USER SUPPORT UPDATE

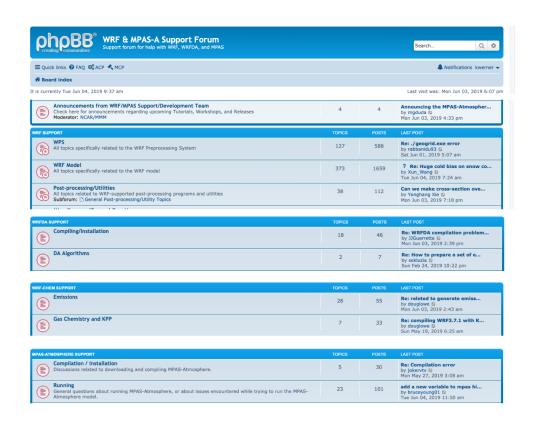
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WRF & MPAS-A SUPPORT FORUM INFORMATION



http://forum.mmm.ucar.edu/

- Questions for WPS, WRF, MPAS-A, WRFDA, WRF-Chem
- Announcements from us
- Bug Reports
- Code Contribution/Development
- (WRF/WPS) FAQ
- Job/Position Opportunities, Conferences/Meetings
- Forum Feedback

FORUM UPDATE (OCT – CURRENT)

- Total User Posts: ~1900
- Total Topics: ~775
- Total Members: 1598
- Increase in user contribution to support
- Forum provides users with related, previously-answered questions (50+ topics)
- 54% decrease in monthly average number of questions (WRF/WPS only)
 - From ~350 inquiries/mo to ~160 inquiries/mo
 - Related to searchability? Public platform encourages users to think/search harder before asking?

WRF/MPAS-A SUPPORT FORUM: BEST PRACTICES

- Before posting, search for related topics to see if the question has previously been answered/resolved
- Post separate topics for separate questions
- Provide model version, and attach namelists, simulation log files (e.g., rsl.out.0000 and rsl.error.0000), and any other helpful/relevant files when posting an inquiry
 - Cloud server for large files
- Post any issue related to using the model on the Forum (not on GitHub)

Any questions, comments or suggestions?

If you have utilized the forum, do you have feedback to provide?

CODE REPOSITORIES ON GITHUB

MPAS already public on GitHub

WRF (including DA, Chem and WPS) became public on GitHub last fall

Code releases done through GitHub

RELEASE STRATEGY - WRF

Major releases once a year

- Includes all new development, modifications, & improvements since previous major release
- Includes all bug-fixes since previous release (likely a bug-fix release)

Bug-fix releases multiple times a year

- Will be released when enough bug fixes are applied, or if a major bug fix is found/corrected
- ONLY includes bug-fixes
- Not necessary to update your code unless the new bug fixes are specific to your application

RELEASE STRATEGY - MPAS

Major releases

- No fixed schedule
- Contains new features
- Coordinated with other collaborators

Bug-fix releases

- No fixed schedule
- Soon after bug fixes become available

OBTAINING CODE FROM GITHUB

- *No GitHub account necessary*
- tar files available from GitHub Release page
 - Located under release notes for that version
- Clone (making a local copy) code from GitHub
 - Will need to have 'git' on your system
 - We do not support code on development branch
 - Cloned code allows one to see history of commits
 - Must be used for code development and contributions

GITHUB SUPPORT RESOURCES

- Links to GitHub Release Pages (includes release notes):
 - WRF: https://github.com/wrf-model/WRF/releases
 - WPS: https://github.com/wrf-model/WPS/releases
 - MPAS: https://github.com/MPAS-Dev/MPAS-Model/releases
- WRF Available Wiki Pages (https://github.com/wrf-model/WRF/wiki):
 - Known Problems
 - Documentation/Websites (Users' Guide, Online Tutorial, Tech Note, Best Practices, etc.)
 - Useful Git resources
- MPAS Available Wiki Pages (https://github.com/MPAS-Dev/MPAS-Model/wiki)
 - Users Mailing Lists
 - Useful Git Resources

QUESTIONS TO AUDIENCE/USERS

■ Do you have suggestions for improvement for either the forum or the release process for GitHub?

Do you have feedback on more frequent releases for WRF?

Any other comments, suggestions?

WRF & MPAS CODE CONTRIBUTION REQUIREMENTS

- i) Code must adhere to stated coding standards
- ii) Code must be thoroughly tested by developer
- iii) Code must be offered through a GitHub pull request (PR)
- iv) Developers are responsible for supporting their contributed codes
- v) New physics: Review by WRF Physics Review Panel
- vi) Documentation required for accepted code

Information for Code Contributors:

http://www2.mmm.ucar.edu/wrf/users/contrib_info.php

COMMON PHYSICS DEVELOPMENT EFFORTS

- WRF and MPAS have shared physics set under development:
 MPAS mesoscale reference suite/WRF tropical suite
- Common Physics Framework (CPF)
 - CPF: NCAR-developed capability to enable physics package use across models
 - CPF based on Community Common Physics Package (CCPP), a NOAA-led effort
 - CPF would support full physics sharing between WRF and MPAS and would be part of SIMA (System for Integrated Modeling of the Atmosphere)

PHYSICS DEVELOPMENT QUESTIONS

PHYSICS DEVELOPMENT

- Community thoughts on physics suites?
 - Currently 2 official WRF suites:
 Convection-permitting
 Tropical
 - Any groups contemplating offering and supporting new suites?
- Common Physics Framework (CPF)
 - Beside the current suites, what physics packages in particular should be made CPF compliant?