

# 2016-04-18/19 WG3 Meeting ZAMG, Vienna

## Date

April, 18th and 19th, 2016

## Place

Vienna, ZAMG

## Attendees

April, 18th: Together with participants of the Workshop on Remote Sensing Products of Cryosphere using Sentinels (<http://www.harmosnow.eu/index.php?page=18.04.2016,%20Vienna>)

April, 19th: M. A. Sensoy (Turkey), M. Derkova (Slovakia), S. Pullen (UK), C. Menard (UK), M. Sandells (UK), A. Bartsch (Austria), V. Potopova (CZ), M. Olefs (Austria), D. Finger (Iceland), D. Pulido (Spain), R. Salgado (Portugal), G. Heinrich (Austria), J. Helmert (Germany)

## Goals

- Snow models
- Questionnaires
- SYNOP zero-snow
- Comparison studies

## Discussion items

Time	Item	Who	Notes
2016-04-18 16:00	Presentation + Discussion	Marc Olefs	Snow model SNOWGRID
2016-04-18 16:40	Presentation + Discussion	David Finger	Overview about the impact of snow cover images on the improvement of hydrological modelling
2016-04-18 17:20	Presentation + Discussion	Jürgen Helmert	Snow models for NWP application
2016-04-19 09:00	Presentation	WG3 leaders	Report about meetings in Helsinki and Erzurum
2016-04-19 09:30	Presentation + Discussion	David Pulido	Estimation of daily Snow Cover Area in periods without available satellite information (eg. cloudy days, or higher temporal resolution satellite) by using cellular automata
2016-04-19 09:40	Presentation + Discussion	Samantha Pullen	Combined contributions and activities in WG3, contributions by R. Essery
2016-04-19 10:00	Presentation + Discussion	Mell Sandells	Community snow microwave scattering model, Snow hydrology and meteorology by N. Rutter
2016-04-19 10:30	Coffee break	All	
2016-04-19 11:00	Discussion	All	WG topics: snow models, questionnaires, case studies, zero-snow from SYNOP, Snow issues in climate simulations
2016-04-19 13:00	Closing	All	

## Action items

- Questionnaires: Stay along with the questionnaires from WG1 and WG2. Need contact point and more feedback from Asia. More comprehensive evaluation in Q4 2016.
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- Exchange of national snow observation data: Prepare statement paper from COST. Link with GCW Snow watch. Asia should be included. Sensitivity study from P. de Rosnay on the impact of additional snow obs.
- Contact EUMETNET for forcing zero snow depth reports (**EUMETNET representative at DWD was informed**)
- Review of snow models: Consider IAHS Working Group on Education in the Hydrological Sciences and Task 3.1 (<http://www.harmosnow.eu/index.php?page=Working%20Group%203>). Classes of snow models used in WG3 as starting point.
- Model intercomparison: verify participation in Earth System Model-Snow Model Intercomparison Project (ESM-SnowMIP).
- Snow in hydrological models: Provide a model overview in WG3. Common terminology according to Beven and Young (2013).
- Consider the impact of snow in long-term simulations: Link to EuroCORDEX comparisons. Uncertainties in alpine region could be related at least in parts to snow.
- Important links for the WG3: <http://globalcryospherewatch.org/>, <http://iahs.info/Commissions--W-Groups/ICSIH-Snow-and-Ice-Hydrology.do>, <http://www.climate-cryosphere.org/activities/targeted/esm-snowmip>, <http://www.euro-cordex.net/>