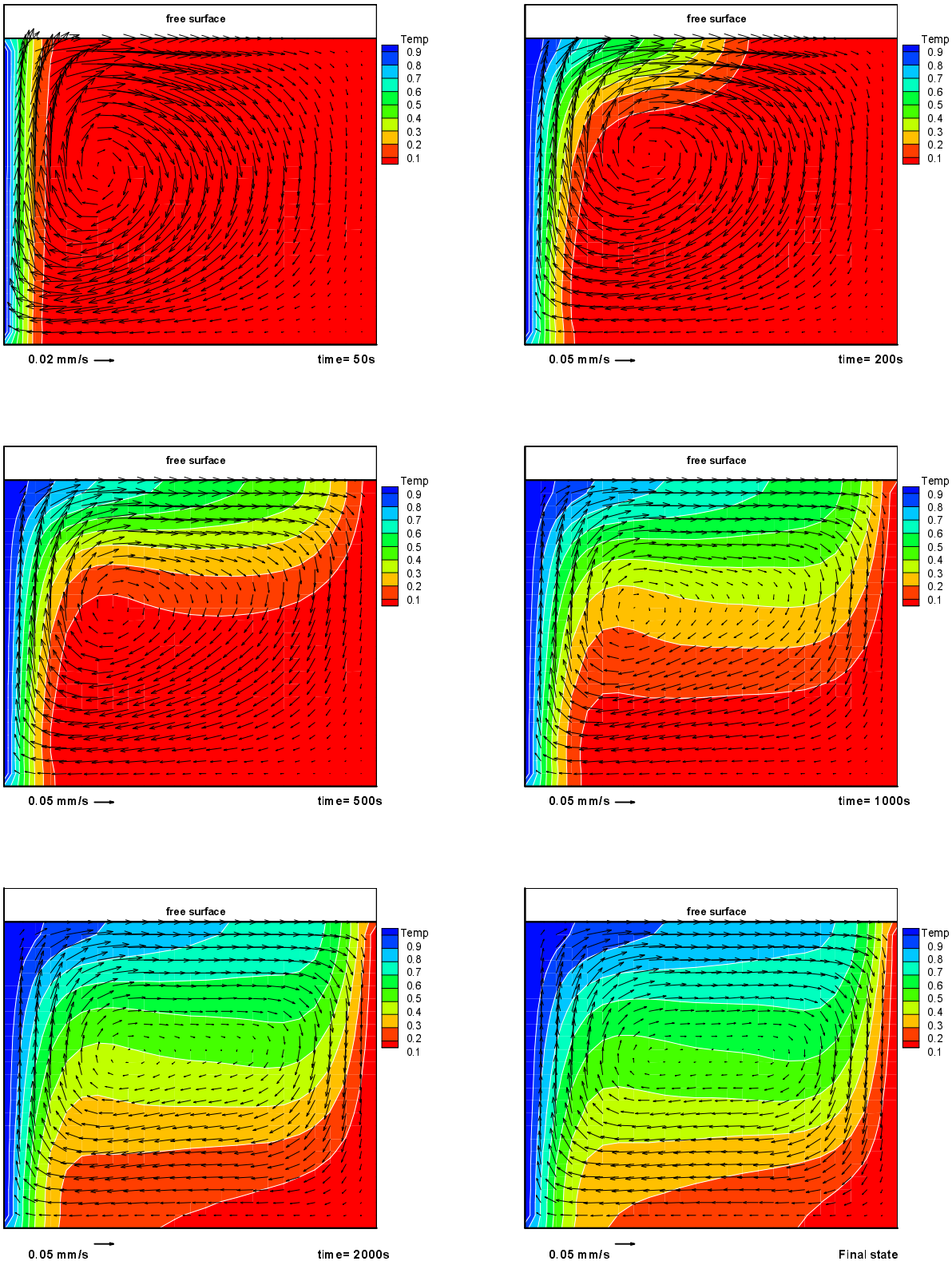differentially heated cavity. Numerical computations for the free surface, centre symmetry plane z=0.5.