

LFM-MIX

CMIT  
(LFM-MIX-TIEGCM)

LR  
(LFM-MIX-RCM; TIEGCM optional)

RCM

Inner Magnetosphere

$$\Delta t_{RCM} = O(10^0) s$$

$$\Delta t_{LFM-RCM-MIX} = O(10^2) s$$

LFM

Magnetohydrodynamics

$$\Delta t_{LFM} = O(10^{-1}) s$$

grid: 53x24x32

MIX

Magnetosphere-Ionosphere  
Coupler/Solver

$$\Delta t_{MIX} = N/A$$

$$\Delta t_{LFM-MIX} = O(10^0) s$$

Grid: 27x120

TIEGCM

Ionosphere

$$\Delta t_{TIEGCM} = O(10^2) s$$

$$\Delta t_{MIX-TIEGCM} = O(10^2) s$$

Grid: 5 degree (36x73)

