Preprocessing Step 2a Preprocessing Step 1 input_diagfi.nc WPS GEOG > time series of winds, temperature, tracers > topography, thermal inertia, albedo > global domain > global domain > GCM vertical levels create_readmeteo.exe geogrid.exe readmeteo.exe LMD:2024-07-01_06:00:00 geo_em.d01.nc > winds, temperature, tracers at a given date > topography, thermal inertia, albedo > global domain > regional projected domain > GCM vertical levels Preprocessing Step 2b metgrid.exe met em.d01.2024-07-01 06:00:00.nc > topography, thermal inertia, albedo > winds, temperature, tracers at a given date > regional projected domain > GCM vertical levels Preprocessing S real.exe

wrfbdy_d01

> topography, thermal inertia, albedo > winds, temperature, tracers at all simulation steps > boundaries only

> mesoscale vertical levels

wrfinput_d01

- > topography, thermal inertia, albedo
- > winds, temperature, tracers at starting time
 - > regional projected domain > mesoscale vertical levels