

Ecological Dynamics

ENVR 5130 (Spring 2015)

Natural world

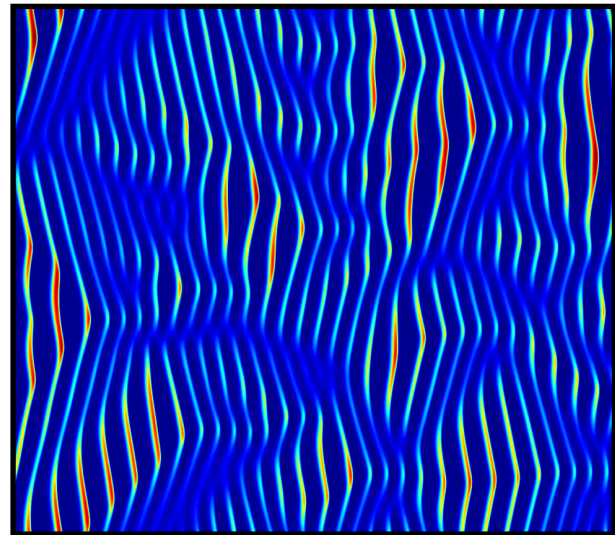
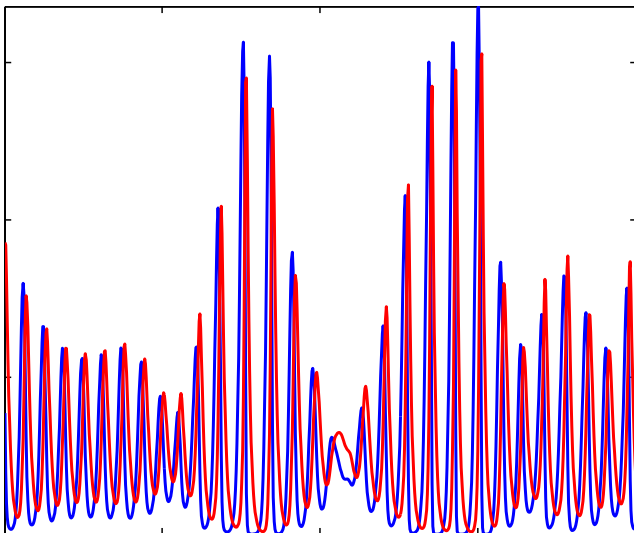


Model

$$\frac{dN}{dt} = rN \left(1 - \frac{N}{K} \right) - \frac{aNP}{1 + avN}$$

$$\frac{dP}{dt} = \frac{aNP}{1 + avN} - mP$$

Prediction



A new course for undergraduate and graduate students that will provide a thorough description of the mathematical techniques used to model biological systems

- Topics:
- Competition theory
 - Food web networks
 - Spatial ecology
 - Disease outbreaks
 - Environmental change
 - Nonlinear dynamics

For more information, contact Dr. Tarik C. Gouhier (t.gouhier@neu.edu)