

WRF TUTORIAL WRAP-UP

Kelly Werner



Other WRF pages

- WRF-Chem
- WRF-Hydro
- WRF-Solar
- WRF-Urban

- wrf-news
- Workshop/Tutorial
- FAQ
- Best Practices

- WRF/WPS
- Post-processors
- Utilities
- Input Data
- Geog. Static Data

- WRF Users' Guide
- Technical Note
- Publications
- Physics References

- NCAR Graphics
- NCL
- CISL
- Other NCAR Sites

The screenshot shows the 'WRF MODEL USERS' PAGE' with a navigation bar at the top containing links: Home, Model System, User Support, Download, Doc / Pub, Physics, Support Forum, WRF Forecast, and Links. A search bar is located to the right of the navigation bar. The main content area is divided into several sections. On the left, there is a sidebar with links: WRF General Information, Public Domain Notice, WRF User Support, Download WRF, WRF Version 4 User's Guide, and How to Cite WRF. The main content area starts with a welcome message: '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.' This is followed by a list of applications: Meteorological studies, Real-time NWP, Idealized simulations, Data assimilation, Earth system model coupling, and Model training and educational support. Below this list, there is a section titled 'Related Systems and Information' which is partially visible. On the right side of the page, there is a 'WRF FORECAST' section with a map of the United States showing weather patterns, and an 'ANNOUNCEMENTS' section with a link to 'Presentations from the Joint WRF & MPAS-A Users' Workshop, June 2023.' and a link to 'General Notes on Compiling and Running on Cheyenne.' and 'Frequently Asked Questions'.

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

WRF Users' Forum

WRF FORECAST

ANNOUNCEMENTS

Presentations from the Joint WRF & MPAS-A Users' Workshop, June 2023.




General Notes on Compiling and Running on Cheyenne.

Frequently Asked Questions

LECTURES

Lectures can be accessed from the following:

- “Lectures” page
- Agenda



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Basic WRF Tutorial Agenda

- Agenda
- Lectures
- Code of Conduct
- Derecho HPC
- Practice Exercises
- Quick Links

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Start / Basic WRF Tutorial Agenda

Basic WRF Tutorial Agenda

Tutorial Dates: 3-7 February, 2025

Note

All times in the below agenda are in U.S. Mountain Standard Time (MST).

Monday

February 3

Time	Lecture	Instructor
9:00	Welcome Remarks	Joe Klemp
9:15	Instructor and Student Introductions	
9:45	WRF Modeling System Overview (video)	Wei Wang
10:15	WPS Overview (video)	Michael Duda
10:45	Break	
11:05	Program Real (video)	Wei Wang
11:25	Running WPS and WRF (video1) (video2)	Kelly Werner
12:00	Break	
1:00	Practice Instructions	Kelly Werner
	<i>Live Practice Session</i>	
2:15	Break	
2:35 - 3:30	<i>Live Practice Session</i>	



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Tutorial Lectures

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Tutorial Lectures

Live lectures are presented each morning during the tutorial. Because the following the tutorial, the .pdf versions of these lectures will be available. Presentations are available from the [YouTube WRF Tutorial playlist](#). Use about the recorded presentations.

Note

The YouTube presentations were recorded in January 2021, but the p

Lecture pdfs

- .pdf format of the lectures can be accessed using the links below:
- [WRF Modeling System Overview](#)
 - [WPS Overview](#)
 - [Program Real](#)
 - [Running WPS and WRF](#)
 - [Practice Instructions](#)
 - [Overview of WRF Physics \(*Part 1*\)](#)
 - [Introduction to Nesting](#)
 - [Compiling WRF and WPS](#)
 - [Overview of Physics \(*Part 2*\)](#)
 - [WRF Dynamics](#)
 - [WRF-Python Post-processing Tool](#)
 - [VAPOR Post-processing Tool](#)
 - [Idealized Cases](#)
 - [Advanced Usage of the WPS](#)
 - [Other Runtime Options](#)
 - [WRF Computation](#)
 - [Best Practices](#)
 - [Verification of WRF Simulations](#)

MISCELLANEOUS INFORMATION

- You will have access to the Derecho HPC through February 28th!
- Tutorial website will remain open *forever*

After-tutorial email:

- Survey
- Certificates
- Zoom chat history and transcripts

****Expect email next week****

WRF Users' Forum

- Search for previously-resolved issues
- Share your knowledge

Participate in annual users' workshop (Summer 2025)

Upcoming MPAS Tutorial:

- 7-9 April (Virtual): [Additional information](#)

GOOD LUCK & HAPPY COMPUTING!

*Thank you for attending
the WRF Tutorial!*

