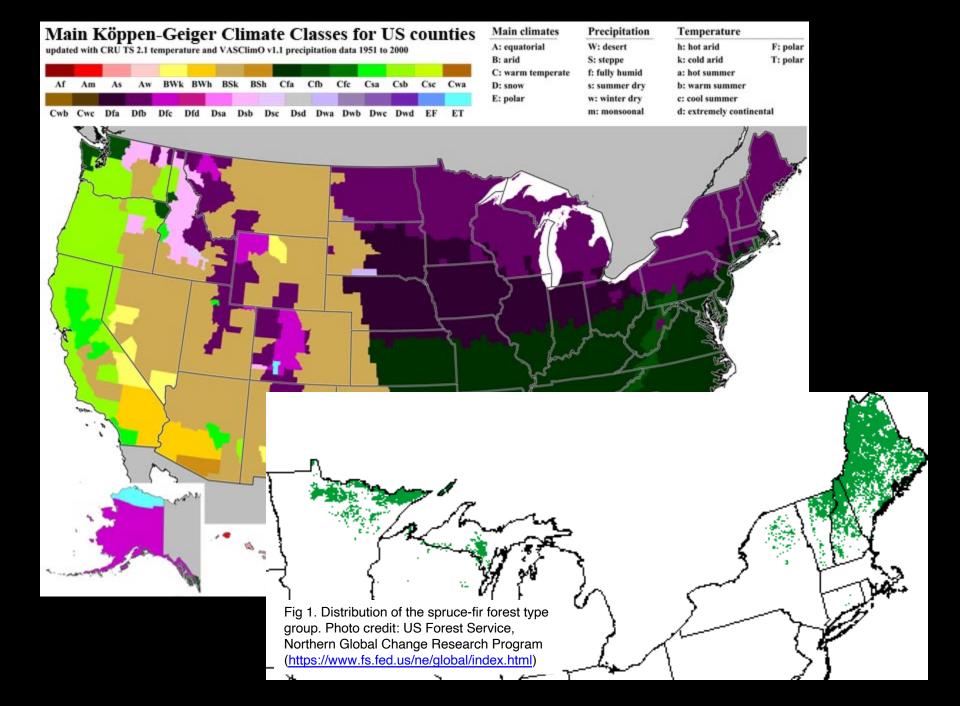
Erin Simons-Legaard erin.simons@maine.edu

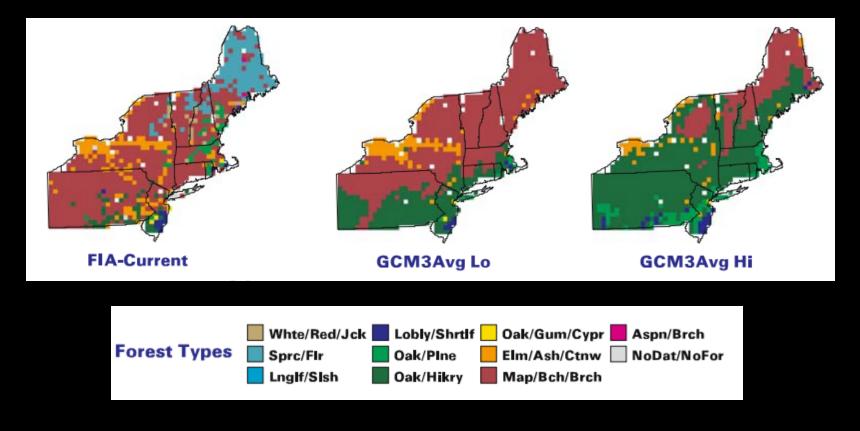






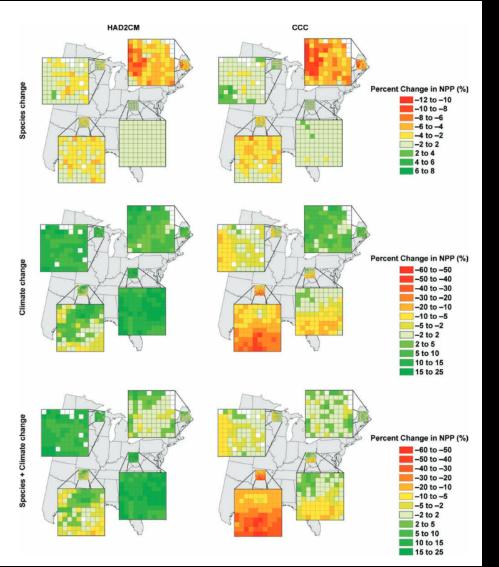
Modeling potential climate change impacts on the trees of the northeastern United States

Louis Iverson · Anantha Prasad · Stephen Matthews



Effects of Climate Change and Shifts in Forest Composition on Forest Net Primary Production

Jyh-Min Chiang^{1*}, Louts R. Iverson², Anantha Prasad[†] and Kim J. Brown¹



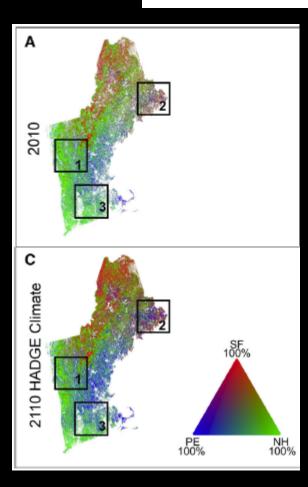
-12 to -2% from species change

2 to 25% from climate change

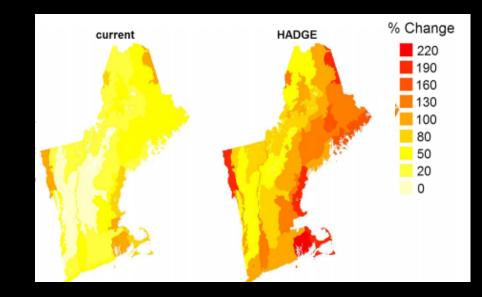
Net -5% to 5% NPP change

Recovery dynamics and climate change effects to future New England forests

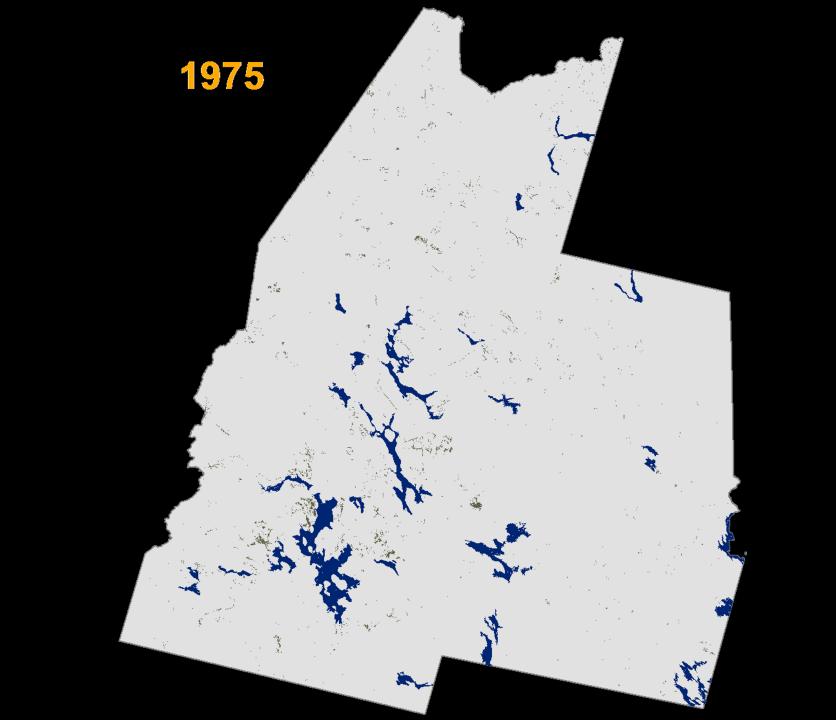
Matthew J. Duveneck · Jonathan R. Thompson · Eric J. Gustafson · Yu Liang · Arjan M. G. de Bruijn

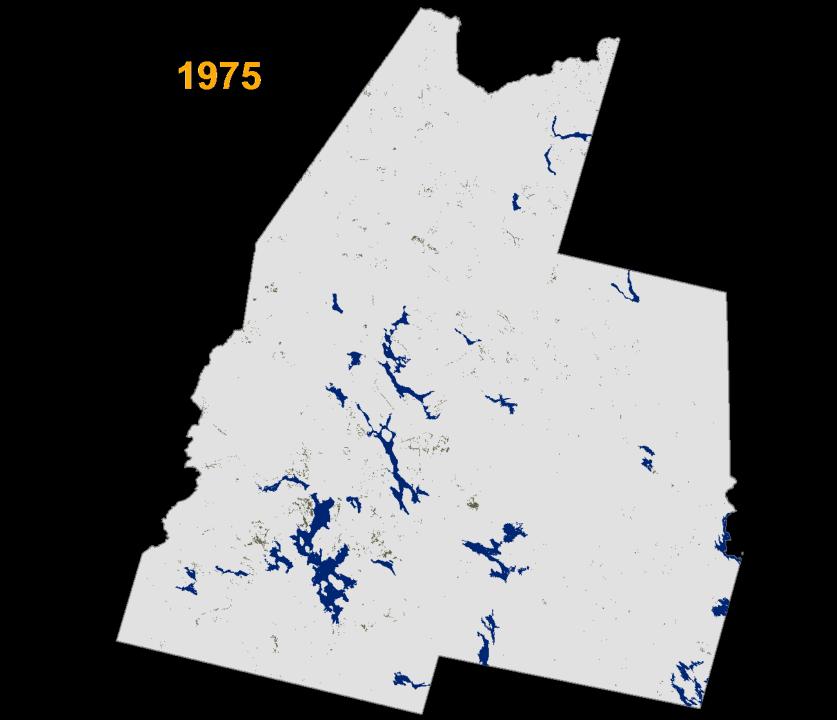


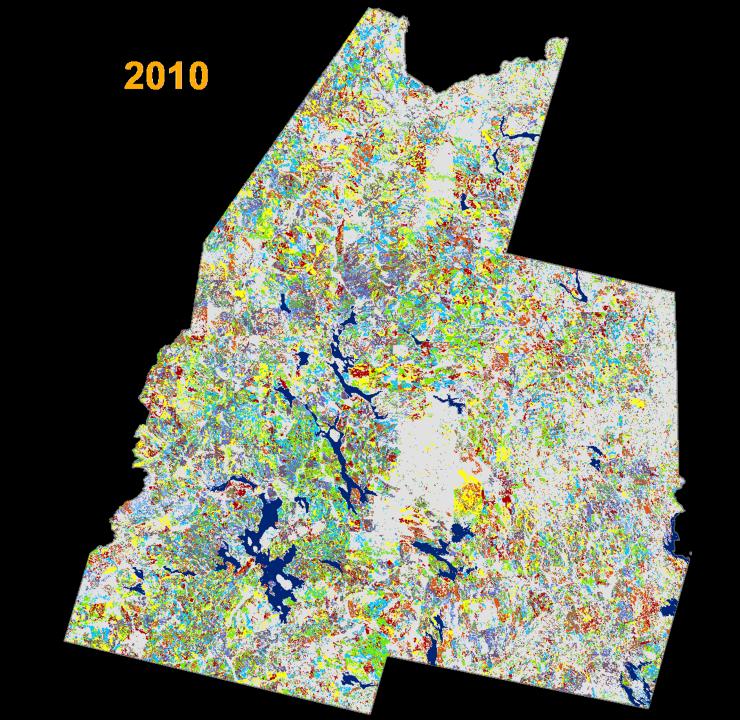
Spatial dominance of forest types largely unchanged



Increased AGB (Total and most species, including spruce-fir)



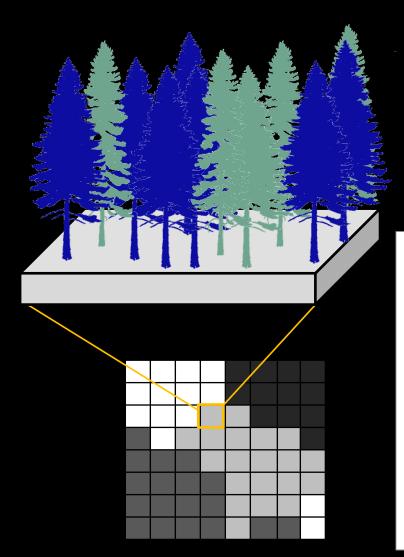




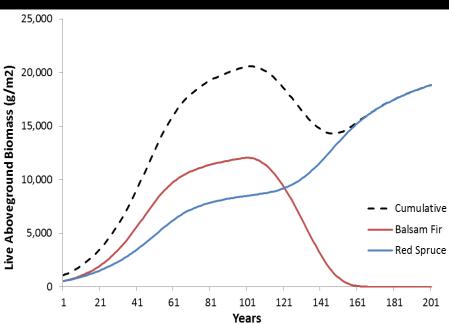




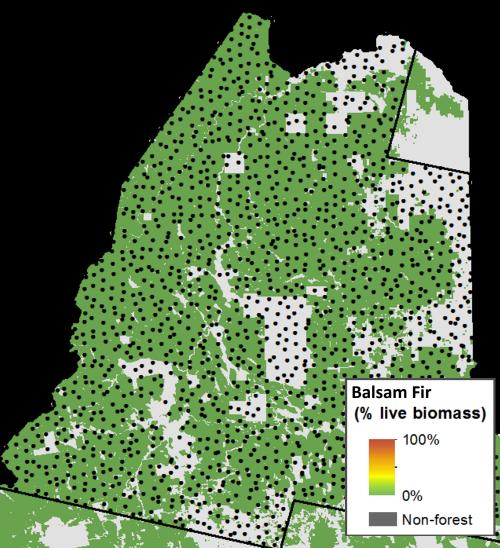




Red spruce, 100 years Balsam Fir, 90 years

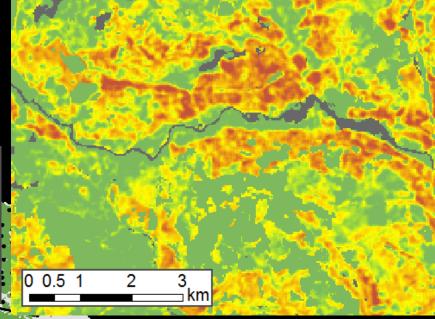


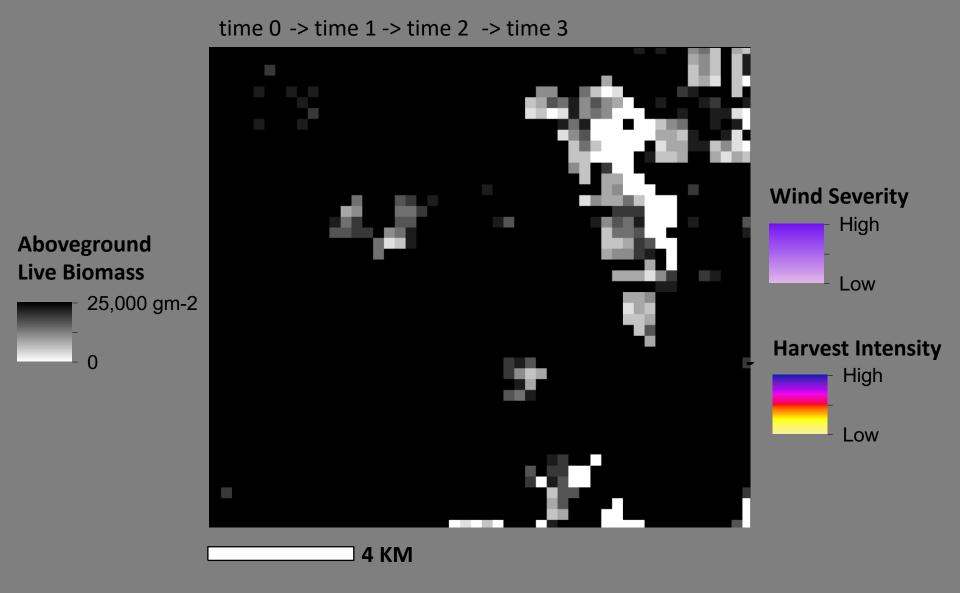
Public FIA plot locations shown. True plot coordinates provided through a collaborative agreement with the USFS Northern Research Station FIA Program.

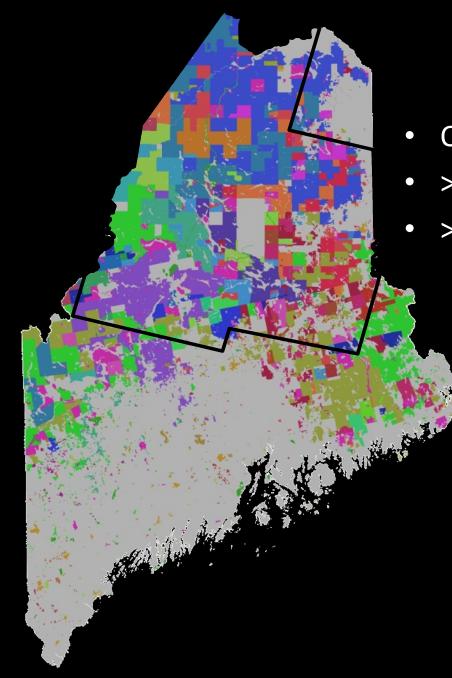


Species abundance (% biomass):

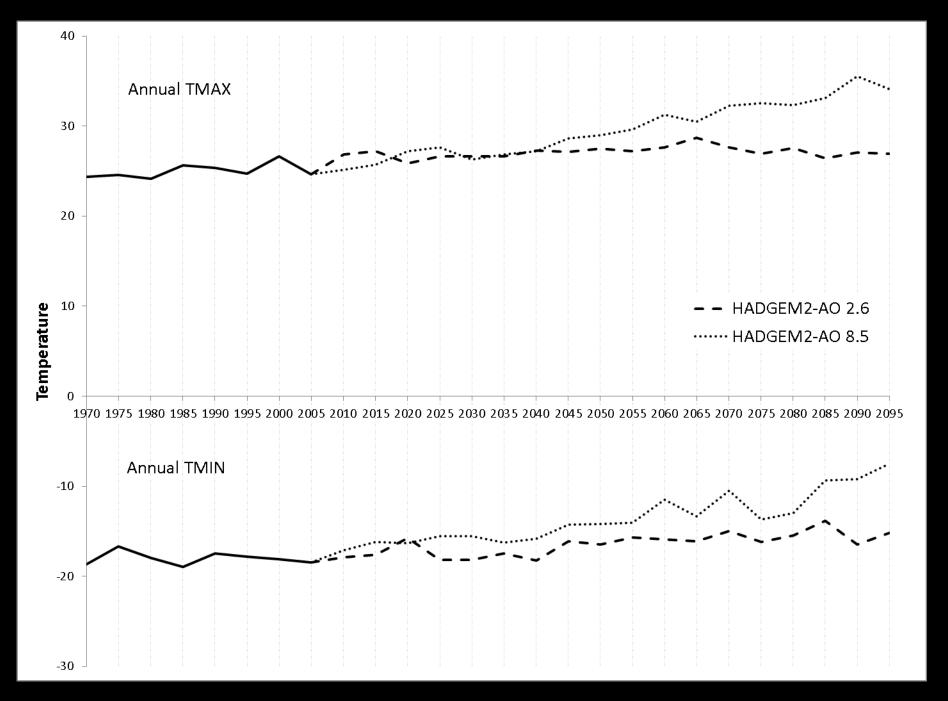
- Balsam fir
- Red, white, black spruce
- E. White pine
- N. White cedar
- Sugar and Red maple
- E. Hemlock
- American beech
- Yellow birch
- Paper birch
- Ash *sp.*

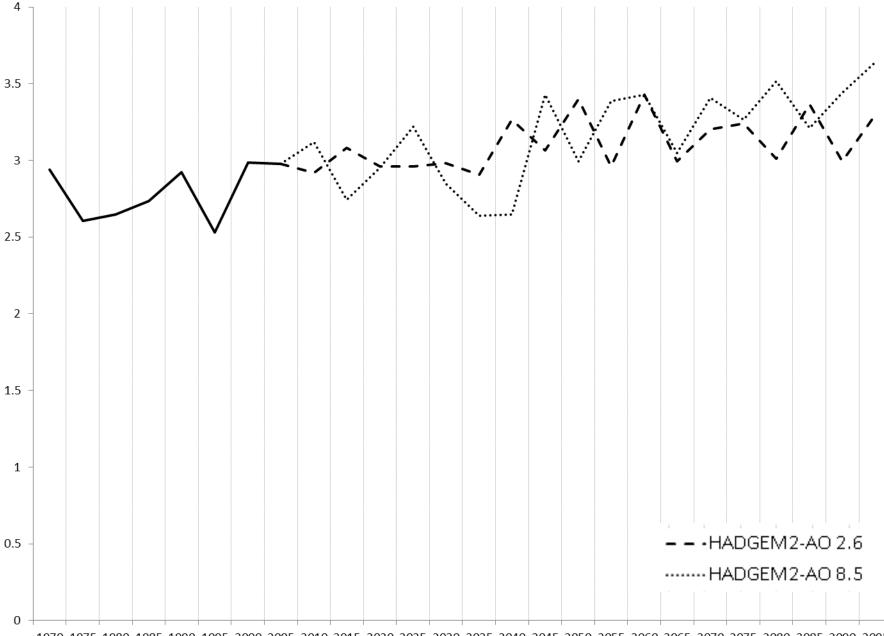




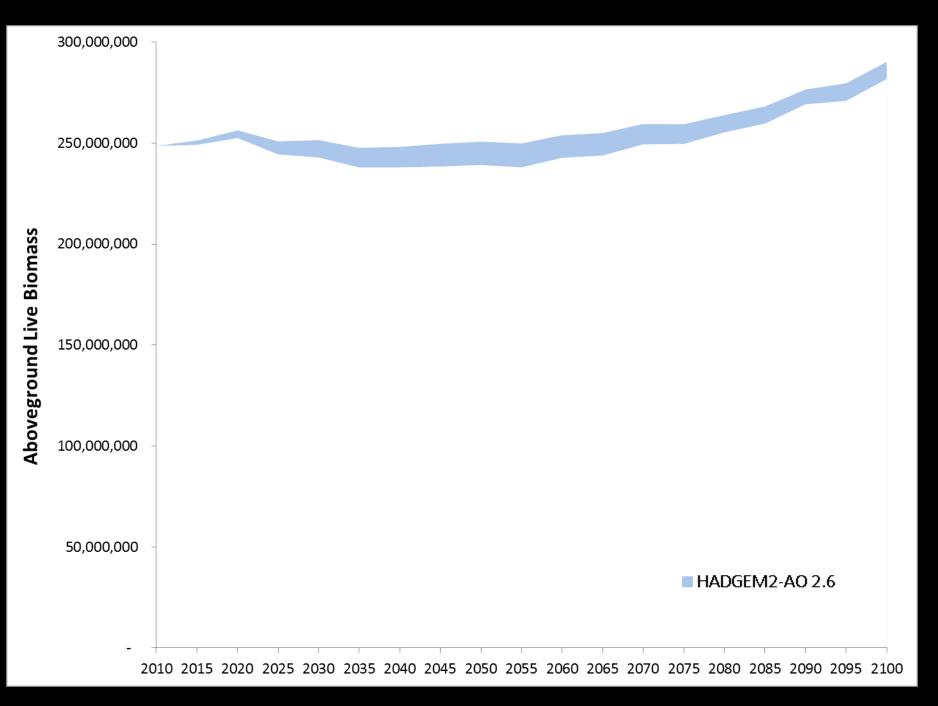


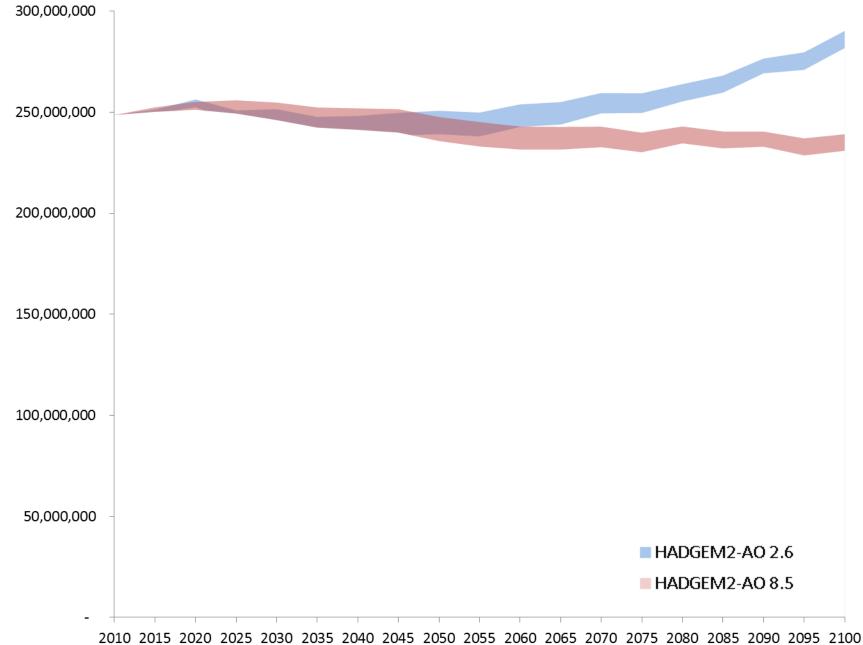
- Ownership ca. 2010
- >80 owners
- >500 parcels



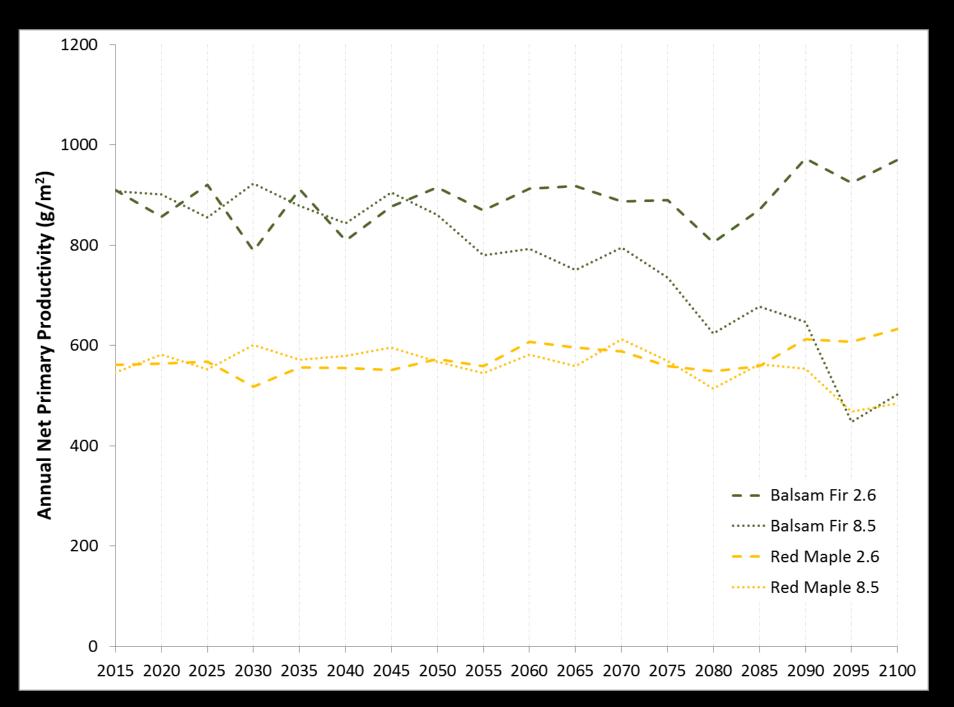


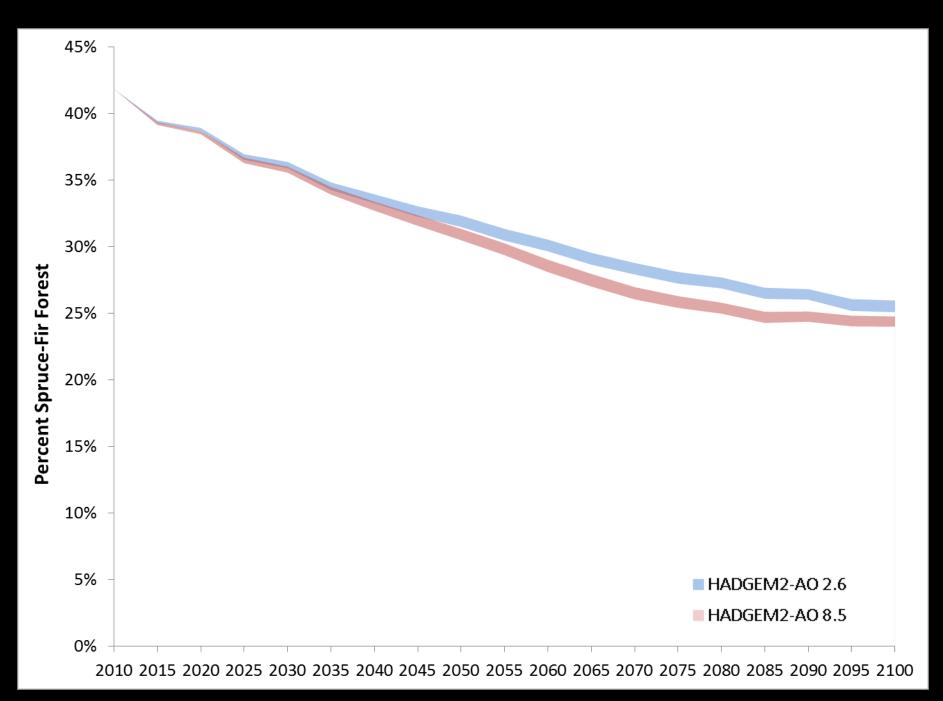
1970 1975 1980 1985 1990 1995 2000 2005 2010 2015 2020 2025 2030 2035 2040 2045 2050 2055 2060 2065 2070 2075 2080 2085 2090 2095





Aboveground Live Biomass





Sixty Years of Silviculture in a Northern Conifer Forest in Maine, USA

Nicole S. Rogers, Laura S. Kenefic, Mindy S. Crandall, Robert S. Seymour, and Paul E. Sendak

