



# CYPERACEAE

*Global Cyperaceae Database*

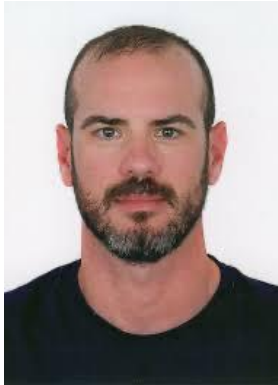


Tackling the taxonomic impediment in sedges:  
opportunities and challenges building a taxonomic aggregator

**Pedro Jiménez-Mejías**



María Sanz Arnal



Santiago Martín  
Bravo



Mónica Míguez



Raúl Lois



José Ignacio  
Márquez Corro



Nuria Marco



Stefanie Dekeyzer



Mona Goharimanesh



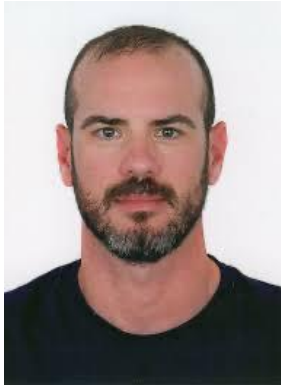
Leen Vandepitte



Isabel Larridon



María Sanz Arnal



Santiago Martín  
Bravo



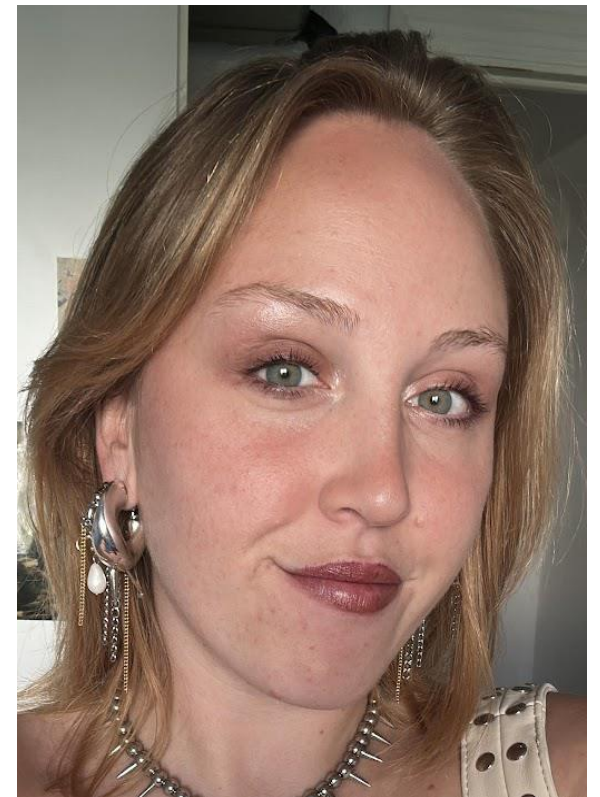
Mónica Míguez



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Nuria Marco



Stefanie Dekeyzer



Mona Goharimanesh



Leen Vandepitte



Isabel Larridon

## WHY SEDGES?

Sedges are a hyperdiverse family

Cyperaceae ranks among the 10 largest plant families (>5700 spp)



*Carex guaguarum*  
Jim.Mejías & Muñoz-Schüler

## WHY SEDGES?

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Cyperaceae ranks among the 10 largest plant families (>5700 spp)

*Carex* ranks as one of the 5 largest plant genera (>2100 spp)



*Carex guaguarum*  
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## WHY SEDGES?

Sedges are a hyperdiverse family

Cyperaceae ranks among the 10 largest plant families (>5700 spp)

*Carex* ranks as one of the 5 largest plant genera (>2100 spp)

Both, Cyperaceae and *Carex*, display Cosmopolitan distributions



High-altitude bofedal dominated by sedges and rushes. Cusco, Peru



*Carex guaguarum*  
Jim.Mejías & Muñoz-Schüler

Sedges are ecologically important in wetlands and in high altitude and high latitude environments (*Carex*)



# The idea

# The TAXONOMIC IMPEDIMENT

Taxonomic data are sparse and difficult to access for most potential users

Images



Sequence data

- ☐ [Carex blakei voucher CAN-582952 mature K \(mtf\) gene, partial cds, plastid](#)  
1. 705 bp linear DNA  
Accession: FJ48076.1 | GI: 254739171  
Format: Published | Taxonomy  
GenBank | FASTA | GenBank | PDB
- ☐ [Carex blakei internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence](#)  
2. 619 bp linear DNA  
Accession: AF276283.1 | GI: 33440196  
Taxonomy  
GenBank | FASTA | GenBank | PDB

Distribution



Specimens



Where is the data I need?

Descriptions

Densely caespitose. **Stems** (20)25-60(80) cm. **Leaves** (2.5)4-10(12) mm wide, flat or plicate, shorter or longer than stems, green, basal sheaths squamiform, reddish or purple. **Lowest bract** leaf-like, shorter or somewhat longer than inflorescence, sheathing. **Inflorescence** consisting of a spike or raceme of spikes different in appearance, the upper one male, linear or narrowly fusiform; the (1)2-3(4) lower ones female, oblong, lax, ± distant or the two upper ones approximate above, with peduncles the longer the lower, erect, more rarely sloping. **Female glumes** ovate, long aristate, hyaline. **Utricles** (4)5-6(6.3) mm long, erect to suberect, ± ellipsoid, green or slightly brownish at maturity, dull, smooth, glabrous, with several prominent veins, gradually narrowed or ± abruptly contracted into a smooth or scabrid, truncate, frequently curved beak (0.2)0.3-0.6(0.8) mm. **Stigmas** 3.  $2n=44, 46$ . *Undergrowth of holm oak, cork oak and Pyrenean oak forests.*

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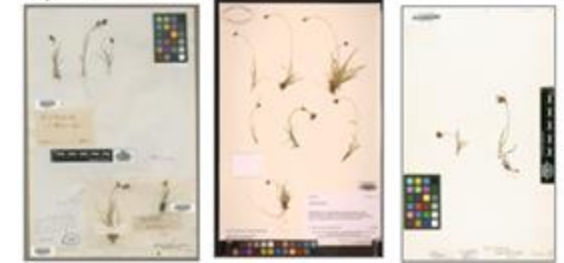
## Sequence data

- ☐ [Carex bicolor voucher CAN-582952 mature K. \(mtf\) gene, partial cds, cloned](#)  
705 bp linear DNA  
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Format: Published Taxonomy  
GenBank FASTA GenBank Protein
- ☐ [Carex bicolor internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence](#)  
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Accession: AF276283.1 GI: 33440198  
Taxonomy  
GenBank FASTA GenBank Protein



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## Distribution



# The TAXONOMIC IMPEDIMENT

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## Sequence data

- ☐ [Carex blakei voucher CAN-582952 matured K. \(malt\) gene, partial cds, aligned](#)  
705 bp linear DNA  
Accession: FJ480276.1 GI: 254739171  
Format: Published Sequence  
GenBank FASTA GenBank Protein
- ☐ [Carex blakei internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence](#)  
619 bp linear DNA  
Accession: AF276283.1 GI: 33440198  
Format: Published Sequence  
GenBank FASTA GenBank Protein

## Distribution

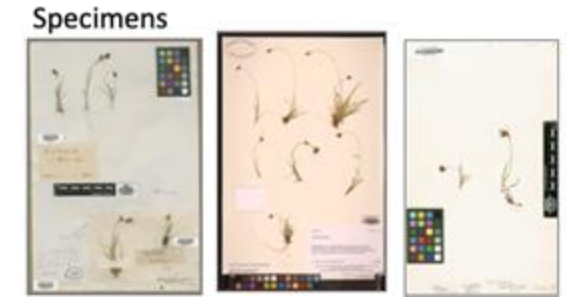
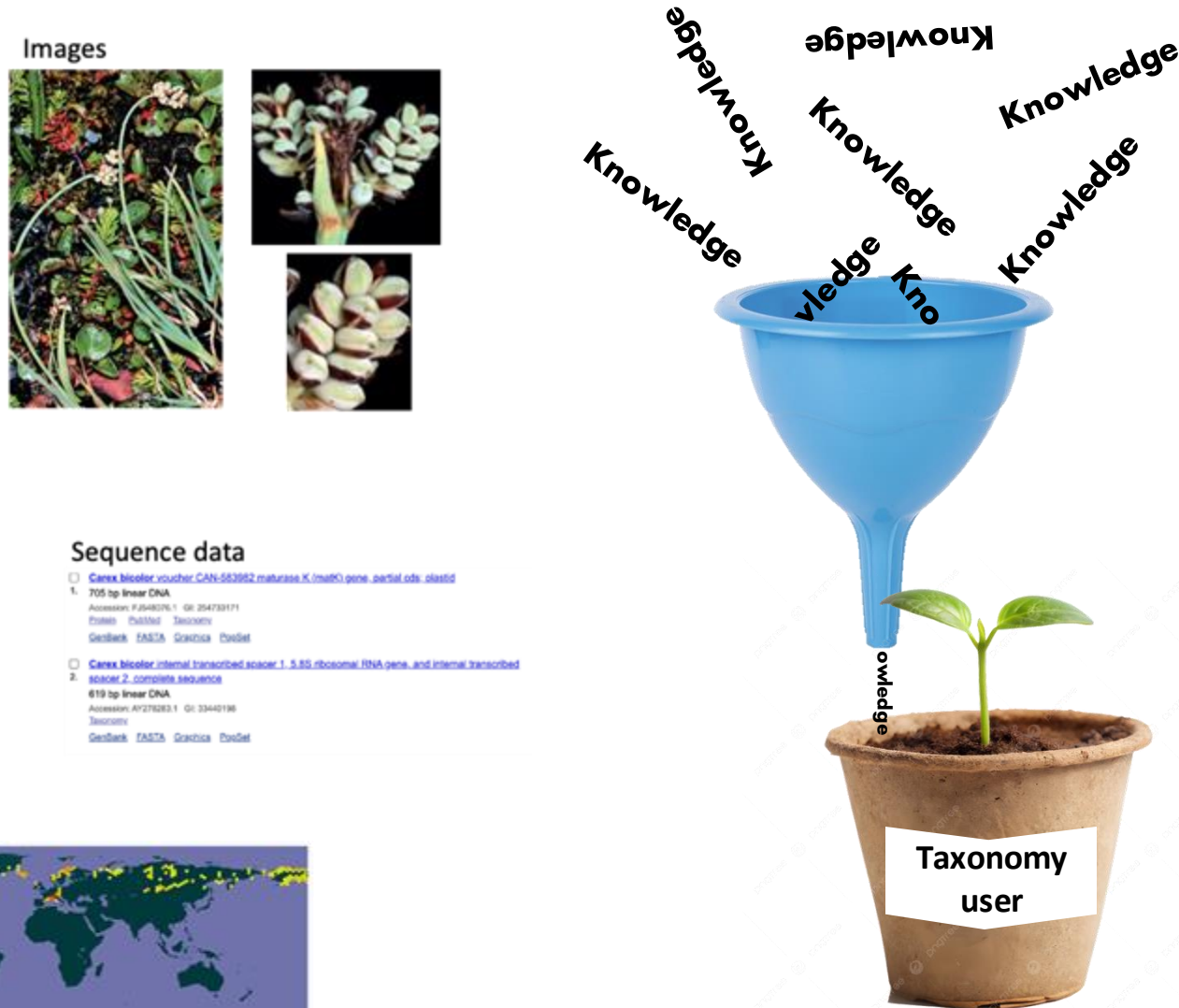


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Densely caespitose. **Stems** (20)25–60(80) cm. **Leaves** (2.5)4–10(12) mm wide, flat or plicate, shorter or longer than stems, green, basal sheaths squamiform, reddish or purple. **Lowest bract** leaf-like, shorter or somewhat longer than inflorescence, sheathing. **Inflorescence** consisting of a spike or raceme of spikes different in appearance, the upper one male, linear or narrowly fusiform; the (1)2–3(4) lower ones female, oblong, lax, ± distant or the two upper ones approximate above, with peduncles the longer the lower, erect, more rarely sloping. **Female glumes** ovate, long aristate, hyaline. **Utricles** (4)5–6(6.3) mm long, erect to suberect, ± ellipsoid, green or slightly brownish at maturity, dull, smooth, glabrous, with several prominent veins, gradually narrowed or ± abruptly contracted into a smooth or scabrid, truncate, frequently curved beak (0.2)0.3–0.6(0.8) mm. **Stigmas** 3. **2n=44, 46**. *Undergrowth of holm oak, cork oak and Pyrenean oak forests.*

### Distribution



# The TAXONOMIC IMPEDIMENT

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**www.cyperaceae.org** aims to compile taxonomic data in an online portal as a new worldwide taxonomic tool (“**treatment**”) for the Cyperaceae family, but in an **updatable and interactive** way.

New tab x +

cyperaceae.org

## *Carex bicolor* All.

### Description

Densely caespitose. Stems (20)25-60(80) cm. Leaves (2.5)4-10(12) mm wide, flat or plicate, shorter or longer than stems, green, basal sheaths squamiform, reddish or purple. Lowest bract leaf-like, shorter or somewhat longer than inflorescence, sheathing. Inflorescence consisting of a spike or raceme of spikes different in appearance, the upper one male, linear or narrowly fusiform; the (1)2-3(4) lower ones female, oblong, lax, ± distant or the two upper ones approximate above, with peduncles the longer the lower, erect, more rarely sloping. Female glumes ovate, long aristate, hyaline. Utricles (4)5-6(6.3) mm long, erect to suberect, ± ellipsoid, green or slightly brownish at maturity, dull, smooth, glabrous, with several prominent veins, gradually narrowed or ± abruptly contracted into a smooth or scabrid, truncate, frequently curved beak (0.2)0.3-0.6(0.8) mm. Stigmas 3. 2n=44, 46. Undergrowth of holm oak, cork oak and Pyrenean oak forests.

### Specimens



### Images



### Distribution



### Sequence data

**1. *Carex bicolor* voucher CAN-583952 mature K (matK) gene, partial cds, plastid**  
705 bp linear DNA  
Accession: FJ448396.1 | GI: 254732171  
Tree: | PubMed | Taxonomy  
GenBank | EMBL | GenBank | PDB

**2. *Carex bicolor* internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence**  
619 bp linear DNA  
Accession: AF278083.1 | GI: 33440196  
Tree: | PubMed | Taxonomy  
GenBank | EMBL | GenBank | PDB

### Bibliography

A. Martín-Bravo S., Jiménez-Mejías P. & Fernández-Mazuecos M. 2016: *Avellara fistulosa*, e.T95314941A95314945. – In: The IUCN Red List of Threatened Species

B. Tutin T. G., Heywood V. H., Burges N. A. & al. 1976: *Flora europaea* 4. – Cambridge: Cambridge University Press



Universidad Pablo de Olavide  
Sevilla - Spain



Vlaams Instituut voor de Zee  
Marine Institute of Flanders  
Ostend - Belgium





# TETTRIS



Co-funded by  
the European Union



Universidad Pablo de Olavide  
Sevilla - Spain



Vlaams Instituut voor de Zee  
Marine Institute of Flanders  
Ostend - Belgium



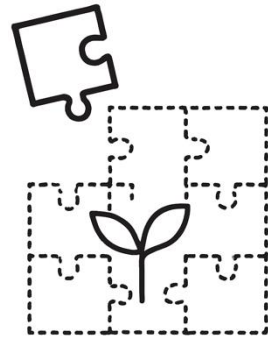
## CYPERACEAE

*Global Cyperaceae Database*



Funding for  
taxonomy is  
possible!

Royal Botanic Gardens  
**Kew**



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## Distribution



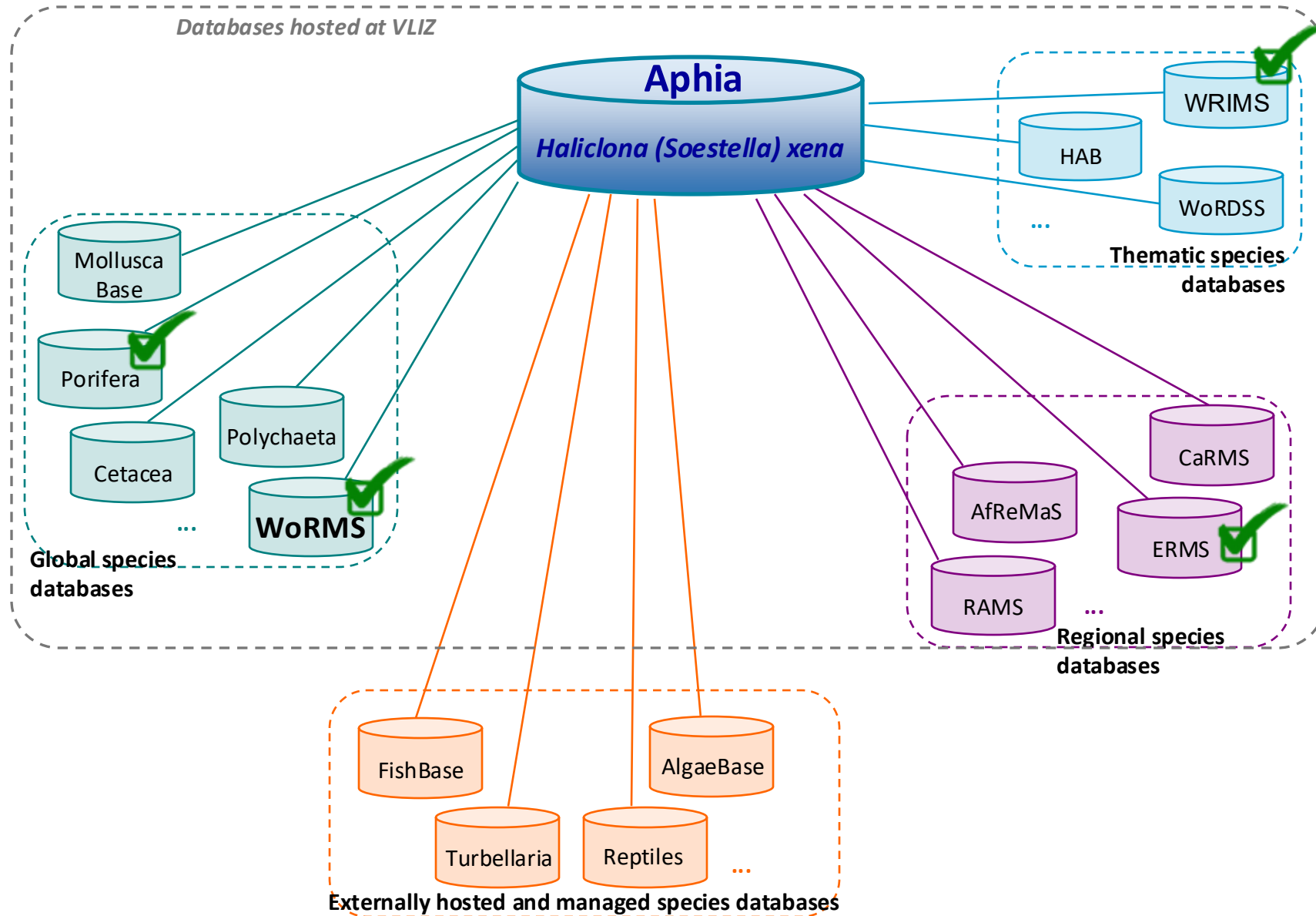
sequence data

[Alex Blesker vouter CAN-58392 maturea X \(meth\) gene, partial cds, plastid](#)  
[100% linear DNA](#)  
[Gen: J060801.1 - GI: 20473371](#)  
[100% fullseq taxonomy](#)  
[100% 555A Scarcia Cordel](#)  
[100% internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2](#)  
[100% 0009](#)  
[100% 00198](#)

A. Martín-Bravo S., Jiménez P. & Fernández-Mazuecos M. 2016: *Avellara fistulosa*, e.T95314941A95314941. The IUCN Red List of Threatened Species



Aphia is the database that underlies WoRMS,  
a zoological database





# WORLD PORIFERA DATABASE

- Intro
- Species
- Specimens
- Distribution
- Checklist
- Sources
- Log in

## The World Porifera Database

The WPD, the World Database of all Recent sponges ever described, is part of the World Register of Marine Species (WoRMS), a global initiative to arrive at a register of all marine organisms. The WPD is complementary to the *Systema Porifera* (editors Hooper & Van Soest, 2002), the two volume comprehensive classification of all sponge taxa above the species level. It incorporates recent and future amendments of the sponge classification, including the recently proposed revision of Morrow & Cárdenas (2015).



### Porifera news



#### El Salvador rocky reef sponges

Added on: 2024-02-13 10:18:55 by van Soest, Rob W.M.

Trejo, A.; Segovia, J. (2024) Marine sponges of the rocky reefs of Punta eastern Tropical Pacific. Marine and Fishery Sciences 37 (3): xxx-xxx ...

## WoRDSS: The World Register of Deep-Sea Species



[Home](#) | [Search taxa](#) | [Browse taxa](#) | [Deep Sea ID App](#) | [Keys & guides](#) | [Images](#) | [Statistics](#) | [Contribute](#) | [Log in](#)

## World Register of Deep-Sea Species

Welcome to the World Register of Deep-Sea Species (WoRDSS), a taxonomic database of deep-sea species based on the [World Register of Marine Species](#) (WoRMS). This site was launched in December 2012 as a project of the [International Network for Scientific Investigation of Deep-sea Ecosystems](#) (INDEEP).

The primary goal of the project is to build a comprehensive database of known deep-sea species and to present this as a [thematic species database](#) (TSD) of WoRMS, with data being continually updated by WoRMS and the community.

Quick search - Scientific name

Search

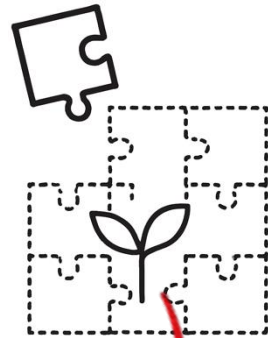
e.g. *Corygonocarpus arcticus*

26,476 species listed

Tweets by @DeepSeaSpp

Deep-Sea Species  
@DeepSeaSpp

Big thanks to @oceanexplorer team for contributing to our photo gallery. Check out all of their amazing pictures here



## Descriptions

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Desc

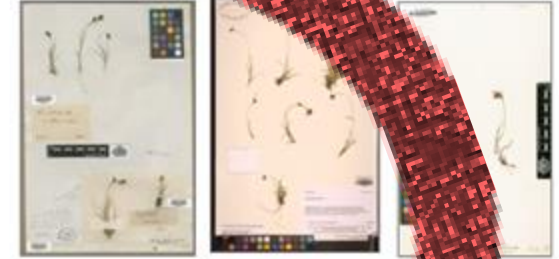
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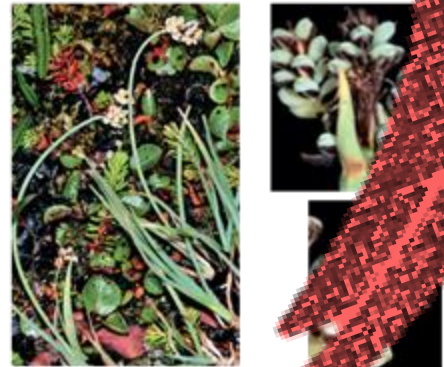
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[Accession: GenBank: 1000000000](#)

## Specimens



## Images



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- A. Martín-Bravo S., Jiménez P., & Fernández-Mazuecos M. 2016: Avellara fistulosa, e.T95314941A95314941, The IUCN Red List of Threatened Species.
- B. Tutin T. G. H. Burges N. A. & al. 1976: Flora europaea 4. - Cambridge: Cambridge University Press.



# How to run the engine

## **Basic sources of information needed:**

- Published descriptions**
- Herbarium material (incl. types)**
- Detailed images**
- Living specimens pictures**
- Revised distributions**
- Revised sequence data**

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Assembled by the core team



INPUT

contributors



International Sedge Society

# How does iSedge get feedback from contributors?



International Sedge Society

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Assembled by the core team



mined by the core team

## Curate

Assembled descriptions

Selected specimens

Photodocumented material

iNaturalist data

GBIF data

GenBank data

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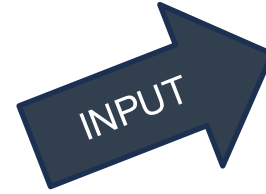
## Provide

- Best available descriptions
- Accurate specimens
- Pictures
- Pictures
- Occurrences
- Sequences

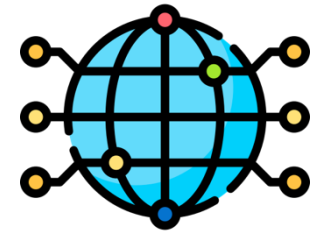
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Assembled by the core team



## contributors



International Sedge Society



**Taxon entry to be published**  
**Authored** by the contributors



**Where are we?**

**Nov 2025**

**Taxonomic names:** Over **30,000** names exported from POWO, curated and matched with the other consulted databases.

**Accepted species: 5793** species, 4070 submitted to basic processing [link protologues, types...] (remaining names mostly *Cyperus*).

### ★ ***Carex bracteosa* (Kunze ex Rchb.) Kunth**

**Synonymised names**

- ★ *Carex bracteosa* Kunze · unaccepted (Isonym)
- ★ *Carex bracteosa* Kunze ex Kunth · unaccepted (Misspelled authorship. This name...) +
- ☆ *Carex illustranda* Steud. · unaccepted
- ☆ *Carex luteola* Nees ex Boott · unaccepted
- ★ *Vignea bracteosa* Kunze ex Rchb. · unaccepted > junior objective synonym

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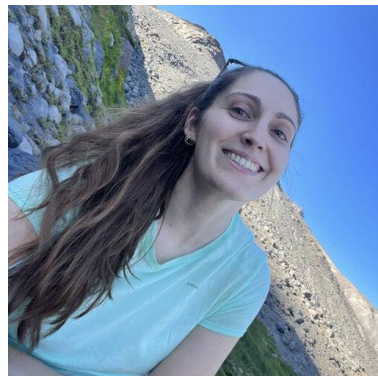
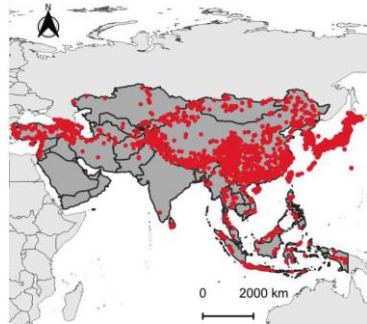
**Type specimens: 12858** links to externally hosted images of 5827 Cyperaceae names in >30 herbaria

**Other images:** 558 physical images (mostly fine scale details) hosted in Aphia from 331 species.



Nov 2025

**Distributions:** All 2098 *Carex* species had GBIF distributions revised. The remaining 3695 species have mostly distributions not revised yet.



María Sanz Arnal

*Global Ecology and Biogeography*

WILEY

Global Ecology  
and Biogeography

A Journal of  
Macroecology

DATA ARTICLE OPEN ACCESS

## A Comprehensive Database of Expert-Curated Occurrences for the Genus *Carex* L. (Cyperaceae)

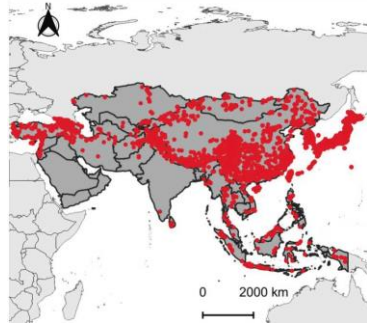
María Sanz-Arnal<sup>1,2</sup>  | Pablo García-Moro<sup>1</sup>  | Carmen Benítez-Benítez<sup>3</sup>  | Marina Coca-de-la-Iglesia<sup>4</sup>  |  
Angélica Gallego-Narbón<sup>4,5</sup>  | Consolación Barciela<sup>1</sup> | Fabrizio Bartolucci<sup>6</sup>  | Prabin Bhandari<sup>7,8,9</sup>  | Matthew Bradley<sup>10</sup> |  
Asunción Cano<sup>11</sup>  | Antoine Derouaux<sup>12</sup> | Sabina Donadio<sup>13</sup>  | Marcial Escudero<sup>3</sup>  | Mariela Fabbioni<sup>14</sup>  |  
Kerry A. Ford<sup>15</sup>  | Gabriele Galasso<sup>16</sup>  | Sebastian Gebauer<sup>17,18,19</sup>  | M. Socorro González-Elizondo<sup>20</sup>  |  
David Hamon<sup>21</sup>  | Matthias H. Hoffmann<sup>22</sup>  | Xiao-Feng Jin<sup>23</sup>  | Jacob Koopman<sup>24</sup>  | Bangze Li<sup>7,8,9</sup>  |  
Raúl Lois<sup>1,25</sup>  | Yi-Fei Lu<sup>21,26</sup>  | Modesto Luceño<sup>1</sup>  | José Ignacio Márquez-Corro<sup>1</sup>  | Santiago Martín-Bravo<sup>1</sup>  |  
Attila Mesterházy<sup>27</sup>  | Mónica Míguez<sup>1</sup>  | Ana Morales-Alonso<sup>1,2</sup>  | A. Muthama Muasya<sup>28</sup>  |  
Paulo Muñoz-Schüler<sup>1,29</sup>  | Robert F. C. Naczi<sup>30</sup>  | Nora Oleas<sup>31</sup>  | Luciana Pereira-Silva<sup>32</sup>  | Radomír Řepka<sup>33</sup>  |  
Anton A. Reznicek<sup>34</sup>  | Katie K. Sanbonmatsu<sup>7</sup>  | Enmily Sánchez<sup>31</sup>  | Daniel Spalink<sup>7</sup>  | Arne Strid<sup>35</sup>  |  
Pieter Vanormelingen<sup>36</sup> | Filip Verloove<sup>37</sup>  | Karen L. Wilson<sup>38</sup>  | Okihito Yano<sup>39</sup>  | Shuren Zhang<sup>8,9</sup>  |  
Pedro Jiménez-Mejías<sup>1</sup> 

Correspondence: María Sanz-Arnal ([maria.sanza@urjc.es](mailto:maria.sanza@urjc.es))

Received: 11 March 2025 | Revised: 25 July 2025 | Accepted: 4 September 2025

Nov 2025

**Distributions:** All 2098 *Carex* species had GBIF distributions revised. The remaining 3695 species have mostly distributions not revised yet.



**Images of fine scale details:** Digitization in progress. Potentially we have on hand samples of up to 60% all the species. We already have images of nutlets/utricles from about 300 species, most of them not uploaded yet.



# The Global Cyperaceae Database (GCypD)

## Introduction

Cyperaceae are one of the ten largest plant families in the world. The Global Cyperaceae Database (GCypD) is built on the World Checklist of Vascular Plants which has been imported to the Aphia platform of the [World Register of Marine Species](#) through World Flora Online (WFO). The international WFO Taxonomic Expert Network (TEN) for Cyperaceae will assess, edit and update the taxonomic information for this important family.

## A Global Cyperaceae Checklist and online taxonomic treatment

Datasets for the Cyperaceae from across the world were integrated in the Global Cyperaceae Database from 2023 onwards. Names were matched using POWO as initial reference. Entries were completed to differing levels by different authors (see authorship at the bottom of the corresponding data page). Distribution data originally compiled from POWO. Taxonomic concepts were initially derived from the data sources and updated according to subsequent treatments and under the criterion of the author in charge of the corresponding taxon.

## Acknowledgments

- All of the generous Data Providers
- The International Sedge Society (@IntSedgeSoc)
- Data Editor: XXXX
- C-INT Checklist Integration Program: XXXXX
- Data set preparation: XXXXX
- Data de-duplication: XXXX
- Nomenclatural advice: XXX
- Website: XXX
- People: XXX
- Institutions: [Pablo de Olavide University](#), [Royal Botanic Gardens Kew](#), [Flanders Marine Institute \(VLIZ\)](#)
- Funding: TETTRIs (Transforming European Taxonomy through Training, Research and Innovations)-Horizon 2020 EU [project Grant Agreement Nr 101081903 - Third Party Project Grant Contract -3PP; Contract iSedge 4/T2/3PP]; Ministerio de Ciencia, Innovación y Universidades - Gobierno de España [RYC2021-031238-I; project CNS223-14366S].
- Online resources: Biodiversity Heritage Library, Gallica, Botanicus, Real Jardín Botánico de Madrid, Internet Archive, International Plant Name Index (IPNI), Index Nominum Genericorum (ING), TDWG Geographic Standard, POWO, WFO

Cyperaceae taxon details

Carex nevadensis Boiss. & Reut.

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |                                       |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------|
| AphiaID                | 1694693 (urn:lsid:marinespecies.org:taxname:1694693)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |                                       |
| Classification         | Biota > <a href="#">Plantae</a> (Kingdom) > <a href="#">Viridiplantae</a> (Subkingdom) > <a href="#">Streptophyta</a> (Infrakingdom) > <a href="#">Tracheophyta</a> (Phylum (Division)) > <a href="#">Spermatophytina</a> (Subphylum (Subdivision)) > <a href="#">Magnoliopsida</a> (Class) > <a href="#">Lilanae</a> (Superorder) > <a href="#">Poales</a> (Order) > <a href="#">Cyperaceae</a> (Family) > <a href="#">Cariceae</a> (Tribe) > <a href="#">Carex</a> (Genus) > <a href="#">Carex</a> subg. <a href="#">Carex</a> (Subgenus) > <a href="#">Carex</a> sect. <a href="#">Ceratocystis</a> (Section) > <a href="#">Carex nevadensis</a> (Species)                                                                                                                                                                                                                                                |         |                                       |
| Status                 | accepted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                                       |
| Rank                   | Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                       |
| Parent                 | <a href="#">Carex</a> sect. <a href="#">Ceratocystis</a> Dumort.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |                                       |
| Original name          | <a href="#">Carex nevadensis</a> Boiss. & Reut.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |                                       |
| Synonymised names      | <a href="#">Carex flava</a> var. <a href="#">nevadensis</a> (Boiss. & Reut.) Briq. - unaccepted<br><a href="#">Carex lepidocarpa</a> subsp. <a href="#">nevadensis</a> (Boiss. & Reut.) Luceño - unaccepted<br><a href="#">Carex lepidocarpa</a> var. <a href="#">nevadensis</a> (Boiss. & Reut.) Kük. - unaccepted<br><a href="#">Carex mairei</a> subsp. <a href="#">nevadensis</a> (Boiss. & Reut.) Malag. - unaccepted<br><a href="#">Carex oederi</a> Willk. - unaccepted<br><a href="#">Carex oederi</a> subsp. <a href="#">nevadensis</a> (Boiss. & Reut.) Nyman - unaccepted<br><a href="#">Carex oederi</a> var. <a href="#">nevadensis</a> (Boiss. & Reut.) K.Richt. - unaccepted<br><a href="#">Carex viridula</a> subsp. <a href="#">nevadensis</a> (Boiss. & Reut.) B.Schmid - unaccepted<br><a href="#">Carex viridula</a> var. <a href="#">nevadensis</a> (Boiss. & Reut.) Crins - unaccepted |         |                                       |
| Direct children (3)    | Subspecies <a href="#">Carex nevadensis</a> subsp. <a href="#">alpina</a> (Kneuck.) Podlech accepted as <a href="#">Carex flava</a> L.<br>Subspecies <a href="#">Carex nevadensis</a> subsp. <a href="#">flavella</a> (V.I.Krecz.) Patzke & Podlech accepted as <a href="#">Carex flava</a> L.<br>Variety <a href="#">Carex nevadensis</a> var. <a href="#">minuta</a> Christ ex Briq. accepted as <a href="#">Carex oederi</a> var. <a href="#">oederi</a> accepted as <a href="#">Carex oederi</a> Retz.                                                                                                                                                                                                                                                                                                                                                                                                   |         |                                       |
| Environment            | terrestrial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                                       |
| Original description   | Boissier, P.E. & Reuter, G.F. (1852). Pugillus plantarum novarum Africae borealis Hispaniaeque australis. Genevae: Ex typographia Ferd. Ramboz et socii. , available online at <a href="https://bibdigital.rjb.csic.es/du/1/19477">https://bibdigital.rjb.csic.es/du/1/19477</a> page(s): 118 [details]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |                                       |
| Type data              | <a href="#">Lectotype</a> G 00191514, geocunt Spain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |                                       |
| Descriptive notes      | <a href="#">Description</a> Cespitosa. Tallos fértiles de (1)3-12(20) cm, obtusamente trigonos y lisos. Hojas de 1-3,1 mm de anchura, de longitud...<br><a href="#">Taxonomic remark</a> Carex nevadensis is an endemic species of the high mountain ranges of southeastern Spain (Sierra Nevada, Filabres, and...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                                       |
| Taxonomic citation     | Cyperaceae Working Group. (2025). [see How to cite], Global Cyperaceae Database. <a href="#">Carex nevadensis</a> Boiss. & Reut.. Accessed at: <a href="https://www.cyperaceae.org/aphia.php?p=taxdetails&amp;id=1694693">https://www.cyperaceae.org/aphia.php?p=taxdetails&amp;id=1694693</a> on 2025-10-06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |                                       |
| Taxonomic edit history | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | action  | by                                    |
|                        | 2023-09-06 09:29:14Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | created | <a href="#">Jiménez-Mejías, Pedro</a> |
|                        | 2024-10-23 08:08:46Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | changed | <a href="#">Jiménez-Mejías, Pedro</a> |
|                        | 2025-03-27 10:38:29Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | changed | <a href="#">Jiménez-Mejías, Pedro</a> |
| Licensing              | The webpage text is licensed under a Creative Commons <a href="#">Attribution 4.0 License</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                                       |



To Genève Her...

|             |                             |               |           |                |            |            |
|-------------|-----------------------------|---------------|-----------|----------------|------------|------------|
| Sources (6) | Documented distribution (2) | Specimens (1) | Notes (3) | Attributes (1) | Links (33) | Images (8) |
|-------------|-----------------------------|---------------|-----------|----------------|------------|------------|

NOMENCLATURE

**original description** Boissier, P.E. & Reuter, G.F. (1852). Pugillus plantarum novarum Africae borealis Hispaniaeque australis. Genevae: Ex typographia Ferd. Ramboz et socii. , available online at <https://bibdigital.rjb.csic.es/du/1/19477> page(s): 118 [details]

**basis of record** Plants of the World Online (POWO). , available online at <https://powo.science.kew.org/> [details]

TAXONOMY

**taxonomy source** Jiménez-Mejías, P.; Luceño, M.; Martín-Bravo, S. (2014). Species boundaries within the southwest old world populations of the carex flava group (cyperaceae). Systematic Botany, 39(1): 117-131., available online at <https://doi.org/10.1600/036364414X677973> [details] Available for editors [request]

**taxonomy source** Luceño, M.; Escudero, M.; Jiménez-Mejías, P. (2008). Carex L. In Castroviejo S., Luceño M., Galán A., Jiménez-Mejías P., Cabezas F., Medina L. (eds.), Flora Iberica. Vol. XVIII: Cyperaceae-Pontederiaceae. Madrid: Real Jardín Botánico, CSIC., available online at [http://www.floraiberica.es/floraiberica/texto/pdfs/18\\_173\\_20\\_Carex.pdf](http://www.floraiberica.es/floraiberica/texto/pdfs/18_173_20_Carex.pdf) page(s): 198 [details] Available for editors [request]

OTHER

**additional source** Jiménez-Mejías, P.; Martín-Bravo, S.; Luceño, M. (2012). Systematics and taxonomy of Carex sect. Ceratocystis (cyperaceae) in Europe: A molecular and cytogenetic approach. Systematic Botany, 37(2): 382-398., available online at <https://doi.org/10.1600/036364412X635449> note: Phylogenetics, cytogenetics [details] Available for editors [request]

**additional source** Jiménez-Mejías, P.; Benítez-Benítez, C.; Fernández-Mazuecos, M.; Martín-Bravo, S. (2017). Cut from the same cloth: The convergent evolution of dwarf morphotypes of the Carex flava group (Cyperaceae) in Circum-Mediterranean mountains. PLOS ONE. 12(12): e0189769., available online at <https://doi.org/10.1371/journal.pone.0189769> note: Convergent evolution of dwarf morphotypes in Carex sect. Ceratocystis [details] Available for editors [request]

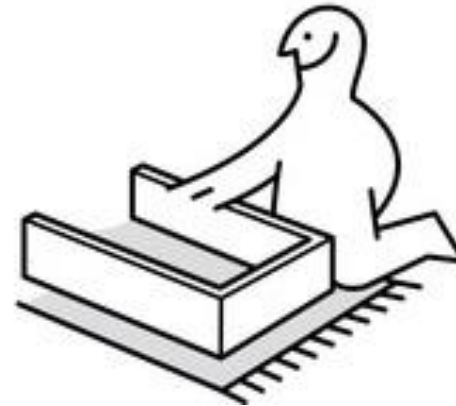
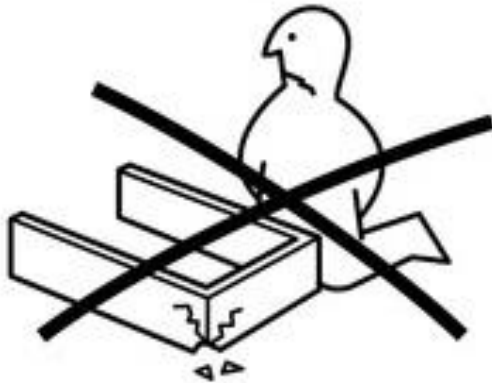


# **The rocky road**

## Overambition vs realistic goals



You don't really know the limitations until you start working on it



## Overambition vs realistic goals



Dramatization of the PI designing iSedge project



Dramatization of the VLIZ team addressing every single proposal from the PI as in the PI's mind

## Overambition vs realistic goals



You don't really know the limitations until you start working on it

### Aphia platform

- Created to host zoological databases



## Overambition vs realistic goals



You don't really know the limitations until you start working on it

### Aphia platform

- Created to host zoological databases

Adaptation to botany slow and progressive to avoid affection to frameworks shared with zoology projects



AI-based Artistic representation  
of Aphia crashing their databases  
because our disruption

## Overambition vs realistic goals



You don't really know the limitations until you start working on it

### Aphia platform

- Created to host zoological databases

Adaptation to botany slow and progressive to avoid affection to frameworks shared with zoology projects

We are still in the process of creation of a parallel botany-based framework.

#### unaccepted

- » nomen nudum
- » interim unpublished
- » superseded combination
- » junior homonym
- » junior subjective synonym
- » junior objective synonym
- » nomen oblitum
- » misspelling - incorrect original spelling
- » misspelling - incorrect subsequent spelling
- » unjustified emendation
- » incorrect grammatical agreement of specific epithet
- » misapplication
- » unavailable name
- » superseded rank

## unaccepted

- » nomen nudum
- » interim unpublished
- » superseded combination
- » junior homonym
- » junior subjective synonym
- » junior objective synonym
- » nomen oblitum
- » misspelling - incorrect original spelling
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- » incorrect grammatical agreement of specific epithet
- » misapplication
- » unavailable name
- » superseded rank



Later homonym  
Heterotypic synonym  
Homotypic synonym



Invalid name



## unaccepted

- » nomen nudum
- » interim unpublished
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## Overambition vs realistic goals



You don't really know the limitations until you start working on it

### Aphia platform

- Created to host zoological databases

Adaptation to botany slow and progressive to avoid affection to frameworks shared with zoology projects



The differences in the terminology used in nomenclature became a barrier for the engagement of editors

Later homonym

Heterotypic synonym

Homotypic synonym



Invalid name



unaccepted

» nomen nudum

» interim unpublished

» superseded combination

» junior homonym

» junior subjective synonym

» junior objective synonym

» nomen oblitum

» misspelling - incorrect original spelling

» misspelling - incorrect subsequent spelling

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» unavailable name

» superseded rank

## Overambition vs realistic goals



You don't really know the limitations until you start working on it

### Aphia platform

- We made requests that were too complex and affected the core of Aphia itself.  
Some ideas had to be left aside.
- Automatic link of validated iNaturalist images



# Observations



Scirpoides holoschoenus



Location

Go

Filters

The World

7,337  
OBSERVATIONS

1  
SPECIES

617  
IDENTIFIERS

2,605  
OBSERVERS

- Map
- Grid
- List



Scirpoides holoschoenus

1

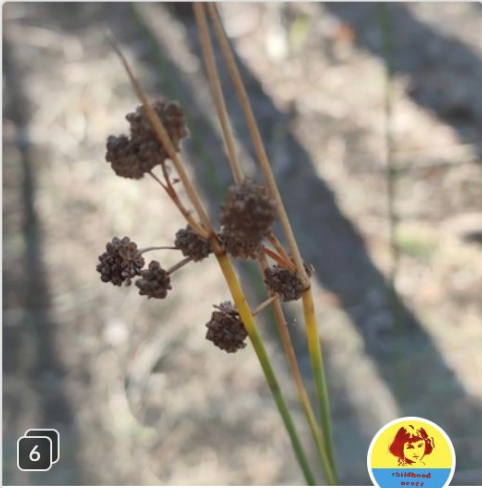
3d



Scirpoides holoschoenus

1

3d

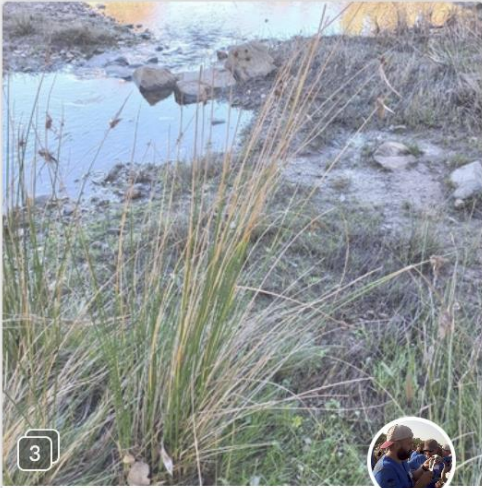


Scirpoides holoschoenus

Research Grade

2

2d



3 photos  
Scirpoides holoschoenus

Research Grade

2

3d



# Observations



Scirpoides holoschoenus



Location



The World

258  
OBSERVATIONS

1  
SPECIES



48  
IDENTIFIERS



140  
OBSERVERS



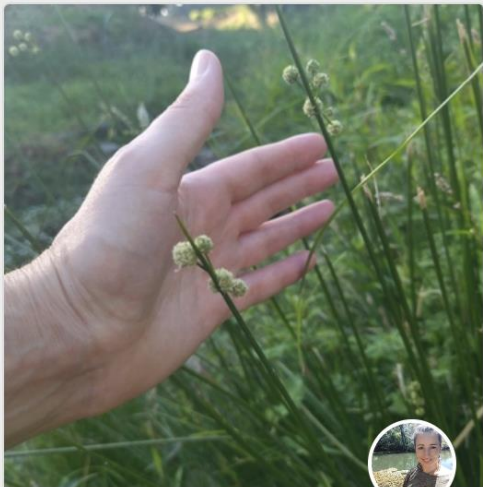
Map



Grid



List



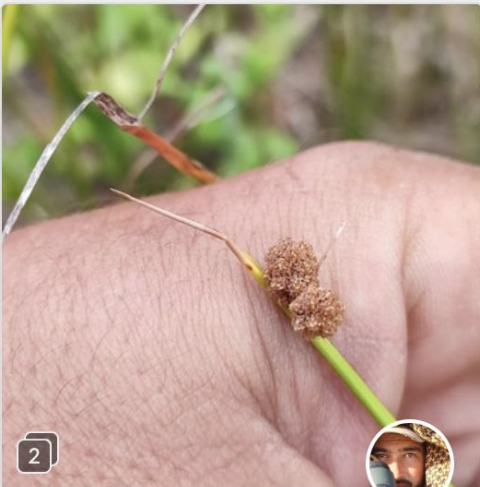
*Scirpoides holoschoenus*

Research Grade



3

Aug '23



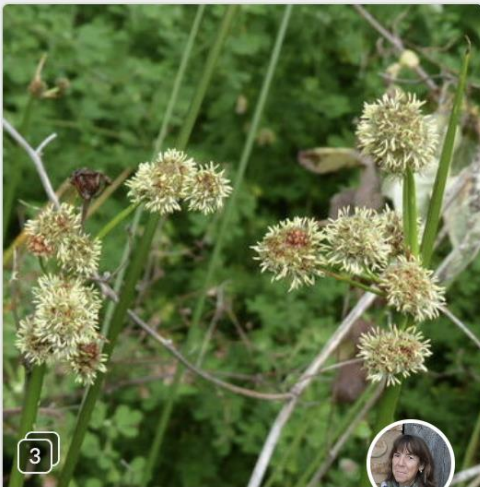
*Scirpoides holoschoenus*

Research Grade



3

Jul '23



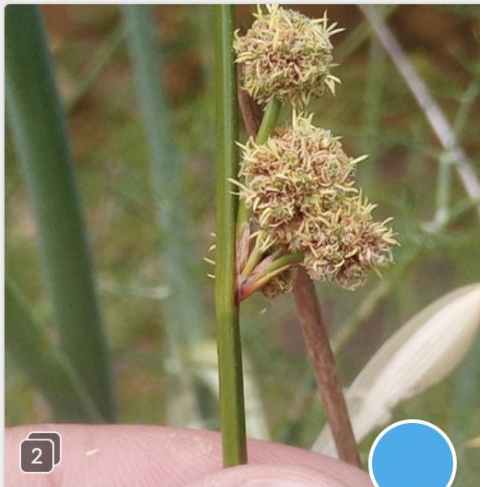
*Scirpoides holoschoenus*

Research Grade



4

May '23



*Scirpoides holoschoenus*

Research Grade



2

May '23

## Overambition vs realistic goals



You don't really know the limitations until you start working on it

### Aphia platform

- We made requests that were too complex and affected the core of Aphia itself.  
Some ideas had to be left aside.

- Automatic link of validated iNaturalist images

Observations could have been filtered by trusted identifiers, providing the website with a wealth of well-identified images to illustrate species.  
To implement it was not as easy as we believed!



## Overambition vs realistic goals



You don't really know the limitations until you start working on it

### Processing bottlenecks

- Photodocumenting tiny structures takes time!

Image of a *Scirpodendron bogneri* nutlet hosted on the website



## Overambition vs realistic goals



You don't really know the limitations until you start working on it

### Processing bottlenecks

- Photodocumenting tiny structures takes time!
  - 3 minutes for manipulation of the sample
  - 2 minutes for manipulation of the software



## Overambition vs realistic goals



You don't really know the limitations until you start working on it

### Processing bottlenecks

- Photodocumenting tiny structures takes time!
  - 3 minutes for manipulation of the sample
  - 2 minutes for manipulation of the software
  - 2 minutes to take the image
  - 3 minutes to check the result and store
  - 5 minutes to prepare caption and upload
  - One sample takes 15 minutes at best!**

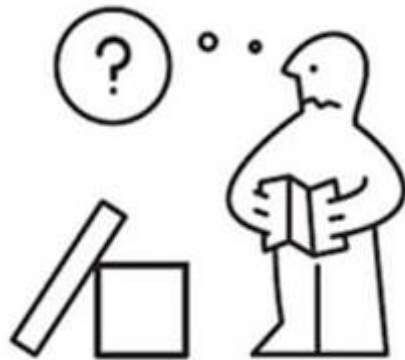
AI edited image. Aging is not real but it could be





## Engagement

Everyone likes success, but not everyone likes the struggle it takes to get there.





## Engagement

Everyone likes success, but not everyone likes the struggle it takes to get there.

### Editors

- Aphia preferred a collective authorship, such as 'Cyperaceae Working Group,' rather than acknowledging individual authors.
- but**
- Editors did not like it...

### How to cite

#### Citation

The use of data from the Global Cyperaceae Database in scientific publications should be acknowledged by citing as follows:

- Cyperaceae Working Group. (2025). [see How to cite]. Global Cyperaceae Database. Accessed at <https://www.cyperaceae.org> on 2025-10-22. doi:10.14284/681

For a more comprehensive and recommended citation of the **website and database as a whole**, explicitly recognizing the entire team, please use the following format:

- Jiménez-Mejías, P.; Márquez-Corro, J. I.; Larridon, I.; Marco Rosado, N.; Sanz-Arnal, M.; Barrett, R.L.; Bhandari, P.; Bradshaw, C.; Browning, J.; Bruhl, J.J.; Costa, S.M.; Elliott, T.; Ford, B.; Ford, K.; García-Moro, P.; García-Rodríguez, R.; Gebauer, S.; Gil, A.; Goetghebeur, P.; González-Elizondo, M.S.; González-Gallego, L.; Govaerts, R.; Hipp, A.; Hoshino, T.; Hroudová, Z.; Jin, X.-F.; Jung, M.; Karina, A.; Kim, S.; Lacroix-Carignan, É.; Léveillé-Bourret, É.; Licher, M.; Lois, R.; Lu, Y.-F.; Luceño, M.; Maciel Silva, J.; Marhold, K.; Martín-Bravo, S.; Masaki, T.; Mesterházy, A.; Morales-Alonso, A.; Morel, J.; Míguez, M.; Muasya, A.M.; Muñoz Schüller, P.; Naczi, R.F.C.; Nunes, C.; Pereira-Silva, L.; Poindexter, D.; Rasaminirina, F.; Reznicek, A.A.; Rink, G.; Sánchez-Villegas, R.; Schneider, L.; Silva, P.J.; Simpson, D.A.; Spalink, D.; Starr, J.; Takahashi, K.T.; Thomas, W.W.; Tucker, G.C.; Uy, Millard; Valdés-Florido, A.; Verloove, F.; Villaverde, T.; Wilson, K.L.; Xanthos, M.; Yano, O.; Zhang, S. (2025). Global Cyperaceae Database. Accessed at <https://www.cyperaceae.org> on 2025-06-26. doi:10.14284/681

Individual pages for **genera, subgenera, and sections** have distinct authorship and can be cited separately.



## Engagement

Everyone likes success, but not everyone likes the struggle it takes to get there.

### Editors

- Aphia preferred a collective authorship, such as 'Cyperaceae Working Group,' rather than acknowledging individual authors.

**but**

- The different authorships formulas did not satisfy all editors either...

### How to cite

#### Citation

The use of data from the Global Cyperaceae Database in scientific publications should be acknowledged by citing as follows:

- Cyperaceae Working Group. (2025). [see How to cite]. Global Cyperaceae Database. Accessed at <https://www.cyperaceae.org> on 2025-10-22. doi:10.14284/681

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Individual pages for genera, subgenera, and sections have distinct authorship and can be cited separately.

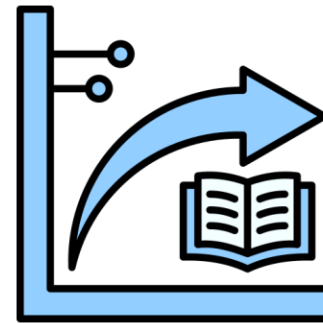


## Engagement

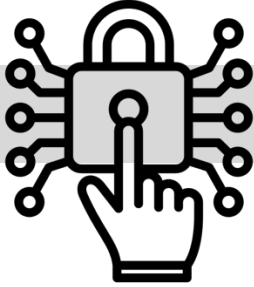
Everyone likes success, but not everyone likes the struggle it takes to get there.

### Editors

- Learning curve: Aphia is easy to use, but mastering it takes time.



- Almost all editors resorted to the Core Team to implement changes.

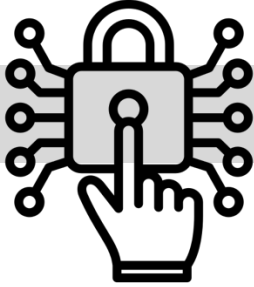


## Data/material accessibility

Data is out there, but not always accessible.

### Herbaria

- Some were reluctant to provide data to *strangers* (large collections are an exception)
- Previous/complex agreements needed → delays
- Restrictions to loans (limited our ability to digitize fruits)



## Data/material accessibility

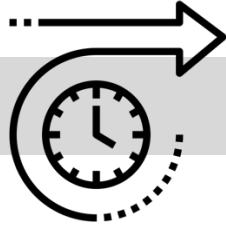
Data is out there, but not always accessible.

### Herbaria

- Some were reluctant to provide data to *strangers* (large collections are an exception)
- Previous/complex agreements needed → delays
- Restrictions to loans (limited our ability to digitize fruits)
- Key herbaria does not have digitized material or even lack complete databases

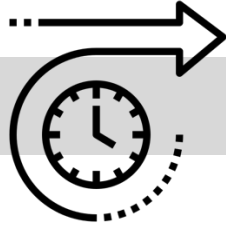
The type collection of the late Prof. Kare Lye has not been found in any of the consulted databases. He described 180 sedge species. The types of many of them remain unlocated,





## The long term

Doing things well is good; making them last is even better.



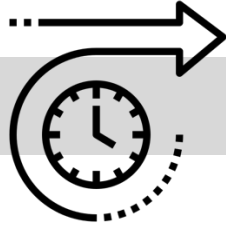
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### **Persistence of the platform/data**

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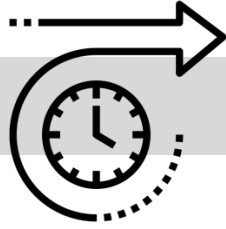
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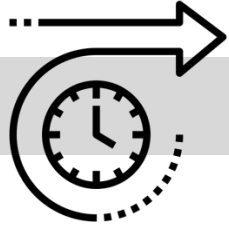
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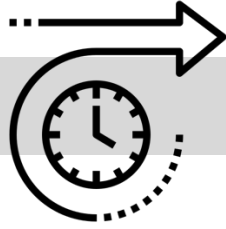
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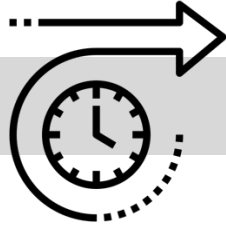
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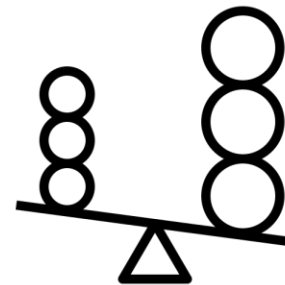


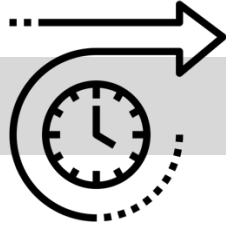
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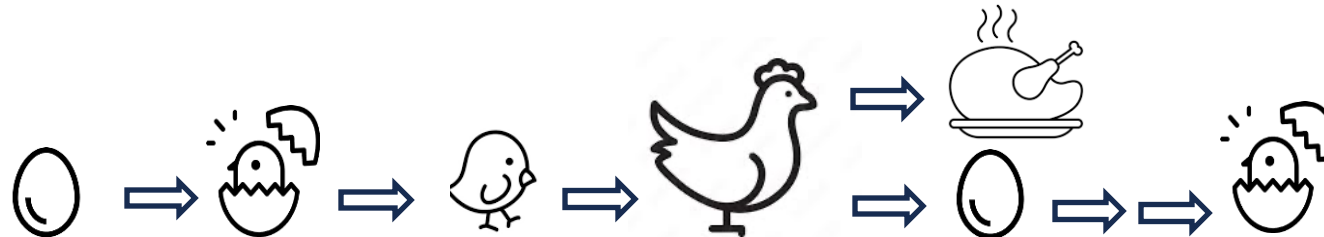


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- Most the implementation of taxonomic information in the platform has been developed by the core team at Pablo de Olavide University.
- To ensure the platform's future as a truly dynamic taxonomic resource, greater engagement is needed, and a future leadership transition planned.





# **Take home messages**

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The plan may be somehow distant from the final result. It is key to remain open and understand the limitations.



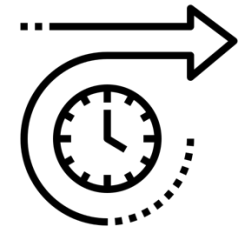
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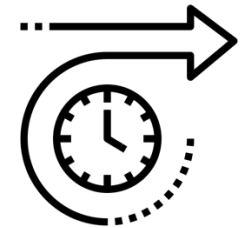
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There is a wealth of taxonomic information on sedges already available and ready for you to be used!

# CYPERACEAE

*Global Cyperaceae Database*



Thank you!  
¡Gracias!





## Overambition vs realistic goals



You don't really know the limitations until you start working on it

### Aphia platform

- Requests that are too complex and affects the core of Aphia itself.  
Some ideas had to be left aside.
  - Curated (trusted) occurrences could not be displayed together GBIF occurrences

Maps combining raw GBIF occurrences and trusted occurrences from our databases would be of help for visual evaluation.

But plotting occurrences on Aphia is not something straightforward!

