WRF

Purpose: Climate Sciences
Latest version: 4.0.3
Licence: ✅ Free of use
Public domain _ext-link
Website: *https://www2.mmm.ucar.edu/wrf/ _ext-link*

The **Weather Research & Forecasting Model** (WRF) is a next-generation numerical mesoscale weather prediction system designed for atmospheric operational research and prediction needs. It has two dynamic cores, a data assimilation system, and a software architecture that facilitates parallel calculation and system extensibility. The model serves a wide range of meteorological applications through scales of tens of meters to thousands of kilometers.

WRF can generate atmospheric simulations using real data (observations, analysis) or idealized conditions.