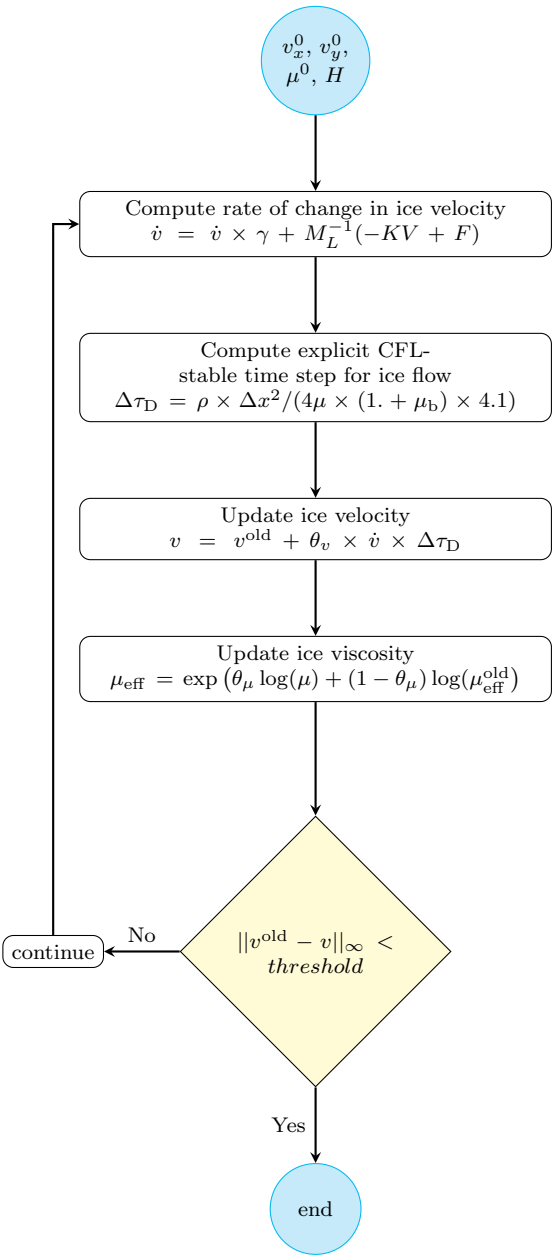
v_x^0, v_y^0, μ^0, H
Compute rate of change in ice velocity
$\dot{v} = \dot{v} \times \gamma + M_L^{-1}(-KV + F)$
Compute explicit CFL-stable time step for ice flow
$\Delta\tau_{\mathrm{D}} = \rho \times \Delta x^2/(4\mu \times (1. + \mu_{\mathrm{b}}) \times 4.1)$
Update ice velocity
$v = v^{\mathrm{old}} + \theta_v \times \dot{v} \times \Delta\tau_{\mathrm{D}}$
Update ice viscosity
$\mu_{\mathrm{eff}} = \exp\left(\theta_\mu \log(\mu) + (1 - \theta_\mu)\log(\mu_{\mathrm{eff}}^{\mathrm{old}})\right)$
$||v^{\mathrm{old}} - v||_\infty < threshold$
No
continue
Yes
end