

**GBA THESAURUS – MORE THAN A CONTROLLED VOCABULARY FOR GBA ASSOCIATES**

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The open accessible Thesaurus of the Geological Survey of Austria (GBA) was designed as a knowledge representation of the Geological Survey. The regarded geological vocabularies are organized as concepts in six domains, >Geologic Time Scale<, >Geologic Units<, >Geologic Structures<, >Lithology, Minerals<, and >Tectonic Units<. The content is provided bilingual in German and English as used in GBA publications and maps. To increase the content quality, all concepts are formatted as SKOS concept and are bound to a Uniform Resource Identifier (URI), a unique web address. Related to the standards of W3C, RDF, SparQL the content of the GBA Thesaurus is published machine-readable. Each concept of the GBA Thesaurus contains a description followed by a reference list directly linked to the online catalogue of the GBA library. Links to the related pdfs are also available, provided that they are open source. Where possible, the concepts are specified by semantic relationships as broader, narrower, or related concepts within the domain. Further the concepts are available as "Linked Data" and if possible semantically linked to other web resources as INSPIRE, GeoSciML, DBpedia, etc. The Thesaurus is used as a base for further web applications and modules. One of this modules is the DataViewer, an integrated and very powerful tool visualizes already harmonized concepts of geological maps. Further details related to the DataViewer are presented at the Pangeo by Christine Hörfarer et al.

The GBA Thesaurus does not claim to be any standard. Nevertheless, it offers geologists, students and all other interested people an excellent opportunity to find geological terminology and the related definition for further correct use. Additional links to high quality data resources and integrated web applications make the GBA Thesaurus to a powerful tool for geologists requiring controlled vocabulary.