Notes on Papers for False Spring

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August 22, 2016

Drivers of leaf-out phenology and their implications for species invasions: insights from Thoreau's Concord

Polgar et al. 2014

Abstract Notes

Investigate the differences in functional traits, invasive versus native, shrubs versus trees. This study looks into the rate of change by days per degree Celcius change, making it a suitable and viable source.

Introduction Notes

- Species around the world are beginning leaf-out around 4.6 days earlier per degree Celcius (Wolkovich et al., 2012)
- Communities dominated by native species tend to exhibit a weaker repsonse to temperature, whereas non-native dominated communities respond strongly to changes in temperature (Willis et al., 2008; Hulme, 2011).
- Leaf-out may be delayed, however, as winter seasons begin to warm and chilling requirements are not met, thus resulting in more warming to occur for bud burst to begin (McCreary et al., 1990; Morin et al., 2009; Fu et al., 2012).