



GMBA NEWS - SEPTEMBER 2018

Dear colleagues,

After a very busy Summer we are reaching out with a list of news, opportunities, and recent publications.

REMINDERS

- New & updates - Remember that other members of the GMBA network are eager to read about your research, projects, and publications. Please share your updates with us such that we can highlight them on our website!
- Data – Did you collect mountain biodiversity data this Summer? Keep in mind that all the rich data you collect in the field can be shared for visualization on our [Mountain Portal](#). Our online platform is precisely meant for data visualization and query. With our new portal release (read below) it has become very easy to upload your occurrence data and inventories! Remember, this is not about giving your data away but informing the science and policy communities about what biodiversity exists where.

GMBA NEWS

GMBA mountain inventory

We have released the GMBA mountain inventory V1.2! This new version includes around 50 new mountain ranges, mostly in Asia and South America. It is available for unrestricted download and we welcome your feedback. If you use our inventory for a project or in a publication, please let us know such that we can advertise it on our website. [Link to the inventory...](#)

GMBA Mountain Portal

We have released a new version of the GMBA [Mountain Portal](#)! The new features include:

- [Online upload](#) functionalities for your occurrence data and inventories
- A [search tool](#) to easily find what datasets exist for a specific mountain range
- A tag identifying the datasets pertaining to a given species that specifically include data geo-localized in a chosen mountain range
- Portuguese as the 6th language

Our Map of Life colleagues are still tweaking the upload option and other features a bit to make them friendlier to use but the functionalities are there. We welcome your feedback on these new features.

New GMBA project

GMBA has been awarded a new project entitled “*Mountain Biodiversity and the Sustainable Development Goals: Knowledge for Synergistic Action*”. This four-year project is supported by the Swiss National Science Foundation through its Research for Development funding tool, and will contribute to a better understanding of the specific challenges associated with the sustainable management and conservation of mountain biodiversity (SDG 15.4) in the context of competing development goals, limited resources, and complex governance structures. The work will be performed at global scale and across national and sub-national scales in Bolivia, Nepal, and Tanzania. We are looking forward to closely collaborating with many of you on this project. The project website will be up soon!

GMBA opportunity: 70% post-doc position on mountain biodiversity and sustainable development

For the above project, we are hiring a post-doc to work together with our partners in Bolivia, Nepal, and Tanzania at the interface between natural and social sciences. Applications will be reviewed until the position is filled. [Read more...](#)

GMBA PEGASuS project

Since our last newsletter we collected more than 100 answers to our survey on biodiversity and human wellbeing in mountains. We thank all of you who have filled out the survey, partially or entirely. We have now started with the analyses of the data and will update our [project website](#) with results as soon as they become available.

NETWORK NEWS

Mountain Research and Development: call for papers – The role of culture in transformation towards sustainable development in mountains

Mountain communities are undergoing rapid sociocultural change, caused by drivers such as outmigration, urbanization, and increasing insertion into the market economy. Mountain cultural heritage is under threat. But communities are responding in creative ways. How can we ensure that culture is a source of creativity and empowerment, that it constitutes the roots upon which a global ethics can grow, and that it helps bridge the divides between the individual and the communitarian? Mountain Research and Development is looking for papers that address these questions and others. Notices of intent are due by 30 September 2018, full papers by 1 February 2019. [Read more...](#)

Opportunities: Post-doc position on Eastern Mountain Region Diversity, Endemism, and Biogeography

The Afromontane Research Unit at the University of the Free State, South Africa is advertising a Post-Doctoral Fellowship focusing on plant diversity & endemism in African mountains and related concepts around ecological and historical biogeography. In addition to the academic research commitments, the Fellow will also have the opportunity to be exposed to the wide range of mountain-related activities being driven by the ARU.

Application deadline: 30.09.2018. [Read more...](#)

Opportunities: Research Chair in coupled human-natural systems in montane environments

The South African Environmental Observation Network (SAEON) and the Afromontane Research Unit (ARU; based on the Qwaqwa Campus of the University of the Free State) are calling for comprehensive expressions of interest from suitable candidates for a National Research Foundation (NRF) Research Chair in Coupled Human-Natural Systems in Montane Environments.

Application deadline: 30.09.2018. [Read more...](#)

Opportunities: Postdoc position at the Department of Botany and Biodiversity Research, University of Vienna

The Department of Botany and Biodiversity Research of the University of Vienna is looking to fill a 4.5 year post-doc position with a candidate interested in various aspects of biogeography, macroecology, global change biology, ecological modelling, invasion biology, landscape ecology or related fields.

Application deadline: 30.09.2018. [Read more...](#)

Opportunities: PhD position in macroecology / palaeoecology, University of Bergen

There is a vacancy for a PhD position at the University of Bergen's Department of Biological Sciences within the Ecological and Environmental Change Research Group as part of the European Research Council funded project Humans on Planet Earth – Long-term impacts on biosphere dynamics (HOPE).

Application deadline: 28.09.2018. [Read more...](#)

Call for Support - Value chain skills for 250 Tanzanian women

MVIWATA KILIMANJARO, a Tanzanian farmers' organization, is calling for donations to support a project aiming at supporting 250 women banana growers in the Kilimanjaro region in acquiring good agricultural practices, entrepreneurship and business skills. [Read more and contribute...](#)

IPBES: Call for requests, input and suggestions for the next work programme

IPBES is currently in the process of developing its next work programme, following the process set out in decision IPBES-6/2. IPBES members, observers, multilateral environmental agreements, United Nations bodies and relevant stakeholders as well as experts on, and holders of, indigenous and local knowledge are invited to provide requests, inputs and suggestions, respectively, on short term priorities and longer term strategic needs for the future work programme of IPBES. **Deadline: 30.09. 2018.** [Read more...](#)

New funding call by the European Space Agency and Future Earth

The funds provided by the European Space Agency and Future Earth are available to the Future Earth community to test out ideas that make use of the European Space Agency's Earth observation data in the context of a workshop. Ideally, these ideas would be seen as a springboard to larger projects that could be developed with ESA. Proposals can come from across a broad range of research questions and applications. The key topics for this year's call are (i) engaging new research communities in using satellite data, (ii) novel uses of ESA Earth Observation data, (iii) exploitation of Essential Climate Variable datasets from ESA's Climate Change Initiative. Further details are available on the [Future Earth website](#). There are various ways to apply but one of them is through the Future Earth Global Research Projects like us and we would be happy to work with you on an application. **Application deadline: 02.11.2018**

FOR THE AGENDA

Mountain 2018

MOUNTAINS 2018 will take place on 10 to 14 December 2018, in Nova Friburgo, Rio de Janeiro State, Brazil. It will comprise two events: the III Workshop on Sustainable Development in Mountain Environments, and the II International Conference on Research for Sustainable Development in Mountain Regions. Guided field trips to the region's mountains will take place on 12 December 2018. The Workshop aims to present and discuss sustainable management initiatives in mountain environments, involving all actors of these areas. The conference will discuss issues related to linking scientific knowledge and decision-making, including all perspectives to expand and disseminate knowledge about sustainable and integrated management in mountain environments. [Read more...](#)

Fourth World Mountain Forum

The University of Central Asia's has announced the fourth World Mountain Forum (October 23–26 2018, Bishkek, Kyrgyzstan). Under the theme "Mountains in a changing world: strengthening partnership and pathways towards a thriving mountain future", the World Mountain Forum 2018 will be hosted by the Government of Kyrgyzstan with support from the Government of Switzerland, the University of Central Asia and the Aga Khan Foundation. This fourth forum will bring together the global mountain community to enable strategic and timely dialogue on some of the most pertinent challenges facing sustainable mountain development. Participants will strive to identify and develop solutions for mountain areas globally. The fourth World Mountain Forum will have a special emphasis on the mountains of Kyrgyzstan and Central Asia. [Read more....](#)

African Ecosystem Service Partnership Conference 2019

The Ecosystem Services Partnership is announcing its 2019 Africa regional conference, which will be held in Kpalimé, Togo, February 4-8. This conference will focus on the '*Management of Ecosystem Services for Nature Conservation and Human Wellbeing in Africa*' and is organized to draw attention to the key role ecosystems are playing in the development of the economy, human wellbeing and culture in (Sub-Saharan) Africa. The call for abstracts will be opened soon. [Read more and stay tuned...](#)

NETWORK PUBLICATIONS

- Borges et al. (2018). Dissecting bird diversity in the Pantepui area of endemism, northern South America. *Journal of Ornithology* (DOI: [10.1007/s10336-018-1576-6](https://doi.org/10.1007/s10336-018-1576-6))
- Bryson et al. (2018). Phylogenomic insights into the diversification of salamanders in the *Isthmura bellii* group across the Mexican highlands. *Molecular Phylogenetics and Evolution* 125: 78-84 (DOI: [10.1016/j.ympev.2018.03.024](https://doi.org/10.1016/j.ympev.2018.03.024))
- Bueno de Mesquita et al. (2018). Patterns of root colonization by arbuscular mycorrhizal fungi and dark septate endophytes across a mostly-unvegetated, high-elevation landscape. *Fungal Ecology* (DOI: [10.1016/j.funeco.2018.07.009](https://doi.org/10.1016/j.funeco.2018.07.009))
- Cardinaux et al. (2018). Do soil biota influence the outcome of novel interactions between plant competitors? *Journal of Ecology* 106: 1853-1863. (DOI: [10.1111/1365-2745.13029](https://doi.org/10.1111/1365-2745.13029))
- Collins et al. (2018). Shrub range expansion alters diversity and distribution of soil fungal communities across an alpine elevation gradient. *Molecular Ecology* (DOI: [10.1111/mec.14694](https://doi.org/10.1111/mec.14694))
- Davis and Gedalof (2018). Limited prospects for future alpine treeline advance in the Canadian Rocky Mountains. *Global Change Biology* (DOI: [10.1111/gcb.14338](https://doi.org/10.1111/gcb.14338))
- Elsen et al. (2018). Global patterns of protection of elevational gradients in mountain ranges. *Proceedings of the National Academy of Sciences USA*. (DOI: [10.1073/pnas.1720141115](https://doi.org/10.1073/pnas.1720141115))
- Hao et al. (2018). *Eutrema nanum* (Brassicaceae), a new species from Chola Shan, Southwest China. *PhytoKeys* 109: 17–25 (DOI: [10.3897/phytokeys.109.27047](https://doi.org/10.3897/phytokeys.109.27047))
- Jähnig et al. (2018). The contribution of broadscale and finescale habitat structure to the distribution and diversity of birds in an Alpine forest-shrub ecotone. *Journal of Ornithology* 159(3): 747-759 (DOI: [10.1007/s10336-018-1549-9](https://doi.org/10.1007/s10336-018-1549-9))
- Johansson et al. (2018). Disturbance from traditional fire management in subalpine heathlands increases Afro-alpine plant resilience to climate change. *Global Change Biology* (DOI: [10.1111/gcb.14121](https://doi.org/10.1111/gcb.14121))
- Laiolo et al. (2018). Ecological and evolutionary drivers of the elevational gradient of diversity. *Ecology Letters* 21(7): 1022-1032 (DOI: [10.1111/ele.12967](https://doi.org/10.1111/ele.12967))
- Leach et al. (2018). Modelling the responses of Australian subtropical rainforest birds to changes in environmental conditions along elevational gradients. *Austral Ecology* (DOI: [10.1111/aec.12586?af=R](https://doi.org/10.1111/aec.12586?af=R))
- Liang et al. (2018). Shifts in plant distributions in response to climate warming in a biodiversity hotspot, the Hengduan Mountains. *Journal of Biogeography* 45: 1334-1344 (DOI: [10.1111/jbi.13229](https://doi.org/10.1111/jbi.13229))
- Mantilla et al. (2018). Distribution of black flies (Diptera: Simuliidae) along an elevational gradient in the Andes Mountains of Colombia during the El Niño Southern Oscillation. *Acta Tropica* 183: 162-172 (DOI: [10.1016/j.actatropica.2018.04.001](https://doi.org/10.1016/j.actatropica.2018.04.001))
- Marcora et al. (2018). Context-dependent effects of fire and browsing on woody alien invasion in mountain ecosystems. *Oecologia* (DOI: [10.1007/s00442-018-4227-y](https://doi.org/10.1007/s00442-018-4227-y))

- Mendes et al. (2018). Hidden in the Arabian Mountains: Multilocus phylogeny reveals cryptic diversity in the endemic Omanosaura lizards. *Journal of Zoological Systematics and Evolutionary Research* (DOI: [10.1111/jzs.12210](https://doi.org/10.1111/jzs.12210))
- Miller et al. (2018). Are introduced plants a threat to native pollinator services in montane–alpine environments? *Alpine Botany* (DOI: [10.1007/s00035-018-0206-5](https://doi.org/10.1007/s00035-018-0206-5))
- McDougall et al. (2018). Running off the road: roadside non-native plants invading mountain vegetation. *Biological Invasions* (DOI: [10.1007/s10530-018-1787-z](https://doi.org/10.1007/s10530-018-1787-z))
- Nevado et al. (2018). Pleistocene glacial cycles drive isolation, gene flow and speciation in the high-elevation Andes. *New Phytologist* 219(2): 779-793 (DOI: [10.1111/nph.15243](https://doi.org/10.1111/nph.15243))
- Noroozi et al. (2018). Hotspots within a global biodiversity hotspot - areas of endemism are associated with high mountain ranges. *Scientific Reports* (DOI: [10.1038/s41598-018-28504-9](https://doi.org/10.1038/s41598-018-28504-9))
- Porazinska et al. (2018). Plant diversity and density predict belowground diversity and function in an early successional alpine ecosystem. *Ecology* (DOI: [10.1002/ecy.2420](https://doi.org/10.1002/ecy.2420))
- Price et al. (2018). Mapping mountain areas: learning from Global, European and Norwegian perspectives. *Journal of Mountain Sciences* (DOI: [10.1007/s11629-018-4916-3](https://doi.org/10.1007/s11629-018-4916-3))
- Quintero-Gallego et al. (2018). Exploring land use/land cover change and drivers in Andean mountains in Colombia: A case in rural Quindío. *Science of The Total Environment* 634(1): 1288-1299. (DOI: [10.1016/j.scitotenv.2018.03.359](https://doi.org/10.1016/j.scitotenv.2018.03.359))
- Read et al. (2018). Aboveground resilience to species loss but belowground resistance to nitrogen addition in a montane plant community. *Journal of Plant Ecology* 11(3): 351-363 (DOI: [10.1093/jpe/rtx015](https://doi.org/10.1093/jpe/rtx015))
- Ren et al. (2018). Species divergence and maintenance of species cohesion of three closely related *Primula* species in the Qinghai–Tibet Plateau. *Journal of Biogeography* (DOI: [10.1111/jbi.13415](https://doi.org/10.1111/jbi.13415))
- Riquelme et al. (2018). Protected areas' effectiveness under climate change: a latitudinal distribution projection of an endangered mountain ungulate along the Andes Range. *PeerJ* (DOI: [10.7717/peerj.5222](https://doi.org/10.7717/peerj.5222))
- Scherrer et al. (2018). Disentangling the processes driving plant assemblages in mountain grasslands across spatial scales and environmental gradients. *Journal of Ecology* (DOI: [10.1111/1365-2745.13037](https://doi.org/10.1111/1365-2745.13037))
- Wilson Fernandez et al. (2018). The deadly route to collapse and the uncertain fate of Brazilian rupestrian grasslands. *Biodiversity and Conservation* 27(10):2587-2603 (DOI: [10.1007/s10531-018-1556-4](https://doi.org/10.1007/s10531-018-1556-4))
- Xu et al. (2018). Environmental correlates underlying elevational richness, abundance, and biomass patterns of multi-feeding guilds in litter invertebrates across the treeline. *Science of The Total Environment* 633(15): 529-538. (DOI: [10.1016/j.scitotenv.2018.03.212](https://doi.org/10.1016/j.scitotenv.2018.03.212))
- Zhang et al. (2018). Population genetic dynamics of Himalayan-Hengduan tree peonies, *Paeonia* subsect. *Delavayanae* *Molecular Phylogenetics and Evolution* 125: 62-77. (DOI: [10.1016/j.ympev.2018.03.003](https://doi.org/10.1016/j.ympev.2018.03.003))