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Uncertainty assessment in historical precipitation time series

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Precipitation is the most important and well studied hydro-meteorological variable and its characteristics and variability have challenged various scientific fields like water resources management and climate change. As a hydrological model input, precipitation is a space and time dependent variable with an uncertainty introduced due to instrument or measurement errors. This paper presents an uncertainty assessment of precipitation time series using the Data Uncertainty Engine (DUE), a tool developed within the framework of the EC-funded project HarmoniRiB (Harmonised Techniques and Representative River Basin Data for Assessment and Use of Uncertainty Information in Integrated Water Management). The precipitation series are from the Geropotamou Watershed, Crete, Greece. The results of this study will help identify the uncertainty in the precipitation measurements and will provide decision makers with more reliable information from both raw data and models.