Discussion on Stream 1.0

NHC & EMC





Focus areas

- Align HFIP Research with EMC/NHC Operational Implementation timeline
- Prioritization of research transitionable to operations
- Use of community modeling framework, resources and support enabled by HFIP
- Two-year rule: one-year development and one year demo before EMC can work on operationalizing model upgrades
- Computational resources

EMC Priorities

- Dependency of regional models on parent global model
- Assure that global model upgrades/implementations do not degrade regional hurricane models
- Work closely with NHC throughout the development and implementation cycle of both regional and global systems (including GEFS)
- Agree on a sufficiently large sample of cases for testing.
- Comprehensive and well designed test plan as done with HWRF since 2010
- Continuous engagement with NHC in evaluating individual components and at every stage of critical decision making process

HFIP Supported Research Priorities

 Must align with near to long term strategies of operational hurricane modeling plans

Have a well defined path for operational transitions

Make use of established R2O framework supported by DTC and HFIP

 Take advantage of training on operational HWRF (including Python scripts) to work in the same functional environment as operations

Choice of model upgrade components

 Only limited additions can be done to operational HWRF upgrades each year

Physics and DA dominate the priorities

 Use of HFIP provided resources (Jet) is critical for T&E – help us make wise choices.....