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Proposal Title: A Comprehensive Statistical Analysis of Thermospheric Neutral Wind Measurements; Building a Testing a New Reference Model

Abstract:

Based on the success and failures of the HWM-93 model, we propose to construct a new empirical wind reference model to answer several important science questions relating to the place of thermospheric winds in the broader LWS objectives. Our new model will also serve as the benchmark for future scientific investigations and numerical simulations of the thermosphere/ionosphere system.