



## **The Irish glaciated margin: processes and environments of deglaciation.**

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High resolution bathymetric data for Donegal Bay and parts of the western Irish Continental Shelf have become available in recent years due to the Irish National Seabed Survey [INSS] (2000-2009). Relative to onshore glacial landform preservation and visibility on the shelf and on the floor of Donegal Bay is excellent. Here we describe some of the data, paying particular attention to the area close to the north Mayo coastline. We discuss inferred connections between well exposed and age constrained glacial geology along the coastal fringe and the submarine evidence of deglacial processes and timing. It is argued that the sediment and landform assemblage within the Bay is derived from multiple, lobate extensions of the last British Irish Ice Sheet into the Donegal Bay topographic low from source areas to the southeast (north Mayo) and east/northeast (Sligo and Donegal/Fermanagh) during overall deglaciation (Termination 1).