COBIF Global Biodiversity Information Facility

SECRETARIAT UPDATE European Nodes Regional

Mooting

Meeting

Kyle Copas Communications Manager

> Tallinn, Estonia 14 May 2018

OVERVIEW



- Refresher on GBIF 2017-2021
 Strategic Plan
- Summary of current activities on 2018 Work Programme, with highlights of key initiatives
- A provocation or two for the future

Detailed, line-by-line set of background slides available at

bit.ly/gbif-wp18q2

Ensure that governments, researchers and users are equipped and supported to share, improve and use data through the GBIF network, regardless of geography, language or institutional affiliation



2

ENHANCE BIODIVERSITY INFORMATION INFRASTRUCTURE

Provide leadership, expertise and tools to support the integration of all biodiversity information as an interconnected digital knowledgebase





Prioritize and promote mobilization of new data resources that combine with existing resources to maximize the coverage, completeness and resolution of GBIFmediated data, particularly with respect to taxonomy, geography and time



IMPROVE DATA QUALITY

Ensure that all data within the GBIF network are of the highest-possible quality and associated with clear indicators enabling users to assess their origin, relevance and usefulness for any application



Ensure that GBIF delivers data in the form and completeness required to meet the highest-priority needs of science and, through science, society



QUARTERLY DEVELOPMENT PRIORITIES

gbif / portal16 O Unwatch → 13	Instar 10 § Fork 6
<> Code ① Issues 237 ① Pull requests 1 Projects 0 III Wiki III Insights	
2018 Q2 © Due by June 30, 2018 38% complete Tasks that are a priority to get done by june 2018	dit milestone New issue
□ ① 11 Open ✓ 7 Closed	
 translate - find way to load locales in client depending on env and language release focus #754 opened 28 days ago by MortenHofft 	
E ○ ③ Create items in Contentful (similar to what we do for participants) blocked release focus #747 opened 29 days ago by MortenHofft	
 Itranslation: moment should load custom for locales release focus #744 opened 29 days ago by MortenHofft 	Ç 1
 Indexet download stats api blocked dataset impact high release focus #563 opened on Sep 26, 2017 by MortenHofft 	
 OTUs in GBIF release focus #743 opened 29 days ago by MortenHofft R 3 of 7 	0
 translation - changing translation source release focus #734 opened on Apr 11 by MortenHofft 	
 translation - locale vs number format release focus #727 opened on Apr 11 by MortenHofft 	
Personalisation release focus secretariat idea #726 opened on Apr 11 by MortenHofft R of 6 a	9 🤍
 Network pages release focus #725 opened on Apr 11 by MortenHofft 4 of 18 	Ģ 1
 translation: clarify possible occurrence field keys release focus #723 opened on Apr 10 by MortenHofft 	Ç 1
 translations Idea release focus #721 opened on Apr 9 by MortenHofft	1 🖓 🖓

- New quarterly roadmaps for informatics & data products teams in CPH
- Publicly accessible through GitHub
- 'portal16' is one of dozens of project repositories where you can track (and also contribute to) the work of the GBIF Secretariat



1a. Focus on people

Management tools

- Collection of utilities for data managers familiar with the GBIF data management processes and standards
- Trigger actions like crawling, IPT synchronization, and deletion of overcrawled data

gbif / management-to	ools		⊙ Watch - 8	★ Star 0 % Fork
Code 🕕 Issues 4	11 Pull requests (0)	Projects 0 💷 Wiki	II Insights	
ools for data managers of	GBIF.org			
(7) 51 commits	1/2 1 branch	♥ 0 releases	3 contributors	傘 Apache-2.0
Branch: master - New pull	request	•	Create new file Upload files F	ind file Clone or download
MattBlissett Use normal AP	1 rather than crawler.gbif.org		L	atest commit a483831 on Apr 1
in conf	remove depdency on d	eprecated webpack-fail-plugi	n as it broke shrinkwrap	5 months ag
gulp_tasks	initial commit			5 months ag
src .	Use normal API rather	than crawler.gbif.org		a month ag
editorconfig	initial commit			5 months ag
gitattributes	initial commit			5 months ag
.gitignore	remove unused. update	e gitignore		5 months ag
🖹 .yo-rc.json	initial commit			5 months ag
LICENSE	Initial commit			5 months ag
README.md	remove depdency on d	eprecated webpack-fail-plugi	n as it broke shrinkwrap	5 months ag
gulpfile.js	initial commit			5 months ag
E Anbuiete				C
npm-shrinkwrap.json	remove depdency on d	eprecated webpack-fail-plugi	n as it broke shrinkwrap	5 months ag

management-tools

Tools for data managers of GBIF.org

This project is a collection of utilities for data managers inside and outside of the GBIF Secretariat. The tools help managers prioritise effort by providing an overview and also triggering actions such as crawling or deletion of overcrawled data.

These tools target users who are familiar with the GBIF data management processes and standards, including experts throughout the GBIF network. The toolset aims to include:

- 1. The current running crawls monitor (replacing https://crawler.gbif.org)
- 2. The summary of over crawled datasets
- 3. The IPT synchronisation state for any IP
 - 4. The synchronisation state of a Living Atlas when run as a gateway for publishign to GBIF (e.g. Oz, UK)
- 5. The crawl history of a dataset
- 6. The crawl logs (ELK)

Running the project

Requirement Node 6.12.2 && NPM 3+

This generator is targeted to be used with Node >= 6.0.0 and NPM => 3.0.0. You can check your version number with the

1a. Focus on people

Personalization

- Preparing expanded user profile
- Leverage ORCIDs to link opt-in users (esp. from nodes) with datasets (as contributor, publisher or host), badges, research papers, occurrences et al.
- Builds on implementation of 'trusted contacts' for management tools

hoefft Jorten Hoefft			
PROFILE DOWNLOADS D DOWNLO	AD		
			Public profile
FIRST NAME Morten		LAST NAME Hoefft	
EMAIL mhoefft@gbif.org		Denmark	
(*)			
0	Ħ		
23.802 occurrences In 3 datasets	2 Datasets Datasets that you helped create	12 published datasets With you as publisher	19 hosted datasets On 1 installation
CORDS BY	neipeu Créate		



Other items worth consider, imho, include:

All opt-in users

* [] ORCID

- * [] Institutional affiliations
- * [] Project affiliations (CESP, BID, BIFA)
- * [] GBIF-related publications (via literature tracking and/or ORCID)
- * [] GBIF featured data uses

Network members (esp. node managers)

- * [] GBIF network and committee roles and assignments
- * [] GitHub profile/contributions/issues/assigned-issues
- * [] Events attended

Data holders

- * [] Dataset stats/metrics, as above—including download activity, too, perhaps?
- * [] GitHub profile/issues/assigned-issues
- * [] Events attended

Biological knowledge experts

* [] Described species (long-term: claim via COL+?)

Science ambassadors could introduce other fields, too, in consultation w/ @dschigel

1a. Focus on people

GBIF Community Forum

K GBIF				Q ≡ 🧯
all categories Latest Top Categories				+ Open Drat
Category	Topics	Latest		
Data Publishing For matters related to data publishing in GBIF.	1 / month	Powe	rpoint slides updated les	(30
Data Use This category is for matters related to use of GBIF-mediated data.	4 / month	2018	European Nodes meeting les	(40
Mentors	1 / month	Firs	t stop for new data users Jse	1
A Nodes	2 / month	Citatio	on of the week/month/you name it	(
Site Feedback	0	Data	-	50
Discussion about this site, its organization, how it works, and how we can improve it.		Expai	nded user profiles on GBIF.org	(80
₽ Staff	5 / month	Mento	119	
Private category for staff discussions. Topics are only visible to admins and moderators.		What Data	we're reading: April 2018 J se	(80
		Close data Data	to 3,000 papers use GBIF-mediated	100
		li mana and	g text on a publisher page Publishing	(100

Welcome to the new GBIF community

1e. Expand national participation

Support for multilingual content on GBIF.org



National rapport

Danmark

12-måneders rapport varende til 31. december 2017

Denne rapport giver en række opsummerende grafer, statistikker og andre detaljer om mobilisering og brug af open-access artsdata gennem GBIF netværket på global og lokal skala. Disse summeringer viser ændring over de seneste 12 måneder, hvis ikke andet er angivet. Samlet set kan elementerne i denne rapport bruges til at guide og måle fremskridt i informationstilgængelighed for nationale og internationale forpligtigelser itt biodiversitet og bæredygtig udvikling.



ENHANCE INFRASTRUCTURE

2b. Deliver names infrastructure

Support Catalogue of Life Plus

New COL+ infrastructure

- includes GBIF Backbone Taxonomy
- separates names & taxonomy
- provides avenues for (infrastructural) support to content authorities

	Search	Pull requests Issue	s Marketplace	Explore		🐥 + T 🔢
Sp2000 / colplus				O Unwatch - 20	🗙 Sta	r 11 ¥Fork 3
↔ Code ① Issues	(18) [1] Pull requ	uests 1 III Projects 0	II Insights			
The Catalogue of Life	plus project					
taxonomy life scie	nce biodiversity	nomenclature				
⑦ 74 commi	ts	2 branches	🛇 0 rele	ases	<u>\$1</u> 3	contributors
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	w pull request	,			Find file	Clone or download T
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Branch: master - Ne	w pull request ring the design in one Start gathering th	place			Find file	Clone or download ~
Branch: master • Ne	w pull request tring the design in one Start gathering th Update main read	place le design in one place	Create n	ew file Upload files	Find file	Clone or download a nmit d9db661 on Mar 15

Catalogue of Life Plus (CoL+)

The Catalogue of Life has the mission to catalogue all known species as an authoritative consensus taxonomy produced by the global taxonomic community. Up to now it has completed peer-reviewed inclusion of nearly all extant species.

Many large institutional users (i.e. GBIF, EOL, ALA, Lifewatch) extend their copy of the catalogue with additional names and species to complete it to serve their own specific purpose. These disconnected efforts result in 'taxonomic inconsistencies' and cause confusion amonast users.

The CoL+ project seeks to replace these efforts with a shared, extended catalogue and complete the reviewed name coverage without sacrificing quality. Creating an open, shared, and sustainable consensus taxonomy to serve the proper linking of data in the globab loodiversity information initiatives is the ultimate goal the project contributes to.

The goals for the Catalogue of Life Plus (CoL+) project are:

- 1. creating both an extended and a strictly scrutinized taxonomic catalogue to replace the current GBIF Backbone Taxonomy and Catalogue of Life
- 2. separating nomenclature (facts) and taxonomy (opinion) with different identifiers and authorities for names and taxa for better reuse
- providing (infrastructural) support to the completion and strengthening of taxonomic and nomenclature content authorities
- 4. ensuring a sustainable, robust, and more dynamic IT infrastructure for maintaining the Catalogue of Life.

Specifically the project twill establish a clearinghouse for taxonomy and nomenclature and rebuild all existing infrastructure of the Catalogue of Life including webservices, the portal and the software for the assembly of the catalogue and its editorial work.

Partners

Catalogue of Life Plus is a collaboration between the Catalogue of Life, the Global Biodiversity Information Facility Secretariat, Naturalis Biodiversity Center and partners with financial support by the Netherlands Biodiversity Information Facility and the Netherlands Ministry of Education, Science, and Culture.

A clearinghouse for taxonomy and nomenclature



https://github.com/Sp2000/colplus

COL+ BUILDING A GLOBAL VISION



PROGRESS IN BUILDING THE CONSORTIUM



PROGRESS: DATA STORE MILESTONE

COL+ API DEBUGGER API DOCS		\$ 1
🛄 CoL+		
API exploration	COL+ API debugger This is a little frontend to the great <u>Catalogue of Life Plus webservices</u> under active development. It is meant as a	
NAME SEARCH	debugging tool for developments and data discovery. A full portal for the CoL+ Clearinghouse and the Catalogue of Life will follow in the second half of 2018.	
DATASET	Some resources to read more about the project: project introduction 	
Favorites	 project on github backend source code debugger source code API docs 	

CoL+ project documentation

<u>CoL+ slide doc</u>

API installation & documentation

http://api.col.plus

Work in progress, frequent changes

Quick debugger frontend

http://tools.col.plus/

Documentation & source code

https://github.com/Sp2000/colplus

https://github.com/Sp2000/colplus-backend

https://github.com/Sp2000/colplus-debugger

ACEF GSD Data

https://github.com/Sp2000/colplus-repo

DEVELOPMENT ROADMAP



Dataset Store $\sqrt{}$ Importer $\sqrt{}$ Names Index **Editorial Tools Archive Store** Taxon Index **User Comments Review Queues Final Deployment**



3a. Identify priority gaps

- New data analyst & data administrator in CPH
- John Waller and Marie Grosjean joined data products team on 3 April
- Will (among other things) synthesize available tools for visualizing data gaps to support mobilization targets







- **3b. Expand data streams**
- Incorporating OTUs in the GBIF backbone
- Pilot project with UNITE to integrate Operational Taxonomic Units for sequence-based 'dark matter fungi' occurrences
- Builds previous work by GBIF Norway to link to NorBOL sequences

Kingdom	Fungi	
Phylum	Basidiomycota	
Class	Agaricomycetes	
Order	Thelephorales	
Family	Thelephoraceae	
Genus	Tomentella Pers. ex Pat.	
Species	Tomentella bryophila (Pers.) M.J. Larsen, 1974	
	Synonyms = Botrytis bryophila (Pers.) Sacc., 1885	
	 Hypochnus obscuratus P. Karst., 1896 	
	 Hypochnus pallidofulvus (Peck) Burt, 1926 	
	 Hypochnus subferrugineus Burt, 1916 	
	= SH002466.07FU	
	= SH002471.07FU	
	= SH002492.07FU	
	= SH002497.07FU	
	= SH002506.07FU	
	= SH002549.07FU	
	= SH002611.07FU	



3e. Liaise with journals

- Increasing communication with leading publishers to
 - Improve recommendations on data citation practices
 - Recognize GBIF as a network of trusted data repositories
- Increase recognition of GBIF network data as FAIR data through RDA, COPDESS, AGU, EGU





IMPROVE DATA QUALITY

4a. Ensure data persistence

- Increasing communication with leading publishers to
 - Improve recommendations on data citation practices
 - Recognize GBIF as a network of trusted data repositories
 - Increase recognition of GBIF network data as FAIR data through RDA, COPDESS, AGU, EGU

Gbif.es / News and Events / Adoption of 'orphaned' Spanish datasets completed

Gbif, es

Adoption of 'orphaned' Spanish datasets completed

Last year, the GBIF Secretariat requested the assistance of national nodes in the network to help rescue a collection of 'orphaned' datasets. These datasets no longer appeared to be actively curated or managed, suggesting that their original data hosts no longer had the capacity to host them. In some cases, data hosts have even lost datasets, for example, due to server failure, leaving no other backup than the versions published through GBIF.org.

The <u>2018 GBIF implementation plan</u> called to have all datasets claimed, curated and re-hosted (activity 4a), and we have recently fulfilled this goal by restoring **94** orphaned **datasets from Spanish institutions and hosting them on the GBIF.ES IPT**. Adoption of these datasets facilitates curated updates and corrections and also ensures the ability to reproduce research that is based on these datasets.

We would like to acknowledge the help made by **Lydia de la Cruz** in this regard – former student of the Master in Biodiversity in Tropical Areas and its Conservation, organized by the Menéndez Pelayo International University (UIMP) and the Higher Research Council Scientific (CSIC). Lydia has done the master's practice in the Coordination Unit of GBIF.ES. Thanks to her time and energy invested in this effort and the GBIFS support we have adopted a bigger set of orphan datasets than any other GBIF node. More news related to this activity coming very soon.

Links of Interest

https://github.com/gbif/watchdog/wiki/AdoptionPlan#phase-1-2017

https://www.gbif.org/dataset/search? q=orphan&publishing_country=ES

IMPROVE DATA QUALITY

4b. Assess data quality

- Rebuild of the ingestion pipeline to provide consistent data processing (parsing, interpretation, quality flagging)
- Will align code base of GBIF, Living Atlases—and others?

E README.md

Pipelines for data processing and indexing

Status: early development

Vision: Consistent data processing pipelines (parsing, interpretation and quality flagging) for use in GBIF, the Living Atlases project and beyond. Built to scale from laptop to GBIF volumes. Deployable on JVM, Spark, Google Cloud, .

Architecture

The project provides vanilla JVM-based parsing and interpretation libraries, and pipelines for indexing into SOLR and ElasticSearch, built using Apache Beam.

Apache Beam provides a high level abstraction framework ideal for this purpose with the ability to deploy across target environments (e.g. Spark, local JVM) and with many built in connectors for e.g. HBase, SOLR, ElasticSearch etc.

Ingress

Ingress is from Darwin Core Archive (zip files of one or more "CSV"s) or ABCD Archives (compressed XML) only[1]. During ingress data is converted from it's native format and stored as Avro files containing Darwin Core compliant data.

This is depicted below:



https://github.com/gbif/pipelines



5a. Engage academia

Secretariat and Science Committee focused on widening the reach of

Young Researchers Award

Abierta convocatoria 2018 Premio GBIF Jóvenes Investigadores

<u>GBIFORG</u> ha abierto la convocatoria para optar al **Premio Jóvenes Investigadores**, dirigido a estudiantes graduados que trabajan con los datos de GBIF en sus estudios de máster o doctorado. El objeto de estos premios es incentivar la investigación en el campo de la bioinformática. Los candidatos deben realizar sus estudios en una universidad perteneciente a uno de los países con derecho a voto o asociados a GBIF. El premio consistirá en dos becas de 5.000 euros, una para cada tipo de estudiante.

En la convocatoria de 2017, Nora Escribano, estudiante de la Facultad de Ciencias de la Universidad de Navarra, fue la primera española en conseguir este galardón. Además del premio, Nora ha visto reconocido el buen trabajo realizado durante su investigación.

Nora Escribano: 2017 GBIF Young Researchers Award winner





5a. Engage academia

Secretariat and Science Committee focused on widening the reach of

Young Researchers Award



Information Facility (GBIF) has issued invitation for nominations for the 2018 Young Researchers Award. The annual programme aims to foster innovative research and discovery in

biodiversity informatics by graduate students whose M.Sc. and Ph.D. studies rely on GBIF-mediated data.

The 2018 awards will provide €5,000 prizes recognising the work of two graduate students—preferably one M.Sc. and one Ph.D. candidate nominated by GBIF Participant countries. The National Biodiversity Data Centre serves as Ireland's GBIF Node. The successful recipients of this year's award will be selected from the pool of nominees received by the GBIF Secretariat by June 2018, and the winners will be announced at prior to the 25th meeting of the GBIF Governing Board, which will be held in Kilkenny in October. As the Governing Board meeting will be held in Ireland this year, it would be excellent if there were a number of applications submitted from Irish researchers for this year's award.

Relevance to Global Biodiversity Information Facility (GBIF)

The over-riding criteria for this award is that proposals must outline how their research is relevant to, and utilises GBIF-mediated data. The research proposal must, as a minimum:

- 1. Outline the research question the study addresses.
- Demonstrate how the research study incorporates data mobilised through the GBIF data portal. Students with questions about GBIFenabled data should work with academic advisors, the National

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Home / 2018 GBIF Young Researchers Award - call for nominations 2018 GBIF Young Researchers Award - call for nominations

2018 GBIF Young Researchers Award - call for nominations

3 April 2018

On behalf of the network of national Participants, the GBIF Secretariat is pleased to invite nominations for the 2018 Young Researchers Award. This annual programme aims to foster innovative research and discovery in biodiversity informatics by graduate students whose master's and doctoral studies rely on GBIF-mediated data

The 2018 programme will provide €5,000 prizes recognising the work of two graduate students-preferably, one master's and one PhD candidatenominated by GBIF Participant countries

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🕊 GBIF

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CANDIDATURES POUR LE GBIF YOUNG RESEARCHERS AWARD 2018

Publié le : 21/03/2018



Au nom du réseau des participants nationaux, le Secrétariat du GBIF a le plaisir de lancer l'appel à candidature pour le Young Researchers Award 2018 (prix des jeunes chercheurs). Ce programme annuel vise à favoriser la recherche et la découverte innovantes en informatique, sur la biodiversité par des étudiants diplômés dont les études de masters et de doctorat reposent sur des données médiatisées par le GBIE

Le programme 2018 offrira 5000€ comme prix, marquant la reconnaissance du travail de deux étudiants diplômés (de préférence), un candidat effectuant un Master et un autre candidat qui passe un doctorat. Ces deux étudiants seront nommés par les pays participants GBIF.

Nora Escribano: 2017 GBIF Young Researchers Award winner





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CANDIDATURES POUR L RESEARCHERS AWARD





Au nom du réseau des partic Secrétariat du GBIF a le plaisir candidature pour le Young Rese (prix des jeunes chercheurs). Ce Propósito vise à favoriser la recherche doctorat reposent sur des donné

Le programme 2018 offrira marguant la reconnaissance d étudiants diplômés (de préfér effectuant un Master et un autre pays participants GBIF.

GBIE

Premio Jóvenes Investigadores 2018

Premio GBIF a Jóvenes Investigadores 2018

Convocatoria para aspirantes

innovantes en informatique, sur l En nombre de la red de nodos nacionales, el secretariado de la étudiants diplômés dont les étuc Infraestructura Mundial de Información en Biodiversidad (GBIF, por sus siglas en inglés) se complace en anunciar la apertura de la convocatoria al Premio a Jóvenes Investigadores 2018 (Young Researchers Award). Este programa tiene como objetivo fomentar estudios y descubrimientos innovadores, realizados por estudiantes de maestría y/o doctorado en el campo de la informática de la biodiversidad, que se basen en datos disponibles a través de GBIF.

doctorat. Ces deux étudiants ser En el 2018 el programa otorgará premios de €5,000 reconociendo el trabajo de dos estudiantes de postgrado preferiblemente un estudiante de maestría y un candidato a



abif.org/voung-researchers-award



5a. Engage academia

Secretariat and Science Committee focused on widening the reach of

- Young Researchers Award
- Ebbe Nielsen Challenge

Ebbe Nielsen Challenge

5

DELIVER RELEVANT DATA

5b. Document needs

- Requirements from 2016 alien & invasive species task group assembled
- Implementation scheduled for 2nd half of 2018
- Also leverages ongoing publication of national alien species checklists by IUCN ISSG | GRIIS
- 10 new national lists published since January



Description



5b. Support biodiversity assessment

MOU signed with IPBES

- Expected to emphasize
 national-level links between
 nodes and IPBES focal points
- Seeking best examples of node guidance, i.e. Belgium, Colombia



- Integrating GBIF-relevant data networks into UNEP-WCMC project on developing national biodiversity and ecosystem assessments for selected countries (CO, CM, VN, ET, BH et al.)
- Proactive global and national engagement prior to launch of 2019 I&AS assessment

INTERMISSION

GDPR



- Refresher on GBIF 2017-2021
 Strategic Plan
- Summary of current activities on 2018 Work Programme, with highlights of key initiatives
- A provocation or two for the future

Detailed, line-by-line set of background slides available at

bit.ly/gbif-wp18q2

#GBIF1billion

Get data Share Tools Inside GBIF

--- Q -

Login

GBIF | Global Biodiversity Information Facility

Free and open access to biodiversity data

OCCURRENCES	SPECIES	DATASETS	PUBLISHERS	RESOURCES
				Q
WHAT IS GBIF?	ABOUT GBIF EST	ONIA		Sec.

Occurrence records 981,456,243

Datasets 38,947



2018 GBIF Ebbe Nielsen Challenge seeks open-data innovations for biodiversity 9 May 2018



Port Stephens, Australia - a sea hare haven? 4 May 2018



Publishing institutions

1,181

The world's newest country becomes GBIF's newest Participant 18 April 2018



Call for nominations opens for 2018 GBIF Young Researchers Award Deadline: 15 June 2018

Species

Learn more about the number of species covered by data in GBIF.org.

v_s_ via iNaturalist. Photo licensed under CC BY-NC 4.0

#GBIF1billion

🥊 Get data Share Tools Inside GBIF

#GBIF1billion

Resources for the GBIF network to use in association with the upcoming big data milestone

The GBIF Secretariat is pleased to provide the Participants and nodes of the GBIF network the following resources to assist them in marking and celebrating the achievement of 1 billion species occurrence records.

We currently expect that GBIF.org will reach 1 billion records during the first half, possibly even the first quarter, of 2018. However, the communications team in Copenhagen will prepare materials and conduct media outreach in advance of reaching that milestone.

Comments? Questions? Interest in coordinating your own activities marking #GBIF1billion?

Write to the communications team

#GBIF1billion campaign goals

- Build awareness in new audiences
- Align existing perceptions with current status and achievements
- Promote network innovations in the mobilization, delivery, use and citation of open data
- Emphasize impacts on scientific research and policy

Social media



5a. Engage academia

Biodiversity Open Data Ambassadors

	Know GBIF	Use GBIF Love G	BIF Promote GBIF
		Research	Education
Data wisdom	One to many	Conference presentations Papers Social media	Lectures Courses Programmes
Data wisdom	One to few	Seminars Interactive sessions Workshops Blogs	Data practicals Computer exercises
Data wisdom	One to one	Project collaborations Paper collaborations Coffee talks	Supervision Instruction
NAME AND DEFINITION

BIODIVERSITY OPEN DATA AMBASSADORS

SCIENCE AMBASSADORS OPEN DATA CHAMPIONS GBIF DATA AMBASSADORS

Title and role

Internationally clear and unambiguous

GBIF awarded

General enough for all data actions: use, citation, archival etc.

Programme will seek to support established researchers with strong publication / teaching record. Profile likely includes:

- Hands on experience with GBIF data access, analysis and citation
- Pro user of GBIF.org, API, R libraries.
- Willing to maintain regular contact with Node / Secretariat

Nodes guidance document emphasizes value of having a "person with a scientific background, knowledge of the relevant research communities, and the ability **to motivate and communicate** with data holders, data users and those engaged in policy development"—an ideal national contact for Biodiversity Open Data Ambassadors

BIODIVERSITY OPEN DATA AMBASSADORS PROPOSED PROCESS

- Nodes, committee members or Secretariat invite potential ambassadors, explain concept, and direct them to web form (candidates may also self-select & submit through GBIF.org)
- Web form includes agreement to open data norms/ principles and interest in taking on the role
- Secretariat checks submissions and forwards relevant ones to nodes (or Nodes Steering Group) for endorsement,
- Candidate informed of decision; if accepted, presented with badge, toolkit, etc., to start work

TIMELINE

Volunteers welcome!

A compact working group of five people—2 NSG, 2 SC and Dmitry—to start up programme

Contact dschigel@gbif.org

2016	Original idea: Olaf Bánki
Sep 2017	Presentation & discussion Global Nodes Meeting
Feb 2018	Concept refined with SC & NSG
Mar 2018	Action plan developed
Apr 2018	Presentation and approval of proposal to SC & NSG
Apr-Sep 2018	 Implementation Web content, including definition, principles, process Web form First nominations and names Resources (the kit)
Oct 2018	Progress report at GB25
Nov-Dec 2018	Initial operations and refinement
2019 ->	Fully operational

BIODIVERSITY OPEN DATA AMBASSADORS INFORMATION AND COMMUNICATION TOOLKIT

- Definition
- Criteria
- Application form
- List of ambassadors
- Useful GBIF webpages, always at hand: dataset classes, citation guidelines, R and Python, library
- GBIF user guide (work in progress)
- GBIF communication strategy
- GBIF guide for Nodes -> Handbook
- GBIF monthly slides
 - GBIF for science slides (1-, 3-, 10- slide versions and full set of 15 slides) including advice on access, data quality, post-processing, citation and on data publishing
- Posters and brochures: layout files to print locally
- Contacts of support team at Nodes, GBIF S
- Communication space where other ambassadors are (work in progress)





EMPOWER GLOBAL NETWORK

1c. Equip Participant nodes

Supporting the establishment of effective Participant Nodes



UPDATES ON KEY GUIDANCE MATERIALS

Guide to establishing an effective GBIF Participant node

Capacity self-assessment guidelines for national biodiversity information facilities



GBIF Global Biodiversity



Capacity self-assessments for national biodiversity information facilities

March 2015 Introduction

National biodiversity information facilities are networks of people and institutions that produce, manage and use biodiversity data, together supporting the needs of the country for biodiversity information. They are supported by organizational arrangement and information subtinue, working to improve the availability and usefulness of biodiversity bias or research, policy and desision-making. Countries participating in GBIF commit to establishing a GBIF Participant node, which is a coordinating stame designate by the country to establish and turbuffer device the national biodiversity information facility.

Capacity self-assessment is a tool to help countries with planning at any stage in the development of their national biodiversity information facility. This questionnaire-based approach is designed to assess capacities that underpin sustainable progress in four key areas

Coordinating a national community of institutions, projects and initiatives relating to biodiversity, including making consections to the international GBIF network.
 Mobilizing biodiversity data to make an our science as a possible are freely and openty available.

Reusing the available data to support biodiversity-related science and support decision-making for sustainable development
 Improving biodiversity data management and data quality to support users' needs

Capacity self-assessment through dialogue between key stakeholders can help to identify national capacity strengths and needs, from which to plan capacity enhancement actions. When repeated, the questionnaire can also be used to monitor and evaluate progress in achieving the biodiversity information facility's capacity-related goals.



https://www.abif.ora/document/80925 https://www.abif.ora/document/82277

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SEEKING GUIDING EXAMPLES FROM NODES



The combination of urban development and rising sea levels is a threast to coastal ecosystems. In Mexico, coastal durae represent one per cent of the national territory, but is home to serven per cent of the country's seed plants. This study focuses on the Atlantic coast of Mexico and identifies areas of high diversity and potential targets for conservation efforts. Using GBIF-mediated occurrences, researchers modellet the distribution of 23 species of herbaceous planta and perential shrubs and find the highest number of typical and endemic species in areas maging from southern Tamaulipas to central Venaruz and the northerm and eastern coast of the Yucatan perinsula. Although being close to protected areas, a great deal of areas identified have no direct coastal protection. The study suggests that increased conservation efforts are needed and should takes priority over other activities, such as tourism.

© PRIORITY AREAS FOR CONSERVATION OF BEACH AND DUNE VEGETATION OF THE MEXICAN ATLANTIC COAS

Citations

MendozaAdonzález G, Martínez ML, Rojas-Soto O, Téllez-Valdés O and Arias-Del Razo I (2016) Priority areas for conservation of beach a Sure vegetation of the Mexican Atlantic coast. Journal for Nature Conservation. Elsevier BV 33: 25–34. Available at 60:10.1016/j.jnc.2016.04.007.

Subject

Researchers country: Mexico United States Country coverage: Mexico Topics: Conservation

Help others learn from your experience

How has your node grown, developed and overcome challenges? We'd like real examples from the community

Range of suggested themes and topics

bit.ly/gbifnode-guiding-examples

- · Coordinating a national biodiversity information facility
- Implementing a national biodiversity data mobilization strategy
- Meeting biodiversity information needs at the national level
- Supporting improved management of biodiversity data nationally
- Collaborating with other nodes/initiatives (beyond the purely national scope)

Contact <u>mraymond@gbif.org</u> for template



Andry Jean Marc Rakotomanjaka mentoring participants in the first BID data mobilization workshop, Cape Town, 2015

- Approach started in the Biodiversity Information for Development (BID) programme
- Developing a community of practice: Involving experts from the GBIF community to support the BID funded projects
- Volunteers apply through online form and trained after selection in a webinar
- Mentors given roles in supporting capacity enhancement workshops and now assigned to support BID projects



Pierre Radji mentoring participants in the first BID data mobilization workshop, Cape Town, 2015

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Trainers and mentors 'selfie' at BID Pacific workshop 2017

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Mentors at the BID Caribbean workshop, Trinidad, 2017

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GBIF VOLUNTEER MENTORS 2018



- Next step:
 expanding from BID programme
- Recruiting new volunteer mentors:
 - Apply via online form
 - Plans to organize new webinar series for mentors
- Opportunities to support upcoming training events and provide support to other projects (e.g. supported through BIFA)

CAPACITY ENHANCEMENT SUPPORT PROGRAMME 2018 REVIEW

- Core programme with annual call for proposals, open only to GBIF Participants
- Co-funding to support Participant-led collaborative activities
- 22 projects funded since 2014, with six new projects to be funded this year
- Consultation with nodes in 2018 will lead to recommendations for GB25



CURRENT MENTORS FROM EUROPE

Full name	Country	BID Mentor	BID Trainer	GBIF Trainer	GBIF Mentor
Aaike De Wever	Belgium				
Abraham (Han) de Koeijer	Belgium				
Anders Telenius	Sweden	Yes			
Anton Van de Putte	Belgium				
ARCHAMBEAU Anne-Sophie	France	Yes			
César José Pollo Mateos	Spain				
Dag Endresen	Norway				Yes
Dimitri Brosens	Belgium	Yes			
Fabien Caviere	France				Yes
Francisco Pando	Spain	Yes			
Franck Theeten	Belgium				
Heughebaert André	Belgium	Yes			
Katia Cezón García	Spain	Yes			
Kevin Holston	Sweden				
Larissa Smirnova	Belgium				
Lien Reyserhove	Belgium				Yes
Luisa Fernanda Seixas Teixeira	Portugal				
Marco Schmidt	Germany				
Marie-Elise Lecoq	France	Yes	Yes		
Mehmet Keçeci	Turkey				
Nicolas Noé	Belgium	Yes	Yes	Yes	
Patricia Mergen	Belgium	Yes			
Paul Geerders	Netherlands				
Piotr Tykarski	Poland				Yes
Quentin Groom	Belgium				
Rui Figueira	Portugal	Yes			
Sophie Pamerlon	France	Yes	Yes	Yes	
TAÏBI Aude Nuscia	France				

EMPOWER GLOBAL NETWORK 1f Plan implementation

1f. Plan implementation



GBIC2

2nd Global Biodiversity Information Conference Delivering biodiversity knowledge in the information age



EMPOWER GLOBAL NETWORK

1g. Coordinate resources



GBIC2

2nd Global Biodiversity Information Conference Delivering biodiversity knowledge in the information age



EMPOWER GLOBAL NETWORK

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GBIC2

2nd Global Biodiversity Information Conference Delivering biodiversity knowledge in the information age

24-27 July 2018 Copenhagen



GBIO COMPONENTS



GBIF 2030 AND GBIO



GBIC2: COORDINATING GBIO IMPLEMENTATION







GBIC2: COORDINATING GBIO IMPLEMENTATION







GBIC2: COMPONENT ROADMAPS





- 1. Define deliverables to be achieved
- 2. Identify known challenges and issues
- 3. Document existing standards and best practices
- 4. Identify existing infrastructures or tools for adoption/support/ enhancement as components
- 5. Identify and describe missing components and required services
- 6. Identify dependencies or overlaps with other GBIO component areas



GBIC2: FUNDING ROADMAP IMPLEMENTATION

International institutions and projects

- 1. Identify potential funding sources
- 2. Develop funding proposals to implement components
- 3. Plan sustainable delivery and long-term collaboration

Roadmap project office

- 1. Offer guidance on alignment with international plans
- 2. Coordinate letters of support from global community **International partners**
- 1. Provide requirements / advice / implementation support
- 2. Align activities with funded components



GBIC2: FUNDAMENTAL REQUIREMENTS

- Transparency and clear governance
- Open international collaboration
- Mechanisms to support trust between stakeholders
- Commitment to open access data culture
- Development of a common conceptual outline
- Credibility with governments and funding bodies
- Credibility with researchers and scientific bodies



GBIC2: ISSUES TO SOLVE

- Existing funding short-term project-based
- Overlapping stakeholder mandates
- Existing project timelines and milestones
- Sustainability of components
- Low levels of trust from researchers for "aggregators"
- Handling competitive attempts to implement components
- Limited engagement with some geographic regions
- Challenges of multilingual collaboration



Provocation for the future

AI | COMPUTER VISION



We're pretty sure this is in the family **rose** family. Here are our top 10 results:

Wild Strawberry (Fragaria vesca) Visually Similar / Seen Nearby



- The federated data in the GBIF index represents the world's largest collection of species occurrence images (23 million+)
- What is the sense of the community about the reuse of suitably licensed images in training machines to recognize species?
- Are there cultural sensitivities or barriers to such uses? If so, how do we begin to address them now?