



Contribution ID: 32

Type: **Talk (15min + 5min)**

PostWRF: Interactive tools for the visualization of the WRF and ERA5 model outputs

Thursday, March 7, 2024 11:20 AM (20 minutes)

PostWRF is an open-source software toolkit to facilitate the main visualization tasks and data handling for the Weather Research and Forecasting (WRF) model outputs. The toolkit is mostly written in NCL and Shell, with a namelist that resembles the WRF or WPS namelists. Besides the visualizations, PostWRF provides WRF-NetCDF to GeoTIFF conversion for GIS applications, ERA5-NetCDF reanalysis data plotting and extraction. The primary purpose of PostWRF is to benefit the environmental researchers (both experienced and inexperienced) to make use of the WRF model simulations, in a straightforward and efficient way, without dealing with coding and syntax errors. Since the WRF model simulates most aspects of a full atmospheric model in the regional scale, the toolkit can also be used as an educational aid in meteorological and environmental science. PostWRF is available on GitHub (<https://github.com/anikfal/PostWRF>), provided with HTML documentations (<https://postwrf.readthedocs.io/en/master>) and guided examples.

Slot length

Workshop (1h)

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Session Classification: Analysis and Visualization

Track Classification: Research Software: Research Software for Science