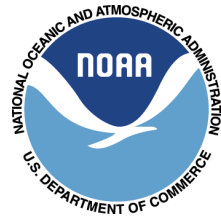




Some Take-Aways From this Week's Meetings



Tim's Perspectives

- **We're making a lot of progress!!!**
- Requirements / performance metrics
 - Collecting, categorizing and organizing what we have
- Need to further employ evidence-based processes
 - DTG-like process



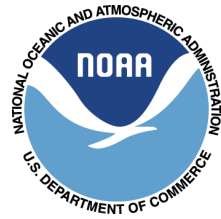
Some Take-Aways From this Week's Meetings



- Growth of “opportunities”
 - Community – takes resources, effort, and attention
 - New “groups” (boards, committees, teams, etc.; e.g. community planning group)
 - Meetings
- EMC:
 - Central role in NGGPS
 - NGGPS poses impacts and challenges
 - Transition of EMC Leadership



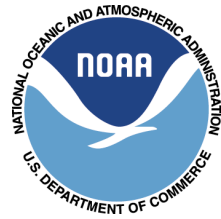
World's Best Weather Prediction Capability



- **NOAA Governance/Organization (including R20/O2R relationship)**
 - Reduce risk and expedite transition/implementation of most promising capability
- **Develop a new community approach for model/component development**
 - External and Internal
 - Employ Global Modeling Test Bed (GMTB)/Developmental Testbed Center (DTC) and a more robust Joint Center for Satellite Data Assimilation (JCSDA) to encourage and facilitate community interaction
 - Community modeling workshop planned
 - Accelerate O2R & R2O
- **Consider “DTG like” approach for targeted/accelerated development of physics and data assimilation capabilities**
 - Plans in place for development/implementation of Common Community Physics Package (CCPP)
 - Investing in Joint Effort for Data assimilation Integration (JEDI)



World's Best Weather Prediction Capability



- **Extend Weather Forecast to 30 days**
 - Improved coordination and collaboration through ESPC
 - Implement a fully-coupled NWP System Atmosphere, Ocean, Sea Ice, Land Surface, Waves, Aerosols and Atmospheric Composition
 - Support development of products for weeks 3 and 4
- **Support unification of the NWS Numerical Weather Prediction Suite**
 - Across temporal and spatial scales
- **Optimize all aspects of high performance computing (allocation, resourcing, and advanced architecture/algorithms)**
- **Increase effectiveness of product distribution**
 - Post-processing, assessments, and display



World's Best... 2017 and Beyond

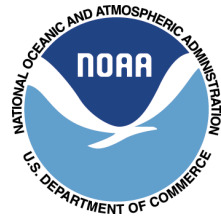


- NGGPS Priorities: the three legs of the stool
 - Implement advanced dynamic core (FV3) for global weather forecast applications
 - Highly scalable; non-hydrostatic;
 - Extend forecast skill beyond 8 to 10 days; improve hurricane track and intensity forecast
 - Physics (scale aware, etc.)
 - Data Assimilation (JEDI, JCSDA)
- We will continue work to work in parallel on:
 - Aerosols and Atmospheric Composition
 - Marine Prediction (ocean, waves, sea ice, and marine data assimilation)
 - Land surface prediction and land data assimilation
 - Nesting (includes hurricanes and convective systems)
 - Post-Processing
 - Ensemble Development
 - Overarching System (architecture/integration incl NEMS/ESMF)
 - Verification and Validation
 - Testbeds





World's Best... 2017 and Beyond



- Federal Funding Opportunity
 - Continue FY16 awards in FY17
 - Realign and focus as program evolves
- Upcoming meetings
 - Phase 3 Dycore Integration and Implementation Kick-off Meeting (~Sep)
 - Code, Data, Document Management Workshop (1-2 Sep)
 - Community Modeling Workshop (TBD: Oct-Nov)
 - NGGPS Atmospheric Physics Workshop (7-9 Nov)