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Geostructural control in the rocky coast evolution: combination between UAVs and field survey techniques

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Structural and lithological control has a key role in the shape of the rocky coast and its dynamics. Therefore, deepening the knowledge about these zones is one of the main aims for the future. In this sense, a granitic-gneissic sector was analyzed in the Galician coast (NW Iberian Peninsula) to understand their past and future evolution. For the characterization, we were used remote techniques based on data from UAVs (orthoimages and DEMs), just as hardness testers (Equotip and Schmidt-Hammer). The study was carried out at two scales, one general to analyze the main characteristics and select the interest sectors, and the other in detail applying the fieldwork survey techniques to explain the coastal landforms. This methodology allowed us to verify the correlation between remote and field data and improve our knowledge about the rocky coast dynamics by detecting and quantifying the topographical difference between closest sectors.