Supplement of

Added value of seasonal hindcasts to create UK hydrological drought storylines

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Supplementary materials

Figure S1: Standardised precipitation anomalies associated with La Niña (red) and El Niño (blue) winters in each circulation storyline.

Figure S2: Composite mean temperature anomalies for each winter cluster
Figure S3: Model performance statistics of across the selected catchments for each of the six evaluation metrics.

Figure S4: Observed (black) and simulated (red) river flows over the baseline period for six example catchments.
Figure S5: Observed (black) and simulated (red) standardised streamflow index accumulated over 3 months (SSI-3) for the period 2021-2022. Observed SSI-3 is taken from the UKCEH Water Resources Portal (https://eip.ceh.ac.uk/hydrology/water-resources/)

Figure S6: Outlook of river flows represented in percentile terms relative to 1965-2015. Equivalent to Figure 5 but across all 2850 winters in SEAS5 instead of the four clusters. Individual plots show the distribution of hindcast winters for each percentile category as indicated by the colour key. © British Geological Survey materials © UKRI 2024
Figure S7: Equivalent to Figure 8 but for SSI-12