



GBIF

Global Biodiversity
Information Facility



NBN as a global player enabling biodiversity research through GBIF

Tim Hirsch, Deputy Director, GBIF Secretariat

17TH NATIONAL BIODIVERSITY NETWORK CONFERENCE, CARDIFF, 17TH NOVEMBER 2017

NEW GBIF.ORG SITE

Get data Share Tools Inside GBIF

GBIF | Global Biodiversity Information Facility

Free and open access to biodiversity data


OCCURRENCES SPECIES DATASETS PUBLISHERS RESOURCES

Search


WHAT IS GBIF?

Sargassum (brown algae) caught by Wendy Johnson via iNaturalist. Photo licensed under CC-BY-NC


| Occurrence records | Datasets | Publishing institutions | Species |
|--------------------|----------|-------------------------|---|
| 874,501,491 | 36,968 | 1,125 | Learn more about the number of species covered by data in GBIF.org. |




New GBIF data validator provides pre-publication review of datasets
1 November 2017



Tracking the invasion of Sosnowsky's hogweed in the Komi Republic
31 October 2017



Tanya Abrahamse elected chair of GBIF Governing Board
16 October 2017



Thomas Orrell elected chair of GBIF Science Committee
16 October 2017



GBIF

BY THE NUMBERS

30 Sept 2017

Species occurrence records

856,162,238

Datasets

36,863

*Country
Participants*

54

*Organizational
Participants*

36

Publishers

1,119

Records downloaded per month (avg Jan-Oct 2017)

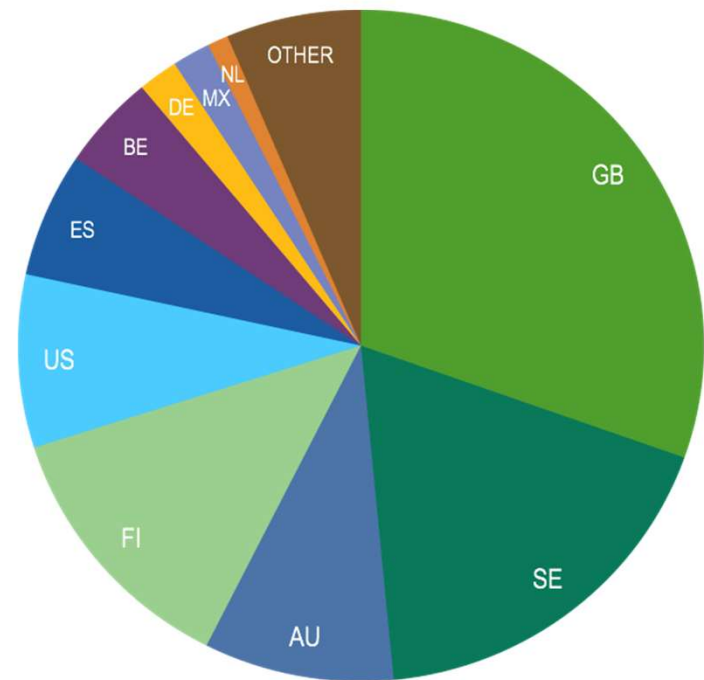
60.3 billion

User sessions (Sept-Oct avg)

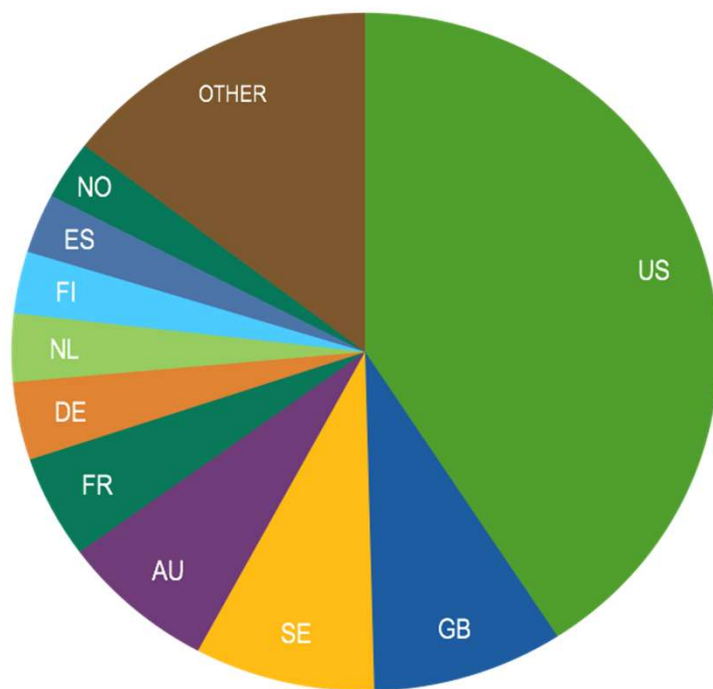
123,730

OCCURRENCE RECORDS PUBLISHED DURING 2017 BY COUNTRY AS OF 31 OCT 2017

| | Country | New records | Aug-17 rank |
|----|----------------|-------------|-------------|
| 1 | United Kingdom | 59,513,584 | 1 |
| 2 | Australia | 35,352,943 | 6 |
| 3 | Finland | 24,760,158 | n/a |
| 4 | Sweden | 17,536,154 | 3 |
| 5 | United States | 16,298,025 | 2 |
| 6 | Spain | 11,719,497 | 4 |
| 7 | Belgium | 8,929,239 | 5 |
| 8 | Germany | 3,692,654 | 8 |
| 9 | Mexico | 3,511,026 | 7 |
| 10 | Netherlands | 1,934,323 | 12 |

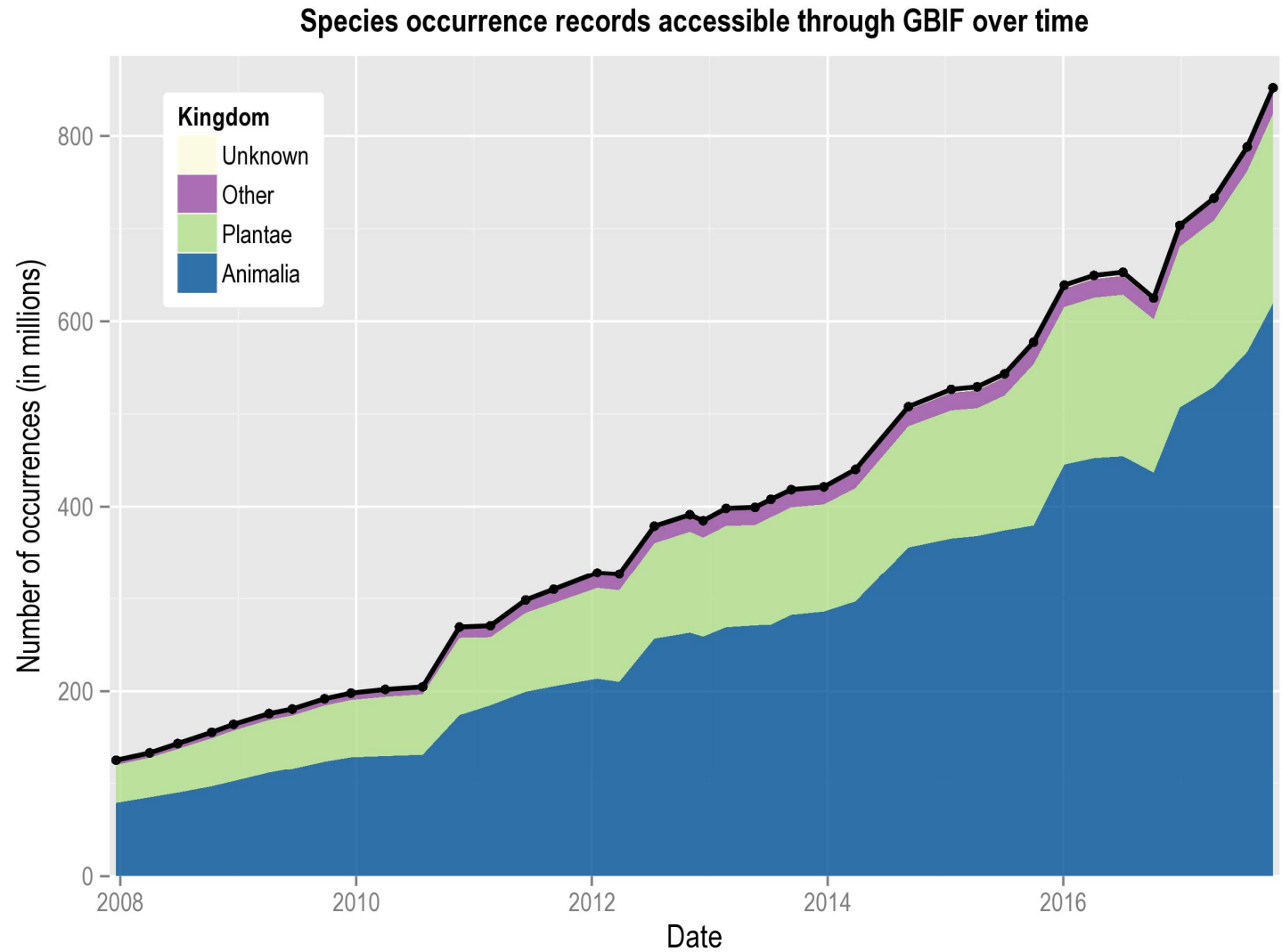


TOTAL NUMBER OF OCCURRENCE RECORDS PUBLISHED BY COUNTRY AS OF 31 OCT 2017

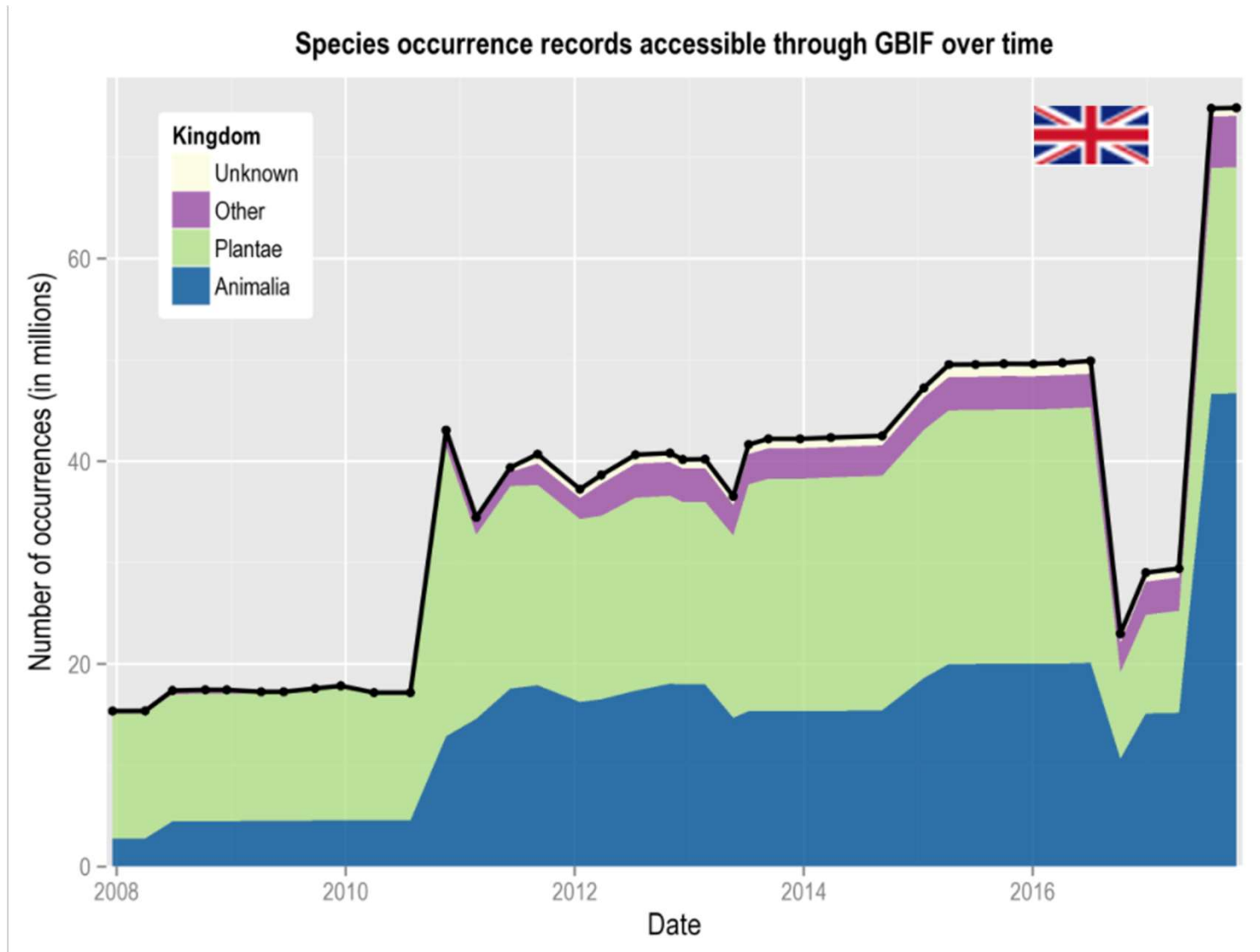


| | Country | Downloads | Aug-17 rank |
|----|----------------|-------------|-------------|
| 1 | United States | 349,631,581 | 1 |
| 2 | United Kingdom | 74,864,904 | 2 |
| 3 | Sweden | 70,707,890 | 3 |
| 4 | Australia | 60,896,329 | 5 |
| 5 | France | 41,985,004 | 4 |
| 6 | Germany | 31,823,735 | 6 |
| 7 | Netherlands | 27,852,278 | 7 |
| 8 | Finland | 25,286,057 | 21 |
| 9 | Spain | 24,394,631 | 8 |
| 10 | Norway | 23,861,209 | 9 |

DATA PUBLISHED THROUGH GBIF.ORG

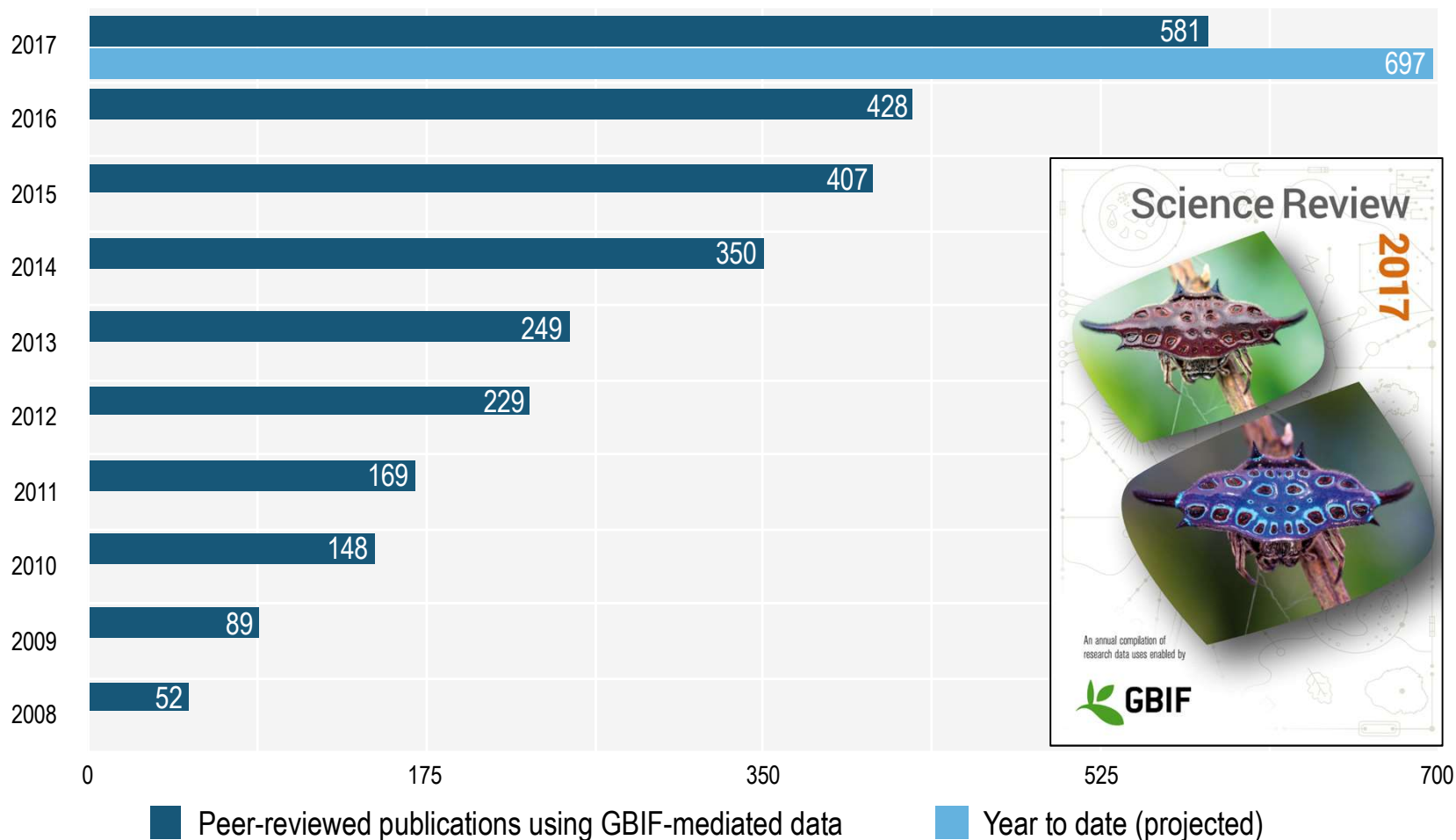


DATA PUBLISHED FROM UNITED KINGDOM



Peer-reviewed publications using GBIF-mediated data

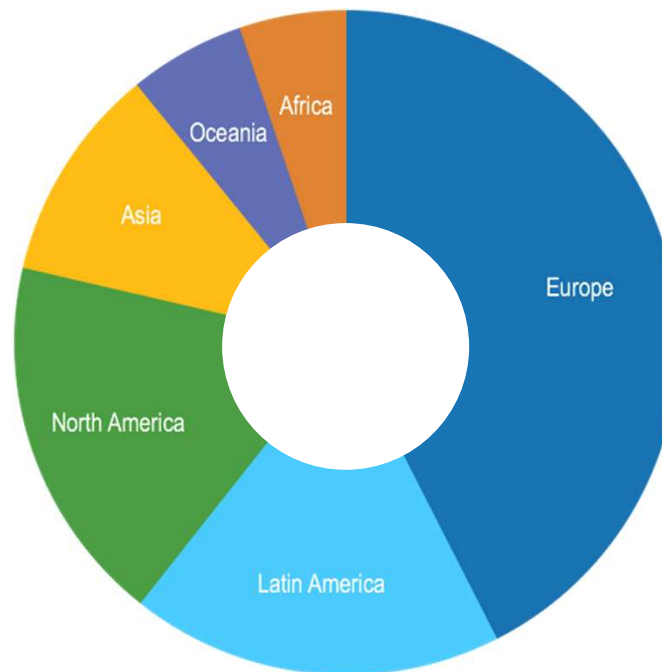
through 31 Oct 2017



PEER-REVIEWED USES, BY COUNTRY AND REGION, 2017

Total # of peer-reviewed papers by country


| | | |
|----|----------------|-----|
| 1 | United States | 158 |
| 2 | United Kingdom | 72 |
| 3 | Brazil | 64 |
| 4 | Germany | 63 |
| 5 | Spain | 54 |
| 6 | Australia | 50 |
| 6 | Mexico | 50 |
| 8 | China | 44 |
| 9 | Canada | 42 |
| 10 | France | 36 |



Total # of papers by region

| | | |
|---|---------------|-----|
| 1 | Europe | 473 |
| 2 | Latin America | 202 |
| 3 | North America | 200 |
| 4 | Asia | 117 |
| 5 | Oceania | 63 |
| 6 | Africa | 58 |

GBIF ENABLING UK RESEARCH


United Kingdom 

A GBIF Voting participant from Europe
Names of countries, territories and islands are based on the ISO 3166-1 standard.

SUMMARYDATA ABOUTDATA PUBLISHINGRESEARCHPARTICIPATION

NEWSCOUNTRY REPORT


684 FROM21 ABOUT


Owls - A guide to every species 

Literature

Taylor, M. (2017)
Discover the fascinating and mysterious world of owls with this stunning full-color, encyclopedic visual guide that explores all 225 known species, packed with maps, photographs, illustrations, informative scientific details, and a bonus 35½" x 12" accordion poster illustrated with the true-to-size ...

Book

Data used in study  [10.15468/dl.fsivcr](https://doi.org/10.15468/dl.fsivcr)


Vessel diameter is related to amount and spatial arrangement of axial parenchyma in woody angiosperms 

Literature

Morris, H. Gillingham, M. Plavcová, L. Gleason, S. Olson, M. Coomes, D. ... - (2017) Plant, Cell & Environment
Parenchyma represents a critically important living tissue in the sapwood of the secondary xylem of woody angiosperms. Considering various interactions between parenchyma and water transporting vessels, we hypothesise a structure-function relationship between both cell types. Through a generalised a...
Wood anatomy • angiosperms • climate • maximum plant height • parenchyma • precipitation

Journal Article

Peer-Reviewed


The genus Lycium as food and medicine: A botanical, ethnobotanical and historical review 

Literature

Yao, R. Heinrich, M. Weckerle, C. (2017) Journal of Ethnopharmacology
Ethnopharmacological relevance: Lycium is widely distributed in the arid to semi-arid environments of North and South America, Africa, and Eurasia. In recent years, Lycium barbarum and L. chinense have been advertised as "superfood" with healthy properties. Despite of its popularity, there is a lack...
Chinese medicine • Lycium • TCM • ethnobotany • pharmacopoeia • taxonomy


Journal Article

Peer-Reviewed

Identifying Novel Features from Specimen Data for the Prediction of Valuable Collection Trips 

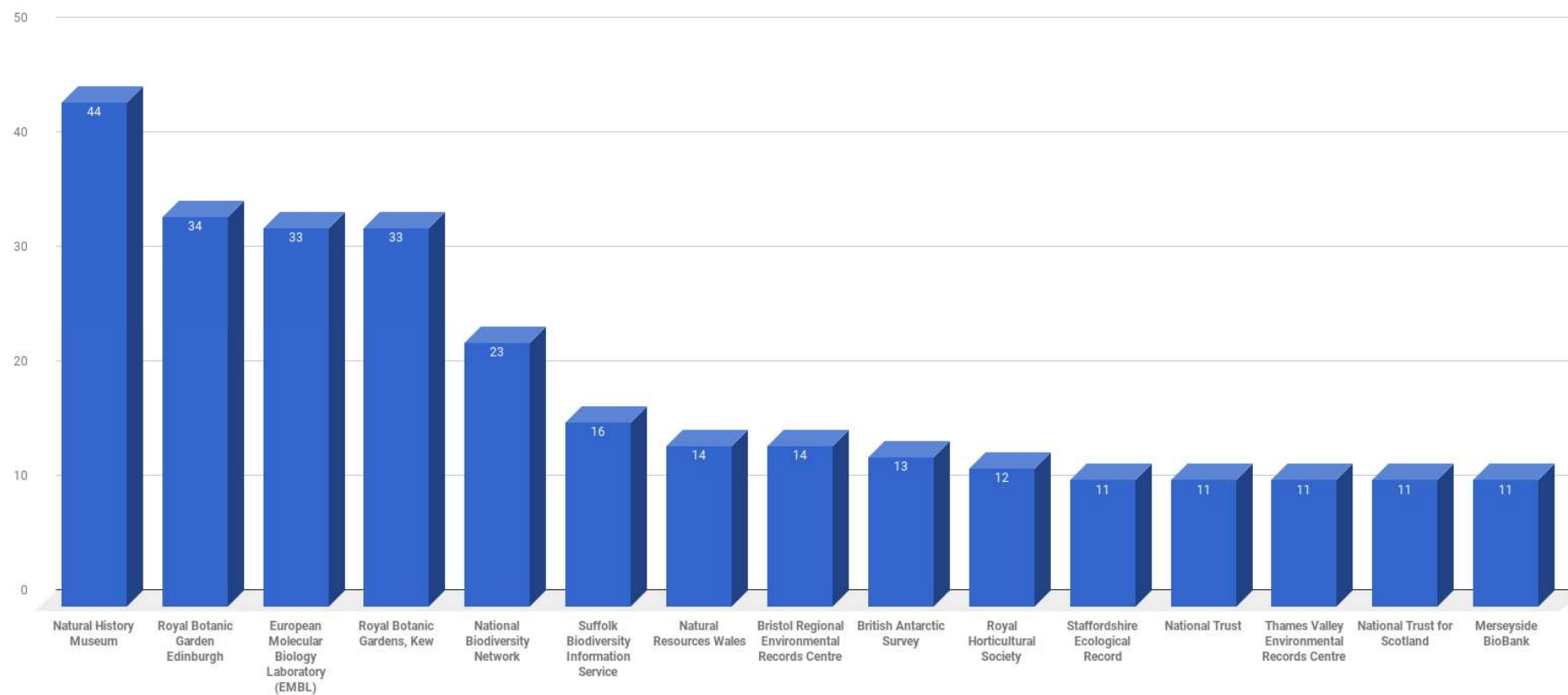
Literature

<https://www.gbif.org/country/GB/research>

 GBIF

NBN ENABLING GLOBAL RESEARCH

DOI citations - UK publishers



NBN ENABLING GLOBAL RESEARCH

PUBLISHER | SINCE 15 NOVEMBER 2016

Suffolk Biodiversity Information Service

ABOUT

PUBLISHER HOMEPAGE

2,573,320 OCCURRENCES

1 DATASET

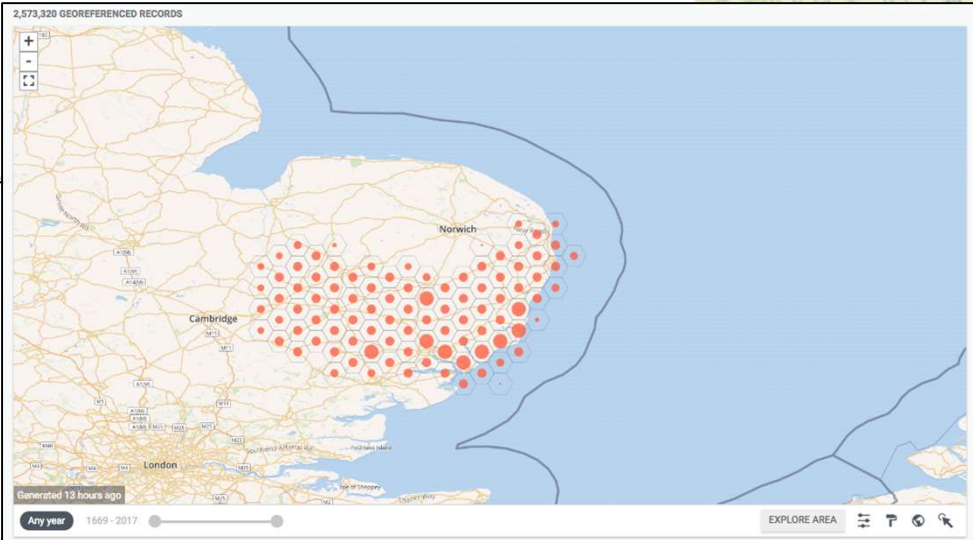
16 CITATIONS

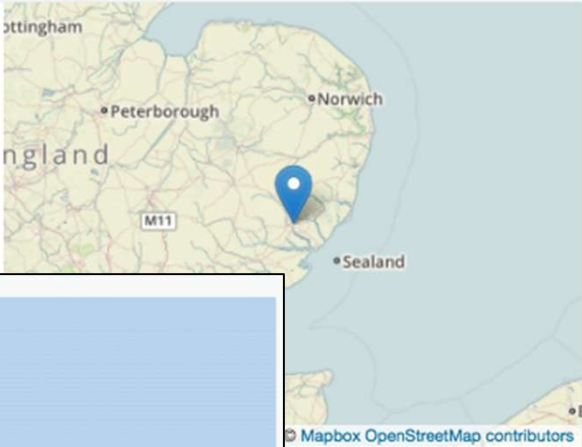
Description: The Suffolk Biodiversity Information Service is the One-Stop-Shop for biological information in Suffolk. We collate, manage and mobilise species and site information for the benefit of Suffolk's wildlife. Suffolk has many expert and amateur naturalists who share an ever-expanding database of species records for conservation, research and education. We operate the standard suite of record centre functions including storing and management of site and species records, mapping habitats and data searches. We maintain the dataset of non-statutory wildlife sites (CWS). The Service is hosted by Suffolk County Council and based in Ipswich Museum, where natural history has a long heritage. The service incorporates the work formerly undertaken by Suffolk Biodiversity Partnership.

Endorsed By: National Biodiversity Network

Country: United Kingdom

2,573,320 GEOREFERENCED RECORDS





Mapbox OpenStreetMap contributors

<https://www.gbif.org/publisher/f0edcf5c-2a34-4a6b-b9bb-44d52ed50f7a>

The GBIF logo, consisting of a stylized green leaf icon followed by the text "GBIF" in a bold, sans-serif font.

NBN ENABLING GLOBAL RESEARCH

Suffolk

ABOUT ⇌ PUBLISHER HOMEPAGE

Description: The Suffolk Biodiversity Information Service is the central hub for biodiversity data in Suffolk. We collate, manage and mobilise species and site data for wildlife. Suffolk has many expert and amateur naturalists who contribute species records for conservation, research and education. We provide functions including storing and management of site and species data, and maintain the dataset of non-statutory wildlife sites (CWS). The data is held at Ipswich Museum, where natural history has a long heritage. The Suffolk Biodiversity Partnership.

Endorsed By: National Biodiversity Network

Country: United Kingdom

Self-compatibility is over-represented on islands Literature

Grossenbacher, D. Brandvain, Y. Auld, J. Burd, M. Cheptou, P. Conner, J. ... - (2017) *New Phytologist*
Because establishing a new population often depends critically on finding mates, individuals capable of uniparental reproduction may have a colonization advantage. Accordingly, there should be an over-representation of colonizing species in which individuals can reproduce without a mate, particularl...

Baker's law • biogeography • ecological filtering • island • mainland • self-incompatibility

Journal Article | Peer-Reviewed

Data used in study DOI 10.15468/dl.oigtqo DOI 10.15468/dl.x1u7tg DOI 10.15468/dl.ynmkwo

Accounting for sampling patterns reverses the relative importance of trade and climate for the global sharing of exotic plants Literature

Sofaer, H. Jarnevich, C. (2017) *Global Ecology and Biogeography*
Aim The distributions of exotic species reflect patterns of human-mediated dispersal, species climatic tolerances and a suite of other biotic and abiotic factors. The relative importance of each of these factors will shape how the spread of exotic species is affected by ongoing economic globalizatio...

Journal Article | Peer-Reviewed

Data used in study DOI 10.15468/dl.4d4nny

Distribution, biology and habitat of the rare European osmiine bee species *Osmia pilicornis* (Hymenoptera, Megachilidae, Osmiini) Literature

Prosi, R. Wiesbauer, H. Müller, A. (2016) *Journal of Hymenoptera Research*
Osmia pilicornis is distributed from western temperate Europe to western Siberia, where it exclusively occurs in open-structured, mesophilous and mainly deciduous woodland below 1000 m a.s.l. In Central Europe, its peak activity ranges from the last third of March to the first third of June. Due to ...

Journal Article | Open Access | Peer-Reviewed

Data used in study DOI 10.15468/dl.hekosu


Reexamining *Phylloscopus trochiloides* complex as a ring species: A refugial counter-hypothesis Literature

Peterson, A. Anamza, T. (2016) *Journal of Avian Biology*
The idea of ring species has been viewed as a demonstration of the potential for species-level differentiation produced by isolation by distance in otherwise continuous populations. Although the concept is attractive, the list of empirical examples has narrowed significantly as detailed studies have...

Journal Article | Peer-Reviewed

Data used in study DOI 10.15468/dl.rcpcwo DOI 10.15468/dl.ubgqtq DOI 10.15468/dl.wytei0

16 CITATIONS



Map contributors

NBN ENABLING GLOBAL RESEARCH



JOURNAL OF A peer-reviewed open-access journal
Hymenoptera
The International Society of Hymenopterists RESEARCH

Research Article

Journal of Hymenoptera Research 52: 1-36 (28 Oct 2016)
<https://doi.org/10.3897/jhr.52.10441>

Distribution, biology and habitat of the rare European osmiine bee species *Osmia (Melanosmia) pilicornis* (Hymenoptera, Megachilidae, Osmiini)

▼ Rainer Prosi, Heinz Wiesbauer, Andreas Müller

Biologiezentrum Linz and the Global Biodiversity Information Facility database (GBIF Occurrence Download <https://doi.org/10.15468/dl.hekosu>, 14th July 2016) provided distributional data. R. Earwaker, T. Griswold, V. Mauss and I. Neff made helpful comments on earlier drafts of the manuscript.

NBN ENABLING GLOBAL RESEARCH

DOWNLOAD | 14 JULY 2016

469 occurrences downloaded

DOI 10.15468/dl.hekosu

FILTER APPLIED 14 JULY 2016

Citation: GBIF Occurrence Download doi:10.15468/dl.hekosu accessed via GBIF.org on 14 Jul 2016

License: CC BY-NC 4.0

File: 0 Bytes CSV

Involved Datasets: 13

Make sure to read the [data user agreement](#) and [citation guidelines](#).

For how long will GBIF store this data? [?](#)

And

- ☒ Scientific name Osmia pilicornis smith, 1846
- ☒ Has geospatial issue False
- ☒ Has coordinate True

SPECIES | ACCEPTED

Osmia pilicornis Smith, 1846

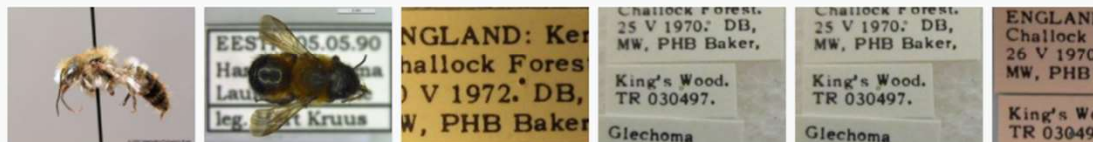
Source: Catalogue of Life

Least Concern IUCN 2014 [↔](#)

OVERVIEW REFERENCE TAXON [↔](#)

326 OCCURRENCES

14 OCCURRENCE RECORDS WITH IMAGES



318 GEOREFERENCED RECORDS



Generated 2 hours ago

Any year 1818 - 2017

EXPLORE AREA



NBN ENABLING GLOBAL RESEARCH

Research Article Journal of Hymenoptera Research 52: 1-36 (28 Oct 2016)
https://doi.org/10.3897/jhr.52.10441

Distribution, biology and habitat of the rare European osmiine bee species *Osmia (Melanosmia) pilicornis* (Hymenoptera, Megachilidae, Osmiini)

▼ Rainer Prosi, Heinz Wiesbauer, Andreas Müller



INCLUDES RECORDS FROM 13 DATASETS

| | |
|--|-----|
| South East Wales Biodiversity Records Centre - CCW Regional Data : South East Wales Non-sensitive Species Records | 1 |
| Artdata | 203 |
| Bees, Wasps and Ants Recording Society - Bees, Wasps and Ants Recording Society - Trial Dataset | 203 |
| Naturkundemuseum im Ottoneum Kassel, Entomological Collection | 3 |
| Natural England - Invertebrate Site Register - England. | 26 |
| Entomological Collections (NHRS), Swedish Museum of Natural History (NRM) | 1 |
| Snow Entomological Museum Collection | 9 |
| Hymenoptera collection of the Finnish Museum of Natural History | 2 |
| Wiltshire and Swindon Biological Records Centre - Wiltshire & Swindon Site-based Survey Records | 5 |
| Countryside Council for Wales - Welsh Invertebrate Database (WID) | 7 |
| Suffolk Biological Records Centre - Suffolk Biological Records Centre (SBRC) dataset | 2 |
| Zoologische Staatssammlung Muenchen - International Barcode of Life (iBOL) - Barcode of Life Project Specimen Data | 3 |
| Nottinghamshire Biological and Geological Records Centre - UK abstract from Nottingham City Museums & Galleries (NCMG) | 4 |

DIOLCH YN FAWR IAWN!

thirsch@gbif.org