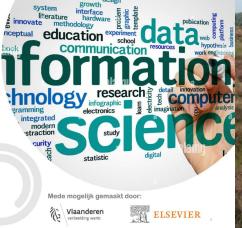
BELGIË EN DE WERELD VAN OPEN BIODIVERSITEITSDATA

Tussen Bubbel en Silo Sporen naar adequate informatie

Donderdag 24 november 2022

Auditorium – Ellipsgebouw Koning Albert-II Iaan 35 1030 Brussel

felnet



Dimitri Brosens Belgian Biodiversity Platform & Research Institute for Nature and Forest (INBO) <u>dimitri.brosens@inbo.be</u> <u>0000-0002-0846-9116</u> Open science lab for biodiversity (INBO)







Global Bioc

Information Facility

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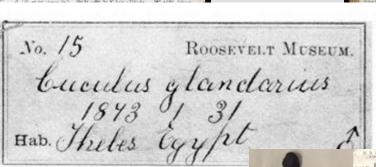


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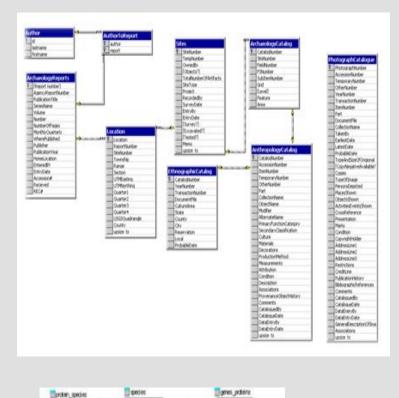
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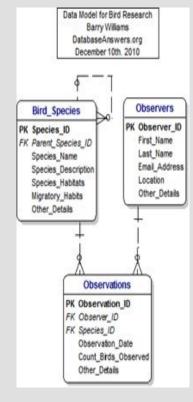
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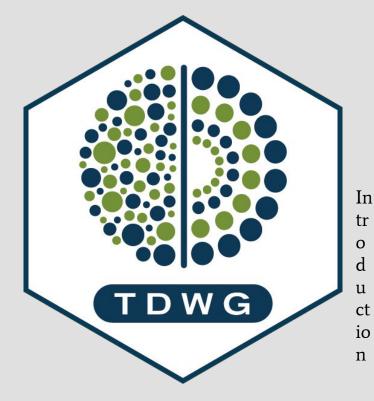
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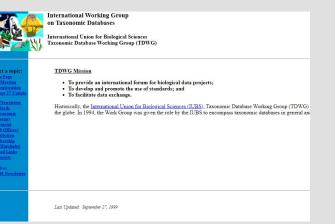
1994

- TDWG was founded in 1985 as the Taxonomic Databases Working Group
- Formed as an international collaboration to promote the wider and more effective **dissemination of information** about biological organisms.
 - Initially focusing on plant taxonomic databases
- 1994 it expanded its scope to cover all taxonomic databases and changed its name to Taxonomic Databases Working Group (TDWG).
- In 2006 the group decided to change their name to emphasise their focus was on standards for **sharing biodiversity data**, rather than on taxonomy or the databases themselves.
- The name became **Biodiversity Informations Standards** (TDWG).

The association currently:

- **Develops, adopts, and promotes standards** and guidelines for the recording, discovery, exchange, and integration of data about organisms,
- **Promotes the use of these standards** and guidelines through the most appropriate and effective means, and
- Acts as a forum for discussion about biodiversity informatics standards

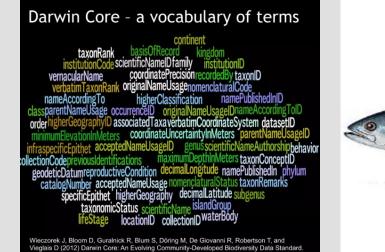


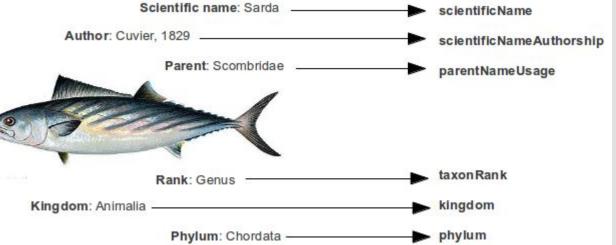


- **Darwin Core (DwC)** was originally created as a Z39.50 profile by the Z39.50 Biology Implementers Group (ZBIG)
- The name "Darwin Core" was first coined by Allen Allison at the first meeting of the ZBIG held at the University of Kansas in 1998 while commenting on the profile's conceptual similarity with **Dublin Core**.
- The Darwin Core is a **body of standards** intended to facilitate the **sharing of information** about **biological diversity**.
- The DwC includes a glossary of terms

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• Each DwC term includes **a definition** and discussions meant to promote the **consistent use** of the terms across applications and disciplines.





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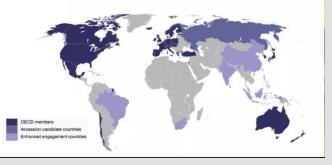
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- **GBIF** (The Global Biodiversity Information Facility) arose from a 1999 recommendation by the Biodiversity Informatics Subgroup of the Organization for Economic Cooperation and Development's (**OESO - OECD**) Megascience Forum.
- This report concluded that "An international mechanism is needed to make biodiversity data and information accessible worldwide"
- **Belgium** was one of the founding members of GBIF
- The **Belgian GBIF node** was established in 2001 and became part of the Belgian Biodiversity Platform in 2005
- Start of VLIZ & marine datacenter & OBIS (Ocean Biodiversity Information System)





OECD Global Science Forum recommendation (1999): "[E]stablish and support a distributed system of interlinked and interoperable modules (databases, software and networking tools, search engines, analytical algorithms, etc.) that together will form a Global Biodiversity Information Facility (GBIF)".





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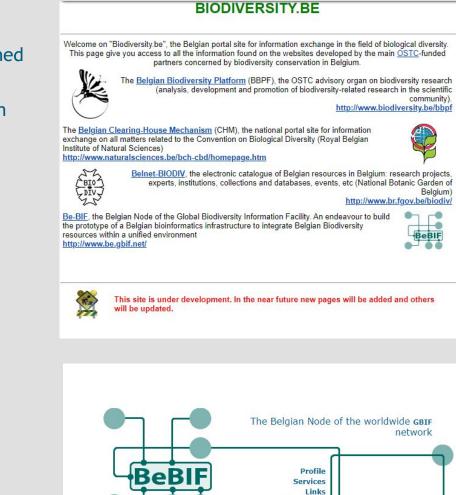
GBIF status (1)

- Came into existence in March 2001
- Currently has 74 members (46 countries, 28 international organisations)
- 26 countries support GBIF financially (Voting Participants)
- 20 countries and 28 organisations as Associate Participants (e.g., IABIN, BioNet, IUCN, UNEP)

2002

The **Belgian Biodiversity Platform** was established in 2001

- The Belgian Node of GBIF (BEBIF) was established in 2002
- In 2003 the BEBIF node was merged with the Belgian Biodiversity Platform



Belgian Biodiversity

Information Facility

Contact us

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2003

• GBIF is an **international network** of participant data holders dedicated to:

Making the world's biodiversity data **freely and universally available** via the Internet

ISharing <u>primary</u> scientific biodiversity data to benefit society, science and a sustainable future

- GBIF is an intergovernmental initiative whose formal members—known as 'Participants'—consist of countries, economies and international organizations, each of which signs the GBIF Memorandum of Understanding (MOU) and agrees to collaborate in advancing free and open access to biodiversity data.
- Under the terms of the MOU, each participant designates a "**node**" responsible for coordinating GBIF-related activities within a given country or organization, often including management of their own network of data-sharing institutions or "publishers".

Welcome to the Website of the **Global Biodiversity Information Facility!**





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2005

First datasets published by the Belgian BEBIF/ Belgian Biodiversity Platform

• 1 Belgian Publisher

GBIF status (2)

- As of 15 March 2005, its data portal (www.gbif.net) served >65 million specimen and observation records from >70 data providers
 - Hope to serve 100 million records by 12/05
- Portal also has more than 600,000 species names provided by more than 25 names providers

BeBIF Provider		
Belgian National Node of GBIF		
Installation type: DiGIR installation		
Hosted by: Belgian Biodiversity Plat	form	
Registered: September 5, 2012		
Endpoints: http://digir.bebif.be/mai	n/DiGIR.php	
CONTACTS		
Julien Cigar	André Heughebaert	
Technical point of contact System Administrator	Administrative point of contact Node Manager	
jogan@ulb.ac.be	Belgium	
+32 (0)2 650 57 52	a.heughebaert@blodiversity.be	
	+32(0)2 650 57 51	
DATASET		
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1.350 occurrences 88 citations		

INSTALLATION



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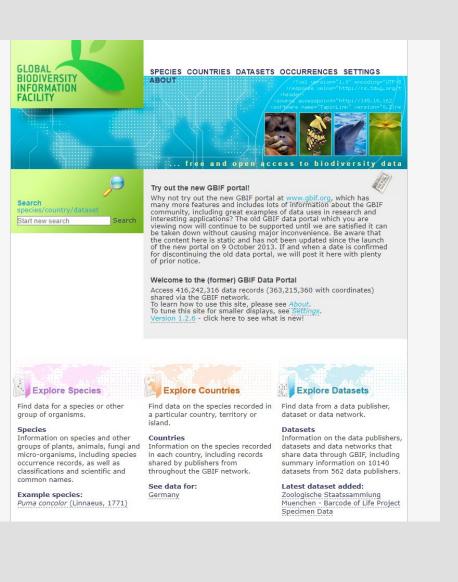
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- The Belgian Biodiversity Platform is the **GBIF node** for Belgium, based in the ULB
- First GBIF Governing board in Brussels, Belgium
- The GBIF secretariat has set up a consultation process on his prototype data portal.
- Data publication from Belgium is active
 - Mainly **digitization calls** (2006-2012)
- GBIF data is mostly specimen/collection data



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- The data team at the Belgian Biodiversity Platform is growing and more decentralized
 - 3 FTE in ULB
 - 1 FTE in INBO
- More and more **observation data** (INBO)
- INBO becomes data publisher for GBIF
- Many scientists are reluctant towards data publication <-> some are enthusiast or curious

• First dataset on GBIF was published for Flanders

Get data How-to Tools Community About	occurrence dataset registered MAY 7, 2012 brates and macrophytes Flanders, Belgium Published by Research Institute for Nature and Forest (INBO	s of freshwater bodies in
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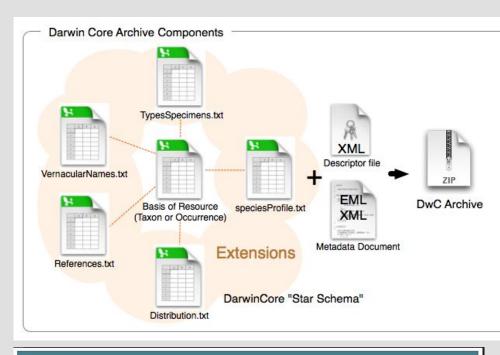
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2010

2010

- Data published in DwC-A (Darwin Core Archive)
 - Star scheme
 - $\circ \quad \text{Core file} \rightarrow \text{occurrences}$
 - Extension
 - vernacular names
 - Measurements or Fact
 - **...**
 - XML descriptor file
 - XML EML (Ecological Metadata Language)
- Data in GBIF portal is
 - Interoperable
 - Findable
 - Accessible
 - Reusable



Darwin Core vs. Darwin Core Archive

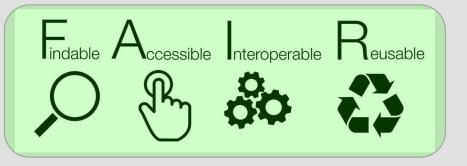


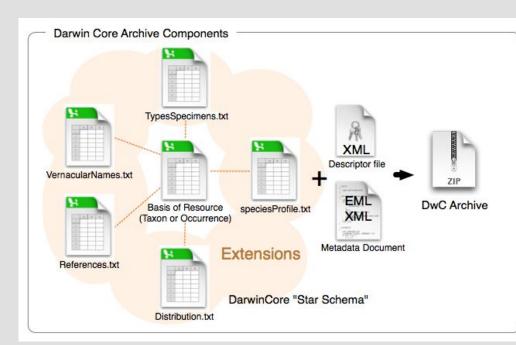
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2010

- Data published in DwC-A (Darwin Core Archive)
 - Star scheme
 - $\circ \quad \text{Core file} \rightarrow \text{occurrences}$
 - Extension
 - vernacular names
 - Measurement or Fact
 - **...**





Darwin Core vs. Darwin Core Archive



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- Publication of more and more datasets through INBO
- First Datapaper published
 - Florabank1 (3 500 000 records) 0
- BBPF starts creating tailor made portals
- **IFBL** Portal online
 - some media coverage 0
 - servers burned 0

NEWS RELEASE 23-MAY-2012

New tool for visualizing the dist of vascular plants in Belgium Business Announcement PENSOFT PUBLISHERS

The Belgian Biodiversity Platform has just released a new website "IFBL Data Portal, Explore Flora Checklists of Belgium". It aggregates about 23,000 checklists of vascular plants in Belgium, compiled since 1939. Users can search a database of over 2.5 million observations of over 2,800 different species. The website will be updated on a monthly basis, in cooperation with the Florabank database.

This website is a result of the cooperation between the Belgian Biodiversity Platform, Flo.Wer, the National Botanic Garden of Belgium and the Research Institute for Nature and Forest (INBO). The data originates from two digitization projects funded by the Belgian Biodiversity Platform Australia.

GBIF COMMUNITY

Globally-hosted data integrated into Australian national portal

The Atlas of Living Australia (ALA) has integrated more than a million records of Australian biodiversity, drawn from collections published through GBIF by institutions in other countries.

The records now exposed in the ALA national portal are from over 300 datasets hosted in 11 countries. They range from Australian plant records held in the United Kingdom's Royal Botanic Gardens, Kew and the Hong Kong University Herbarium; to zoological specimens in Poland and the United States.

The integration enables users of the ALA portal to combine the records held overseas with Australianhosted data, for use in online tools to explore and analyse Australian biodiversity. The tools include distribution modelling with Australian environmental layers, data slicing to direct queries on regional data, data quality processing, and viewing the data against national species lists.



Home Articles Abour

toKeys 12: 59-67 ts://doi.org/10.3897/phytokeys.12.2849 (16 May 2012)

2 Flo.Wer, Bouchout Domain, Nieuwelaan 38, 1070, Meise, Belgium NBGB (National Botanic Garden of Belgium), Bouchout Domain, Nier

Abstract

🝀 PhytoKeys

G •

WEBSITE. view more >

Florabank1 is a database that contains distributional data on the wild flora (indigenous species archeophytes and naturalised aliens) of Flanders and the Brussels Capital Region. It holds about 3 million records of vascular plants, dating from 1800 till present. Furthermore, it includes ecological data on vascular plant species, redlist category information, Ellenberg values, legal status, global distribution, seed bank etc. The database is an initiative of "Flo.Wer" (www.plantenwerkgroep.be), the Research Institute for Nature and Forest (INBO: www.inbo.be) and the National Botanic Garden of Belgium (www.br.fgov.be). Florabank aims at centralizing botanical distribution data gathered by both professional and amateur hotanists and to make



Igian flora

The Belgian Biodiversity Platform, which hosts the GBIF node for Belgium, has developed a new website of the country's flora. The site gathers 23,000 checklists of vascular plants in Belgium, compiled since 1939. Over 2.5 million observation records of more than 2,800 species are available on the portal, making it a powerful tool to visualize the distribution of vascular plants in Belgium.

The IFBL website was developed by the Belgian Biodiversity Platform, Flo.Wer, the National Botanic Garden of Belgium and the Research Institute for Nature and Forest (INBO). Currently, the portal brings together data from the Atlas of Belgian and Luxembourg Flora, and from Florabank, a database of the wild flora of Flanders and the Brussels region, and it will be updated every month.

The Florabank1 database has been described in a new data paper, based on a GBIF metadata document, and published in the open access journal PhytoKeys.

Institutions dealing with data on vascular plants in Belgium may contact Nicolas Noé (n.noe@ biodiversity.be) to publish their data through the IFBL data portal.

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• First Flemish open data day

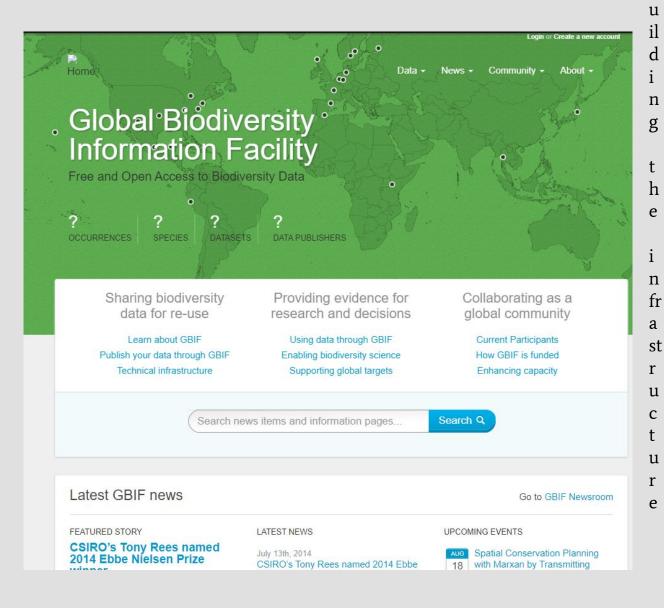
		OPEN DATA - VAN STRATEGIE TO PRAKTU	к	APPS FOR FLANDERS
8.00 - 09.00		Inschrijvingen - Koffie		
	Keynote: And	rew Stott (UK) - Open Data: best practices in Europe an	nd key challenges facing the European Union	
9.00- 10.00		Plenaire sessie - Citadel on the Move: Geert Mareels, abling Smart City Services through Open Data, Mobile Appli	cations and Common Data Formats	
0.00 - 10.45	Workshop Ton Zijkore en Peul Saijkerbuijk (Wedriand) Het gaat good met open data in Nederland! Het gaat sloch met open data in Nederland! Een groeinen data portaal (data overheid nl), actieve stadsbesturen, good georganisende activisien, ministeries die beitung jus dataats vij beschsbaar meinen, het gaat helige innt open data in Nederland. Workzaamhoden en budgetten onder druk, het risco dat het bij weltotivende erste stagen bligt, en unchtere kijk op open data in Nederland, de kassen, bedreigingen, resultaten en beloften. Vergelijkbare situatie in Vlanderen?	Workshop Tongo De Lastre / Agericaj Deve cheldicialinformatile, een goudmijn voor ondernemens? Open oonteidicialist en hergebruik: - Welke combinatie van datasets is nuttig voor hergebruik door de privé- sector? - Welke dentiten worden er gevraagd zaak unieke informatielioketten voor overheidisriformatie? (-vlaanderen) - Hoe open data in mijn busineus model situeren?	Workshop Ketlen Anssen (KUL Leuven) Het huldige wettelijke kader in Vlaanderen voor open data. Deer workshop zij lagan op het huldige wettelijke kader in Vlaarderen met betrekking tot open ditte, met fonus op de wetgeving nachte toegeng tot, en hergebnak van voerheidselformatie. De kansen, valhulen en gevolgen van de nieroze PSI richtlijnen voorgestiel door de Europee Commissie worden begroßen. Het loomsbeldende met betrekking tot na toen bechaftige artiken van overheidselformatie brigt ook bijondere aandacht in deze workshop.	HACKATON: Cadrdinato: Parter Capaert, (OV/N)
0.45 - 11.15		Koffie en mogelijkheid tot netw	verken	10-
1.15 - 12.00	Workshop Reter Von Ontersven (De Lijn) De Lijn en open data. De lijn en open data. De lijn stuft meir en meier data er beschikking aan derde partijen en streeft hoe langen her meir anzah het hergeteruk van dere data in 3rd party appl. Voorbeelden hiervan zijn Scotty be en iRAL.	Werkahap Yesi Verdeken (#07) Open data: systeem- en technische architecturale aspecten. Veel organisaties willen wei met open data aan de slag, maar weten niet proteis her dat met / Vaak ook zij on vragen over de technische aspectens von open data. In deze workhop bespreken wij een mopelijke aanpak en referentie	Werkshop Eddy Van Stock (V-CT-OR) Filip Menni (Intercommande Loledal) Open data, hoe start & in mijn bestuur? Laidal en V-CT-Otame aan hee lokale besturen maaimaal kunnen participeren in de open-formatisaameleving, be projecten OSLO en Catade on the More tonen aan hoe open standaadhen en sisuetekol	HACKATON
2.00 - 13.00		Lunch		
	Кеу	note: Chris Taggart (UK) - Open Data in the UK and the	World, Status & Lessons Learned	
3.00 - 14.15		Plenaire sessie Chris Taggart (UK) - Andrew Stott (UK) - Bart Rousseau (Stad Open Discussion: How to apply lessons learned fro UK and global open data communities, this plenary session and discussion we the common pitfalls.	m the UK and the world	nd Belgium, to allow them to avoid som
4.15 - 14.45		Koffie en mogelijkheid tot netw	verken	
4.45 - 15.30	Workshop Teo Zjihore en Paul Sajikerbulji (Noderland) Het gast good met open data in Noderland! Het gast good met open data in Noderland! Een growinet disk portaal (sita overheid el), aitsines staksheituren, good georganiseetd arbintar, misterises die balang viel distants vrij barkshibaar maken, het gaar bala good met open data in Nederland. Werkaamtdee met balagetten onder duik, het risso dat het bij veeltekreede eerste stappen bijft, een nuchten kijk op open data in Nederland, de kaane, bekengingen, rusuitaten met belatten. Voogeljobare	Workshop Bert Reserve (Saed Gent) Ingl Auple (FX-CF-OR) Open data; ja natuurlijkt Maar wet: ite en soor nign organisatio? Open data: hen: International voorberleinden tenne aan dat Open Data- ogenisatie? Var soor ingin oppilatie? Var soor ingin oppilatie? Var soor ingin Data interactieve workshop brengt het verhaal van 5 spreker die actuel ajn Interne lukder workelen an two visje en ordstiteven date.	Nonhang Exclose Jenses (NUL Konver) Het huldige wetetlijke koler in Maanderen voor oppen data. Daes workinge singen op het huldige wetetlijke koler in Maarderen met betrekking tot open dink, met fonus op de wetgeving nakte toegeng tot, en hetgebruk van voerheidsenformatik. De konner, valituiten en gevolgen van de nieuwe 95 nichtlijken voorgesteid doore forsoppeic Cerminie worden begroten. Het loostisbeleid met betrekking tot het ekern beschikbaar stellen voor overheidsformate keijt ok bijsonder aanduckte in dee	HACKATON
. 30 - 16.45	neoveranic, or variant, un variant reason in an anno 1999 anno 199	unnen skala vernoan en na vaa en postporvaregen ooni, waaronder Fair Kosseau die schets hoe Opin data het verschil maait voor de Stad Gent. Wrap-up, Conclusies uit de workshops, Ret	workshop.	
.45-17.00		Afsluitwoord - Minister Geert B		
.00		Receptie en mogelijkheid tot net		

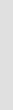
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t h e

n e t w o r k

- Launch of the new GBIF web portal
- Launch of the GBIF API





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• Open Data dag



A look back to the Open Belgium Conference 2014

February 25, 2014 Pieter-Jan Pauwels



Sprekers

De derde editie van de Open Data Dag in Vlaanderen staat volledig in het teken van het gebruik van Open Data, m.a.w. de vraagzijde. In 2012 en 2013 hebben wij vooral de aanbodzijde aan het woord gelaten. Deze keer zijn het de ontwikkelaars, individuen, bedrijven, organisaties, andere overheden...die open data gebruiken om meerwaarde op allerlei gebied te creëeren. Zoals vorige jaren kunnen wij weer meer dan twintig uitstekende sprekers uit binnen- en buitenland begroeten.

Organisator: Noël Van Herreweghe. Keynote sprekers: Saskia Van Uffelen en Bart Van Leeuwen. Sprekers:Christian Lister - Bart Rosseau - Toon Vanagt - Chris Van Aart -Ian Makgill - Nicolas Kint - Bart Dumolin - Pol Deltour - Ton Zijlstra - Paul Suijkerbuijk - Nicolas Futter - Baudouin Corlûv - Vital Schreurs - Peter Bonne - Ides Bauwens -Bombout Verwimp - Stefan De Konink - Steven Logghe - Christiaan De Backer - Frank Huynen - Bart Lowyck - Peter Van De Perre - Luc Chauvin - Erik Mannens - John van Echtelt - Geert Mareels

Noël Van Herreweghe--Vlaamse overheid

Noël Van Herreweghevlaamse overheid

Noël Van Herreweghe - is programmamanager Open Data en de organisator van de Open Data Dag in Vlaanderen

Titel presentatie Open Data Dag in Vlaanderen 2014 Website <u>Opendataforum</u> Twitter <u>@opendataforum</u>

Keynote: Saskia Van Uffelen

Keynote: Saskia Van Uffelen

Saskia Van Uffelen is CEO België en Luxemburg voor Ericsson

Check of storify comeen typfout heyat

- Day 1: Open Belgium
- <u>Day 2: Open Europe</u>
- <u>Day 3: Open World</u>
- <u>Speakers</u>
- Presentations
- <u>Photos</u>

Join Open Data Pioneers, practitioners, thinkers and researchers from across the world to unlock and advance the power of collaboration and Open Innovation in this joint conference by the Open Knowledge Foundation (OKFN), Citadel on the Move and Linked Organization of Local Authority ICT Societties (LOLA). 17/18/19 February 2014

Bijloke, Gent

Opnieuw laden

datadays2014 featured conference datadays

Last monday, on the 17th of February 2014, the first edition of the Open Belgium Conference was held in the STAM Museum in the City of Ghent as part of the three day conference called DataDays. DataDays is an initiative organised by <u>OKEN Belgium</u>. <u>Citadel on the move</u> and <u>LOLA</u> to discuss the role and future of Open Data on a national, European and global level.

The Charife summary helps, is a use to show exemption attended. (as a loss loss and as a low he



pen Knowledge Belgium

Pieter Colpaert pieter.colpaert@okfn.org @pietercolpaert

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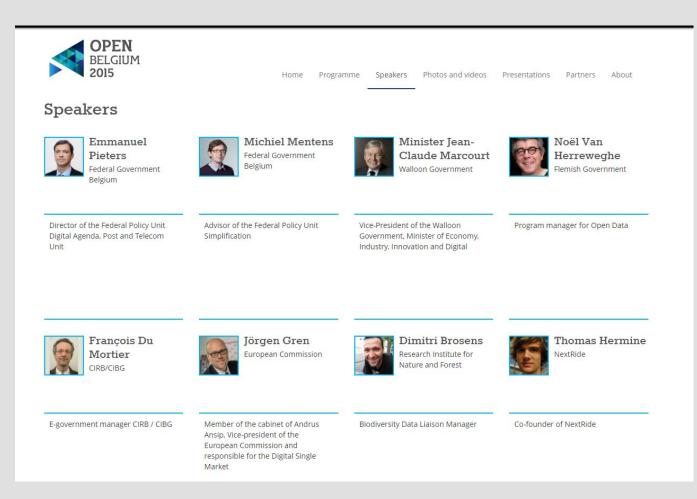
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• Open Belgium 2015

• Both worlds meet



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- Empowering Biodiversity Research conference 2015
 - For an **scientific** audience
 - What **tools** are available
 - What projects are starting
- There is a world of **tools**, **standards** and **data** out there, ready for you to use. Biodiversity Informatics deals with the application of informatics techniques to biodiversity information for improved **management**, presentation, discovery, exploration and analysis of scientific data. Combined with open data sources on the Internet, this is a powerful new approach in doing research. During this conference, organised by the Belgian Biodiversity Platform and several key institutes, we would like to take you on a trip to the world of **biodiversity** informatics & open data.

The Belgian Biodiversity Platform and several key Biodiversity Informatics related partner institutes are pleased to invite you to the Conference "Empowering Biodiversity Research", which will take place on May 21th 2015 in Brussels at the Palace of Academies.

EMPOWERING BIODIVERSITY RESEARCH

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The conference will bring together representatives of national and international scientific institutes to explore and discuss the opportunities and strengths related to Biodiversity Informatics and Open Data. Three keynote speakers will start the day:

Vince Smith, research leader in informatics at the Natural History Museum, London
 Dr Hilde Eggermont, Scientific Coordinator at the Belgian Biodiversity Platform
 Pieter Colpaert, Researcher at Open Knowledge Belgium



There is a world of tools, standards and data out there, ready for you to use. Biodiversity Informatics deals with the application of informatics techniques to biodiversity information for improved management, presentation, discovery, exploration and analysis of scientific data. Combined with open data sources on the Internet, this is a powerful new approach in doing research. During this conference, organised by the Belgian Biodiversity Platform and several key institutes, we would like to take you on a trip to the world of biodiversity informatics & open data. After this conference a series of related workshops will be organized.





GBIF Global Biodiversity Information Facility Country Report 0 12-month report Belgium ending 31 December 2016 This report provides a series of summary charts, statistics and other details about the mobilization and use of open-access species data through the GBIF network at global and national scales. These metrics represent change over the past 12 months, unless otherwise noted. Taken together, the elements of this report can help guide and measure progress toward the information needs for national and international commitments on biodiversity and sustainable development. > Access and usage **Researchers from** Belgium 2013 contributed to 13 peer-reviewed articles citing GBIF use during this reporting period and a total of GBIF 56 articles since 2008

Figure 1. Number of peer-reviewed publications citing use of

global GBIF-mediated data

Global Biodiversity Information Facility

Activity report

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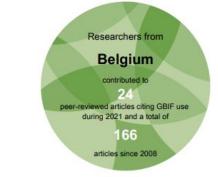
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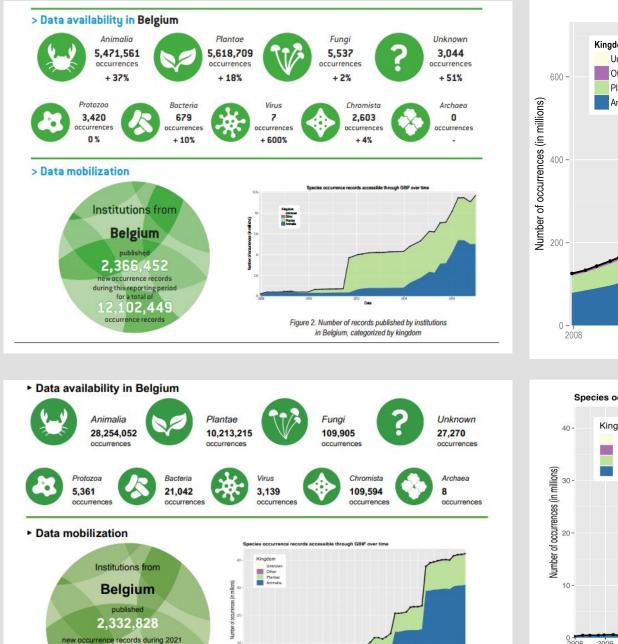
Belgium

This report provides a series of summary charts, statistics and other details about the mobilization and use of open-access species data through the GBIF network, relating to users and participating institutions in Belgium. These metrics show status at the time of report generation, unless otherwise noted. Taken together, the elements of this report can help guide and measure progress toward the information needs for biodiversity research, as well as for national commitments on biodiversity and sustainable development.

Access and usage



2022



2015 2016 Date

Number of records published by institutions in Belgium,

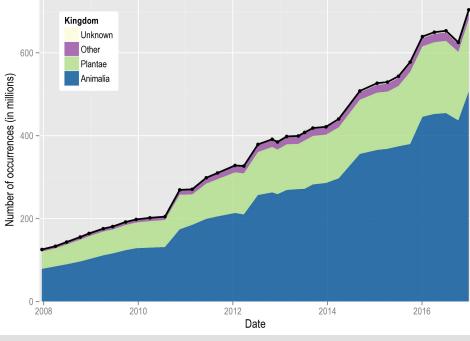
categorized by kingdom

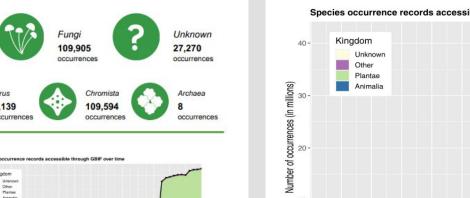
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285.499.295

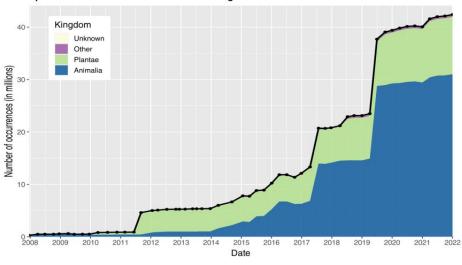
occurrence records added globally to GBIF.org

Species occurrence records accessible through GBIF over time





Species occurrence records accessible through GBIF over time

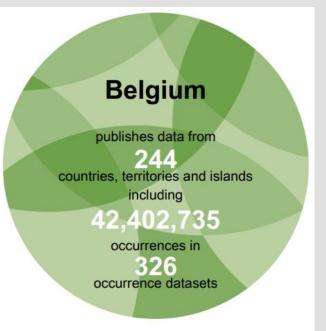


Number of records published by institutions in Belgium, categorized by kingdom

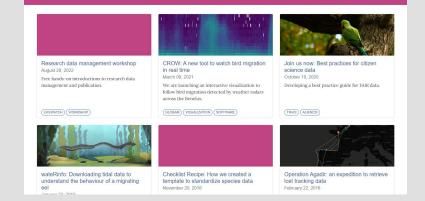
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2022

- 1 FTE in INBO on data publication
- 2 FTE in BBPF on data publication and biodiversity informatics
- Vliz Marine Data center...

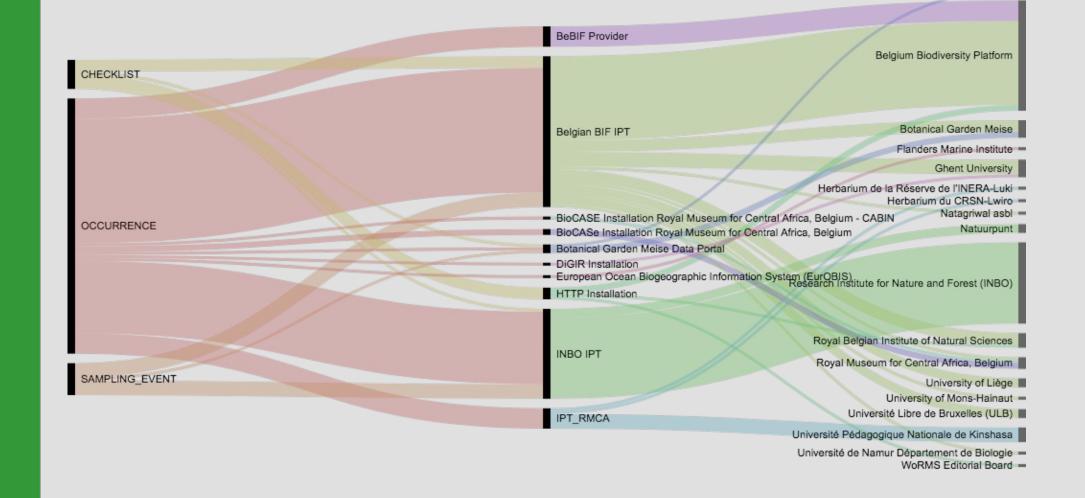


Blog



 several teams in INBO/ VLIZ/ RBINS/ AfricaMuseum/ Botanic Garden Meise... do have data publication and biodiversity informatics in their portfolio

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2022

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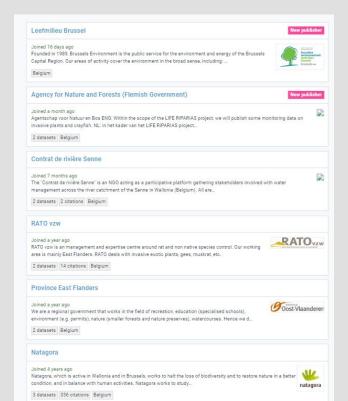
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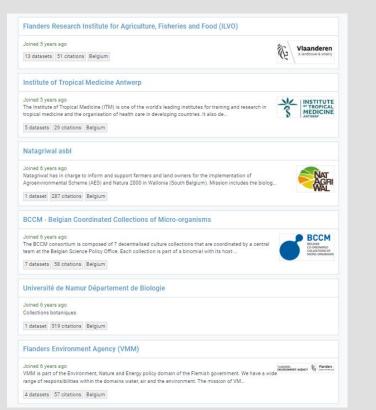
2022



- institutions & universities
- NGO's / private companies
- Museums

• Governmental agencies...





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2022

WoRMS Editorial Board

Joined 7 years ago The aim of a World Register of Marine Species (WoRMS) is to provide an authoritative and comprehensive of names of marine organisms, including information on synonymy. While highest priority goes...

1 dataset 1 citation Belgium

Natuurpunt

Joined 7 years ago Natuurpunt is Flanders largest NGO in nature conservation. Our key missions are nature reserve management, nature policy, advuzation, and research. We coordinate and support volunteers in collecting in...

g in...

Meise Botanic Garden

11 datasets 622 citations Belgium

18 datasets 1.031 citations Belgium

Joined 8 years ago

Meise Botanic Garden (MeiseBG) has a long history that goes back to 1796. Today, it is an internationally recognized botanic garden in a domain of 92 hectares, and a center of excellence for plant bio...



UNIVERSITÉ

LIBRE DE BRUXELLES

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& WoRMS

Université Libre de Bruxelles (ULB)

Joined 9 years ago

The Université libre de Bruxelles has 12 faculties that cover all the disciplines, closely combining academic input and research. It offers almost 40 undergraduate programmes and 247 graduate programm...

Flanders Marine Institute

198 datasets 138 citations Belgium

5 datasets 456 citations Belgium

Joined 11 years ago The Flanders Marine Institute (VLIZ) is a centre for marine and coastal research. As a partner in various projects and networks it promotes and supports the international image of Flemish marine scien...



Service Public de Wallonie - Département d'Etude du Milieu Naturel et Agricole (SPW - DEMNA)

Joined 11 years ago

5 datasets 314 citations Belgium

Royal Belgian Institute of Natural Sciences

Joined 11 years ago Royal Belgian Institute of Natural Sciences

26 datasets 910 citations Belgium

Ghent University

Joined 13 years ago

Ghent University is a top 100 university and one of the major universities in Belgium. 11 faculties offer a wide range of courses and conduct in-depth research in both exact and social sciences.

13 datasets 485 citations Belgium

Research Institute for Nature and Forest (INBO)

Joined 13 years ago

The Research Institute for Nature and Forest (INBO) is a scientific institute of the Flemish Government in Belgium. INBO has resulted from the merger of the Institute for Forestry and Game Management ...

92 datasets 713 citations Belgium

Belgian Biodiversity Platform

Joined 13 years ago

http://www.biodiversity.be

29 datasets 639 citations Belgium

Royal Museum for Central Africa, Belgium

Joined 13 years ago http://www.africamuseum.be

7 datasets 204 citations Belgium

University of Mons-Hainaut

Joined 13 years ago http://zoologie.umh.ac.be

1 dataset 61 citations Belgium

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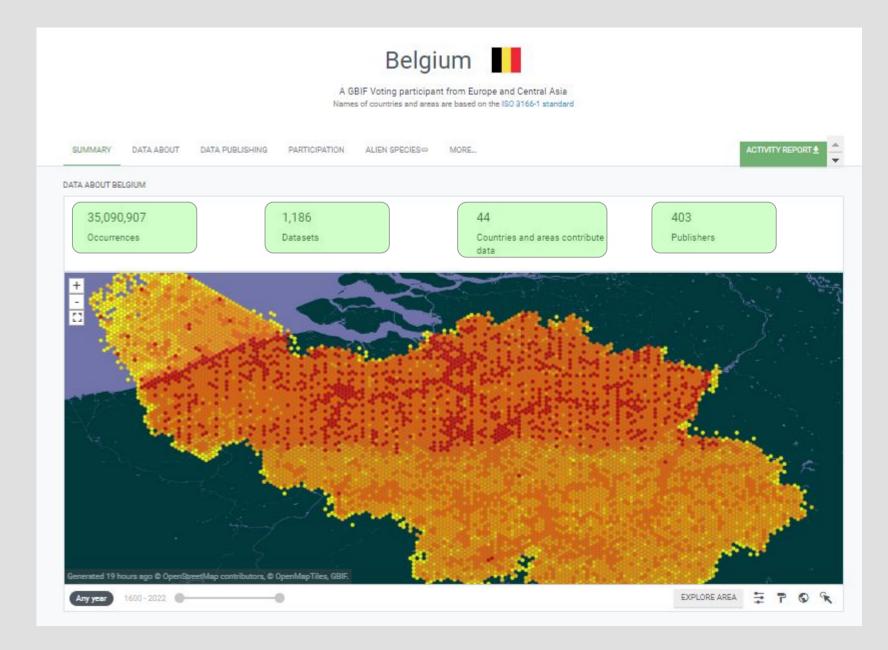
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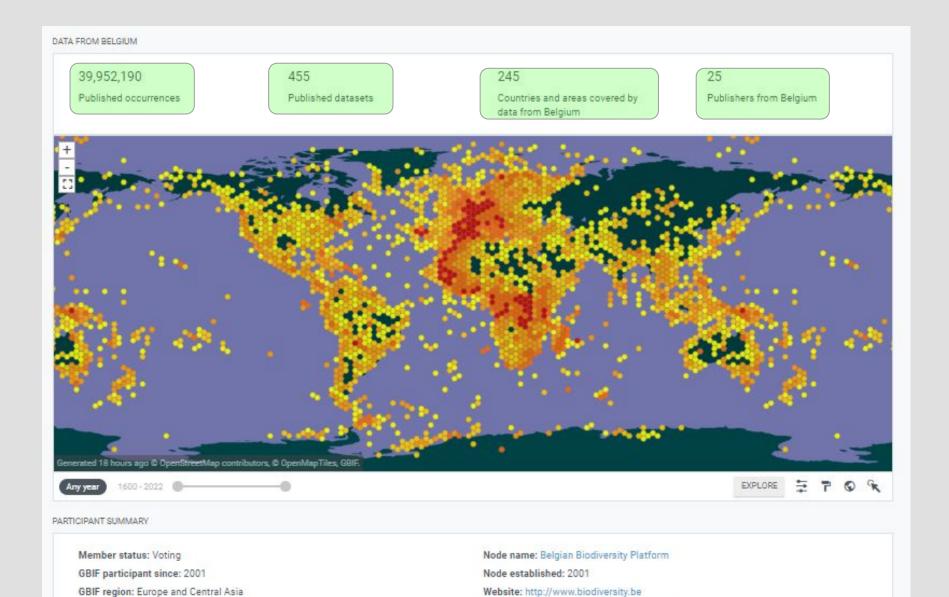
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DESEARCH INSTITUTE

NATURE AND FOREST



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Participant node manager: Dimitri Brosens

Head of delegation: André Heughebaert

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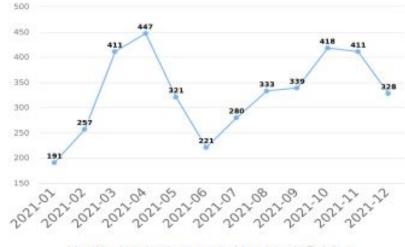
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Access and usage Data downloads on GBIF.org from users in Belgium

Users from Belgium made 3,957 download requests representing 1.6% of all downloads during 2021

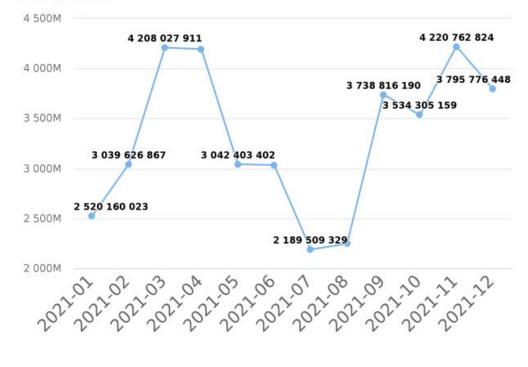


Monthly downloads requested by users in Belgium

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Occurrence records downloaded from GBIF.org, published by institutions in Belgium



Number of occurrence records downloaded via GBIF.org published by institutions in Belgium



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- 207 Peer reviewed publications on GBIF mediated data with researchers/authors from Belgium since 2000
- More than 8000 in total

Low vulnerability of the Mediterranean at Solander, 1786) to ocean warming ∞	ntipatharian Antipathella subpinnata (Ellis 8	Literature
	Angherita, T (2023) Ecological Modelling f mesophotic ecosystems in the Mediterranean Sea. The ar on as it is the most abundant and forms dense forests had	
Antipatharia • Mediterranean Sea • Mesophotic • Nick Journal article Peer-reviewed	he modelling + Physiology + Thermotolerance	
	10.15468/90drpi DOI 10.15468/ab3s5x DOI 10.	15468/jb9tdf
Low availability of functional seed trait d macroecological studies, predictive mod	lata from the tropics could negatively affect lels and plant co co	global Literature
Abstract Background Plant seeds have many traits that	-Martinez, L. Ulian, T. Diazgranados, M (2022) Annals o ti influence ecological functions, ex situ conservation, resto nown to vary significantly between tropical and temperate r	ration success and
	nal seed traits + Geographical bias + Global ecological stu:	lies +
Post-dispersal embryo growth Journal article Open access Peer-reviewed		
Data referenced in study DOI 10.15468/dLmat4zv		
Biogeography and conservation of deser warthog Phacochoerus africanus (Artiod	rt warthog Phacochoerus aethiopicus and co dactyla: Suidae) in the Horn 👓	ommon Literature
	recognised, the poorly known desert warthog Phacochoeru ricanus. Spatial data for both species were collected during	
altitudinal limits + ecological separation + rainfall limit Journal article Peer-reviewed	ts + suid + temperature limits	
Chromosome size matters: genome evol	lution in the cyperid clade 🌼	Literature
	oudová, Z (2022) Annals of Botany me size and chromosome numbers and their consequence dion in chromosome size remains poorly known. Here, we e	
Chromosome number + Cyperaceae + Juncaceae + Th Journal article Peer-reviewed	humiaceae + chromosome size + distribution range size	
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Analysis of the impact of the use of and Macaranga beillei in Côte d'Ivoire 👳	of climate on the vulnerability and availabili	ty of Literature

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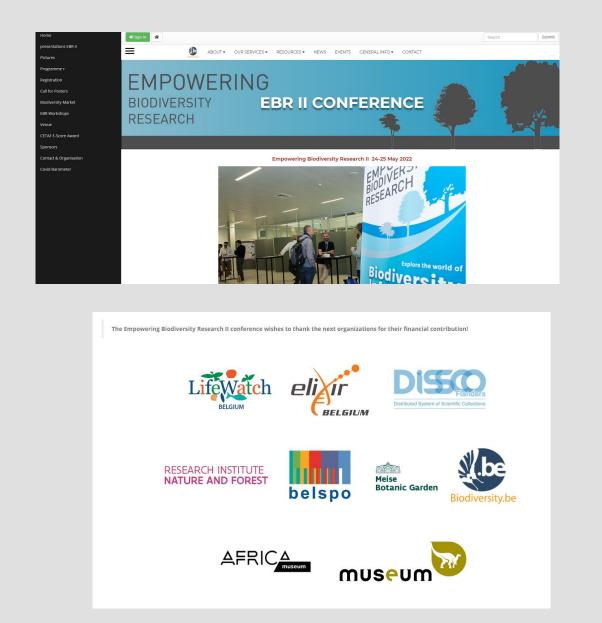
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SEARCH RESOURCES | 209 RESULTS

- Empowering Biodiversity Research conference II 2022
 - For an **scientific** audience
 - What **tools** are available
 - What **projects** have done



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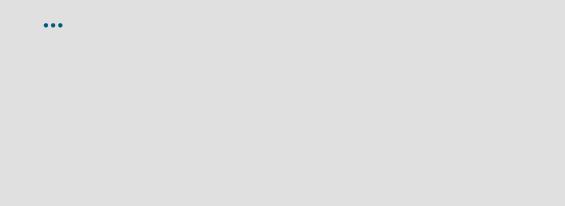
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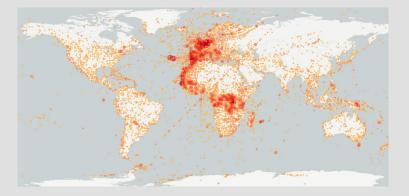
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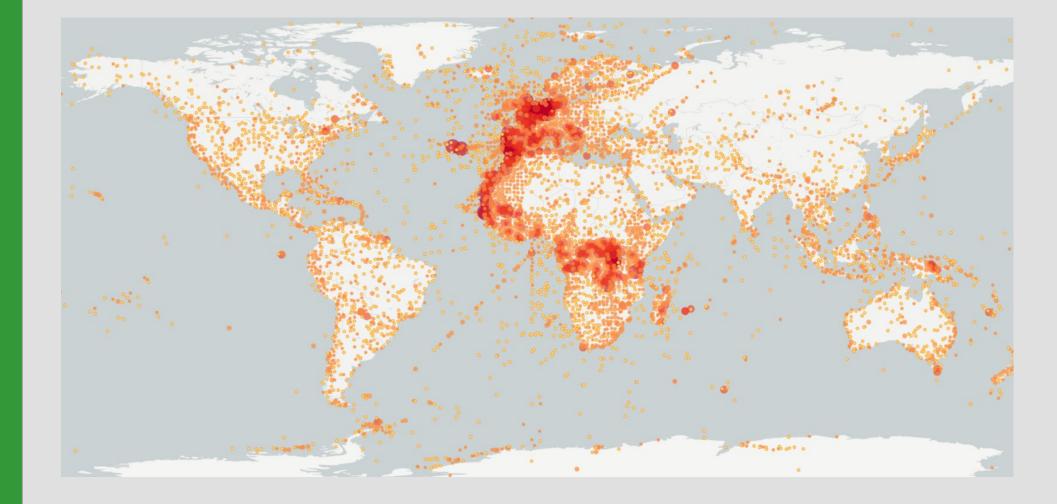
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- 35 090907 occurrences in Belgium
- 39 952190 occurrences globally from Belgium
- 25 Data publishers
- 455 published datasets
- Amazing growth in number of GBIF related projects
- More than 200 Peer reviewed articles with Belgian authors
- Increasing number of scientists dealing with biodiversity informatics
- a Belgian community on biodiversity informatics







Thank you! Thank all who published data! Thank all who is using the data! And a special thanks to the web archive!