Long-term phenology monitoring and experimental insights from the Central Amazon

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I will share insights from over a decade of research in the Central Amazon, where I have been investigating the ecological dynamics of tropical forests in the context of changing environmental conditions. Using long-term phenology and tree mortality monitoring data, I will present key patterns and climate drivers that shape the behavior of trees and the differences among tree species.

I will also present preliminary results from the AmazonFACE project (Amazon Free-Air CO_2 Enrichment), using open-top chambers installed in the understorey of an old-growth forest. These results provide early evidence of the potential effects of elevated CO_2 on plant physiology and forest functioning while the full-scale experiment is still being installed.

I will conclude with implications of both the long-term studies and the short-term CO_2 experiments for our understanding of how tropical forests respond to environmental changes.

Dept Life Science Systems

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