



Supplement of

Basin-scale evaluation of the Noah-MP land surface model for runoff and snow generation in the Missouri River Basin: insights and recommendations for parameterization scheme selection

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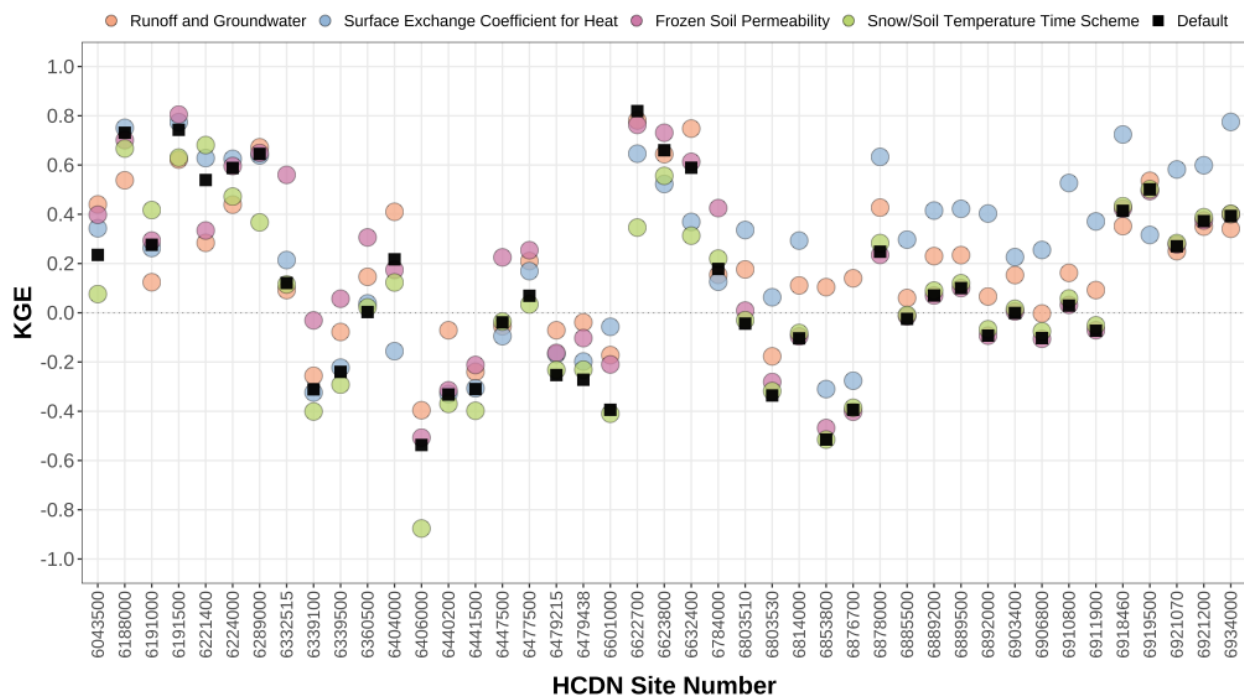


Figure S1. KGE values of the five Noah-MP parameterization schemes (Default, RUN, SFC, INF, and STC) for each of the 50 HCDN subbasins in the Missouri River Basin. The x-axis represents the HCDN site and the y-axis represents the KGE value computed against USGS monthly streamflow for 2014–2023.

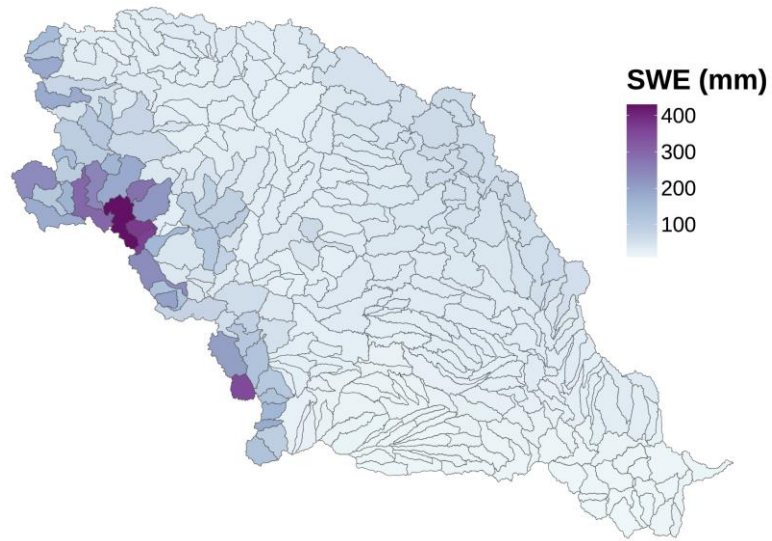


Figure S2. Average of annual maximum SWE for the 2014-2023 period, derived from UA SWE dataset and aggregated over HUC8 basins.

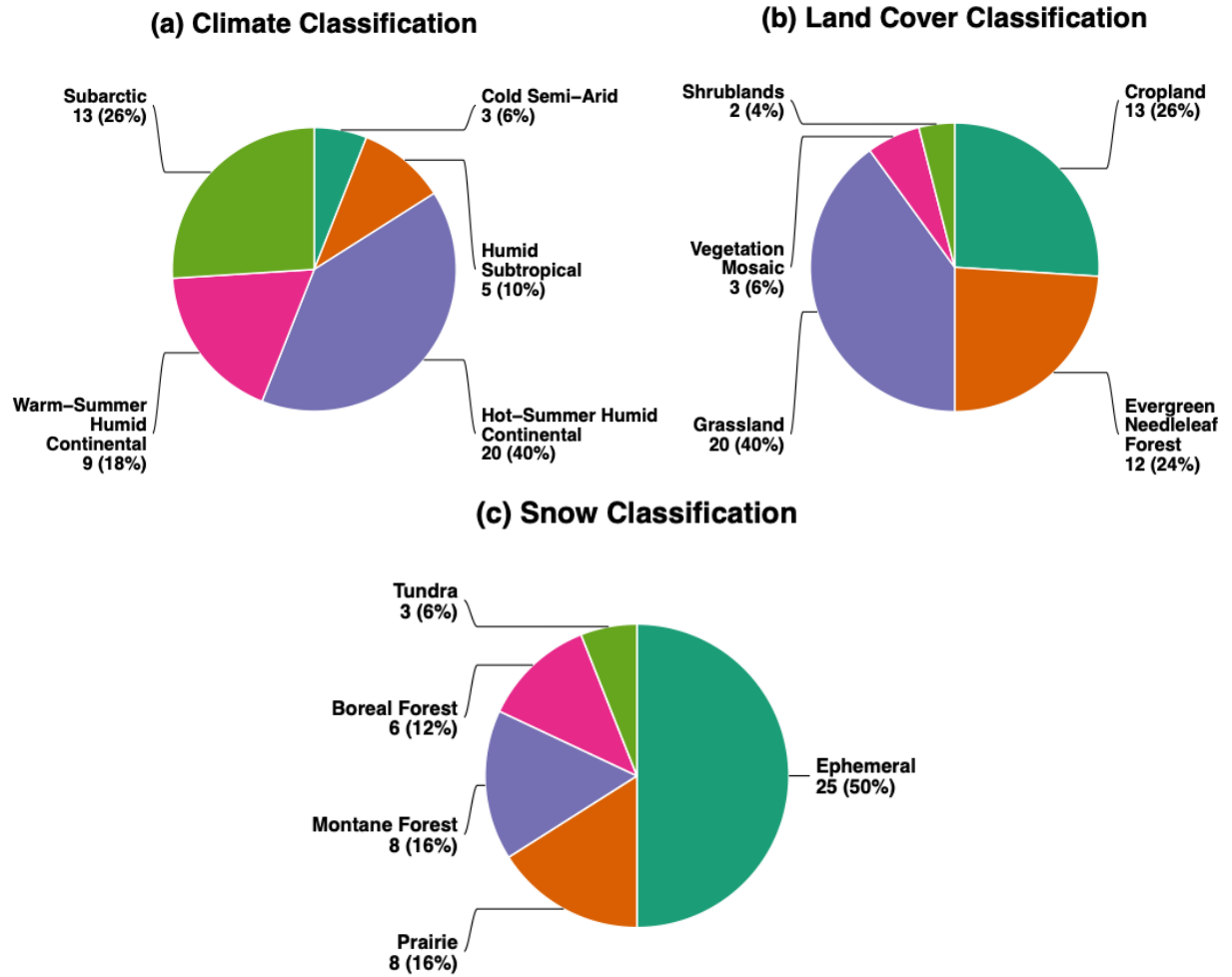


Figure S3. Number and proportion (%) of each classification for (a) climate, (b) land cover, and (c) snow among the 50 HCDN subbasins.