



## **Caribenorte project: future combined onshore-offshore survey in the north-eastern Caribbean plate**

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Despite high number of studies carried out in the north-eastern Caribbean plate, there is not still a geodynamic model which can explain and integrate such diversity of involved tectonic settings. In 2003 we thought this fact was a consequence of: most surveys were focused in the north of the island arc, absence of wide-angle refraction/reflection seismic profiling and absence of systematic surveying (gravity, geomagnetics and multibeam bathymetry).

These facts led us to realize the GEOPRICO-DO project, finished in 2006 which has produced interesting results, and has opened us the way for a new and more ambitious project: CARIBENORTE.

The survey planning includes: the systematic acquisition of multibeam bathymetry and potential fields (gravity and geomagnetics) covering an area of 50 000 km<sup>2</sup>, to the south of Dominican Republic and Mona Passage; two deep-refraction seismic profiles north-south trending across the Hispaniola (with 550 km-length each one) and one more across Beata Ridge (based on signal reception on sea (OBSs) and on 150 land seismometers); and multichannel reflection profiles in the Beata Ridge zone. The acoustic signal will be yielded by the R/V Hespérides and by drill-hole explosions onshore.

The CARIBENORTE project is directed by the Universidad Complutense de Madrid. Collaborating institutions: Real Observatorio de la Armada Española and Instituto Español de Oceanografía. Invited institutions: Universidad Autónoma de Santo Domingo-Instituto Sismológico Universitario; Dirección General de Minería; Marina de Guerra de la República Dominicana; U. S. Geological Survey; and Puerto Rico Seismic Network.