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## Analysing extreme flood events in the Mediterranean region

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Understanding and managing the risks associated with extreme hydro-geological events, such as floods, is crucial for the Mediterranean region. This study presents a comprehensive methodology for analysing and integrating sparse data on extreme flood events to enhance future flood risk assessments. By reconstructing historical flood events using limited data sources such as rainfall records, flood marks, visual documentation, and eyewitness testimonies, we aim to develop a robust framework for understanding hydrological responses to extreme weather conditions. By leveraging historical data and advanced modelling techniques, this research contributes to the improved assessment and prediction of hydro-geological risks, ultimately aiding in the development of more resilient infrastructures and communities in the Mediterranean region.