Plan Overview

A Data Management Plan created using DMPTool-Stage

Title: mPING HMT Proposal

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Template: NOAA Data Sharing Template

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mPING HMT Proposal

Model output from the RAP, HRRR, NAM, and GFS forecast models at 1-3 h intervals in the native model resolution

mPING Observations

Profiles of Tw, T, U, V, p, geopotential, height

Predictors derived from the NWP model output

mPINGdata are available immediately based in the procedures outlined in https://mping.ou.edu/

Data archived in the 200 TB database, and the predictors associated with each mPING observation will be made available July 2020.

mPING data are available in JSON, GeoJSON, XML and ASCII formats

Predictors matched to mPING observations will be available in ASCII format

Archived NWP output data will be available in GRIB2 (native) format

Data will be made available from NSSL and kept at NSSL on a 200 TB RAID system

NWP model data will be preserved for at least 5 y beyond the life of the project

All associated details about data format and any associated metadata will be kept in concert with the data itself

Articles will be published in archive journals

Data will be made available via direct request to the project PIs

Data access will likely be through an API similar to that for mPING (http://mping.ou.edu)

These environmental data have not been formally disseminated by NOAA, and do not represent and should not be construed to represent any agency determination, view, or policy.

Elmore, K. L., H. M. Grams, D. Apps, H. D. Reeves, 2015: Verifying forecast precipitation type with mPING. *Wea. and Forecasting,* **30,** 656–667.

Reeves, H. D., K. L. Elmore, A. Ryzhkon, T. Schuur, J. Krause, 2014: Sources of uncertainty in precipitation-yype forecasting. *Wea. and Forecasting,* **29,** 936–953.

Elmore, K. L., Z. L. Flamig, V. Laksmanan, B. T. Kaney, V. Farmer, H. D. Reeves, L. P. Rothfusz, 2014: mPING: Crowd-sourcing weatherreports for research. Bull. Amer. Meteor. Soc., 95, 1335–1342.