



# CATALOGUE

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

Herbarium, entomological  
& mammological collections

(Scientific-reference edition)

Catalogue of the digitized collections, deposited in the State Museum of Natural History, National Academy of Sciences of Ukraine. Issue 1. Herbarium, entomological & mammological collections. – Lviv, 2023. – 250 p. [Electronic publication]

Abstract. The cataloging of moss and fern samples and specimens dragonflies, beetles, lacewings, bumblebees and felids from the collection of the State Museum of Natural History, National Academy of Sciences of Ukraine, has been started. In this first part of the catalogue, we present precise information about 38 species and 425 digitized specimens of biota groups mentioned above. Four species *Rhysodes sulcatus* (Fabricius, 1787) (Coleoptera, Carabidae), *Bombus muscorum* (Linnaeus, 1758) (Hymenoptera, Apidae), *Felis silvestris* Schreber, 1775, *Lynx lynx* (Linnaeus, 1758) (Mammalia, Carnivora) are listed in the Red Data Book of Ukraine.

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

Key words: mosses, ferns, dragonflies, ground beetles, minute tree-fungus beetles, jewel beetles, lacewings, bumblebees, felids, 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  
CBAzL – Black Sea-Azov land  
CrMts – Crimean Mountains  
CsCp – Ciscarpathians' Upland  
DCBU – Data Centre “Biodiversity of Ukraine”  
DnDpL – Dnister-Dnipro land  
EBs – Eastern Beskydy  
Event Date format – yyyy-mm-dd,  
FSZ – Forest-Steppe zone,  
FZB – Temperate broad-leaf forest zone,  
FZM – Mixed forest zone  
Gg – Gorgany massif  
LAL – Landscape Architecture Landmark  
LN – Landmark of Nature  
MrCh – Marmarosh-Chyvchyny region  
NNP – National Nature Park  
NR – Nature Reserve  
OCVV – Outercarpathians and Vododilno-Verkhovynska oblasti  
PBC – Pokutsko-Bukovynski Carpathians  
PIChr – Polonynsko-Chornohirska region  
Polonyna – mountain meadow in the Ukrainian Carpathians  
RLP – Regional Landscape Park  
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  
UC – Ukrainian Carpathians  
ZAK – Zakaznyk (a type of protected area in Ukraine that meets the World Conservation Union's (IUCN) criteria of the category IV, or more frequently, the category VI)

## 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 research in biology and ecology of insects, which can help in 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 XIX century were granted the status of National heritage. Over the past seven 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 58 thousand records, over 19 thousand of which are from the collection of the SMNH. Now above 3500 items (2000 mosses and vascular plants samples and 1500 insects and mammals specimens) are digitized and the process of digitization is ongoing.

This catalog contains data on 38 species: mosses (61 samples), ferns (67), dragonflies (48 specimens), beetles (ground beetles – 31 spec., minute tree-fungus beetles – 87 spec., jewel beetles – 10 spec.), lacewings (29 spec.), bumblebees (57 spec.) and felids (34 spec.) from the collection of the SMNH. In total 425 items. Four species, *Rhysodes sulcatus* (Fabricius, 1787) (Coleoptera, Carabidae), *Bombus muscorum* (Linnaeus, 1758) (Hymenoptera, Apidae), *Felis silvestris* Schreber, 1775, *Lynx lynx* (Linnaeus, 1758) (Mammalia, Carnivora) are listed in 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 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 BOMBUS MUSCORUM (LINNAEUS, 1758)  
(HYMENOPTERA, APIDAE) SPECIMENS DEPOSITED IN THE STATE  
MUSEUM OF NATURAL HISTORY NASU, LVIV, UKRAINE**

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*Bombus muscorum* (Linnaeus, 1758) belongs to the subgenus *Thoracobombus* and is one of the 40 bumblebee species that occur in Ukraine. This Palaearctic species has been found from Ireland in the west to Mongolia in the east, and from the latitude of Stockholm to Crete. It is generally uncommon to very uncommon in all its continental locations (Rasmont, Iserbyt, 2010-2012). It is very rare south of the latitude 40N. The species has not been observed in many of the locations of west, central and south-east Europe where it occurred one century ago, and considered to be threatened: vulnerable in the IUCN Red List of European Bees (Rasmont et al., 2015). *B. muscorum* is currently declining where its extinction is projected for the future. It is assumed to have a low dispersal capability. The area of its suitable climatic niche would be considerably reduced leading to local extinctions across large parts of Europe. The potential of the species to persist in the remaining, much smaller area is questionable.

The species queens emerge in late spring, make nests on or under the ground surface and develop small colonies. In Ukraine *B. muscorum* has patchy distribution and inhabits grasslands in river valleys, water meadows, and wet meadows on the banks of lakes and ponds, rich in forbs containing floral resources, suitable for this species. The species is included into the Red Data Book of Ukraine as rare one. Recently its populations have significantly declined due to loss of natural habitats (Konovalova, 2010).

In the entomological collection of the State Museum of Natural History, National Academy of Sciences of Ukraine, 57 specimens of *B. muscorum* have been deposited. Eight specimens belong to an old historical collection, made between the sixties of the 19-th century and 1939. All were collected in Lvivska and Ternopil'ska provinces of Ukraine. Judging by the writing style on labels, four of them with high probability were collected by A. Wierzejski (Inventory number: E2.20.22.01.03/01, Digital record number: SMNH002686, Data Centre "Biodiversity of Ukraine": ID 8684; Inventory number: E2.20.22.01.03/03, Digital record number: SMNH002688, Data Centre "Biodiversity of Ukraine": ID 8686; Inventory number: E2.20.22.01.03/06, Digital record number: SMNH002689, Data Centre "Biodiversity of Ukraine": ID 8687; Inventory number: E2.20.22.01.03/07, Digital record number: SMNH002690, Data Centre "Biodiversity of Ukraine": ID 8688), and the remaining four – by J. Sniezek (Inventory number: E2.20.22.01.03/02, Digital record number: SMNH002687, Data Centre "Biodiversity of Ukraine": ID 8685; Inventory number: E2.20.22.01.03/04, Digital

record number: SMNH007325, Data Centre “Biodiversity of Ukraine”: ID 56835; Inventory number: E2.20.22.01.03/05, Digital record number: SMNH007326, Data Centre “Biodiversity of Ukraine”: ID 56836; Inventory number: E2.20.22.01.03/08, Digital record number: SMNH002691, Data Centre “Biodiversity of Ukraine”: ID 8689).

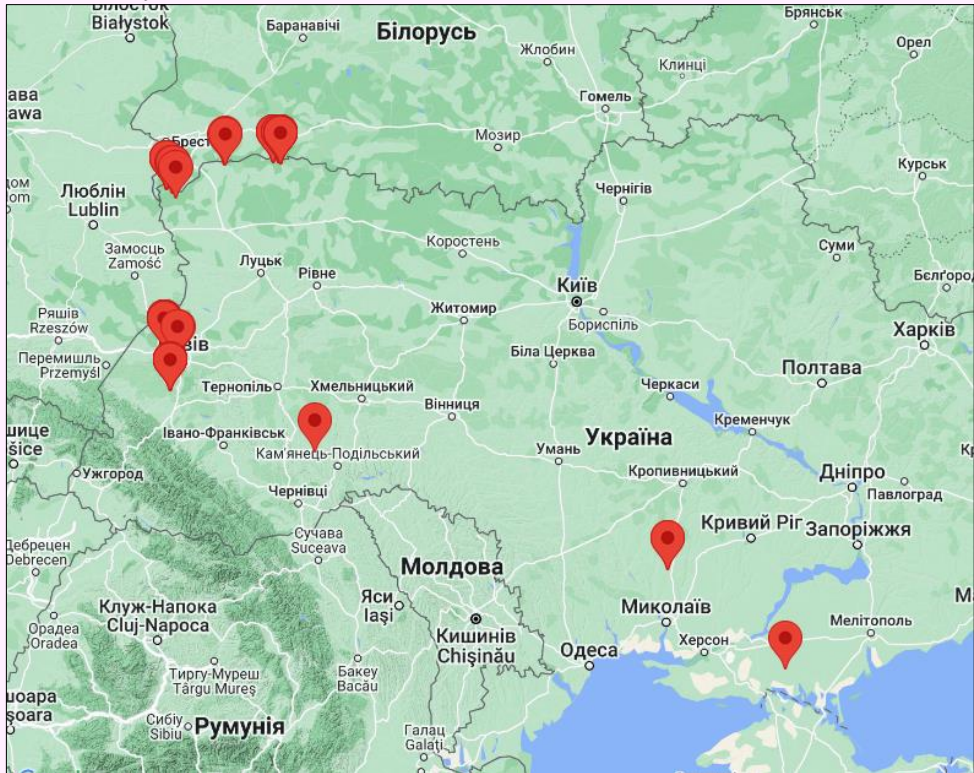


Fig. 1. Findings of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

The recent part of the collection includes specimens, found from 1998 to 2006 in Lvivska, Ternopil'ska, Volyn'ska, Mykolaiv'ska and Kherson'ska provinces of Ukraine (fig. 1), and in France (1 spec.).

The collection of *B. muscorum* represents all three castes of the species, where workers and males prevail. Bumblebees were collected from the beginning of May to the end of September. The collection represents the following physiographic regions: FZB: ROP: Roztochchia; FZB: ROP: Opillia; FZB: West Podillia Upland; FZM: Volyn'ske Polissia; SZ: SZN: DnDpL: South Dnipro Upland; SZ: SZS: CBazL: Syvash-Azov Lowland.

The bumblebee specimens were collected by the collectors as follows: O. Holovachov, I. Konovalova, V. Rizun, O. Vovk.

All samples are included in the electronic databases of the museum, in particular Data Centre “Biodiversity of Ukraine” <<http://dc.smnh.org/>>.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/01  
Digital record number: SMNH002686  
Data Centre "Biodiversity of Ukraine": ID 8684

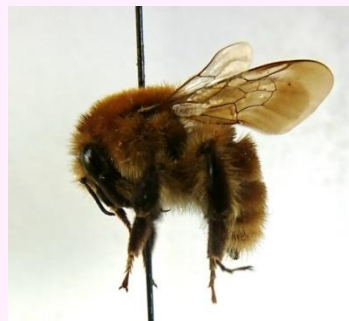


Fig. 2. Specimen of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

Collection Type: Museum Collection / Specimen. Count: 1. Event Date: 0000-05-13. Country: Ukraine. State Province: Lvivska. Municipality: Lviv. Locality: Klepariv locality. Habitat: water meadow. Georegion: FZB: ROp: Roztochchia. Leg: ?Wierzejski A. Det: unknown. Institution Code: SMNH. Remarks: queen; beginning of the 20-th century till 1939.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/02  
Digital record number: SMNH002687  
Data Centre "Biodiversity of Ukraine": ID 8685



Fig. 3. Specimen of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

Collection Type: Museum Collection / Specimen. Count: 1. Event Date: 0000-00-00. Country: Ukraine. State Province: - . Habitat: - . Georegion: - . Leg: ?Sniezek J. Det: unknown. Institution Code: SMNH. Remarks: queen; beginning of the 20-th century till 1939.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/03  
Digital record number: SMNH002688  
Data Centre "Biodiversity of Ukraine": ID 8686



Fig. 4. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 0000-06-01. *Country:* Ukraine. *State Province:* Ternopilska. *District:* Borshchivskiyi. *Municipality:* Skala-Podilska. *Habitat:* water meadow. *Georegion:* FZB: West Podillia Upland. *Leg:* ?Wierzejski A. *Det:* unknown. *Institution Code:* SMNH. *Remarks:* queen; beginning of the 20-th century till 1939.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/04  
Digital record number: SMNH007325  
Data Centre "Biodiversity of Ukraine": ID 56835



Fig. 5. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 0000-00-00. *Country:* Ukraine. *State Province:* - . *Habitat:* - . *Georegion:* - . *Leg:* ?Sniezek J. *Det:* unknown. *Institution Code:* SMNH. *Remarks:* queen; beginning of the 20-th century till 1939.



***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/05  
Digital record number: SMNH007326  
Data Centre "Biodiversity of Ukraine": ID 56836



Fig. 6. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* MuseumCollection/Specimen. *Count:* 1. *Event Date:* 0000-00-00. *Country:* Ukraine. *State Province:* - . *Habitat:* - . *Georegion:* - . *Leg:* ?Sniezek J. *Det:* unknown. *Institution Code:* SMNH. *Remarks:* queen; beginning of the 20-th century till 1939.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/06  
Digital record number: SMNH002689  
Data Centre "Biodiversity of Ukraine": ID 8687



Fig. 7. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 0000-06-07. *Country:* Ukraine. *State Province:* Lvivska. *Municipality:* Lviv. *Locality:* Bilohorshcha locality. *Habitat:* meadow bog. *Reserve:* ZAK Torfovyshe Bilohorshcha. *Georegion:* FZB: ROP: Roztochia. *Leg:* ?Wierzejski A. *Det:* unknown. *Institution Code:* SMNH. *Remarks:* queen; beginning of the 20-th century till 1939.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/07  
Digital record number: SMNH002690  
Data Centre "Biodiversity of Ukraine": ID 8688



Fig. 8. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

Collection Type: Museum Collection/Specimen. Count: 1. Event Date: 0000-00-00.  
Country: Ukraine. State Province: - . Habitat: - . Georegion: - . Leg: ?Wierzejski A. Det: unknown. Institution Code: SMNH. Remarks: worker; beginning of the 20-th century till 1939.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/08  
Digital record number: SMNH002691  
Data Centre "Biodiversity of Ukraine": ID 8689



Fig. 9. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

Collection Type: Museum Collection / Specimen. Count: 1. Event Date: 0000-00-00.  
Country: Ukraine. State Province: - . Habitat: - . Georegion: - . Leg: ?Sniezek J. Det: unknown. Institution Code: SMNH. Remarks: male; beginning of the 20-th century till 1939.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/09.R  
Digital record number: SMNH002692  
Data Centre "Biodiversity of Ukraine": ID 8690



Fig. 10. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2000-06-28.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Shatskyi. *Municipality:* Pishcha.  
*Locality:* fish-breeding ponds Ladyinka. *Habitat:* lake dam. *Reserve:* NNP Shatskyi.  
*Georegion:* FZM: Volynske Polissia. *Leg:* Holovachov O. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* queen.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/10.R  
Digital record number: SMNH002693  
Data Centre "Biodiversity of Ukraine": ID 8691



Fig. 11. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2000-06-12.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Shatskyi. *Locality:* Peremut Lake, bank.  
*Habitat:* meadow bog. *Reserve:* NNP Shatskyi. *Georegion:* FZM: Volynske Polissia.  
*Leg:* Holovachov O. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* queen.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/11.R  
Digital record number: SMNH002694  
Data Centre "Biodiversity of Ukraine": ID 8692

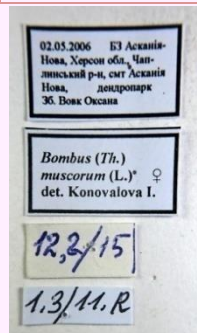


Fig. 12. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-05-02.  
*Country:* Ukraine. *State Province:* Khersonska. *District:* Chaplynskyi. *Municipality:* Askania-Nova. *Locality:* dendrological park. *Habitat:* meadow. *Reserve:* BR Askania-Nova. *Georegion:* SZ: SZS: CBAzL: Syvash-Azov Lowland. *Leg:* Vovk O. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* queen.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/12.R  
Digital record number: SMNH007308  
Data Centre "Biodiversity of Ukraine": ID 56010

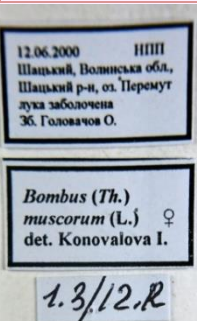


Fig. 13. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2000-06-12.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Shatskyi. *Locality:* Peremut Lake, bank. *Habitat:* meadow bog. *Reserve:* NNP Shatskyi. *Georegion:* FZM: Volynske Polissia. *Leg:* Holovachov O. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* queen

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/13.R  
Digital record number: SMNH002695  
Data Centre "Biodiversity of Ukraine": ID 8699



Fig. 14. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection/Specimen. *Count:* 1. *Event Date:* 2006-06-04.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Mykolaiivskiyi. *Municipality:* Kolodrubyy. *Locality:* flood-lands of the Dnister River. *Habitat:* water meadow. *Reserve:* ZAK Koshiv. *Georegion:* FZB: ROP: Opillia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/14.R  
Digital record number: SMNH002696  
Data Centre "Biodiversity of Ukraine": ID 8700



Fig. 15. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2003-07-01.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Yavorivskiyi. *Municipality:* Stavky. *Locality:* Stavky-Horbky locality. *Habitat:* water meadow. *Reserve:* NR Roztochchia. *Georegion:* FZB: ROP: Roztochchia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/15.R  
Digital record number: SMNH002697  
Data Centre "Biodiversity of Ukraine": ID 8701

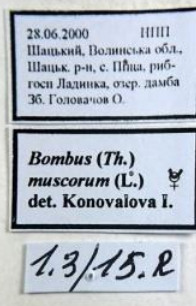


Fig. 16. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2000-06-28.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Shatskyi. *Municipality:* Pishcha.  
*Locality:* fish-breeding ponds Ladyinka. *Habitat:* lake dam. *Reserve:* NNP Shatskyi.  
*Georegion:* FZM: Volynske Polissia. *Leg:* Holovachov O. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/16.R  
Digital record number: SMNH007309  
Data Centre "Biodiversity of Ukraine": ID 56011

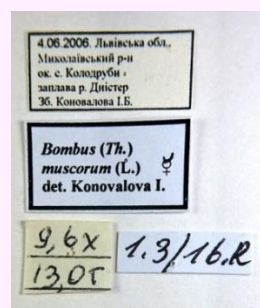


Fig. 17. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-06-04.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Mykolaiivskiy. *Municipality:*  
Kolodruby. *Locality:* flood-lands of the Dnister River. *Habitat:* water meadow. *Reserve:*  
ZAK Koshiv. *Georegion:* FZB: ROp: Opillia. *Leg:* Konovalova I. *Det:* Konovalova I.  
*Institution Code:* SMNH. *Remarks:* worker

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/17.R  
Digital record number: SMNH007311  
Data Centre "Biodiversity of Ukraine": ID 56272

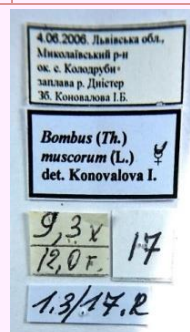


Fig. 18. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-06-04.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Mykolaiivskiy. *Municipality:* Kolodrubyy. *Locality:* flood-lands of the Dnister River. *Habitat:* water meadow. *Reserve:* ZAK Koshiv. *Georegion:* FZB; ROp: Opillia. *Leg:* Konovalova I. *Det:* Konovalova I.  
*Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/18.R  
Digital record number: SMNH007312  
Data Centre "Biodiversity of Ukraine": ID 56273

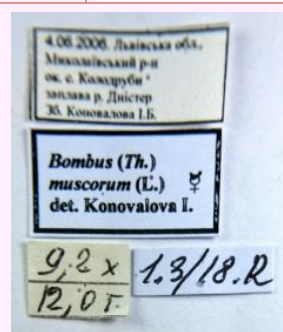


Fig. 19. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* MuseumCollection/Specimen. *Count:* 1. *Event Date:* 2006-06-04.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Mykolaiivskiy. *Municipality:* Kolodrubyy. *Locality:* flood-lands of the Dnister River. *Habitat:* water meadow. *Reserve:* ZAK Koshiv. *Georegion:* FZB; ROp: Opillia. *Leg:* Konovalova I. *Det:* Konovalova I.  
*Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/19.R  
Digital record number: SMNH007313  
Data Centre "Biodiversity of Ukraine": ID 56274



4.06.2006. Львівська обл.  
Миколаївський р-н  
ок. с. Колодруби  
заплава р. Дністер  
Зб. Коновалова І.Б.

*Bombus* (Th.)  
*muscorum* (L.) ♂  
det. Konovalova I.

B,0x 1,3/19.R  
15,0r

Fig. 20. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-06-04.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Mykolaiivskiyi. *Municipality:*  
Kolodrubyy. *Locality:* flood-lands of the Dnister River. *Habitat:* water meadow. *Reserve:*  
ZAK Koshiv. *Georegion:* FZB; ROp: Opillia. *Leg:* Konovalova I. *Det:* Konovalova I.  
*Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/20.R  
Digital record number: SMNH007314  
Data Centre "Biodiversity of Ukraine": ID 56275



4.06.2006. Львівська обл.  
Миколаївський р-н  
ок. с. Колодруби  
заплава р. Дністер  
Зб. Коновалова І.Б.

*Bombus* (Th.)  
*muscorum* (L.) ♂  
det. Konovalova I.

1.3/20.R  
9,4x  
13,0r

Fig. 21. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-06-04.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Mykolaiivskiyi. *Municipality:*  
Kolodrubyy. *Locality:* flood-lands of the Dnister River. *Habitat:* water meadow. *Reserve:*  
ZAK Koshiv. *Georegion:* FZB; ROp: Opillia. *Leg:* Konovalova I. *Det:* Konovalova I.  
*Institution Code:* SMNH. *Remarks:* worker.



***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/21.R  
Digital record number: SMNH002698  
Data Centre "Biodiversity of Ukraine": ID 8702

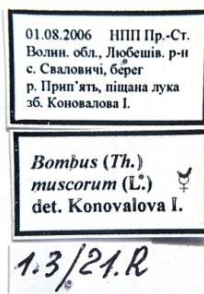
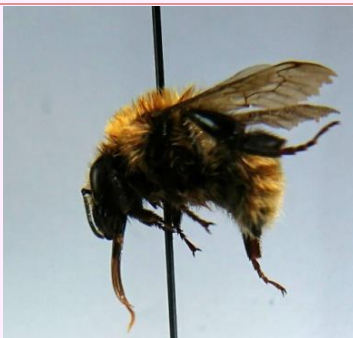


Fig. 22. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type*: Museum Collection / Specimen. *Count*: 1. *Event Date*: 2006-08-01.  
*Country*: Ukraine. *State Province*: Volynska. *District*: Liubeshivskyi. *Municipality*:  
Svalovychi. *Locality*: Prypiat River, bank. *Habitat*: sandy meadow. *Reserve*: NNP Prypiat-  
Stokhid. *Georegion*: FZM: Volynske Polissia. *Leg*: Konovalova I. *Det*: Konovalova I.  
*Institution Code*: SMNH. *Remarks*: worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/22.R  
Digital record number: SMNH007315  
Data Centre "Biodiversity of Ukraine": ID 56276

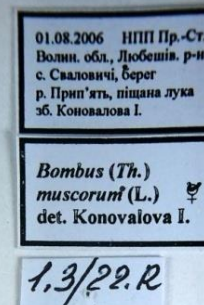
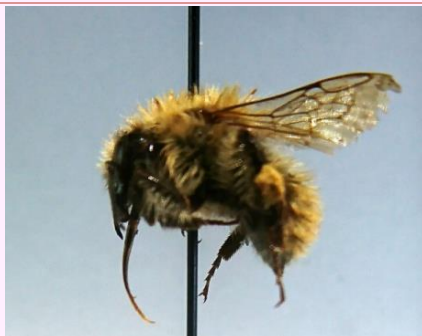


Fig. 23. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type*: Museum Collection / Specimen. *Count*: 1. *Event Date*: 2006-08-01.  
*Country*: Ukraine. *State Province*: Volynska. *District*: Liubeshivskyi. *Municipality*:  
Svalovychi. *Locality*: Prypiat River, bank. *Habitat*: sandy meadow. *Reserve*: NNP Prypiat-  
Stokhid. *Georegion*: FZM: Volynske Polissia. *Leg*: Konovalova I. *Det*: Konovalova I.  
*Institution Code*: SMNH. *Remarks*: worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/23.R  
Digital record number: SMNH007316  
Data Centre "Biodiversity of Ukraine": ID 56277



28.06.2000 НПП  
Шацький, Волинська обл.,  
Шацьк. р-н, с. Піща, риб-  
госп Ладінка, озер. дамба  
зб. Головачов О.

*Bombus* (Th.)  
*muscorum* (L.) ♂  
det. Konovalova I.

1.3/23.R

Fig. 24. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type*: Museum Collection / Specimen. *Count*: 1. *Event Date*: 2000-06-28.  
*Country*: Ukraine. *State Province*: Volynska. *District*: Shatskyi. *Municipality*: Pishcha.  
*Locality*: fish-breeding ponds Ladyinka. *Habitat*: lake dam. *Reserve*: NNP Shatskyi.  
*Georegion*: FZM: Volynske Polissia. *Leg*: Holovachov O. *Det*: Konovalova I. *Institution Code*: SMNH. *Remarks*: worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/24.R  
Digital record number: SMNH002699  
Data Centre "Biodiversity of Ukraine": ID 8703



05.08.2006 НПП Пр.-Ст.  
Волин. обл., Любешів. р-н  
с. Сваловичі, берег  
р. Прип'ять, піщана лука  
зб. Конавалова І.

*Bombus* (Th.)  
*muscorum* (L.) ♂  
det. Konovalova I.

1.3/24.R 8.0  
13.0

Fig. 25. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type*: Museum Collection / Specimen. *Count*: 1. *Event Date*: 2006-08-05.  
*Country*: Ukraine. *State Province*: Volynska. *District*: Liubeshivskyi. *Municipality*:  
Svalovychi. *Locality*: Prypiat River, bank. *Habitat*: sandy meadow. *Reserve*: NNP Prypiat-  
Stokhid. *Georegion*: FZM: Volynske Polissia. *Leg*: Konovalova I. *Det*: Konovalova I.  
*Institution Code*: SMNH. *Remarks*: male.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/25.R  
Digital record number: SMNH002700  
Data Centre "Biodiversity of Ukraine": ID 8704

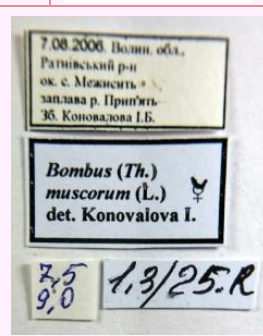


Fig. 26. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-07.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Ratnivskyi. *Municipality:* Mezhyssyt.  
*Locality:* flood-lands of the Prypiat River. *Habitat:* wet meadow. *Georegion:* FZM: Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/26.R  
Digital record number: SMNH002701  
Data Centre "Biodiversity of Ukraine": ID 8705

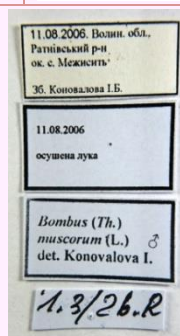


Fig. 27. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-11.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Ratnivskyi. *Municipality:* Mezhyssyt.  
*Habitat:* drained meadow. *Georegion:* FZM: Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* male.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/27.R  
Digital record number: SMNH002702  
Data Centre "Biodiversity of Ukraine": ID 8706

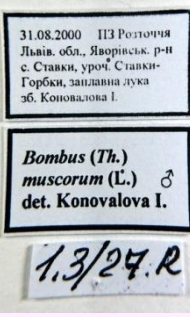


Fig. 28. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2000-08-31.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Yavorivskyi. *Municipality:* Stavky.  
*Locality:* Stavky-Horbky locality. *Habitat:* water meadow. *Reserve:* NR Roztochchia.  
*Georegion:* FZB: ROP: Roztochchia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* male.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/28.R  
Digital record number: SMNH002703  
Data Centre "Biodiversity of Ukraine": ID 8707

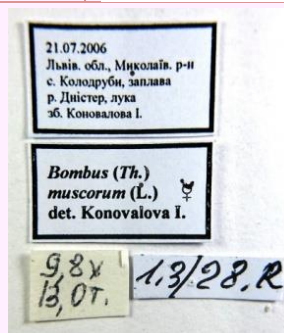


Fig. 29. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-07-21.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Mykolaiivskyi. *Municipality:* Kolodrubyy.  
*Locality:* flood-lands of the Dnister River. *Habitat:* moving meadow. *Georegion:* FZB: ROP: Opillia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/29.R  
Digital record number: SMNH002704  
Data Centre "Biodiversity of Ukraine": ID 8708

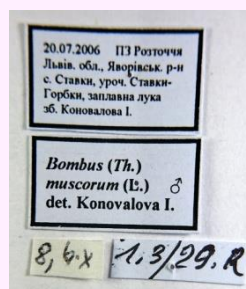


Fig. 30. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-07-20.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Yavorivskyi. *Municipality:* Stavky.  
*Locality:* Stavky-Horbky locality. *Habitat:* water meadow. *Reserve:* NR Roztochchia.  
*Georegion:* FZB: ROp: Roztochchia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* male.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/30.R  
Digital record number: SMNH002705  
Data Centre "Biodiversity of Ukraine": ID 8709

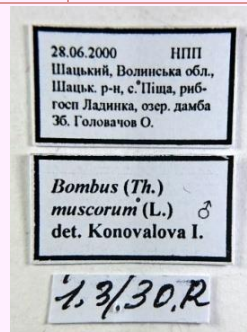


Fig. 31. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2000-06-28.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Shatskyi. *Municipality:* Pishcha.  
*Locality:* fish-breeding ponds Ladynka. *Habitat:* lake dam. *Reserve:* NNP Shatskyi.  
*Georegion:* FZM: Volynske Polissia. *Leg:* Holovachov O. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* male.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/31.R  
Digital record number: SMNH002706  
Data Centre "Biodiversity of Ukraine": ID 8728



13.08.2006  
Волинська обл., Ратнівськ.  
р-н, с. Межисить,  
лука-пасовище  
зб. Коновалова І.

*Bombus* (Th.)  
*muscorum* (L.) ♀  
det. Konovalova I.

90 1.3/31.R  
12,0

Fig. 32. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-13.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Ratnivskiyi. *Municipality:* Mezhyssyt.  
*Habitat:* meadow-pasture. *Georegion:* FZM: Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/32.R  
Digital record number: SMNH002707  
Data Centre "Biodiversity of Ukraine": ID 8729



20.07.2006 ПЗ Розточчя  
Львів. обл., Яворівськ. р-н  
сміт Івано-Франкове  
озерна дамба  
зб. Коновалова І.

*Bombus* (Th.)  
*muscorum* (L.) ♀  
det. Konovalova I.

8,4x 1.3/32.R  
10,0T

Fig. 33. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-07-20.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Yavorivskiyi. *Municipality:* Ivano-Frankove.  
*Habitat:* lake dam. *Reserve:* NR Roztochchia. *Georegion:* FZB: ROp: Roztochchia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/33.R  
Digital record number: SMNH002708  
Data Centre "Biodiversity of Ukraine": ID 8730

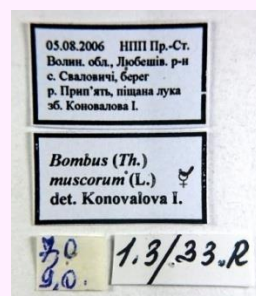


Fig. 34. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-05.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Liubeshivskiyi. *Municipality:* Svalovychi. *Locality:* Prypiat River, bank. *Habitat:* sandy meadow. *Reserve:* NNP Prypiat-Stokhid. *Georegion:* FZM: Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/34.R  
Digital record number: SMNH002709  
Data Centre "Biodiversity of Ukraine": ID 8731

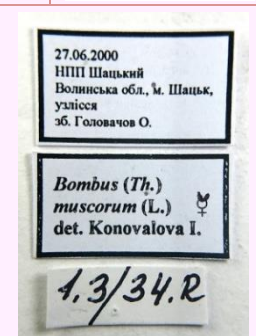


Fig. 35. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2000-06-27.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Shatskyi. *Municipality:* Shatsk. *Habitat:* forest edge. *Reserve:* NNP Shatskyi. *Georegion:* FZM: Volynske Polissia. *Leg:* Holovachov O. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/35.R  
Digital record number: SMNH002710  
Data Centre "Biodiversity of Ukraine": ID 8732



Fig. 36. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2000-06-12.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Shatskyi. *Municipality:* Shatsk.  
*Locality:* Peremut Lake. *Habitat:* meadow bog. *Reserve:* NNP Shatskyi. *Georegion:* FZM:  
Volynske Polissia. *Leg:* Holovachov O. *Det:* Konovalova I. *Institution Code:* SMNH.  
*Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/36.R  
Digital record number: SMNH002711  
Data Centre "Biodiversity of Ukraine": ID 8733

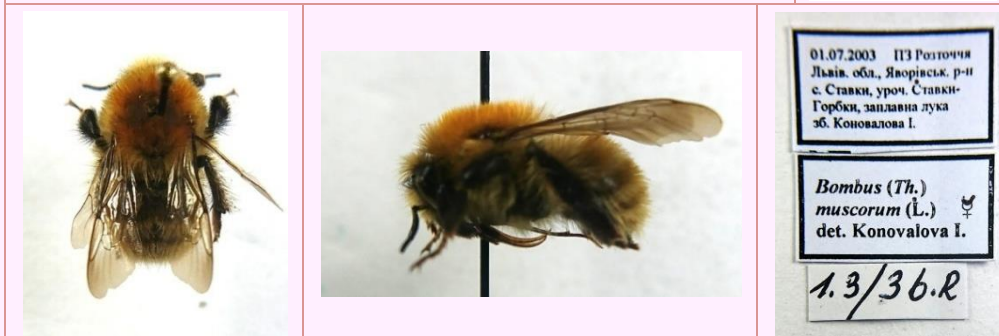


Fig. 37. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.  
*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2003-07-01.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Yavorivskyi. *Municipality:* Stavky.  
*Locality:* Stavky-Horbky locality. *Habitat:* wet meadow. *Reserve:* NR Roztochchia.  
*Georegion:* FZB: ROp: Roztochchia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH.  
*Remarks:* worker.



***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/37.R  
Digital record number: SMNH002712  
Data Centre "Biodiversity of Ukraine": ID 8734

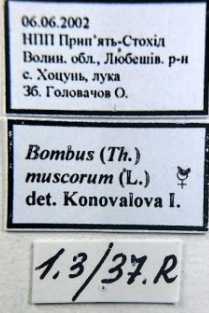


Fig. 38. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

Collection Type: Museum Collection / Specimen. Count: 1. Event Date: 2002-06-06.  
Country: Ukraine. State Province: Volynska. District: Liubeshivskiyi. Municipality:  
Khotsun. Habitat: meadow. Reserve: NNP Prypiat-Stokhid. Georegion: FZM: Volynske  
Polissia. Leg: Holovachov O. Det: Konovalova I. Institution Code: SMNH. Remarks:  
worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/38.R  
Digital record number: SMNH007317  
Data Centre "Biodiversity of Ukraine": ID 56770

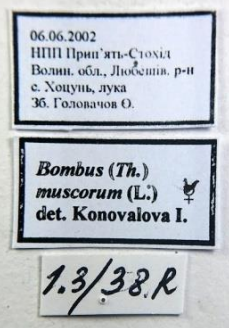
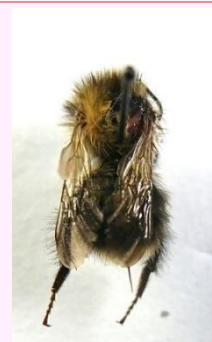


Fig. 39. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

Collection Type: Museum Collection / Specimen. Count: 1. Event Date: 2002-06-06.  
Country: Ukraine. State Province: Volynska. District: Liubeshivskiyi. Municipality:  
Khotsun. Habitat: meadow. Reserve: NNP Prypiat-Stokhid. Georegion: FZM: Volynske  
Polissia. Leg: Holovachov O. Det: Konovalova I. Institution Code: SMNH. Remarks:  
worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/39.R  
Digital record number: SMNH007318  
Data Centre "Biodiversity of Ukraine": ID 56771



Fig. 40. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2002-06-06. *Country:* Ukraine. *State Province:* Volynska. *District:* Liubeshivskiyi. *Municipality:* Khotsun. *Habitat:* meadow. *Reserve:* NNP Prypiat-Stokhid. *Georegion:* FZM: Volynske Polissia. *Leg:* Holovachov O. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/40.R  
Digital record number: SMNH002987  
Data Centre "Biodiversity of Ukraine": ID 11587



Fig. 41. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2000-06-28. *Country:* Ukraine. *State Province:* Volynska. *District:* Shatskyi. *Municipality:* Pishcha. *Locality:* fish-breeding ponds Ladyinka. *Habitat:* lake dam. *Reserve:* NNP Prypiat-Stokhid. *Georegion:* FZM: Volynske Polissia. *Leg:* Holovachov O. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/41.R  
Digital record number: SMNH002988  
Data Centre "Biodiversity of Ukraine": ID 11588



10.06.1999 ПЗ Розточчя  
Львівська область  
Яворівський р-н  
с-т Івано-Франкове  
зб. Конавалова І.

*Bombus* (Th.)  
*muscorum* (L.) ♀  
det. Konovalova I.

1.3/41.R

Fig. 42. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 1999-06-10.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Yavorivskyi. *Municipality:* Ivano-Frankove. *Reserve:* NR Roztochchia. *Georegion:* FZB: ROP: Roztochchia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/42.R  
Digital record number: SMNH002989  
Data Centre "Biodiversity of Ukraine": ID 11589



09.09.2000 ПЗ Розточчя  
Львів. обл., Яворівськ. р-н  
с. Ставки, уроч. Ставки-  
Горбки, лука заболочена  
зб. Конавалова І.

*Bombus* (Th.)  
*muscorum* (L.) ♀  
det. Konovalova I.

1.3/42.R

Fig. 43. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2000-09-09.  
*Country:* Ukraine. *State Province:* Lvivska. *District:* Yavorivskyi. *Municipality:* Stavky.  
*Locality:* Stavky-Horbky locality. *Habitat:* meadow bog. *Reserve:* NR Roztochchia.  
*Georegion:* FZB: ROP: Roztochchia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/43.R  
Digital record number: SMNH002991  
Data Centre "Biodiversity of Ukraine": ID 11591

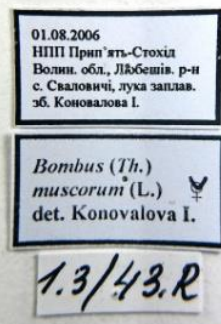


Fig. 44. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-01. *Country:* Ukraine. *State Province:* Volynska. *District:* Liubeshivskiyi. *Municipality:* Svalovychi. *Habitat:* water meadow. *Reserve:* NNP Prypiat-Stokhid. *Georegion:* FZM: Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/44.R  
Digital record number: SMNH007319  
Data Centre "Biodiversity of Ukraine": ID 56829



Fig. 45. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-01. *Country:* Ukraine. *State Province:* Volynska. *District:* Liubeshivskiyi. *Municipality:* Svalovychi. *Habitat:* water meadow. *Reserve:* NNP Prypiat-Stokhid. *Georegion:* FZM: Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/45.R  
Digital record number: SMNH002992  
Data Centre "Biodiversity of Ukraine": ID 11593



08.2006. Волин. обл.,  
Любешів. р-н,  
ок. с. Сваловичі, РЛП  
"Прип'ять-Стохід".  
Зб. Коновалова І.Б.

*Bombus* (Th.)  
*muscorum* (L.) ♀  
det. Konovalova I.

1.3/45.R 6.1/2  
8.5

Fig. 46. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-05. *Country:* Ukraine. *State Province:* Volynska. *District:* Liubeshivskiyi. *Municipality:* Svalovychi. *Habitat:* water meadow. *Reserve:* NNP Prypiat-Stokhid. *Georegion:* FZM: Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/46.R  
Digital record number: SMNH002994  
Data Centre "Biodiversity of Ukraine": ID 11595



31.08.2000 ПЗ Розточчя  
Львів. обл., Яворівськ. р-н  
с. Ставки, уроч. Ставки-  
Горбки, заплавна лука  
зб. Коновалова І.

*Bombus* (Th.)  
*muscorum* (L.) ♀  
det. Konovalova I.

1.3/46.R

Fig. 47. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2000-08-31. *Country:* Ukraine. *State Province:* Lvivska. *District:* Yavorivskiyi. *Municipality:* Stavky. *Locality:* Stavky-Horbky locality. *Habitat:* water meadow. *Reserve:* NR Roztochchia. *Georegion:* FZB: ROp: Roztochchia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* worker.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/47.R  
Digital record number: SMNH002995  
Data Centre "Biodiversity of Ukraine": ID 11596



20.05.1998. Єланецький степ.  
35. Різун В.

20.05.1998 ПЗ Єланецький степ, Миколаїв. обл. Єланецький р-н, с. Водино-Лорине 5 км SW степова лука

*Bombus* (Th.)  
*muscorum* (L.) ♀  
det. Konovalova I.

1.3/47.R

Fig. 48. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 1998-05-20. *Country:* Ukraine. *State Province:* Mykolaivska. *District:* Yelanetskyi. *Municipality:* Vodiano-Loryne 5 km SW. *Locality:* Yelanetskyi Step. *Habitat:* steppe-meadow. *Reserve:* NR Yelanetskyi Step. *Georegion:* SZ: SZN: DnDpL: South Dnipro Upland. *Leg:* Rizun V. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* queen.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/48.R  
Digital record number: SMNH002996  
Data Centre "Biodiversity of Ukraine": ID 11597



24.5.1998. Зап. Є.  
Єланецький степ. 35. Різун.

24.05.1998 ПЗ Єланецький степ, Миколаїв. обл. Єланецький р-н, с. Водино-Лорине 5 км SW степова лука

*Bombus* (Th.)  
*muscorum* (L.) ♀  
det. Konovalova I.

1.3/48.R

Fig. 49. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 1998-05-24. *Country:* Ukraine. *State Province:* Mykolaivska. *District:* Yelanetskyi. *Municipality:* Vodiano-Loryne 5 km SW. *Locality:* Yelanetskyi Step. *Habitat:* steppe-meadow. *Reserve:* NR Yelanetskyi Step. *Georegion:* SZ: SZN: DnDpL: South Dnipro Upland. *Leg:* Rizun V. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* queen

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/49.R  
Digital record number: SMNH007310  
Data Centre "Biodiversity of Ukraine": ID 56086



26.08.2004  
Франція  
м. Париж, зелена зона  
Зб. Різун В.

*Bombus* (Th.)  
*muscorum* (L.) ♂  
det. Konovalova I.

1.3/49.R

Fig. 50. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type*: Museum Collection / Specimen. *Count*: 1. *Event Date*: 2004-09-26.  
*Country*: France. *Municipality*: Paris. *Locality*: urban green zone. *Leg*: Rizun V. *Det*:  
Konovalova I. *Institution Code*: SMNH. *Remarks*: male.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/50.R  
Digital record number: SMNH002990  
Data Centre "Biodiversity of Ukraine": ID 11590



1.08.2006. Волин. обл.  
Любешів. р-н,  
ок. с. Сваловичі, ФЛП  
"Прип'ять-Стокід".  
Зб. Коновалова І.Б.

*Bombus* (Th.)  
*muscorum* (L.) ♂  
det. Konovalova I.

1.3/50.R

Fig. 51. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type*: Museum Collection / Specimen. *Count*: 1. *Event Date*: 2006-08-01.  
*Country*: Ukraine. *State Province*: Volynska. *District*: Liubeshivskyi. *Municipality*:  
Svalovychi. *Habitat*: water meadow. *Reserve*: NNP Prypiat-Stokhid. *Georegion*: FZM:  
Volynske Polissia. *Leg*: Konovalova I. *Det*: Konovalova I. *Institution Code*: SMNH.  
*Remarks*: male.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/51.R  
Digital record number: SMNH002993  
Data Centre "Biodiversity of Ukraine": ID 11594

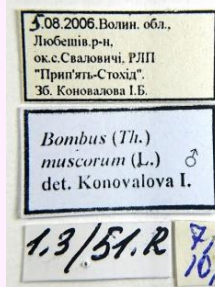


Fig. 52. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-05.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Liubeshivskyi. *Municipality:*  
Svalovychi. *Habitat:* water meadow. *Reserve:* NNP Prypiat-Stokhid. *Georegion:* FZM:  
Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH.  
*Remarks:* male.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/52.R  
Digital record number: SMNH002997  
Data Centre "Biodiversity of Ukraine": ID 11724

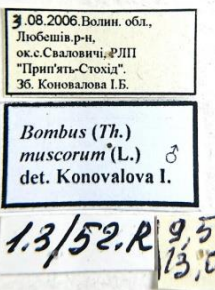


Fig. 53. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-05.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Liubeshivskyi. *Municipality:*  
Svalovychi. *Locality:* Prypiat River, bank. *Habitat:* water meadow. *Reserve:* NNP Prypiat-  
Stokhid. *Georegion:* FZM: Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I.  
*Institution Code:* SMNH. *Remarks:* male.



***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/53.R  
Digital record number: SMNH007320  
Data Centre "Biodiversity of Ukraine": ID 56830



Fig. 54. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-01. *Country:* Ukraine. *State Province:* Volynska. *District:* Liubeshivskyi. *Municipality:* Svalovychi. *Habitat:* water meadow. *Reserve:* NNP Prypiat-Stokhid. *Georegion:* FZM: Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* male.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/54.R  
Digital record number: SMNH007321  
Data Centre "Biodiversity of Ukraine": ID 56831

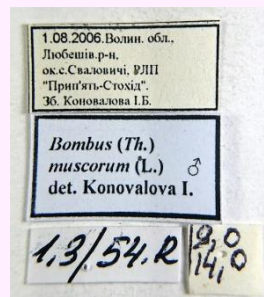


Fig. 55. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-01. *Country:* Ukraine. *State Province:* Volynska. *District:* Liubeshivskyi. *Municipality:* Svalovychi. *Habitat:* water meadow. *Reserve:* NNP Prypiat-Stokhid. *Georegion:* FZM: Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* male.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/55.R  
Digital record number: SMNH007322  
Data Centre "Biodiversity of Ukraine": ID 56832

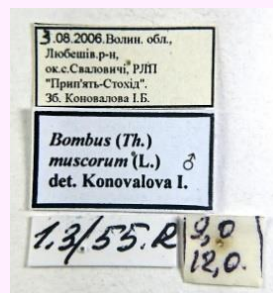


Fig. 56. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-05.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Liubeshivskyi. *Municipality:* Svalovychi. *Locality:* Prypiat River, bank. *Habitat:* water meadow. *Reserve:* NNP Prypiat-Stokhid. *Georegion:* FZM: Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I.  
*Institution Code:* SMNH. *Remarks:* male.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: E2.20.22.01.03/56.R  
Digital record number: SMNH007323  
Data Centre "Biodiversity of Ukraine": ID 56833

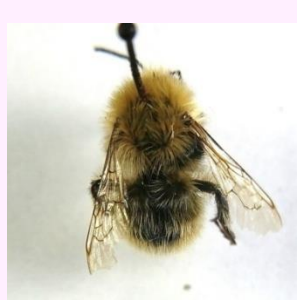


Fig. 57. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-05.  
*Country:* Ukraine. *State Province:* Volynska. *District:* Liubeshivskyi. *Municipality:* Svalovychi. *Locality:* Prypiat River, bank. *Habitat:* water meadow. *Reserve:* NNP Prypiat-Stokhid. *Georegion:* FZM: Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I.  
*Institution Code:* SMNH. *Remarks:* male.

***Bombus muscorum* (Linnaeus, 1758)**

Inventory number: **E2.20.22.01.03/57.R**  
Digital record number: **SMNH007324**  
Data Centre “Biodiversity of Ukraine”: **ID 56834**

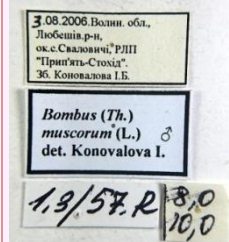


Fig. 58. Specimen of of *Bombus muscorum* (Linnaeus, 1758) in the SMNH collection.

*Collection Type:* Museum Collection / Specimen. *Count:* 1. *Event Date:* 2006-08-05. *Country:* Ukraine. *State Province:* Volynska. *District:* Liubeshivskyi. *Municipality:* Svalovychi. *Locality:* Prypiat River, bank. *Habitat:* water meadow. *Reserve:* NNP Prypiat-Stokhid. *Georegion:* FZM: Volynske Polissia. *Leg:* Konovalova I. *Det:* Konovalova I. *Institution Code:* SMNH. *Remarks:* male.

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Rasmont P., Iserbyt I. Atlas of the European Bees: genus *Bombus*. Atlas Hymenoptera. 2nd Edition STEP Project. Mons, Gembloux: 2010–2012. <http://www.zoologie.umh.ac.be/hymenoptera/page.asp?ID=169>

Rasmont P., Franzén M., Lecocq T., Harpke A., Roberts S.P.M., Biesmeijer J.C., Castro L., Cederberg B., Dvořák L., Fitzpatrick Ú., Gonsérth Y., Haubruge E., Mahe G., Manino A., Michez D., Neumayer J., Ødegaard F., Paukkunen J., Pawlikowski T., Potts S.G., Reemer M., Settele J., Straka J., Schweiger O. Climatic risk and distribution atlas of European bumblebees. *Biorisk* 10. 2015. Special Issue. 246 pp.

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**Національна академія наук України  
Державний природознавчий музей**

Науково-довідкове видання  
(електронне видання)

**КАТАЛОГ ОЦИФРОВАНИХ КОЛЕКЦІЙ ДЕРЖАВНОГО  
ПРИРОДОЗНАВЧОГО МУЗЕЮ, НАЦІОНАЛЬНОЇ АКАДЕМІЇ НАУК  
УКРАЇНИ**

Випуск 1  
ГЕРБАРІЙ, ЕНТОМОЛОГІЧНА ТА МАММОЛОГІЧНА КОЛЕКЦІЇ

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Телефон / факс +38032-235-69-17

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