Can We Predict Hurricane Impacts Without the Ocean?

If you think you can, think again! Superstorm Sandy (2012) and Hurricane Ike (2008) should wake you up. If not, you need not apply. This project aims to better understand and predict hurricane impacts using coupled air-sea observations and a fully coupled atmosphere-wave-ocean-land model. We study hurricane impacts at landfall, on transport of oil spill, and potential impacts with sea-level rises in future climate conditions.

The UM Coupled Model forecasts of sea surface height and current (left) and wave height (right) in Superstorm Sandy.

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