

Movie Captions

- Movie 1 Xu et al. supplementary movie 1 Movie shows the reversal of the large-scale circulation in the 2D circular cell. Temperature field (contour) of the flow at $Ra = 1 \times 10^7, Pr = 4.3$, and at $Ra = 3 \times 10^7, Pr = 8$ are shown.
- Movie 2 Xu et al. supplementary movie 2 Movie shows the the onset of the LSC in the 2D circular cell with different initial conditions. Temperature field (contour) of the flow at $Ra = 1 \times 10^7, Pr = 4.3$.
- Movie 3 Xu et al. supplementary movie 3 Movie shows the the onset of the LSC in the 2D square cell with different initial conditions. Temperature field (contour) of the flow at $Ra = 1 \times 10^7, Pr = 4.3$.