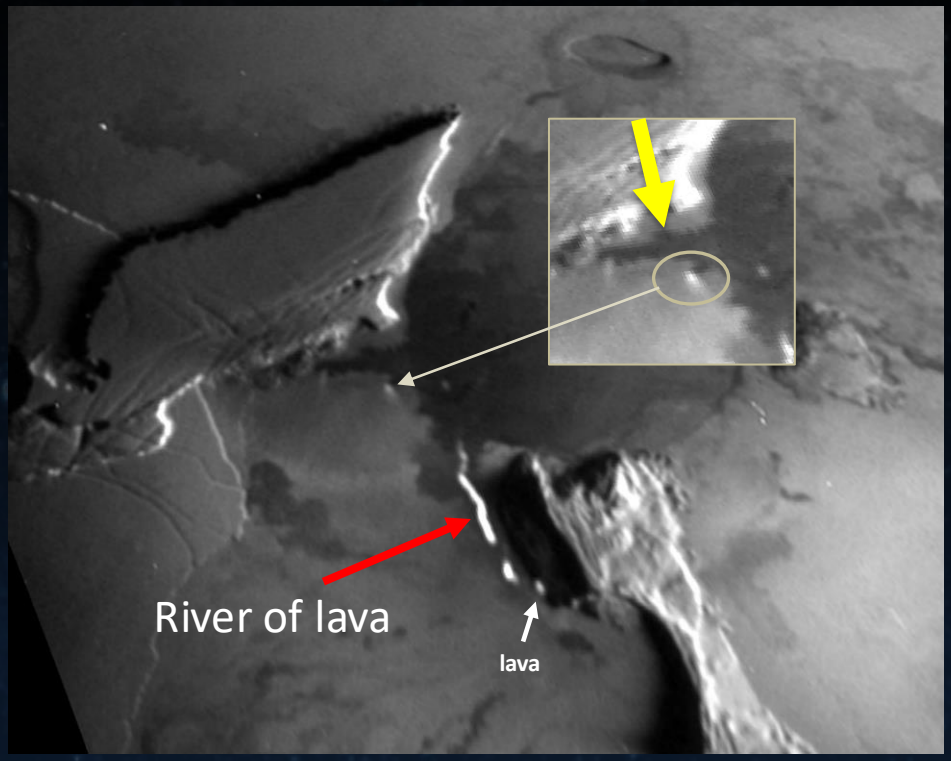
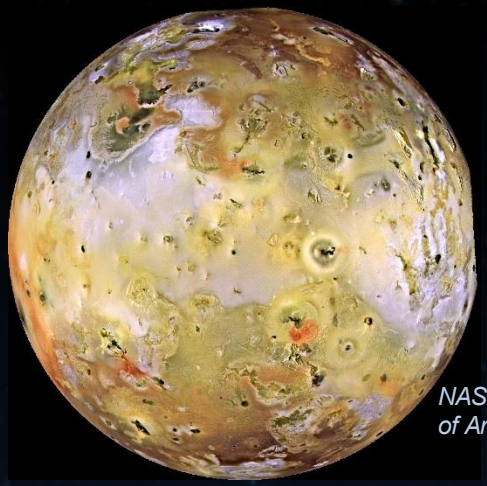
A River of Lava and Volcanic Fireworks on Io



Juno reveals an active lava river (red arrow) and a jet of volcanic gas (circled in inset) blasting forward from a new lava flow (yellow arrow). Lava seeps from a mountain base (white arrow).



NASA/JPL/University of Arizona

- Juno's star tracker imaged Io's dark side illuminated by Jupiter-shine
- The image reveals the first active lava channel ever observed on Io
- The inset shows volcanic fireworks from an active jet of volcanic gas blasting forward from a fresh lava flow
- Lava seeping from the base of a mountain shows links between volcano and mountain formation

S. Zal Mons

(Becker et al., JGR: Planets, 2025. https://doi.org/10.1029/2024JE008744)