JONATHAN THOMPSON
HARVARD FOREST

LTER SCIENCE COUNCIL
MEETING 2018
MADISON, WI

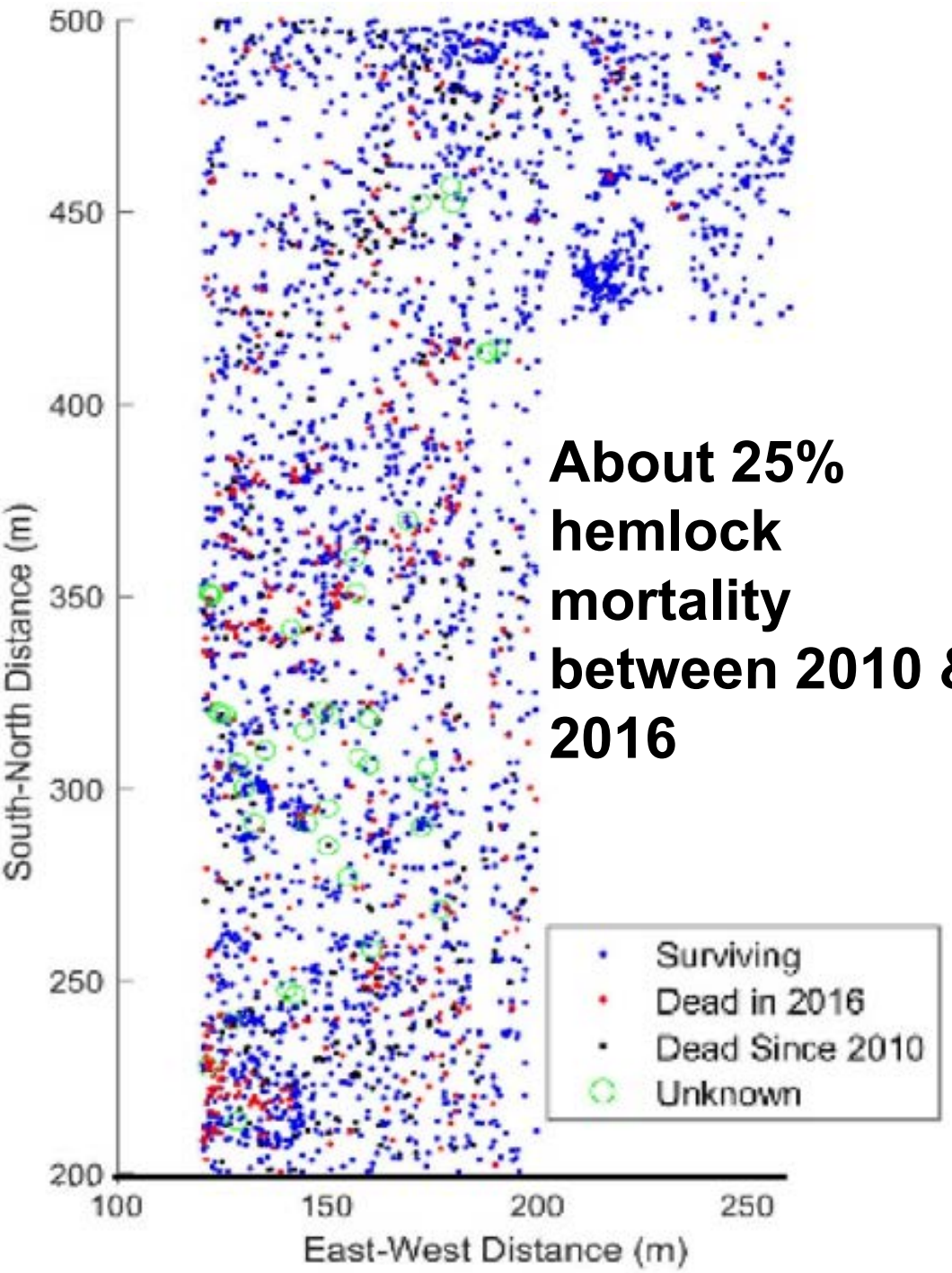
NATIONAL SCIENCE FOUNDATION
LTER NETWORK
LONG TERM ECOLOGICAL RESEARCH

Site News

- Submitted Renewal Proposal HFR LTER-VI
- Starting search for new senior scientist
- NSF AISL Grant: Public Engagement with Science at LTER Sites (PES@LTER with HBR)
- Re-censusing 35ha stem-mapped ForestGEO plot
- Hemlock Hospice

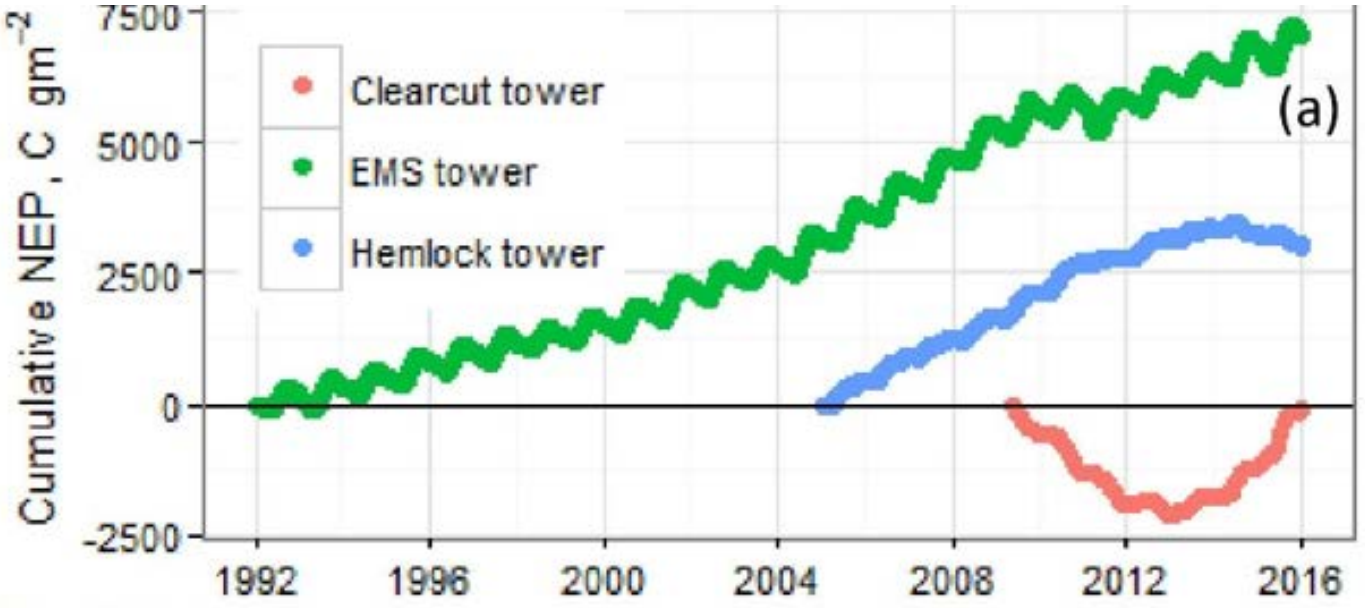
Loss of hemlock due to hemlock woolly adelgid will cause a massive change in soil organic matter across the region

- Two to ten times greater organic horizon carbon than in hardwood stands
- Cool, dark, & moist micro-environment + acidic and recalcitrant litter slows decomposition to century-time scales
- New soil microbial communities & faster rates of N & C cycling
- Belowground & aquatic dynamics are featured in HFR-LTER-VI Proposal



About 25% hemlock mortality between 2010 & 2016

Total Ecosystem Production is Declining



OM in Hemlock v Hardwood