

Impact of (step sizes): all Δt 's in Eqs. (1)-(4)
Impact of (components): all major components of EAMv1
Diagnosed with: v1_All_Shorter - v1_CTRL
Results shown in: Figs. 4-5, left columns in Figs. 8-10

Impact of (step sizes): Δt_{macmic}
Impact of (components): collectively subcycled cloud macro/microphysics
Diagnosed with: v1_MacMic_Shorter - v1_CTRL
Results shown in: middle columns in Figs. 8-10

Impact of (step sizes): all Δt 's in Eqs. (1)-(4) except Δt_{macmic}
Impact of (components): all processes outside the cloud macro/microphysics subcycles, including process coupling
Diagnosed with: v1_All_Except_MacMic_Shorter - v1_CTRL
Results shown in: right columns in Figs. 8-10

Impact of (step sizes): $\Delta t_{\text{remap}}, \Delta t_{\text{adv}}, \Delta t_{\text{rad}}$
Impact of (components): dynamics and radiation
Diagnosed with: v1_All_Except_MacMic_Shorter - v1_CPL+DeepCu_Shorter
Results shown in: Fig. 14

Impact of (step sizes): $\Delta t_{\text{CPLmain}}, \Delta t_{\text{deepCu}}$
Impact of (components): misc. processes, including deep convection, and the coupling between them
Diagnosed with: v1_CPL+DeepCu_Shorter - v1_Dribble
Results shown in: right column in Fig. 16

Impact of (step sizes): $\Delta t_{\text{CPLmacmic}}$
Impact of (components): coupling of cloud macro/microphysics with rest of model
Diagnosed with: v1_Dribble - v1_CTRL
Results shown in: left column in Fig. 16

