Gray-Scott Model graphs

Scientific Compupting Assignment 2

Kaixin Hu

April 2016

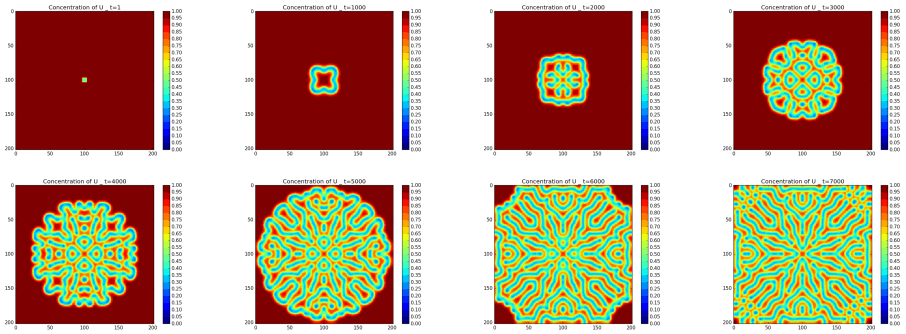

Figure 1: f=0.035,k=0.06. Pattern formation(U concentration) with no noise in the initial conditions at t=1, 1000, 2000, 3000, 4000, 5000, 6000, 7000, respectively.

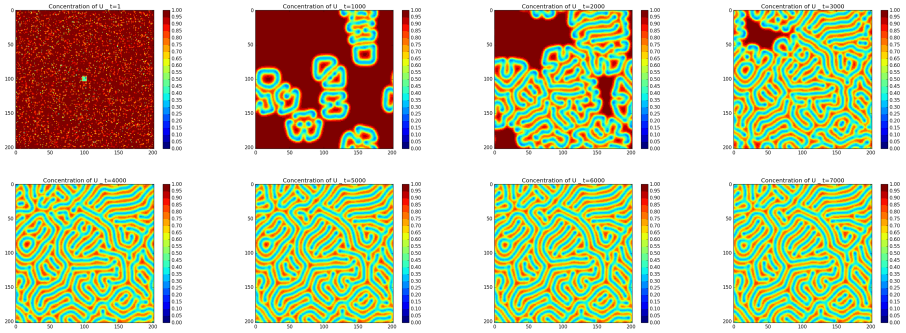

Figure 2: f=0.035,k=0.06. Pattern formation(U concentration) with noise in the initial conditions at t=1, 1000, 2000, 3000, 4000, 5000, 6000, 7000, respectively.

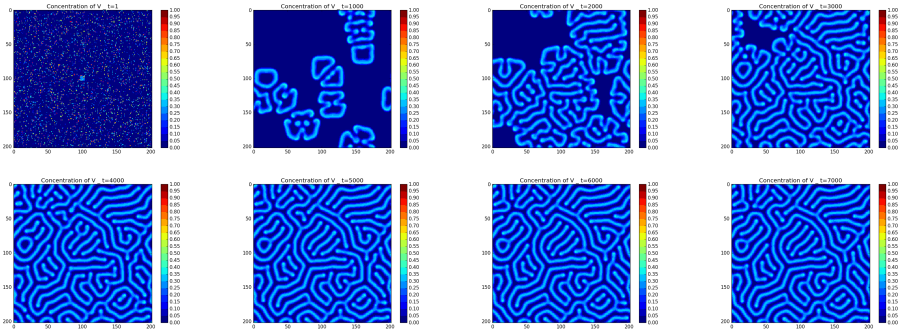

Figure 3: f=0.035,k=0.06. Pattern formation(v concentration) with noise in the initial conditions at t=1, 1000, 2000, 3000, 4000, 5000, 6000, 7000, respectively.

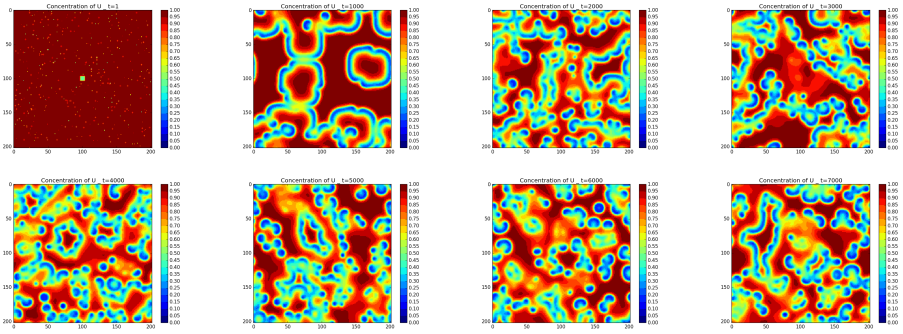

Figure 4: f=0.015,k=0.016. Pattern formation(U concentration) at t=1, 1000, 2000, 3000, 4000, 5000, 6000, 7000, respectively.

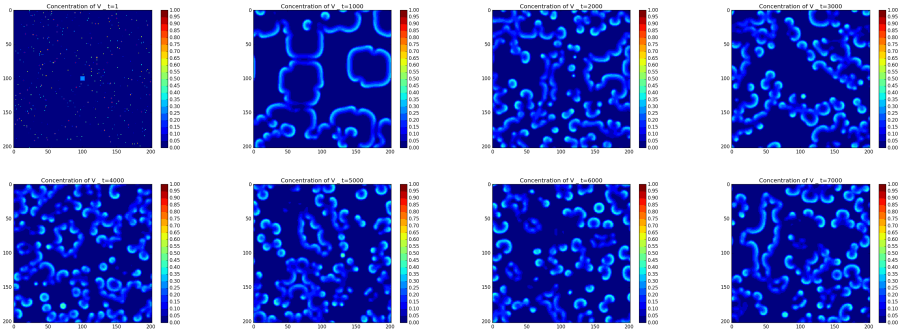

Figure 5: f=0.016,k=0.05. Pattern formation(V concentration) at t=1, 1000, 2000, 3000, 4000, 5000, 6000, 7000, respectively.

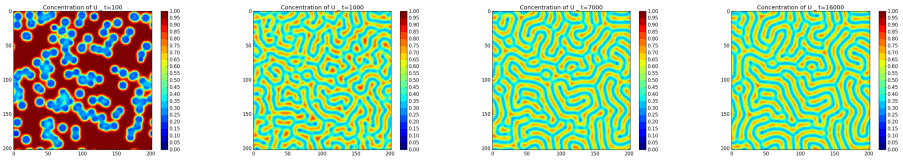

Figure 6: f=0.03,k=0.057. Pattern formation(U concentration) at t=100, 1000, 7000, 16000, respectively.

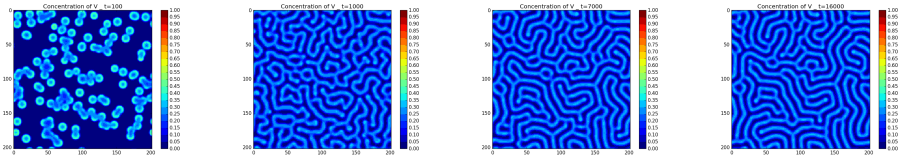

Figure 7: f=0.03,k=0.057. Pattern formation(V concentration) at t=100, 1000, 7000, 16000, respectively.

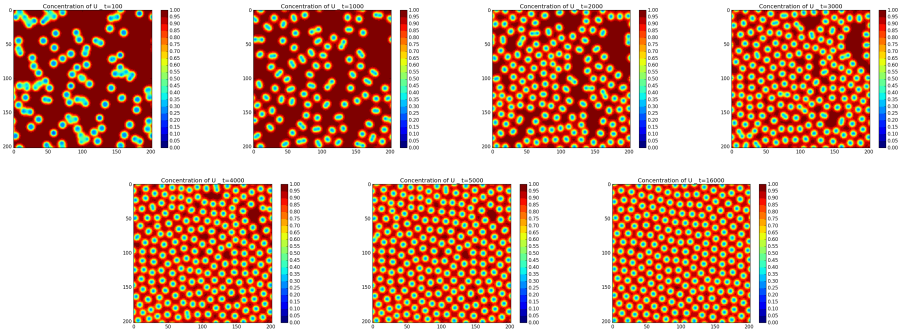

Figure 8: f=0.034,k=0.065. Pattern formation(U concentration) at t=100, 1000, 2000, 3000, 4000, 5000, 16000, respectively.

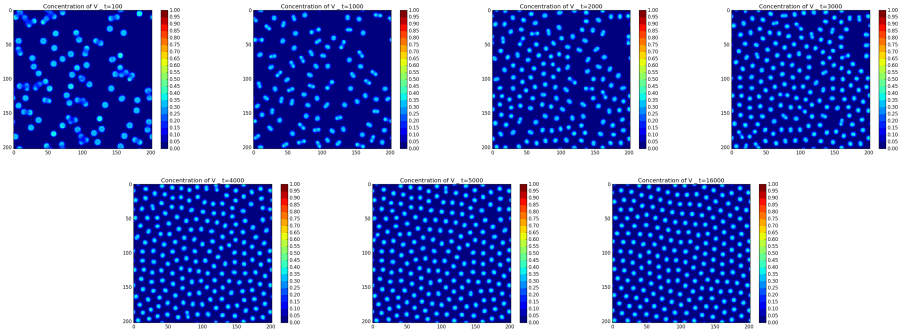

Figure 9: f=0.034,k=0.065. Pattern formation(V concentration) at t=100, 1000, 2000, 3000, 4000, 5000, 16000, respectively.

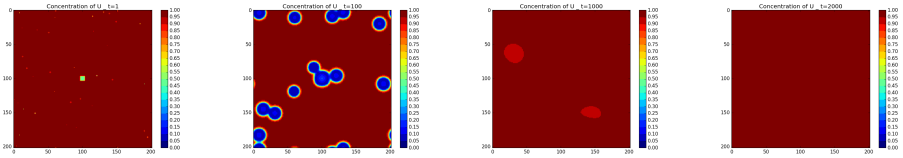

Figure 10: f=0.034,k=0.065. Pattern formation(U concentration) at t=1, 100, 1000, 2000, respectively.

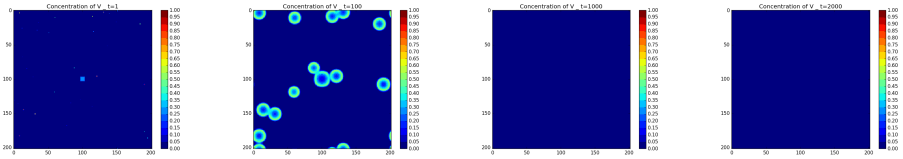

Figure 11: f=0.034,k=0.065. Pattern formation(V concentration) at t=1, 100, 1000, 2000, respectively.