

# Explore the Uplifting Mechanism of the Adirondack Mountains



*Marshak et al., 2017*

**Xiaotao**

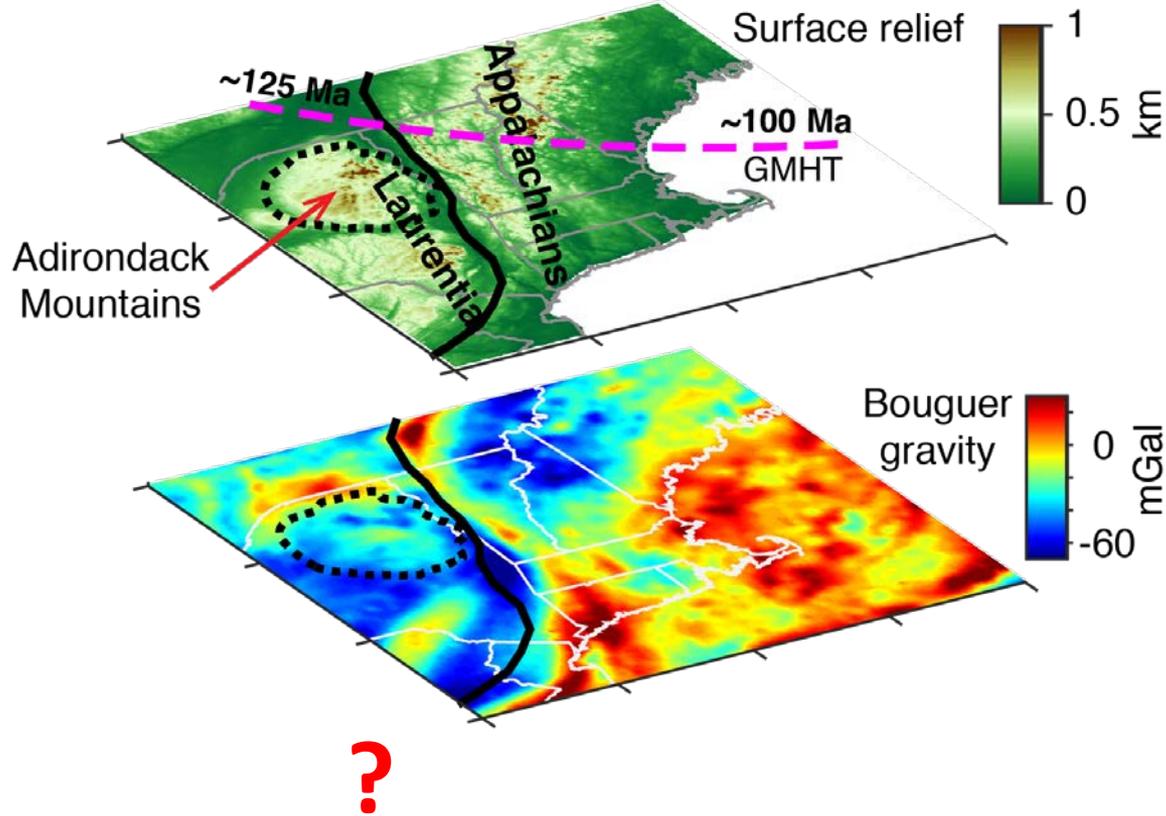
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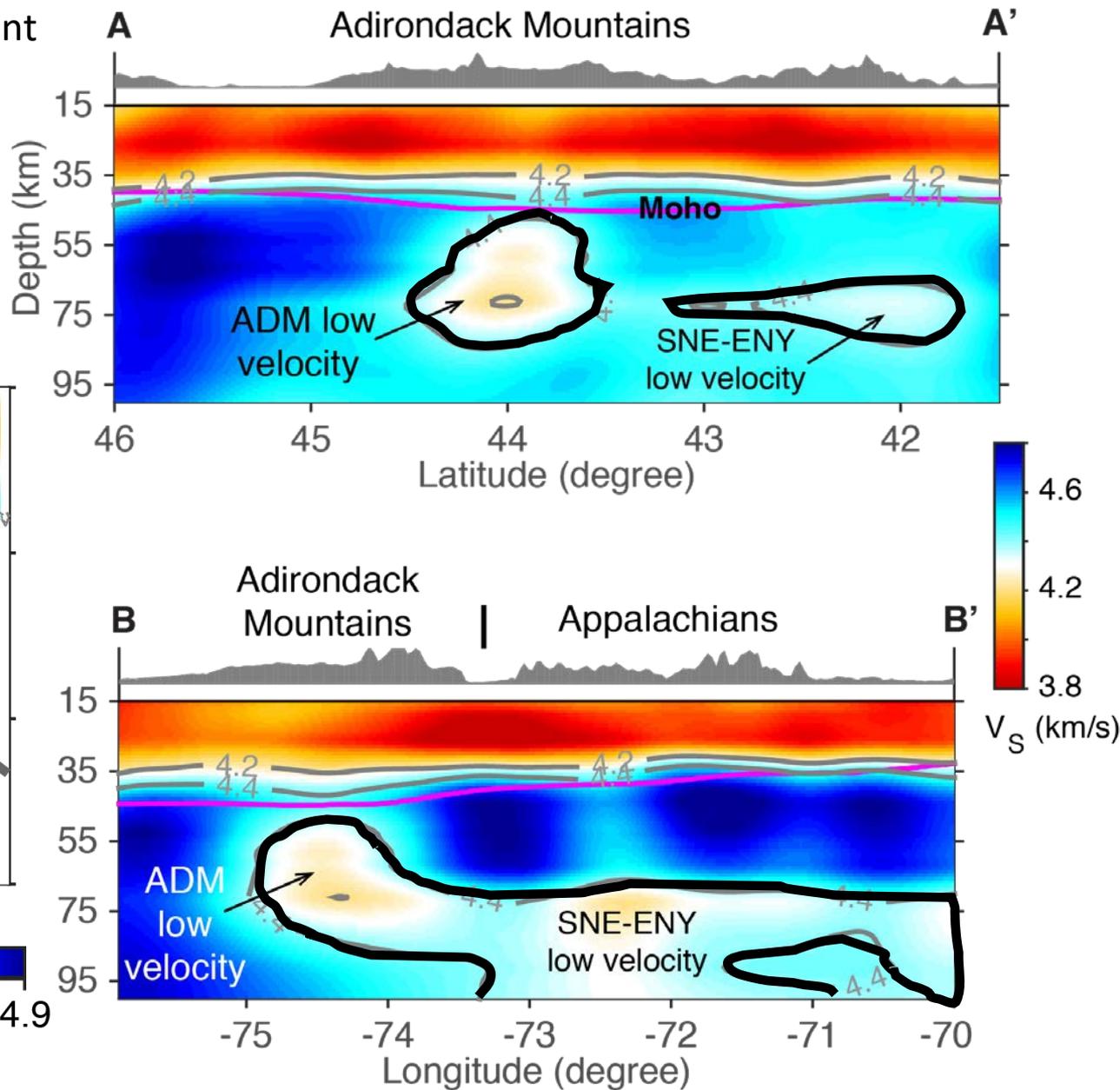
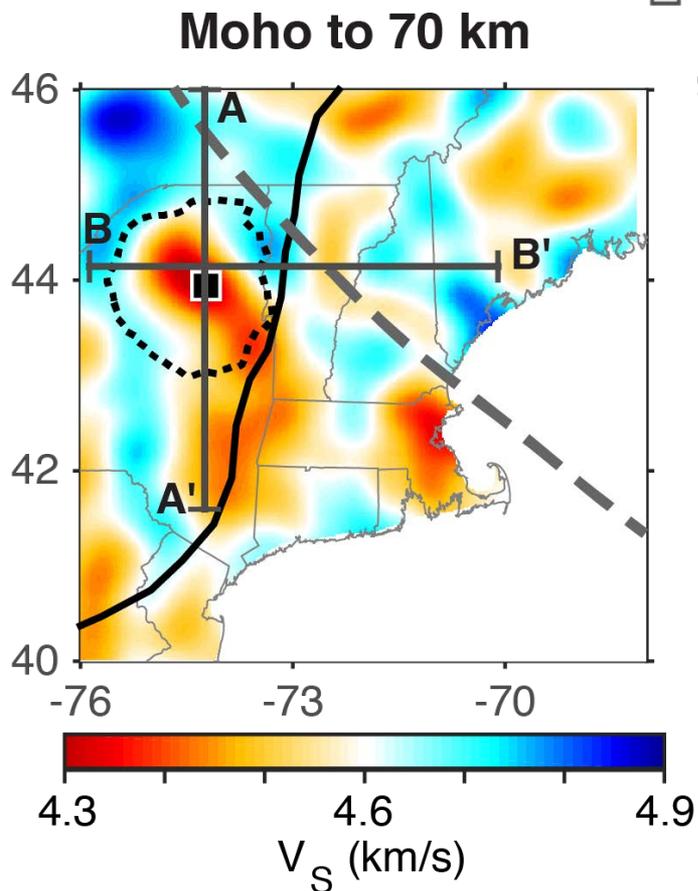


- What forces?
- What is the role of mantle dynamics?



# Shear Velocity

from Full-Wave Seismic Ambient  
Noise Tomography

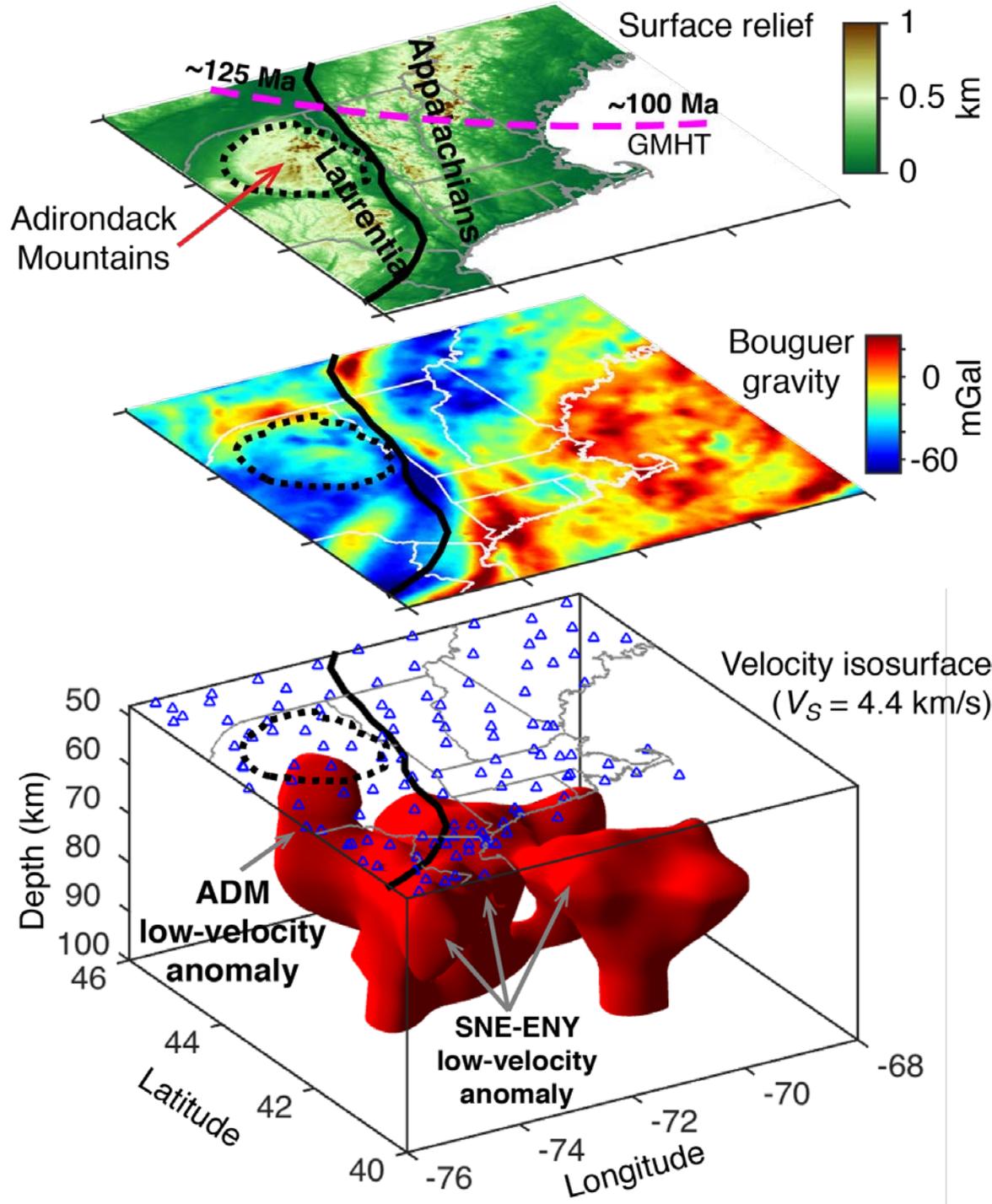


- Forces

- Buoyancy
- Deglaciation rebound
- Thermal expansion

- The role of mantle dynamics

- Asthenosphere upwelling
- Edge-driven convections
- Great Meteor Hotspot



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Monday Morning