

Physics Loop (Δt)

Main Loop (Δt)

Remapping Loop ($\Delta t/k_{split}$)

Acoustic Loop ($\Delta t/k_{split}/n_{split}$)

FV³ Solver

Lagrangian Dynamics

C-grid Solver

Radiation

Physics

Sub-cycled Tracer Transport

Forward Lagrangian Dynamics

Surface Exchange

Consistent Field Update

Vertical Remapping

Forward Delta Z Evaluation

Turbulent Diffusion

Convection

Backward Vertical PGF
Sound Wave Processes

Convection

Cloud and Precipitation

Backward Horizontal PGF

Orographic Drag

Surface Exchange

Cloud and Precipitation

Turbulent Diffusion

Orographic Drag

