

Earth Structure, Chemistry, and Dynamics II

ASU EarthScope Seminar 2010
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February 16, 2010

Moschetti et al. [2007]

- Method: ambient noise tomography (Rayleigh wave group velocities)

➤ Results

- Clear depth dependence in group velocity maps
- Variations correlate well with geologic terrane boundaries

➤ Interpretation

- Minimal; at this stage, mostly focusing on technique development

Yang and Ritzwoller [2008]

- Method: two plane-wave surface wave tomography (Rayleigh wave phase velocities)
- Results
 - TPWT and ANT results at similar periods yield similar results
 - Variations correlate well with geologic terrane boundaries
 - General agreement with shallow mantle body wave imaging results
- Interpretation
 - Minimal; at this stage, mostly focusing on technique development

Further Discussion

➤ Results / Interpretation

- What do these results imply regarding structure of the western United States?
- How does it compare with the body wave results?

Further Discussion

➤ Improvements / Future Work

- Lateral/depth resolution: is it good enough for interpreted structures in each model?
- Were figures good? How could they have improved them?
- General ways to make papers better/more clear?