A 3D unstructured hydrodynamic model is being implemented on La Parguera, Lajas. A region with complex bathymetry, islands, mangroves, and reefs that affect ocean dynamics, hence, a grid resolution of 5m – 500m was chosen. Latest updates to the model set-up include:

- Variable Bottom Roughness
- Baroclinic structure
- Heating & cooling

This tool has been developed in order to understand the transport of low pH water (acidic) originating from local mangroves throughout the La Parguera Ocean Acidification Testbed.