```
&time_control
run_days                            = 0,
run_hours                           = 0,
run_minutes                         = 0,
run_seconds                         = 0,
start_year                          = 2019, 2019, 2019,
start_month                         = 07, 07, 07,
start_day                           = 02, 02, 02,
start_hour                          = 00, 00, 00,
end_year                            = 2019, 2019, 2019,
end_month                           = 07, 07, 07,
end_day                             = 04, 04, 04,
end_hour                            = 00, 00, 00,
interval_seconds                    = 10800
input_from_file                     = .true.,.true.,.true.,
history_interval                    = 60, 60, 30,
history_outname                     = 'wrfout_d<domain>_<date>'
frames_per_outfile                  = 1, 1, 1,
restart                             = .false.,
restart_interval                    = 360,
io_form_history                     = 2
io_form_restart                     = 2
io_form_input                       = 2
io_form_boundary                    = 2
/

&domains
time_step                           = 45,
time_step_fract_num                 = 0,
time_step_fract_den                 = 1,
max_dom                             = 3,
e_we                                = 253, 253, 253
e_sn                                = 253, 253, 253
e_vert                              = 50, 50, 50,
p_top_requested                     = 5000,
num_metgrid_levels                  = 34,
num_metgrid_soil_levels             = 4,
dx                                  = 9000,
dy                                  = 9000,
grid_id                             = 1, 2, 3,
parent_id                           = 0, 1, 2,
i_parent_start                      = 1, 86, 86
j_parent_start                      = 1, 86, 86
parent_grid_ratio                   = 1, 3, 3,
parent_time_step_ratio              = 1, 3, 3,
feedback                            = 1,
smooth_option                       = 1
/

&physics
```

```
! physics_suite                     = 'CONUS'
 mp_physics                         = 8,      8,      8,
 ra_lw_physics                      = 4,      4,      4,
 ra_sw_physics                      = 4,      4,      4,
 radt                               = 1,      1,      1,
 sf_sfclay_physics                  = 1,      1,      1,
 sf_surface_physics                 = 2,      2,      2,
 bl_pbl_physics                     = 1,      1,      1,
 bldt                               = 0,      0,      0,
 cu_physics                         = 5,      0,      0,
 cudt                               = 0,      0,      0,
 !isfflx                             = 1,
 !ifsnow                             = 1,
 icloud                             = 0,
 surface_input_source               = 1,
 num_soil_layers                    = 4,
 num_land_cat                       = 21,
 sf_urban_physics                   = 0,      0,      0,
 ra_sw_eclipse                      = 1,
 /

 &fdda
 /

 &dynamics
 w_damping                          = 0,
 diff_opt                           = 1,      1,      1,
 km_opt                             = 4,      4,      4,
 diff_6th_opt                       = 0,      0,      0,
 diff_6th_factor                    = 0.12,   0.12,   0.12,
 base_temp                          = 290.
 damp_opt                           = 0,
 zdamp                              = 5000.,  5000.,  5000.,
 dampcoef                           = 0.2,    0.2,    0.2
 khdif                              = 0,      0,      0,
 kvdif                              = 0,      0,      0,
 non_hydrostatic                    = .true., .true., .true.,
 moist_adv_opt                      = 1,      1,      1,
 scalar_adv_opt                     = 1,      1,      1,
 gwd_opt                            = 1,
 /

 &bdy_control
 spec_bdy_width                     = 5,
 spec_zone                          = 1,
 relax_zone                         = 4,
 specified                          = .true., .false.,.false.,
 /

 &grib2
```

```
/

&namelist_quilt
nio_tasks_per_group = 0,
nio_groups = 1,
/
```