

Submitted Abstract

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First Author First Name Last Name	Mark Alexander (1) Snethlage
Submitting Author First Name Last Name	Mark Alexander Snethlage
Correspondence	mark.snethlage@ips.unibe.ch
Co-Authors >> E-Mails will be not listed	Geschke, Jonas (2); Spehn, Eva M. (3); Ranipeta, Ajay (4); Yoccoz, Nigel G. (5); Körner, Christian (6); Jetz, Walter (7); Fischer, Markus (2); Urbach, Davnah (1)
Organisations >> for readability limited to 5 >> full list can be found online	1: Global Mountain Biodiversity Assessment, University of Bern, Switzerland 2: Institute of Plant Sciences, University of Bern, Switzerland 3: Swiss Academy of Sciences (SCNAT), Bern, Switzerland 4: School for Forestry and the Environment, Yale University, New Haven, United States 5: Department of Arctic and Marine Biology, UiT The Arctic University of Norway, Tromsø, Norway
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Abstract

A standardized delineation of the worlds' mountains has many applications in research, education, and the science-policy interface. Here we provide a new inventory of 8616 mountain ranges developed under the auspices of the Global Mountain Biodiversity Assessment (GMB). Building on an earlier compilation, the presented geospatial database uses a further advanced and generalized mountain definition and a semi-automated method to enable globally standardized, transparent delineations of mountain ranges worldwide. The inventory is presented on EarthEnv at various hierarchical levels, allowing users to select their preferred level of regional aggregation from continents to small subranges according to their needs and the scale of their analyses. The clearly defined, globally consistent and hierarchical nature of the presented mountain inventory offers a standardized resource for referencing and addressing mountains across basic and applied natural, social sciences research and a range of other uses in science communication and education.