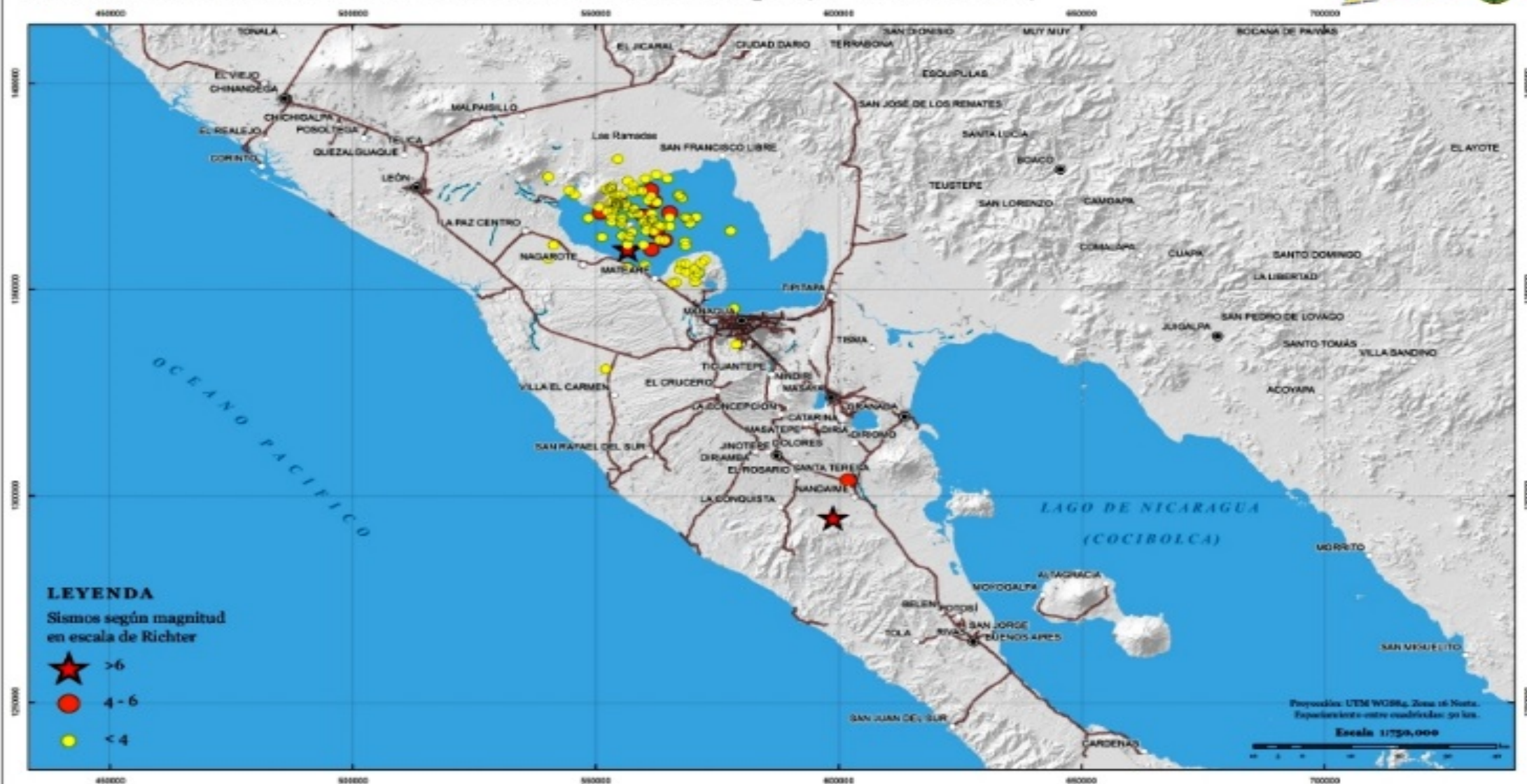


## Earthquake on April 10 in Nicaragua



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# Localización de la actividad sísmica en el Pacífico de Nicaragua (10 - 11 Abril 2014)




## Brief description

Nicaragua suffered a strong Earthquake in Nicaragua, exactly at Nagarote, it is part of a department of Leon. The Earthquake started at 5: 27 PM, the magnitude of the Earthquake was 6.2 on the Richter scale during 45 seconds with a depth of 10 km.

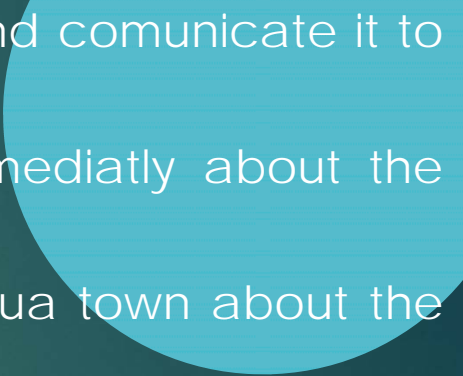
The Earthquake causes considerable damage to different houses at Nagarote for example: "Mateare and The Brasiles".

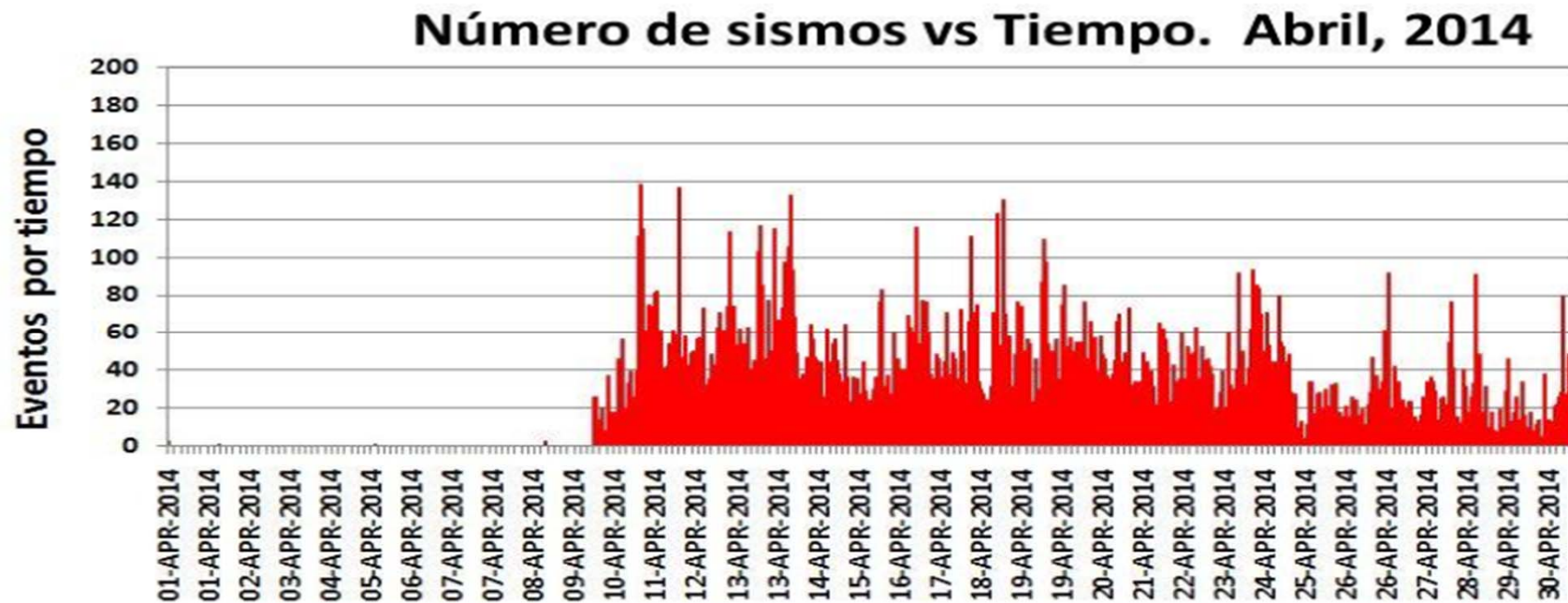
Half an hour after occurred at the same zone other heavy tremor with magnitude 5 also impact on the villages around west of the lake Managua, and then the seismic activities continued.





INETER has a monitoring center to identify tremblors and earthquakes. To inform if the Earthquake occurred, the institution has to follow these steps:

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- ▶ INETER has to identify the place where the event occurred and communicate it to SINAPRED and Civil Defense.
  - ▶ SINAPRED and Civil Defense must tell to the president immediately about the event.
  - ▶ President and first lady have to communicate to the Nicaragua town about the trouble
  - ▶ The government has to take actions to save the security of the town



**Figura 1.** Gráfico del número de sismos registrados cada 10 minutos, contabilizado por el programa RSAM. Usando la estación sísmica ubicada en Cerro Negro (CNGN). Del 10 al 30 de Abril, 2014. .

The first 18 hours after Earthquake, occurred a huge amount of temblors, SEISCOMP found the majority of the temblors but the seismic stations were saturated with continuous way.



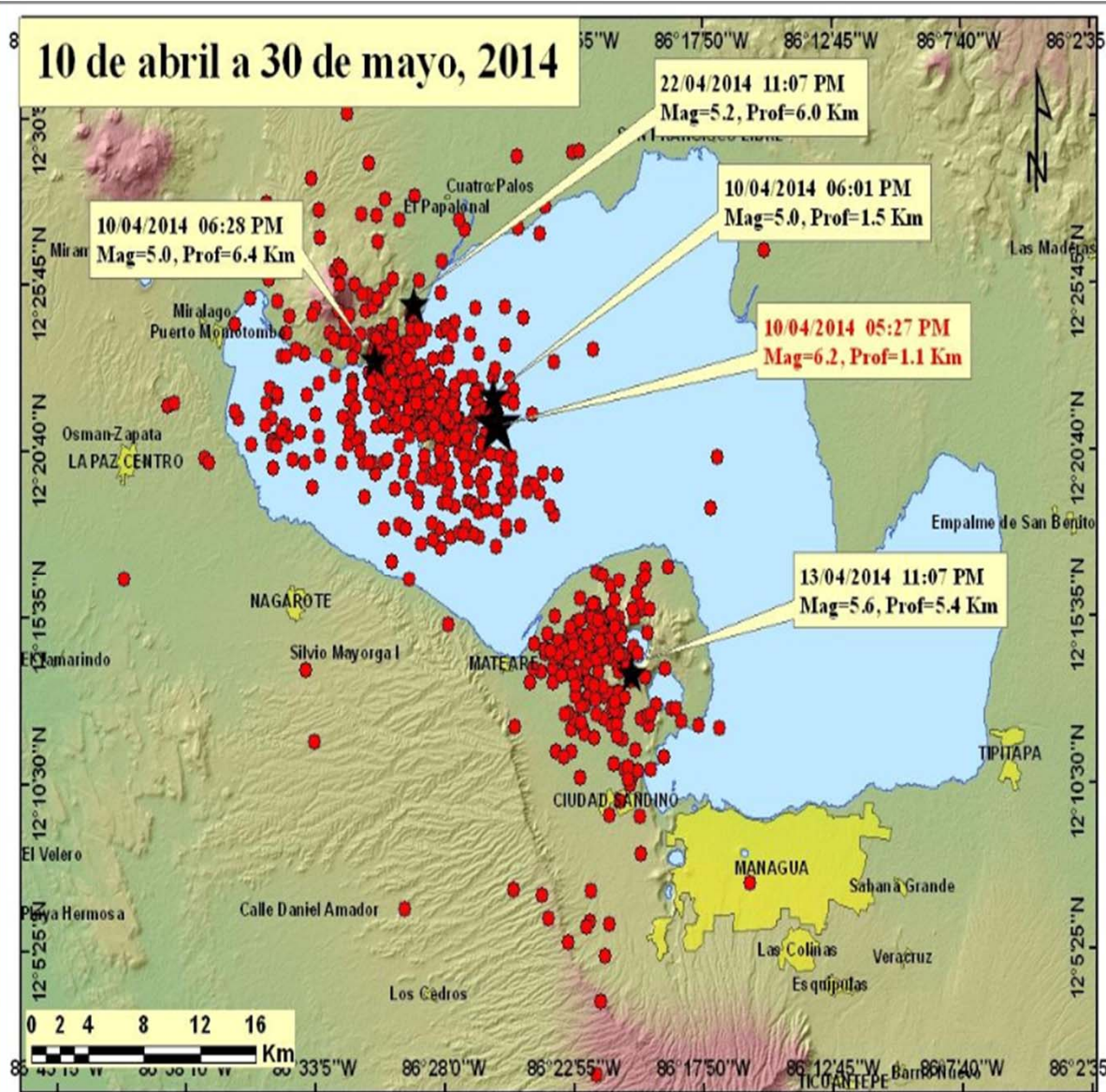


Figura 3. Mapa epicentral de los sismos localizados entre los volcanes Momotombo, Momotombito y Apoyeque

Increased seismic activity was registered from April 10 to April 16 but the seismic activity it remained during all month, generating thousands of temblors with more than 64,698 approximately however only 642 it were localized.

The Earthquake left one person died, 33 people injured and more than 800 homes damaged

# Activities after the Earthquake


1. Improve the seismic network and volcanic monitoring

The government of Venezuela facilitated as loan 4 seismic stations. It were installed in Chiltepe, Ciudad Sandino, Punta huete y Cofradia.

2. The government of Nicaragua bought 20 digital accelerographs and 8 seismic stations.

3. The government made a contract with Panama to check out seismological equipment at INETER and can install or re-install in the field.

4. Cuba support to Nicaragua with a person who is specialist in repair seismologic equipments, with this way he can repair it and helped to INETER to re-install in the field.



After the Earthquake the authorities of Nicaragua has been studied different places where the event occurred, the government chose to demolished old buildings, to evacuate a lot of people because they were in damage zone, attended injured people like campaign hospital and to build houses again for families without nothing.

Now Nicaragua Invest more in seismic equipment to detect temblors and earthquakes, Also if you want to build the government is more strict with the place where you want to do it. Before to build you want to look for a map and locate your place to see if there are geologicals faults.



# Accelerographs stations installed on April 2014

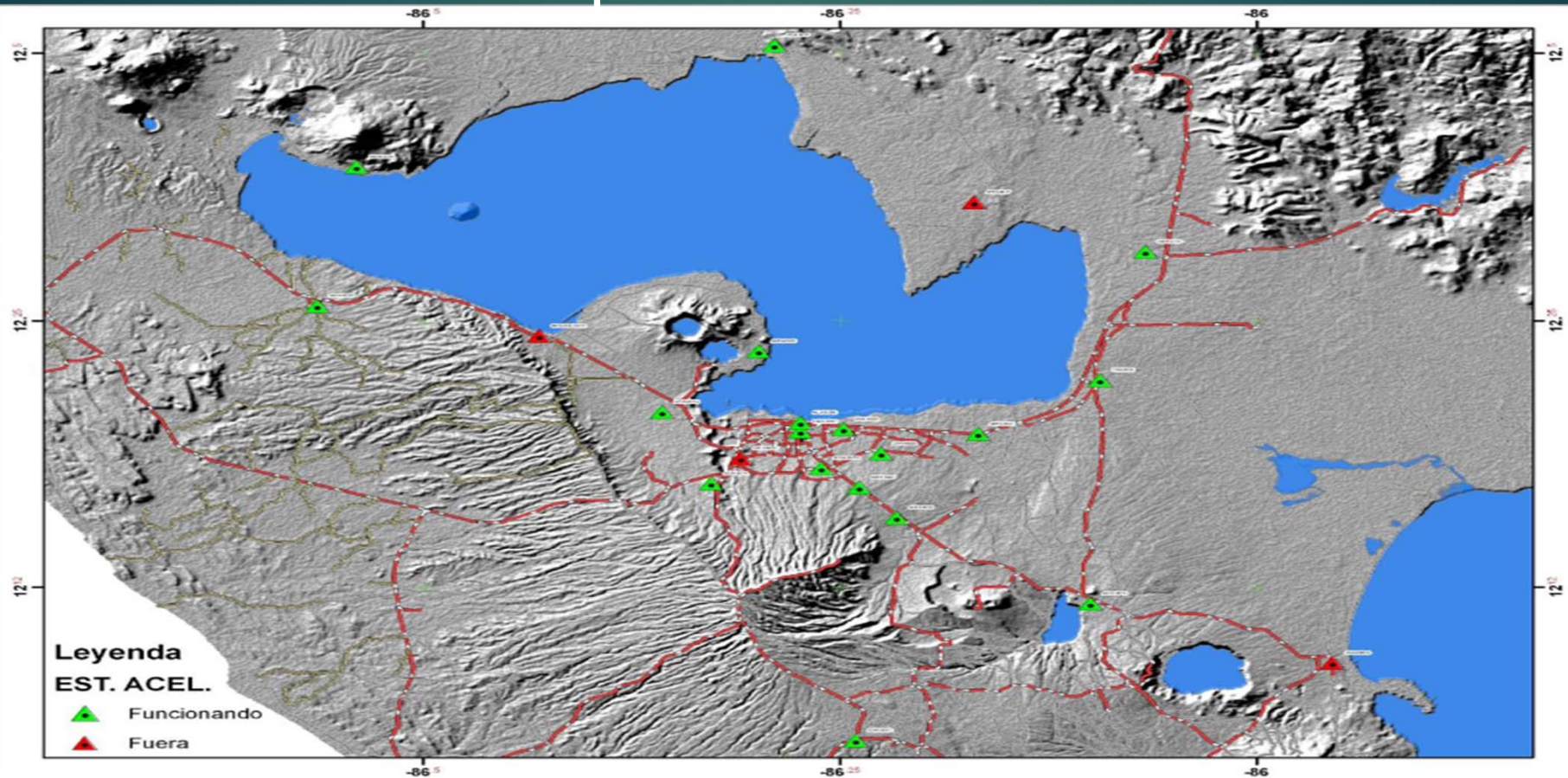


Figura. Mapa de las estaciones Acelerográficas. Instaladas en Abril, 2014

# Seismic Stations installed





# Many damages caused by the earthquake



Los Brasiles



Los Brasiles



Los Brasiles



Los Brasiles













# Campaign hospital installed by civil defense



Thank you for your  
attention

