

Atmospheric process	WRF-Chem option
Microphysics	Morrison double-moment
Radiation	RRTMG for both shortwave and longwave
Land surface	CLM4 with SNICAR included
Planetary boundary layer	YSU
Cumulus	No cumulus scheme used
Chemical driver	CBM-Z
Aerosol driver	MOSAIC 4-bin
Anthropogenic emission	NEI05
Biogenic emission	MEGAN
Biomass burning emission	GFEDV2.1
Dust emission	DUSTRAN
Meteorological initial and boundary conditions	ERA-Interim
Chemical initial and boundary conditions	MOZART-4 divided by 2