

Supporting Information

Analysis of the Characteristics and Driving Forces of Changes in Lake Water Volume in Inland Arid Basins in China

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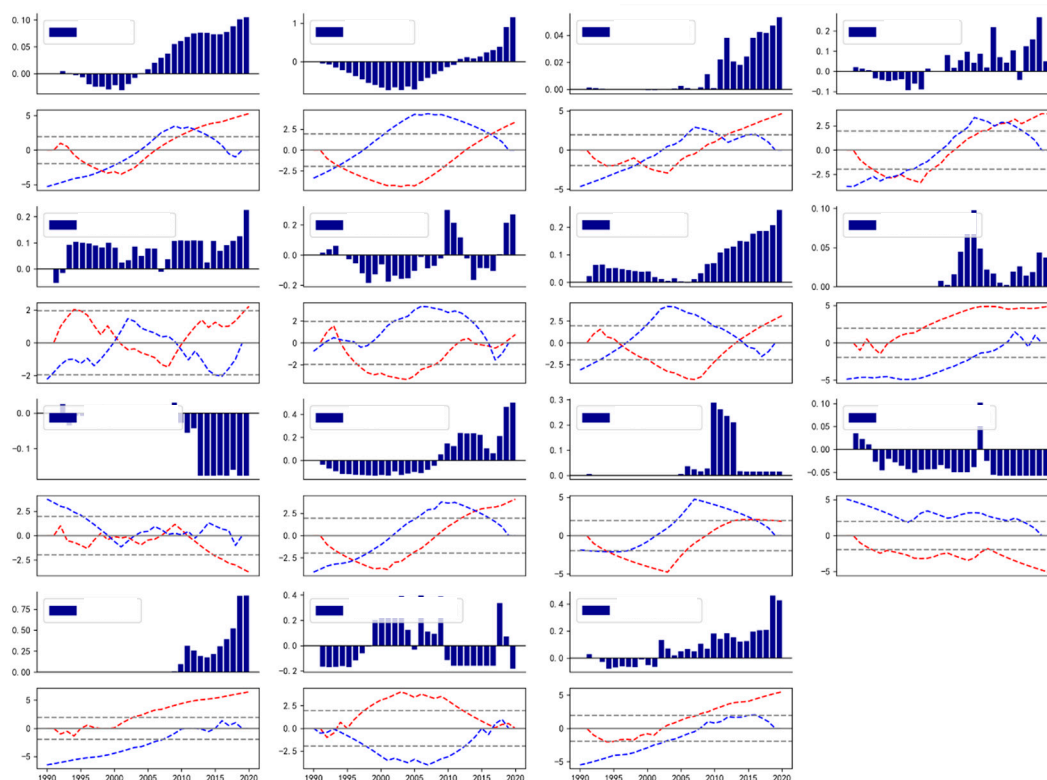


Figure S1. Changes in water storage of major lakes in the Qaidam Basin from 1990 to 2020. The odd-numbered lines show the water volume change, the unit is km^3 . The even-numbered lines show the Mann-Kendall test results.

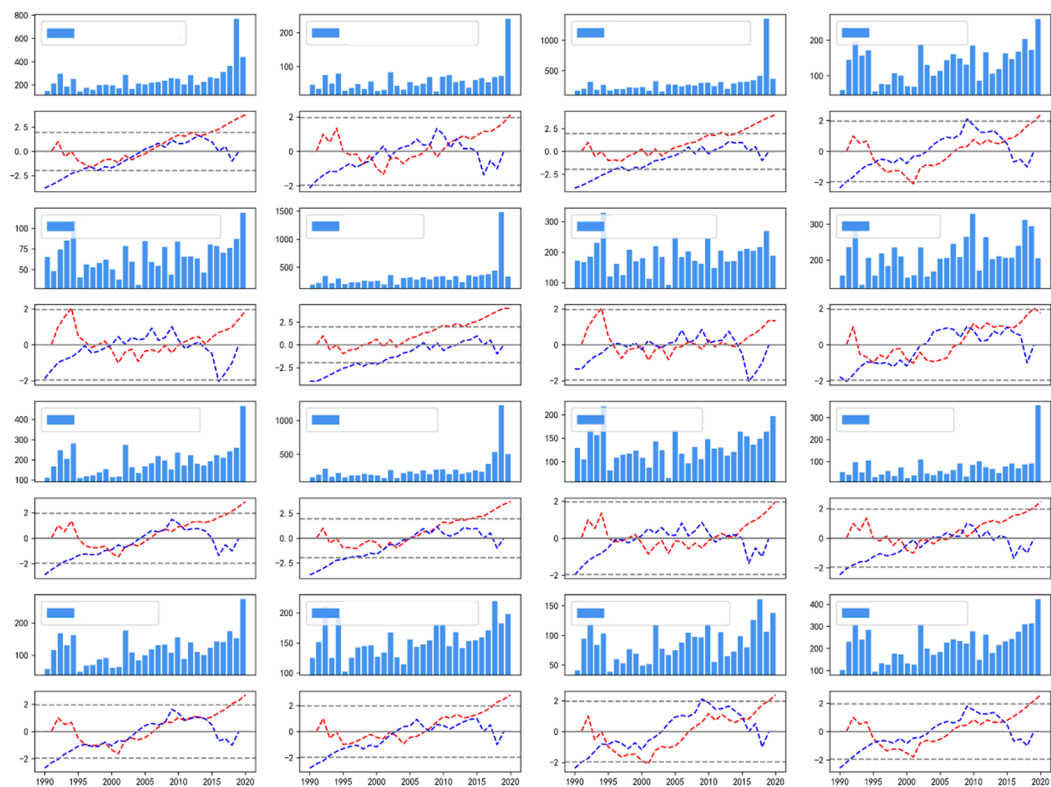


Figure S2. Precipitation for each water resources zones (WRZ) in the Qaidam Basin from 1990 to 2020. Odd-numbered lines show precipitation, the unit is mm. Even-numbered lines show Mann-Kendall test results.

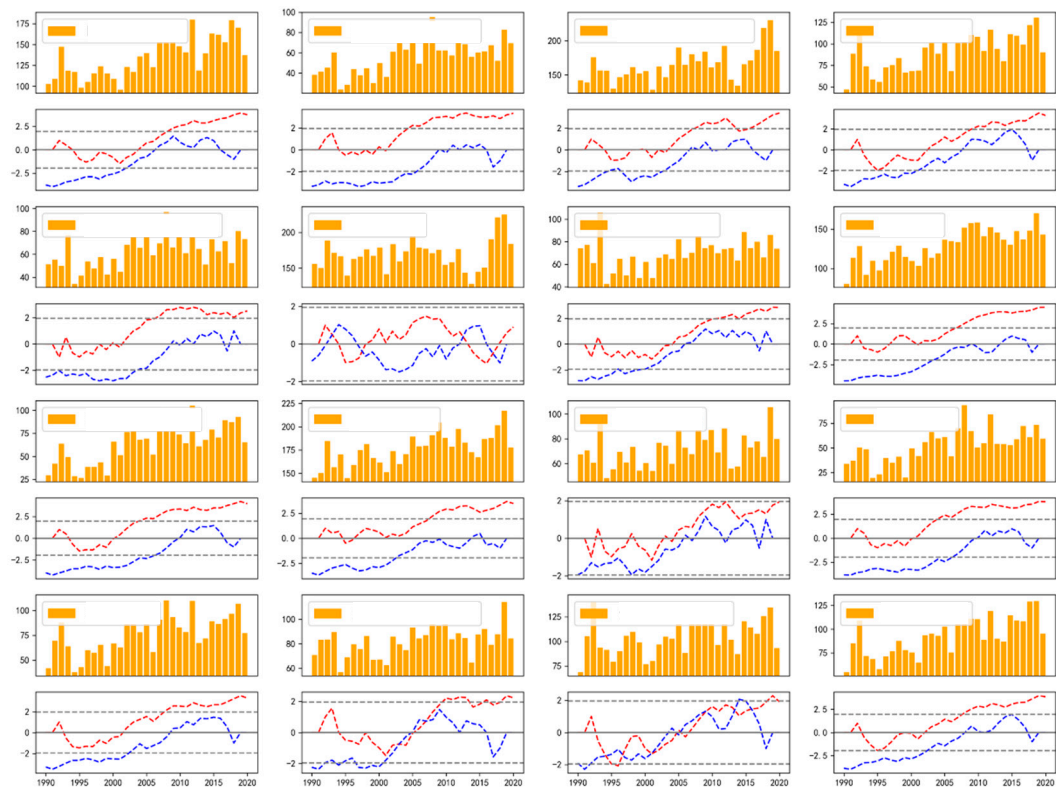


Figure S3. Evaporation for each water resources zones (WRZ) in the Qaidam Basin from 1990 to 2020. Odd-numbered lines show evaporation, the unit is mm. Even-numbered lines show Mann-Kendall test results.

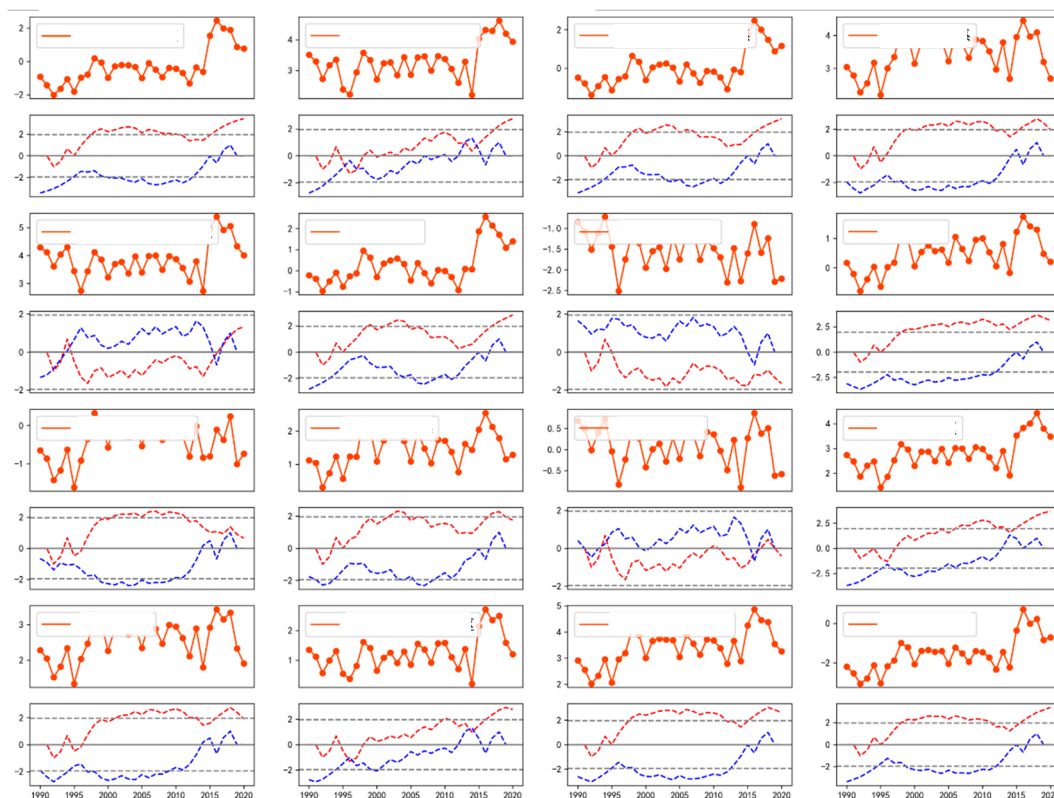


Figure S4. Air temperature for each water resources zones (WRZ) in the Qaidam Basin from 1990 to 2020. Odd-numbered lines show air temperature, the unit is $^{\circ}\text{C}$. Even-numbered lines show Mann-Kendall test results.

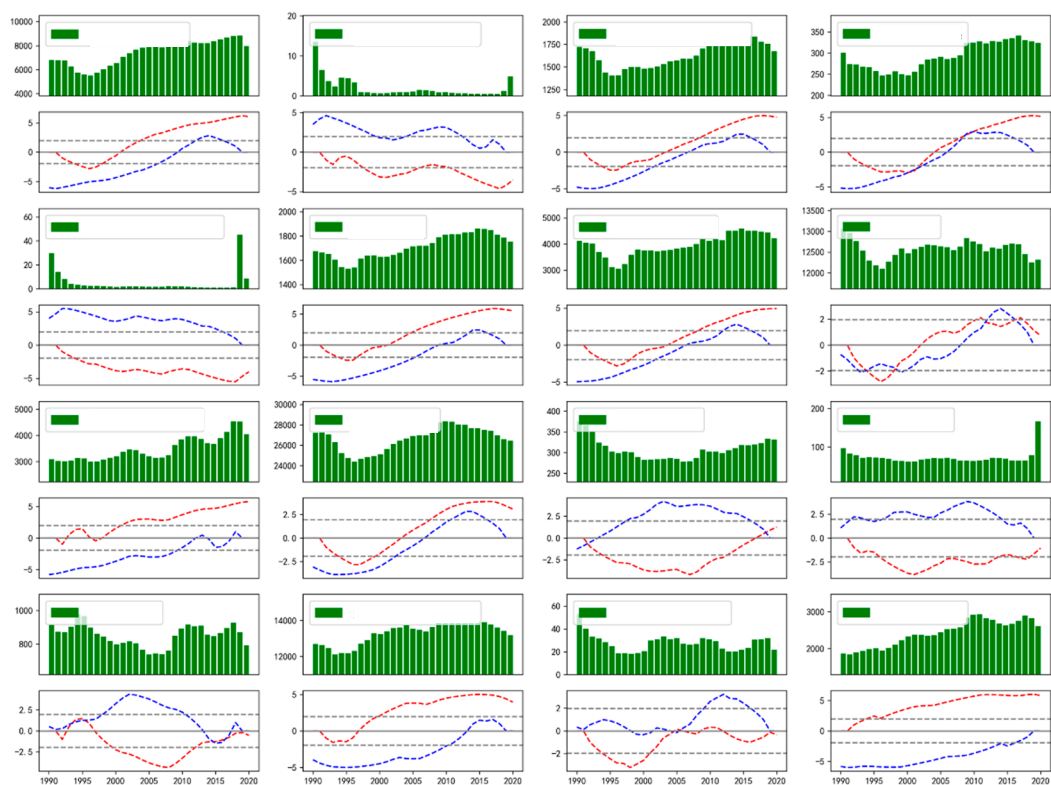


Figure S5. Vegetation area for each water resources zones (WRZ) in the Qaidam Basin from 1990 to 2020. Odd-numbered lines show vegetation area, the unit is km^2 . Even-numbered lines show Mann-Kendall test results.

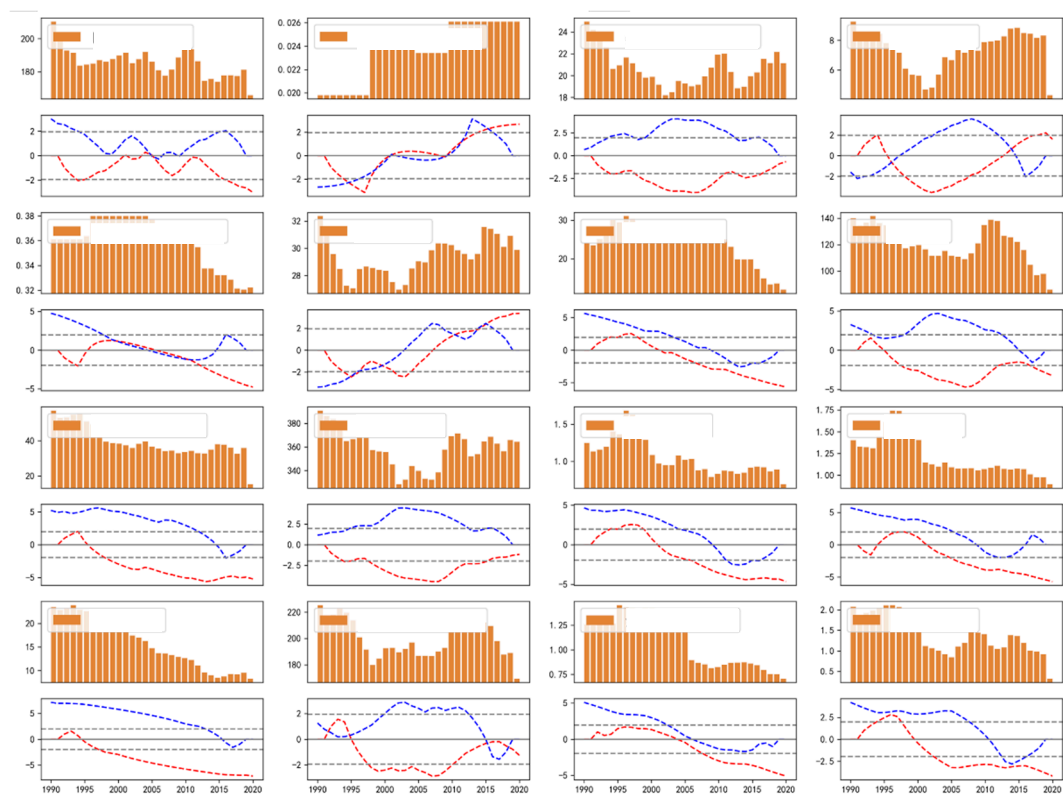
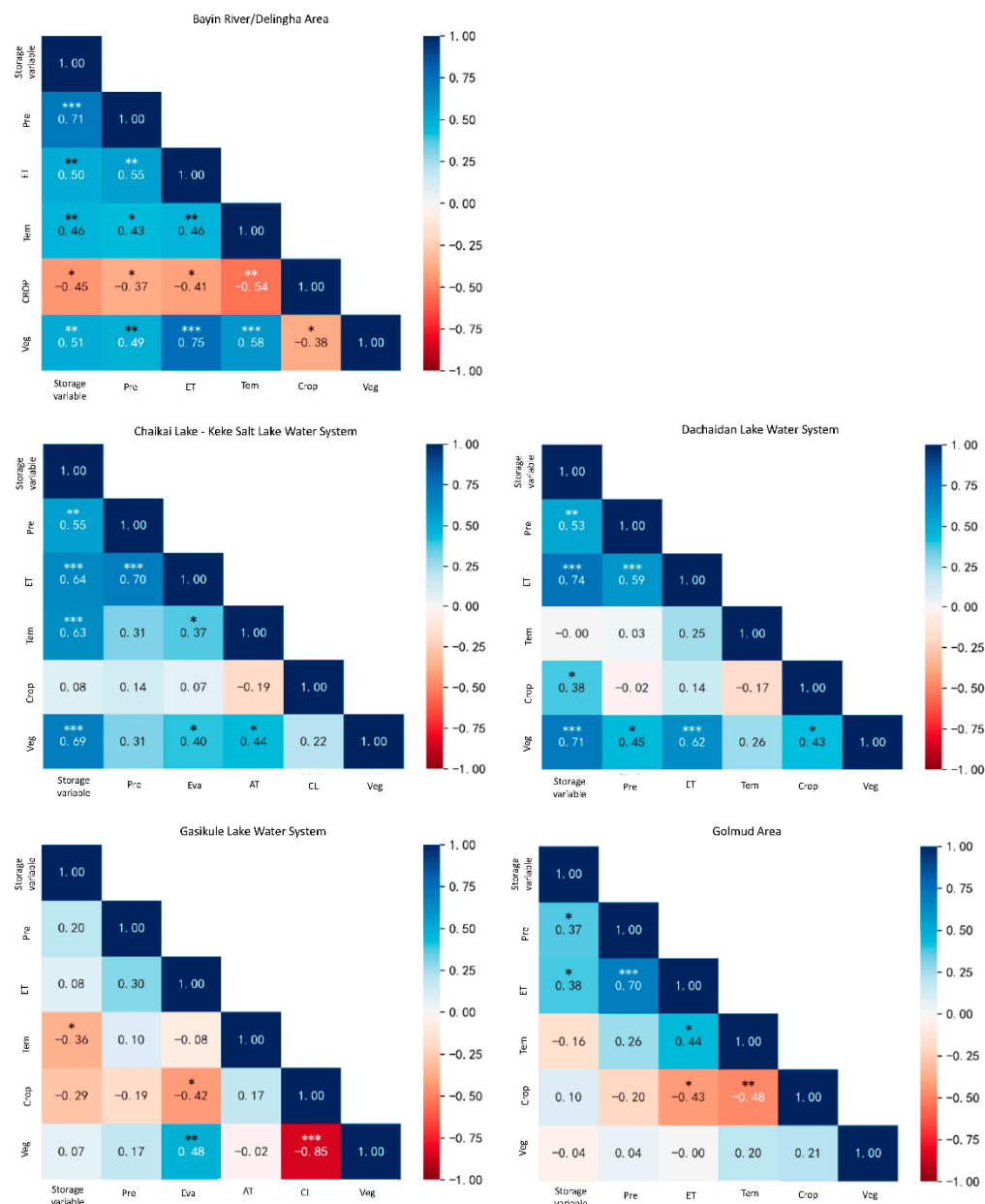


Figure S6. Cropland area for each water resources zones (WRZ) in the Qaidam Basin from 1990 to 2020. Odd-numbered lines show cropland area, the unit is km². Even-numbered lines show Mann-Kendall test results.



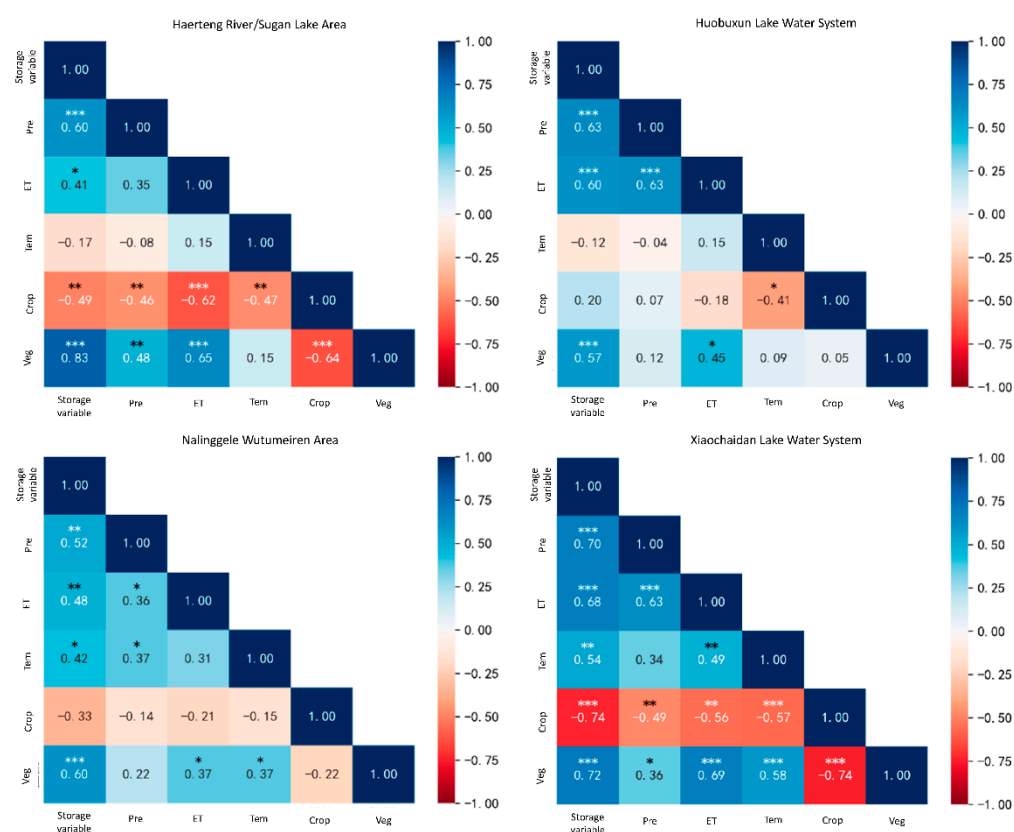


Figure S7. Correlation among Lake Storage, Climate and Land Cover elements in in each WRZ. Pre: precipitation; Eva: evapotranspiration; Tem: air temperature; CL: cropland; Veg: vegetation. * denotes p-value < 0.05, ** denotes p-value < 0.01, *** denotes p-value < 0.001.