Initialize the vehicle far away from the seafloor. An example position could be

[10.5 35.5 -36 0 0 pi/2] (x,y,z,roll,pitch,yaw)

Give a target position that is also sufficiently away from the seafloor, e.g.,

[10.5 37.5 -38 0 0 0]

Goal: Implement a vehicle position control task, and test that the vehicle reaches the required position and orientation. Add the proper Jacobian variable, its activation function, and the desired reference rate.