IVORI*

Marie Dumont

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Kick-off meeting



^{*.} new Insights on the Snow coVer: from snOwflakes to ice sheets, in seconds to centuRles

KICK-OFF MEETING SCHEDULE

Provisional programme:

Introduction

14h00 - 14h15 : Overview of the project (Marie D.)

14h15 - 14h45: Introduction (All participants)

Model

14h45 - 15h00 : Physics of the snow model (Julien B.)

15h00 - 15h15 : Snow model design (François T.)

Measurements

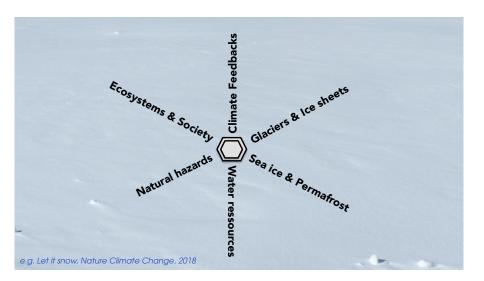
15h15-15h30: X-ray tomography (Pascal H.)

15h30 - 15h45 : Field campaigns (Neige C.)

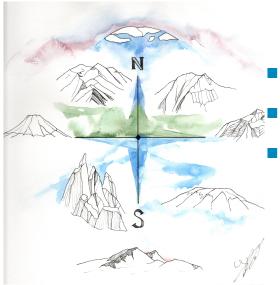
Discussion

15h45 - 16h30 : General discussions (All participants)

WHY IVORI?

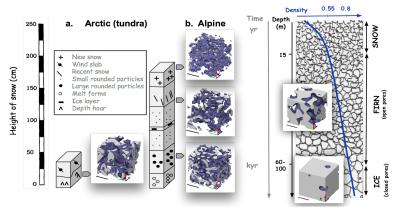


WHY IVORI?



- Various snow cover types on earth
- A wide jungle of snow models
- A gap between the current knowledge in snow physics and the more complex snow models

OBJECTIVES

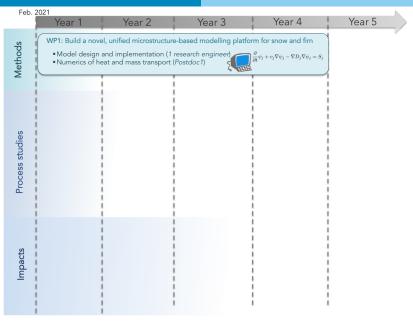


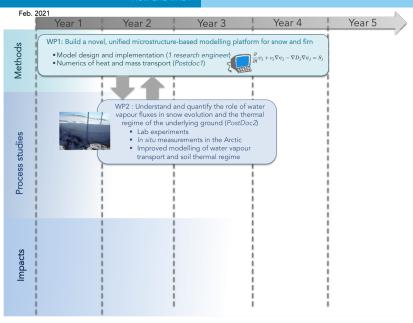
- To build a modular, "universal" snow model with an advanced representation of the snow microstructure;
- To accurately quantify climate feedback related to snow, especially the changes in ground thermal regime in the Arctic;
 - To refine our understanding of ice cores.

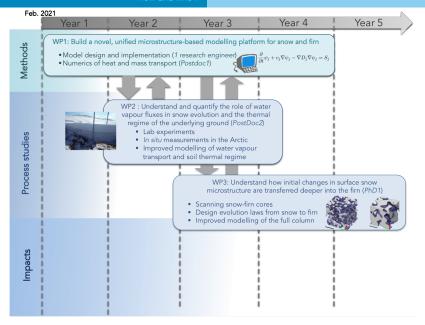
WORK PLAN

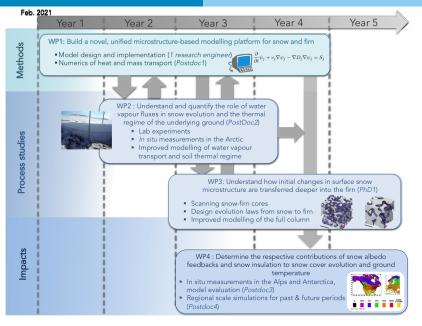


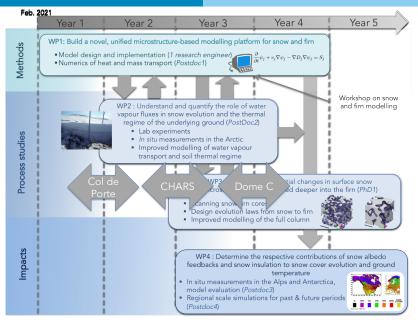
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WHO?



Marie Dumont



Matthieu Lafaysse



Pascal Hagenmuller



Julien Brondex



Neige Calonne



François Tuzet

WHO?

France

- · CNRM/CEN: Samuel Morin (snow modelling and climate);
- . SIMAP: Pierre Lhuissier, (X-ray imaging, lab experiments, material science).
- IGE: Ghislain Picard (polar snowpacks); Laurent Amaud (firm physics, instrumentation); Emmanuel Cosme (assimilation); Maurine Montagnat (ice and firm mechanics);
- . LJK: Eric Blayo (numerics for geophysics);
- . LSCE: Amaelle Landais and Anais Orsi (ice core and firn).

Germany Aachen Univ.: Julia Kowalski, (numerics for geophysics)

Switzerland WSL/SLF: Henning Löwe (snow physics, X-ray imaging); Matthias Bavay (snow model design, responsible for SNOWPACK model); Charles Fierz, (Instrumentation and modelling);

Canada

- · Laval Univ.: Florent Domine (arctic snowpacks);
- . Sherbrooke Univ.: Alexandre Langlois (arctic snowpacks).

















COMMUNICATION

@ivori_erc and ivori.osug.fr



IVORI

Insights on the Snow coVer : from snOwflakes to ice sheets, in seconds to centuRles



The project

The ERC project IVORI aims at building a model for snow and firn, with a novel physics core, adapted to the whole range of climate conditions encountered on Earth.



NEXT STEPS

- Plenary meeting every year?
- More focused meeting (per WP?) more frequently?
- Which participant is interested in which WP?
- Other ideas?