

Invasion Ecology: week 1

Week 1: Homework

Due: Sunday 11:59pm, week 1

Please read the following article and answer the following questions:

Ghelardini, L., Luchi, N., Pecori, F., Pepori, A. L., Danti, R., Della Rocca, G., ... & Santini, A. (2017). Ecology of invasive forest pathogens. *Biological invasions*, 19(11), 3183-3200.

1. What forest pathogens can be called invasive? Please list the main characteristics of an invasive pathogen.

2. Please name at least one mode of introductions of forest pathogens into native ecosystems.

3. What stage(s) of forest pathogen invasion have been mentioned in the paper?

4. Please study Fig.1. What additional indirect information does it carry? Please share your thoughts (2-3 sentences).

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Fig. 1 Temporal changes in the origin of forest pathogens established in Europe (updated from Santini et al. 2013)

