



# Nicaragua

## Earthquake

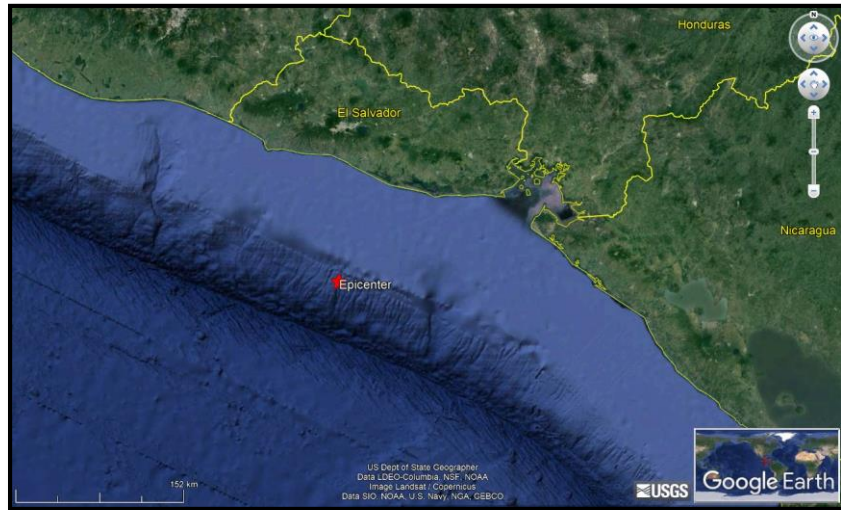
**26 March 2019**

## Event Briefing

**27 March 2019**

## 1 INTRODUCTION

A magnitude 5.6 earthquake occurred at 12:01:48 UTC on 26 March 2019 (06:01:48 local time), 110.2 km (68.5 mi) N of La Libertad, El Salvador; 114.4 km (71.1 mi) NE of Puerto El Triunfo, El Salvador and 118 km (73.3 mi) NNE of Zacatecoluca, El Salvador. Initial estimates from the United States Geological Survey (USGS) located the epicentre of the event (Figure 1) at 12.496°N, 89.233°W, and at a depth of 10.0 km (6.2 mi). Nicaragua was the only CCRIF member country where peak ground acceleration, computed with the MPRES model, was greater than 0.01g for this earthquake.



**Figure 1** Information from the Earthquake Hazards Program of the United States Geological Survey, regarding the earthquake event on 26 March 2019. Source: USGS (<https://earthquake.usgs.gov>).

The earthquake was reported also by the Seismology Department of the Nicaraguan Institute of Territorial Studies (in Spanish: Dirección de Sismología del Instituto Nicaragüense de Estudios Territoriales), with epicentre coordinates 12.340°N and 89.220°W, magnitude 5.3 and depth of 8 km (4.9 mi).

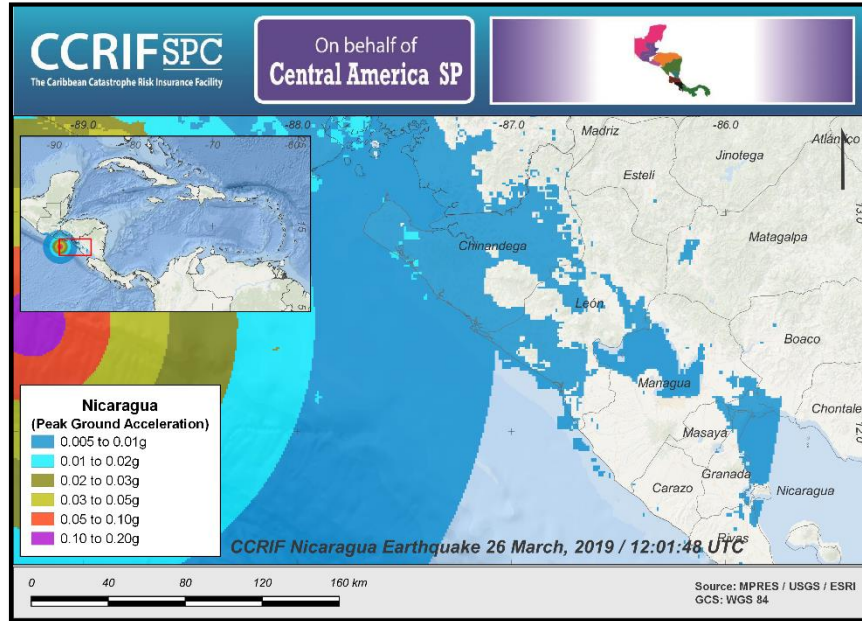
This event briefing is designed to review the model outputs for affected CCRIF member countries using the seismic parameters reported by the USGS.

Preliminary runs of CCRIF’s loss model reported no government losses for Nicaragua and therefore no payout is due.

## 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 or equal to 5.0 that occurs within the region monitored by CCRIF and which generates a peak ground acceleration of at least 0.01 g in one or more grid cells of at least one member country. Based on the MPRES footprint for this earthquake, peak ground acceleration between 0.005g and 0.02g was estimated in the territory of Nicaragua (Figure 2), for which the MPRES loss estimation was zero.

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**Figure 2** Map showing the peak ground acceleration computed using MPRES model in Nicaragua following the magnitude 5.6 earthquake on 26 March 2019. Source: *USGS & CCRIF MPRES*.

### 3 IMPACTS

At the time of this writing, no information was available related to damages or losses in Nicaragua due to this earthquake.

According to the USGS “Did You Feel It?” online tool<sup>1</sup>, in El Salvador within a radius of 131 km (81.4 mi) from the epicentre, 9 persons reported the earthquake as a “weak shake with no damage” to “very strong shake with moderate damage” (Mercalli intensities: II to VII). For Nicaragua within a radius of 317 km (197 mi) from the epicentre, one person reported the earthquake as a “weak shake with no damage” (Mercalli intensity II-III).

### 4 TRIGGER POTENTIAL

The lack of impact reports corroborates preliminary runs of CCRIF’s loss model that generated no government losses for Nicaragua, and therefore no payout is due.

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

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<sup>1</sup> Did You Feel It?, United States Geological Survey, review date: 27 March 2019, available at: <https://earthquake.usgs.gov/earthquakes/eventpage/us1000jlpq/dyfi/responses>