

Field Trip

19TH

CARIBBEAN GEOLOGICAL CONFERENCE 2011

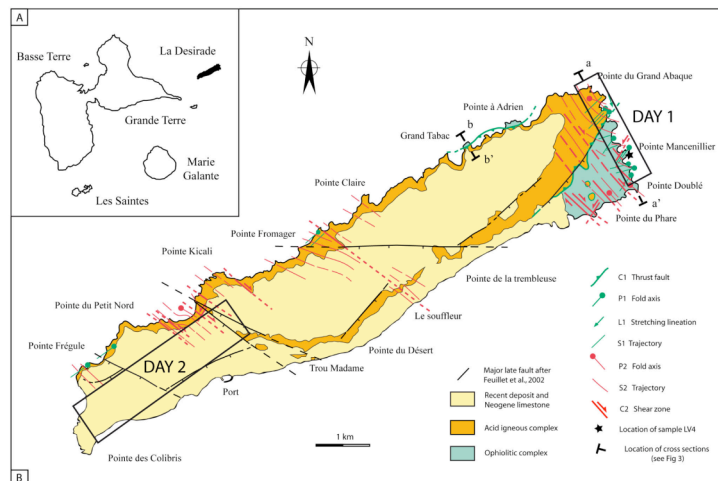
Le Gosier - Guadeloupe - French West Indies

Jurassic basement and Pliocene sedimentary cover at La Désirade

25 and 26, march 2011

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La Désirade is the outermost fore-arc island of the Lesser Antilles subduction zone. It is the only area of this fore-arc where the metamorphic basement of the Caribbean plate outcrops, here capped by Pliocene carbonate formations.



The first day will focus on the basement, to the NE:

- Late Jurassic ophiolitic units with basaltic pillow-lavas, radiolarites and dykes;
- Late Jurassic arc-related volcanic rocks with rhyolitic flows and volcanic breccias;
- Mesozoic tectonics and metamorphism.

The second day will be dedicated to the calcareous cover, to the SW:

- Early Pliocene red algal and reefal facies, Early Pleistocene reefs;
- Late Pliocene and Recent tectonics.