
IHCantabria
UNIVERSIDAD DE CANTABRIA
R+D+i for a Sustainiable Development

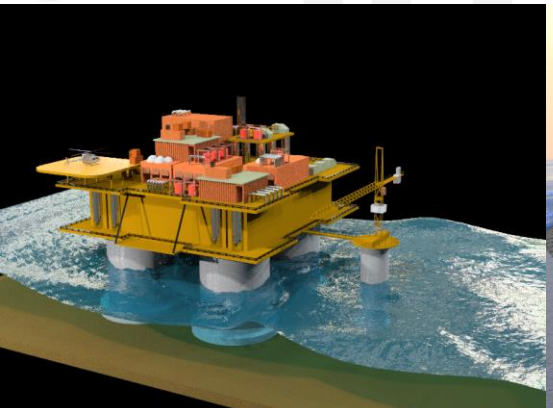
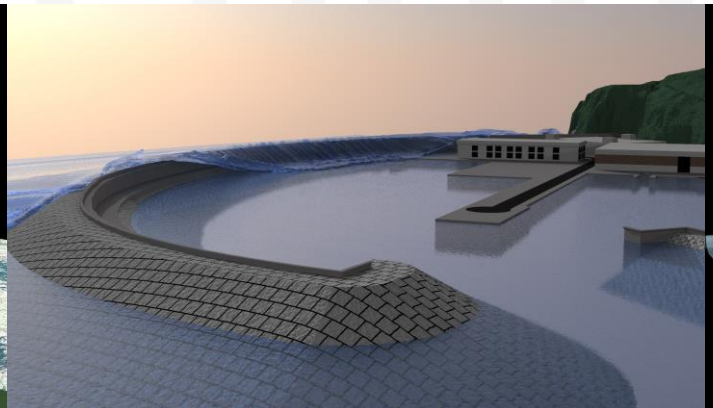
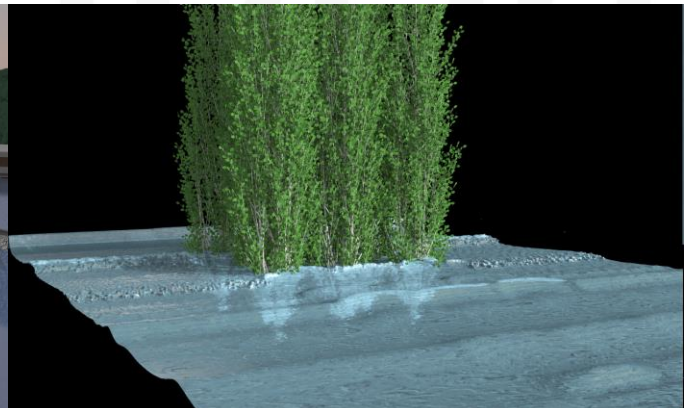
IH cantabria
INSTITUTO DE HIDRÁULICA AMBIENTAL
UNIVERSIDAD DE CANTABRIA

(IHFOAM GUI)

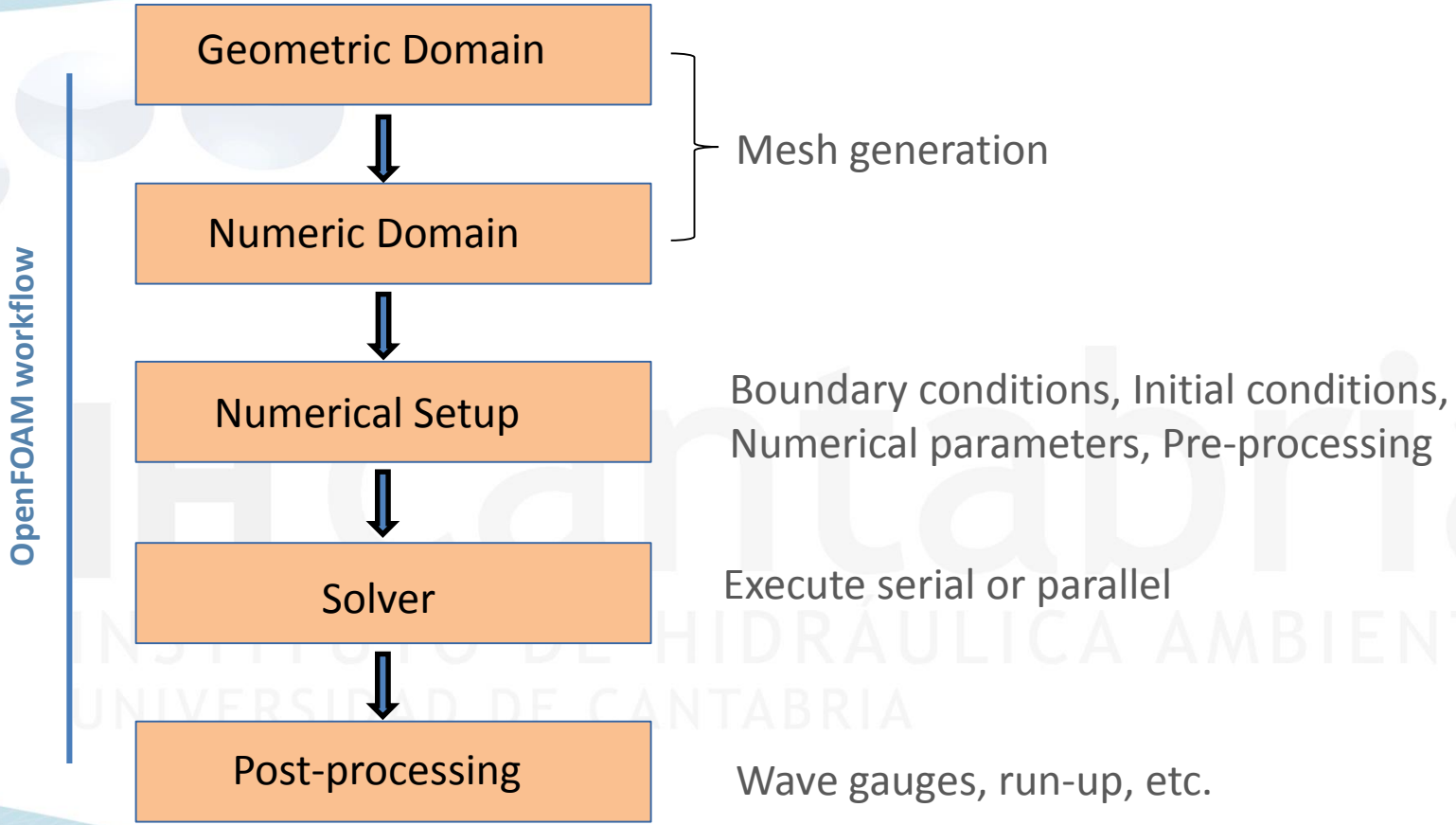
# IHFOAM applied to Coastal Engineering

## Regular waves in empty basin (3D)

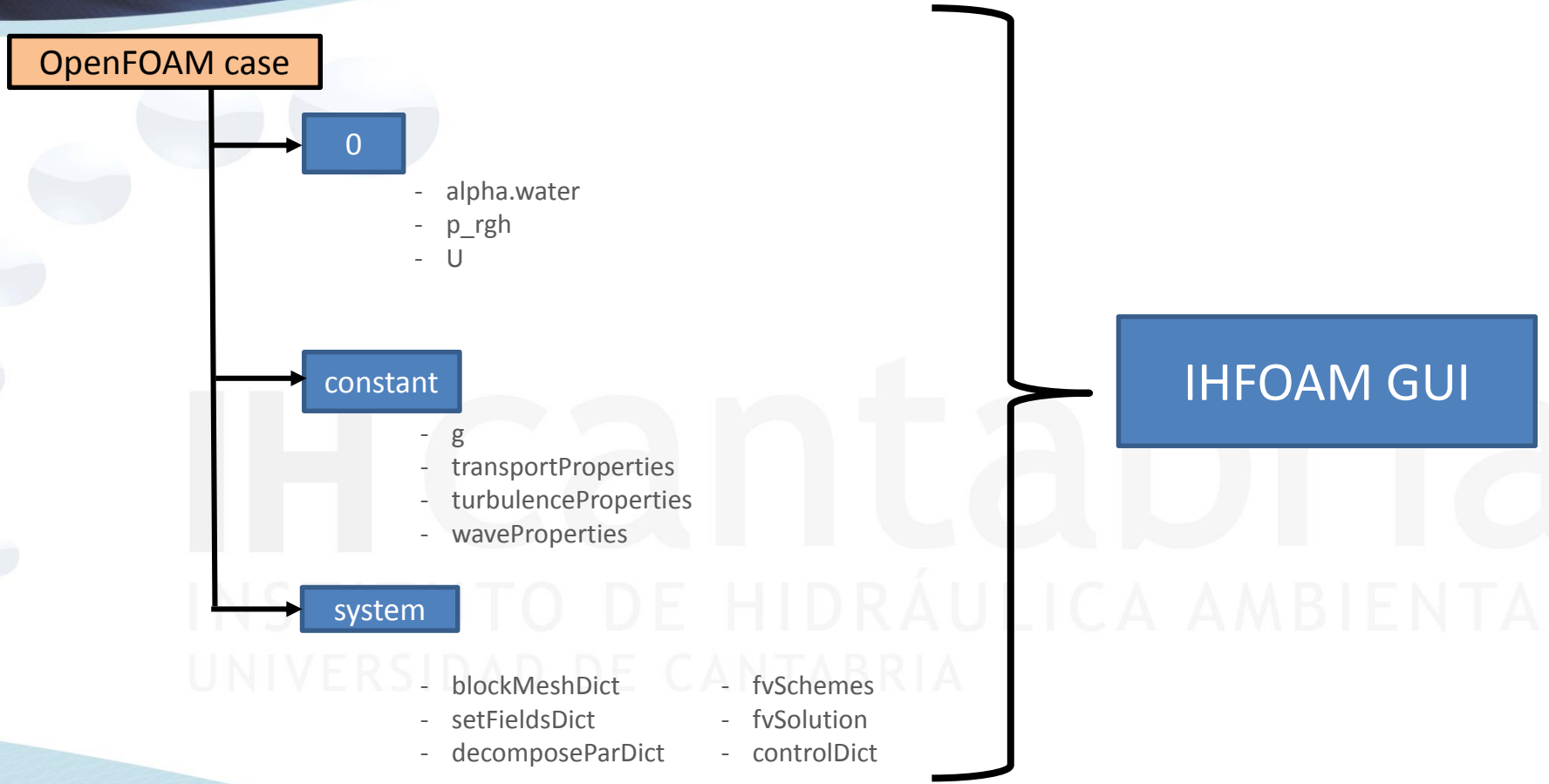
Gabriel Barajas, Javier L. Lara, María Maza, Alejandro Gonzalez

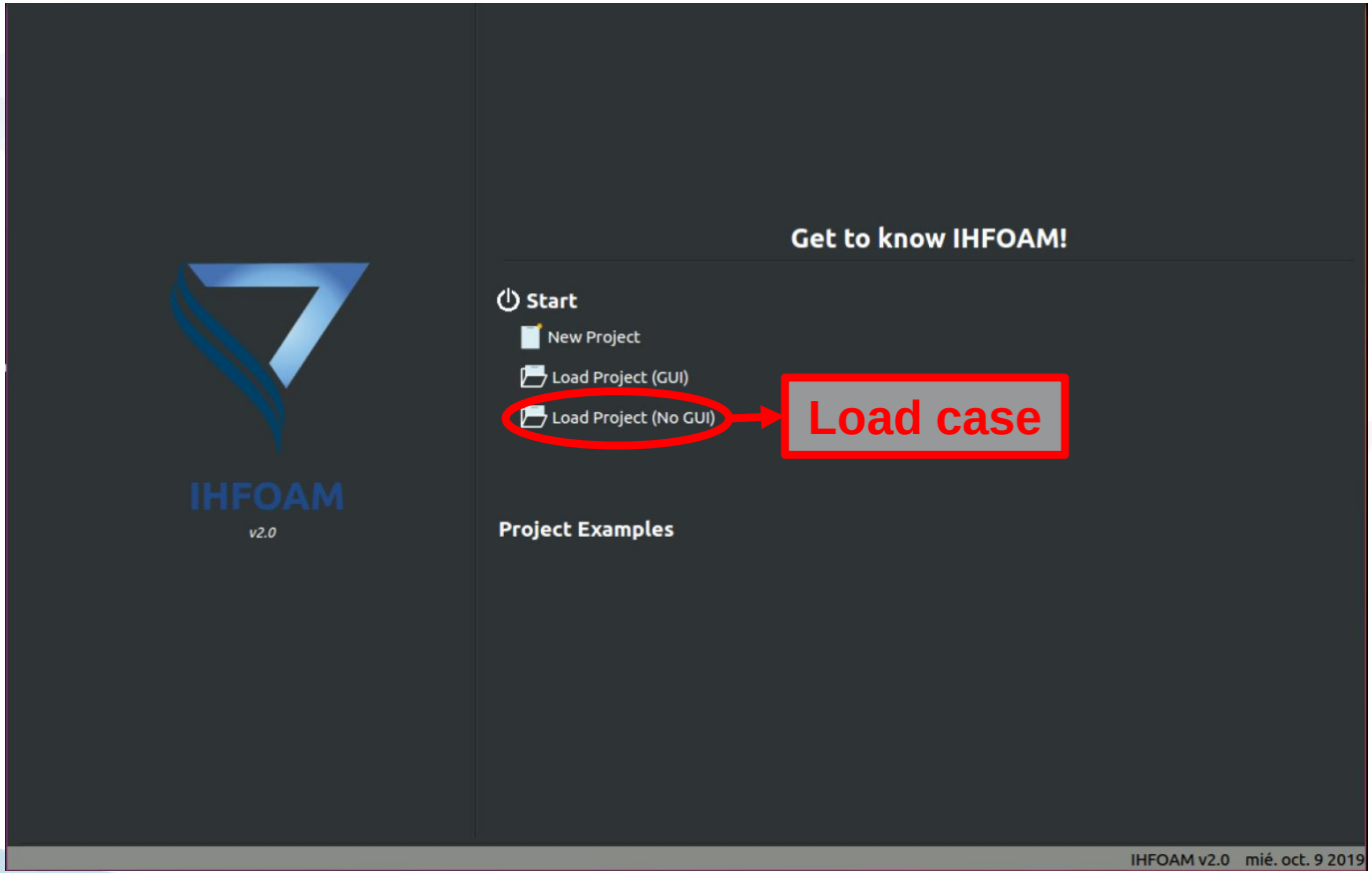
# Regular waves in empty basin (3D)



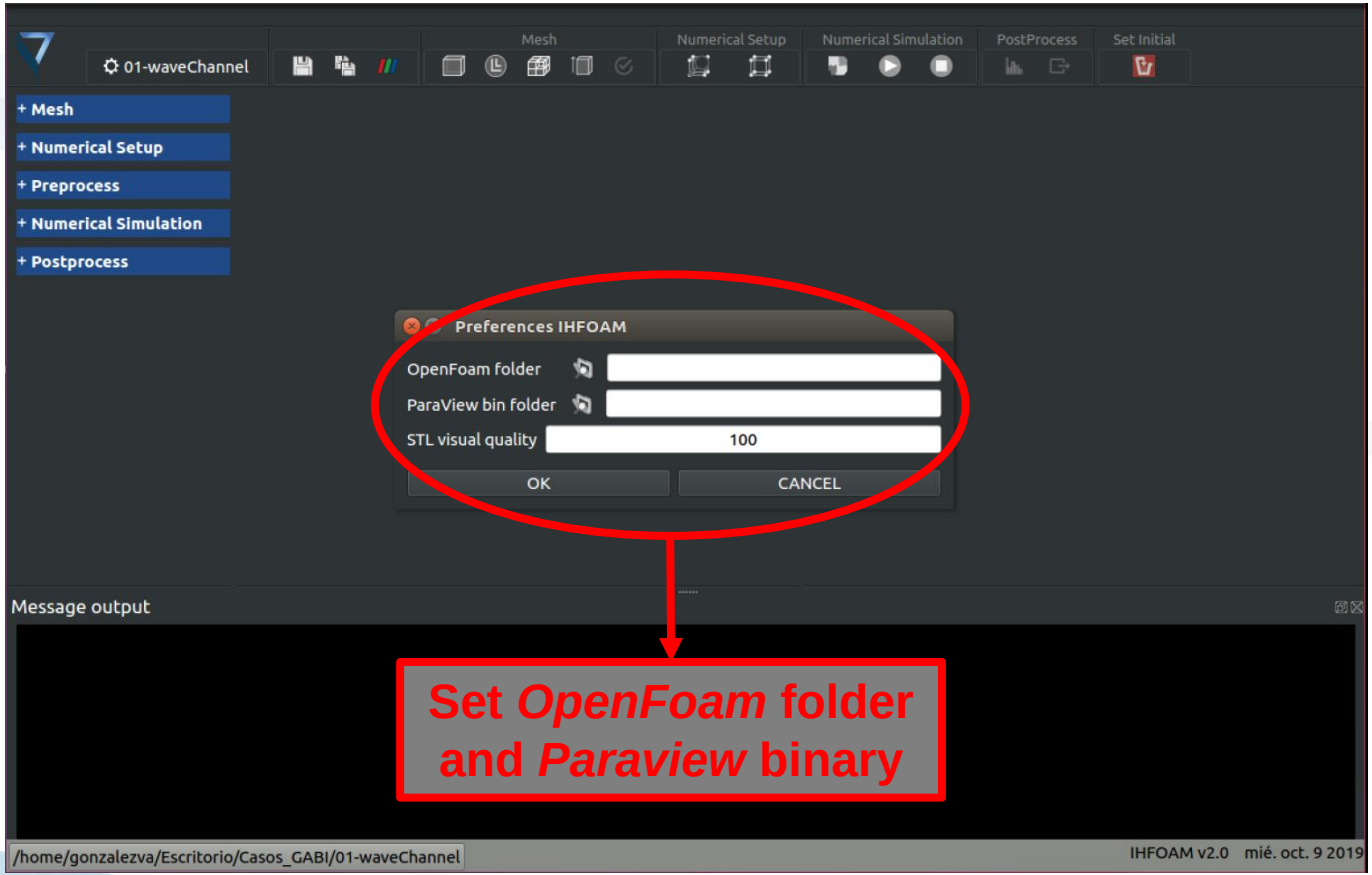
# Regular waves in empty basin (3D)



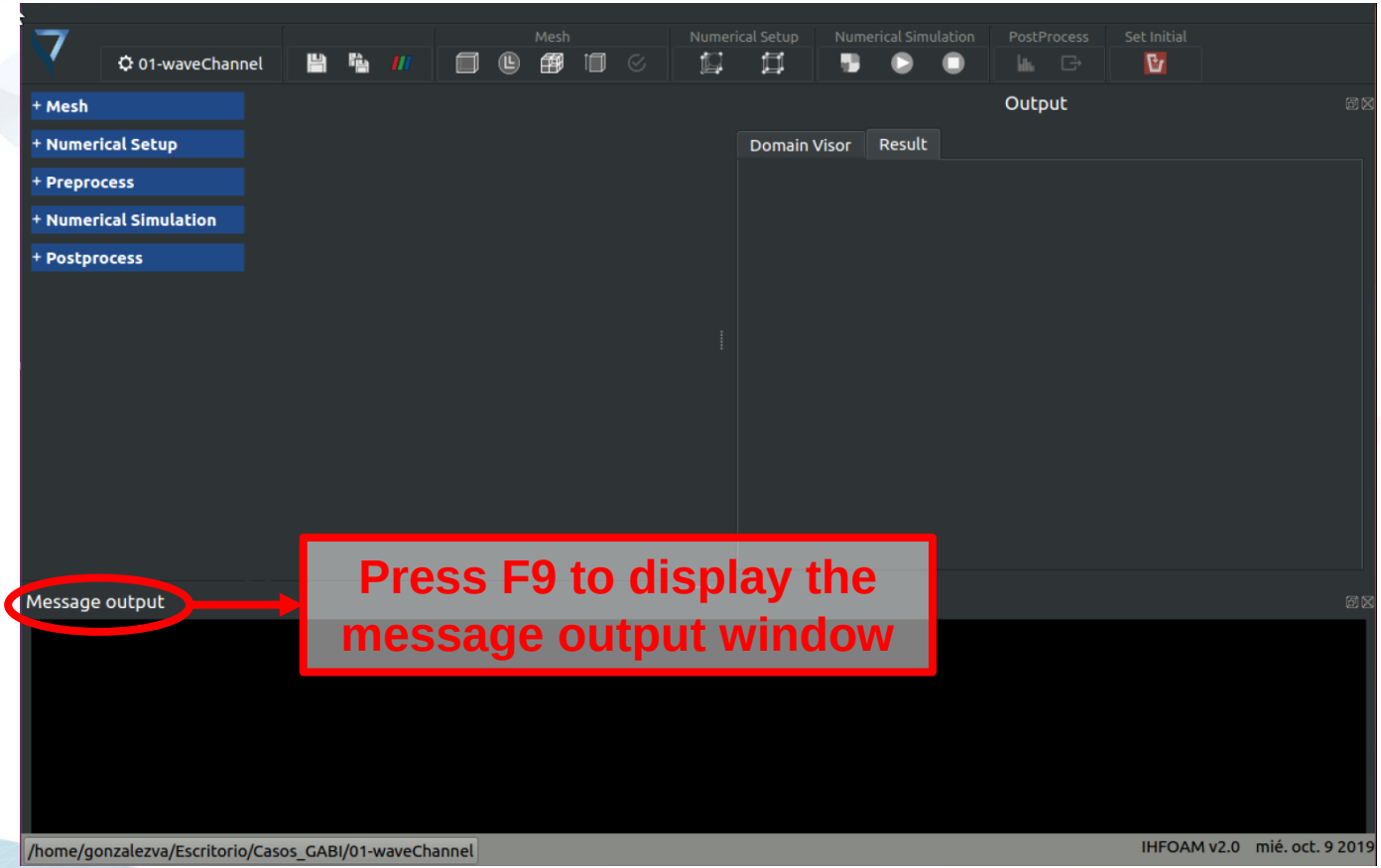
# Regular waves in empty basin (3D)



# Regular waves in empty basin (3D)

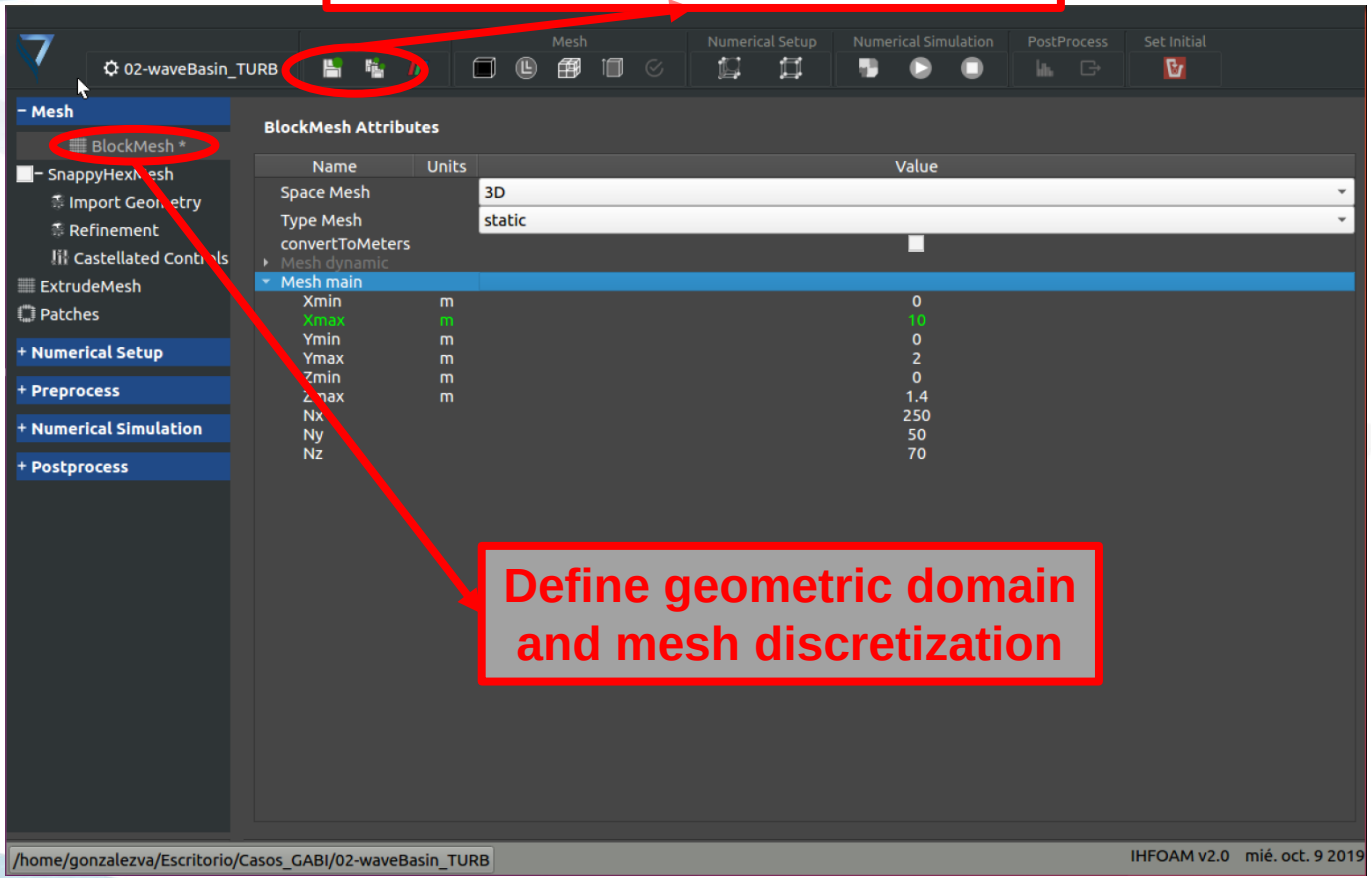


# Regular waves in empty basin (3D)



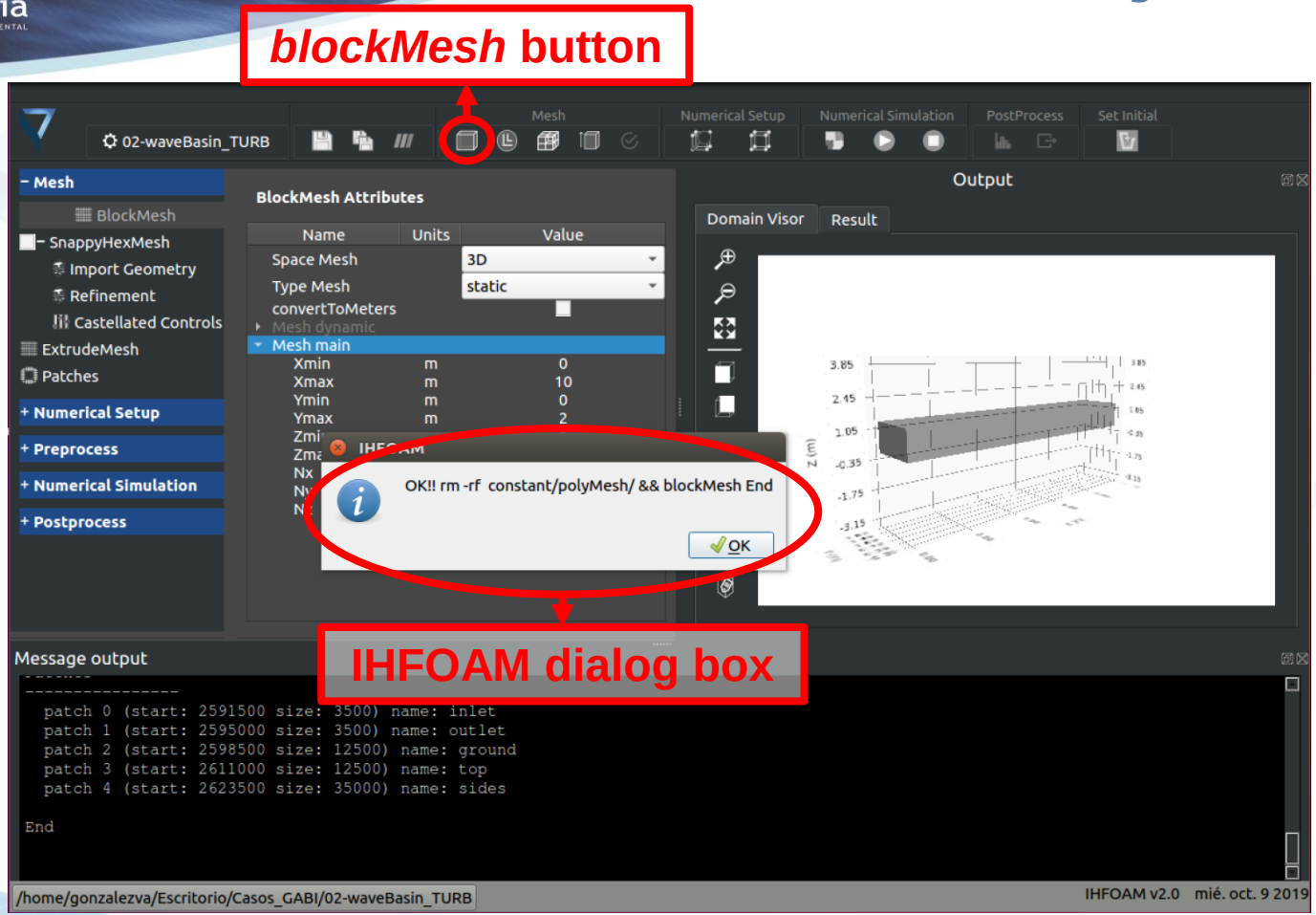
# Regular waves in empty basin (3D)

**Save single pannel modified or save all pannels modified.**

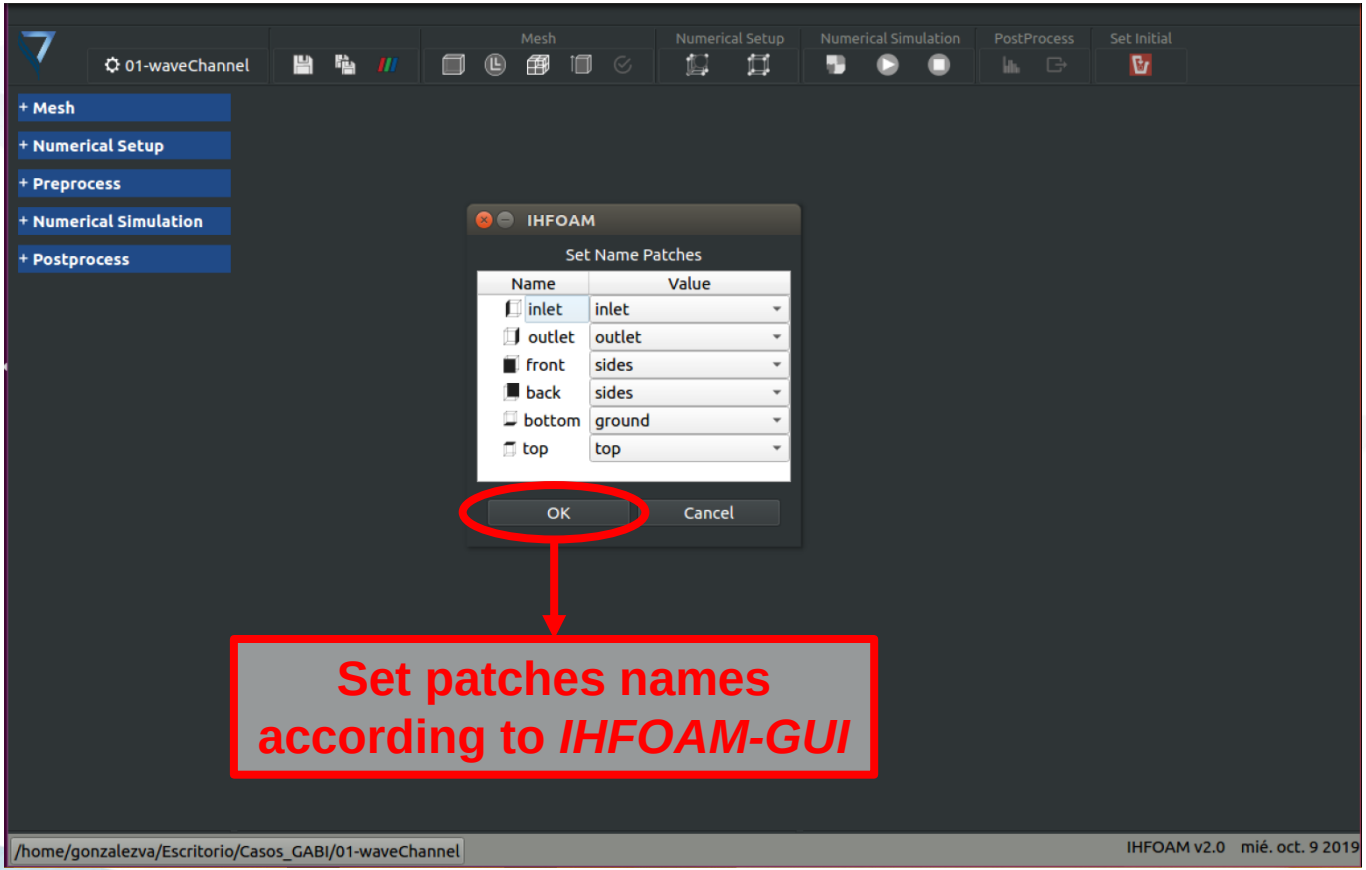



**Define geometric domain and mesh discretization**

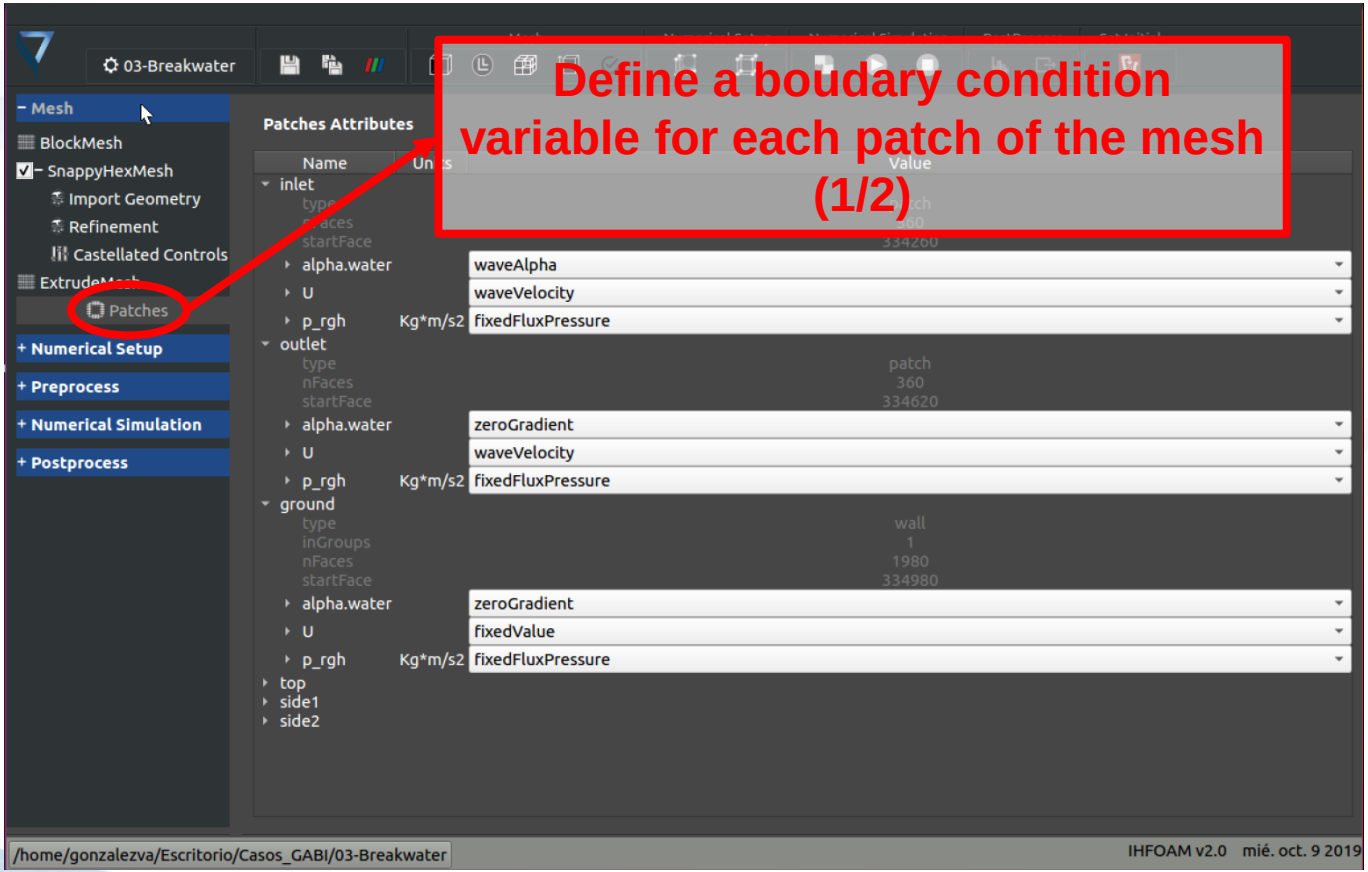
# Regular waves in empty basin (3D)



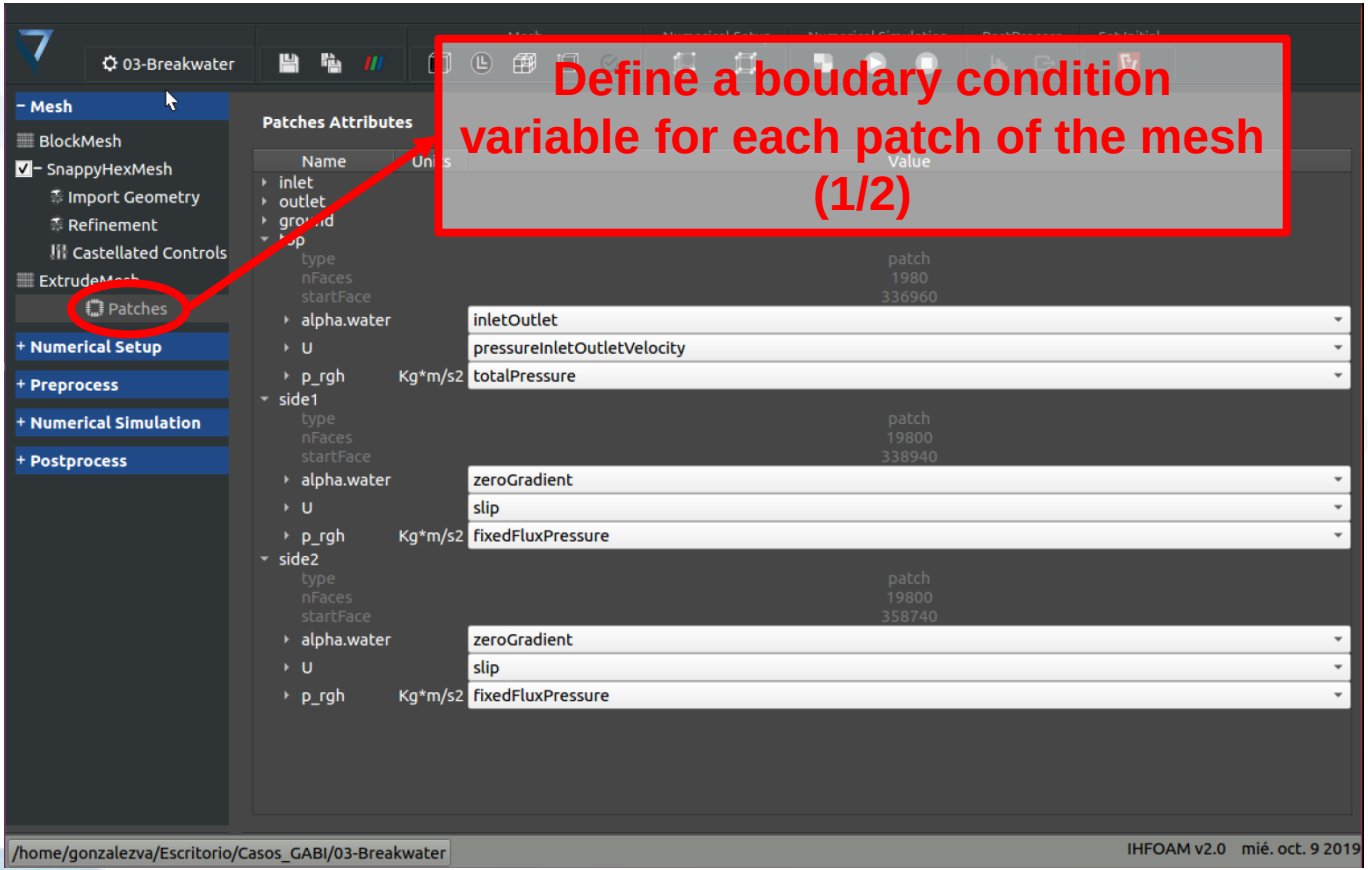
# Regular waves in empty basin (3D)



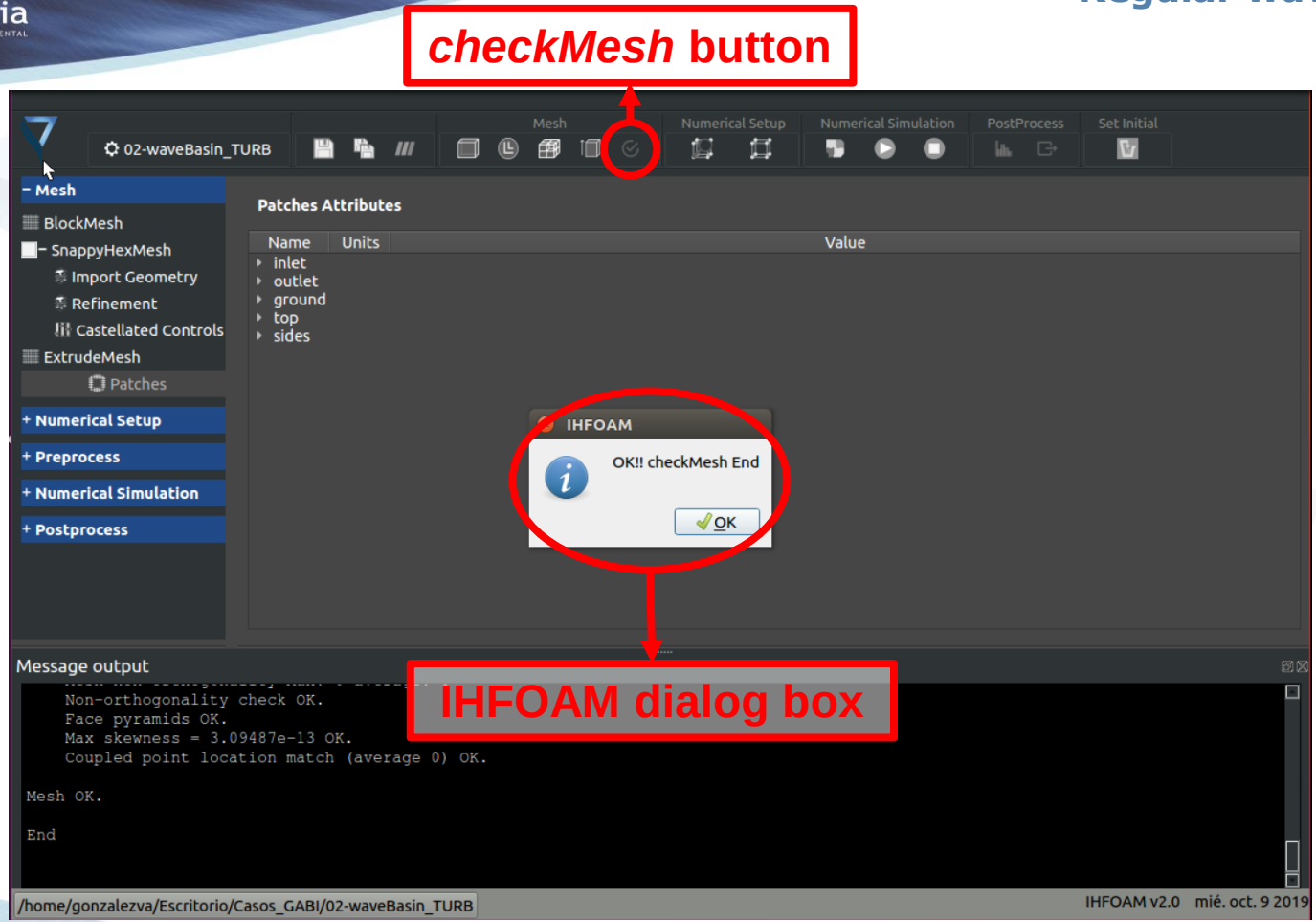
# Regular waves in empty basin (3D)



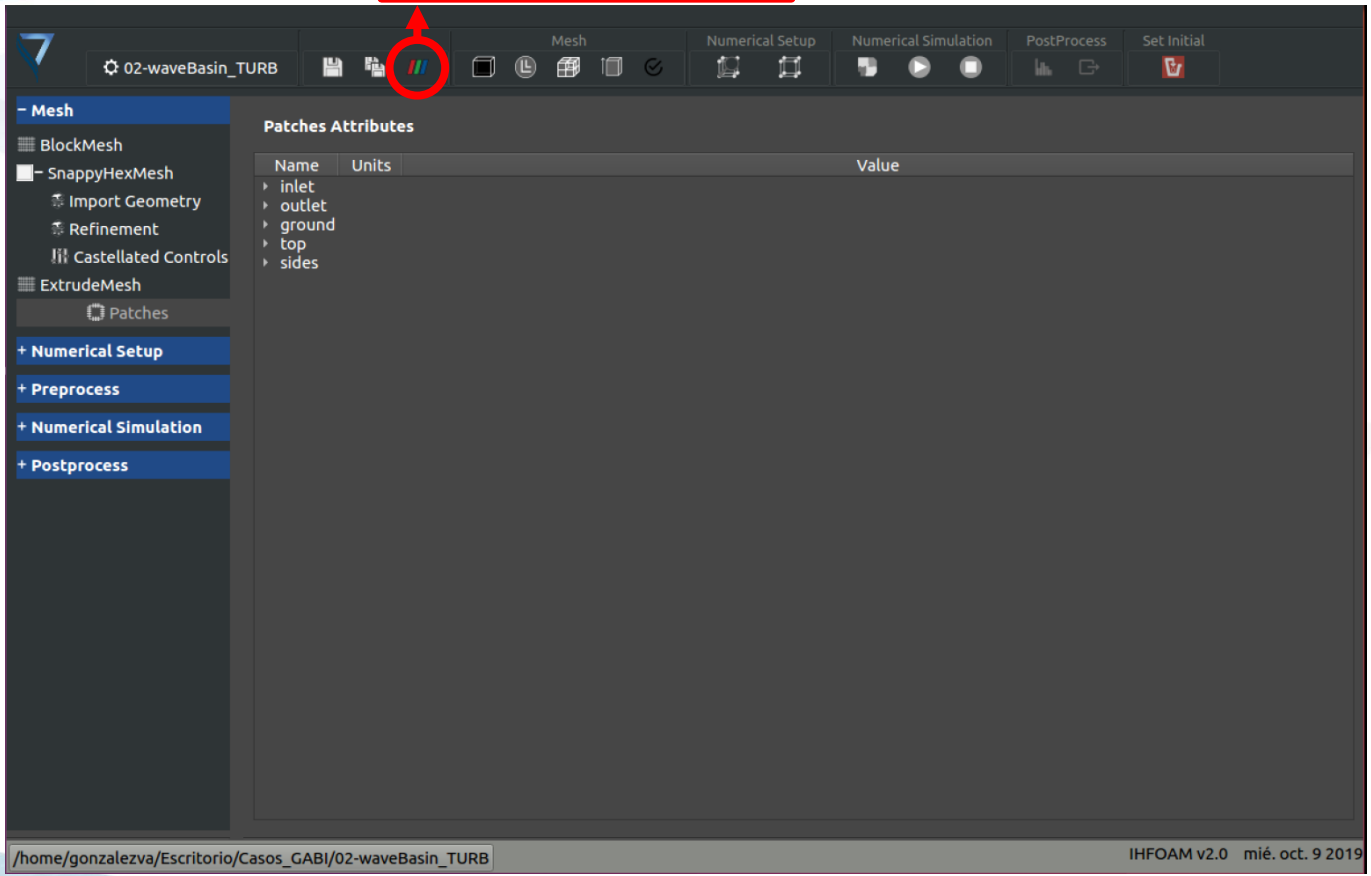
# Regular waves in empty basin (3D)



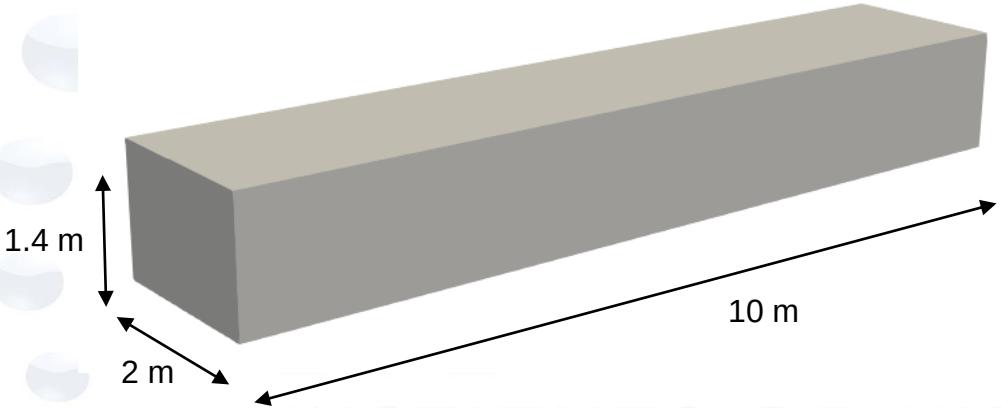
# Regular waves in empty basin (3D)

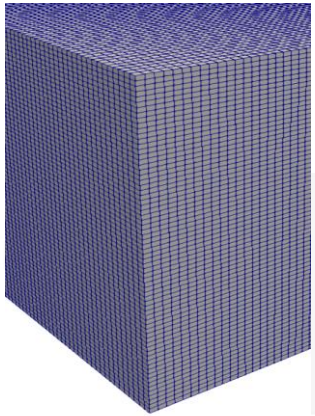


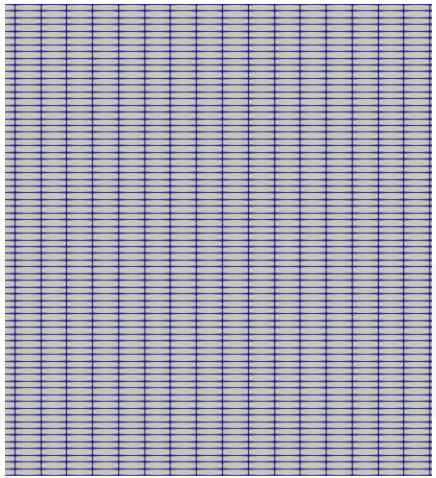
# Regular waves in empty basin (3D)



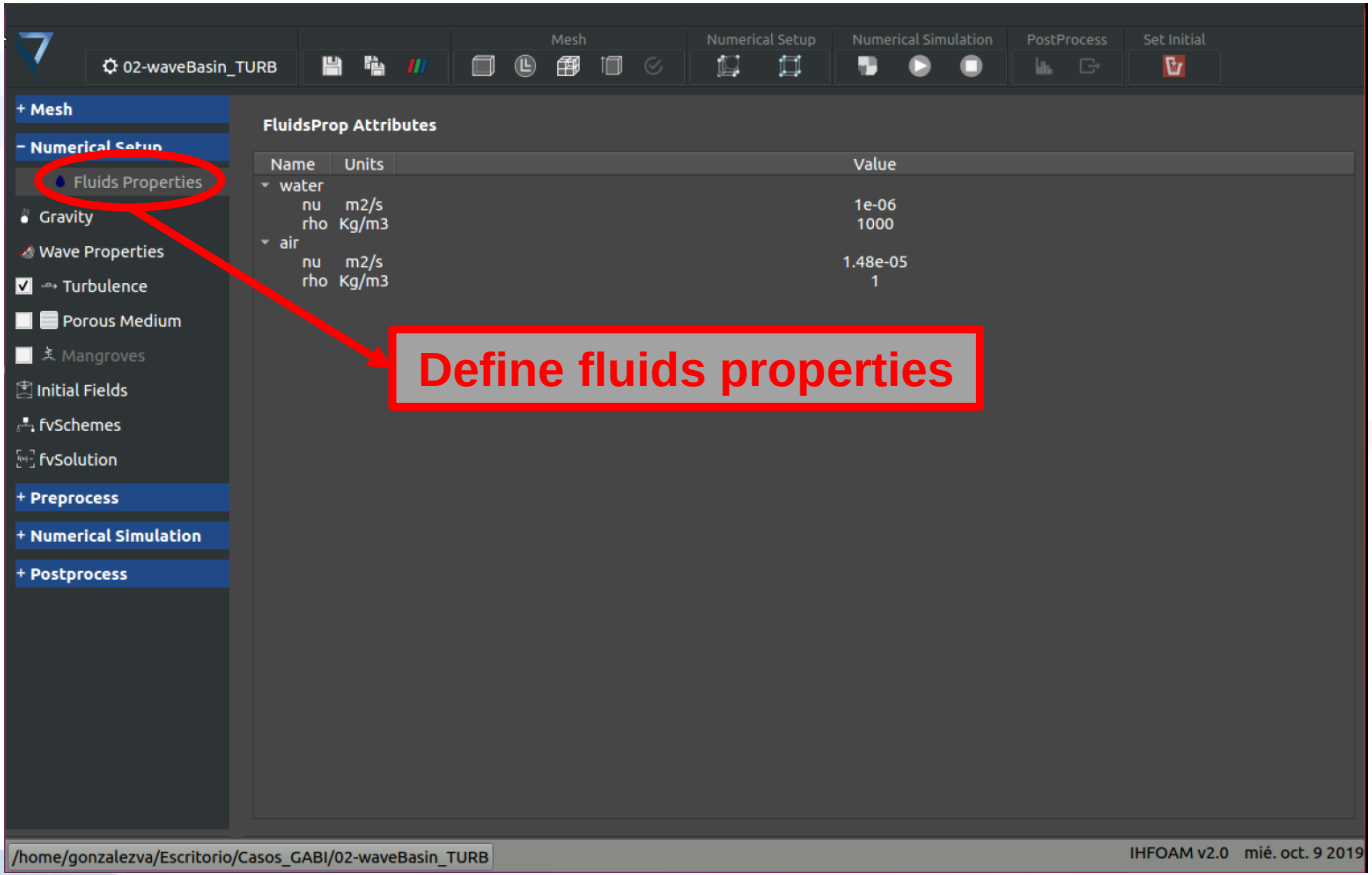
# Regular waves in empty basin (3D)



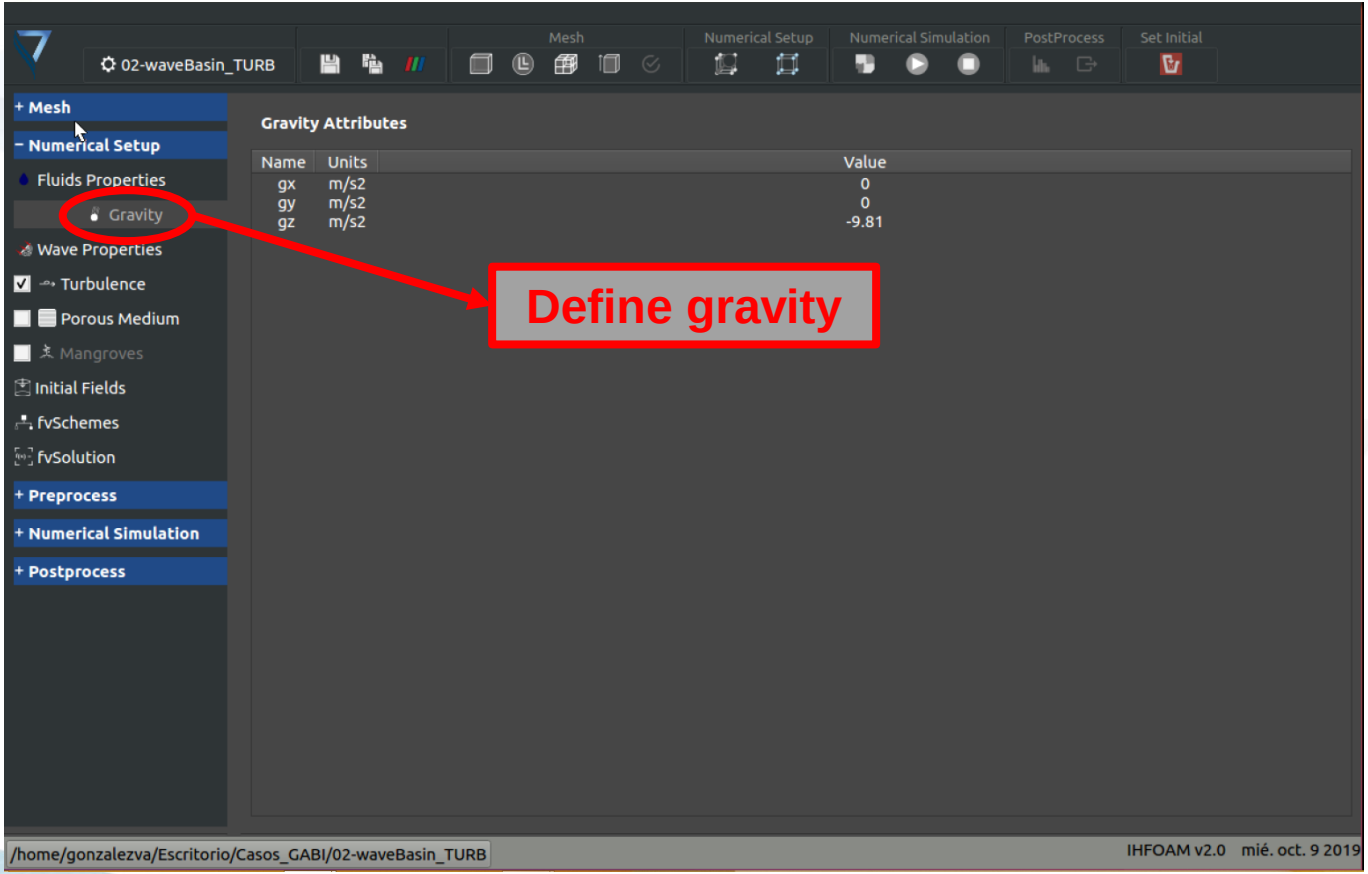





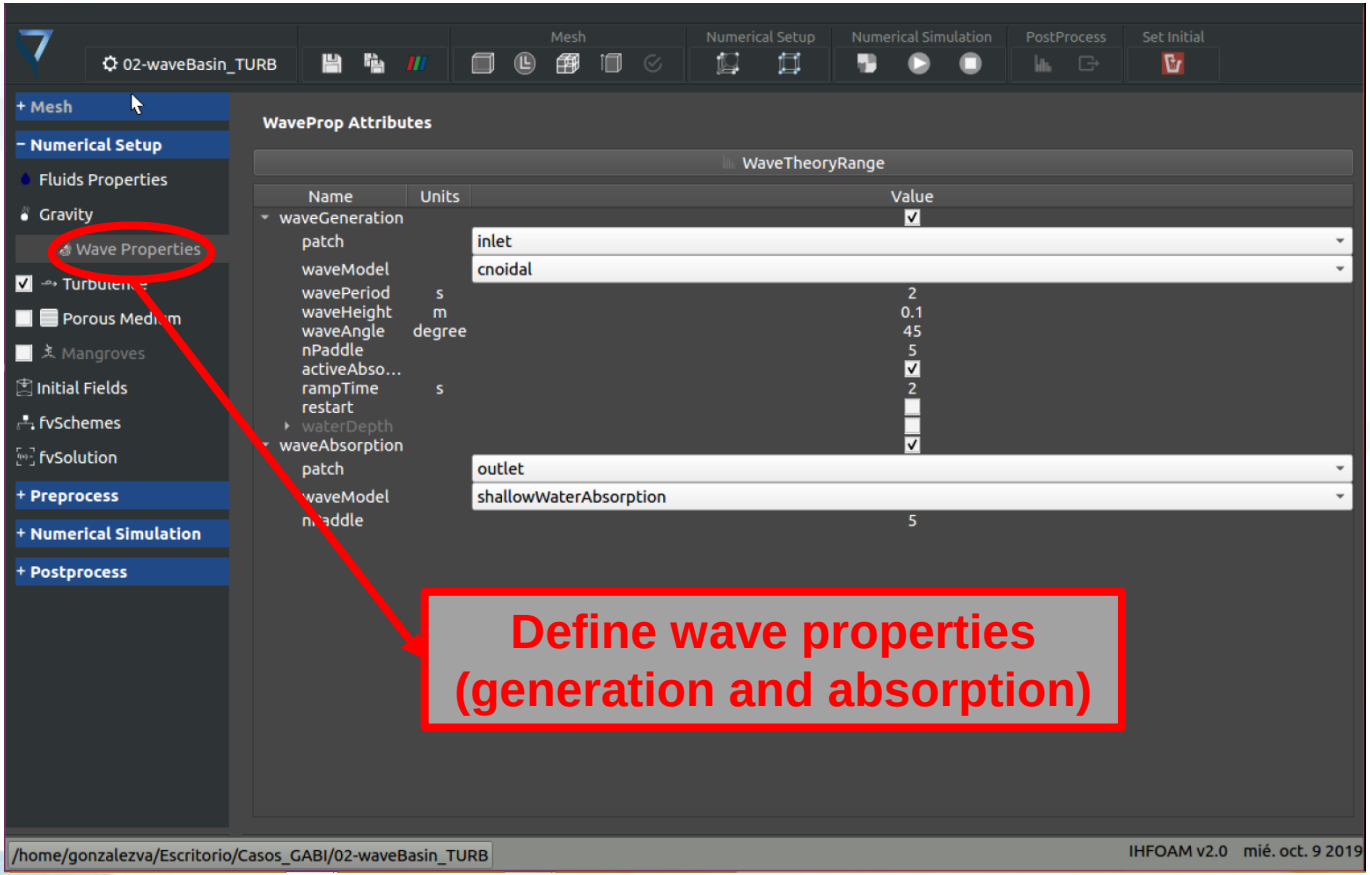
# Regular waves in empty basin (3D)



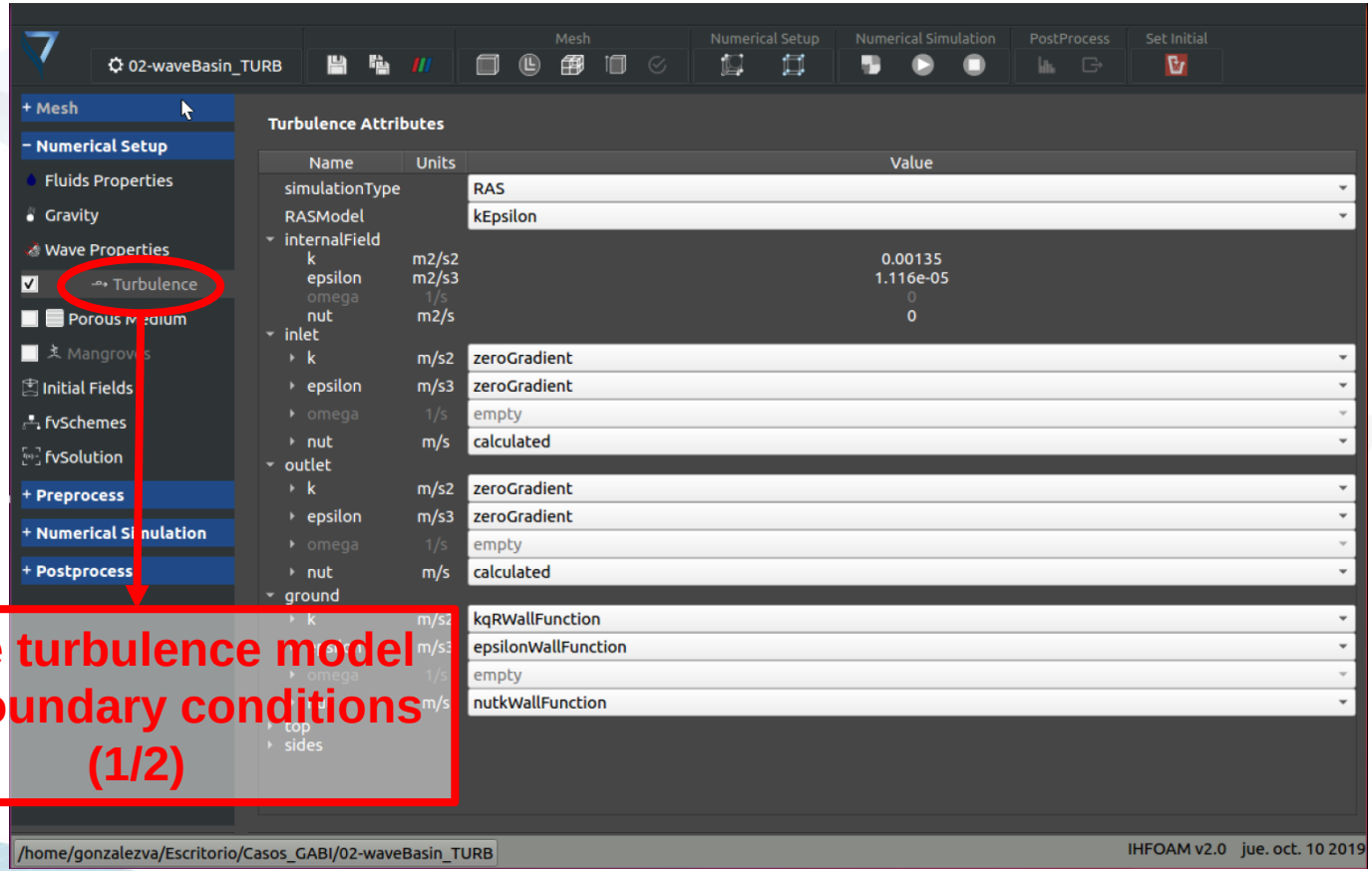
# Regular waves in empty basin (3D)



# Regular waves in empty basin (3D)

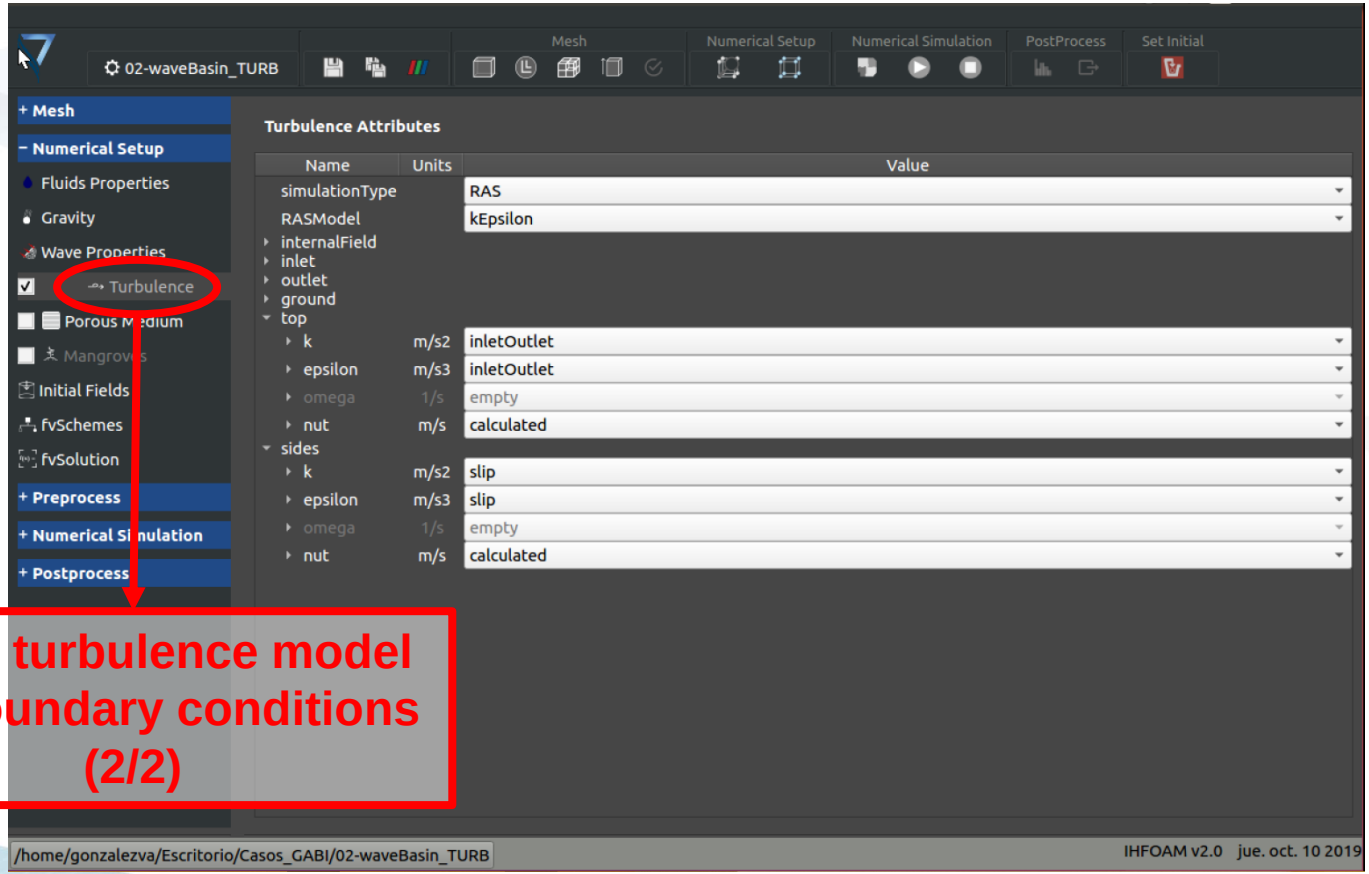


# Regular waves in empty basin (3D)



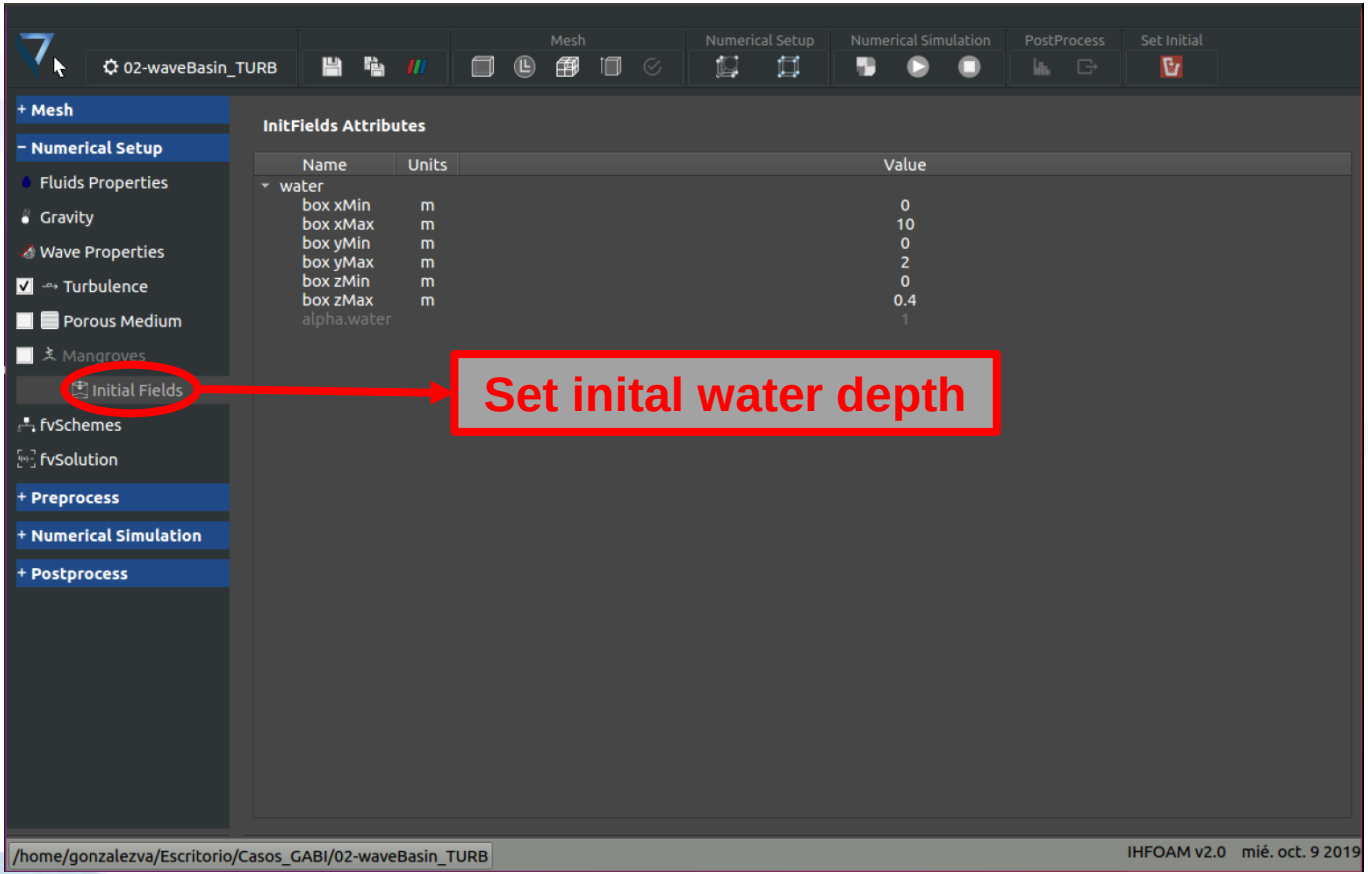

**Define turbulence model and boundary conditions (1/2)**

# Regular waves in empty basin (3D)

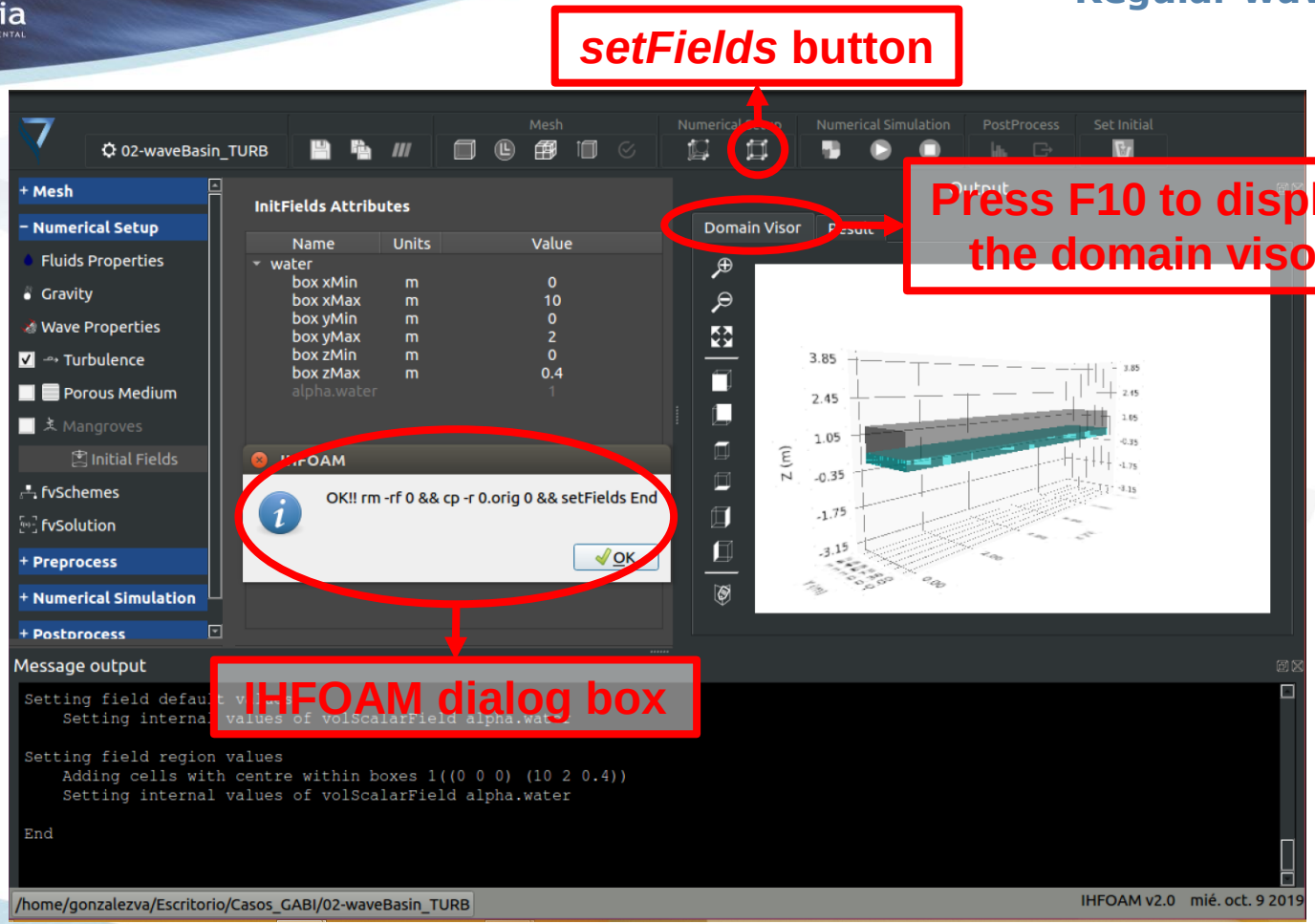



**Define turbulence model and boundary conditions (2/2)**

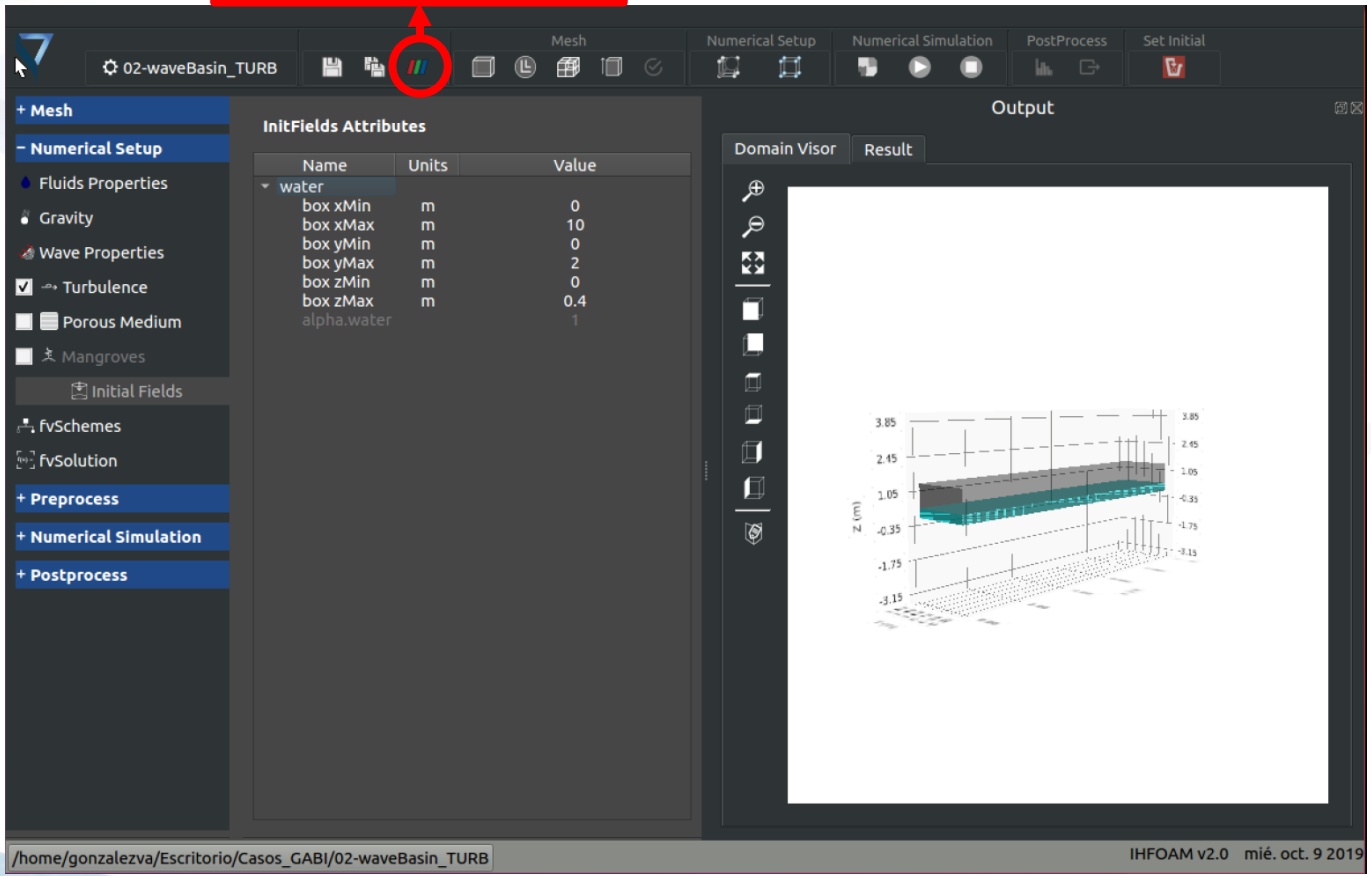
# Regular waves in empty basin (3D)



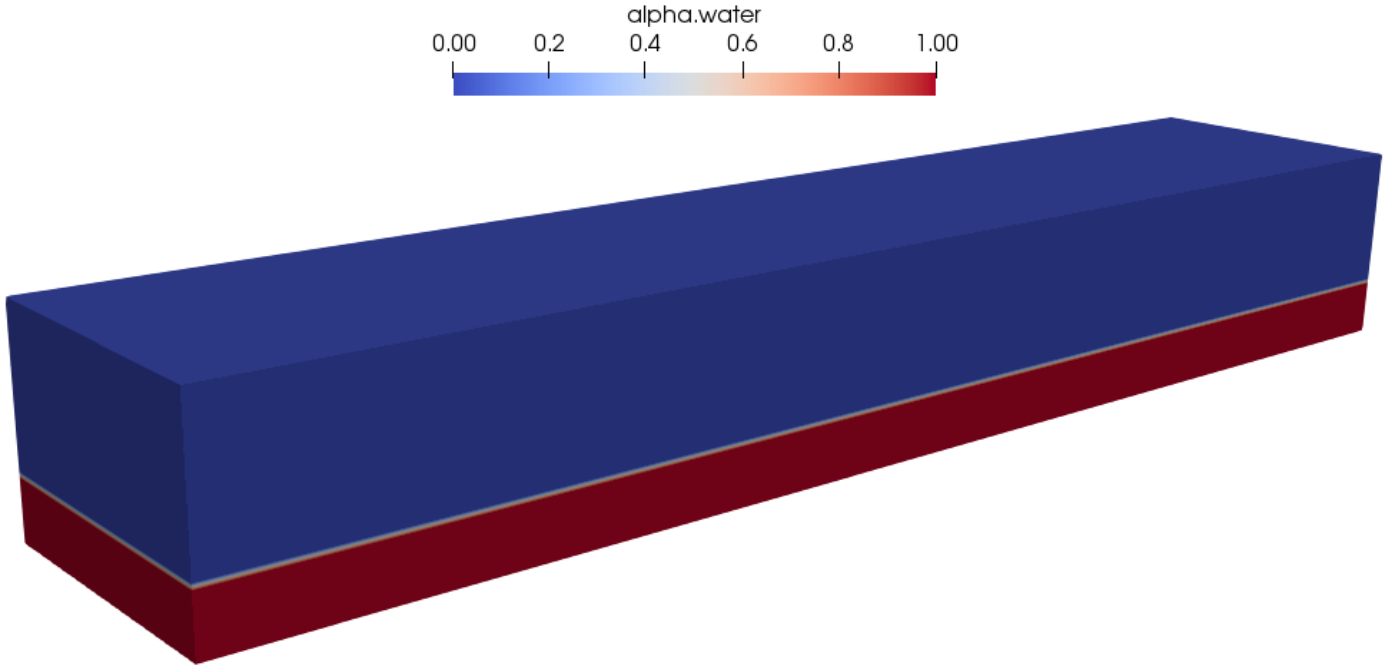
# Regular waves in empty basin (3D)



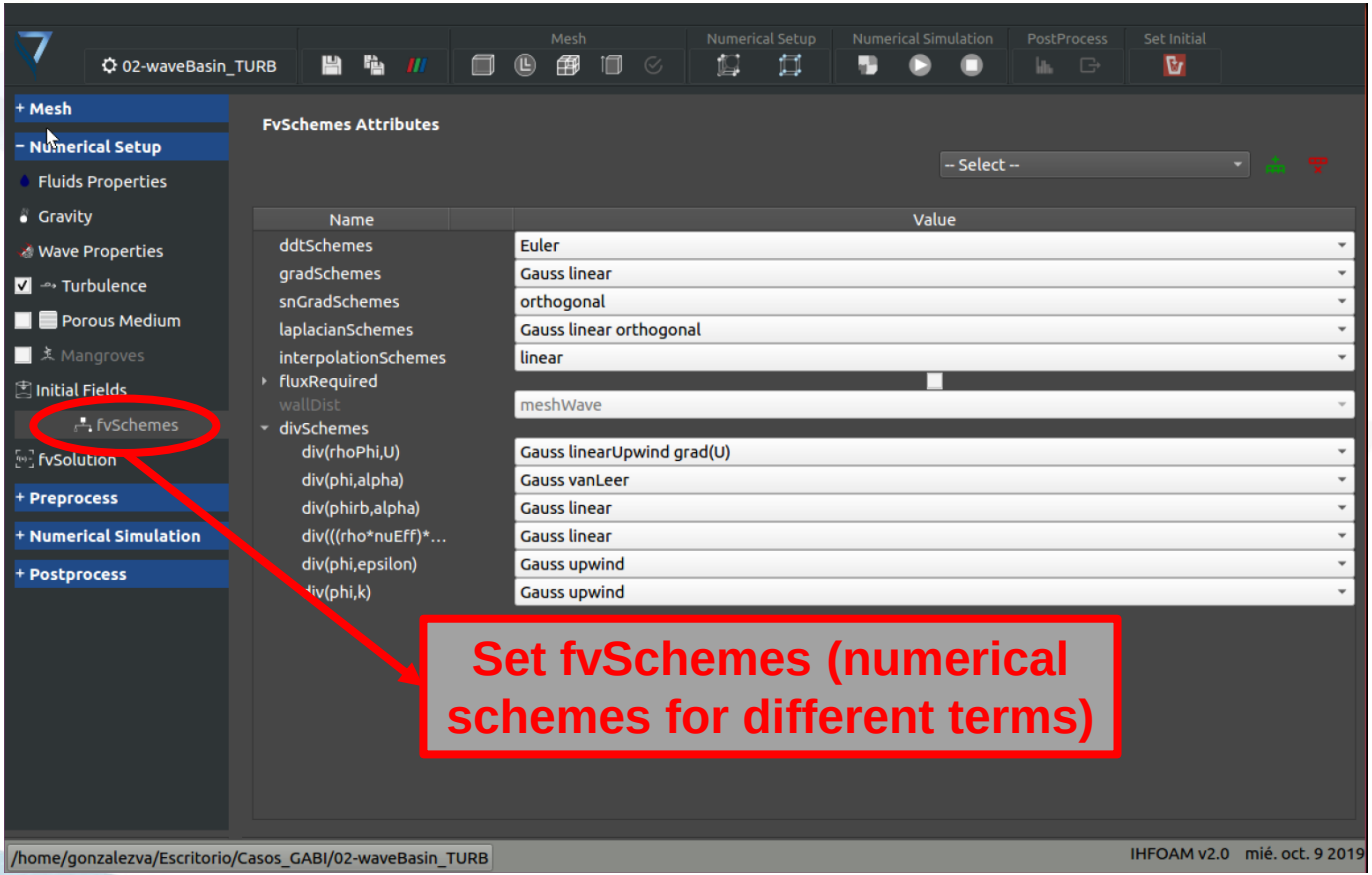
# Regular waves in empty basin (3D)



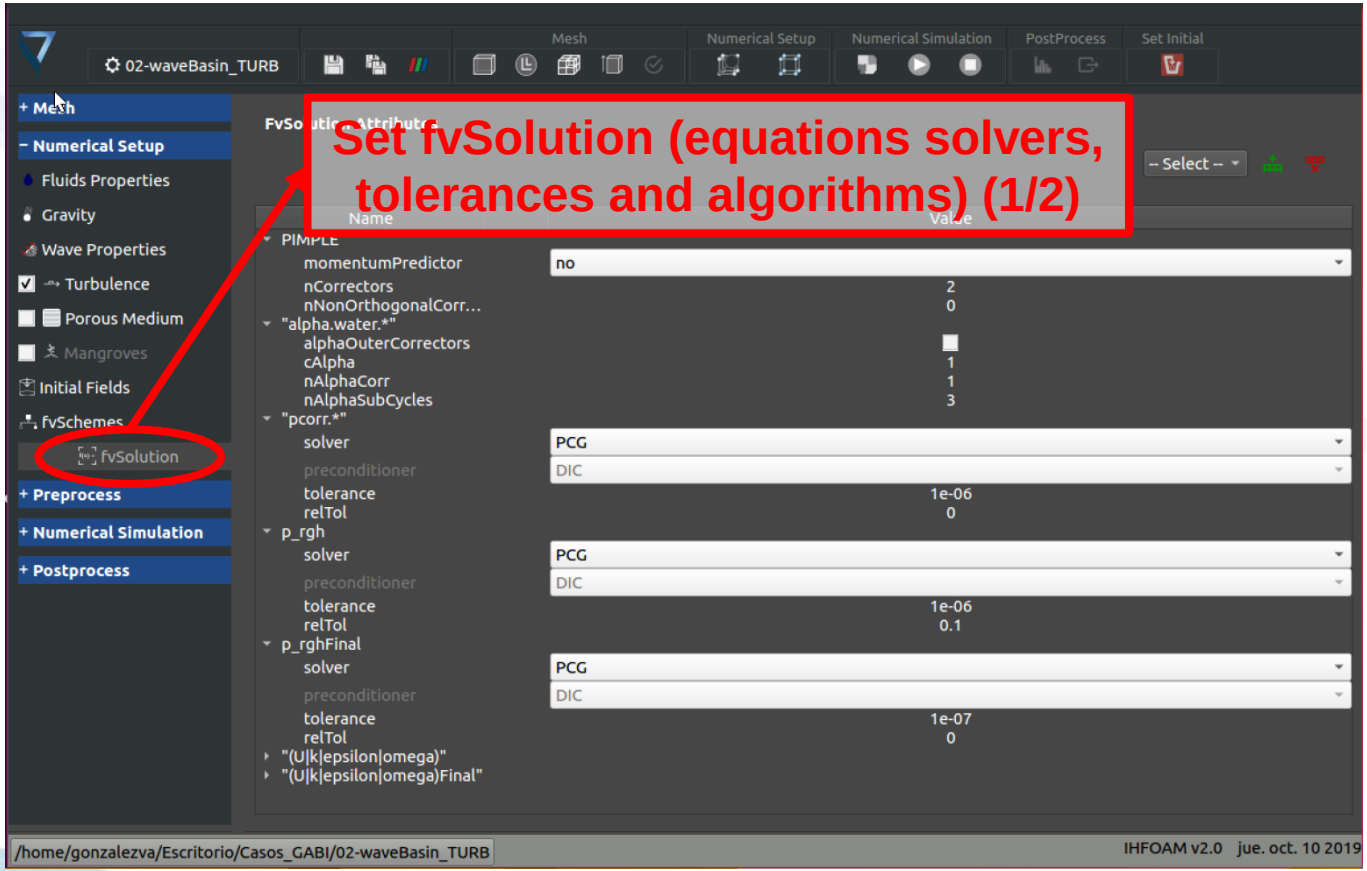
# Regular waves in empty basin (3D)



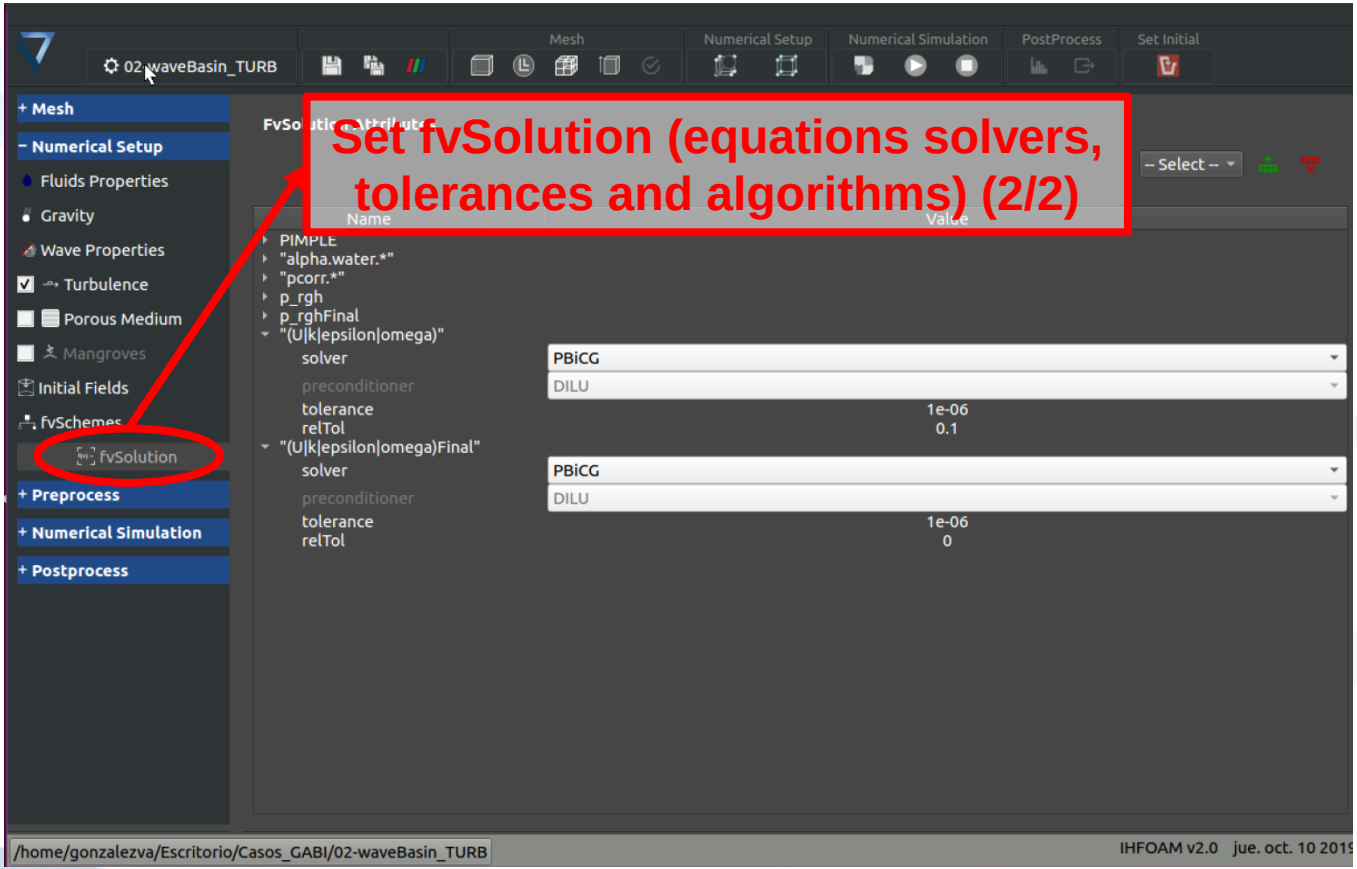
# Regular waves in empty basin (3D)



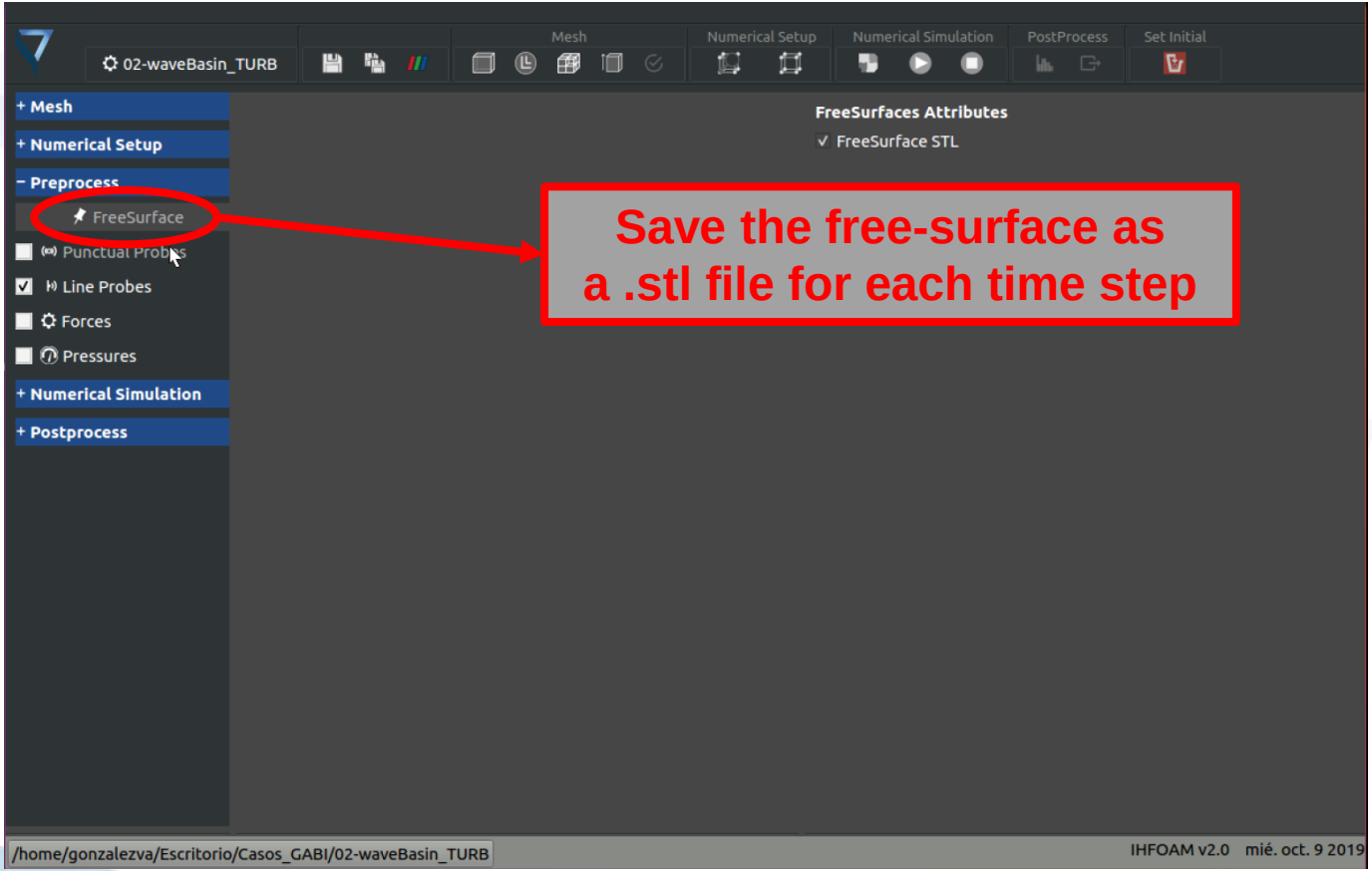
# Regular waves in empty basin (3D)



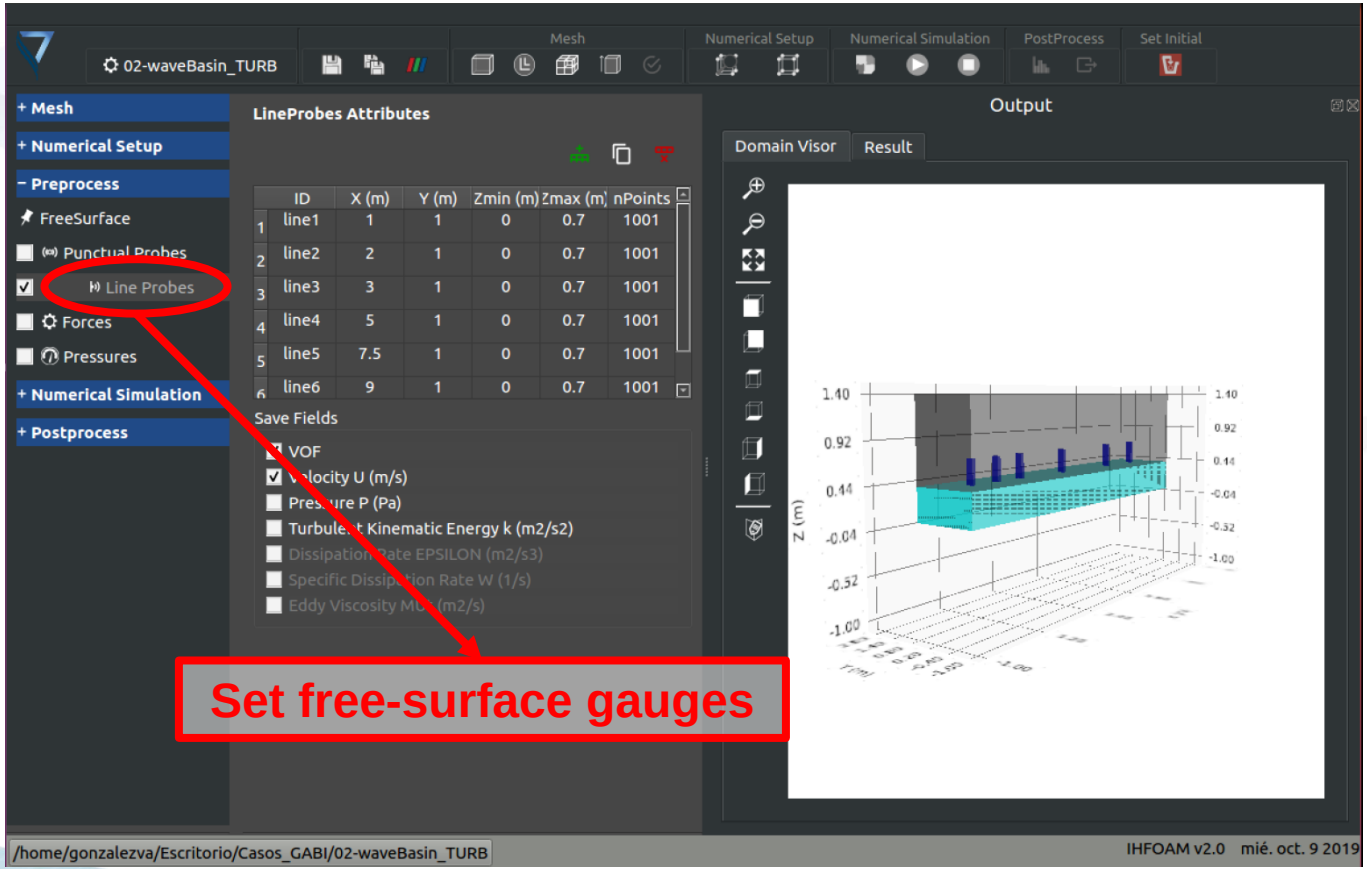
# Regular waves in empty basin (3D)



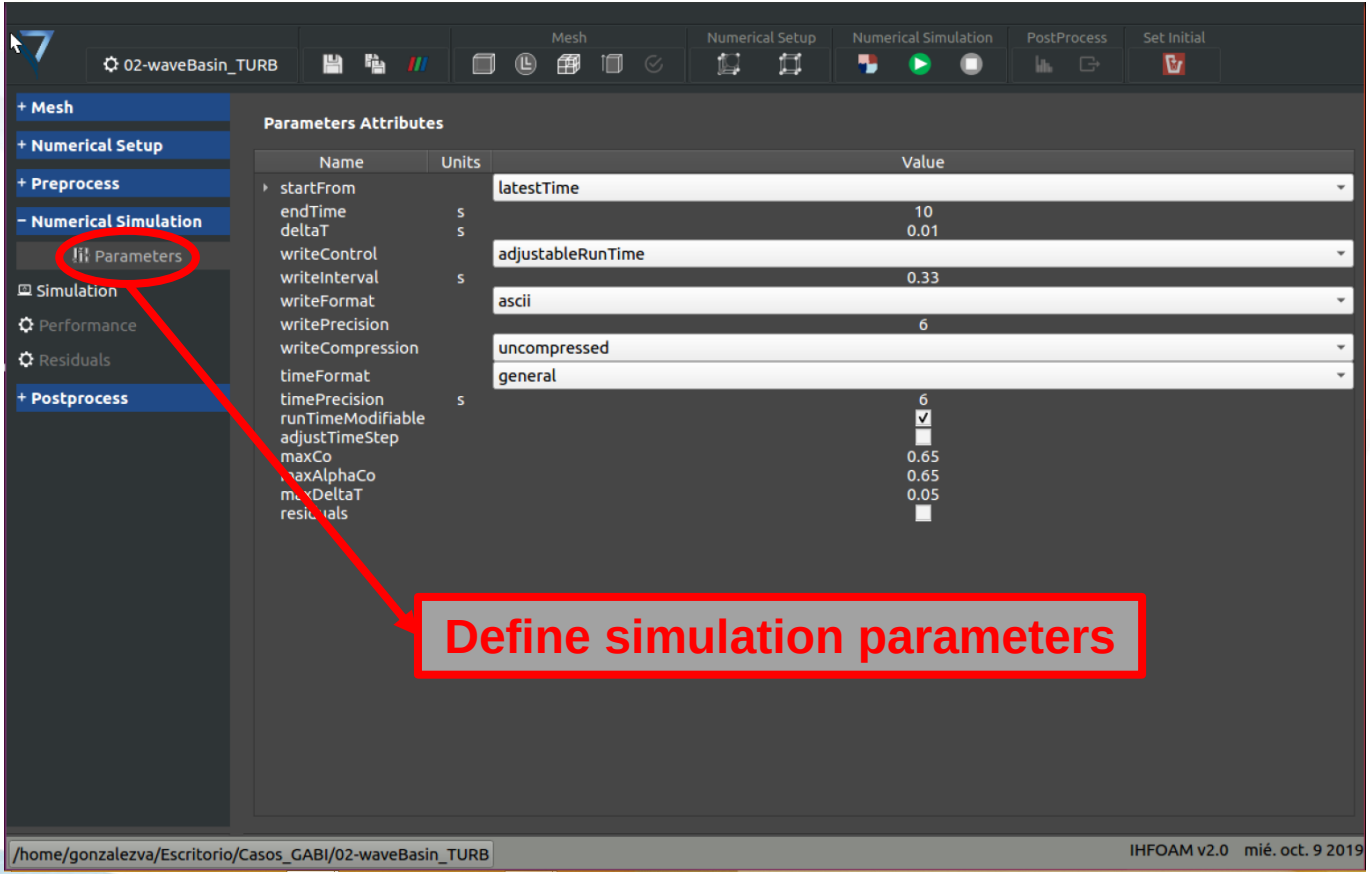
# Regular waves in empty basin (3D)



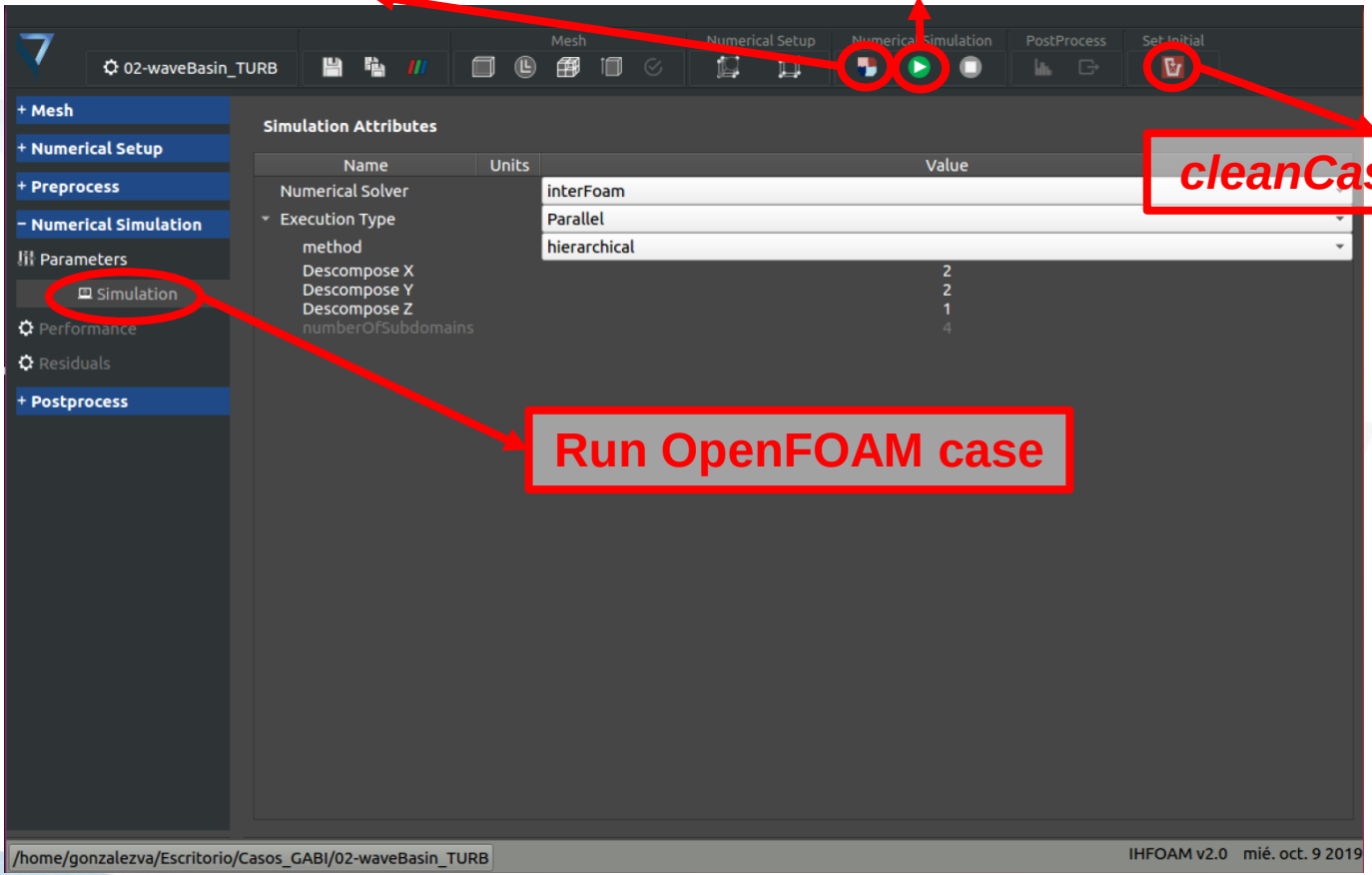
# Regular waves in empty basin (3D)



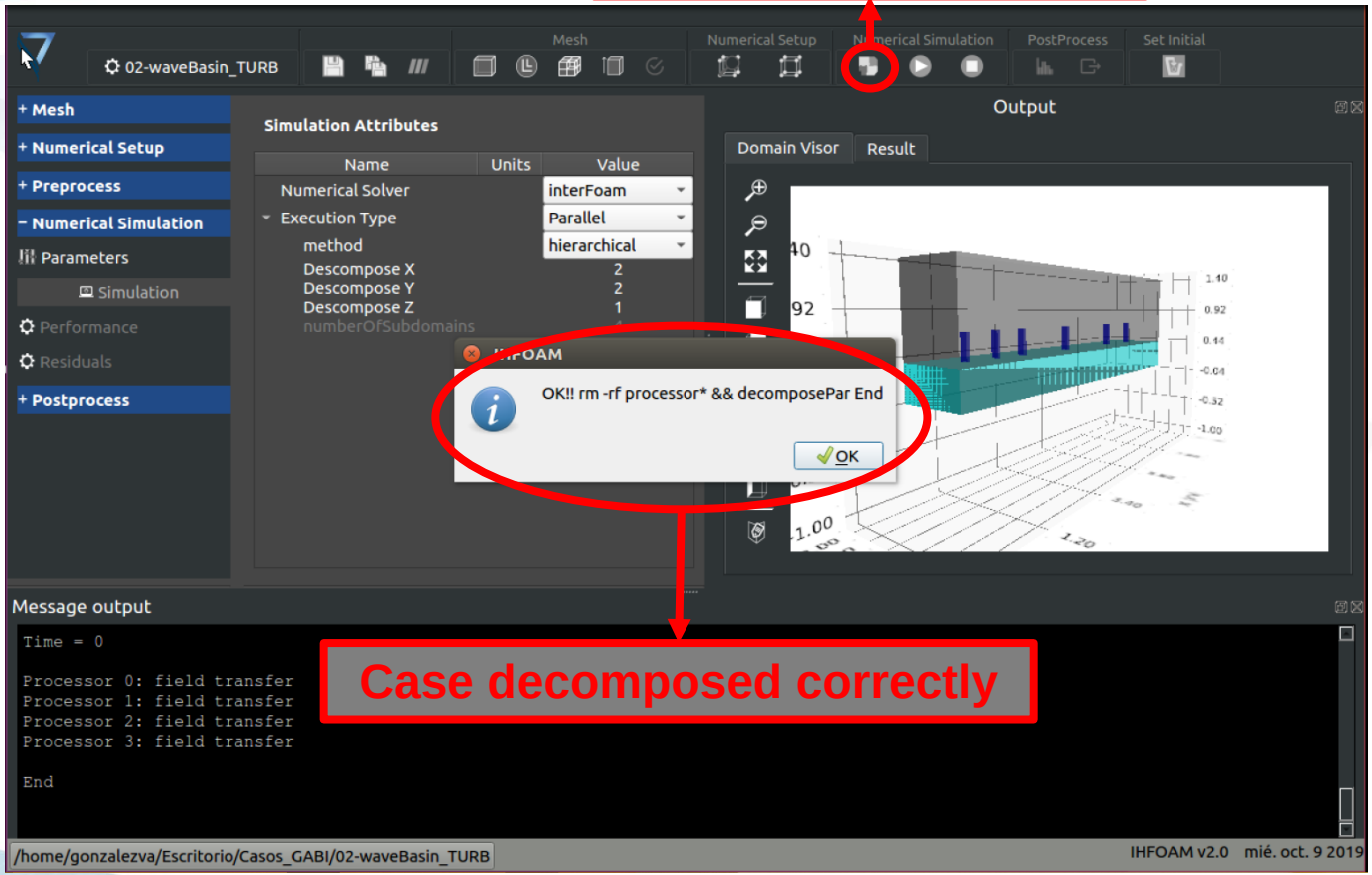
# Regular waves in empty basin (3D)



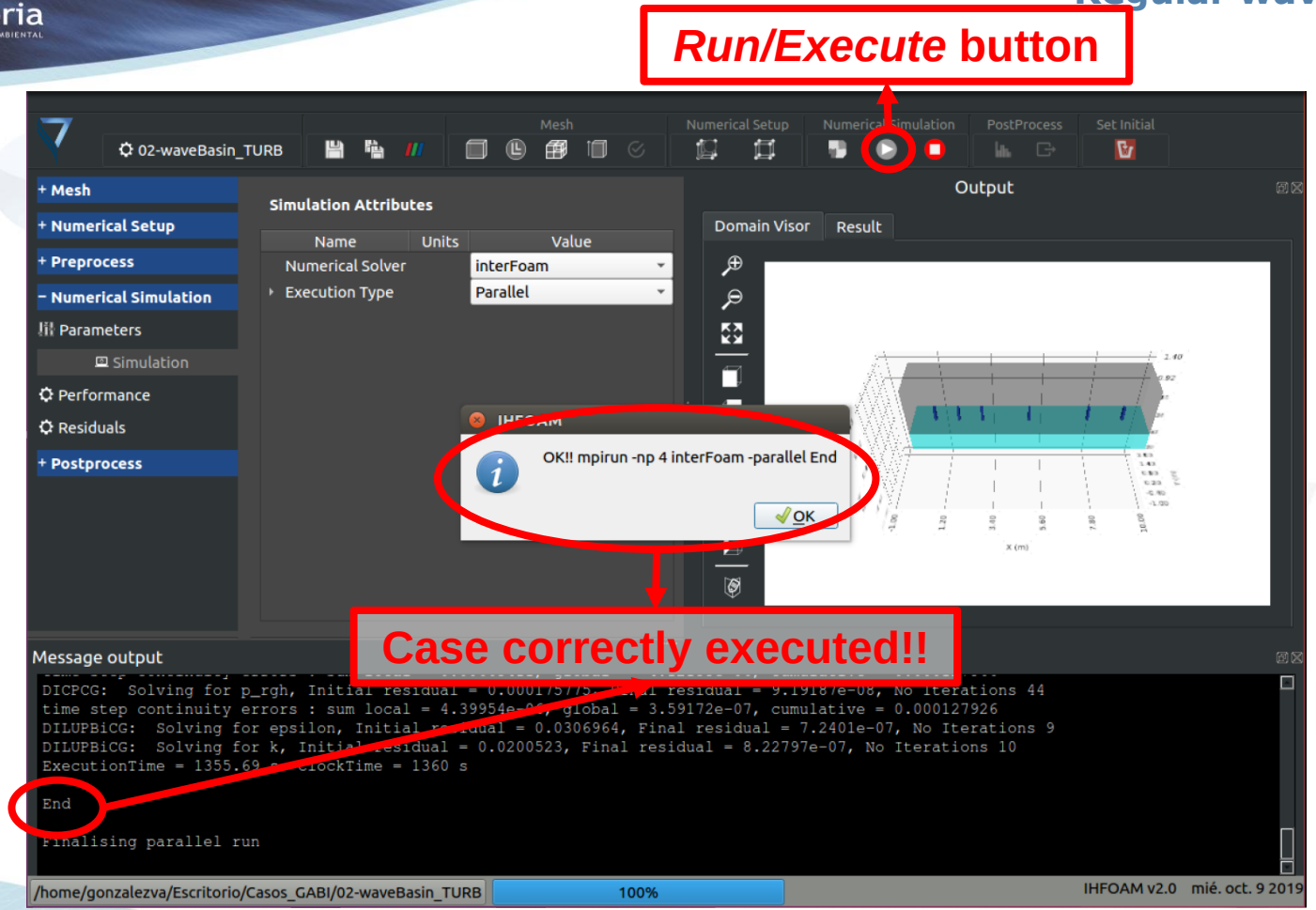
# Regular waves in empty basin (3D)



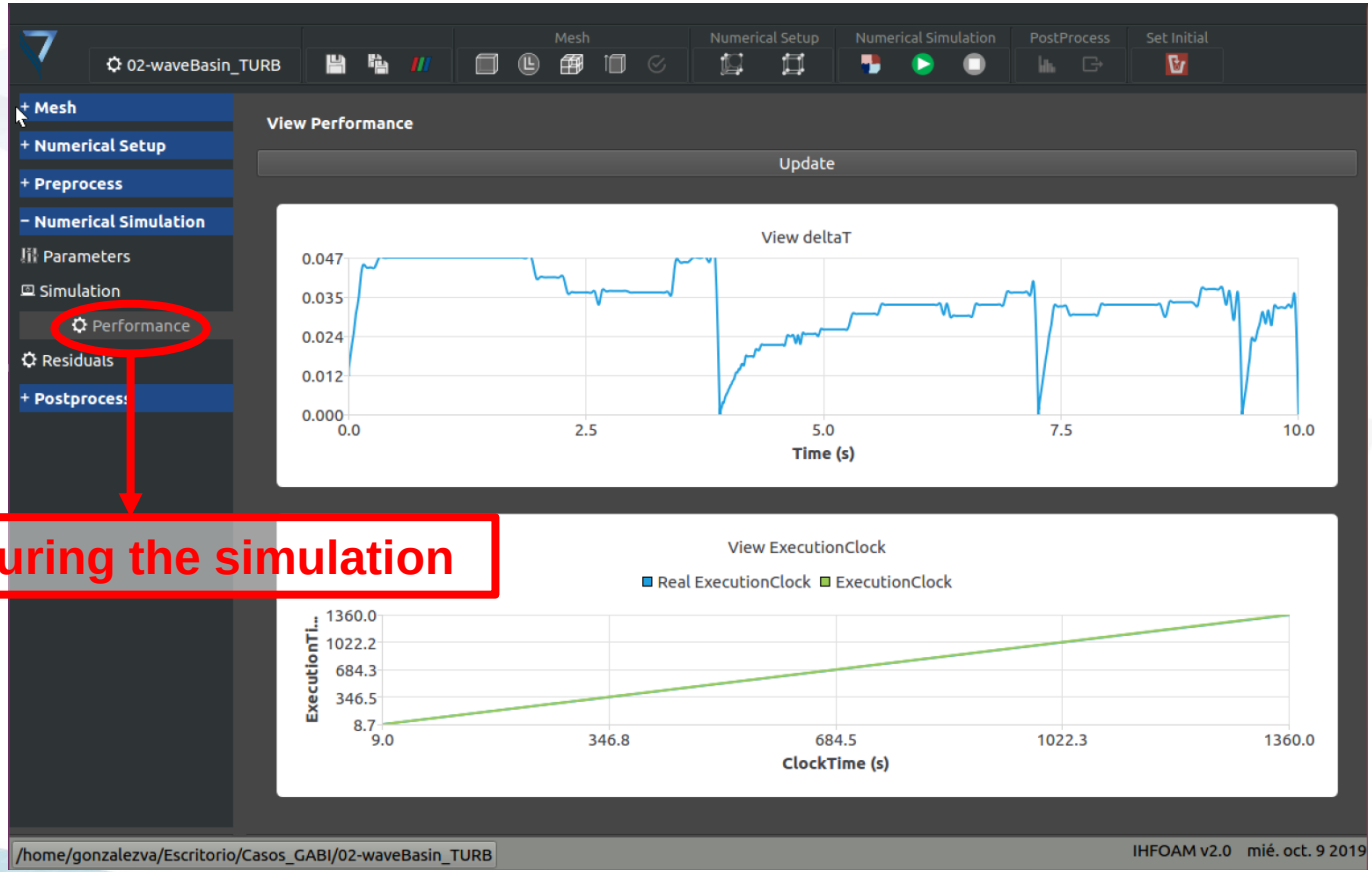
# Regular waves in empty basin (3D)



# Regular waves in empty basin (3D)

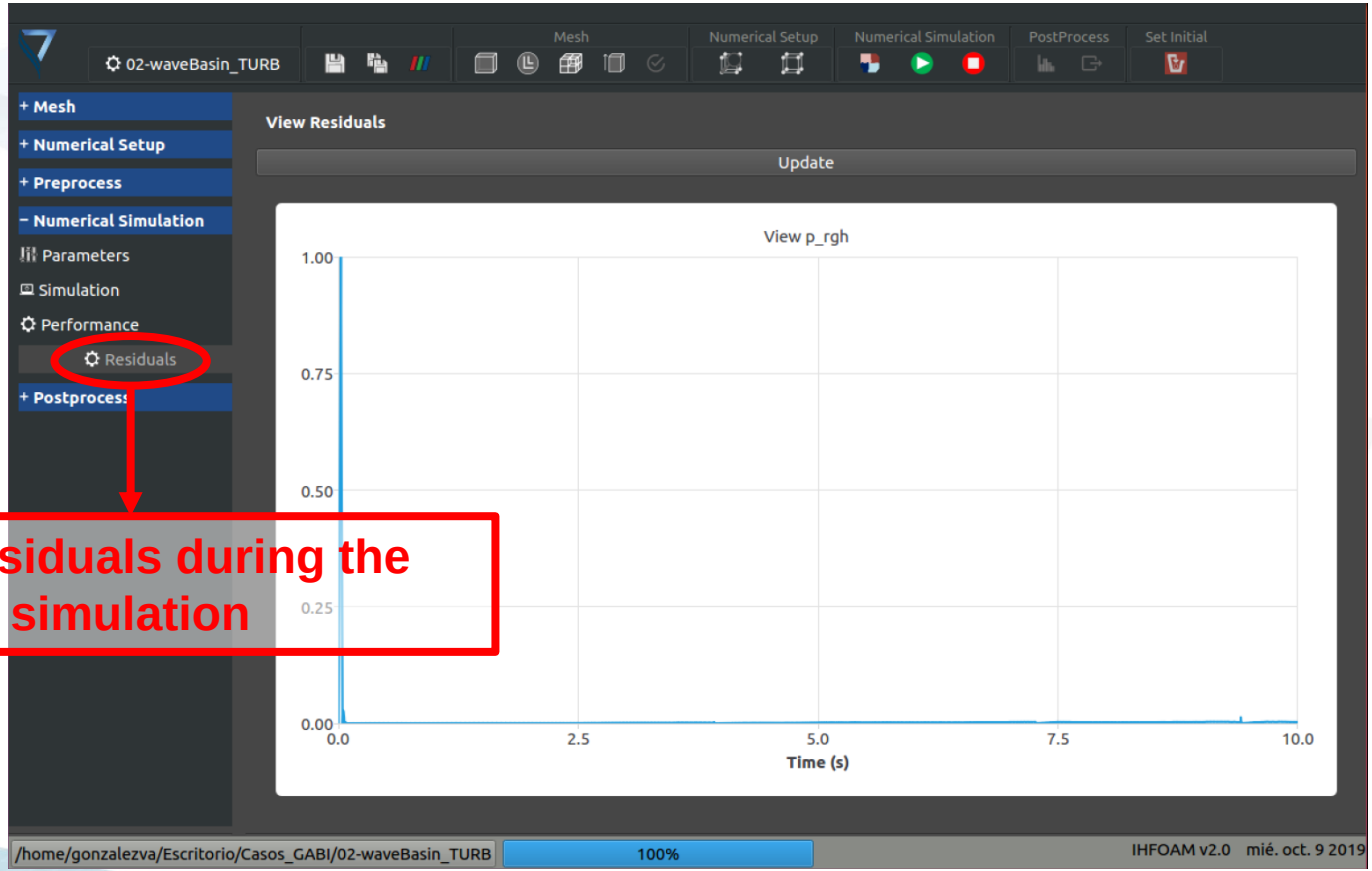


# Regular waves in empty basin (3D)




**plot dt during the simulation**

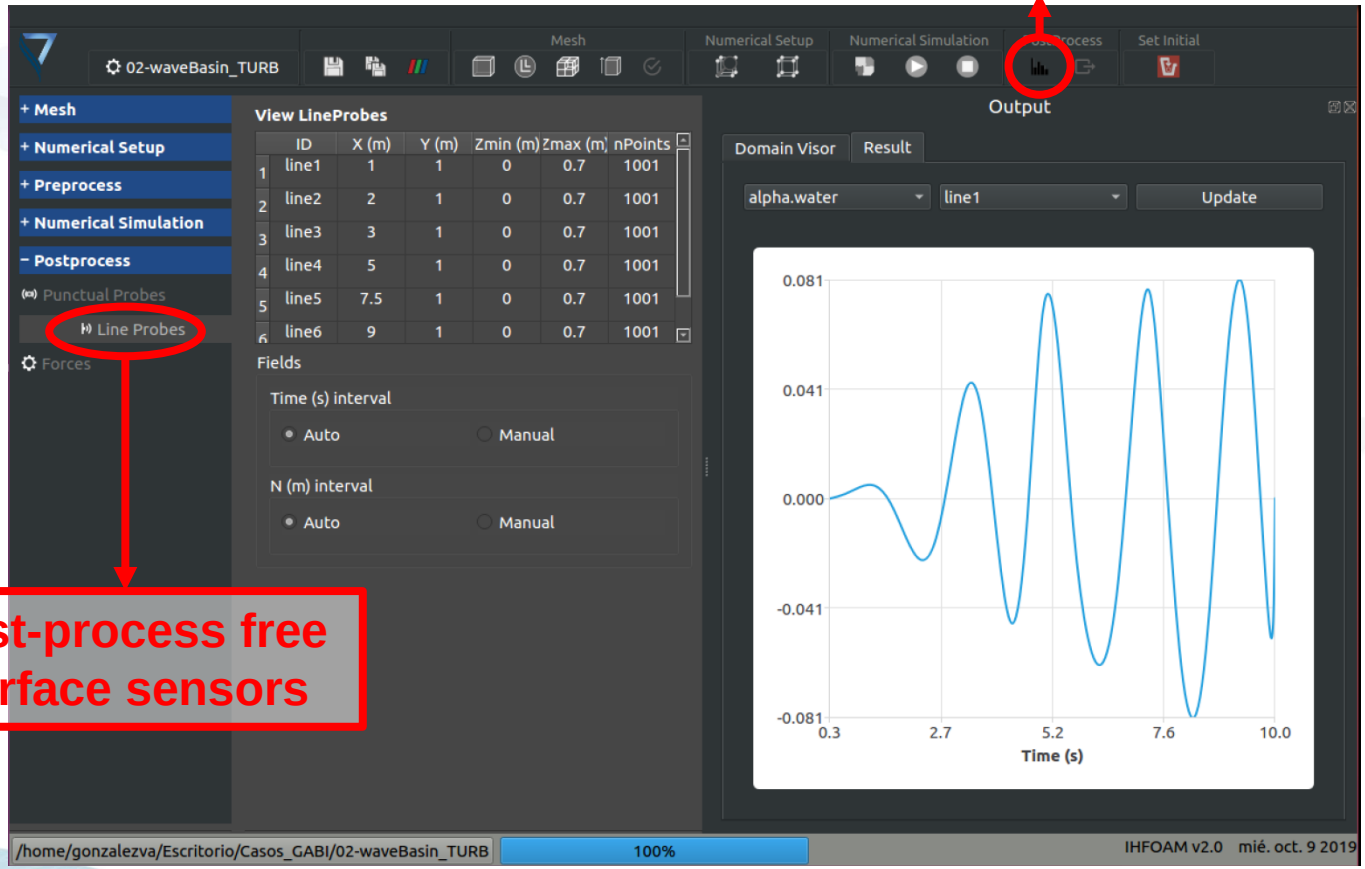
# Regular waves in empty basin (3D)




**plot residuals during the simulation**

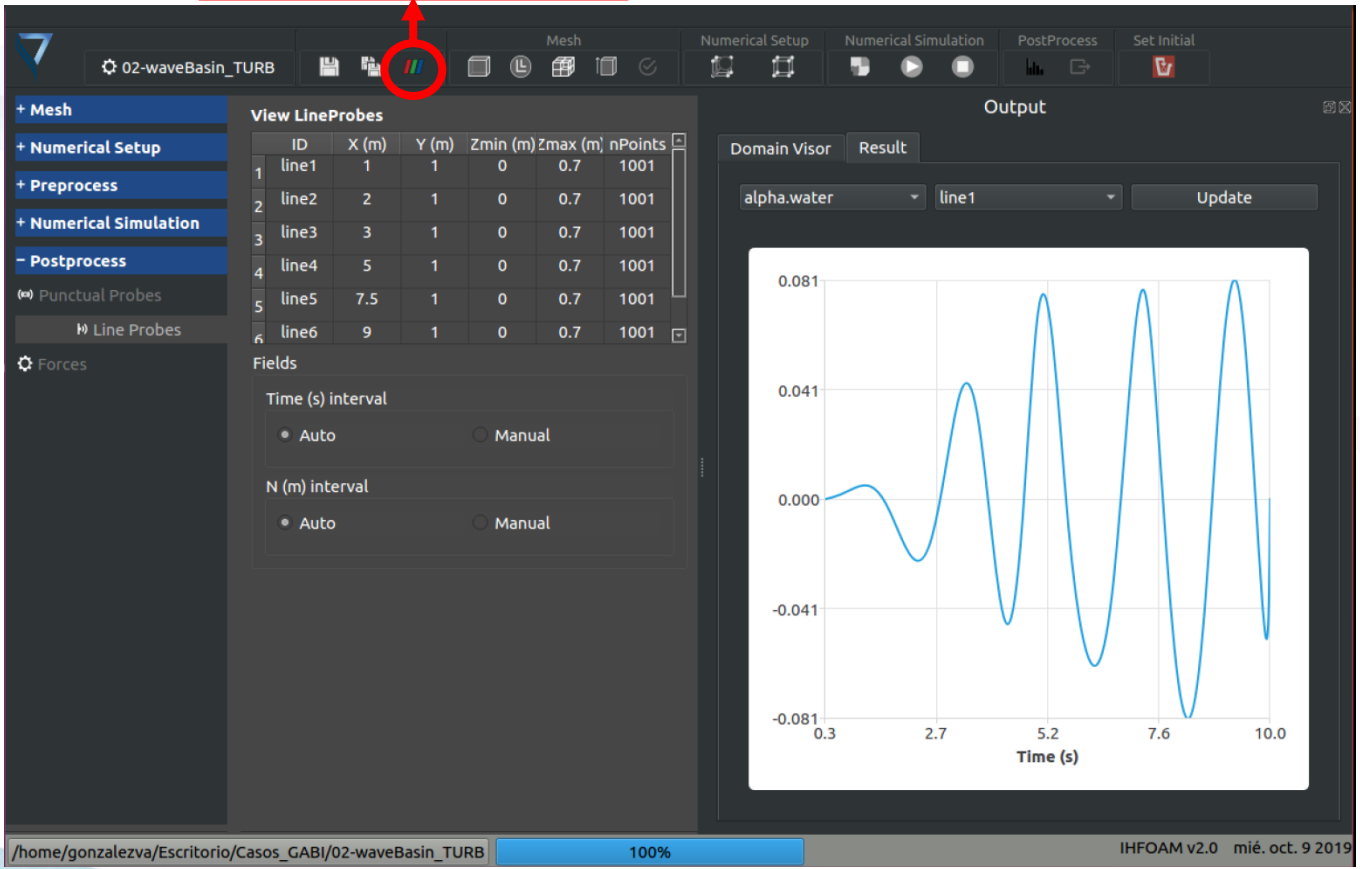
# Regular waves in empty basin (3D)

**plot free surface sensors**

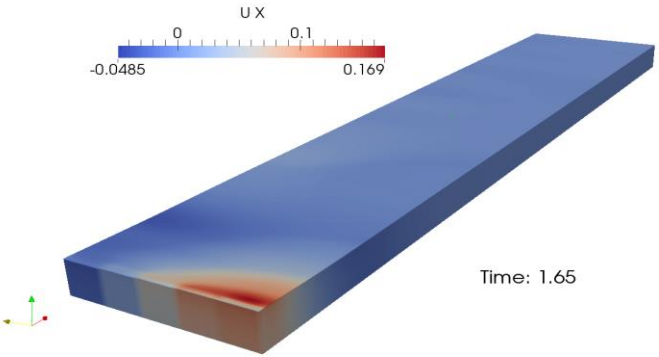


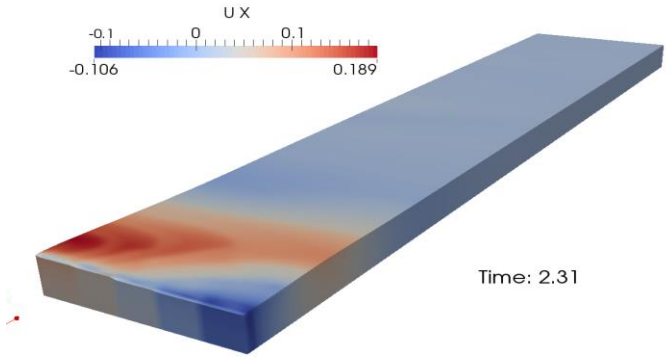

**Post-process free surface sensors**

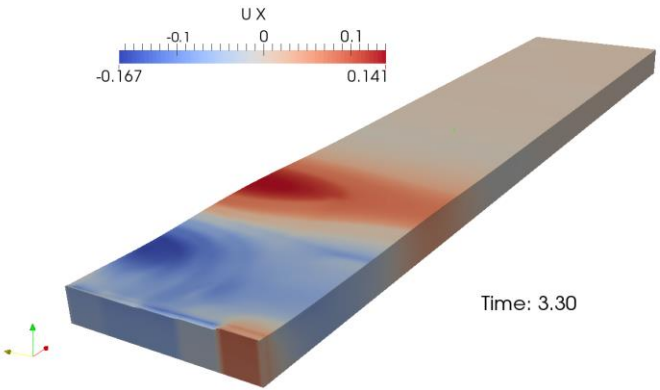
# Regular waves in empty basin (3D)

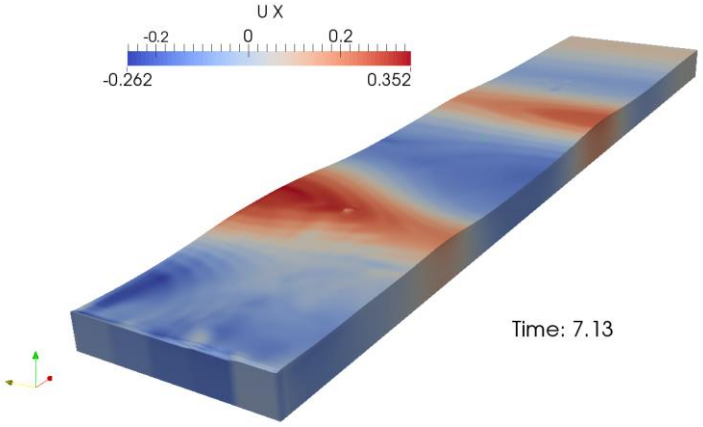


# Regular waves in empty basin (3D)



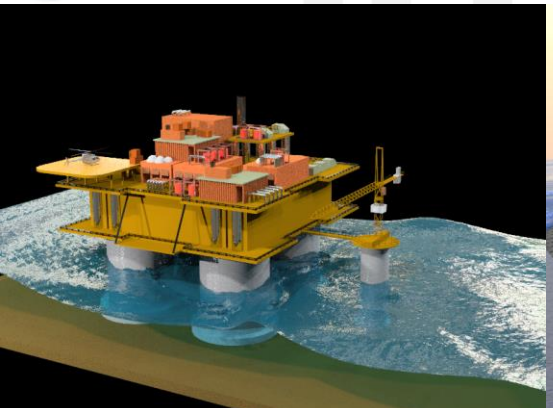



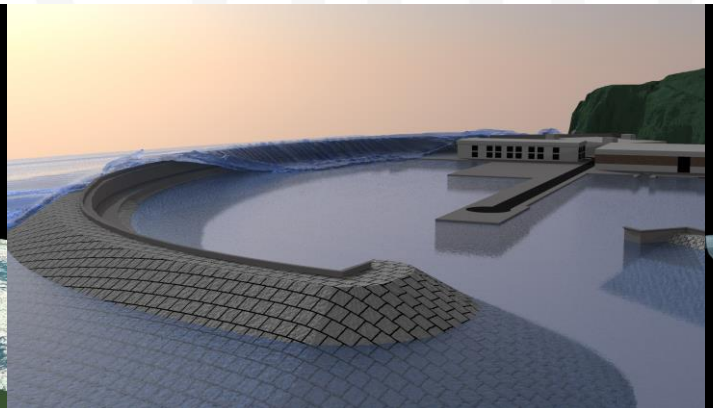



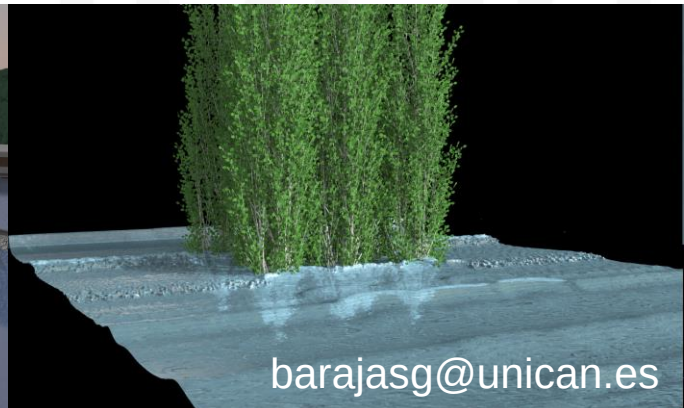
IH cantabria
INSTITUTO DE HIDRÁULICA AMBIENTAL
UNIVERSIDAD DE CANTABRIA

# IHFOAM

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







barajasg@unican.es