

# Dynamic Earth (animation)

Earth's surface elevation and mantle density animated through space and time. The Cenozoic (66 - 0 Ma) paleogeography and paleo mantle density anomalies are from Straume et al. (2024). The present day topography is from <https://www.gebco.net>, while the mantle density anomalies are converted from relative seismic shear wave velocities (SMEAN2; Jackson et al., 2017). The Scientific colour maps 'oleron' and 'vik' are used to represent data accurately and to all readers.

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- This version: 20.02.2024
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- Specific citation: *These animations by Eivind Straume based on Straume et al. (2024) are available via the open-access s-ink.org repository.*
- Related reference: Straume, E. O., Steinberger, B., Becker, T. W., & Faccenna, C. (2024). Impact of mantle convection and dynamic topography on the Cenozoic paleogeography of Central Eurasia and the West Siberian Seaway. *Earth and Planetary Science Letters*, 630, 118615. <https://doi.org/10.1016/j.epsl.2024.118615>

➡ **Latest version**

