

<http://www.mmm.ucar.edu/wrf/users/>

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WRF MODEL USERS' PAGE

Welcome to the users' page for the Weather Research and Forecasting Model (here "WRF", for short). WRF is a state-of-the-art atmospheric modeling system designed for both meteorological research and numerical weather prediction. It offers a host of options for atmospheric processes and can run on a variety of computing platforms. WRF excels in a broad range of applications across scales ranging from tens of meters to thousands of kilometers, including the following.

- Meteorological studies
- Real-time NWP
- Idealized simulations
- Data assimilation
- Earth system model coupling
- Model training and educational support

The Mesoscale and Microscale Meteorology Laboratory (MMM) of NCAR supports the WRF system to the user community, maintains the WRF code, and oversees the release process. MMM provides the *wrfhelp* service, which provides user assistance and delivers WRF news. MMM also issues WRF releases, conducts WRF tutorials, and hosts the annual WRF Users' Workshop.

The WRF system is available via free download through these pages. In addition to providing the code and documentation for WRF system, this site provides information and links on WRF code contributions, releases, and events.

Related Systems and Information

There are a number of WRF-related systems and specialty capabilities with separate pages. Key ones are listed below, and users are directed to these for the system details.

- WRF Data Assimilation System: [WRFDA](#)
- WRF-Chem (WRF atmospheric chemistry model): [WRF-Chem](#)
- WRF-Hydro (WRF hydrological modeling system): [WRF-Hydro](#)

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WRF FORECAST



[WRF Real-Time Forecasting](#)

ANNOUNCEMENTS

2017 Winter WRF Users Tutorial
[Registration](#) is now open!

2016 WRF Users' Workshop
(June 2016): [Presentations](#).

[WRF Physics Survey Results](#).

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The Basic WRF Tutorial in Boulder, CO

❄️ ❄️ ❄️ *Winter, 2017: Jan 30 - Feb 3* ❄️ ❄️ ❄️



WRF Basic

WRF-ARW

Graphics

Feedback

Input Data

Daily Quiz

NCAR Supercomputers

Requesting NCAR Supercomputers

Click [here](#) to access the information page for graduate students, postdocs, and their advisors.

To access the request form, click [here](#).

A request for 50,000 core hours or less is fairly simple. We recommend requesting a small number (e.g., 1000 core hours). Once you receive access, do some testing of the model configuration (timing, processor counts, amount of data created that needs to be stored). Scale that up by the intended full size of the test, number of scenarios, etc. THEN send in that second value to CISL with the detailed explanation of resource requirements.

“ NCAR Supercomputer
Access
“ Yellowstone
“ Cheyenne

Miscellaneous Information

- “ Write to wrfhelp@ucar.edu for WRF related problems / feedback
- “ Participate in annual users' workshop (June)
- “ Share your knowledge with colleagues
- “ Please share your code with us!
- “ Tutorial Survey

*Good Luck
And
Happy
Computing!*

Thanks for coming to the Tutorial!!!