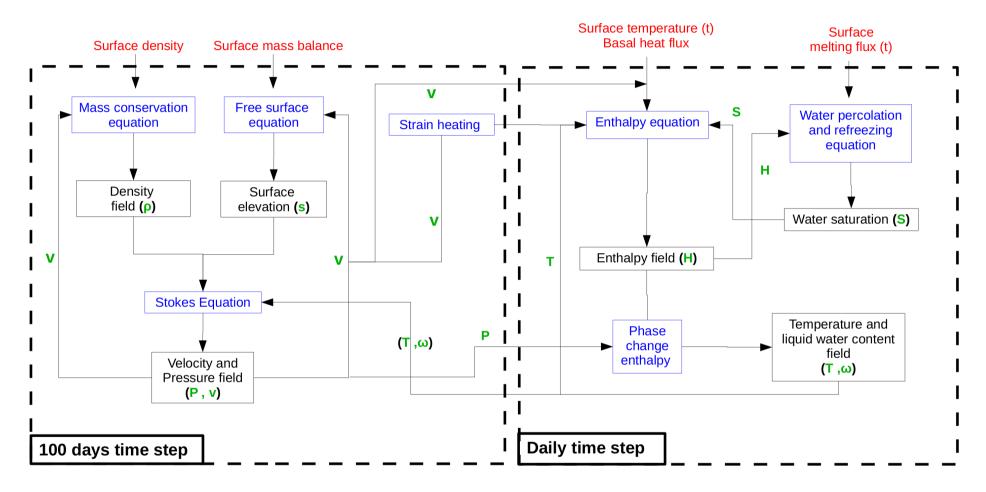
## Solving the thermo-mechanical coupled problem in cold accumulation zone: modeling full thermo-mechanical response to climate change

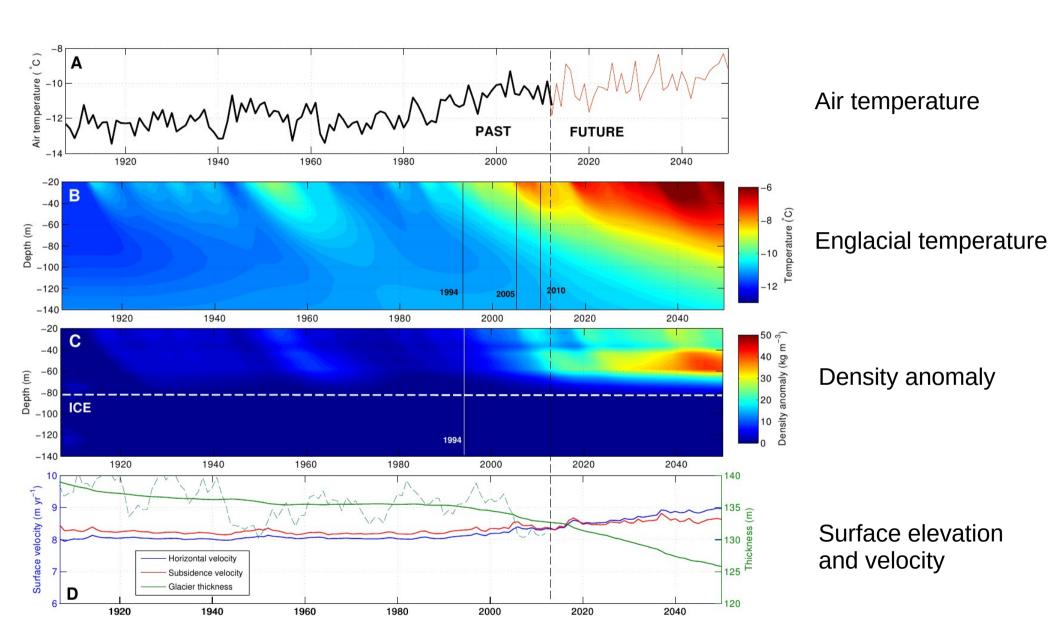


## Variable evolution which are solved in transient simulation:

- Density
- Velocity field
- Free surface elevation

- Enthalpy field
- Water percolation and refreezing

Example 1 : Modeling Col du Dôme thermo-mechanical response to climate change



## **Example 2: Investigate temperature change on cold hanging glacier**

