

WISLINE meeting 11 March 2015

Location: The Norwegian Meteorological Institute, Oslo

Attendees:

The Norwegian Meteorological Institute (MET): Harold Mc Innes, Ole Einar Tveito, Jan Erik Haugen, Bjørg Jenny K. Engdahl, Per-Ove Kjensli, Dagrun Vikhamar Schuler, Hilde Haakenstad, Cristian Lussana

University of Oslo, Department of Geosciences: Jón Egill Kristjánsson

National Center for Atmospheric Research (NCAR): Roy Rasmussen, Greg Thompson

Kjeller Vindteknikk (KVT): Bjørn Egil K. Nygaard, Øyvind Byrkjedal

Norwegian Forest and Landscape Institute: Svein Solberg, Nikolas von Lüpke

Purpose of the meeting

A start up meeting where the persons involved in WISLINE are introduced to each other, the WP's are presented and points that need to be clarified in order to start the work are discussed.

Information

Since the Research Council has allocated 500 000 NOK less than we applied for and the expenses for doctoral fellowships have increased at the same time, we had to revise the application, and this revision is currently being assessed. As soon as the revision is approved we will start preparing the contracts with the partners. The revised application will form the basis for the contract.

Summary from the presentation of the WPs and the discussions

The presentations of the different WPs will be available on the WISLINE wiki. The following issues were discussed:

1. To implement the Thompson scheme into AROME, as suggested in WP1, is complex and extensive work. It is not clear whether this is achievable as PhD work during the WISLINE project. It could be an alternative to make changes in the existing AROME microphysics scheme in order to make it more similar to the Thompson scheme.
2. A reanalysis/hindcast archive based on AROME is expensive with respect to CPU time. A 30 – 40 year archive for the entire AROME domain is not achievable within WP2 in WISLINE, but long data series are required as input for WP3. WP2 can solve this problem by producing 40 years time series of data from a selection of geographical points for WP3.
3. Hindcast runs with AROME as well as SURFEX are currently being carried out at MET, and WP2 will benefit from this work. For downscaling to 1 km resolution SURFEX will be used, as this is less computational expensive than AROME.

4. WISLINE will through WP3 benefit from the project FRonTLINES, where MET also is involved. There is an overlap between WP3 and FRonTLINES, which means that the cut in WISLINE budget only has a minor impact on WP3. Observational data from FRonTLINES will be available for WISLINE.
5. The planned case study of an extreme storm and associated forest damage is not achievable under the WISLINE project due to the budget cut. This case study was proposed by the insurance company Skogbrand, and if they are willing to contribute economically, the study will be carried out. Svein Solberg will investigate this.
6. According to the project plan WISLINE will install a Rosemount icing detector for verification of the AROME microphysics. The estimated cost of this instrument is 15 000 – 20 000 \$, and MET plans to carry this expense. However it was discussed whether better and more suitable instruments could be purchased for this price. Roy Rasmussen pointed out that the Rosemount icing detector has been successfully used for many years and therefore is a safe instrument. Further discussion is here needed, and a meeting involving Roy Rasmussen, Greg Thompson, Jón Egill Kristjánsson, Bjørn Egil K. Nygaard will be held in April. The meeting will be organized by Harold Mc Innes.
7. There are strong links between WP2, WP3 and WP4. WP4 will require data from WP2 and WP3, and it is important that these datasets cover periods of interest for WP4. WP3 will also need datasets of sufficient length from WP2. This should be discussed further in a separate meeting between these WPs. Harold Mc Innes is responsible for organising such a meeting, which will be held in May.
8. The user group must be involved, but first we need to define it exactly. Directorate for Emergency Communication (agency for public safety network), Statnett (system operator, the Norwegian energy system) and Skogbrand (Insurance company owned by forest owners) have written letters of support and are part of this group. There are however others that could be involved. Examples are Norwegian Electrotechnical Committee, Norkring and REN. Svein Solberg will find candidates from the forestry. A complete user group will then be defined.
9. A web page for WISLINE is needed for sharing information within the project group. The easiest is to make a Wiki page here at MET and open it for the group. A WISLINE page on the WWW could be useful for marketing and communication purposes, and will be considered. The first stage will however be to make a Wiki page for the project group.

Meeting closed

Future meetings will be held in the afternoon Norwegian time because of the time difference between Norway and Colorado.