**Identifying and ranking stability, topological significance, and redundancies in water resource networks to guide detailed simulation modeling**

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Figure 1. Comparison of data in (a) Cartesian coordinates and (b) Parallel coordinates (Rosenberg, 2012).

Figure 2. ATRAN output for illustrative networks.

Figure 3. Bear River network used for ATRAN case study [adapted from Utah Division of Water Resources (2010)]. Reservoirs with dashed lines are proposed and are not currently part of the physical system.

Figure 4. Parallel coordinate plot for the lower Bear River network.

Figure 5. Location and ranking of the stable (purple ovals) and topological significant (green rectangles) nodes in the Bear River network.