

# ASSESSMENT OF USER NEEDS OF PRIMARY BIODIVERSITY DATA: ANALYSIS, CONCERNS, AND CHALLENGES

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## ANNEX: FREE-TEXT ANSWERS TO THE CNA-TG SURVEY

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### SUMMARY

This is a comprehensive list of all answers collected from the CNA-TG survey which were allowed in free-text form, i.e. not pre-coded as multiple choice, tick-boxes or radio buttons. These have been arranged by question, then alphabetically. All six language-specific surveys have been merged together. The small number and letter code at the right of each answer corresponds to the respondent's automatic ID and language of the original survey.

### NOTES

1. Answers in *italics* coming from the original Chinese, Spanish, French and Russian versions are translations into English by Burke Chih-Jen Ko (CN) and Arturo H. Ariño (ES, FR, RU).
2. Some discrete answers (i.e. "yes", "OK", tick, etc.) have been recoded into homogeneous bits.
3. Some typos or obvious mistakes have been summarily corrected for analysis and may not reflect the verbatim answer as recorded.
4. Some references have been reformatted for homogeneity.
5. As a rule, full literature references have not been translated from the ES, FR and RU versions except where noted (translated titles appearing in brackets by the original version).

### QUESTIONS AND ANSWERS

#### 02 - Describe your organisation (please tick one or several options): Other (please specify)

- Academic / Educational institution and Research Institution (789429095, EN)
- *Administration* (799881227, FR)
- *Administration* (800740194, FR)
- affiliated to an university but the described project is rather a private interest (804546883, EN)
- As a museum we are involved in research, education and a storage of curated collections (798217342, EN)
- as described in URL (802988610, EN)
- *Association according to the Private Rights, 1901 Law, in agreement by the French Ministry of Ecology (MEEDDAT)* (807586134, FR)
- *Botanical Garden* (808740058, ES)

- combination of res. inst., priv. co., ind. res. (811499161, EN)
- *Charity* (798229727, ES)
- *Environment Ministry* (805722057, FR)
- *Environmental consulting* (789549965, ES)
- GBIF participant node - Compiler and provider of access to primary biodiversity data from researchers and others (795908935, EN)
- Governemnt funded initiative but run by a private company (799738140, EN)
- Government (788900448, EN)
- Government - Environment and Natural Resources Ministry (804059449, EN)
- government agency (803653262, EN)
- Government Agency (803718291, EN)
- *Government organisation, Research, Education* (803021899, CN)
- *Government organism - national level* (797452933, CN)
- *Government organism - national level* (809786057, CN)
- *Government* (807594113, ES)
- *Government office* (805815942, FR)
- *Government organism for technological support and research on water issues* (794025942, ES)
- *Herbarium* (792042500, ES)
- Home (804217067, EN)
- *I'm doing free-lance research at Zihuatanejo* (789477115, ES)
- Independent Non-profit Professional Researcher (789395657, EN)
- International Association (801852267, EN)
- Municipal Institution (789779878, EN)
- municipal museum (788184331, EN)
- Museum (788123063, EN)
- Museum (788132571, EN)
- Museum (788714731, EN)
- *Museum* (796606100, ES)
- Museum (796675742, EN)
- Museum (804165147, EN)
- Museum (805754411, EN)
- Museum (academic, research, public etc) (797535243, EN)
- MycoKey (796787627, EN)
- Natural History Museum (789954185, EN)
- Natural History Museum (804719000, EN)
- *Navarra Government* (807866572, ES)
- NOTE: it appears that you cannot tick more than one option (788287211, EN)
- *Private University* (806709265, ES)
- Provincial Government (791340836, EN)
- *Publicly owned company* (796830098, ES)
- *Publicly owned company* (807458247, ES)
- *Publicly owned company, Canary Islands Government* (797505184, ES)
- *Publicly owned company, Navarra Government, developing the Biodiversity Database Facility* (807602390, ES)

- Publicly owned treatment facility for wastewater treatment (804362879, EN)
- Regional development and consulting (798198867, EN)
- *Research center* (797469049, ES)
- *Research center* (809152291, ES)
- *Research center* (809202854, ES)
- *Scientific research institution (impossible to tick several options)* (801621840, FR)
- State agency (801835961, EN)
- State Government (788351066, EN)
- State Government (797508056, EN)
- State government regulatory agency (788044732, EN)
- State/Regional/Provincial Government Agency (788533978, EN)
- The Dutch audio-visual archive (799296704, EN)
- *Tourist guide* (793854941, ES)
- *unemployed* (811539726, CN)
- University of Alaska Museum (788368913, EN)
- University of Manitoba (810746463, EN)
- we are also educational and a government agency (804726894, EN)
- *Why does it only allow for one answer here?* (800475236, CN)

**03 - Main interest/business of your organisation (please tick one or several options): Other (please specify)**

- *Advanced Research Center, IPN* (799429870, ES)
- *Agricultural and environmental education* (804192012, FR)
- Agriculture (788745446, EN)
- *Agriculture and Livestock* (810688992, ES)
- Agrotechnology, Horticulture (Floriculture) (809896381, EN)
- *All domains* (788247905, ES)
- *Application of environmental regulations* (800740194, FR)
- archiving and distribution (799296704, EN)
- *Herbarium* (798873040, FR)
- Biogeography (802988610, EN)
- Biogeography (804416321, EN)
- Bioinformatics (790300687, EN)
- *Bioinformatics, Genomics* (808806978, ES)
- *Biological invasions* (808371767, FR)
- *commonwealth education* (814166993, CN)
- *Conservation and Use of Biodiversity* (791010796, ES)
- *Conservation of flora and habitats, technical and scientific assistance to Government offices and services* (807586134, FR)
- Coordinate sound management of natural resources and the environment including all issues in biodiversity (805812632, EN)
- data and information management (789544287, EN)
- Data management and information production (805792124, EN)

- *Development Assistance* (809128154, ES)
- *Development Research* (804364635, FR)
- *Diffusion of knowledge of Botany of the French-speaking areas* (801050833, FR)
- Digitisation, biodiversity informatics (788714731, EN)
- *Earth Sciences, Natural Resources, Environment* (793172196, ES)
- Ecological monitoring and communication, citizen engagement in monitoring (788052928, EN)
- Ecology (789837375, EN)
- Ecology / Biogeography (796220458, EN)
- *Ecosystem Services Evaluation* (810126145, ES)
- Education (788118223, EN)
- education and research (788287211, EN)
- *Education and Research* (807653948, ES)
- *Education and Training* (788856304, ES)
- *Enterprise Social Responsibility* (793076383, ES)
- *Environmental and Natural Resource protection* (791081861, ES)
- *Environmental Impact associated to civil water works* (794025942, ES)
- environmental monitoring (789952438, EN)
- environmental policy and legislation (803653262, EN)
- *Evolution* (809899052, ES)
- *Experimental Science* (807148886, ES)
- Facilitate the exchange of invasive species data and information (789289044, EN)
- *Flora collection of Nuevo León and Coahuila* (792042500, ES)
- *Geological Science* (797394842, CN)
- government (790334068, EN)
- Herbarium/Natural History Museum Curation (805077604, EN)
- *Higher Education* (810102198, ES)
- *Historical Heritage Research and Conservation* (797414523, ES)
- international treaty to secure action to prevent the spread and introduction of pests of plants and plant products, and to promote appropriate measures for their control. (789960493, EN)
- Invasion Biology (788246267, EN)
- Invasive Species studies (788459249, EN)
- Marine biodiversity and macroecology (803995773, EN)
- *Marine Science* (805115270, ES)
- *Mosquito research and control, especially invasive species such as Aedes albopictus* (804145326, ES)
- multi-thematic environmental research (796160448, EN)
- MycoKey (796787627, EN)
- National Collections care and accessibility (797535243, EN)
- natural history collections (797909081, EN)
- Natural History Museum (808386557, EN)
- natural history museum with large collections (788950260, EN)
- natural history, local history and anthropology (788184331, EN)
- *none* (811539726, CN)

- Our program is mostly concerned with natural resources documentation and mgmt, but the larger department is also concerned with forestry and public use of natural resources (797508056, EN)
- *Outreach* (794551257, ES)
- Palaeontology (805297035, EN)
- phylogenetic/evolutionary research (788670827, EN)
- Planning a national digitising centre of the natural collections (798198867, EN)
- plant systematics (810746463, EN)
- *Projctcs' incidence on Natural Resources* (789549965, ES)
- Providing access for all to primary biodiversity data from researchers and others (795908935, EN)
- *Register for catalog build* (793071056, ES)
- Renewable Energy (804419219, EN)
- *Research, Protection and Conservation of paleontological, archaeological and historical heritage* (791092537, ES)
- *Scientific heritage management (Natural History collections)* (802155962, FR)
- Software development (797388642, EN)
- *Studies on scientific and technological policy, databasing, information services* (814930803, CN)
- *Sustainable design and construction* (796986487, ES)
- Systematics (788156164, EN)
- *Systematics* (788942982, ES)
- *Tasonomy and Systematics* (810014479, FR)
- taxonomic analysis and ecological community assesement in response to impacts (804362879, EN)
- Teaching (791208480, EN)
- The University of Manitoba is a research intensive and educational institution. (810715089, EN)
- *To promote enviromental care and sustainable development* (794211825, ES)
- water quality (804138441, EN)
- We also deal extensively with biodiversity (798217342, EN)
- *Web development* (807602390, ES)
- Weed seed (families) distribution in specific area (804548781, EN)

**04 - List the ways in which you use Primary Biodiversity Data (please choose one or several options): Other (please specify)**

- *All* (788247905, ES)
- All of the above - in principle it is possible to use OBIS data for any of the uses listed above (789544287, EN)
- *Animal live-in* (808963397, ES)
- as a collections tool for searching for species occurrences in multiple museums for potential loan. (788439959, EN)
- as a taxonomist I am always generating PBD (804726894, EN)
- At the global scale, relatively little Primary Biodiversity Data on invasive species is used/produced. Most of what is available is secondary, derived information. (789289044, EN)
- Biodiversity assessment and monitoring (788527372, EN)
- *Biological Resources Management and Planning* (797732559, ES)
- *Biology and ecology of invasive exotic species* (808371767, FR)
- Biosystematics (804115379, EN)

- *Database integration* (804072107, CN)
- Database management and analysis (805792124, EN)
- *Endogenous agricultural pests management* (790472947, ES)
- *entomological physiology* (811771117, CN)
- environmental policy planning (803653262, EN)
- *Ethnobotanical reevaluation of local common knowledge* (788686273, FR)
- Examining the completeness of taxonomic inventories (803995773, EN)
- *Exsitu conservation of germoplasm (seeds and spores)* (797469049, ES)
- *Flora Applications: Medicinal Plants and Soil Seed Bank research* (806553667, ES)
- Food Security (future availability of food), Sustainable utilization of genetic resources (790004352, EN)
- Here I am answering as being a researcher - in addition to being the DanBlf node manager I do private research on solitary bees. (795908935, EN)
- Identification of weeds, pathogens, races, crop varieties (797175250, EN)
- interpretation of palaeontological data for palaeoclimate research (797909081, EN)
- *long-term monitoring studies* (803296708, CN)
- *Mitigation measures monitoring* (794025942, ES)
- Pest Identification (788385798, EN)
- *Public exposure of ecological damage* (794211825, ES)
- Regulatory: Weed and Pest Control Acts (790122286, EN)
- species distribution (799331109, EN)
- *The Microorganisms Collection holds cultures for research and academic purposes on Biotechnology and Health* (799429870, ES)
- We collate and display biodiversity data (799738140, EN)

**05 - Provide example documentation (reports/papers/presentations) where Primary Biodiversity Data has been used by you/your group? NOTE: Please provide literature references, URLs of web sites, news items. Please also email us a copy of the report/paper etc. at contentneeds@gbif.org**

- "Cartography of species of special conservation concern in Catalonia: applications of habitat modelling" Contracted by the Catalan Autonomous Government (797480134, ES)
- "Important bird areas for sea birds in Spain (LIFE04NAT/ES/000049): Data base management and development of predictive distribution models based on species-environmental relationships" Contract by SEO-Birdlife (797480134, ES)
- (Author), L. S. 1996. Status of terrestrial insects, pages 735-741. In Sierra Nevada Ecosystem Project, Final Report to Congress, Status of the Sierra Nevada, Volume II, Assessments and Scientific Basis for Management Options. Wildland Resources Center Report 37. (807432048, EN)
- (Authors), 2009. *Mapa Acarológico de España. [Acarological map of Spain]. Autor coordinador. Elsevier 2009; ISBN: 978-84-691-73336.* (806753199, ES)
- (Authors), 2009. Mite species and allergen concentrations in Portugal – Preliminary results. Rev Port Imunoalergologia 2006; 14(3): 237-40. (806753199, ES)
- "Are species distribution models useful to produce national atlas maps at higher resolutions?". X Lusitanian-Spanish Congress of Herpetology. Coimbra (Portugal), October 2008. (797480134, ES)
- "Herpetofauna field notebook database for study and share phenological and corological data", 14th European Congress of Herpetology. Porto (Portugal), September 2007. (797480134, ES)
- "Potential effects of the invasive *Discoglossus pictus* on native species", IX Lusitanian-Spanish Congress of Herpetology. Donostia, October 2006. (797480134, ES)

- 1, 2, 3ième rapport national de mise en oeuvre de la CDB au Mali, voir secretariat@cbd.int (802818378, FR)
- 1st to 4th National Report to the CBD (803718291, EN)
- *A Ecological Investigation on Limnoperna fortunei at Shih-Men Reservoir.* (803222165, CN)
- *A Introduction to the Field Studies Council and Its Environmental Education.* (813358480, CN)
- *A review of the genus Botanophila Lioy (Diptera Anthomyiidae) from China* (804810268, CN)
- *A Taxonomic Revision of Neanotis(Rubiaceae) in Taiwan. (For querying species number as well as taxonomic status in the world.)* (813427630, CN)
- *A Taxonomic Study on Cotoneaster in Taiwan (used for querying species number in the world)* (813427630, CN)
- Estrada-Torres, D. Wrigley de Basanta, E. Conde & C. Lado (2009). Myxomycetes associated with xerophyllous scrubland of the Tehuacán-Cuicatlán Valley Biosphere Reserve, Mexico. *Fungal Diversity* 36:17-56. (807636396, ES)
- A.Akhtar and M.I.Zuberi 2008 Invasive Alien Species in Northern Bangladesh:Identification, Inventory and Impacts. Accepted \*Academic Journals <<http://www.academicjournals.org/ajb>>\* (804862322, EN)
- Acorn size redux. *Journ. Biogeography* 19: 573-579. (788118223, EN)
- *Acta Botanica Malacitana* (808452220, ES)
- *Acta Entomológica Chilena* (790470866, ES)
- ACUARAP (788855019, ES)
- Agrawal, A. A., and M. Fishbein. 2008. Phylogenetic escalation and decline of plant defense strategies. *Proceedings of the National Academy of Sciences, USA* 105:10057-10060 (789013767, EN)
- Agrawal, A. A., J.-P. Salminen, and M. Fishbein. 2009. Phylogenetic trends in phenolic metabolism of milkweeds (Asclepias): evidence for escalation. *Evolution* 63:663-673 (789013767, EN)
- Agrawal, A. A., M. Fishbein, R. Jetter, J.-P. Salminen, J. B. Goldstein, A. E. Freitag, and J. P. Sparks. 2009. Phylogenetic ecology of leaf surface traits in the milkweeds (Asclepias spp.): chemistry, ecophysiology, and insect behavior. *New Phytologist* (in press). (789013767, EN)
- Aguado, M.T. & San Martín, G. 2009. Phylogeny of Syllidae (Annelida, Phyllococida) based on morphological data. *Zoologica Scripta.* (810897244, ES)
- Águeda B, Agerer R, De Miguel AM, Parlade J. 2008. Quercirhiza quadratum + Quercus ilex L. subsp. ballota (Scop.) Desf. *Samp. Descr Ectomyc* 11/12 (806724397, ES)
- Águeda, B.; Parlade, J.; DE MIGUEL, A.M.; Martínez-Peña, F. Characterization and identification of field ectomycorrhizae of Boletus edulis and Cistus ladanifer *Mycologia* 89 (806724397, ES)
- *Aguilar-Aguilar, R. y G. Salgado-Maldonado. 2006. Diversidad de helmintos parásitos de peces dulceacuicolas en dos cuencas hidrológicas de México: los helmintos y la hipótesis del México betadiverso. [Diversity of parasitical helminths of freshwater fish in two Mexican watersheds: Helminths and the beta-diverse Mexico hypothesis]. Interciencia 31: 484-490.* (804705847, ES)
- Aguilar-Aguilar, R., G. Salgado-Maldonado, R. Contreras-Medina, and A. Martínez-Aquino. 2008. Richness and endemism of helminth parasites of freshwater fishes in Mexico. *Biological Journal of the Linnean Society* 94: 435-444. (804705847, ES)
- Aguilar-Aguilar, R., R. Contreras-Medina and G. Salgado-Maldonado. 2003. Parsimony analysis of endemism (PAE) of Mexican hydrological basins based on helminth parasites of freshwater fishes. *Journal of Biogeography* 30: 1861-1872. (804705847, ES)
- Aguilar-Rosas, L.E., R. Aguilar Rosas, L.E. Mateo Cid, A. C. Mendoza. 2002. Marine algae from the Gulf of Santa Clara, Sonora, México. *Marinas del Golfo de Santa Clara, Sonora, México. Otoño Invierno Hidrobiología* 477: 2311-238. (791200661, ES)
- Aguilar-Rosas, L.E., R. Aguilar-Rosas, A. C. Mendoza-González y L.E. Mateo-Cid. 2000. Marine Algae from Northeast Coast of Baja California, México. *Botánica Marina* 43:127-139. (791200661, ES)

- Aguilar-Rosas, L.E., R. Aguilar-Rosas, F.F. Pedroche, A.C. Mendoza-González, L.E. Mateo Cid. 2008. El género *Colpomenia* (Scytociphonaceae, Phaeophycota) en las costas Mexicanas. Pp. 1-27. In: A. Senties y K.M. Dreckmann (Eds.) Monografías Ficológicas Vol. 3. UAMIZtapalapa, Mexico y Universidad Autónoma de Baja California. (791200661, ES)
- Aguilar-Rosas, L.E., R. Aguilar-Rosas, H. Hawai, S. Uwai y E. Valenzuela-Espinoza. 2007. New record of *Sargassum flicinum* Harvey (Fucales, Phaeophyceae) in the Pacific coast of Mexico. *Algae* 22(1): 17-21. (791200661, ES)
- Aguilar-Rosas, R. y L.E. Aguilar-Rosas. 2003. El genero *Porphyra* (Bangiales, Rhodophyta) en la costa Pacifico de México. III. *Porphyra gardnerii* (G.M. Smith et Hollenberg) Hawkes. *Hidrobiológica* 13(4). (791200661, ES)
- Alford, M.H. 2001. The vascular flora of Amite County, Mississippi. *Sida* 19(3): 645-699. (788371183, EN)
- Alford, M.H. 2003. Claves para los generos de Flacourtiaceae de Peru y del Nuevo Mundo. *Arnaldoa* 10(2): 19-38. (788371183, EN)
- Alford, M.H. 2003. Noteworthy collections--Mississippi. *Castanea* 68(1): 93. (788371183, EN)
- Alford, M.H. 2006. A new species of *Hasseltia* from Costa Rica and Panama (Salicaceae). *Brittonia* 58(3): 277-284. (788371183, EN)
- Alford, M.H. 2006. A taxonomic revision of the Andean genus *Pineda* (Salicaceae). *Kew Bulletin* 61: 205-214. (788371183, EN)
- Alford, M.H. 2006. Gerrardinaceae: a new family of African flowering plants unresolved among Brassicales, Huerteales, Malvales, and Sapindales. *Taxon* 55(4): 959-964. (788371183, EN)
- Alford, M.H. 2006. Nomenclatural innovations in neotropical Salicaceae. *Novon* 16(3): 293-298. (788371183, EN)
- Alford, M.H. 2008. Revision of *Neosprucea* (Salicaceae). *Systematic Botany Monographs* 85: 1-62. (788371183, EN)
- Alford, M.H., C. Grandez, and R. Vasquez. 2005 ("2004"). Una nueva especie de *Neosprucea* (Salicaceae/Flacourtiaceae) de Peru y Colombia. *Arnaldoa* 11(2): 37-42. (788371183, EN)
- Algar, A. C., H. M. Kharouba, E. R. Young, and J. T. Kerr. 2009. Predicting the future of species diversity: macroecological theory, climate change, and direct tests of alternate forecasting methods. *Ecography*. (803743468, EN)
- Alucema V., A. P. A.; Díaz-Palma, P. A.; Hayashida, G. & Maidana, N. I. 2009. Development and standardization of a microalgae test for determining deaths by drowning. *Forensic Science International* 184: 37-41 (804325205, ES)
- Álvarez-Romero, J., R. A. Medellín, H. Gómez de Silva, A. Oliveras de Ita y O. Sánchez. 2008. Animales exóticos en México: una amenaza para la biodiversidad. CONABIO-UNAM-SEMARNAT, México, D.F. 502 + 16 pp. (789918245, EN)
- Allen G. Collins Zoologist, NMFS, NOAA National Systematics Lab \* Phone: 202-633-0645 \* Fax: 202-357-2986 \* E-mail: collinsa@si.edu website \* Mailing Address: Smithsonian Institution PO Box 37012, MRC 163 Washington, DC 20013-7012 \* Courier Delivery Address: Smithsonian Institution National Museum of Natural History 10th and Constitution Ave, NW Washington, DC 20560-0163 bar Responsibilities: Invertebrate Zoologist with Curatorial Responsibilities for Medusozoa (Cnidaria) and Hexactinellida (Porifera) Education: University of California at Berkeley, Department of Integrative Biology, Major Professor: James W. Valentine, Degree and Date: PhD, 1999 Amherst College, Majors: Mathematics and Economics, Degree and Date: BA, 1987 Research Interests: My research focuses on the evolutionary history of relatively simple animals, cnidarians (jellyfishes, corals, etc.), placozoans (aka Trichoplax), and sponges. I generate and use evolutionary trees, known as phylogenetic hypotheses, to better understand how the amazing biodiversity of these groups -- in terms of morphology, life history, and genetics -- has come to be. Professional Activities: Editorial Board Member of Systematic Biology PI (with 8 others) on NSF Assembling the tree of life program - An integrative approach to investigating cnidarian phylogeny, 2005-2009 Recent Publications: Dohrmann, M., Collins, A.G. and Woerheide, G. 2009. New insights into the phylogeny of glass sponges (Porifera, Hexactinellida): Monophyly of Lyssacinosa and Euplectellinae, and the



- phylogenetic position of Euretidae, *Molecular phylogenetics and evolution*, 52:257-262 (804123890, EN)
- An Annotated List Of Deepwater Fishes From Off The New England Region, With New Area Records. 2003. Moore et al. *North Eastern Naturalist*. (791208480, EN)
  - An Ecological Analysis of Conservation Priorities in the Apache Highlands Ecoregion (788283142, ES)
  - an unrealistic request. Too many to list explicitly. (796392897, EN)
  - *Anaciaeschna isocoelus* (Müller, 1767) en el ámbito iberobaleár (Odonata: Aeshnidae) *Boletín de la Sociedad Entomológica Aragonesa* 44: in press (796600979, ES)
  - *Análisis de Discrepancias de Anfíbios de la Sierra Madre Oriental [Analysis of amphibian discrepancies in the Sierra Madre Oriental]* (790646093, ES)
  - *Análisis ecológico de las prioridades de conservación en la eco-región del desierto sonorense [Ecological analysis of conservation priorities in the Sonoran desert eco-region]* (788283142, ES)
  - Angel R. Moreira González, Miguel Gómez-Batista, Ana M. Suárez Alfonso, Angel R. León Pérez, María E. Castellanos González (2003): Variación de la composición y abundancia de Macroalgas en la Bahía de Cienfuegos, Cuba. *Rev. Invest. Mar.* 24(2):83-94, 2003 (788253335, ES)
  - Angel R. Moreira, Maickel Armenteros, Miguel Gómez-Batista, Angel R. León, Rubén Cabrera, María E. Castellanos, Alain Muñoz, Ana M. Suárez (2006): Variation of macroalgae biomass in Cienfuegos bay, Cuba. *Rev. Invest. Mar.* 27(1):3-12, 2006. (788253335, ES)
  - *Annual black list of species* (802534229, ES)
  - *Annual list of endangered species* (802534229, ES)
  - *Annual reports on the seed collection by agreement with the Conselleria de Medi Ambient, Aigua, Urbanisme i Habitatge* (797469049, ES)
  - Anta, A., Soulier-Perkins A., Ouvrard D., Guilbert E. & Bourgoïn Th. 2009. Hemiptera databases in MNHN, Paris. E-biosphere 2009. Species 2000 & ITIS booth. London, UK, 1-5 June 2009. (800587696, FR)
  - APEC -ATCWG Workshop - Capacity Building for Developing and Implementation of Risk Management Systems on Genetic Resources (793276439, EN)
  - Aponte, G. A., N. I. Maidana & H. Lange-Bertalot. 2005. On the taxonomic identity of *Diadesmis confervaceoides* Lange-Bert. & U. Rumrich (Bacillariophyceae). *Cryptogamie, Algologie* 26(4): 337-342 (804325205, ES)
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- *In 2003 I participated in the National Conference on Entomology, presenting a new species of scorpion from the State of Guerrero (Diplocentrus majahuensis). I didn't use the CONABIO information because it did not exist for this group.* (789477115, ES)
- *In 2006-2007 I did a project preparing 50 posters, without any funding, entitled CONOCIENDO EL ENTORNO, with flora from Zihuatanejo. This material was handed to the Dirección de Investigación of the Universidad Autónoma de Guerrero, but it was not printed.* (789477115, ES)
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- *Work group for the flora of Rhone-Alpes* (800740194, FR)
- *Work program on Protected Areas* (801885680, FR)
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- zooplankton database (808696643, EN)
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## 06 - How do you access primary biodiversity data? Please provide detailed examples of each option your select

- 1) *identifications of Dolichopodidae (diptera) from studies on the Armorican Massif* 2) *Relations with the association members* (804951687, FR)
- 1. *Analyzed fecal hormones of Formosan black bears, to study seasonal reproduction and pregnancy status.*  
2. *Acquired proving from references relate to my study and to issue paper, for instance, we found increased fed in early-pregnancy will have strong probability to cause of preterm delivery for Formosan black bear in captive, because of the food increment from the early-pregnancy apparently enhanced progesterone secretion, resulting in changes in the uterine luminal environment.* (803303936, CN)
- 1. FTP with the National Park Service, USA; ANCS+/NPspecies database 2. Specimens taken out on loan or gifts/loans for determination 3. Digital images on web sites; primary institution serving its own data portal like LSU (790300687, EN)
- 1. *Primary specimen data about specimens deposited at national and foreign herbaria such as CMMEX, ENBC, UC that are held as international registers. Also, national unregistered herbaria that meet scientific criteria for treatment and use of vouchers.* 2. *Sometimes, undigitised literature data from peer-reviewed papers.* 3. *International databases such as Guiri's AlgaeBase [...] and DeCew (2007) DeCew's GUIDE [...]* (791200661, ES)
- Field surveys on invasive tunicates in New England B. Monographs available in hard copy and online versions --- marine invertebrates C. I have used GBIF data portal for checking species ranges D. I also use other online data portals such as CoML/OBIS and related products; ITIS. Individual museum databases. Societies such as Am Fisheries Soc (these are hard copy). In

using these products, I often find range errors that represent misidentification of species, and I report them to the data managers. (788459249, EN)

- *Another portal: [www.tela-botanica.org/page:eflore](http://www.tela-botanica.org/page:eflore)* (804192012, FR)
- *Anthos* (808740058, ES)
- *Ask for info through [servext@conabio.gob.mx](mailto:servext@conabio.gob.mx)* (793071056, ES)
- Australian Biological Information Facility (ABIF) (805778517, EN)
- Australias Virtual herbarium (804743560, EN)
- basically I dont trust most identifications in my own taxon, and need to see at least some of the specimens some museums have digitally photographed databases of their types I use herbarium records from various websites and parasite/oid data similarly - but almost always check with someone before using such data blindly (804726894, EN)
- bee taxonomic guides on the internet (788738209, EN)
- BG-BASE multisite Vast database (W3Tropicos) Systax (Bochum) (789779878, EN)
- Biodiversity Institute of Ontario (798601169, EN)
- BioMaps (799331109, EN)
- *Botanical Garden* (806724397, ES)
- *Catalonia Biodiversity Data Bank* (796595424, ES)
- *Catalonia Biodiversity Data Bank, Aragon Flora Atlas* (796820448, ES)
- *Catalonia Biodiversity Data Bank, National Biodiversity Inventory* (797480134, ES)
- *CONABIO* (793409884, ES)
- *CONABIO* (801161632, ES)
- *CONABIO data bank* (810201330, ES)
- *CONABIO database* (790384501, ES)
- *CONABIO site* (793172196, ES)
- *CONABIO [www.conabio.mx](http://www.conabio.mx) The Paleobiology Database IUCN CITES* (791092537, ES)
- *CONABIO, MaNIS,* (809098595, ES)
- Conservation of plants in the Canary Islands Palms of Borneo Palms of the world Conifers (804416321, EN)
- checking of museum databases like <http://insects.oeb.harvard.edu/MCZ/index.htm> (796655048, EN)
- data portals of the large natural history museums (792934475, EN)
- *data posted online by various herbaria* (811539726, CN)
- Direct access to museum collections (804428750, EN)
- Discover Life (810548447, EN)
- *e.g. <http://www.ipni.org/> <http://www.kew.org/data/index.html>  
<http://bibdigital.rjb.csic.es/ing/index.php> <http://www.biodiversitylibrary.org/About.aspx>  
<http://www.philological.bham.ac.uk/bibliography/index.htm>  
<http://sciweb.nybg.org/science2/IndexToAmericanBotanicalLiterature.asp>* (801425447, CN)
- *Envirnment Department, Andalusia Government* (808503964, ES)
- ERMS, ITIS databases (789952438, EN)
- EURISCO; SINGER; National databases and crop specific databases (791311969, EN)
- Examples only given for "other web portals" <http://mycology.sinica.edu.tw/Xylariaceae/>  
<http://www.indexfungorum.org/Names/Names.asp>  
<http://sciweb.nybg.org/science2/IndexHerbariorum.asp> (804546883, EN)
- Extensive personal collections made during the 1970s and 1980s. Examining journals for direct and indirect references to presence of species. Personal visits to herbaria. Extensive loans from herbaria. (788118223, EN)



- *faunaeuropaea.org* (806547864, ES)
- *Field Museum De Chicago Botanical Garden New York* (788855019, ES)
- Field surveys of insects and diseases. Canadian Entomologist. Electronic atlas of the fauna of British Columbia, Butterflies of N.A., etc. (788512581, EN)
- Field work- Exams from Museum collections. Scudder, S.H. Index to North American Orthoptera. O.P.Boston Soc. 1901. Vol. 6 Orthoptera Species File. Carbonell, C.S. Cigliano, M.M. Lage, C. Especies de Acridomorfos Orthoptera de Argentina y Uruguay (CDROM ) (804268975, EN)
- *Field work for data acquisition. Canary Island Biodiversity Database* (797505184, ES)
- Field work/surveys (ours and contracted out) is used to populate Biotics, biodiversity data management software from NatureServe. Shapefiles from this program are exported for use in ArcGIS projects and also for use on a shared (but permission only access) data portal with the State of Maine. (797508056, EN)
- field work: sampling specimens Primary Pubs: taxonomic literature (including monographs, maps etc...) other web: GenBank, Regional checklists Reciprocal agreements: Museum samples (804220564, EN)
- Field works in former USSR (East, Central Asia) 1961-1981; East Australia 2002, French Guiana 2006, Nicaragua 2008 etc. Personal library, collection of reprints and xeroopies Taxonomic literature concerning Macrolepidoptera GBIF Data Portal search irregularly (according to needs) Webpages of lepidopterological content Cooperation and change of publications (also .pdf-s), co-authorship (804913571, EN)
- *FishBase* (805115270, ES)
- *fishbase, google scholar, ISI web of knowledge, Zoological Records* (806550563, ES)
- *Flora Iberica Programanthos* (809166705, ES)
- *For city plans, info is obtained mainly from literature; in Morelia CONABIO supplied the database. For community plans, a vertebrate inventory (anfibia, herps, birds and mammals) was made.* (795178877, ES)
- For our taxonomic research we use primary literature, usually paper-based, but frequently also pdfs, especially for younger publications. GBIF data have been used to help compiling biogeographic maps for species. For reading GBIF range maps you have to know that these maps still reflect where researchers live rather than where the species live. Also, GBIF cannot weight for correct and incorrect data. We use GBIF data with much precaution, but often they are useful though. If we need reliable information, for example the correct names, we can consult only the primary literature. Digital information can only help here if they provide links to the digitized primary literature. (789429095, EN)
- From expert as well. Rarely from Offline digital newer days. (810034473, EN)
- *from http://www.taibif.org.tw (TaiBIF)* (807573181, CN)
- *Gallica Biodiversity heritage Library Conabio (Mex.)* (788526261, ES)
- GBIF data is my least used option, because of the low quality (accuracy) resulting from lack of quality control and updating since the original digitization of the data. I am not providing detailed examples, because that would take too much time. (788173303, EN)
- *GenBank Camera* (809155814, ES)
- *Genebank* (804140284, FR)
- *gGoogle, Wikipedia* (803224153, CN)
- Good grief - this is discouragement. All of the above were used in developing the distribution maps for the grass volumes in the Flora of North America. I consider GBIF data to be too variable in quality and taxonomy to be of value. (788092186, EN)
- *google* (799090046, CN)
- *Google search* (809504663, ES)
- *GVA.ES* (808611345, ES)
- *herbaria* (804586163, EN)

- herbarium websites, and also through loans of specimens from other institutions (799233732, EN)
- HerpNet (793791487, EN)
- herpnet, biodiversity heritage library, BioOne; exchange pdfs with colleagues (804382493, EN)
- <http://bibdigital.rjb.csic.es/spa/index.php> (804457042, EN)
- <http://collections2.eeb.uconn.edu/collections/chp.html>  
<http://insects.oeb.harvard.edu/MCZ/index.htm> (788368913, EN)
- <http://dbiodbs.univ.trieste.it/> (804902966, EN)
- <http://eurisco.ecpgr.org/> (790004352, EN)
- <http://fishdb.sinica.edu.tw> (800431260, CN)
- <http://florida.plantatlas.usf.edu/Default.aspx>  
<http://www.botany.uga.edu/herbarium/GeorgiaAtlas/index.html> (791122013, EN)
- <http://http://nematol.unh.edu/> (804353663, EN)
- <http://paleodb.org//> (790256163, ES)
- <http://plants.usda.gov> (I also make use of GenBank and IPNI) (804273853, EN)
- <http://sciweb.nybg.org/science2/SteereHerbarium.asp>  
<http://www.washington.edu/burkemuseum/collections/herbarium/index.php> collaborators send duplicate specimens, photos, etc. (810578140, EN)
- <http://www.anthos.es/> (806564706, ES)
- <http://www.anthos.es/> (809335155, ES)
- <http://www.anthos.es/> <http://bdb.cth.gva.es/> <http://www.ipe.csic.es/floragon/index.php>  
<http://biodiver.bio.ub.es/biocat/homepage.html> (799744522, ES)
- <http://www.anthos.es/> <http://www.ipe.csic.es/floragon/index.php>  
<http://www.cma.gva.es/acce/accesibilidad.aspx?nivel=2&nodo=2378&idioma=C>  
<http://www.floramontiberica.org/entrada.htm> <http://herbarivirtual.uib.es/cat-med/index.html>  
<http://www.herbariovirtual.ua.es/> (797469049, ES)
- <http://www.bwars.com/> <http://www.atlashymenoptera.net/> <http://www.artdata.slu.se/dyntaxa/>  
[http://www.wildbienen.info/faunistik/bienen\\_d\\_1.php](http://www.wildbienen.info/faunistik/bienen_d_1.php) <http://www.itis.gov/beechecklist.html>  
[http://www.aculeata.de/Fauna\\_M-V/Apidae\\_MV/apidae\\_mv.html](http://www.aculeata.de/Fauna_M-V/Apidae_MV/apidae_mv.html) (795908935, EN)
- <http://www.cate-sphingidae.org/index.do> <http://tpittaway.tripod.com/china/china.htm>  
<http://www.ento.csiro.au/gallery/moths/Sphingidae> [http://www.sphin-sea.unibas.ch/SphinSEA/SphinSEA\\_home.htm](http://www.sphin-sea.unibas.ch/SphinSEA/SphinSEA_home.htm)  
<http://www.silkmoths.bizland.com/danjansphinx.htm> (797563184, FR)
- [http://www.cbnm.org/index.php?option=com\\_content&task=view&id=39&Itemid=93&limitstart=4](http://www.cbnm.org/index.php?option=com_content&task=view&id=39&Itemid=93&limitstart=4)  
<http://www.ipni.org/ipni/plantnamesearchpage.do> <http://www.ars-grin.gov/cgi-bin/npgs/html/taxgenform.pl?language=fr> <http://epic.kew.org/searchepic/searchpage.do>  
<http://www.tropicos.org/>  
<http://coldb.mnhn.fr/colweb/form.do?model=SONNERAT>. [www.sonnerat.com](http://www.sonnerat.com). [www.sonnerat.com](http://www.sonnerat.com). [www.sonnerat.com](http://www.sonnerat.com). [www.sonnerat.com](http://www.sonnerat.com) (807586134, FR)
- <http://www.cbs.knaw.nl/databases/> <http://www.atcc.org/> <http://www.dsmz.de/> (797175250, EN)
- <http://www.faunaeur.org/index.php> (806684923, ES)
- <http://www.faunaeur.org/index.php> (807122567, ES)
- <http://www.insectariumvirtual.com> (807617434, ES)
- <http://www.itis.gov/> <http://www.ipni.org/ipni/plantnamesearchpage.do> <http://test.tropicos.org/>  
[http://www.catalogueoflife.org/annual-checklist/search\\_scientific.php](http://www.catalogueoflife.org/annual-checklist/search_scientific.php) (796599999, ES)
- <http://www.leps.it> <http://www.nic.funet.fi> <http://www.noctuidae.de> (807271476, ES)
- <http://www.marbef.org/data/erms.php> (799876886, EN)
- <http://www.marm.es> (808452220, ES)
- <http://www.mnhn.fr/base/sonnerat.html/> <http://www.aluka.org/> (799348997, FR)

- <http://www.mobot.org/MOBOT/Research/APweb/welcome.html>  
<http://mobot.mobot.org/W3T/Search/vast.html> <http://www.ipni.org/index.html>  
<http://apps.keew.org/wcsp/home.do> <http://www.keew.org/data/grasses-db/intro.htm>  
<http://www.aluka.org/page/content/plants.jsp> <http://flore.cbnm.org/index.php> (789977268, EN)
- <http://www.natureserve.org/explorer/> (801835961, EN)
- <http://www.nrm.se/botany/krypto-s> <http://www.aluka.org> (788714731, EN)
- <http://www.on.ec.gc.ca/eman/index.cfm> Data sets developed used standardized ecological monitoring protocols. (788052928, EN)
- <http://www.rjb.csic.es/jardinbotanico/jardin/index.php?Cab=109&len=es> <http://www.sp2000.org/> (807636396, ES)
- I collect. I accumulate data from trusted publications and publications I can interpret, and people send me specimens and observations. Data in GBIF are too full of errors for me to use. (804123890, EN)
- I do not use any webbased datasets or offline data sets, because they are not at all reliable, because of wrong identifications that can not be checked on original material. The only trustworthy primary data can be obtained from preserved material in museum collections, from (peer-reviewed) articles and books, and from my own field observations. (804376501, EN)
- *I go to CONABIO web and I search there whatever information I need. I must point out that I only consult the information, without copying, and anyway I cite the sources. Primarily I use the cards to see whether the flora or fauna I'm searching is already within NOM 059.* (789477115, ES)
- I maintain and consult my own biodiversity sites for the Lecythidaceae and floras of the Osa Peninsula, the island of Saba, and French Guiana. See my home page for links to these sites. (808095245, EN)
- I only use GBIF and ITIS for confirming taxon names and authors. Its not useful for insects otherwise. (807432048, EN)
- INPI (788106201, EN)
- *INPN, TELA Botanica portals* (800740194, FR)
- *Institute of Ecology* (794211825, ES)
- *International databases such as FishBase, SP2K, etc* (810126145, ES)
- *IPNI, GRIN, virtual herbaria, etc.* (797420204, ES)
- ITIS.gov CalFlora (788184331, EN)
- IUCN Red Data List in web (805792124, EN)
- IUCN, NatureServe, REMIB (789918245, EN)
- *I've never used them, at least consistently* (809332187, ES)
- Manis Bold Genbank (804330245, EN)
- MaNIS ORNIS etc (788842865, EN)
- *manis, herpnet* (790646093, ES)
- MaNIS, HerpNET, ORNIS & FishNet II (791614428, EN)
- MaNIS: <<http://manisnet.org/>> IRSNB:  
<<http://www.naturalsciences.be/darwin/darwin/Search/form>> (804168602, EN)
- *Masters or PhD dissertations related to my work topic. Tropical biology books. On-line databases: Tropicos and NYBG.* (790588481, ES)
- *Materials review at Museums and databases. Fish sampling from the field. Literature review.* (804691270, ES)
- Missouri Botanical Garden's (MO) Tropicos Website Smithsonian's (US) Online Type Images (788371183, EN)
- *Mobot (tropicos database), on-line Herbariums (Harvard, New York Botanical Garden y otros)* (789263477, ES)
- *MOBOT, KEW, etc* (788942982, ES)
- MOBOT, TROPICOS (808236440, EN)

- Museum based research, studying specimens in collections. (788162326, EN)
- Museum Collection Webpages (791208480, EN)
- *Museum Collections* (804925480, ES)
- Museum collections (807649898, EN)
- *Museum database* (796606100, ES)
- *Name and Taxonomy searches for specific biological groups, through a listing of data providers, for specific regions including Mexico* (791081861, ES)
- NatureServe represents an international network of biological inventories-known as natural heritage programs or conservation data centers-operating in all 50 U.S. states, Canada, Latin America and the Caribbean. Each NatureServe member program has a variety of mechanisms for accessing primary biodiversity data. (811046108, EN)
- *NCBI, EMBL, PDB* (813299058, CN)
- NISBase, GISIN (788192263, EN)
- OBIS/Seamap (804411845, EN)
- *Offline USON database. <http://swbiodiversity.org/seinet/index.php>* (791301728, ES)
- online herbaria (788670827, EN)
- *On-line herbaria* (789285008, ES)
- online plant atlases (791161686, EN)
- Other Herbariums, plants.usda, Eflora, BC CDC, IPNI, emails to experts. (810238490, EN)
- *Other online portals: <http://manisnet.org/>, [www.conabio.gob.mx](http://www.conabio.gob.mx)* (793316601, ES)
- Other web based data portals: [www.antbase.org](http://www.antbase.org) (807306375, EN)
- Other web based databases: Tropicos, REMIB; other individuals: various. (804339720, EN)
- our own portals to national datasets. (796392897, EN)
- Paleo Portal (788132571, EN)
- Paleoportals Paleobiology database (788134756, EN)
- *Papers. Reprint requests. Research projects* (804372510, ES)
- *personal collection records, primary literature, other museum collection list.* (800590953, CN)
- PRECIS - Pretoria Computerised Information Systems. Obtained list of species within South Africa. (804604905, EN)
- *Proyecto Anthos IPNI* (809182613, ES)
- *Publicaciones <http://www.faunaeur.org/> <http://sp2000europa.org/>* (806753199, ES)
- *Question: I am not sure what "Access" means here. Is it deposit or retrieve?* (801130797, CN)
- *REmib, international collections databases* (794026967, ES)
- *Sampling trips with Master and PhD students. Thesis and reports on tropical countries. Revisions of families and genera (Bertiara, Bulbophyllum...). GBIF portal (I teach students how to use it). IPNI.* (788686273, FR)
- *Sampling, identification and preservation. Consulting IPN and Biology Institute Annals. Fish fauna of rivers and catchements. CONABIO public access databases or under request for specific areas of interests ([www.conabio.gob.mx](http://www.conabio.gob.mx)). From other Universities and IPN. Within interdisciplinary groups created for multi-institution projects: CIDIR, UNAG, etc. FishBase, NeoData II. And foreign universities' collections.* (794025942, ES)
- *ScienceDirect, Bioone, Wiley Interscience, Springer, etc* (805947884, ES)
- scientific collections (803046147, EN)
- SeSam (Senckenberg) (789954185, EN)
- *Specialist databases: FLOW: <http://flow.snv.jussieu.fr/cgi-bin/flowsite.pl> COOL: <http://rameau.snv.jussieu.fr/cool/index.php> Psyllist: <http://rameau.snv.jussieu.fr/cgi-bin/psyllesexplorer.pl> FlatBug: <http://rameau.snv.jussieu.fr/cgi-bin/aradexplorer.pl>* (800587696, FR)

- *Specific webs for birds, herps, botany, nature photography: antos, mma, etc.* (807602390, ES)
- *Survey data by volunteers* (803491645, CN)
- The Government of Canada provides limited funding for a Canadian portal to GBIF and ITIS called "CBIF". It provides access to an on-line mapping tool that links to GBIF datasets. (804595709, EN)
- The potential benefits of linking global invasive species data with primary biodiversity data have not yet been exploited. (789289044, EN)
- The program Coral Geographic has been used throughout the world - it contains all records of all species - details sent separately (802988610, EN)
- There are many examples in my research. (804101235, EN)
- This is mainly undertaken by consultants / contractor that undertake these assignments for our UNDP-GEF Mainstreaming Biodiversity Project (788655254, EN)
- Through field work and surveys done by other individuals that work for the state government, non-profits, and private businesses. (788351066, EN)
- *Through field work by other teams* (806267880, ES)
- *Through free-access databases at the University of Mexico and other: U. Texas, Texas A & M, U. Arizona, MBG, Harvard, NSC NY, Kew mainly. Conabio, CoL, GBIF, IPNI, APNI, USDA plants, etc.* (802031346, ES)
- *Through TaiBIF to retrieve GBIF data* (800475236, CN)
- Through Thematic and Regional OBIS Nodes (789544287, EN)
- too many to list separately, but a lot come from field work and from the NHM collection and loans from other institutions (796658636, EN)
- Trichoptera World Checklist (798217342, EN)
- TROPICOS (789950710, EN)
- *Tropicos Conabio* (790716449, ES)
- *Tropicos ILDIS* (801091995, FR)
- *TROPICOS IPNI Flora of North America: [http://www.efloras.org/flora\\_page.aspx?flora\\_id=1](http://www.efloras.org/flora_page.aspx?flora_id=1) NatureServe PLANTS GRIN* (801621840, FR)
- TROPICOS IPNI SEINET Oregon Flora Plant Atlas Oregon Flora Database Oklahoma Vascular Plant Database New York Botanical Garden Database Fairchild Botanical Garden Database Natural History Museum (London) Linnaean Database Florida Vascular Plant Atlas Consortium of California Herbaria Database (789013767, EN)
- *TROPICOS, IPNI,* (792042500, ES)
- *tropicos.org* (788497924, ES)
- Tropics (808459923, EN)
- University of Alaska - Museum of the North - specially the multi-collection search engine: ARCTOS <http://arctos.database.museum/SpecimenSearch.cfm?CFID=496031&CFTOKEN=57696485> I also use NatureServe a lot. Our database is available free on the internet: NWT Species Infobase ([www.enr.gov.nt.ca](http://www.enr.gov.nt.ca)) (788900448, EN)
- USDA Plants database Tropicos plants database (805077604, EN)
- Various taxon restricted websites. Various open taxon related discussion groups. General web searches. (804315730, EN)
- Various web sites, I have tried the GBIF portal many times but never found the data useful (804966964, EN)
- virtual museum of the Strickland Museum of Entomology <http://www.entomology.ualberta.ca/> (790612784, EN)
- We are a GBIF data provider ourselves. In addition, we store data at the Systax database (see [www.dorsa.de](http://www.dorsa.de)). Basically I prefer to access data through GBIF, even my own data (if available)

on the web), because I get updated and complementary datasets from other contributors (805771465, EN)

- We collect butterfly observations from many field locations across Canada each year. We retrieve observations from older monographs and publications and digitize them. That includes deriving observations directly from published maps. (803743468, EN)
- We have a library where we can look up information. The Fauna of New Zealand is used in every project to check presence absence in New Zealand. We have a database of interception records collected by MAF quarantine staff that we have access to. The GBIF Data Portal is used to get distribution information for other countries. Web based portals such as ScaleNet/VIDE and Landcare Fungal Database are used to get information on specific organism groups. We pay for biological abstracts online through CABI International (OVID/CPC). There is an institutional agreement with a private organisation (Crown Research Institute) for access to information. (790534038, EN)
- We try to collect/view data from many areas, but we're not (790122286, EN)
- We use OBIS (Ocean Biogeographic Information System) and DFO (Canadian Department of Fisheries and Oceans) databases. Also WoRMS (World Register of Marine Species) and FishBase (803995773, EN)
- *Web site of other culture collection center such as ATCC, DSMZ, CBS, NBRC etc.* (800536896, CN)
- web sites e.g., TROPICOS, IPNI, Digital type collections/virtual herbaria of e.g., NY US F GBIF used to search for available occurrence data and screen for herbarium collections not seen of potential importance (798262770, EN)
- web-based data portals - OBIS, fishbase, fishnet (793676937, EN)
- *Websites of other NTU departments & graduate institutes such as Botany, Zoology, Entomology, etc.* (797394842, CN)
- *Websites of various specimen repositories* (800573355, CN)
- *websites: conabio, uicn, on-line peer-reviewed articles* (794551257, ES)
- *whatever options are available at the moment* (801885680, FR)
- Worms (804179308, EN)
- [www.andeanbutterflies.org](http://www.andeanbutterflies.org) <http://nymphalidae.utu.fi/> (797535243, EN)
- [www.anthos.es](http://www.anthos.es) (797396385, ES)
- [www.anthos.es](http://www.anthos.es) (797416860, ES)
- [www.anthos.es/](http://www.anthos.es/) <http://bdb.cth.gva.es/> <http://biodiver.bio.ub.es/biocat/homepage.html> (797478099, ES)
- [www.bcrc.firdi.org.tw](http://www.bcrc.firdi.org.tw) (805694226, CN)
- [www.biodiversidad.navarra.es](http://www.biodiversidad.navarra.es) (807592721, ES)
- [www.bioportal.si](http://www.bioportal.si) (797815963, EN)
- [www.conabio.gob.mx](http://www.conabio.gob.mx) (793076383, ES)
- [www.hormigas.org](http://www.hormigas.org) (804145490, ES)
- [www.indexfungorum.org](http://www.indexfungorum.org) (800584469, ES)
- [www.itis.gov](http://www.itis.gov) [www.noaa.gov](http://www.noaa.gov) [www.dnabarcoding.org](http://www.dnabarcoding.org) [www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) [www.unal.edu.co](http://www.unal.edu.co) [www.unicartagena.edu.co](http://www.unicartagena.edu.co) (805186352, ES)
- [www.periodicoscapes.com.br](http://www.periodicoscapes.com.br) (804198863, ES)
- [www.sabif.ac.za](http://www.sabif.ac.za) (800601126, EN)

## 07 - Frequency of access: Other (please specify)

- 2-5x / week (788368913, EN)
- *about once a week* (807573181, CN)
- *according to specific needs, and updates* (794025942, ES)

- *as needed* (801885680, FR)
- At least 2-3 times a week (803718291, EN)
- but not GBIF daily! (798262770, EN)
- *Daily during a certain period. Once I have the information I don't access any more* (790588481, ES)
- *Every time I need it* (789561787, ES)
- *every two or three days* (807592721, ES)
- *every week* (813407949, CN)
- Frequency estimate primarily to our own database. For other datasets: once a month. (790004352, EN)
- frequent - at least weekly but not daily (804966964, EN)
- *from time to time* (803296708, CN)
- *herbarium COL* (800394959, ES)
- I don't understand the question (796595322, EN)
- It all depends, I have 12 people working in my lab, some generate data daily, sometimes we access stuff from the web once a year - the variance is so high for the different numerous uses that the question is impossible to answer (810548447, EN)
- n/a (796007832, EN)
- *never* (809332187, ES)
- *normally, every few days* (799744522, ES)
- *not yet tried* (800420199, CN)
- Once a week (791614428, EN)
- *once a week* (800740194, FR)
- Probably a little more than once a month. (803743468, EN)
- Several times a month (810057771, EN)
- *several times a week, according to need* (802031346, ES)
- several times per month (799331109, EN)
- *several times per week* (797563184, FR)
- Twice a week (799292774, EN)
- Varies as I'm currently doing contract work. Can be daily; then a large gap of several months. (788459249, EN)
- *very regularly, several times per month* (800587696, FR)
- Weekly (788118223, EN)
- *weekly* (790716449, ES)
- *weekly* (793243372, ES)
- weekly (805778517, EN)
- *weekly* (806756252, ES)
- *weekly* (810688992, ES)
- Weekly (more than monthly, less than daily) (790316793, EN)

## 09 - If you are accessing datasets through access points other than the GBIF data portal, why?

- 1) our own portals provide the necessary national perspective 2) the GBIF portal has an unacceptable response time for anything other than a trivial query. 3) If you mean 'you' in the sense of my organisation, then its because most people don't know about GBIF and wouldn't use it anyway because of 1 & 2 (796392897, EN)

- *A lot of data are unreliable because they are not checked, are not exhaustive, do contain important errors, or are directly known.* (808821546, ES)
- Access to GIS shapefiles (801835961, EN)
- As alternative when connection to GBIF portal unavailable (788533978, EN)
- Better knowledge of data quality (796220458, EN)
- Contributing records to the USDA Plants database as we have received funding from them (805077604, EN)
- Coral Geographic is an information provider, not user (802988610, EN)
- Data sets more complete in terms of data fields provided as compared to Darwin Core provided through GBIF. Easier to find data sets and records with multimedia info such as pictures. (795908935, EN)
- Do not access GBIF - too poor quality in many ways - the reliability is uncertain (796007832, EN)
- Encyclopedia of Life is new... I like it. How do I share our data with you and EOL? (788900448, EN)
- Essentially, we get the digital kinds of data directly from our regional provider (Agriculture Canada) just because it is no different than doing it through GBIF and our needs are simple enough that no additional material is needed. (803743468, EN)
- Existing relationships / agreement with partner organizations. (811046108, EN)
- GBIF caters only a very specific subset of queries, which are useless for our purposes. (797175250, EN)
- GBIF data for bumblebees are unreliable and I would not use them (796658636, EN)
- GBIF does not cover the taxa that I most weften need information on. Those that are covered do not have the most up to date nomenclature in GBIF, at least the last time I looked. (804500588, EN)
- GBIF does not include extinct organisms. No paleontological data (788950260, EN)
- GBIF has very few records (804586163, EN)
- GBIF is particularly slow and cumbersome for daily access via the web (789779878, EN)
- *Got the data through www.conabio.gob.mx* (793076383, ES)
- I am often looking for specimen images - not available (as far as I know) from GBIF. I also want to filter out observation-only data; not present in other datasets I consult. (789623369, EN)
- *I do first a Google search that normally yields a number of sites containing biodiversity data. Generally (but not always) main sites are linked to GBIF.* (797563184, FR)
- I do not know waht OBIS is? (810238490, EN)
- I do not really trust the data in OBIS or GBIF. (804123890, EN)
- *I don't use GBIF data* (798873040, FR)
- I have more confidence in the quality of the information AND I can find what I need much more easily. (788092186, EN)
- I never managed to get data from the GBIF portal, always have a message that the it is downloading the data only (789977268, EN)
- I only use preserved museum material and no digital datasets, which I consider unreliable (804376501, EN)
- I only access data through my own sites. My experience with other data indicates that it is so full of error that it is not worth accessing. (808095245, EN)
- I prefer to use information directly from the online databases rather than through the GBIF portal. (789395657, EN)
- *I received the information about this survey via ervext@conabio.gob.mx* (793071056, ES)
- I use whatever I get when I Google. (788123063, EN)
- I would first look at the GBIF portal, if the data is not available - I would look elsewhere (791724393, EN)
- identifications www.crustacea.net (789957944, EN)
- I'm actually not to familiar with the names you're using. (790122286, EN)



- *Internal data* (799720113, FR)
- It is usually better to obtain the data directly from the original source. Not all data shown by www.artportalen.se show up in the corresponding GBIF websites, perhaps due to technical differences in the systems used. (789429095, EN)
- It's simpler to go directly to the portal for a given organization if it's their data, specifically, that I want to access (810168013, EN)
- *Lack of awareness and ease of use of known sites* (794025942, ES)
- Many of the organisms are not yet reported through GBIF (804127770, EN)
- more complete data (804168602, EN)
- more information is often available on local sites (790612784, EN)
- more relevant to work; germplasm databases provide the kind of information I am seeking (793276439, EN)
- *N/A* (790996987, ES)
- need only within region data (794212955, EN)
- *No using experience.* (813400553, CN)
- not necessarily the same information (793791487, EN)
- Not sure, this is undertaken by others for us (consultants) (788655254, EN)
- Often I've talked with someone who recommends a particular approach (word of mouth advertising). Habit and tradition do play a large role in work patterns. (788459249, EN)
- Our museum database Arctos has much better mapping and search features than GBIF's portal:  
<http://arctos.database.museum/SpecimenSearch.cfm?CFID=1048775&CFTOKEN=34496382>  
(788368913, EN)
- Performance (788192263, EN)
- Taxonomy is more up to date, which is somewhat a problem with GBIF and fungal taxonomy (804546883, EN)
- Test queries show not much data present - yet. Service looks most useful for locating specialists of under-studied taxa. (804315730, EN)
- The GBIF search function only allows for very limited queries. (791614428, EN)
- The information flow between GBIF and other portals is still not without problems, I am constantly diagnosing inconsistencies (805771465, EN)
- The only thing I know about GBIF is that the folks at NatureServe asked its member programs to do this survey. (797508056, EN)
- those herbarium specimens that have images are easier to find directly through the herbarium's search site (788670827, EN)
- We like GBIF, but we are funded by partners who require us to behave in certain ways. (793207067, EN)
- We only use biodiversity information to enhance our educational descriptions of the video's, and don't use the GBIF data as such (799296704, EN)
- *.Kml* (799090046, CN)
- *.Kml* (810646790, CN)
- *.Kml* (811524723, CN)
- *.SHP* (808452220, ES)

## 10 - Select the data formats which you often choose to access the primary biodiversity data: Other (please specify)

- A vague question. What does it mean? You 'access' biodiversity generally through pixels on a screen. Do you mean 'how do you integrate biodiversity data into your work'? If so, then any form it comes in. (796392897, EN)

- Access (796220458, EN)
- Access (800740194, FR)
- Access (805077604, EN)
- Access (806756252, ES)
- Access (Ms format) (797416860, ES)
- Access . mdb (794025942, ES)
- Access database (788616107, EN)
- Always trying Excel but... the GBIF usually crashed before I download anything, I just look species per species, site per site. (788900448, EN)
- ArcGIS shapefiles (796079107, EN)
- Buh? (788123063, EN)
- copying down relevant items with a pencil - sometimes the fastest (789950710, EN)
- Delta databases (789957944, EN)
- Except for Excel (which I seldom use), I do not know the other formats listed. (804457042, EN)
- FASTA (797563184, FR)
- FileMaker (internal and shared data) (798873040, FR)
- FileMaker Pro (791301728, ES)
- GIS shapefiles and geodatabases. (811046108, EN)
- google world data files (798262770, EN)
- hard- and electronic-copy scientific (i.e., format is text) (788287211, EN)
- Hard copy: books, scientific periodicals. (788162326, EN)
- HTML (788497924, ES)
- I do not choose, it depends of data format on concrete web portal (807306375, EN)
- I do not usually download the data but use what is on the computer screen. (792934475, EN)
- I have yet to download such data. (789623369, EN)
- I use KE Emu which is the database used by The New York Botanical Garden. (808095245, EN)
- I'd have to ask the people in my lab that actually do this work. I myself do taxonomy and so almost never access data through the web yet (810548447, EN)
- it depends (807602390, ES)
- just a note on this question, you meaning to access by downloading data? not very clear form the user point of view. (791311969, EN)
- Map layers (various formats); MS Access format (805792124, EN)
- Matrices (804416321, EN)
- MDB (Access) (805115270, ES)
- Microsoft Access (793076383, ES)
- Microsoft Access (797175250, EN)
- Microsoft Access (809896381, EN)
- MS Access (788052928, EN)
- MS Access database (807674678, ES)
- My research partners & computer guys use others (e.g. dump). (788459249, EN)
- n/a (796007832, EN)
- not for downloading (788687099, EN)
- Not sure, this is undertaken by others for us (consultants) (788655254, EN)

- Only use these maps as a first impression of a total distribution, but never as a basis for scientific data sampling. For that I only use published point maps. (804376501, EN)
- *Oracle* (810014479, FR)
- Original fieldwork, all reserach publications taxonomically corrected (802988610, EN)
- *Other spreadsheets* (788526261, ES)
- *Own or colleague's field work* (806267880, ES)
- Primarily through a shapefile, used primarily in ArcGIS 9.3. KML of some of our features is used on our website for display in Google Earth. We produce a lot of maps for various purposes. (797508056, EN)
- Reading it directly (799368736, EN)
- SAS (791340836, EN)
- searches within germplasm databases; eg GRIN-CA (793276439, EN)
- *Shape files* (793408259, ES)
- *Shape files \*.shp* (808432399, ES)
- Shapefiles, hardcopy (788192263, EN)
- Shapefiles, MS Word documents, dBase files, photographs, scans of hand-written field notes and sketches. (801835961, EN)
- Shapefiles, points and polygons (789918245, EN)
- *shp covertures or similar* (808503964, ES)
- Varied. (788046697, EN)
- View on line (791161686, EN)
- We only use biodiversity information to enhance our educational descriptions of the video's, and don't use the GBIF data as such (799296704, EN)
- web pages (794212955, EN)

**11 - GBIF serve data in all the formats listed in the previous question. If GBIF were to serve data in other formats, which would be your preference(s)? Open-Ended Response**

- *\*.ods* (788526261, ES)
- *.dbf* (791208480, EN)
- *.mdb(Access)* (813414390, CN)
- *.SHP* (808452220, ES)
- *.SHP format maps* (804721133, ES)
- *?????* (789623369, EN)
- *Acces* (804929467, ES)
- *Access* (814930803, CN)
- *Access* (796220458, EN)
- *Access* (804867643, EN)
- *Access* (805339208, EN)
- *Access* (789736560, ES)
- *ACCESS* (791092537, ES)
- *ACCESS* (804928277, ES)
- *Access* (810126145, ES)
- *Access mdb and Excel in order to use filters and pivot tables* (794025942, ES)
- *Access's .mdb* (804917555, CN)

- ArcGIS shapefiles (796079107, EN)
- *ArcGIS Shapefiles* (788283142, ES)
- ArcMap shapefiles, with full data in the attributes. (788173303, EN)
- ArcView Shapefile (790334068, EN)
- *Autocad, GIS* (806487291, ES)
- *Basically, ArcView shapefiles* (789561787, ES)
- Cora Geographic is GIS based but has attendant literature, environmental data etc in any form (802988610, EN)
- *CSV is enough* (811712867, CN)
- *Data Bases* (807122567, ES)
- data formats listed are good. I don't use GBIF for my needs because the taxa that I principally work with (mites) are very poorly represented in the GBIF database. One hopes that the CNCIAN data from Ottawa will be input at some time. Then I would find GBIF very useful! (788287211, EN)
- DBase (804291266, EN)
- *dbf* (790646093, ES)
- *dbf* (797732559, ES)
- *DBF* (804882356, RU)
- *DBF MS Access* (797480134, ES)
- *DBF and better yet, SHAPE-associated DBF* (809335155, ES)
- Depends on the use (789392808, EN)
- distribution data in csv; both as regular coordinates and some transformed versions (789950710, EN)
- Dot maps Matrices excel files Access files (804416321, EN)
- *Electronic journal* (794551257, ES)
- Enough choice above. (788386146, EN)
- ESRI shapefile (793676937, EN)
- *excel* (800588190, CN)
- *excel* (802086385, CN)
- *excel* (803247266, CN)
- *excel* (811710761, CN)
- excel (788687099, EN)
- Excel (790300687, EN)
- Excel (791340836, EN)
- excel (794212955, EN)
- *excel* (801161632, ES)
- Excel formate is good (805043725, EN)
- Excel is my preferred format (804127770, EN)
- Excel or Tab delimited (789174777, EN)
- *Excel spreadsheet* (790526619, ES)
- Excel, text (790534038, EN)
- *Excel, Text, arcview (shape)* (793408259, ES)
- *Excel, Tab-separated text, Maps* (793409884, ES)
- excel. access (804946772, EN)
- Excell (807356212, EN)

- *FileMaker Pro* (791301728, ES)
- *FileMaker.* (796606100, ES)
- Files that can be read directly into Matlab (e.g. \*.MAT) or easy to use with statistical packages such as R (which can normally read in CSV files fine) (803995773, EN)
- *For example, for data with locality I'd like to get directly the SHP for the range of a given species* (796830098, ES)
- *GBIF data formats are flexible enough for my uses* (805186352, ES)
- *GIS formats to locate species. Excel, Open Office* (800740194, FR)
- GIS formats. All of our spatial data are managed in GIS systems. (811046108, EN)
- *GIS layer* (799090046, CN)
- *GIS layers ( \*.shp )* (798178007, CN)
- *GIS metadata, postgis* (802534229, ES)
- GIS shapefiles (791724393, EN)
- *high-resolution maps* (808821546, ES)
- How the data is formatted at the record level isn't really an issue. Most savvy users can manipulate data into a form they can use. What GBIF should focus on is how to package and present that data for non-savvy users, i.e. configurable summaries with maps and served as embeddable URL links or offline PDFs. (796392897, EN)
- I am not sure. I use Access database for the herbarium information. (799368736, EN)
- I do not use GBIF data. (808095245, EN)
- *I don't know* (790473914, ES)
- *I don't know* (807602390, ES)
- *I have no other needs* (790077577, ES)
- I really don't know. (797508056, EN)
- *I'd rather have easy access, general use formats* (797396385, ES)
- If the MySQL dump is MySQL specific in any part, the generic ANSI SQL is preferred to MySQL. XML and tab delimited is however fine. And the Excel export is great for our less technical data consumers. (790004352, EN)
- *If they could come in \*.shp (ArcView-compatible shapefiles)* (791468724, ES)
- *JPG figures and maps. GIS-enabled metadata. Collection specimens photographs* (802031346, ES)
- *JPG, TIFF* (807543428, RU)
- *Kml* (798215298, CN)
- *KML* (790384501, ES)
- *Map as images* (800458689, CN)
- *maps* (809128154, ES)
- Maps as images, but in different formats and resolutions suitable for publication (e.g. in vector format, so that some datapoints can be manually deleted from a figure) (804101235, EN)
- Maps in various formats (for example, gifs, jpgs, Adobe Illustrator) (788371183, EN)
- *Maps, Excel, Word* (788855019, ES)
- *MDB* (805115270, ES)
- *MDB* (807142252, ES)
- *mdb* (808694797, ES)
- *Microsoft Access* (793076383, ES)
- *MS Access* (807271476, ES)

- *MS EXCEL spreadsheet* (789488116, ES)
- *MS Excel, Maps, KML* (793843006, ES)
- n.a. (796643378, EN)
- n/a (796007832, EN)
- N/A (798217342, EN)
- n/a (804121745, EN)
- *n/a* (804239602, ES)
- no additional needs (798262770, EN)
- *no comment* (803230075, CN)
- no other formats are needed (809149879, EN)
- no particular preference. I like Excel. (803743468, EN)
- no preference (788351066, EN)
- *no restriction* (797394842, CN)
- *no special preferences* (803303936, CN)
- *none* (800590953, CN)
- *none* (811539726, CN)
- *none* (813358480, CN)
- none (789954185, EN)
- None (809896381, EN)
- none (810238490, EN)
- *none* (793143478, ES)
- *None other* (807674678, ES)
- *None, I'm happy with the ones I use* (790126880, ES)
- None. (788046697, EN)
- Not of interest to me. (804376501, EN)
- *Other output to GIS* (793316601, ES)
- *PDF* (811762206, CN)
- *PDF* (813402112, CN)
- *PDF* (813403276, CN)
- PDF (804483380, EN)
- *Pdf* (790996987, ES)
- *pdf* (797462382, ES)
- *PDF or Word* (813427630, CN)
- *Postgres* (799720113, FR)
- *Postgresql* (799359906, FR)
- *shape* (797014335, ES)
- *shape* (799444221, ES)
- *Shape* (807046189, ES)
- *shape* (808432399, ES)
- Shape File (796324699, EN)
- *Shape file, dbf* (793875379, ES)
- Shape files or other ready to use GIS layer files (790316793, EN)
- Shapefiles (788192263, EN)

- *Shapefiles, \*.shp* (790188679, ES)
- Shapefiles, Grid (789918245, EN)
- Shapefiles, photographs (801835961, EN)
- *SHP* (797505184, ES)
- *shp (shape format)* (806756252, ES)
- *shp cover or similar* (808503964, ES)
- Spatial data in MapInfo format; Tabular data in MS Access format (805792124, EN)
- *Spreadsheet text, image maps* (793087734, ES)
- *table* (807306375, EN)
- *text; TAB (MapInfo); SHAPE (ESRI)* (807586134, FR)
- The first thing GBIF might want to do is speak General User. Some of us don't speak enough Tech to know what you are asking. (788123063, EN)
- the most accurate (788512581, EN)
- *The most common ones* (808611345, ES)
- *the ones I use* (788942982, ES)
- These are fine. (793207067, EN)
- *Thos listed suffice for my needs* (795178877, ES)
- to simplify: for data csv and for maps kml (791311969, EN)
- *txt file* (807573345, CN)
- We only use biodiversity information to enhance our educational descriptions of the video's, and don't use the GBIF data as such (799296704, EN)
- *web service (XML)* (807573181, CN)
- *whatever is easy to access* (801885680, FR)
- *Word, Excel* (804413864, ES)
- XML and Mysql (800601126, EN)

**12 - List the other types of data you use together with primary biodiversity data? (e.g. satellite imagery, environmental data layers such as salinity, temperature etc., land use data, infrastructure development such as housing, roads, dams, etc.):**  
**Open-Ended Response**

- *.shp file* (804917555, CN)
- *A combination of multiple data about impacts on the watershed network* (808942120, ES)
- *Access paths, elevation* (797469049, ES)
- *ADN sequences (FASTA files, trace files). Specimen images* (797563184, FR)
- *Agricultural polygons, orthophotographs, high-resolution satellite imagery (e.g. SPOT), paths, hydrological network, vegetation types, elevation, infrastructures.* (797732559, ES)
- *All cited* (808503964, ES)
- All dataset in GIS systems: satellite imagery, environmental data layers - rainfall, temp, elevation etc, Land use and impact. Vegetation maps and change maps. Population data, roads, rivers. Climate change data (810034473, EN)
- all environmental data layers; land cover data; land use data. (805792124, EN)
- all of above, i.e. primary GIS environmental data together with synthesised outputs of models which are also GIS layers. (796392897, EN)
- all what you mentioned. This is what our local Eflora does for us. (810238490, EN)
- any other metainformation (habitat, date of isolation, GIS position, etc.) (804353663, EN)

- bathymetry data layers, satellite imagery, sonar imagery (790334068, EN)
- *BD TOPO IGN (France), .tab (MapInfo)* (807586134, FR)
- *Biogeographical provinces, protected areas* (790646093, ES)
- biosecurity risks/status (national, international biosecurity assessments) Convention on Biodiversity status per organism and country CITES status per organism and country (789779878, EN)
- *Biotope thesaurus* (800587696, FR)
- *body size (i.e. length, weight, biovolume), relative abundance (e.g. ind/sq.m.), marine substrate type (rocky, sandy, etc.)* (790256163, ES)
- *Botanical photographs, aerial photography, land use, IGN maps, management data, infrastructure* (800740194, FR)
- *Cadaster, infrastructure development, satellite imagery, other* (803358761, RU)
- *Censuses, urban infrastructure, roads, land use, cover* (794786851, ES)
- *checklists* (809180532, ES)
- City planning maps, Google-earth (798601169, EN)
- Climate and topographic GIS layers, land use maps etc. (798262770, EN)
- climate data, vegetation data (796658636, EN)
- climate layers (WORLDCLIM) (790517746, EN)
- *Climate layers, soil, geology, orthophotography, land use maps* (809335155, ES)
- climatic data (Worldclim and similar data from other sources), Corine land cover, SRTM 90m Digital Elevation Data, administrative data, in-house produced environmental indexes (808236440, EN)
- CLIMEX modelling data when its available, temperature data (790534038, EN)
- *Collector name, collection number, collection date, exact locality* (804192012, FR)
- currently none (804339720, EN)
- Data on the global distribution of invasive species (native and introduced range) (789289044, EN)
- Digital Atlas (789957944, EN)
- *Digital cartography about environmental and vegetation variables. Satellite imagery* (794026967, ES)
- *Digital cover, geographical and ecological* (804239602, ES)
- DNA data (link specimen records to GenBank) (788368913, EN)
- Do not use these, although regularly cooperate with people using such data in modelling of distributions. (804376501, EN)
- *DTM, aerial photography, satellite imagery, mean annual temperature, elevation, soil types, land use and cover* (795178877, ES)
- elevation models (804428750, EN)
- *Elevation, vegetation types, soil types, roads, geopolitical boundaries, physiographical provinces, biotical provinces* (802031346, ES)
- *Environmental data layers* (805186352, ES)
- *environment data* (807573181, CN)
- *environment monitoring* (811707505, CN)
- *Environmental and socioeconomic data available in wms, wfs, kml formats* (810014479, FR)
- *Environmental cover (soil, climate, vegetation, terrain use, roads, etc.); satellite images LANDSAT, MODIS, SPOT, IKONOS)* (790716449, ES)
- *Environmental data* (801885680, FR)
- environmental data - soil properties (788286084, EN)
- environmental data layers (799233732, EN)



- environmental data layers (802675589, EN)
- environmental data layers (802988610, EN)
- environmental data layers (804220564, EN)
- environmental data layers (805411684, EN)
- Environmental data layers for assessing potential spread of invasive species (788459249, EN)
- environmental data layers from field (805043725, EN)
- Environmental data layers such as climate, vegetation cover; infrastructure development such as road network and settlements; satellite imagery (Landsat) (807603503, EN)
- environmental data layers such as salinity, temperature, altitude (804150587, EN)
- environmental data layers such as temperature, elevation, etc. derived from indicator values of plants, land use data, infrastructure such as roads, built area, forested area (799140225, EN)
- environmental data layers, land use data layers, climate scenario data layers, satellite based data layers (796220458, EN)
- environmental data, land use data, air photos, regulatory status (801169168, EN)
- environmental data, land use, protected land areas, ecosystem, soil (791311969, EN)
- environmental data, satellite imagery (788162326, EN)
- *Environmental layers (climate, topography, terrain, soil uses); satellite imagery* (797480134, ES)
- *Environmental layers (temperature and salinity), depth, weather charts* (807674678, ES)
- Environmental layers, such as temperature and altitude for modelling; also shapefiles when plotting distributions (791724393, EN)
- *Environmental layers, temperature, protected areas, exotics* (809098595, ES)
- *environmental layers, water body parameters. Focused on marine and coastal ecosystems.* (791010796, ES)
- *Environmental variables such as land cover or climate. Road network, terrain* (810758307, ES)
- Environmental/climate data layers (WorldClim type); Protected areas (WDPA); Red List status (IUCN); Descriptive trait observation data (Crop characterization and evaluation data) (790004352, EN)
- *ETM and TM Landsat satellite images, CONABIO thematic layers, INEGI thematic layers* (789736560, ES)
- freshwater - hydrological index, flow accumulation marine - sea surface temperature, bathymetry (793676937, EN)
- *Genetic info* (809155814, ES)
- *Geographical variables (elevation, terrain), hydrological variables, climatic variables (temperature, rainfall...)* (796600979, ES)
- Geologic, environmental, land use (804172733, EN)
- geological formation (796324699, EN)
- Geology and soils, vegetation. (788386146, EN)
- *Georeferenced ArcView maps, satellite imagery, water quality data, land use, residual water and non-point discharges. Hydrometric, hydrograms and hydraulical infrastructure data* (794025942, ES)
- *GIS (sociological, economical, scientific)* (797462382, ES)
- GIS climate, geography and economical data (797175250, EN)
- GIS layers: topographic maps, roads, aerial photos (DOQs), National Wetlands Inventory, bedrock, hydrology, satellite-based land use. (801835961, EN)
- *GIS, satellite images* (800590953, CN)
- Google Earth (789954185, EN)
- Google Earth (790612784, EN)

- google earth (804726894, EN)
- google earth data, satellite imagery (794212955, EN)
- GPS (800539996, CN)
- GPS (813403276, CN)
- *gva.cma.es data viewer* (808611345, ES)
- Habitat classifications, ratings for deterioration of natural habitats (789102013, EN)
- Host plant. (788046697, EN)
- I am just beginning to use environmental data layers for our work on the Osa Peninsula. (808095245, EN)
- *I don't have any other use* (790473914, ES)
- I often use data layers with drainages, roads, political boundaries. (792934475, EN)
- I would envision using it mostly with environmental factors. (788092186, EN)
- *image* (803303936, CN)
- Imagery, soils, climate. We struggle with up-to-date land use data and land management data. (793207067, EN)
- images of specimens, field guides, Google maps, Google Earth (799331109, EN)
- *Important Value Index, IVI, information of Vegetation* (813431432, CN)
- *INEGI maps* (801161632, ES)
- infrastructure development, satellite images (807306375, EN)
- *infrastructures, roads, environments, protected areas, water bodies* (790246166, ES)
- *I've known GBIF since less than 6 months. I believe I don't yet know much about the usage of GBIF portal. However I want to teach the use of this portal to our students on professional tracks for field biodiversity management, and in a number of conservation programs in the Central Africa subregion. What do you propose me?* (788686273, FR)
- Kew Bibliography data base, BIOSIS, GPI (804483380, EN)
- land cover mapping, satellite/Google Earth, USGS river flow data, hydro-infrastructure (804382493, EN)
- *land usage information* (803296708, CN)
- *land usage information, reservoir, satellite image* (803222165, CN)
- *land usage, satellite image* (802233816, CN)
- Land use Environmental data Climate data (804416321, EN)
- *Land use and land cover, terrain, potential vegetation-bioregions, roads, hydrography, protected areas* (807601453, ES)
- land use data (804100411, EN)
- Land use data which includes infrastructure features, vegetation map, navigational charts (803718291, EN)
- land use data, data on agricultural products, data on climatic parameters, data on air pollution, (809149879, EN)
- Land use data, Roads (788246267, EN)
- land use data, satellite imageries (804946772, EN)
- *Land use layers, infrastructures, spillages, impact, topography...* (806547864, ES)
- *Land use layers, vegetation types, roads* (791081861, ES)
- *Land use layers, vegetation types, terrain* (793843006, ES)
- *Land use maps in order to separate "exploited" from "natural" areas* (804140284, FR)
- Land use, roads, protected areas etc. (788900448, EN)
- *Latitude and longitude coordinatres, date, capture method* (802155962, FR)

- *LIC and ZEPA layers in Spain, UTM grid, political (county, province, region) layers with boundaries* (796830098, ES)
- *Local soil composition, local vegetation cover* (807122567, ES)
- *map as images* (797452933, CN)
- *Mapping software* (804392582, EN)
- *Maps & atlases. Satellite imagery: Google Earth. In-house GIS & databases. Environmental layers: topography, biomes, vegetation types, land forms, urbanisation, political/administrative divisions. Etc.* (788745446, EN)
- *Maps, roads, MNT and description of the observation protocols* (799720113, FR)
- *Mauritius has very poor digital maps. I usually use hard copy maps with biodiversity data* (789977268, EN)
- *Molecular data* (807356212, EN)
- *Morphological and phenological characters* (810126145, ES)
- *n.a.* (796643378, EN)
- *Nomenclatural and geographical data* (796647418, ES)
- *nomenclatural information, descriptions, images* (789950710, EN)
- *none* (803230075, CN)
- *None* (789623369, EN)
- *None of the above.* (804457042, EN)
- *non-Forestal soil degradation layers* (793409884, ES)
- *not only species records* (790126880, ES)
- *nothing else* (788287211, EN)
- *Orthoimages, geological maps, vegetation maps and/or habitats* (796820448, ES)
- *Orthophoto database, cadaster, regulated areas, currentology, bathymetry* (805722057, FR)
- *Orthophotography* (807635269, ES)
- *Orthophotography, maps and databases on infrastructures and country economical activities* (799444221, ES)
- *Orthophotography, public countryside boundaries, administrative boundaries, natural protected areas boundaries* (808432399, ES)
- *Orthophotography, satellite imagery, land use maps* (806564706, ES)
- *Orthophotography, thematic layers, infrastructures* (807142252, ES)
- *Orthophotos from different dates, maps (terrain, geology, hydrology, biogeography, land use, land cover and agriculture, LICs, CORINE, protected areas, road network)* (807602390, ES)
- *PDF files of baper-based primary literature (monographs, journal articles).* (789429095, EN)
- *People in my lab will be doing, some have done, all of these. But my primary biodiversity data is of a taxonomic revisionary nature.* (810548447, EN)
- *Phylogenies* (788714731, EN)
- *Physiography, climatology, land use, soil types* (800584469, ES)
- *point based environmental data, modelled climate data, geographic data (coordinates, altitude, distance from coast, distance upstream for rivers etc.)* (805778517, EN)
- *rainfall and temperature patterns* (788371183, EN)
- *Range maps* (810201330, ES)
- *Remote sensing and environmental data for modelling occurrence Protected Areas, Land use for conservation assessments Phylogenetic data* (808459923, EN)
- *Roads* (793087734, ES)
- *Roads, human population census, coastal maps, ocean chlorophyll concentration* (788674644, EN)

- Roads, urban areas, other infrastructure (804595709, EN)
- salinity of water, temperature of a place and others (800464906, EN)
- Salinity, temperature, oxygen, pH...; depth; EEZ, FAO Fisheries area, LME... (789544287, EN)
- *Salinity, temperature, general oceanographical data* (790996987, ES)
- *Salinity, temperature, substrate type, bathymetry, decimal coordinates. Time series or reliable stations; there is too much unchecked information* (808821546, ES)
- *salinity, temperature, type of substrate* (796604138, ES)
- Satellite imagery, environmental data layers, (798217342, EN)
- Satellite images, GIS layers (804291266, EN)
- satellite images, land use data (804862322, EN)
- Satellite and Aerial photos, weather data, tree ring data, and a wide variety of GIS layers (roads, rivers, land cover, elevation, etc.) (788192263, EN)
- *satellite image* (798215298, CN)
- *satellite image* (800573355, CN)
- *satellite image* (801543687, CN)
- *satellite image* (805683507, CN)
- *satellite image* (813329651, CN)
- *satellite image* (813358480, CN)
- *satellite image* (813416996, CN)
- *satellite image and land usage information* (811524723, CN)
- *satellite image, \*.img, environmental factors, \*.shp* (798178007, CN)
- *satellite image, Drainage system, forest shape* (802086385, CN)
- *satellite image, environmental information layer of temperature and salinity, land usage* (811762206, CN)
- *satellite image, environmental information layer of temperature and salinity, self-draw* (807343344, CN)
- *satellite image, fundamental constructions like housing, roads, reservoir* (800458689, CN)
- *satellite image, land usage information* (807573345, CN)
- *satellite image, land usage information* (810582490, CN)
- *satellite image, land usage information* (811735928, CN)
- *satellite image, land usage information* (813385341, CN)
- *satellite image, land usage information* (813412440, CN)
- *satellite image, like google map* (797394842, CN)
- *satellite image, maps, temperature, relative humidity, vegetation type* (799090046, CN)
- *satellite image, population and density, micro-habitat like paddy field, roads, forest trail* (811763921, CN)
- *satellite image, weather(temperature, precipitation) topography(slope aspect)* (811712867, CN)
- satellite imagery (788512581, EN)
- Satellite imagery (791161686, EN)
- *Satellite imagery* (793143478, ES)
- *Satellite imagery* (793243372, ES)
- *satellite imagery* (797014335, ES)
- Satellite imagery (804419219, EN)
- *Satellite imagery* (804737369, ES)
- *Satellite imagery* (806487291, ES)

- satellite imagery (807432048, EN)
- satellite imagery environmental data layers land use / land cover infrastructure development urban areas hydrography topography political boundaries vegetation types (790316793, EN)
- Satellite imagery Environmental data layers such as salinity, temperature etc General Circulation Model output (803995773, EN)
- satellite imagery (e.g. GLC2000, Globcover, SPOT-VEGETATION), climate (e.g. WorldClim), hydrology (e.g. HydroSheds, SRTM waterbodies), topography (SRTM), human population density (e.g. LandScan) (804168602, EN)
- *Satellite imagery (Google Earth)* (804145490, ES)
- satellite imagery (the work to be initiated) (809896381, EN)
- Satellite imagery and environmental data layers (e.g. climatological, soil, soil carbon, etc.) (803743468, EN)
- Satellite imagery and infrastructure development (806992043, EN)
- Satellite imagery, (791160134, EN)
- satellite imagery, aerial photographs, infrastructure and environment data layers (810168013, EN)
- satellite imagery, Aerial photography, historic data (804121745, EN)
- Satellite imagery, aerial surveys, land use data, topographic maps, GIS layers and shape files of infrastructure, GIS plots, biogeoreferencing, digital imaging of specimens and plants/fungi, etc., internet fact sheets (790300687, EN)
- satellite imagery, climate data, base maps (788052928, EN)
- satellite imagery, Digital Topo Maps, other GIS datasets (788132571, EN)
- *satellite imagery, ecological maps, multiple environmental thematic maps* (791192981, FR)
- *Satellite imagery, environmental cover in raster and vector formats* (793316601, ES)
- satellite imagery, environmental data layers such as salinity, temperature etc., land use data, infrastructure development (789918245, EN)
- satellite imagery, environmental data layers such as salinity, temperature etc., land use data, infrastructure development such as housing, roads, dams (796160448, EN)
- satellite imagery, environmental data layers such as salinity, temperature etc., land use data, infrastructure development such as housing, roads, dams, (804867643, EN)
- satellite imagery, environmental data layers such as temperature, precipitation, land use data, elevation (797535243, EN)
- satellite imagery, environmental data layers, humidity, lat&long, NPP, etc (796007832, EN)
- satellite imagery, environmental data layers, land use data (793791487, EN)
- satellite imagery, environmental data layers, land use data (805771465, EN)
- *Satellite imagery, environmental data variables through BioClim among others* (805947884, ES)
- *satellite imagery, environmental layers such as salinity, temperature, sea water nutrients* (791200661, ES)
- *Satellite imagery, Google Earth images, vegetation layers* (797396385, ES)
- *Satellite imagery, Hydrological data* (804928277, ES)
- satellite imagery, land use data (811046108, EN)
- satellite imagery, land use data, infrastructure development (803312430, EN)
- *Satellite imagery, livestock soil use, wild fauna use at the national level* (794551257, ES)
- satellite imagery, many types of environmental data layers, land use data, infrastructure development (especially mining, o&g development, wind farms) (796079107, EN)
- satellite imagery, maps, temperature and insolation data (789392808, EN)
- *Satellite imagery, marine charts* (807636396, ES)
- satellite imagery, nautical maps (807649898, EN)

- Satellite imagery, topographic map layers, contour lines, land use data, roads, water, parcel data, public lands data, modeled habitat data (797508056, EN)
- satellite imagery, topographic maps, air photographs, water feature maps, road maps, towns, ecological unit maps. Scale of base maps in most cases is 1:50,000 or 1:20,000 -- 1:250,000 is OK, after that it is too crude. (788173303, EN)
- *Satellite imagery, UTM charts, GPS* (804413864, ES)
- satellite imagery, water body shape layers (791208480, EN)
- satellite imagery, World Clim data layers, data on geology and soils (810057771, EN)
- satellite imagery, environmental data layers (800601126, EN)
- satellite imagery; spatial layers topography, rivers, wetlands, regional ecosystems, etc; environmental data layers such as temperature, rainfall; land use data such as farming crops, forestry (788533978, EN)
- *satellite images* (803321553, CN)
- *Satellite images* (788942982, ES)
- *Satellite images* (789488116, ES)
- satellite images from Google Earch, climate data from BioClim (804101235, EN)
- Satellite images, bathymetry, sea surface temperature (804411845, EN)
- *satellite images, environmental information layer of temperature and salinity, land usage information, housing, roads* (803491645, CN)
- *Satellite images, herbarium specimens images, vegetation cover maps, elevation maps* (789456090, ES)
- *Satellite images, Human-influence maps, Ecological zonification maps* (788497924, ES)
- *satellite images, land use maps, vegetation, hydrology, and others* (791128694, ES)
- *Satellite images, MDE, etc* (788283142, ES)
- *Satellite images, WorldClim environmental layers* (788526261, ES)
- satellite imagery, environmental data layers (805935352, EN)
- *SCAN 25, orthophoto, cadaster, terrain, roads, RPG, water bodies...* (799881227, FR)
- *SHAPE files, SPOT images, Landsat* (793408259, ES)
- *soil cartography, elevation, rainfall* (790588481, ES)
- *soil type maps, terrain, climate* (793076383, ES)
- soil type, location of collection, agricultural regimes, crop types (789174777, EN)
- *soil uses, hydrology, soil use changes, heath spots, farming production, land ownership* (790188679, ES)
- some satellite, GIS technologies - plant based like Floramap (793276439, EN)
- *Species' image and diagnostic details* (796601295, ES)
- *species monitoring* (811710761, CN)
- *Specimens photos* (796640001, ES)
- standard oceanographic data - e.g. temperature, salinity depth, nutrient concentrations (N, P, Si, Fe), pH, alkalinity, calcite saturation, chlorophyll concentration (797909081, EN)
- state boundaries (county and municipal) and roads. (788351066, EN)
- Stratigraphy, regional geology, biostratigraphic ranges (FAD/LAD) (788134756, EN)
- *Structural features* (810637515, CN)
- temp., snow cover, (803046147, EN)
- temperature, land structure data, habitat type (806514489, EN)
- temperature, rainfall, soils/surficial geology, bedrock geology, satellite imagery (810578140, EN)
- *Temperature, relative humidity* (806753199, ES)

- temperature, salinity (804220218, EN)
- *temperature, weather, humidity* (813327579, CN)
- Temperature, soil type, (791340836, EN)
- *Terrain maps, lan use, orthophotography* (808694797, ES)
- *Terrain, geology, vegetation, land use* (791092537, ES)
- *Those used withn ArcGis and satellite imagery in order to locate warm points* (802534229, ES)
- topographic maps, satellite imagery (804743560, EN)
- *Topography, county-level political boundaries, water bodies, natural protected areas boundaries* (790077577, ES)
- Use of land Weather, primary pluviocity, temperature, humidity (804268975, EN)
- *UTM coordinates* (807271476, ES)
- vegetation maps, fauna lists as far available (804913571, EN)
- *Vegetation maps, land use maps* (797505184, ES)
- *Vegetation types, elevation maps, permanent and seassonal rivers, localities* (789561787, ES)
- water quality and chemistry, priamry production, (808696643, EN)
- We only use biodiversity information to enhance our educational descriptions of the video's, and don't use the GBIF data as such (799296704, EN)
- *We use all cited examples: land cover, vegetation layers and formations, native forests cadaster; protected areas, infrastructure, land planning tools, satellite imagery, orthophotography and aerial photography, Google Earth* (804721133, ES)
- *WorldClim data* (791468724, ES)

### 13 - Types or Nature of Primary Biodiversity Data Required? Other (please specify)

- *about digital files of literature* (813427630, CN)
- *Alternate classificaitons, synonyms, infraspecific taxa. Protection, conservation status. Pest or medical importance status* (797563184, FR)
- associated environmental data (796392897, EN)
- *Autoecology, fossil records* (804325205, ES)
- *Barcode database* (813299058, CN)
- Biotic associations. Taxonomic classifications. Phylogenies. (788745446, EN)
- But species interaction data would be terrific also. I never need it because I never thought I could get it, so never built research questions depending on availability of such data. (803743468, EN)
- classification (updated, based on phylogenetic hypotheses) (788714731, EN)
- Collecting metadata (799292774, EN)
- *Collection site information: elevation, vegetation types, collection dates* (794026967, ES)
- *Community types, altitude* (790472947, ES)
- Conservation data (805792124, EN)
- *Correlation between presence and use of species* (794551257, ES)
- *current specimen number* (811762206, CN)
- Dates of observation, quality of occurrence, where (site, town, quad), who (surveyor, etc) (797508056, EN)
- *Description protocols* (799720113, FR)
- *Descriptive data* (800394959, ES)
- Distribution and habitat data extremely important: distinction between natural occurence of a taxon and occurence as result of human introduction (789950710, EN)

- DNA sequence data (810715089, EN)
- Dot Maps (804416321, EN)
- ethnobotanical surveys (804609055, EN)
- *Fossil register* (791092537, ES)
- General biology particularly, thresholds for development, mobility, reproductive capacity, and economic and environmental damage, and host plant information (790534038, EN)
- general distribution maps (informed guesses, not necessarily point data, as areas) (805771465, EN)
- genetic data (including population genetics, individual DNA sequences) (804220564, EN)
- genetic information (789950246, EN)
- geologic age (788950260, EN)
- Geology of Area (788132571, EN)
- geospatially referenced (788052928, EN)
- Habitat & natural community data (e.g. plant species lists with % cover). (801835961, EN)
- Habitat and substrate descriptions, collector itineraries (810168013, EN)
- habitat data (797535243, EN)
- Habitat data (804376501, EN)
- *Habitat preference for environmental flow studies. Community structure and function attributes in order to identify which species will suffer the highest impact due to reservoir construction.* (794025942, ES)
- Habitat requirements, activity periods, life cycles (789102013, EN)
- Habitat, host plant. (788046697, EN)
- *Images* (796647418, ES)
- *Images and photographs* (789488116, ES)
- *Images to help identify the species. Taxonomical keys. Molecular data. Expert list for each group in order to contact researchers* (805186352, ES)
- *In addition to the tables, SIG data* (802534229, ES)
- *Influences (risks, threats)* (797505184, ES)
- Interactive keys (790300687, EN)
- invasive species (811046108, EN)
- invasives issues (804382493, EN)
- Life history information (presence of life history stages --- temporal/seasonal data would be very useful but is rarely available. Changes in distributions over time are increasingly important to know, for climate change and invasive species studies. (788459249, EN)
- *Localization* (797469049, ES)
- Management information, pathway information (788192263, EN)
- *Maps* (793172196, ES)
- *Natural habitat information* (805722057, FR)
- phenographic data exact date of sample (804315730, EN)
- Phenological data of Flagship and Keystone species (809896381, EN)
- *Phenology* (790716449, ES)
- *Protected areas and species* (794211825, ES)
- *Range maps* (793076383, ES)
- *Richness, diversity* (806756252, ES)
- *Risk or endangered status* (791081861, ES)
- *Species cataloguing, conservation status in regional or national catalogues* (806487291, ES)



- Species Distribution, Species Status, Species Habitat and Ecology, Threats to species, Conservation Measures, (803718291, EN)
- *Species image, protection level* (796601295, ES)
- *Species range and condition* (793408259, ES)
- *Species synonyms, taxonomical keys, phylogenetic relations, infrageneric and suprageneric taxonomical units* (802031346, ES)
- specimen based data (809149879, EN)
- *Specimen details and repositories previously cited for later direct check* (788526261, ES)
- synonymies for scientific names, and common names (if any) would be useful (788287211, EN)
- Taxonomic classification; habitat (e.g. benthic vs pelagic, open ocean vs coastal...) (789544287, EN)
- Taxonomy, pop structur, pop density etc (796007832, EN)
- The first three are of particular use, but the second three are also valuable when available. (803995773, EN)
- *Threat level* (807601453, ES)
- type specimen data (804479061, EN)
- typical type data (type status etc.). (789954185, EN)
- *IUCN threat categories (Red List), invasiveness index for each country/region* (807586134, FR)
- *Use data* (790588481, ES)
- *Uses, common names of species* (794786851, ES)
- vouchered specimen records (collections) (788670827, EN)
- We only use biodiversity information to enhance our educational descriptions of the video's, and don't use the GBIF data as such (799296704, EN)
- Yes,. but little reliable information is available (798601169, EN)
- 1 record of a feature we consider important in the state is enough for us to record it. (797508056, EN)

#### 14 - Quantity of data required for each data type? Other (please specify)

- As many records as possible are needed, in some cases. (791208480, EN)
- *As much as possible from each item, according to needs* (806547864, ES)
- *Availability of reliable data banks in whatever accesible format* (808821546, ES)
- Biological information, host plant records (790534038, EN)
- Biotic associations. Taxonomic classifications. Phylogenies. (788745446, EN)
- *depend on the research project* (800595120, CN)
- depends entirely on the project in question (810168013, EN)
- Depends on intended use - but quality is critical (788092186, EN)
- Depends on the species that I am investigating - normally I want as much info as is available. (789623369, EN)
- *depends, hard to explain now.* (814930803, CN)
- Descriptive data supporting identification the number is not very meaningful to us; I indicate the highest number because we often need to check global scope due to the possibility that a new quarantine pest may be present (797175250, EN)
- DNA sequences (810715089, EN)
- Full citations (with links if possible) (804353663, EN)
- *Given the type os ise we give to these data, based on presence or absence of species in a given study area, the larger the number of records the more information we can derive from them.* (806657950, ES)

- *Historical records of presence, absence, and quantitative data about collected specimens (mostly fish) used to calculate abundances, diversity indices, time series trends. Canonical analyses to determine environmental variables explaining species distribution* (794025942, ES)
- *I can't quantify it* (807602390, ES)
- I do not understand how the term "record" is defined in this question. We need to know answers for questions like "how many fish species lives in the Indian Ocean around the Seychelles islands", "where exactly are each of the 2200 species of European non-marine molluscs distributed". (789429095, EN)
- *I don't need any specified quantity of records* (791081861, ES)
- *I understand that the number of records will depend on the species of interest and the geographical scope about which information is required* (809335155, ES)
- I wasn't sure how to answer this question. We accept a variety of data and data quantities. The QUALITY of the data is more important than the number of records. (811046108, EN)
- I'm an entomologist so our numbers are large (788368913, EN)
- *Localities, fossils, and species per stratum* (791092537, ES)
- Management information from other countries is critical to invasive research and management (788192263, EN)
- *Maps* (793172196, ES)
- molecular (789950246, EN)
- No specific number; usually as much as is available (791161686, EN)
- Not sure how to answer this (790094310, EN)
- Not sure, depends on national availability of data (788655254, EN)
- occurrence records: as many as possible others: dependent on question (789950710, EN)
- Occurrence records: I use as many as possible, which can be from 1 to anything, but normally not more than 1000 (804376501, EN)
- Old literature. Biodiversity Heritage Library has turned a good source of data but with large gaps until now (804913571, EN)
- *Range* (807122567, ES)
- sorry, this question seems nonsensical. One of course wants all the data that exist, irrespective of how much that might be. (788287211, EN)
- that depends on the kind of question/s the project is dealing with (809149879, EN)
- The more data the better (810238490, EN)
- The more the better (789544287, EN)
- Too variable to specify (805778517, EN)
- We take what we can! (810034473, EN)
- we will take any quantity of high quality data that we can obtain (796079107, EN)
- What do you mean? (805771465, EN)
- what does this question mean? It depends on the specific purpose. (796392897, EN)

**15 - For which type of environments do you use/need more primary biodiversity data? Other (please specify)**

- Agricultural (791340836, EN)
- all of above (796392897, EN)
- *All of the above. Occasional use* (793409884, ES)
- *All terrestrial habitats* (788526261, ES)
- Antarctic marine and terrestrial (789392808, EN)

- Antarctica only (796216693, EN)
- *Any terrestrial ecosystem, unspecified* (806267880, ES)
- Arctic, Antarctic (788192263, EN)
- Arctic, Taiga, Tundra!!! (788900448, EN)
- boreal forests, arctic and subarctic tundra, alpine systems. (810715089, EN)
- boreal habitats (796160448, EN)
- *Bush-type and rocky terrestrial environments* (807624753, ES)
- Caves (807306375, EN)
- coral reefs (802988610, EN)
- fossil occurrences (804315730, EN)
- *fresh water system, ex. river, lake* (804917555, CN)
- groundwater, karst ecosystems (805935352, EN)
- host data for symbiotic taxa would be exceedingly valuable (788287211, EN)
- *Human-influence environments* (806487291, ES)
- *Hypersaline rivers and lakes. Bogs. Waterlogged plains/catchments* (804325205, ES)
- *Mangrove* (789736560, ES)
- Marine: Coral Reef, Terrestrial: Freshwater Ecosystem (803718291, EN)
- Marine: Coral reefs (807649898, EN)
- Mediterranean type climate regions (796643378, EN)
- *Mediterranean woods, steppes, alpine areas* (807636396, ES)
- Mesohabitats & microhabitats. Host plants. Biotope characterisation. (788745446, EN)
- *Microorganisms in all types of ecosystems* (799429870, ES)
- *Mining areas* (809152291, ES)
- My info needs are not normally tied to an ecosystem. Hard to answer! (789623369, EN)
- *Ocean: fish species number, counts and weight* (803247266, CN)
- *Oceanic tropical isle environments* (807586134, FR)
- Paleontologically related (788132571, EN)
- *Palm woods and tropical deciduous forest* (789456090, ES)
- *Parasites* (788762474, FR)
- *peri-urban, quarries, ordinary nature* (800740194, FR)
- *Reservoirs and other artificial water bodies. Mangroves* (794025942, ES)
- *savanna* (805722057, FR)
- Savanna, mountain rain forest (804180841, EN)
- Shrub Steppe and Chapparal (793207067, EN)
- *shrubs, meadows, littoral* (797469049, ES)
- soil (789950246, EN)
- *Subantarctic and Andine terrestrial environments* (809504663, ES)
- subarctic/subalpine (799368736, EN)
- *Tap water, foods. Frequent use.* (808438479, ES)
- *Terrestrial, in general* (796820448, ES)
- *Terrestrial. Trogllobious environments* (796601295, ES)
- Terrestrial: Boreal (788718259, EN)
- *Terrestrial: domestic environment* (806753199, ES)

- *Terrestrial: Islands* (797505184, ES)
- *Terrestrial: Scrub* (804428750, EN)
- The categories mentioned here are not very logical. You have a category *terrestrial:tropical forests* and *terrestrial: temperate forests*. You do not make such a distinction for grasslands where there is only one category, which throws tropical and temperate grasslands into one bunch of very distinct habitats (804376501, EN)
- *tropical forests, mangroves* (804198863, ES)
- *vegetable commerce* (804192012, FR)
- *water* (793143478, ES)
- *Waterlogged plains* (790588481, ES)
- What about Caves?! (788714731, EN)
- where agriculture plant germplasm exists| temerate (793276439, EN)

## 16 - Which data at the ecosystem level are the most required by you and at what scale? Other (please specify)

- Again, the lab is so diverse that I could fill in almost all of these boxes for some reason or another. (810548447, EN)
- *Altitude* (798229727, ES)
- all of above. too many boxes to tick. (796392897, EN)
- *All of the above. National* (793409884, ES)
- bathymetry (790334068, EN)
- *Biogeographical regions* (791081861, ES)
- *climate information* (811762206, CN)
- *Country-level* (790126880, ES)
- currents data salinity pH may be of importance in the future (788459249, EN)
- *Depends on the work case* (804929467, ES)
- Elevation at all scales (810034473, EN)
- *elevation, vegetation, substrate* (809504663, ES)
- For us "Regional" is below National. (788192263, EN)
- *Fossil beds* (791092537, ES)
- Geology (788132571, EN)
- geology is sometimes useful (804726894, EN)
- host plant availability (790534038, EN)
- *human disturbance like road system, hunting, recreation activities, human communities* (815903681, CN)
- *Irradiance and light intensity* (789488116, ES)
- Land-use data; climate scenario data; hydrology; global/regional/national scales (796220458, EN)
- *marine and coastal* (797462382, ES)
- Marine habitats (799876886, EN)
- Mesohabitats & microhabitats. Biotope characterisation. (788745446, EN)
- My info needs are not normally tied to an ecosystem. Hard to answer! (789623369, EN)
- *Names of plant species* (804198863, ES)
- nitrogen deposition used (804127770, EN)
- Occasionally the global level is needed for all of the above selected. (790004352, EN)
- *Ocean current data and ocean dispersion (e.g. Ekman coast-sea transport)* (790256163, ES)

- *ocean, estuary, wetland, deep sea hot spring* (800614907, CN)
- *Relative humidity* (806753199, ES)
- *Richness, diversity* (806756252, ES)
- *roads* (790646093, ES)
- *Slope, elevation, geology* (808452220, ES)
- *Snow cover* (789392808, EN)
- *Species range* (793076383, ES)
- *Terrain - regional <> provincial* (807601453, ES)
- *The more information provided to the consulting companies, the better we can evaluate impacts of actions on the environment* (806487291, ES)
- *topography* (804168602, EN)
- *Topography* (805778517, EN)
- *Water ionic composition. Main nutrients. Human impact level* (804325205, ES)
- *Watersheds, subwatersheds, micro-watersheds and particular lengths of river systems* (794025942, ES)
- *We have access to these data already.* (797508056, EN)
- *Woodland areas* (799720113, FR)

**17 - Which data at the plant species level are most required by you and at what scale? Please specify child taxa or common names in the box below: Other (please specify)**

- *agriculturally important plants along with native plants nationally* (793276439, EN)
- *All flowers at all levels.* (810548447, EN)
- *all of above* (796392897, EN)
- *All of the above. National* (793409884, ES)
- *ALL scales* (788368913, EN)
- *All taxa within the Endangered Species Catalog of the Canary Islands and the Annexes of the Habitats Directive and Bird Directive* (797505184, ES)
- *Can't specify this one as using different data sets depending on the work at that moment* (804121745, EN)
- *Caryophyllaceae* (789623369, EN)
- *Common names would really help here.* (788192263, EN)
- *cultivated plants (mostly landscape plants)* (800169695, CN)
- *Cyperaceae: mainly Carex* (804929467, ES)
- *Data on Briophyta, Pteridophyta, Algae, Protozoa and bacteria are needed but do not exist* (807601453, ES)
- *distribution data for foodplant and insect habitat location, distribution data of species overlap to identify pockets of high diversity* (804315730, EN)
- *does this cover macrofungi which I work a lot on and at various levels?* (804127770, EN)
- *Don't really break data down like this. Tree and flowering plant data are helpful and global access to that data would be best.* (803743468, EN)
- *Fagaceae: Quercus* (788118223, EN)
- *For my own research and contracts, I focus on bryophytes, but people in the herbarium access data on all plant species at all scales* (810168013, EN)
- *Fossil Plants* (788132571, EN)
- *fungi* (805792167, CN)

- Fungi (810715089, EN)
- *Geobotanical and phytosociological data at the provincial and local scales* (808463584, ES)
- I am a zoologist, I never need data on plants (804182347, EN)
- *I don't understand the question* (800740194, FR)
- I dont work with plants. (803869199, EN)
- In terms of Biodiversity inventories and synthesis, all available taxa in Seychelles (788655254, EN)
- Invasive species occur in all major taxonomic groups. (789289044, EN)
- kelp (790334068, EN)
- *Lepidagathis* (810675895, CN)
- Lichens (788173303, EN)
- Lichens (790300687, EN)
- lichens (804902966, EN)
- *Lichens* (809124257, ES)
- Lichens and fungi (810238490, EN)
- Lichens- National (809896381, EN)
- Liliaceae, Orchidaceae (799890359, EN)
- *Local names at the regional and local levels* (807586134, FR)
- Maine has several endemic species. We track rare tracheophyte plants at all classification levels. Bryophytes, lichens, and algae are sometimes components of our natural community descriptions, and there are several indicator species that are used in late successional forest determinations. (797508056, EN)
- Mangroves, seagrasses and other marine plants (789544287, EN)
- Marine invertebrates (799876886, EN)
- marine phytoplankton diatoms coccolithophores dinoflagellates (797909081, EN)
- *microorganisms* (800536896, CN)
- *microorganisms* (805786877, CN)
- monogenea freshwater (804862982, EN)
- N/A (803995773, EN)
- no plants involved (789954185, EN)
- *none* (800595120, CN)
- *outside the scope of my studies; didn't use related info* (803021899, CN)
- *Plants of the Sudan-Guinea zone: Combretaceae and legumes. Plants of the arid areas: Acacias* (802818378, FR)
- *Potential interest for all taxa at all scales, as regards to host plants of the studied insects* (797563184, FR)
- Primarily Trillium -- as I begin to teach Floristics (and guide student research), just about anything! (804273853, EN)
- Pteridophytes, Orobanchaceae, Flora (general) of North America (804339720, EN)
- Rosaceae, Crataegus, Mespilus Ruscaceae, Maianthemum (810578140, EN)
- *Stenocereus eruca, Sarcosoma arenarium, Amauria brandegeana, Encelia palmeri, Nicoletia trifida, Sibara laxa, Cylindropuntia cholla, Cochemiea halei, Abronia carterae, Agave margaritae, Asclepias masonii* (789736560, ES)
- *Taxonomical and nomenclatural verification of the species names* (800587696, FR)
- *Tree types of the western region of Mexico, coast and mountain areas* (793854941, ES)
- *Vegetation types at all levels* (793316601, ES)

- We work at multiple scales - from global (range-wide) to local populations. (811046108, EN)
- what does this mean: "data on which taxa's is most" (804726894, EN)

**18 - Which data at the Animal species level are the most required by you and at what scale? Please specify child taxa or common names in the box below: Other (please specify)**

- *Actually there is so little information about invertebrates that most times it is obviated* (806487291, ES)
- Although I cannot speak for the zoologists at our institution, I'm sure they require information on many species at many scales. (810168013, EN)
- All fishes (791208480, EN)
- All marine @ global level, but the finer the spatial scale the better (803995773, EN)
- all of above (796392897, EN)
- *All of the above. National* (793409884, ES)
- *All taxa within the Endangered Species Catalog of the Canary Islands and the Annexes of the Habitats Directive and Bird Directive* (797505184, ES)
- Animals in Maine are the purview of the Maine Department of Inland Fisheries and Wildlife, [www.maine.gov/ifw](http://www.maine.gov/ifw). Phillip deMaynadier is the group leader for Herps and Invertebrates, [phillip.demaynadier@maine.gov](mailto:phillip.demaynadier@maine.gov). (797508056, EN)
- *Area and quantification of ocelot, cougar, puma, and habitat, fox, coyote* (793854941, ES)
- Arthropoda: Chordata: Reptilia (turtles, lizards) Cnidaria: Anthozoa (sea anemones, stony and soft corals, sea fans etc..), Hydrozoa (fire corals etc..) Echinodermata: all classes, sea stars, brittle stars, sea cucumbers, sea urchins etc.. Mollusca: all classes, snails, clams, squids etc.. (including aplacophorans, chitons, monoplacs etc..) (804220564, EN)
- Bees (Apoidea) (796643378, EN)
- *Beetles and mammals* (793316601, ES)
- Can't specify this one as using different data sets depending on the work at that moment (804121745, EN)
- Cetacea (804411845, EN)
- Chordata: Vertebrata: Reptilia: Testudines [turtles & tortoises] (804382493, EN)
- domestic livestock and poultry breeds and species (793276439, EN)
- *Elephant* (801885680, FR)
- fishes (804946772, EN)
- Foraminifera (protozoans) (799876886, EN)
- *Freshwater fish* (808942120, ES)
- Gastrotricha (807366156, EN)
- *Generally speaking, all about marine fish* (808821546, ES)
- *Herps, birds and mammals* (789736560, ES)
- I consider the phylogenetic choice of options not really useful, it is a waste of time to most users. (797175250, EN)
- *I don't need these data* (808694797, ES)
- *I don't understand the question* (800740194, FR)
- In terms of Biodiversity inventories and synthesis, all available taxa in Seychelles (788655254, EN)
- *Insecta, Diptera, Muscidae, Stomoxyinae* (804140284, FR)
- *Insecta, Lepidoptera* (802155962, FR)
- Insecta: Diptera: Asiloidea (788093150, EN)

- Interest is writing an encyclopedia, so I need data on wide variety of organisms (789102013, EN)
- Mammalia: Chiroptera (804168602, EN)
- Nematoda, chordata (789392808, EN)
- *no need at present time* (813414390, CN)
- None (789623369, EN)
- None (807356212, EN)
- *not much need for biological info* (813400553, CN)
- Oligochaeta Sub-phylum: vertebrata Class: amphibia Order: Anura (788052928, EN)
- Orthoptera (805771465, EN)
- *Planarians, in general (Order Tricladida)* (809202854, ES)
- *protozoan* (800744792, CN)
- pteropods (797909081, EN)
- Sparassidae global Araneae global (789954185, EN)
- This list seems to me zoological nonsense. 80 % of the animals are Arthropoda, much of the rest are very small groups. The list should have split up insect groups, and lumped unimportant small groups. The expression "phylum" is getting outdated and should be avoided. (789429095, EN)
- Vertebrates (husbandry, domesticated animals) not sure of the scientific higher order classification as listed above. (790004352, EN)
- *vertebrates: anfibia, reptiles* (808463584, ES)
- We deal with all of them, although marine animals, Nematode, and single celled organisms are ignored (793207067, EN)
- We do not do animals (810238490, EN)
- We really don't operate that the phylum level - mostly family and below. I may have missed some because of this. (788192263, EN)
- We work at multiple scales - from global (range-wide) to local populations. (811046108, EN)
- Within the chordates, I'm interested in urochordates --- colonial and solitary tunicates (788459249, EN)
- *Zygomycota* (805792167, CN)

**19 - Which data at the Fungi, Virus and Microbial species level are most required by you and at what scale? Please specify child taxa or common names in the box below: Other (please specify)**

- all of above. And I assume you are wrapping several kingdoms into the word 'Fungi' - the seconds largest group of named organsims next to insects, and bacteria into 'microbes' which is largset unnamed group of organsims next to insects. (796392897, EN)
- *All taxa within the Endangered Species Catalog of the Canary Islands and the Annexes of the Habitats Directive and Bird Directive* (797505184, ES)
- *Ascomycota, basidiomycota* (807630696, ES)
- *bacteria* (805694226, CN)
- Bacteria: Pseudomonas species (789174777, EN)
- Bees sometimes get infected by fungi, but the data are so rare that it's probably better for me to leave this one blank, though they were mentioned in a paper I published in 1987. (810548447, EN)
- Can't specify this one as using different data sets depending on the work at that moment (804121745, EN)
- Definitely never use this stuff. (803743468, EN)
- Diseases and disease pathogens in general (796220458, EN)
- Diseases of unknown aetiology (790534038, EN)



- Distribution of fungus diseases for food crops could be (very) valuable is relevant quality data is made available. (790004352, EN)
- *Ditto* (813400553, CN)
- entomphagic fungi (805771465, EN)
- *Eubacteria Kingdom, Microalgae, yeasts, and molds* (799429870, ES)
- *fishes* (803230075, CN)
- foraminifera radiolaria ciliates choanoflagellates (797909081, EN)
- Fungi & Lichens only. We used to try to deal with hot spring endemic microbes but have given this up. (793207067, EN)
- *Helminths and other fish pathogens* (794025942, ES)
- I am a zoologist, I never need data on fungi, viruses or microorganisms (804182347, EN)
- *I don't need these data* (808694797, ES)
- *I don't understand the question* (800740194, FR)
- *I don't work much in fungus* (801885680, FR)
- *I work in the laboratory of mycelial fungi. Object of my interest - cultivated fungi existing in the collections of all around the world* (801430278, RU)
- In terms of Biodiversity inventories and synthesis, all available taxa in Seychelles (788655254, EN)
- *Lichenicolous fungi and lichenized fungi, Pezizomycotina, Ascomycetes, Celomycetes, Deuteromycetes* (809504663, ES)
- Lichens (788184331, EN)
- Lichens (790300687, EN)
- *Lichens* (809180532, ES)
- marine microbes and infectious diseases (806578418, EN)
- monogenea (804862982, EN)
- *Myxomycetes, Protosteliomycetes, Dictyosteliomycetes* (807636396, ES)
- *N/A* (790996987, ES)
- n/a (796007832, EN)
- n/a (803869199, EN)
- *no need at present time* (813414390, CN)
- None (789623369, EN)
- none (789954185, EN)
- *None* (793409884, ES)
- *none* (800595120, CN)
- Not sure what you mean by scale? We need occurrence points - between 30 meters and 1 km based on the remote sensed data we are modeling the data against. (788192263, EN)
- Occasionally used in natural community descriptions. (797508056, EN)
- *Pachyderms: Elephant. Ungulates: Buffalo. Antelopes from south Guinea: Kob, roan antelope. Antelopes from Sahel-Sahara: Addax, oryx, Barbary sheep. Gazelles: Dama gazelle, red-fronted gazelle, bushbuck. Ostrich.* (802818378, FR)
- *Pathogens, especially* (808963397, ES)
- Region within country - for fungi (788092186, EN)
- Typically N/A at present (803995773, EN)
- We work at multiple scales - from global (range-wide) to local populations. (811046108, EN)
- What, are "Microbes"???? Prokaryota? Yeasts? Other small fungi? (797175250, EN)

## 20 - What are the most important characteristics that you generally want for species occurrence data? Other (please specify)

- Ability to filter out observational data where I cannot verify identifications (789623369, EN)
- accompanying oceanographic data (797909081, EN)
- *Altitudinal range, extinction risk category, and uses* (793087734, ES)
- all of above + descriptions, phenology, sequences etc, etc. (796392897, EN)
- All original specimen / record data, including outdated original scientific name, environmental data associated with record, and collector & museum metadata (804382493, EN)
- Associated species (810057771, EN)
- *Behavioural data, breeding times...* (807592721, ES)
- *Biological attributes of species: reproduction, growth, feeding, migration* (794025942, ES)
- by 'habitat description' I would also desire host information for symbiotic taxa (788287211, EN)
- Collector information, substrate description, associated species (810168013, EN)
- county - not georeference data for its centroid. (788092186, EN)
- Check-lists for taxa, Identification Keys to species (795908935, EN)
- *Data about non-type specimens originating all other data (repository)* (788526261, ES)
- *Data collecting method, author* (807601453, ES)
- data on species identification, e.g. who & when (804168602, EN)
- *Description of the used protocol (e.g. in Entomology: type of trap, observed parameters)* (799720113, FR)
- Detailed taxonomic information (as found on WoRMS etc) to ensure validity of species names  
Species range (if known) is also very useful. The critical thing is the geo-reference precision. (803995773, EN)
- *ecological background information of animals and plants* (810604407, CN)
- *Ecology and observations about taxa* (798229727, ES)
- Habitat (general location) description is important for cross checking the georeference (791208480, EN)
- How odd that "accurately identified species data" is not an option! (810548447, EN)
- How the data was collected (GPS, taxonomic key, etc.) (788192263, EN)
- If published, need publication data. (804411845, EN)
- *life history descriptive data* (800431260, CN)
- *Links to original papers* (809504663, ES)
- list of countries where the species was recorded (e.g. from country checklist) (804100411, EN)
- literature references (789950710, EN)
- *Morphological and molecular identification* (807630696, ES)
- *museums or institutions with particular specimens* (799090046, CN)
- other specimens (also non-types), with images, and an easy way to see if there are any images (788670827, EN)
- other specimens in addition to the types that are in scientific or private collections (788162326, EN)
- Phenology data (809896381, EN)
- population density and how survey was conducted (804127770, EN)
- protologue or link to protologue; other typification information; link to floras and other descriptions; link to other publications (788714731, EN)
- Site name, dates of observation, quality ranking (797508056, EN)
- sounds (805771465, EN)
- *Species descriptive data* (810126145, ES)

- species lists (799331109, EN)
- *species records in Taiwan* (811762206, CN)
- *Status (endemism, protection, invasive character)* (805722057, FR)
- There is a very strong need for synonyms of species names. It would be incredibly useful to have a database of historic & alternate names and synonyms to search on. Many collections do not have updated taxonomy and it would be good to choose from a list of other possibilities to make sure the search is inclusive. (791614428, EN)
- threats trends abundance invasiveness concept name / reference accuracy of species identification presence / absence (negative survey data) (811046108, EN)
- *Time series evolution, historical time series* (806756252, ES)
- voucher/publication status, associated GENBANK #s (810578140, EN)
- WHO identified the material is an important part of Source of Information. (788459249, EN)
- establishing "AfriBats", an integrated database on taxonomy, distribution and conservation of African bats (Chiroptera) - species distribution / ecological niche modelling with the dataset above (804168602, EN)

## 21 - Does GBIF mobilised data satisfy your needs? Please specify for what applications you use GBIF data

- *Accompanying species for those showing up in my samplings of my working phylum (Arthropoda)* (806267880, ES)
- As a source of primary data from germplasm collections, but the "biological status of sample"/ crop cultivar type is missing from the GBIF data portal (I consider that this is the most important missing attribute for the germplasm thematic domain). (790004352, EN)
- *Biodiversity studies* (793076383, ES)
- *Biogeographical studies. There are just datum and taxonomical validation missing.* (790646093, ES)
- *Biological richness analysis in protected natural areas and human-affected areas* (790077577, ES)
- *Corological reports and studies* (797014335, ES)
- Checking for species range vs. specimens (789623369, EN)
- Checking names and taxonomic status of species, mapping occurrences (804595709, EN)
- *Data bases for conservation priorities* (789736560, ES)
- *data format designed for higher organisms is not suitable for microorganisms; morphology and characteristics may vary among different strains of same species* (800536896, CN)
- descriptive (790612784, EN)
- Determining general species ranges and museum specimen availability. (791208480, EN)
- Developing models of species ranges across continentalscale landscapes. (796675742, EN)
- Distribution of species of fungi. (799368736, EN)
- *Distribution, presence and absence, biodiversity, etc.* (808694797, ES)
- distributional information (796392897, EN)
- distributions, finding specimens (788714731, EN)
- *Ecological, biogeographical and conservation analyses* (793316601, ES)
- *excel* (803222165, CN)
- For compiling distribution maps of the plants I study, and for obtaining niche characteristics associated (804101235, EN)
- *For Environmental Management, habitat description, water projects, faunistic development* (791128694, ES)
- *For the analysis of our local and regional ecological environment* (794211825, ES)

- *general usage, can not estimate at present time* (811707505, CN)
- *Geographical and altitudinal range maps, endemism revision* (789263477, ES)
- *Global range maps of weeds. Conservation-related species ranges (catalogued, rare). Invasive species distribution* (809335155, ES)
- Hard to get - too long and crashes. (788900448, EN)
- have not used such data - what is 'mobilised' data? (788687099, EN)
- Haven't used GBIF data (791161686, EN)
- Haven't used it --- underaware of it (790094310, EN)
- <http://data.gbif.org/datasets/resource/93> datatransfer into STERNA as RDF under construction (799292774, EN)
- I am not familiar with GBIF mobilised data, yet (807306375, EN)
- I checked GBIF, but the data were not satisfactory, often because specimens were not identified to species level (796655048, EN)
- I dont know what it means ("GBIF mobilised data") therefore probably not - it would be nice if you used less jargon (804726894, EN)
- I don't know yet- haven't tried it (806578418, EN)
- *I have never used GBIF data* (798873040, FR)
- *I have never used them, I didn't know they existed* (790384501, ES)
- I have not tried using this data before, I will now however. (788717734, EN)
- I have not used because of difficulties on accessing the website (789977268, EN)
- *I have only used data from Conabio, FishBase, Neodata II and other scientific collections of Universities* (794025942, ES)
- *I have seldom used GBIF data. My uses were simple consultations that in the end I completed with information from other databases, photos, etc.* (797420204, ES)
- *I have very seldom used it -- can't evaluate* (806487291, ES)
- *I haven't used GBIF and thus can't give an answer* (809202854, ES)
- I haven't used GBIF data yet. (797815963, EN)
- *I haven't used them as I didn't know* (809190344, ES)
- *I haven't yet used GBIF data* (804951687, FR)
- *I haven't yet worked with these data. I will.* (804140284, FR)
- I use the data as a quick reference - e.g. a distribution map for a talk. However, the quality of the data is not yet reliable enough to fulfill taxonomic standards (is determination correct? does the taxon occur naturally in a given locality?) (789950710, EN)
- I wonder how GBIF relates to WoRMS (World Register of Marien Species) and OBIS, which are very useful for my needs. (807649898, EN)
- *Information* (804928277, ES)
- *Information analysis and initial plant lists* (790473914, ES)
- investigation of phytoplankton occurrence data (797909081, EN)
- *It complements the information research about selected biological groups* (791081861, ES)
- It's an unbelievably valuable data source. I have published 9 papers relying on the data. (803743468, EN)
- *Knowledge of species range* (796640001, ES)
- *Literature records of taxa in my study area* (807624753, ES)
- *Locality listings for the species* (789456090, ES)
- *Looking for herbarium material, species range, collection location, substrata* (807636396, ES)
- mainly taxonomic purposes (789950246, EN)

- *Mainly for systematics of the studied groups. GBIF data are useful at the same level as other aggregated data from other sites, more or less specific. Globally, due to the specialization of the groups, the data collection is mainly done through the colleague community of specialists and the literature.* (797563184, FR)
- *Map preparation, indicator or endangered species chorology, biogeography* (799744522, ES)
- mapping (805771465, EN)
- modelling distributions, checklists (808236440, EN)
- *N/A* (806547864, ES)
- *Normally they help me get an overview of the collections that may have interesting specimens. To request them or to take data from collection labels.* (802031346, ES)
- not sure (790122286, EN)
- occurrence data - a larger number of georeferenced records would greatly improve the value! (798262770, EN)
- occurrence info (788512581, EN)
- Often but not always useful. (793207067, EN)
- *outside the scope of usual need* (797394842, CN)
- *Performing environmental studies* (793914530, ES)
- *Phytogeography. Species collection for Chemists, Biochemists, Pharmacists...* (788686273, FR)
- *Presence and range data evaluation* (806753199, ES)
- *Primary data already existing* (807586134, FR)
- *Project planning, field sampling prospection* (790588481, ES)
- provincial and national species checklists, distribution information. (804500588, EN)
- *Range maps* (810014479, FR)
- researching species distribution and occurrence over time for species assessment and conservation, and to determine context for records that I collect (810168013, EN)
- Scientific studies (796220458, EN)
- *Searching information about type specimens and range of distribution of the species* (796595424, ES)
- See distributions of species (795908935, EN)
- Species conservation assessment. Surveys and inventory. Targeting for conservation and collecting. Change analysis for climate change. (810034473, EN)
- Species distributions. (788173303, EN)
- *Species location for sampling* (808740058, ES)
- *Species modelling* (794026967, ES)
- *Species range analysis* (810758307, ES)
- *Study on the diversity and ecogeography of the genus Lupinus in Colombia* (800394959, ES)
- taxonomy, biogeography, ecology (789013767, EN)
- Taxonomy, species occurrences, biogeography, links to local portals (back tracking) (790300687, EN)
- *Territorial studies. Completing data from other web sites* (807602390, ES)
- That is likely because I'm not aware of it. (788052928, EN)
- *There are many errors and it cannot be decided whether they are actually errors--much information is lacking about what collections the specimens are in, and to whom to address for error correction* (807149821, ES)
- To date, I have not used GBIF data (788118223, EN)
- To determine what species occur in Alaska; most of the data have yet to be digitized so until GBIF is well over the 50% mark it will be only partially useful. (788368913, EN)

- To find presence data for arthropods mostly in other countries. It is a starting point at any rate..its very slow accessing the download information (790534038, EN)
- *To generate species range maps, biological richness, biological importance* (797732559, ES)
- *Transfer of data to the research centers when they need it* (788247905, ES)
- Trend analysis, ENM. Planning collecting trips. Teaching. (788718259, EN)
- understanding distribution patterns from national to global scale (796643378, EN)
- Use OBIS/GBIF data for biodiversity and macroecology studies (803995773, EN)
- used minimally at this point, hope to use more extensively in future. (796216693, EN)
- *Verification of nomenclatural and taxonomical data (rank, synonymy...), species range, host plant association* (800587696, FR)
- We at NBRI browse GBIF primary data records mostly in our taxonomic /systematic and floristic assessment studies. (809896381, EN)
- We use it when we have a problem with worldly taxonomic problems (especially Africa and S. America), we use our own Flora's for local and region taxonomy. (810238490, EN)
- We want to include GBIF marine data on OBIS, but have so far not realised this connection (789544287, EN)
- What is GBIF mobilised data? (788192263, EN)
- What the heck is mobilised data? Again, speak User. (788123063, EN)
- (797388642, EN)
- *1G* (803222165, CN)

**22 - If GBIF mobilised data is partially or absolutely not useful for your applications, we would like to know which needs are not satisfied by the GBIF mobilised data? (please specify details in the text box in front of each category): Type of data:**

- *A field for habitat. Specimens pictures* (796640001, ES)
- *About my working group, Mesostigmata mites* (806647162, FR)
- *All available* (793098908, ES)
- associations: host/pathogen, pollinator/pollinated etc & structured survey data according to a defined methodology (796392897, EN)
- *Available for country* (802534229, ES)
- *Based on non-type specimens* (807617434, ES)
- Common Tracks are not provided (796324699, EN)
- Coral Geographic has provided distribution global distribution data since the early 1980s (802988610, EN)
- Cultivar type (landrace, modern cultivar, wild, genetic stock, breeding line) is missing as attribute for the specimens (790004352, EN)
- *Data bases* (796603939, ES)
- *Data should come only from current and consultable collections* (802031346, ES)
- detail is often insufficient (810168013, EN)
- Detailed spatial locations (801835961, EN)
- For trees, it is a problem that planted specimens e.g. in parks are included - only wild occurrences (including naturalized) are useful (796220458, EN)
- fossils (788950260, EN)
- georeferenced presence data (796658636, EN)
- *Habitat quality for the species* (804961333, ES)
- I need to see and study specimens (788162326, EN)

- *Incomplete data bases* (802155962, FR)
- *Information on Basidiomycota of the Neotropical area* (804198863, ES)
- insufficient for plants (804829371, EN)
- just captures some fields (791311969, EN)
- matrices (804416321, EN)
- Metadata of completeness is not available. (788718259, EN)
- more complete data sets, e.g. comparing output through GBIF and MaNIS (804168602, EN)
- More data from additional museum collections (791208480, EN)
- Morphological data for primary types at species level. Digiphotos, if available, are not always sufficient for species-level comparison (804913571, EN)
- Names. Occurrence Records. Species information. Biotic associations. Mesohabitats & microhabitats. Biotope characterisation. (788745446, EN)
- not on the current state of synonymie (789950246, EN)
- *Presence and absence of Crustacea Decapoda. Commercially-important species. Catch volume.* (804372510, ES)
- *Protected species and protected areas* (794211825, ES)
- *Records* (789561787, ES)
- *Registered and collected* (788855019, ES)
- sampling processes are nearly always so poor rthe data is not of any use to me (804127770, EN)
- see previous answers (796017111, EN)
- sometimes really scarce even for abundant and widespread taxa (790517746, EN)
- special reference to type specimens (highlighted), access to sound multimedia data (805771465, EN)
- *Specimen data are of low quality. They aren't georeferenced, or they are done badly.* (798229727, ES)
- *specimens* (810014479, FR)
- taxonomic data (788714731, EN)
- *The data format is not adapted to the internal data base* (807586134, FR)
- Too few data for small fungi, bacteria, viruses, nematodes, pathogenic insects (797175250, EN)
- unable to find any reliable and useful data in the GBIF portal (804966964, EN)
- We would like to know if the data is observational, from collections, and the collectors qualifications to ID (810238490, EN)
- zooplankton (808696643, EN)
- *10000* (804198863, ES)

**22 - If GBIF mobilised data is partially or absolutely not useful for your applications, we would like to know which needs are not satisfied by the GBIF mobilised data? (please specify details in the text box in front of each category): Data Volume/quantity:**

- biomass and abundance (808696643, EN)
- Coverage is dense for a few countries but still quite poor for most tropical countries. (796675742, EN)
- Data is patchy. (788718259, EN)
- *Data volume not limited to 250,000 occurrence records per download. At least one million records should be downloadable at once.* (790256163, ES)
- detailed (788714731, EN)

- *Few specimens listed per search* (798229727, ES)
- high (805771465, EN)
- *I believe that the information existing in GBIF is scant at the regional data* (807624753, ES)
- Important- difficult to gauge what might be missing (808459923, EN)
- Incomplete data sets (788173303, EN)
- Insect specimen data is <10%, maybe <5% of all possible records. (788368913, EN)
- insufficient distinction between collection & observation data and inaccessible metadata about observational data (796392897, EN)
- insufficient for plants (804829371, EN)
- is getting there (789950246, EN)
- *It is necessary to integrate data from smaller collections* (793316601, ES)
- *Large* (810014479, FR)
- *Many* (789561787, ES)
- *Many data sources are missing* (804239602, ES)
- *Many oceanographical data are missing that may help ecologically interpreting the data* (805186352, ES)
- more is always better (810168013, EN)
- More is better, but that's not a very insightful remark. (803743468, EN)
- More volume per taxa would be better (796324699, EN)
- Need as many collection as possible for a species! (810034473, EN)
- Not enough (796007832, EN)
- Not enough known data is available - yet - in the test cases I tried. (804315730, EN)
- not much available from the Indian Subcontinent (804862322, EN)
- Not sufficient (804123890, EN)
- *Number of collected samples: four specimens* (788855019, ES)
- *Often scant for a certain taxon* (799348997, FR)
- Often too scarce outside North America and North and Central Europe (796220458, EN)
- Only limited amounts of data are available. (788027187, EN)
- The more data the better (803995773, EN)
- *Those available from one country* (802534229, ES)
- too few georeferenced collection data (798262770, EN)
- Too long and crashes (788900448, EN)
- *Very few data regarding arthropods* (797564964, ES)
- very little relevant to islands (804966964, EN)
- Virtually nothing for "my" taxa in "my" geographical areas (Afrotropics & Central America). (788745446, EN)
- *X* (805947884, ES)

**22 - If GBIF mobilised data is partially or absolutely not useful for your applications, we would like to know which needs are not satisfied by the GBIF mobilised data? (please specify details in the text box in front of each category): Spatial extent:**

- *500m* (803222165, CN)
- Africa not covered sufficient (796007832, EN)
- *Africa tropical regions* (807617434, ES)



- Afrotropical Region. Central America. (788745446, EN)
- Collection are often patch (ie over collected in one area and missing in others), but a fact of historic collections! (810034473, EN)
- Country-wide gaps are very unhelpful but still exist. (803743468, EN)
- Data is patchy. (788718259, EN)
- fine but always inaccurate (804966964, EN)
- global (788714731, EN)
- global (805771465, EN)
- Important - difficult to know what might be missing (808459923, EN)
- *Important voids exist* (796647418, ES)
- *Inssufficient couverture at the local scale for the Réunion Island* (805722057, FR)
- insufficient for plants (804829371, EN)
- *Local* (794211825, ES)
- locally very good but on broader scales with gaps (789950246, EN)
- *National, global* (810014479, FR)
- *National, Mexico* (789561787, ES)
- *No precise local couverture* (807586134, FR)
- Not enough regions are well represented for the plants I study. (810057771, EN)
- *Not very complete for a good understading of the species ranges* (801091995, FR)
- Often too spatially biased (796220458, EN)
- Pacific ocean (808696643, EN)
- South east Asia not covered (804862322, EN)
- *Species existing in Camerun are missing from the Database* (788686273, FR)
- still some big regional holes in the data (796392897, EN)
- The absence of data from most of Asia is a problem for the groups with which I work. (788092186, EN)
- *There are state-level voids* (790077577, ES)
- *Tropical* (796603939, ES)
- Very little in northern Canada (788900448, EN)
- *What is available for a country* (802534229, ES)
- *World, regional and national levels* (804961333, ES)
- Worldwide (804913571, EN)
- yes (797909081, EN)
- *Yes* (800394959, ES)
- "complete" (788714731, EN)

**22 - If GBIF mobilised data is partially or absolutely not useful for your applications, we would like to know which needs are not satisfied by the GBIF mobilised data? (please specify details in the text box in front of each category): Taxonomic coverage:**

- *1:1 million* (811524723, CN)
- *A lot of work is yet lacking as regards to marine species inventories* (805186352, ES)
- *About my working group, Mesostigmata mites* (806647162, FR)
- Africa not coverede sufficient (796007832, EN)

- *All groups* (810014479, FR)
- angiosperms, spermatophyta general, bryophytes (804416321, EN)
- *Animal and plant* (789561787, ES)
- *Arachnids and Gasteropoda are not well covered* (807617434, ES)
- *Arthropoda* (796603939, ES)
- Authoritative taxonomies for invertebrates, especially arthropods (804595709, EN)
- *Aves* (799292774, EN)
- *Basidiomycota, Agaricomycetes* (804198863, ES)
- Coleoptera primarily, + other Insecta to a degree, + Arthropoda in general to a lesser degree. (788745446, EN)
- coverage of arthropods is sorely incomplete and taxonomically out of date. (804500588, EN)
- does not cover mites (Arachnida: Acari) very well, especially for the region I am most interested in (Canada) (788287211, EN)
- European data for my group not adequately represented in GBIF (Hymenoptera, Apoidea, Apidae) (795908935, EN)
- Family Geometridae (Lepidoptera) (804913571, EN)
- I find the built in taxonomy frustrating at times (788092186, EN)
- *Incomplete data bases* (802155962, FR)
- *insects* (809786057, CN)
- insufficient focus on coverage for thematic data-sets - invasives, pathogens, rare & threatened etc (796392897, EN)
- insufficient for plants (804829371, EN)
- Links to medical entomology would be helpful - more on anophelene mosquitoes, for instance. (803743468, EN)
- Many plant species missing (810034473, EN)
- *Marine and littoral Crustacea Decapoda* (804372510, ES)
- *My taxon group is poorly covered* (788526261, ES)
- national first, but global is NB for work (793276439, EN)
- Need better coverage for the smaller invertebrate phyla (788459249, EN)
- Not adequate (788046697, EN)
- not complete (805754411, EN)
- *not completed* (804882356, RU)
- Not sufficient (804123890, EN)
- Plant data not covered (804862322, EN)
- *Range* (790748084, ES)
- reasonable (804966964, EN)
- *Same as above* (796647418, ES)
- *the more the better* (803222165, CN)
- The problem is that information on many insect species is not available through GBIF as institutional collections rarely have their insect collections databased. (788093150, EN)
- up to date list of Fungi required (804100411, EN)
- *Very few data regarding arthropods* (797564964, ES)
- We would like to understand how the world is looking at a species, since this can be quite different. (810238490, EN)
- *What is available for a country* (802534229, ES)

- *yes* (789950246, EN)
- *Yes* (800394959, ES)
- *Yes* (805947884, ES)
- *yes* (807586134, FR)

**22 - If GBIF mobilised data is partially or absolutely not useful for your applications, we would like to know which needs are not satisfied by the GBIF mobilised data? (please specify details in the text box in front of each category): Georeference quality:**

- *a number of errors* (797564964, ES)
- *Africa - poor* (796007832, EN)
- *at least some level of geospatial assignemnet. Specific issues around exact localities are over-stated IMHO* (796392897, EN)
- *Beggars can't be choosers.* (788745446, EN)
- *Data are not precise enough, nor adapted to local needs* (807586134, FR)
- *data dependend* (789950246, EN)
- *data from the Indian Subcontinent not covered* (804862322, EN)
- *Data is off when GIS, projection need correction* (788900448, EN)
- *Datum indication in UTM coordinates, or datum normalization for the different data providers* (796640001, ES)
- *Defective* (798229727, ES)
- *error within 10m* (803222165, CN)
- *Few georeferenced data* (796647418, ES)
- *Few georeferenced specimens* (799348997, FR)
- *Generally unspecified* (810014479, FR)
- *Georeferenciation approximation* (797014335, ES)
- *good quality but always incorrect in practice* (804966964, EN)
- *GPS needed* (788855019, ES)
- *High* (796603939, ES)
- *high accuracy* (788714731, EN)
- *I should need to know automatically what 10-km and/or 1-km UTM squares the records refer to* (799744522, ES)
- *important but tools are available - good links to tools would be good* (808459923, EN)
- *Include datum* (790646093, ES)
- *Information quality heterogeneous, and minimal available information* (810758307, ES)
- *insufficient for plants* (804829371, EN)
- *lack of distribution data* (798178007, CN)
- *Many data are not georeferenced or are badly georeferenced* (793316601, ES)
- *Maximum* (804198863, ES)
- *More precise georefernced data, and especially uncertainty data, are needed* (808694797, ES)
- *Needed* (789561787, ES)
- *No adequate georeferencing* (804239602, ES)
- *not always clear how coordinates were retrieved / how reliable they are* (796643378, EN)
- *Often vague* (788459249, EN)

- Poor - uses automatated gazetteer coordinates, rather than human interpretation of actual data (788173303, EN)
- poor, often using inappropriate national centroids (796658636, EN)
- Quantity of georeference can often be a little iffy. (810034473, EN)
- sometimes very coarse resolution (790517746, EN)
- There are some simple errors, using "-" where a postive value is actual (796324699, EN)
- This is better than it used to be and, for continental level maps, probably Ok. (788092186, EN)
- This is the tough one, as this would be great, but we all need \$\$ to work on our datasets (810238490, EN)
- *To establish and approximate georeferncing, even if this is lacking from the label* (802031346, ES)
- *What is available for a country* (802534229, ES)
- *Wrong georeferencing not rare* (809335155, ES)
- *yes* (800394959, ES)
- *Yes, most important* (804961333, ES)

**22 - If GBIF mobilised data is partially or absolutely not useful for your applications, we would like to know which needs are not satisfied by the GBIF mobilised data? (please specify details in the text box in front of each category): Taxonomic quality:**

- a give (793276439, EN)
- *A given taxon can appear under different names, which makes it difficult to collect range information* (809335155, ES)
- accurate citation of (804416321, EN)
- adding name & date of person who identified specimen (although frequently not recorded in collections) (804168602, EN)
- Africa - poor (796007832, EN)
- and name can often be a little iffy! (810034473, EN)
- Completely inadequate (788046697, EN)
- Coral Geographic has very stringent quality control and a coverage not provided by other sources (802988610, EN)
- *Correct identification of taxon* (797014335, ES)
- Definitely not sufficient (804123890, EN)
- Digital data can not be checked against original material and therefore are not reliable. There is a constant source of un certainty depending oin the quality/experience of the persons identifying material that goed into a database (804376501, EN)
- *Genus* (803222165, CN)
- GBIF has no synonymic expansion - a big hole (796392897, EN)
- good (804966964, EN)
- *High* (796603939, ES)
- highest possible!!! (788714731, EN)
- Identifications have not been verified by an expert in many cases (810057771, EN)
- *Important* (804961333, ES)
- important need to know source of determination (808459923, EN)
- *In GBIF there is little synonymy for names, so that a taxon can be found under different names* (796595424, ES)
- *Indicate whether data have been verified by experts* (802031346, ES)
- insufficient for plants (804829371, EN)

- *It requires handling synonyms, as these are not explicitly stated* (810758307, ES)
- *Maximum* (804198863, ES)
- More reliable taxonomic data needed (ITIS not THE authority for my group, Hymenoptera, Apoidea, Apidae) (795908935, EN)
- Non-negotiably perfect. (788745446, EN)
- not always clear how reliable identifications are (name & date of identifier) (796643378, EN)
- *Not all information has been verified or updated by experts* (805186352, ES)
- not on the current state of synonymie (789950246, EN)
- not well verified (805754411, EN)
- *OK* (807586134, FR)
- Poor - little quality control or periodic review (788173303, EN)
- Poor quality of identifications, and for tunicates, many cases of incorrect IDs or species that are NOT DESCRIBED to the SPECIES LEVEL! Same is true of other invert groups (788459249, EN)
- poor, data clearly contain many misidentifications (796658636, EN)
- *Precise* (789561787, ES)
- *Recording names "in sched", and need for search of all synonyms* (804192012, FR)
- scientific names (ITIS) and basionymes (799292774, EN)
- *Some data are not updated according to the valid names* (793316601, ES)
- *species level* (809786057, CN)
- *Specific field for subgenus in Animals* (796640001, ES)
- Specimens need to be identified to species level (796655048, EN)
- synonymy in Crataegus spp. is problematic; source? (810578140, EN)
- Taxonomic precision is key, especially for diverse / less well studied groups (803995773, EN)
- taxonomic quality/depth is not high for nematodes (804353663, EN)
- *The few records I found do not specify on what specimens (repository) are based* (788526261, ES)
- *the taxonomic structure seems not based on molecular research, i.e. APG for vascular plant* (811712867, CN)
- *Thereis not a section about the valid names an synonymies* (788686273, FR)
- unavailable (804291266, EN)
- *Uncertain* (802155962, FR)
- *Uncertainty about identification accuracy* (797563184, FR)
- Unfortunately, Insecta: Diptera: Asiloidea specimens are often misidentified in museum collections. I find this out through my taxonomic revisionary work. (788093150, EN)
- uses only one taxonomy as a standard not useful for crops at the lower level of classification (791311969, EN)
- We need more curation in all collections, to keep our records updated properly, as it is hard to keep up. (810238490, EN)
- *What is available for a country* (802534229, ES)
- Who knows? One really cannot judge it - one can only hope. (788092186, EN)
- *yes* (805947884, ES)
- *yes* (797909081, EN)
- *Yes* (800394959, ES)

**22 - If GBIF mobilised data is partially or absolutely not useful for your applications, we would like to know which needs are not satisfied by the GBIF mobilised data? (please specify details in the text box in front of each category): Age of data:**

- *after 1980* (803222165, CN)
- *All* (804198863, ES)
- all ages (from the beginning of the time or as close as possibly and to present) (788714731, EN)
- *All currently available* (789561787, ES)
- all record (804416321, EN)
- *Ample* (796603939, ES)
- Any and all. (788745446, EN)
- *Collecting dates unavailable; these are needed for my analyses* (794026967, ES)
- Definally need to know age of data, we do not have this in our database. (810238490, EN)
- geologic age (788950260, EN)
- *It is necessary in order to analyze species colonisation in an area* (810758307, ES)
- *It is often lacking* (807149821, ES)
- *Many data do not contain dates* (793316601, ES)
- Need more early data. Need to go back to verify early museum specimens and provide species names. (788459249, EN)
- Need to be known (810034473, EN)
- Not enough historic data on distributions (795908935, EN)
- Poor (796007832, EN)
- *provide citations for occurrence and scientific names* (811712867, CN)
- *Recent taxonomical revisions haven't been included* (807586134, FR)
- Seldom updated (788173303, EN)
- *Uncertain* (802155962, FR)
- *What is available for a country* (802534229, ES)
- *Wide range of dates in order to allow for comparisons* (804961333, ES)
- *yes* (805947884, ES)

**22 - If GBIF mobilised data is partially or absolutely not useful for your applications, we would like to know which needs are not satisfied by the GBIF mobilised data? (please specify details in the text box in front of each category): Others (please specify)**

- *Although we are active, we simply don't yet use these data* (803358761, RU)
- Being able to resolve mapped data by state with the United States. Ex.: search for *Euphorbia agraria*; I don't see a way to resolve the map to tell which states the observational data is really from! (789623369, EN)
- *can allow for raw data downloading* (811763921, CN)
- *Checking and cleanup of data is necessary* (797014335, ES)
- Data could be better organised (803718291, EN)
- data on animal species distribution are too incomplete and reliability cannot be checked (789429095, EN)
- details of habitat (789954185, EN)
- distinction between natural occurrence and human introduction, e.g. in a garden, or as a weed (789950710, EN)
- *Either the question is incorrectly worded or I don't understand it* (804928277, ES)

- have never looked into this (805778517, EN)
- I am not familiar with GBIF mobilised data, yet (807306375, EN)
- I believe that the data is useful as is but I've just not gotten to take advantage of it. (792934475, EN)
- i do not know (804946772, EN)
- *I don't know* (809190344, ES)
- I don't really know (804182347, EN)
- I dont use the GBIF data already (804268975, EN)
- *I have never attempted to work with them* (808942120, ES)
- I have not used GBIF for primary information before; I need to investigate what options are possible. (788371183, EN)
- I may not know well enough how to get the data in suitable form (799368736, EN)
- I was unaware of GBIF prior to this survey. Also, our needs are met well in house with the data we have. (797508056, EN)
- *Infraspecific names, cultivar names* (804192012, FR)
- It takes too long to download the files. I have restricted time to research each species.. (790534038, EN)
- *Many local collections have undigitised ledgers* (790077577, ES)
- more high quality georeferenced data (791614428, EN)
- Names data are really useful, together with uBio like services for matching and detecting. Problem is accessibility: Matching/merging with existing data sets (797175250, EN)
- never heard about it before (788670827, EN)
- Not in my research needs (804411845, EN)
- *Scarcity of the above data for Phylum Arthropoda* (806267880, ES)
- The identification quality control in GBIF and the lat long quality controls are poor. There are records of bees from Australia that actually refer to Arizona - the NS EW coordinates having been entered the wrong way round! (810548447, EN)
- the region of my interest India, is not completely covered, hence getting only fragmentary data (794212955, EN)
- *To be reviewed* (794025942, ES)
- *To simplify access and data finding, especially for local data* (797469049, ES)
- yes (804182347, EN)

### **23 - What type of data would you like to see becoming increasingly discoverable and accessible through GBIF? Taxonomic Names/Checklist data:**

- *all* (791010796, ES)
- *all* (810646790, CN)
- *all categories* (793098908, ES)
- *All valid names and synonyms* (788686273, FR)
- *already supplied by others -- why duplicate?* (801621840, FR)
- *Animal and Plant* (789561787, ES)
- *As long as they are adequately checked and are reliable* (808821546, ES)
- check lists are not that useful to me (793276439, EN)
- Checklists for regions, countries, states or defined by polygons (shapefiles loaded by users) (789918245, EN)
- *classification data* (800614907, CN)
- *current and synonyms* (794025942, ES)

- *essential element in specimen identifications* (800573355, CN)
- *Establishing whether determinations have been verified by an expert. Taxonomical keys or references to them* (802031346, ES)
- *Fishes* (812620635, CN)
- *Flora and wildfauna within some extinction risk category* (793087734, ES)
- for crop data (791311969, EN)
- Fungi are now incomplete (804100411, EN)
- Gaps in Plant data filled (808459923, EN)
- *Getting listings in an easier and more effective manner* (798229727, ES)
- Global taxonomic checklists (804220564, EN)
- Great to make list when going to a new area (810238490, EN)
- Heterogynaidae, Ampulicidae, Sphecidae, Crabronidae (805197173, EN)
- images of type specimens (804457042, EN)
- *in Zoology* (796603939, ES)
- increase species (805754411, EN)
- invertebrates (796079107, EN)
- IPNI, Tropicos, Kew checklists (788714731, EN)
- ITIS-CA seems to work a lot better than GBIF (804595709, EN)
- *IUCN conservation status* (790256163, ES)
- *Listings of names used in specific reference works, i.e. Flora Iberica* (807624753, ES)
- *name listings* (796599999, ES)
- names and synonyms (808696643, EN)
- Names are, for my taxa, better from IPNI and/or TROPICOS (788092186, EN)
- *needed* (803491645, CN)
- Nematoda (804353663, EN)
- oceanic planktonic organisms (788674644, EN)
- Only if accurate (788046697, EN)
- Other sources are usually available, hence low priority (788173303, EN)
- *Plants and animals* (794551257, ES)
- Plants, Vertebrates, Insects (801835961, EN)
- Rana (804780925, EN)
- regional check lists (796392897, EN)
- regional checklist (790334068, EN)
- *Regional listings* (807122567, ES)
- *Regnum Animalia - all species* (804882356, RU)
- *scientific names* (803275497, CN)
- *Scientific names* (804413864, ES)
- species from the Indian Subcontinent (804862322, EN)
- *species list in different geographic scales* (800590953, CN)
- *Standardized species lists* (797480134, ES)
- *synonyms* (798178007, CN)
- *Synonyms used by data holders* (796595424, ES)
- *tabulated data* (801430278, RU)



- *Taiwan and southeast Asia regions* (799090046, CN)
- Taxonomic Names/Checklist data (804150587, EN)
- *Taxonomical* (788855019, ES)
- *Taxonomy of species* (804198863, ES)
- This would be a huge advance for taxonomic searching (791614428, EN)
- This, along with crosswalks to country standards would be lovely (793207067, EN)
- *Updated list of names with their synonyms* (804951687, FR)
- *Very important* (796647418, ES)
- *very important* (804917555, CN)
- *What is available for a country* (802534229, ES)
- **yes** (788123063, EN)
- **Yes** (788192263, EN)
- **yes** (788247905, ES)
- **yes** (788368913, EN)
- **yes** (788497924, ES)
- **yes** (788533978, EN)
- **yes** (788762474, FR)
- **yes** (789102013, EN)
- **yes** (789289044, EN)
- **Yes** (789392808, EN)
- **yes** (789488116, ES)
- **yes** (789779878, EN)
- **yes** (789950246, EN)
- **yes** (790094310, EN)
- **yes** (790300687, EN)
- **yes** (790473914, ES)
- **yes** (790534038, EN)
- **yes** (790612784, EN)
- **yes** (791200661, ES)
- **yes** (791230462, EN)
- **yes** (793071056, ES)
- **yes** (794212955, EN)
- **yes** (794786851, ES)
- **Yes** (795908935, EN)
- **yes** (796160448, EN)
- **Yes** (796220458, EN)
- **yes** (796820448, ES)
- **yes** (797175250, EN)
- **yes** (797396385, ES)
- **Yes** (798217342, EN)
- **yes** (799292774, EN)
- **yes** (799331109, EN)
- **yes** (800394959, ES)

- *yes* (800458689, CN)
- *yes* (800584469, ES)
- *yes* (800595120, CN)
- *yes* (802155962, FR)
- *yes* (803296708, CN)
- *yes* (804121745, EN)
- *yes* (804165147, EN)
- *yes* (804182347, EN)
- *yes* (804192012, FR)
- *yes* (804239602, ES)
- *yes* (804273853, EN)
- *yes* (804291266, EN)
- *yes* (804325205, ES)
- *yes* (804372510, ES)
- *yes* (804483380, EN)
- *yes* (804821214, EN)
- *yes* (804913571, EN)
- *yes* (804929467, ES)
- *yes* (805186352, ES)
- *yes* (805694226, CN)
- *yes* (805947884, ES)
- *yes* (806267880, ES)
- *yes* (806724397, ES)
- *yes* (807432048, EN)
- *yes* (807543428, RU)
- *yes* (807601453, ES)
- *yes* (809180532, ES)
- *yes* (809335155, ES)
- **Yes** (809896381, EN)
- *yes* (810201330, ES)
- *yes* (810548447, EN)
- **YES** (810561764, CN)
- *yes* (813415817, CN)
- *yes* (813424731, CN)
- *yes* (813427630, CN)
- **Yes and by geography** (810034473, EN)
- **YES!** (788745446, EN)
- *yes, an electronically accessible, up to date taxonomy of all living species is the #1 priority to me.* (804500588, EN)
- *yes, concerning the Réunion Island and the Indian Ocean region and the Mascarene subregion* (805722057, FR)
- *yes, standardized names* (793791487, EN)
- *Yes, with taxonomic experts' curation or some appreciation of the reliability degree* (797563184, FR)

- zoobank, Encyclopedia of Life (788687099, EN)

### **23 - What type of data would you like to see becoming increasingly discoverable and accessible through GBIF? Specimen based Occurrence data:**

- Absolutely (793207067, EN)
- *Abundance-dominance* (807586134, FR)
- *accurate GPS data* (798178007, CN)
- accurate location below county (788512581, EN)
- Aluka, local collection databases (788714731, EN)
- amphibians, earthworms (788052928, EN)
- *As long as the repositories of provenance for each specimen's data are recorded* (788526261, ES)
- as much as possible! (789623369, EN)
- *Availability of information* (804413864, ES)
- *collected* (788855019, ES)
- *collecting records and localities* (800590953, CN)
- *collection locality and specimen depository* (803275497, CN)
- *Collector's data* (802031346, ES)
- *Complement with more herbaria or collections* (807636396, ES)
- critical (788173303, EN)
- current availability of species facing erosion from Asia (804862322, EN)
- *date, collector, collection, georeferences, localities* (794025942, ES)
- Defined by polygons (shapefiles loaded by users or a useful tool to draw polygons, instead of fixed square) (789918245, EN)
- definitely useful (788738209, EN)
- Descriptions (804150587, EN)
- Expanded coverage. (788027187, EN)
- for plants (804829371, EN)
- for the atlantic islands (804416321, EN)
- high quality data from reliably identified sources would be wonderful (796643378, EN)
- *Historical data* (796601295, ES)
- I am mainly interested in herbarium specimens. Would love an option to easily see if the records are imaged!!! (788670827, EN)
- *important* (804917555, CN)
- *In the case of plants, as long as there is a voucher deposited at some herbarium* (796830098, ES)
- *In the Neotropics* (804198863, ES)
- Inclusion of much more identified specimen data with complete place/time/collector instances (804315730, EN)
- *increasing the current level of data* (807624753, ES)
- Increasingly (788046697, EN)
- link to specimen databases for northern species (788900448, EN)
- linking to crop information (791311969, EN)
- More complete coverage of all herbaria, especially in Canada, northern Eurasia (810057771, EN)
- More of this please (810238490, EN)
- More of this. (788718259, EN)

- *museum and specimen numbers in the collection* (799090046, CN)
- Natural history collection data (791614428, EN)
- Nematoda (804353663, EN)
- no (797175250, EN)
- ok but overrated. Not much we can do with data on northern hemisphere museum collections. (796392897, EN)
- Plants (801835961, EN)
- regional checklists (804220564, EN)
- *Sufficiently checked* (808821546, ES)
- *tabulated data* (801430278, RU)
- Tracks, Nodes, Masses, & Baselines (796324699, EN)
- Useful only when names of identifiers are supplied with the records (804376501, EN)
- *very important* (796647418, ES)
- *What is available for a country* (802534229, ES)
- *yes* (813427630, CN)
- **Yes** (788092186, EN)
- **Yes** (788093150, EN)
- **Yes** (788192263, EN)
- *yes* (788247905, ES)
- *yes* (788368913, EN)
- *yes* (788497924, ES)
- *yes* (788762474, FR)
- *yes* (789102013, EN)
- **Yes** (789392808, EN)
- *yes* (789429095, EN)
- *yes* (789488116, ES)
- *yes* (789779878, EN)
- *yes* (789950246, EN)
- *yes* (790077577, ES)
- *yes* (790094310, EN)
- *yes* (790300687, EN)
- *yes* (790473914, ES)
- *yes* (790517746, EN)
- *yes* (790534038, EN)
- *yes* (790612784, EN)
- *yes* (791200661, ES)
- *yes* (791230462, EN)
- *yes* (793791487, EN)
- *yes* (794212955, EN)
- *yes* (794551257, ES)
- **Yes** (795908935, EN)
- **Yes** (796007832, EN)
- *yes* (796160448, EN)

- **Yes** (796220458, EN)
- **yes** (796603939, ES)
- **yes** (796655048, EN)
- **yes** (796820448, ES)
- **yes** (797396385, ES)
- **yes** (797480134, ES)
- **Yes** (798217342, EN)
- **yes** (798601169, EN)
- **yes** (799292774, EN)
- **yes** (799348997, FR)
- **yes** (800394959, ES)
- **yes** (800458689, CN)
- **yes** (801621840, FR)
- **yes** (802155962, FR)
- **yes** (803296708, CN)
- **yes** (803358761, RU)
- **yes** (804121745, EN)
- **yes** (804165147, EN)
- **yes** (804239602, ES)
- **yes** (804273853, EN)
- **yes** (804325205, ES)
- **yes** (804372510, ES)
- **yes** (804483380, EN)
- **Yes** (804743560, EN)
- **yes** (804821214, EN)
- **yes** (804913571, EN)
- **yes** (804961333, ES)
- **yes** (805186352, ES)
- **yes** (805694226, CN)
- **yes** (805947884, ES)
- **yes** (807432048, EN)
- **yes** (807543428, RU)
- **yes** (807601453, ES)
- **yes** (807617434, ES)
- **yes** (808459923, EN)
- **yes** (809180532, ES)
- **Yes** (809896381, EN)
- **yes** (810014479, FR)
- **yes** (810201330, ES)
- **yes** (810548447, EN)
- **YES** (810561764, CN)
- **yes** (813424731, CN)
- **yes** (800595120, CN)

- *yes* (813415817, CN)
- (YES) (788745446, EN)
- Yes as much as possible but with quality know! (810034473, EN)
- yes this is the only type of data that entomologists trust in light of constantly-changing taxonomy (804500588, EN)
- YES! (788745446, EN)
- *Yes, associated to the collecting locality, for flora and fauna* (807592721, ES)
- yes, but more precise (796658636, EN)
- Yes, this is key to determining the accuracy and precision of the records. (796675742, EN)

### **23 - What type of data would you like to see becoming increasingly discoverable and accessible through GBIF? Observation based Occurrence data:**

- *yes* (813424731, CN)
- *yes* (800595120, CN)
- *yes* (800458689, CN)
- *yes* (803296708, CN)
- YES (810561764, CN)
- *needed* (803491645, CN)
- *important* (804917555, CN)
- *collection records* (803275497, CN)
- Also important (793207067, EN)
- altitudinal data (789950710, EN)
- amphibians, earthworms (788052928, EN)
- associations (804220564, EN)
- *Data based on occurrence of species, indicating occurrence areas* (791010796, ES)
- Defined by polygons (shapefiles loaded by users or a useful tool to draw polygons, instead of fixed square) (789918245, EN)
- *documented by date, observer, site, locality, georeference* (794025942, ES)
- entirely unreliable in my group (810548447, EN)
- for the atlantic islands (804416321, EN)
- good, but needs "reliability" estimate (788173303, EN)
- *Historical data* (796601295, ES)
- *Indicating source as a reference of the assumed reliability of observations* (807624753, ES)
- less emphasis here - unless it can be easily filtered. (789623369, EN)
- link to observation databases for northern species (788900448, EN)
- More of this. (788718259, EN)
- *no* (790473914, ES)
- *no* (797396385, ES)
- *no* (807432048, EN)
- no, not for insects - voucher specimens are preferable. (788368913, EN)
- *Not necessarily. Generally unreliable for insects* (797563184, FR)
- *Occurrence data based on observations* (793854941, ES)
- OK with this, but not as good (810238490, EN)
- *Only in cases of observer's high reliability, having reliable data* (802031346, ES)

- Only reliable when done by experienced researchers (804376501, EN)
- particularly GIS data (811046108, EN)
- perhaps (797175250, EN)
- Plants (801835961, EN)
- population data of plants from Indian Subcontinent (804862322, EN)
- *Regional listings* (807122567, ES)
- same as above (796324699, EN)
- *Scanned herbarium sheets with labels and collector notes (for plants)* (807586134, FR)
- *species* (804198863, ES)
- This is terrific and if sufficiently numerous, a powerful start. (803743468, EN)
- valuable but lacking associated data and metadata etc (796392897, EN)
- vertebrates and invertebrates (796079107, EN)
- very useful - if some documentation for how the observation was made, e.g. photo, link to homepage of observer to evaluate confidence, could overcome some of the restriction in shortage of georeferenced voucher specimens (798262770, EN)
- well sampled in a standardised way e.g Pollard and Yates type data (804127770, EN)
- *What is available for a country* (802534229, ES)
- yes (789102013, EN)
- Yes (788192263, EN)
- yes (788247905, ES)
- yes (788738209, EN)
- yes (788762474, FR)
- yes (789289044, EN)
- Yes (789392808, EN)
- yes (789429095, EN)
- yes (789779878, EN)
- yes (789950246, EN)
- yes (790300687, EN)
- yes (790534038, EN)
- yes (790612784, EN)
- yes (791230462, EN)
- yes (793791487, EN)
- yes (794551257, ES)
- yes (794786851, ES)
- Yes (795908935, EN)
- yes (796160448, EN)
- Yes (796220458, EN)
- yes (796603939, ES)
- yes (797480134, ES)
- yes (797909081, EN)
- yes (799292774, EN)
- yes (800584469, ES)
- yes (801621840, FR)

- *yes* (802155962, FR)
- *yes* (803358761, RU)
- *yes* (804121745, EN)
- *yes* (804239602, ES)
- *yes* (804273853, EN)
- *yes* (804325205, ES)
- *yes* (804372510, ES)
- *yes* (804961333, ES)
- *yes* (807543428, RU)
- *yes* (807601453, ES)
- *yes* (809180532, ES)
- **Yes** (809896381, EN)
- *yes* (810014479, FR)
- *yes* (810201330, ES)
- **Yes - but identifiable from vouchered records** (808459923, EN)
- **Yes as much as possible but with quality know and quality control** (810034473, EN)
- **yes but it should be accurate, as the observer must be trusted for identification** (794212955, EN)
- *Yes, associated to the collecting locality, for flora and fauna* (807592721, ES)
- *Yes, backed by photography at least* (790077577, ES)
- **Yes, but only if supported by a (virtual) voucher system to enable identifications to be confirmed.**  
(796675742, EN)
- *yes, concerning the Réunion Island and the Indian Ocean region and the Mascarene subregion*  
(805722057, FR)
- **Yes, if it is labelled as such** (804743560, EN)
- **?** (796160448, EN)
- **?yes** (788745446, EN)

**23 - What type of data would you like to see becoming increasingly discoverable and accessible through GBIF? Multimedia Resources based Occurrence data:**

- *Historical data* (796601295, ES)
- **If including landscapes yes** (810034473, EN)
- **I'll go to wikipedia for that.** (796392897, EN)
- **Images** (804150587, EN)
- **maybe** (810548447, EN)
- **Nematoda** (804353663, EN)
- *no* (794551257, ES)
- *normal* (804917555, CN)
- **Not so important** (793207067, EN)
- **not sure** (793791487, EN)
- *Pictures* (807122567, ES)
- **Pictures are great, but only are as good as the photographer and picture** (810238490, EN)
- **pictures!** (789950710, EN)
- **sounds** (805771465, EN)
- **sounds potentially useful** (804595709, EN)



- *species pictures* (799090046, CN)
- *such a way of presentation is easier to understand* (797394842, CN)
- *What is available for a country* (802534229, ES)
- *yes* (789289044, EN)
- *yes* (789488116, ES)
- *yes* (790077577, ES)
- *yes* (790300687, EN)
- *yes* (790473914, ES)
- *yes* (797175250, EN)
- *yes* (797396385, ES)
- *Yes* (798217342, EN)
- *yes* (799292774, EN)
- *yes* (800458689, CN)
- *yes* (800595120, CN)
- *yes* (803296708, CN)
- *yes* (804121745, EN)
- *yes* (804182347, EN)
- *yes* (804239602, ES)
- *yes* (804273853, EN)
- *yes* (804325205, ES)
- *yes* (804372510, ES)
- *yes* (807432048, EN)
- *yes* (807543428, RU)
- *yes* (809180532, ES)
- *Yes* (809896381, EN)
- *yes* (813415817, CN)
- *YES!* (795908935, EN)
- *yes, concerning the Réunion Island and the Indian Ocean region and the Mascarene subregion* (805722057, FR)

**23 - What type of data would you like to see becoming increasingly discoverable and accessible through GBIF? Other types of Observations/Occurrences data (e.g. agro-forestry, fish landing, migration etc.):**

- *all these* (794551257, ES)
- *All types of territory-related data: habitats, ecology, etc.* (807602390, ES)
- *border interception data* (789289044, EN)
- *co-occurrences* (810548447, EN)
- *Ecology and environmental description (habitat) data* (807586134, FR)
- *Fish condition factor, sex ratio, gonadal stage* (794025942, ES)
- *fish landing* (798215298, CN)
- *fish landings, fish effort,* (789918245, EN)
- *Fisheries, land use, migration (especially marine organisms)* (791010796, ES)
- *migration,* (794212955, EN)
- *needed* (803491645, CN)

- *normal* (804917555, CN)
- *observations and land use* (793914530, ES)
- observations on specific plant parts particularly fruit in horticulture environments (790534038, EN)
- occurrences of marine invert larvae in water column; recording of gravid adults vs nonreproductive (788459249, EN)
- *old records* (804198863, ES)
- *ornamental uses* (793087734, ES)
- *phenology, population density* (803275497, CN)
- Species Occurrence Records & Phenological changes in a particular ecoregion, province due to possible climate change (809896381, EN)
- sure (804121745, EN)
- Useful, but not a priority for us (810238490, EN)
- *What is available for a country* (802534229, ES)
- Yes (788192263, EN)
- *yes* (788247905, ES)
- Yes (788533978, EN)
- Yes (789392808, EN)
- *yes* (789779878, EN)
- *yes* (789950246, EN)
- *yes* (790300687, EN)
- *yes* (790473914, ES)
- *yes* (794786851, ES)
- *yes* (796160448, EN)
- *yes* (798601169, EN)
- *yes* (799292774, EN)
- *yes* (800458689, CN)
- *yes* (800595120, CN)
- *yes* (803358761, RU)
- *yes* (804192012, FR)
- *yes* (804239602, ES)
- *yes* (804273853, EN)
- *yes* (804961333, ES)
- *yes* (805694226, CN)
- *yes* (805947884, ES)
- *yes* (807601453, ES)
- YES (810561764, CN)
- *yes* (813424731, CN)
- *yes* (789102013, EN)
- *yes - all of that* (796392897, EN)
- YES! (788745446, EN)

**23 - What type of data would you like to see becoming increasingly discoverable and accessible through GBIF? Names and occurrences extracted from Publications:**

- *accurate literature information* (798178007, CN)
- *classification literature of vascular plants* (811763921, CN)
- *complete literature information* (799090046, CN)
- *Correctly, observing nomenclatural codes* (804198863, ES)
- Could be useful (804376501, EN)
- Data on specimens that voucher DNA sequence data (810057771, EN)
- every possible (788714731, EN)
- *Everything available should be compiled, this is an extremely easy task* (797564964, ES)
- for plants (804829371, EN)
- good, but needs "reliability" estimate (788173303, EN)
- I think that's the domain of BHL and the literature content providers (796392897, EN)
- important (793791487, EN)
- link to publications with data (789950710, EN)
- *Listings by species* (807122567, ES)
- *Literature information* (804413864, ES)
- *Literature records* (807586134, FR)
- *literature sources, language used* (803275497, CN)
- Love publications, especially with name changes, as we need to know if these are molecular or taxonomic (810238490, EN)
- market observations, trade routes, confiscation, and other trade data (Bushmeat, Asian wildlife trade, etc.) (804382493, EN)
- maybe (796160448, EN)
- *needed* (803491645, CN)
- Nematoda (804353663, EN)
- No -- dangerous as there are so many misidentifications in the groups I study (788459249, EN)
- No - please stand out from the standard report - I have already made many corrections to stuff that we pulled from publications. USING them only perpetuates errors (788092186, EN)
- *normal* (804917555, CN)
- Plants (801835961, EN)
- Preferable, but data authenticity needs to be ensured (809896381, EN)
- *Regarding Myxomycetes* (807636396, ES)
- Synonyms and source of names (804392582, EN)
- *That would be very desirable* (802031346, ES)
- *They are unreliable* (808821546, ES)
- this would be very useful if it is complete and accurate. (804500588, EN)
- this would make research much easier and can save lots of time if done carefully (796643378, EN)
- *type locality and collecting sites* (800590953, CN)
- *very important* (796647418, ES)
- Very much desired (788046697, EN)
- very much so! (804273853, EN)
- very useful (804121745, EN)
- *What is available for a country* (802534229, ES)
- would be useful (788738209, EN)
- *yes* (788247905, ES)

- **Yes** (788533978, EN)
- **YES** (788745446, EN)
- **yes** (788762474, FR)
- **Yes** (788900448, EN)
- **yes** (789289044, EN)
- **Yes** (789392808, EN)
- **yes** (789429095, EN)
- **yes** (789488116, ES)
- **yes** (789779878, EN)
- **yes** (790077577, ES)
- **yes** (790300687, EN)
- **yes** (790473914, ES)
- **yes** (790612784, EN)
- **yes** (791200661, ES)
- **yes** (791230462, EN)
- **yes** (794551257, ES)
- **Yes** (796220458, EN)
- **yes** (796603939, ES)
- **yes** (796820448, ES)
- **yes** (797175250, EN)
- **yes** (797396385, ES)
- **yes** (797563184, FR)
- **yes** (797909081, EN)
- **yes** (798229727, ES)
- **yes** (798601169, EN)
- **yes** (799292774, EN)
- **yes** (800394959, ES)
- **yes** (800458689, CN)
- **yes** (800584469, ES)
- **yes** (800595120, CN)
- **yes** (803296708, CN)
- **yes** (804192012, FR)
- **yes** (804239602, ES)
- **yes** (804325205, ES)
- **yes** (804372510, ES)
- **Yes** (804743560, EN)
- **yes** (804913571, EN)
- **yes** (804929467, ES)
- **yes** (805186352, ES)
- **yes** (805694226, CN)
- **yes** (806267880, ES)
- **yes** (806724397, ES)
- **yes** (807432048, EN)

- *yes* (809180532, ES)
- *yes* (809335155, ES)
- *Yes* (810034473, EN)
- *yes* (810548447, EN)
- *YES* (810561764, CN)
- *yes* (813424731, CN)
- *yes* (796216693, EN)
- *yes but from valid publications* (794212955, EN)
- *Yes but need to be flagged as such as I have often found wrong identifications* (798217342, EN)
- *yes with source reference* (808459923, EN)
- *YES!* (795908935, EN)
- *Yes, although I think these data are currently unavailable* (807624753, ES)
- *yes, concerning the Réunion Island and the Indian Ocean region and the Mascarene subregion* (805722057, FR)
- *Yes, see my paper (Meier, R. & Dikow, T. 2004. The significance of specimen databases from taxonomic revisions for estimating and mapping the global species diversity of invertebrates and repatriating reliable and complete specimen data. Conservation Biology 18(2): 478–488) on specimen data from taxonomic revisions.* (788093150, EN)
- *Yes. For instance, latest published plant records* (796830098, ES)

**23 - What type of data would you like to see becoming increasingly discoverable and accessible through GBIF? Sequences based associated occurrence data:**

- *Absolutely* (793207067, EN)
- *As long as the repositories of provenance for each specimen's data are recorded* (788526261, ES)
- *be nice to have gene sequencing data* (803230075, CN)
- *CBoL or GenBank* (788687099, EN)
- *could be needed in the future* (800590953, CN)
- *Data is good, and on the cutting edge, but it's not everything* (810238490, EN)
- *gene sequence* (803275497, CN)
- *I think this would be very interesting for people working on taxonomy of species modelling* (796830098, ES)
- *I think that's the domain of Genbank. Although something that promotes a federated model with annotation tracking for sequence data would be useful - to break the genbank 'single global repository' model that does not work.* (796392897, EN)
- *integration of molecular data with phenotypic data will be a challenge, good luck* (793276439, EN)
- *link to sequences, if available* (789950710, EN)
- *links directly to Genbank* (799090046, CN)
- *NO* (788745446, EN)
- *no* (790473914, ES)
- *normal* (804917555, CN)
- *perhaps* (797175250, EN)
- *Phenology* (809190344, ES)
- *this may be better served elsewhere* (796658636, EN)
- *What is available for a country* (802534229, ES)
- *yes* (788247905, ES)

- YES (788459249, EN)
- yes (788497924, ES)
- yes (788762474, FR)
- yes (789289044, EN)
- Yes (789392808, EN)
- yes (789488116, ES)
- yes (789950246, EN)
- yes (790300687, EN)
- yes (790517746, EN)
- yes (790612784, EN)
- yes (791200661, ES)
- yes (794786851, ES)
- yes (796216693, EN)
- yes (797396385, ES)
- yes (798601169, EN)
- yes (800458689, CN)
- yes (800584469, ES)
- yes (803296708, CN)
- yes (804239602, ES)
- yes (804273853, EN)
- yes (804821214, EN)
- yes (804961333, ES)
- yes (805186352, ES)
- yes (807601453, ES)
- Yes (808459923, EN)
- Yes (809896381, EN)
- YES (810561764, CN)
- Yes and with dates (810034473, EN)
- yes! (788714731, EN)
- *Yes, if possible with links to the database holding the sequences and connected data* (797563184, FR)
- you mean like DNA barcodes - now that's a fine idea and I forgot to mention BOLD as a database from which I extract useful data (810548447, EN)

**23 - What type of data would you like to see becoming increasingly discoverable and accessible through GBIF? Any other (please specify):**

- (797388642, EN)
- 1. GBIF helped us to register our type collection of Arachnida (> 10000 series). Thanks for that!  
2. I was positively surprised when data stored in SeSam and transferred to GBIF were accessible via Google search!  
3. Main point for the future would be images of types, as transport regulations after 9/11 hinder the postal sending of such specimens in good condition (not in glycerin, ethanol in lower concentration or even dried!). As normal staff at collections is not sufficient for this, I am begging for another round of money from GBIF to apply for!  
(789954185, EN)
- *all of the above* (803222165, CN)

- *All of the above can be improved. It is very important to indicate better the provenance of each datum. An important data overlooked at GBIF are plants belonging to ornamental flora, or from botanical gardens. This type of origin is not indicated in the records, and this can lead to confusion and incoherence.* (808694797, ES)
- All of this information would be useful. (792934475, EN)
- *At the moment, these data are available through other sources* (800740194, FR)
- Change the projection of the coordinates as you go to north and south poles (788900448, EN)
- character information and interactive ID (789957944, EN)
- *Description of protocols with the set of measurements taken* (799720113, FR)
- ecological primary data which needs to be linked to taxonomic information (789950246, EN)
- general distribution maps (805771465, EN)
- *Herbarium specimen images* (789456090, ES)
- I am not familiar with GBIF mobilised data, yet (807306375, EN)
- I do not know whether you have datasets on freshwater fishes (804946772, EN)
- images of types! (789954185, EN)
- *Integrated data allowing a direct regional or global vision by taxon group* (791081861, ES)
- *Literature data. Ability to download papers, something not possible for amateurs* (809504663, ES)
- *Maps with global registers of species in order to visualize their ranges* (793076383, ES)
- migration, invasive species (811046108, EN)
- more paleontological and geological data (788132571, EN)
- Perhaps measures of how species responses are changing over time (e.g. to climatic shifts) (803995773, EN)
- *Pivot tables with biotopes at the global level* (800587696, FR)
- *Population locations, even through a password and ID system* (797469049, ES)
- Potential distribution of species (models), especially for marine and coastal species, habitat and vegetation types (789918245, EN)
- properties of the organism (797175250, EN)
- Quantitative data, e.g., vegetation plots (796220458, EN)
- *Richness, diversity, abundance* (806756252, ES)
- soil types (810057771, EN)
- Species Management (803718291, EN)
- Specimen based occurrence data extracted from publications???? (789623369, EN)
- *Those related to description, identity, and geographical location* (806267880, ES)
- type specimen images and other data on them, e.g. original protologues (804479061, EN)
- yes to all of these - as long as the georeferencing actually works (804966964, EN)

**24 - If you have any comments not covered by the survey, feel free to enter them here. Open-Ended Response**

- *A better training at the national level is needed in order to exploit the quality services that GBIF offers* (788247905, ES)
- Accuracy of identifications and georeferences are key. Both are hard to be certain of. The former can be best done through a combination of traditional and barcoding techniques and ONLY with vouchered material in a museum where its identification can be checked whenever required. (810548447, EN)
- *As important as the quantity and quality of data, enhancing the portal's times and capabilities* (796647418, ES)

- As said earlier, I represent the Danish GBIF participant node, but i have answered as the bee researcher which I also am ;-)  
(795908935, EN)
- At present I do not have funding to complete Coral Geographic, but the intention is to make it freely available on a website as soon as possible. This the most comprehensive and larges biogeographic database in the marine realm  
(802988610, EN)
- Best of luck with GBIF.  
(803995773, EN)
- Can you help me answer the question: "What is this organism called?"  
(799331109, EN)
- did not address my issues about sampling methodologies which are of great importance  
(804127770, EN)
- easy communication with data provider is essential  
(804116878, EN)
- *Fish species data under different conservation status. Isolated or fragmented populations and subspecies. Historical distribution maps.*  
(794025942, ES)
- for data to be delivered and captured some training to data providers needs to be given (some food for thoughts). Well done!  
(791311969, EN)
- For taxonomic work, information about morphology of primary types is essential as far as original descriptions of taxa too often appear uninformative and digiphotos available are not informative enough. Study of types on loan is optional for this work, but some institutional collections can not send out material - on understandable reasons. Here is a pitfall for taxonomists.  
(804913571, EN)
- GBIF still suffers from a significant bias in content, management and policy due to its origins in servicing the parochial needs of the northern hemisphere museum taxonomist community. It is still not servicing the real needs of the conservation, biosecurity and biotechnology sectors.  
(796392897, EN)
- *GBIF's international data portal lacks in visuals related to species georeferencing maps. They are poor and lack tools and visualization options. Information for each record could be wider and clearer if other interest fields could be included in the online application. Another important issue is that according to the type of biological collection we're dealing with, some underrepresented fields could be added or better represented. For example, if I have a collection of pollen slides, I'm not interested in georeferencing and collector's data, but in the conservation system, species, if SEM pictures are available, etc. In GBIF there are many biological collections that actually don't fit because GBIF is not adapted to them, or doesn't care about them.*  
(808694797, ES)
- *Given the characteristics of the required information on species and populations, this is often related to secondary information. Therefore, and in order to better evaluate this information, we should be able to relate it better to species' requirements for working in Protected Areas.*  
(791010796, ES)
- *How do I get hold of this survey's results, as well as your conclusions and actions derived from them?*  
(791081861, ES)
- *How does GBIF collaborate with our platform?*  
(807400210, ES)
- I am lost in the swirl of acronyms, terminology, jargon, schema, standards, etc. Please make widely available a "primer" of some sort (or links to where one already exists) that helps those of us who are not particularly computer-savvy to become better informed of at least the basic information necessary to navigate online information and records. For example, when doing a GBIF search of occurrences for the plant family I'm working on, it comes back as "No occurrences records found". I don't know if the database is incomplete, containing no records for this family, or if I'm doing something incorrectly in my attempt to search for records.  
(805077604, EN)
- *I didn't know about GBIF until receiving the survey through the College of Biologists*  
(808611345, ES)
- *I didn't understand some questions, so I left some blanks. The materials I've been using are the technical records about flora and fauna species.*  
(789477115, ES)
- I do not often use GBIF myself but rely on direct contacting institutions directly through the web. If I can figure out how to give my records to GBIF, then perhaps I would use GBIF for my work more often.  
(792934475, EN)



- *I don't understand the latest questions from the point of view of global ranges, as, in general, marine fish.* (804928277, ES)
- I have filled this survey out on behalf of myself and not on behalf of my institution as a whole. As far as I'm aware, there was no co-ordinated effort to respond to this survey at the institutional level at our museum (810168013, EN)
- I have not used gbif much and this type of work is a small part of my job. (788512581, EN)
- I have not used GBIF, but this survey prompted me to visit the site. At first glance it appears to be especially useful for my needs. (788118223, EN)
- I have wasted my time trying to answer your questions (796595322, EN)
- *I personally work on intraspecific diversity subjects (genes), that for me are actually primary biodiversity data. I believe it would be necessary to determine what studies of this type exist among different taxa.* (810102198, ES)
- *I think that GBIF is doing a great job, invaluable for basic research* (806724397, ES)
- *I think that if the information could be classified at the local level, this could lead to a good environmental planning by organisations and governments* (794211825, ES)
- I think the database would be more useful if the speed of finding information, there are too many clicks required to get to the information you are looking for.. (790534038, EN)
- *I wish GBIF portal usage seminars are organised at the national level* (788686273, FR)
- I would be very happy to provide the specimen data gathered during my taxonomic revisionary studies to GBIF as many of the specimens come from smaller museums who have not the ability to provide access to their holdings through GBIF. Furthermore, the insect specimen data are now properly identified and up to the latest taxonomic standard. I have tried to use the new IPT software, but unfortunately cannot figure out how to upload my specimen data. (788093150, EN)
- I would like to learn more about GBIF. (810715089, EN)
- *I'd like to have access to species listings at the county level.* (793409884, ES)
- *In the name of Oceanographers Without Borders, thanks for supporting Open Access to scientific publications. Your work is excellent, you should not discontinue, you have our support.* (797462382, ES)
- information already stored in natural history collections are not the main problem of primary biodiversity data but university projects never being published or amateur data never being made public (789950246, EN)
- Information on Indian type materials of plants in European herbaria in image form will help research workers in India (804829371, EN)
- *It is a very important and fundamental initiative, but perhaps collections should be better committed to the quality of information they enter into your databases.* (793316601, ES)
- It is really a pity that the distribution maps produced cannot be exported in a nice format useful for publications! (804101235, EN)
- It would be helpful to see user statistics, i.e. what kind of information is mostly browsed and what kind of data is frequently requested but still lacking. (798198867, EN)
- It would be useful to have data from published checklists for particular sites available and searchable by species online. (810057771, EN)
- It's probably not worth using my survey. I'm still busy setting up CASABIO and developing the software. I've been busy with PhD, and when that's done I shall concentrate on it. The NGO, CASABIO, will be obtaining GPS-linked records of plant species occurrence linked with images of those species. We shall be starting in the Cape. So many of the answers are based on future requirements. Thanks David Gwynne-Evans (804604905, EN)
- Many of the problems in the data are due to gaps in the science! We need more taxonomic work, especially that which includes life history and associated flora/fauna studies. (788459249, EN)
- My feedback may not be very accurate, as I have not used GBIF until recently. I do not have enough experience in the use of this database to give reliable answers, and I did not understand all (of) the questions. (799890359, EN)

- My primary data are the specimens (flies) themselves. All checklists, taxonomic accounts, etc. are secondary, not primary data. (788162326, EN)
- no comments at this stage (804946772, EN)
- On the main webpage, change the Global map projection to better see the northern and the southern extremes... move off Mercator. (788900448, EN)
- One of the reasons that I started my web site was because I couldn't find that information anywhere else! (804273853, EN)
- Paleontologic data could easily be added and it provides the only history of prior extinction events, climate change etc. (788950260, EN)
- Please feel free to contact me if you have any questions. (811046108, EN)
- Please note that the GBIF portal is very difficult to use. All attempts I have made to use it produce the species I am looking for but then produce nonsensical localities (804966964, EN)
- *please pay attention to survey design; not easy to answer the questions* (811707505, CN)
- *Please show or send a general summary of this exercise* (794551257, ES)
- Portal is slow, at least 10x slower than google. (788368913, EN)
- *questionnaire is too long* (811710761, CN)
- radio buttons of the first question did not work. some questions were difficult to understand. it is good that this questionnaire was programmed in a way that also old browsers can read it perfectly. (789429095, EN)
- See you in Copenhagen in June. (803743468, EN)
- Since GBIF is now using the USDA Plants database records for plant distributions, there is no way to differentiate between vouchered records and other kinds of records. This greatly limits the usefulness of GBIF data for many serious, scientific purposes, given that science must be repeatable and verifiable. (791122013, EN)
- *some questions are ambiguous; not easy to answer if you are not a regular user* (801130797, CN)
- Thank you for making the possibility of the Panbiogeography Atlas a reality (796324699, EN)
- *Thank you for your interest in improving the quality and availability of the databases of the technical collections that hold the biodiversity information at the global level.* (802031346, ES)
- thank you. and i am willing to be a member of this organization. this is very applicable in my profession. (800464906, EN)
- *Thanks for sending me this survey* (804951687, FR)
- *Thanks for your time. I'd like to know what electronic information exchange mechanisms are there, if viable.* (802534229, ES)
- Thanks GBIF makes my work easier!!! (788533978, EN)
- thanks! Sorry this has to be quick, but the more cephalopods species and fishery information the better! (806578418, EN)
- The data I use is primarily species location data for conservation management purposes. The reliability and accuracy of the data can be variable, but must be clearly indicated. I presently use multiple data sources, of which GBIF is the least often used and the least important. (788173303, EN)
- *The GBIF data model (ABCD) does not permit, as far as I know, to describe the observation protocols used (and, therefore, all obtained information). This could be a hint about the evolution of the GBIF model.* (799720113, FR)
- The GBIF database could be improved if import of higher quality data could be funded (796658636, EN)
- *The quality of the French of some questions is poor.* (802155962, FR)
- This response is being made on my colleagues' & institutes'(NBRI) behalf. The examples cited as documentary publications include primary biodiversity data generated mostly through our own field surveys and observations. GBIF datasets are often used to authenticate species distributional records of taxa of interest to our studies. (809896381, EN)

- *To better divulge GBIF databases* (790246166, ES)
- *To create an image bank about organisms. Thanks for asking* (790077577, ES)
- *too complexed* (813358480, CN)
- *very useful* (804862982, EN)
- *We don't use GBIF data* (800740194, FR)
- *We have so many references relating to our collection, it would take me a long time to get it all together. Thanks, linda* (810238490, EN)
- *We love the idea of GBIF. It will continue to be an important part of taxonomy and biogeography.* (804353663, EN)
- *We need financing for producing data about species diversity, especially at the South of the Neotropical area.* (804198863, ES)
- *We'd like to have the results of your survey in order to know the needs at the global scale. Agreements and objectives for exchange data should be more clear.* (807586134, FR)