



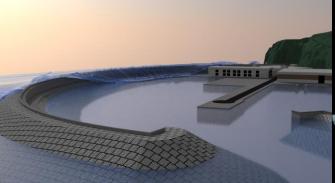
(IHFOAM GUI)

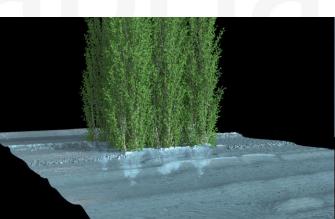
IHFOAM applied to Coastal Engineering

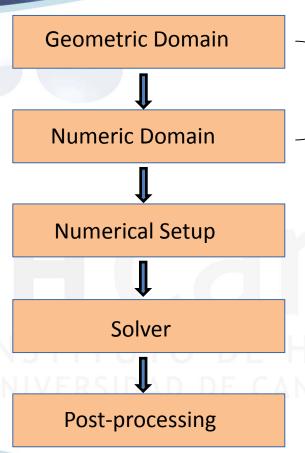
Regular waves interaction with cylinders (3D)

Gabriel Barajas, Javier L. Lara, María Maza, Alejandro Gonzalez









Mesh generation (object and background)

Merge meses, Boundary conditions, Initial conditions, Numerical parameters, Pre-processing

Execute serial or parallel

IABRIA

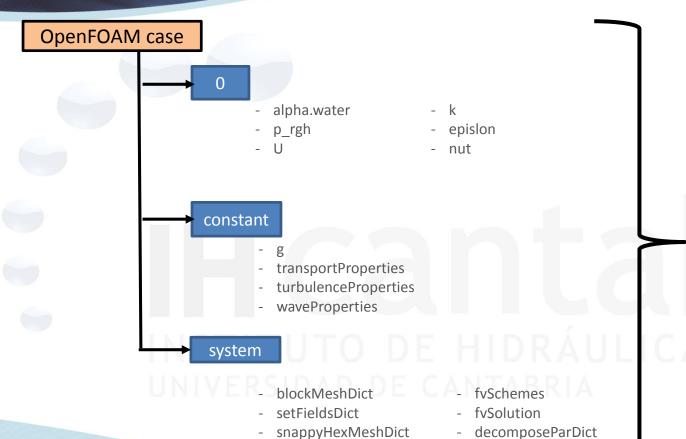
Wave gauges, run-up, etc.











- controlDict

IHFOAM GUI

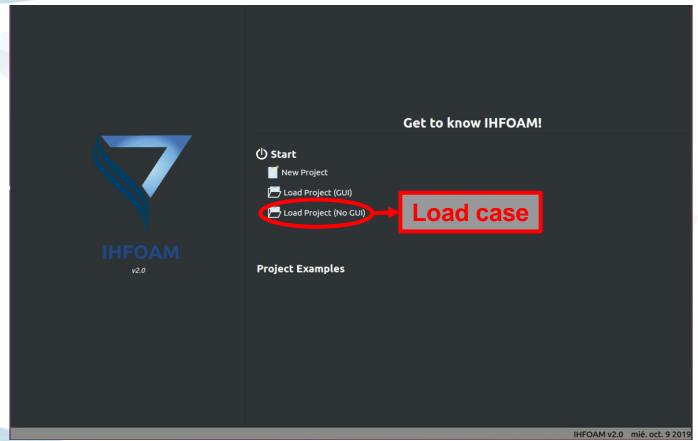
AMBIENTAL









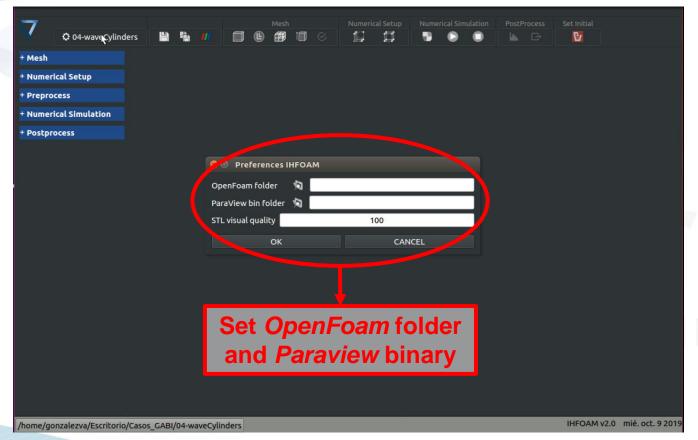










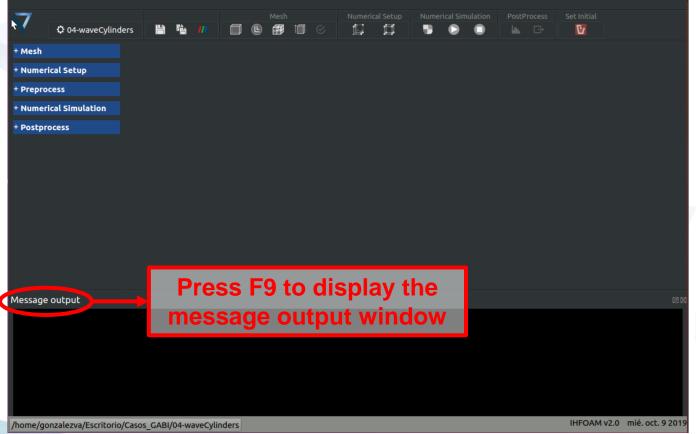












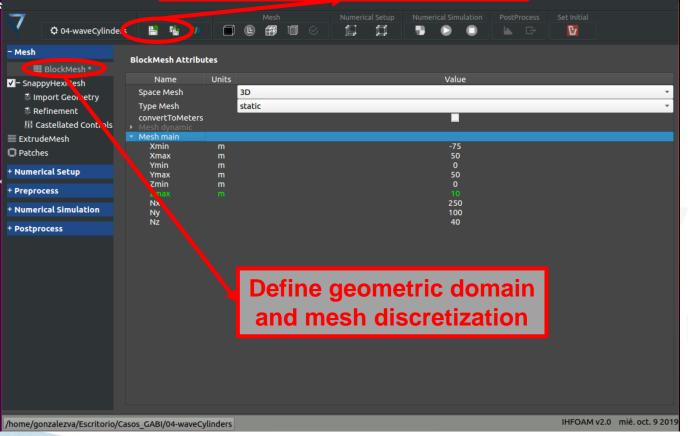








Save single pannel modified or save all pannels modified.

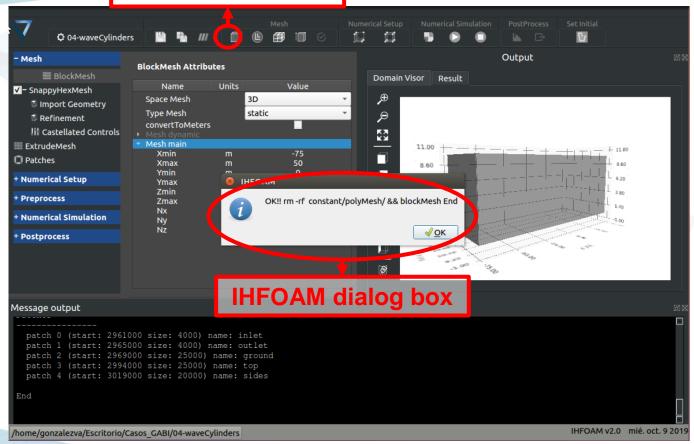








blockMesh button

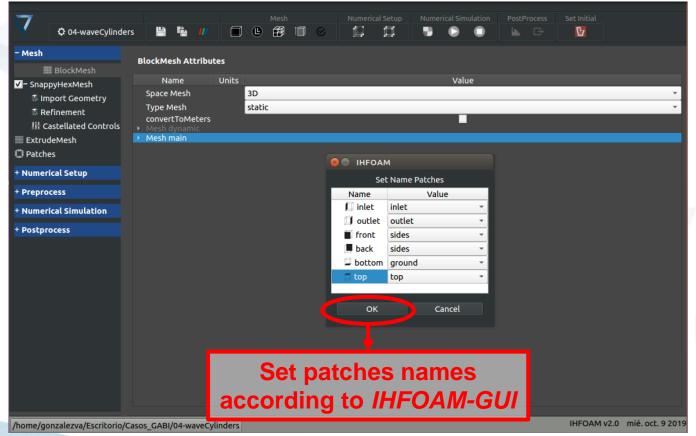










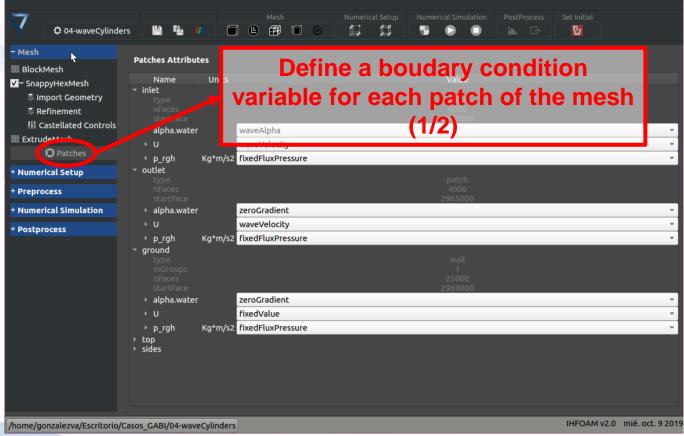










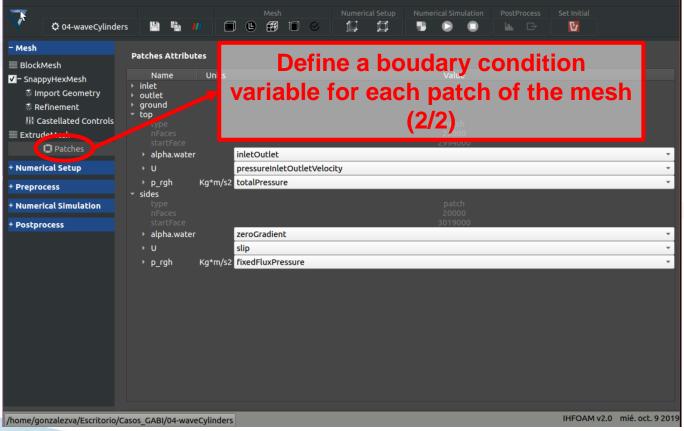












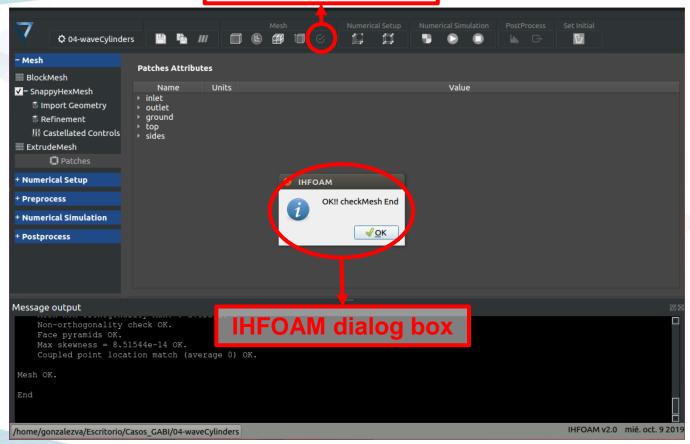








checkMesh button



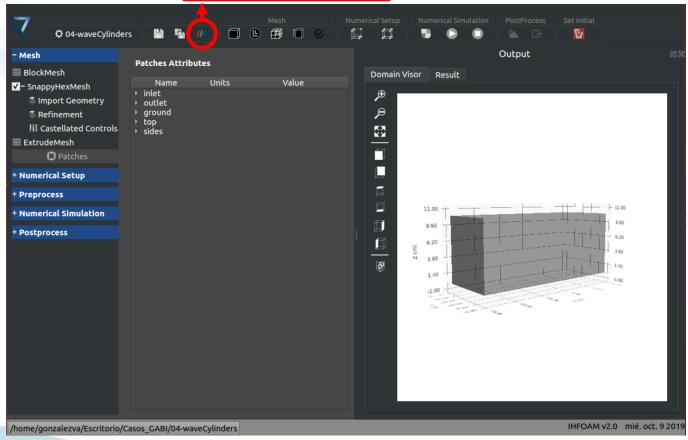








Paraview button

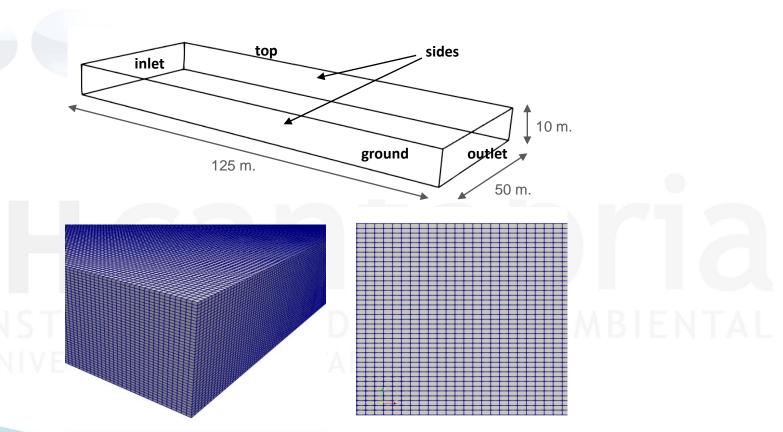










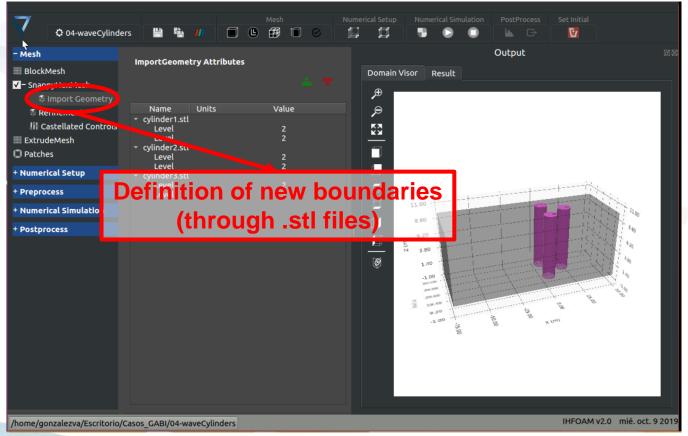










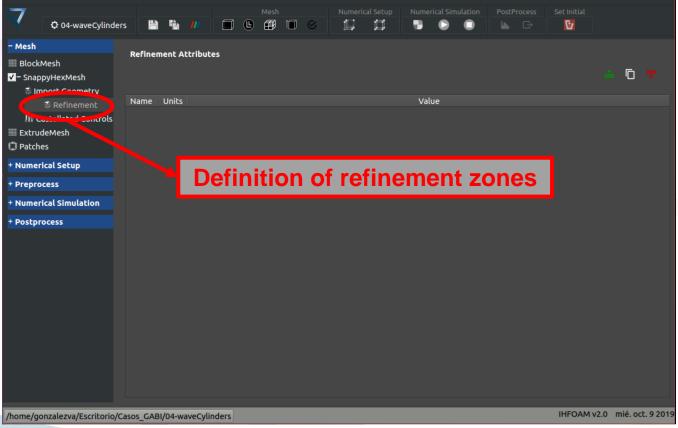










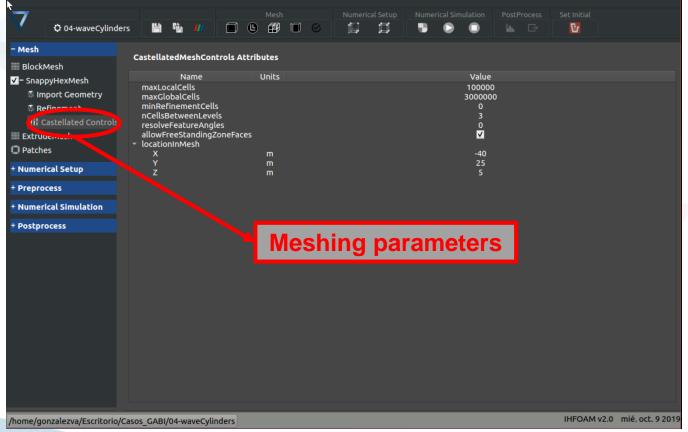












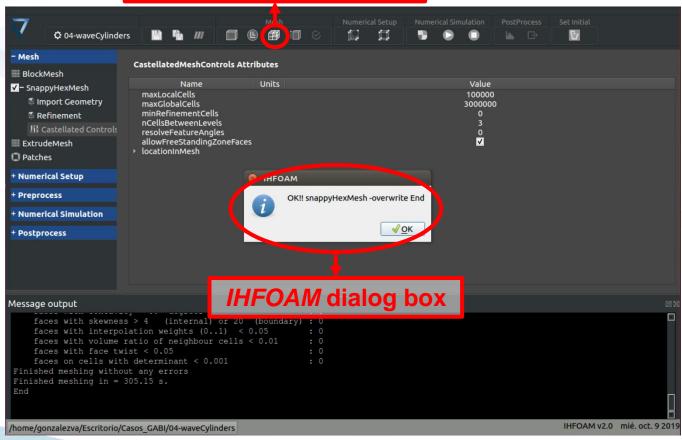








snappyHexMesh button

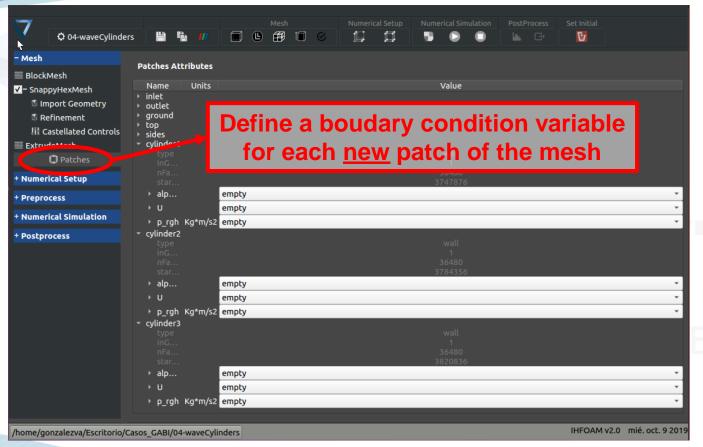












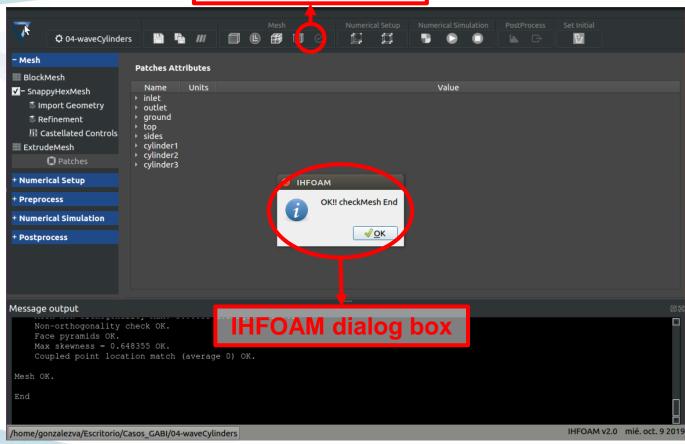








checkMesh button



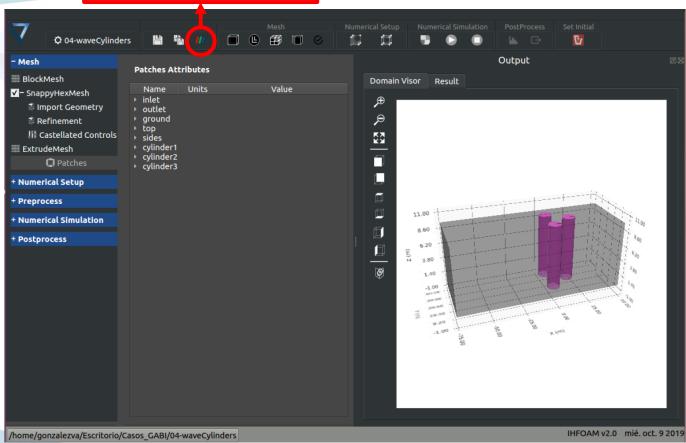








Paraview button

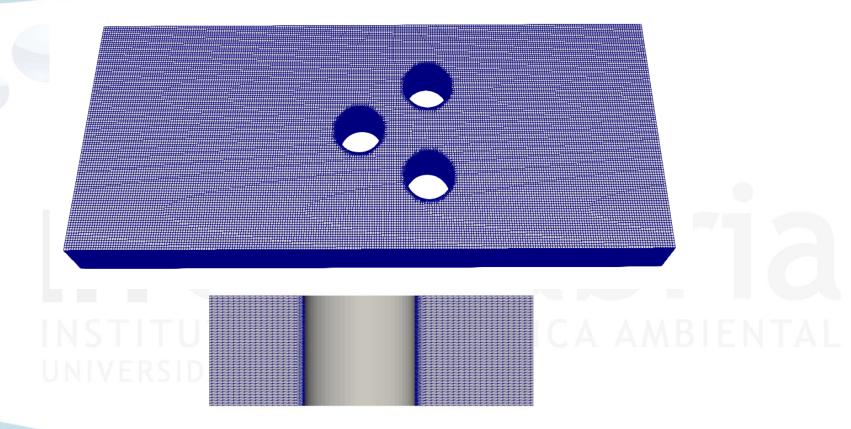










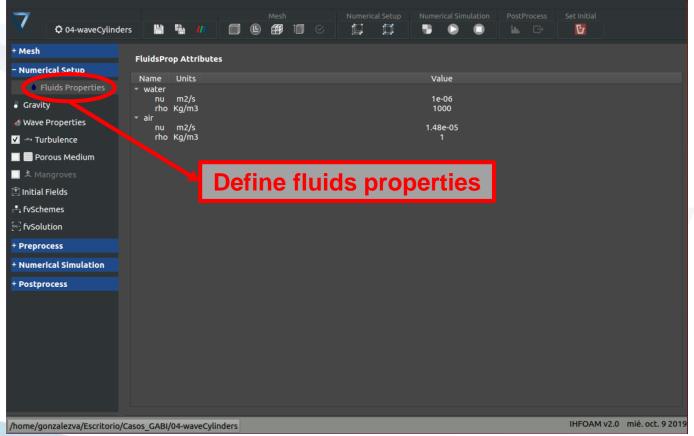










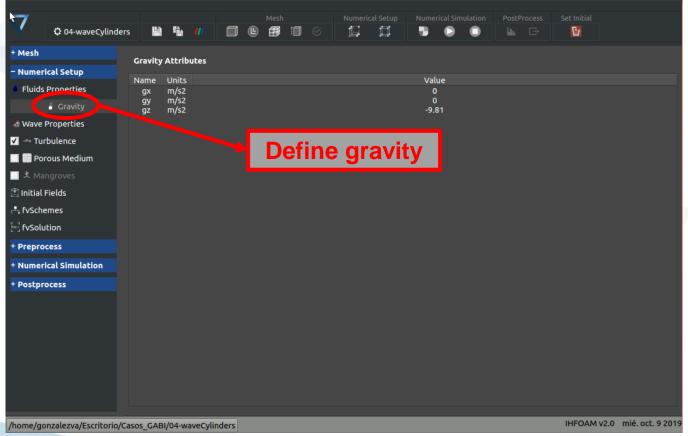










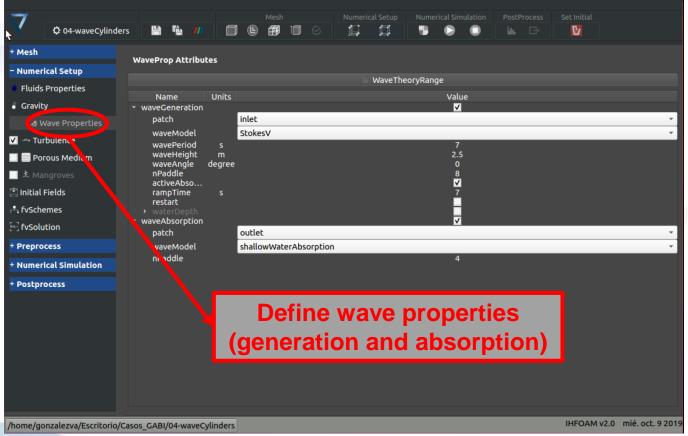










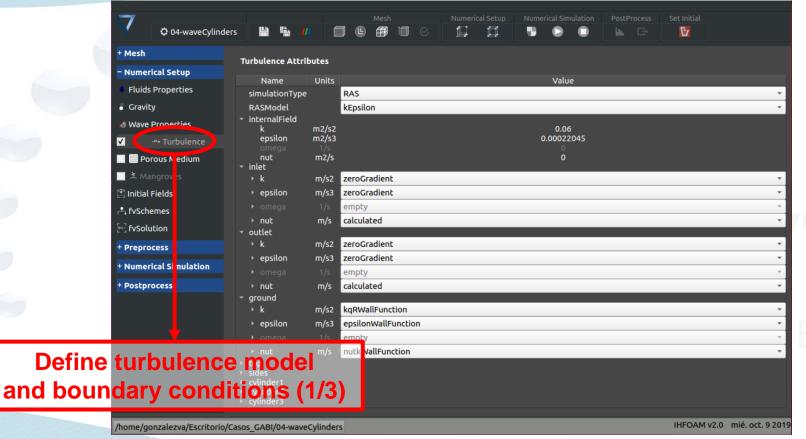










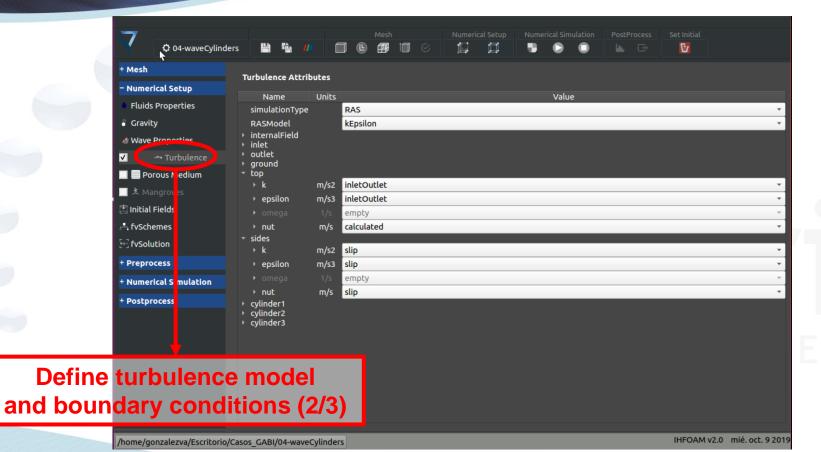










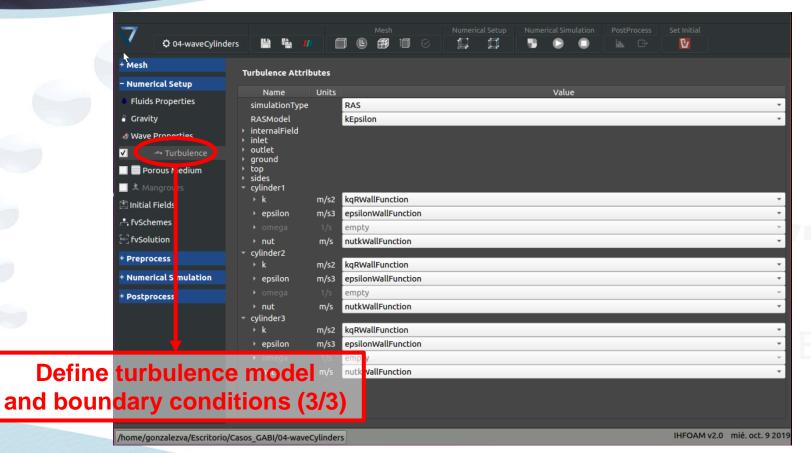










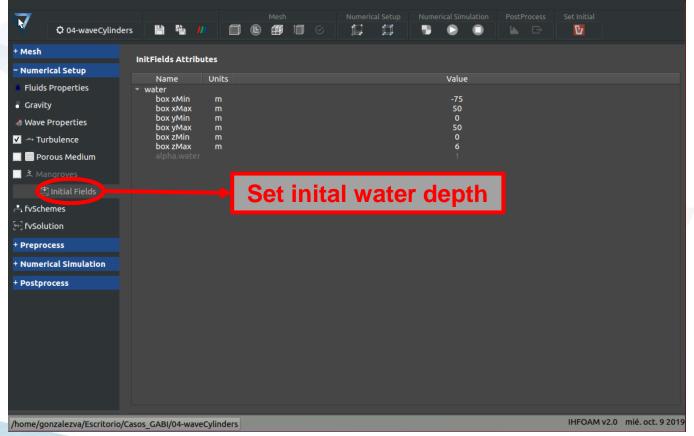












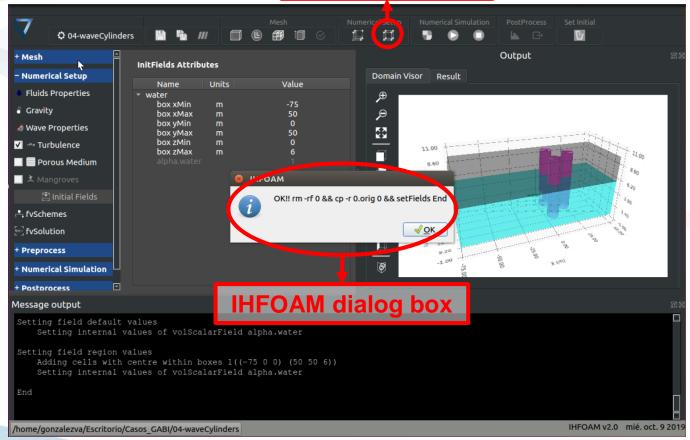








setFields button

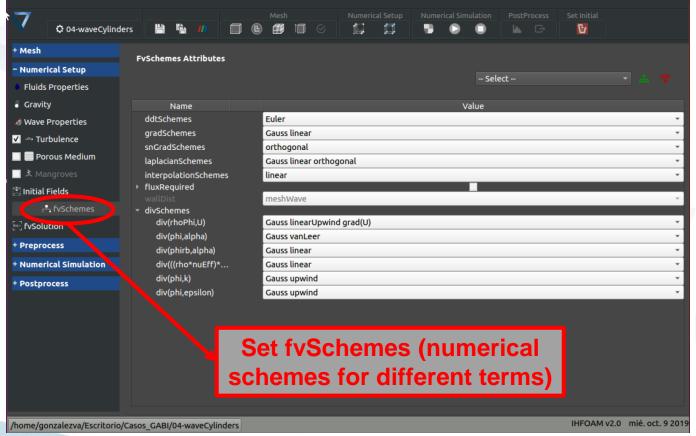










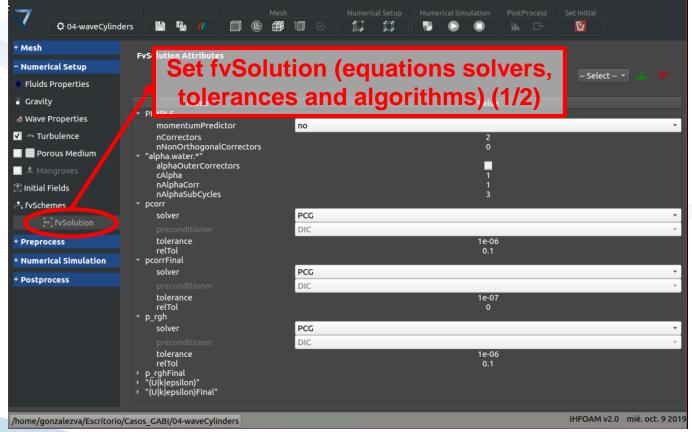










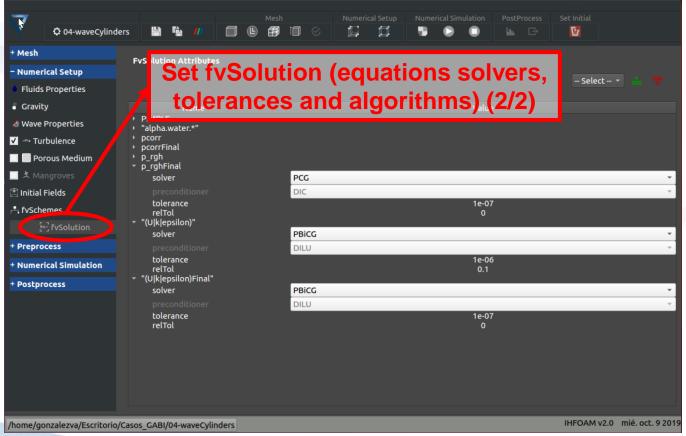










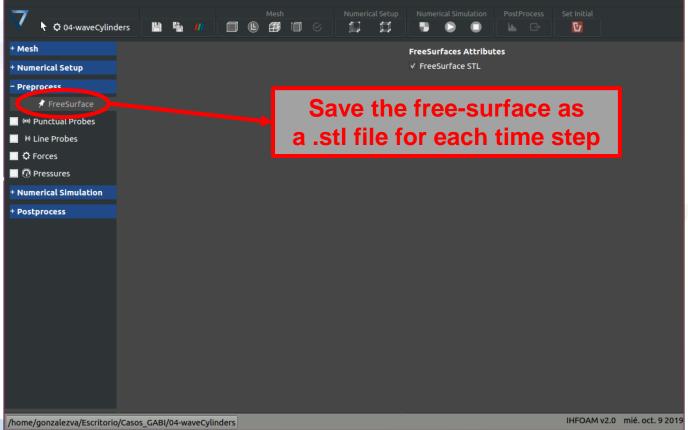










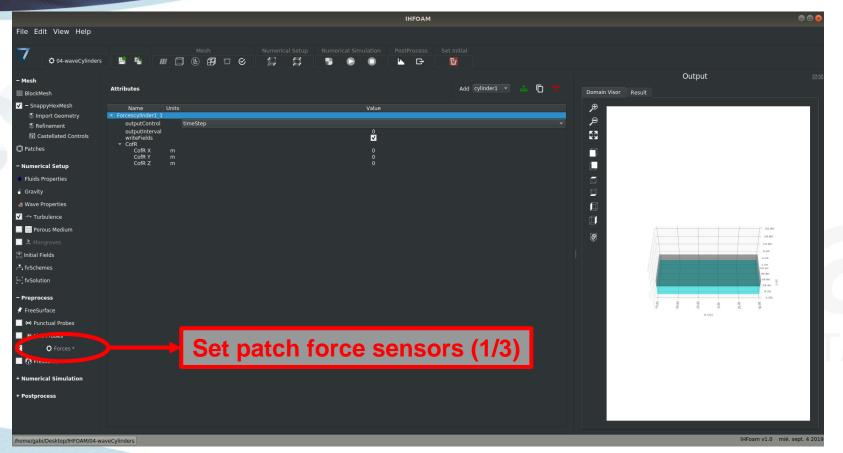










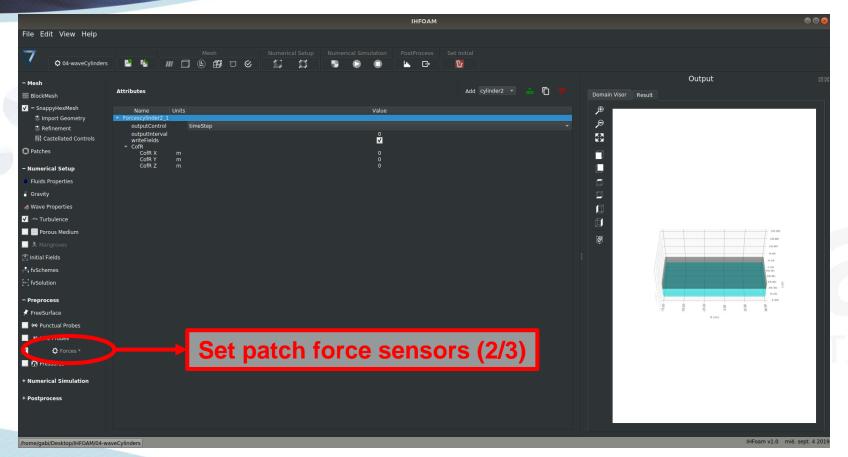








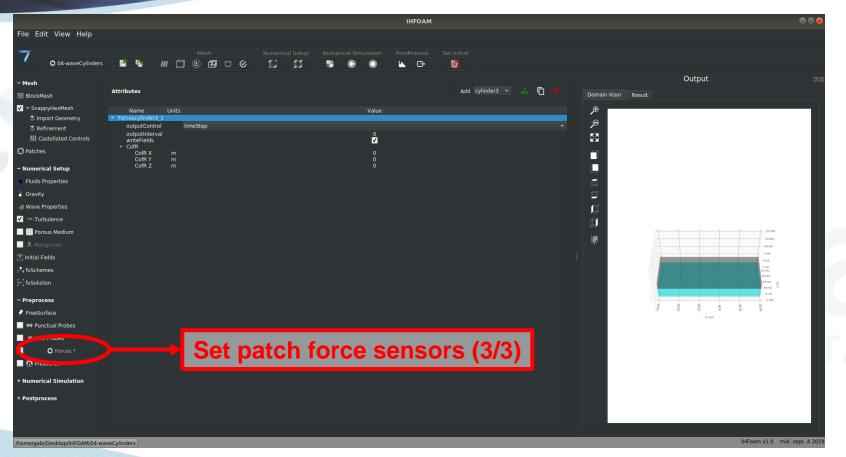








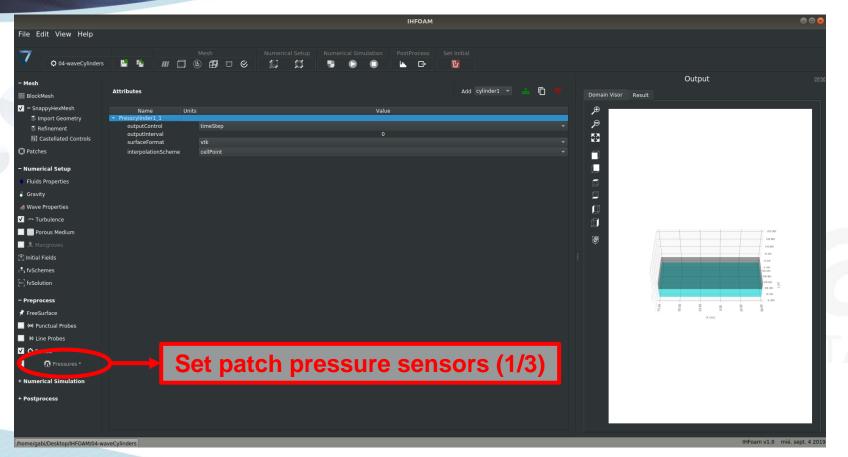








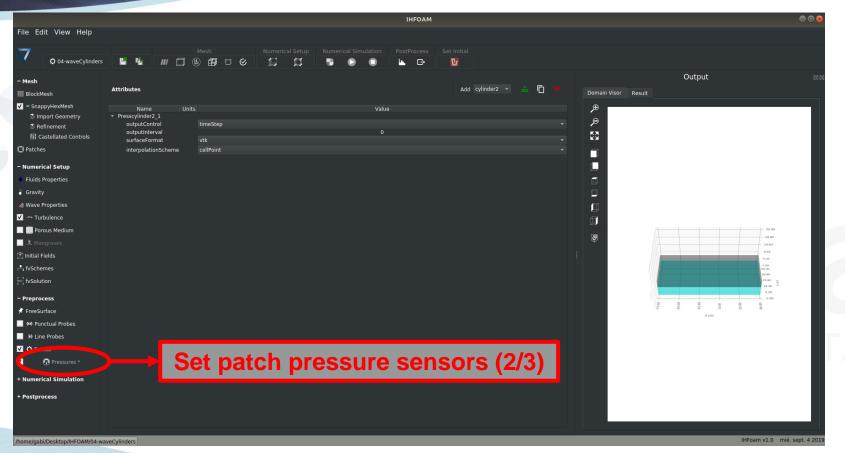










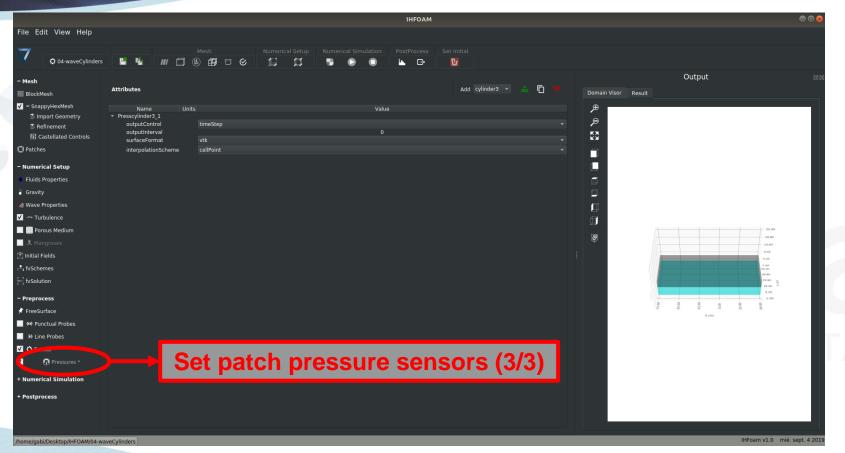










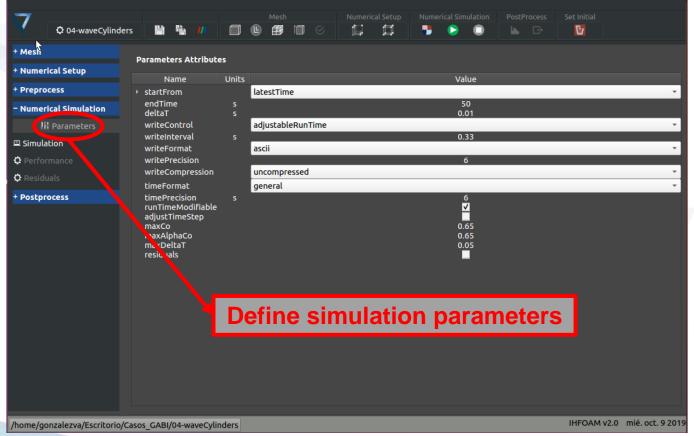
















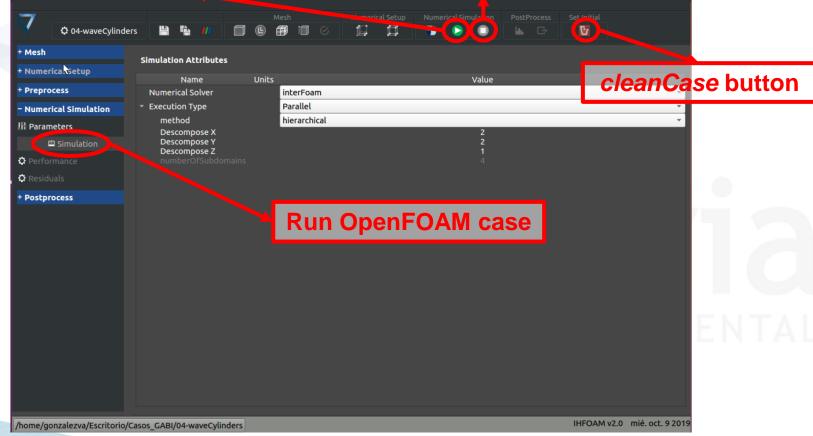




decomposePar button

Run/Execute button

Regular waves interaction with cylinders (3D)



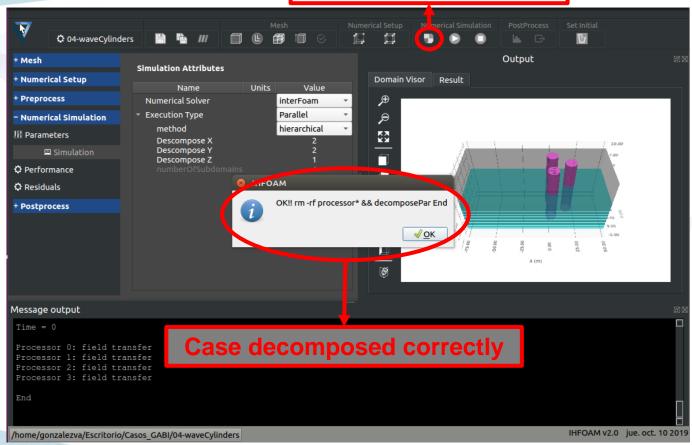








decomposePar button



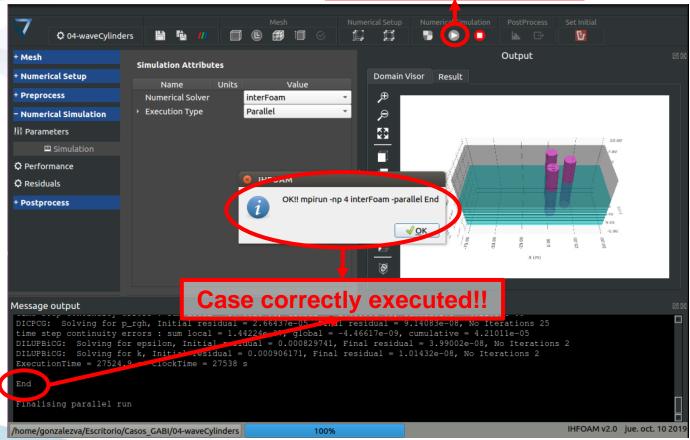








Run/Execute button

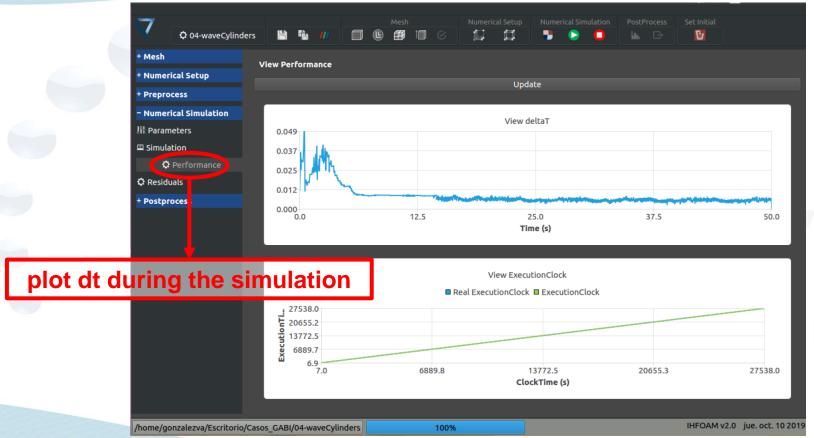










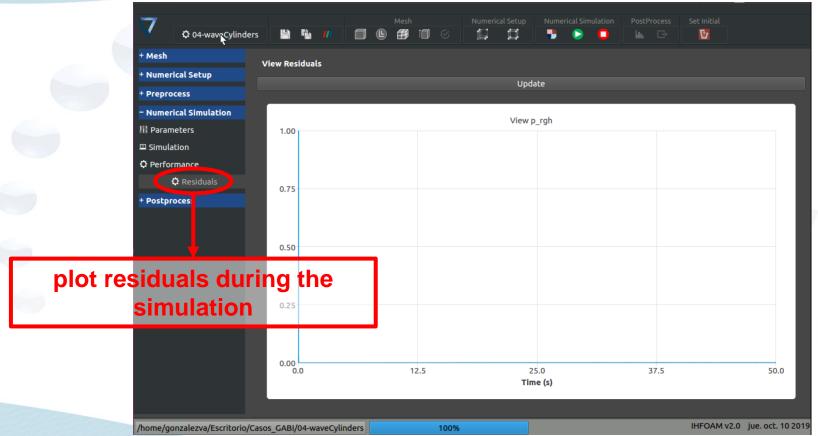












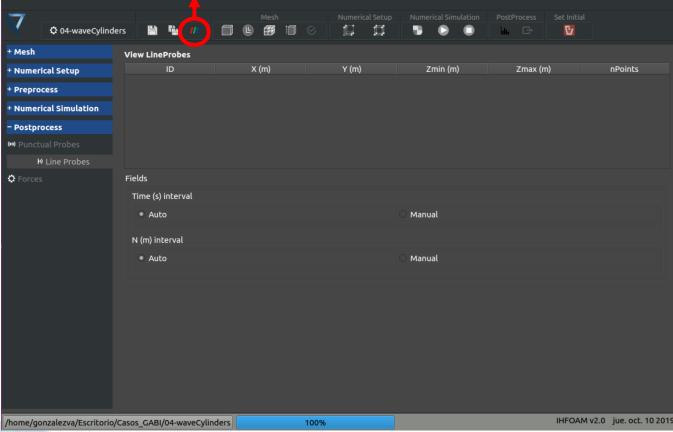








Paraview button

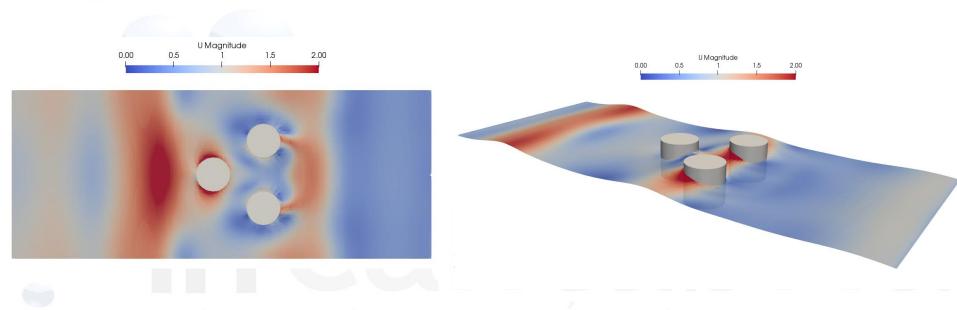












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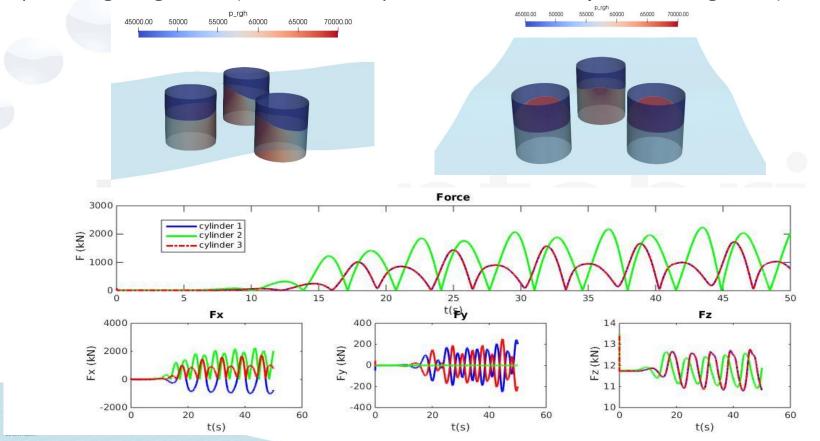








Postprocessing using Matlab (forces on each cylinder, taken from the *postProcessing* folder):









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