

Evaluation and Operational Implementation Strategy for FV3 based Global Forecast System at NCEP

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NOAA's NGGPS Project has entered into the 3rd phase of implementing the newly selected non-hydrostatic dynamical core based on GFDL Finite Volume on Cube Sphere (FV3) model to replace the semi-lagrangian spectral dynamic core currently in use at NCEP operations. This talk will provide details on operational implementation strategy, and status update on integration, testing and evaluation of the FV3 dynamic in the Global Forecast System (GFS). FV3 based GFS is being developed as a community model and is targeted for initial operational implementation in 2019. Preliminary evaluation of FV3GFS for hurricane track and intensity forecasts from a large sample of retrospective experiments and plans for real-time experiments during 2017 hurricane season will be presented.