ISIS

SUBMARINE SLOPE INSTABILITY IN ZONES OF HIGH SEISMIC ACTIVITY: RUPTURE AND TURBIDITY CURRENT

The strength and originality of this project lies in the fact that it brought together different approaches in the marine geosciences.

Spin-offs and future developments

The project focused on 4 zones – Gulf of Cadiz, Algerian Margin, Nice Submarine Slope and Sea of Marmara. Characterised by seismic and tsunamigenic activity and significant gravitational instability, the four zones each present specific morphological, geodynamic and hydrogeological features. The oceanographic missions undertaken in the different zones studied by the project led to major advances in our detailed understanding of the processes associated with submarine slope instability and deformation of sediment in areas of high seismic activity. Progress has already been made with exploiting the resulting data, although more remains to be done. Lastly, all the data is available to interested organisations and institutions to be able to identify the risks faced by coastal populations in relation to potential hazards – submarine mass movements and the tsunamis associated with these.

16 articles published

Partners

Research centers

Ifremer, Brest [Project Developer]
Collège de France, Aix-en-Provence
École Nationale des Ponts et Chaussées, Champs-sur-Marne
UBO - Institut Universitaire Européen de la Mer, Brest
Université Bordeaux, Bordeaux

Funder

- Agence Nationale de la Recherche

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