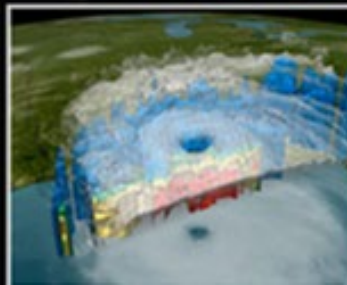
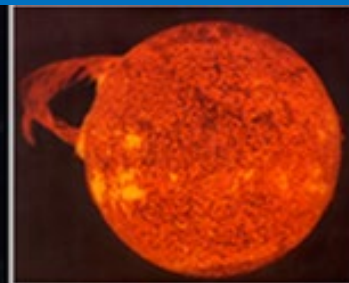
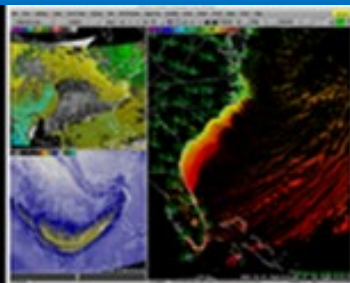


NOAA

National Weather Service


FY 17 Action Item Status – Product and Verification Needs December 3, 2018

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FY17 Breakout Session Status Update



BREAKOUT TOPIC: For the breakout session on **product and verification** needs, translate the group reports into candidate action items.




1. Develop calibrated probabilities and post-processed products to mine impact-based attributes for various weather phenomena to include uncertainty, contingencies, extremes, probabilities, etc.



STATUS: Fairly large scientific effort that should be planned within the SIP and the CaRDS process. EMC will help produce the raw data necessary to make calculations within graphic display strategies (e.g., AWIPS2). Re-engineering effort underway for Unified Post software.



2. Develop better ways to display/visualize/post-process what is being produced from high temporal and spatial resolution without causing data overload.



STATUS: Ensemble viewer effort underway with partnership between Centers and MDL – merges NCAR ensemble viewer with other ideas. CaRDS-requested National GIS-enabled data viewer in planning.

FY17 Breakout Session Status Update

3. Continue/increase developer attendance at testbed experiments.

STATUS: Numerous EMC employees attended testbed experiments in FY17.

4 .MEG should unify/clarify evaluation process

- Single website for all evaluations/experimental data with links to viewers, parallel data. Promote this site via SSD chiefs and MEG

- Need for both statistics (long term view) and images (short term/situational view)

- More resources to MEG (clone Geoff Manikin)

STATUS: Recent FV3GFS evaluation was noted as perhaps the most comprehensive GFS evaluation in NWS history. Website was established with links to statistics, images, and parallel data. VLab was used to collect feedback in a central location. MEG briefed hundreds of slides over several months.


STI has yet to fund a cloning machine to replicate the Model Evaluation Group.



FY17 Breakout Session Status Update




5. Accelerate development of 3D RTMA/URMA



STATUS: 3D RTMA/URMA remains a top priority at EMC. The dedicated joint EMC and GSD project has completed its first year of 3 year project resulting in an early, experimental prototype being executed by GSD collaborators. Plans are in place for testing and evaluation at testbeds and aggressive development continues.



6. Create unified, comprehensive ensemble verification system across scales (CAM to global)



STATUS: METplus continues to add capabilities for ensemble verification strategies. This topic will gain momentum as the production suite evolves towards an all-ensemble approach. SIP working groups should begin to address.