

# Use of Gridded Met in Dispersion Models

9<sup>th</sup> Conference on Air Quality Modeling  
Research Triangle Park, NC  
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# Second Essential Element

*“Promote and facilitate the use of gridded meteorological data including “state-of-practice” National Weather Service (NWS) meteorological analyses to improve modeling science and performance for near-field modeling applications (permits, toxics, direct PM).” – Tyler Fox, 8<sup>th</sup> Conference on Air Quality Modeling, September 22, 2005.*

# What Has Happened In the Interim?

- OAQPS formed a gridded meteorological workgroup in 2005 to discuss sources and various uses of gridded meteorology in dispersion modeling.
- EPA development of MM5-to-AERMOD tool in 2006.
- EPA (Touma, Isakov, Brode, Cimorelli, & Anderson) publish MM5-AERMOD Philadelphia Study in 2007.
- UNC development of MCIP-to-AERMOD prototype in 2007-2008.
- EPA development of MM5-to-CALPUFF prototype in 2008.

# Where Do We Go from Here?

- Complete development of software and documentation for gridded meteorological data conversion tools.
- Develop testing protocols gridded met products in dispersion models.
- Development of guidance on the application of gridded meteorological products in dispersion modeling applications.