

*Earth’s Future*

Supporting Information for

**Future drought in the drylands of Asia under the 1.5ºC and 2.0ºC warming scenarios**

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Figures S1 and Figure S2

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Figure S1. Spatial pattern of linear trends from 1986 to 2018 in dryland Asia, as indicated by precipitation (P) (a), temperature (T) (b), potential evapotranspiration (PET) (c) and P-PET (d). The black and red dotted areas denote regions that experienced significant changes in drought intensity at the 5% and 1% significance levels, respectively.



Figure S2. Spatial pattern of the linear trend of the precipitation gap (a: 1.5°C minus the historical trend, d: 2.0°C minus the historical trend, g: 2.0°C minus 1.5°C), PET gap (b: 1.5°C minus the historical trend, e: 2.0°C minus the historical trend, h: 2.0°C minus 1.5°C) and P-PET gap (c: 1.5°C minus the historical trend, f: 2.0°C minus the historical trend, i: 2.0°C minus 1.5°C) in dryland Asia for the reference period (1986–2005) and the 1.5°C/2.0°C global warming periods (2020–2039/2040–2059).