

# **European Snow Booklet: Best Practice for Snow Monitoring**

A proposal funded by the Swiss COST office

2 years funding for a Postdoc starting 1. Dec 2016

# Objectives

The project will..

- A. provide a comprehensive inventory of snow cover measurements in Europe and associated best practices.
- B. starting a preliminary sensitivity study on the effect of station inhomogeneities on the different measured snow parameters.

(A) The following questions will be clarified on country level:

- Which are the main snow parameters measured in operational monitoring programs across Europe (→ already available questionnaires)
- Since when are these parameters measured, at how many stations and what is their altitude distribution?
- How and how frequently are these parameters measured.
- Who maintains the stations and what are the guidelines.
- In what form is the corresponding metadata available.
- Is there any historical snow data, which is worth to be digitized.
- Contact for information about this measurements.

(B) Use of parallel measurements to develop a strategy for minimum requirements with regards to homogeneous long-term snow data series:

- Do you know of parallel snow measurements by e.g. two different institutions?

## **Support from...**

Editorial Team set-up in Helsinki, November 2015:

- Ali Nadir Arslan
- Christoph Marty
- Ekatarina Kurzeneva
- Ghislain Piccard ?
- Giovanni Macelloni
- Jürgen Helmert
- Patricia de Rosnay
- Wolfgang Schöner

## **Strong ties and important cooperation with...**

- The WMO Global Cryosphere Watch (GCW) initiative  
→ Best Practice Team
- The WMO Solid Precipitation Intercomparison Experiment (SPICE)  
→ Update snow measurement guidelines in the CIMO guide (WMO No. 8).  
→ Provide guidance on transition from manual observation to automation of snow measurements.