

# Full waveform inversion of the crust and upper mantle beneath the East Asia Continent and Western Pacific Subduction Zones

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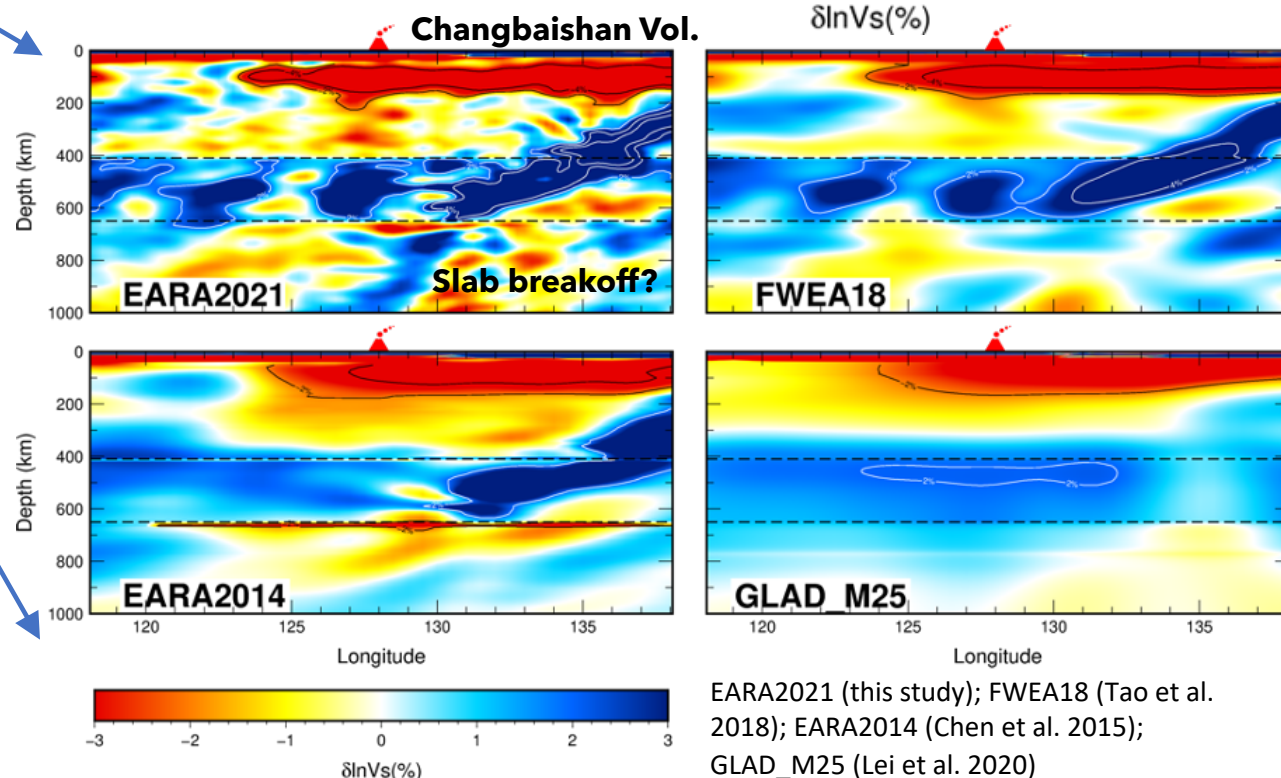
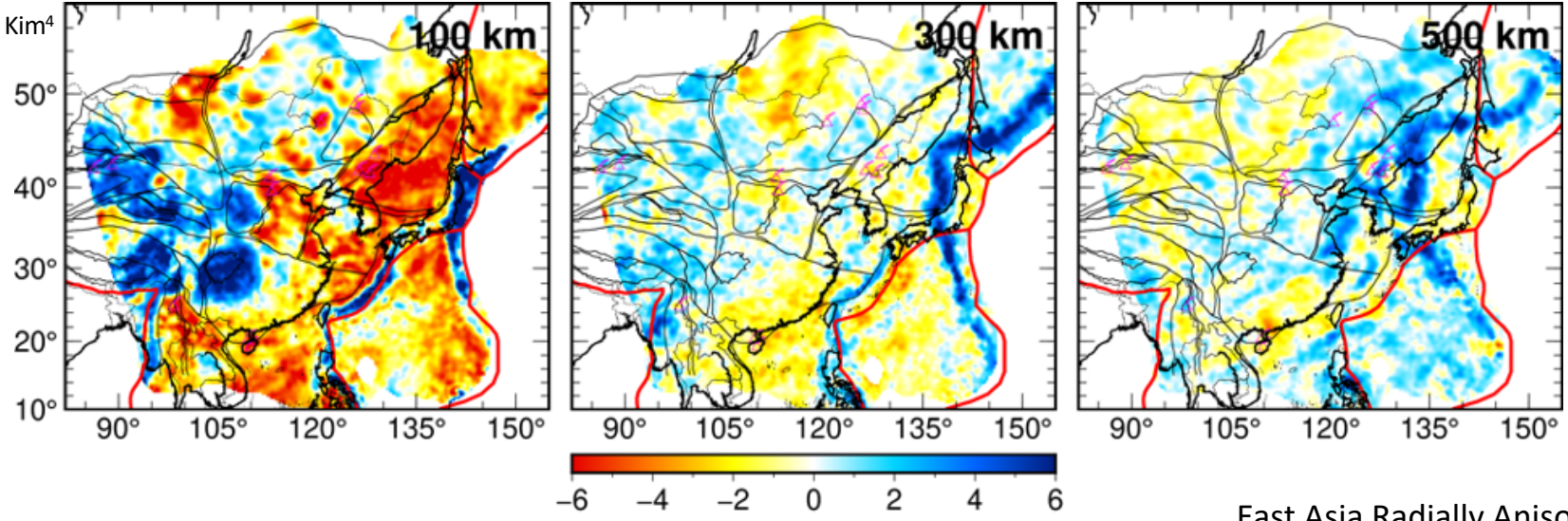
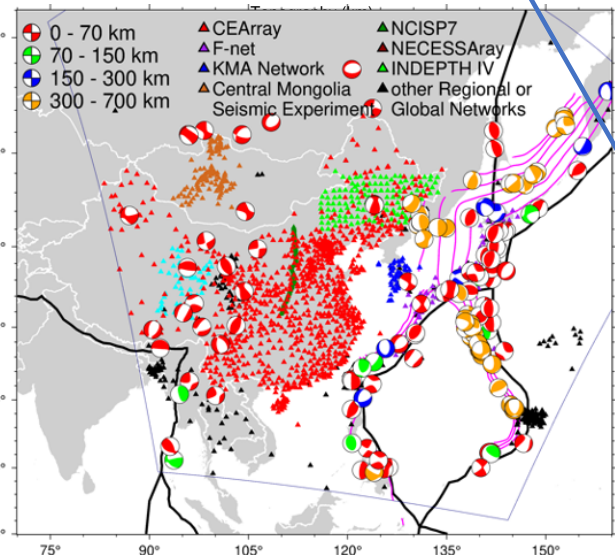
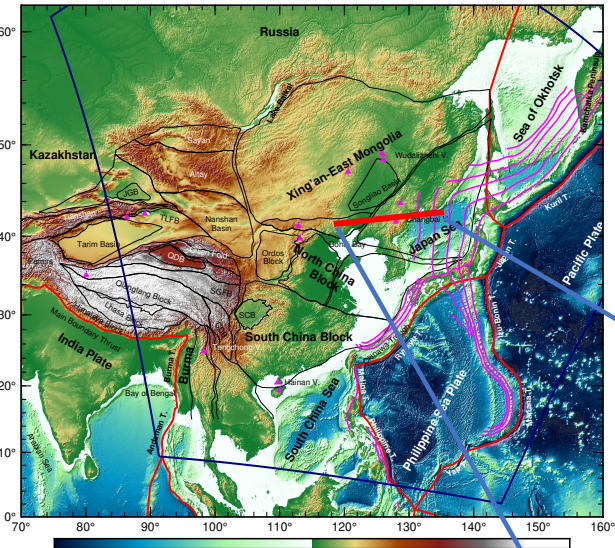
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East Asia Radially Anisotropic Model 2021 (EARA2021)

- ~640k body wave windows, ~150k surface wave windows
- 8-40s for body waves and 30-120s for surface waves
- Full waveform inversion (FWI) based on optimizing the waveform similarity
- Stronger wave speed contrast across slab interfaces and Lithosphere–Asthenosphere Boundary (LAB) compared to previous FWI models

EARA2021 (this study); FWEA18 (Tao et al. 2018); EARA2014 (Chen et al. 2015); GLAD\_M25 (Lei et al. 2020)