

# **Cayman Islands Earthquake September 2014**

## **Event Briefing**

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**5 September 2014**

## **1 INTRODUCTION**

A magnitude 5.2 earthquake occurred at 23:34:14 UTC (18:34:14 local time) on 3 September 2014 south of the Cayman Islands. Initial estimates from the US Geological Survey (USGS) locate the epicentre of the event at 18.899°N, 81.317°W, and at a depth of 10 km. Reports from the Cayman Islands indicate that shaking intensities ranged from II to IV on the Modified Mercalli Index.

Earlier in the day, a 5.1 earthquake occurred at 10:01:04 UTC (05:01:04 local time). The epicentre of the event was located at 18.965°N, 81.341°W, and at a depth of 10 km. Reports from the Cayman Islands indicate that shaking intensities from this earthquake also ranged from II to IV on the Modified Mercalli Index.

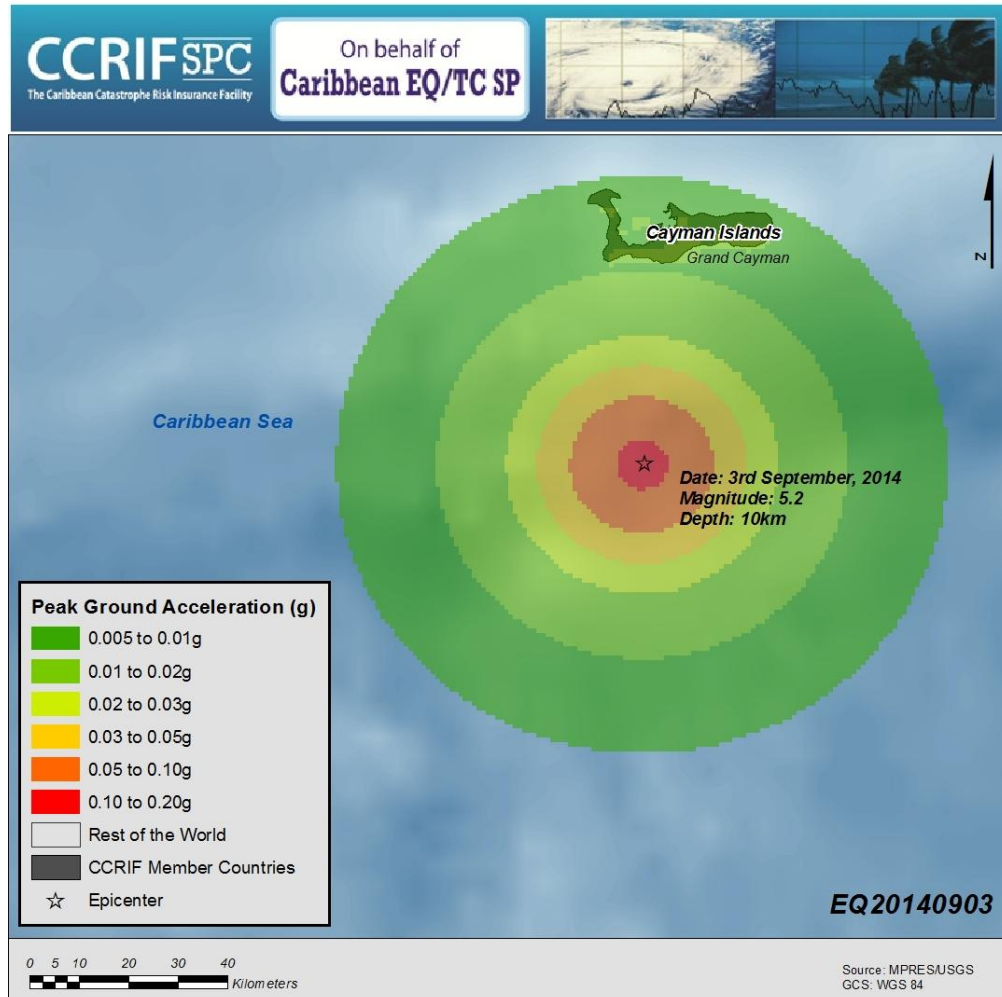
## **2 CCRIF MODEL OUTPUTS**

Under CCRIF's loss calculation protocol, a CCRIF Multi-Peril Risk Estimation System (MPRES) report is required for any earthquake with a magnitude of 5.0 or greater affecting at least one of the 16 member countries.

## **3 IMPACTS**

Based on the MPRES footprint, the only CCRIF member country affected by the earthquake on 3 September 2014 was the Cayman Islands. No significant damage was reported.

These reports are corroborated by preliminary runs of the CCRIF loss model that did not generate any government losses in the Cayman Islands and therefore no payout is due.



**Figure 1** Map showing the peak ground acceleration following the magnitude 5.2 earthquake on 3 September 2014. *Source: USGS & CCRIF KAC/MPRES*