

Some AIRPACT-4 Status Update

June, 2013

AIRPACT-4 vs AIRPACT-3

	AIRPACT-3	AIRPACT-4
Grid cells	95x95 12-km grid cells	285x258 4-km grid cells
Vertical Layers	21 layers	21 layers
MCIP	v3.3	v3.6
SMOKE	v2.1 (LAYPOINT v2.4)	v2.7
CMAQ	v4.6	v4.7.1 updated according to Carlton et al, ES&T 2010.
Mass adjustment (CMAQ)	denrate	yamo
Non-mobile Anthropogenic Emissions	2005 from Ecology, IDEQ, ODEQ	2007 from Ecology, IDEQ, ODEQ
Mobile Emissions	MOBILE6	MOBILE6, evaluating MOVES
Fire Emissions	None	SMARTFirev1/BlueSky
Biogenic Emissions	BEIS-3	MEGAN v2.1
Boundary Conditions	MOPITT CO Assimilated MOZART-4 forecast from Louisa Emmons of NCAR	
CMAQ run time	8 processors on breezy	48 processor on aeolus
	3.5 hours for 64-hour forecast	2-3 hours for 24-hour forecast

AIRPACT-4 Operation

- Semi-operational since Feb 10, 2012 (no graphics)
- CMAQ run and graphics operational since May 30, 2012
- Graphics available on the web from May 1, 2012 onward
 - <http://lar.wsu.edu/airpact/gmap/ap4.html>
- EPA mirror operation has been running since April 20, 2013
- Fire emissions incorporated on June 1, 2013
- Currently evaluating MOVES

AIRPACT-4 Operation Timing

Optimal Performance:

