Movie 1. Sunfish with no anal/dorsal fins. The 3D wake structure visualized using iso-surfaces of q-criteria for the sunfish with no anal/dorsal fins (*Re*=4000 simulation).

Movie 2. Sunfish with erected anal/dorsal fins. The 3D wake structure visualized using iso-surfaces of q-criteria for the sunfish with erected anal/dorsal fins (*Re*=4000 simulation).

Movie 3. Sunfish with no tail. The 3D wake structure visualized using iso-surfaces of q-criteria for the sunfish with no tail (*Re*=4000 simulation).