



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 estreicheri* 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 SCELIPHRON DESTILLATORIUM (ILLIGER, 1807)
(HYMENOPTERA, SPHECIDAE) SPECIMENS DEPOSITED IN THE STATE
MUSEUM OF NATURAL HISTORY NASU, LVIV, UKRAINE**

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Representatives of the genus *Sceliphron* Klug, 1801 are found in almost all biogeographical regions of the world (Yuan, 2022). At present, 35 species of this genus have been known (Pulawski, 2020). Of these, six species have been recorded from the territory of Ukraine as follows: three invasive species: *Sceliphron caementarium* (Drury, 1773); *Sceliphron curvatum* (Smith, 1870) (Питель-Гута, Затушевський, 2023) and *Sceliphron deforme* (F. Smith, 1856) (Klet'onkin, 2023); and three native species: *Sceliphron destillatorium* (Illiger, 1807); *Sceliphron madraspatanum* (Fabricius, 1781) and *Sceliphron spirifex* (Linnaeus, 1758) (Tymkiv et al., 2015). The most common is *Sceliphron destillatorium* (Illiger, 1807), which occurs throughout the territory of Ukraine.

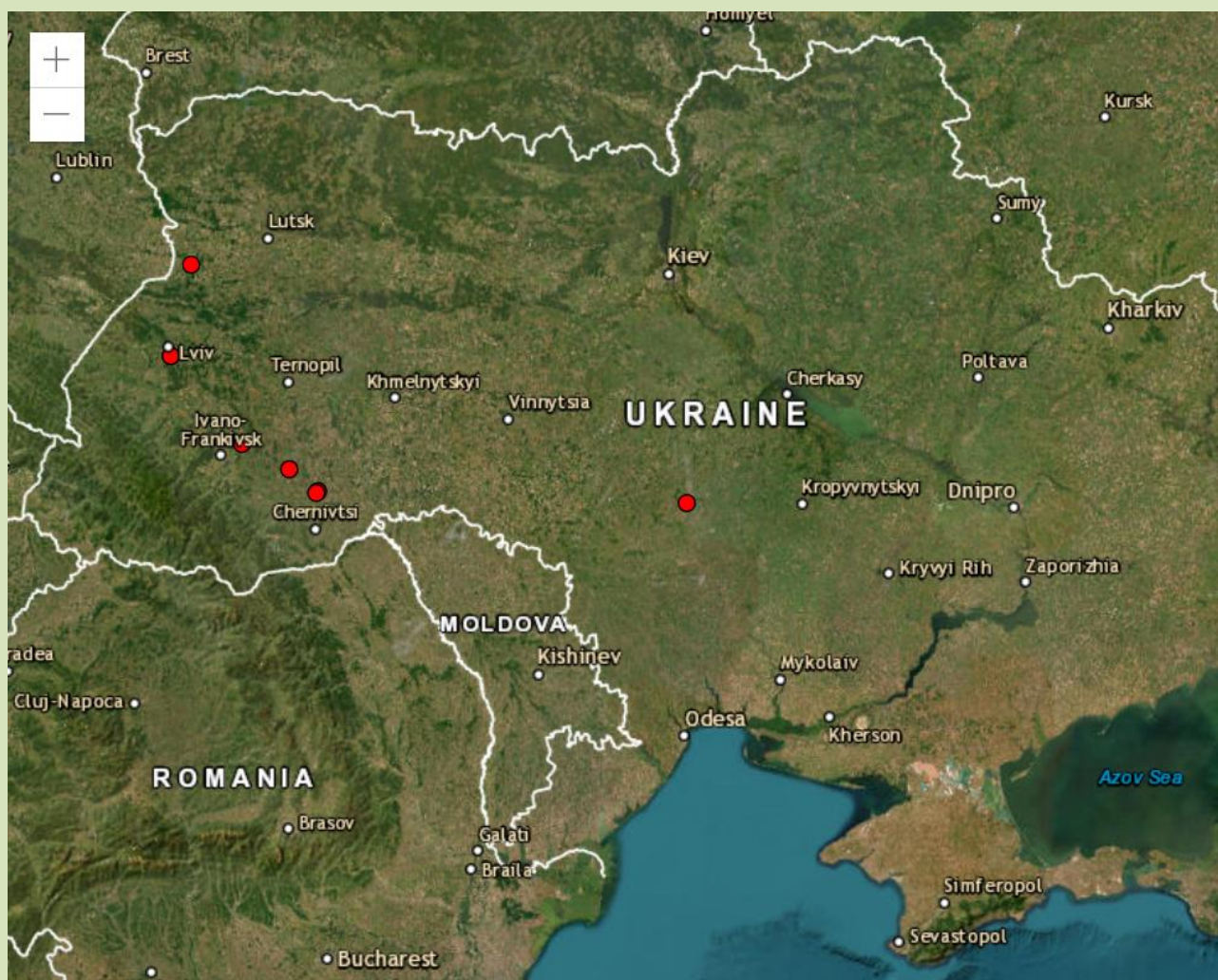


Fig. 1. Findings of *Sceliphron destillatorium* (Illiger, 1807) in the collection of SMNH (according DCBU <<http://dc.smnh.org/>>).

Representatives of the genus *Sceliphron* Klug, 1801 belong to two subgenera: *Sceliphron* and *Hensenia*. Although species of both subgenera take care of their offspring and feed the larvae with spiders, their nests differ in shape and number of mud cells. Wasps of the subgenus *Hensenia* build a certain number of single-celled mud nests in shape of jugs. Instead, wasps of the subgenus *Sceliphron* build cells that joint into large mud nest.

S. destillatorium is the South–Palaeartic species. Its range covers the Mediterranean region (southern and south-eastern Europe, northern Africa and south-western and southern Asia) (Wisniowski et al., 2013). *S. destillatorium* is a solitary wasp. It belongs to the family Sphecidae (Insecta: Hymenoptera) of the subgenus *Sceliphron* (Gülmez1 et al, 2017).

S. destillatorium female builds a nests of the moist soil material, which she collects and transports herself. The nest consists of tubular cells placed side by side, the number of which varies (Chatenoud et al., 2012). After building the first cell, the female hunts spiders to feed her offspring (Pytel-Huta, 2023; Yuan, 2022).

Female *S. destillatorium* brings the paralysed spider into the cell, lays an egg and continues to hunt. Each cell stores a certain number of spiders. The number depends on the size of the victims and the sex of the future generation. Once the cells have been built, the female *S. destillatorium* covers them with an additional layer of soil (Polidori, 2005).

In the wild, females build their nests in shady, sheltered places (rock ledges, empty tree trunks, etc.). However, at present, they are increasingly nesting in people's houses (usually under roofs, attics, etc.) (Yuan, 2022). Adult wasps feed on angiosperm nectar.

The collection of the State Museum of Natural History, National Academy of Sciences in Lviv contains 14 specimens of this species collected in the western part of Ukraine and one specimen collected in the central part. A few samples (4) of this species were collected in 1922, 1923 and 1926 (Figs 1, 2, 6, 14), collector – J. Noskiewicz. The date and place of collection of the remaining specimens are unknown.

All data have been entered into the web resource Data Centre “Biodiversity of Ukraine” <http://dc.smnh.org/>.

Sceliphron destillatorium Illiger, 1807



Inventory number: E2.20.64.20.01/01
Digital record number: SMNH010534
Data Centre "Biodiversity of Ukraine": ID 69806

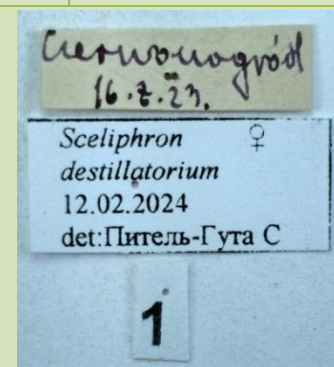


Fig. 1. Specimen of *Sceliphron destillatorium* Illiger, 1807 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1923-07-16; *Country:* Ukraine; *State Province:* Ternopil'ska; *District:* Chortkivskyi; *Municipality:* Nyrkiv (Chervonohorod); *Reserve:* NNP Dnister Canyon; *Georegion:* FZB: West Podillia Upland; *Locality:* - ; *Habitat:* - ; *Leg:* Noskiewicz J.; *Det:* Pytel-Huta S.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* cabinet-942, insect-box-663.

Sceliphron destillatorium Illiger, 1807



Inventory number: E2.20.64.20.01/02
Digital record number: SMNH010535
Data Centre "Biodiversity of Ukraine": ID 69807

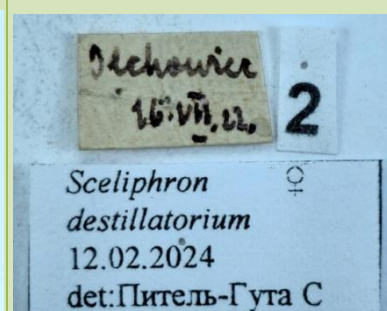
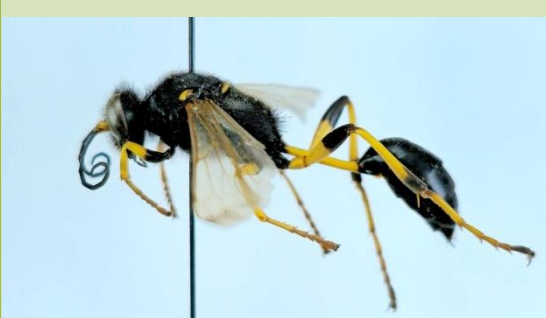


Fig. 2. Specimen of *Sceliphron destillatorium* Illiger, 1807 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1922-07-16; *Country:* Ukraine; *State Province:* Lviv'ska; *District:* Chervonohradskyi; *Municipality:* Ilkoviychi; *Reserve:* - ; *Georegion:* FZB: Volyn'ska Upland; *Locality:* - ; *Habitat:* - ; *Leg:* Noskiewicz J.; *Det:* Pytel-Huta S.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* cabinet-942, insect-box-663.

<i>Sceliphron destillatorium</i> Illiger, 1807		
Inventory number:	E2.20.64.20.01/03	
Digital record number:	SMNH010536	
Data Centre "Biodiversity of Ukraine":	ID 69808	
		
<p>Fig. 3. Specimen of <i>Sceliphron destillatorium</i> Illiger, 1807 in the SMNH collection. <i>Collection Type:</i> MuseumCollection/Specimen; <i>Count:</i> 1; <i>Event Date:</i> 0000-07-12; <i>Country:</i> Ukraine; <i>State Province:</i> Lvivska; <i>District:</i> Lvivskyi; <i>Municipality:</i> Lviv; <i>Reserve:</i> - ; <i>Georegion:</i> FZB: ROp: Opillia; <i>Locality:</i> Zubra; <i>Habitat:</i> - ; <i>Leg:</i> - ; <i>Det:</i> Pytel-Huta S.; <i>Institution Code:</i> SMNH; <i>Citation:</i> - ; <i>Remarks:</i> cabinet-942, insect-box-663.</p>		
<i>Sceliphron destillatorium</i> Illiger, 1807		
Inventory number:	E2.20.64.20.01/04	
Digital record number:	SMNH010537	
Data Centre "Biodiversity of Ukraine":	ID 69809	
		
<p>Fig. 4. Specimen of <i>Sceliphron destillatorium</i> Illiger, 1807 in the SMNH collection. <i>Collection Type:</i> MuseumCollection/Specimen; <i>Count:</i> 1; <i>Event Date:</i> 0000-00-00; <i>Country:</i> Ukraine; <i>State Province:</i> Ternopilska; <i>District:</i> Chortkivskyi; <i>Municipality:</i> Luka; <i>Reserve:</i> NNP Dnister Canyon; <i>Georegion:</i> FZB: ROp: Opillia; <i>Locality:</i> - ; <i>Habitat:</i> - ; <i>Leg:</i> - ; <i>Det:</i> Pytel-Huta S.; <i>Institution Code:</i> SMNH; <i>Citation:</i> - ; <i>Remarks:</i> cabinet-942, insect-box-663.</p>		

Sceliphron destillatorium Illiger, 1807



Inventory number: E2.20.64.20.01/05
Digital record number: SMNH010538
Data Centre "Biodiversity of Ukraine": ID 69810



Fig. 5. Specimen of *Sceliphron destillatorium* Illiger, 1807 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 0000-00-00; *Country:* - ; *State Province:* - ; *District:* - ; *Municipality:* - ; *Reserve:* - ; *Georegion:* - ; *Locality:* - ; *Habitat:* - ; *Leg:* - ; *Det:* Pytel-Huta S.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* cabinet-942, insect-box-663.

Sceliphron destillatorium Illiger, 1807



Inventory number: E2.20.64.20.01/06
Digital record number: SMNH010539
Data Centre "Biodiversity of Ukraine": ID 69811

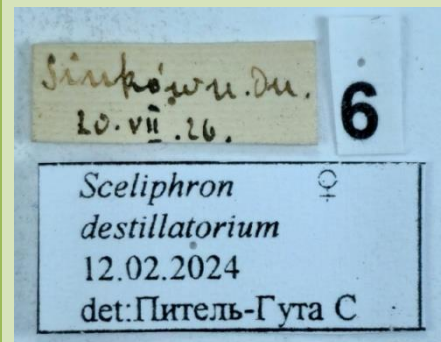


Fig. 6. Specimen of *Sceliphron destillatorium* Illiger, 1807 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1926-07-20; *Country:* Ukraine; *State Province:* Ternopil'ska; *District:* Chortkivskyi; *Municipality:* Synkiv; *Reserve:* NNP Dnister Canyon; *Georegion:* FZB: West Podillia Upland; *Locality:* - ; *Habitat:* - ; *Leg:* Noskiewicz J.; *Det:* Pytel-Huta S.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* cabinet-942, insect-box-663.

Sceliphron destillatorium Illiger, 1807



Inventory number: E2.20.64.20.01/07
Digital record number: SMNH010540
Data Centre "Biodiversity of Ukraine": ID 69812

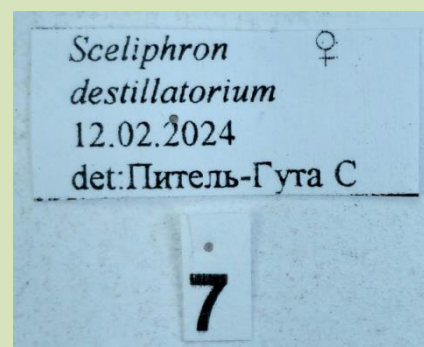


Fig. 7. Specimen of *Sceliphron destillatorium* Illiger, 1807 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; Count: 1; Event Date: 0000-00-00; Country: - ; State Province: - ; District: - ; Municipality: - ; Reserve: - ; Georegion: - ; Locality: - ; Habitat: - ; Leg: - ; Det: Pytel-Huta S.; Institution Code: SMNH; Citation: - ; Remarks: cabinet-942, insect-box-663.

Sceliphron destillatorium Illiger, 1807



Inventory number: E2.20.64.20.01/08
Digital record number: SMNH010541
Data Centre "Biodiversity of Ukraine": ID 69814

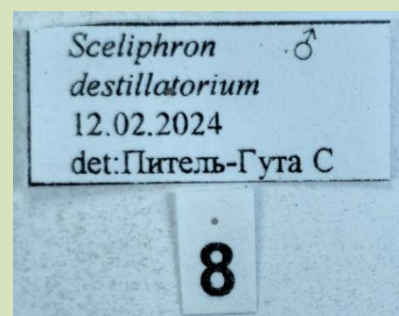


Fig. 8. Specimen of *Sceliphron destillatorium* Illiger, 1807 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; Count: 1; Event Date: 0000-00-00; Country: - ; State Province: - ; District: - ; Municipality: - ; Reserve: - ; Georegion: - ; Locality: - ; Habitat: - ; Leg: - ; Det: Pytel-Huta S.; Institution Code: SMNH; Citation: - ; Remarks: cabinet-942, insect-box-663.

Sceliphron destillatorium Illiger, 1807



Inventory number: E2.20.64.20.01/09
Digital record number: SMNH010542
Data Centre "Biodiversity of Ukraine": ID 69815

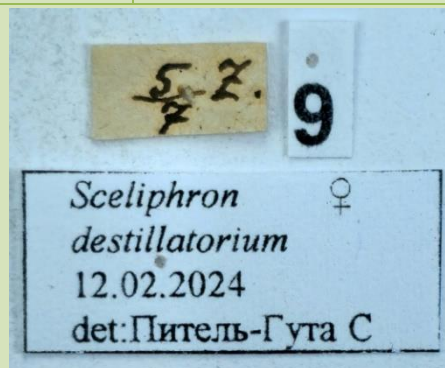


Fig. 9. Specimen of *Sceliphron destillatorium* Illiger, 1807 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 0000-07-05; *Country:* Ukraine; *State Province:* Lvivska; *District:* Lvivskyi; *Municipality:* Lviv; *Reserve:* - ; *Georegion:* FZB: ROp: Opillia; *Locality:* Zubra; *Habitat:* - ; *Leg:* - ; *Det:* Pytel-Huta S.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* cabinet-942, insect-box-663.

Sceliphron destillatorium Illiger, 1807



Inventory number: E2.20.64.20.01/10
Digital record number: SMNH010543
Data Centre "Biodiversity of Ukraine": ID 69816



Fig. 10. Specimen of *Sceliphron destillatorium* Illiger, 1807 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 0000-00-00; *Country:* - ; *State Province:* - ; *District:* - ; *Municipality:* - ; *Reserve:* - ; *Georegion:* - ; *Locality:* - ; *Habitat:* - ; *Leg:* - ; *Det:* Pytel-Huta S.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* cabinet-942, insect-box-663.

Sceliphron destillatorium Illiger, 1807



Inventory number: E2.20.64.20.01/11
Digital record number: SMNH010544
Data Centre "Biodiversity of Ukraine": ID 69818

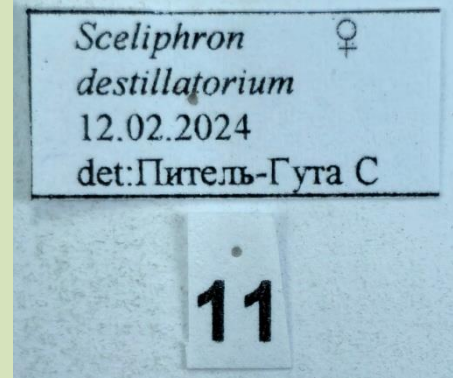


Fig. 11. Specimen of *Sceliphron destillatorium* Illiger, 1807 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 0000-00-00; *Country:* - ; *State Province:* - ; *District:* - ; *Municipality:* - ; *Reserve:* - ; *Georegion:* - ; *Locality:* - ; *Habitat:* - ; *Leg:* - ; *Det:* Pytel-Huta S.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* cabinet-942, insect-box-663.

Sceliphron destillatorium Illiger, 1807



Inventory number: E2.20.64.20.01/12
Digital record number: SMNH010545
Data Centre "Biodiversity of Ukraine": ID 69820



Fig. 12. Specimen of *Sceliphron destillatorium* Illiger, 1807 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 0000-00-00; *Country:* - ; *State Province:* - ; *District:* - ; *Municipality:* - ; *Reserve:* - ; *Georegion:* - ; *Locality:* - ; *Habitat:* - ; *Leg:* - ; *Det:* Pytel-Huta S.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* cabinet-942, insect-box-663.

Sceliphron destillatorium Illiger, 1807



Inventory number: E2.20.64.20.01/13
Digital record number: SMNH010546
Data Centre "Biodiversity of Ukraine": ID 69821



Fig. 13. Specimen of *Sceliphron destillatorium* Illiger, 1807 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 0000-00-00; *Country:* Bosnia and Herzegovina; *State Province:* - ; *District:* - ; *Municipality:* - ; *Reserve:* - ; *Georegion:* - ; *Locality:* - ; *Habitat:* - ; *Leg:* - ; *Det:* Pytel-Huta S.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* cabinet-942, insect-box-663.

Sceliphron destillatorium Illiger, 1807



Inventory number: E2.20.64.20.01/14
Digital record number: SMNH010547
Data Centre "Biodiversity of Ukraine": ID 69822

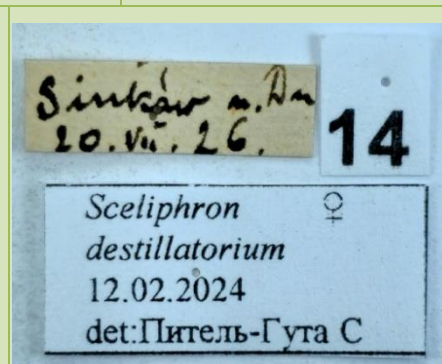


Fig. 14. Specimen of *Sceliphron destillatorium* Illiger, 1807 in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1926-07-20; *Country:* Ukraine; *State Province:* Ternopil'ska; *District:* Chortkivskyi; *Municipality:* Synkiv; *Reserve:* NNP Dnister Canyon; *Georegion:* FZB: West Podillia Upland; *Locality:* - ; *Habitat:* - ; *Leg:* Noskiewicz J.; *Det:* Pytel-Huta S.; *Institution Code:* SMNH; *Citation:* - ; *Remarks:* cabinet-942, insect-box-663.

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**Національна академія наук України
Державний природознавчий музей**

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ПРИРОДОЗНАВЧОГО МУЗЕЮ, НАЦІОНАЛЬНОЇ АКАДЕМІЇ НАУК
УКРАЇНИ**

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ГЕРБАРІЙ, АКАРОЛОГІЧНА ТА ЕНТОМОЛОГІЧНА КОЛЕКЦІЇ

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