

MASE: Middle America Subduction Experiment



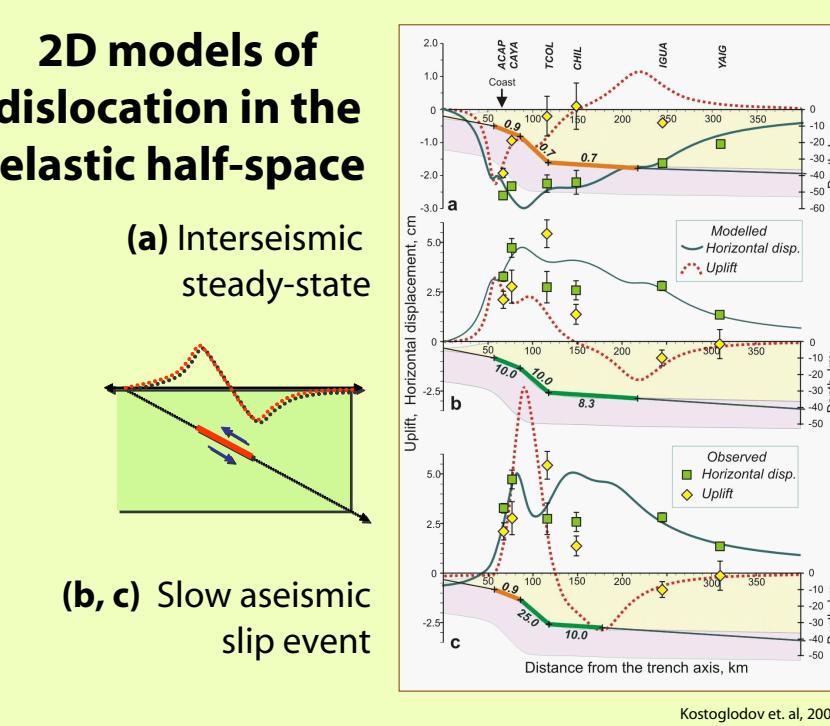
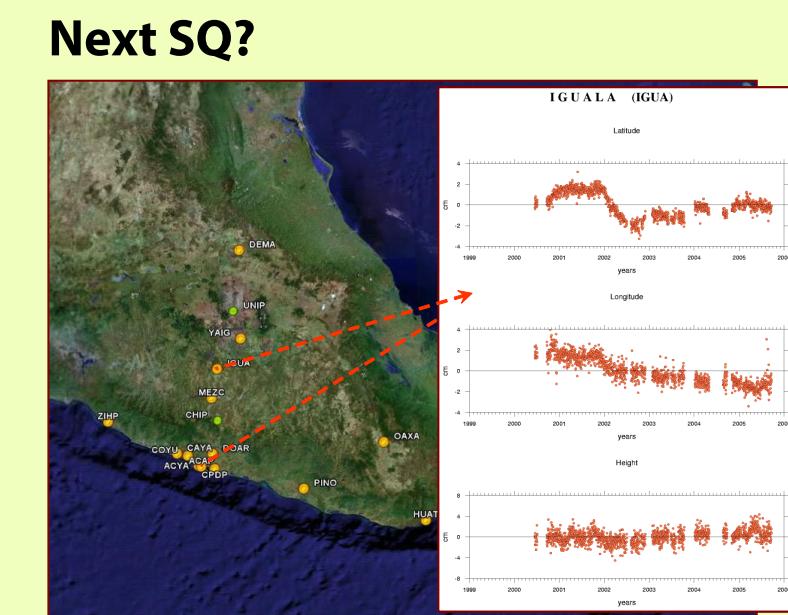
Partners

Tectonics Observatory, Caltech
 Instituto de Geofisica, UNAM
 CENS Project, UCLA
 Centro de Geociencias, Jurquilla, UNAM

Goals

- 1) Understand the subduction process, with the Middle America Trench as a prime example
- 2) Build a geodynamical model of the subduction process

2) GPS



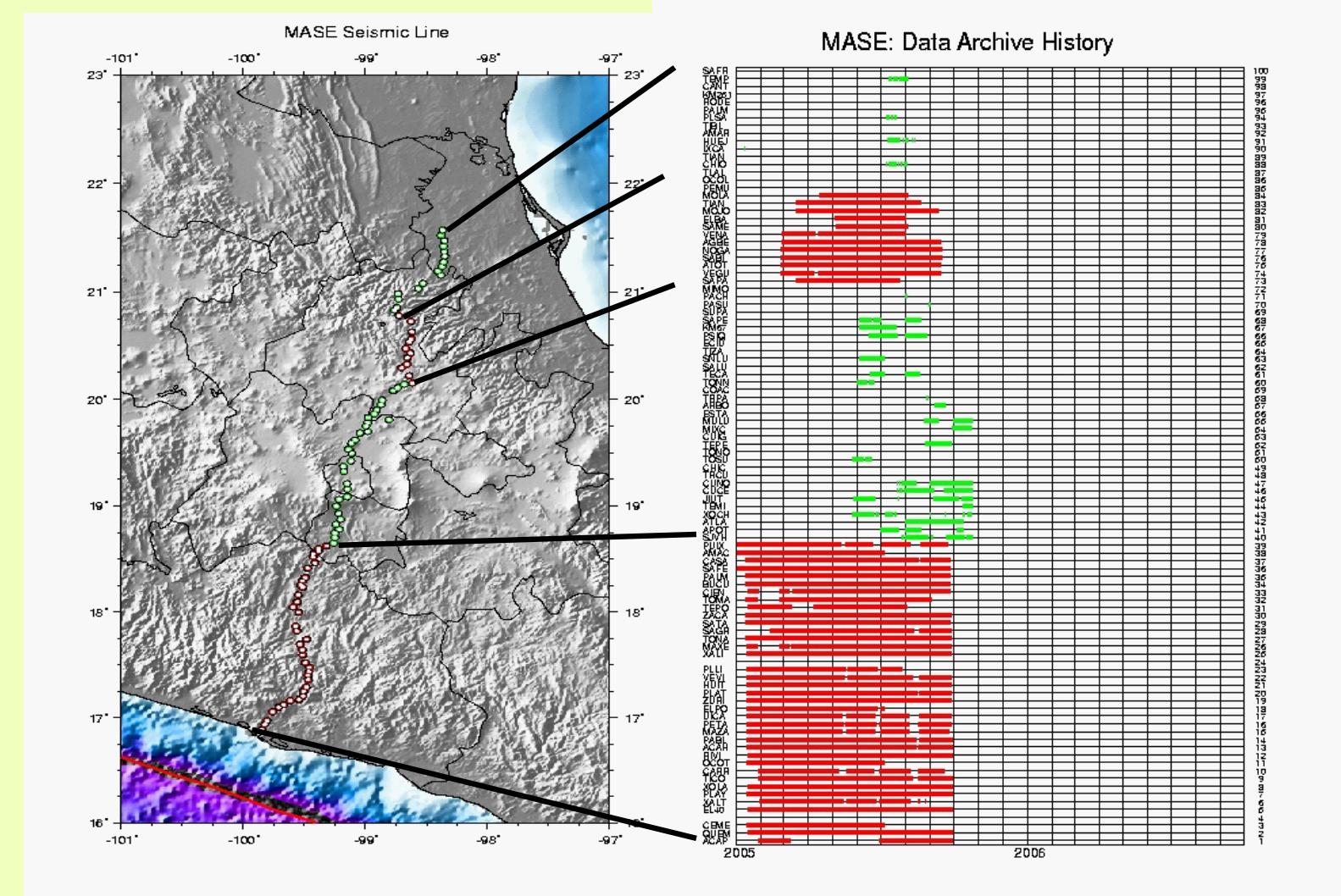
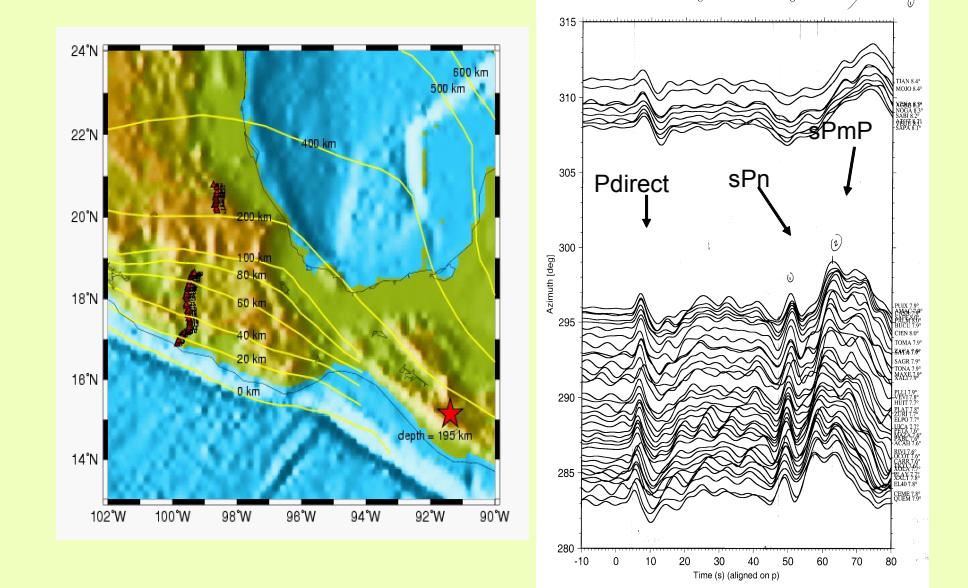
Next SQ?
 Large - small?
 Location?
 Propagation?
 Tremors? LFT location?
 Slip on the seismogenic zone?

1) Seismicity

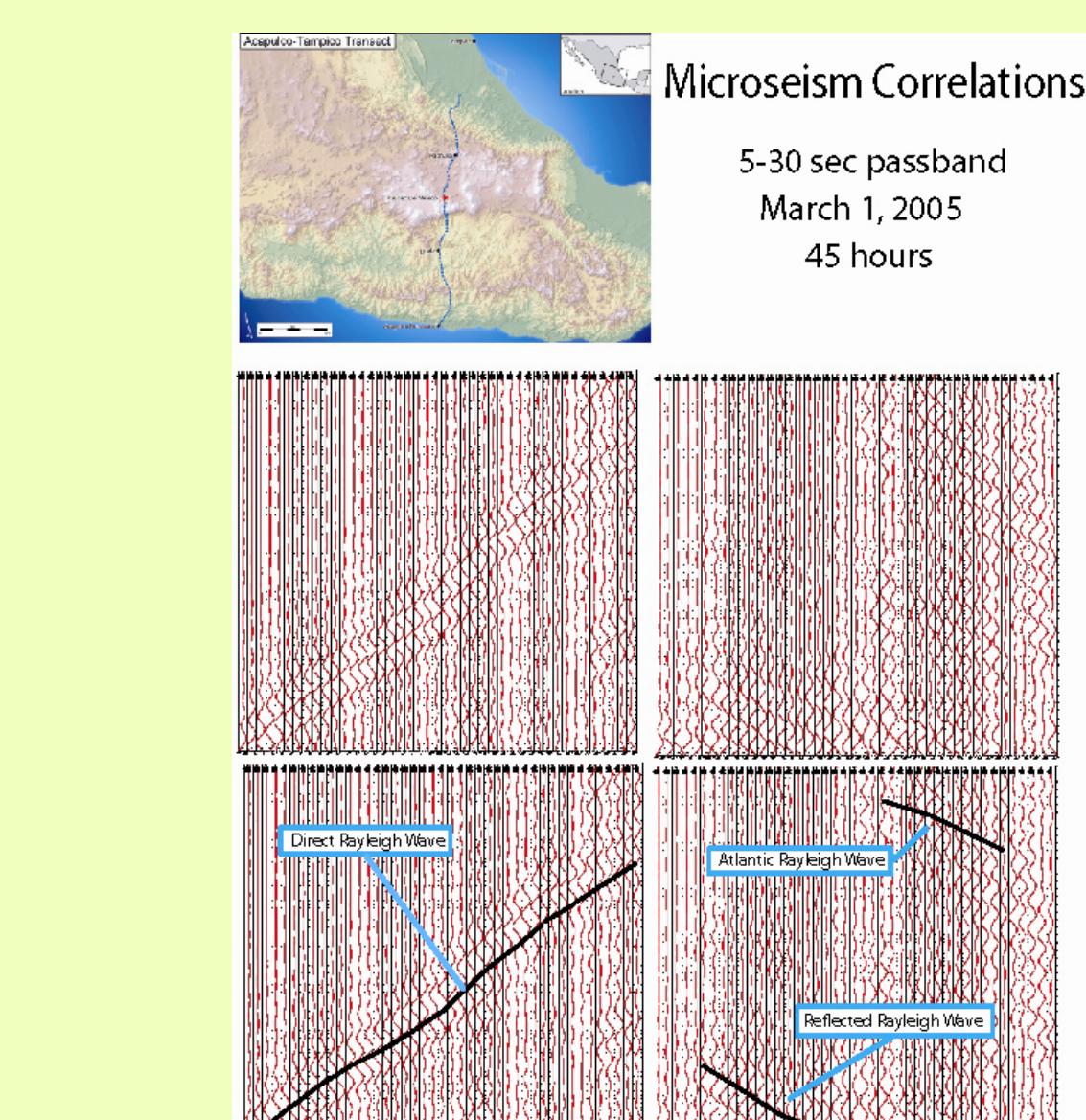
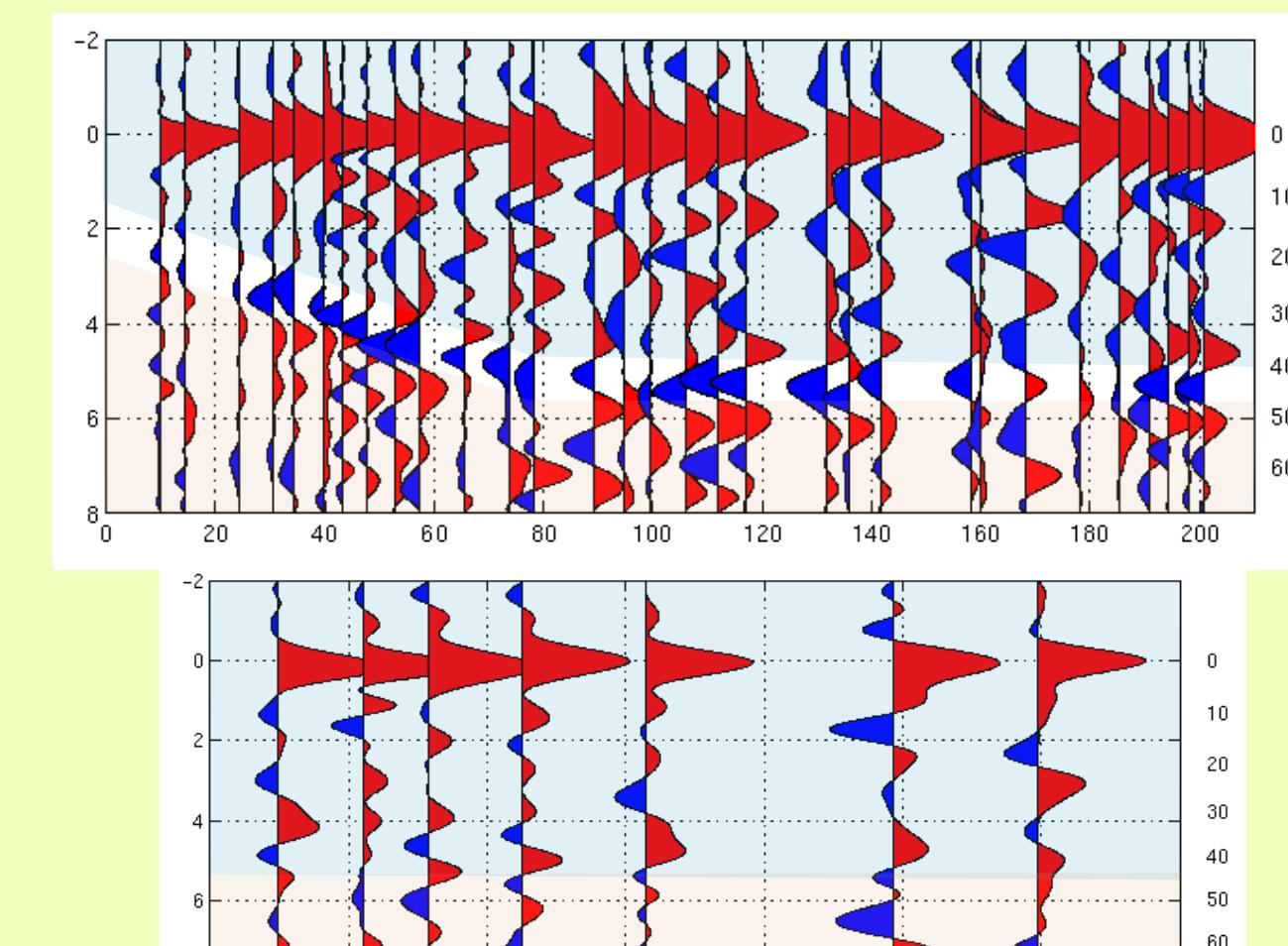
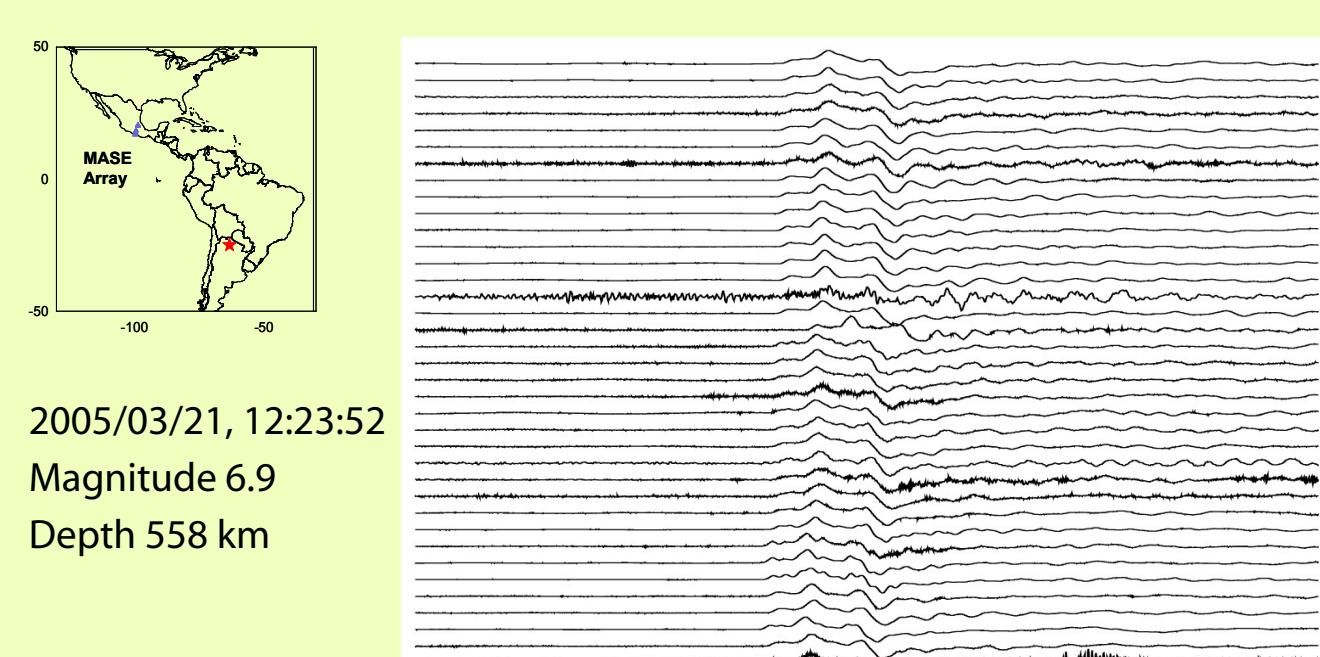
Data Archive

- Data are available on a restricted basis from a central data archive through a network interface. Data are available to all participants at the same time.
- As of Oct 25, 2005, the archive has 11,000 station-days of data.

Crustal Phases

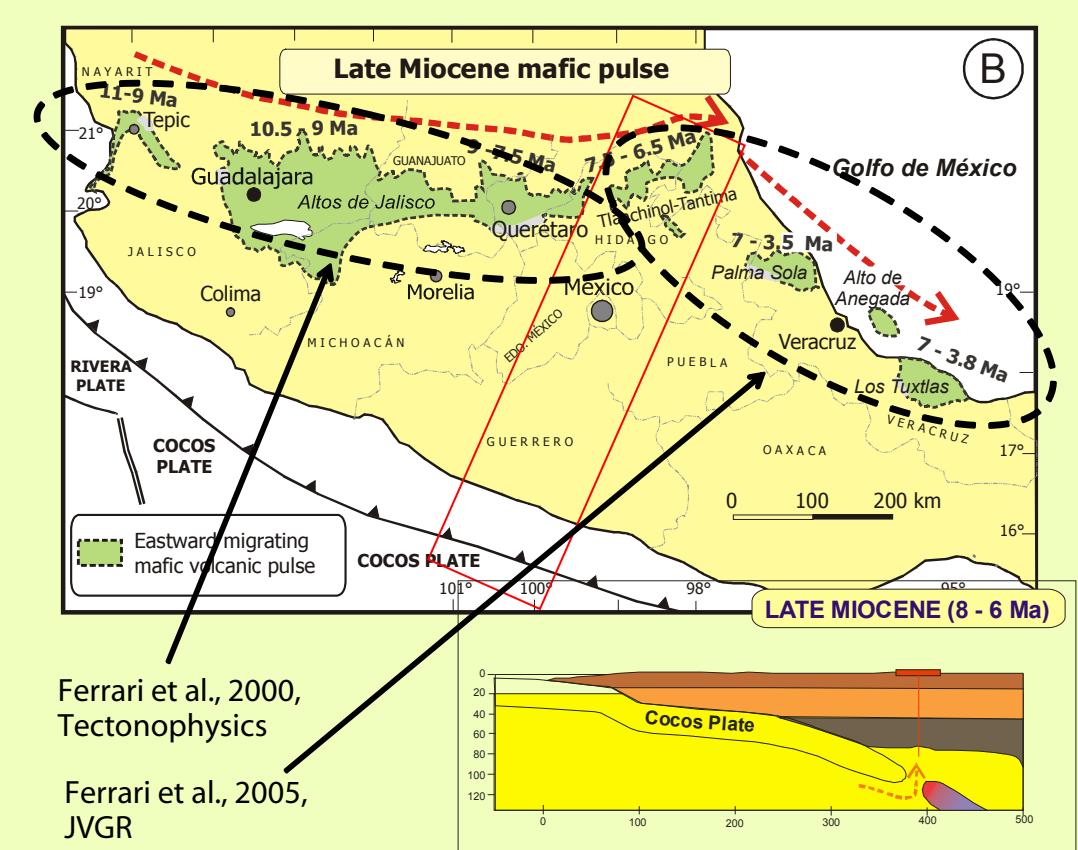
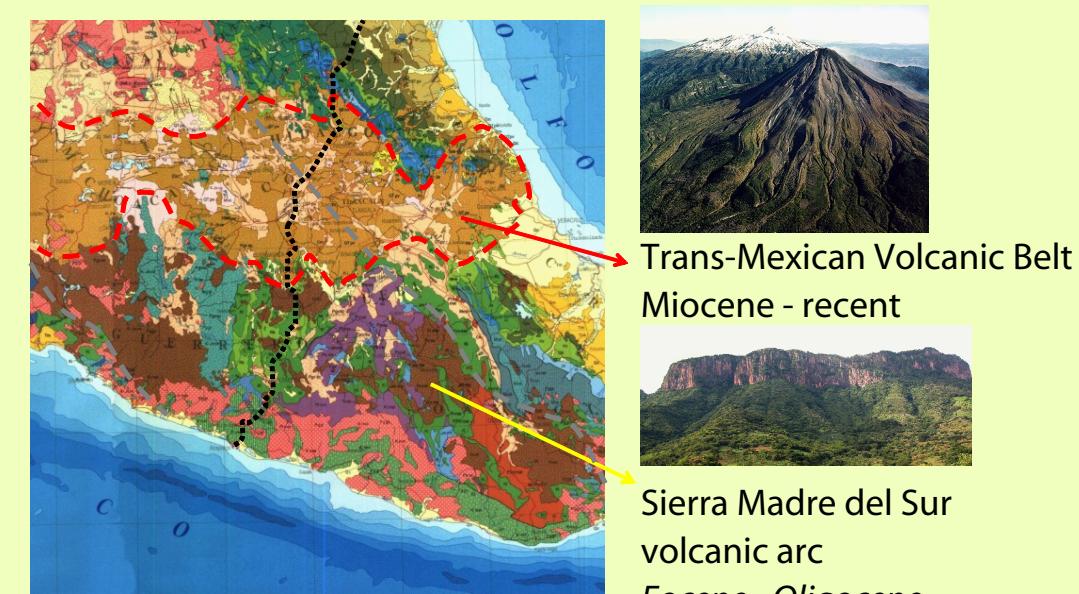


Data Example

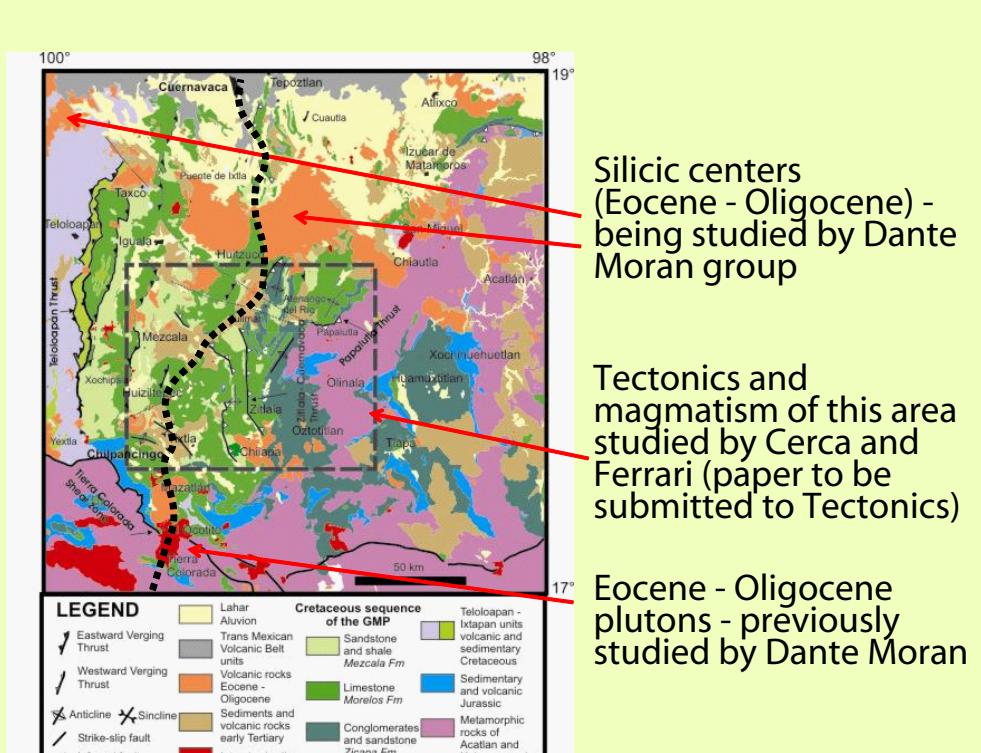


3) Geology & Geochemistry

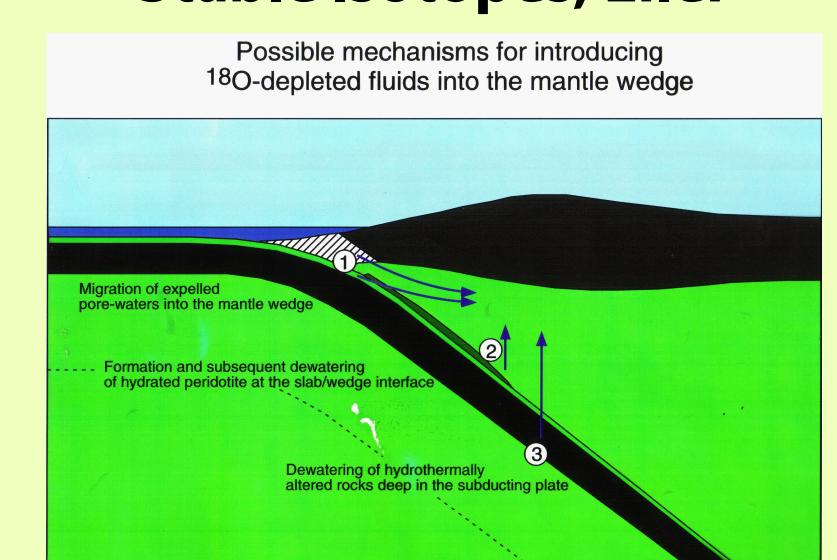
Cenozoic arc volcanism along the MASE transect



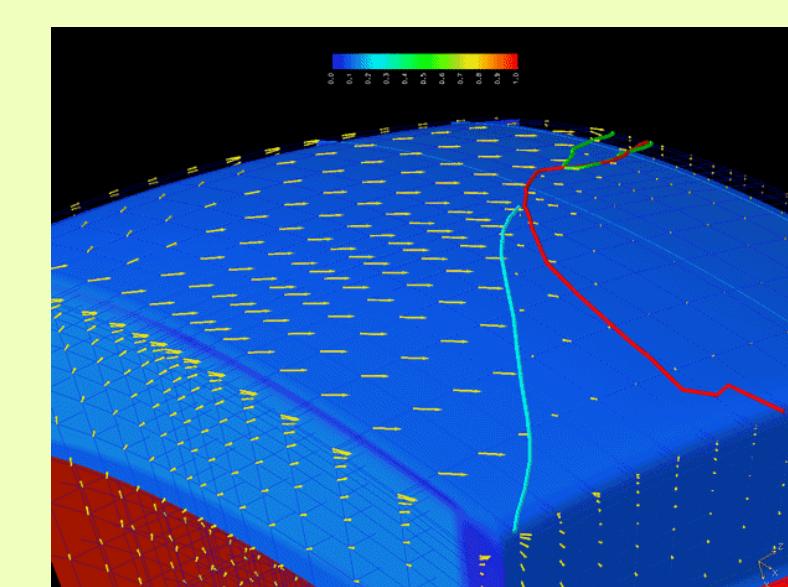
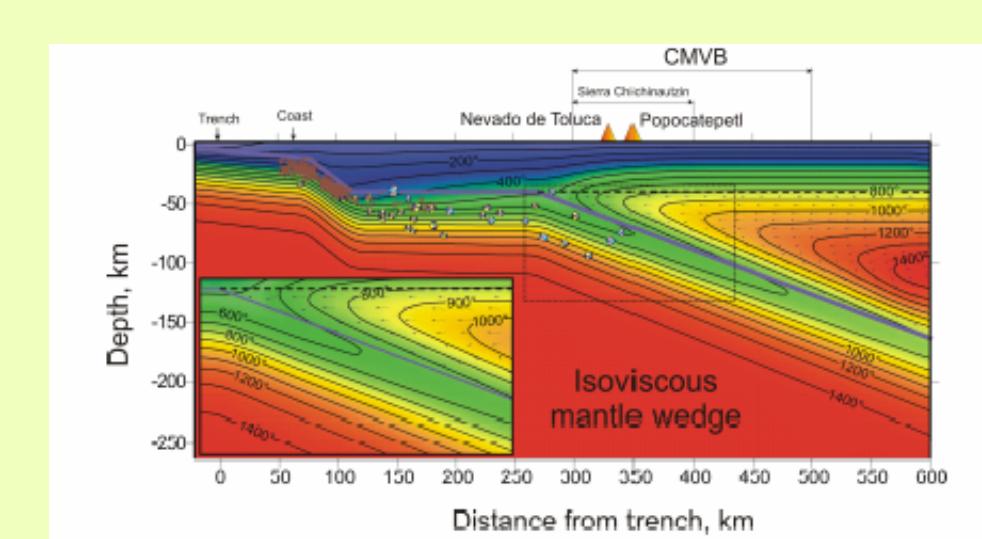
Sierra Madre del Sur volcanic arc



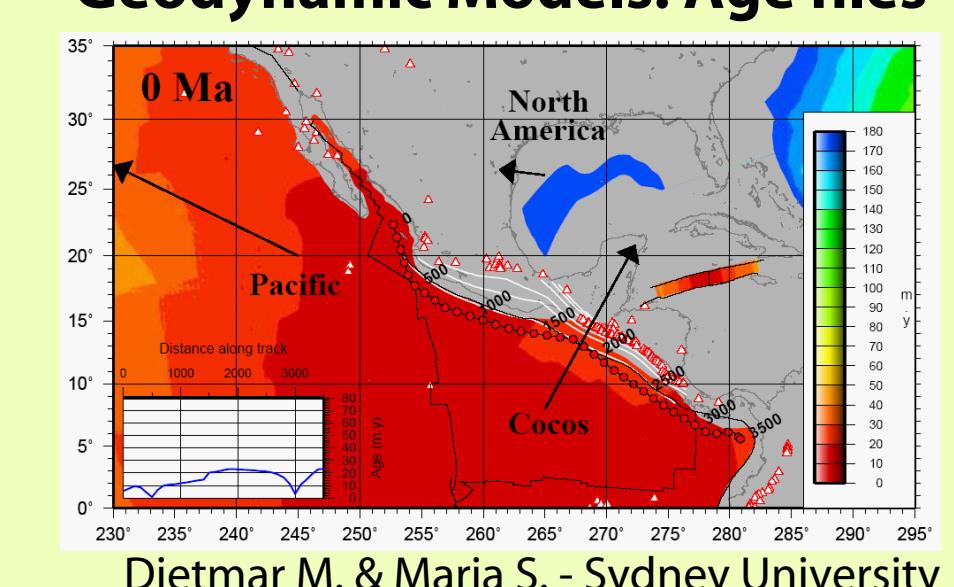
Stable Isotopes, Eiler



4) Geodynamics



Geodynamic Models: Age files



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