

Global Surface Soil Moisture Drydown Patterns

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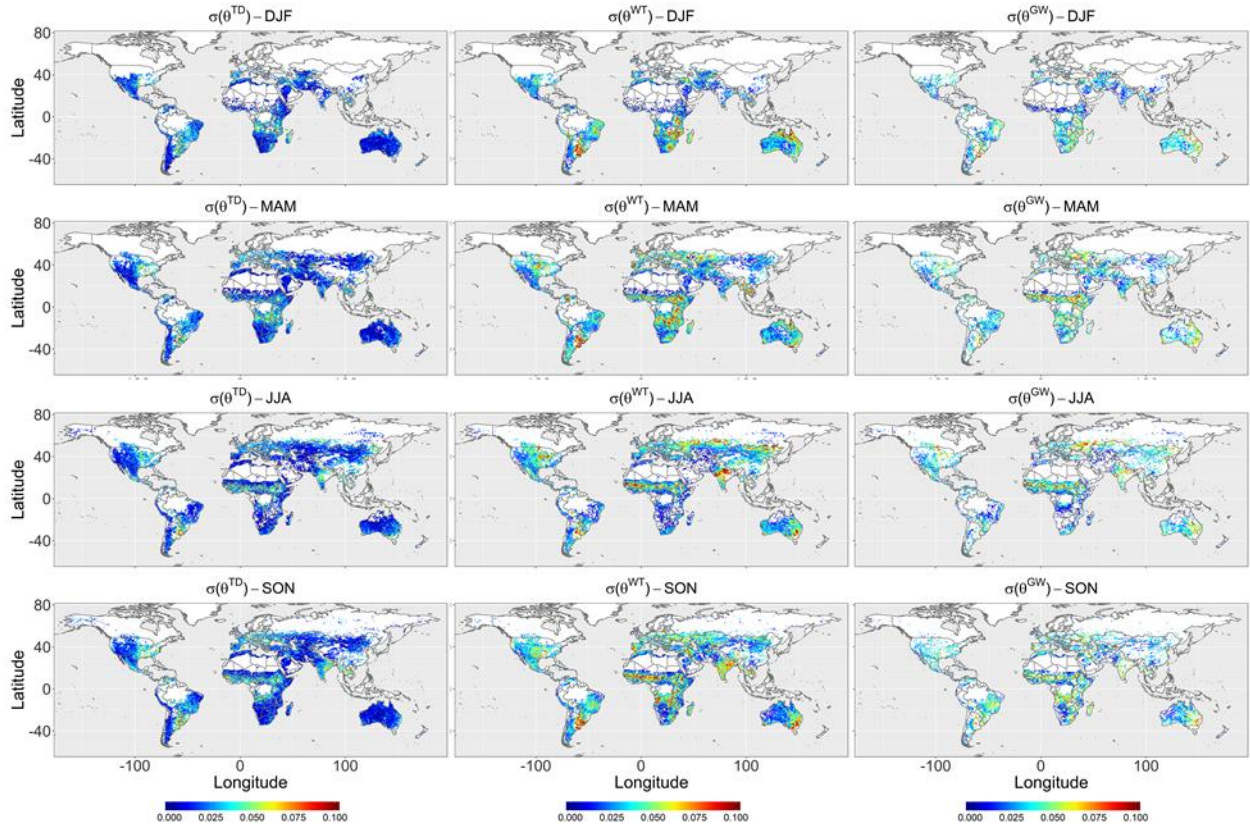


Figure S1: Standard deviation for the estimates of θ^{TD} , θ^{WT} and θ^{GW} (in m³/m³).

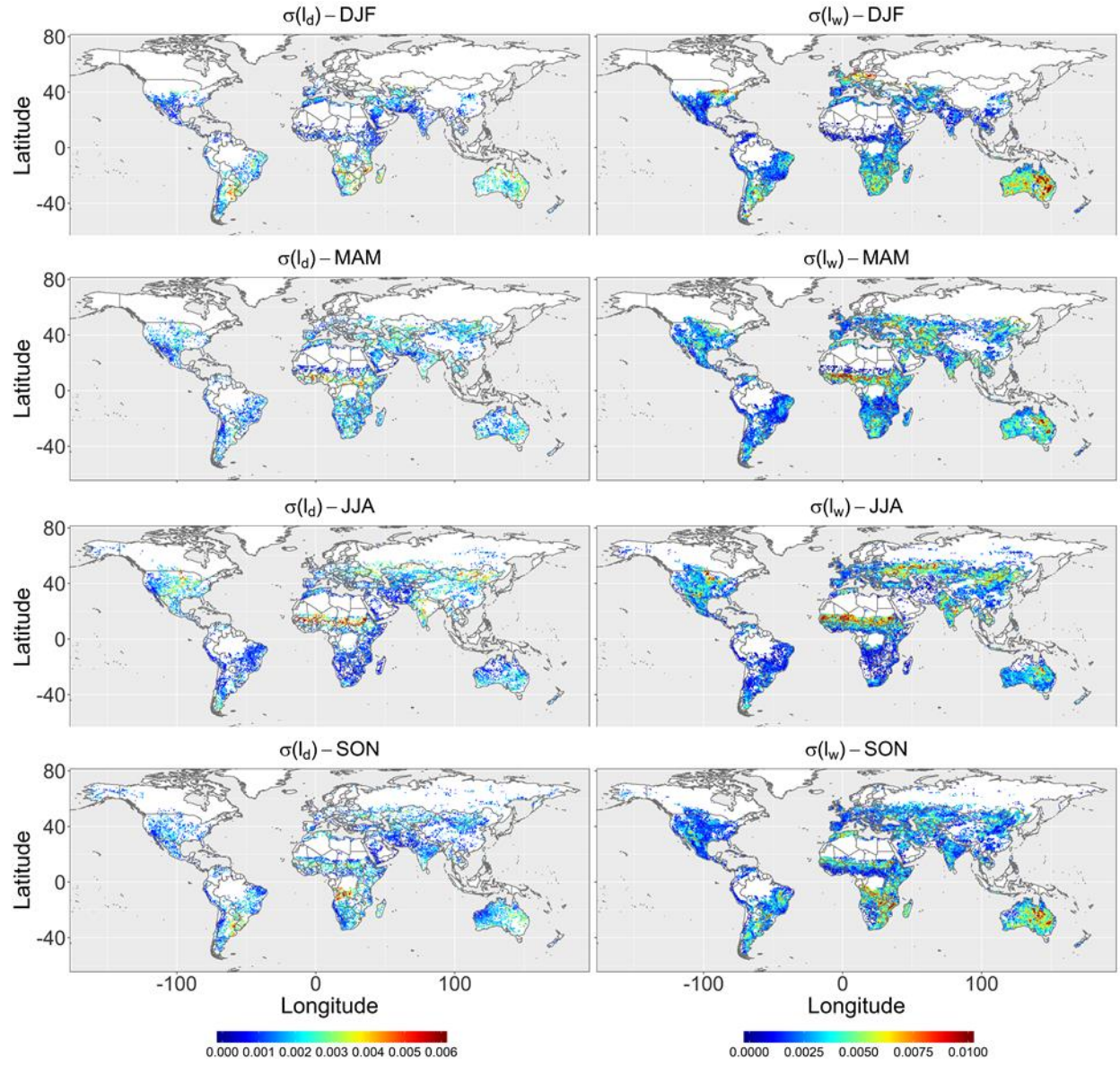


Figure S2: Standard deviation for the estimates of l_d and l_w (in $\text{m}^3/\text{m}^3/\text{day}$).

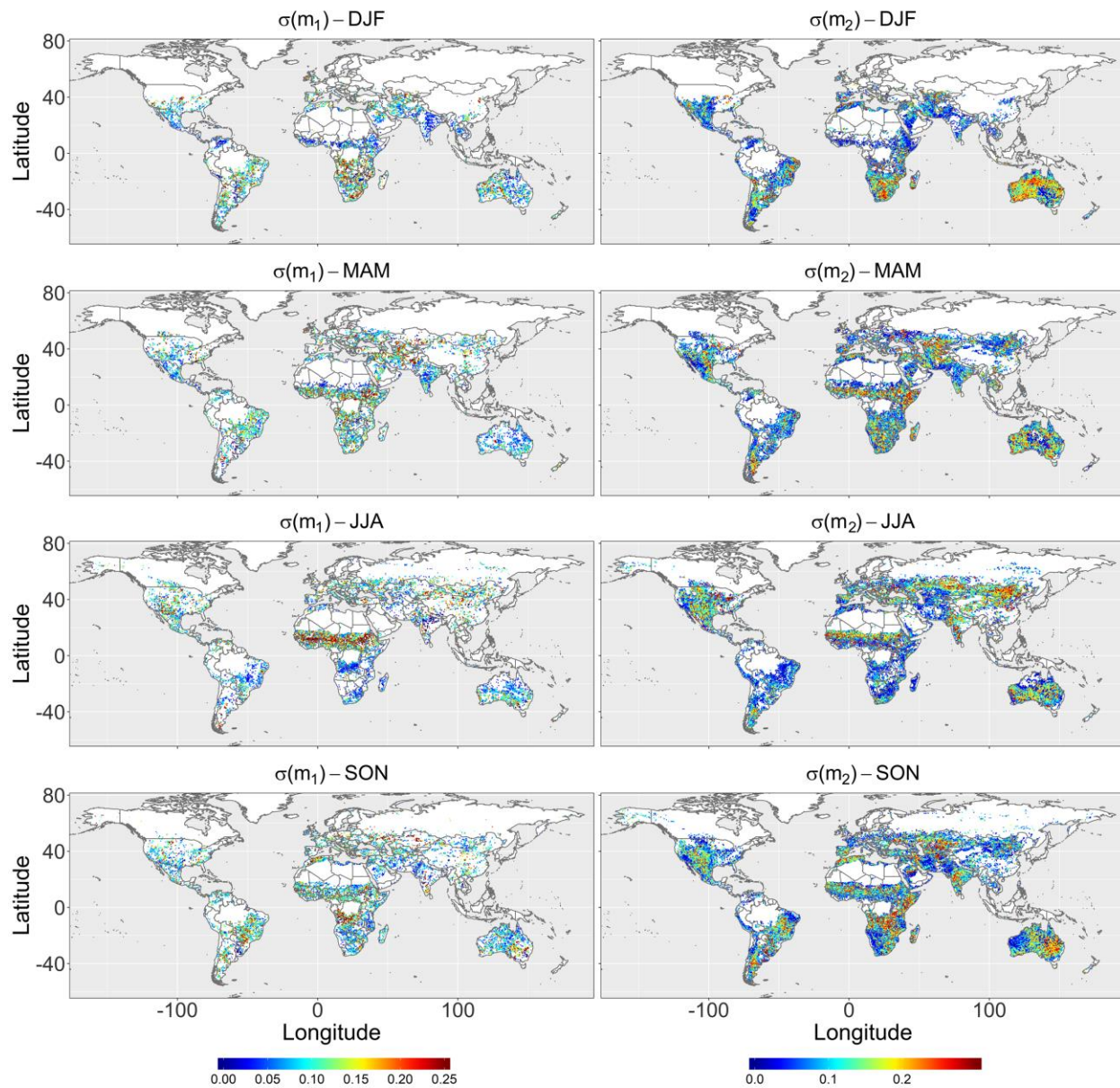


Figure S3: Standard deviation for the estimates of m_1 and m_2 (day⁻¹).

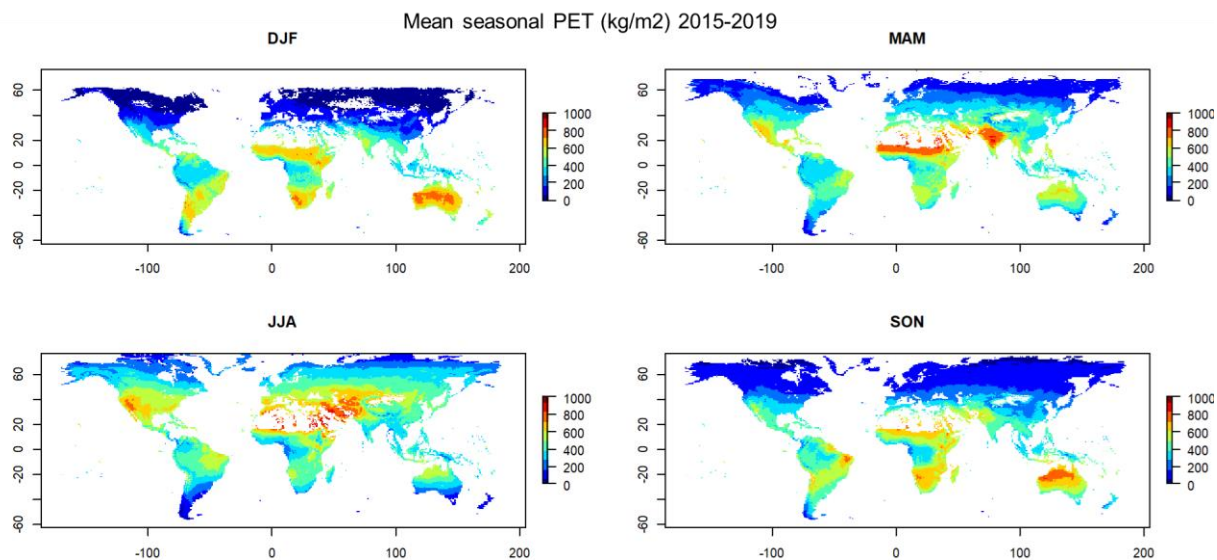


Figure S4: Mean Potential Evapotranspiration (PET) in kg/m²/8-day for four seasons namely DJF, MAM, JJA, SON. PET values are obtained from Moderate Resolution Imaging Spectroradiometer (MODIS) for the period matching SMAP observations used in this study i.e. March 2015-2019.