

Strengthening Zimbabwe's GBIF node through collaboration with GBIF Spain

CESP PROJECT. 24-27 SEPTEMBER 2019. MADRID SPAIN



REAL JARDÍN
BOTÁNICO

Gbif.es

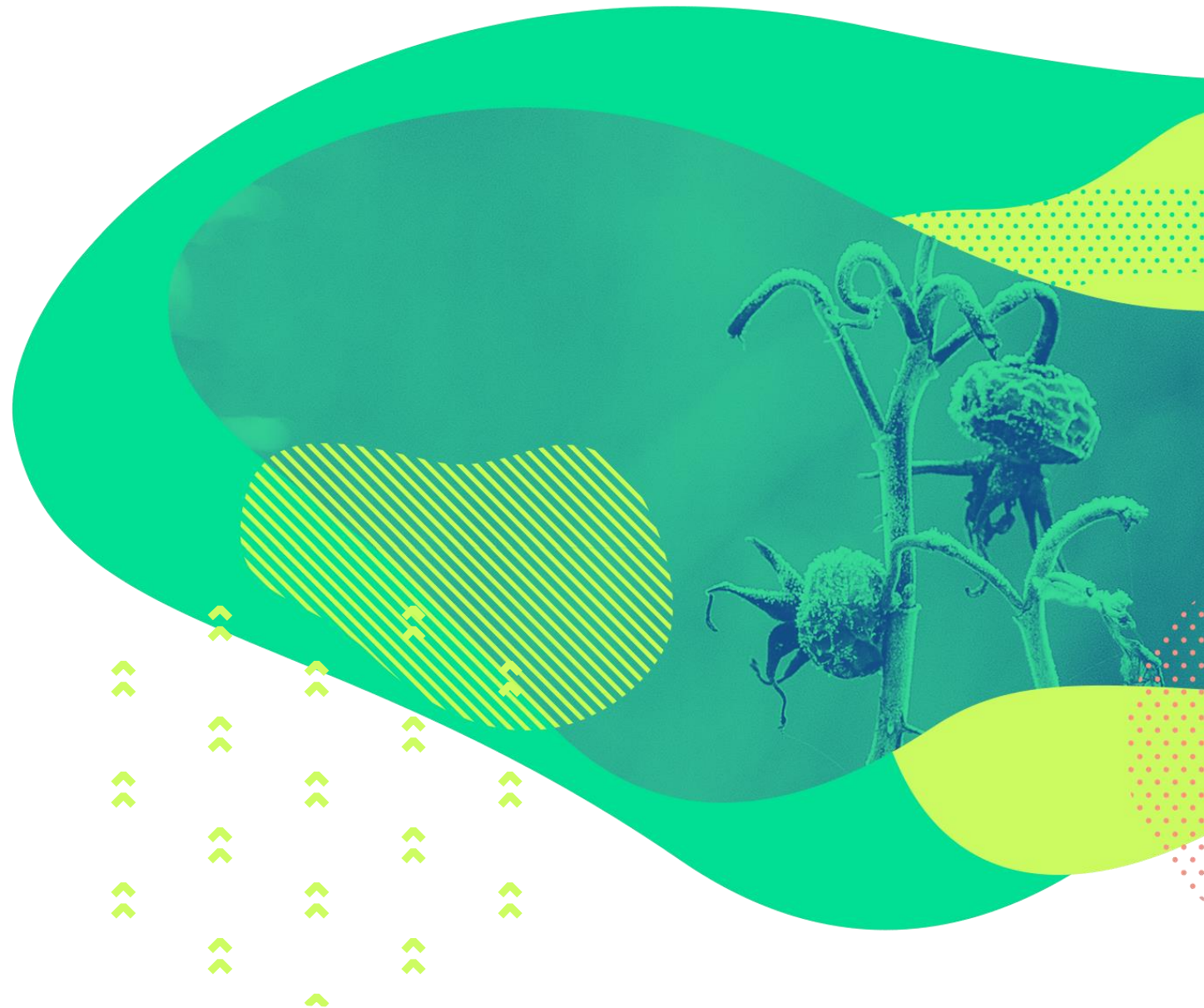


The Living Atlases Community and the Atlas of Living Spain

Strengthening Zimbabwe's GBIF node through
collaboration with GBIF Spain

Cristina Villaverde
villaverde@gbif.es

Gbif.es

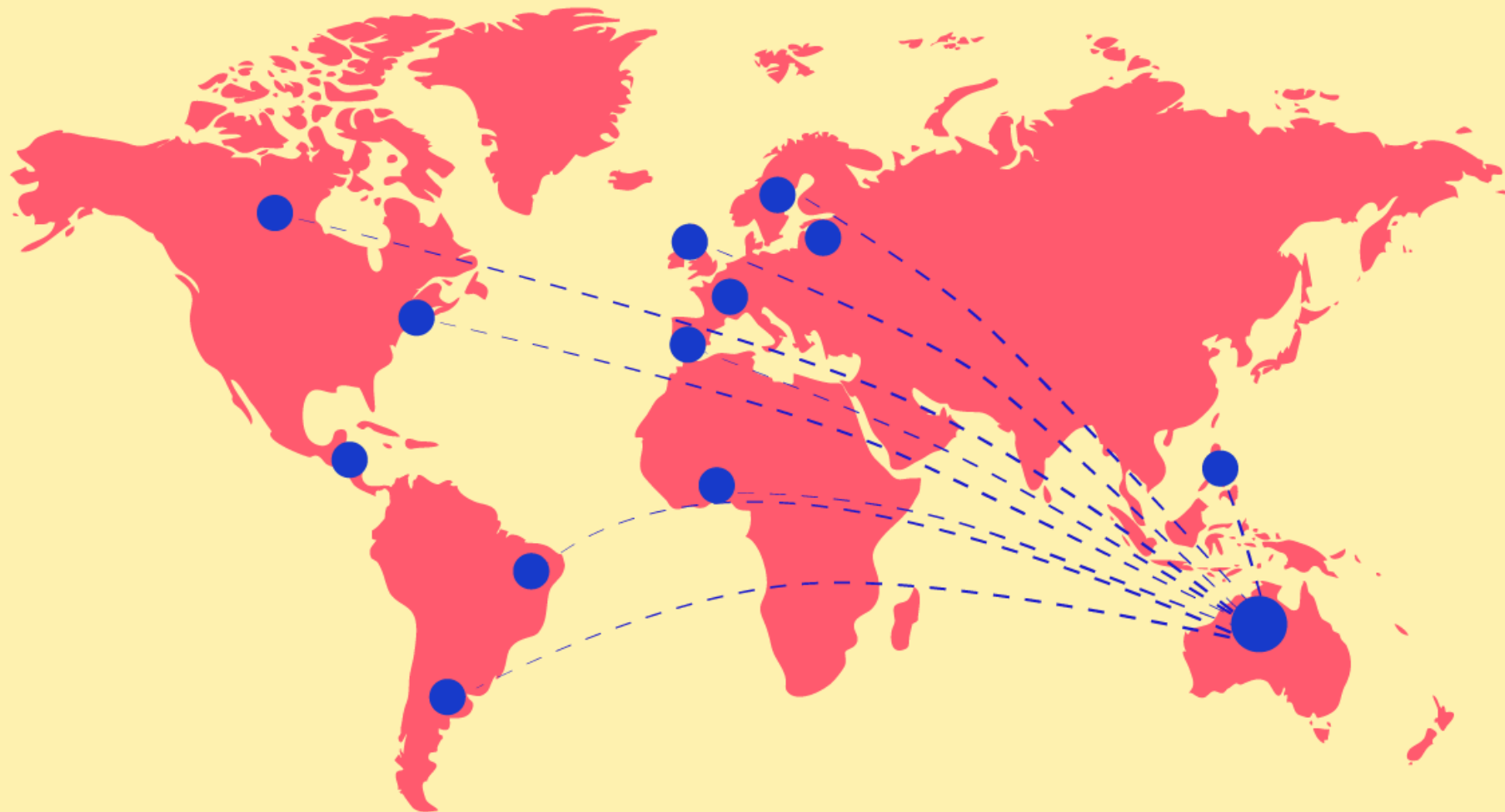


**Free and
open source!**

A Living Atlas is an informatics infrastructure that aggregates biodiversity data from multiple sources and makes it freely available and usable online.



National Biodiversity Data Portal



Living Atlases around the world

Living Atlases in production			
1	Atlas of Living Australia	10	GBIF France
2	Atlas of Living Costa Rica	11	GBIF Portugal
3	BioAtlas Sweden	12	GBIF Spain
4	Canadensys	13	GBIF Togo
5	Elurikkus – GBIF Estonia	14	NBN Atlas
6	GBIF Argentina	15	NBN Atlas Isle of Men
7	GBIF Benin	16	NBN Atlas Scotland
8	GBIF Andorra	17	NBN Atlas Wales
9	GBIF Brazil / SiBBr	18	Living Atlas of The Caribbean

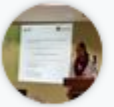
Living Atlases in progress	
1	GBIF Luxembourg
2	Living Norway
3	Biodiversity-Hub (Austria)
4	Biodiversity Atlas of Living Tanzania
5	Field Museum (US)
6	Vermont Center for Ecostudies (US)
7	Russia
8	GBIF Canada
9	GBIF Chile
10	Institute of Botany, Chinese Academy of Sciences
11	Biodiversity Research Center (Taiwan)
12	Philippines Atlas of Biodiversity
13	Sistema Nacional de Información sobre Biodiversidad (Guatemala)

Many CESP projects around the Living Atlases

<https://www.gbif.org/programme/82219/capacity-enhancement-support-programme#projects>



Francophone mentoring and translation of the open-source ALA platform



International Living Atlases workshop



International Living Atlases workshop: how to improve data use with Atlas of Living Australia modules



Internationalization of the ALA node portal



Workshops on usage of the Atlas of Living Australia (ALA) and GBIF.org data portals



Mentoring between GBIF Benin and GBIF France



Mentoring of GBIF Togo



Living Atlases

An open community created around the Atlas of Living Australia platform.

[View on GitHub](#)

[Full Documentation](#)

[Created by: Atlas of Living Australia](#)

Red Kangaroo, © John Sullivan, some rights reserved (CC BY-NC) via iNaturalist.org

[Follow @atlaslivingaustr](#)

[Follow @LivingAtlases](#)

[Tweet](#)

What we have been doing

Documentation for end users of the Atlas



Video tutorial about how to search, refine and download data.



Video tutorial about how to use the spatial components of the Atlas (regions and spatial module)



Online exercises to help end-users to know how to use these data portals

Different
languages

Video tutorial about how to search, refine and download data in a LA



Video tutorial about how to use regions/spatial module in an Atlas





Summary of planned expenditure

In addition to salary and operating costs, including support for GBIF Governance mechanisms, funding is reserved in the Work Programme 2019 for the following activities:

- **Tools to Manage Documentation on Data Publishing, etc.: €30,000** – See: *Activity 1b - Strengthen Skills.*
- **Global Nodes Meeting: €60,000** – See: *Activity 1c - Equip Nodes.*
- **Nodes Training Event: €20,000** – See: *Activity 1c - Equip Nodes.*
- **Support for Living Atlas Activity: €40,000** – See: *Activity 1c - Equip Nodes.*
- **Arabic Translations for GBIF.org: €8,000** – See: *Activity 1e - Expand National Participation.*
- **GBIC2 Follow-up to Develop Global Alliance: €50,000** – See: *Activity 1f - Plan Implementation.*
- **Capacity Enhancement Support Programme: €80,000** – See: *Activity 1g - Coordinate Resources.*
- **Revision of Data Standards and Modernization of IPT: €50,000** – See: *Activity 2a - Modernize data standards.*

Activity 1c - Equip Participant nodes

Support further development of the **Living Atlases community** including coherent branding, establish ongoing workshop and documentation programme. **€40,000** has been allocated for this purpose. This recognizes that **GBIF needs to provide stable support for this community**, which is increasingly important to many participants. In 2019 and in future years, Living Atlas work should be separately funded rather than subsumed under the CESP call.

A botanical illustration of a flower and its leaves, rendered in a monochromatic blue color scheme. The flower is the central focus, with several large, pointed petals and a prominent, textured center. To the left, there is a smaller, more compact flower head. To the right, there are two large, serrated leaves. The background is a solid, light blue color.

Living Atlases Coordinators

Technical coordinator

Vicente Ruiz (Atlas of Living Spain)



TECHNICAL SUPPORT

Act as the primary technical point of contact; support developers of the community.



DOCUMENTATION

Assess the existing technical documentation and coordinate activities to improve accuracy and accessibility of content



+ DOCUMENTATION

Ensure documentation for the installation, customisation and ensuring robust day-to-day operation



SHARED ROAD MAP

Lead the development of a shared road map



Administrative coordinator

Marie Elise Lecoq (VertNet)



COMMUNICATION

Establish and oversee communication channels for the community including mailing list, community website, and social networks



GOVERNANCE

Explore and document options for governance models for the community



DOCUMENTATION AND TRAINING

Evaluate existing documentation and training needs of the parties and lead development of necessary material



OUTREACH

Communication package highlighting the strengths and modularity of the platform and emerging community suitable for potential new adopters





Living Atlases Community of Practice

formed by GBIF countries and organizations that adopted ALA platform to implement the national portal

With support from the GBIF core work programme and members, is developing governance and technical support

Communciation of LA Community

<https://atlaslivingaustralia.slack.com/>

The screenshot shows a Slack interface with a dark purple sidebar on the left and a main content area on the right. The sidebar contains the following sections:

- ALA** (with a dropdown arrow and a bell icon):
 - Cristina (GBIF.ES)
 - Hilos de conversaciones
 - Borradores: Vicente J. Ruiz Jurado (G...)
 - Canales: # gbif-node-developers (highlighted)
 - Mensajes directos (with a plus icon):
 - Slackbot
 - Cristina (GBIF.ES) (tú)
 - Dave Martin (ALA)
 - Manash Shah - Sweden
 - Marie Elise Lecoq (Vertr...)
 - santiagomartinezdelariva

The main content area displays the **#gbif-node-developers** channel. At the top, it shows the channel name, a star icon, 66 members, 0 stars, and the description "Development of GBIF nodes using ALA stack". The date "Jueves, 22 de agosto" is centered above the messages.

The messages in the channel are:

- Angelica Leite - Brasil** 22:53: "Hi guys, how delete image by webservice, how config api key, i don'r delete images by frontend module 😞 (editado)" (3 respuestas, Última respuesta hace 1 mes)
- Georg (Austria)** 12:45: "Hi all! Concerning regions our setup using subdomains I found URL `biocache.occurrences.json=ws/occurrences/search.json` this should be `biocache-ws.biodiversityatlas.at/occurrences/search.json` is this correct? I'll add path to local repo" (2 respuestas, Última respuesta hace 28 días)
- Tanja Lumetsberger (Austria)** 09:58: "Hello channel! Got a question about translation in crowdin... e.g. is the German translation or any other translation meant to be used by all portals who want to make it possible to switch to another language or is the translation just for the respective portal itself? I'm asking about the translation of portal specific terms, e.g. "Atlas of Living Australia", "IMCRA 4 region", ALA terms of use", ... I guess it is portal specific, meaning, "Atlas of Living Australia" would be translated to "Biodiversitäts-Atlas Austria" in our case ... but just checking with you. Thanks! 😊" (6 respuestas, Última respuesta hace 26 días)
- Georg (Austria)** 14:52: "Hello there! I just wanted to ask for solution depending the popup infos of the occurrence records in the map - when clicking on spot the info doesn't appear. Can you help please? Here is the link: https://biocache.biodiversityatlas.at/occurrences/search?q=data_resource_uid:dr0#tab_mapView (editado)" (14 respuestas, Última respuesta hace 26 días)
- Georg (Austria)** 15:41: "Hello! I tested some layers with regions tool - after restart of tomcat the labels appeared but the layers and the map ain't loading. Can you please help me to get it configured? Attached the screenshots"

At the bottom of the main content area, there is a text input field with the placeholder "Enviar mensaje a #gbif-node-developers" and icons for attachments, mentions, and emojis.

On the right side of the main content area, there is a "Hilo" (Thread) section for the message from **Georg (Austria)** at 14:52. It shows 14 respuestas. The first response is from **Vicente J. Ruiz Jurado (GBIF.ES)** (hace 27 días): "Can to share with us an screenshot and also, can you see your js console for errors?". The second response is from **Vicente J. Ruiz Jurado (GBIF.ES)** (hace 27 días): "And hello 😊". The third response is from **Georg (Austria)** (hace 27 días): "😊". The fourth response is from **Georg (Austria)** (hace 27 días): "this is the console output" followed by a screenshot of a browser console error. The fifth response is from **Vicente J. Ruiz Jurado (GBIF.ES)** (hace 27 días): "core.bio.at is not the same origin that biocache.bio.at and because of this fails https://developer.mozilla.org/en-US/docs/Web/Security/Same-origin_policy". Below this, there is a link to "MDN Web Docs Same-origin policy" and a small icon of a dog's head.

We will present all this work in the upcoming conference Biodiversity Next

SI49 Living Atlases Community of Practice conference infrastructure symposium Tweet

ORGANISER	Anne-Sophie Archambeau [archambeau@gbif.fr] IRD - UMS PatriNat - GBIF France
CO-ORGANISERS	Name: Cristina Villaverde, Email: cvillaverde@rjb.csic.es, Affiliation: Royal Botanic Garden - CSIC - GBIF Spain, Country: Spain Name: Rui Figueira, Email: ruifigueira@isa.ulisboa.pt, Affiliation: CIBIO/InBio - Centro de Investigação em Biodiversidade e Recursos Genéticos, Universidade do Porto - Instituto Superior de Agronomia, Universidade de Lisboa, Country: Portugal Name: Tim Robertson, Email: trobertson@gbif.org, Affiliation: GBIF Name: Andrea Ferreira Portela Nunes, Email: aportela@mctic.gov.br, Affiliation: Secretariat of Research and Development Policies and Programs Ministry of Science, Technology, innovations and communications, Country: Brazil Name: David Martin, Email: David.Martin@csiro.au, Affiliation: CSIRO - Atlas of Living Australia, Country: Australia Name: Anders Telenius, Email: Anders.Telenius@nrm.se, Affiliation: GBIF Sweden - Swedish Museum of Natural History, Country: Sweden Name: Carole Sinou, Email: canadensys.network@gmail.com, Affiliation: Canadensys, Country: Canada Name: Marie-Elise Lecoq, Email: marieelise.lecoq@gmail.com, Affiliation: VertNet, Country: USA
ABSTRACT	<p>As data publishers share more and more data to GBIF, a national need for data portals has increased around the informatics and biodiversity network. In this context, the Australian GBIF node (Atlas of Living Australia) and INBio in Costa Rica made the first partnership in 2013 to create a national data portal based on the ALA tools (https://www.ala.org.au/). This was the start of the international and technical community that grows around this platform.</p> <p>After 5 years, the community put in production 14 data portals (several more are under development), organized several technical workshops, presented the community through symposia or single presentations in several international conferences (GEO BON, TDWG, GBIF Governing Board, etc.), and launched its website (https://living-atlases.gbif.org). During the GBIF Governing Board 2018, a discussion started to work on the development of a Living Atlas Community of Practice (CoP).</p> <p>The main goals of this CoP, among others, are to better align software codebases in use across the GBIF</p>

<https://biodiversitynext.org/list-of-symposia-and-workshops/>

Global infrastructure
by data. Together.

September 2019
conference
September 2019
science event

Netherlands

A detailed botanical illustration of a flower and its leaves, rendered in a monochromatic blue tone. The flower is the central focus, with its petals and stamens clearly visible. Several long, narrow leaves are arranged around the flower, some showing serrated edges. The background is a solid, lighter blue, creating a subtle gradient effect.

National Biodiversity Data Portal

Atlas of Living Spain

<https://datos.gbif.es/>

National Biodiversity Data Portal

Search the data portal

Advanced
Search

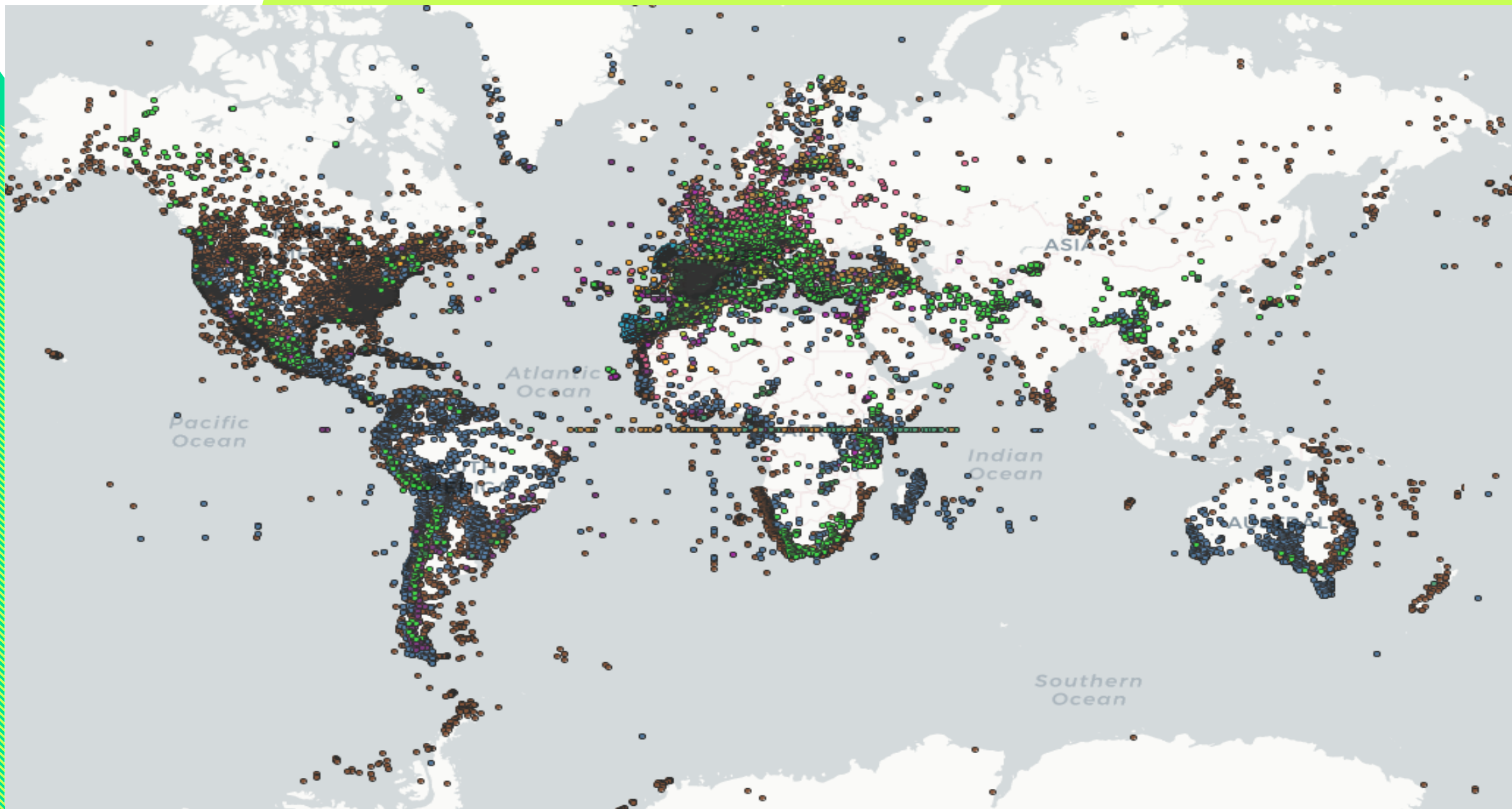


27.726.489
occurrences

309
datasets

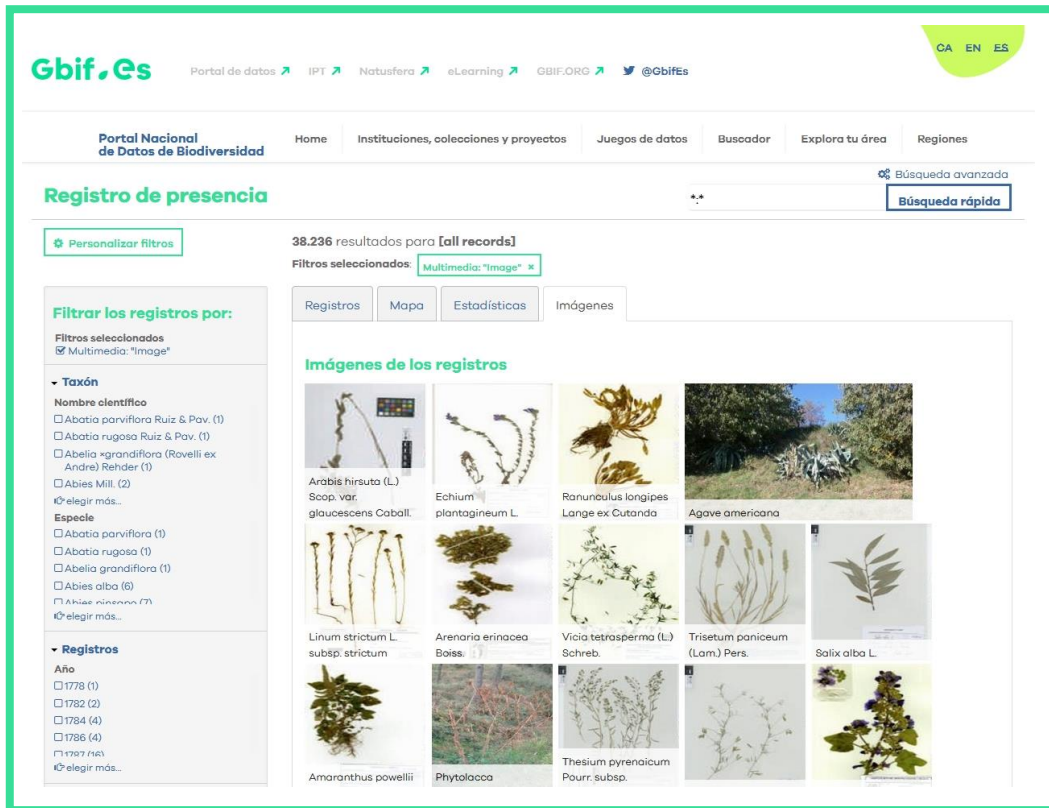
102
institutions

151.103
species



Atlas of Living Spain

- Based on ALA (Atlas of Living Australia)
- ES, CAT, EN
- Infrastructure is hosted in the CSIC-IFCA datacenter
- Data from Spanish providers
- Search, refine, visualize data and images and download data
- Adapted to national needs
- + other components



<https://imagenes.gbif.es/>

Gbif.es

Infraestructura informática de GBIF.ES

versión: 15-Enero-2019

datos.gbif.es

Virtual Machine: gbif_homedatos
Ubuntu 14.04
4 CPUs - 7.6GB RAM - 22G Storage

Apache as Proxy

regiones.gbif.es

VM: gbif-regionesrv
Ubuntu 14.04
2 CPUs - 3.8GB RAM - 21G Storage

apache2 tomcat

servicio de regiones &
biocache-hub &
biocache-clusterdb

imagenes.gbif.es

VM: gbif18-images
Ubuntu 16.04
4 CPUs - 8GB RAM - 350G Storage

apache2 tomcat postgres

servicio de imágenes

demo.gbif.es

VM: gbif-demo
Ubuntu 16.04
8 CPUs - 13GB RAM - 630G Storage

apache2 tomcat postgres mysql
solar cassandra backuppc

index.gbif.es

VM: gbif18-solr6
Ubuntu 16.04
12 CPUs - 52GB RAM - 520G Stor.

solr

servicio de búsquedas solr

coleccion.es

VM: gbif-collectorysrv
Ubuntu 14.04
2 CPUs - 3.8GB RAM - 51G Storage

apache2 tomcat mysql

servicio de colecciones

jenkins.gbif.es

VM: gbif18-cass3
Ubuntu 16.04
12 CPUs - 52GB RAM - 520G Stor.

apache2 postgres solr cassandra
jenkins biocache-cli

servicio cassandra &
biocache-cli

red
pública

infraestructura
openstack
CSIC - IFCA

geo-ws.gbif.es

VM: gbif-geoserversrv
Ubuntu 14.04
12 CPUs - 52GB RAM - 61G Storage

apache2 tomcat postgres

servicio de capas y
geoespacial

lista-especies.gbif.es

VM: lista-especies.datos.gbif.es
Ubuntu 14.04
2 CPUs - 3.8GB RAM - 51G Storage

apache2 tomcat mysql

servicio de logs y
servicio de listas de especies
(en construcción)

mapas.gbif.es

VM: mapas.datos.gbif.es
Ubuntu 14.04
2 CPUs - 3.8GB RAM - 51G Storage

apache2 tomcat

servicio de mapas

kibana.gbif.es

VM: gbif-ela
Ubuntu 16.04
8 CPUs - 13GB RAM - 130G Storage

Elasticsearch, Logstash,
Kibana, netdata

servicios de monitorización y
otros servicios de apoyo

software de monitorización usada en todas
las instancias: icinga+nrpe, mmonit, sentry,
ninjabackup, backuppc, elastic filebeat

ipt-demo.gbif.es

VM: gbif-ipt-demo
Ubuntu 16.04
4 CPUs - 7.1GB RAM - 90G Storage

apache2 tomcat

Servicio de agregación,
indexado y búsqueda de
logs, servicio de estadística
de uso de recursos

support.gbif.es

VM: gbif-support
Ubuntu 16.04
2 CPUs - 4GB RAM -
110G Storage

R, ALA4R

IPT demo

R, ALA4R

red
privada

Components



Occurrences

<http://datos.gbif.es/>

Gbif.es Portal de datos IPT Natusfera eLearning GBIF.ORG @GbifEs CA EN ES

Portal Nacional de Datos de Biodiversidad Home Instituciones, colecciones y proyectos Juego de datos Buscar Explorar tu área Regiones

Registro de presencia

Búsqueda avanzada Búsqueda rápida

27.726.489 resultados para [all records] Descargar

Registros Mapa Estadísticas Imágenes

Descargar mapa

Color por: Base Del Registro Tamaño: 4 Opacidad: 0.6 Trazado:

Lat: 0.0996 Lng: -113.2734

Leaflet | Map data © OpenStreetMap, imagery © CartoDB

Filtrar los registros por:

Taxón

Nombre científico

- ☐ Aa fiebrigii (Schltr.) Schltr. (1)
- ☐ Aaronsohnia Warb. & Eig (4)
- ☐ Aaronsohnia factorovskyi Warb. & Eig (12)
- ☐ Aaronsohnia pubescens (Desf.)

[elegir más...](#)

Forma de vida

- ☐ Algae (104.934)
- ☐ Amphibians (117.993)
- ☐ Animals (14.122.284)
- ☐ Arthropods (1.158.656)
- ☐ Bacteria (4.215)

[elegir más...](#)

Registros

Año

- ☐ 1908 (1)
- ☐ 0 (60)
- ☐ 1604 (1)
- ☐ 1617 (1)
- ☐ 1619 (1)

[elegir más...](#)

Registro

Base Del Registro

- ☐ Espécimen fósil (36.078)
- ☐ Observación humana (22.284.602)
- ☐ Espécimen vivo (31.658)
- ☐ Observación automática (4.803)
- ☐ Material Sample (7.237)

- occurrence data (list records, map)
- specimen image (image module)
- data QC annotations (± 100 tests)
- preservation of original version of records
- large indexing field list
- extensive (customisable) filters and facets
- occurrences “in your location”

Gbif.es

Image visualization associated to specimens and some tools

<http://datos.gbif.es/>

CAENES

Portal de datosIPTNatusfera eLearningGBIF.ORG@GbifEs

Portal Nacional de Datos de Biodiversidad

HomeInstituciones, colecciones y proyectosJuegos de datosBuscadorExplora tu áreaRegiones

Registro de presencia

Búsqueda avanzada

Búsqueda rápida

Personalizar filtros

38.236 resultados para [all records]

Filtros seleccionados: Multimedia: "Image" ✕

RegistrosMapaEstadísticasImágenes

Filtrar los registros por:

Filtros seleccionados

Multimedia: "Image"

Taxón

Nombre científico

Abatia parviflora Ruiz & Pav. (1)

Abatia rugosa Ruiz & Pav. (1)

Abelia grandiflora (Rovelli ex Andre) Rehder (1)

Abies Mill. (2)

elegir más...

Especie

Abatia parviflora (1)

Abatia rugosa (1)

Abelia grandiflora (1)

Abies alba (6)

Abies nana (7)

elegir más...

Registros

Año

1778 (1)

1782 (2)

1784 (4)

1786 (4)

1787 (16)

elegir más...

Imágenes de los registros

Arabis hirsuta (L.) Scop. var. glaucescens Caball.

Echium plantagineum L.

Ranunculus longipes Lange ex Cutanda

Agave americana

Linum strictum L. subsp. strictum

Arenaria erinacea Boiss.

Vicia tetrasperma (L.) Schreb.

Trisetum panicum (Lam.) Pers.

Salix alba L.

Amaranthus powellii

Phytolacca

Thesium pyrenaicum Pourr. subsp.

CAENES

HomeImage details 810670

Admin

Image details 810670

Image propertiesEmbeddedUser Defined MetadataSystemAudit trail

Image Identifier2cb604c4-aaec-4ad6-88dc-d21634655379

Title4g5yndedqh.JPG

Creator

Data resource UIDdr313

Filenamedr313|40defd6d-1c21-4399-bcfd-6a2fcc17bd24|4g5yndedqh.JPG

Dimensions (w x h)1090 x 654

File size212.2 KB

Date uploaded13 mar, 2018 21:39:24

Uploaded by<Unknown>

Date taken/created13 mar, 2018 21:39:24

Mime typeimage/jpeg

Zoom levels5

Linear scale<not calibrated>

Image URLhttps://imagenes.gbif.es/store/9/7/3/5/2cb604c4-aaec-4ad6-88dc-d21634655379/original

MDS Hash91d3567b595cc8c94ec88569d9f1f6f1

SHA1 Hashb854285a1de97ab2316de5e9133599be08ca57ee

Size on disk (including all artifacts)839.4 KB

Rights

Rights holder

Licence

Harvested as occurrence record?No

Tags

Add tag

Thumbnails

https://registros.gbif.es/occurrences/search?q=*&fq=multimedia:%22Image%22#tab_recordImages

Gbif.Es

Registry of institutions, collections and datasets

<http://datos.gbif.es/>

**National Biodiversity
Data Portal**

Home

Institutions, collections and projects

Museo Nacional de Ciencias Naturales, Entomology

Museo Nacional de Ciencias Naturales (CSIC)

Description

The collection of insects of the MNCN (Madrid, Spain) constitutes the most valuable scientific Museum. It holds about 4,000,000 specimens from almost all over the world, being its main st Iberian Peninsula, Canary Islands, Morocco and Equatorial Guinea. It keeps some 25,000 type representing some 6,100 taxa. Strong points are Orthoptera (s.l.), Coleoptera and Hymenoptera. Orthopteroids, some Coleoptera and Hymenoptera are accessible online Note: this dataset w orphaned. It has been rescued by ① extracting it from the GBIF.org index (see GBIF Download Data) and ② republishing it on this IPT data hosting centre as version 1.0.

Type of content

Includes: point occurrence data.

Citation

Spanish National Museum of Natural Sciences (CSIC). Museo Nacional de Ciencias Naturales Occurrence Dataset <https://doi.org/10.15468/pqfubx> accessed via GBIF.org on 2018-02-06.

Rights

This work is licensed under a Creative Commons Attribution (CC-BY) 4.0 License.

17.311 records

Data access

 View records

 Download usage stats

Citations

 doi:10.15468/pqfubx

 11 citations for these data

Katia Cezon
[email this contact](#)

Web site
[Visit the data resource's website](#)

- institution list and description
- dataset list, description and dashboard
- linked to occurrences
- DOIs: track data shared through GBIF.

Registry of institutions, collections and datasets

<http://datos.gbif.es/>

Portal Nacional de Datos de Biodiversidad

Herbario de Plantas de Salamanca: SALAM

Universidad de Salamanca

Descripción

El Herbario de la Universidad de Salamanca se encuentra en la Facultad de Ciencias (SALA) y es gestionado por los profesores Bartolome Casaseca y Juan Carlos Martínez. Las colecciones: -SALA que corresponde al volumen de unos 140.000 pliegos de Fungi, con aproximadamente 20 colecciones se encuentran informadas en el portal internacional de biodiversidad (GBIF) y hongos en su totalidad anualmente entre 3000 y 3500 pliegos. -Briofítica Ibérica, se informatizan anualmente el herbario SALA es un proyecto de la Investigación de la Universidad de Salamanca.

Descripción geográfica

La gran mayoría de especímenes se encuentran principalmente en la zona Central de Europa: Portugal (2912 pliegos), Francia (2912 pliegos), Marruecos (1087).

Calidad de los datos

Determinación taxonómica de los especímenes por el Departamento de Botánica de la Universidad de Salamanca.

Métodos

Los especímenes una vez recolectados se introducen en bolsas de plástico incluyendo una etiqueta con el número de colector, como referencia a los datos anotados en el cuaderno de campo, posteriormente se prensa y seca con prensa de tornillos tradicional a temperatura ambiente o utilizando una prensa de aire.

Estadísticas de uso

Este Mes

0 registros descargados de 0 downloads.

Biosecurity management/planning	0 events	0 records
Citizen science	0 events	0 records
Collection management	0 events	0 records
Conservation management/planning	0 events	0 records
Ecological research	0 events	0 records
Education	0 events	0 records
Environmental assessment	0 events	0 records
Other	0 events	0 records
Other scientific research	0 events	0 records
Restoration/remediation	0 events	0 records
Scientific research	0 events	0 records
Systematic research/taxonomy	0 events	0 records
Testing	0 events	0 records

*Los test de las estadísticas no están incluidas en el recuento total de descargas.

Últimos 3 meses

0 registros descargados de 0 downloads.

Biosecurity management/planning	0 events	0 records
Citizen science	0 events	0 records
Collection management	0 events	0 records

CA EN ES

tu área Regiones

Salamanca 800 Años 1218 - 2018

LEVS

cas de uso

6t

a data

tribution-Noncommercial 4.0

1826-09-29 - 2011-08-03

- Usage statistics
- Number of data downloaded over time

Regions module

<http://regiones.gbif.es/>

Gbif.es

Data portalIPTNatusfera eLearningGBIF.ORG@GbifEs

CAENES

National Biodiversity Data Portal

HomeInstitutions, collections and projectsDatasetsSearchExplore your areaRegions

Select a region to explore

Select the type of region on the left. Click a name or click on the map to select a region. Use map controls or shift-drag with your mouse to zoom the map. Click the region button to explore occurrence records, images and documents associated with the region.

Click on a region name to select an area

Espacios Naturales Protegidos

Provincias

- A Coruña
- Albacete
- Alicante
- Almería
- Asturias
- Badajoz
- Baleares

Regiones Biogeográficas Estatal

Zona de Especial Protección para las Aves

Red Natura 2000

Asturias


Zoom to region

Reset map

+

-

Asturias



Leaflet | Map data © OpenStreetMap, imagery © CartoDB, Atlas of Living Australia

☒ All regions

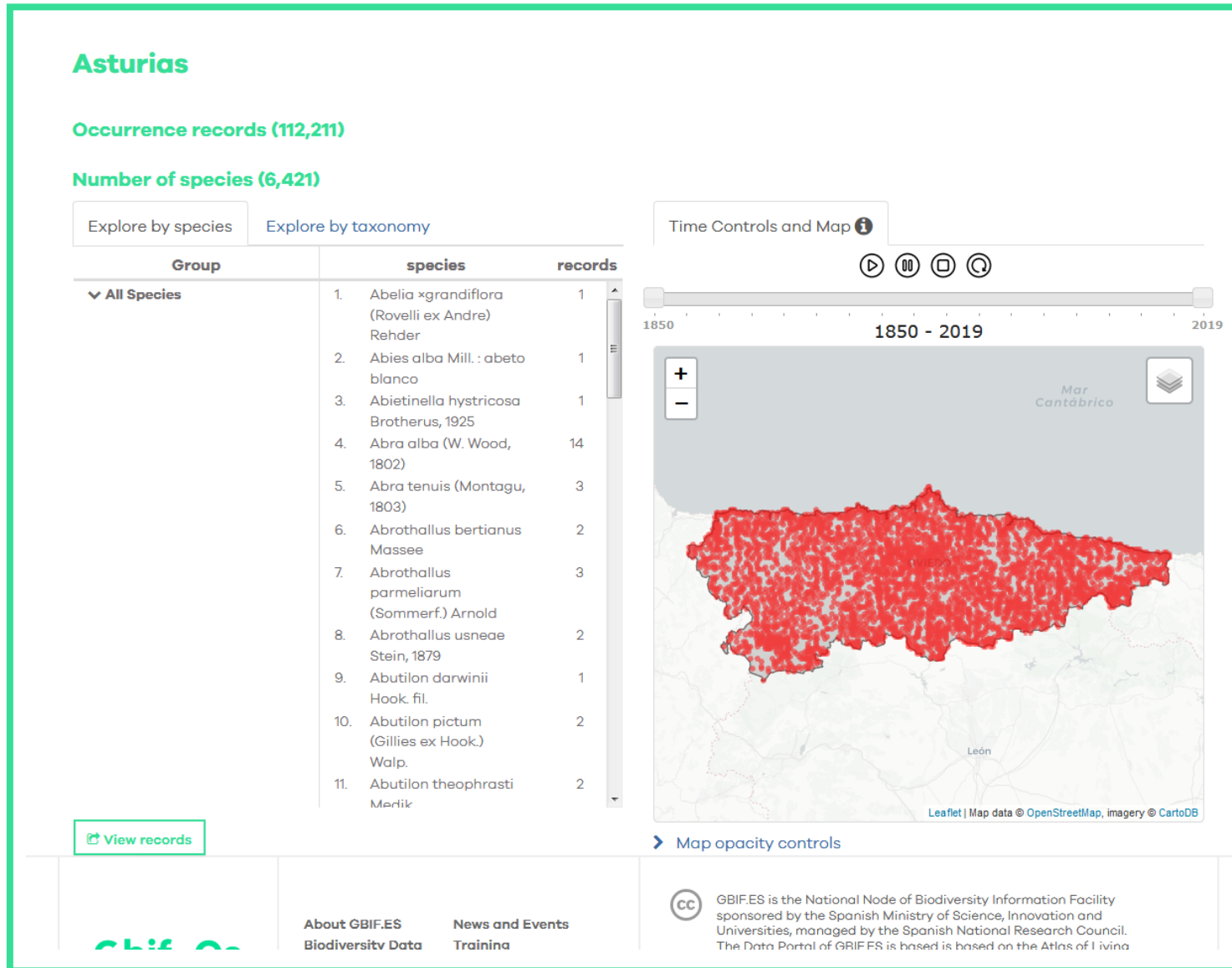
☒ Selected region

- find the species recorded in a defined region
- Spatial layers such as natural protected areas, national parks, biogeographic regions, political boundaries, etc.
- summary reports per geographic area

Gbif.es

Regions module

<http://regiones.gbif.es/>



- list of species with number of occurrences
- explore taxonomy

Species pages

<https://especies.gbif.es/>


Animalia / Chordata / Mammalia / Carnivora / Felidae / Lynx Kerr, 1792

Lynx Kerr, 1792 Kerr, 1792 JSON



Lynx

genus Aceptado **Name authority:** GBIF Backbone Taxonomy

Resumen **Galería** Nombres Clasificación Registros Literatura Secuencias Socio de datos



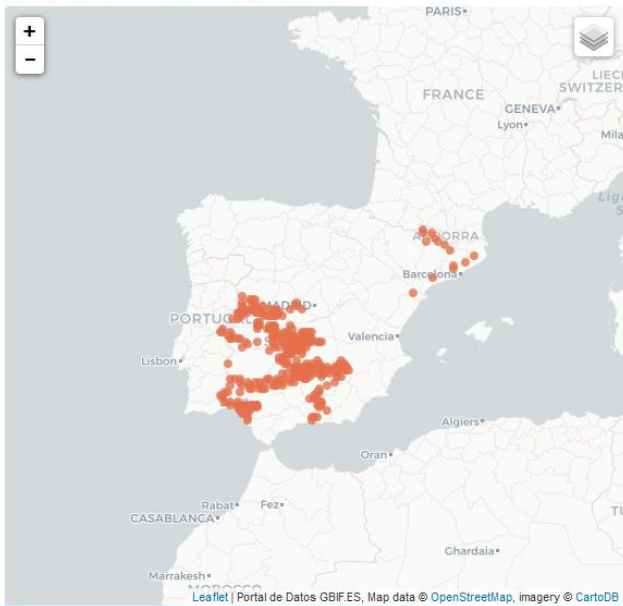
Lynx pardinus (Temminck, 1827)
Photographer: <https://natusfera.gbif.es/users/2369>



Lynx

This article is about the species of wild cat. For other uses, see [Lynx](#)

Occurrence records map (421 records)



Ver mapa interactivo Ver los registros

- aggregates data on
 - species description
 - common names
 - taxonomy
 - image gallery
 - sequence data
 - bibliography
- provides access to occurrence records, spatial analysis

Gbif.es

<https://especies.gbif.es/species/2435239>

Species lists

<https://listas.gbif.es>

Portal Nacional
de Datos de Biodiversidad

HomeInstituciones, colecciones y proyectosJuego de datosBuscarExplorar tu áreaRegiones

Species lists

Upload a listMy Lists

This tool allows you to upload a list of species, and work with that list within the Atlas.
Click "Upload a list" to upload your own list of taxa.

Below is a listing of user provided species lists. You can use these lists to work with parts of the Atlas.

Search in list name, description or ownerSearch

Items per page: 25

Nombre de la lista	Tipo de lista	Acreditado	Invasora	Amenazada	Propietario	Date Submitted	Date Updated	Item Count
Iberian Zygaenidae in Fernández-Rubio, F. 2005. Zygaenidae (Lepidoptera). Fauna Iberica vol 26. Museo Nacional de Ciencias naturales-CSIC. Madrid	Species characters list	No	No	No		2019-01-08	2019-01-08	42
Catálogo Español de Especies Amenazadas	Conservation list	No	No	No		2019-01-07	2019-09-13	750

- Support to species lists for detailed data analysis
 - different taxonomic criteria
 - endangered species
 - invasive species
 - thematic lists
 - national lists

<https://especies.gbif.es/species/2435239>

gbif.org VS datos.gbif.es

gbif.org VS datos.gbif.es		
Characteristics	www.gbif.org	www.datos.gbif.es
Scope	services designed for the global community	customised services to support national priorities
Hierarchie	2 information levels (publishers / datasets)	3 information levels (institutions / collections & projects / datasets)
Modules	Only occurrences	Species information, Geospatial module, analysis
Trazability	DOI for dataset and data download	DOI for dataset

Gbif.es

Cristina Villaverde
villaverde@gbif.es
GBIF Spain.
Royal Botanic Garden - CSIC



MINISTERIO
DE CIENCIA, INNOVACIÓN
Y UNIVERSIDADES



CSIC

REAL JARDÍN
BOTÁNICO

Gbif.es