

# Introducción a los Data Papers

Estandarización, documentación y publicación de datos de seguimientos de biodiversidad

Taller GBIF.ES - Sevilla

28-30/10/2025

**Antonio J. Pérez-Luque**

Instituto de Ciencias Forestales ICIFOR-INIA, CSIC

# Publicación de Datos

... ¿porqué publicar  
Datos?

# ... ¿porqué publicar Datos?

- Necesitamos más información para poder abordar la actual crisis de la biodiversidad

Biological Conservation 213 (2017) 335–340

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 ELSEVIER

Contents lists available at ScienceDirect

**Biological Conservation**

journal homepage: [www.elsevier.com/locate/bioc](http://www.elsevier.com/locate/bioc)

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**Unblocking the flow of biodiversity data for decision-making in Africa**

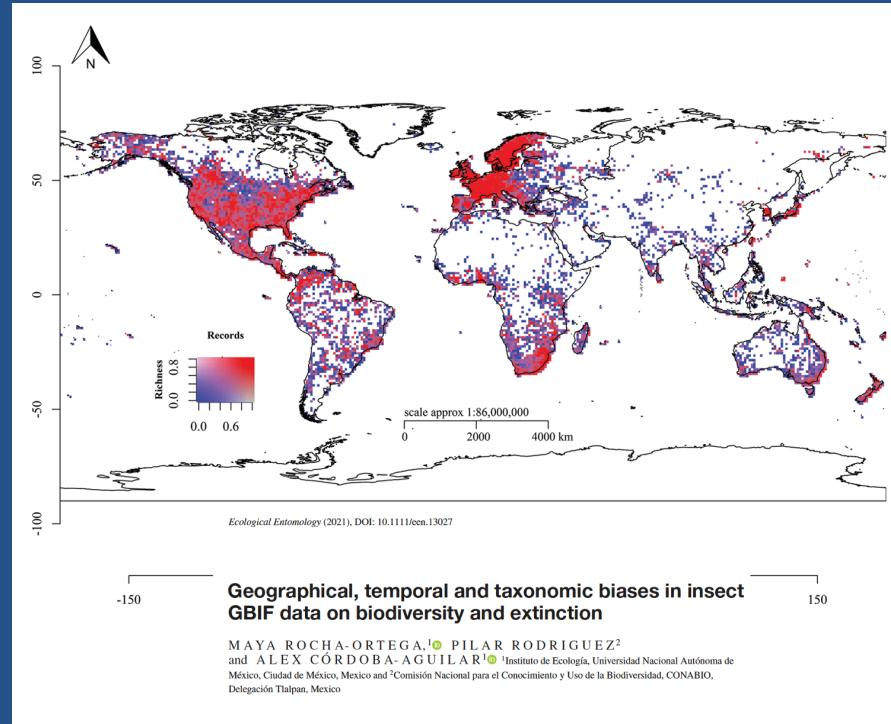
P.J. Stephenson <sup>a,\*<sup>1</sup></sup>, Nadine Bowles-Newark <sup>b</sup>, Eugenie Regan <sup>b,2</sup>, Damon Stanwell-Smith <sup>b,3</sup>, Mallé Diagana <sup>c,4</sup>, Robert Höft <sup>d</sup>, Harouna Abarchi <sup>e</sup>, Tanya Abrahamse <sup>f</sup>, Christine Akello <sup>g</sup>, Hilary Allison <sup>b</sup>, Olaf Banki <sup>m</sup>, Barthélémy Batieno <sup>h</sup>, Samuel Dieme <sup>i</sup>, Arthur Domingos <sup>j</sup>, Russell Galt <sup>f</sup>, Cicilia W. Githaiga <sup>k</sup>, Abdoulaye Bine Guindo <sup>l</sup>, David L.N. Hafashimana <sup>g</sup>, Tim Hirsch <sup>m</sup>, Donald Hobern <sup>m</sup>, John Kaaya <sup>n</sup>, Ronald Kaggwa <sup>g</sup>, Martha Mphatso Kalemba <sup>o</sup>, Ibrahim Linjouom <sup>p</sup>, Budu Manaka <sup>f</sup>, Zawadi Mbwambo <sup>q</sup>, Monipher Musasa <sup>o</sup>, Eric Okoree <sup>r</sup>, Aggrey Rwetsiba <sup>g</sup>, Ahmat Brahim Siam <sup>s</sup>, Adjima Thiombiano <sup>t</sup>

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<sup>i</sup> University of Cape Town, Cape Town, South Africa  
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<sup>s</sup> University of Cape Town, Cape Town, South Africa  
<sup>t</sup> University of Cape Town, Cape Town, South Africa

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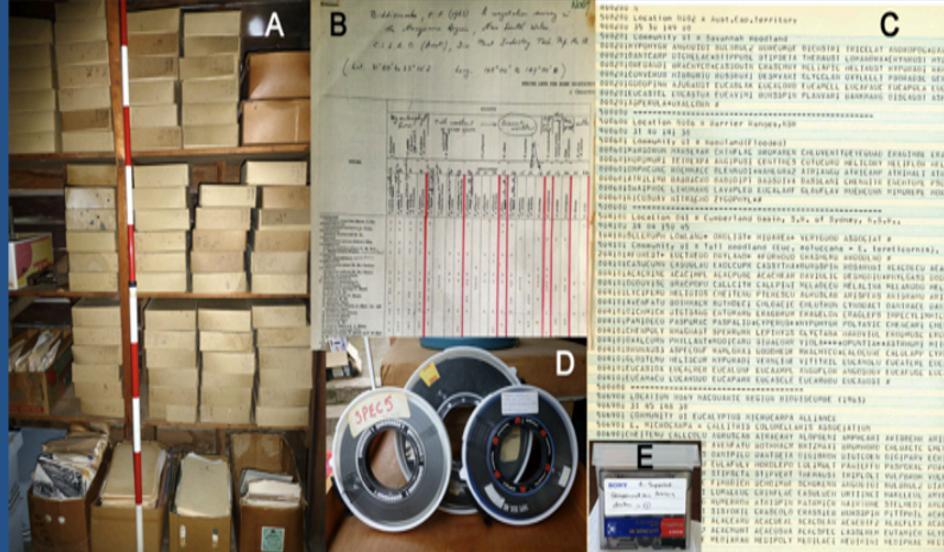
# ... ¿porqué publicar Datos?

- Existencia de sesgos (temporales, espaciales, taxonómicos) en la información disponible



# ... ¿porqué publicar Datos?

- Gran parte de los datos **no están accesibles** imposibilitando su reutilización



datos **En Peligro de Extinción**

# ... ¿porqué publicar Datos?

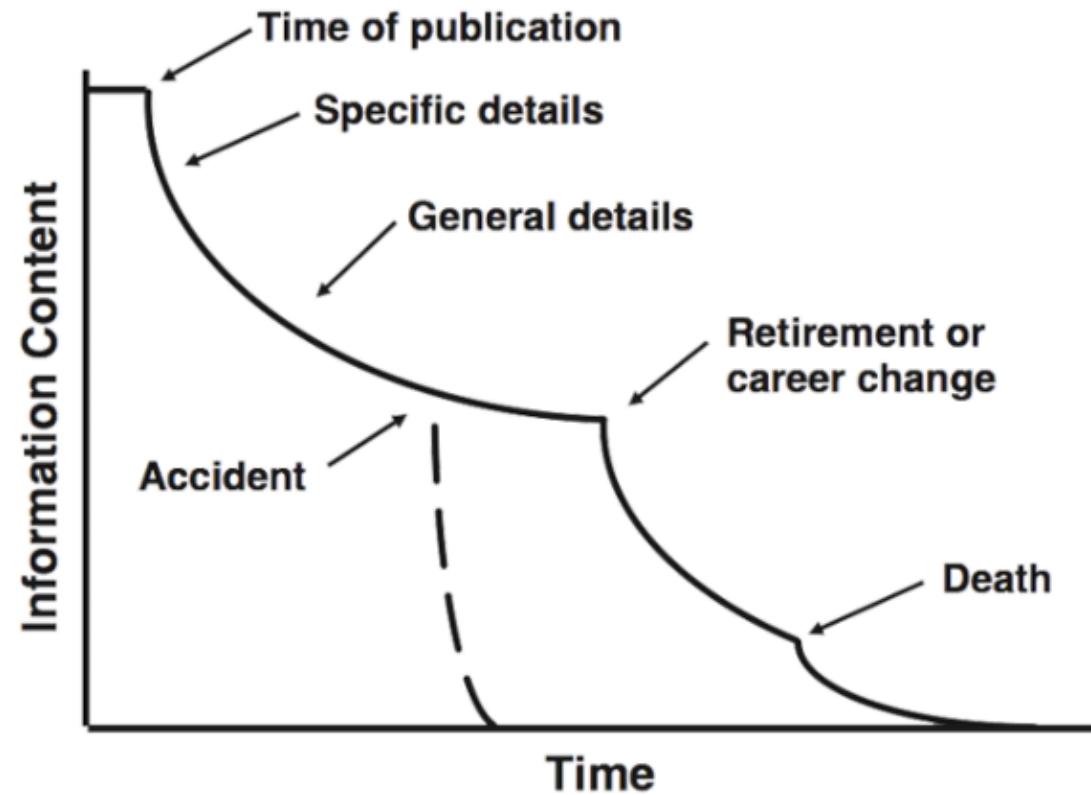
The early bird gets the return: The benefits of publishing your data sooner

**TABLE 1** A list of proposed benefits to publishing data when the data collection process is complete. The benefits of publishing data prior to report or paper writing are developed, and two categories of benefit are proposed

Item	Benefit	Description	Category
1	Tidy data sooner	Publishing promotes attention to more presentable and tidy data	Efficiency and data improvements
2	More readable data	Data in a repository can be sourced remotely and iteratively read into R with replicable QA/WC workflows coded	Efficiency and data improvements
3	Simplifies versioning and provenance	Data repositories support versioning. This ensures transparent and reproducible science. It also reduces confusion and promotes data integrity with cleaning and manipulations done from an established data asset	Efficiency and data improvements
4	Data are archived and online	Publishing in an established data repository is your insurance against lost data, accidental deletions, and for larger files supports distributed online and potentially collaborative analyses	Efficiency and data improvements
5	Metadata are described more clearly and enable easier paper writing	Writing metadata develops clear thinking and supports effective description of the data and easier writing of methods and results if used in a publication. Different metadata languages engender structural thinking and can also highlight gaps in data.	Efficiency and data improvements
6	Error checking	Individuals outside your team and authors can catch errors. Referees on papers or stakeholders can review data and metadata and provide input on clarity	Efficiency and data improvements
7	Sharing within team facilitated	Data can be stored online and a link shared versus various versions of files shared by email	Efficiency and data improvements
8	Establishes precedence	Peer review can take time. Similar to preprints, publish your data sooner can establish precedence and provide a citable object. More broadly, it accelerates collective discovery	Team science and societal good
9	Increases likelihood of acceptance of a paper and supports open science	It is likely that open data facilitate more rapid and positive peer review of a paper using those data. It demonstrates a commitment to open science, and the authors can also cite their own data in their paper if data are online in advance	Team science and societal good
10	Attribution	Data are a valid research object and can be assigned a citable DOI. Authorship, land acknowledgement, and funding can be recognized. Most agencies require data publication, and sooner is better	Team science and societal good

## ... ¿porqué publicar Datos?

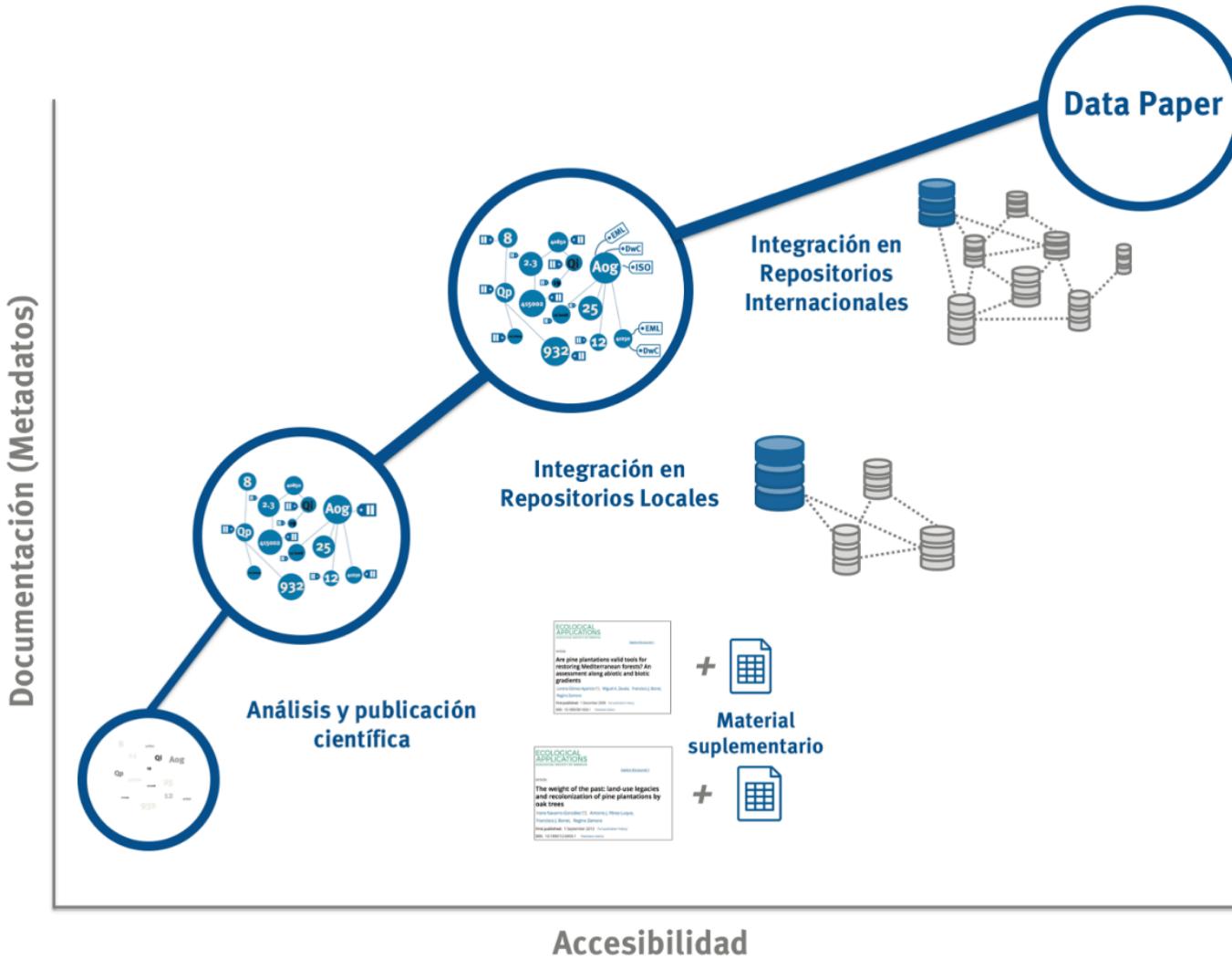
Reducción del riesgo de pérdida de los datos



... obstáculos para  
publicar Datos

La mayoría de los investigadores reconocen la importancia de compartir datos (**beneficios**), aunque señalan diferentes barreras (**costes**)

... Data Paper



*Artículo académico que describe un conjunto de datos de biodiversidad y se publica en una revista científica al uso*

Chavan and Penev *BMC Bioinformatics* 2011, **12**(Suppl 15):S2  
<http://www.biomedcentral.com/1471-2105/12/S15/S2>

 BMC  
Bioinformatics

**RESEARCH** **Open Access**

## The data paper: a mechanism to incentivize data publishing in biodiversity science

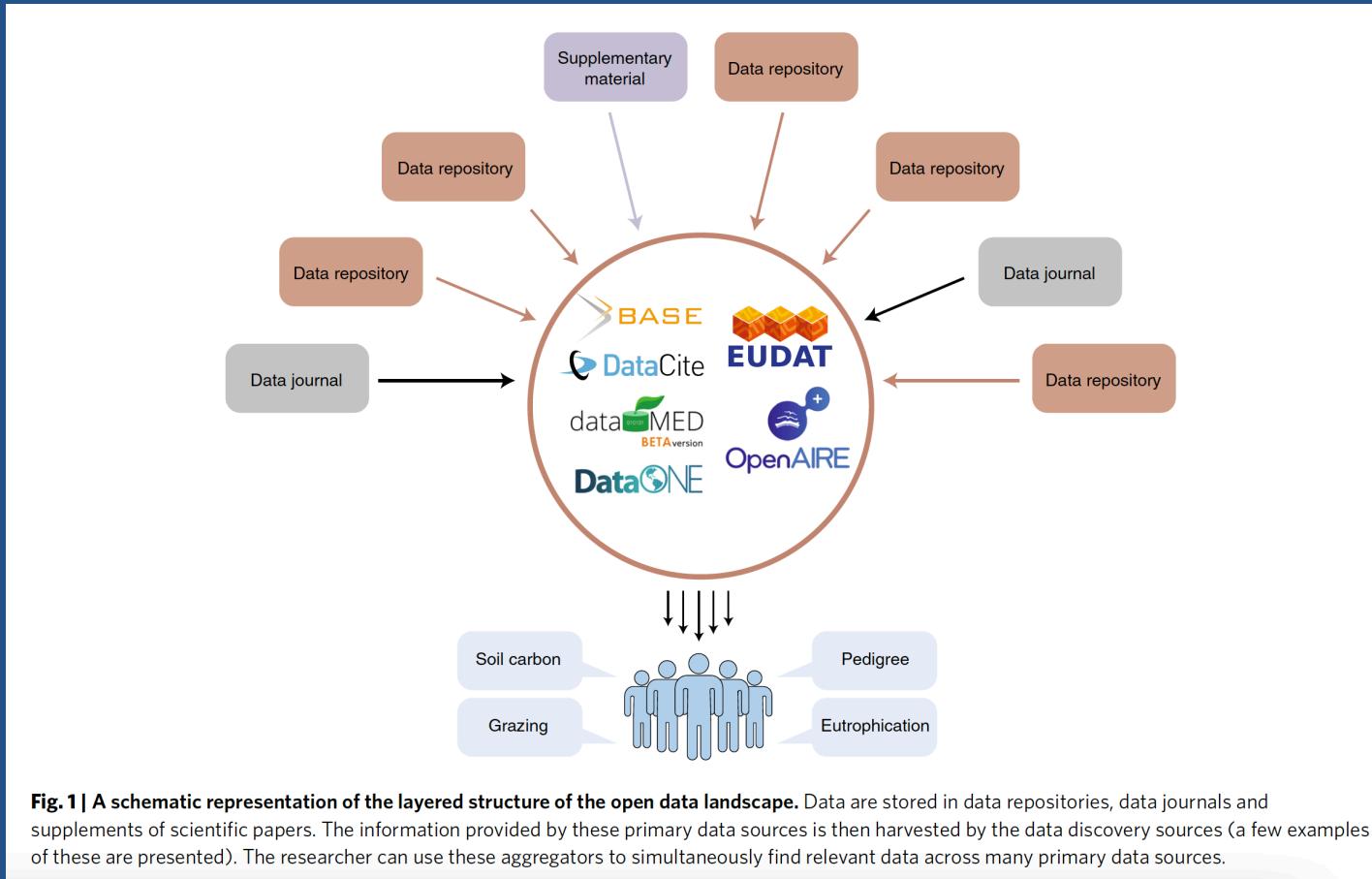
Vishwas Chavan<sup>1,2\*</sup>, Lyubomir Penev<sup>1,2†</sup>

Chavan & Penev (2011)

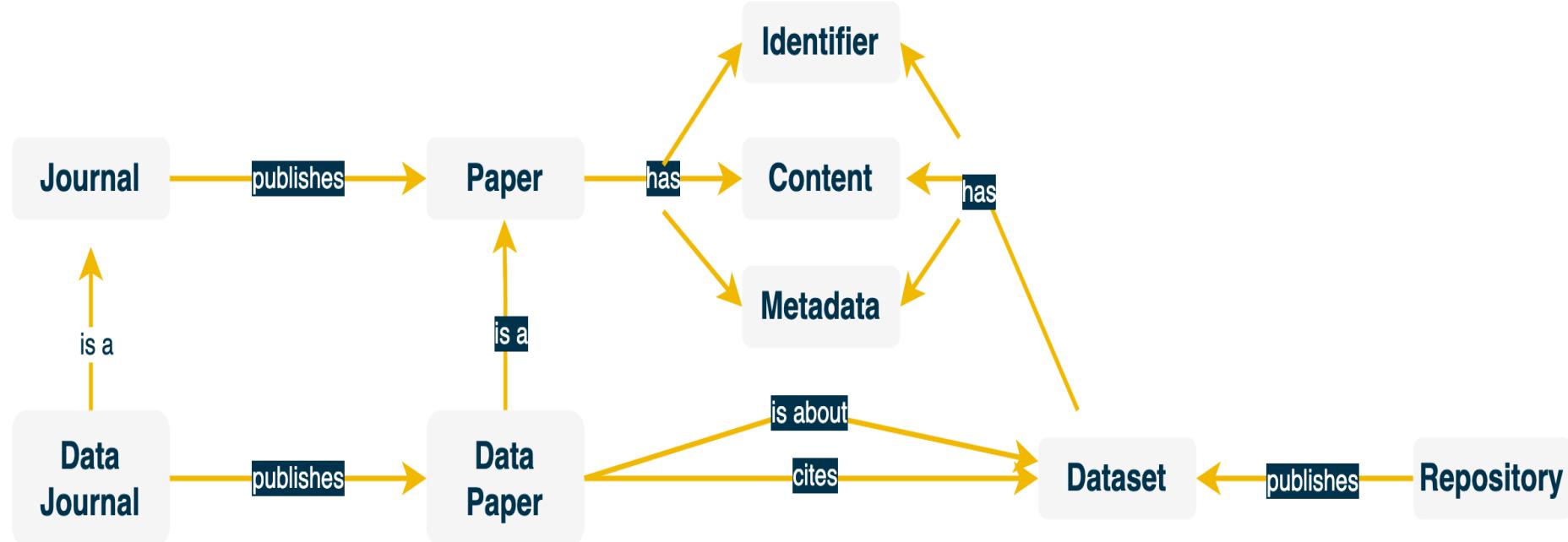
# ¿Qué es un Data Paper?

# ¿Qué es un Data Paper?

## Landscape of Open Data in ecology



# dataset, repositorios, data paper ...



Candela et al. (2015)

# Objetivos de un Data Paper

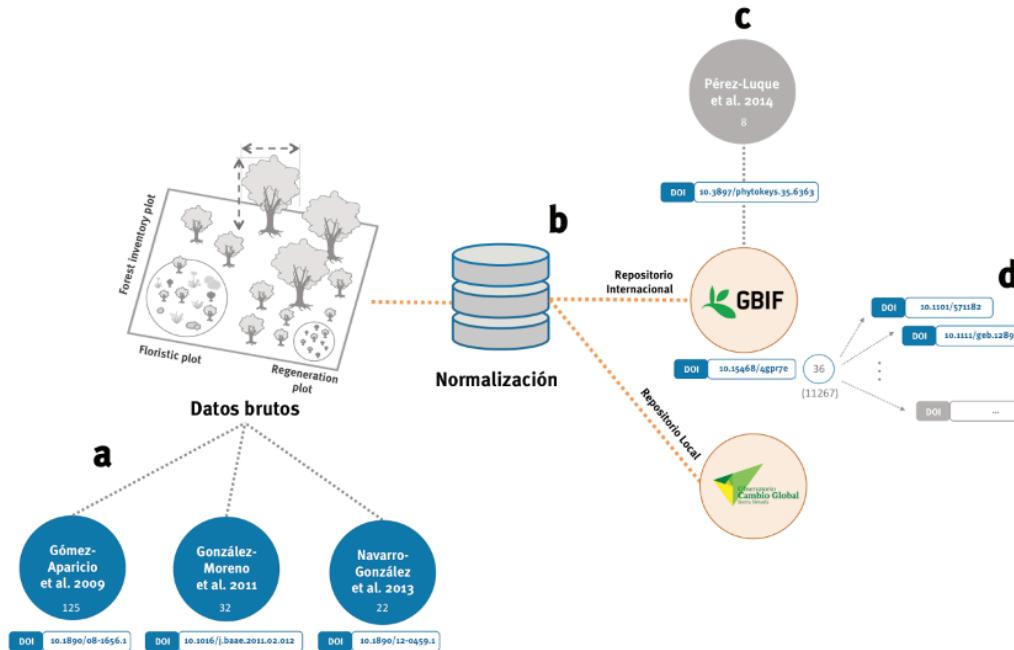
- Proporcionar una publicación científica citable que dé reconocimiento académico (beneficio) a los proveedores de datos
- Describir los datos de una forma entendible y estructurada
- Facilitar la visibilidad de los datos de biodiversidad entre la comunidad científica

# Beneficios de un Data Paper

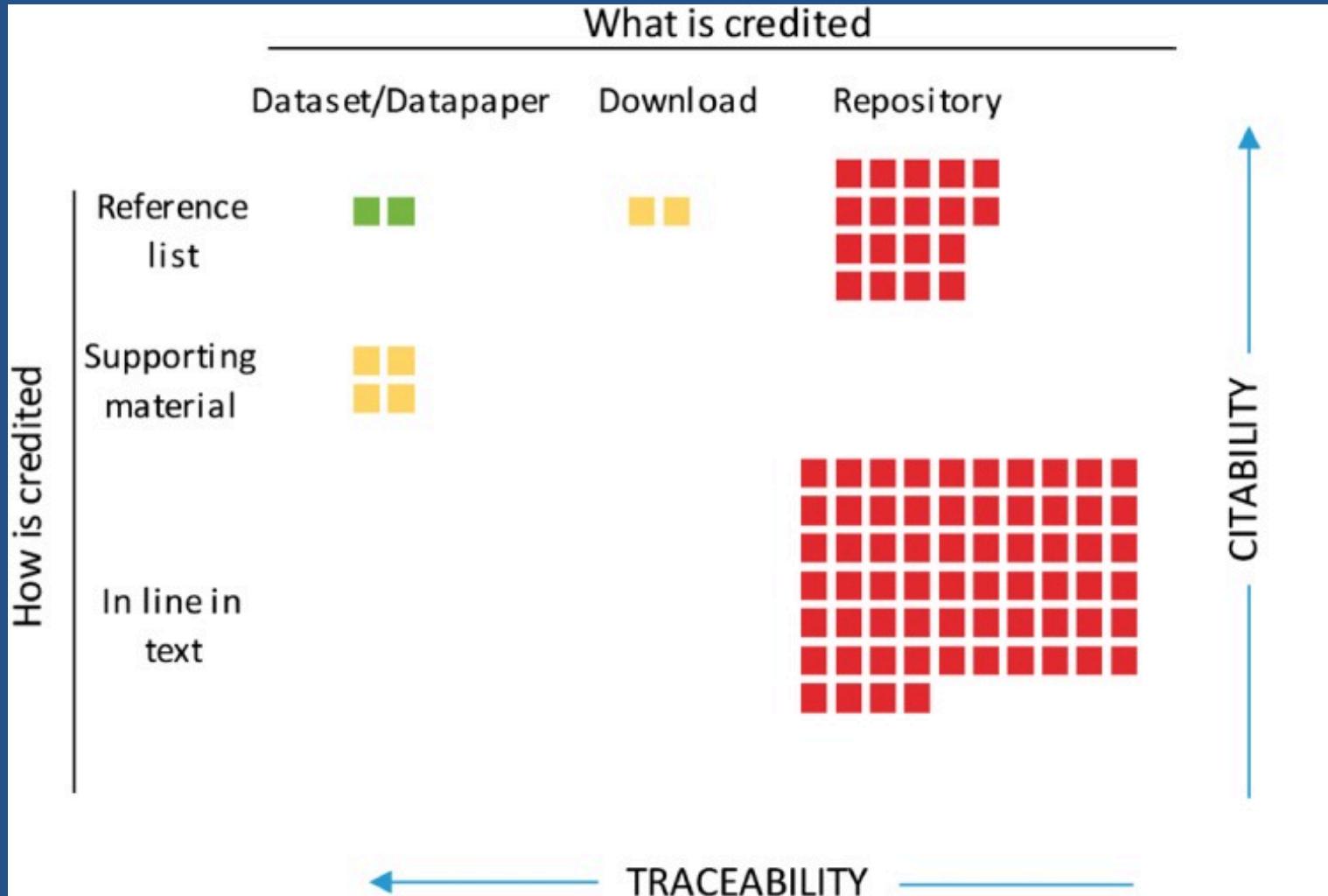
- Crédito en una publicación académica
- Citación de los datos
- Reconocimiento y construcción de carrera
- Posibilidad de rastrear el uso
- Es una ventana abierta para la colaboración
- Proceso de revisión de los datos
- Más fáciles de descubrir

# Beneficios de un Data Paper

- Aumento de la reutilización de los datos
- Aumento de la citación del recurso original

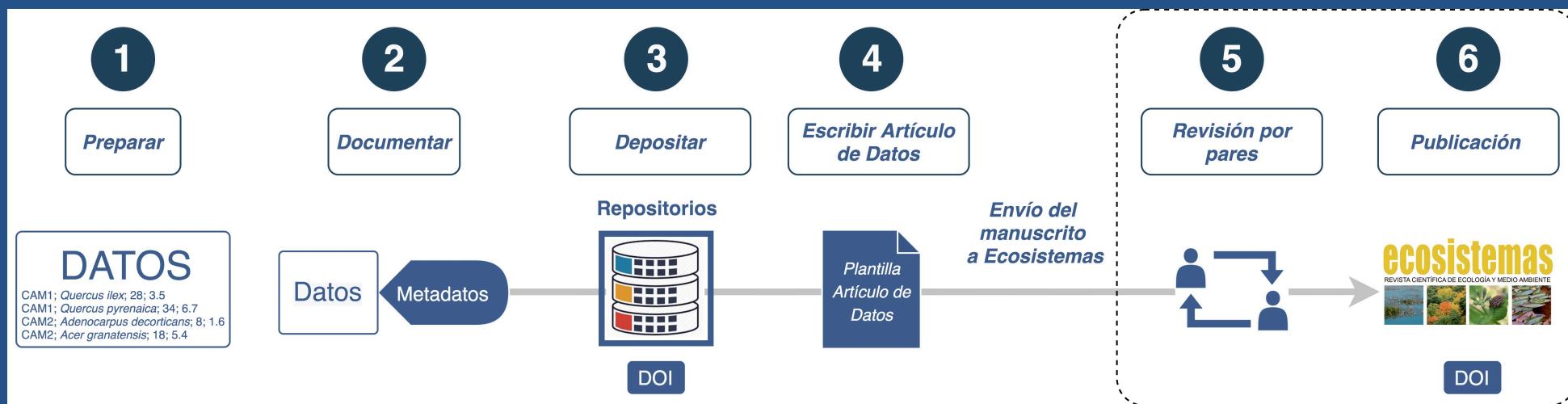


# The tragedy of the biodiversity data commons



# Beneficios de un Data Paper

- La revisión del conjunto de datos permite la detección de errores, aumentando la calidad del conjunto de datos



# pasos para generar Data Papers

# **pasos para generar Data Papers**

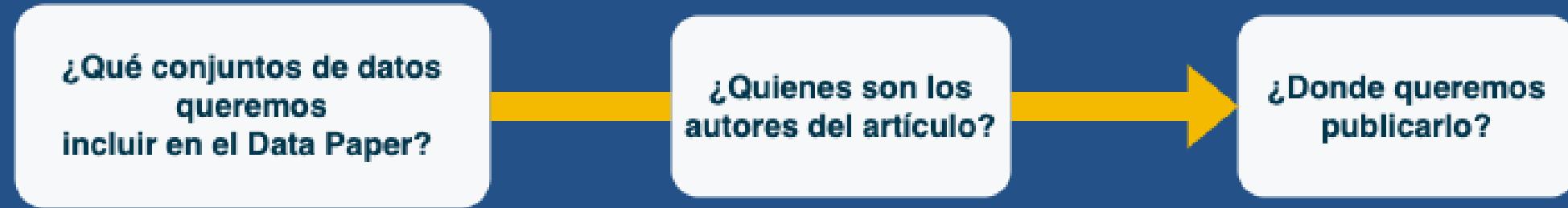
¿Qué conjuntos de datos queremos incluir en el Data Paper?

¿Quienes son los autores del artículo?

¿Donde queremos publicarlo?



# pasos para generar Data Papers



¿Qué tipos de datos incluir?

- En nuestro caso datos de biodiversidad
- Datos ambientales asociados a datos de biodiversidad

# pasos para generar Data Papers

**Data Papers**

*Ecology*, 101(9), 2020, e03091  
© 2020 The Authors. *Ecology* © 2020 The Ecological Society of America

**FloraSNevada: a trait database of the vascular flora of Sierra Nevada, southeast Spain**

JUAN LORITE <sup>1,2,5</sup> ANDREA ROS-CANDEIRA  <sup>2</sup>, DOMINGO ALCARAZ-SEGURA  <sup>1,2,3</sup> AND CARLOS SALAZAR-MENDÍAS  <sup>4</sup>

<sup>1</sup>*Department of Botany, University of Granada, Granada 18071 Spain*  
<sup>2</sup>*Interuniversity Institute for Earth System Research, University of Granada, Granada 18006 Spain*  
<sup>3</sup>*Andalusian Center for the Assessment and Monitoring of Global Change (CAESCG), University of Almería, Almería 04400 Spain*  
<sup>4</sup>*Department of Animal Biology, Plant Biology and Ecology, University of Jaén, Jaén 23071 Spain*

*Citation:* Lorite, J., A. Ros-Candeira, D. Alcaraz-Segura, and C. Salazar-Mendías. 2020. FloraSNevada: a trait database of the vascular flora of Sierra Nevada, southeast Spain. *Ecology* 101(9):e03091. 10.1002/ecy.3091

*Abstract.* Providing a complete data set with species and trait information for a given area is essential for assessing plant conservation, management, and ecological restoration, for both local and global applications. Also, these data sets provide additional information for surveys or data collections, establishing the starting point for more detailed studies on plant evolution, vegetation dynamics, and vegetation responses to disturbance and management. This data base covers Sierra Nevada mountains (southeastern Spain), a recognized plant biodiversity hotspot within the Mediterranean context. According to previous available data (before this augmented compilation), these mountains host 7% of the 24,000 Mediterranean vascular plants, despite covering just 0.01% of its area. Another characteristic of the Sierra Nevada is the great singularity of its flora, with 95 taxa being endemic to the high-mountain area of Sierra Nevada and surroundings. From these endemic taxa, 70% are endangered by different threats, global warming being a leading cause. We seek to provide a complete and updated database of the flora of the Sierra Nevada mountains (southeast Spain). The goal of the present data set is to compile the names of all the vascular plant taxa inhabiting Sierra Nevada, together with relevant features including taxonomical, morphological–ecological traits, distribution,

# pasos para generar Data Papers

PhytoKeys 46: 89–107 (2015)  
doi: 10.3897/phytokeys.46.9116  
<http://phytokeys.pensoft.net>

DATA PAPER

 PhytoKeys  
A peer-reviewed open-access journal  
Launched to accelerate biodiversity research

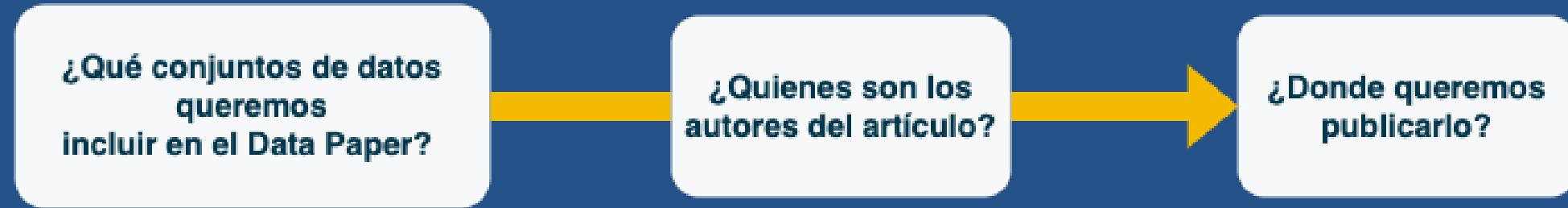
## Dataset of Phenology of Mediterranean high-mountain meadows flora (Sierra Nevada, Spain)

Antonio Jesús Pérez-Luque<sup>1,2</sup>, Cristina Patricia Sánchez-Rojas<sup>3</sup>, Regino Zamora<sup>1,2</sup>, Ramón Pérez-Pérez<sup>1,2</sup>, Francisco Javier Bonet<sup>1,2</sup>

**1** Laboratorio de Ecología (*iEcolab*), Instituto Interuniversitario de Investigación del Sistema Tierra en Andalucía (CEAMA), Universidad de Granada, Avenida del Mediterráneo s/n, 18006, Granada, Spain **2** Grupo de Ecología Terrestre, Departamento de Ecología, Universidad de Granada, Facultad de Ciencias, Campus de Fuentenueva s/n, 18071, Granada, Spain **3** Agencia de Medio Ambiente y Agua de Andalucía. Consejería de Medio Ambiente y Ordenación del Territorio. Junta de Andalucía, C/ Joaquina Egüaras, 10, 18003, Granada, Spain

Corresponding authors: Antonio Jesús Pérez-Luque ([ajperez@ugr.es](mailto:ajperez@ugr.es));  
Cristina Patricia Sánchez-Rojas ([cpsanchez@agenciamedioambienteaguadigital.es](mailto:cpsanchez@agenciamedioambienteaguadigital.es))

# pasos para generar Data Papers



¿Cuantos conjuntos de datos incluir en el DP?

- Conjugar intereses autor / publicador / institución / revista
- 1 dataset vs. varios datasets

## Número de especímenes en la colección

El número estimado de especímenes in the Vertebrados del Museo de Zoología de la Universidad de Navarra collection es 1.700.000.

De estos 100.363 están en bases de datos. Esto representa 5.9 % de la colección.

Haga clic en la pestaña Registros y Estadísticas para acceder a los registros de las base de datos que están disponibles a través del Atlas.

## Sub-colecciones

The Vertebrados del Museo de Zoología de la Universidad de Navarra collection contiene las siguientes colecciones:

- Fishes in MZNA-VERT: freshwater fishes of Hidalgo state (Mexico)
- Mammals in MZNA-VERT: project Human impacts in rivers of Navarra
- Fishes in MZNA-VERT: cyprinid and salmonid communities in the rivers Erro and Urederra (Spain). PhD project, Cristina García-Fresca
- Fishes in MZNA-VERT: anatomy of cyprinids of Spain. PhD project, Rafael Miranda
- Fishes in MZNA-VERT: distribution of freshwater blenny in the Segre and Susia rivers (Spain)
- Fishes in MZNA-VERT: freshwater communities in the Larraun river (Spain). PhD project, Javier Oscoz & Master project, A. Cos.
- Mammals in MZNA-VERT: biology of *Arvicola sapidus* in Navarra. PhD project, Juan Manuel Garde
- Mammals in MZNA-VERT: project CAS
- Fishes in MZNA-VERT: monitoring program in the Suspiro stream (Spain), Mammals in MZNA-VERT: project Biodiversity of mammals in Pamplona] - [ ]
- [Mammals in MZNA-VERT: skull and teeth development in *Rattus* and *Mus*, Fishes in MZNA-VERT: ecological assessment of the Aragon river in Sangüesa (Spain)] - [ ]
- Fishes in MZNA-VERT: baseline freshwater sampling campaigns
- Fishes in MZNA-VERT: ecological assessment of the Guadlope river in Aliaga (Spain)
- Fishes in MZNA-VERT: interactions between signal crayfish and fish communities. PhD project, Iván Vedia
- Fishes in MZNA-VERT: freshwater populations in the Erro river (Spain). PhD Project, Pedro Leunda.
- Mammals in MZNA-VERT: pellet sampling
- Fishes in MZNA-VERT: populations affected by the Itoiz dam in the Irati river (Spain)
- Mammals in MZNA-VERT: project Loza
- Fishes in MZNA-VERT: foraging ecology of the kingfisher. PhD project, Antonio Vilches

ZooKeys 403: 67–109 (2014)  
doi: 10.3897/zookeys.403.7149  
[www.zookeys.org](http://www.zookeys.org)

DATA PAPER



## Hidalgo Fishes: Dataset on freshwater fishes of Hidalgo state (Mexico) in the MZNA fish collection of the University of Navarra (Spain)

David Galicia<sup>1</sup>, Griselda Pulido-Flores<sup>2</sup>, Rafael Miranda<sup>1</sup>, Scott Monks<sup>2</sup>, Ana Amezcua-Martínez<sup>1</sup>, María Imas-Lecumberri<sup>1</sup>, Angel Chaves-Illana<sup>1</sup>, Arturo H. Ariño<sup>1</sup>

<sup>1</sup> University of Navarra, Irúnlarrea 1, 31008, Pamplona, Spain <sup>2</sup> University of the Hidalgo State, Centro de Investigaciones Biológicas, Ciudad del Conocimiento, 42184, Pachuca, Mexico

Corresponding author: David Galicia (dgalicia@unav.es)

Academic editor: V. Chatzopan | Received 27 January 2014 | Accepted 31 March 2014 | Published 17 April 2014

Citation: Galicia D, Pulido-Flores G, Miranda R, Monks S, Amezcua-Martínez A, Imas-Lecumberri M, Chaves-Illana A, Ariño AH (2014) Hidalgo Fishes: Dataset on freshwater fishes of Hidalgo state (Mexico) in the MZNA fish collection of the University of Navarra (Spain). ZooKeys 403: 97–109. doi: 10.3897/zookeys.403.7149 GBIF key: <http://gbif.org/browse/agent?uid=28c1c18b-64d8-4691-acdb-73e56532928>

Resource Citation: University of Navarra (2014) Hidalgo Fishes: Dataset on freshwater fishes of Hidalgo state (Mexico) in the MZNA fish collection of the University of Navarra (Spain). 7403 data records. Contributed by Galicia D, Miranda R, Monks S, Pulido-Flores G, Ariño AH, Amezcua A, Imas M, Chaves A, Escala MC, Alemán-García B, Escoria-Ignacio R, Vilches A, Bautista-Hernández CE, Leunda PM, Gaspar S and A López-Morales. Online at [http://www.gbif.es:8080/ipt/resource.do?r=pemx\\_mzna](http://www.gbif.es:8080/ipt/resource.do?r=pemx_mzna). GBIF key: <http://gbif.org/browse/agent?uid=28c1c18b-64d8-4691-acdb-73e56532928> Data Paper ID: doi: 10.3897/zookeys.403.7149

## Abstract

The state of Hidalgo (Mexico) is an important region from the point of view of biodiversity. However, there exists a significant gap in accessible knowledge about species diversity and distribution, especially regarding to freshwater ecosystems. This dataset comprises the sampling records of two projects developed in Hidalgo between 2007 and 2009 about the freshwater fish communities of Tecocomulco lake and rivers belonging to the Metztitlán Canyon Biosphere Reserve. It contains the taxonomic identity (species level) and basic biometric data (total length and weight) as well as date of collection and coordinates of more than 9000 specimens. This dataset is the primary result of the first and unrepeatable exhaustive freshwater fish's survey of Metztitlán Canyon Biosphere Reserve and Tecocomulco lake. It incorporates seven more

## Número de especímenes en la colección

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- Mammals in MZNA-VERT: project Loza
- Fishes in MZNA-VERT: foraging ecology of the kingfisher. PhD project, Antonio Vilches

www.nature.com/scientificdata

# SCIENTIFIC DATA

OPEN

SUBJECT CATEGORIES

- » Ichthyology
- » Biodiversity

Received: 11 May 2016

Accepted: 31 August 2016

Published: 11 October 2016

## Data Descriptor: Iberian fish records in the vertebrate collection of the Museum of Zoology of the University of Navarra

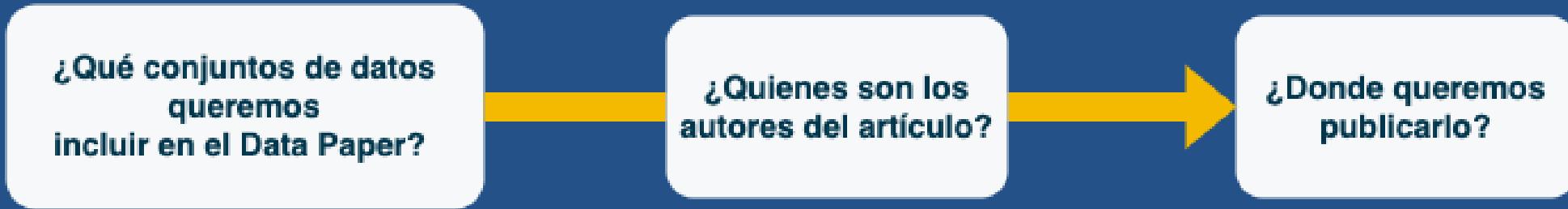
Amaia A. Rodeles<sup>1</sup>, David Galicia<sup>1</sup> & Rafael Miranda<sup>1</sup>

The study of freshwater fish species biodiversity and community composition is essential for understanding river systems, the effects of human activities on rivers, and the changes these animals face. Conducting this type of research requires quantitative information on fish abundance, ideally with long-term series and fish body measurements. This Data Descriptor presents a collection of 12 datasets containing a total of 146,342 occurrence records of 41 freshwater fish species sampled in 233 localities of various Iberian river basins. The datasets also contain 148,749 measurement records (length and weight) for these fish. Data were collected in different sampling campaigns (from 1992 to 2015). Eleven datasets represent large projects conducted over several years, and another combines small sampling campaigns. The Iberian Peninsula contains high fish biodiversity, with numerous endemic species threatened by various menaces, such as water extraction and invasive species. These data may support the development of large biodiversity conservation studies.

Design Type	observation design
Measurement Type(s)	specimens collected in one encounter
Technology Type(s)	observational method
Factor Type(s)	
Sample Characteristic(s)	Teleostei
	iberian Peninsula

<sup>1</sup>University of Navarra, School of Sciences, Department of Environmental Biology, Irurzunlarrea 1, 31080 Pamplona, Spain. Correspondence and requests for materials should be addressed to A.A.R. (email: aangulo@alumni.unav.es).

# pasos para generar Data Papers



## ¿Autores?

- Definir responsabilidades
- Los creadores del recurso no tienen porque ser los autores del artículo
- Crédito
- Responsabilidad

# Dataset of MIGRAME Project (Global Change, Altitudinal Range Shift and Colonization of Degraded Habitats in Mediterranean Mountains)

Antonio Jesús Pérez-Luque<sup>1,2</sup>, Regino Zamora<sup>1,2</sup>, Francisco Javier Bonet<sup>1,2</sup>, Ramón Pérez-Pérez<sup>1,2</sup>

**1** *Laboratorio de Ecología (iEcolab), Instituto Interuniversitario de Investigación del Sistema Tierra en Andalucía (CEAMA), Universidad de Granada, Avenida del Mediterráneo s/n, 18006, Granada, Spain* **2** *Grupo de Ecología Terrestre, Departamento de Ecología, Universidad de Granada, Facultad de Ciencias, Campus de Fuentenueva s/n, 18071, Granada, Spain*

Corresponding author: Antonio Jesús Pérez-Luque (ajperez@ugr.es)

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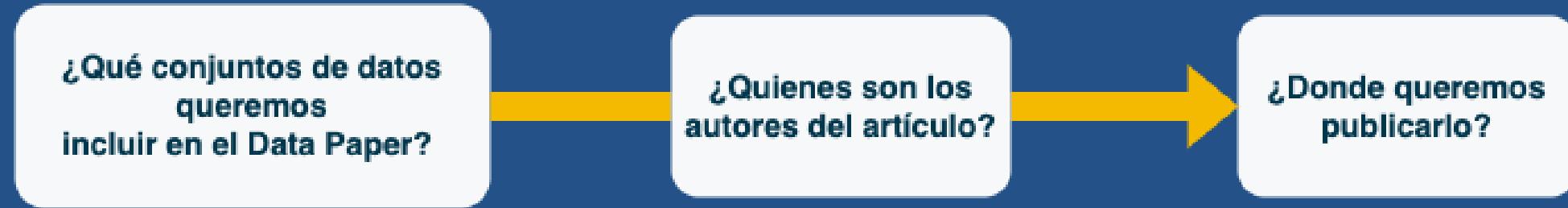
Academic editor: L. Penev | Received 22 June 2015 | Accepted 18 September 2015 | Published 1 October 2015

**Citation:** Pérez-Luque AJ, Zamora R, Bonet FJ, Pérez-Pérez R (2015) Dataset of MIGRAME Project (Global Change, Altitudinal Range Shift and Colonization of Degraded Habitats in Mediterranean Mountains). PhytoKeys 56: 61–81. doi: 10.3897/phytokeys.56.5482

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**Resource citation:** iEcolab, University of Granada-Andalusian Institute for Earth System Research (2015) Dataset of Global Change, altitudinal range shift and colonization of degraded habitats in Mediterranean mountains (MIGRAME). 3839 data records. Contributed by University of Granada, OBSNEV, Pérez-Luque AJ, Navarro-González I, Zamora R, Benito BM, Perez-Pérez R, Bonet FJ, Matías L, Ruiz-Puche R, Suzart F, Moreno-Llorca R, Rodríguez-Infante J. Online at <http://www.gbif.es/ipt/resource.do?r=migrame> and <http://obsnev.es/noticia.html?id=7841>, version 1.0 (last updated on 2015-05-13). Resource ID: GBIF Key: <http://www.gbif.org/dataset/6c6a9003-ecea-4f3a-9f2f-414107da65c1>

# pasos para generar Data Papers



¿donde publicar?

- Buscar revistas donde se puedan publicar Artículos de Datos
- Conjugar intereses Autores / Editores
- Disponibilidad de presupuesto
- Factor de Impacto

¿donde publicar Data  
Papers?

## Listados con revistas de Datos:

- GBIF <https://www.gbif.org/es/data-papers>
- Foster Open Science

Revista	Editorial	Acceso abierto	APC estimado	Factor de impacto (2016)
Arxius de Miscel·lània Zoològica	Nat Hist Museum of Barcelona	Yes	0€	-
Biodiversity Data Journal	Pensoft	Yes	300€	-
BioInvasions Records	REABIC Journals	Yes	600€	0.835
BioRisk	Pensoft	Yes	300€	-
Biota Colombiana	Humboldt Institute, Colombia	Yes	0€	-
BMC Ecology	Biomed Central	Yes	1,745€	2.896
BMC Plant Biology	Biomed Central	Yes	1,745€	3.964
Botanical Studies	SpringerOpen	Yes	600€	1.452
Check List	Biotaxa	Yes	27€	-

# ¿donde publicar Data Papers?

## The role of non-English-language science in informing national biodiversity assessments

Tatsuya Amano , Violeta Berdejo-Espinola, Munemitsu Akasaka, Milton A. U. de Andrade Junior, Ndayizeye Blaise, Julia Checco, F. Gözde Çilingir, Geoffroy Citegetse, Marina Corella Tor, Szymon M. Drobniaik, Sylvaine Giakoumi, Marina Golivets, Mihaela C. Ion, Javiera P. Jara-Díaz, Ryosuke Katayose, Felicia P. S. Lasmana, Hsien-Yung Lin, Erick Lopez, Peter Mikula, Lucia Morales-Barquero, Anne-Christine Mupepele, Juan P. Narváez-Gómez, Thi Hieu Nguyen, Sá Nogueira Lisboa, ... Veronica Zamora-Gutierrez 

*Nature Sustainability* (2023) | [Cite this article](#)

756 Accesses | 304 Altmetric | [Metrics](#)

- 65% de las fuentes citadas no eran en lengua inglesa

Amano et al. 2023

# Biota Colombiana

<http://revistas.humboldt.org.co/index.php/biota>



DOI: 10.21068/c2021.v22n01a13

Tovar-García & Acevedo-Charry

## Artículo de datos

### Conjunto de datos de monitoreo acústico pasivo en la Reserva Natural Los Yátaros, Gachantivá, Boyacá, Colombia

Dataset of passive acoustic monitoring at the Nature Reserve Los Yátaros, Gachantivá, Boyacá, Colombia

Juan Diego Tovar García  , Orlando Acevedo-Charry  

Resumen

# Ecosistemas

**aeet**

ASOCIACIÓN ESPAÑOLA  
DE ECOLOGÍA TERRESTRE

Ecosistemas 29(3):2118 [Septiembre-Diciembre 2020]  
<https://doi.org/10.7818/ECOS.2118>

EDITORIAL

**ecosistemas**

REVISTA CIENTÍFICA DE ECOLOGÍA Y MEDIO AMBIENTE

ISSN 1697-2473

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disponible en [www.revistaecosistemas.net](http://www.revistaecosistemas.net)

## ***Ecosistemas apuesta por la publicación de artículos de datos (Data Papers)***

C. Puerta-Piñero<sup>1,2,\*</sup>, A. J. Pérez-Luque<sup>3,4</sup>, S. Rodríguez- Echeverría<sup>5</sup>.

- Las revistas que ya publican artículos de datos en castellano generalmente tienen un ámbito geográfico o una tipología de datos restringidos en comparación con el alcance geográfico y tipo de audiencia de Ecosistemas
- 29 envíos (16 rechazados; 3 en revisión)

# Ecosistemas

<https://www.revistaecosistemas.net/>

**aeet** | Ecosistemas 30(3):2282 [Septiembre-Diciembre 2021]  
<https://doi.org/10.7818/ECOS.2282>

ASOCIACIÓN ESPAÑOLA  
DE ECOLOGÍA TERRESTRE | ARTÍCULO DE DATOS (DATAPAPER)

**ecosistemas**  
REVISTA CIENTÍFICA DE ECOLOGÍA Y MEDIO AMBIENTE  
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## Base de datos de las interacciones planta-Buprestidae (Coleoptera) en México

Cisteil X. Pérez-Hernández<sup>1,\*</sup> , Diana R. Hernández-Robles<sup>2</sup> , Angélica María Corona-López<sup>3</sup> , Víctor Hugo Toledo-Hernández<sup>3</sup>  , Ek del-Val<sup>1</sup> 

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## Editorial Pensoft



A peer-reviewed open-access journal

# Biodiversity Data Journal

Making your data count!

ISSN 1314-2828 (online)



A peer-reviewed open-access journal

# Nature Conservation

Launched to accelerate biodiversity conservation



A peer-reviewed open-access journal

# ZooKeys

Launched to accelerate biodiversity research



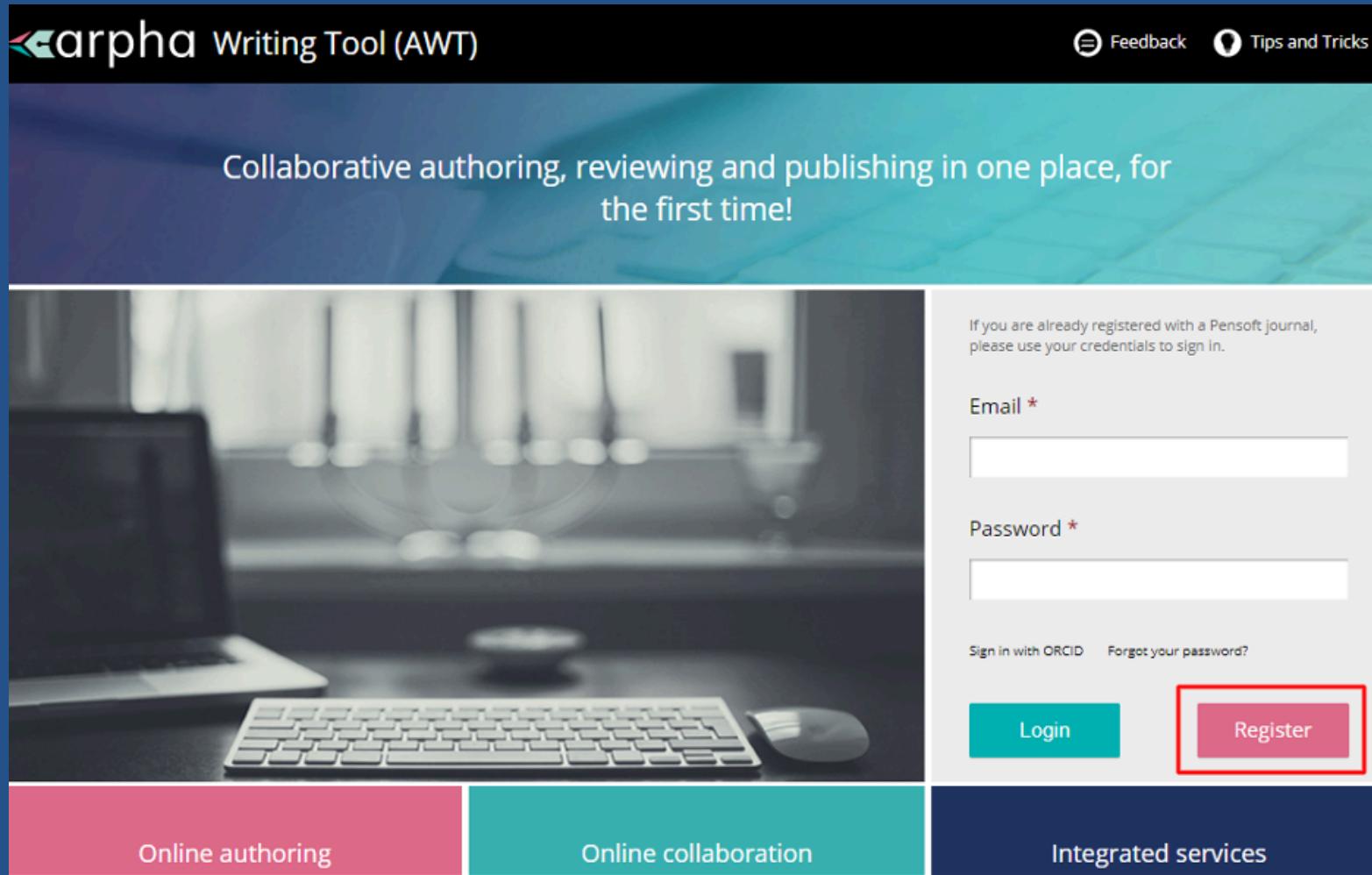
A peer-reviewed open-access journal

# PhytoKeys

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# Editorial Pensoft

Arpha Writing Tool <https://arpha.pensoft.net/>



# Muchas Gracias

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