

PREDICTING CARIBBEAN ARCHAEOLOGICAL SENSITIVITY OF PUERTO RICO USING GIS

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The knowledge of Puerto Rican archaeological heritage has increased in different perspectives and approaches because of influences of several archaeological theories. The Puerto Rican archaeology scientific transformation applying geographic information systems (GIS) has been conducted but not with the full potential. This project used statistical and spatial analysis to study the archaeological site patterns in Puerto Rico. Using a logistic regression model (LRM), the project developed a predictive model for archaeological sensitivity in Puerto Rico. The predictive model describes high, medium, and low likelihood areas where archaeological sites could be found. Tools and techniques such as Model Builder, remote sensing analysis, and different sampling methods were implemented to accomplish the goal of this project.