



Contribution ID: 219

Type: **Parallel Talk**

Hydrochemical and isotopic characterization of the Mampostón-Jaruco basin

Thursday, 26 October 2017 14:20 (25 minutes)

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.

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Session Classification: Parallel Sessions - NAT

Track Classification: Nuclear Analytical Techniques and Applications in Art, Archeology, Environment, Energy, Space and Security