

Initial conditions and basal topography

**Mandatory**

Surface mass  
balance (SMB)

Ice thickness ( $h$ )  
 $\frac{\partial h}{\partial t} + \nabla \cdot (\bar{\mathbf{u}}h) = \text{SMB}$

Ice flow  $\bar{\mathbf{u}} = (\bar{u}, \bar{v})$

**Optional**

Climate

Output  
Netcdf files

Particle  
tracking

