



## Nicaragua

# Earthquake

## 14 September 2022

### **Final Event Briefing**

26 September 2022

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### **1 INTRODUCTION**

A magnitude 5.3 earthquake occurred at 08:44:35 (UTC) on 14 September 2022, 46.5 km (28.9 mi) ENE of Jiquilillo, Nicaragua; 71.6 km (44.5 mi) E of Corinto, Nicaragua and 73 km (45.4 mi) E of El Viejo, Nicaragua. Initial estimates from the United States Geological Survey (USGS) located the epicentre of the event at 12.547°N, 87.828°W, and at a depth of 69.3 km (43.06 mi) – Figure 1.



**Figure 1** Information from the Earthquake Hazards Program of the United States Geological Survey regarding the earthquake event on 14 September 2022 at 08:44:35 (UTC). Source: USGS<sup>1</sup>

Nicaragua was the only CCRIF member country where peak ground acceleration, computed with the SPHERA model, was greater than 0.01 g for this earthquake.

Final runs of CCRIF's loss model estimated no government losses for Nicaragua and therefore no payout under the country's earthquake policy is due.

#### 2 CCRIF MODEL OUTPUTS

Under CCRIF's loss calculation protocol, a report using the CCRIF SPHERA model is produced for any earthquake with a magnitude 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 CCRIF member country. Based on the SPHERA footprint for this earthquake, peak ground acceleration of up to 0.050 g was estimated in Nicaragua (Figure 2), but under SPHERA, the earthquake generated a loss estimation of zero.

<sup>&</sup>lt;sup>1</sup> Download Event KML, United States Geological Survey, review date: 26 September 2022, available at: <u>M 5.3 - 46 km WSW of Jiquilillo, Nicaragua (usgs.gov)</u>

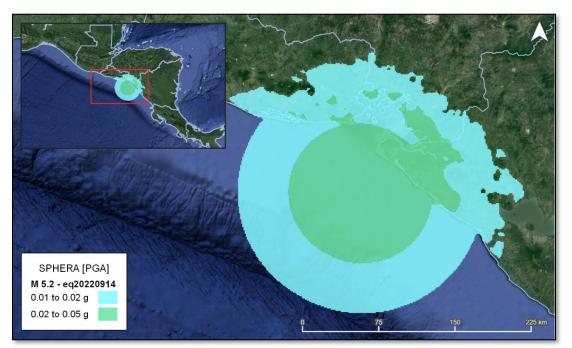


Figure 2 Map showing the peak ground acceleration in Nicaragua computed using SPHERA model following the magnitude 5.3 earthquake<sup>2</sup> on 14 September 2022 at 08:44:35 UTC Source: USGS & CCRIF SPHERA EQ Model.

#### **3 IMPACTS**

At the time of writing this report, there was no available information on damage or loss in Nicaragua due to this earthquake.

According to the USGS "Did You Feel It?" online tool 3 persons in Managua, Nicaragua, within a radius of 186 km (115.75 mi) from the epicentre reported the earthquake as being a "weak shake with no damage" (Mercalli intensity: II-III).

According to local media, there were no reports of damage or casualties as a result of this earthquake.

#### 4 TRIGGER POTENTIAL

Final runs of the CCRIF loss model for peak ground acceleration produced no government losses for Nicaragua. Therefore, no payout under this country's earthquake policy is due.

For additional information, please contact CCRIF SPC at: pr@ccrif.org

<sup>&</sup>lt;sup>2</sup> United States Geological Survey (USGS), review date: 26 September 2022, available at: M 5.3 - 46 km WSW of Jiquilillo, Nicaragua (usgs.gov)