

# Carbon Balance of the Southeastern U.S. Forest Sector as Driven by Recent Disturbance Trends

Gu H, Williams CA et al. (2019) *JGR-Biogeosciences*, <https://doi.org/10.1029/2018jg004841>

**Net Ecosystem Productivity decreased by 27%** from 1986 to 2010 **due to a 30% increase in annual harvesting** and associated in-forest disturbance emissions. (avg. NEP 97 g C m<sup>-2</sup> y<sup>-1</sup>)

Average annual **biomass growth largely balanced harvest removals**, with region-wide live biomass stocks varying little over time.

(avg. AGB 5.0 kg C m<sup>-2</sup> or 1780 Tg C)

Two-thirds of harvest removals are emitted within 50 years, 8% as methane, so that the **forest sector was a large CO<sub>2</sub>-equivalent source of carbon to the atmosphere.**

Estimates for Year 2010

