

## 04\_Dambreak • 3-D dam break experiment that includes moving boundaries proposed as SPHERIC Benchmark Test Case #2. Video Time: 0.70 s 05\_FLOWCYLINDER Time: 3.00 s Time: 4.00 s Time: 5.00 s • 2-D flow passing a cylinder of diameter D=0.2m, which is surrounded by a viscous fluid. Dimensions of the fluid domain are chosen to minimise boundary effects. The fluid is initialized with a constant velocity of U=1m/s and with Re=200. • The circle is created using the Free Draw Mode instead of the Cartesian grid. Video 06\_WAVETANK Time: 10.00 s 2-D regular waves are generated and propagated in a numerical wave flume using DBC and the new mDBC. The beach is created using the Free Draw Mode instead of the Cartesian grid. DBC dp = 0.03mVideo mDBC dp=0.03m07\_WAVESCYLINDER Time: 6.00 s • 3-D regular waves (H=0.1m, T=1.2s, d=0.5m) passing a cylinder of diameter D=0.2m and 0.7m high located in the middle of a wave flume. • The cylinder is created using the Free Draw Mode instead of the Cartesian grid <u>Video</u>