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Title Classification of functional vegetation group using water deficit and actual evapotranspiration across diverse ecosystems and climatic zones using FLUXNET database

Outline Classification of functional vegetation group is a critical research area for upscaling flux tower measurements into regional, continental and global scales. Here, we will introduce the relation of water deficit (i.e. potential evapotranspiration minus precipitation) and actual evapotranspiration for the classification [Stephenson, 1990]. Based on FLUXNET database across diverse ecosystems and climatic zones, we will test and update the classification of functional vegetation group and investigate how the relations were modulated by the climatic perturbations (e.g. drought).

Stephenson, N.L., Climatic Control of Vegetation Distribution - the Role of the Water-Balance, *Am. Nat.*, 135 (5), 649-670, 1990.