

Figure 7.1: Instantaneous turbulence intensities for wave/current flow; case W2, $t/T = 13.4$

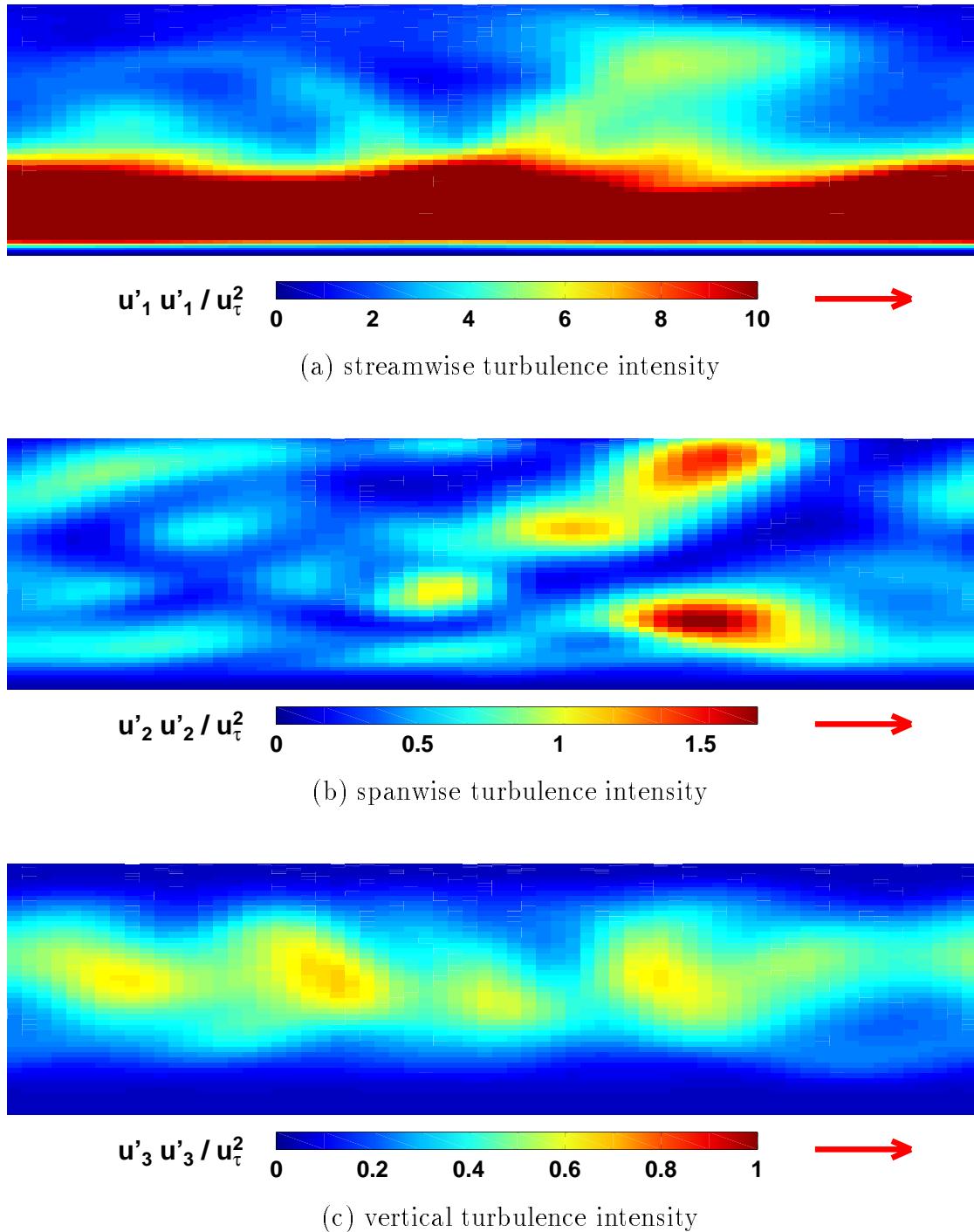
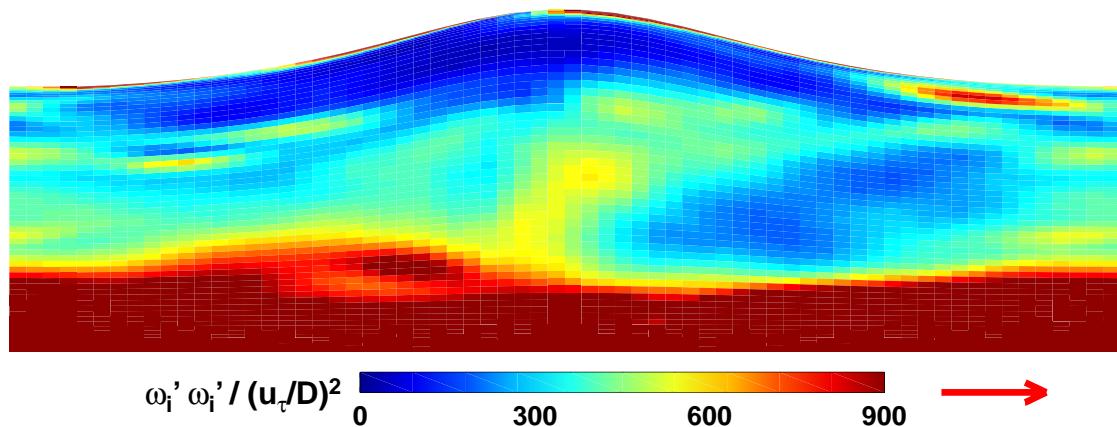
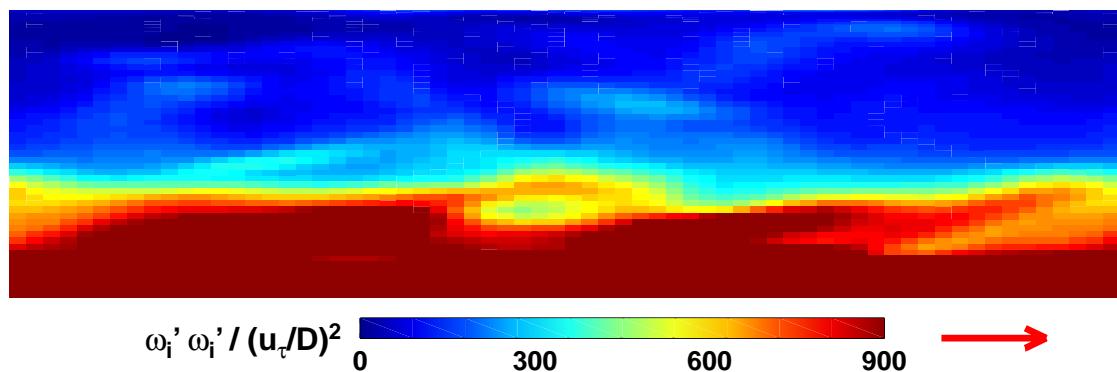


Figure 7.2: Instantaneous turbulence intensity for current-only flow; case C, $t/T = 13.4$



(a) wave/current flow, case W2



(b) current-only flow, case C

Figure 7.3: Instantaneous enstrophy, $t/T = 13.4$

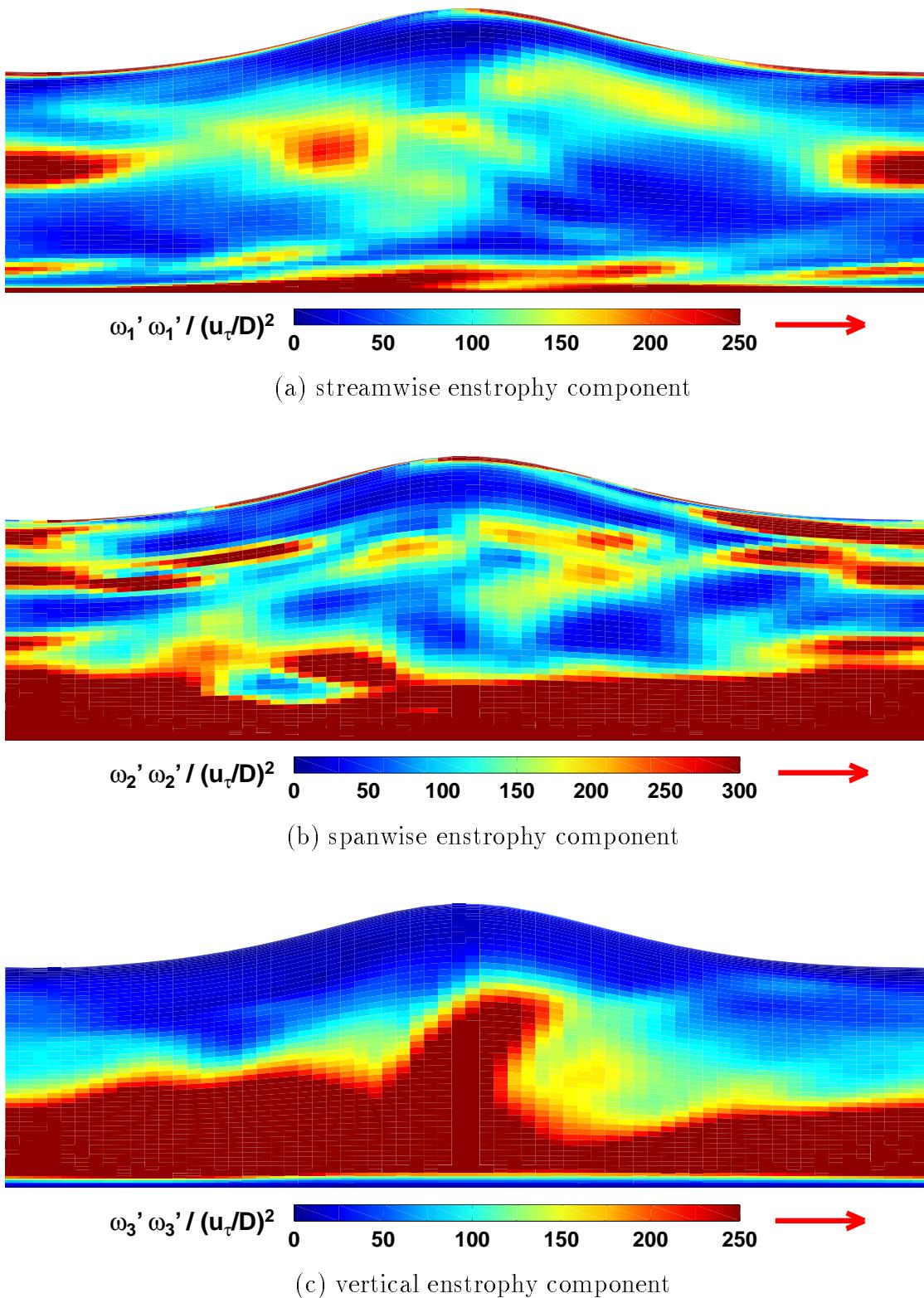


Figure 7.4: Instantaneous enstrophy components for wave/current flow; case W2, $t/T = 13.4$

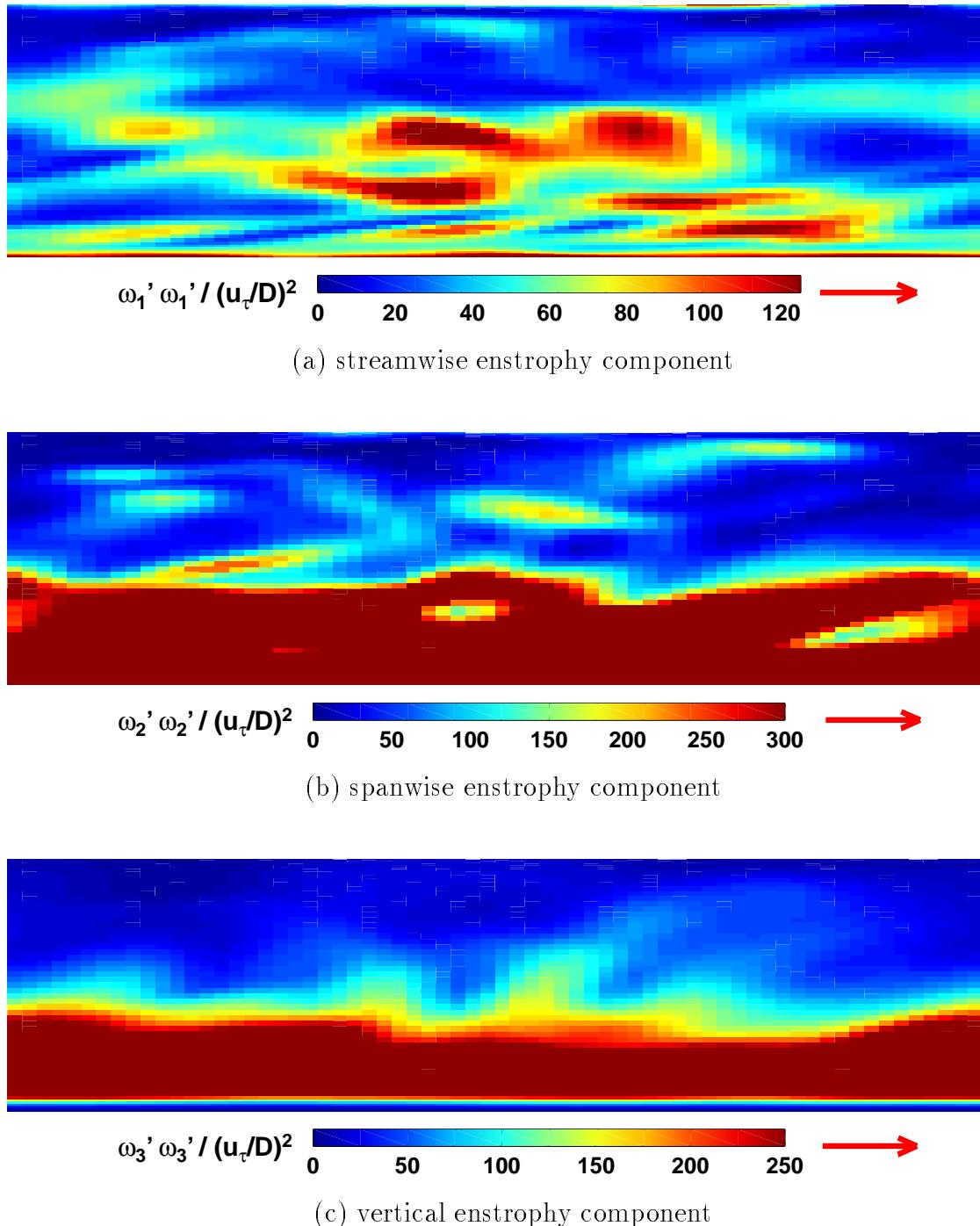


Figure 7.5: Instantaneous enstrophy components for current-only flow; case C, $t/T = 13.4$

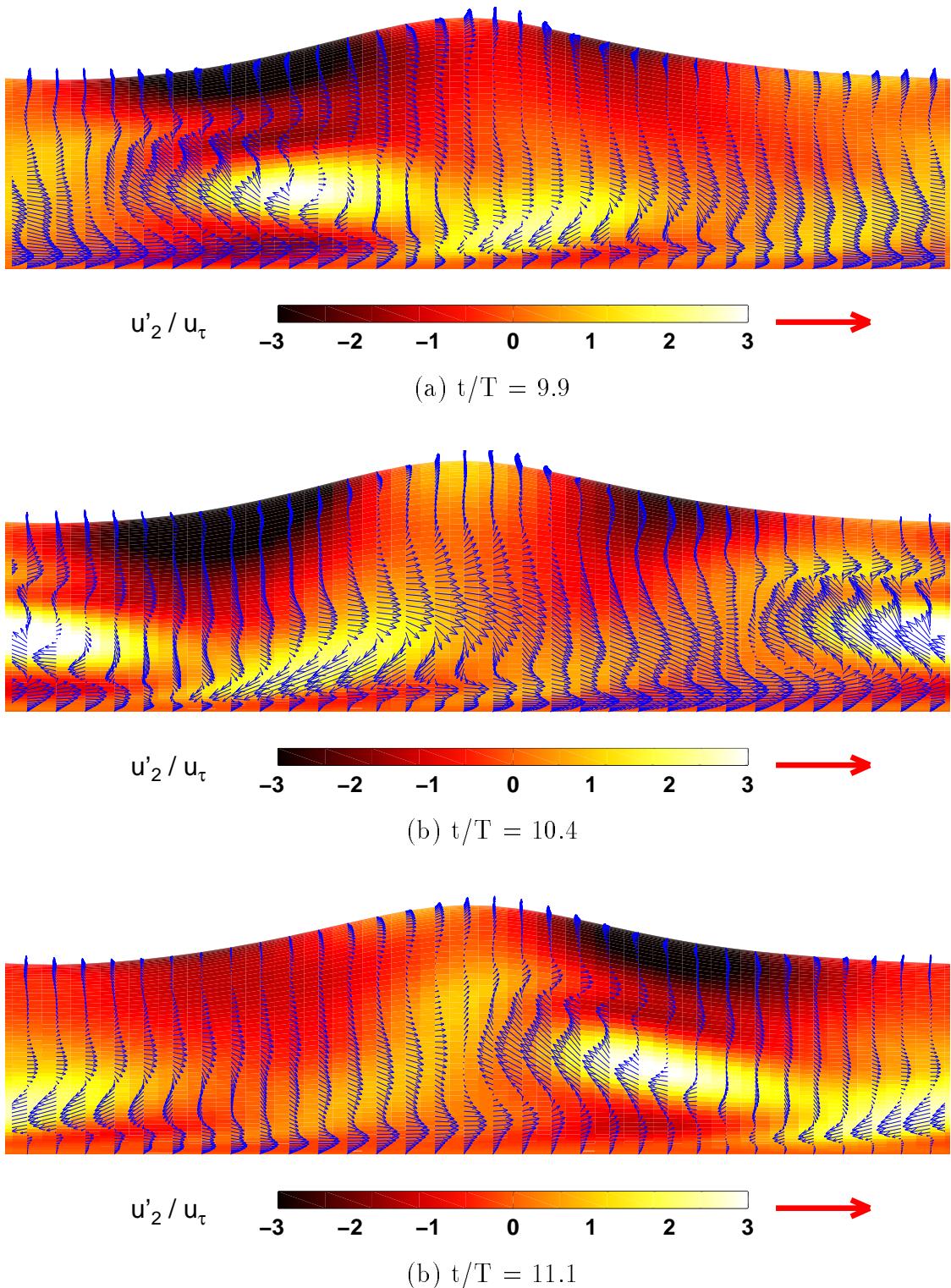


Figure 7.6: Instantaneous plots of velocity variation in vertical plane (with color scale showing spanwise velocity component variation); $x : z$ streamwise mid-plane for wave/current, case W2.

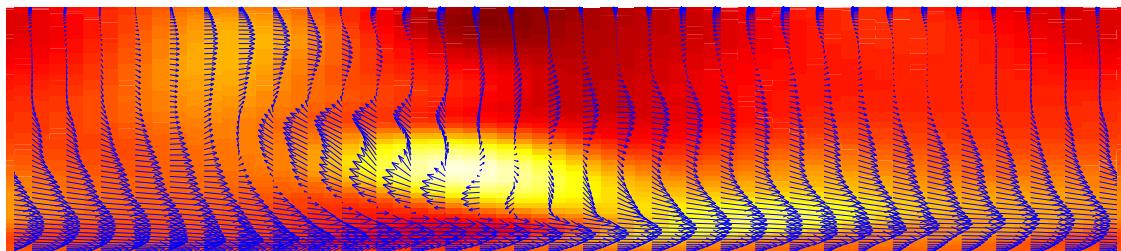
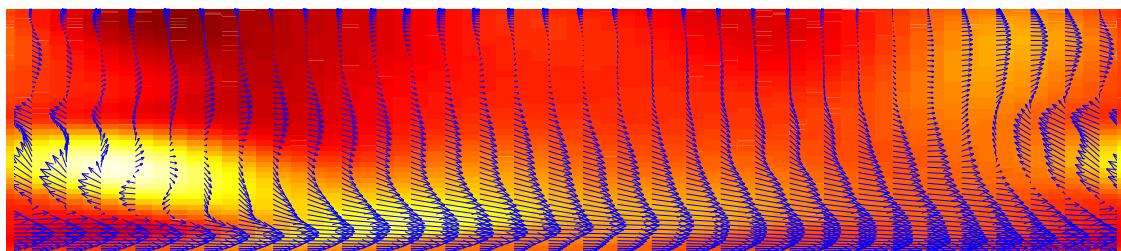
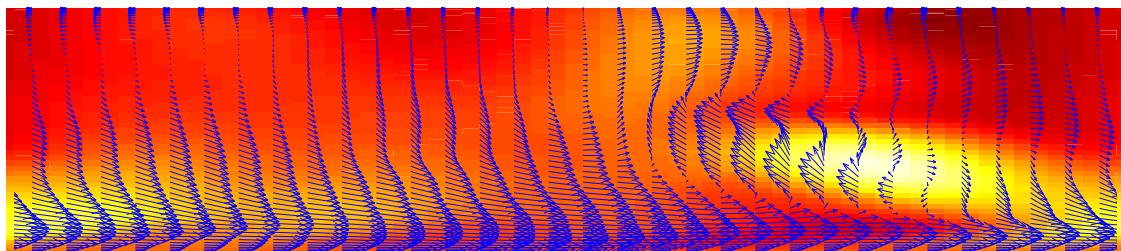
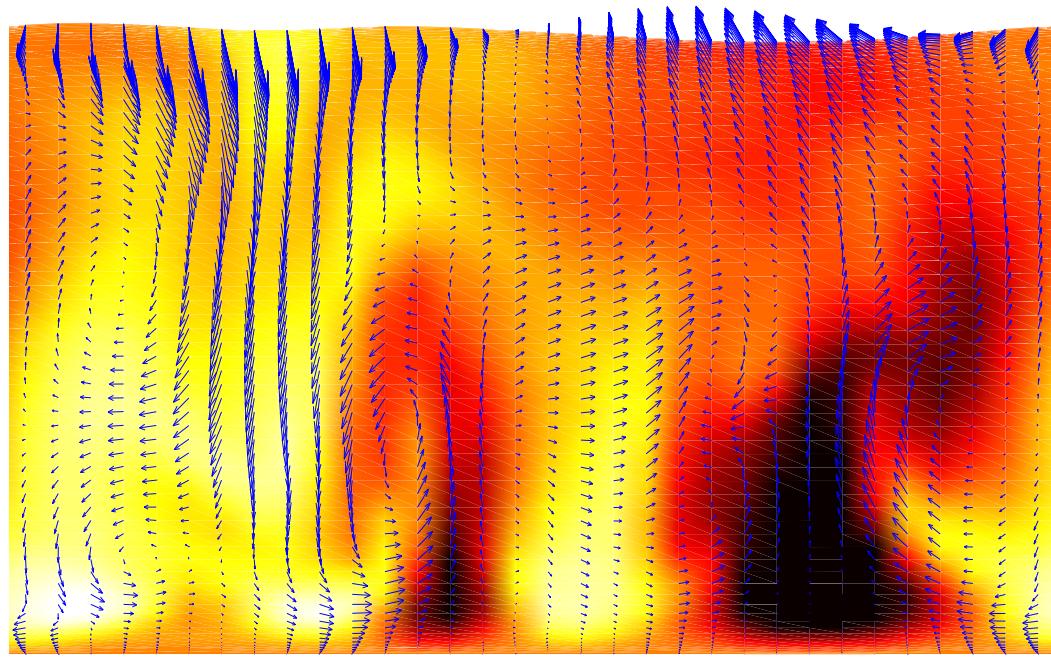
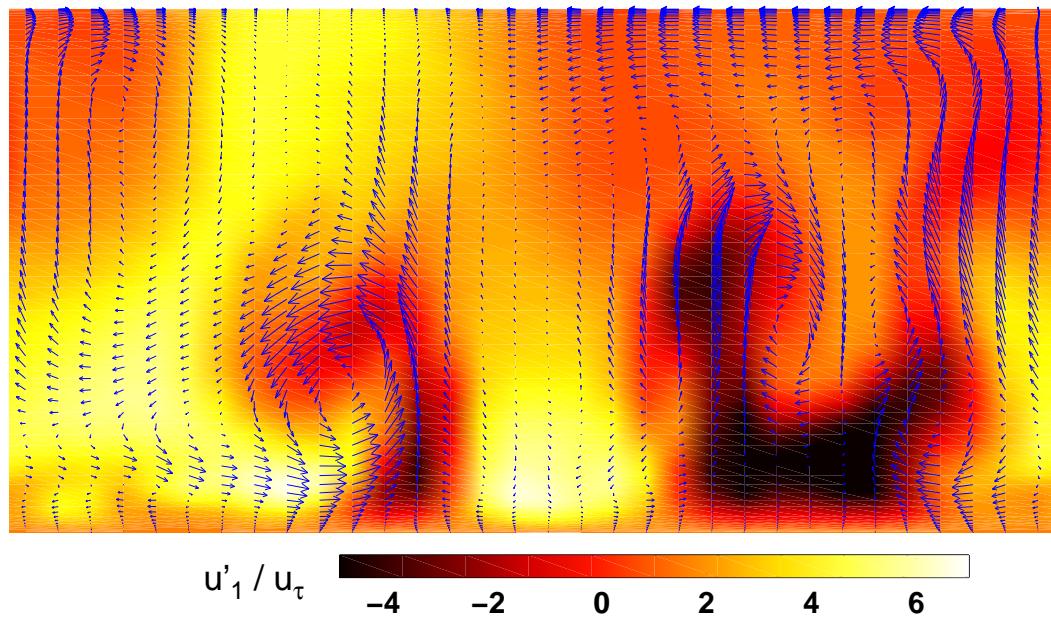
(a) $t/T = 9.9$ (b) $t/T = 10.4$ (b) $t/T = 11.1$

Figure 7.7: Instantaneous plots of velocity variation in vertical plane (with color scale showing spanwise velocity component variation); $x : z$ streamwise mid-plane for current-only, case C.

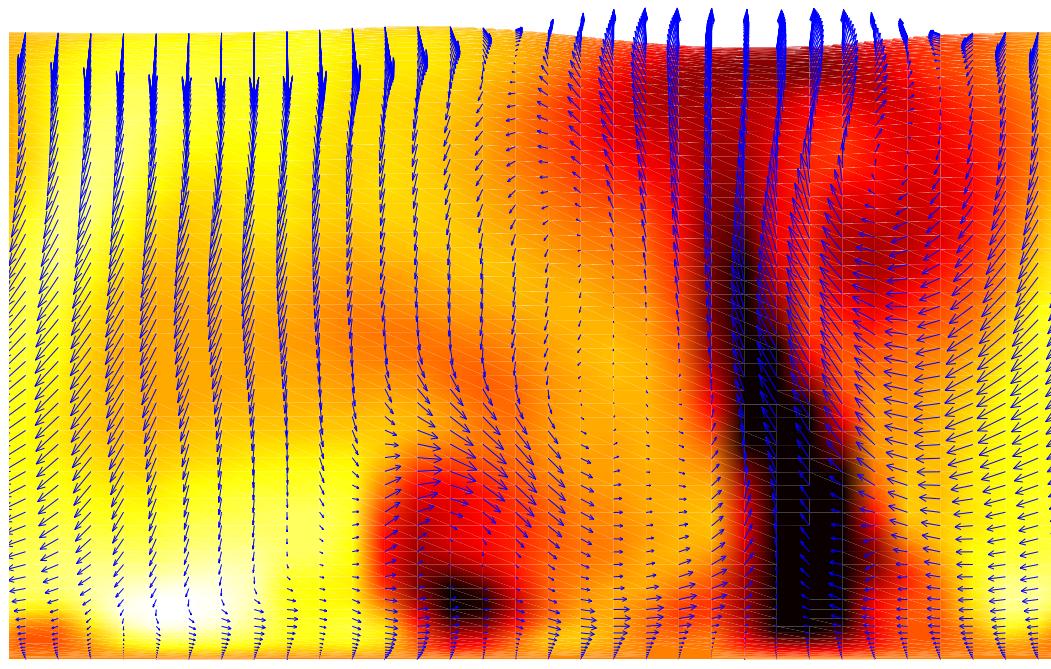


(a) wave/current flow, case W2

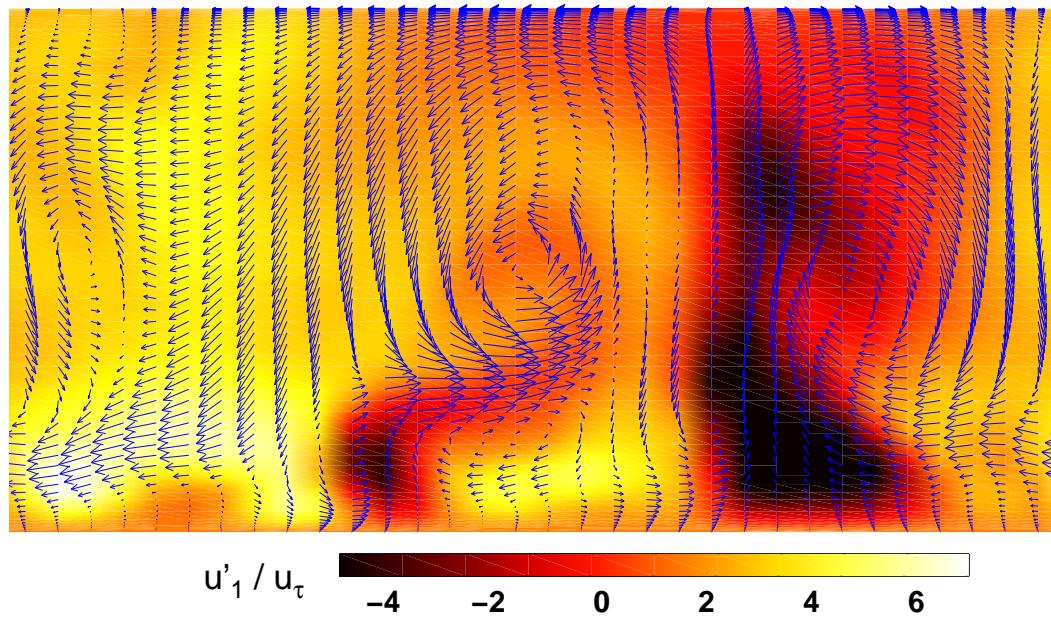


(b) current-only flow, case C

Figure 7.8: Instantaneous plots of velocity variation in vertical plane (with color scale showing streamwise velocity component variation); $y:z$ cross-plane, $t/T = 11.1$



(a) wave/current flow, case W2



(b) current-only flow, case C

Figure 7.9: Instantaneous plots of velocity variation in vertical plane (with color scale showing streamwise velocity component variation); $y:z$ cross-plane, $t/T = 11.6$