



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

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## *Post-processing Working Group*

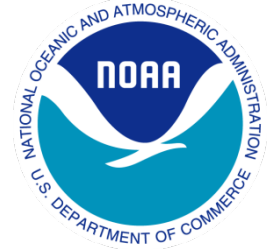
*Presented by*

**Matt Peroutka, NWS OSTI/MDL**

*Presented at NOAA Community Modeling Workshop  
April 18-19, 2017; College Park, MD*



# Post-processing WG *Membership*

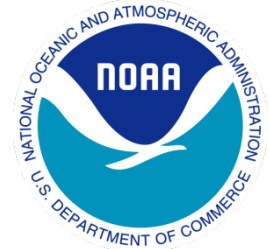


- *Hui-Ya Chuang (NWS/NCEP) \*\**
- *Matt Peroutka (NWS/OSTI)\*\**
- Mike Charles (NWS/NCEP)
- Luca Delle Monache (UCAR)
- Rich Grumm (NWS/CTP)
- Tom Hamill (NOAA/OAR)
- Peter Neilley (The Weather Co.)
- Paul Roebber (U Wisconsin)
- Matt Strahan (NWS/NCEP)
- Steve Weiss (NWS/NCEP)
- George Young (Penn State Univ.)
- *Brian Colle (Stony Brook Univ) \*\**
- Curtis Alexander (NOAA/OAR)
- Bo Cui (NWS/NCEP)
- Kate Fossell (UCAR)
- Joshua Hacker (UCAR)
- Cliff Mass (Univ. of Washington)
- Melissa Ou (NWS/NCEP)
- Mark Stoelinga (Vaisala)
- Roland Stull (U. British Columbia)
- Jerry Wiedefeld (NWS/MKE)
- Yuejian Zhu (NWS/NCEP)
- *Co-Chair \*\**
- *Plus four Associate Members*



# Post-processing WG

## *Initial Findings*



Over-arching Goal: Serve as a catalyst for various post-processing approaches as well as accessible data and information for the community

### Workshop on Postprocessing (January 2016)

- Science
  - Entrain professional statisticians
  - Perform more intercomparisons
  - Quantify need for reforecasts
- Community Infrastructure
  - Tiered code management with community-friendly tools
  - Standards for data, metadata, and software
- Data
  - Make data readily available to community
  - Routinely generate analyses and reforecasts



# Post-processing WG

## *Emerging vision for successful post-processing in NGGPS*

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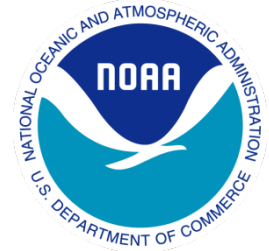
- Is rooted in sound scientific and statistical principles
- Unifies methodology and data format
- Serves a broad spectrum of users
- Delivers a broad range of products from raw data at model resolution through post-processed
- Is built on a community infrastructure that is fully accessible to the entire community and fosters community involvement for easy R2O and O2R transitions



# Post-processing WG

## *Barriers we see to this vision for post-processing*

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- Duplication of effort and inconsistency in data format
- Dissemination challenges within NOAA and from NOAA to non-NOAA entities
- Lack of high-quality analyses
- Lack of robust reforecasts and an infrastructure that can routinely produce them
- Large and diverse spectrum of users and the products needed to serve them