***The Journal of Gemmology* Data Depository**

Supplementary information to accompany the article:
Wang, H.A.O., Krzemnicki, M.S., Wälle, M. and Schultz-Guttler, R.A. 2025. Unsupervised machine learning for the geographic origin determination of Cu-bearing Tourmaline. *Journal of Gemmology*, **39**(8), 772–787, https://doi.org/10.15506/JoG.2025.39.8.772.

Figure DD-1: 2D scatter plots of t-SNE results from the study's multi-element dataset of Cu-bearing tourmalines with various perplexity values. See Box B of the article for an explanation of perplexity.

