

PATTERNS OF ABOVEGROUND BIOMASS ACCUMULATION IN A NORTHERN TEMPERATE FOREST

John B. Richardson¹, Mark J. Ducey^{1,3}, Marie-Louise Smith²

¹University of New Hampshire, Department of Natural Resources, 215 James Hall,
Durham, NH 03824

²Northeastern Research Station, USDA Forest Service, Durham, NH

³Author for correspondence. mjducey@cisunix.unh.edu

Current detailed understanding of the role forest ecosystems play in the Earth's carbon budget is often limited to small areas and short time spans. In order to better understand the role that these forest ecosystems play in the global carbon budget it is necessary to understand the dynamics of biomass accumulation and the patterns of change that occur through time and arising from both anthropogenic and natural disturbances. Here we present preliminary results of an analysis of patterns of change in standing aboveground biomass across a broad spatial (1050 ha) and temporal (>75 years) scale for the Bartlett Experimental Forest, located in White Mountain National Forest, New Hampshire, USA.