

EUROPEAN-AMERICAN COLLABORATION IN WIND ENERGY

MONTHLY WEBINAR SERIES

Measuring Offshore Wind Resources from Ships – The Ferry Lidar Approach

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ABSTRACT Wind lidar has become the standard wind measurement technology in the wind industry in recent years, but offshore measurements are still relatively rare. The application from ships travelling over large distances has the advantage that large areas can be covered, and wind resources can be determined. The presentation will give an overview of past campaigns and applications in which we have not only demonstrated the general measurement concept but have already validated both mesoscale models and the reconstruction of wind data from satellite measurements. The talk will also discuss the accuracy of ship-based measurements in the wind energy context and the application in large-scale atmospheric experiments such as EURE4A and WARD Tropics.

BIO Julia is Chief Scientist and lead of the Wind Data Analysis group in the department for Wind Measurement and Characterization at Fraunhofer IWES where she has been since 2011. She is involved in a variety of research activities around the application of remote sensing for wind energy including the development of new measurement systems, measurement concepts and advanced data processing and analysis techniques. As a recognized expert in her field, Julia is also very active in pre-normative and normative standardization, and currently leads the IEA Wind Task 52 (on Large-Scale Deployment of Wind Lidar) as Operating Agent.