

Foreword: A note to METplus users

This user's guide is provided as an aid to users of the Model Evaluation Tools (MET). MET is a set of verification tools developed by the Developmental Testbed Center (DTC) for use by the numerical weather prediction community - and especially users and developers of the Weather Research and Forecasting (WRF) model - to help them assess and evaluate the performance of numerical weather predictions.

It is important to note here that MET is an evolving software package. Previous releases of MET have occurred each year since 2008. This documentation describes the 7.0 release from March 2018. Intermediate releases may include bug fixes. MET is also be able to accept new modules contributed by the community. If you have code you would like to contribute, we will gladly consider your contribution. Please send email to: `met_help@ucar.edu`. We will then determine the maturity of new verification method and coordinate the inclusion of the new module in a future version.

This User's Guide was prepared by the developers of the MET, including Tressa Fowler, John Halley Gotway, Randy Bullock, Kathryn Newman, Julie Prestopnik, Lisa Goodrich, Tara Jensen, Barbara Brown, Howard Soh, Tatiana Burek, Minna Win-Gildenmeister, George McCabe, Paul Prestopnik, Eric Gilleland, Nancy Rehak, Paul Oldenburg, Anne Holmes, Lacey Holland, David Ahijevych and Bonny Strong.

New for METplus v2.0

METplus v2.0 includes some new wrappers:

- `pb2nc_wrapper`
 - Python wrapper to the MET tool `pb2nc`
- `point_stat_wrapper`
 - Python wrapper to the MET tool `point_stat`

Enhancements, refactorization, and bug fixes have been addressed in the following wrappers:

- `tc_stat_wrapper`

- can now be run stand-alone
- `tc_pairs_wrapper`
 - can now read ATCF input file formats
 - support for numerous input file naming conventions
 - support for input data organized into one directory or subdirectories with date information in the name
- `cyclone_plotter_wrapper`
 - replaced the dependency on Basemap toolkits (which are unstable on some platforms) with Cartopy for map rendering
- `tcmpr_plotter_wrapper`
 - now supports whitespace in plot title, sub-title, and legend

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