

Tropical cyclone (TC)-ocean interactions are critical processes for the TC formation and development because ocean is the energy source for TCs. The air-sea interaction processes involve energy and momentum exchange and are important for both TC and the ocean.

Theoretical, observational and numerical modelling studies in this field are making strikingly progresses during the past years to contribute to improvement in TC intensity prediction in current climate as well as future global warming. This talk features the interaction between TC and ocean , from weather, climate and global warming scales.

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海洋是熱帶氣旋的能量來源，因此熱帶氣旋與海洋的交互作用對於熱帶氣旋的形成與發展息息相關。海氣間的交互作用牽涉能量與動量的交換，並且對於熱帶氣旋以及海洋都很重要。

在此領域，近年來不論在理論上、觀測上以及數值模擬上的研究都有驚人進展，使其對於改進現時氣候之熱帶氣旋強度預測及了解未來全球暖化都有所貢獻。本次演講將從天氣、氣候以及全球暖化的尺度來談熱帶氣旋與海洋間的交互作用。