

*Metodología para el estudio de sistemas de arrecifes de coral con imágenes de satélite LandSat: Sistema Arrecifal de Cabedelo-Cabo Branco (João Pessoa, Estado de Pernambuco, Brasil)*

**Methodology for the study of Coral Reef Systems with LandSat Satellite images: Cabedelo-Cabo Branco areas coral reef (Joao Pessoa, Estado de Pernambuco, Brasil)**

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Location: *Biogeografía de Medios Litorales: Dinámicas y conservación* (2014), ISBN 978-84-617-1068-3, pages 137-142

Language: Spanish

Coral Reef Systems are ecosystem indicators for marine and coastal conditions in tropical littorals. The use of techniques based on satellite images treatment and its improvement in the last decades has increased the study of these ecosystems as regards of their geomorphological and biosedimentary structures. Some techniques have been normalized to elaborate a bathymetric image from the correlation between exact bathymetric soundings and apparent reflectivity values from LandSat 7 ETM+. A bathymetric image of Cabedelo spit-barrier -Cabo Branco has been obtained to identify and interpret different coral reef systems from the geomorphologic and sedimentary point of view, so giving determinant information for the management of coastal and marine nature resources.

**Key words:** Coral Reef System; LandSat 7 ETM+ satellital images; bathymetry image; geomorphology; biosedimentary.