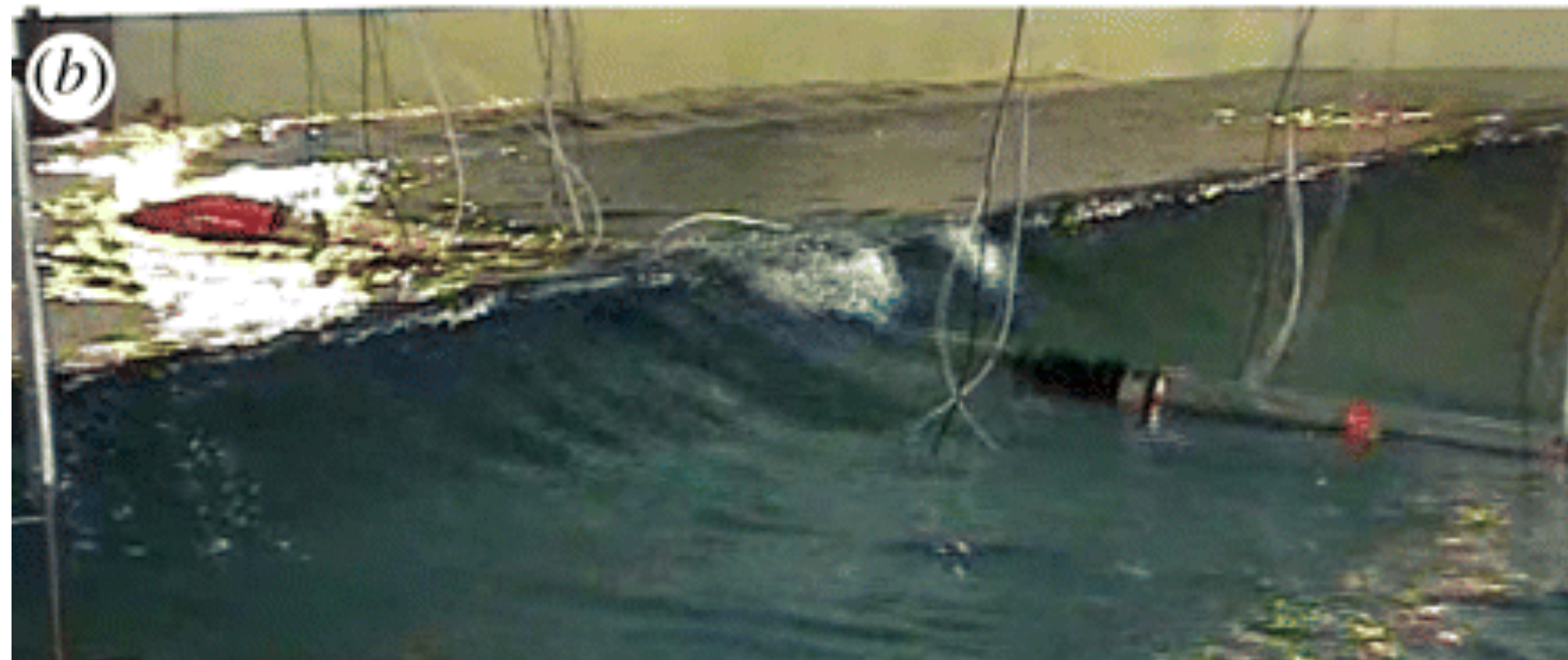
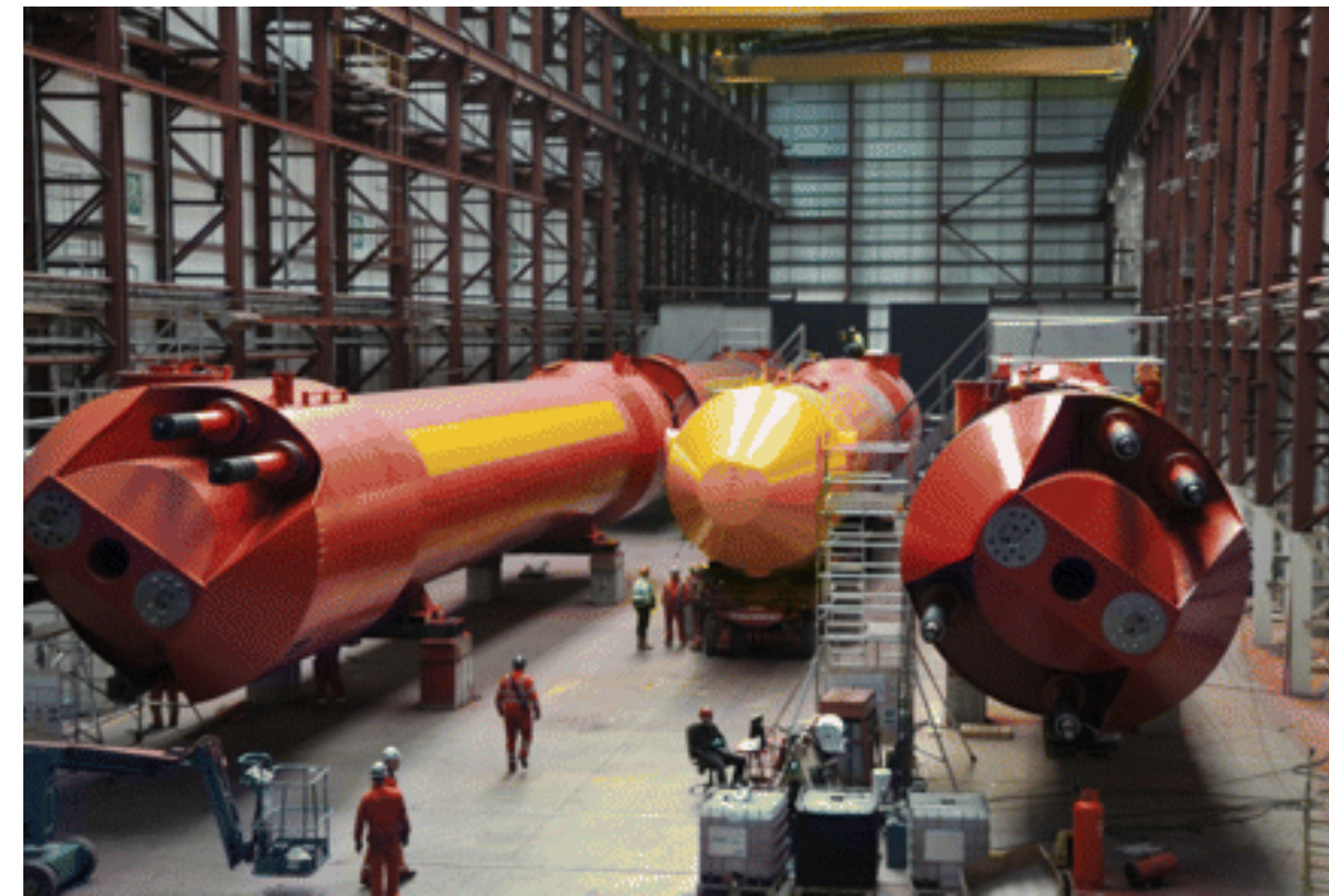
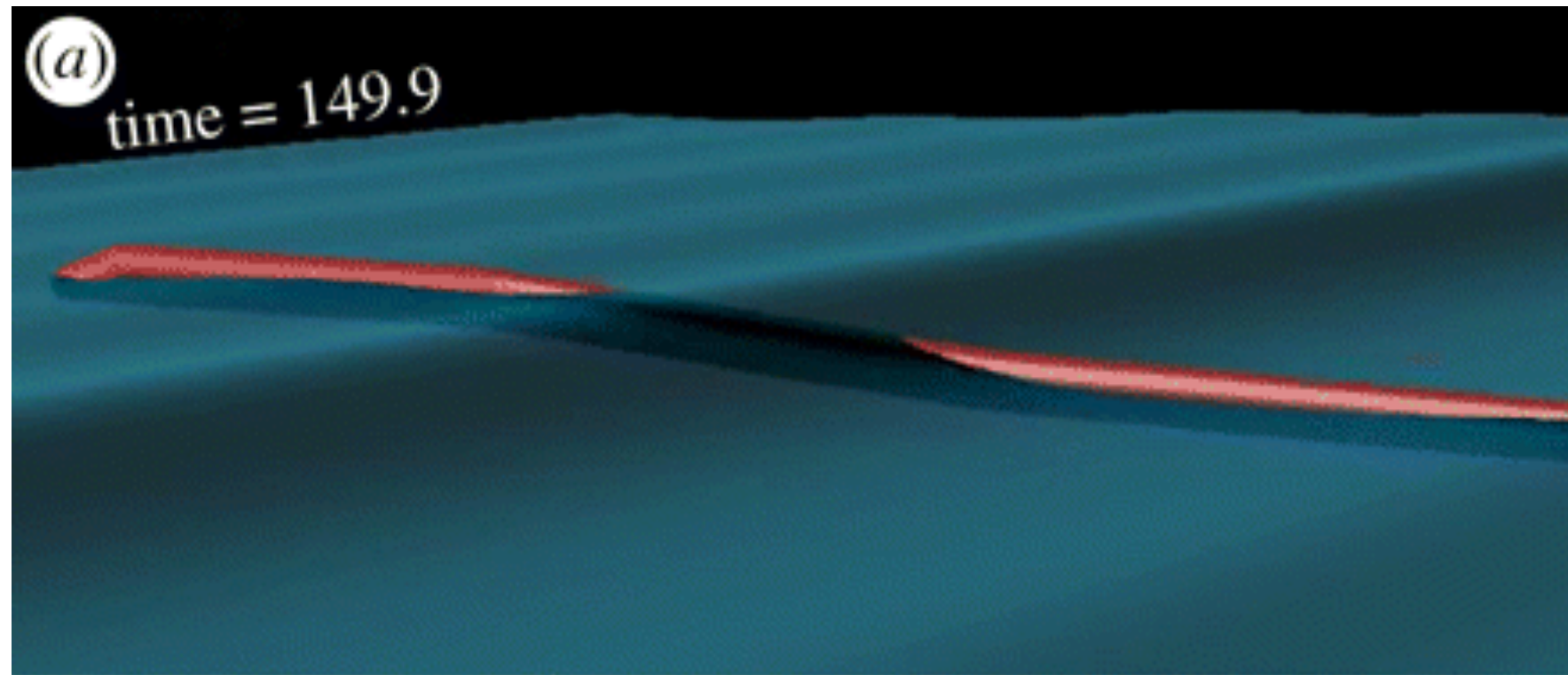


# Experimental design: similarity

## Geometrical similarity

*The model and full scale structures must have the same shape*

**All linear dimensions must have the same scale ratio:**  $\lambda = L_F / L_M$



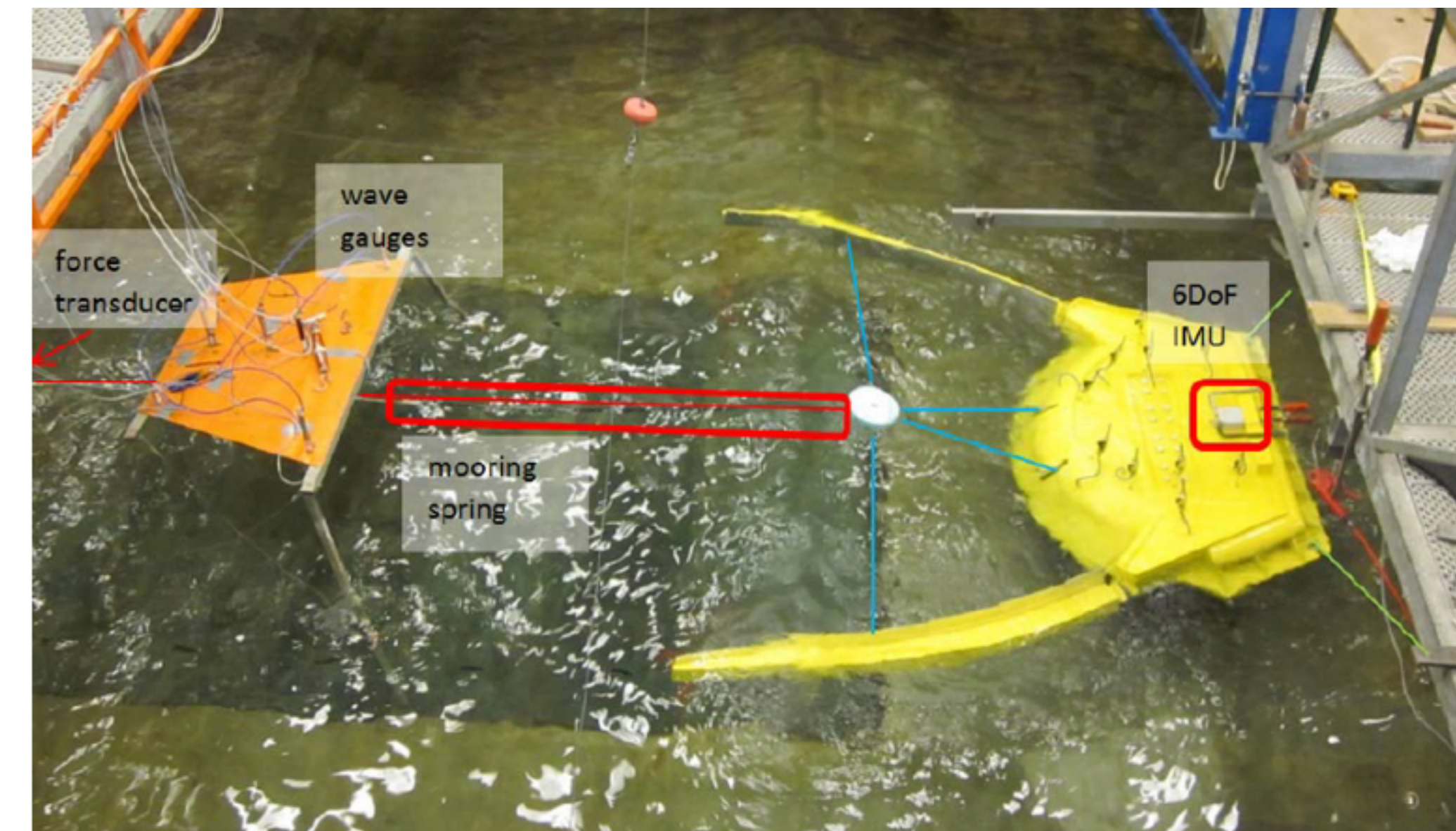
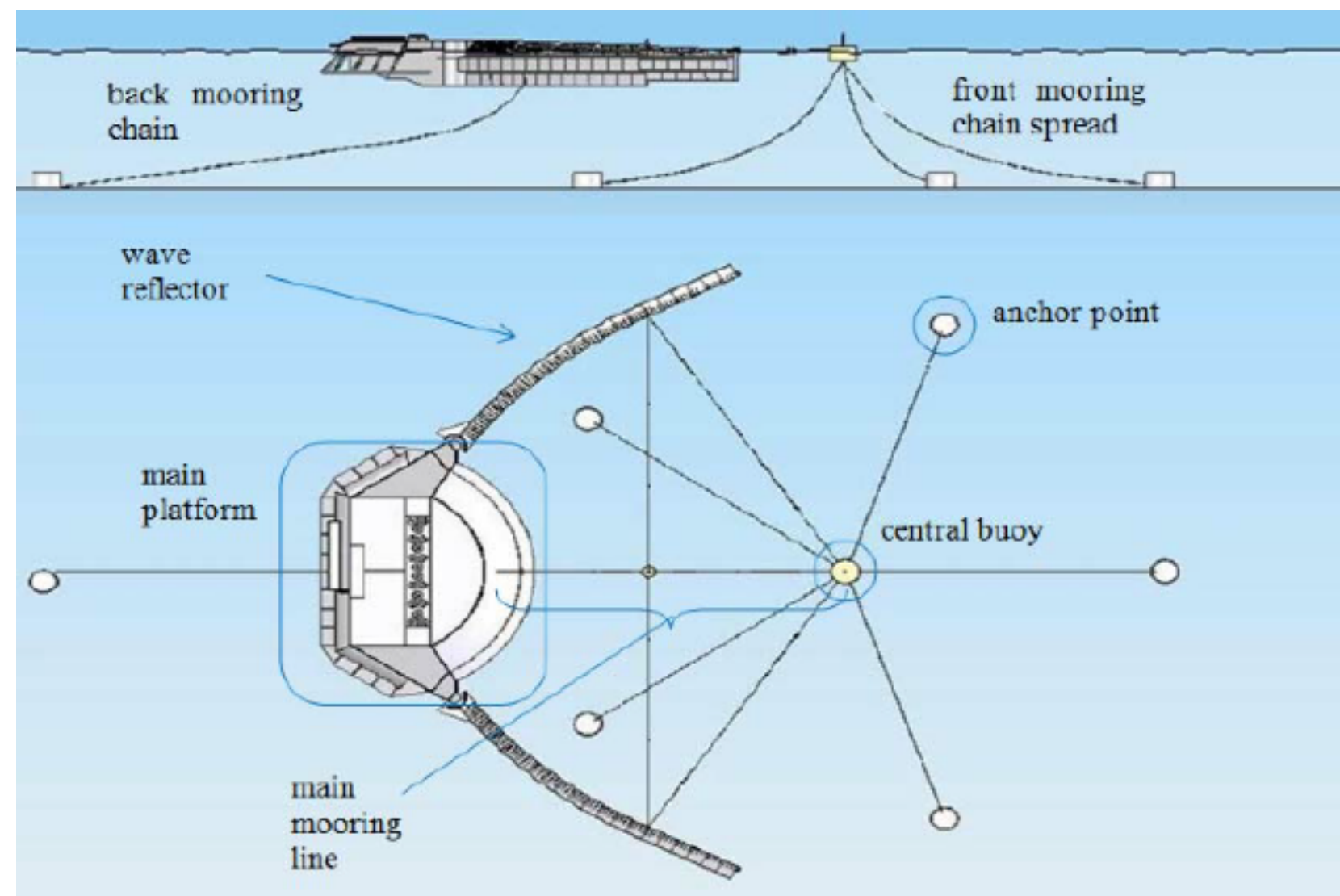
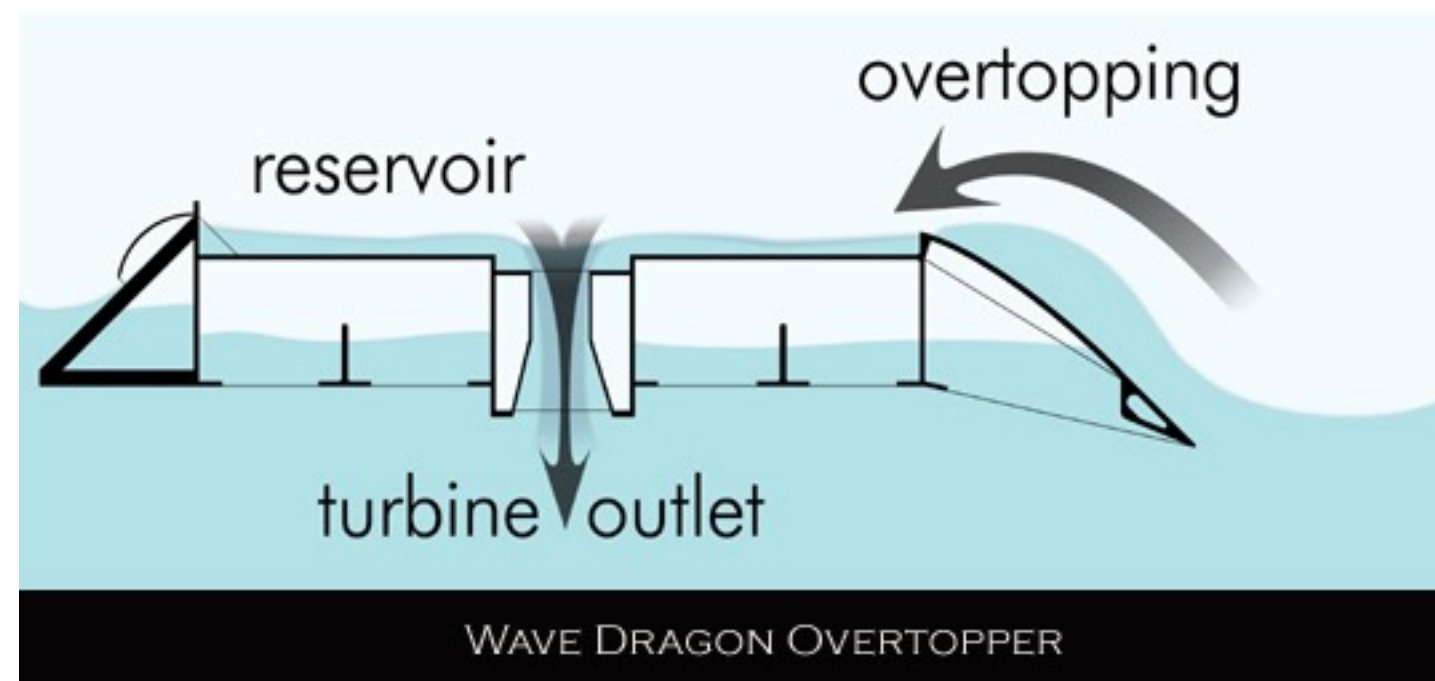
Pelamis wave energy converter



# Experimental design: similarity

## Kinematic similarity: similarity of velocities

*The flow and model(s) will have geometrically similar motions in model and full scale*



Experimental setup of the 1:50 scale model tests of the North Sea Wave Dragon

