

Planned HWRF v12.0.0 Upgrades

➤ System & Resolution Enhancements

- Increase horizontal resolution to 1.5/4.5/13.5 km, with adjusted domain sizes for do1, do2 and do3
- Increase vertical resolution for non-NHC basins to 75 levels

➤ Physics Advancements

- Improve radiation scheme
- Update surface exchange coefficients

➤ Data Assimilation & Initialization Improvements

- Introduce stochastic physics for DA ensembles
- GSI code upgrades; add new data sets (GOES-16 AMV's, SFMR, dropsonde drifts, TDR from G-IV)
- Extend DA to Western Pacific Basin

➤ Coupling and other upgrades

- Unified HMON/HWRF coupler
- Add ocean coupling (HYCOM) for Southern Hemisphere basins