

Plinius Conference Abstracts

Vol. 18, Plinius18-86, 2024, updated on 13 Dec 2024

<https://doi.org/10.5194/egusphere-plinius18-86>

18th Plinius Conference on Mediterranean Risks

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Assessing the risks of climate change for cultural heritage

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This paper presents a comprehensive methodology for assessing the vulnerability of cultural heritage sites in Greece to climate change. By proposing a multi-criteria system that evaluates exposure, sensitivity, and adaptive capacity, the study aims to safeguard Greece's cultural capital and ensure the sustainability of its tourism industry. Utilizing climate model projections, the research identifies potential risks such as heatwaves, floods, droughts, fires, and sea level rise for selected UNESCO archaeological sites and assesses their vulnerability. The study leads to differentiated adaptation plans for every archaeological site based on the climate projections regarding the impacts of climate change and the specific characteristics of each site.