

Groundwater Resources at Continental-Scales

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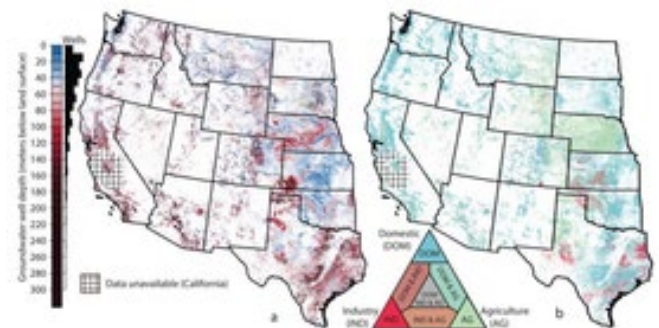
University of California, Santa Barbara, CA

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Zoom: <https://cuboulder.zoom.us/j/95668504496>

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Abstract: Groundwater resources sustain human livelihoods and ecosystem health, but they are under pressure from overuse. Here we report on a continental-scale and locally relevant database of groundwater well construction reports. We analyze these data to (i) evaluate how groundwater users (i.e., humans) are responding to groundwater depletion in numerous areas around the globe, and (ii) to compare water levels in wells to water levels of nearby streams to map out which rivers may be leaking into the subsurface as they flow downstream.



Speaker Bio: Scott Jasechko is an Associate Professor of water resources with the University of California, Santa Barbara's Bren School of Environmental Science & Management. Before joining the University of California, Santa Barbara in November 2017, Scott completed his doctorate at The University of New Mexico and was on the faculty at the University of Calgary for three years. Scott's research uses large datasets to understand how we can preserve the quality and sustain the quantity of river water and groundwater resources around the globe. He has published more than three-dozen articles in journals including Science, Nature, and the Proceedings of the National Academy of Sciences. His work has been recognized by numerous early career awards, including the Horton Hydrology Research Award from the American Geophysical Union (2013), the Young Scientist Award from the Canadian Geophysical Union (2016), the Kohout Early Career Award from the Geological Society of America (2018), and a CAREER Award from the National Science Foundation (2021).

<http://www.jasechko.com/bio.html>