



Nicaragua

Earthquake

12 July 2021

Preliminary Event Briefing

14 July 2021

1 INTRODUCTION

A magnitude 5.2 earthquake occurred at 23:26:35 (UTC) on 12 July 2021, 15.9 km (9.9 mi) SSE of Pochomil, Nicaragua; 22.6 km (14.1 mi) S of San Rafael del Sur, Nicaragua and 32.9 km (20.4 mi) SW of Diriamba, Nicaragua. Initial estimates from the United States Geological Survey (USGS) located the epicentre of the event at 11.642°N, 86.447°W, and at a depth of 93.8 km (58.3 mi – Figure 1). Nicaragua was the only CCRIF member country where peak ground acceleration, computed with the CCRIF System for Probabilistic Hazard Evaluation and Risk Assessment (SPHERA) model, was greater than 0.01 g for this earthquake.

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

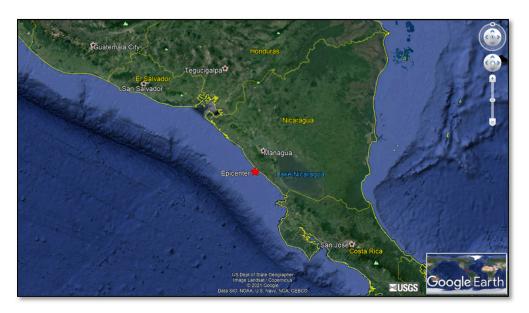


Figure 1 Information from the Earthquake Hazards Program of the United States Geological Survey regarding the earthquake event on 12 July 2021 at 23:26:35 UTC. Source: USGS¹

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 0.05 g was estimated in Nicaragua (Figure 2), but under SPHERA the earthquake generated a loss estimation of zero.

¹ Download Event KML, United States Geological Survey, review date: 13 July 2021, available at: https://earthquake.usgs.gov/earthquakes/eventpage/us7000elcr/executive

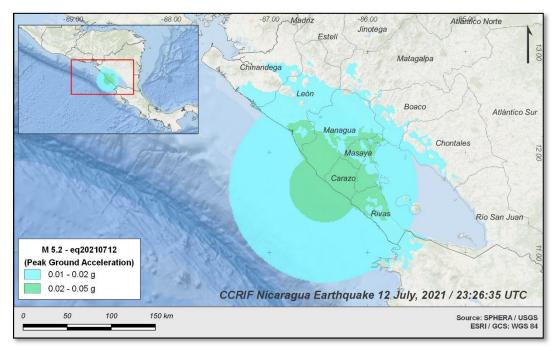


Figure 2 Map showing the peak ground acceleration in Nicaragua computed using SPHERA model following the magnitude 5.2 earthquake on 12 July at 23:26:35 UTC.

Source: USGS & CCRIF SPHERA EQ Model.

3 IMPACTS

At the time of writing this report and according to Vice-President of Nicaragua, Rosario Murillo, and with information published in the local news², the earthquake was felt by the population in Carazo, Managua, Rivas, León and Chinandega but no injuries to persons or damage to infrastructure were reported.

According to the USGS "Did You Feel It?" online tool⁴, 13 persons in Nicaragua within a radius of 110 km (68.3 mi) from the epicentre reported the earthquake as being a "weak shake with no damage" to "moderate shake with very light damage" (Mercalli intensities: II - V).

4 TRIGGER POTENTIAL

Preliminary runs of CCRIF's loss model generated no government losses for Nicaragua for this earthquake and therefore no payout is due under Nicaragua's CCRIF policy for earthquake.

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

² El 19 Digital, review date: 14 July 2021, available at: 'Fuerte sismo en el Pacífico de Nicaragua'

³ La Prensa, review date: 14 July 2021, available at: 'Sismo de 5.5 sacude parte del territorio nicaragüense'

⁴ Did You Feel It?, United States Geological Survey, review date: 14 July 2021, available at: https://earthquake.usgs.gov/earthquakes/eventpage/us7000elcr/dyfi/responses