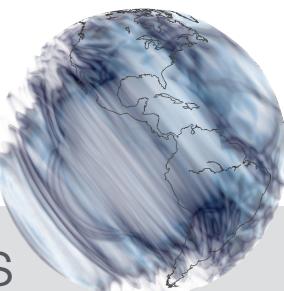
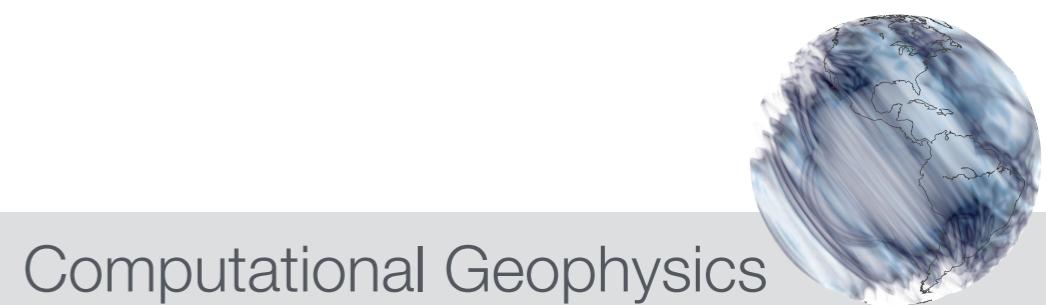


Shallow-water equation

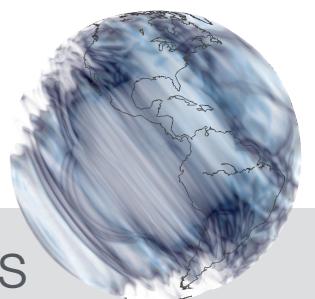


Tsunami





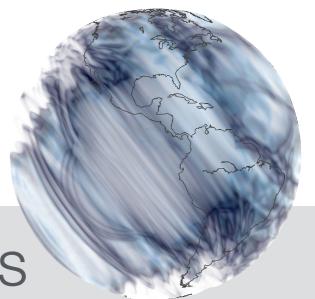
Storm Surge





Dam break

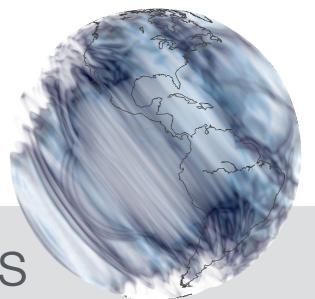
Computational Geophysics





Atmospheric flow

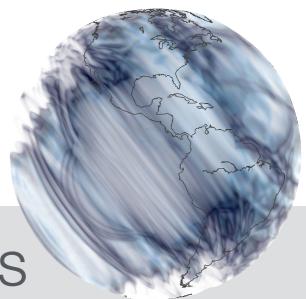
Computational Geophysics



A detailed image of the planet Jupiter's atmosphere, showing its iconic horizontal cloud bands and prominent Great Red Spot. The colors range from deep orange and yellow to white and grey, with darker regions indicating deeper cloud layers.

Planetary flows

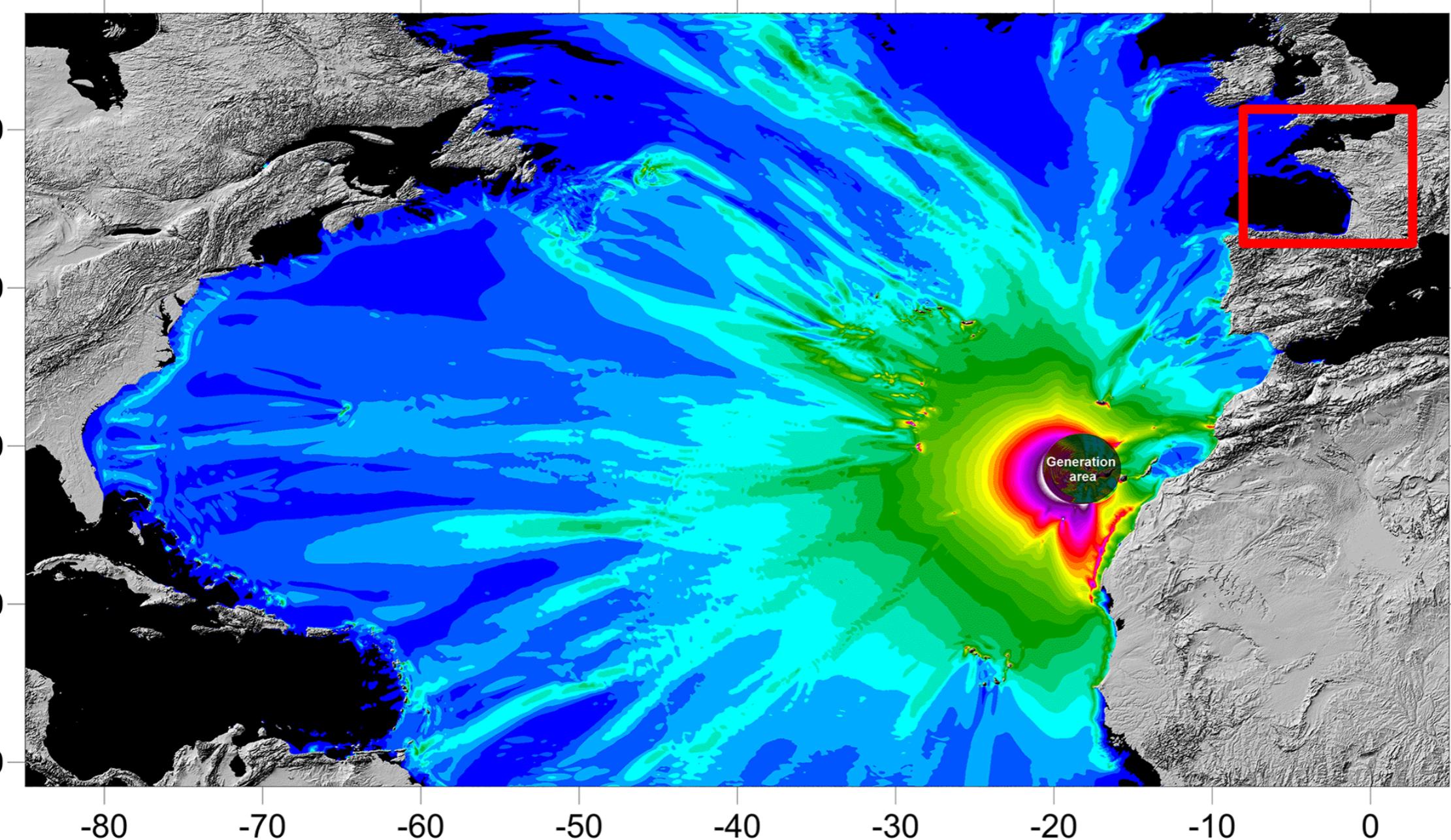
Computational Geophysics



Lava flow



At the North-Atlantic scale



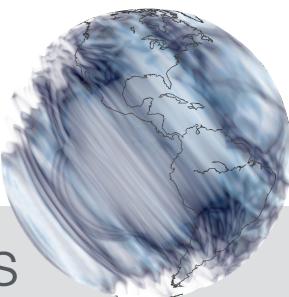
Maximal simulated sea surface elevation (m)



0 1 2 3 4 5 6 7 8 9 10

Abadie et al. (2019)

Landslide
tsunami



Shallow-water equation

$$\partial_t^2 P = \nabla \cdot (v^2 \nabla P)$$

