

Figure S1: Maps of the highest correlations between SPI and model ensemble mean SSMI, SRI, and SSFI, for summer and winter droughts. Pixels where those correlations are not statistically significant (p < 0.05) are masked.

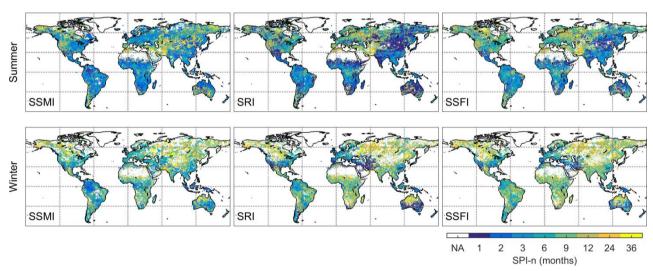


Figure S2: The SPI accumulation period (SPI-n) resulting in the highest correlations with model ensemble mean SSMI, SRI, and SSFI, for summer and winter droughts. Droughts in SSMI, SRI, and SSFI were identified by SI \leq -0.5. Pixels where those correlations are not statistically significant (p < 0.05) are masked.

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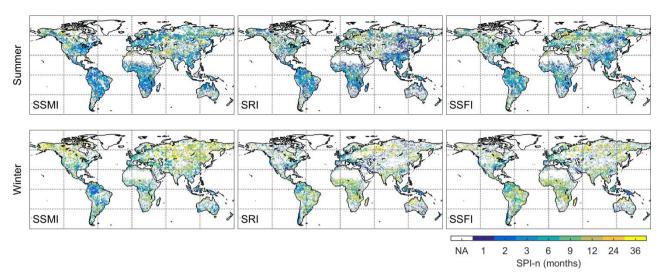


Figure S3: The SPI accumulation period (SPI-n) resulting in the highest correlations with model ensemble mean SSMI, SRI, and SSFI, for summer and winter droughts. Droughts in SSMI, SRI, and SSFI were identified by SI ≤ -1 . Pixels where those correlations are not statistically significant (p < 0.05) are masked.