Strategic Implementation Plan (SIP) for a Community-based Unified Forecast System

Post-processing Working Group

Presented by
Jeff Craven, (NWS/STI/MDL)

Presented at SIP Coordination Meeting

January 31, 2018; College Park, MD

Post-processing WG
Membership

- *Jeff Craven (STI/MDL) ***
- *Hui-Ya Chuang (NCEP/EMC) ***
- *Brian Colle (SUNY Stony Brook) ***
- Yuejian Zhu (NCEP/EMC)
- Bo Cui (NCEP/EMC)
- Steven Weiss (NCEP/SPC)
- Matt Strahan (NCEP/AWC)
- Melissa Ou (NCEP/CPC)
- Mike Charles (NCEP/CPC)
- Bruce Veenhuis (NCEP/WPC)
- Tom Hamill (ESRL/PSD)
- Jerry Wiedenfeld (WFO Milwaukee)

- Peter Neilley (The Weather Co.)
- Mark Stoelinga (Vaisala)
- Joshua Hacker (UCAR)
- Luca Delle Monarche (UCAR)
- Roland Stull (Univ. British Columbia)
- Paul Roebber (Univ. Wisconsin)
- George Young (Penn. State)
- Cliff Mass (Univ. Washington)
- Curtis Alexander (OAR/GSD)
- Kate Fossell (NCAR/DTC)
- Matt Peroutka (STI/MDL)

- *Co-Chair ***

Post-processing WG
Project Milestone Accomplishments

- **SIP project accomplishments to date:**
  - EMC nearing completion of beta Unified Post for FV3 (12.1)
  - MDL planning to integrate FV3 output (12.1)
  - Progress with National Blend of Models (NBM; 12.1)
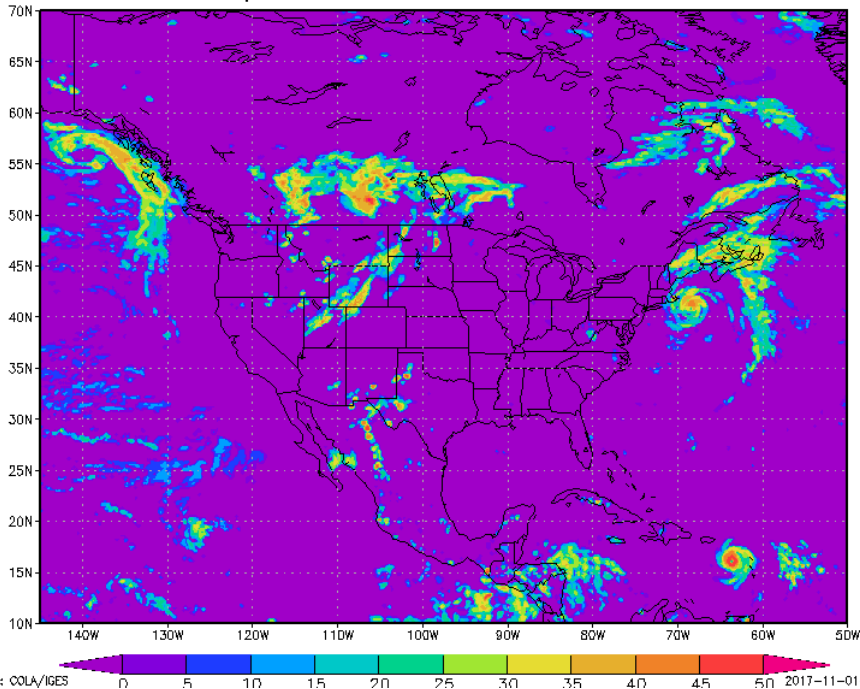 - Progress with WISPS (12.2)

- **SIP project issues:**
  - WG needs to refocus efforts on projects 12.2 – 12.4
  - Future versions of SIP should address NBM more directly
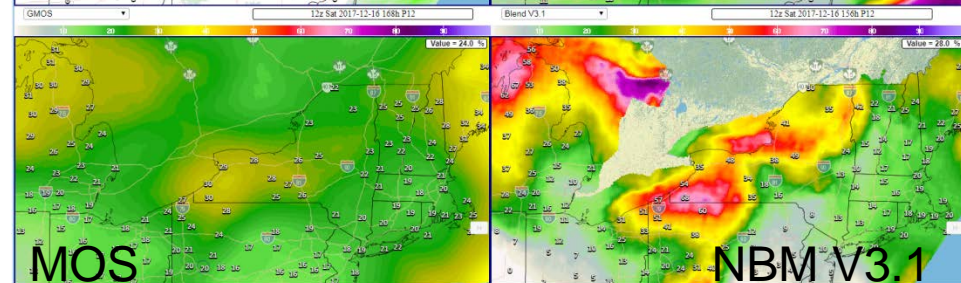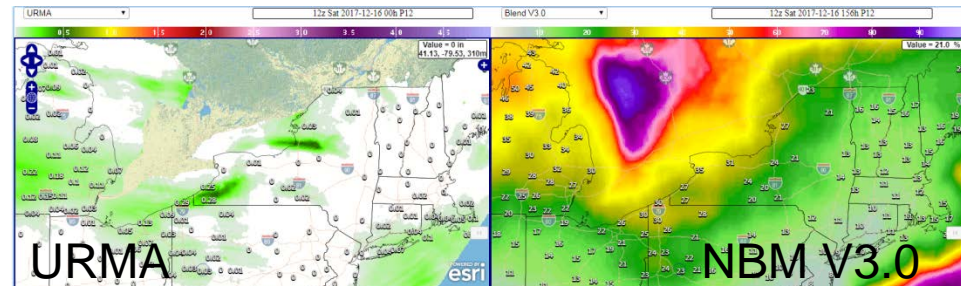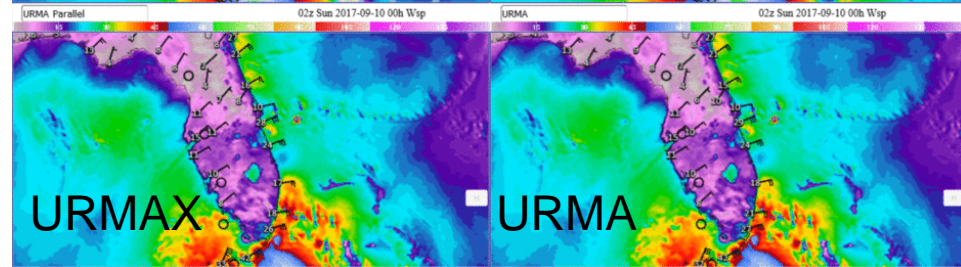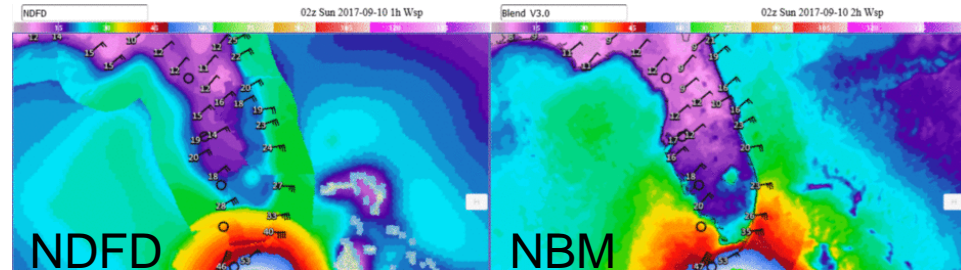
Post-processing WG Accomplishments
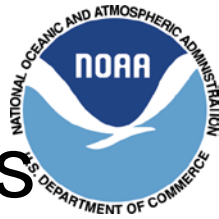

FV3 F120 Comp Radar Ref forecast valid at 2017092000

Simulated Comp Reflectivity for GFS FV3 – EMC

NBM Wind Gusts for IRMA and Day 7 Lake Effect PoPs using Quantile Mapping – MDL/OAR

NDFD
NBM
URMAX
URMA

URMA
NBM V3.0
MOS
NBM V3.1

Post-processing WG
Team Coordination and Dependencies

- Improved coordination among NOAA post-processing entities

- Retrospective data from FV3 as they become available

- Re-energize WG discussions with academic and commercial sectors