

Field-quantified responses of tropical rainforest above
CO₂ and climatic stress, 1997–2009

Journal of Geophysical Research G: Biogeosciences

118, 783-794

DOI: [10.1002/jgrg.20067](https://doi.org/10.1002/jgrg.20067)

Citation Report

#	ARTICLE	IF	CITATIONS
1	High sensitivity of a tropical rainforest to water variability: Evidence from 10 years of inventory and eddy flux data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9393-9400.	1.2	22
2	Pan-Tropical Analysis of Climate Effects on Seasonal Tree Growth. <i>PLoS ONE</i> , 2014, 9, e92337.	1.1	50
3	Moving beyond photosynthesis: from carbon source to sink-driven vegetation modeling. <i>New Phytologist</i> , 2014, 201, 1086-1095.	3.5	421
4	Aboveground Tree Growth Varies with Belowground Carbon Allocation in a Tropical Rainforest Environment. <i>PLoS ONE</i> , 2014, 9, e100275.	1.1	44
5	Temperature and rainfall strongly drive temporal growth variation in Asian tropical forest trees. <i>Oecologia</i> , 2014, 174, 1449-1461.	0.9	122
6	Disturbance, productivity, and species diversity: empiricism vs. logic in ecological theory. <i>Ecology</i> , 2014, 95, 2382-2396.	1.5	196
7	Methods to estimate aboveground wood productivity from long-term forest inventory plots. <i>Forest Ecology and Management</i> , 2014, 320, 30-38.	1.4	75
8	Sensitivity of tropical forest aboveground productivity to climate anomalies in SW Costa Rica. <i>Global Biogeochemical Cycles</i> , 2014, 28, 1437-1454.	1.9	26
9	Thermal acclimation of leaf respiration of tropical trees and lianas: response to experimental canopy warming, and consequences for tropical forest carbon balance. <i>Global Change Biology</i> , 2014, 20, 2915-2926.	4.2	96
10	Allocation trade-offs dominate the response of tropical forest growth to seasonal and interannual drought. <i>Ecology</i> , 2014, 95, 2192-2201.	1.5	86
11	Contrasting impacts of continuous moderate drought and episodic severe droughts on the aboveground biomass increment and litterfall of three coexisting Mediterranean woody species. <i>Global Change Biology</i> , 2015, 21, 4196-4209.	4.2	70
12	The Rainfall Sensitivity of Tropical Net Primary Production in CMIP5 Twentieth- and Twenty-First-Century Simulations*. <i>Journal of Climate</i> , 2015, 28, 9313-9331.	1.2	1
13	Interannual and seasonal variability of water use efficiency in a tropical rainforest: Results from a 9 year eddy flux time series. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 464-479.	1.2	46
14	Tropical nighttime warming as a dominant driver of variability in the terrestrial carbon sink. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15591-15596.	3.3	92
15	Effect of increasing CO ₂ on the terrestrial carbon cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 436-441.	3.3	487
16	Tree growth variation in the tropical forest: understanding effects of temperature, rainfall and CO ₂ . <i>Global Change Biology</i> , 2015, 21, 2749-2761.	4.2	50
17	Urgent need for warming experiments in tropical forests. <i>Global Change Biology</i> , 2015, 21, 2111-2121.	4.2	168
18	New insights into mechanisms driving carbon allocation in tropical forests. <i>New Phytologist</i> , 2015, 205, 137-146.	3.5	23

#	ARTICLE	IF	CITATIONS
19	A comparison of plot-based satellite and Earth system model estimates of tropical forest net primary production. <i>Global Biogeochemical Cycles</i> , 2015, 29, 626-644.	1.9	55
20	Negative density-dependent mortality varies over time in a wet tropical forest, advantaging rare species, common species, or no species. <i>Oecologia</i> , 2015, 179, 853-861.	0.9	32
21	Future productivity and carbon storage limited by terrestrial nutrient availability. <i>Nature Geoscience</i> , 2015, 8, 441-444.	5.4	529
22	Long-term decline of the Amazon carbon sink. <i>Nature</i> , 2015, 519, 344-348.	13.7	796
23	Signs of saturation in the tropical carbon sink. <i>Nature</i> , 2015, 519, 295-296.	13.7	13
24	A 21st Century Viewpoint on Natural Tropical Forest Silviculture. , 2015, , 1-28.		0
25	Does functional trait diversity predict above-ground biomass and productivity of tropical forests? Testing three alternative hypotheses. <i>Journal of Ecology</i> , 2015, 103, 191-201.	1.9	265
26	Abiotic Controls on Macroscale Variations of Humid Tropical Forest Height. <i>Remote Sensing</i> , 2016, 8, 494.	1.8	11
27	Influence of arbuscular mycorrhizal colonization on whole-plant respiration and thermal acclimation of tropical tree seedlings. <i>Ecology and Evolution</i> , 2016, 6, 859-870.	0.8	16
28	Increased Atmospheric CO ₂ Growth Rate during El Niño Driven by Reduced Terrestrial Productivity in the CMIP5 ESMs. <i>Journal of Climate</i> , 2016, 29, 8783-8805.	1.2	40
29	Lianas and soil nutrients predict fine-scale distribution of above-ground biomass in a tropical moist forest. <i>Journal of Ecology</i> , 2016, 104, 1819-1828.	1.9	28
30	Global change effects on humid tropical forests: Evidence for biogeochemical and biodiversity shifts at an ecosystem scale. <i>Reviews of Geophysics</i> , 2016, 54, 523-610.	9.0	73
31	Causes of uncertainty in China's net primary production over the 21st century projected by the CMIP5 Earth system models. <i>International Journal of Climatology</i> , 2016, 36, 2323-2334.	1.5	14
32	Large divergence of satellite and Earth system model estimates of global terrestrial CO ₂ fertilization. <i>Nature Climate Change</i> , 2016, 6, 306-310.	8.1	309
33	The Effects of Rising Temperature on the Ecophysiology of Tropical Forest Trees. <i>Tree Physiology</i> , 2016, , 385-412.	0.9	36
34	Shifts in biomass and productivity for a subtropical dry forest in response to simulated elevated hurricane disturbances. <i>Environmental Research Letters</i> , 2017, 12, 025007.	2.2	18
35	Growth and reproduction respond differently to climate in three Neotropical tree species. <i>Oecologia</i> , 2017, 184, 531-541.	0.9	29
36	Partitioning controls on Amazon forest photosynthesis between environmental and biotic factors at hourly to interannual timescales. <i>Global Change Biology</i> , 2017, 23, 1240-1257.	4.2	102

#	ARTICLE	IF	CITATIONS
37	Temporal Variability of Soil Respiration in Experimental Tree Plantations in Lowland Costa Rica. <i>Forests</i> , 2017, 8, 40.	0.9	14
38	Trailblazing the Carbon Cycle of Tropical Forests from Puerto Rico. <i>Forests</i> , 2017, 8, 101.	0.9	12
39	Reviews and syntheses: Field data to benchmark the carbon cycle models for tropical forests. <i>Biogeosciences</i> , 2017, 14, 4663-4690.	1.3	27
40	Multidecadal stability in tropical rain forest structure and dynamics across an old-growth landscape. <i>PLoS ONE</i> , 2017, 12, e0183819.	1.1	7
41	Long-term increases in tropical flowering activity across growth forms in response to rising CO_2 and climate change. <i>Global Change Biology</i> , 2018, 24, 2105-2116.	4.2	19
42	High tolerance of tropical sapling growth and gas exchange to moderate warming. <i>Functional Ecology</i> , 2018, 32, 599-611.	1.7	43
43	What controls variation in carbon use efficiency among Amazonian tropical forests?. <i>Biotropica</i> , 2018, 50, 16-25.	0.8	28
44	ENSO Drives interannual variation of forest woody growth across the tropics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170410.	1.8	41
45	Impacts of shaded agroforestry management on carbon sequestration, biodiversity and farmers income in cocoa production landscapes. <i>Landscape Ecology</i> , 2018, 33, 1953-1974.	1.9	38
46	How does the terrestrial carbon exchange respond to inter-annual climatic variations? A quantification based on atmospheric CO_2 data. <i>Biogeosciences</i> , 2018, 15, 2481-2498.	1.3	68
47	Ecosystem heterogeneity and diversity mitigate Amazon forest resilience to frequent extreme droughts. <i>New Phytologist</i> , 2018, 219, 914-931.	3.5	64
48	Decadal-scale litter manipulation alters the biochemical and physical character of tropical forest soil carbon. <i>Soil Biology and Biochemistry</i> , 2018, 124, 199-209.	4.2	32
49	PhotoSpec: A new instrument to measure spatially distributed red and far-red Solar-Induced Chlorophyll Fluorescence. <i>Remote Sensing of Environment</i> , 2018, 216, 311-327.	4.6	100
50	Tropical forest canopies and their relationships with climate and disturbance: results from a global dataset of consistent field-based measurements. <i>Forest Ecosystems</i> , 2018, 5, .	1.3	24
51	Tropical forest temperature thresholds for gross primary productivity. <i>Ecosphere</i> , 2018, 9, e02311.	1.0	69
52	Tree radial growth is projected to decline in South Asian moist forest trees under climate change. <i>Global and Planetary Change</i> , 2018, 170, 106-119.	1.6	37
53	ENSO-Influenced Drought Drives Methane Flux Dynamics in a Tropical Wet Forest Soil. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2267-2276.	1.3	10
54	Current and future potential distributions of three <i>Dracaena</i> Vand. ex L. species under two contrasting climate change scenarios in Africa. <i>Ecology and Evolution</i> , 2019, 9, 6833-6848.	0.8	11

#	ARTICLE	IF	CITATIONS
55	Spatial and Temporal Variations in Aboveground Woody Carbon Storage for Cerrado Forests and Woodlands of Mato Grosso, Brazil. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3252-3268.	1.3	8
56	Adaptability and stability of eucalypt clones at different ages across environmental gradients in Brazil. <i>Forest Ecology and Management</i> , 2019, 454, 117631.	1.4	25
57	Diversity, distribution and dynamics of large trees across an old-growth lowland tropical rain forest landscape. <i>PLoS ONE</i> , 2019, 14, e0224896.	1.1	17
58	The Effects of Phosphorus Cycle Dynamics on Carbon Sources and Sinks in the Amazon Region: A Modeling Study Using ELM v1. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3686-3698.	1.3	29
59	Have Synergies Between Nitrogen Deposition and Atmospheric CO ₂ Driven the Recent Enhancement of the Terrestrial Carbon Sink?. <i>Global Biogeochemical Cycles</i> , 2019, 33, 163-180.	1.9	37
60	Soil warming effects on tropical forests with highly weathered soils. , 2019, , 385-439.		13
61	Trends in tree growth and intrinsic water-use efficiency in the tropics under elevated CO ₂ and climate change. <i>Trees - Structure and Function</i> , 2019, 33, 623-640.	0.9	41
62	Prediction of forest aboveground net primary production from high-resolution vertical leaf area profiles. <i>Ecology Letters</i> , 2019, 22, 538-546.	3.0	8
63	Modelling carbon sources and sinks in terrestrial vegetation. <i>New Phytologist</i> , 2019, 221, 652-668.	3.5	163
64	Interannual variation of terrestrial carbon cycle: Issues and perspectives. <i>Global Change Biology</i> , 2020, 26, 300-318.	4.2	214
65	Testing for changes in biomass dynamics in large-scale forest datasets. <i>Global Change Biology</i> , 2020, 26, 1485-1498.	4.2	14
66	A multi-scaled analysis of forest structure using individual-based modeling in a costa rican rainforest. <i>Ecological Modelling</i> , 2020, 433, 109226.	1.2	5
67	Effects of moderate warming on growth and physiological performance of subtropical saplings in southern China. <i>Acta Physiologiae Plantarum</i> , 2020, 42, 1.	1.0	0
68	Canopy structure and forest understory conditions in a wet Amazonian forest—No change over the last 20 years. <i>Biotropica</i> , 2020, 52, 1121-1126.	0.8	3
69	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020, 368, 869-874.	6.0	198
70	Aboveground Carbon Storage and Cycling of Flooded and Upland Forests of the Brazilian Pantanal. <i>Forests</i> , 2020, 11, 665.	0.9	5
71	Understanding spatiotemporal patterns of global forest NPP using a data-driven method based on GEE. <i>PLoS ONE</i> , 2020, 15, e0230098.	1.1	10
72	Forest responses to simulated elevated CO ₂ under alternate hypotheses of size- and age-dependent mortality. <i>Global Change Biology</i> , 2020, 26, 5734-5753.	4.2	18

#	ARTICLE	IF	CITATIONS
73	The Central Amazon Biomass Sink Under Current and Future Atmospheric CO ₂ : Predictions From Big-Leaf and Demographic Vegetation Models. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005500.	1.3	23
74	Warming effects on morphological and physiological performances of four subtropical montane tree species. <i>Annals of Forest Science</i> , 2020, 77, 1.	0.8	14
75	The Organization for Tropical Studies: History, accomplishments, future directions in education and research, with an emphasis in the contributions to the study of plant reproductive ecology and genetics in tropical ecosystems. <i>Biological Conservation</i> , 2021, 253, 108890.	1.9	2
76	ForestGEO: Understanding forest diversity and dynamics through a global observatory network. <i>Biological Conservation</i> , 2021, 253, 108907.	1.9	122
77	Habitat Quality Differentiation and Consequences for Ecosystem Service Provision of an Amazonian Hyperdominant Tree Species. <i>Frontiers in Plant Science</i> , 2021, 12, 621064.	1.7	7
78	Warming induces divergent stomatal dynamics in co-occurring boreal trees. <i>Global Change Biology</i> , 2021, 27, 3079-3094.	4.2	9
79	Impact of a tropical forest blowdown on aboveground carbon balance. <i>Scientific Reports</i> , 2021, 11, 11279.	1.6	4
80	Variation in trunk taper of buttressed trees within and among five lowland tropical forests. <i>Biotropica</i> , 2021, 53, 1442-1453.	0.8	8
81	Climate-induced hysteresis of the tropical forest in a fire-enabled Earth system model. <i>European Physical Journal: Special Topics</i> , 2021, 230, 3153-3162.	1.2	4
82	Adjusting xylem anatomy and growth to inter-annual climate variability in two Fabaceae species (<i>Centrolobium microchaete</i> , <i>Cenostigma pluviosum</i>) from Bolivian dry tropical forests. <i>Dendrochronologia</i> , 2021, 67, 125840.	1.0	3
83	CM2Mc-LPJmL v1.0: biophysical coupling of a process-based dynamic vegetation model with managed land to a general circulation model. <i>Geoscientific Model Development</i> , 2021, 14, 4117-4141.	1.3	13
84	Accurate Simulation of Both Sensitivity and Variability for Amazonian Photosynthesis: Is It Too Much to Ask?. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002555.	1.3	3
85	21st Century Viewpoint on Tropical Silviculture. , 2016, , 1605-1638.		1
86	Recent CO ₂ rise has modified the sensitivity of tropical tree growth to rainfall and temperature. <i>Global Change Biology</i> , 2020, 26, 4028-4041.	4.2	30
87	Becoming Europe: Southeast Asia in the Anthropocene. <i>Elementa</i> , 2013, 1, .	1.1	3
88	Tropical Rain Forest Structure, Tree Growth and Dynamics along a 2700-m Elevational Transect in Costa Rica. <i>PLoS ONE</i> , 2015, 10, e0122905.	1.1	54
89	Modeling the Effects of Global Change on Ecosystem Processes in a Tropical Rainforest. <i>Forests</i> , 2020, 11, 213.	0.9	7
90	Impact of rising temperatures on the biomass of humid old-growth forests of the world. <i>Carbon Balance and Management</i> , 2021, 16, 31.	1.4	8

#	ARTICLE	IF	CITATIONS
91	Tropical Forest Ecology in the Anthropocene. , 2014, , 1-6.		0
92	Tropical Forest Ecology in the Anthropocene. , 2016, , 471-477.		1
93	Spatial and temporal scales of canopy disturbance and recovery across an old-growth tropical rain forest landscape. Ecological Monographs, 2022, 92, .	2.4	1
94	Annual Tropical Rainforest Productivity Through Two Decades: Complex Responses to Climatic Factors, [CO ₂] and Storm Damage. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006557.	1.3	2
95	Broad-Scale and Long-Term Forest Growth Predictions and Management for Native, Mixed Species Plantations and Teak in Costa Rica and Panama. SSRN Electronic Journal, 0, , .	0.4	0
97	Addressing Gender Inequities in Forest Science and Research. Forests, 2022, 13, 400.	0.9	5
98	Tropical tree growth driven by dry-season climate variability. Nature Geoscience, 2022, 15, 269-276.	5.4	38
99	Global distribution, formation and fate of mineral-associated soil organic matter under a changing climate: A trait-based perspective. Functional Ecology, 2022, 36, 1411-1429.	1.7	53
100	Warming induced tree-growth decline of <i>Toona ciliata</i> in (sub-) tropical southwestern China. Dendrochronologia, 2022, 73, 125954.	1.0	5
101	Climate Signals in Stable Isotope Tree-Ring Records. Tree Physiology, 2022, , 537-579.	0.9	6
102	Net Primary Production and Ecosystem Carbon Flux of Brazilian Tropical Savanna Ecosystems From Eddy Covariance and Inventory Methods. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	2
103	Broad-scale and long-term forest growth predictions and management for native, mixed species plantations and teak in Costa Rica and Panama. Forest Ecology and Management, 2022, 520, 120386.	1.4	4
104	Short-term recovery of soil and pine tree canopy after late prescribed burning in a semi-arid landscape. Science of the Total Environment, 2023, 855, 159044.	3.9	2
105	Beyond Carbon: The Contributions of South American Tropical Humid and Subhumid Forests to Ecosystem Services. Reviews of Geophysics, 2022, 60, .	9.0	14
106	On the Responses of Mangrove Trophic Interactions to Climate Change. , 2023, , .		1