

AERMET

Things To Think About

- User's Guide
- Two executables
- International
- Use of ASOS data
- Stable boundary layer
- New test cases
- Training
- Profiling algorithms
- FAQs
- Radar profilers
- Sodar
- Sonics
- Use of gridded data
- Surface characteristics
- Bulk Richardson

Running AERMET with Gridded Model Output Data

We are looking at a number of possibilities. MM5 is at the top of our list. Products from the National Center for Environmental Prediction (NCEP) are also being considered – these include the RUC, ETA, and WRF gridded output. You will hear more about these later in the workshop.

Something to think about: The focus of the NCEP models is forecasting. Consequently, they are likely to be more concerned with getting things ‘right’ at the top of the boundary layer than with the details of the boundary layer itself.

Surface Characteristics

- Roughness Length
- Albedo
- Bowen ratio
- Soil moisture
- Soil texture
- Leaf area index

REPRESENTATIVENESS

Representativeness is defined as the extent to which a set of measurements taken in a space-time domain reflects the actual conditions in the same or different space-time domain taken on a scale appropriate for a specific application.

For use in air quality modeling applications, meteorological data should be representative of conditions affecting the transport and dispersion of pollutants in the area of interest as determined by the locations of the sources and receptors being modeled.