



Improving coastal wind resources assessment using high resolution surface forcing in the German Bight

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Though the German North Sea coast is flat, quite heterogeneous surface conditions occur due to the presence of numerous islands. In this study care, the surface conditions for the mesoscale model (WRF) are improved using high resolution site data. The sensitivity of the simulations to the representation of the land sea discontinuity are examined under different meteorological conditions and validated with the weather station data.