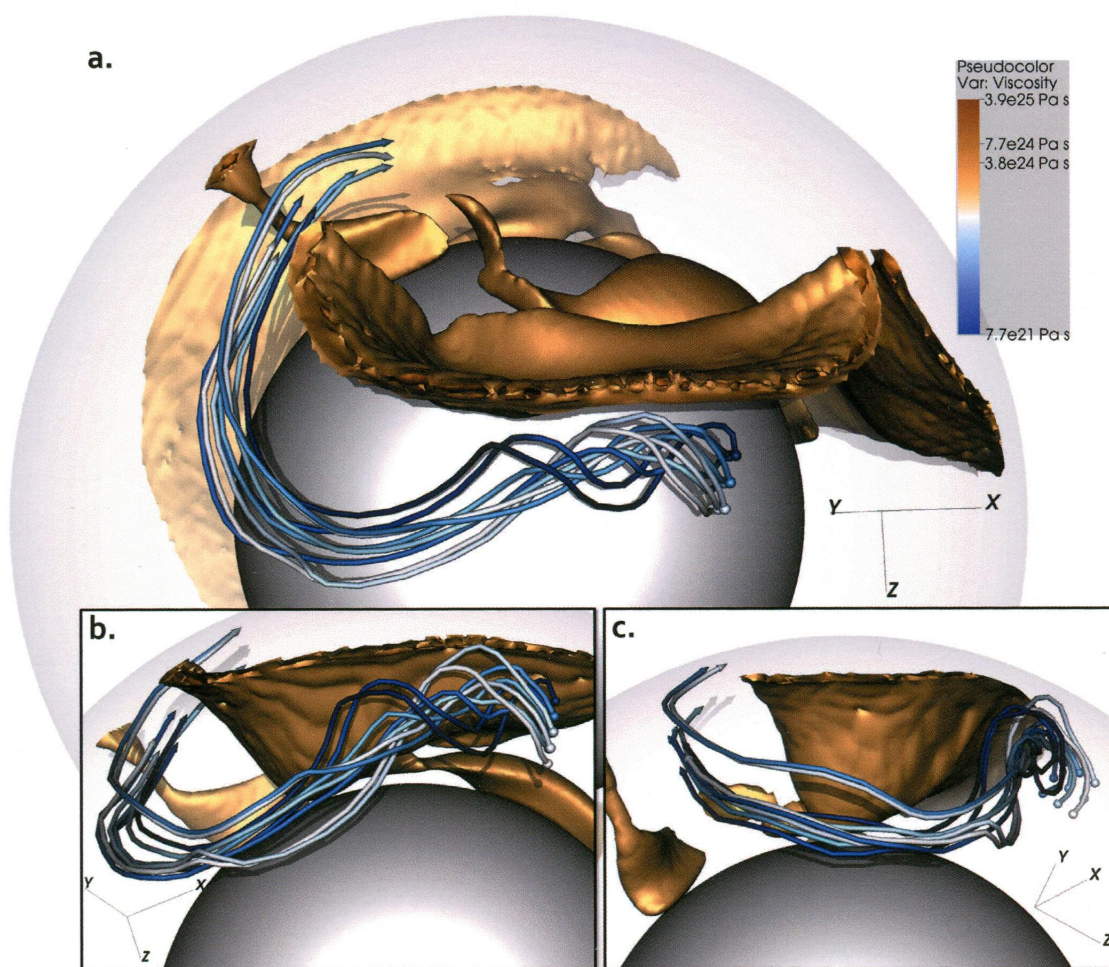


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Cover. Spiral mantle flow in the back-slab region shown in a global spherical 3-D model in (a) global top view, (b) horizontal view toward the back of the slab, and (c) side view. Viscosity isosurfaces show slabs (brown) sinking toward the CMB (core mantle boundary; grey), whereby the surface plates are visually cut away. Color map values are nondimensional. Retreating slabs cause a spiral mantle flow at their backside, which ends up in a toroidal flow around the slab edges. Separate bluish-colored tubes indicate instantaneous flow lines starting from several differently located seeding points (bluish-colored spheres). See *Crameri and Tackley*, pp. 5921–5942, doi: 10.1002/2014JB010939.