冰雹轨迹图

᧰ 整体轨迹图

整体轨迹图

轨迹分为四组，冰雹半径最大为1.12cm

轨迹一(A)

轨迹一A方位图

轨迹一A细节图

轨迹一(B)

轨迹一B方位图

轨迹一B细节图

轨迹二

轨迹二方位图

轨迹二细节图

轨迹三

轨迹三方位图

轨迹三细节图

轨迹四

0-0.2cm	0.4-0.6cm	0.8-1.0cm
0.2-0.4cm	0.6-0.8cm	1.0-1.2cm

轨迹四方位图　　　　　　　　　　　轨迹四细节图
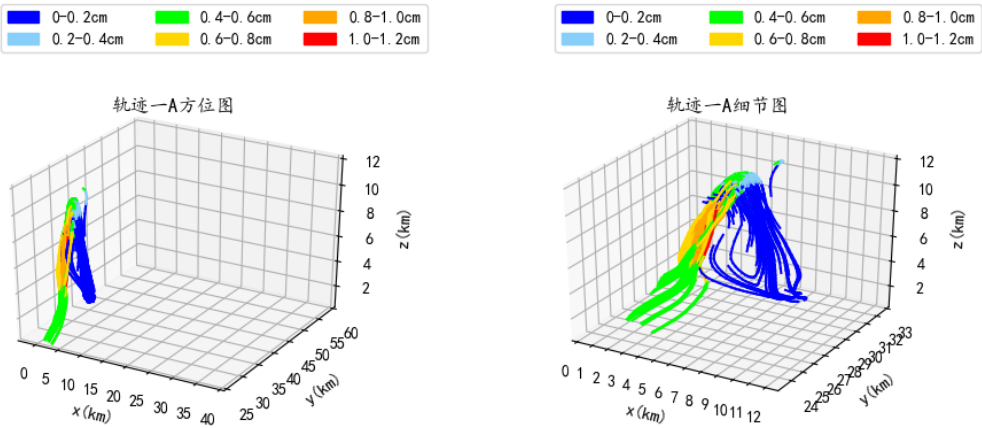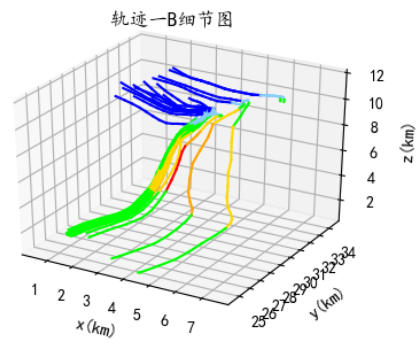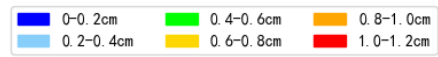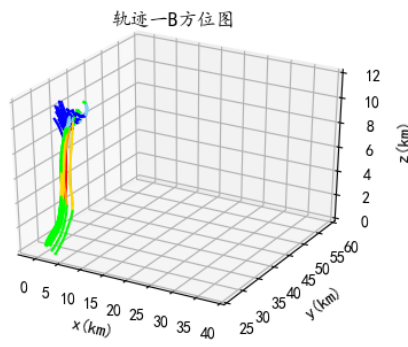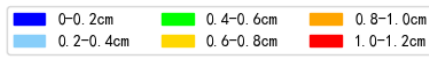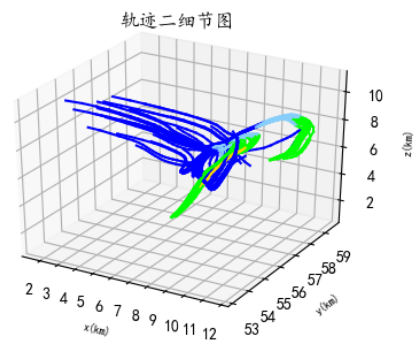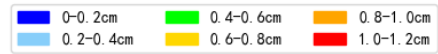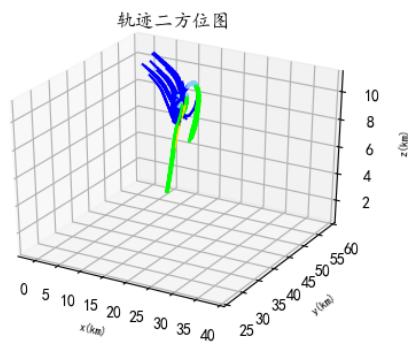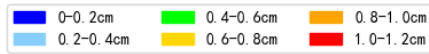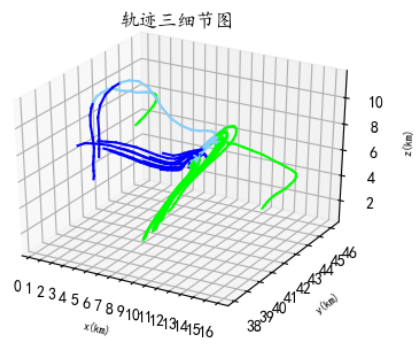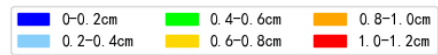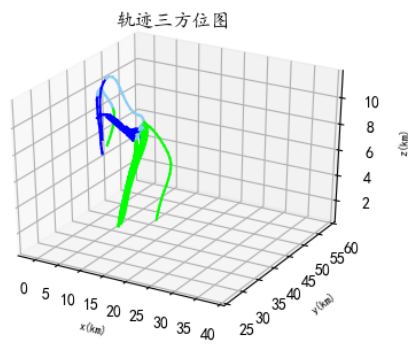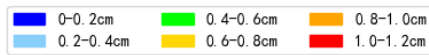
湖北个例情况

　　模拟时间为2016年6月30日，00时至12时，微物理方案调整为WDM6方案(16)，时间步长为2。由于积分时间步长较短，超过Regular队列最大运算时间，作业被中断，目前输出文件积分时长超过6小时如下图。

```
13 Timing for main: time 2016-06-30_07:11:47 on domain   2:    0.82213 elapsed seconds
12 Timing for main: time 2016-06-30_07:11:48 on domain   2:    0.82424 elapsed seconds
11 Timing for main: time 2016-06-30_07:11:48 on domain   1:    3.16516 elapsed seconds
10 Timing for main: time 2016-06-30_07:11:48 on domain   2:    0.82227 elapsed seconds
 9 Timing for main: time 2016-06-30_07:11:49 on domain   2:    0.82205 elapsed seconds
 8 Timing for main: time 2016-06-30_07:11:50 on domain   2:    0.82131 elapsed seconds
 7 Timing for main: time 2016-06-30_07:11:50 on domain   1:    3.18469 elapsed seconds
 6 Timing for main: time 2016-06-30_07:11:50 on domain   2:    0.82203 elapsed seconds
 5 Timing for main: time 2016-06-30_07:11:51 on domain   2:    0.82164 elapsed seconds
 4 Timing for main: time 2016-06-30_07:11:52 on domain   2:    0.82308 elapsed seconds
 3 Timing for main: time 2016-06-30_07:11:52 on domain   1:    3.21025 elapsed seconds
 2 Timing for main: time 2016-06-30_07:11:52 on domain   2:    0.82282 elapsed seconds
 1 Timing for main: time 2016-06-30_07:11:53 on domain   2:    0.82143 elapsed seconds
51914 Timing for main: time 2016-06-30_07:11:54 on domain   2:    0.82300 elapsed seconds
 1 Timing for main: time 2016-06-30_07:11:54 on domain   1:    3.17423 elapsed seconds
 2 Timing for main: time 2016-06-30_07:11:54 on domain   2:    0.82204 elapsed seconds
 3 Timing for main: time 2016-06-30_07:11:55 on domain   2:    0.82513 elapsed seconds
 4 Timing for main: time 2016-06-30_07:11:56 on domain   2:    0.82820 elapsed seconds
 5 forrtl: error (78): process killed (SIGTERM)
 6 Image              PC                Routine            Line        Source
 7 wrf.exe            0000000002B4C48E  for__signal_handl  Unknown     Unknown
 8 libpthread-2.17.s  00002AFD494B3370  Unknown            Unknown     Unknown
 9 wrf.exe            0000000000E8CBA0  Unknown            Unknown     Unknown
10 wrf.exe            00000000004164CC  Unknown            Unknown     Unknown
11 wrf.exe            0000000001679FC5  Unknown            Unknown     Unknown
12 wrf.exe            00000000011B420F  Unknown            Unknown     Unknown
13 wrf.exe            000000000052E5DF  Unknown            Unknown     Unknown
14 wrf.exe            000000000040D041  Unknown            Unknown     Unknown
rsl.error.0000
[1:rsl.error.0000 ]
```
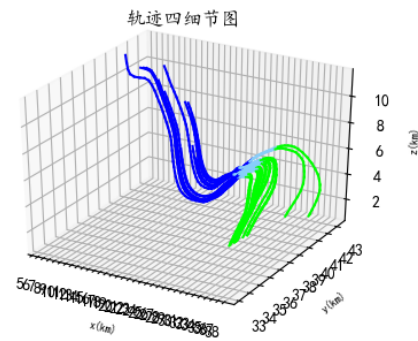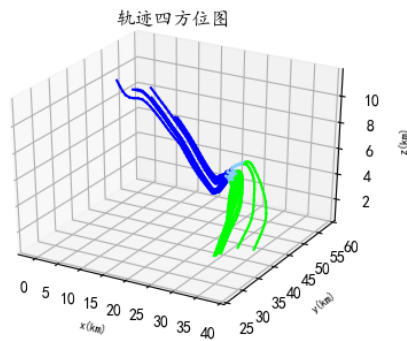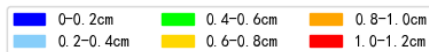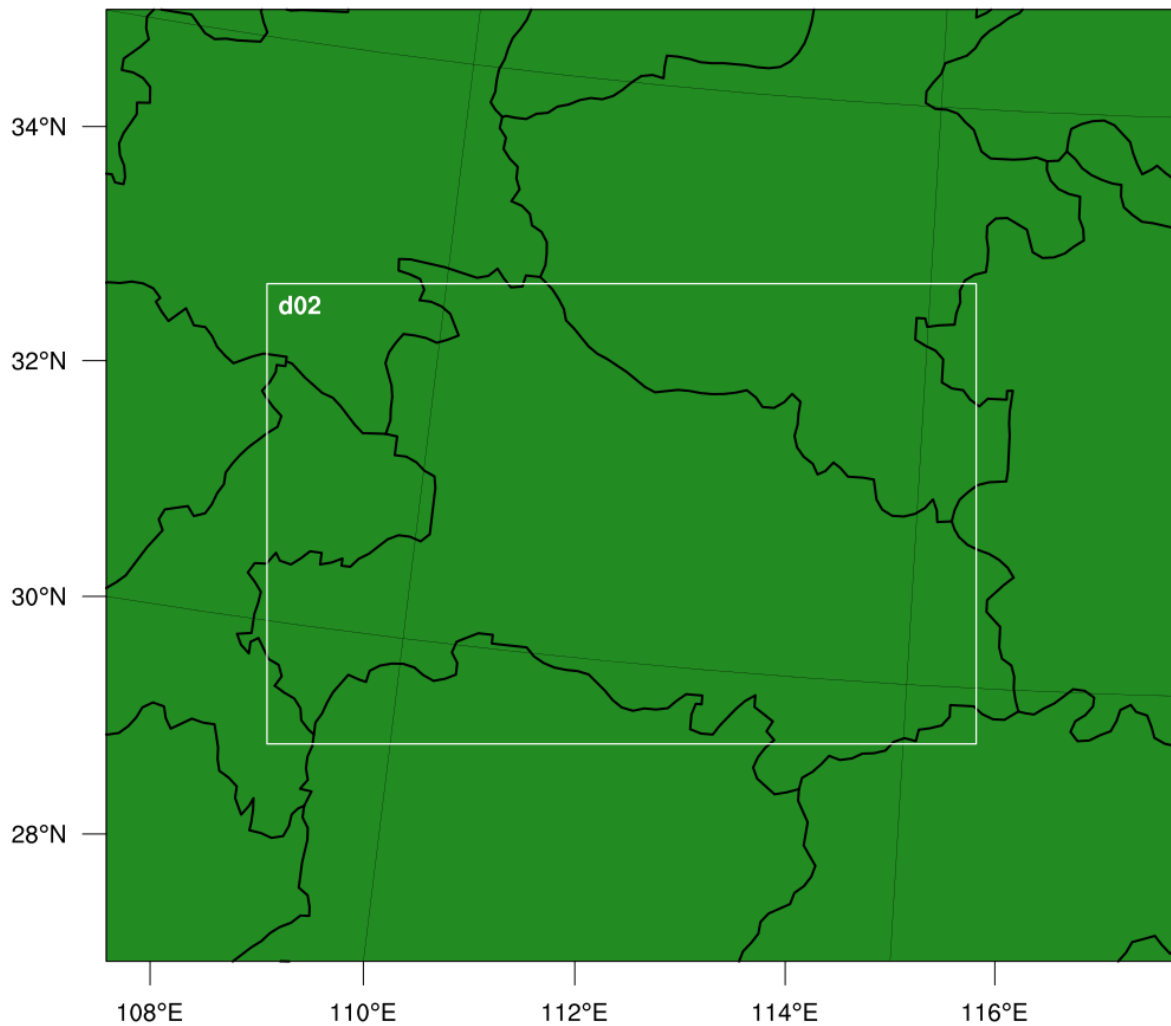
附件

模拟区域

WPS Domain Configuration


```
#  namelist.input

&time_control
run_days                           = 0,
run_hours                          = 18,
run_minutes                        = 0,
run_seconds                        = 0,
start_year                         = 2016, 2016,
start_month                        = 06,   06,
start_day                          = 30,   30,
start_hour                         = 00,   00,
start_minute                       = 00,   00,
start_second                       = 00,   00,
end_year                           = 2016, 2016,
end_month                          = 06,   06,
end_day                            = 30,   30,
end_hour                           = 12,   12,
end_minute                         = 00,   00,
end_second                         = 00,   00,
interval_seconds                   = 21600
input_from_file                    = .true.,.true.,.true.,
history_interval                   = 180,  60,
```

```
frames_per_outfile                     = 1000, 1000,
restart                                = .false.,
restart_interval                       = 5000,
io_form_history                        = 2
io_form_restart                        = 2
io_form_input                          = 2
io_form_boundary                       = 2
debug_level                            = 0
/

&domains
time_step                              = 2,
time_step_fract_num                    = 0,
time_step_fract_den                    = 1,
max_dom                                = 2,
e_we                                   = 340,    676,
e_sn                                   = 303,    439,
e_vert                                 = 51,     51,
p_top_requested                        = 5000,
num_metgrid_levels                     = 32,
num_metgrid_soil_levels                = 4,
eta_levels = 1.0000,0.9980,0.9940,0.9870,0.9750,0.9590,0.9390,0.9160,0.8920,0.865
dx                                     = 3000, 1000,
dy                                     = 3000, 1000,
grid_id                                = 1,      2,
parent_id                              = 0,      1,
i_parent_start                         = 1,      52,
j_parent_start                         = 1,      70,
parent_grid_ratio                      = 1,      3,
parent_time_step_ratio                 = 1,      3,
feedback                               = 1,
smooth_option                          = 0
/

&physics
mp_physics                             = 16,      16,
ra_lw_physics                          = 1,      1,
ra_sw_physics                          = 1,      1,
radt                                   = 6,      2,
sf_sfclay_physics                      = 1,      1,
sf_surface_physics                     = 2,      2,
bl_pbl_physics                         = 99,     99,
cu_physics                             = 0,      0,
cudt                                   = 0,      0,
isfflx                                 = 1,
ifsnow                                 = 0,
icloud                                 = 1,
surface_input_source                   = 1,
num_soil_layers                        = 4,
sf_urban_physics                       = 0,      0,
/

&fdda
/

&dynamics
```

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

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

 &grib2
 /

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