**Tropical Cyclone Wind Field Determination:**

**Challenges and Possibilities**

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ABSTRACT

The structural complexities of Severe Tropical Cyclone Larry (2006) are reviewed, and the possible impact those complexities may have had upon the sampling of wind speed discussed. Experience from past events, along with recent advances in knowledge of storm structure and wind speed estimation methods indicate the difficulties encountered in sampling this storm are not uncommon. These difficulties suggest a need to increase best track documentation requirements to include uncertainty measures and assumptions so that the best track values can be reassessed by future generations where possible and necessary. Increases in documentary requirements may improve the error bound determination of intensity estimates of individual events, and may also enhance their value within the climate record.

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