



*Supporting & Collaborating
with Government*

**Natural Capital
(NC) 2 Vision:**
“We have coastal
communities,
habitats, landforms
and infrastructure that
are resilient to
impacts of climate
change”

Ulster University’s Contribution to Marine Protected Area Management and Monitoring (MarPAMM)

Action Ownership and Lead Organisation

Agri-Food & Biosciences Institute
(AFBI)

Information provided by:

**Professor Derek Jackson, Ulster
University**

Other Organisations:

Marine Scotland Science (MSS), the
Marine Institute (MI), Scottish Natural
Heritage (SNH), BirdWatch Ireland (BWI),
the Scottish Association for Marine
Science (SAMS), and University College
Cork (UCC)

Marine Protected Area Management and Monitoring (MarPAMM)

Professor Derek Jackson is leading
the coastal processes work
package as part of a project to
develop cross-border (Scotland,
Ireland, and NI) capacity for the
monitoring and management of
marine protected areas and
species, a coastal processes
model will be developed for
County Down and Co. Louth.
These will guide the development
of management plans for marine
protected areas, including Sound
of Barra (Co. Down) and (Co.
Down).

The research project will examine
scenarios and modelling of future
shoreline behaviour in the context
of projected climate and sea level
changes in NI. This work will help
indicate future extents of coastal
flooding and erosion potential. To
examine a series of flood potential
scenarios using storm (and surge)
modelling of processes to elevate
water levels over the current
coastal hinterland. Longer-term
(IPCC) predictions of sea level rise
will also be modelled.