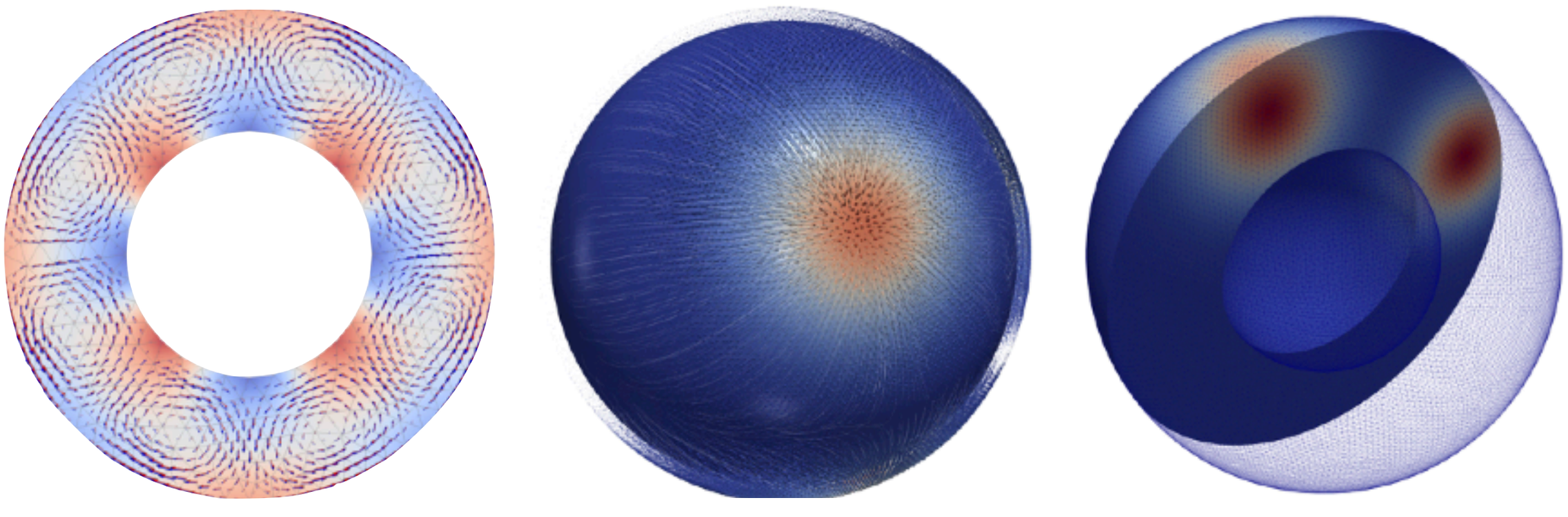
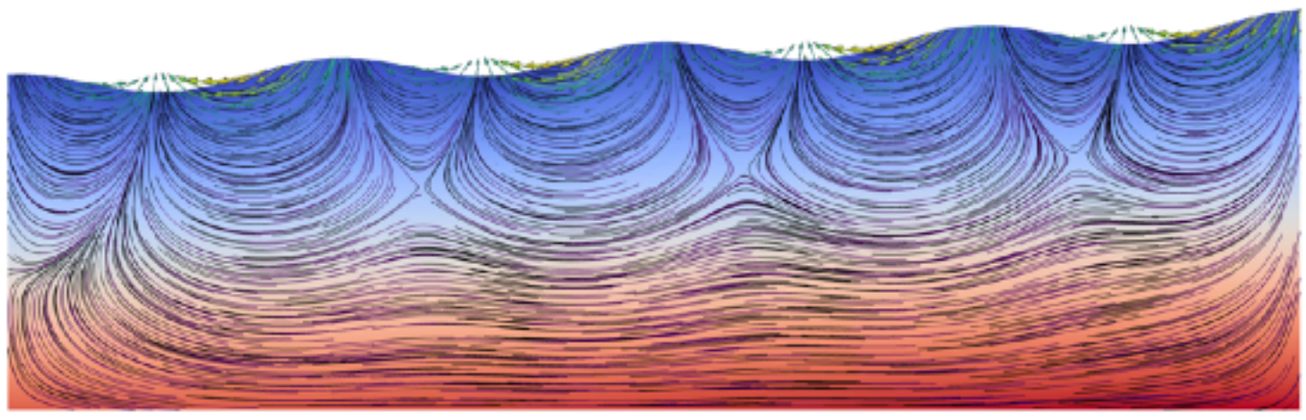


`stokes.strainrate`

$$\begin{bmatrix} U_{0,0}(\mathbf{r}) & \frac{U_{1,0}(\mathbf{r})}{2} + \frac{U_{0,1}(\mathbf{r})}{2r} - \frac{U_1(\mathbf{r})}{2r} \\ \frac{U_{1,0}(\mathbf{r})}{2} + \frac{U_{0,1}(\mathbf{r})}{2r} - \frac{U_1(\mathbf{r})}{2r} & \frac{U_0(\mathbf{r})}{r} + \frac{U_{1,1}(\mathbf{r})}{r} \end{bmatrix}$$

`stokes.stress`

$$\begin{bmatrix} -P(\mathbf{r}) + 2U_{0,0}(\mathbf{r}) & U_{1,0}(\mathbf{r}) + \frac{U_{0,1}(\mathbf{r})}{r} - \frac{U_1(\mathbf{r})}{r} \\ U_{1,0}(\mathbf{r}) + \frac{U_{0,1}(\mathbf{r})}{r} - \frac{U_1(\mathbf{r})}{r} & -P(\mathbf{r}) + \frac{2U_0(\mathbf{r})}{r} + \frac{2U_{1,1}(\mathbf{r})}{r} \end{bmatrix}$$



Underworld Geodynamics Software Framework

User Manual (stable)

User Manual (development)

API documentation (stable)

API documentation (development)

Underworld Blog