

Cullen Fellow: Ocean Climate (PhD award)

Outline of Research

This student will collate and analyse long-term oceanographic data sets from a variety of sources (e.g. 3rd level and state agencies, Malin Head Station, Vessel based records) to build a coherent picture of changes in oceanographic conditions around the Irish coast over the last 5 decades. This fellow will build up a comprehensive picture of changes in oceanic conditions around the Irish coast as a baseline for environmental and fisheries scientists engaged in climate and process studies. In particular, the fellow is expected to elucidate changes in coastal currents, shelf edge current dynamics, gyres and retention structures and water column structure (including stratification).

Specific Requirements

The fellow should have a background in mathematics, physics, oceanography or earth science with a strong numerate capability. Some programming and scripting experience would be advantageous in this fellowship as both model data and observations will form the basis for the analysis.