

**Emission Updates for May 1 – September 31, 2013 for Continental United States (CONUS) Operational and Experimental Domains, and Alaska and Hawaii operational domains.**

Beginning with May 1, 2013, NAQFC operational and experimental predictions of ozone, and developmental predictions of fine particulate matter over the Continental United States (U.S.), Alaska, and Hawaii reuse the mobile and area emission data from the 2012 NAQFC predictions with a time-stamp change adjustment. The time-stamp change maps each Julian day in 2013 to the nearest Julian day in 2012 that matches by day-of-the-week. It means that the day-of-the-week alignment is assured. For an example, emission data for Wednesday, May 1<sup>st</sup> of 2013 reuse emissions for May 2<sup>nd</sup> of 2012 since the latter has the nearest Julian day value to the former and was also a Wednesday. This mapping does not consider emission factor adjustments for holiday or pre-holiday, or changes in emission factors in the month-to-month transitions. For point sources of the various domains, direct reuse of the 2012 emission data for the corresponding domains was implemented. This reuse of emissions, which is unlike previous years' efforts to update many of the individual emissions as well as detailed temporal and spatial allocations of emission inventories, may reduce accuracy of ozone and particulate matter predictions. The one exception is biogenic emission. It is generated in-line accurately reflecting the forecast meteorology through the module Biogenic Emission Inventory System (BEIS) version 3.13.