

GeoCro – Mobile App by Croatian Geological Survey

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Abstract

GeoCro is a mobile application developed by the Croatian Geological Survey (HGI-CGS) for the promotion of geology in the Republic of Croatia. The aim was to present geology to the general public in a simple and intuitive way. The application is designed for geological enthusiasts and interested amateurs, nature lovers, mountaineers, and tourists, as well as professional geologists and other scientists. While using location information, the application displays the geological map of Croatia with basic information about the various surface rock formations and structures, and a brief overview of the geological history of Croatia.

The base of the application is the Geological Map of the Republic of Croatia at a scale of 1:300,000 (HGI, 2009) and its associated Interpreter (HGI, 2009), where all geological units shown on the map are described. The base maps offered in the app are provided by the Mapbox platform and the user can choose between default, terrain, satellite, and simplified base map. The second part of the application is a database containing lines and polygons (geological borders and units), and geological points of interest. These are geologically attractive locations (phenomena) which are divided into three categories: fossils, rocks, and geosites. All locations in the database can be displayed on the map and explored in detail. The app is GPS enabled which allows the user to see his own location on the map, and save it on his individual locations list in the app.

GeoCro app was developed through the partnership of HGI-CGS, providing geological information, basic guidelines, and functionalities, and STEMI d.o.o., providing technical development. GeoCro is available for free download on Android and iOS platforms in the Croatian language.

Keywords: GeoCro, mobile app, geology, Croatia