

A Moderate-Resolution, Long-Term Global Radar-Based Forest Above-Ground Biomass Dataset from 1993 to 2020

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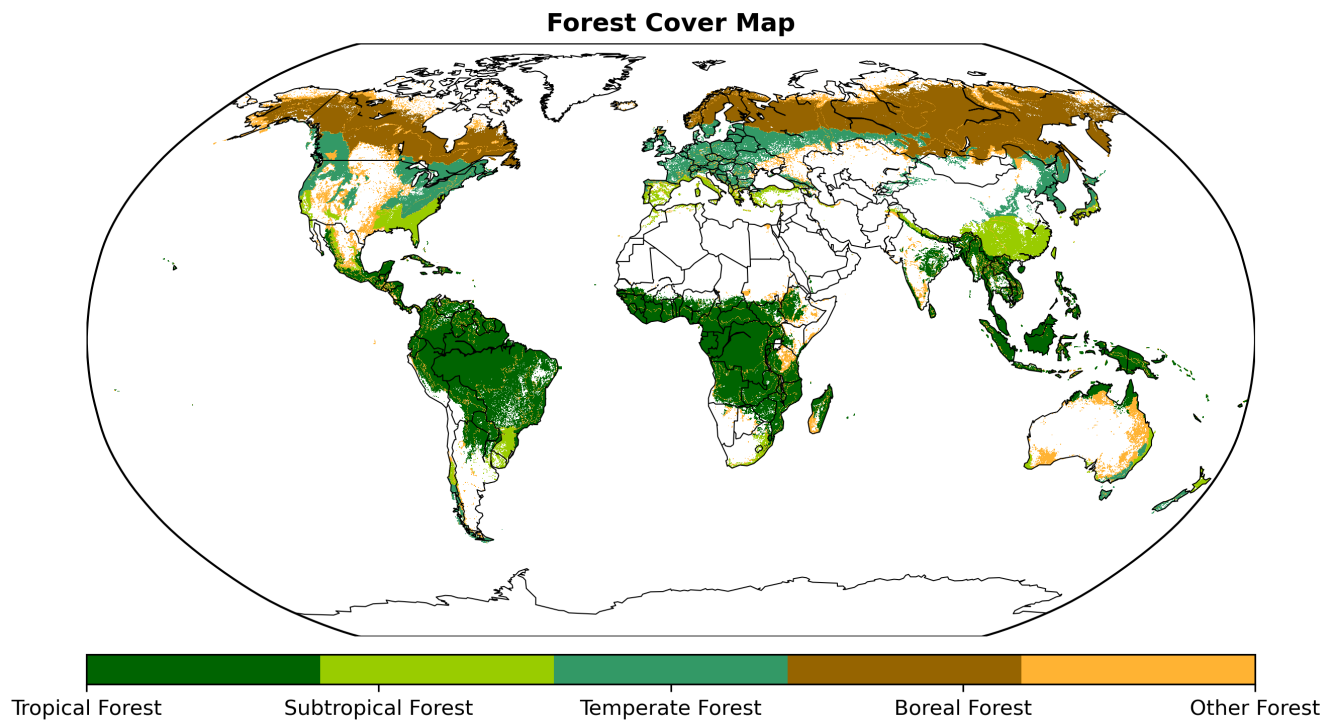


Figure S1. Ecoregion maps used in this study.

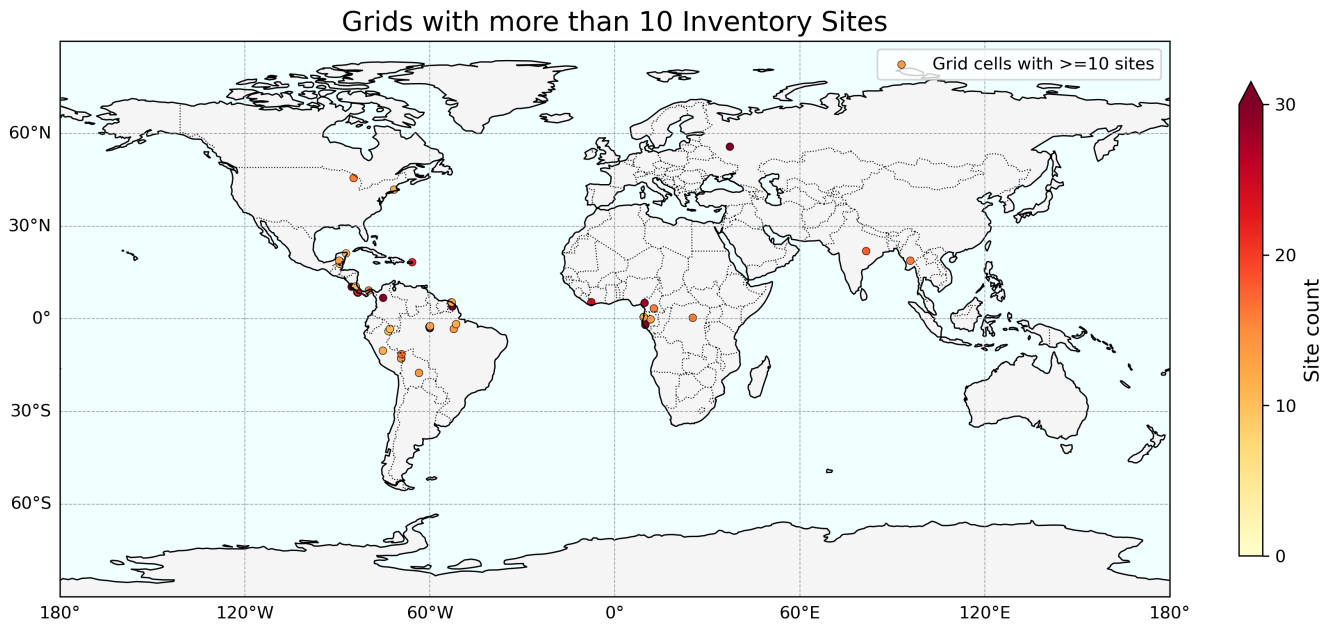


Figure S2. Spatial distribution of grid cells containing at least 10 inventory plots.

Table S1. Legend of the FAO Global Ecological Zones dataset (FAO, 2001)

Domain	Zone code	Zone name
Tropical forest	11	Tropical rain forest
	12	Tropical moist deciduous forest
	13	Tropical dry forest
	16	Tropical mountain systems
Subtropical forest	21	Subtropical humid forest
	22	Subtropical dry forest
	25	Subtropical mountain systems
Temperate forest	31	Temperate oceanic forest
	32	Temperate continental forest
	35	Temperate mountain systems
Boreal forest	41	Boreal coniferous forest
	42	Boreal tundra woodland
	43	Boreal mountain systems

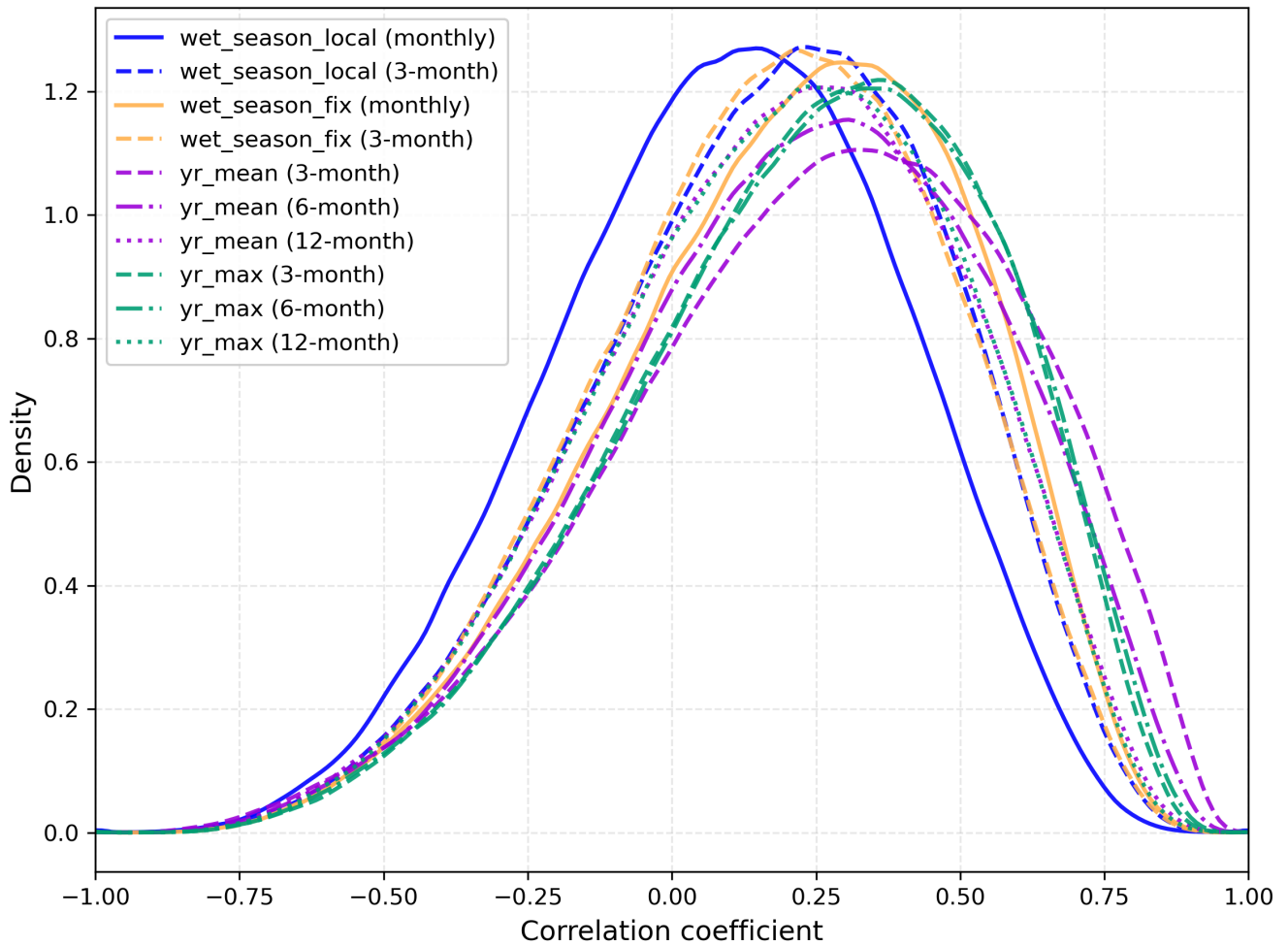
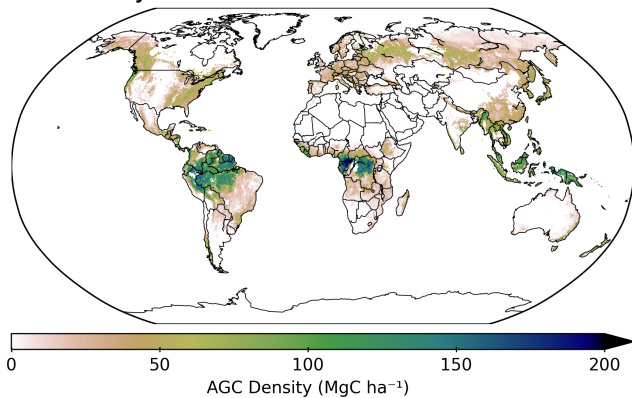
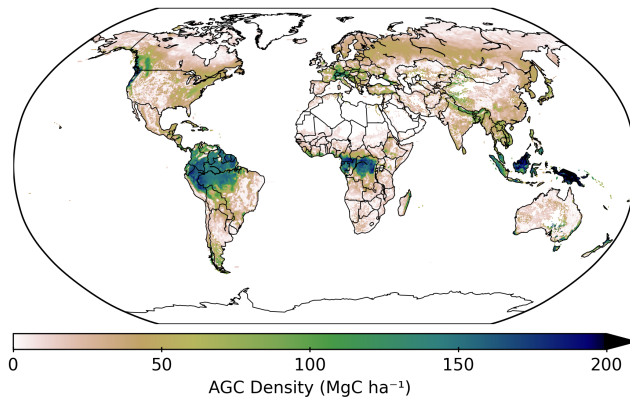


Figure S3. Distribution of correlation coefficients between radar signal index and soil moisture. Four classes are presented: wet season local (blue), wet season fixed (orange), yearly mean (purple), and yearly maximum (teal). Within each class, different line styles distinguish temporal windows: solid line for monthly values, dashed line for 3-month moving averages, dash-dot line for 6-month moving averages, and dotted line for 12-month moving averages.

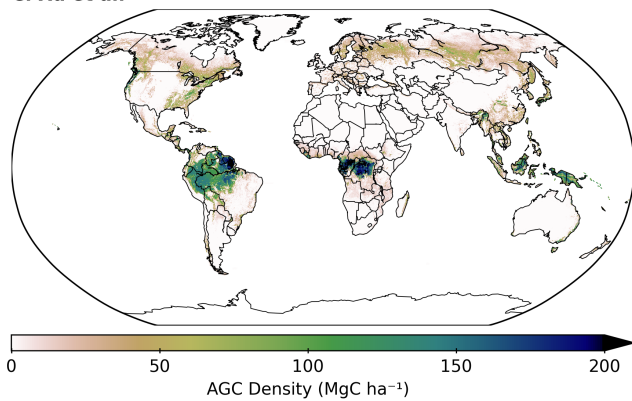
A. This study



B. Santoro et al.



C. Xu et al.



D. SMOS

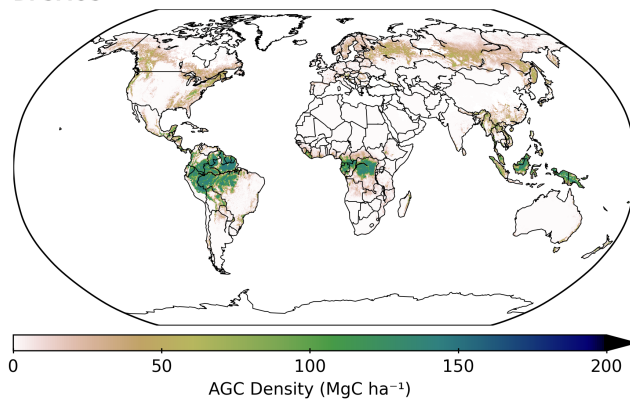


Figure S4. Comparison of the mean spatial distribution in AGC from 2017 to 2020 between our study and three other AGC products.