Geoarchaeology of Ancient Avlida (Boeotia, Central Greece): a long-term connectivity between human occupation and landscape changes

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This paper aims to study the relationships between the human occupation of Ancient Avlida and the landscape configuration for the last thousands years around the site. The geoarchaeological study presented here focus first on the careful scrutiny of the literary sources from Ancient authors such as Strabo and Pausanias who both mention the presence of archaeological remains. The site has been well known for the presence of the Artemis temple and is considered as the starting point of the Achaean ships during the Trojan war. More recently, archaeological researches have been conducted during the 1950’s and the 1960’s and excavations have been undertaken. However, the landscape configuration was not investigated during archaeological surveys and this paper aims to reconstruct the palaeoenvironmental evolution of the ancient bay, gradually silted up along the recent Holocene to create the modern actual lowlands. Two cores, down to a maximum depth of 4.40m and accurately levelled, were studied together for mollusc and microfauna (ostracods and forams) identifications, laser grain size analyses and magnetic susceptibility measurements in order to reveal the facies evolution of the area. In addition, 6 radiocarbon dating (A.M.S. method) helped to obtain a chronostratigraphy sequence. Finally, our results show that the area was an open marine bay from circa 5000 cal. B.C. to the beginning Byzantine period (5th to 6th century A.D.) and during the Trojan war, this site could have hosted eventual military boats in a calm marine environment of deposition.