Geophysical Research Abstracts
Vol. 19, EGU2017-19190, 2017
EGU General Assembly 2017

From tsunami hazard assessment to risk management in Guadeloupe (F.W.I.)

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The Caribbean region is prone to numerous natural hazards such as earthquakes, landslides, storm surges, tsunamis, coastal erosion or hurricanes.
All these threats may cause great human and economic losses and are thus of prime interest for applied research. One of the main challenges for the scientific community is to conduct state-of-the-art research to assess hazards and share the results with coastal planners and decision makers so that they can regulate land use and develop mitigation strategies.
We present here the results of a scientific collaborative project between Guadeloupe and Porto Rico which aimed at bringing a decision-making support to the authorities regarding tsunami hazards. This project led us to build a database of potential extreme events, and to study their impacts on Guadeloupe to investigate storm surge and tsunami hazards. The results were used by local authorities to develop safeguarding and mitigation measures in coastal areas.
This project is thus a good example to demonstrate the benefit of inter Caribbean scientific collaboration for natural risks management.