

100 Years' Service to the Nation

*Type Catalogue Series, 2*

THE TYPE SPECIMENS IN THE  
NATIONAL ZOOLOGICAL COLLECTION  
**PHTHIRAPTERA**

S. Sheela

K. Venkataraman

D. Das



**ZOOLOGICAL SURVEY OF INDIA**



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National Zoological Collection  
**PHTHIRAPTERA**

**S. SHEELA**

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*Zoological Survey of India  
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Zoological Survey of India  
Kolkata

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भारत सरकार  
Government of India

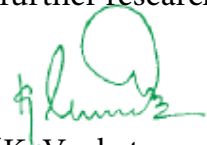
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Ministry of Environment, Forest and Climate Change

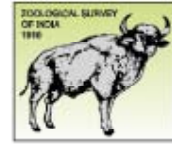


**FOREWORD**

Type is the name bearing specimen representing a group of similar population as well as its habitat. And it is the ultimate solution for a taxonomist to clarify problem regarding the identity of a species. It is an absolute necessity to consult every type species in revisionary studies. Only a few institutions in India are declared as Designated National Repositories, and it is mandatory to deposit the types after describing new species in those Designated Repositories. However, if needed, it is a herculean task to find out the types, from the scattered repositories. Moreover, the majority of Indian Insect fauna, described in the early 19<sup>th</sup> centuries are located in Museums all over the world. Hence, accessing Types of major groups of insects is a lengthy as well as an ineffective effort at times. National Zoological Collections of Zoological Survey of India hosts more or less 20,000 types representing the world fauna; most of them described by Mayr, De Niceville, Brunnetti, Wood Mason and Bingham to name a few. Hence, the specimen in the National Zoological Collection of Zoological Survey of India is the oldest type collection repository of world. Due to the fragile condition of most of the specimens, it is not possible for us to meet constant requests from experts all over the world to provide the specimens on loan for their taxonomic studies. However, to help them to pursue their studies, an initiative is made here to provide the pictures and data associated with every Type specimen.

Phthiraptera is an economically important insect group, not very well known. They are the ectoparasites of birds and mammals and no serious studies on the taxonomy of Phthiraptera are done since 1980s. At this juncture, when epidemics spread by birds and mammals became a threat to the human existence, it may be pertinent to know more about these ectoparasites for which this catalogue with pictures and associated data of Type specimens of Phthiraptera present in our collection is provided here. Hope, this catalogue would be a useful tool for any further research in the field of taxonomy of the associated group.

  
(K. Venkataraman)



भारतीय प्राणी सर्वेक्षण  
ZOOLOGICAL SURVEY OF INDIA

प्राणी विज्ञान भवन  
Prani Vigyan Bhawan

एम. ब्लॉक, न्यु अलीपुर/M-Block, New Alipore,  
कोलकाता/ Kolkata - 700 053



## PREFACE

Commonly called chewing or biting or sucking lice, Phthiraptera are a group of ectoparasites, widely distributed on mammals and birds. Since they are highly host specific, the distribution of their vertebrate hosts reveal the distribution of these micro insects. They are broadly divided into four sub orders: Anoplura (15 families), Ischnocera (2 families), Amblycera (6 families) and Rhynchophthirina (1 family, 1 genus and 4 species parasitic on elephants and warthogs). Lakshminarayana (1986) reported 389 species and 85 genera from India.

The Phthiraptera of India was mainly explored by Quadri Sen, Ansari, Arora, Chopra, Rakshapal, Tandan, Lakshminarayana and Sharma from 1930s to 1980s. Lakshminarayana was the last to publish his work in this series and he opined in his publication in 1986 that the studies on Indian Phthiraptera is inadequate. Collection of the specimens for studies from vertebrate hosts, most of which come under Wild Life Protection Act, is deterrent to approach the group. Still considering its importance in ecosystem as vectors of diseases, it is imperative to revise the group in an extensive manner.

Authors

## **Acknowledgement**

The authors are grateful to Dr. Kailash Chandra, Scientist-F and Officer-in-Charge, Entomology division - A for the constant support and encouragement for the completion of this work. The co-operation by Dr. K. Subramanian, Scientist-D, Sri Amitava Roy and Sri Mridul Purakayastha, ENVIS Centre, and all staff members of Central Entomology Laboratory in various stages of this work are gratefully acknowledged here. Last but not the least we are indebted to Sri Rati Ram Verma, Publication Production Officer for his efforts to bring this work in to its current form.

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## INTRODUCTION

The order Phthiraptera consists of 0.35-11mm range micro insects, which are ectoparasites of Mammals and birds. According to the world checklist on Phthiraptera (Phthiraptera. info.) the order Phthiraptera is divided into four sub orders containing 24 families and more than 5500 species. Major contributions to the diversity of Indian Phthiraptera is provided by Kellogg & Paine 1914 in which 13 species were described from India and adjacent countries and Mishra *et al.* (1972,1973, 1974, 1978, 1981, etc...). Lakshminarayana (1968a, 1968b, 1970, 1972, 1975, 1979, 1980, etc...), explored various aspects of Mallophaga including diversity. In 1982 he published the list of Types of Phthiraptera present in the National Zoological collections, in which he listed 37 species of Mallophaga.

This work is a documentation of the Types of the Order Phthiraptera from the National Zoological Collections of Zoological Survey of India. The document contains the photographs of the specimens, mounted on slides, along with the details like registration number, type category, locality data, host record and original references. The species were arranged as three suborders: Anoplura, Amblycera and Ischnocera. The current status of the species is validated in accordance with world check list on Phthiraptera (Phthiraptera. info.).

There are 61 species documented, of which 22 species became synonyms. 27 species represents Indian fauna and others are from China, Uganda, Brazil, Poland, Myanmar, U.K. etc.

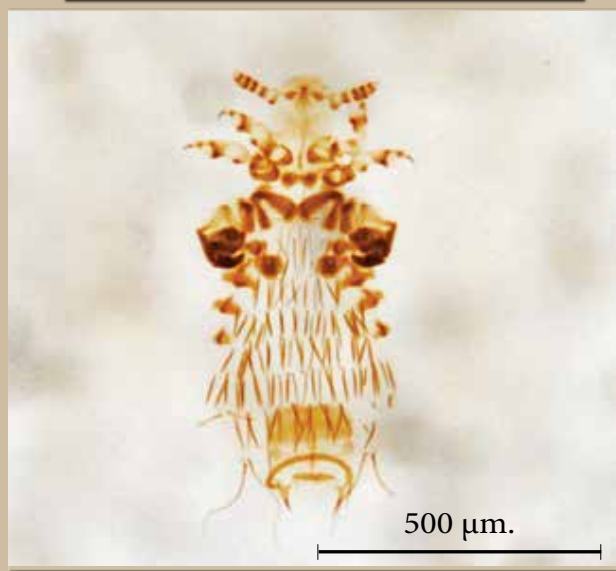
Four slides containing four species of Mallophaga doesn't have specimens inside and three of the slides are marked "Type Lost in flood". One slide is without any remarks. The slides are included here as "Missing Types".

In number of cases slides contains more than one specimens and no single specimen are designated as Holotype. But the slides contain the label of TYPE. So the collective photo and the single photo of specimens with maximum exposed characters are given.

### **The missing Types**

- *Colpocephalum thoracicum* Kellogg and Paine, 1914 (643/H16) – Type lost in flood
- *Goniodes sectus* Kellogg and Paine, 1914 (655/H16) – Type lost in flood (Picture of paratype provided).
- *Menopon monochromateum* (Kellogg and Paine, 1914) (644/H16) – Type lost in flood (Picture of paratype provided).
- *Menopon insoletum* Kellogg and Paine, 1914 (41/H16) – No specimen inside the slide

### *Enderleinellus kelloggi* Ferris, 1916



Registration No. 6886/H2

Family: ENDERLEINELLIDAE

Host: *Sciurus griseus nigripes* Bryant 1889

Type category: **PARATYPE**

Sex: Male and Female

Type Locality: U.S.A: California, Stanford University

Date of collection: Not recorded

Name of collector: G.F. Ferris

Reference: Ferris, 1916. Notes on Anoplura and Mallophaga from mammals with description of four new species and a new variety of Anoplura. *Psyche*, 23: 105.

### *Enderleinellus malaysianus* Ferris, 1920



Registration No. 6893/H2

Family: ENDERLEINELLIDAE

Host: *Sciurus lucas*

Type category: **PARATYPE**

Sex: Male and Female

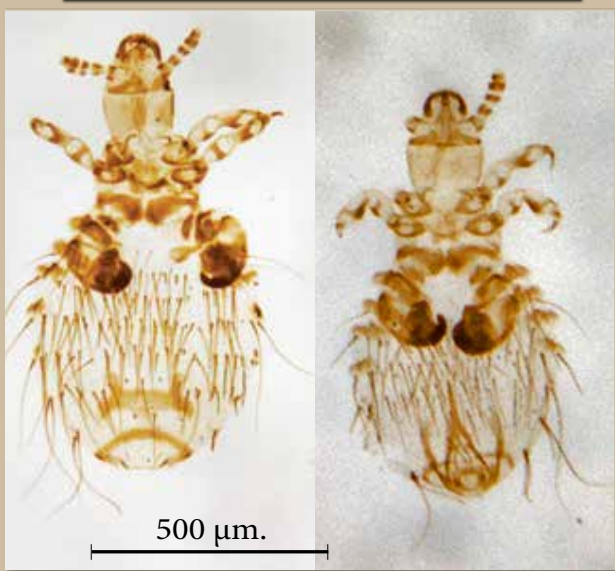
Type Locality: Malaysia: St. Lukes Id., Mergui Archipelago

Date of collection: Not recorded

Name of collector: G.F. Ferris

Reference: Ferris, 1920. Contribution towards a monograph of the sucking lice. Part-I. Stanford Univ. Publ. Univ. Ser. *Biol. Sci.*, 2(1): 12 (1919).

*Enderleinellus marmotae* Ferris, 1920



Registration No. 6888/H2

Family: ENDERLEINELLIDAE

Host: *Marmota monax rufescens*  
Howell, 1914

Type category: **PARATYPE**

Sex: Male and Female

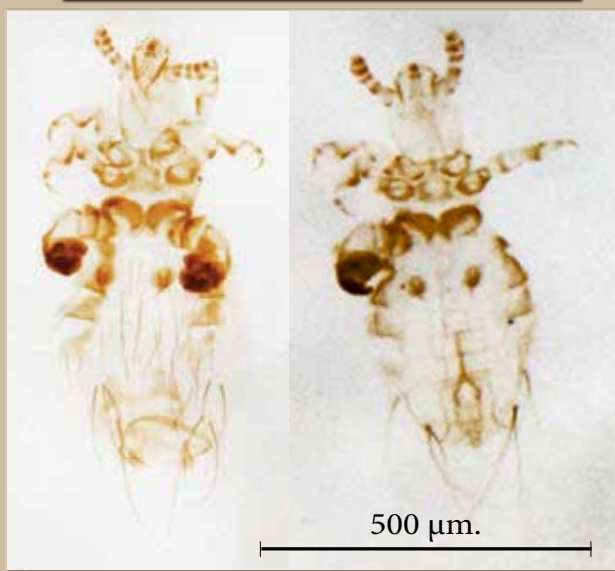
Type Locality: U.S.A: Elk River, Minn.

Date of collection: Not recorded

Name of collector: G.F. Ferris

Reference: Ferris, 1920. Contribution towards a monograph of the sucking lice. Part I. Stanford Univ. Publ. Univ. Ser., *Biol. Sci.*, 2(1): 47 (1919).

*Enderleinellus sciurotamiasis* Ferris, 1920



Registration No. 6910/H2

Family: ENDERLEINELLIDAE

Host: *Sciurotamias davidianus*(Milne-Edwards, 1867)

Type category: **PARATYPE**

Sex: Male and Female

Type Locality: CHINA: Shensi

Date of collection: Not recorded

Name of collector: G.F. Ferris

Reference: Ferris, 1920. Contribution towards monograph of the sucking lice. Part I, Stanford Univ. Publ. Univ. Ser., *Biol. Sci.*, 2 (1): 35 (1919).

***Enderleinellus uncinatus* Ferris, 1916 = *Microphthirus uncinatus* (Ferris, 1916)**



**Registration No. 6894/H2**

Family: ENDERLEINELLIDAE

Host: *Glaucomys sabrinus lascivus* (Bangs, 1899)

Type category: **PARATYPE**

Sex: Male and Female

Type Locality: U.S.A: California, Yosemite National Park

Date of collection: Not recorded

Name of collector: G.F. Ferris

Reference: Ferris, 1916. Notes on Anoplura and Mallophaga from mammals, with description of four new species and a new variety of Anoplura, *Psyche*, 23: 108.

***Haematopinus channabasavannai* Rao, Khuddus and Kuppuswamy, 1977**



**Registration No. 435/H12**

Family: HAEMATOPINIDAE

Host: *Bos indicus* Linneaus, 1758

Type category: **HOLOTYPE**

Sex: Female

Type Locality: INDIA: Mysore, Mandya.

Date of collection: 6.i.1975

Name of collector: N.S.K Rao, C.A. Khuddus and B.M. Kuppuswamy

Reference: Krishna Rao, Khuddus and Kuppuswamy, 1977. *Mysore J. Agric. Sci.*, 11: 589.

Note: 436/H12 (Paratype: Male and Female) , 437/H12 (Paratype: Male and Female) are also recorded in the NZC.



***Haematopinus oliveri* Mishra and Singh, 1978**



**Registration No. 378/H16**

Family: HAEMATOPINIDAE

Host: *Sus salvanius* Hodgson, 1847

Type category: **HOLOTYPE**

Sex: Female

Type Locality: INDIA: Assam, Barnadi

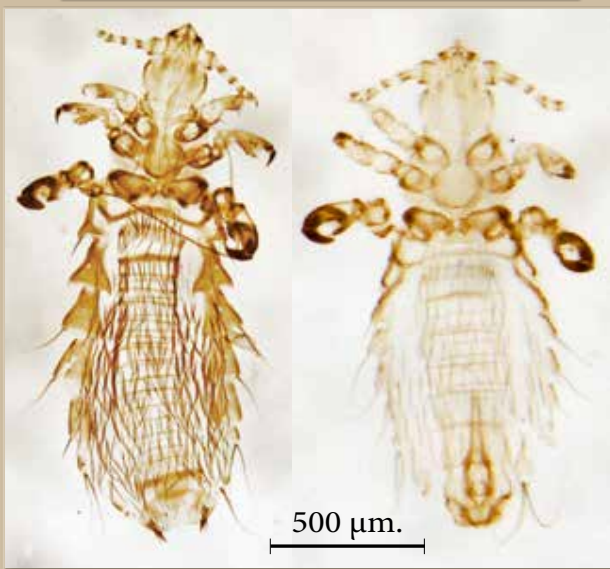
Date of collection: v.1977

Name of collector: W.L.R. Oliver

Reference: Mishra, A. C. and Singh, K. N. 1978. Description of *Haematopinus oliveri* sp. nov. (Anoplura: Haematopinidae) parasitizing *Sus salvanius* in India. Bull. Zool. Surv. India, 1: 167.

Note: 379/H16, 380/H16 (Paratype: Female), 381/H16 –Nymph (associated) are also recorded in the NZC.

***Hoplopleura emarginata* Ferris, 1922 = *Paradoxophthirus emarginata* (Ferris 1922)**



**Registration No. 6898/H2**

Family: HOPLOPLEURIDAE

Host: *Sciurotamias davidianus* (Milne-Edwards, 1867)

Type category: **PARATYPE**

Sex: Male and Female

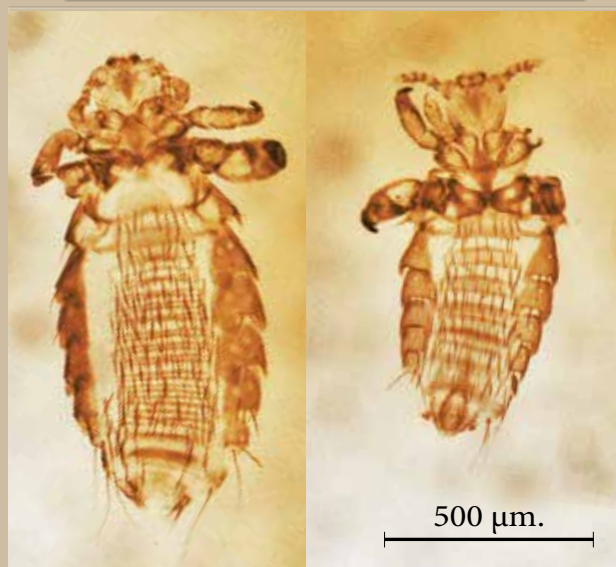
Type Locality: CHINA: Shensi

Date of collection: Not recorded

Name of collector: G.F. Ferris

Reference: Ferris, 1922. Contributions toward a monograph of the sucking lice, Part III, Stanford Univ. Publ. Univ. Ser., *Biol. Sci.*, 2(3): 129.

### *Hoplopleura malaysiana* Ferris, 1921



**REGISTRATION No. 6909/H2**

Family: HOPLOPLEURIDAE

Host: *Epimys vociferans lancavensis*  
Miller, 1900

Type category: **TYPE**

Sex: Male and Female

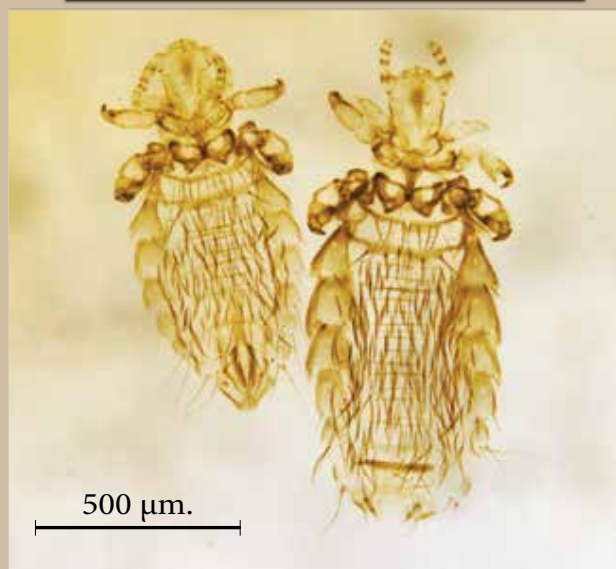
Type Locality: MALAY STRAITS:  
Lankawi Id.

Date of collection: Not recorded

Name of collector: G.F. Ferris

Reference: Ferris, 1921. Contributions  
toward a monograph of the sucking  
lice, Part II, Stanford Univ. Publ. Univ.  
Ser., *Biol. Sci.*, 2(2): 79.

### *Hoplopleura phaiomydis* Ferris, 1921



**Registration No. 6899/H2**

Family: HOPLOPLEURIDAE

Host: *Phaiomys* sp.

Type category: **PARATYPE**

Sex: Male

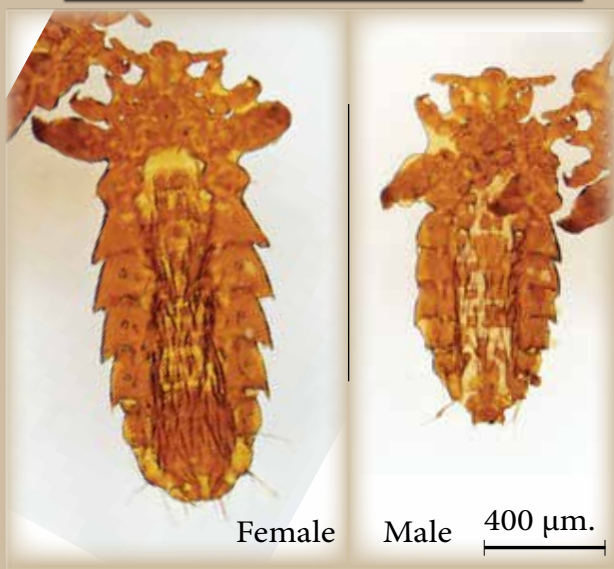
Type Locality: INDIA: East Ladak,  
Kashmir

Date of collection: Not recorded

Name of collector: G.F. Ferris

Reference: Ferris, 1921. Contributions  
toward a monograph of the sucking  
lice, Part II, Stanford Univ. Publ. Univ.  
Ser., *Biol. Sci.*, 2(2): 120.

## *Hoplopleura khandala* Mishra, 1981



Female

Male

400 μm.

### Registration No. 1155/H12

Family: HOPLOPLEURIDAE

Host: *Golunda ellioti* Gray, 1837

Type category: **PARATYPE**

Sex: Male and Female

Type Locality: INDIA: Maharashtra, Khandala

Date of collection: Not recorded

Name of collector: Not recorded

Reference: Mishra, A.C. 1981. The Hoplopleurid lice of the Indian subcontinent (Anoplura: Hoplopleuridae). *Rec. zool. Surv. India, Misc. Publ., Occ. Pap.*, 21: 38-42.

## *Schizophthirus graphiuri* Ferris, 1922



500 μm.

### Registration No. 6896/H2

Family: HOPLOPLEURIDAE

Host: *Graphiurus murinus isolatus* (Heller, 1912)

Type category: **PARATYPE**

Sex: Male and Female

Type Locality: BRITISH EAST AFRICA: Mt. Mbololo

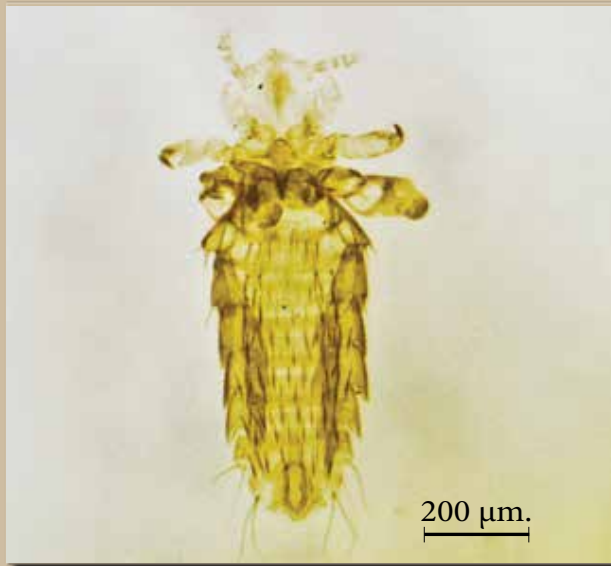
Date of collection: Not recorded

Name of collector: G.F. Ferris

Reference: Ferris, 1922. Contributions toward a monograph of the sucking lice, Part II, Stanford Univ. Publ. Univ. Ser. *Biol. Sci.*, 2(3): 147-148.



*Hoplopleura vandeleuria* Mishra and Bhat, 1972=  
*Hoplopleura silvula* Johnson, 1972



**Registration No. 1152/H12A**

Family: HOPLOPLEURIDAE

Host: *Vandeleuria deracea*

Type category: **PARATYPE**

Sex: Male

Type Locality: INDIA: Mysore, Shimoga

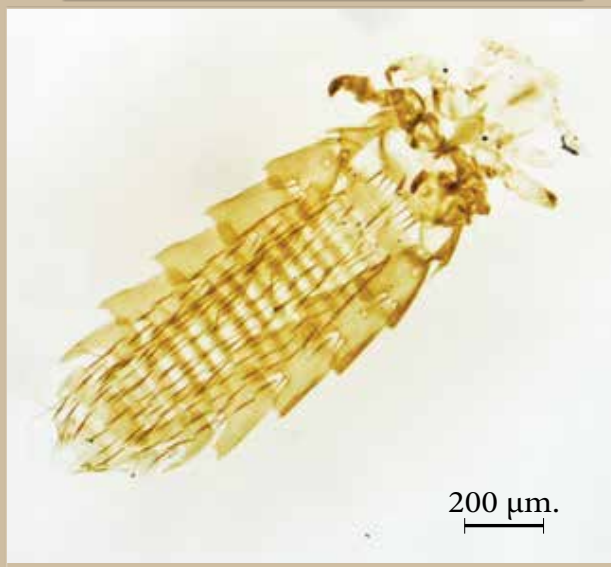
Date of collection: 25.viii.1971

Name of collector: H.R.Bhat

Reference: Mishra, A.C. and Bhat, H. R., 1972. *Hoplopleura vandeleuria* sp. nov. and *Hoplopleura alticola* sp. nov. (Anoplura: Hoplopleuridae) from Indian rodents. *Oriental Insects*, **6**: 521–30.

Johnson, 1972. Two new species of *Hoplopleura* Enderlein from Laotian murids (Anoplura). *Pac. Insects*, **14**: 607–611.

*Hoplopleura vandeleuria* Mishra and Bhat, 1972= *Hoplopleura silvula* Johnson, 1972



**Registration No. 1152/H12B**

Family: HOPLOPLEURIDAE

Host: *Vandeleuria deracea*

Type category: **PARATYPE**

Sex: Female

Type Locality: INDIA: Mysore, Shimoga

Date of collection: 25.viii.1971

Name of collector: H.R. Bhat

Reference: Mishra, A.C. and Bhat, H.R., 1972. *Hoplopleura vandeleuria* sp. nov. and *Hoplopleura alticola* sp. nov. (Anoplura: Hoplopleuridae) from Indian rodents. *Oriental Insects*, **6**: 521–30.

Johnson, 1972. Two new species of *Hoplopleura* Enderlein from Laotian murids (Anoplura). *Pac. Insects*, **14**: 607–611.

***Hoplopleura himalayana* Mishra, Kulkarni and Bhat, 1974**



**Registration No. 1148/H12**

Family: HOPLOPLEURIDAE

Host: *Apodemus flavicollis* (Melchior, 1834)

Type category: **PARATYPE**

Sex: Male and Female

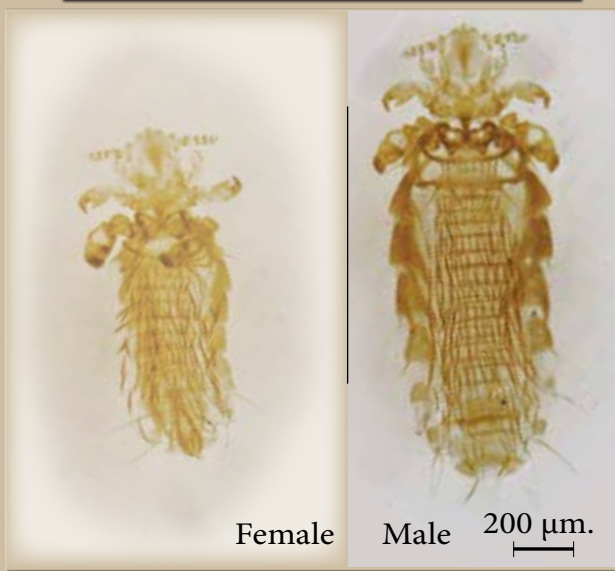
Type Locality: INDIA: H.P., Kothi

Date of collection: 2.x.1967

Name of collector: S.M. Kulkarni

Reference: Mishra, A.C., Kulkarni, S.M. and Bhat, H.R. 1974. *Hoplopleura himalayana*, sp. nov. (Anoplura: Hoplopleuridae) parasitizing *Apodemus flavicollis* in the Himalayan region of India. *Oriental Insects*, 7(4): 501-506.

***Hoplopleura alticola* Mishra and Bhat, 1972**



**Registration No. 1154/H12**

Family: HOPLOPLEURIDAE

Host: *Alticola roylei* Gray, 1842

Type category: **PARATYPE**

Sex: Male and Female

Type Locality: INDIA: H.P., Martoli

Date of collection: 19.ix.1967

Name of collector: H.R. Bhat

Reference: Mishra, A.C. and Bhat, H. R., 1972. *Hoplopleura vandeleuria* sp. nov. and *Hoplopleura alticola* sp. nov.. (Anoplura: Hoplopleuridae) from Indian rodents. *Oriental Insects*, 6: 521-30.

*Hoplopleura singharh* Mishra, Bhat and Kulkarni, 1972



Registration No. 1149/H12

Family: HOPLOPLEURIDAE

Host: *Mus* sp.

Type category: **PARATYPE**

Sex: Male

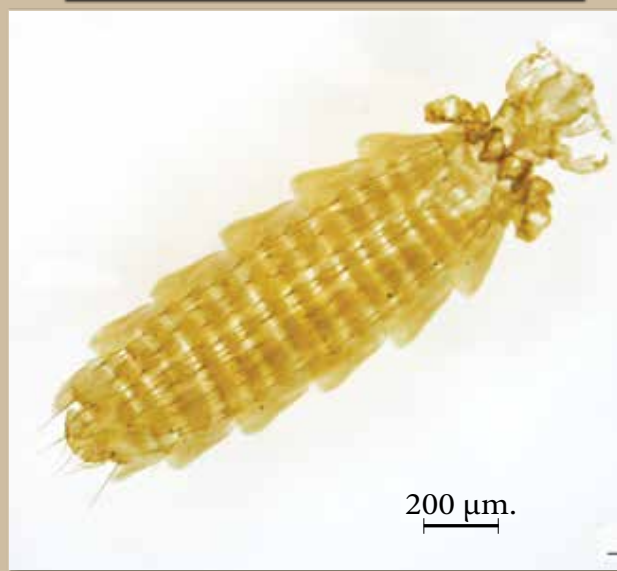
Type Locality: INDIA: Poona, Karwadi

Date of collection: 20.i.1971

Name of collector: A.C.M.

Reference: Mishra, A.C., Bhat, H.R. and Kulkarni, S.M. 1972. *Hoplopleura ramgarh* sp. Nov. and *Hoplopleura singharh* sp. nov. (Anoplura: Hoplopleuridae) parasitizing *Mus* pp. (Rodentia: Muridae) in India. *Parasitology*, **65**: 11-21.

*Hoplopleura singharh* Mishra, Bhat and Kulkarni, 1972



Registration No. 1151/H12

Family: HOPLOPLEURIDAE

Host: *Mus* sp.

Type category: **PARATYPE**

Sex: Female

Type Locality: INDIA: Poona, Sinhgarh

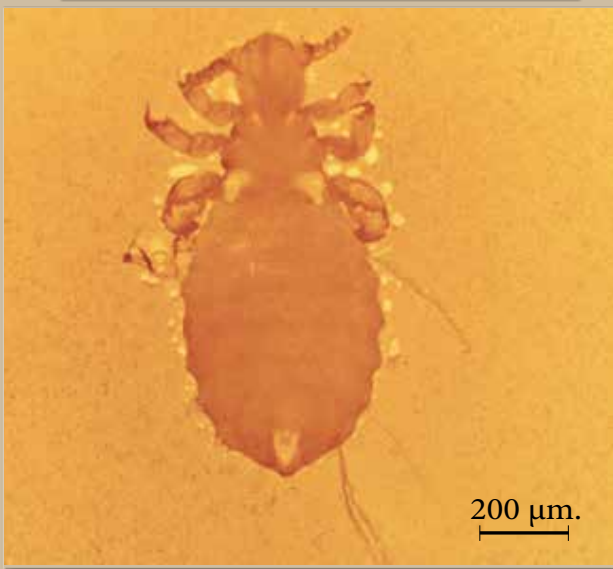
Date of collection: 16.x.1970

Name of collector: A.C.M.

Reference: Mishra, A.C., Bhat, H.R. and Kulkarni, S.M. 1972. *Hoplopleura ramgarh* sp. Nov. and *Hoplopleura singharh* sp. nov. (Anoplura: Hoplopleuridae) parasitizing *Mus* pp. (Rodentia: Muridae) in India. *Parasitology*, **65**: 11-21.



***Polyplax hurrianicus* Mishra, 1981**



**Registration No. 1161/H12**

Family: POLYPLACIDAE

Host: *Meriones hurrianae* (Jerdon, 1867)

Type category: **PARATYPE**

Sex: Male

Type Locality: INDIA: Gujarat, Wad Wali Wai, Banni Kutch

Date of collection: 21.iii.1960

Name of collector : H. Trapido

Reference: Mishra, 1981. The Hoplopleurid lice of the Indian subcontinent (Anoplura: Hoplopleuridae). *Rec. zool. Surv. India, Misc. Publ., Occas. Pap.*: 21.

***Polyplax hurrianicus* Mishra, 1981**



**Registration No. 1162/H12**

Family: POLYPLACIDAE

Host: *Meriones hurrianae* (Jerdon, 1867)

Type category: **PARATYPE**

Sex: Female

Type Locality: INDIA: Gujarat, Wad Wali Wai, Banni Kutch

Date of collection: 21.iii.1960

Name of collector: H. Trapido.

Reference: Mishra, A.C. 1981. The Hoplopleurid lice of the Indian subcontinent (Anoplura: Hoplopleuridae). *Rec. zool. Surv. India, Misc. Publ., Occ. Pap.*: 21.

***Polyplax cutchicus* Mishra and Kaul, 1973**



**Registration No. 1157/H12**

Family: POLYPLACIDAE

Host: *Rattus (Cremnomys) cutchicus* (Wroughton, 1912)

Type category: **PARATYPE**

Sex: Male and Female

Type Locality: INDIA: Rajasthan, Baneshwar, Sirohi

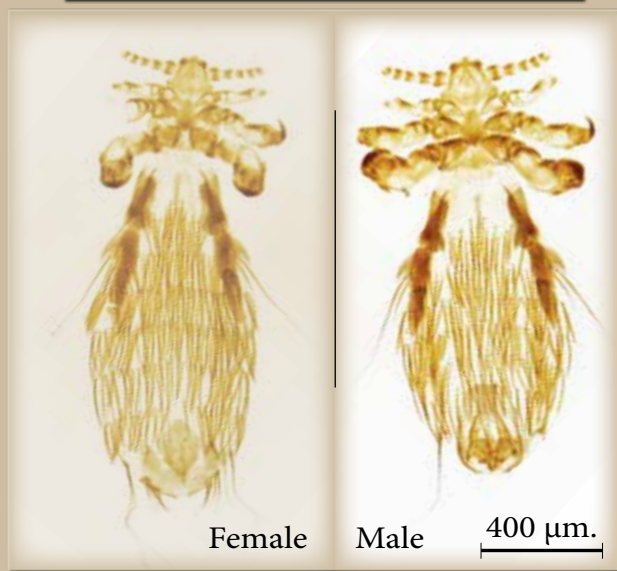
Date of collection: 16.xi.1971

Name of collector: Not recorded

Reference: Mishra, A.C. and Kaul, H.N. 1973. *J. Med. Ent.*, **10**(1): 43-46.

Note: 1158/H12 (Paratype-Female) also recorded in the N.Z.C.

***Fahrenholzia microcephala* Ferris, 1922**



**Registration No. 159/H16**

Family: POLYPLACIDAE

Host : *Liomys irroratus canus* Merriam, 1902

Type category : **PARATYPE**

Sex: Male and Female

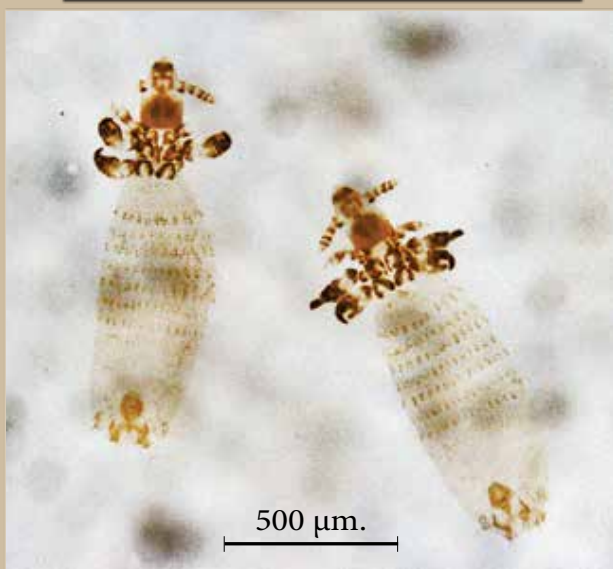
Type Locality: Illegible

Date of collection: 17.ii.1966

Name of collector: Illegible

Reference: Ferris, G.F. 1922. Contributions toward a monograph of the sucking lice, Part III, Stanford Univ. Publ. Univ. Ser., *Biol. Sci.*, **2**(3): 134-178.

***Neolinognathus praelautus* Ferris, 1922**



**Registration No. 6907/H2**

Family: NEOLINOGNATHIDAE

Host: *Elephantulus pulcherphacus*

Type category: **PARATYPE**

Sex: Female

Type Locality: BRITISH EAST AFRICA: Lime Spring

Date of collection: Not recorded

Name of collector: G.F. Ferris

Reference: Ferris, 1922. Contributions toward a monograph of the sucking lice, Part III, Stanford Univ. Publ. Univ. Ser. *Biol. Sci.*, 2(3): 169.

***Gliricola porcelli* (Schrank), 1781 = *Gliricola (Gliricola) porcelli* (Schrank), 1781**



**Registration No. 123/H16**

Family: GYROPIDAE

Host : *Cavia porcellus* Linnaeus, 1758

Type category: **NEOPARATYPE**

Sex: Male

Type Locality: BRAZIL: Rio de Janeiro

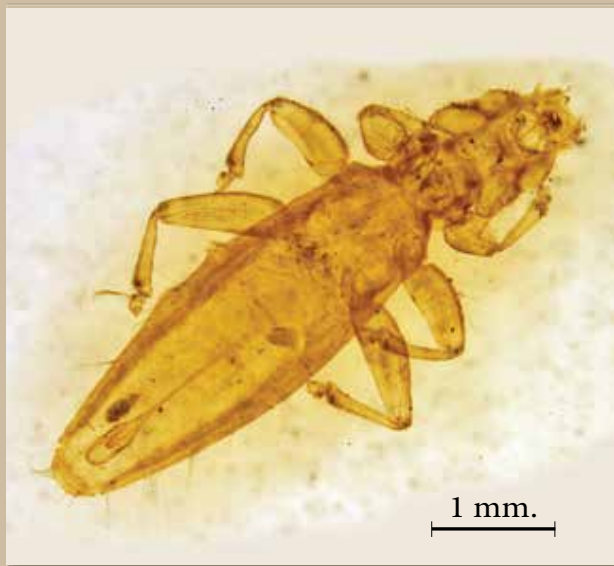
Date of collection: Not recorded

Name of collector: F.L.W. 82

Reference: Schrank, F. v. P. 1781. *Enumeratio insectorum Austriae indigenorum*, (Pediculus) 500, pl.1. fig.1.



***Eulaemobothrion biswasi* K.V. Lakshminarayana, 1967 =  
*Laemobothrion (Eulaemobothrion) biswasi* Lakshminarayana 1967**



**Registration No. 659/H16**

Family: LAEMOBOTHRIIDAE

Host : *Porphyrio poliocephalus* Latham, 1801

Type category: **HOLOTYPE**

Sex: Male

Type Locality: INDIA: W.B., Nalbani (Salt Lake)

Date of collection: 4.i.1967

Name of collector: K.V. Lakshminarayana

Reference: Lakshminarayana, K.V. 1967. Mallophaga Indica I. On the status of *Eulaemobothrion* Ewing, with description of a new species from India. *Oriental Ins.*, 1(3 and 4): 257-264.

***Laemobothrion circi* (Fourcroy), 1785 =  
*Laemobothrion (Eulaemobothrion) maximum* Scopoli 1763**



**Registration No. 118/H16**

Family: LAEMOBOTHRIIDAE

Host: *Circus aeruginosus* Linnaeus, 1758

Type category: **NEOPARATYPE**

Sex: Male and Female

Type Locality: KENYA: Naivasha

Date of collection: iii.1939

Name of collector: Not recorded

Reference: Fourcroy, A.F. 1785. *Entomologia parisiensis; sive catalogus insectorum quae in agro parisiensi reperiuntur; secundum methodum Geoffroeanam in sectiones, genera and species distributus: cui addita sunt nomina trivialia and fere trecentae novae species*, 518.

Scopoli, J.A. 1763. *Entomologia carniolica exhibens insecta carnioliae indigena et distributa in ordines, genera, species, varietates*, *Pediculus*: 381-386.

*Allocolpocephalum frugilegi* Ztotorzycka, 1964 =  
*Colpocephalum fregili* Denny 1842



**Registration No. 388/H16**

Family: MENOPONIDAE

Host :*Corvus frugilegus* Linnaeus, 1758

Type category : **PARATYPE**

Sex: Male

Type Locality: POLAND: Opatowice

Date of collection: 26.xi.1951

Name of collector: Mrs. J. Ztotorzycka

Reference: Ztotorzycka, 1964.  
*Actaparasit. Pol.*, 12: 186.

Denny, H. 1842. *Monographia anoplurorum Britanniae*. xxvi+262

*Allocolpocephalum frugilegi* Ztotorzycka, 1964 =  
*Colpocephalum fregili* Denny 1842



**Registration No. 389/H16**

Family: MENOPONIDAE

Host :*Corvus frugilegus* Linnaeus, 1758

Type category: **PARATYPE**

Sex: Female

Type Locality: POLAND: Opatowice

Date of collection : 26.xi.1951

Name of collector: Mrs. J. Ztotorzycka

Reference: Ztotorzycka, 1964.  
*Actaparasit. Pol.*, 12: 186.

Denny, H. 1842. *Monographia anoplurorum Britanniae*, xxvi+262



***Colpocephalum thoracicum* Kellogg and Paine, 1914**



**Registration No. 643/H16**

Family: MENOPONIDAE

Host : *Pavo muticus* Linnaeus 1766

Type category: **TYPE**

Sex : Female

Type Locality: BURMA

Date of collection: Not recorded

Name of collector: V.L. Kellogg and J.H. Paine

Reference: Kellogg, V.L. and Paine, J.H. 1914. Mallophaga from birds (mostly Corvidae and Phasianidae) of India and neighbouring countries. *Rec. Indian Mus.*, **10**: 230.

Remarks: No specimen on slide.

***Dennyus minor* (Kellogg and Paine), 1914 =  
*Dennyus (Dennyus) hirundinis* Linnaeus, 1761**



**Registration No. 641/H16**

Family: MENOPONIDAE

Host : *Cypselus affinis* Gray, 1832

Type category: **LECTOTYPE**

Sex: Female

Type Locality: INDIA: W.B., Calcutta

Date of collection: 12.iv.1910

Name of collector: N. Annandale

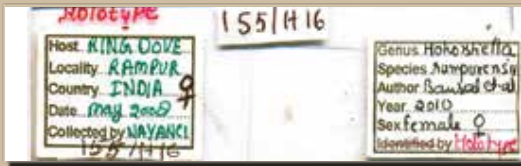
Reference: Kellogg V.L. and Paine J.H. (1914). Mallophaga from birds (mostly Corvidae and Phasianidae) of India and neighbouring countries. *Rec. Indian Mus.*, **10**: 242.

Linnaeus, C. 1761. *Fauna suecica sistens animalia sueciae regni: mammalia, aves, amphibia, pisces, insecta, vermes*, [chewing lice: 475-479].

Note: **642/16**, **65/16** (Paralectotype: Female) are also recorded in the NZC.



### *Hohorstiella rampurensis* Bansal 2010



#### Registration No. 155/H16

Family: MENOPONIDAE

Host: *Streptopelia decaocto decaocto* (Frivaldszky, 1838)

Type category: HOLOTYPE

Sex: Female

Type Locality: INDIA: U.P., Rampur

Date of collection: v.2008

Name of collector: Nayanci

Reference: Bansal, N., Singh, P., Ahmad, A., Arya, G. and Saxena, A.K. 2010. A new species of *Hohorstiella* (Phthiraptera: Amblycera: Menoponidae) from Indian Ring Dove, *Streptopelia decaocto decaocto* (Columbiformes). Poster Presentation in Fourth International Conference on Phthiraptera (ICP4)

### *Hohorstiella rampurensis* Bansal 2010



#### Registration No. 156/H16

Family: MENOPONIDAE

Host: *Streptopelia decaocto decaocto* (Frivaldszky, 1838)

Type category: ALLOTYPE

Sex: Male

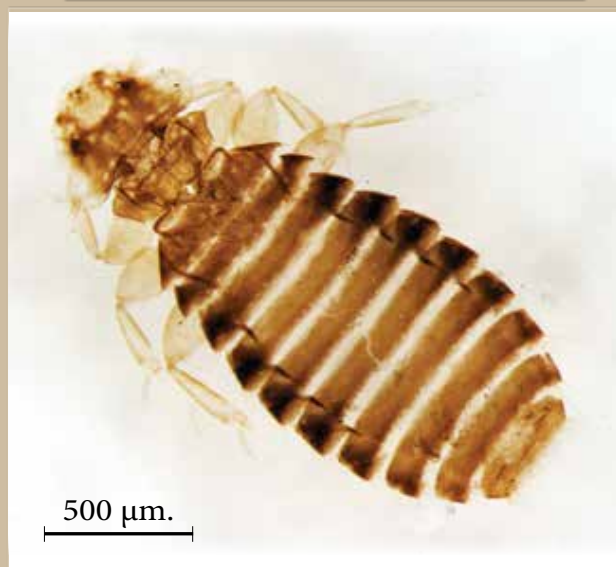
Type Locality: INDIA: U.P., Rampur

Date of collection: v.2008

Name of collector: Nayanci

Reference: Bansal, N., Singh, P., Ahmad, A., Arya, G. and Saxena, A.K. 2010. A new species of *Hohorstiella* (Phthiraptera: Amblycera: Menoponidae) from Indian Ring Dove, *Streptopelia decaocto decaocto* (Columbiformes). Poster Presentation in Fourth International Conference on Phthiraptera (ICP4)

### *Menacanthus palmai* Ahmad, 2010



#### Registration No. 153/H16

Family: MENOPONIDAE

Host: *Coturnix coromandelica* (Gmelin, 1789)

Type category: **HOLOTYPE**

Sex: Female

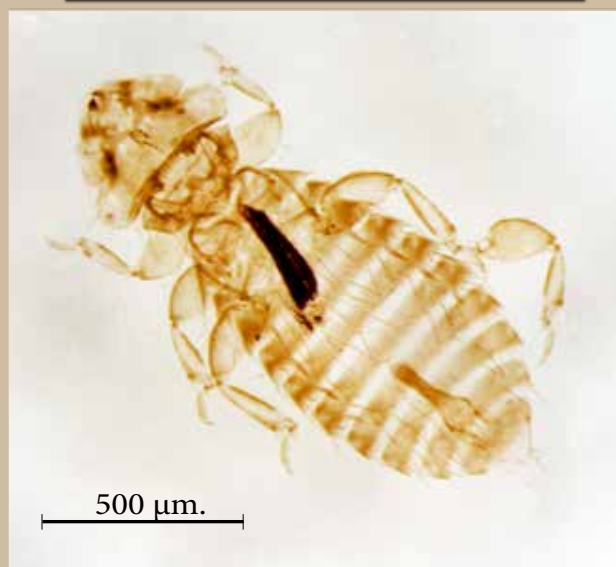
Type Locality: INDIA: U.P., Rampur

Date of collection: ii.2008

Name of collector: Nayanci

Reference: Ahmad, A., Bansal, N., Khan, V., Arya, G. and Saxena, A.K. 2010. *Menacanthus palmai*, a new species of chewing louse (Menoponidae: Amblycera: Phthiraptera) from the Rain Quail, *Coturnix coromandelica* (Galliformes). *Journal of Parasitic Diseases* 37(2): 276-280.

### *Menacanthus palmai* Ahmad, 2010



#### Registration No. 154/H16

Family: MENOPONIDAE

Host: *Coturnix coromandelica* (Gmelin, 1789)

Type category: **ALLOTYPE**

Sex: Male

Type Locality: INDIA: U.P., Rampur

Date of collection: ii.2008

Name of collector: Nayanci

Reference: Ahmad, A., Bansal, N., Khan, V., Arya, G. and Saxena, A.K. 2010. *Menacanthus palmai*, a new species of chewing louse (Menoponidae: Amblycera: Phthiraptera) from the Rain Quail, *Coturnix coromandelica* (Galliformes). *Journal of Parasitic Diseases* 37(2): 276-280.



***Menopon insoletum* Kellogg and Paine, 1914 =  
*Myrsidea insolita* Kellogg and Paine 1914**



**Registration No. 41/H16**

Family: MENOPONIDAE

Host: *Corvus insoletus* Hume, 1874

Type category: **TYPE**

Sex: Male and Female

Type Locality: BURMA: Mergui

Date of collection: Not recorded

Name of collector: V.L.K. and J.H.P.

Reference: Kellogg V.L. and Paine J.H. (1914). Mallophaga from birds (mostly Corvidae and Phasianidae) of India and neighbouring countries. *Rec. Indian Mus.*, **10**: 238.

Note: [No specimen inside the slide]

***Menacanthus monochromateum* (Kellogg and Paine, 1914) =  
*Menacanthus eurysternus* Burmeister 1838**



**Registration No. 56/H16**

Family: MENOPONIDAE

Host: *Pyrrhocorax graculus* (Linnaeus, 1766)

Type category: **LECTOTYPE**

Sex: Female

Type Locality: CHINA: Tibet (Khambajong), Khamba Dzang

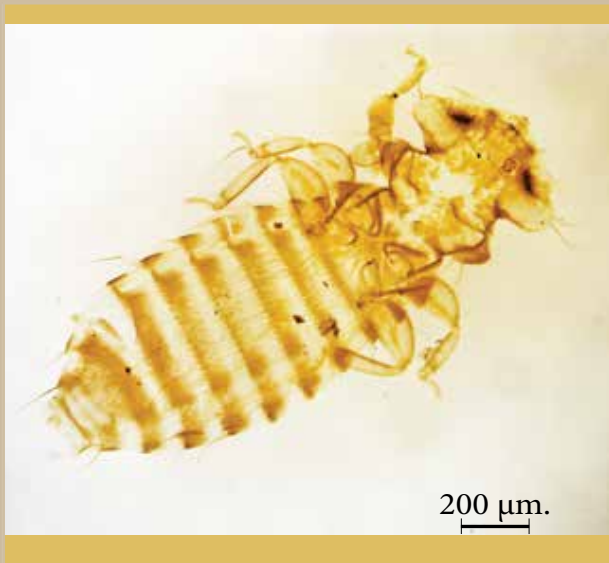
Date of collection: 1914

Name of collector: V.L. Kellogg and J.H. Paine

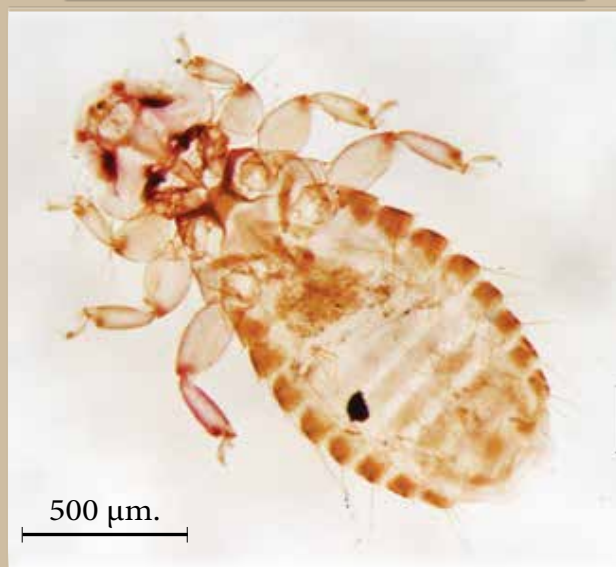
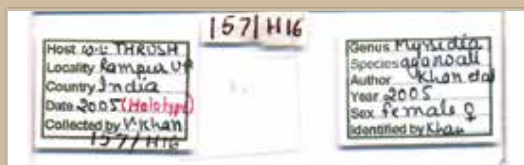
Reference: Kellogg V.L. and Paine J.H. (1914). Mallophaga from birds (mostly Corvidae and Phasianidae) of India and neighbouring countries. *Rec. Indian Mus.*, **10**: 217-243.

Burmeister, H. 1838. Mallophaga Nitzsch. **2**: 418-443.

Note: Type Regd. No.:644/16 lost.



### *Myrsidea agarwali* Khan, 2009



#### Registration No. 157/H16

Family: MENOPONIDAE

Host: *Garrulax lineatus lineatus*

Type category: **HOLOTYPE**

Sex: Female

Type Locality: INDIA: U.P., Rampur

Date of collection: 2005

Name of collector: V. Khan

Reference: Khan, V., Bansal, N., Sychra, O. and Saxena, A.K. 2009. *Myrsidea agarwali* sp. n. (Phthiraptera: Menoponidae) from *Garrulax lineatus lineatus* (Passeriformes: Timaliidae). *Biologia*, **64**(4): 745-747.

Note: 158/H16 (Paratype: Female) is also recorded in the N.Z.C.

### *Myrsidea hopkinsi* Bedford, 1939



#### Registration No. 114/H16

Family: MENOPONIDAE

Host: *Corvullur albicollis* Latham, 1790

Type category: **PARATYPE**

Sex: Male and Female

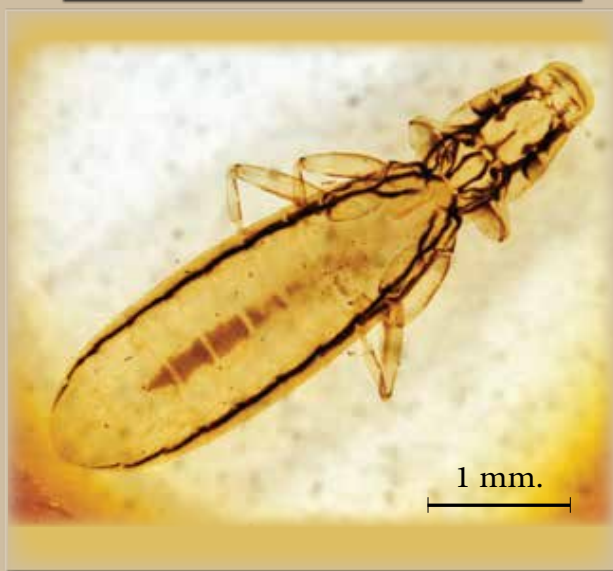
Type Locality: UGANDA: Mbale, Bugwere

Date of collection: 4.vi.1936

Name of collector: G.H.E. Hopkins

Reference: Bedford, G. A. H. 1939. Notes on Menoponidae (Mallophaga) with descriptions of new genera and species. *Onderstepoort J. vet. Sci. Anim. Ind.*, **12**: 132.

***Ricinus dolichocephalus* Scopoli, 1763**



**Registration No. 122/H16**

Family: RICINIDAE

Host: *Oriolus o. oriolus* Linnaeus, 1758

Type category: NEOPARATYPE

Sex: Female

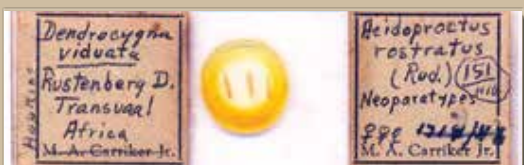
Type Locality: CYPRUS: Near Limassol

Date of collection: 20.v.1946

Name of collector: G. Mavromowstakis

Reference: Scopoli, J.A. 1763. *Entomologia carniolica exhibens insecta carnioliae indigena et distributa in ordines, genera, species, varietates*, ([Pediculus), 382.

***Acidoprotus rostratus* Rudow, 1866**



**Registration No. 151/H16**

Family: PHILOPTERIDAE

Host: *Dendrocygna viduata* Linnaeus, 1766

Type category: NEOPARATYPE

Sex: Female

Type Locality: S. AFRICA: Transvaal

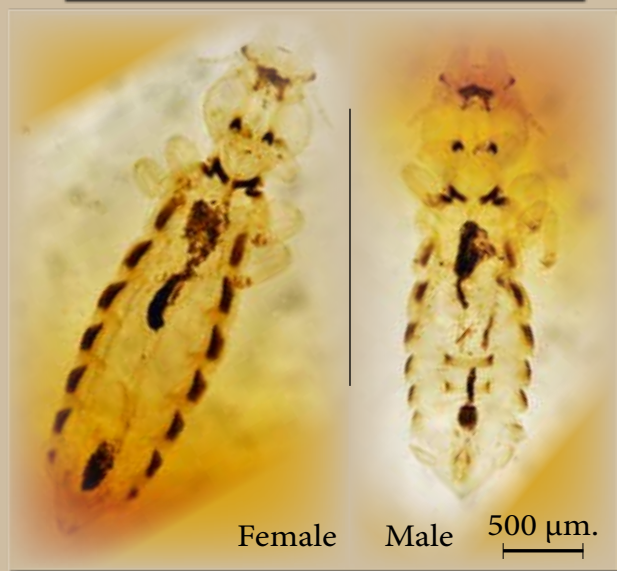
Date of collection: Not recorded

Name of collector: G.H.E. Hopkins

Reference: Rudow, F. 1866. *Charakteristik neuer Federlinge. (Ornithobius)*, *Z. Ges. Naturw.*, 27: 465.



*Acidoproctus taschenbergi* Hopkins, 1938



Registration No. 152/H16

Family: PHILOPTERIDAE

Host: *Chenalopex aegyptiacus* Linnaeus

Type category: **PARATYPE**

Sex : Male and Female

Type Locality: UGANDA: Nsadi Island

Date of collection : ix.1932

Name of collector : T.W. Chorley

Reference: Hopkins, G.H.E. 1938. Stray notes on Mallophaga. *Ann. Mag. Nat. Hist.*, (11) 2: 196.

*Ardeicola ciconiae* (Linnaeus), 1758



Registration No. 154/H16

Family: PHILOPTERIDAE

Host: *Ciconia ciconia* Linnaeus, 1758

Type category: **NEOPARATYPE**

Sex: Male and Female

Type Locality: UGANDA: Bombo

Date of collection: 13.iii.1934

Name of collector: A.W. Williams

Reference: (Linnaeus), 1758. *Syst. Nat.* ed., (Chewing lice), 1: 613.

**Cummingsiella ovalis Scopoli, 1763**



**Registration No. 162/H16**

Family: PHILOPTERIDAE

Host: *Numenius a. arquata* Linnaeus, 1758

Type category : NEOPARATYPE

Sex: Male and Female

Type Locality : BRITAIN: Hoy Qrkney Is.

Date of collection: 1.ix.1938

Name of collector: R. Meinertzhagen

Reference: Scopoli, J. A. 1763. *Entomologia carniolica exhibens insecta carnioleae indigena et distribute in ordines, genera, species, varietates (pediculus): 384*

**Goniodes hopkinsi Clay, 1940**



**Registration No. 168/H16**

Family: PHILOPTERIDAE

Host : *Guttera edouardi sethsmithi* White, 1943

Type category : PARATYPE

Sex: Female

Type Locality: UGANDA: Budongo

Date of collection: Not recorded

Name of collector: Not recorded

Reference: Clay, T. 1940. *Genera and species of Mallophaga occurring on gallinaceous hosts Part II. Goniodes. Proc. zool. Soc. Lond., (B), 110: 26.*



***Goniodes sectus* Kellogg and Paine, 1914**



**Registration No. 654/H16**

Family: PHILOPTERIDAE

Host: *Catreus wallichii* (Hardwicke, 1827)

Type category: **PARALECTOTYPE**

Sex: Female

Type Locality: INDIA: W.B., Darjeeling

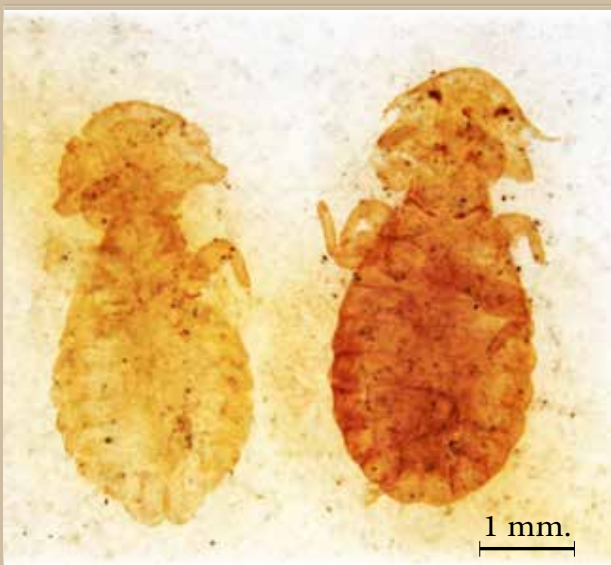
Date of collection: Not recorded

Name of collector: V.L. Kellogg and J.H. Paine

Reference: Kellogg, V.L. and Paine, J.H. 1914. Mallophaga from birds (mostly Corvidae and Phasianidae) of India and neighbouring countries, *Rec. Indian Mus.*, **10**: 217-243.

Note: Type Slide empty.

***Goniodes megaceros* Kellogg and Paine, 1914**



**Registration No. 800/H16**

Family: PHILOPTERIDAE

Host: *Lophophorus impejanus* Latham, 1790

Type category: **NEOPARATYPE**

Sex: Female

Type Locality: INDIA: Calcutta

Date of collection: 23.v.1914

Name of collector: Not recorded

Reference: Kellogg V.L. and Paine J.H. (1914). Mallophaga from birds (mostly Corvidae and Phasianidae) of India and neighbouring countries. *Rec. Indian Mus.*, **10**: 227.

***Goniodes neumannia* Kellogg and Paine, 1914 =  
*Pachyskelotes orthopleurus* Giebel 1874**



**Registration No. 7/H16**

Family: PHILOPTERIDAE

Host: *Argusianus argus* Linnaeus, 1766

Type category: **LECTOTYPE**

Sex: Male and Female

Type Locality: Not recorded

Date of collection :Not recorded

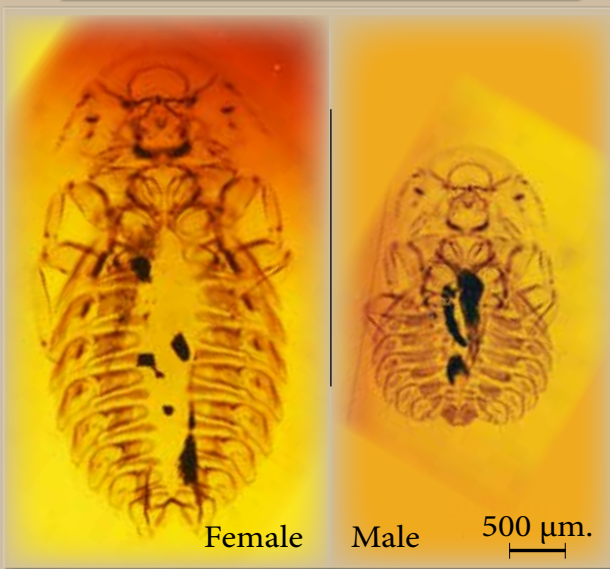
Name of collector: Not recorded

Reference: Kellogg V.L. and Paine J.H. (1914). Mallophaga from birds (mostly Corvidae and Phasianidae) of India and neighbouring countries. *Rec. Indian Mus.*, **10**: 221.

Giebel, C. 1874. *Insecta epizoa*. Leipzig, xiv=308.

Note: **8/16** (Lectotype: Male) is also recorded in the NZC.

***Goniodes perlatus* Clay, 1940 = *Goniodes numidae* Mjoberg 1910**



**Registration No. 169/H16**

Family: PHILOPTERIDAE

Host: *Numida meleagris major* W. L. Sclater, 1924

Type category: **PARATYPE**

Sex: Male and Female

Type Locality: UGANDA: Busoga

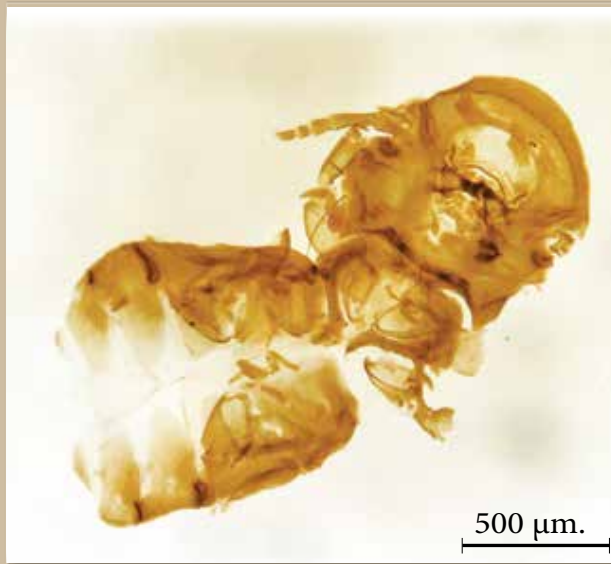
Date of collection: 2.viii.1937

Name of collector: Not recorded

Reference: Clay, T. 1940. Genera and species of Mallophaga occurring in gallinaceous hosts. Part II, *Goniodes*. *Proc. zool. Soc. Lond.*, (B), **110**: 30.

Mjoberg, E. 1910. Studien uber mallophagen und Anopluren. *Ark. F. Zool.* **6**: 1-269.

***Goniocotes indicus* Kellogg and Paine, 1914 =  
*Gonodes indicus* Kellogg and Paine, 1914**



**Registration No. 652/H16**

Family: PHILOPTERIDAE

Host: *Arboricola ruficularis* Blyth, 1849

Type category: **HOLOTYPE**

Sex: Male

Type Locality : INDIA: Assam,  
E.Himalaya, Jorpukri (7600 ft.)

Date of collection: Not recorded

Name of collector: N. Annandale

Reference: Kellogg V.L. and Paine J.H.  
(1914). Mallophaga from birds (mostly  
Corvidae and Phasianidae) of India and  
neighbouring countries. *Rec. Indian  
Mus.*, **10**: 218.

***Goniocotes mayuri* K.V. Lakshminarayana and Emerson, 1971**



**Registration No. 669/H16**

Family: PHILOPTERIDAE

Host : *Pavo cristatus* Linnaeus, 1758

Type category: **NEOPARATYPE**

Sex : Male

Type Locality: INDIA: Assam, Goalpara  
Dist., Jamduar

Date of collection: 24.iii.1957

Name of collector: B. K. Tikader

Reference: L akshminarayana, K.V.  
and Emerson, K. C. 1971. Mallophaga  
Indica VI. Notes on *Goniocotes*  
(Mallophaga: Philopteridae) found on  
*Pavo cristatus* with description of a new  
species. *Oriental Ins.*, **5**(1): 98.



***Goniocotes nirmoides* Kellogg and Paine, 1914 =  
*Lagopoecus heterotypus*, Megnin, 1880**



**Registration No. 656/H16**

Family: PHILOPTERIDAE

Host: *Lophophorus impejanus* Latham, 1790

Type category: **LECTOTYPE**

Sex: Male and Female

Type Locality: INDIA: W.B., Calcutta

Date of collection: Not recorded

Name of collector: Not recorded

Reference: Kellogg V.L. and Paine J.H. (1914). Mallophaga from birds (mostly Corvidae and Phasianidae) of India and neighbouring countries. *Rec. Indian Mus.*, **10**: 219.

Megnin, P. 1880. Les parasites et les maladies parasitaires chez l'homme, les animaux domestiques et les animaux sauvages avec lesquels ils peuvent être en contact. *Insectes, Arachnides, Crustaces, chewing lice*:72-102.

***Lagopoecus nirmoides* (Kellogg and Paine 1914) =  
*Lagopoecus heterotypus* Megnin, 1880**



**Registration No. 657/H16**

Family: PHILOPTERIDAE

Host: *Lophophorus impejanus* (Latham, 1790)

Type category: **PARALECTOTYPE**

Sex: Female

Type Locality: INDIA: W.B., Calcutta

Date of collection: 1914

Name of collector: Not recorded

Reference: Megnin, P. 1880. Les parasites et les maladies parasitaires chez l'homme, les animaux domestiques et les animaux sauvages avec lesquels ils peuvent être en contact. *Insectes, Arachnides, Crustaces, chewing lice*: 72-102

***Nigronirmus ploceus* Lakshminarayana, 1968 =  
*Brueelia plocea* Lakshminarayana, 1968**



**Registration No. 664/H16**

Family: PHILOPTERIDAE

Host: *Ploceus philippinus burmanicus* Ticehurst, 1932

Type category: HOLOTYPE

Sex: Male

Type Locality: INDIA: W.B., Salt Lake

Date of collection: 29.ix.1964

Name of collector : B. Biswas

Reference: Mallophaga Indica-II, A new species of Philopteridae on *Ploceus philippinus burmanicus* Ticehurst from India. *Oriental Ins.* 2 (1): 97-102.

Note: 665/16, 666/16 (Paratype: Male) are also recorded in the NZC.

***Nirmus biguttatus* Kellogg and Paine, 1914 =  
*Brueelia biguttata* (Kellogg and Paine, 1914)**



**Registration No. 645/H16**

Family: PHILOPTERIDAE

Host: *Graculus graculus* Linnaeus, 1766

Type category: LECTOTYPE

Sex: Male

Type Locality: CHINA: Tibet, Khampa Dzong

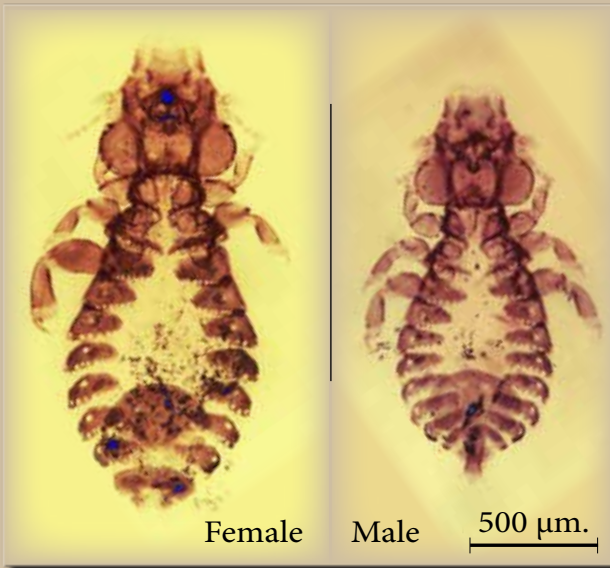
Date of collection: Not recorded

Name of collector: V.L.Kellogg

Reference: Kellogg V.L. and Paine J.H. (1914). Mallophaga from birds (mostly Corvidae and Phasianidae) of India and neighbouring countries. *Rec. Indian Mus.*, 10: 234.

Note: 646/16 (Paralectotype: Male and Female), 650/16 (Paralectotype: Female) and 651/16 (Paralectotype: Female) are also recorded in the NZC.

***Philopterus coarctatus* Scopoli, 1763**



Female Male 500 µm.

**Registration No. 174/H16**

Family: PHILOPTERIDAE  
 Host: *Lanius collurio* Linnaeus, 1758  
 Type category: NEOPARATYPE  
 Sex: Male and Female  
 Type Locality: SUDAN: (West Medani)  
 Wad Medani  
 Date of collection: 5.ix.1942  
 Name of collector: W. Ruttledge  
 Reference: Scopoli, J. A. 1763. *Entomologia carniolica exhibens insecta carniolae indigena et distributa in ordines, genera, species, varietates.* 382.

***Philopterus cumulatus* Ztotorzycka, 1964**



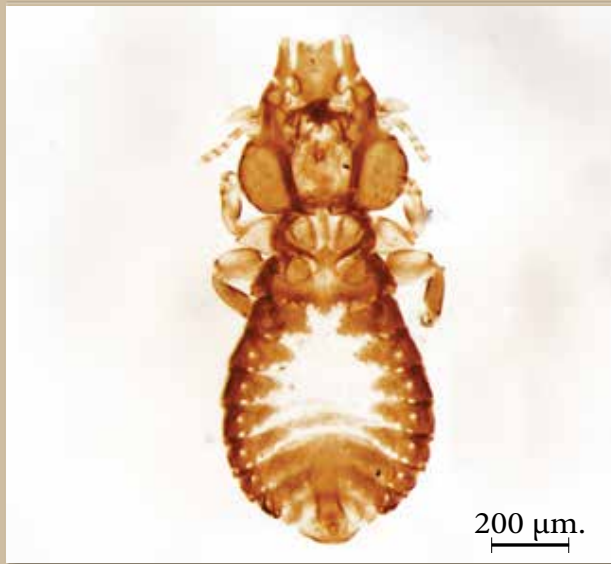
Female Male 200 µm.

**Registration No. 486/H16**

Family: PHILOPTERIDAE  
 Host: *Emberiza calandra* (Linnaeus, 1758)  
 Type category: PARATYPE  
 Sex: Male and Female  
 Type Locality: POLAND: Wroctaw  
 Date of collection: 5.iii.1961  
 Name of collector: J. Ztotorzycka  
 Reference: Ztotorzycka, J. 1964. Mallophaga parasitizing Passeriformes and Pici. III. Philopterinae. *Acta parasit. Pol.*, 12(37): 410.



*Philopterus kalkalichi* Ansari, 1955



**Registration No. 151/H16**

Family: PHILOPTERIDAE

Host: *Dicrurus caerulescens* (Linnaeus, 1758)

Type category: LECTOTYPE

Sex: Male

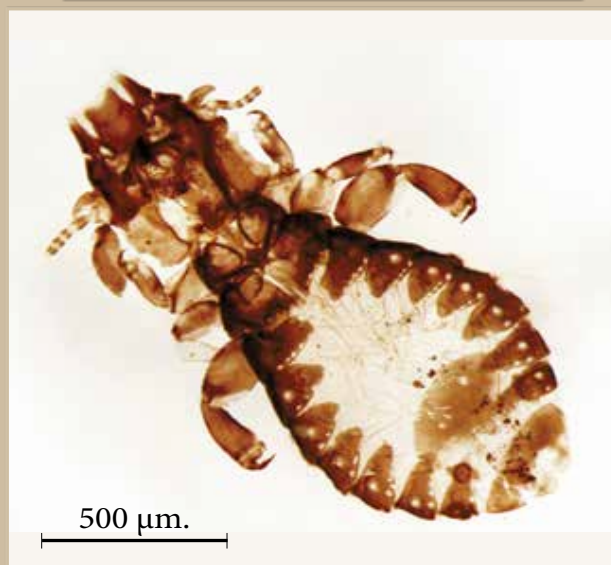
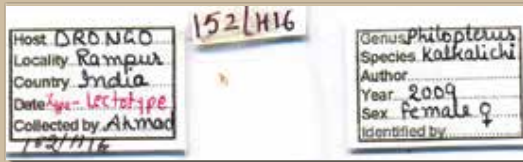
Type Locality: INDIA: U.P., Rampur

Date of collection: Not recorded

Name of collector: Ahmad

Reference: Ansari, M.A.R. 1955. Studies on the ischnoceron (sic) Mallophaga infesting birds in Pakistan. *Proceedings of the Seventh Pakistan Science Conference. Section: Biology, Bahawalpur, Pakistan*, Pp. 42-62.

*Philopterus kalkalichi* Ansari, 1955



**Registration No. 152/H16**

Family: PHILOPTERIDAE

Host: *Dicrurus caerulescens* (Linnaeus, 1758)

Type category: LECTOTYPE

Sex: Female

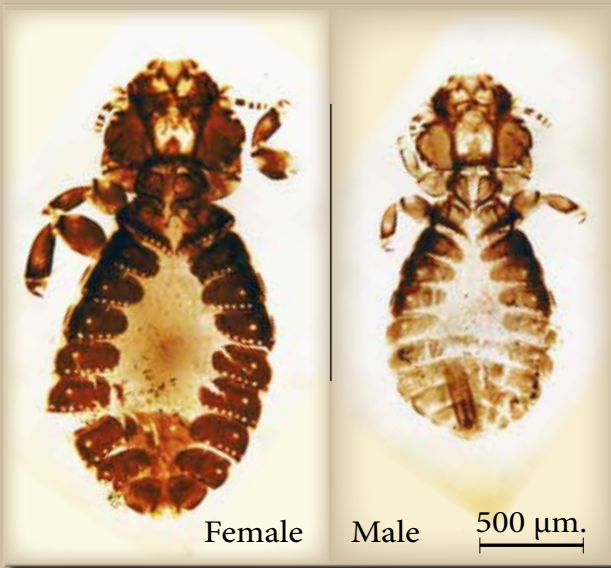
Type Locality: INDIA: U.P., Rampur

Date of collection: Not recorded

Name of collector: Ahmad

Reference: Ansari, M.A.R. 1955. Studies on the ischnoceron (sic) Mallophaga infesting birds in Pakistan. *Proceedings of the Seventh Pakistan Science Conference. Section: Biology, Bahawalpur, Pakistan*, Pp. 42-62.

*Philopterus thryptocephalus* (Kellogg and Paine, 1914)



**Registration No. 31/H16**

Family: PHILOPTERIDAE  
 Host: *Graculus graculus* Linnaeus, 1766  
 Type category: **LECTOTYPE**  
 Sex: Male and Female  
 Type Locality: INDIA: Kashmir, Gilgit  
 Date of collection: Not recorded  
 Name of collector: V.L.K. and J.H.P.  
 Reference: Kellogg V.L. and Paine J.H. (1914). Mallophaga from birds (mostly Corvidae and Phasianidae) of India and neighbouring countries. *Rec. Indian Mus.*, **10**: 232.  
 Note: 29/H16 (Paralectotype: Female)  
 30/16 (Paralectotype: Male and Female) is also recorded in the NZC.

*Quadriceps auratus* Haan, 1829

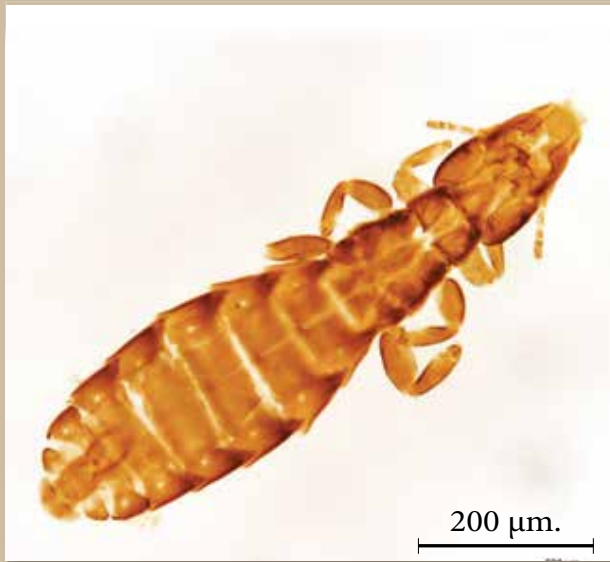


**Registration No. 176/H16**

Family: PHILOPTERIDAE  
 Host: *Haematopus ostralegus occidentalis* Neumann, 1929  
 Type category: **NEOPARATYPE**  
 Sex: Male and Female  
 Type Locality: U.K.: N.W. England, Morecambe Bay  
 Date of collection: 24.x.1938  
 Name of collector: G.H.E. Hopkins  
 Reference: De Haan, M. W. 1829. Mallophaga, *Mem. Hist. nat. Paris*, **18**: 310.



*Quadriceps clypeatus* (Kellogg and Paine, 1914) =  
*Quadriceps similis* Giebel, 1866



**Registration No. 40/H16**

Family: PHILOPTERIDAE  
Host: *Corvus cornix* Linnaeus, 1758  
Type category: **HOLOTYPE**  
Sex: Male  
Type Locality: CHINA: Kashgar, Yarkand  
Date of collection: Not recorded  
Name of collector: V.L.K. and J.H.P.  
Reference: Kellogg V.L. and Paine J.H. 1914. Mallophaga from birds (mostly Corvidae and Phasianidae) of India and neighbouring countries. *Rec. Indian Mus.*, **10**: 237.  
Giebel, C. 1866. Die im zoologischen Museum der Universität Halle aufgestellten Epizoennebst Beobachtungen über dieselben. *Zeit. Gesamt. Naturwiss.*, **28**: 353-357.

*Quadriceps junceus* Scopoli, 1763



**Registration No. 184/H16**

Family: PHILOPTERIDAE  
Host: *Vanellus vanellus* Linnaeus, 1758  
Type category: **NEOPARATYPE**  
Sex: Male and Female  
Type Locality: U.K.: Hoy Orkney Is.  
Date of collection: 6.viii.1938  
Name of collector: G.H.E. Hopkins  
Reference: Scopoli, J.A. 1763. *Entomologia carniolica exhibens insecta carnioliae indigena et distribute in ordines, genera, species, varietates (Pediculus)* : 384.

***Damalinea baxi* Hopkins, 1947 = *Damalinea (Damalinea) baxi* Hopkins, 1947**



**Registration No. 124/H16**

Family: TRICHODECTIDAE

Host: *Domaliscus korrigumjimela* (Matschie, 1892)

Type category: **PARATYPE**

Sex: Male and Female

Type Locality: AFRICA: Tanganyika Ukerewe Peninsula

Date of collection: x.1944

Name of collector: Not recorded

Reference: Hopkins, G. H. E. 1947. Notes on "Trichodectidae" (Mallophaga). IV. *Revta bras. Biol.*, 7: 117.

***Damalinea bovis* (Linnaeus 1758) = *Bovicola (Bovicola) bovis* (Linnaeus, 1758)**



**Registration No. 125/H16**

Family: TRICHODECTIDAE

Host: *Bos taurus* Bojanus, 1827

Type category: **NEOPARATYPE**

Sex : Female

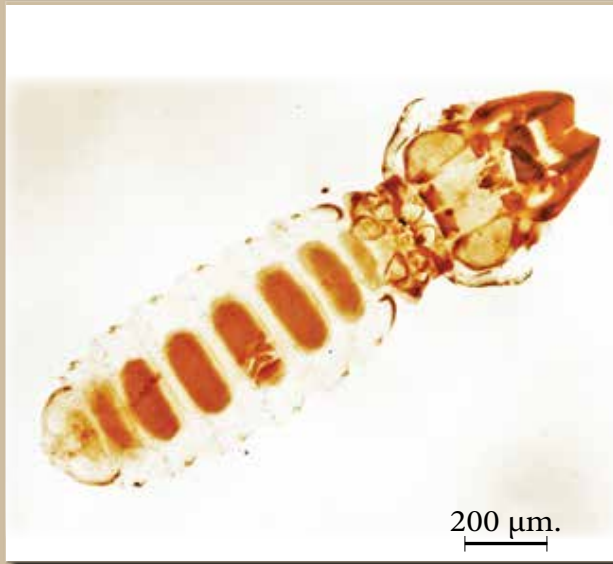
Type Locality: U.K.: Ireland

Date of collection : 7.v.1935

Name of collector: T. Lowden

Reference: Linnaeus, C. 1758. *Systema Naturae. Editio Decima, Reformata*, (Chewing lice); 1: 611.

***Damalinia hendrickxi* Hopkins, 1947 =  
*Damalinia (Cervicola) hendrickxi* Hopkins, 1947**



**Registration No. 126/H16**

Family: TRICHODECTIDAE

Host: *Cephalopus nigrifrons kivuensis* Gray

Type category: **PARATYPE**

Sex: Female

Type Locality: UGANDA: Nabande, Bufumbira

Date of collection: 5.xi.1940

Name of collector: G.H.E. Hopkins

Reference: Hopkins, G. H. E. 1947. Notes on "Trichodectidae" (Mallophaga) IV. *Rev. Brasil Biol.* 7:119.

***Trichodectes canis* de Geer, 1778**



**Registration No. 150/H16**

Family: TRICHODECTIDAE

Host: *Canis familiaris* Linnaeus, 1758

Type category: **NEOPARATYPE**

Sex: Female

Type Locality: BRAZIL: Sao Paulo

Date of collection: Not recorded

Name of collector: F.L.W. 305

Reference: de Geer, C. 1778. *Memoires pour servir a l'histoire des Insectes*, (Chewing lice) 7: 81.

***Damalinea ovis* Schrank 1789 = *Bovicola (Bovicola) ovis* (Schrank 1789)**



**Registration No. 129/H16**

Family: TRICHODECTIDAE

Host: *Ovis aries* Linneaus 1758

Type category: NEOPARATYPE

Sex: Male

Type Locality: BRAZIL: Riode Janeiro

Date of collection: Not recorded

Name of collector: F.L.W. 879

Reference: Schrank, F.v.P. 1789. *Enumeratio insectorum Austriae indigenorum*: 502.

***Damalinea ovis* (Schrank 1789) = *Bovicola (Bovicola) ovis* (Schrank 1789)**



**Registration No. 130/H16**

Family: TRICHODECTIDAE

Host: *Ovis aries* Linneaus 1758

Type category: NEOPARATYPE

Sex: Female

Type Locality: BRAZIL: Riode Janeiro

Date of collection: Not recorded

Name of collector: F.L.W. 879

Reference: Schrank, F.v.P. 1789. *Enumeratio insectorum Austriae indigenorum*: 502.



### *Stachiella ermineae* Hopkins, 1941



#### Registration No. 145/H16

Family: TRICHODECTIDAE

Host: *Mustela ermine stabilis* Barrett-Hamilton, 1904

Type category: **PARATYPE**

Sex: Female

Type Locality: U.K.: England, Suffolk

Date of collection: v.1935

Name of collector: F.L.W. 1007

Reference: Hopkins, G.H.E. 1941. Stray notes on Mallophaga-III. *Ann. Mag. nat. Hist.*, (11) 7: 38.

### *Stachiella ermineae* Hopkins, 1941



#### Registration No. 146/H16

Family: TRICHODECTIDAE

Host: *Mustela ermine stabilis* Barrett-Hamilton, 1904

Type category: **PARATYPE**

Sex: Male

Type Locality: U.K.: England, Cheshire, Alderley Fdge.

Date of collection: Not recorded

Name of collector: E. Cobex

Reference: Hopkins, 1941. *Ann. Mag. nat. Hist.*, (11) 7: 38.

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