

TOOL FOR MULTI MODEL INTERACTION

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ABSTRACT

The TMI allows applications to be composed hierarchically. Physical and dynamical modules of different models can be defined as separate gridded components. These components coupled together with a coupler component. All of these nested within a single master gridded component and work as a single modeling unit through the coupler component. Here the modeling components are RegCM (Regional Climate Model) as atmospheric gridded component and ROMS (Regional Ocean Modeling System) as oceanic gridded component. The coupler component acts as an agent to convert the atmospheric gridded component to oceanic gridded component and vice-versa as per the algorithmic necessity. Design of TMI, allows stopping interactive execution to standalone execution of the respective gridded component as per the user selection. TMI can be included in data assimilation and climate application.

KEYWORDS: Regcm, Roms, Mct, TMI, MPI.