Santiago, Chile – May 25-29, 2015

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

Seismic Monitoring in Guatemala

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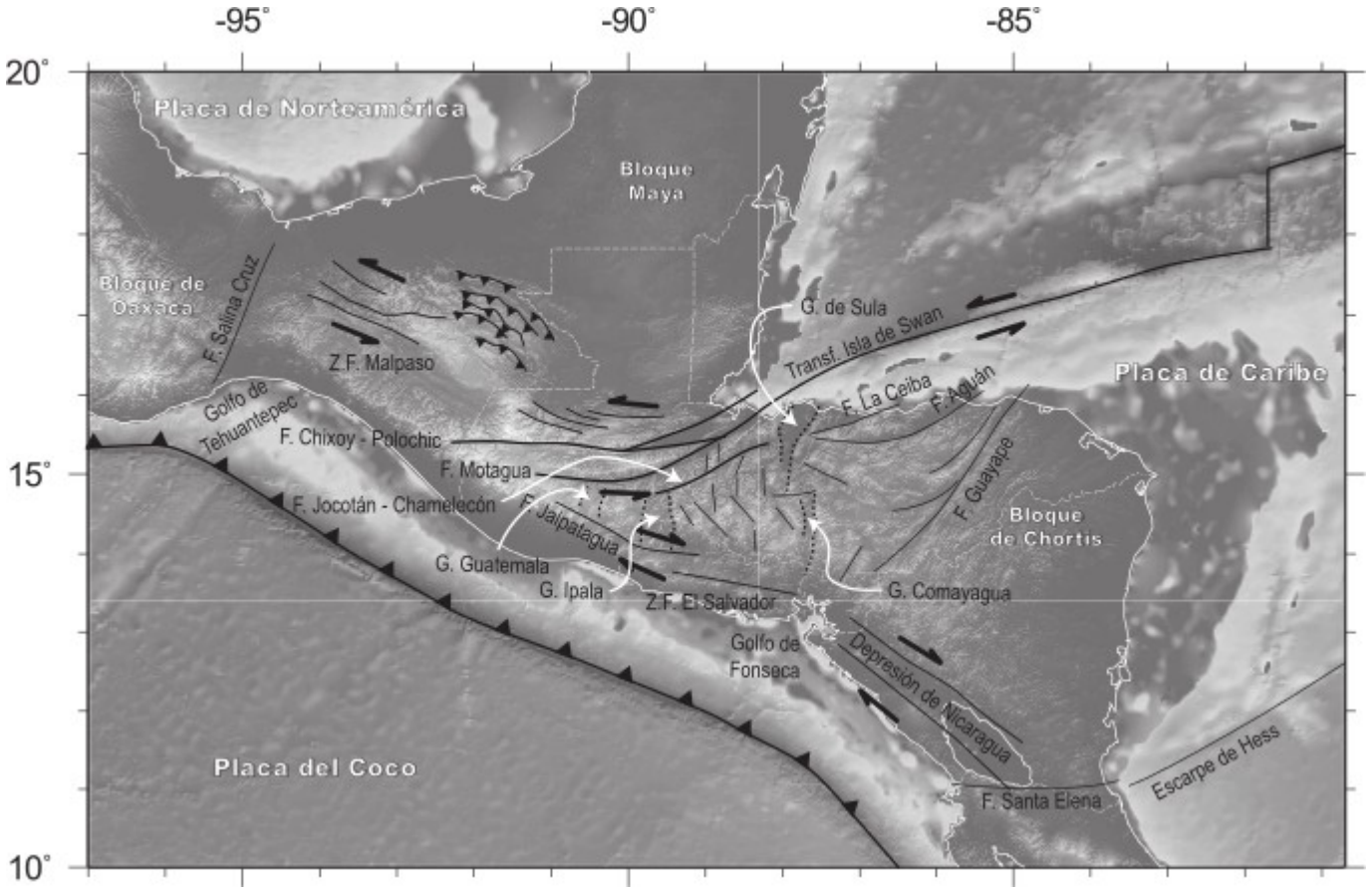
INSIVUMEH

IRIS Workshop: National Geophysical Networks in Latin America
Santiago Chile, May 2015

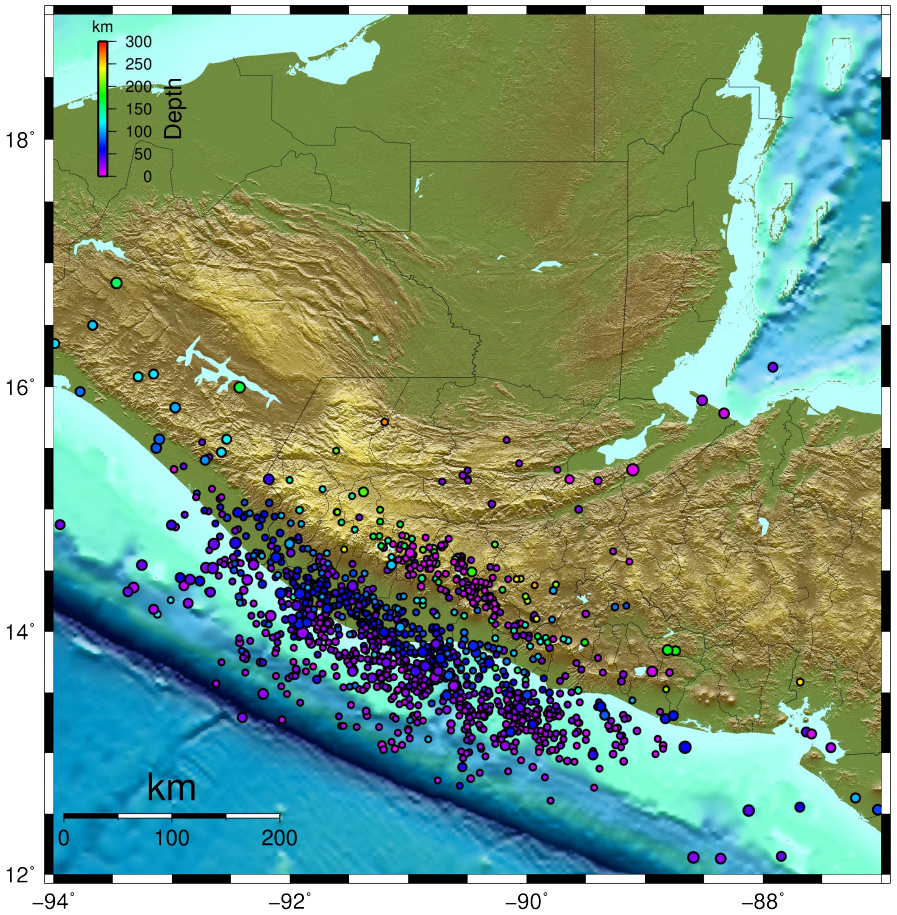
May 25, 2015

Tectonic frame

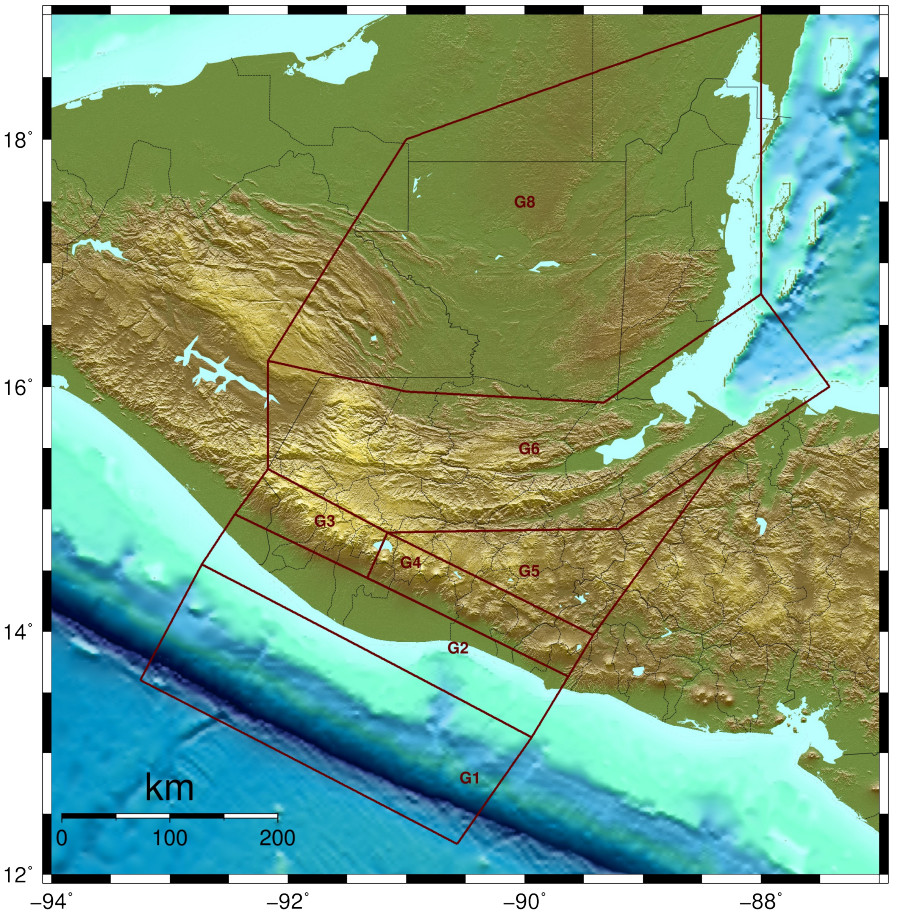


Tectonic frame of Northern C.A. Alvarez, J (2009)

Local seismicity and zonification



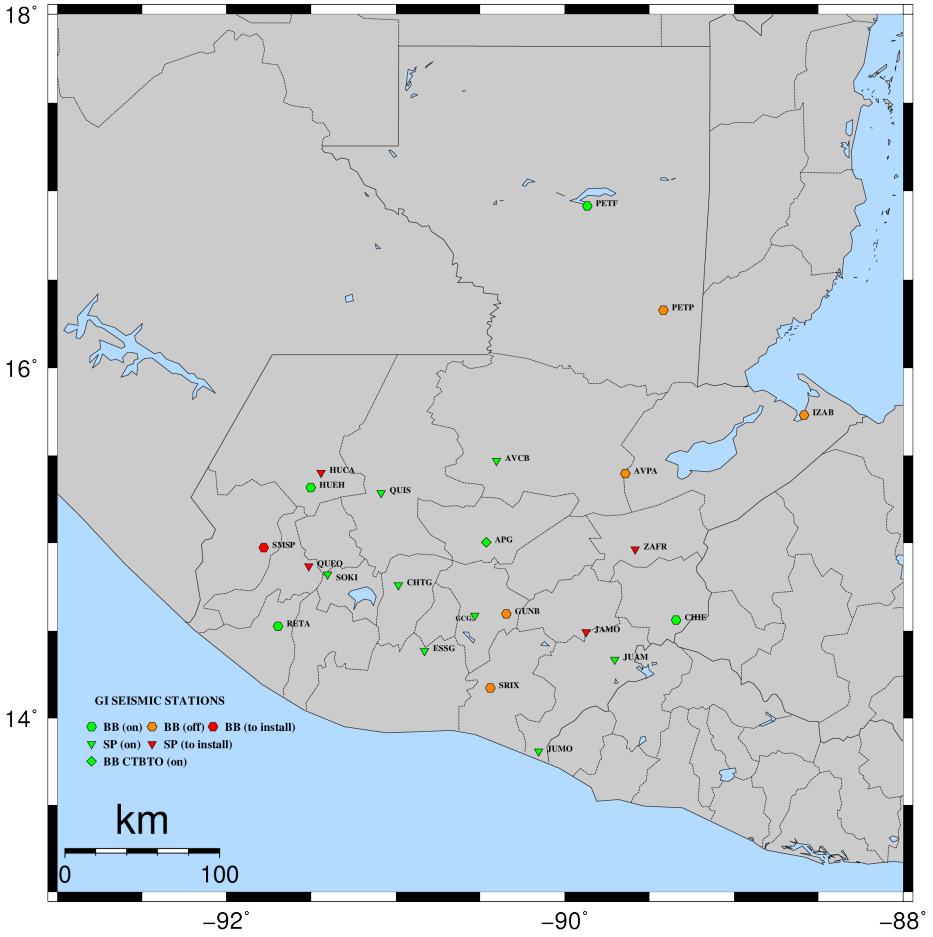
Map with seismicity (M>4) located in Guatemala Republic and around, betwen 1984 and 2014.



Superficial seismogenic zonification. Modified from Molina, et.al. (2009)

National Seismic Network (GI)

Digital Seismic Network



No. Stations	Sensor type
5	3C BB Guralp CMG-3ESP
5	3C BB Guralp CMG-6T
13	3C SP Sixaola

Telemetry: VSAT and cell modem

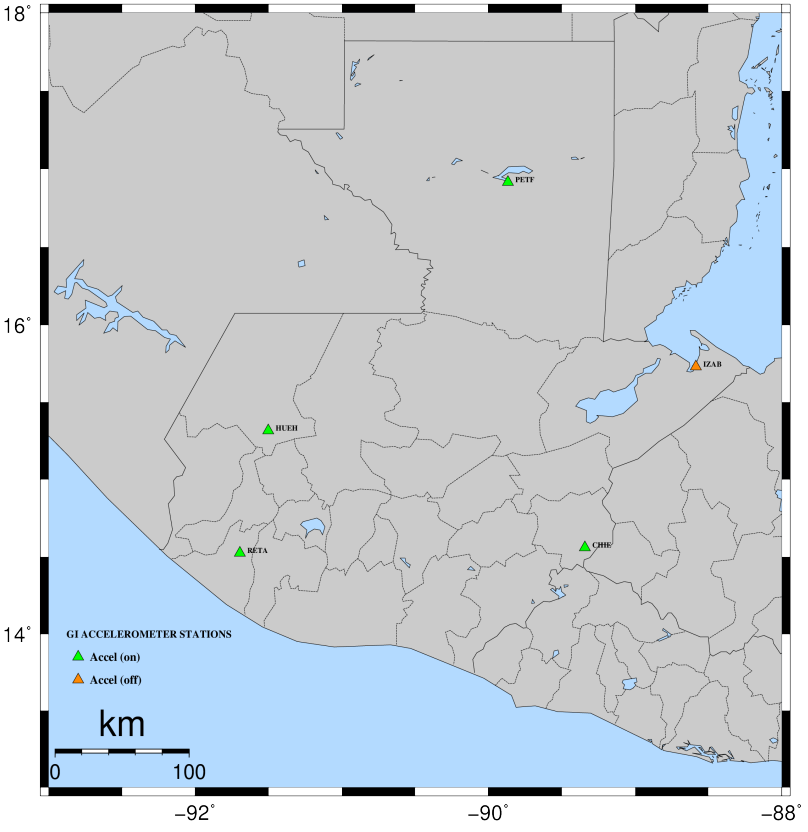
National Seismic Network (GI)

Analogical Seismic Network

8 analogical short period stations

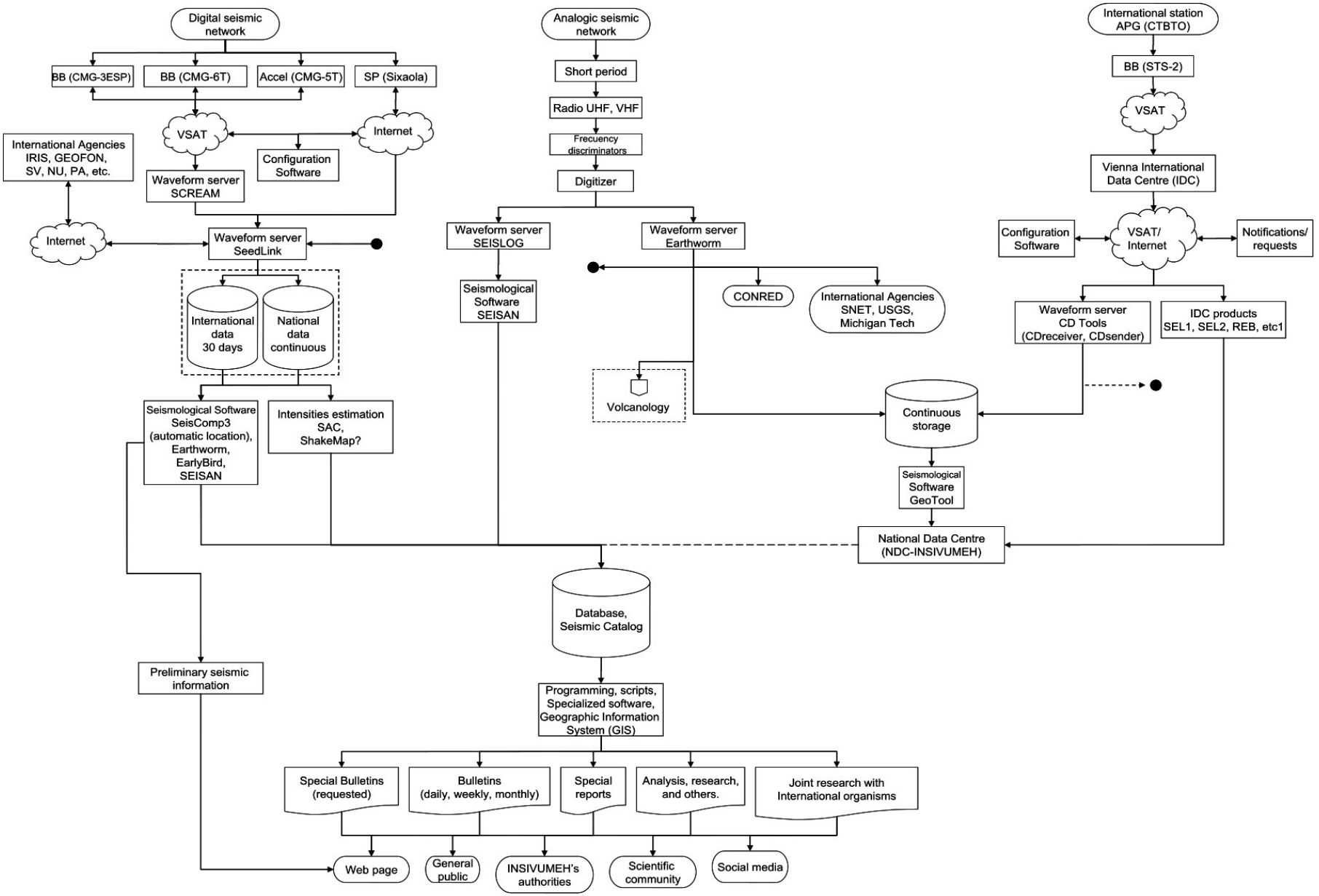
Telemetry: radio UHF and VHF

Accelerometer Network



5 accelerometer stations
Guralp CMG-5T
Telemetry: VSAT

Operational Diagram



Main components of INSIVUMEH's monitoring system

Staff and annual budget of seismology department of INSIVUMEH

Name	ocupation
Porras Ardon, Oscar F.	department's head, geophysics, informatics
Yani Quiyuch, Robin O.	seismic monitoring, strong motion, research
Bautista, Luis A.	seismic monitoring, research
Castellanos Dieguez, Pablo R.	seismic monitoring, informatics, research
Alvarado Sosa, Rodolfo	seismic monitoring, GIS, research
Arriola, Luis A.	seismic monitoring, informatics
Valdez Dell, Francisco	seismic monitoring, GIS
technician 1	electronics
technician 2	electronics

Description	approx. amount (US dollar)
Salaries	282 000
Basic services	20 100
Office supplies	19 600
Total	321 700

Thank you!

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