Bridgers, George

From: Bridgers, George
Sent: Thursday, January 23, 2014 5:10 PM
To: Bohnenkamp, Carol; Bohning, Scott; cimorelli, alan; Coulter, Annamaria; Dahl, Donald; Daye, Richard; Feldman, Michael; Gillam, Rick; Hawkins, Andy; Hennessey, Brian; Holladay, Cleveland; Johnson, Brenda C.; Kay, Rynda; Krivo, Stan; Leon-Guerrero, Tim; Matichuk, Rebecca; McCahill, Brendan; Mohr, Ashley; Monteith, Richard; Nguyen, Phuong; Persoon, Carolyn; Portanova, Mary; Robinson, Randall; schmidt, howard; Snyder, Erik; Tonnesen, Gail; Vallano, Dena; Wagner, Jaime; Wiley, Adina; Wong, Herman; Worstell, Aaron
Cc: 'baanderson02@fs.fed.us'; 'Chuck Buckler'; 'cnicholl@blm.gov'; Deroeck, Dan; 'eaumann@blm.gov'; Hawes, Todd; 'Jill_Webster@fws.gov'; 'john_notar@nps.gov'; Keller, Peter; Montanez, Jessica; 'rgraw@fs.fed.us'; 'Tim_Allen@fws.gov'; Timin, Brian; Baker, Thomas; Brode, Roger; Fox, Tyler; Owen, Chris; Thurman, James
Subject: Important statements concerning the recent AERMET and AERMOD (dated 13350) releases

Regional Office Dispersion Modeling Contacts and Federal Partner Agencies,

Several issues with the recent updates to AERMET and AERMOD (dated 13350) have been identified and are currently being corrected. This includes errors in AERMET associated with the new options to substitute for missing cloud cover (CCVR) data which may result in substituted cloud cover values greater than 10 for hour 24, with 'NaN' (not a number) for some calculated variables. Issues with CCVR substitutions may also occur for applications using ONSITE meteorological only, with net radiation or insolation (solar radiation) and delta-T data used with the Bulk Richardson Number (BULKRN) option. In these cases AERMET calculates equivalent cloud cover values that are included in the surface output file and no substitutions for missing values should be included. Based on comments received we are also modifying AERMET to allow the user to disable substitutions for missing CCVR and/or TEMP data for hours 23 and 24 that are based on persistence. Additionally, the AERMOD update will address issues associated with the new ARM (Ambient Ratio Method) option for NO2 modeling for annual averages.

We briefly discussed these issues during the AERMOD Modeling System Update Webinar on January 14th. It was our desire then and continues to be our desire now to have a revised release of AERMET and AERMOD as quickly as possible. To this end, we are targeting the first half of next week as likely point that we can the new releases posted on SCRAM barring any additional issues being brought to our attention.

Please feel free to share this information with your respective State, local, and tribal air permitting agencies and colleagues, as appropriate. Any questions or additional feedback can be direct back to Roger Brode and me.

Sincerely,
George

George M. Bridgers, CPM, Environmental Scientist
U.S. Environmental Protection Agency
Office of Air Quality Planning and Standards
AQAD - Air Quality Modeling Group
109 TW Alexander Drive
Room C431B - Mail Drop C439-01
Research Triangle Park, NC 27711
Phone: 919-541-5563
Fax: 919-541-0044