



Eastern Caribbean Earthquake

28 December 2015

Event Briefing

31 December 2015

1 INTRODUCTION

A magnitude 5.6 earthquake occurred at 06:55:30 UTC (02:55:30 local time) on 28 December 2015, at 26 km (16 mi) SW of Saint-Pierre, Martinique 32 km (20mi) W of Fort-de-France, Martinique, 82 km (51 mi) S of Roseau, Dominica and 78 km (46 mi) NNW of Castries, Saint Lucia. Initial estimates from the United States Geological Survey (USGS) located the epicentre of the event at 14.593°N, 61.371°W, and at a depth of 152.9 km.

2 CCRIF MODEL OUTPUTS

Under CCRIF's loss calculation protocol, a CCRIF Multi-Peril Risk Estimation System (MPRES) report is required for any earthquake with a magnitude of greater than 5.0 within a box bounded by the following – Latitude 2° and 41°N, Longitude 97° and 51°W – which generates a peak ground acceleration of at least 0.01 g in part of at least one member country that has an earthquake policy. This was the case for the December 28 earthquake. Based on the MPRES footprint, a peak ground acceleration of less than 0.03g (very small ground shaking) was felt in a small portion of Dominica and Saint Lucia (Figure 1). For this earthquake event the modelled loss is zero for all CCRIF country members.

3 IMPACTS

According to the Caribbean Disaster Emergency Management Agency (CDEMA) no damage or injuries were reported in Dominica or Saint Lucia.

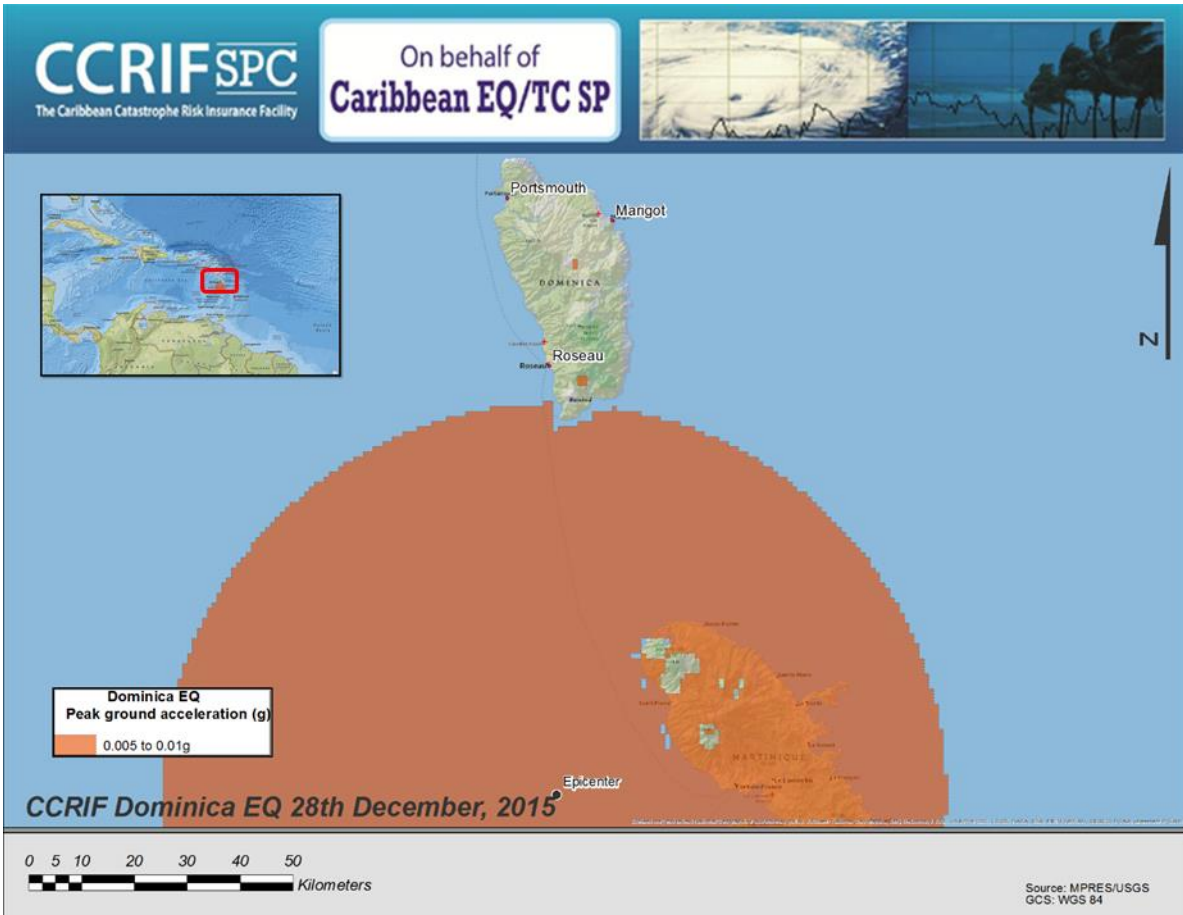


Figure 1: Map showing the peak ground acceleration in Dominica following the magnitude 5.6 earthquake on 28 December 2015.
Source: USGS & CCRIF KAC/MPRES

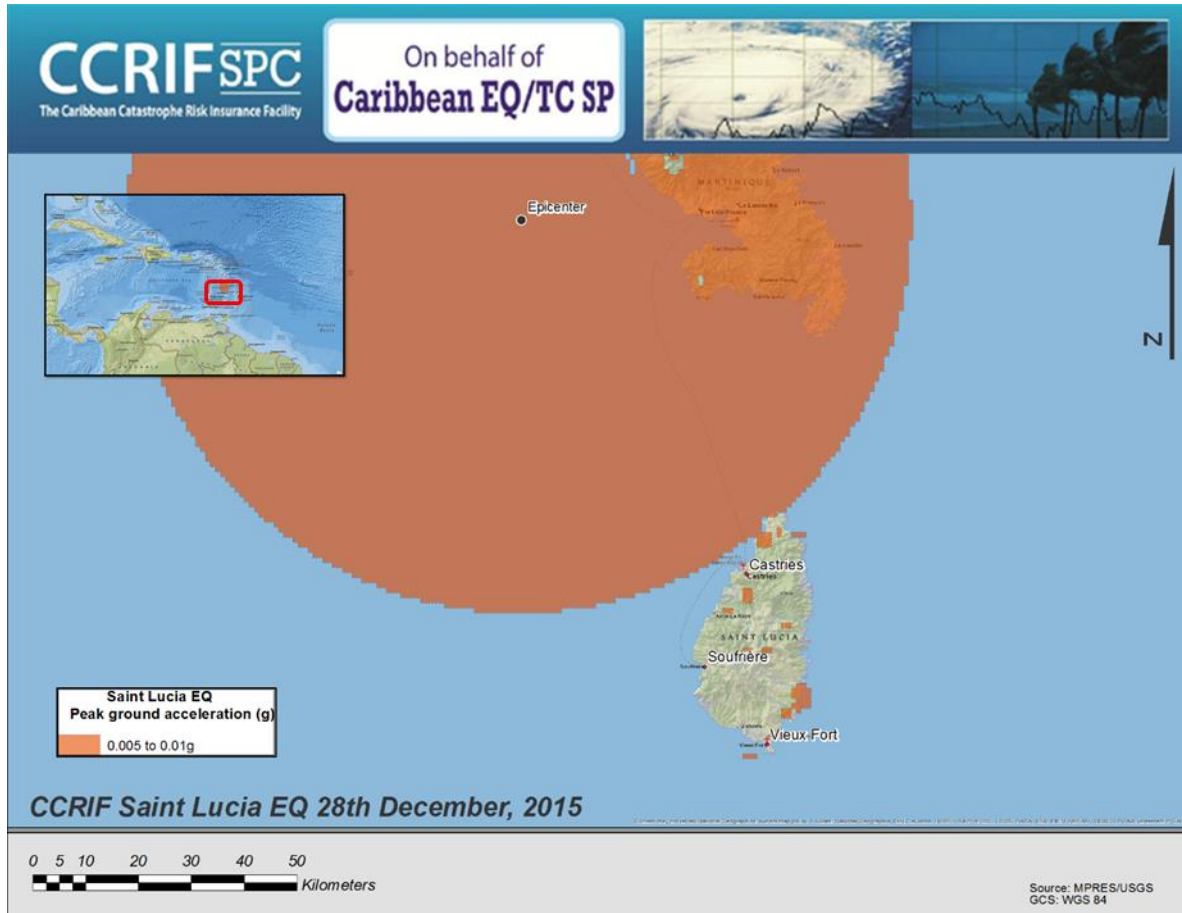


Figure 2: Map showing the peak ground acceleration in Saint Lucia following the magnitude 5.6 earthquake on 28 December 2015. *Source: USGS & CCRIF KAC/MPRES*

For further information, please contact ERN-RED, the CCRIF SPC Risk Management Specialist.

Evaluación de Riesgos Naturales
Vito Alessio Robles No.179
Col. Hda Gpe Chimalistac.
Del. Álvaro Obregón. Cp 01050, México D.F.
+52 (55) 5616-8161, 62, 64
cavelar@ccrif.org