Explore the Uplifting Mechanism of the Adirondack Mountains

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What forces?
What is the role of mantle dynamics?
Shear Velocity
from Full-Wave Seismic Ambient Noise Tomography

Moho to 70 km

Adirondack Mountains

Latitude (degree)

Longitude (degree)

$V_S$ (km/s)

Adirondack Mountains

Appalachians

ADM low velocity

SNE-ENY low velocity
• Forces
  o Buoyancy
  o Deglaciation rebound
  o Thermal expansion

• The role of mantle dynamics
  o Asthenosphere upwelling
  o Edge-driven convections
  o Great Meteor Hotspot

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