

Yelmo state variables

Topography

- Ice thickness
- Calving
- Surface elevation
- Masks

Material

- 3D strain rate
- 3D enhancement factor
- 3D viscosity
- 3D rate factor

Boundary conditions

- Bedrock elevation
- Sea level
- Sediment thickness
- Surface mass balance
- Surface ice temperature
- Basal mass balance (marine)
- Basal ice-shelf temperature
- Geothermal heat flux

Dynamics

- 3D velocity
- 2D depth-averaged velocity
- 2D effective viscosity
- Basal and driving stresses

Thermodynamics

- 3D ice temperature
- Basal mass balance (grounded ice)
- Basal water-layer thickness