



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 PALAMOCLADIUM EUCHLORON (MÜLL. HAL.) WIJK ET MARGAD. (HYPNALES, BRACHYTHECIAEAE) SPECIMENS DEPOSITED IN THE STATE MUSEUM OF NATURAL HISTORY NASU, LVIV, UKRAINE

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The species *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. is distributed in Southern Europe (Greece), in the Caucasus, in Asia (Turkey, Iran, Turkmenistan, Pakistan, China). Findings in the Mountainous Crimea: Kirovskiy district, Agarmysh Mt. in the vicinity of the Old Crimea town, Old Crimea; Khapkhal Gorge near the Dzhur-Dzhur waterfall on the East Ulu-Uzen River, Crimean Nature Reserve, upper reaches of the Alma River; Bakhchysaraiskiy district, near the Bakhchysarai town, Sokolyne and Mashyne villages, Chufut-Kale rock (Червона..., 2009; Перелік..., 2021a, б). The species is scientifically significant as a relict (tertiary) one.

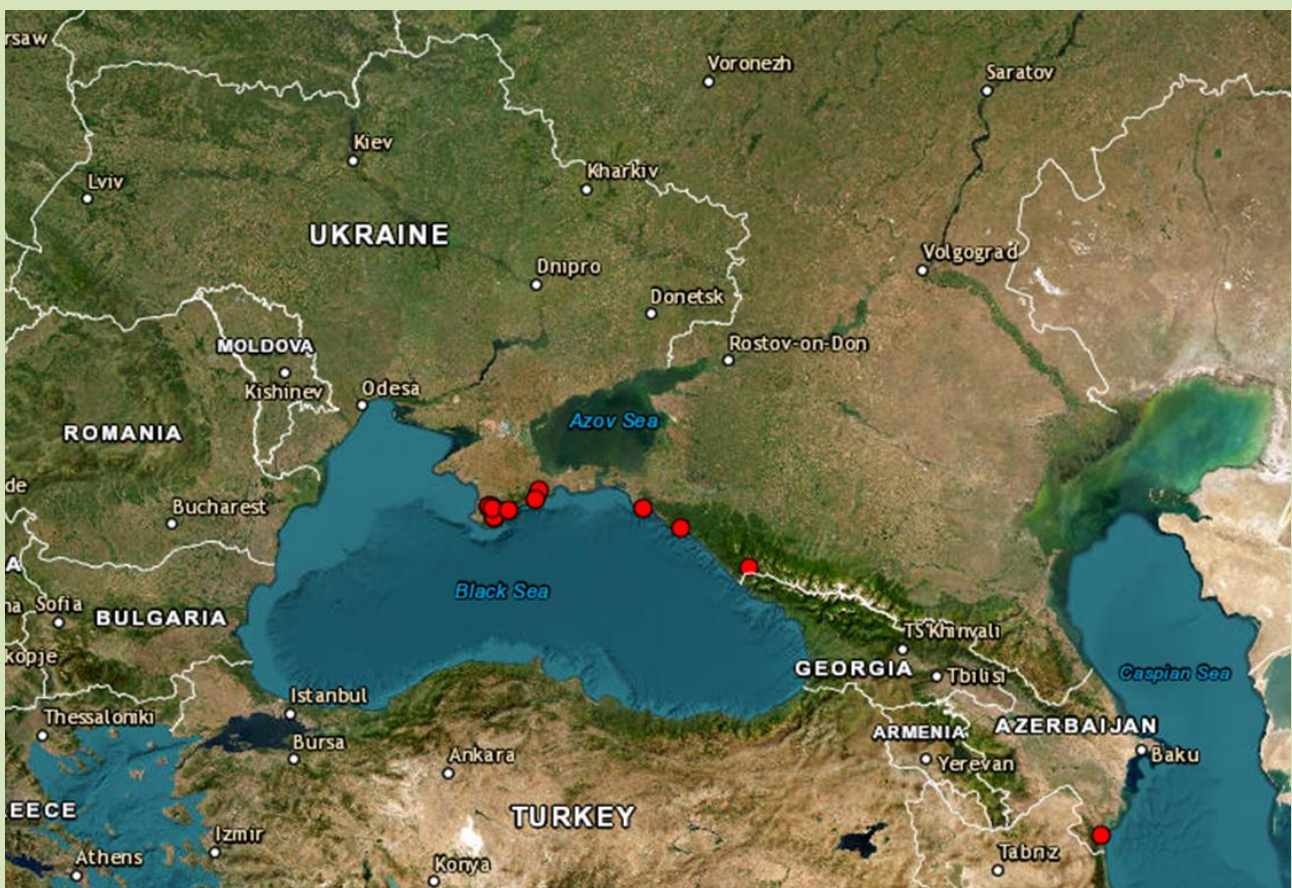


Fig. 1. Findings of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the collection of SMNH (according DCBU <<http://dc.smnh.org/>>).

This moss grows on the soil, on shaded limestone rocks and stones in oak and beech forests. The plant is dioecious. In the Crimea it does not form sporogonies and reproduces vegetatively. *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. is protected in the

Crimean Nature Reserve, Khapkhalskyi hydrological reserve and the Agarmyskyi Forest landmark of nature (Червона..., 2009).

The species is recorded for the Staryi Krym vicinity in the work of M.P. Slobodian (Слободян, 1969). The species is given in the study of fossil Pliocene bryoflora for the territory of Poland (Szafran, 1948; Зеров, 1975).

Specimens of the *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad., represented in the SMNH collection, were collected from the territory of the Crimean Peninsular (Bakhchysarai (Slobodian, 1969), Kirovsky district (Slobodian, 1966), Sudak town (Slobodian, 1968), Sokolyne village (Slobodian, 1969), Mashyne village (Slobodian, 1969), Golovkinskyi waterfall (Melnychuk, 1954); from the territory of Krasnodar Krai (Russia) territory were collected in Krasnaia Poliana (Lazarenko, 1937), from the territory of Azerbaijan near Novo-Alekseevka village (Окснер, 1936).

The museum collection contains 14 specimens of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. Two specimens are exsiccates (Institutum Botanicum nomine V.L. Komarivii Academiae Scientiarum URSS, 1961).

Samples were collected by M.P. Slobodian, V.M. Melnychuk, A.S. Lazarenko, A.M. Oksner. Exsiccates were collected by I.I. Abramov and A.L. Abramova.

Most specimens were collected in the second half of the 20th century. The specimens of A.S. Lazarenko and A.M. Oksner belong to the first half of the 20th century.

The species has been included into the Red Data Book of Ukraine with conservation status: Rare.

The 2023 issue of the catalogue of the digitized collections, deposited in the State Museum of Natural History, National Academy of Sciences of Ukraine contains an article about the genus *Bazzania* Gray (Lepidoziaceae, Jungermanniales) (Savytska, 2023).

This article was written with the support of the National Research Foundation of Ukraine, call 2022.01 «Science for the Recovery of Ukraine in the War and Post-War Periods» the project 2022.01/0013 «Digitization of natural history collections damaged as a result of hostilities and related factors: development of protocols and implementation on the basis of the State Museum of Natural History of the National Academy of Sciences of Ukraine». The contents of this article do not necessarily reflect the views of the National Research Foundation of Ukraine and are the sole responsibility of the State Museum of Natural History, NAS of Ukraine.

***Palamocladium euchloron* (Müll. Hal.) Wijk et Margad.**



Inventory number: **BM-M 15675**
Digital record number: **SMNH010719**
Data Centre "Biodiversity of Ukraine": **ID 71280**

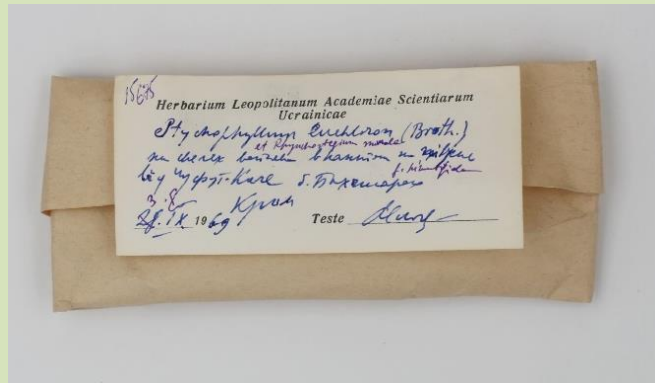


Fig. 2. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1969-10-03; *Country:* Ukraine; *State Province:* Crimea AR; *District:* Bakhchysaraiskyi; *Municipality:* Bakhchysarai; *Reserve:* - ; *Georegion:* CrMts: Crimean Forest-Steppe Upland; *Locality:* Chufut-Kale tract; *Habitat:* Chufut-Kale tract; *Leg:* Slobodian M.P.; *Det:* Slobodian M.P.; *Institution Code:* SMNH LWS; *Citation:* - ; *Remarks:* - .

***Palamocladium euchloron* (Müll. Hal.) Wijk et Margad.**



Inventory number: **BM-M 15676**
Digital record number: **SMNH010720**
Data Centre "Biodiversity of Ukraine": **ID 71281**

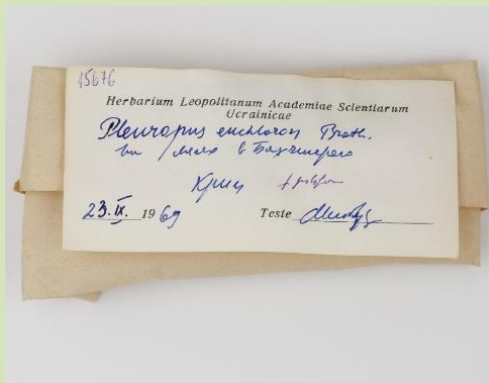


Fig. 3. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1969-09-23; *Country:* Ukraine; *State Province:* Crimea AR; *District:* Bakhchysaraiskyi; *Municipality:* Bakhchysarai; *Reserve:* - ; *Georegion:* CrMts: Crimean Forest-Steppe Upland; *Locality:* -; *Habitat:* on the rocks; *Leg:* Slobodian M.P.; *Det:* Slobodian M.P.; *Institution Code:* SMNH LWS; *Citation:* - ; *Remarks:* - .

***Palamocladium euchloron* (Müll. Hal.) Wijk et Margad.**



Inventory number: **BM-M 15677**
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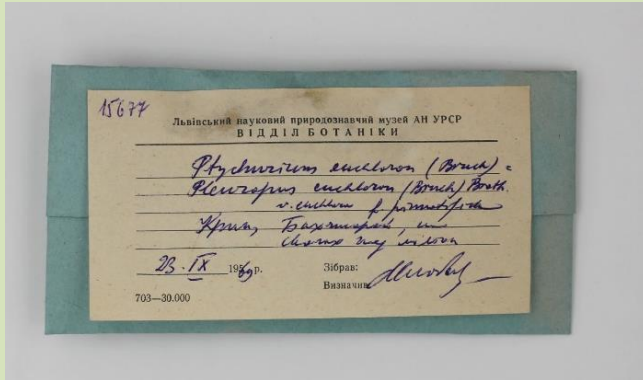


Fig. 4. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1969-09-23; *Country:* Ukraine; *State Province:* Crimea AR; *District:* Bakhchysaraiskyi; *Municipality:* Bakhchysarai; *Reserve:* - ; *Georegion:* CrMts: Crimean Forest-Steppe Upland; *Locality:* - ; *Habitat:* on the rocks; *Leg:* Slobodian M.P.; *Det:* Slobodian M.P.; *Institution Code:* SMNH LWS; *Citation:* - ; *Remarks:* - .

***Palamocladium euchloron* (Müll. Hal.) Wijk et Margad.**



Inventory number: **BM-M 15678**
Digital record number: **SMNH010722**
Data Centre “Biodiversity of Ukraine”: **ID 71295**

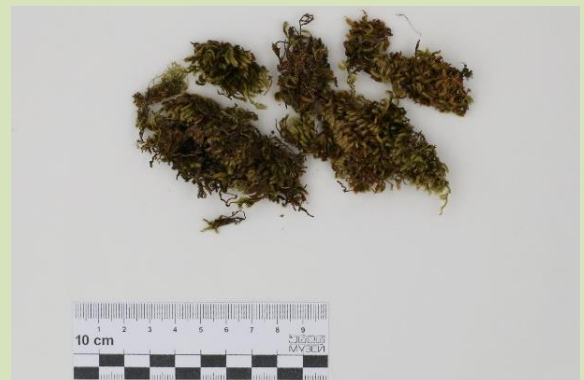
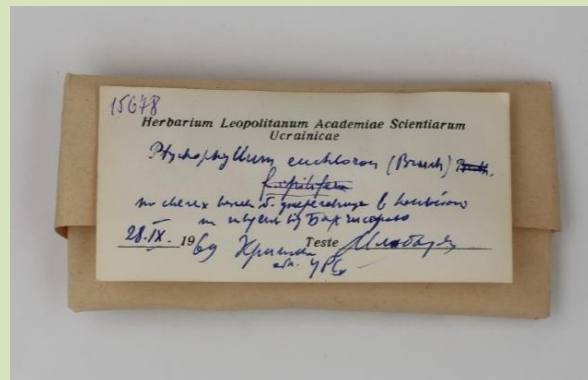


Fig. 5. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1969-09-28; *Country:* Ukraine; *State Province:* Crimea AR; *District:* Bakhchysaraiskyi; *Municipality:* Bakhchysarai; *Reserve:* - ; *Georegion:* CrMts: Crimean Forest-Steppe Upland; *Locality:* - ; *Habitat:* on the rocks near the spring; *Leg:* Slobodian M.P.; *Det:* Slobodian M.P.; *Institution Code:* SMNH LWS; *Citation:* - ; *Remarks:* - .

***Palamocladium euchloron* (Müll. Hal.) Wijk et Margad.**



Inventory number: **BM-M 15679**
Digital record number: **SMNH010723**
Data Centre “Biodiversity of Ukraine”:
ID 71296

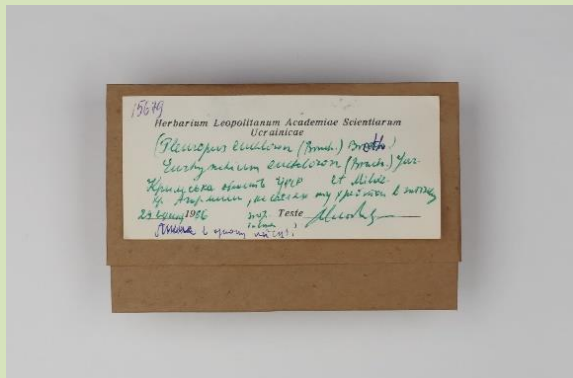


Fig. 6. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1966-09-29; *Country:* Ukraine; *State Province:* Crimea AR; *District:* Kirovskiy; *Municipality:* -; *Reserve:* -; *Georegion:* CrMts: Crimean Forest-Steppe Upland; *Locality:* -; *Habitat:* on the rocks of the ridge in the shade; *Leg:* Slobodian M.P.; *Det:* Slobodian M.P.; *Institution Code:* SMNH LWS; *Citation:* -; *Remarks:* - .

***Palamocladium euchloron* (Müll. Hal.) Wijk et Margad.**



Inventory number: **BM-M 15680**
Digital record number: **SMNH010724**
Data Centre “Biodiversity of Ukraine”:
ID 71299



Fig. 7. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1968-10-13; *Country:* Ukraine; *State Province:* Crimea AR; *District:* Feodosiiskiy; *Municipality:* Sudak; *Reserve:* -; *Georegion:* CrMts: Crimean South Coast Submediterranean region; *Locality:* deciduous forest; *Habitat:* rocks in the shade; *Leg:* Slobodian M.P.; *Det:* Slobodian M.P.; *Institution Code:* SMNH LWS; *Citation:* -; *Remarks:* - .

***Palamocladium euchloron* (Müll. Hal.) Wijk et Margad.**



Inventory number: **BM-M 15681**
Digital record number: **SMNH010725**
Data Centre "Biodiversity of Ukraine": **ID 71301**

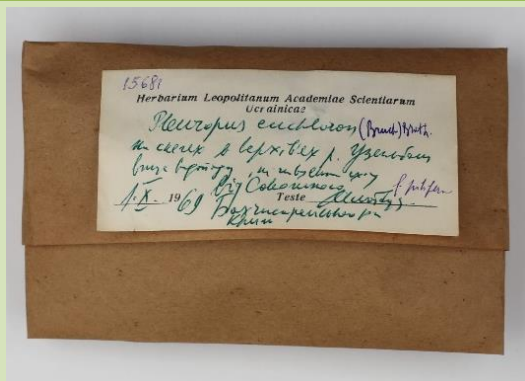


Fig. 8. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1969-10-01; *Country:* Ukraine; *State Province:* Crimea AR; *District:* Bakhchysaraiskyi; *Municipality:* Sokolyne; *Reserve:* - ; *Georegion:* CrMts: Crimean Mts; *Locality:* - ; *Habitat:* on the rocks; *Leg:* Slobodian M.P.; *Det:* Slobodian M.P.; *Institution Code:* SMNH LWS; *Citation:* - ; *Remarks:* - .

***Palamocladium euchloron* (Müll. Hal.) Wijk et Margad.**



Inventory number: **BM-M 15682**
Digital record number: **SMNH010726**
Data Centre "Biodiversity of Ukraine": **ID 71302**

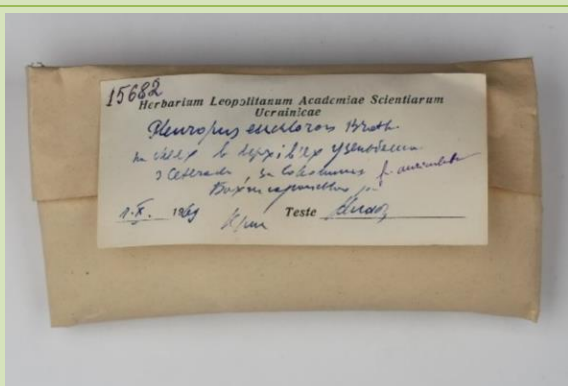


Fig. 9. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1969-10-01; *Country:* Ukraine; *State Province:* Crimea AR; *District:* Bakhchysaraiskyi; *Municipality:* Sokolyne; *Reserve:* - ; *Georegion:* CrMts: Crimean Mts; *Locality:* - ; *Habitat:* on the rocks; *Leg:* Slobodian M.P.; *Det:* Slobodian M.P.; *Institution Code:* SMNH LWS; *Citation:* - ; *Remarks:* - .

Palamocladium euchloron (Müll. Hal.) Wijk et Margad.



Inventory number: **BM-M 15683**
Digital record number: **SMNH010727**
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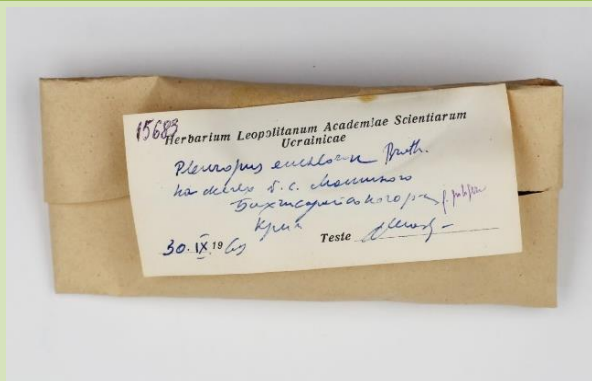


Fig. 10. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1969-09-30; *Country:* Ukraine; *State Province:* Crimea AR; *District:* Bakhchysaraiskyi; *Municipality:* Mashyne; *Reserve:* - ; *Georegion:* SZ; *SZS:* CrSL: Central Crimean Upland; *Locality:* - ; *Habitat:* - ; *Leg:* Slobodian M.P.; *Det:* Slobodian M.P.; *Institution Code:* SMNH LWS; *Citation:* - ; *Remarks:* - .

Palamocladium euchloron (Müll. Hal.) Wijk et Margad.



Inventory number: **BM-M 15684**
Digital record number: **SMNH010728**
Data Centre "Biodiversity of Ukraine": **ID 71304**

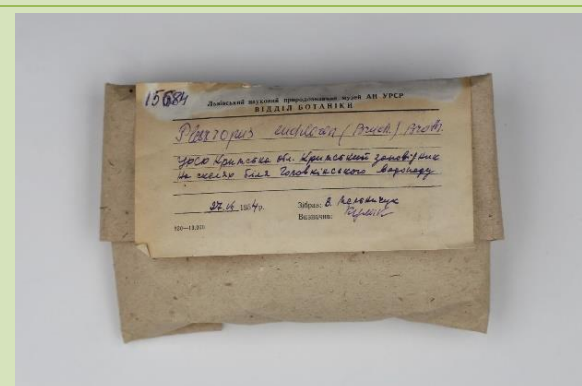


Fig. 11. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1954-07-27; *Country:* Ukraine; *State Province:* Crimea AR; *District:* - ; *Municipality:* - ; *Reserve:* NR Krymskyi; *Georegion:* CrMts: Crimean South Coast Submediterranean region; *Locality:* waterfall Holovkinskoho; *Habitat:* on the rocks; *Leg:* Melnychuk V.M.; *Det:* Kulyk T.H.; *Institution Code:* SMNH LWS; *Citation:* - ; *Remarks:* - .

***Palamocladium euchloron* (Müll. Hal.) Wijk et Margad.**



Inventory number: **BM-M 15685**
Digital record number: **SMNH010729**
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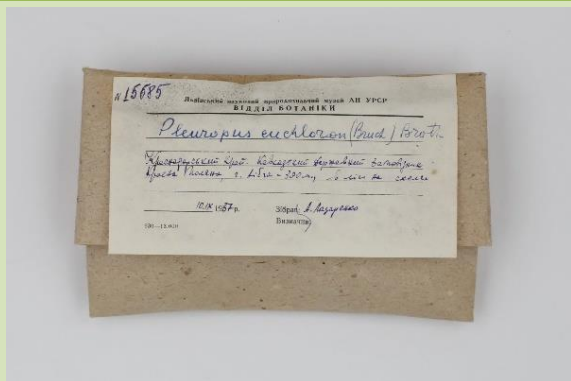


Fig. 12. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1937-09-10; *Country:* Russia; *State Province:* Krasnodarskiy Krai; *District:* - ; *Municipality:* Krasna Poliana; *Reserve:* - ; *Georegion:* - ; *Locality:* Aibha mountain, in the forest; *Habitat:* on the rocks; *Leg:* Lazarenko A.; *Det:* Lazarenko A.; *Institution Code:* SMNH LWS; *Citation:* - ; *Remarks:* - .

***Palamocladium euchloron* (Müll. Hal.) Wijk et Margad.**



Inventory number: **BM-M 15686**
Digital record number: **SMNH010730**
Data Centre "Biodiversity of Ukraine": **ID 71310**

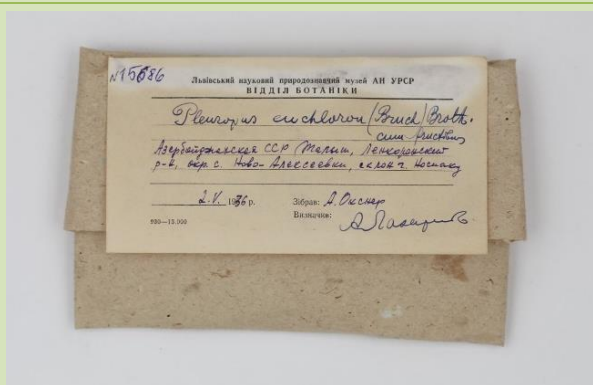


Fig. 13. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; *Count:* 1; *Event Date:* 1936-05-02; *Country:* Azerbaijan; *State Province:* - ; *District:* - ; *Municipality:* Novo-Alieksieievka; *Reserve:* - ; *Georegion:* - ; *Locality:* mountain slope; *Habitat:* - ; *Leg:* Oksner A.; *Det:* - ; *Institution Code:* SMNH LWS; *Citation:* - ; *Remarks:* - .

***Palamocladium euchloron* (Müll. Hal.) Wijk et Margad.**



Inventory number: **BM-M 15687**
Digital record number: **SMNH010731**
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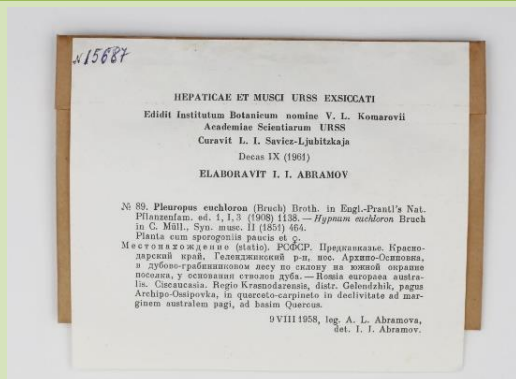


Fig. 14. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; **Count:** 1; **Event Date:** 1958-08-09; **Country:** Russia; **State Province:** Krasnodarskyi Krai; **District:** - ; **Municipality:** Arkhipo-Osypovka; **Reserve:** - ; **Georegion:** - ; **Locality:** in an oak-hornbeam forest on a slope on the southern edge of the village; **Habitat:** base of the oak trunk; **Leg:** Abramova A.L.; **Det:** Abramov I.I.; **Institution Code:** SMNH LWS; **Citation:** - ; **Remarks:** Exsiccati (1961).

***Palamocladium euchloron* (Müll. Hal.) Wijk et Margad.**



Inventory number: **BM-M 15688**
Digital record number: **SMNH010732**
Data Centre "Biodiversity of Ukraine": **ID 71316**

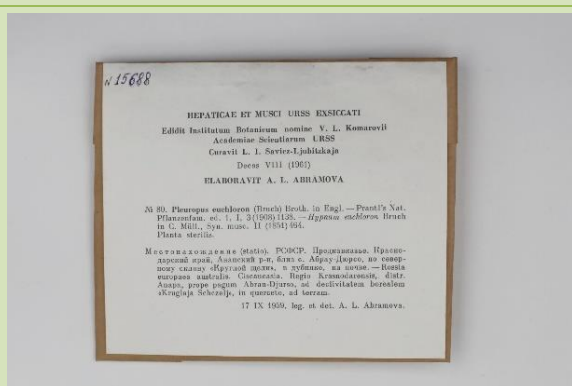


Fig. 15. Specimen of *Palamocladium euchloron* (Müll. Hal.) Wijk et Margad. in the SMNH collection.

Collection Type: MuseumCollection/Specimen; **Count:** 1; **Event Date:** 1959-09-17; **Country:** Russia; **State Province:** Krasnodarskyi Krai; **District:** - ; **Municipality:** Abrau-Diurso; **Reserve:** - ; **Georegion:** - ; **Locality:** in an oak forest; **Habitat:** on the soil; **Leg:** Abramova A.L.; **Det:** Abramova A.L.; **Institution Code:** SMNH LWS; **Citation:** - ; **Remarks:** Exsiccati (1961).

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Перелік видів рослин та грибів, що заносяться до Червоної книги України (рослинний світ). Наказ Міністерства захисту довкілля та природних ресурсів України 15 лютого 2021а року №111. URL: <http://surl.li/slvtsy>

Перелік видів рослин та грибів, що виключені з Червоної книги України (рослинний світ). Наказ Міністерства захисту довкілля та природних ресурсів України 15 лютого 2021б року №111. URL: <http://surl.li/slvto>

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**Національна академія наук України
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(електронне видання)

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ГЕРБАРІЙ, АКАРОЛОГІЧНА ТА ЕНТОМОЛОГІЧНА КОЛЕКЦІЇ

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