Start.

- Choose deformation-sliding factor
 - ⊙ Impose 1961–1990 mean SMB

Slacier evolution to steady state

Modify climatic conditions: perturbation on the 1961-1990 mean SMB

Steadystate glacier (1990)

Transient climate (from E-OBS)

Modelled glacier at inventory date (2003)

Modify deformation-sliding factor (minimisation based on outcome of previous attempts)

Is the volume matched at No inventory date?

End.

Is the length Yes matched at the No inventory date?

Yes

Model is calibrated. Transient geometry used to initialise glacier evolution (starting from inventory date)