

COMPUTATIONAL METHODS IN ENVIRONMENTAL FLUID MECHANICS TRACK NUMBER: 700

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ABSTRACT

Many problems in geophysical and environmental fluid mechanics exhibit a wide range of scales and must be solved over large, geometrically complex spatial domains, often for long periods of time. Computational methods for these types of problems have matured considerably in recent years. This mini-symposium will examine the latest developments in solving geophysical and environmental fluid mechanics problems.

Topics of interest include:

- Model development and application.
- Coupling of flow and transport processes and models.
- High-performance computing and parallelization strategies.
- Error analysis, verification and validation.
- Unstructured mesh generation algorithms and criteria.
- Fluid-structure interactions