); August 1, 1964 (KU 97936), Rivas; Alta Gracias, Isla de Ometepe, March 25, 1968 (KU 115385); March 26, 1968 (KU 115389 and 115390), Rivas; Merida, Isla de Ometepe, April 7, 1968 (KU 115402 and 4) and April 8, 1968 (KU 115401), Rivas; Rivas, July 23, 1964 (KU 97960), Rivas; Finca Amayo, July 21, 1964 (KU 97961), and Rivas; Sapoá, June 22, 1966 (KU 10519-20).

*Fahrenholzia ferrisi* Werneck, 1952.

Ex: *Heteromys desmarestianus fuscatus* J. A. Allen, Desmarest's Spiny Pocket Mouse: Matagalpa; Santa María de Ostuma, June 29, 1966 (KU 106523), Matagalpa; Esquipulas, March 14, 1968 (KU 115409) and March 15, 1968 (KU 115411).

*Hoplopleura ferrisi emphereia* Kim, 1965.

Ex: *Peromyscus mexicanus saxatilis* Merriam, Mexican Deer Mouse: Granada; Finca El Progresso, June 15, 1966 (KU 106848).

*Hoplopleura hirsuta* Ferris, 1916.

Ex: *Sigmodon hispidus griseus* J. A. Allen, Hispid Cotton Rat: Chinandega; Cosigüina, March 4, 1968 (KU 115573), Chinandega; Chichigalpa, July 6, 1964 (KU 98098), Chinandega; San Antonio, July 6, 1966 (KU 106871), Chinandega; Hda. Bellavista, Volcán Casita, July 15, 1966 (KU 106869), Jinotega; Yali, August 4, 1966 (KU 106866), Matagalpa; Finca Tepeyac, August 7, 1964 (KU 98097), Rivas; Moyogalpa, Isla de Ometepe, August 2, 1964 (KU 98109 and 98116), Rivas; Mérida, Isla de Ometepe, April 1968 (KU 115589) and April 8, 1968 (KU 115590, 115592 and 115593), Rivas; Finca Amayo, July 21, 1964 (KU 98119 and 98122), Zelaya; El Recreo, February 25, 1968 (KU 115580) and February 28, 1968 (KU 115582-4), Rivas; Alta Gracias, Isla de Ometepe, April 25, 1968 (KU 115587), Boaco; Santa Rosa, March 21, 1968 (KU 115575).

*Hoplopleura oryzomydis* Pratt and Lane, 1951.

Ex: *Oryzomys alfaroi alfaroi* (J. A. Allen), Alfaro's Rice Rat: Matagalpa; Esquipulas, March 15, 1968 (KU 115417-8).

Ex: *Oryzomys palustris couesi* (Alston), Marsh Rice Rat: Chinandega; El Paraiso, March 1, 1968 (KU 115454) Matagalpa; Santa María de Ostuma, June 29, 1966 (KU 106560), Matagalpa; Esquipulas, March 17, 1968 (KU 115461).

Ex: *Oryzomys palustris richmondi* Merriam, Marsh Rice Rat: Zelaya; El Recreo, July 25, 1966 (KU 106597).

Ex: *Oryzomys palustris* new subspecies, Marsh Rice Rat: Rivas; Alta Gracias, Isla de Ometepe, March 26, 1968 (KU 115476) and March 27, 1968 (KU 115478).

*Neohaematoptinus* species.

Ex: *Sciurus richmondi* Nelson, Richmond's Squirrel: Zelaya; El Recreo, June 19, 1967 (KU 110275); June 21, 1967 (KU 110284); and June 25, 1967 (KU 110295).

*Pterophthirus audax* (Ferris, 1921).

Ex: *Proechimys semispinosus centralis* (Thomas), Tomes' Spiny Rat: Zelaya; El Recreo, June 25, 1967 (KU 110581).