

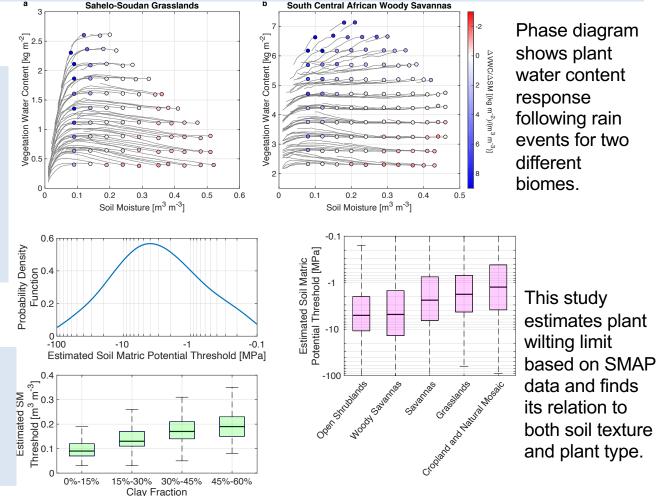
Moisture Pulse-Reserve in the Soil-Plant Continuum Observed Across Biomes



Problem: The range of vegetation response to pulse-availability of moisture that drives water, energy and carbon exchanges between land and atmosphere is not known.

Finding: SMAP-based simultaneous estimates of soil and plant water storage dynamics show evidence of pulseresponse behavior across more than half of global ecosystems.

Impact: Intermittency as well as mean resources availability drives land-atmosphere water, energy and carbon exchanges.



Feldman, Gianotti, Konings, McColl, Akbar, Salvucci, Entekhabi, 2018: Moisture pulse-reserve in the soil-plant continuum observed across biomes, *Nature-Plants*.