



EUDAT User Forum London 11-12 March 2013

Metadata in the GBIF network

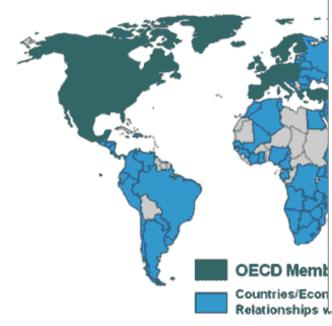
Éamonn Ó Tuama Senior Programme Officer Global Biodiversity Information Facility (GBIF)

The OECD origin...



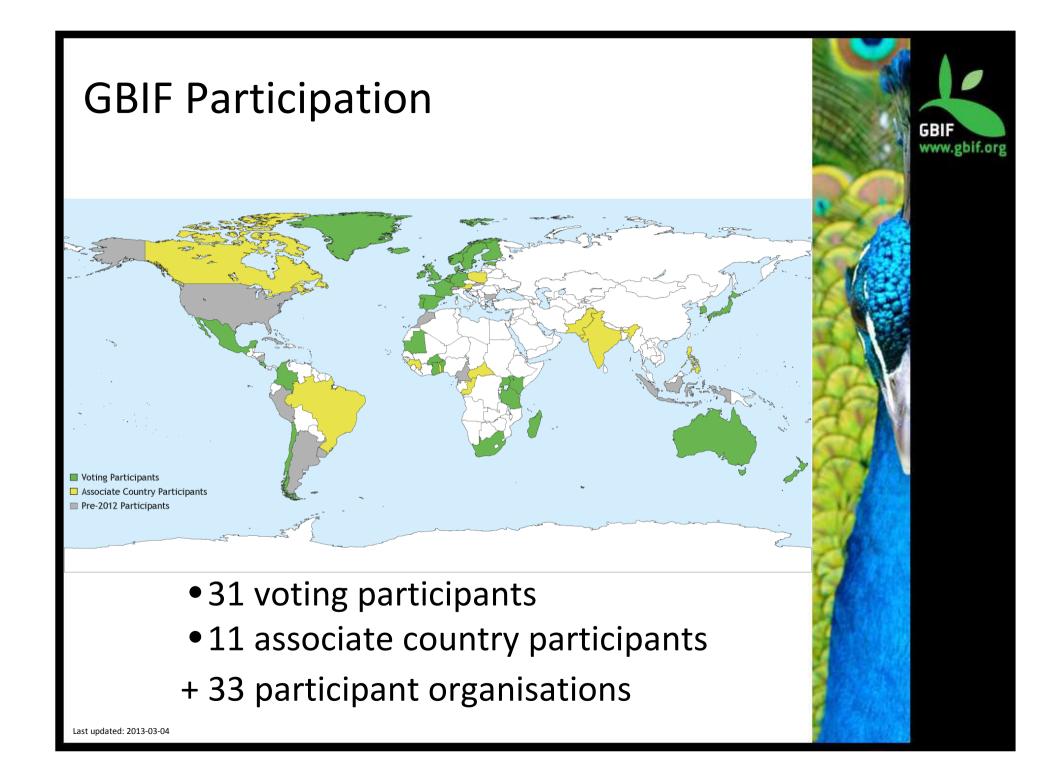
OECD Global Science Forum recommendation (1999): "Establish and support a distributed system of interlinked and interoperable modules (databases, software and networking tools, search engines, analytical algorithms, etc.) that together will form a Global Biodiversity Information Facility (GBIF)"





"This facility will enable users to navigate and put to use vast quantities of biodiversity information, thereby:

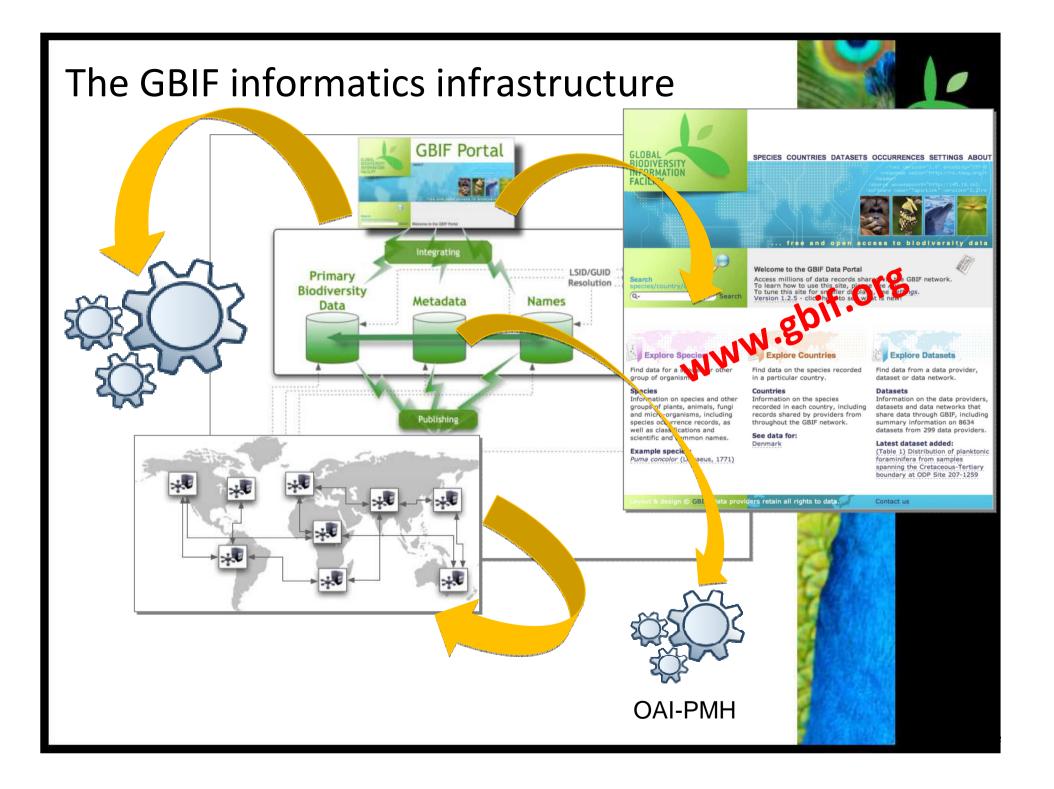
- advancing scientific research...
- serving the economic...
- providing a basis from which our knowledge of the natural world can grow rapidly..."

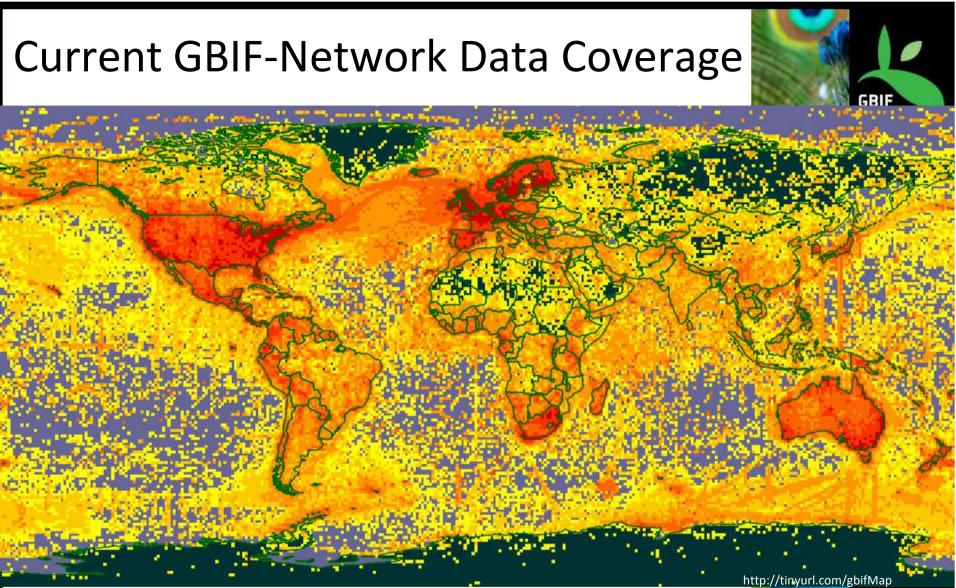


What does GBIF do?

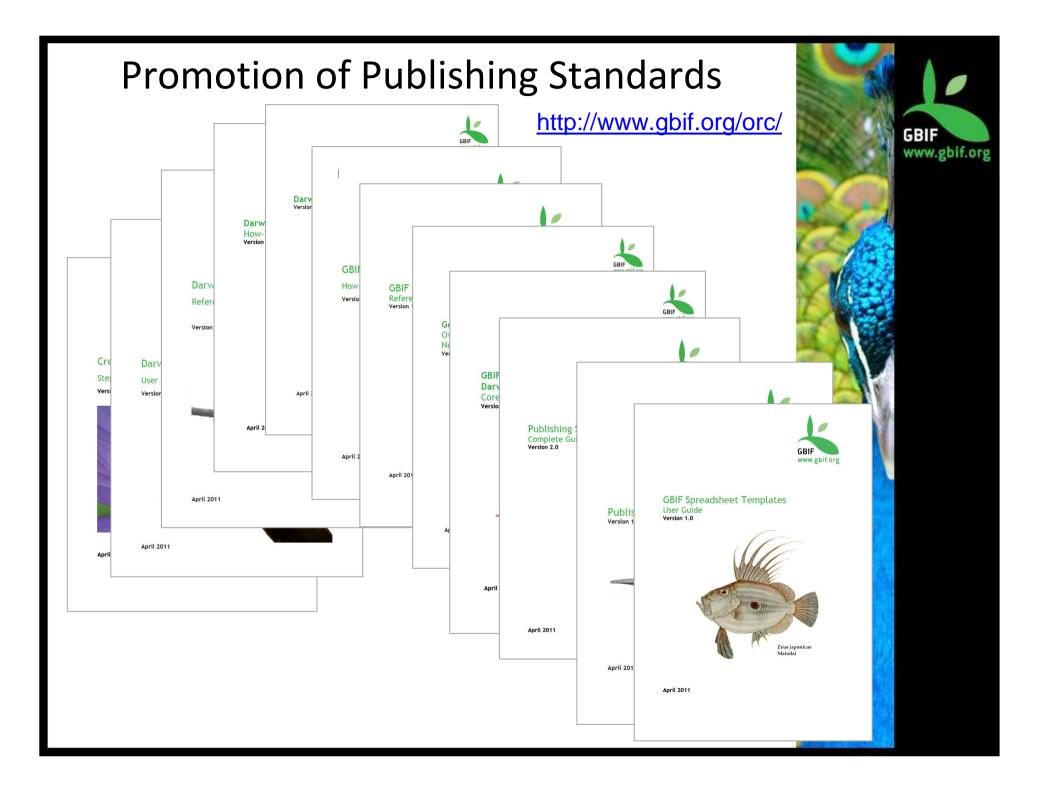
- Builds a global informatics infrastructure for biodiversity science
- Supports and promotes common standards for data capture and sharing
- Promotes global participation, capacity building
- Encourages and enables publication of data on biodiversity (manuals, training, collaboration between participants)







As of March 2013: **396,026,747** indexed records from **10,004** datasets from **464** publishers and spanning a wide range of geospatial, temporal and taxonomic coverages. Count / one degree cel 1 - 9 10 - 99 100 - 999 1000 - 9999 10000 - 99999 100000+



Darwin Core – a glossary of terms

Biodiversity Information Standards TDUC



continent taxonRank basisOfRecord kingdom institutionCode scientificNameID family institutionID vernacularName coordinatePrecision recordedBy taxonID verbatim TaxonRank originalNameUsagenomenclaturalCode nameAccordingTo higherClassification namePublishedInID classparentNameUsage occurrenceID originalNameUsageIDnameAccordingToID order higherGeographyID associated Taxa verbatimCoordinateSystem datasetID minimumElevationInMeters coordinateUncertaintyInMeters parentNameUsageID infraspecificEpithet acceptedNameUsageID genus scientificNameAuthorshipbehavior collectionCodepreviousIdentifications maximumDepthInMeters taxonConceptID geodeticDatumreproductiveCondition decimalLongitude namePublishedIn phylum catalogNumber acceptedNameUsage nomenclaturalStatus taxonRemarks specificEpithet higherGeography decimalLatitude subgenus taxonomicStatus scientificName islandGroup lifeStage locationID collectionID waterBody

associatedSequences: A list (concatenated and separated) of identifiers (publication, global unique identifier, URI) of genetic sequence information associated with the Occurrence.



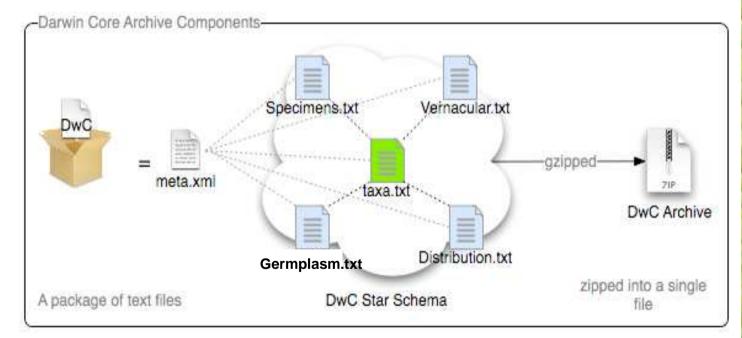
Darwin Core Archive (DwC-A)

A package of DwC records including extensions

GBIF

www.gbif.org

- Simple text based format
- Zipped single file archive



+ metadata file in Ecological Metadata Language format

Logged in as trobertson@gbif.org Account Logout



Resource Title Animal Observations in Amboseli Demo

Basic Metadata

The resource title and description are required. The resource's three main contact's must also be described here: Resource contact, resource creator and metadata provider. For each contact you must supply at least a last name, a position or an organisation before you can make the resource public. The person(s) or organisation(s) responsible for the creation of the resource as it appears in the IPT and for effectively publishing the resource should add themselves as an associated party with role 'publisher'.

Title*

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Animal Observations in Amboseli Demo

Description*

A set of animal observations made in Amboseli National Park, Kenya in February 2013.

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Meta	Idata	Lang	uage

	English
Тур	be

Occurrence

Resource Language		
	English	
c	htuno	

Sui	otype
	Select a subtype

Resource Contact

First Name Kyle

Last Name* Braak

Position*

Address

Organisation* GBIF

City

Section

Basic Metadata

gbif.org

Geographic Coverage Taxonomic Coverage Temporal Coverage Keywords **Associated Parties** Project Data Sampling Methods Citations Collection Data

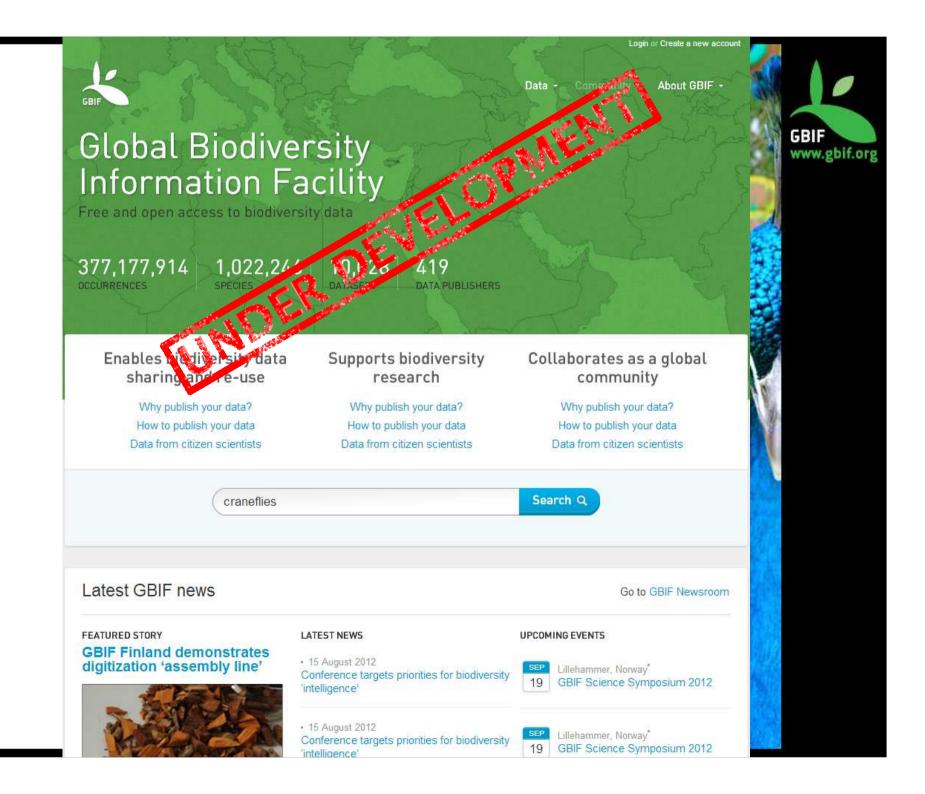
External links

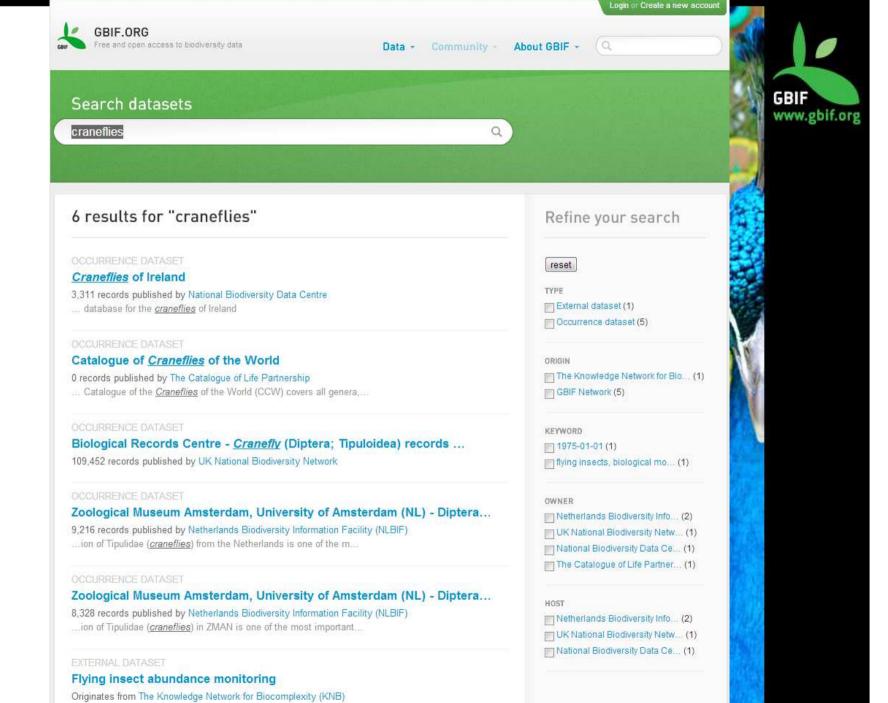
Additional Metadata

Output __in RTF for Data Paper

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Search matched Cached EML

Activity Discussio

Summary

FULL TITLE

Craneflies of Ireland

DESCRIPTION

A complete database for the craneflies of Ireland

Stats

ADDITIONAL INFORMATION

P. Ashe, J. P. O'Connor, K. N. A. Alexander, P. J. Chandler and P. Oosterbroek. Additions, with some corrections, to the records of the craneflies of Ireland (Diptera: Cylindrotomidae, Limoniidae, Pediciidae and Tipulidae): pp 6-20. P. Ashe, J. P. O'Connor, P. J. Chandler, A. E. Stubbs, R. I. Vane-Wright and K. N. A. Alexander. The craneflies (Diptera) of Ireland. Part 5. Tipulidae: pp 296-357.

LANGUAGE OF DATA

ENGLISH

PRIMARY CONTACTS

ORIGINATOR

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+

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PUBLISHED BY National Biodiversity Data Centre

LINKS

Dataset homepage

ALTERNATIVE IDENTIFIERS

- GBIF Portal ID http://data.gbif.org/datasets/...
- Alternative Identifier CranefliesOffreland

EXTERNAL DATA

- Darwin Core Archive
- METADATA DOCUMENTS
- GBIF EML
- Cached EML



3,311 Georeferenced occurrences





Stable Metadata Schema

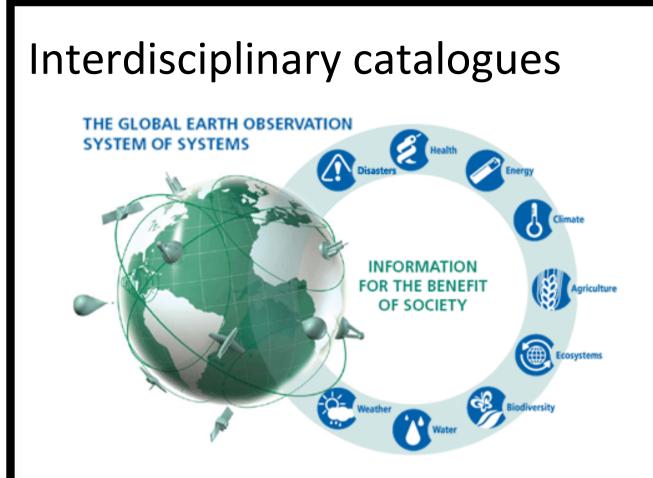
← → C 🗋 rs.gbif.org/schema/eml-gbif-profile/1.0.2/



GBIF EML Profile: <u>http://rs.gbif.org/schema/eml-gbif-profile/1.0.2/</u>

EML specification: <u>http://knb.ecoinformatics.org/software/eml/eml-2.1.1/index.html</u>





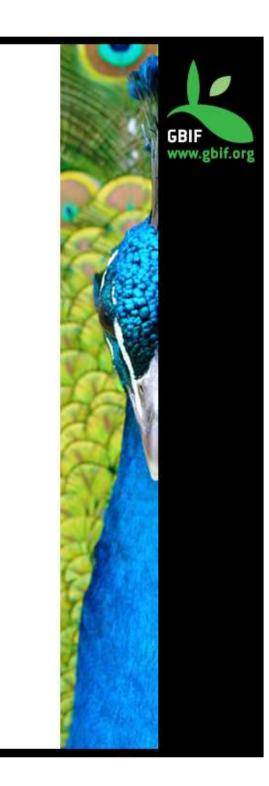
- Registries and catalogues are key components of the GEOSS Common Infrastructure
- Supporting several GEOSS Societal Benefit Areas



Main Facets

- Taxonomic
- Spatial
- Temporal
- Institutional
- Keywords

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Thank you



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