

Curso 2023/24: entregas opcionales: un proyecto de data science

- Niveles de acuíferos en el mundo
- Datos públicos
- Tres o cuatro sesiones dedicadas al análisis de esos datos
- Al inicio de la sesión se plantean los objetivos
- Se trabaja en grupos
- Se colabora con Git.
- Última media hora: cada grupo presenta lo que ha conseguido.


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Rapid groundwater decline and some cases of recovery in aquifers globally

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Abstract

Groundwater resources are vital to ecosystems and livelihoods. Excessive groundwater withdrawals can cause groundwater levels to decline^{1,2,3,4,5,6,7,8,9,10}, resulting in seawater intrusion¹¹, land subsidence^{12,13}, streamflow depletion^{14,15,16} and wells running dry¹⁷. However, the global pace and prevalence of local groundwater declines are poorly constrained, because in situ groundwater levels have not been synthesized at the global scale. Here we analyse in situ groundwater-level trends for 170,000 monitoring wells and 1,693 aquifer systems in countries that encompass approximately 75% of global groundwater withdrawals¹⁸. We show that rapid groundwater-level declines ($>0.5 \text{ m year}^{-1}$) are widespread