

Carib-Coast

Caribbean network for coastal risks prevention related with climate change

Main purpose:

It aims to pool, co-build and disseminate knowledge about monitoring methods, coastal risks prevention and adaptation to climate change in the Caribbean. Six Caribbean territories are directly involved in the project: Jamaica, Porto-Rico, Saint-Martin, Guadeloupe, Martinique and Trinidad-and-Tobago.

Project organization:

WP1 « Coordination and management »: Coordination of the project is under the responsibility of the Project Leader, BRGM Guadeloupe, with the assistance of a dedicated Project Manager. Apart from the actions of coordination, this action includes the animation of all the technical activities related to execution of the project, communication and the administrative and financial management of the project.

WP2 « Hydrodynamics observation and modeling »: The objective is to set up and validate a platform of numerical hydrodynamic modeling that will enable the simulation, at the scale of the Caribbean, of ocean circulation, coastal currents and their characteristics (3D circulation) with an accuracy not currently available, as far as littoral processes generating coastal flooding and its propagation onto land. This modeling will include extreme events like cyclones. This regionalization of the effects of climate change will result in a fine analysis of future coastal hazards affecting the Caribbean territories.

WP3 « Coastal erosion monitoring »: The objective is to network and develop observatories of coastal erosion on the Caribbean territory and obtain good practice guides and feedback on the mitigation techniques making use of natural ecosystems for protection against erosion.

WP4 « Decision support tools »: The objective is to supply decision support tools for managing natural coastal risks. This relates to the strategy of managing the risk and adaptation, the use of operational tools, the dissemination and availability of the results via a web portal and the implementation of training and awareness actions.

Duration: 3 years, from 01/11/2018 to 31/10/2021

Main Partnership:

This project is led by the French Geological Survey (BRGM, Guadeloupe). The main partners are IFREMER Antilles (Martinique), ONF (Guadeloupe), IRD (France), SPAW-RAC (Guadeloupe), CNRS (France), UWI (Trinidad-and-Tobago), IMA (Trinidad-and-Tobago), CARICOOS (Puerto-Rico), MGI (Jamaica), Association of Caribbean States.

Other organizations are involved and as much as possible regional cooperation is made to ensure the success of the project and the dissemination of its achievements.

Overall costs : 3 M € funded by the Interreg-Caribbean (EU), 4M € total budget.