

NEWA General project meeting 23-25 October 2017

Radisson Blu Hotel Latvija
Elizabetes iela 55, Centra rajons
Rīga, LV-1010 Latvia

Monday, 23 October 2017

Time	Item	Responsible
8.30-10.30	Steering committee meeting (Separate agenda) <i>(Beta 1, 2nd floor)</i>	Jakob Mann
10.30-11.00	REGISTRATION & WELCOME COFFEE <i>(Halle 1, 2nd floor)</i>	
11.00-11.30	Welcome <i>(Beta 2, 2nd floor)</i> <i>Status of NEWA, objectives of meeting</i>	Vladislavs Bezrukovs (ERI VIRAC) / Jakob Mann (DTU)
11.30-12.15	Overview of the Perdigão campaign and initial model comparisons <i>(Beta 2, 2nd floor)</i>	José Palma
12.15-13.15	LUNCH <i>(Terase, 1st floor)</i>	
Parallel sessions		
13.15-15.00	Session A: Data exchange/storage/access <i>(Beta 2, 2nd floor)</i> <i>Objectives:</i> <ul style="list-style-type: none"> • Provide overview of what is stored where (Mike Courtney) • Ambition and plan for making measurement data available on the NEWA server (Mike Courtney) • Making the TeraBytes of modeling data usable (Neil Davis, Pawel Gancarski) <p>13:15 – 13:30 Kassel experiment status and data (Paul Kühn) 13:30 – 13:45 Alaiz experiment plan (Javier) 13:45 – 14:00 Hornamossen (Johan Arnquist) 14:00 – 14:10 break 14:10 - 14:30 Status of experimental data in the NEWA server (Mike Courtney) 14:30 – 15:00 Plans for data not yet in the NEWA server (Mike/Jakob)</p>	Session B: Micro-scale modeling <i>(Beta 1, 2nd floor)</i> <i>Objectives:</i> <ul style="list-style-type: none"> • Selecting “production run” micro-scale models for the wind atlas (Javier Sanz) • New methodologies: Which can be used to support the production runs (Javier Sanz) <p>13:15 – 13:35 Meso-micro methodology with OpenFOAM (Ismail Tuncer, METU) [title to be updated] 13:35 – 13:55 Effect of maximum mixing length using Mellor Yamada and Blackadar expressions when accounting for Coriolis forces over complex terrain (Matías Avila, BSC) 13:55 – 14:15 Using a fully coupled mesoscale-microscale model for predicting production of individual turbines in a wind farm (Mark Zagar, VESTAS) 14:15 – 14:35 Ideas for meso-micro methodologies (Bjarke Tobias Olsen, DTU) [title to be updated] 14:35 – 15:00 Mean diurnal cycles for AEP assessment at Cabauw, Fino1 and Alaiz (Javier Sanz, Roberto Chávez, CENER)</p>

15.00-15.15	COFFEE BREAK <i>(Halle 1, 2nd floor)</i>	
15:15-16:30	Session A: Data exchange/storage/access continued <i>(Beta 2, 2nd floor)</i> 15:15 – 15:35 WindSP – a tool for experiment management (Jose Palma) 15:35 – 15:55 IRPWind data work and how it is relevant for NEWA (Pawel Gancarski/Neil Davis) 15:55 – 16:30 Discussions and conclusions (Jakob)	Session B: Micro-scale modeling continued <i>(Beta 1, 2nd floor)</i> 15:15 – 16:30 Discussion

19:00 - Dinner at Radisson Blu Hotel Latvija, meeting room 27 on the 27th floor.

Tuesday, 24 October 2017

Time	Item
8.30-12.00	Getting ready for the production runs <i>(Beta 2, 2nd floor)</i> Andrea Hahmann (DTU) / Björn Witha (ForWind) <i>Objectives:</i> <ul style="list-style-type: none"> • Discussion on final WRF model configuration, domain configuration, forcing data etc. • Discussion on how to divide the work to be carried out among participating groups <i>Presentations:</i> <p>8:30-8:45 Overview of work done in the Mesoscale group so far (Björn Witha, ForWind)</p> <p>8:45-9:00 Sensitivity studies comparison (Tija Sile, UL; Andrea Hahmann, DTU)</p> <p>9:00-9:15 Verification of mesoscale sensitivity simulations against mast data for the NW domain (Andrea Hahmann, DTU)</p> <p>9:15-9:30 Sensitivity of simulated wind to land surface options and model-data comparison with mast and surface observations (tbd, UCM-CIEMAT)</p> <p>9:30-9:45 Impact of weighted surface roughness in WRF (Grégoire Leroy, 3E)</p> <p>9:45-10:00 Time step sensitivity (Andrea Hahmann, DTU)</p> <p>10:00-10:15 <i>Discussion: WRF-Setup</i></p>
10.15-10.30	COFFEE BREAK <i>(Halle 1, 2nd floor)</i>
10:30-10:45	Review of the PRACE proposal (Björn Witha, ForWind)
10:45-11:00	What we have learned from the GWA2 and is relevant for NEWA (Bjarke Tobias Olsen; Andrea Hahmann, DTU)
11:00-11:15	Downscaling for the wind atlas production runs: feasibility study for PRACE (tbd, DTU)
11:15-11:30	Options for computing the wind atlas & defining “NEWA light” (Björn Witha, ForWind)
11:30-11:45	Domain configurations for the wind atlas production runs (Björn Witha, ForWind)
11:45-12:15	<i>Discussion: Domain configuration + options</i>
12.15-13.15	LUNCH <i>(Terase, 1st floor)</i>

Parallel sessions		
13.15-14.30	Output parameters and derived parameters Julia Gottschall (Fraunhofer) / Jake Badger (DTU) <i>(Beta 2, 2nd floor)</i> <i>Objectives:</i> <ul style="list-style-type: none"> • Present the final set of output parameters • Decide how to proceed with uncertainty modeling of the output parameters • Figure out how to proceed with derived parameters 	Benchmarking Hornamosen <i>(Mi, 2nd floor)</i> Stefan Ivanell (UU) <i>to be continued Wednesday afternoon after the general meeting has ended</i>
14.30-14.45	COFFEE BREAK <i>(Halle 1, 2nd floor)</i>	
14:45-16:00	Output parameters and derived parameters <i>continued</i> <i>(Beta 2, 2nd floor)</i>	Benchmarking Hornamosen <i>(Mi, 2nd floor)</i> <i>continued</i>
16:00-18:30	Getting ready for the production runs Andrea Hahmann (DTU) / Björn Witha (ForWind) <i>(Beta 2, 2nd floor)?</i> <ul style="list-style-type: none"> • Continued discussion on final WRF model configuration (setup and domains) • Revision of PRACE proposal 	

Wednesday, 25 October 2017

Time	Item	Responsible
8.30-10.00	Getting ready for the production runs <i>(27, 27th floor)</i> <ul style="list-style-type: none"> • Wrapping up yesterday's discussions • Roadmap for wind atlas production runs • Action list + schedule 	Andrea Hahmann (DTU) / Björn Witha (ForWind)
10.00-10.15	COFFEE BREAK <i>(27, 27th floor)</i>	
10.15-11.15	What are we learning (Jakob) <i>(27, 27th floor)</i> <i>Objectives</i> <ul style="list-style-type: none"> • Planning more measurement and model comparisons in order to reduce uncertainties Kassel Benchmark (Björn Witha, ForWind) Ferry Lidar Experiment & Benchmark (J. Gottschall, Fraunhofer; B. Witha, ForWind)	Julia Gottschall (Fraunhofer) / Jakob Mann (DTU)
11.15-11.45	Summary of Steering Committee meeting and planning next meetings <i>(27, 27th floor)</i>	Jakob Mann (DTU)
11.45-12.00	Any other business <i>(27, 27th floor)</i>	Jakob Mann (DTU)
12.00-13.00	LUNCH <i>(Terase, 1st floor)</i>	