

# Use of GIS and R to estimate climate change impacts on groundwater recharge in Portoviejo River watershed, Ecuador

The screenshot shows a web browser window displaying the ScienceDirect article page. The browser's address bar shows the URL: <https://www.sciencedirect.com/science/article/abs/pii/S0895981123000998>. The page header includes the ScienceDirect logo and navigation options like 'Journals & Books', 'Search ScienceDirect', 'Register', and 'Sign in'. A blue banner at the top indicates 'Access through another institution' with a note: 'Amazon Regional University IKIAM does not subscribe to this content on ScienceDirect.' The article title is 'Use of GIS and R to estimate climate change impacts on groundwater recharge in Portoviejo River watershed, Ecuador', published in the 'Journal of South American Earth Sciences', Volume 124, April 2023, 104288. The authors listed are Angel Intriago, Paulo Galvão, and Bruno Conicelli. The abstract begins with: 'Future groundwater recharge estimations are helpful tools for water resources management. However, there is a need for more information about it in many parts of'.