

NCAR Final Report for participation in

“Evolution in Cloud Population Statistics of the MJO: From AMIE Field Observations to Global Cloud-Permitting Models”

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The NCAR role in this project was to host a visiting postdoc from the University of Miami. NCAR received a total of \$45K to complete this effort over the period 8/15/2012 through 8/14/2015. The NCAR PI (Jimmy Dudhia) served as mentor and supervisor for the University of Miami postdoc, Romain Pilon. Dudhia provided oversight of Pilon's work and provided guidance as needed throughout the duration of the project.

The NCAR participants of this project (Jimmy Dudhia and William Skamarock) led the effort focused on MPAS simulations conducted by the postdoc at NCAR. Dudhia and Skamarock advised Pilon on carrying out and interpreting the simulations and diagnostic work. This effort was performed in collaboration with the NCAR MPAS team and the diagnostic team of this project located at the University of Miami and other entities.

The University of Miami will provide a final technical report on the main research results from the work carried out under this proposal. The final report will be provided following the end of their no-cost extension period. Dudhia and NCAR collaborators will be contributing to this final report.