## Hamburg COMMODORE conference



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## Some analytical solutions for validation of free surface flow computational codes

Thursday 30 January 2020 14:00 (30 minutes)

We present several time dependent analytical solutions for the incompressible Euler system with free surface. These analytical solutions are designed to have a basis for comparison when validating numerical simulation codes. They concern fluid flows gov- erned by Euler equations with or without hydrostatic hypothesis including wet/dry interface, variable density, wide variety of boundary conditions and possible variable bottom topography. Some of these analytical solutions can also be used to validate shallow water model or free surface Navier Stokes model.

## Do you need an official invitation letter?

No

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