



# CATALOGUE

OF THE STATE MUSEUM  
OF NATURAL HISTORY,  
NATIONAL ACADEMY OF SCIENCES  
OF UKRAINE DIGITIZED COLLECTIONS

Herbarium, acarological &  
entomological collections

(scientific-reference edition)





Catalogue of the digitized collections, deposited in the State Museum of Natural History, National Academy of Sciences of Ukraine. Issue 2. Herbarium, acarological & entomological collections. – Lviv, 2024. – 128 p. [Electronic publication]

Abstract. The next issue of the catalogue, which includes moss and fern samples, specimens of oribatid mites and beetles from the collection of the State Museum of Natural History, National Academy of Sciences of Ukraine, has been published. In this catalogue we present precise information about 15 species and 202 digitized specimens of biota groups mentioned above. Two species, *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. (Hypnales, Brachytheciaceae) and *Carabus estreicheri* Fischer von Waldheim, 1822 (Coleoptera, Carabidae), have been included into the Red Data Book of Ukraine.

For botanists, acarologists, entomologists, and workers of natural history museums.

Key words: biodiversity, fauna, flora, mosses, ferns, oribatid mites, ground beetles, insects, museum, digitized collection, catalogue.

*Recommended for publication by the Scientific Council of the State Museum of Natural History, National Academy of Sciences of Ukraine*

## LIST OF ABBREVIATIONS

- AR – Autonomous Republic  
BR – Biosphere Reserve  
CrMts – Crimean Mountains  
CrSL – Crimean Steppe land  
CsCp – Ciscarpathians' Upland  
DCBU – Data Centre “Biodiversity of Ukraine”  
DnDpL – Dnister-Dnipro land  
DntsL – Donets land  
EBs – Eastern Beskydy  
Event Date format – yyyy-mm-dd,  
FSZ – Forest-Steppe zone,  
FZB – Temperate broad-leaf forest zone,  
Gg – Gorgany massif  
IZU – I. I. Schmalhausen Institute of Zoology of National Academy of Sciences of Ukraine  
LDpL – Dnipro left bank forest-steppe land  
LN – Landmark of Nature  
MrCh – Marmarosh-Chyvchyny region  
NASU – National Academy of Sciences of Ukraine  
NNP – National Nature Park  
NR – Nature Reserve  
OCVV – Outercarpathians and Vododilno-Verkhovynska oblasti  
PBC – Pokutsko-Bukovynski Carpathians  
PdDpL - Podillia-Dnipro forest-steppe land  
PIChr – Polonynsko-Chornohirska region  
ROp - Roztotsko-Opilska Upland  
SMNH – State Museum of Natural History, National Academy of Sciences of Ukraine, Lviv  
SMNH LWS – Herbarium of the State Museum of Natural History, National Academy of Sciences of Ukraine, Lviv  
SZ – Steppe zone  
SZN – Northern Steppe subzone  
SZS – South Steppe subzone  
TrCp – Trancarpathians Lowland  
UC – Ukrainian Carpathians  
Vlk - Vulkanichno-intermountaindells oblast

## PREFACE

Museum collections are the important resources for scientists, studying different groups of biota and their diversity. These collections include specimens both from Ukraine and neighboring countries, and can be used to study the taxonomy, biogeography, morphology, and evolution of plants and animals. Besides, the museum collections may be useful for researches in biology and ecology of insects, as they will contribute to their conservation efforts.

State Museum of Natural History, National Academy of Sciences of Ukraine in Lviv is one of the oldest and the richest in terms of the natural scientific collections in Ukraine. On the whole, the natural collections include about 400 thousand items, and are of exceptional importance for science. By the resolution of the Cabinet of Ministers of Ukraine (2001), scientific collections and rare display cabinets of the 19th century were granted the status of National heritage. Over the past eight years the SMNH has been engaged in the introduction of an electronic collection accounting system and collections' digitization using the software and web resource Data Centre "Biodiversity of Ukraine" (DCBU) created in the Museum. The web resource Data Centre "Biodiversity of Ukraine" was created in the State Museum of Natural History, NAS of Ukraine and published on the internet on May 25, 2017.

The web portal DCBU is working with database, which contains information on scientific and vernacular names of organisms, data records of species, digitized museum specimens, their geotagged geographical distribution, protection categories etc. The international standards (Darwin Core) to facilitate the sharing of information on biological diversity are used for the database maintenance. At present, the database contains more than 70 thousand records, over 32 thousand of which are from the collection of the SMNH. Now above 16000 items (4000 mosses and vascular plants samples and 12000 insect and mammal specimens) are digitized and the process of digitization is ongoing.

This catalogue contains data on 14 species: mosses (14 samples), ferns (26), oribatid mites (16 specimens), beetles (ground beetles – 132 spec.) from the collection of the SMNH. In total 188 items. Two species *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. (Hypnales, Brachytheciaceae) and *Carabus streicheri* Fischer von Waldheim, 1822 (Coleoptera, Carabidae), have been included into the Red Data Book of Ukraine. All samples are included in the electronic databases of the museum, in particular Data Centre «Biodiversity of Ukraine» <<http://dc.smnh.org/>>. Each sample has a QR code that can be used to go to its page in the web resource Data Centre "Biodiversity of Ukraine".

This catalogue, in addition to ensuring additional preservation of the scientific and historical natural heritage, enables easy searching and access to specimens of the SMNH collections for researchers and other users, which can be decisive for studying biodiversity and can help to fill gaps in knowledge and to prioritize future collecting efforts in areas where little is known about the certain groups of flora and fauna.

**CATALOGUE OF BRACHYCHTHONIIDAE (SARCOPTIFORMES, ORIBATIDA)  
SPECIMENS DEPOSITED IN THE STATE MUSEUM OF NATURAL HISTORY  
NASU, LVIV, UKRAINE**

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DOI: <https://doi.org/10.36885/cdcsmnh.2024.23>

Brachychthoniids are tiny mites, typically measuring less than 250  $\mu\text{m}$  in length (Krant et al. 2009). Brachychthoniids can be distinguished from other oribatids by the fact that their notogaster is divided into 3 plates by 2 transverse furrows (Weigmann, 2006). The anteriormost plate has 6 pairs of setae (*c* and *d* rows) (Krant et al., 2009). Without extra cupules immediately lateral to mid-dorsal setae (Krant et al., 2009). The genital plates and the combined anal/peranal plates are of similar size (Krant et al., 2009). There is 1 pair of aggenital setae, 2 pairs of setae on the anal plates, and the peranal plates are present with 1 pair of setae (Krant et al., 2009).

In terms of geography and ecology, brachychthoniids may be the most extensively spread family among oribatid mites (Krant et al., 2009). Besides being varied and plentiful in damp forest soil and litter, they are frequently found in disclimax communities and newly established habitats (Norton and Palmer, 1991).

The world fauna of Brachythoniidae is represented by 163 species belonging to 12 genera (Subias, 2004). In Ukraine, 40 species of mites of this family, belonging to 9 genera (Ярошенко, 2000). Thus, the species diversity in Ukraine is 25% of the world's fauna. The collection of oribatid mites of the State Museum of Natural History of the NAS of Ukraine contains 9 species of brachychthoniids, as follows: *Liochthonius alpestris* (Forsslund, 1958), *L. hystricinus* (Forsslund, 1942), *L. muscorum* Forsslund, 1964, *L. brevis* (Michael, 1888), *L. sellnicki* (Thor, 1930), *Sellnickochthonius suecicus* (Forsslund, 1942), *S. zelawaiensis* (Sellnick, 1928), *Eobrachychthonius oudemansi* van der Hammen 1952 and *Synchthonius crenulatus* (Jacot, 1938). They have been collected in the western regions of Ukraine and are represented by 96 individuals, which make up 16 records. In particular, the collection contains samples collected from Zakarpatska, Lvivska and Ivano-Frankivska provinces. Some materials were collected in nature conservation areas: Nature Reserve Roztochchia, National Natural Park Synevyr and Carpathian Biosphere Reserve.

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*Liochthonius alpestris* (Forsslund, 1958)



Inventory number: 1442  
Digital record number: SMNH010587  
Data Centre "Biodiversity of Ukraine": ID 36761

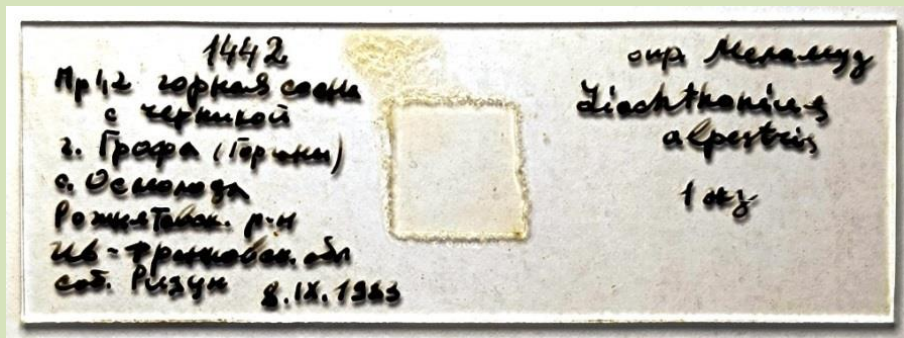


Fig. 1. Specimen of *Liochthonius alpestris* (Forsslund, 1958) in the SMNH collection.

*Collection Type:* MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1983-09-08; *Country:* Ukraine; *State Province:* Ivano-Frankivska; *District:* Rozhniativskiy; *Municipality:* Osmoloda; *Georegion:* Outer Gorgany range; *Locality:* Grofa Mt; *Habitat:* *Pinus mugo* and *Vaccinium myrtillus*; *Leg:* Rizun V.B.; *Det:* Melamud V.V.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* - .

*Liochthonius brevis* (Michael, 1888)



Inventory number: 1443  
Digital record number: SMNH010590  
Data Centre "Biodiversity of Ukraine": ID 36764

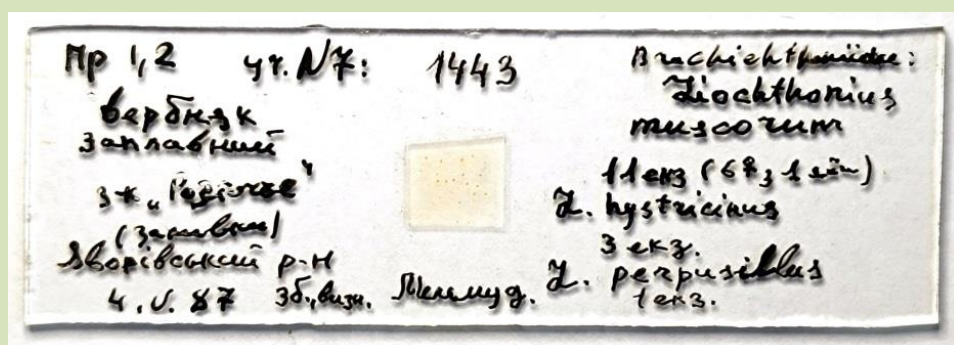


Fig. 2. Specimen of *Liochthonius brevis* (Michael, 1888) in the SMNH collection.

*Collection Type:* MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1987-05-04; *Country:* Ukraine; *State Province:* Lvivska; *District:* Yavorivskiy; *Municipality:* Ivano-Frankove; *Reserve:* NR Roztochchia; *Georegion:* FZB: ROp: Roztochchia; *Locality:* Piasetskyi's profile, sampling plot №7; *Habitat:* floodplain willow, litter; *Leg:* Melamud V.V.; *Det:* Melamud V.V.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* - .

*Liochthonius hystericinus* (Forsslund, 1942)



Inventory number: 1443  
Digital record number: SMNH010588  
Data Centre "Biodiversity of Ukraine": ID 36762

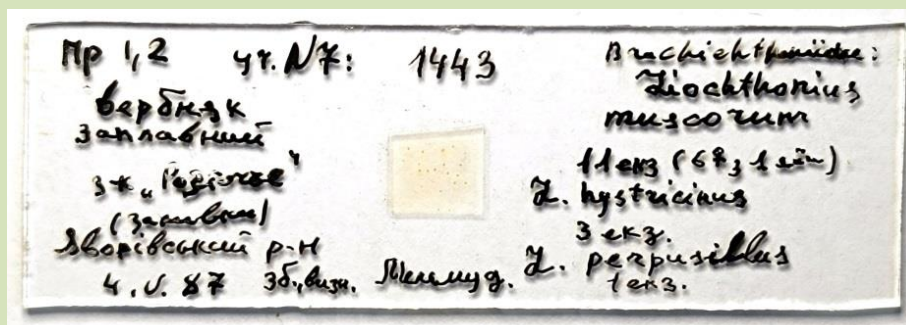
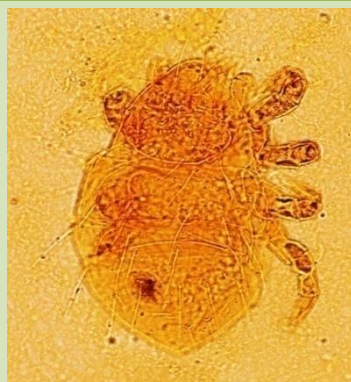


Fig. 3. Specimen of *Liochthonius hystericinus* (Forsslund, 1942) in the SMNH collection.

*Collection Type:* MuseumCollection/Specimen; *Count:* 3; *Event Date:* 1987-05-04; *Country:* Ukraine; *State Province:* Lvivska; *District:* Yavorivskyi; *Municipality:* Ivano-Frankove; *Reserve:* NR Roztochchia; *Georegion:* FZB: ROp: Roztochchia; *Locality:* Piasetskyi's profile, sampling plot №7; *Habitat:* floodplain willow, litter; *Leg:* Melamud V.V.; *Det:* Melamud V.V.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* - .

*Liochthonius muscorum* Forsslund, 1964



Inventory number: 1443  
Digital record number: SMNH010589  
Data Centre "Biodiversity of Ukraine": ID 36763

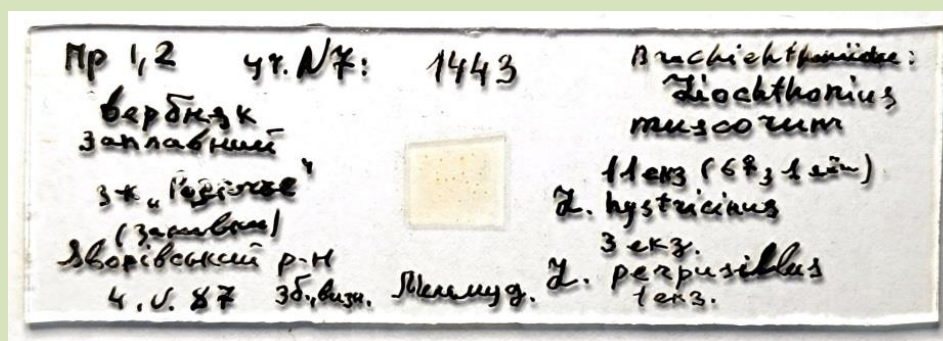


Fig. 4. Specimen of *Liochthonius muscorum* Forsslund, 1964 in the SMNH collection.

*Collection Type:* MuseumCollection/Specimen; *Count:* 11; *Event Date:* 1987-05-04; *Country:* Ukraine; *State Province:* Lvivska; *District:* Yavorivskyi; *Municipality:* Ivano-Frankove; *Reserve:* NR Roztochchia; *Georegion:* FZB: ROp: Roztochchia; *Locality:* Piasetskyi's profile, sampling plot №7; *Habitat:* floodplain willow, litter; *Leg:* Melamud V.V.; *Det:* Melamud V.V.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* - .



*Liochthonius muscorum* Forsslund, 1964



Inventory number: E1445  
Digital record number: SMNH010592  
Data Centre "Biodiversity of Ukraine": ID 36766

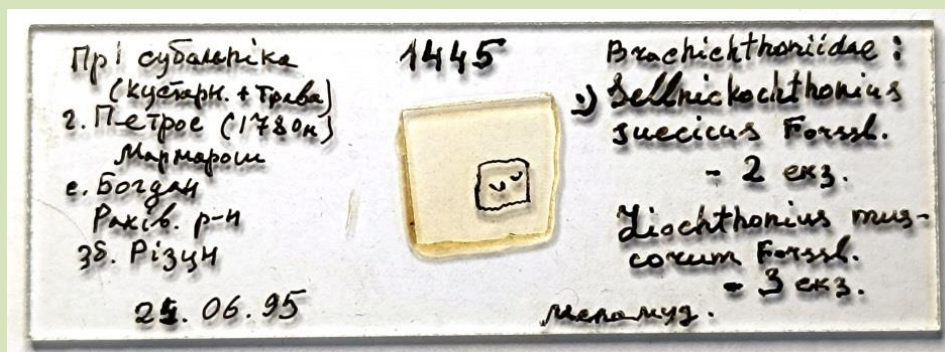


Fig. 5. Specimen of *Liochthonius muscorum* Forsslund, 1964 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; Count: 3; Event Date: 1995-06-24; Country: Ukraine; State Province: Zakarpatska; District: Rakhivskyi; Municipality: Bohdan; Reserve: BR Carpathian: Marmarosh protected massif; Georegion: UC: MrCh: Marmarosh massif; Locality: Pip Ivan Mt, 1940 m a.s.l.; Habitat: subalpine zone (shrubs + grass); Leg: Rizun V.B.; Det: Melamud V.V.; Institution Code: SMNH; Citation: - ; Remarks: - .

*Liochthonius muscorum* Forsslund, 1964



Inventory number: 1446  
Digital record number: SMNH010596  
Data Centre "Biodiversity of Ukraine": ID 36770

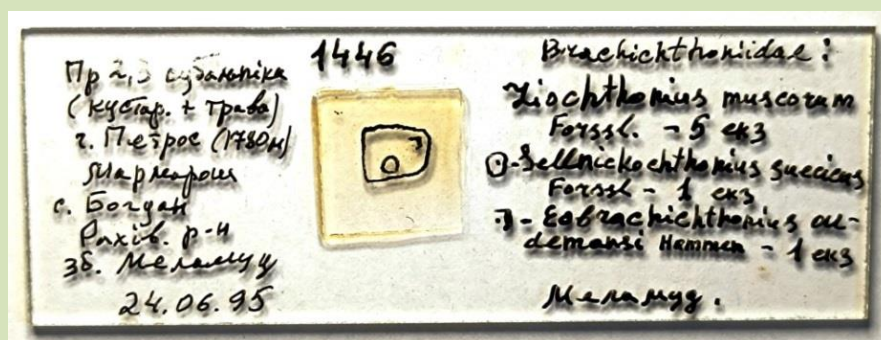


Fig. 6. Specimen of *Liochthonius muscorum* Forsslund, 1964 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; Count: 5; Event Date: 1995-06-24; Country: Ukraine; State Province: Zakarpatska; District: Rakhivskyi; Municipality: Bohdan; Reserve: BR Carpathian: Marmarosh protected massif; Georegion: UC: MrCh: Marmarosh massif; Locality: Petros Mt, 1780 m a.s.l.; Habitat: subalpinezone (shrubs + grass); Leg: Melamud V.V.; Det: Melamud V.V.; Institution Code: SMNH; Citation: - ; Remarks: - .



*Liochthonius sellnicki* (Thor, 1930)



Inventory number: 1444  
Digital record number: SMNH010591  
Data Centre "Biodiversity of Ukraine": ID 36765

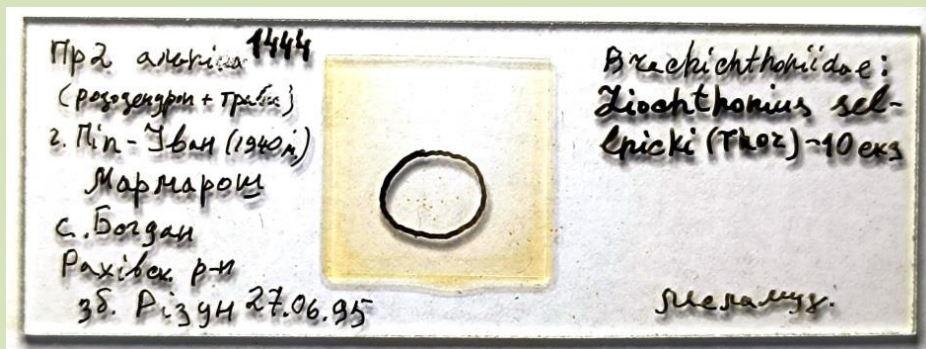


Fig. 7. Specimen of *Liochthonius sellnicki* (Thor, 1930) in the SMNH collection.

*Collection Type:* MuseumCollection/Specimen; *Count:* 10; *Event Date:* 1995-06-27; *Country:* Ukraine; *State Province:* Zakarpatska; *District:* Rakhivskyi; *Municipality:* Bohdan; *Reserve:* BR Carpathian: Marmarosh protected massif; *Georegion:* UC: MrCh: Marmarosh massif; *Locality:* Pip Ivan Mt, 1940 m a.s.l.; *Habitat:* alpine zone (myrtle-leaved rhododendron + grass); *Leg:* Rizun V.B.; *Det:* Melamud V.V.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* (= *Brachyichthonius scalaris* Forsslund, 1942).

*Eobrachyichthonius oudemansi* van der Hammen 1952



Inventory number: 1446  
Digital record number: SMNH010595  
Data Centre "Biodiversity of Ukraine": ID 36769

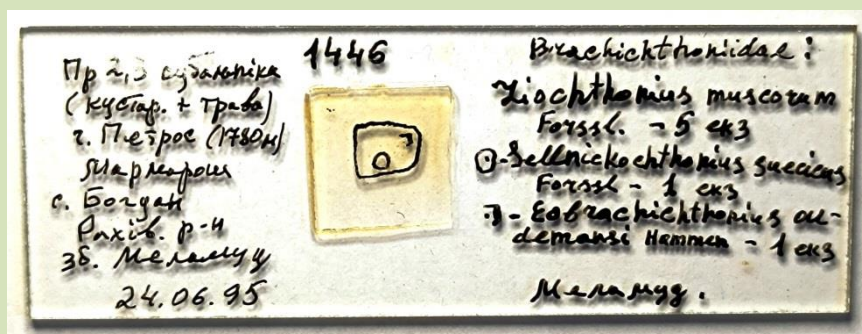


Fig. 8. Specimen of *Eobrachyichthonius oudemansi* van der Hammen 1952 in the SMNH collection.

*Collection Type:* MuseumCollection/Specimen; *Count:* 2; *Event Date:* 1995-06-24; *Country:* Ukraine; *State Province:* Zakarpatska; *District:* Rakhivskyi; *Municipality:* Bohdan; *Reserve:* BR Carpathian: Marmarosh protected massif; *Georegion:* UC: MrCh: Marmarosh massif; *Locality:* Petros Mt, 1780 m a.s.l.; *Habitat:* subalpine zone (shrubs + grass); *Leg:* Melamud V.V.; *Det:* Melamud V.V.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* - .

*Sellnickochthonius suecicus* (Forsslund 1942)



Inventory number: 1445  
Digital record number: SMNH010593  
Data Centre "Biodiversity of Ukraine": ID 36767

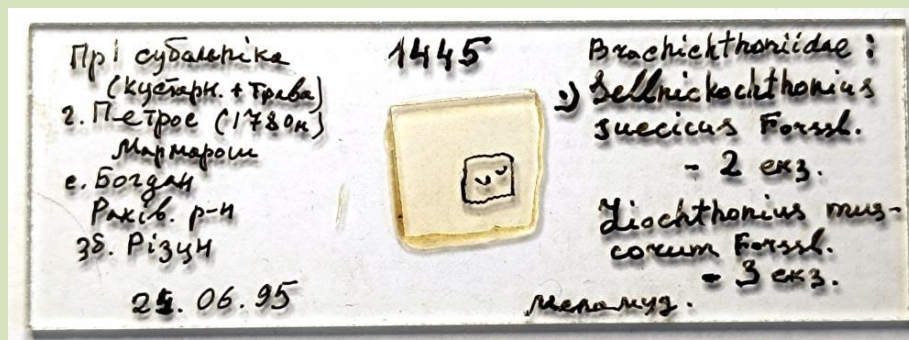
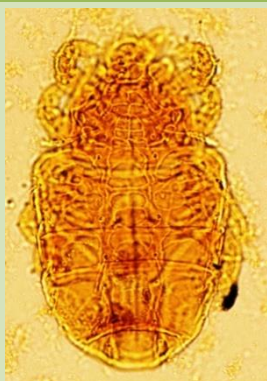


Fig. 9. Specimen of *Sellnickochthonius suecicus* (Forsslund 1942) in the SMNH collection.

Collection Type: MuseumCollection/Specimen; Count: 2; Event Date: 1995-06-25; Country: Ukraine; State Province: Zakarpatska; District: Rakhivskyi; Municipality: Bohdan; Reserve: BR Carpathian: Marmarosh protected massif; Georegion: UC: MrCh: Marmarosh massif; Locality: Petros Mt, 1780 m a.s.l.; Habitat: subalpine zone (shrubs + grass); Leg: Rizun V.B.; Det: Melamud V.V.; Institution Code: SMNH; Citation: - ; Remarks: (= *Brachychthonius jugatus* v. *suecicus* Forsslund; *B. jacoti* Evans; *B. jugatus* Jacot sensu Niedbala, 1972).

*Sellnickochthonius suecicus* (Forsslund 1942)



Inventory number: 1446  
Digital record number: SMNH010594  
Data Centre "Biodiversity of Ukraine": ID 36768

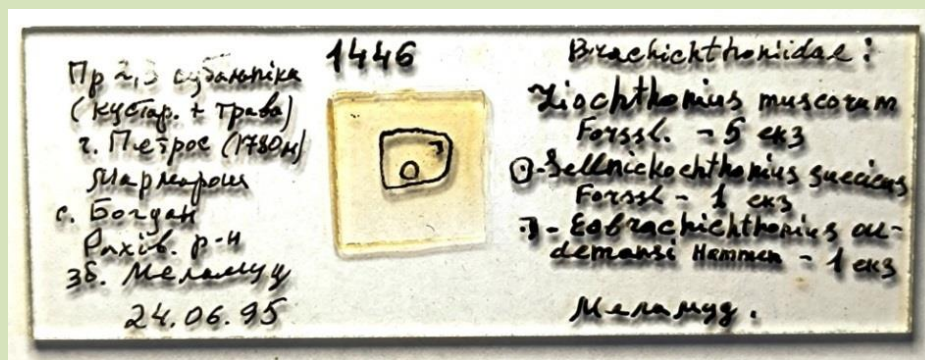


Fig. 10. Specimen of *Sellnickochthonius suecicus* (Forsslund 1942) in the SMNH collection.

Collection Type: MuseumCollection/Specimen; Count: 2; Event Date: 1995-06-24; Country: Ukraine; State Province: Zakarpatska; District: Rakhivskyi; Municipality: Bohdan; Reserve: BR Carpathian: Marmarosh protected massif; Georegion: UC: MrCh: Marmarosh massif; Locality: Petros Mt, 1780 m a.s.l.; Habitat: subalpine zone (shrubs + grass); Leg: Melamud V.V.; Det: Melamud V.V.; Institution Code: SMNH; Citation: - ; Remarks: - .



*Sellnickochthonius suecicus* (Forsslund 1942)



Inventory number: 1447  
Digital record number: SMNH010597  
Data Centre "Biodiversity of Ukraine": ID 36771

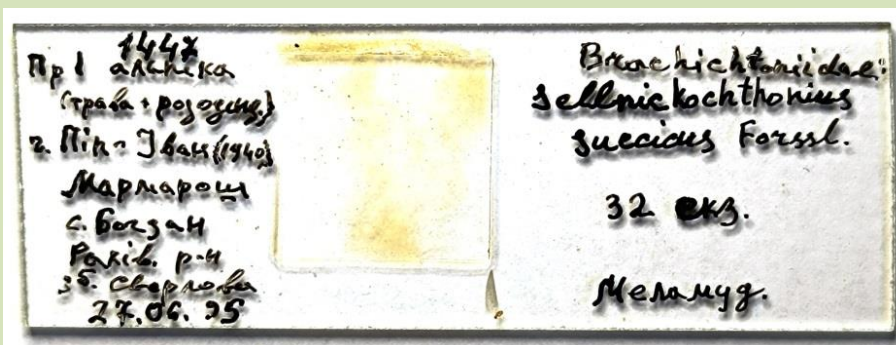


Fig. 11. Specimen of *Sellnickochthonius suecicus* (Forsslund 1942) in the SMNH collection.  
*Collection Type*: MuseumCollection/Specimen; *Count*: 32; *Event Date*: 1995-06-27;  
*Country*: Ukraine; *State Province*: Zakarpatska; *District*: Rakhivskyi; *Municipality*: Bohdan; *Georegion*: UC: MrCh: Marmarosh massif; *Locality*: Pip Ivan Mt, 1940 m a.s.l.;  
*Habitat*: alpine zone (myrtle-leaved rhododendron + grass); *Leg*: Sverlova N.V.; *Det*: Melamud V.V.; *Institution Code*: SMNH; *Citation*: - ; *Remarks*: (= *Brachychthonius jugatus* v. *suecicus* Forsslund; *B. jacoti* Evans; *B. jugatus* Jacot sensu Niedbala, 1972).

*Sellnickochthonius suecicus* (Forsslund 1942)



Inventory number: 1448  
Digital record number: SMNH010598  
Data Centre "Biodiversity of Ukraine": ID 36772

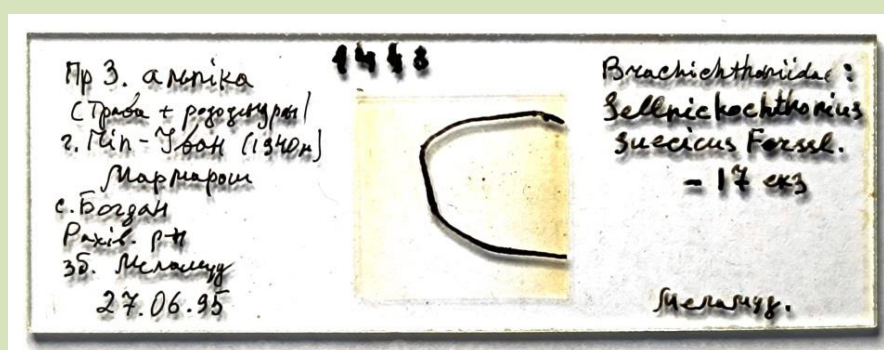
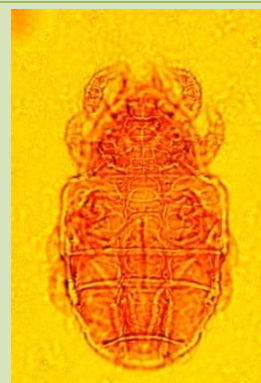


Fig. 12. Specimen of *Sellnickochthonius suecicus* (Forsslund 1942) in the SMNH collection.  
*Collection Type*: MuseumCollection/Specimen; *Count*: 17; *Event Date*: 1995-06-27;  
*Country*: Ukraine; *State Province*: Zakarpatska; *District*: Rakhivskyi; *Municipality*: Bohdan; *Georegion*: UC: MrCh: Marmarosh massif; *Locality*: Pip Ivan Mt, 1940 m a.s.l.;  
*Habitat*: alpine zone (myrtle-leaved rhododendron + grass); *Leg*: Melamud V.V.; *Det*: Melamud V.V.; *Institution Code*: SMNH; *Citation*: - ; *Remarks*: (= *Brachychthonius jugatus* v. *suecicus* Forsslund; *B. jacoti* Evans; *B. jugatus* Jacot sensu Niedbala, 1972).

*Sellnickochthonius suecicus* (Forsslund 1942)



Inventory number: 1449  
Digital record number: SMNH010599  
Data Centre "Biodiversity of Ukraine": ID 36773

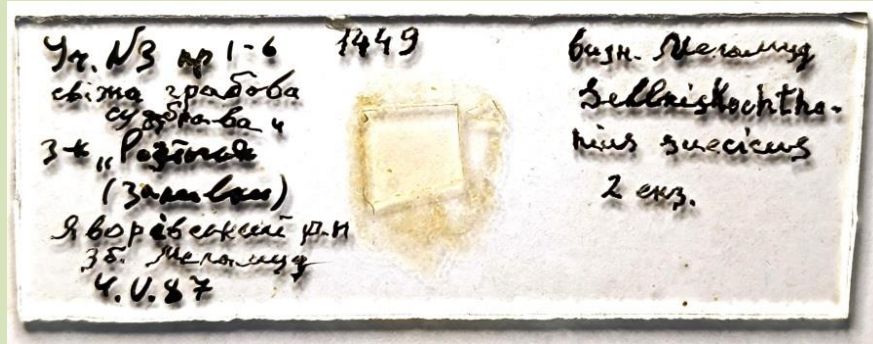


Fig. 13. Specimen of *Sellnickochthonius suecicus* (Forsslund 1942) in the SMNH collection.

*Collection Type:* MuseumCollection/Specimen; *Count:* 2; *Event Date:* 1987-05-04; *Country:* Ukraine; *State Province:* Lvivska; *District:* Yavorivskyi; *Municipality:* Ivano-Frankove; *Reserve:* NR Roztochchia; *Georegion:* FZB; *ROp:* Roztochchia; *Locality:* Zalyvky locality; *Habitat:* fresh hornbeam-oak forest; *Leg:* Melamud V.V.; *Det:* Melamud V.V.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* (= *Brachychthonius jugatus* v. *suecicus* Forsslund; *B. jacoti* Evans; *B. jugatus* Jacot sensu Niedbala, 1972).

*Sellnickochthonius suecicus* (Forsslund 1942)



Inventory number: 1450  
Digital record number: SMNH010600  
Data Centre "Biodiversity of Ukraine": ID 36774

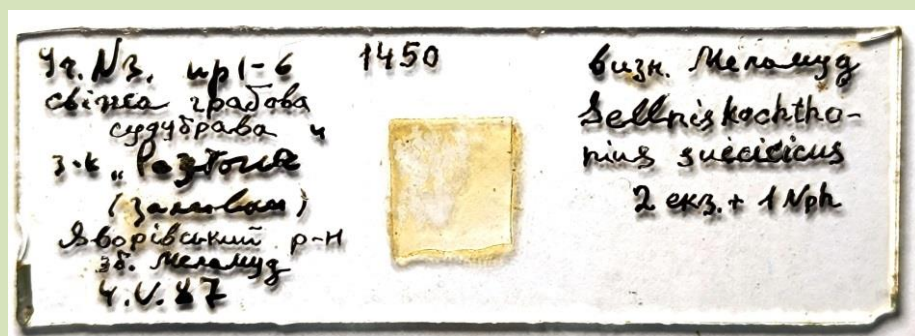


Fig. 14. Specimen of *Sellnickochthonius suecicus* (Forsslund 1942) in the SMNH collection.

*Collection Type:* MuseumCollection/Specimen; *Count:* 3; *Event Date:* 1987-05-04; *Country:* Ukraine; *State Province:* Lvivska; *District:* Yavorivskyi; *Municipality:* Ivano-Frankove; *Reserve:* NR Roztochchia; *Georegion:* FZB; *ROp:* Roztochchia; *Locality:* Zalyvky locality; *Habitat:* fresh hornbeam-oak forest; *Leg:* Melamud V.V.; *Det:* Melamud V.V.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* (= *Brachychthonius jugatus* v. *suecicus* Forsslund; *B. jacoti* Evans; *B. jugatus* Jacot sensu Niedbala, 1972).



*Selnickochthonius zelawaiensis* (Sellnick, 1928)



Inventory number: 1451  
Digital record number: SMNH010601  
Data Centre "Biodiversity of Ukraine": ID 36775

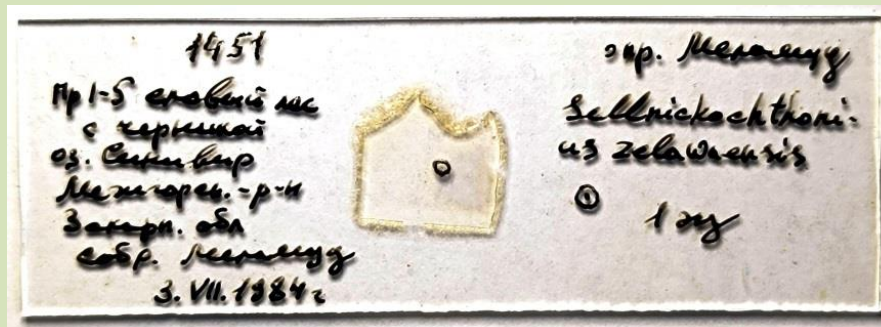


Fig. 15. Specimen of *Selnickochthonius zelawaiensis* (Sellnick, 1928) in the SMNH collection.  
*Collection Type:* MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1984-07-03;  
*Country:* Ukraine; *State Province:* Zakarpatska; *District:* Mizhhirskyi; *Municipality:* Synevyrska Poliana; *Reserve:* NNP Synevyr; *Georegion:* UC: OCVV: Gg: Inner Gorgany range; *Locality:* Synevyr lake; *Habitat:* spruce forest + blueberry; *Leg:* Melamud V.V.; *Det:* Melamud V.V.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* - .

*Synchthonius crenulatus* (Jacot, 1938)



Inventory number: 1452  
Digital record number: SMNH010604  
Data Centre "Biodiversity of Ukraine": ID 36776

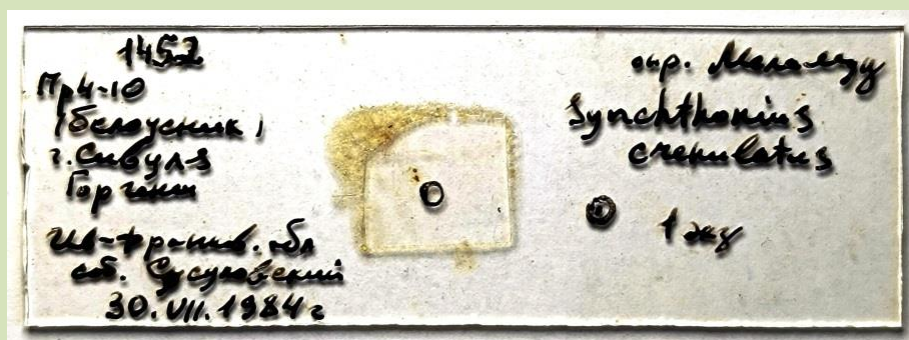


Fig. 16. Specimen of *Synchthonius crenulatus* (Jacot, 1938) in the SMNH collection.  
*Collection Type:* MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1984-07-30;  
*Country:* Ukraine; *State Province:* Ivano-Frankivska; *District:* Rozhniativskyi; *Municipality:* Osmoloda; *Reserve:* NNP Syniohora; *Georegion:* UC: OCVV: Gg: Outer Gorgany range; *Locality:* Syvulia Mt; *Habitat:* *Nardus* sp.; *Leg:* Susulovskyi A.S.; *Det:* Melamud V.V.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* ( = *S. boschmai* v.d. Hammen, 1952).

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## INDEX

Acari	40
Acariformes	40
Actinochaetida	40
Aspleniaceae	15, 30
<i>Asplenium</i>	30
<i>Asplenium septentrionale</i> (L.) Hoffm.	15-29
Brachychthoniidae	31
<i>B. jacoti</i> Evans	35, 37, 38
<i>B. jugatus</i> Jacot sensu Niedbala, 1972	35, 37, 38
<i>Brachychthonius jugatus</i> v. <i>suecicus</i> Forsslund	35, 37, 38
<i>Brachychthonius scalaris</i> Forsslund, 1942	34
Brachytheceiaceae	2-4
<i>Calosoma</i>	94
Carabidae	2-4, 41, 94, 96, 115
Caraboidea	94, 115
<i>Carabus</i>	94
<i>Carabus estreicheri</i> Fischer von Waldheim, 1822	2-4, 41-57
<i>Carabus excellens</i> Fabricius, 1801	41-43, 57-93
<i>C. excellens excellens</i> Fabricius, 1798	43
<i>C. excellens frivaldskyi</i> Kraatz, 1887	43
Coleoptera	2-4, 41, 94, 96, 115
Crabronidae	125
<i>Cychnus</i>	94
<i>Eobrachychthonius oudemansi</i> van der Hammen 1952	31, 36
<i>Hensenia</i>	
Hymenoptera	116, 117, 125
Hypnales	2-4
Insecta	45, 117
<i>Liochthonius alpestris</i> (Forsslund, 1958)	31, 32
<i>Liochthonius brevis</i> (Michael, 1888),	31, 33
<i>Liochthonius hystricinus</i> (Forsslund, 1942),	31, 32
<i>Liochthonius muscorum</i> Forsslund, 1964,	31, 33, 34, 36
<i>Liochthonius sellnicki</i> (Thor, 1930),	31, 34
<i>Nebria picicornis</i> (Fabricius, 1792)	96-114
Oribatei	40
Oribatida	31, 40
<i>Palamocladium euchloron</i> (Müll. Hal.) Wijk et Margad.	2-13
Polypodiopsida	15
Pompilidae	125
Sarcoptiformes	31
<i>Sceliphron</i>	116-125
<i>Sceliphron caementarium</i> (Drury, 1773)	116
<i>Sceliphron curvatum</i> (Smith, 1870)	116, 125
<i>Sceliphron deforme</i> (F. Smith, 1856)	116, 125
<i>Sceliphron destillatorium</i> (Illager, 1807)	116-125
<i>Sceliphron formosum</i> (F. Smith, 1856)	125

<i>Sceliphron madraspatanum</i> (Fabricius, 1781)	116
<i>Sceliphron spirifex</i> (Linnaeus, 1758)	116, 125
Scoliidae	125
<i>Sellnickochthonius suecicus</i> (Forsslund 1942)	31, 35, 37, 38
<i>Sellnickochthonius zelawaiensis</i> (Sellnick, 1928)	31, 39
Sphecidae	116, 117, 125
<i>Synchthonius boschmai</i> v.d. Hammen, 1952	39
<i>Synchthonius crenulatus</i> (Jacot, 1938)	31, 39
Tracheophyta	15



## CONTENTS

LIST OF ABBREVIATIONS	3
PREFACE	4
<b>Savytska A.</b> Catalogue of <i>Palamocladium euchloron</i> (Müll. Hal.) Wijk et Margad. (Hypnales, Brachytheciaceae) specimens deposited in the State Museum of Natural History NASU, Lviv, Ukraine	5
<b>Kuzyarin O.</b> Catalogue of <i>Asplenium septentrionale</i> (L.) (Tracheophyta, Polypodiopsida, Aspleniaceae) specimens deposited in the State Museum of Natural History NASU, Lviv, Ukraine	15
<b>Hushtan K., Hushtan H.</b> Catalogue of Brachychthoniidae (Sarcoptiformes, Oribatida) specimens deposited in the State Museum of Natural History NASU, Lviv, Ukraine	31
<b>Rizun V.</b> Catalogue of <i>Carabus estreicheri</i> Fischer von Waldheim, 1820 & <i>Carabus excellens</i> Fabricius, 1798 (Coleoptera, Carabidae) specimens deposited in the State Museum of Natural History NASU, Lviv, Ukraine	41
<b>Rizun V.</b> Catalogue of <i>Nebria picicornis</i> (Fabricius, 1792) (Coleoptera, Carabidae) specimens deposited in the State Museum of Natural History NASU, Lviv, Ukraine	95
<b>Pytel-Huta S.</b> Catalogue of <i>Sceliphron destillatorium</i> (Illager, 1807) (Hymenoptera, Sphecidae) specimens deposited in the State Museum of Natural History NASU, Lviv, Ukraine	115
INDEX	125
CONTENTS	127

**Національна академія наук України  
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