

Step	Input	Output
Relaxation 1	GIMP extended to 1849 terminus position, ice viscosity (initial guess), basal friction (initial guess)	Reconstructed 1849 ice thickness and velocity
Thermal Inversion	Ice thickness and velocity from relaxation 1 Surface velocity from relaxation 1, ice viscosity from thermal	Improved ice viscosity Inverted basal friction
Relaxation 2	Ice thickness from relaxation 1, ice viscosity from thermal, basal friction from inversion	Steady state ice thickness and velocity