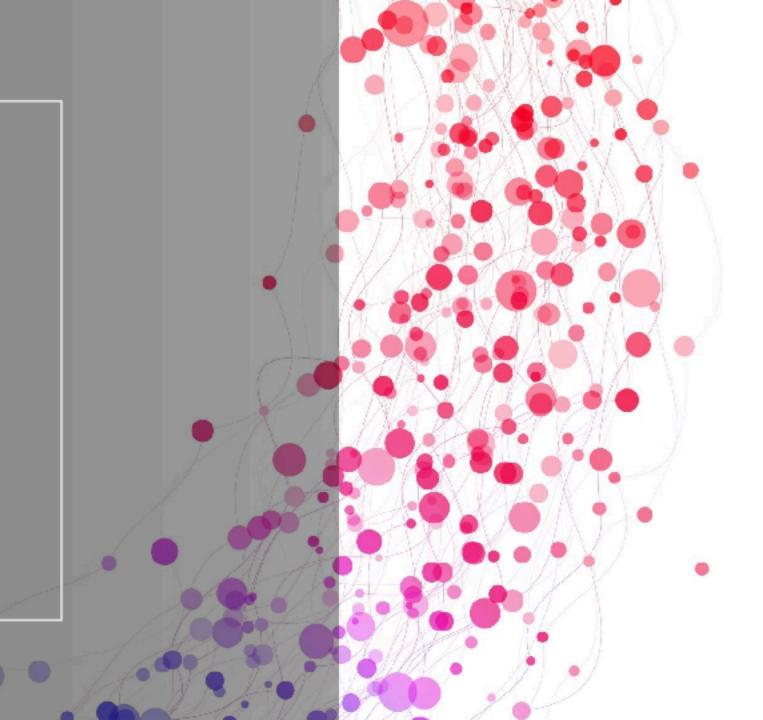
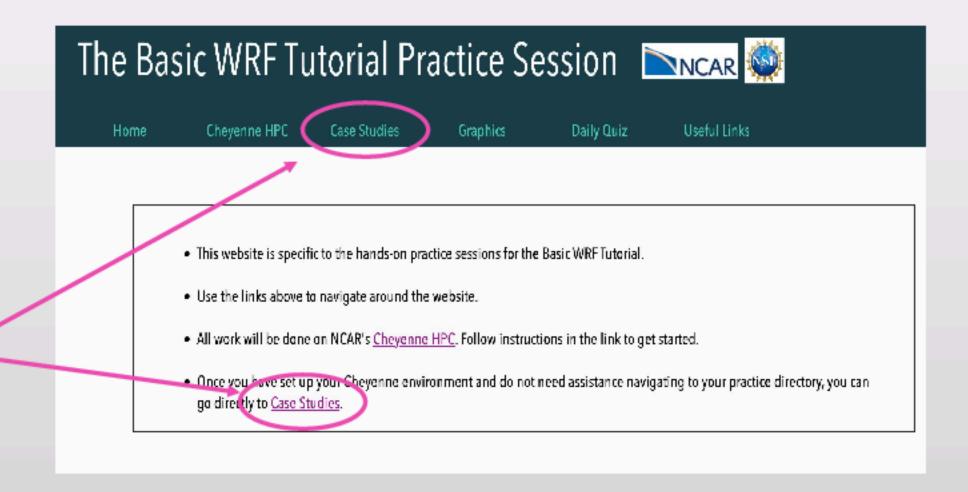
PRACTICE INST_{Confi} Gurel and S Run WPS & WRF Using a Single Domain



TUTORIAL PRACTICE WEBSITE

<u>www2.mmm.ucar.edu/wrf/OnLineTutorial/tutorial_practice_in-person/in</u>



Begin Exercises : Case Studies

PRACTICE CASES

Important! Read the notes!



Run WRF Case Studies

Important Notes - Please read!

- Complete the Initial Exercise, and then the Single Domain Case before moving on to others.
- The principle is an estimate of difficulty.
- There is no expectation that you must complete all the cases. Experiment with cases you are more likely to use in your rese
- Once you are more comfortable running cases, try setting up your own domain, or play with different physical options (tut
 can place a domain anywhere in the world).
- All code has been precompiled to save time. If you want to experiment with compiling the code, there is a separate exercise other exercises please use the pre-compiled code.
- You may find it handy to have a copy of the latest version of the WRF-ARW User's Guide open on your desktop.
- You will need the output files from some cases (e.g., the Single Domain case) for future exercises. Please f
 those files before starting each new exercise.

Standard Practice Cases

We recommend starting with these cases. Below you can see the difficulty rating and the suggested day to try each one.

Initial Exercise 🏫 🏠 (Monday)

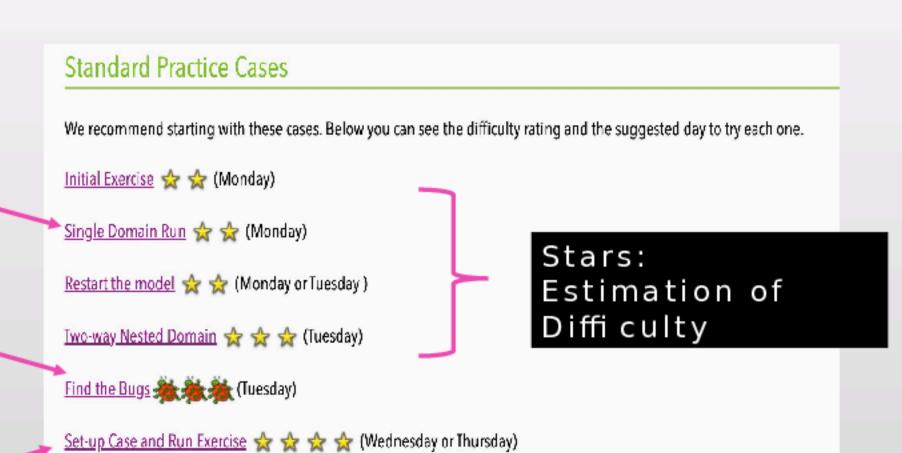
Single Domain Run 🏚 🏚 (Monday)

STANDARD PRACTICE CASES

Once you've completed the Initial Exercise, complete the Single Domain Run

Find the bugs

Set-up and Run Your Own Case



Cases with Specific Options

Case Name	Difficulty Rating
Idealized cases	☆ ☆ ☆
Setting up WRF for Climate Simulations	☆ ☆ ☆
Vortex Following Case	☆ ☆ ☆ ☆
Compute a diagnostic variable	☆ ☆ ☆ ☆ ☆
Increasing Frequency of WRF Output Variables	☆ ☆ ☆
Output Additional Variables in History Files	☆ ☆ ☆
Output Time Series Data at Station Locations	☆ ☆ ☆
Running with Adaptive Time Step	☆ ☆ ☆
Spectral Nudging	☆ ☆ ☆
One-way nested run using ndown	☆ ☆ ☆ ☆

Compile Code

WRF & WPS for Real Data Cases

WRF for Idealized Cases

The Basic WRF Tutorial Practice Session NCAR



Useful Links Cheyenne HPC Daily Quiz Home Case Studies Graphics WRF Users' Guide Namelist Best Practices WRF Flow Chart **Tutorial Presentations** UNIX Commands This website is specific to the hands-on practice sessions for the Basic WRF Tutorial. Input & Output Data NCAR Supercomputers Healtha links above to navigate around the website

- WRF Users' Guide
- Recorded tutorial presentations
- UNIX commands
- Input & output data
- Access to Cheyenne from your home institution

USEFUL LINKS

Home Cheyenne HPC Case Studies Graphics Daily Quiz Useful Links



DAILY QUIZ

Daily Quiz

After the lectures have been completed for each day, there will be a quiz available. The quizzes are fairly short, and are basically a way for us to determine if you grasped the key components from the lectures through the day. Please complete these quizzes each day. Once you submit your answers, you will be given your results, with an explanation for the correct answer to each one. If you have any questions about them, please let us know. The answers will all be confidential. We will only get results in total numbers.

Monday: Click here to access daily quiz.

Tuesday: Click here to access daily quiz.

Wednesday: Click here to access daily quiz.

Thursday: Click here to access daily quiz.

Friday: Click here to access daily quiz.

NOTES

 Refer to the Users' Guide and tutorial lectures during practices and quizzes.

Instructors are available for questions.

Pay attention to wiring in the classroom.

HAVE FUN!!

QUESTIONS?

