Charge to the Community Model Review Committee (CMC):
2018 Request for Review of Elements of NOAA's Modeling Programs

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NOAA has implemented a unified modeling approach for its operational model development (the Unified Forecast System), developed a set of detailed, comprehensive, and coordinated plans development and governance (both strategic and visionary), and strengthened its programmatic coordination across the Line Offices. To further strengthen NOAA’s approach to unifying operational weather and seasonal modeling development, the Community Model review Committee (CMC) has been formed and aligned with the NWS and OAR Modeling Programs.

The stated scope for the CMC includes space weather, air quality, and water modeling (including surge modeling); inclusive of the Office of Science and Technology Integration (OSTI) modeling programs, NCEP’s Production Suite, and NOAA’s operational modeling research and development programs for improvement of operational products and services.

Within this broad and diverse portfolio, recognizing the current exigencies of the Agency, OSTI and the OAR Office of Weather and Air Quality (OWAQ) request that the CMC focuses on the following areas:

1. “Core Principles for Organizing an Enterprise Operational Model Development Capability”\textsuperscript{1} for improving modeling research and development and transition to operations
2. Accelerating advancements in NOAA’s data assimilation capabilities
3. Unifying NOAA’s convection-allowing/resolving modeling (CAM) approach
4. Advancing NOAA’s subseasonal to seasonal (S2S) forecasting skill

Aspects of these four areas that the CMC is asked to consider include NOAA’s technical strategies, priorities, resource requirements, developmental approaches, investment strategies, and scientific/technical challenges while conducting this review.

\textsuperscript{1} These “Core Principles” and other supporting documents are provided under separate cover.