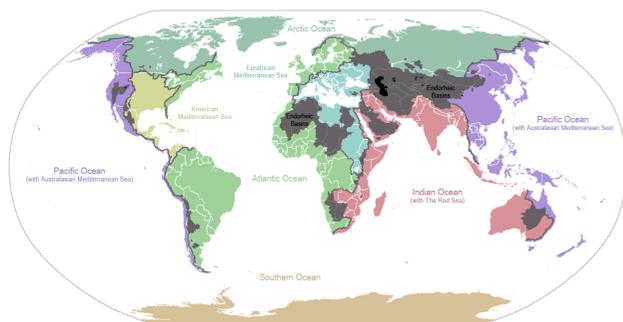


Identifying Major Hydrologic Change Drivers in a Transboundary Highly Managed Endorheic Basin: Integrating Hydro-ecological Models and Time Series Data Mining Techniques

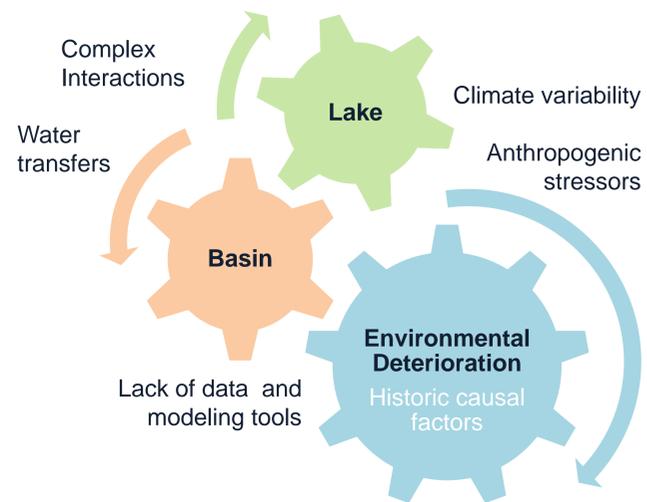
Juan S. Acero Triana, Hoori Ajami
University of California – Riverside

Endorheic Basins

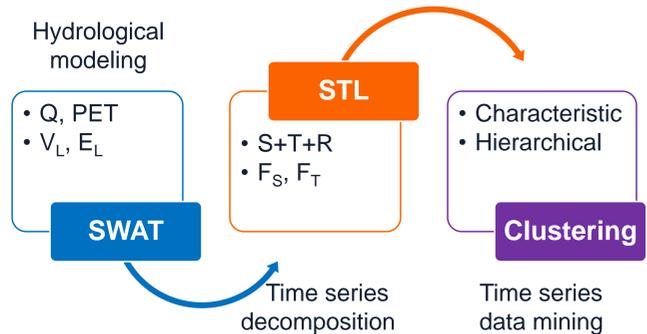


- ~25% of Earth's land surface
- ~50% of water stressed regions
- Among the most threatened systems

Study Motivation



Methodology

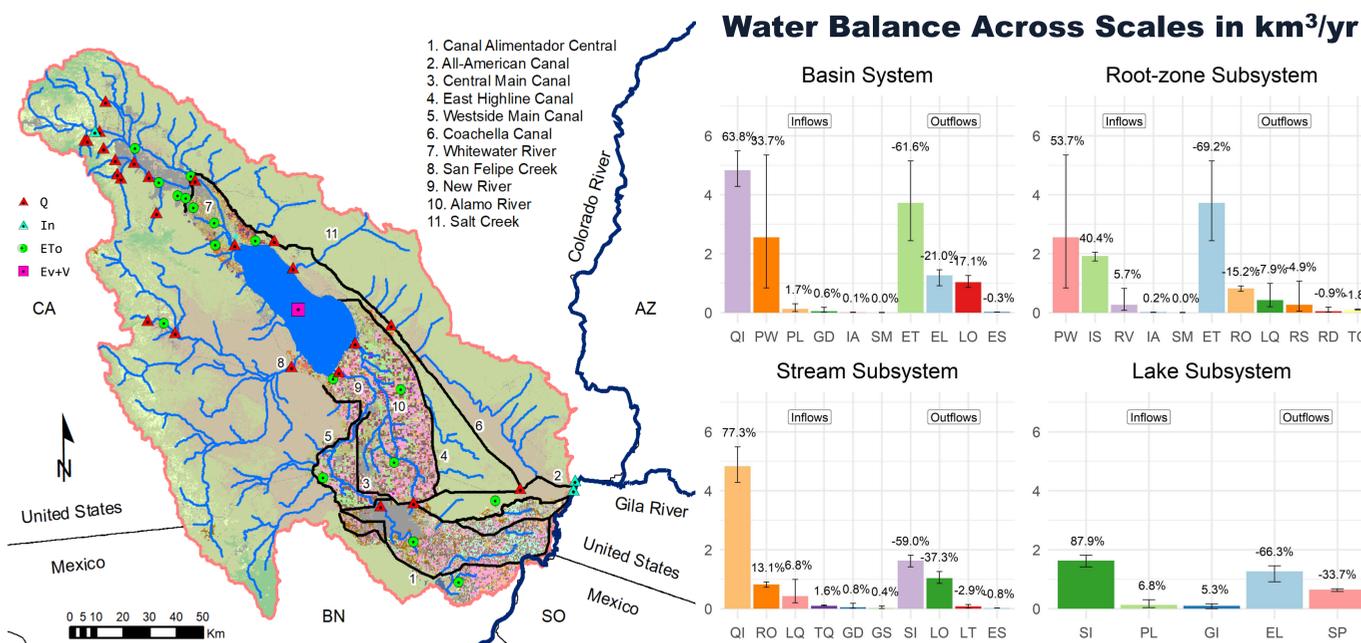


Salton Sea Transboundary Basin

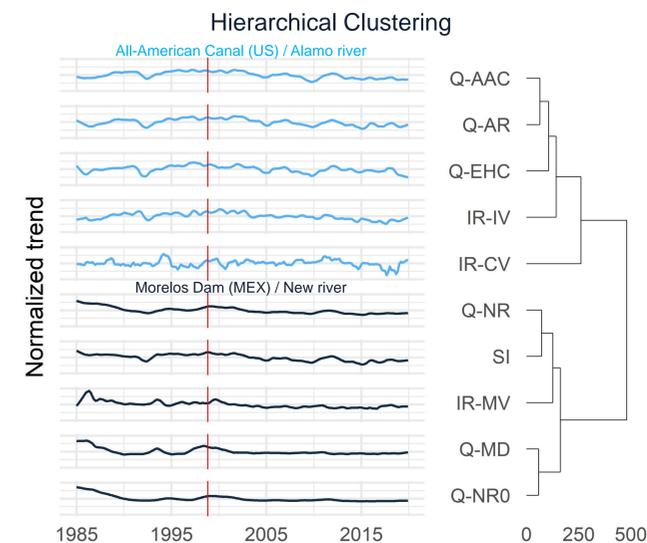
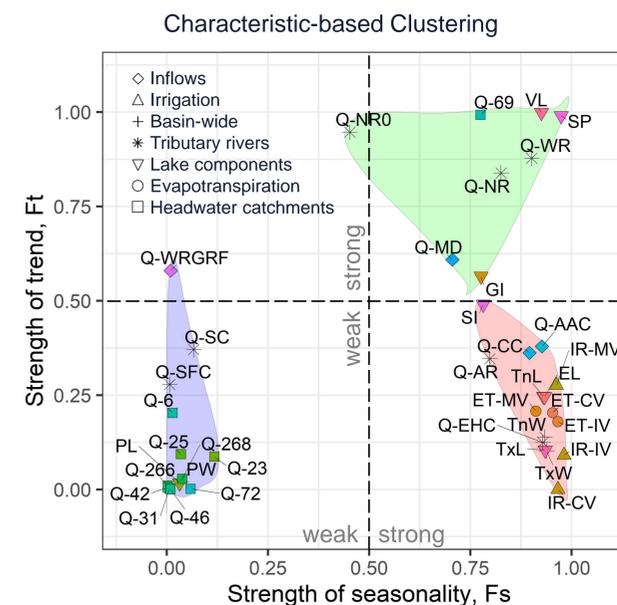
host of California's largest inland lake



Decreases in Colorado River allocation are causing the Salton Sea to shrink, not changes in the irrigation operation as commonly believed



Major Hydrologic Drivers



It is not clear if the Salton Sea shrinkage is being mainly caused by the implementation of the California 4.4 Plan, the decline of Colorado River flows due to global warming, or both. A holistic approach that considers both basins is required.

Acknowledgements



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