



Tectonic setting of the Tambobamba area (Central Andes, Peru)

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The study area is located inside the province of Cotabambas (Apurímac region, Perú) and it is included in a region extending from Longitude 72° 15' W to Longitude 72° 00' W and from Latitude 13° 57'S to Latitude 13° 50'S, ranging in altitude from 3,200 m a.s.l. to 4,500 m a.s.l. In this area two geological survey missions were carried out in 2015 and in 2017, with the target of improving the existing geological maps, particularly by a tectonics point of view. The preliminary results of these missions are documented in new geological map of the area, where the main geological features result to be a set of NE-facing folds system involving a Cretaceous carbonates succession. While in the NW sector of the study area the fold axes generally follow the regional NW-SE trend, toward the central-Eastern sector they are affected by a pluri-kilometric scale evident deflection to direction from W-E to N-S. The main field evidences indicate that these axes rotation can be related to late deformation stages produced by the emplacement of the Eocene – Early Oligocene igneous bodies that widely crop out in the study area. The poster reports the new map and field data related to this tectonic setting.