

Feasibility assessment for geothermal potential in Las Trincheras - Mariara, Venezuela

Thursday, 27 June 2019 11:30 (15 minutes)

The purpose of this research is to investigate the potentiality for a geothermal system that could be in place in the locality of Las Trincheras-Mariara, Carabobo State, Venezuela. In the context of, CTBT and the Sustainable Development Goal. The area is characterized by the presence of hot springs and extensive low-intensity seismicity. The main events magnitudes are 4.7 and 4.9, respectively. In addition, understanding of the high swarm seismicity observed in the area in the year 2018, would derived on a better-constrained localization of the seismic events with the implementation of a more robust localization technique that will involve simultaneous multiple event locations with traditional focal mechanism analysis; Moreover, with our results we should impact on another important area of social interest such as the Seismic Microzonation studies for the cities of Valencia and Maracay. Therefore, this project involves the incorporation of PTS temporal local seismic stations to densify the stations in the area and the update of geological and geophysical information in order to accomplish a better scientific understanding of the given geothermal process.

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Session Classification: T5.2 Experience with and Possible Additional Contributions to Issues of Global Concern such as Disaster Risk Mitigation, Climate Change Studies and Sustainable Development Goals

Track Classification: Theme 5. CTBT in a Global Context