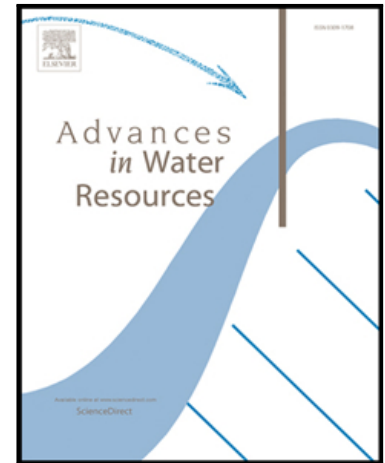


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Determining Water Storage Depletion within Iran by Assimilating GRACE data into the W3RA Hydrological Model

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Highlights

- We assimilate GRACE data to improve a hydrological model estimations over Iran
- Ensemble Square-Root Filter is used for data assimilation
- We estimate sub-surface water storage changes within the country
- Climate and anthropogenic impacts on the water storages are investigated
- Independent in-situ measurements are used to evaluate the results

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