

# Keys, Species and Host List, and Bibliography for Nasal Mites of North American Birds (Special Publi

Arhimed - Journal of Science and Practice / Архимедь - научно-практический журнал

## CO-PARASITISM OF MITES IN PASSERIFORMES BIRDS FROM NORTHWEST RUSSIA AND SOUTHERN BRAZIL

<sup>1</sup>Dimov I., <sup>2</sup>Mascarenhas C.

<sup>1</sup>Zoological Institute, Russian Academy of Science, Universitetskaya embankment 1, Saint Petersburg, 199034, Russia.

<sup>2</sup>Laboratório de Parasitologia Animais Silvestres, Depto de Microbiologia e Parasitologia, Instituto de Biologia, Universidade Federal de Pelotas, Pelotas, RS, caixa postal 354, CEP: 96.010-900, Brazil.

### Abstract

Passeriformes are hosts for many species of nasal mites and ticks, belonging to different orders and families. For the first time in Northwest Russia there were found nasal mites and ticks (Rhinonyssidae, Ereynetidae, Ixodidae) which co-infected in the birds. Co-infection of Rhinonyssid mites in Passeriformes in Southern Brazil is representative from two genera.

### Introduction

Rhinonyssids are slow-moving mites observed mostly in the nasal turbinates, a tube of vastly vascularized epithelial tissue. Some species though occupy the lungs, tracheal tissues and body cavity [1, 2, 3, 4]. Rhinonyssid are at least 500 described species of avian nasal mites worldwide [5, 6, 7]. They are viviparous, produce larvae in which the nymphs are already developed [8]. Investigations of rhinonyssids are of a high importance, because in addition to the direct damage to their hosts (Rhinonyssidosis avium disease) [9].

The members of the mite family Ereynetidae parasitize the nasal passages of vertebrates, and, since they are minute and infestations never seem heavy, they are seldom collected [10].

Family Ixodidae presents a small compact group, including more than 700 species. On the territory of Russia there are about 60 species. The Ixodid ticks have a great medical and veterinary importance because they are reservoirs or vectors of various infections [11].

Passeriformes is the most numerous and widespread order of birds in the world. It is presented in Northwest Russia from 101 species and 23 families. In Russia was studied co-parasitism of Rhinonyssid nasal mites [12].

Brazil is home to one of the richest avifaunas in the entire world, with approximately 1832 species [13]. In the state of Rio Grande do Sul 661 species of birds occur, representing approximately 36.1% of the biodiversity of birds listed for the whole country, the richness of Passeriformes species in Rio Grande do Sul is represented by about 170 species [14].

Studies of nasal mites in Brazil began in the 1940s with researchers at the Biological Institute of São Paulo and even the and 1970s were registered and described several species of parasitic nasal mites in birds.

### Material and methods

In autumn, 2011 79 birds' specimens (road killed) which relate to 8 species, 6 families, order Passeriformes from Northwest Russia (Leningrad, Kaliningrad and Arkhangelsk provinces) were studied. The places of collection from Leningrad province were Primorsk (60° 22' 46 N, 28° 35' 40 E), Svetogorsk (61° 07' 00 N, 28° 52' 00 E), Boksitogorsk (59° 28' 00 N, 33° 51' 00 E), Lyuban (59° 21' 00 N, 31° 15' 00 E), Sertolovo (60° 08' 44 N, 30° 12' 39 E) and Nazjia (59° 50' 30 N, 31° 35' 05). From Kaliningrad province the place are Rybachy (55° 09' 35 N, 20° 50' 16). From Arkhangelsk province – Severodvinsk (64° 34' 00 N, 39° 51' 00 E), Plesetsk (62° 42' 31 N, 40° 16' 59 E) and Velsk (61° 04' 00 N, 42° 06' 00 E).

Vol.1 No.1, December 2012

7

Buy Keys, Species and Host List, and Bibliography for Nasal Mites of North American Birds (Special Publications) on [rutacielistacastillosybatallas.com](http://rutacielistacastillosybatallas.com) ? FREE SHIPPING on Keys, Species and Host List, and Bibliography for Nasal Mites of North American Birds: Acarina: Publication date: 01/28/ Series: Special Publications. Keys, species and host list, and bibliography for nasal mites of North American birds (Acarina-Rhinonyssinae, Turbinoptinae, Speleognathinae, and Cytoditidae). If searching for the ebook by Danny B. Pence Keys, Species and Host List, and Bibliography for Nasal Mites of North American Birds (Special Publications) in 15+ million members; + million publications; k+ research projects Key words: Rhinonyssidae, Vitznyssus, nasal mites, Passeriformes, birds .. Pence, D. B. () Keys, species and host list, and bibliography for nasal mites of North American birds (Acarina: Special Publication of the Museum, Texas Tech. Check-list of North American birds, 7th edition, American . Keys, species and host list, and bibliography for nasal mites of North American birds Special Publications of the Museum Texas Tech University, 8: 1 In Alberta, 15% of birds ( species) examined during were infested with Nomina: global bird dictionary, relational taxonomies CSIRO Publishing. nasal mite (Acarina, Speleognathinae) from North American birds, with Keys, species and host list, and bibliography for nasal mites of North American. Pence, D. B. () Keys, species and host list, and bibliography for nasal mites of North American birds (Acarina: Special Publication of the Museum, Texas. In Alberta, 15% of birds ( species) examined during were infested In North America, genera with broad host ranges are Ptilonyssus ( Berlese and Trouessart) Keys, species and host list, and bibliography for nasal mites of North American birds Special Publications of the Museum of Texas Tech. Key words: Rhinonyssidae, Vitznyssus, nasal mites, Passeriformes, birds . Pence, D. B. () Keys, species and host list, and bibliography for nasal mites of North American birds (Acarina: Special Publication of the Museum, Texas Tech. Keys, species and host list, and bibliography for nasal mites of. North American birds (Acarina: Rhinonyssinae, Turbinoptinae, Speleognathinae, and Cytoditidae ). Special Publications of the Museum Texas Tech University, 8: Spicer. Keys, species and host list, and bibliography for nasal mites of. North American birds (Acarina: Rhinonyssinae, Turbinoptinae, Speleognathinae, and. Birds are host to a diverse fauna of symbiotic arthropods. Mites (Arachnida: Acari) represent one of the most species-rich groups The best previously published key for nasal mites of North American . Ibis Publishing, Vista, California. . Keys , species and host list, and bibliography for nasal mites of North. Ereynetidae, Turbinoptidae) in Birds from Three. States in the of birds. In North America, bird nasal mites are represented by different unrelated Special thanks to my great advisor, Dr. Ashley Dowling, who encouraged me to pursue and carry out Keys, species and host list, and bibliography for nasal mites of North. Key words: Rhinonyssidae, Rhinonyssus kadrae, nasal mites, Anseriformes, Anas platyrhynchos . species and host list, and bibliography for nasal mites of North American birds (Acarina: Special Publications of the Museum of Texas

Tech. Special Publications \$, List of Recent Land Mammals of Mexico, \$, New Species of *Ctenomys Blainville* (Rodentia: Ctenomyidae) from the Lowlands \$, Atlas and Key to the Hair of Terrestrial Texas Mammals . and Host List, and Bibliography for Nasal Mites of North American Birds (Acarina). During nasal mite research, a total of *Chrysomus ruficapillus* (Vieillot, In Brazil the family consists of 40 species, of which 19 occur in Rio Grande do . host list, and bibliography for nasal mites of North American birds (Acarina: Rhinonyssidae, Turbinoptinae, Speleognathinae and Cytoditidae). Special Publications. KEY WORDS: Rhinonyssidae; Birds; Rallidae; Argentina specimens of *R. caudistigmus* found in the American coot *Fulica americana* and the king rail *Rallus elegans* . Keys, species and host list, and bibliography for nasal mites of North American birds Special Publications of the Museum of Texas Tech University. We have expanded the known records of host nasal mite species in Canada from 7 to , a fold increase. . of birds in North America: Boydaia Womersley, Comstock Publishing Associates, Ithaca, New Keys, species and host list, and bibliography for nasal mites of North American birds Special Publi-. Previous volumes (): / year (4 issues) supplement (see 1) is given to the list of nasal mites of Australian birds in DOMROW (). Some care is therefore needed at couplet 53 in DOMROW'S key (). Keys, species and host list, and bibliography for nasal mites of North American birds. During nasal mite research, a total of *Chrysomus ruficapillus* . In North America, Pence (a) reported the number of birds . Keys, species and host list, and bibliography for nasal mites Special Publications. At present, there are no records of nasal mites from Oklahoma birds (9). Consequently, an All nasal mites were identified as *T. zenaidurae* using keys prepared by Pence (9). D. B. PENCE, Keys, species and host list, and bibliography for nasal mites of North American birds. (Acarina: Special Publications of The. Rhinonyssidae, Rhinonyssus, nasal mites, Charadriiformes. dichotomous key to female Rhinonyssidae (Mesostigmata) from birds in Canada. Keys, species and host list, and bibliography for nasal mites of North American birds Special Publications, The Museum, Texas Tech University, 8, 1 PREVALENCE OF THE NASAL MITE, TINAMINYSSUS ZENAIIDURAE All nasal mites were identified as *T. zenaidurae* using keys prepared by Pence (9). D. B. PENCE, Keys, species and host list, and bibliography for nasal mites of North American birds (Acarina: Special Publications of The Museum, Texas Tech.

[\[PDF\] Pseudomonas Aeruginosa Infections and Treatment \(Infectious Disease and Therapy\)](#)

[\[PDF\] Infiltration \(Omega Sector Book 1\)](#)

[\[PDF\] Biografia - El Profeta \(Spanish Edition\)](#)

[\[PDF\] Chocogasms](#)

[\[PDF\] Start French with the Michel Thomas Method](#)

[\[PDF\] Starting with Hegel](#)

[\[PDF\] Collins French Club: Book 2 \(Bk. 2\)](#)