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Hydrochemical and isotopic characterization of the Mampostón-Jaruco basin

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This work presents the results obtained during the hydrochemical and isotopic characterization of the waters of the Mampostón - Jaruco basin in the province of Mayabeque, Cuba. Two sampling campaigns were carried out in different wells drilled in the area, carrying out the collection of hydrochemical data in the field, the analysis of macrocomponents and physico-chemical parameters in the laboratory, isotopic analysis (^2H and ^{18}O) and the evaluation of the quality of the analytical data. The interpretation of the results showed that the waters are generally classified as calcium bicarbonate with very similar characteristics between them, suggesting a single origin (recharge). Possible recharge mechanisms involving surface sources in the region were identified.

Authors: HERNÁNDEZ TORRES, Débora (Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear (CEADEN)); MONTERO ÁLVAREZ, Alfredo (Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear (CEADEN)); ESTÉVEZ ÁLVAREZ, Juan R. (Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear (CEADEN)); ALBERRO MACÍAS, Nancy (Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear (CEADEN)); LÓPEZ SÁNCHEZ, Diana (Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear (CEADEN)); MORA LÓPEZ, Leonor (Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear (CEADEN)); FRÍAS FONSECA, Daniel (Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear (CEADEN)); RAMÍREZ, Jorge L. (Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear (CEADEN)); VALCÁRCEL ROJAS, Lino (Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear (CEADEN)); LEYVA BOMBUSE, Dennys (Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear (CEADEN)); RODRÍGUEZ LUGO, Dulce M. (Empresa de Aprovechamiento Hidráulico de Mayabeque (EAHM), INRH.); GARCÍA, Humberto (Empresa de Aprovechamiento Hidráulico de Mayabeque (EAHM), INRH.)

Presenter: HERNÁNDEZ TORRES, Débora (Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear (CEADEN))

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