



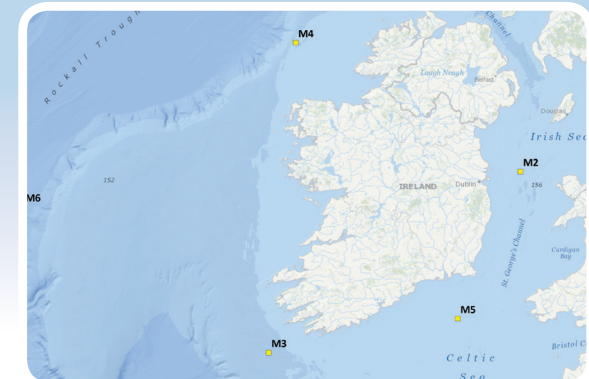
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*Foras na Mara*  
*Marine Institute*

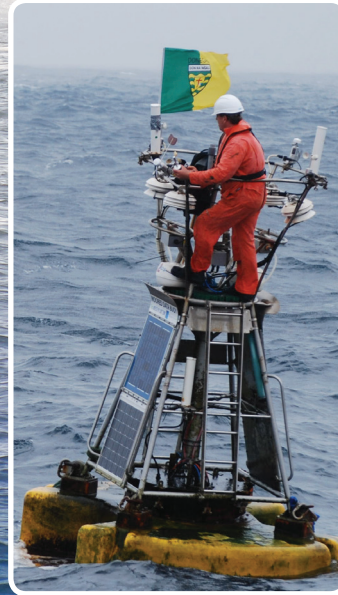
*Buoy oh Buoy*

# OUR CHANGING CLIMATE



## Did you know?

In 2017 the M6 weather buoy recorded the highest value in Irish waters at a significant wave height of 17.2m / 56.4ft. Further out, a UK Met Weather buoy K5 recorded the highest ever wave measured in the North Atlantic at 19m / 62.3ft in 2013.



The warm waters of the Atlantic Gulf Stream help to regulate Ireland's climate. With the ocean and climate inextricably linked, there is an increased demand for enhanced knowledge and services that allow us to observe the changes in the ocean environment.

The Marine Institute works with national and international partners building on efforts to observe and better understand our ocean and forecast climate change. This includes managing a network of five Weather Buoys, called the Irish Marine Data Buoy Observation Network, in collaboration with Met Éireann and the UK Met Office.

The weather buoys are located around the coast of Ireland and the network provides vital information used by oceanographers. This involves gathering data on atmospheric pressure, air and sea temperature, wind speed and direction.

The information gathered by the data buoys also helps to validate the weather forecasting models run by Met Éireann. This provides guidance to the national emergency planning efforts during extreme weather events including risk management for shipping, the fishing community and coastal towns and villages with advanced weather warnings.

