

Start.

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

Glacier evolution
to steady state

**Steady-
state glacier
(1990)**

Transient climate
(from E-OBS)

**Modelled
glacier at
inventory
date (2003)**

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

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

End.

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

Is the volume
matched at
inventory date?

No

Yes

Is the length
matched at the
inventory date?

Yes

No