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Holocene climate, lake-level and sea-level changes at the Atlantic fringe of Europe: multi-proxy evidence from calcareous sediments of An Loch Mó

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The relatively deep lake, An Loch Mór, on Inis Oírr, Aran Islands, off Galway Bay, yielded thick, partially varved calcareous sediments that have been investigated in considerable detail using a multidisciplinary approach within the context of the TIMECHS project (*Timing and mechanisms of Holocene climate change in NW Europe*). Selected aspects of the research have already been published or are in press. In this presentation these, and other aspects, will be reviewed. The emphasis will be on the multi-disciplinary approach to establishing a chronology and a critical evaluation of the multi-proxy evidence including pollen, macrofossils (plants and ostracods) and stable isotopes, for Holocene changes in climate, and lake and sea levels at this Atlantic coastal site.