



CCPP Visioning Workshop

Aug. 15-17, 2023 – Introduction and Welcome

Organizing Committee:

Grant Firl (DTC, CIRA, NOAA GSL)
Dustin Swales (DTC and NOAA GSL)
Courtney Peverly (NCAR CGD)
Laura Fowler (NCAR MMM)

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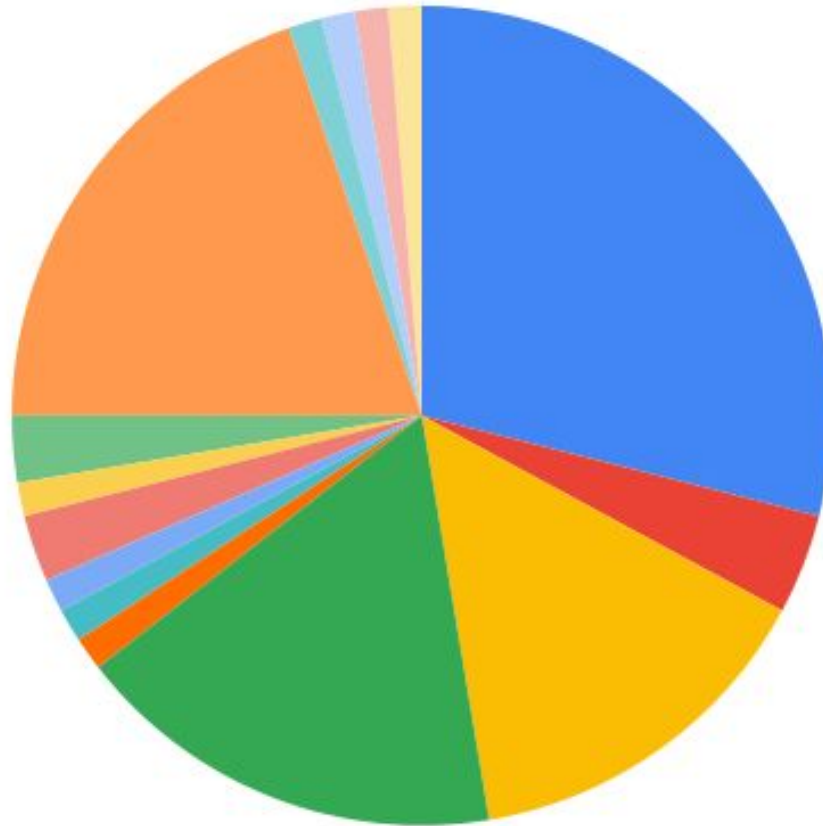


Welcome!

Putting the **C**ommunity in **CCPP**

CCPP Visioning Workshop Registrants

79 Registrants



- NCAR
- NOAA PSL
- NOAA GSL
- NOAA EMC
- NOAA GFDL
- NOAA CSL
- NOAA NSSL
- DOE PNNL
- JCSDA
- U.S. Naval Research Lab
- INPE de Brazil
- Stevens Institute of Technology
- University of Maryland
- Central University of Rajasthan
- Meteorologisk institutt

Workshop Goals

- Inform the community about existing capabilities in CCPP Physics and Framework, including a list of known limitations.
- Gather feedback from physics developers on current status and needs regarding code management, documentation, support, training, and releases.
- Discuss best practices for interoperability and collaborative development.
- Review plans for chemistry and atmospheric composition interfaces and how they relate to CCPP.
- Gather input from subject-matter experts on new frontiers in physics-dynamics coupling.
- Create a prioritized list of required advancements for the CCPP.

Tuesday

**Wednesday/
Thursday**

Afterward

Workshop Agenda

Tuesday, August 15 (All times are MT)

Time	Session
9:00 – 9:10	Introduction and Welcome
9:10 – 9:40	CCPP Programmatic Overview
9:40 – 11:00	CCPP Technical Overview
11:00 – 12:00	Lunch Break
12:00 – 1:00	Code Management and Testing Overview
1:00 – 2:00	CCPP SCM Overview and Walkthrough

Workshop Agenda

Wednesday, August 16 (All times are MT)

Time	Session
9:00 – 9:10	Discussion Group Introduction
9:10 – 11:00 Breakout A	Versioning schemes and tagging procedures, Schemes as git submodules, Organization/naming of CCPP Physics repo, Metadata/Standard name repository
9:10 – 11:00 Breakout B	Documentation issues, Support issues, Conflict resolution, Public Releases
11:00 – 12:00	Lunch Break
12:00 – 1:00	Aerosol/Chemistry Connections to CCPP
1:00 – 2:00	3D Physics

Workshop Agenda

Thursday, August 17 (All times are MT)

Time	Session
9:00 – 9:10	Discussion Group Introduction
9:10 – 11:00 Breakout A	CCPP-provided functionality to replace namelist variables that record which schemes are active, CCPP Framework-derived variable conversions, SDF-configured time coupling, Vertical coordinate interoperability
9:10 – 11:00 Breakout B	Better support for standardized physical constants, Supporting physics schemes beyond NWP scales, CCPP-provided function library, More general handling of horizontal grid issues like internal grid tiling (ocean, land, ice) and support for differing grids for different schemes
11:00 – 12:00	Lunch Break
12:00 – 12:45	GPU Support
12:45 – 1:15 Breakout A	UFS/NRL-specific Discussion
12:45– 1:15 Breakout B	NCAR-specific Discussion
1:15– 2:00	Wrap-up and Report Prep



Zoom Links

We will be recording sessions! Ask for the video links the week after the workshop since they will not be shared publicly.

Video consent link:

<https://docs.google.com/forms/d/e/1FAIpQLSfG1edJoicW2-eCJKPCqJ9N6rrj3lx-lc7GuYxRCMt3nBgM4g/viewform>

CCPP Main Session

Join Zoom Meeting

<https://ucar-edu.zoom.us/j/99337457132>

Meeting ID: 993 3745 7132

Passcode: #Main123

CCPP Breakout A

Join Zoom Meeting

<https://ucar-edu.zoom.us/j/96644475867>

Meeting ID: 966 4447 5867

Passcode: breakA123

CCPP Breakout B

Join Zoom Meeting

<https://ucar-edu.zoom.us/j/98677888203>

Meeting ID: 986 7788 8203

Passcode: breakB123