





OBJECTIVE

Introduce the **Mountain Portal**, GMBA's⁽¹⁾ open access web portal for mountain biodiversity data mobilization, query, visualization, & analysis

(1) Global Mountain Biodiversity Assessment www.gmba.unibe.ch





Mountain biodiversity

- Mountains support exceptional diversity
 - Support 1/3 of terrestrial species diversity
 - High numbers of endemic species
 - ➤ Mountains host ½ of all 34 global biodiversity hotspot
 - Key to conservation in a changing world
 - Ecosystem to be conserved according to Target no. 1 of SDG 15

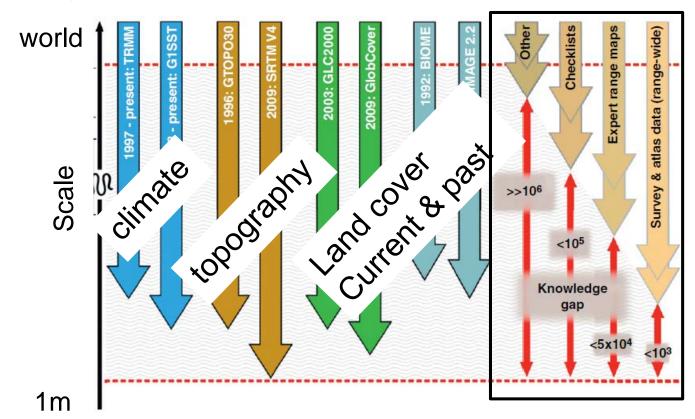






Global biodiversity data

Available global biodiversity data show limitations (bias, quality, quantity, precision, etc.)



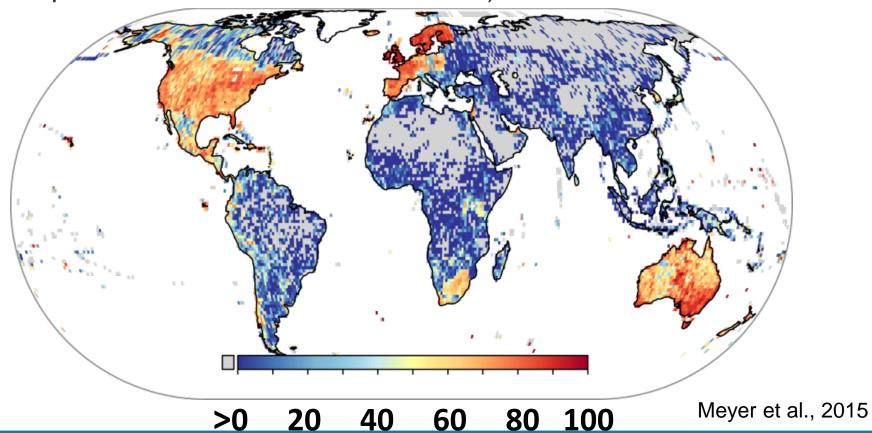
Jetz et al., 2012





Global biodiversity data

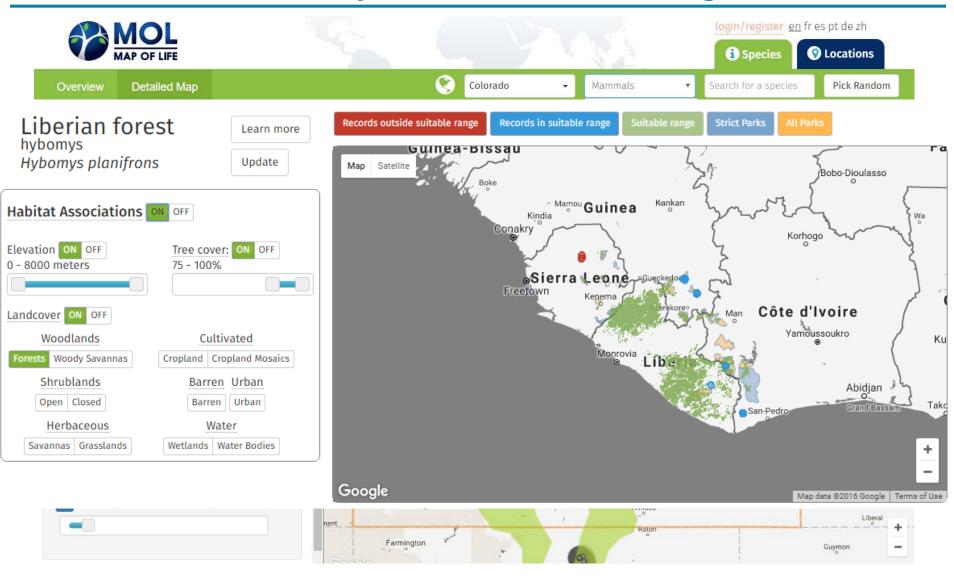
 Species distribution globally sparse and biased (inventory completeness – terrestrial vertebrates)







Global biodiversity database: mol.org







Why do we need a mountain portal?

- Existing demand for a tool to explore, access, provide, and work with mountain biodiversity data
 - Users: scientists, stakeholders, policy makers
 - Current conservation and sustainable development priorities: development of SDG indicators
- GMBA Mountain Portal developed to address these needs
- Map of Life is an obvious platform to host GMBA mountain layers





Portal Overview

- Web interface based on Map of Life
- Open access
- Target audience: scientists, practitioners, policy makers, public (specific tools for specific users)
- Platform for data upload and sharing





Portal Overview

- Layers
 - Ruggedness filter (Koerner et al., 2011)
 - Thermal belt (Koerner et al., 2011)
 - Inventory of mountains and mountain regions (Koerner et al., in review)
- Current implementations
 - Visualization of mountains and mountain inventory
 - Visualization of thermal belts within mountains
 - Browsing of species inventories by location (mountain polygon)
 - Visualization of species ranges





Mountain Portal

www.mountainbiodiversity.org





Outlook

- Streamlining platform
- Interactive improvement of available inventory of mountain regions (in press, Alpine Botany)
- Gather additional information for mountain regions and/or globally (E.g. socio-demographic data, climatic data, etc.)
- Ongoing effort to collect more biodiversity information
 - If you have data please share them with our community!





