



Status of Snow analysis at DWD

Martin Lange, DWD





Including MSG snow mask into DWD has been envisaged at the WG3b meeting 2017

- Software to preprocess Satellite data at MCH is required. Presently some problems to solve at MCH (which issues?).

New development of surface analysis package in the upcoming time.

- This is bound to new resources which are expected to become available in the next year, but which is not finally decided upon. The decision is delayed due to missing german government.

Switch to ICON-LAM

- The snow analysis package will be adapted in it's present state to provide initial snow fields for the next generation limited area model.





Aob

- **SMRT (Snow Microwave Radiative Transfer model) is an interesting (easy to run) software package to be used in the snow analysis for assimilation of microwave satellite data. Intensification of collaboration with a model expert (Sascha Belair) is required to assess the possibility to estimate required snow microstructure parameter in the snow model and to apply the SMRT package as forward operator.**
- **Global snow analysis:
Replacement of low resolution (0.5°) american snow depth data used in data sparse regions by high resolution product (0.083°).**

