



Field Trip

19TH CARIBBEAN GEOLOGICAL CONFERENCE 2011
Le Gosier - Guadeloupe - French West Indies

Geology and geothermal activity of the Bouillante Volcanic Chain.

25th March 2011

Scientific coordinator (s):

E. Bourdon, V. Bouchot, A. Gadalia, H. Traineau, B. Sanjuan.

1st Stop. Anse Thomas. Hot spring / hydromagmatic and plinian deposits / lava flow. Overview of the geology of Basse-Terre and Bouillante Volcanic Chain.

2nd Stop. Anse Marsolle. Faulting and lava flows / Hydrothermal eruption breccia. Importance of faults in the creation of Bouillante geothermal system.

3rd Stop. Visit of the geothermal plant (Géothermie Bouillante S.A.) and/or the exploitation wells. Overview of the field capacity for geothermal electricity production. Brief history of the development of the geothermal field of Bouillante since the 70's. (*Optional: nearby hot springs in the city*).

4th Stop. Pointe à Lézards /Anse Machette. Machette fault / scoria cone and plinian deposits. Lava flow of Pointe à Lézards. Extension of Bouillante geothermal reservoir on-shore and off-shore.

5th Stop. Bain du Curé. Hot springs / normal faulting / hydromagmatic and plinian deposits.