

Background morphology of rivers of Ecuador from topography relieved with multibeam and side scan sonnar

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Abstract

The study of the relief of the seabed to recognize and characterize the marine morphology and structural systems that comes to the surface of the ocean floor. The development of current technologies creates images of the relief of the seafloor with high resolution and perfectly suitable for detailed geomorphological studies as required in this case.

The geological characterization begins with a review of literature and earlier studies in the area of interest. Once you know the background, the lifting is done with multibeam and side scan Sonnar. With this information we construct the maps and mosaics that allow us to appreciate the different geological components of the seafloor.

Additionally we analyze the geological structures on the ground to determine if structures are extensions of land that are in the seabed.