

**CCMC Advisory Committee: First
Meeting Summary, a work in Progress**

What CCMC does: Core Competencies

- The CCMC provides the Heliophysics science community access to a broad selection of numerical models, through which users request model runs and view the results through a suite of online visualization tools. Additionally, the CCMC gives model providers and their models broader and wider exposure within the scientific community.
- The CCMC supports NASA missions and the space weather forecasting community by providing a framework in which prospective forecasting models and their output products may be evaluated for efficacy and reliability. This capability facilitates and streamlines knowledge transfer between the research and operational communities.

CCMC has done an excellent job in carrying out these core functions.

Added Benefits

- The CCMC supports educational activities amongst graduate and undergraduate students learning about solar and space physics by providing a modeling testbed environment to explore various concepts in heliophysics. The CCMC also has a tradition of hosting summer students from STEM fields, thus providing them with workplace experience in a stimulating environment.
- CCMC fosters collaboration with the international modeling community.
- The CCMC, by virtue of its role as a repository of various numerical models and model data in heliophysics, is in a position to establish and/or adopt processes that streamline the organization, cataloging, archival, and distribution of model output data, thereby increasing the scientific utility of such data.

How CCMC can do all of this.

- CCMC Staff—a dedicated combination of civil servants, plus full-time and part-time contractors with funding from NASA HQ, NASA GSFC, and NSF.
- Help from colleagues at GSFC
- Students—supported by Heliophysics Science Division, GSFC Office of Education, and NSF
- Visiting Scientists—model contributors and international space weather collaborators
- NASA missions—mostly after-launch support, but CCMC should be involved in mission definition and mission planning phases

CCMC should continue its efforts to supplement funding through leveraging and mission support.

SWAP

- The recently released National Space Weather Action Plan identifies for NASA, in coordination with other agencies, activities “to improve the effectiveness and timeliness of the process that transition research to operations.” The advisory committee anticipates that NASA Headquarters and CCMC will clarify the roles and opportunities this creates for CCMC for supporting SWAP activities.

What is next for the Advisors

- The advisors will meet periodically to help CCMC prioritize projects and identify community needs where CCMC can contribute.
- Suggestions include: Improved visualization, better management of the archive of simulations to allow easier access... (suggestions?)
- Please contact committee members with ideas and comments – rwalker@igpp.ucla.edu

Hot off of the Press from the NSF

- Among the other facilities, **Jicamarca**, **PFISR**, **RISR-N**, **AMPERE**, **CCMC** (in partnership with NASA), **SuperMag** and **SuperDARN** provide critical capabilities that are deemed essential for making progress on Decadal Survey science goals. All should continue to be funded at their nominal FY 2015 level, until 2020 or an interim Senior Review for facilities is convened.