Community for the numerical modeling
of the global, regional and coastal ocean

Contribution ID: **7**   Type: **Talk**

Development of a new 3D nonhydrostatic model on unstructured grids

Friday 31 January 2020 10:00 (30 minutes)

We present our ongoing work on developing a new 3D nonhydrostatic model, using a Finite-element method on unstructured grids, to address a wide range of scales. We show that the commonly encountered restriction on grid aspect ratio (between the vertical and horizontal grid sizes) can be circumvented with proper pre-conditioners. Benchmark tests are shown for short wave propagation and shoaling over obstacles to demonstrate the accuracy and efficiency.

Do you need an official invitation letter?

No

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Track Classification: COMMODORE conference