
mPING HMT Proposal

A Data management plan created using the DMPTool

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Type of data and information created

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

Expected schedule for data sharing

mPING data 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.

Standards for format and content

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

Policies for stewardship and preservation

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

Procedures for providing access

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.

Previous published data

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-type 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.