


# SvalGlac

## Glacier dynamics modelling group activities/preliminary plans

GROUP MEMBERS:

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**Italian team:**

• 2D-modelling of Amundsenisen icefield; with focus on the free-boundary Stefan problem of melting at the ice-bed interface in the area of the suspected subglacial lake.

**Spanish team:**

• 3D full-Stokes (Elmer) modelling of dynamics of the whole Amundsenisen icefield. Aim: defining flowline geometry and boundary data to be supplied to 2D-modelling by Italian team.

• Next: 2D/3D-modelling of dynamics/calving of Hansbreen.

**Finnish team:**

• Present-day full-Stokes simulations (Elmer) of Vestfonna ice-cap. Next step: prognostic simulations.

• Next: surge-calving-toy-model of Paierlbreen?

**Polish team:**

• Involved in many of the above as field data suppliers and interpretation of results.

**Norwegian team (associated partner):**

• Involvement yet to be defined.