

Santiago, Chile – May 25-29, 2015

Workshop on
National Geophysical Networks in Latin America
Best Practices, Challenges, and Opportunities for Collaboration

Geophysical Networks in Panamá

Eduardo Camacho Astigarrabía

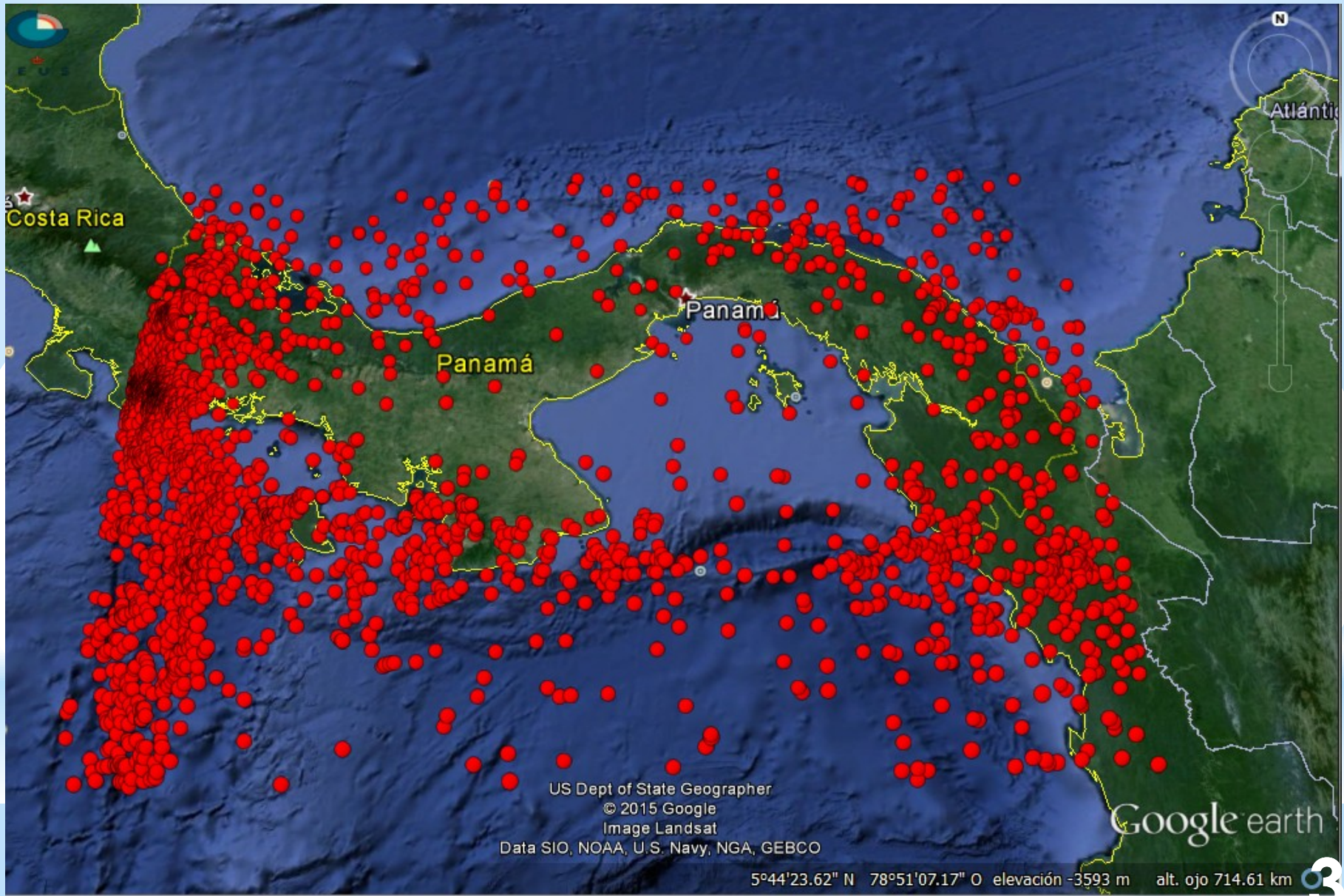


Outline

1. Seismicity.
2. Long History of Geophysical Monitoring
3. Geophysical Monitoring in 2015



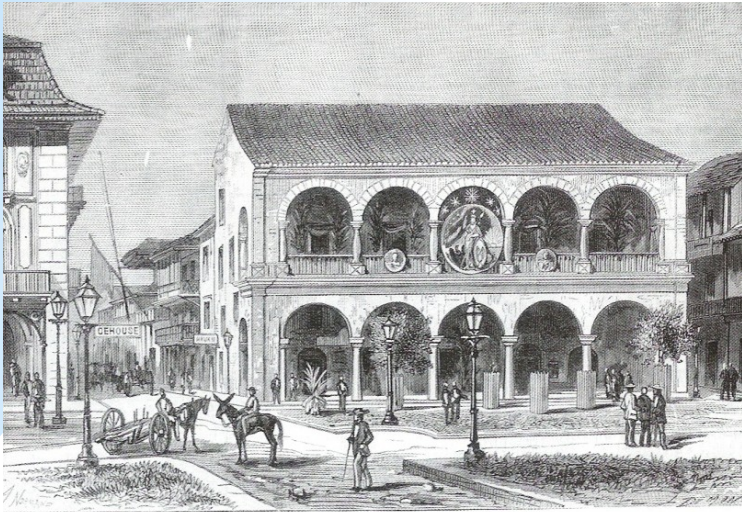
1. Seismicity

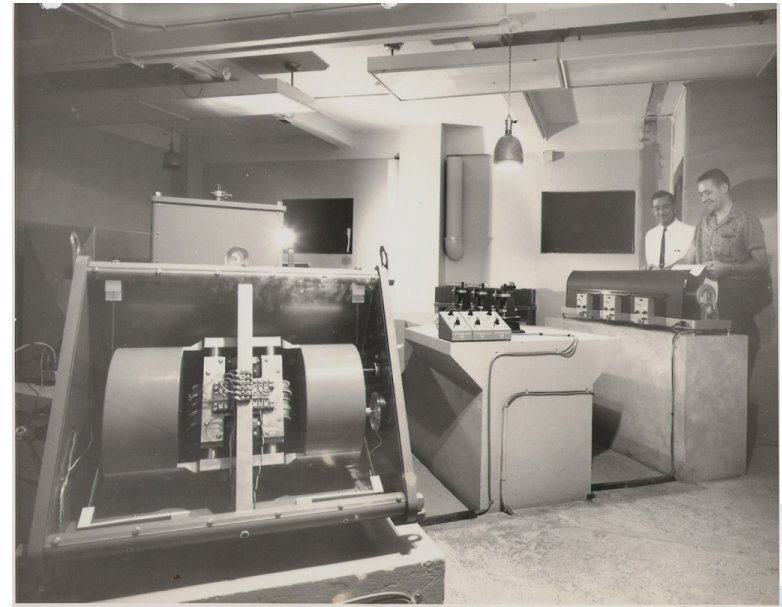
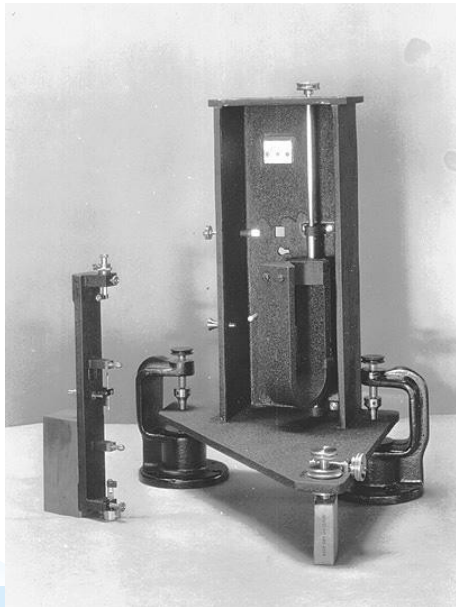


2. Long History of Geophysical Monitoring

Panama has a long history of geophysical monitoring. The first seismic instrument in the Western Hemisphere was installed in Panama City by the *Compagnie Universelle du Canal Interocéanique de Panama* in early 1882. This instrument recorded the great tsunamigenic earthquake (M8.0) of September 7, 1882, with epicenter offshore the northeast Caribbean coast of the Isthmus.

September 7, 1882 Earthquake (Ms>7.9).





3. Geophysical Monitoring in 2015

Broad Band Sensors

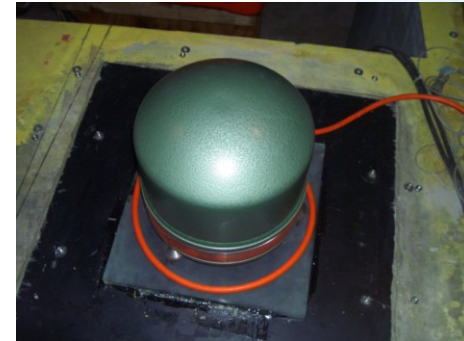
RefTek 151B-120



TrilliumCompact 120 s



Streckheisen 120 s



Short Period Sensors

Darien



Ranger



Sixaola



Strong Motion Sensors

FAB23



RefTek 147-1-3



Titan



Digitizers

Earth Data 209



RefTek 130-01



Kinometrics

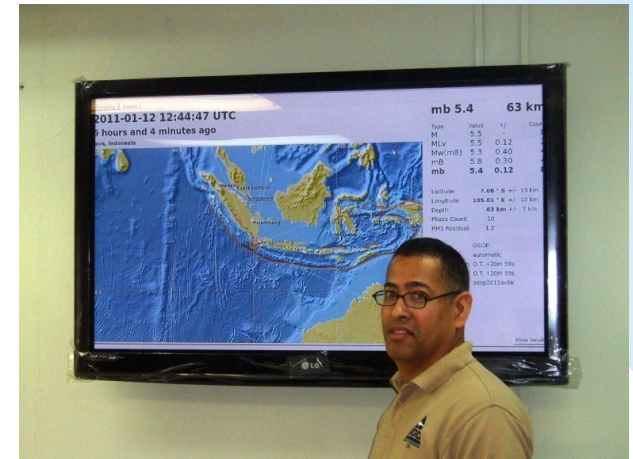
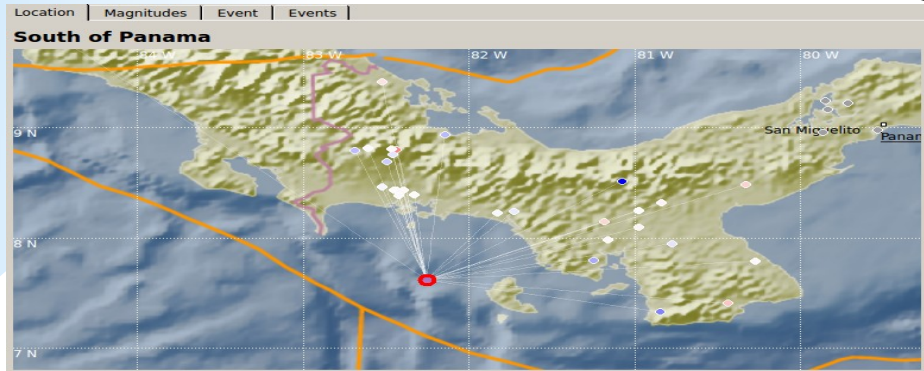


Quanterra Q-330

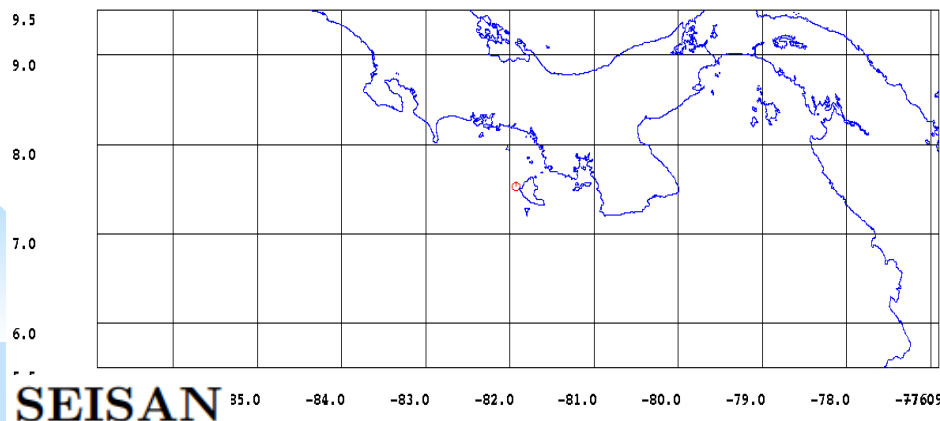


Earthquake Processing

Automatic Processing



Manual Processing



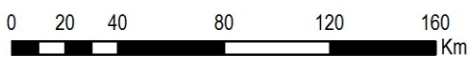




Short Period Stations

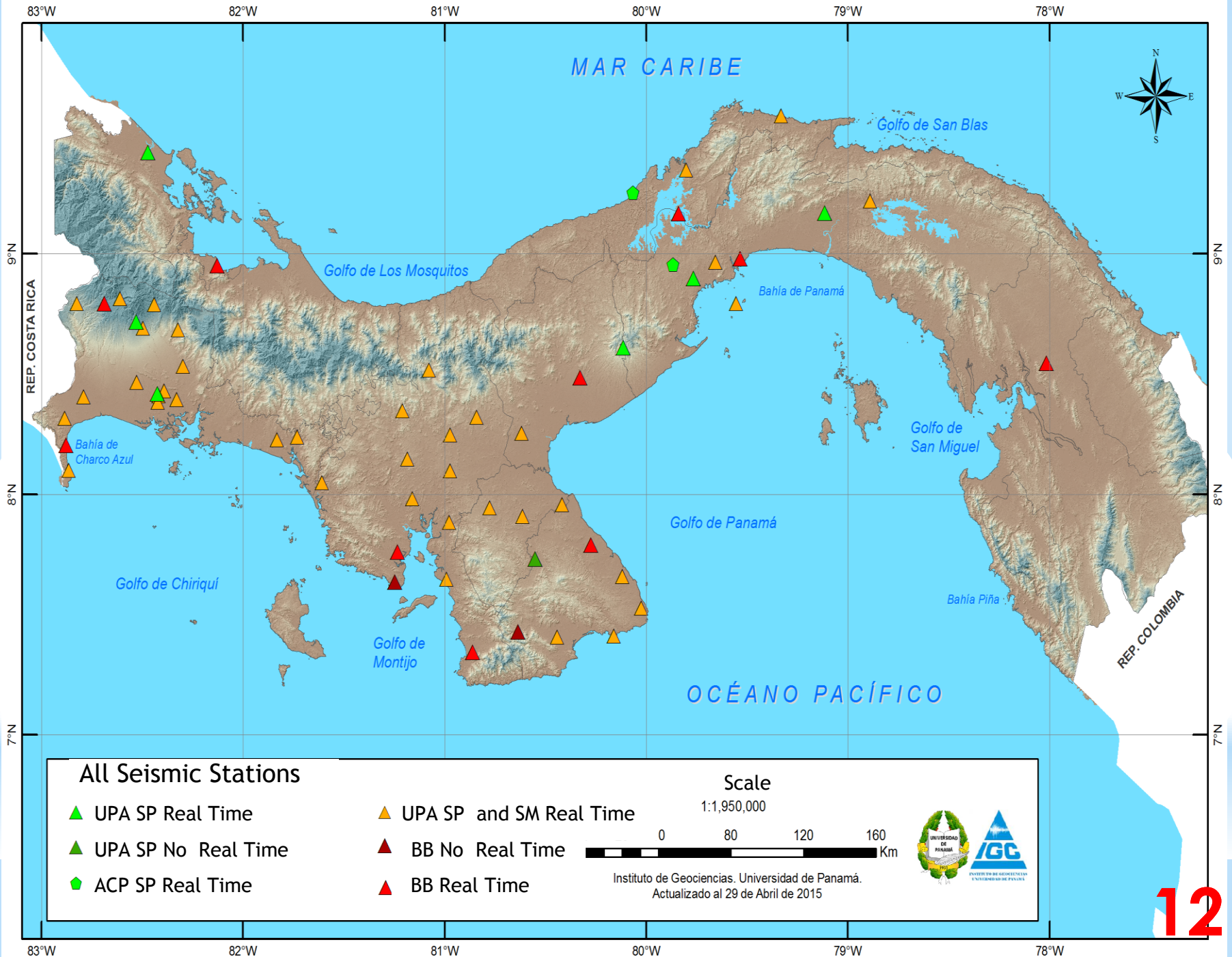
- ▲ UPA Real Time
- ▲ UPA No Real Time
- ▲ ACP Real Time

Scale
1:1,950,000



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Actualizado al 29 de Abril de 2015



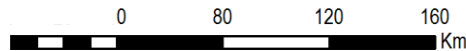


All Seismic Stations

- ▲ UPA SP Real Time
- ▲ UPA SP No Real Time
- ◆ ACP SP Real Time
- ▲ UPA SP and SM Real Time
- ▲ BB No Real Time
- ▲ BB Real Time

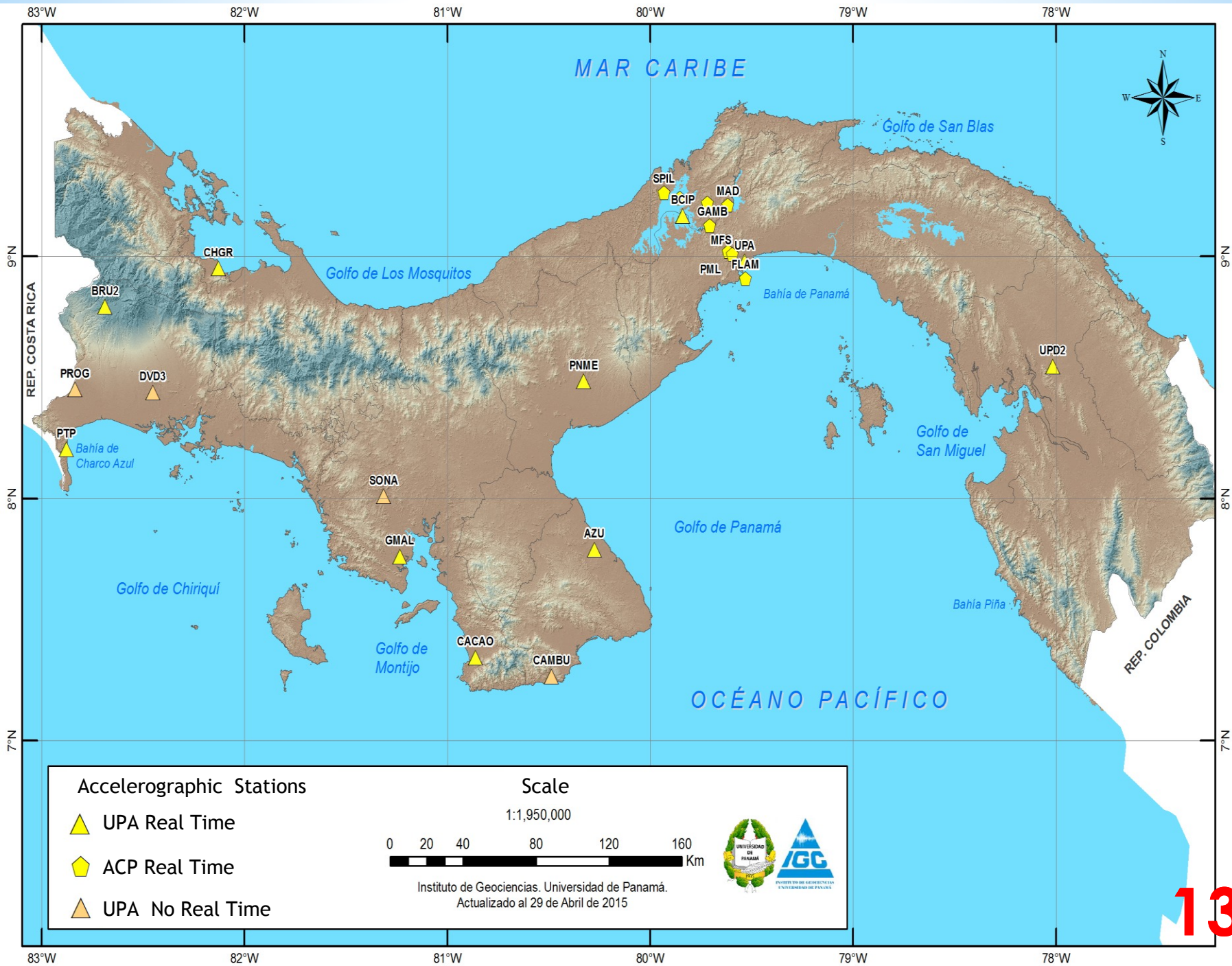
Scale

1:1,950,000

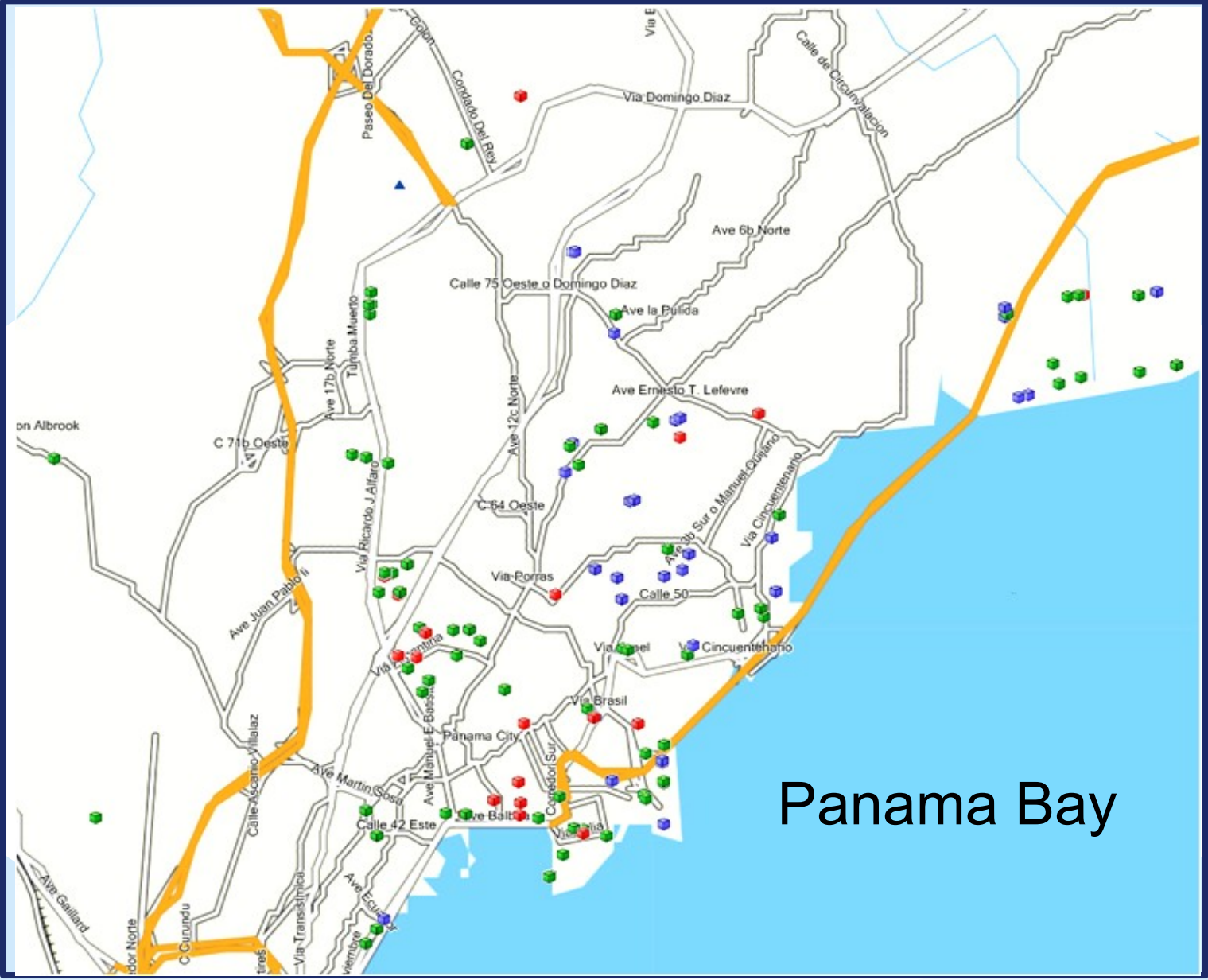


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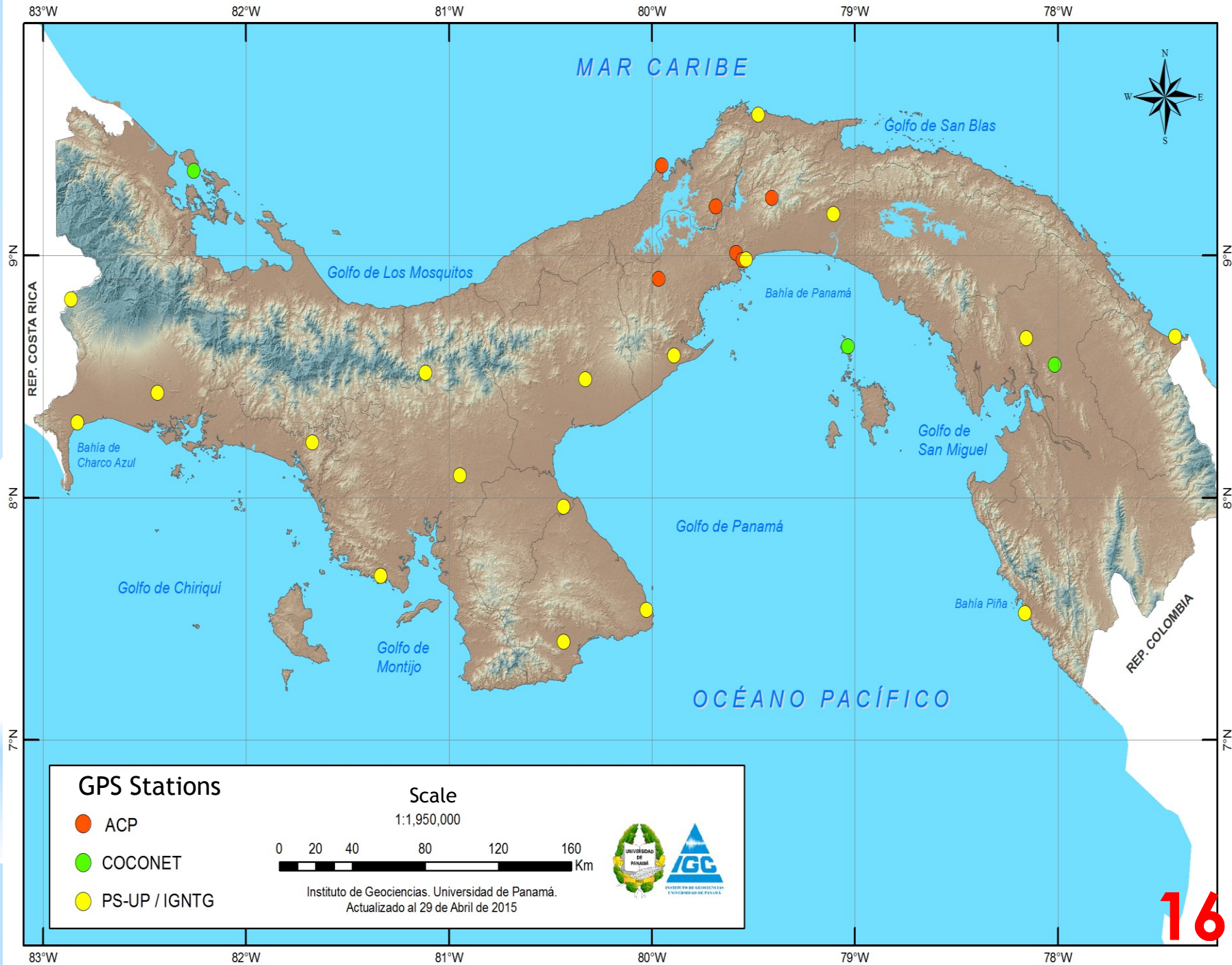
UTP Strong Motion Network at Panama City Panama



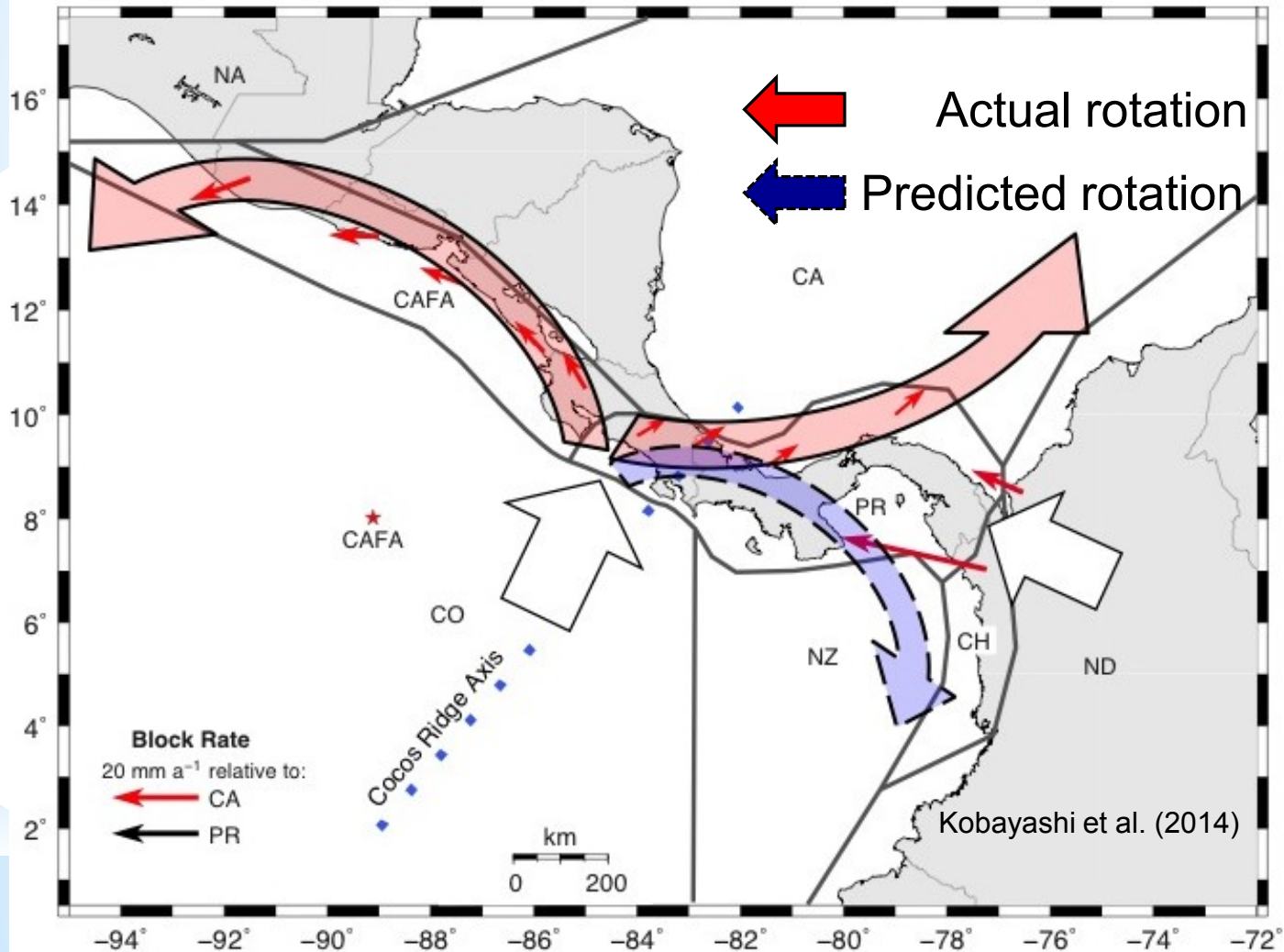
Panama Bay

GPS Stations in Panama





Mechanism for Panama Microplate Motion



Thanks for your kind attention!

