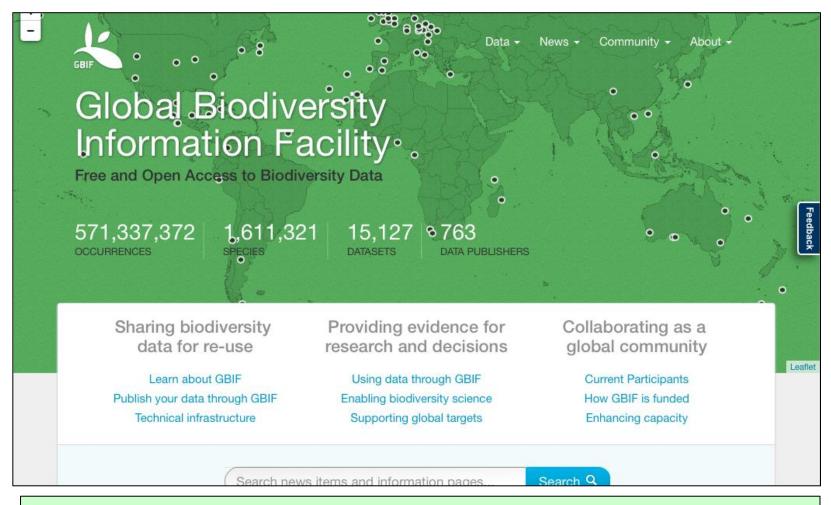


UNLOCKING BIODIVERSITY DATA FROM ENVIRONMENTAL IMPACT ASSESSMENT

Tim Hirsch, Deputy Director Siro Masinde, Programme Officer for Content Mobilization GBIF Secretariat

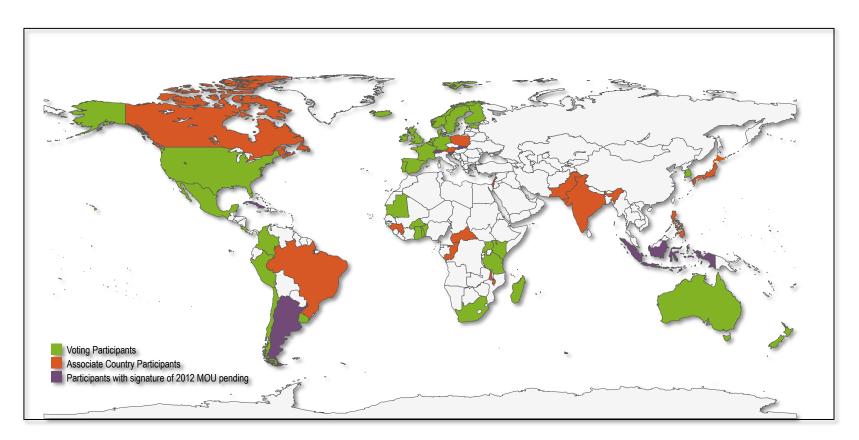
WHAT IS GBIF?



A window on biodiversity evidence over time, informing research and decisions www.gbif.org



COUNTRIES PARTICIPATING IN GBIF

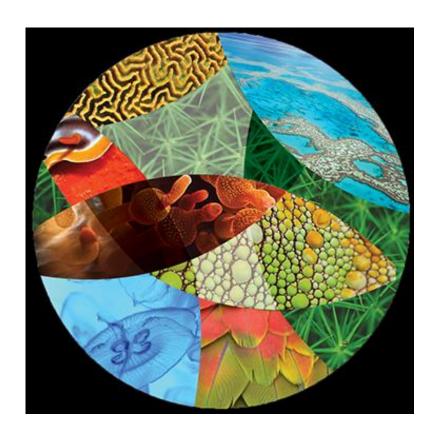


- 54 countries, 39 international organizations
- Each Participant signs GBIF non-binding Memorandum of Understanding
- Network of 'nodes' coordinate mobilization of data and collaborate



TYPES OF DATA SHARED THROUGH GBIF

- Species occurrence records (what, where, when, how, by whom?)
- Checklist data (names)
- Sample-based data
- Metadata





SOURCES OF DATA SHARED THROUGH GBIF

Collections from museums and herbaria



Research projects, surveys, inventories

> Citizen science observations

> > Data extracted from literature



Naturalist.org Observations - Species - Projects - Places - Guides People





About Life!



Explore!

Add Observations!

Mr. Winch's Flora of Northumberland, &c.

84; Conferus corallins, Dillwyn, 1815; Lightfoot, 988. Hartley, and at Newbiggin, N. In Whitburn, D.

- C. fucicola.
 Gr. Fl. Eds. 316; Dillwyn, t. 66; Berwick Flora,
 ii. 253.
 Parastical on Fucus nodorus and F. vesiculorus.



GBIF BY THE NUMBERS

570,238,233 species occurrence records

15,073 datasets

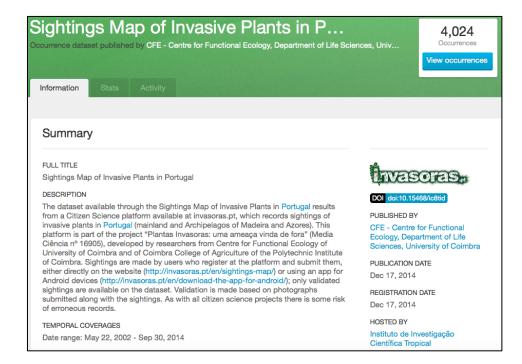
762
data publishing institutions





WHY SHARE DIGITAL DATA?

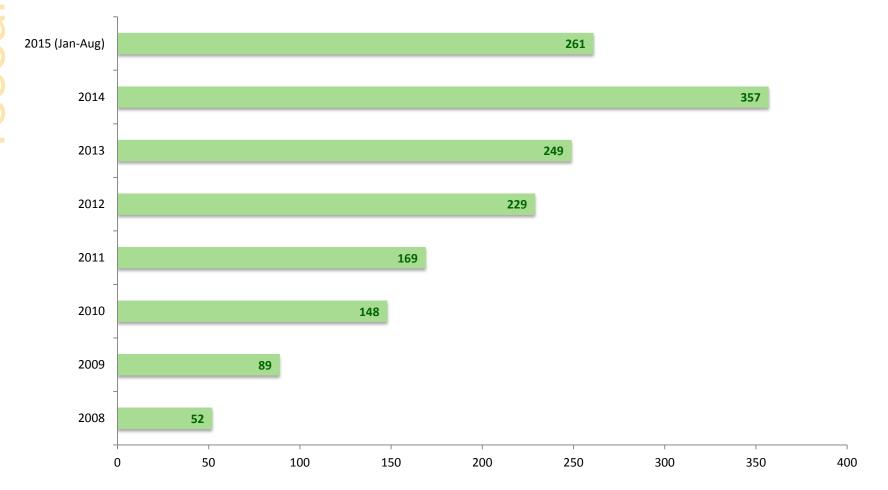
- Visibility, credit for institutions, projects
- Compliance with open data principles, regulations
- Preservation and persistence of data for future re-use
- Contribution to Aichi Targets (Target 19)





CITATIONS IN PEER-REVIEWED RESEARCH

Annual number of peer-reviewed publications using GBIF-mediated data





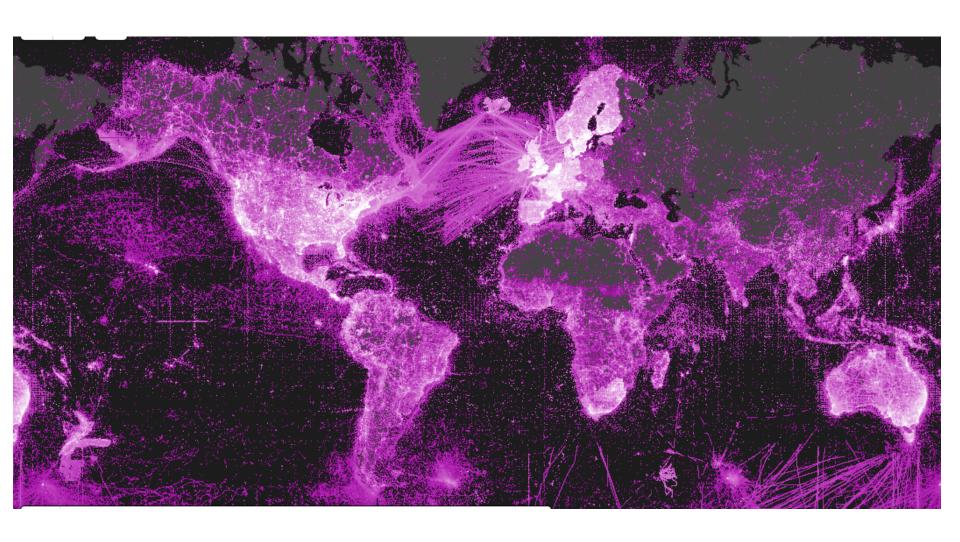
USE OF SHARED DATA IN RESEARCH



- Invasive alien species
- Impacts of climate change
- Conservation priorities (protected areas, threatened species)
- Agriculture and food security (e.g. crop wild relatives)
- Human health (e.g. disease vectors)
- Understanding of biodiversity patterns (biogeography, macroecology, phylogenetics)

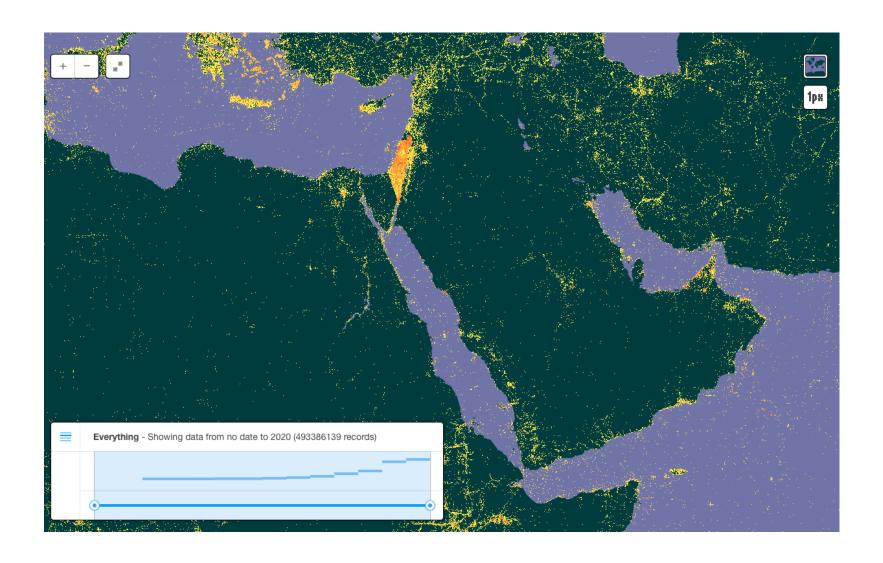


DISTRIBUTION OF DATA





DISTRIBUTION OF DATA





'REPATRIATION' OF DATA

Oman

Names of countries, territories and islands are ba

Summan

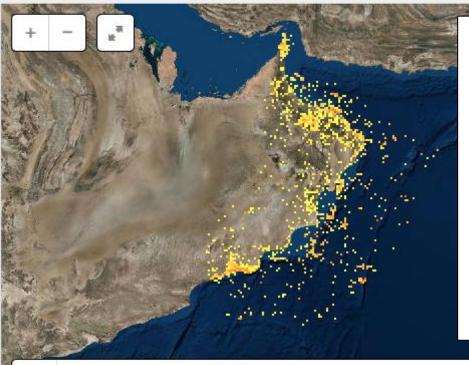
Data About

Data Publishin

Countries, territories or islands publishing data about Oman

- Germany 53,016 occurrences, 99.09% geo-referenced.
- United States 34,569 occurrences, 76.74% geo-referenced.
- United Kingdom 20,896 occurrences, 25.15% geo-referenced.
- Netherlands 9,223 occurrences, 15.29% geo-referenced.
- France 1,606 occurrences, 76.71% geo-referenced.
- Australia 1,595 occurrences, 53.86% geo-referenced.

View all 23 results...



Largest occurrence datasets about Oman

- Neptune Deep-Sea Microfossil Occurrence Database 13,074 occurrences in Oman out of 500,808 (2.61%).
- EOD eBird Observation Dataset
 12,999 occurrences in Oman out of 153,532,169 (0.01%).
- Royal Botanic Garden Edinburgh Herbarium (E) 8,101 occurrences in Oman out of 714,041 (1.13%).
- Naturalis Biodiversity Center (NL) Mollusca 6,687 occurrences in Oman out of 627,220 (1.07%).
- NODC WOD01 Plankton Database
 6,042 occurrences in Oman out of 1,279,056 (0.47%).
- Natural History Museum (London) Collection Specimens 5,873 occurrences in Oman out of 2,401,794 (0.24%).





UNLOCKING THE PAST

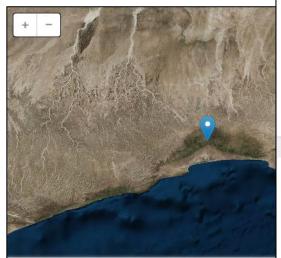
http://specimens.kew.org/herbarium/K000846471

Specimen of Ormocarpum dhofarense Hillc. & J.B.Gillett recorded on Oct 1, 1943

from Royal Botanic Gardens, Kew - Herbarium Specimens dataset

Information

Verbatim



Leaflet | Esri, DeLorme, FAO, NOAA, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, Assisstopo, and the GIS User Community

GEOGRAPHIC CLASSIFICATION

Oman

HABITAT

Hillside in Monsoon forest

GEOREFERENCING

PROTOCOL

label

Occurrence details

RECORDED

Oct 1, 1943 12:00:00 AM by Fitzgerald, D.V.

REMARKS

No. 12360/2

A many-stemmed shrub, corolla yellow

RECORD NUMBER

12360

Source details

DATA PUBLISHER

Royal Botanic Gardens, Kew

INSTITUTION CODE

k

DATASET

Royal Botanic Gardens, Kew - Herbarium Specimens

COLLECTION CODE

Herbarium

BASIS OF RECORD

Specimen

OCCURRENCE ID

http://specimens.kew.org/herbarium/Kl

GBIF ID

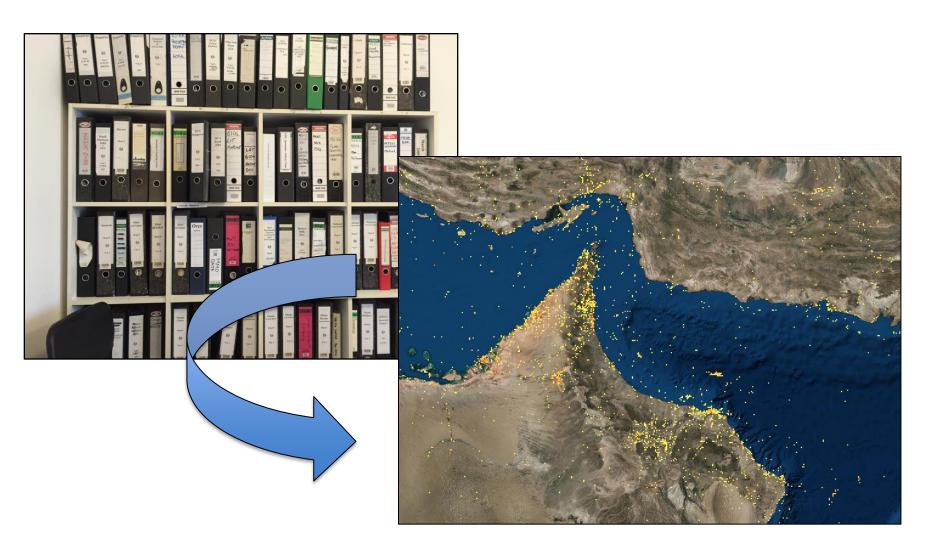
912638926

CATALOG NUMBER

K000846471



UNLOCKING THE PRESENT AND FUTURE

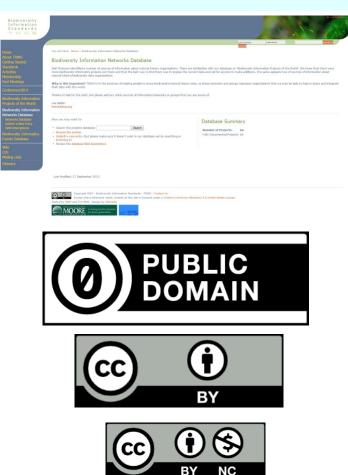




PROJECT AIM

Preserve data in standard format, share openly, re-use to benefit biodiversity science, conservation and future decisions

- Preserve primary biodiversity data from EIAs in standard digital formats that enable them to be shared and reused in future.
- Adding such data to publicly accessible datasets will benefit biodiversity science, conservation and future decisions based on EIA.
- Benefits to NBSAPs

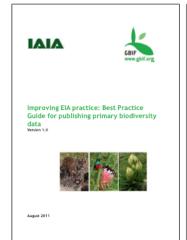




BACKGROUND

Past GBIF & IAIA partnership on improving best practice for publishing primary biodiversity data

Project builds on previous work to demonstrate to EIA consultants, regulators and private sector clients how publishing EIA-derived datasets through open digital platforms such as www.gbif.org can add greatly to their value by unlocking information for wider application in research and decision making.







PROJECT FOCUS

Promote data sharing among EIA stakeholders in GCC / West Asia

- 1. Workshop to demonstrate tools and best practices in biodiversity data publication
- Pilot data repository to provide a platform for consultants, regulators and clients
- 3. Updated Best Practice Guide with a stepby-step explanation of the process of data publication and use
- Distance-learning platform enabling self training in biodiversity data publication and use







FUNDING AND PARTNERSHIP

Seed funding from AGEDI under the Eye on Earth Initiative supporting a partnership led by GBIF







Environment Agency - ABU DHABI







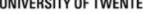














THANK YOU

شكرا

GBIF.ORG

