

The holotypes of Dytiscidae in the Pederzani collection in the Museum of Natural History of Ferrara

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ABSTRACT

The Pederzani collection of Hydradeephaga, housed in the Natural History Museum of Ferrara, contains 15 holotypes of Dytiscidae. Their list is given, with information on their taxonomic status and the current location in the collection.

Key words: Coleoptera, Dytiscidae, holotypes, natural history collections, Ferrara.

RIASSUNTO

Gli olotipi di Dytiscidae della collezione Pederzani conservata nel Museo di Storia Naturale di Ferrara

La collezione di Idroadeefagi Pederzani è conservata nel Museo Civico di Storia Naturale di Ferrara. In essa sono conservati 15 ~~O~~lotipi di Dytiscidi, dei quali si fornisce l'elenco con informazioni sullo stato tassonomico e l'attuale collocazione.

Parole-chiave: Coleoptera, Dytiscidae, olotipi, collezioni naturalistiche, Ferrara.

INTRODUCTION

The International Code of Zoological Nomenclature (ICZN) strongly recommends (Recommendation 16C) to deposit the holotypes of new taxa in a public institution, such as a Museum or University collection. When new taxa were described on my material I have always followed that recommendation and deposited the holotypes in a public institution, whenever the type series contains a sufficient number of specimens. However in the case of short series or unique specimens I temporarily retained the holotypes in my collection, since no suitable paratype was available to me for further studies.

As my collection was deposited in the Museum of Natural History of Ferrara, those holotypes were also deposited there, thus the ICZN recommendation was finally followed. It should be emphasized that the 15 holotypes have a particularly high scientific value, because they are unique specimens, as a rule, without other existing paratypes.

I herewith list the 15 holotypes of Dytiscidae present in my collection, in the order they are arranged in the World Catalogue of the Family Dytiscidae (NILSSON & HÁJEK, 2023), reporting data and literature references indicated in the Catalogue. 14 of those 15 taxa are currently accepted as valid species, except one that was found to be a synonym. I add a photographic detail of the collection box where each holotype is stored.

This note aims to prevent the traces of those holotypes from being lost and to highlight the role and responsibility of the Museum in their conservation.

The abbreviations, the same ones used in NILSSON & HÁJEK (2023), have the following meaning: CFP = collection Fernando Pederzani; DESCR = modern description with addi-

tional information; HT = holotype; MRAC = Musée Royal de l'Afrique Centrale; Tervuren, Belgium; TL = type locality.

THE LIST OF TYPES

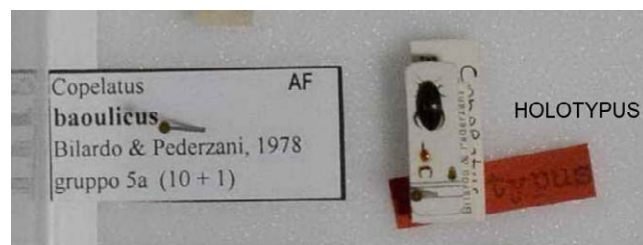


collection Pederzani

Coleoptera Hydradeephaga

detail collection box No 176

Agabus africanus Pederzani & Schizzerotto, 1998: 88; TL: Tunisia >Aïn Draham mountain >Babouch; HT: CFP.

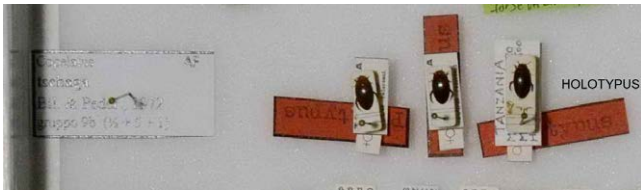


collection Pederzani

Coleoptera Hydradeephaga

detail collection box No 155

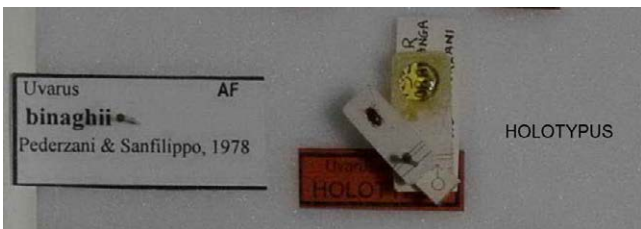
Copelatus baoulicus Bilardo & Pederzani, 1978: 123; TL: Ivory Coast >Bouaké; HT: CFP; DESCR.: Bilardo & Rocchi 2015: 7.



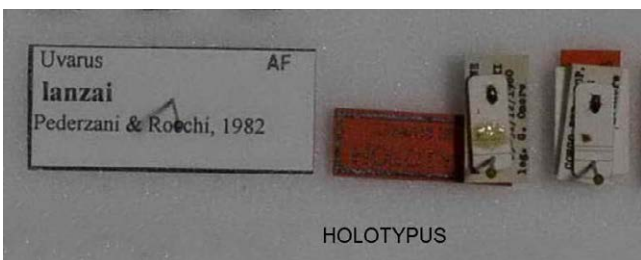
collection Pederzani
Coleoptera Hydradephaga
detail collection box No 164
Copelatus tschaga Bilardo & Pederzani, 1972: 78; TL: Tanzania
> Kilimanjaro mountain > Marangu; HT: CFP.



collection Pederzani
Coleoptera Hydradephaga
detail collection box No 81
Clypeodytes bicornis Bilardo & Pederzani, 1978: 111; TL: Ivory Coast > Toumodi; HT: CFP; DESCR.: Biström 1988c: 236.



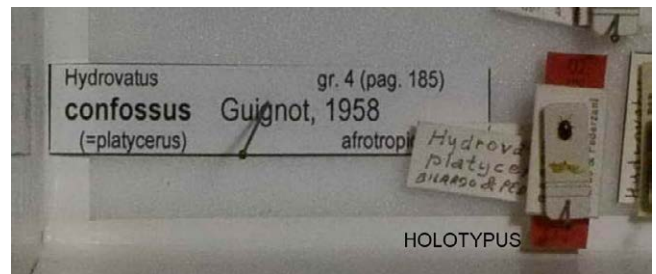
collection Pederzani
Coleoptera Hydradephaga
detail collection box No 76
Uvarus binaghii Pederzani & Sanfilippo, 1978: 241; TL: Madagascar > Moramanga; HT: CFP; DESCR.: Biström 1988e: 33.



collection Pederzani
Coleoptera Hydradephaga
detail collection box No 76
Uvarus lanzai Pederzani & Rocchi, 1982: 76; TL: Central African Republic > Mbaiki District > Zomia (Zomea); HT: CFP; DESCR.: Biström 1988e: 30.



collection Pederzani
Coleoptera Hydradephaga
detail collection box No 41
Hydrovatus concii Bilardo & Pederzani, 1978: 105; TL: Ivory Coast > Bouaké; HT: CFP; DESCR.: Biström 1997a: 298.



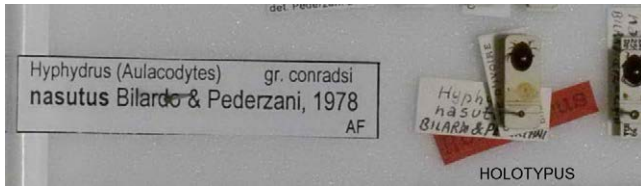
collection Pederzani
Coleoptera Hydradephaga
detail collection box No 41
Hydrovatus platycerus Bilardo & Pederzani, 1978: 106; TL: Gabon > Ntoundou; HT: CFP **punto**
= *Hydrovatus confossus* Guignot, 1958e: 4; TL: Zaire > Orientale > Garamba NP; HT: MRAC; DESCR.: Biström 1997a: 185 (N. SYN. by Biström 1997a: 185).



collection Pederzani
Coleoptera Hydradephaga
detail collection box No 42
Hydrovatus megalocerus Bilardo & Pederzani, 1978: 106; TL: Ivory Coast > Toumodi; HT: CFP; DESCR.: Biström 1997a: 217.



collection Pederzani
Coleoptera Hydradephaga
detail collection box No 43
Hydrovatus satanoides Pederzani & Rocchi, 1982: 68; TL: Congo > Voka; HT: CFP; DESCR.: Biström 1997a: 226.

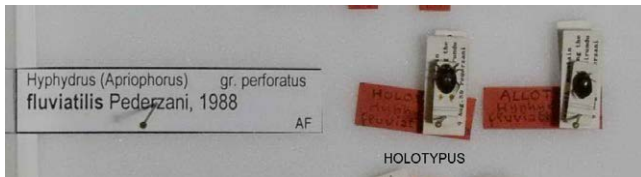


collection Pederzani

Coleoptera Hydradeephaga

detail collection box No 52

Hyphydrus nasutus Bilardo & Pederzani, 1978: 100; TL: Ivory Coast >Toumodi; HT: CFP; DESCR.: Biström 1982c: 105.

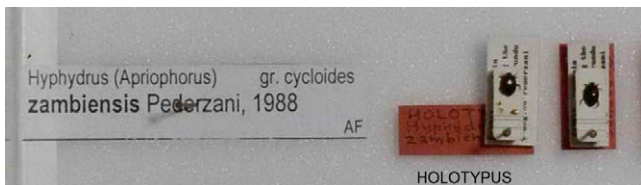


collection Pederzani

Coleoptera Hydradeephaga

detail collection box No 53

Hyphydrus fluviatilis Pederzani, 1988: 111; TL: Zambia >betw. Kafue & Chirundu; HT: CFP.

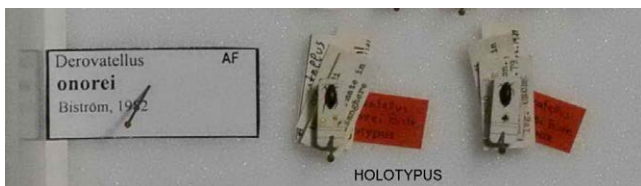


collection Pederzani

Coleoptera Hydradeephaga

detail collection box No 57

Hyphydrus zambiensis Pederzani, 1988: 113; TL: Zambia >betw. Kafue & Chirundu; HT: CFP.



collection Pederzani

Coleoptera Hydradeephaga

detail collection box No 38

Derovatellus onorei Biström, 1982d: 267; TL: Congo >Mbo-mo NP; HT: CFP.



collection Pederzani

Coleoptera Hydradeephaga

detail collection box No 142

Laccophilus ferrugo Biström, Nilsson & Bergsten, 2015: 25; TL: Mozambique >Inhambane Province >15 km SE Save; HT: CFP.

REFERENCES

- BILARDO A. & PEDERZANI F., 1972: Contributo alla conoscenza dei *Copelatus* Er. africani con descrizione di quattro nuove specie (Coleoptera Dytiscidae). *Memorie della Società Entomologica Italiana*, 51: 71-87.
- BILARDO A. & PEDERZANI F., 1978: Récoltes de coléoptères aquatiques Halipidae et Dytiscidae dans le Gabon et la Côte d'Ivoire. *Memorie della Società Entomologica Italiana*, 56 (1976-1977): 93-130.
- BILARDO A. & ROCCHI S., 2015: A revision and synopsis of the African species of the genus *Copelatus* Erichson, 1832. The group *erichsonii*, subgroup *atrosulcatus* (Coleoptera Dytiscidae). *Memorie della Società Italiana di Scienze Naturali e del Museo Civico di Storia Naturale di Milano*, 40: 1-38.
- BISTRÖM O., 1982d: *Derovatellus onorei* n. sp. from Congo (Coleoptera: Dytiscidae). *Entomologica Scandinavica*, 13: 267-268.
- BISTRÖM O., 1988c: Revision of the genus *Chypeodytes* Régimbart in Africa (Coleoptera: Dytiscidae). *Entomologica Scandinavica*, 19: 199-238.
- BISTRÖM O., 1988e: Review of the genus *Uvarus* Guignot in Africa (Coleoptera, Dytiscidae). *Acta Entomologica Fennica*, 51: 1-38.
- BISTRÖM O., 1997a: Taxonomic revision of the genus *Hydrovatus* Motschulsky (Coleoptera, Dytiscidae). *Entomologica Basiliensia*, 19 (1996): 57-584.
- BISTRÖM O., NILSSON A.N. & BERGSTEN J., 2015: Taxonomic revision of Afrotropical *Laccophilus* Leach, 1815 (Coleoptera, Dytiscidae). *ZooKeys*, 542: 1-379.
- GUIGNOT F., 1958e: Halipidae et Dytiscidae nouveaux du Parc National de la Garamba. Deuxième série. *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique*, 34(6): 1-8.
- ICZN, 1999: International Code of Zoological Nomenclature.
- NILSSON A.N. & HÁJEK J., 2023: A World Catalogue of the Family Dytiscidae. Version 1.I.2023 (URL: <http://www.waterbeetles.eu>) being a corrected and updated version of the printed catalogue: Nilsson A.N., 2001: Dytiscidae (Coleoptera). World Catalogue of Insects. Vol. 3. Stenstrup: Apollo Books, 395 pp.

PEDERZANI F., 1988: Dytiscidae collected in Zambia and description of *Hyphydrus fluviatilis* n. sp. and *Hyphydrus zambiensis* n. sp. (Coleoptera Dytiscidae). *Atti dell'Accademia Roveretana degli Agiati, Contributi della Classe di Scienze Matematiche, Fisiche e Naturali (B)*, 26 (1986): 103-118.

PEDERZANI F. & ROCCHI S., 1982: Dytiscidae (Coleoptera) collected in the People's Republic of Congo by Mr. Giovanni Onore in the years 1977-1980, *Redia* 65: 65-88.

PEDERZANI F. & SANFILIPPO N., 1978: Contributo alla conoscenza dei ditiscidi delle isole Seychelles e del Madagascar

(Coleoptera Dytiscidae). *Memorie della Società Entomologica Italiana*, 56: 239-243.

PEDERZANI F. & SCHIZZEROTTO, A. 1998: Description of *Aga-bus (Dichonectes) africanus* n. sp. from north-west Tunisia and notes on the cohabiting species of Hydradephaga (Coleoptera Haliplidae, Gyrinidae & Dytiscidae). *Atti dell'Accademia Roveretana degli Agiati, Contributi della Classe di Scienze Matematiche, Fisiche e Naturali (7)*, 8B (248): 87-95.

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