

Supplementary material:

1. Movie of velocity and vorticity of flow field around pulsing coral at $Re = 0.5$

Link: <https://www.youtube.com/watch?v=LVifAqRPHfc&feature=youtu.be>

2. Movie of velocity and vorticity of flow field around pulsing coral at $Re = 10$

Link: <https://www.youtube.com/watch?v=hSQCeyjuLqY&feature=youtu.be>

3. Movie of velocity and vorticity of flow field around pulsing coral at $Re = 80$

Link: <https://www.youtube.com/watch?v=HFKxnwl9EiE&feature=youtu.be>