Geophysical Networks in Panamá

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Outline

1. Seismicity.
2. Long History of Geophysical Monitoring
3. Geophysical Monitoring in 2015
1. Seismicity
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
- Kinemetrics
- Quanterra Q-330
Earthquake Processing

Automatic Processing

Manual Processing
Short Period Stations

- UPA Real Time
- UPA No Real Time
- ACP Real Time
GPS Stations in Panama
Mechanism for Panama Microplate Motion

Kobayashi et al. (2014)
Thanks for your kind attention!