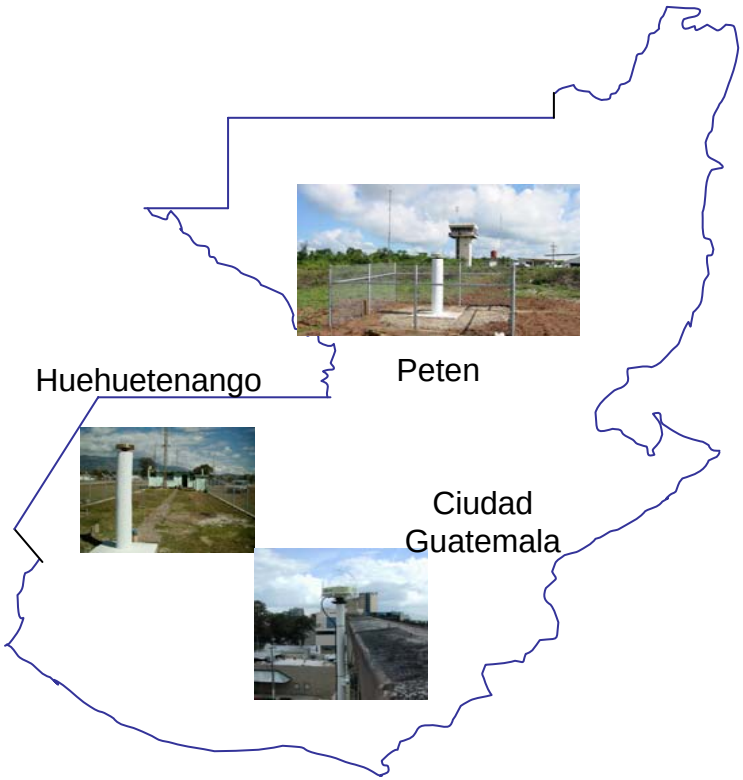
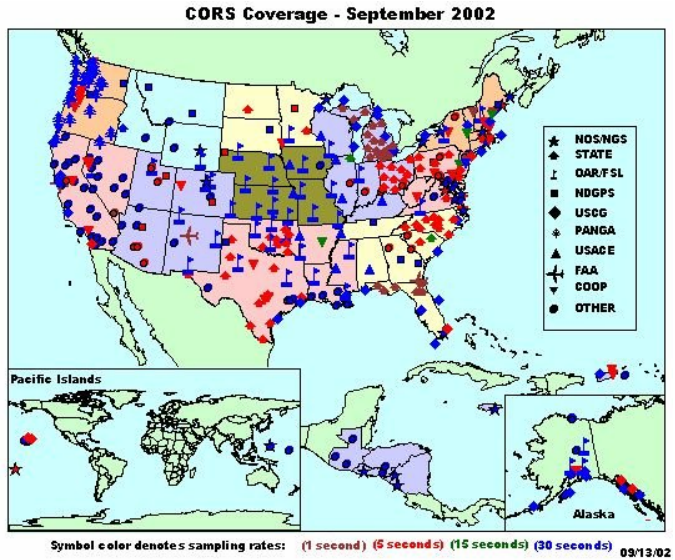
Redes Geodésicas de Guatemala

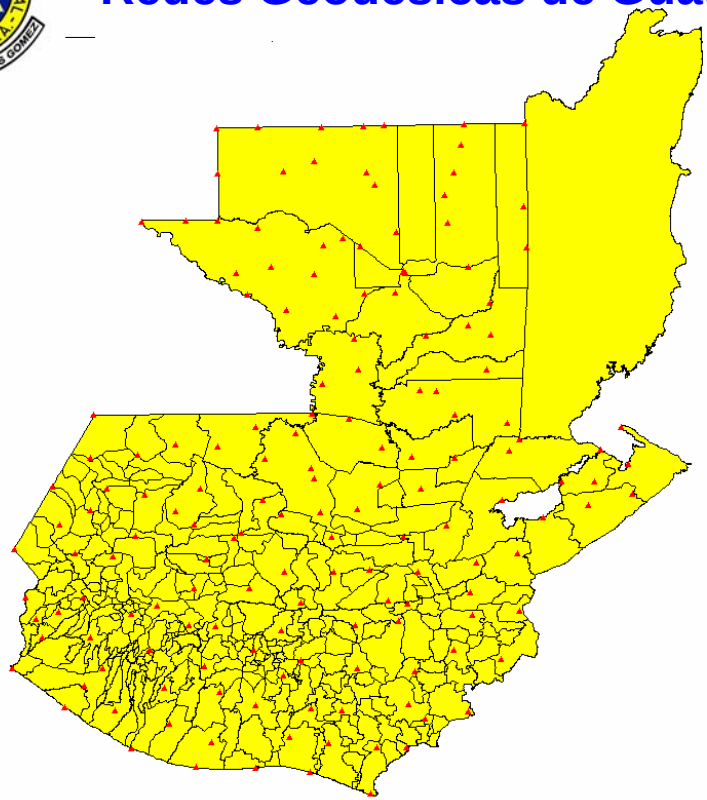
Estaciones Geodésicas de Referencia de Operación Continua-CORS,

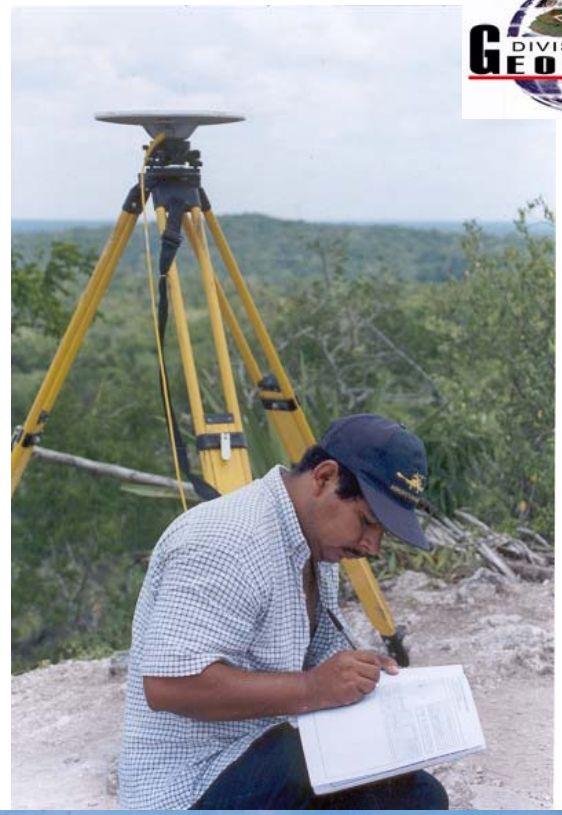
Certificadas por la Administración Nacional Atmosférica y Oceánica (NOAA) y Levantamientos Geodésicos Nacionales (NGS) de los Estados Unidos.





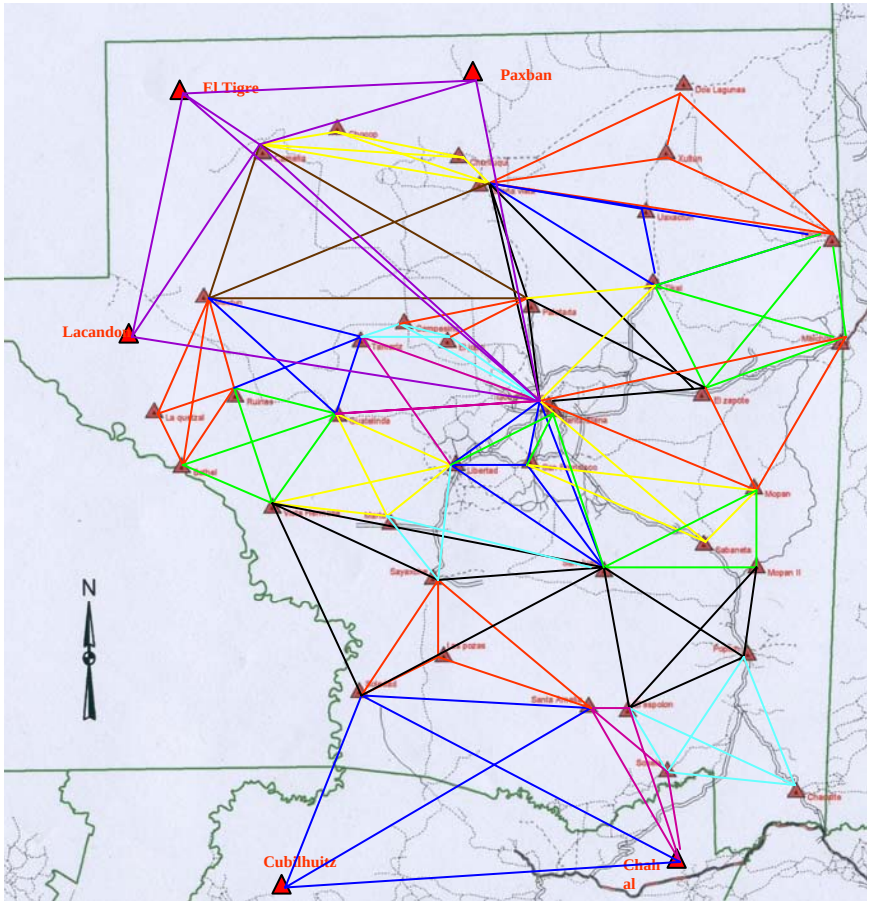
Redes Geodésicas de Guatemala





Red de 160 Estaciones Geodésicas del sistema de coordenadas mundiales WGS-84 Distribuidas en todo el país.

Redes Geodésicas de Guatemala



ACTUALIZACION DE LA RED GEODESICA NACIONAL DEL DEPARTAMENTO DE PETEN 2003-2004

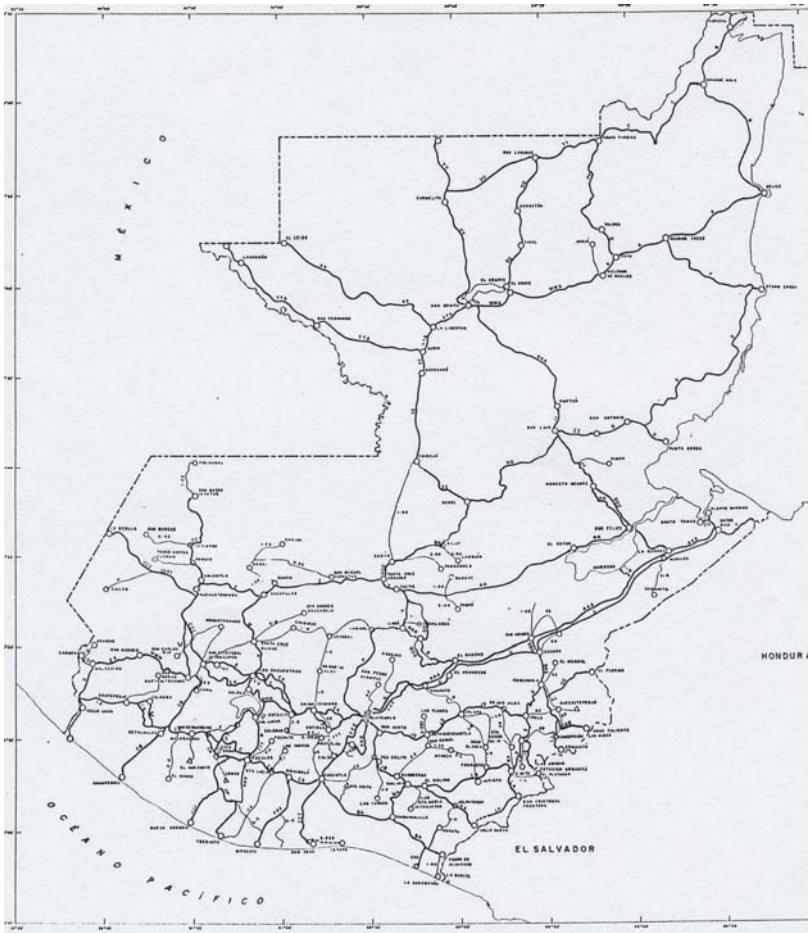
PARA EL CATASTRO

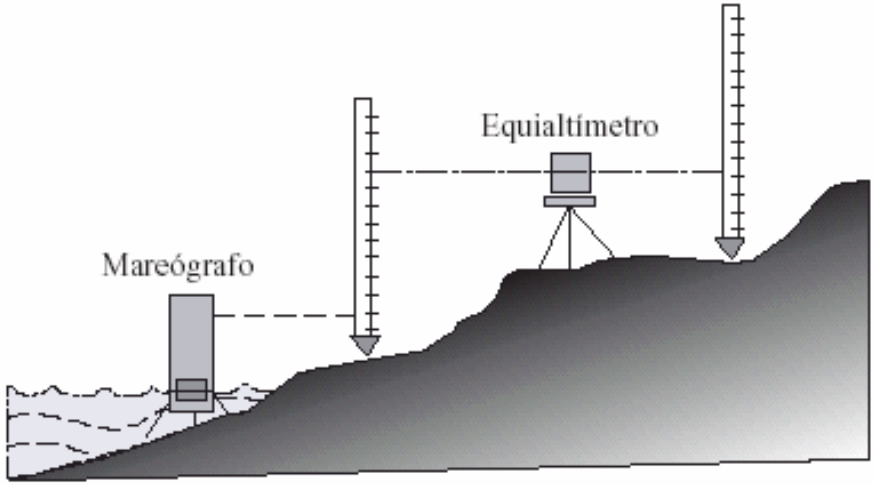
FIJADAS A LAS ESTACIONES CORS DE GUATEMALA

CHEQUEO CON ESTACIONES RED ACTIVA MEXICANA

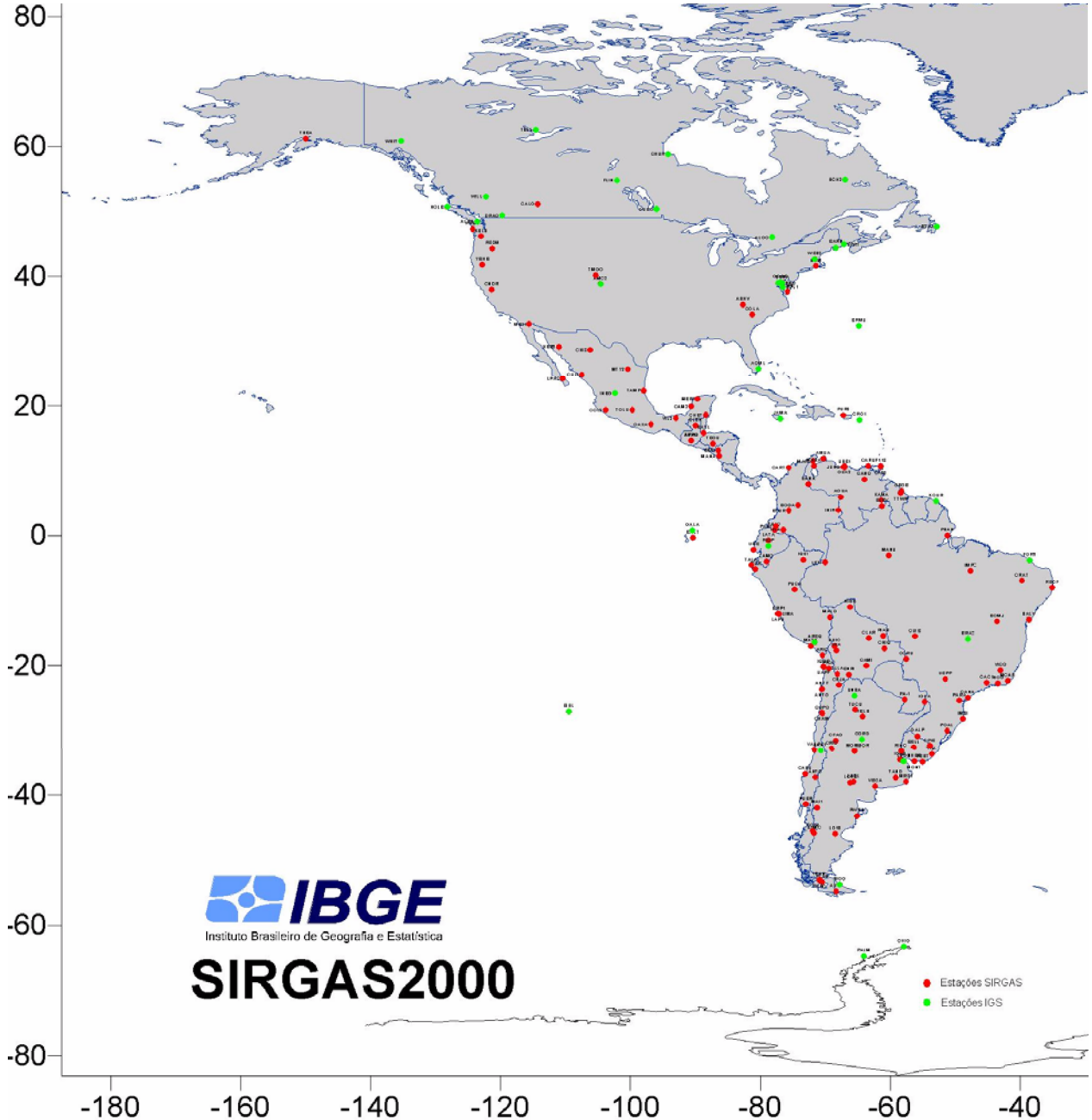
ITRF 94 Epoca 1997.5

Redes Geodésicas de Guatemala

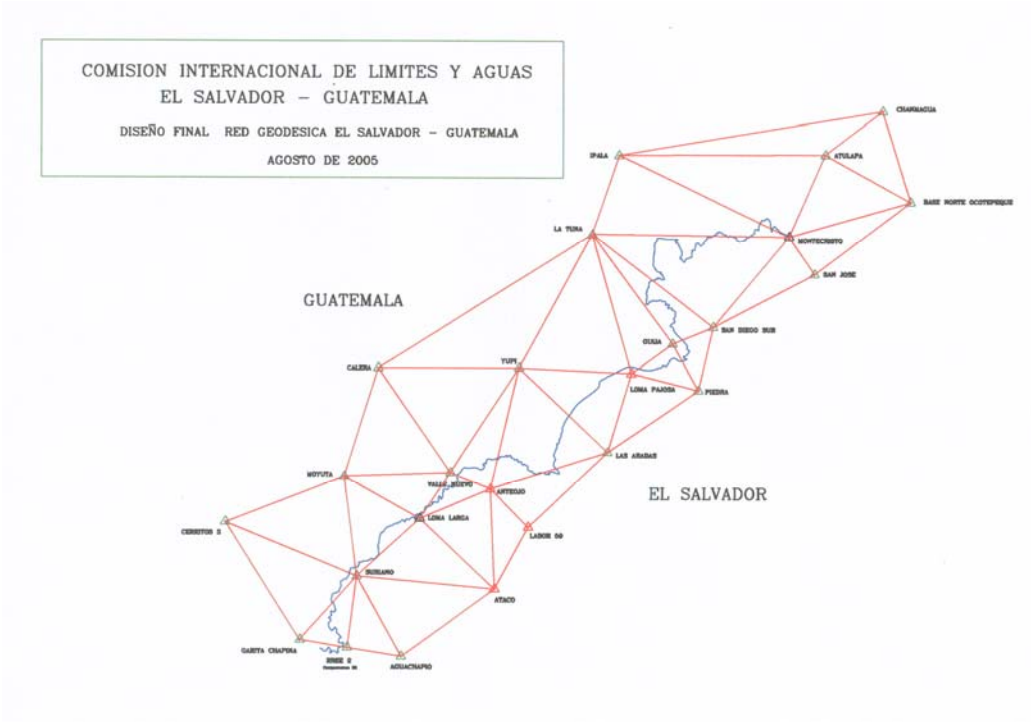




Redes Geodésicas de Guatemala



Red Geodésica WGS84 de apoyo a la frontera entre Guatemala – El Salvador

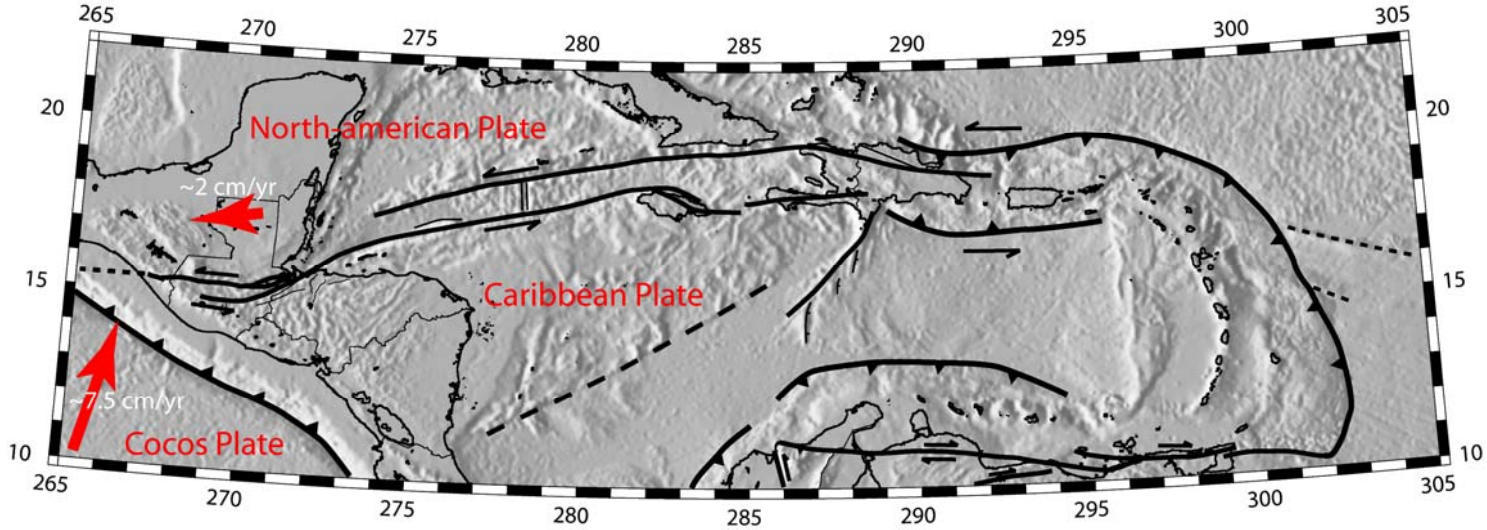


Proyecto de Geotectónica, Levantamiento geodésico con GPS para el Sistema de Falla del Polochic – Motagua

Participants:

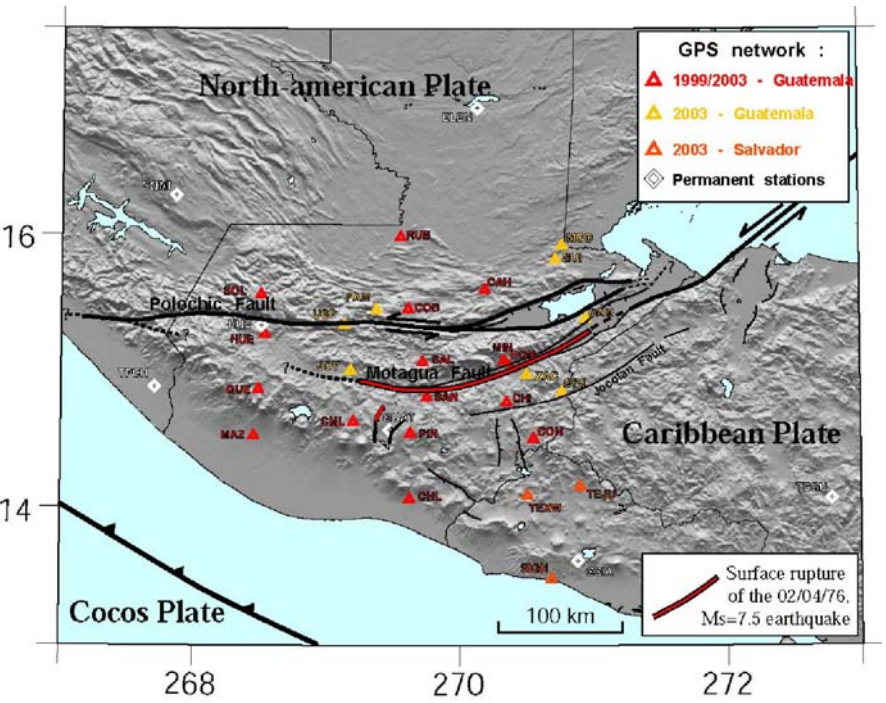
Guatemala: CUNOR, INSIVUMEH, IGN, USAC-CESEM, CONRED, MEM

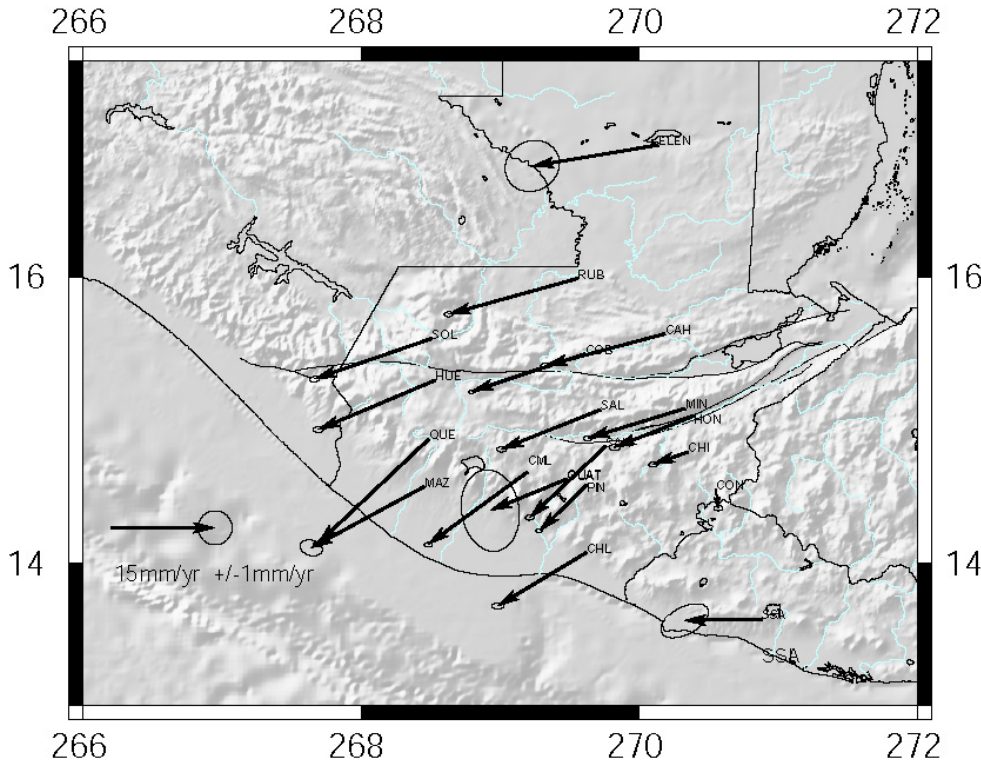
Francia : ENS, University Paris VI , University of Nice



- Nuvel1-A (DeMets, 1990; DeMets et al., 1994) : **11 mm/yr**
- 4 GPS points (DeMets et al. 2001; Dixon et al., 1998) : **18-21 mm/yr**

Redes Geodésicas de Guatemala

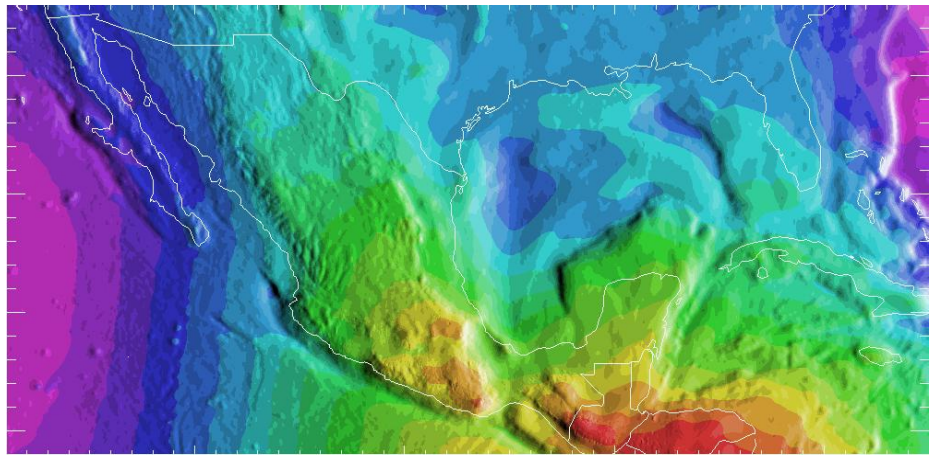




Velocidad relativa NA/CA **~18-20 mm/an** coherente
Dixon et al. (1998) DeMets et al. (2001)

GRAVIMETRIA ABSOLUTA

ESTACIONES DE
GRAVIMETRIA ABSOLUTA



EGM 2000