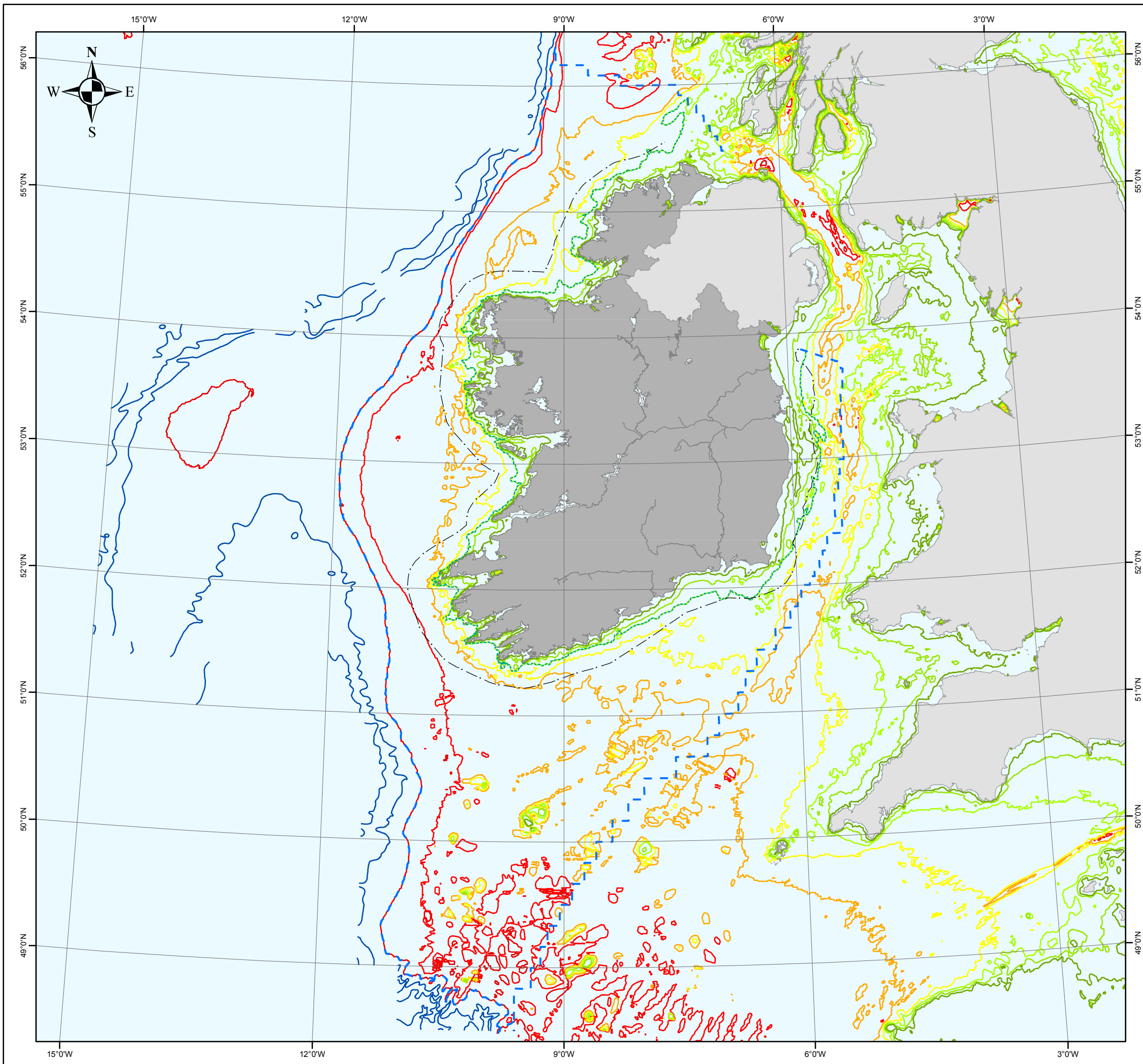


Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

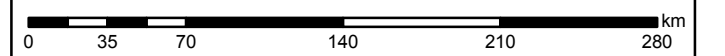
Figure 9.2.1: Bathymetry



Legend

Background	Bathymetry (m)
Ireland	20
United Kingdom	40
Study Area	60
12nm Limit	80
60m Contour	100
	150
	200
	1000

Note 1: Not to be used for navigation



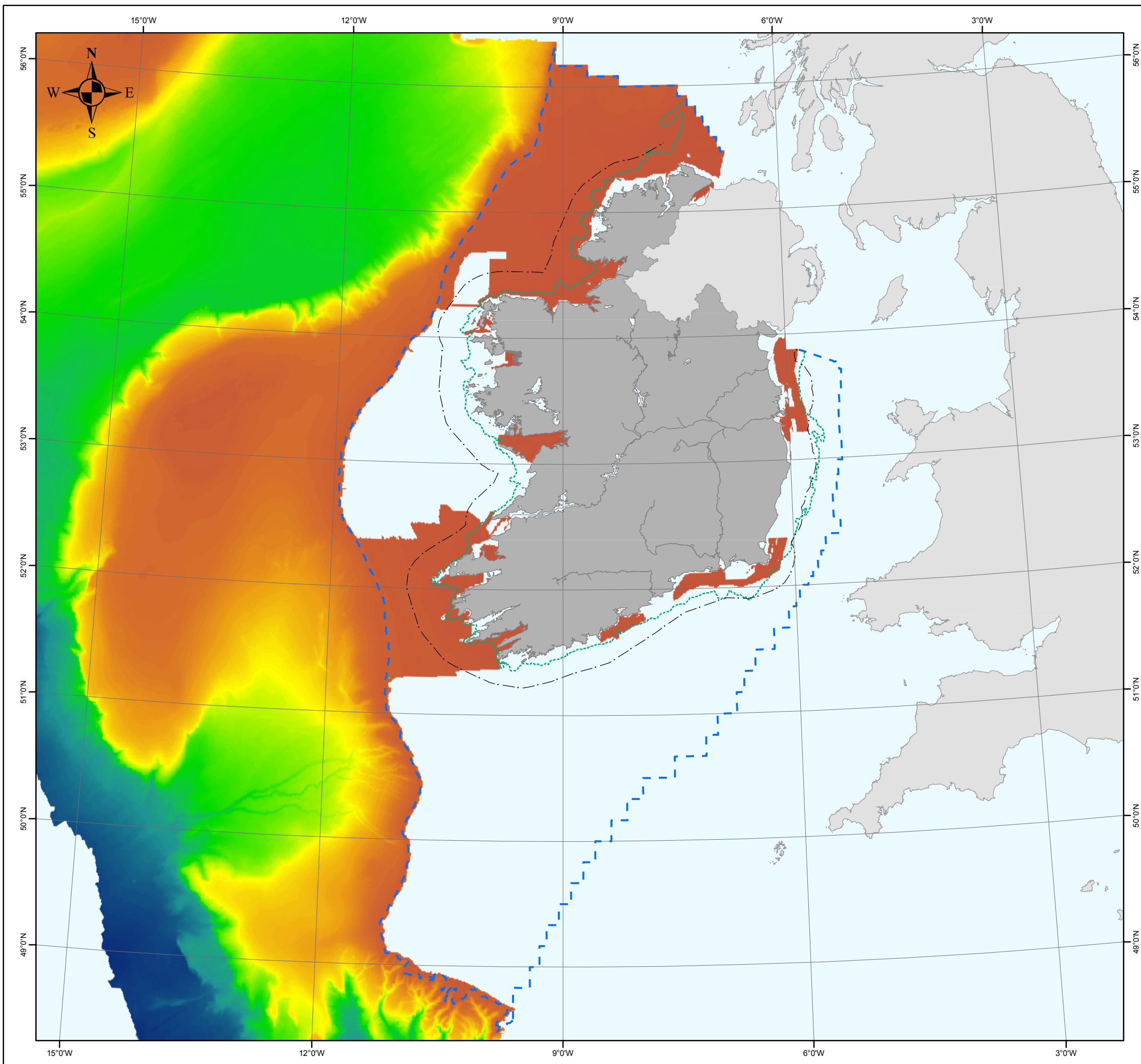
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File Reference	J:\P1304\Mxd\Final Figures\mxd 9.2.1 Bathymetry	
Checked	Produced By	Harshal Galgale
	Reviewed By	Sally Holroyd

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ENERGY AUTHORITY
OF IRELAND

AECOM

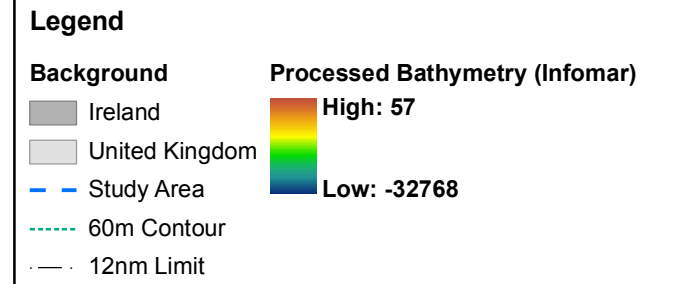
METOC

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Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

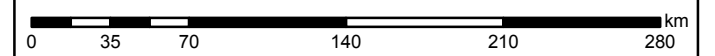
Figure 9.2.1a: INFOMAR Data Coverage



Note 1: INFOMAR processed data coverage, white areas in bathymetry indicating the data is not processed completely.

Note 2: INFOMAR coverage at end 2009

Note 3: Not to be used for navigation

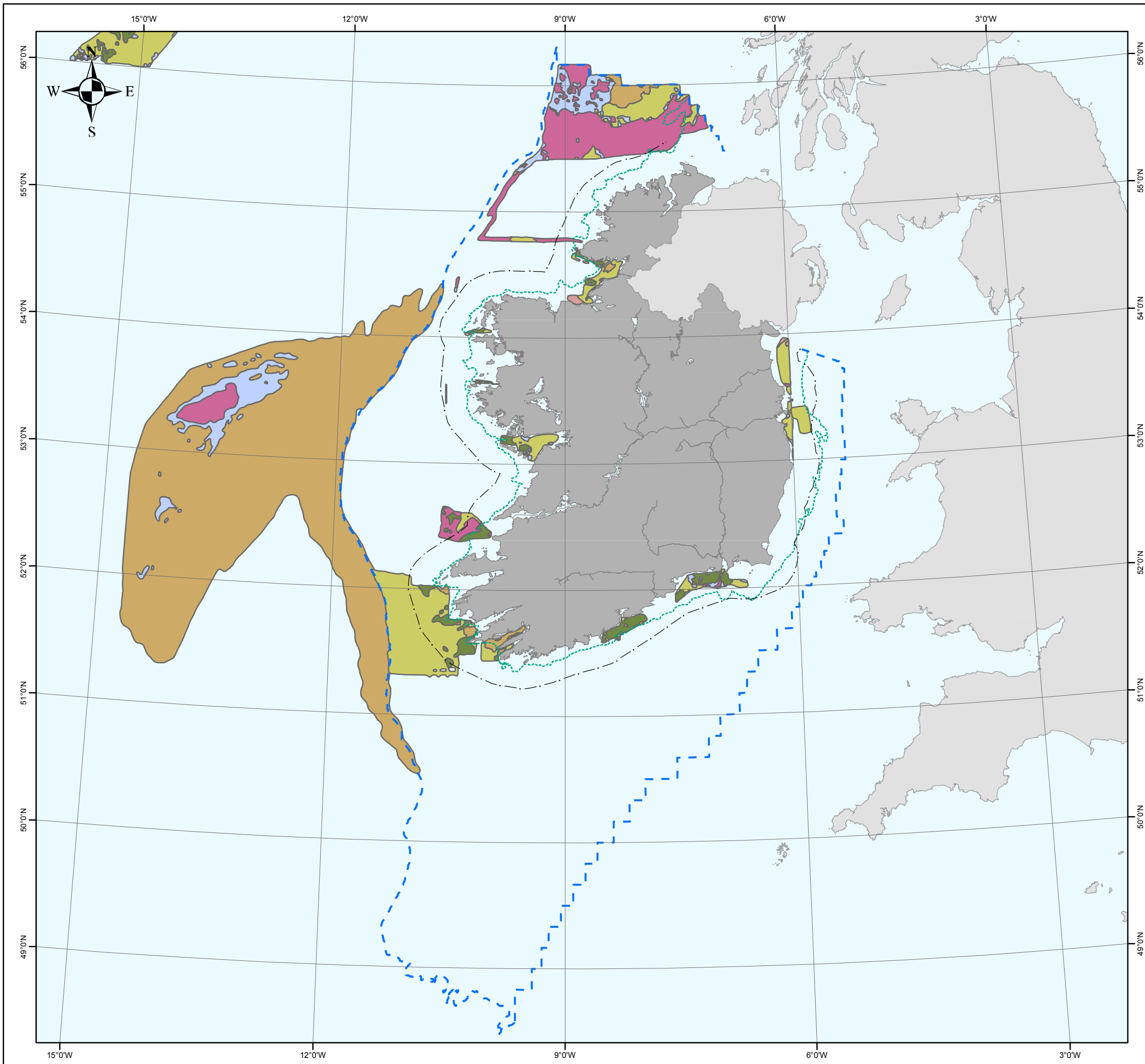


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Data Source	INFOMAR, ESRI, Petroleum Affairs Division, GEBCO	
File Reference	J:\P1304\Mxd\Final Figures\mxd 9.2.1a INFOMAR Data Coverage	
Checked	Produced By	Harshal Galgale
	Reviewed By	Sally Holroyd



Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.2.1b: Seabed Sediments



Legend

Background

- Ireland
- United Kingdom
- Study Area
- 12nm Limit
- 60m Contour

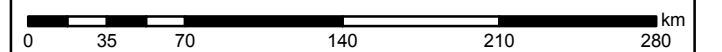
Seabed sediments (BGS)

- Mussel deposit
- Gravelly muddy sand
- Gravel, mud and silt
- Gravel
- Gravelly mud
- Gravelly sand
- Muddy gravel
- Muddy sandy gravel
- Mud
- Muddy sand
- Sandy gravel
- Sandy mud
- Slightly gravelly muddy sand
- Slightly gravelly mud
- Slightly gravelly sand
- Slightly gravelly sandy mud
- Sand
- Diamicton
- Rock or Diamicton
- Rock and sediment
- Undifferentiated solid rock
- Clay and sand

Seabed sediments (INFOMAR)

- Mud and sandy mud
- Sand and muddy sand
- Coarse sediment
- Mixed sediment
- Till
- Bedrock

Note 1: Not to be used for navigation

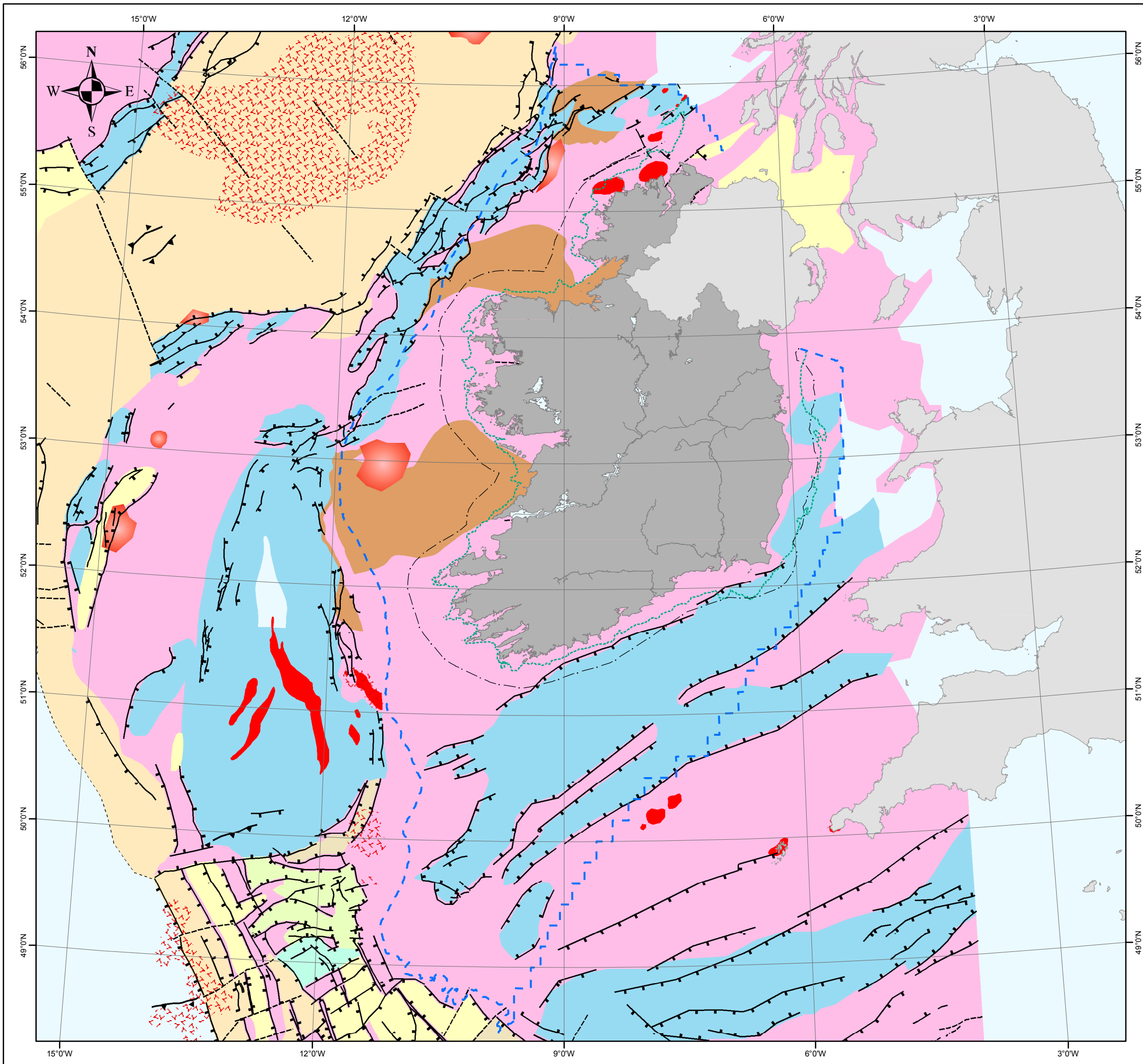


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Data Source	British Geological Society, INFOMAR, Petroleum Affairs Division, GEBCO	
File Reference	J:\P1304\Mxd\Final Figures\9.1.2b Seabed Sediments.mxd	
Checked	Produced By	Harshal Galgale
	Reviewed By	Sally Holroyd



Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.2.1c: Offshore Geology






Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters






Figure 9.2.3: Bathing Beaches

Legend

Bathing Water Quality

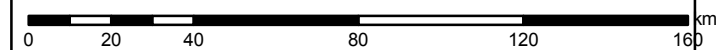
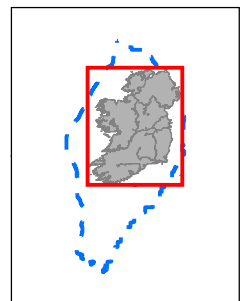
-  Guidance Compliant
-  Mandatory Compliant
-  Non-Compliant

Background

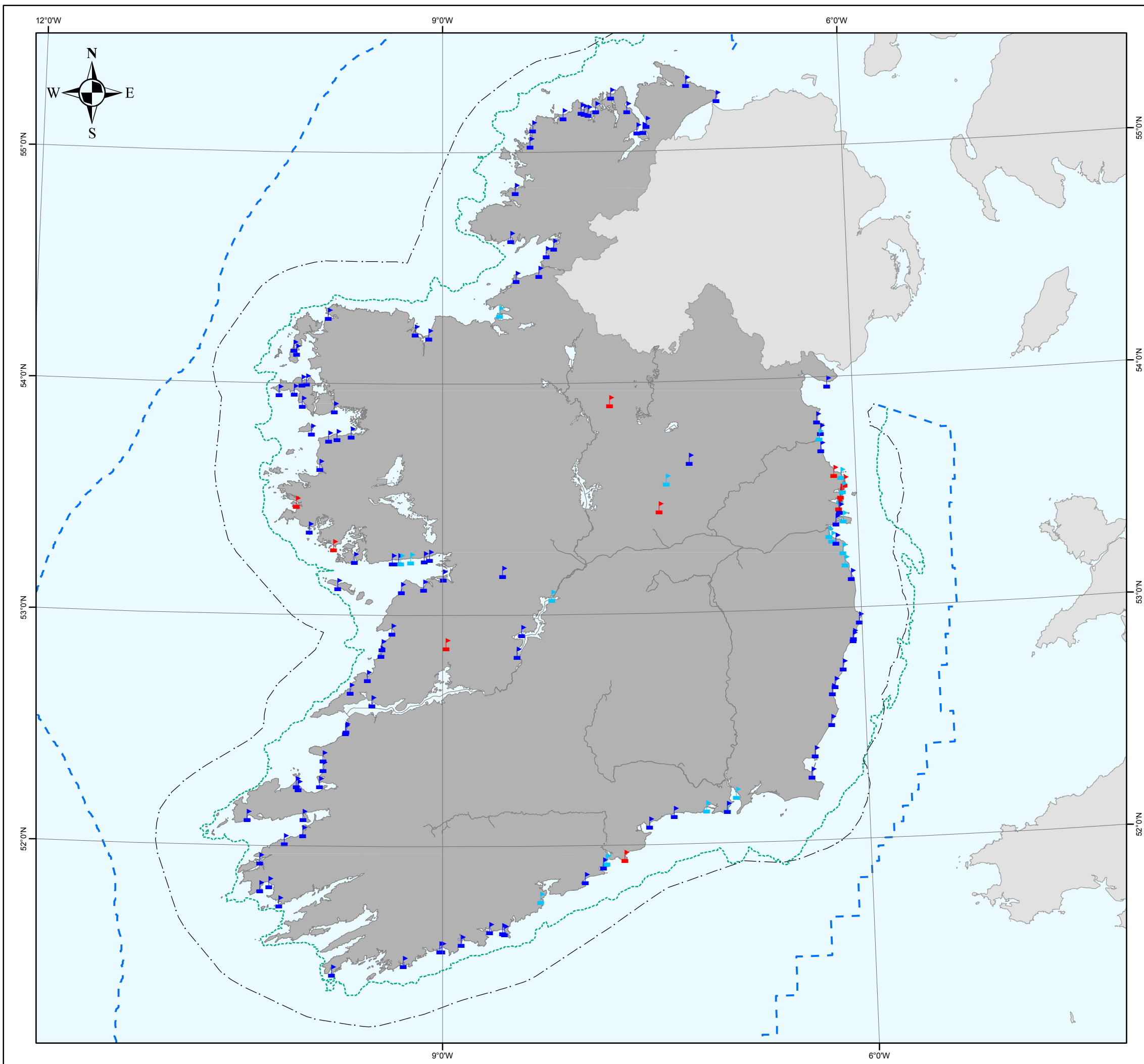
-  Ireland
-  United Kingdom
-  Study Area
-  12nm Limit
-  60m Contour

Note 1: Full study area not shown. There is no data relevant to this figure outside of the map extent

Note 2: Not to be used for navigation

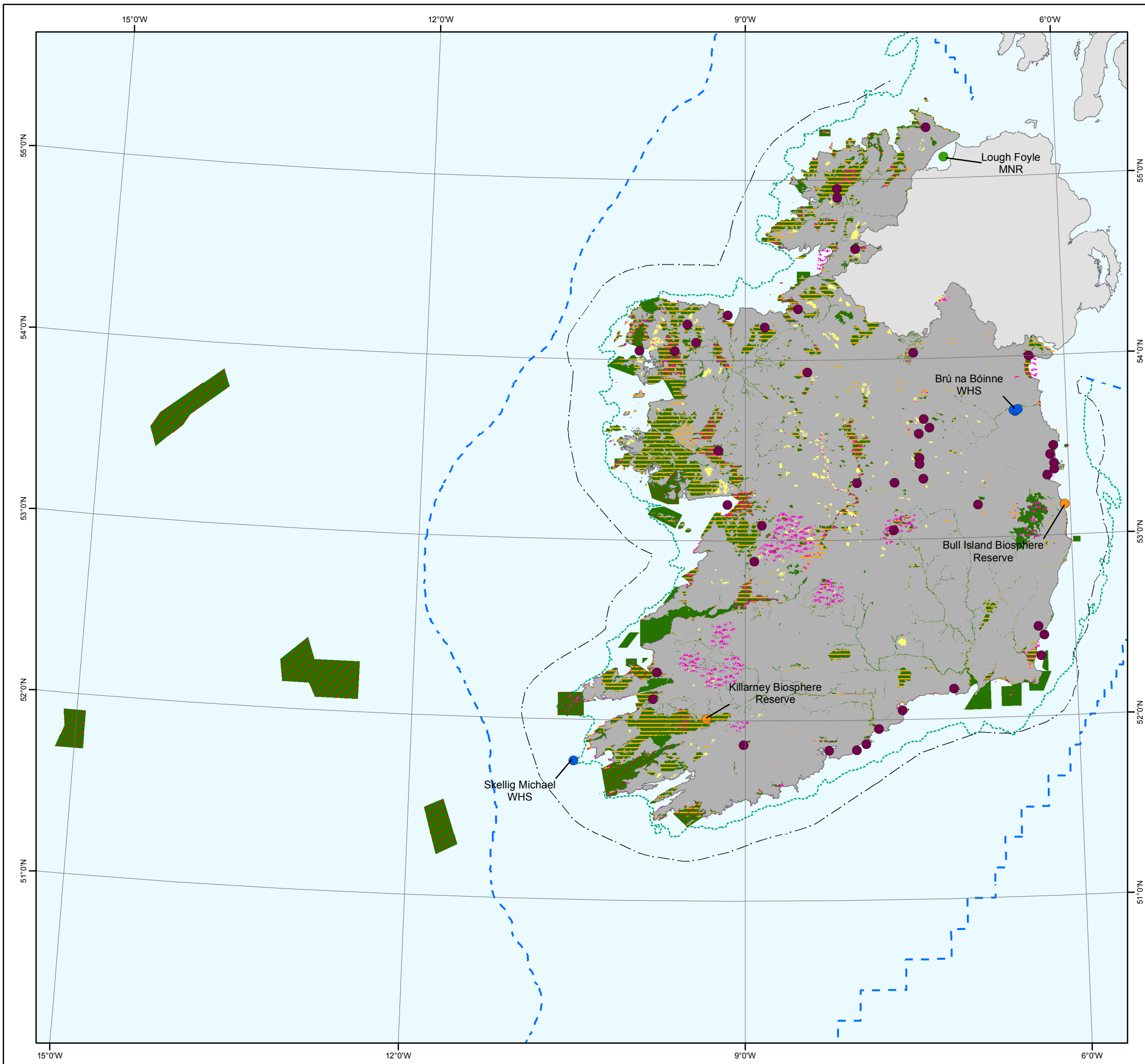


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Datum	D_WGS_1984	
Data Source	GEBCO, Marine Institute, EPA Petroleum Affairs Division, ESRI	
File Reference	J:\P1304\Mxd\Final Figures\9.2.3 Bathing Beaches.mxd	
Checked	Produced By	Harshal Galgale
	Reviewed By	Sally Holroyd



Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.3.1: Protected Sites

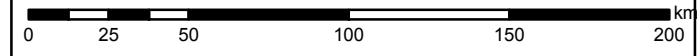
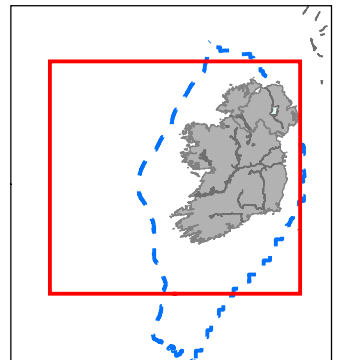


Legend

- | Background | Protected Sites |
|-------------|---------------------------------|
| Study area | UNESCO World Heritage Site |
| 12nm limit | UNESCO Biosphere Reserve |
| 60m Contour | Marine Nature Reserve |
| | Ramsar Site |
| | OSPAR Marine Protected Area |
| | Special Area of Conservation |
| | Special Protection Area |
| | Natural Heritage Area |
| | Potential Natural Heritage Area |

Note 1: Not to be used for navigation

Note 2: Full study area not shown. There are no protected sites relevant to this figure outside of the map extent.



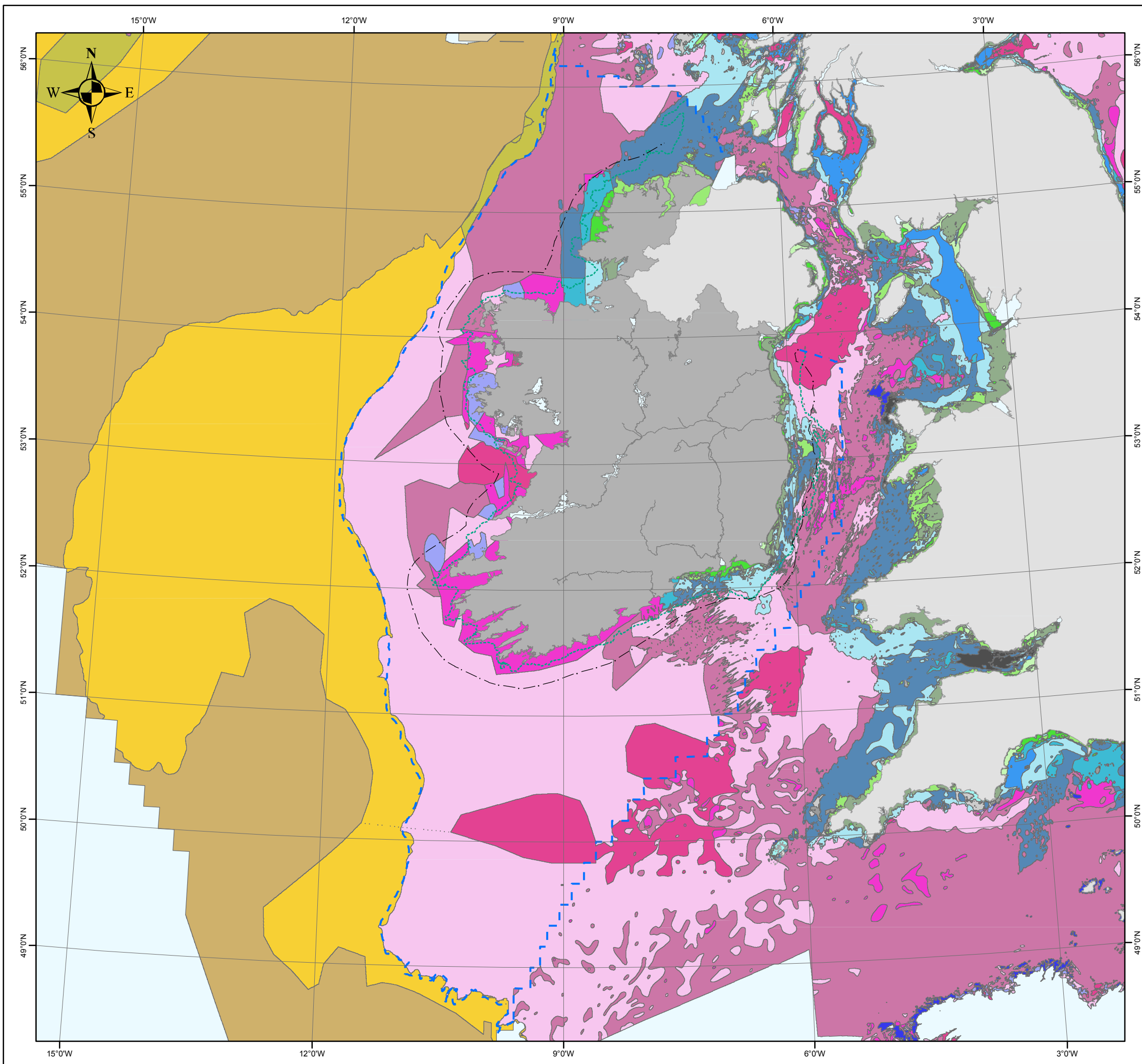
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Data Source	GEBCO, UKHO, Ramsar, UNESCO, Petroleum Affairs Division, NPWS, ESRI	
File Reference	J:\P1304\Mxd\Final Figures\9.3.1 Protected Sites.mxd	
Checked	Produced By	Louise Mann
	Reviewed By	Anna Place



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Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.3.2: Predicted EUNIS Habitats



Legend

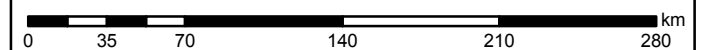
Background

- Ireland
- United Kingdom
- Study Area
- 12nm Limit
- 60m Contour

Predicted EUNIS Habitats

- Circalittoral coarse sediment
- Circalittoral fine sand or circalittoral muddy sand
- Circalittoral mixed sediments
- Circalittoral sandy mud or circalittoral fine mud
- Deep circalittoral coarse sediment
- Deep circalittoral mixed sediments
- Deep circalittoral mud
- Deep circalittoral sand
- Deep-sea coarse sediment
- Deep-sea mixed substrata
- Deep-sea mud
- Deep-sea sand or deep-sea muddy sand
- Faunal communities on deep low energy circalittoral rock
- Faunal communities on deep moderate energy circalittoral rock
- Infralittoral coarse sediment
- Infralittoral fine sand or infralittoral muddy sand
- Infralittoral mixed sediments
- Infralittoral sandy mud or infralittoral fine mud
- Low energy infralittoral rock
- High energy circalittoral rock
- High energy infralittoral rock
- Moderate energy circalittoral rock
- Moderate energy infralittoral rock
- Low energy circalittoral rock

Note 1: Not to be used for navigation

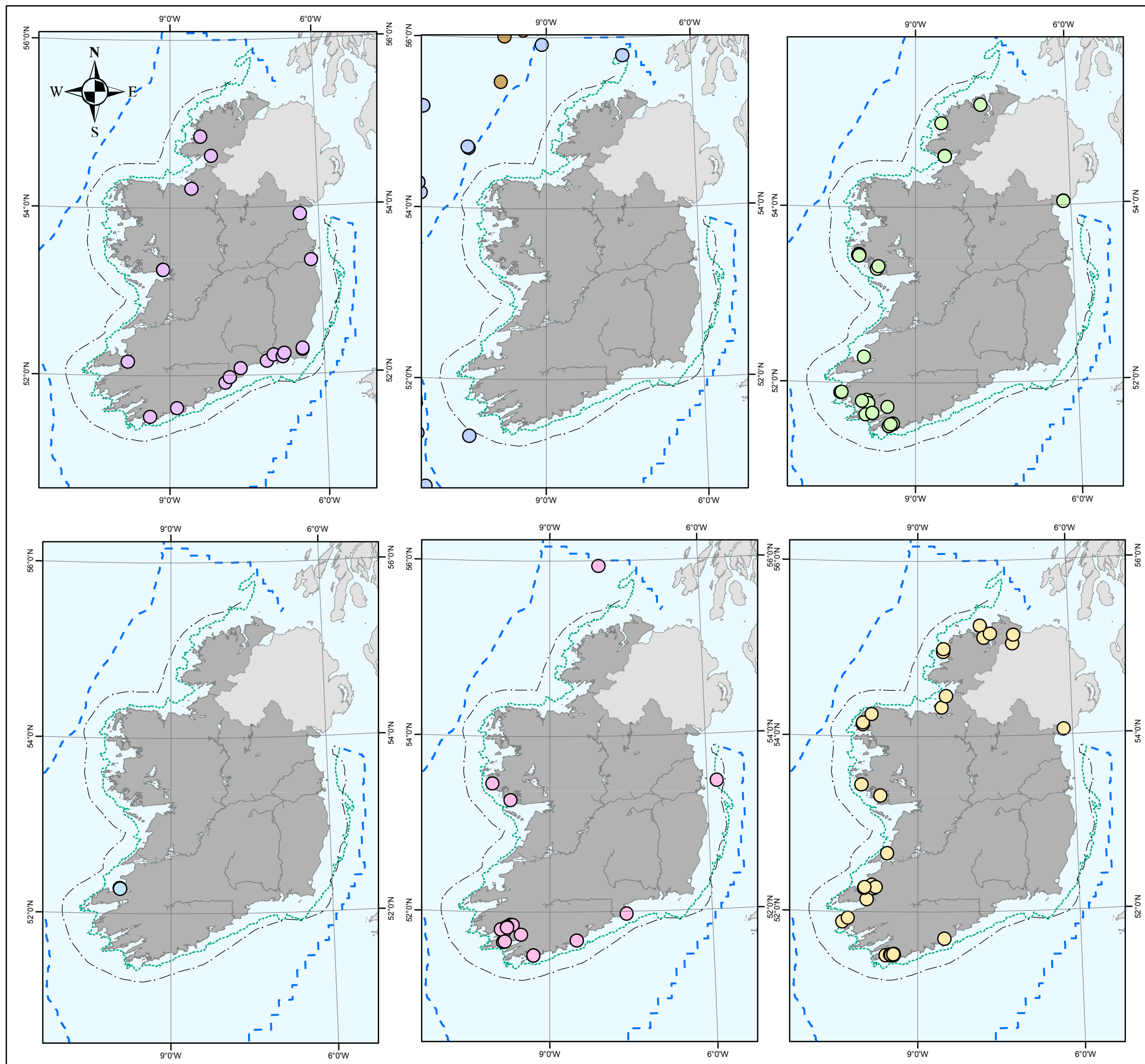


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Data Source	MESH, ESRI, GEBCO, Petroleum Affairs Division	
File Reference	J:\P1304\Mxd\Final Figures\ 9.2.2 Predicted EUNIS Habitats.mxd	
Checked	Produced By	Harshal Galgale
	Reviewed By	Anna Place



Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.3.3: Distribution of habitats on the Initial OSPAR List of Threatened and/or Declining Species and Habitats



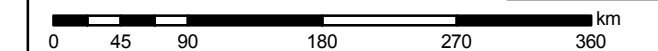
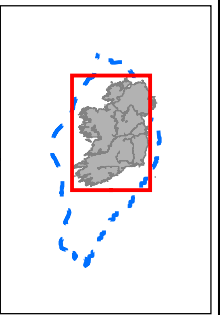
Legend

- Ireland
- United Kingdom
- Study area
- 12nm limit
- 60m contour
- Carbonate mounds
- Intertidal mudflats
- Lophelia pertusa reefs
- Maerl beds
- Ostrea edulis beds
- Sea-pen and burrowing megafauna communities
- Zostera beds

Note 1: Not to be used for navigation

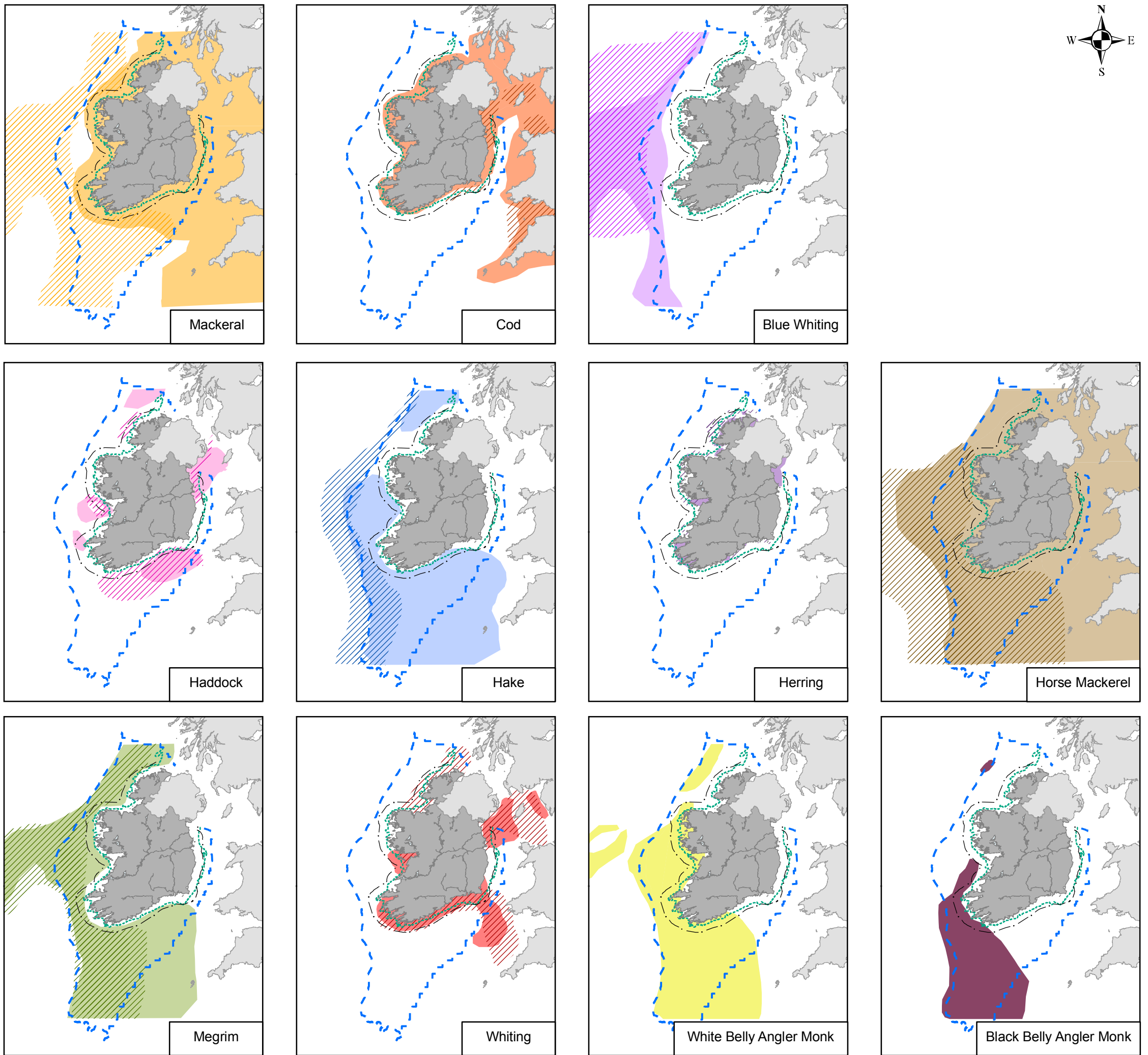
Note 2: Full study area not shown. There is no data relevant to this figure outside of the map extent.

Note 3: The maps are not yet considered to be comprehensive for Irish waters.



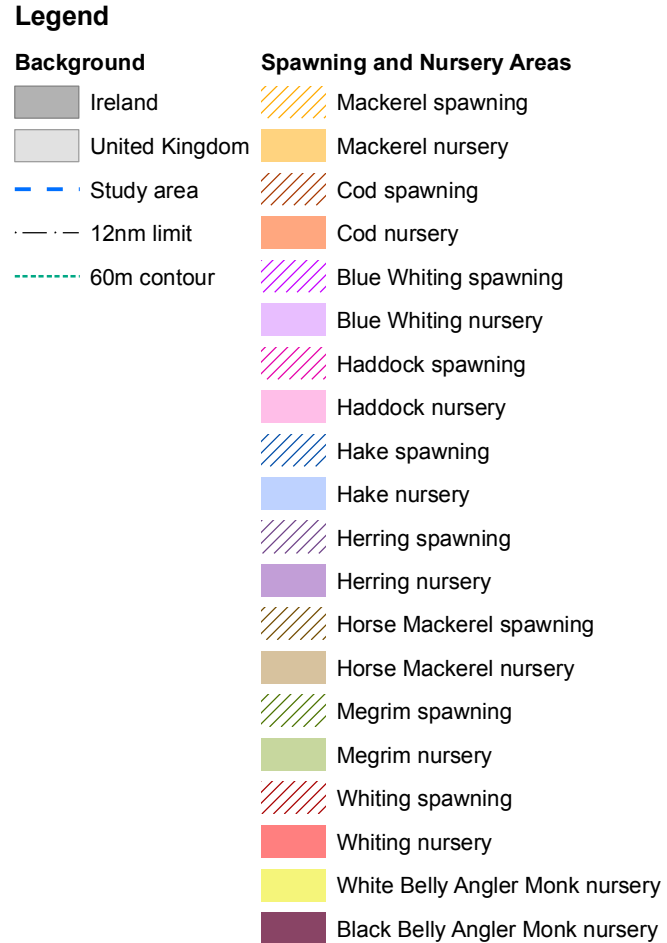
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Checked	Produced By	Rebecca Summons
	Reviewed By	Sally Holroyd





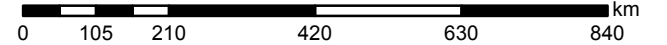
Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.3.4: Fish Spawning and Nursery Areas

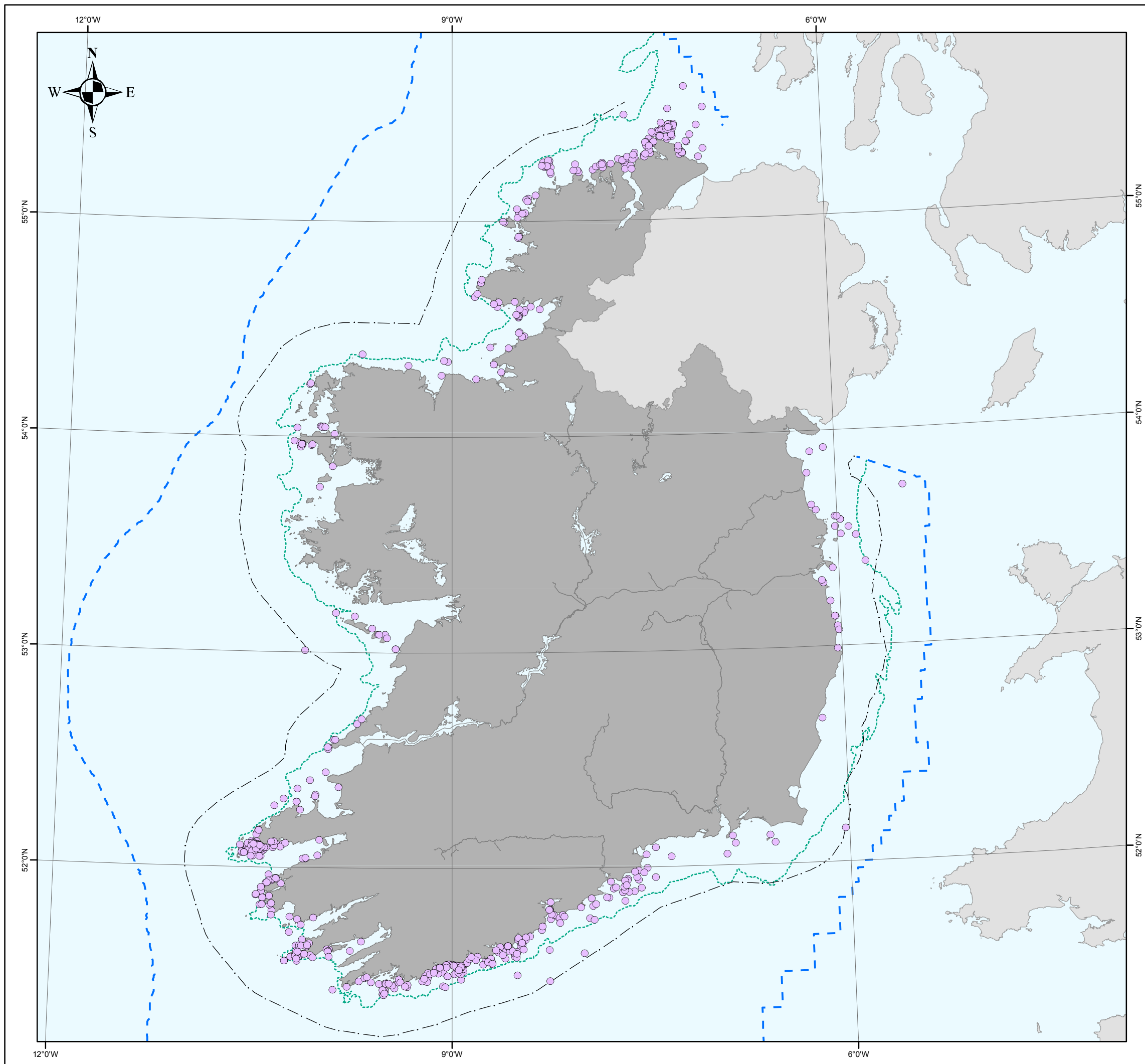


Note 1: Not to be used for navigation

Note 2: Data based on Lordan, C. and Gerritsen, H. 2009. Working Document on the Assessment of the "Irish Box" in the context of the Western Waters Regime. Working paper prepared for ICES Advisory Committee.



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Datum	D_WGS_1984	
Data Source	Lordan and Gerritsen, Petroleum Affairs Division, GEBCO, UKHO, ESRI	
File Reference	J:\P1304\Mxd\Final Figures\9.2.3 Fish Spawning and Nursery Areas.mxd	
Checked	Produced By	Anna Place
	Reviewed By	Sally Holroyd



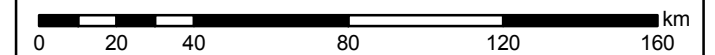
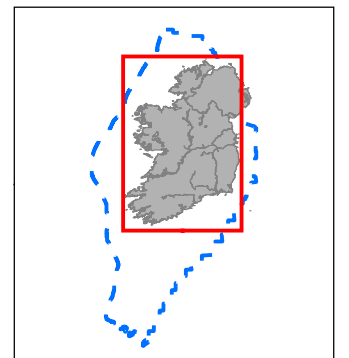
Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.3.5: Basking Shark Sightings

- Legend**
- | | |
|-------------------|---------------------------|
| Background | Basking Shark Data |
| Ireland | Sightings (1992 - 2009) |
| United Kingdom | |
| Study area | |
| 12nm limit | |
| 60m contour | |

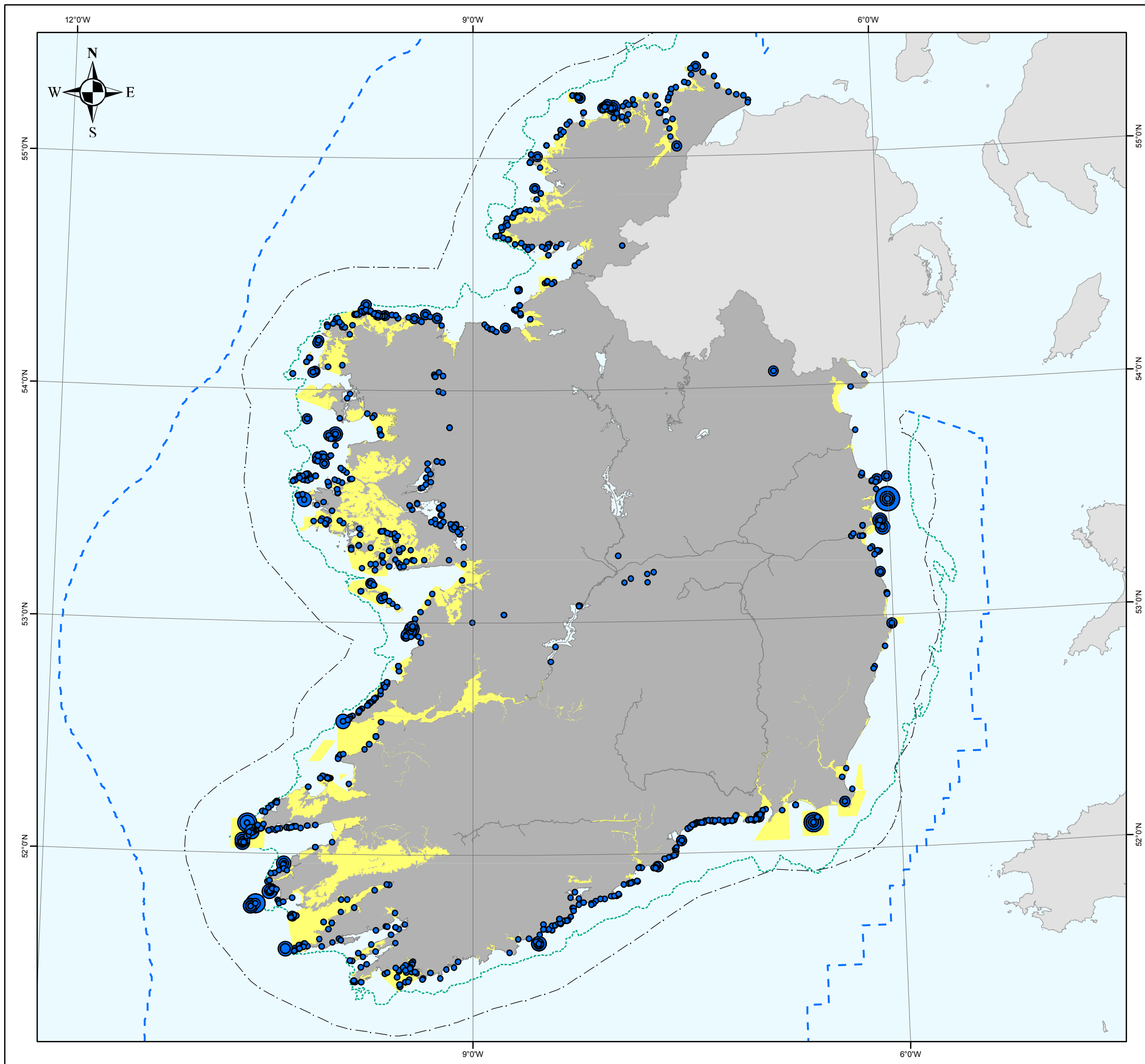
Note 1: Not to be used for navigation

Note 2: Full study area not shown. There is no data relevant to this figure outside of the map extent.



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Data Source	Irish Whale and Dolphin Group, Petroleum Affairs Division, GEBCO, UKHO	
File Reference	J:\P1304\Mxd\Final Figures\9.2.3 Basking Shark Sightings.mxd	
Checked	Produced By	Anna Place
	Reviewed By	Joanna Lester





Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

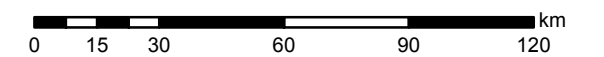
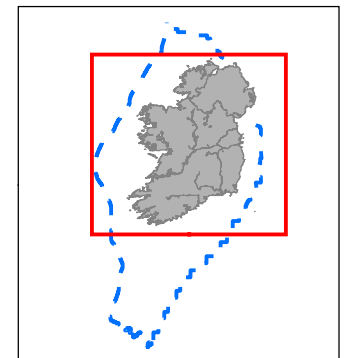
Figure 9.3.6: Seabirds

Legend

- | | |
|-------------------|----------------------------------|
| Background | Seabird colonies (counts) |
| Ireland | 0 - 500 |
| United Kingdom | 500 - 2500 |
| Study area | 2500 - 10000 |
| 12nm limit | 10000 - 30000 |
| 60m contour | 30000 - 70000 |
| Coastal SPA | |

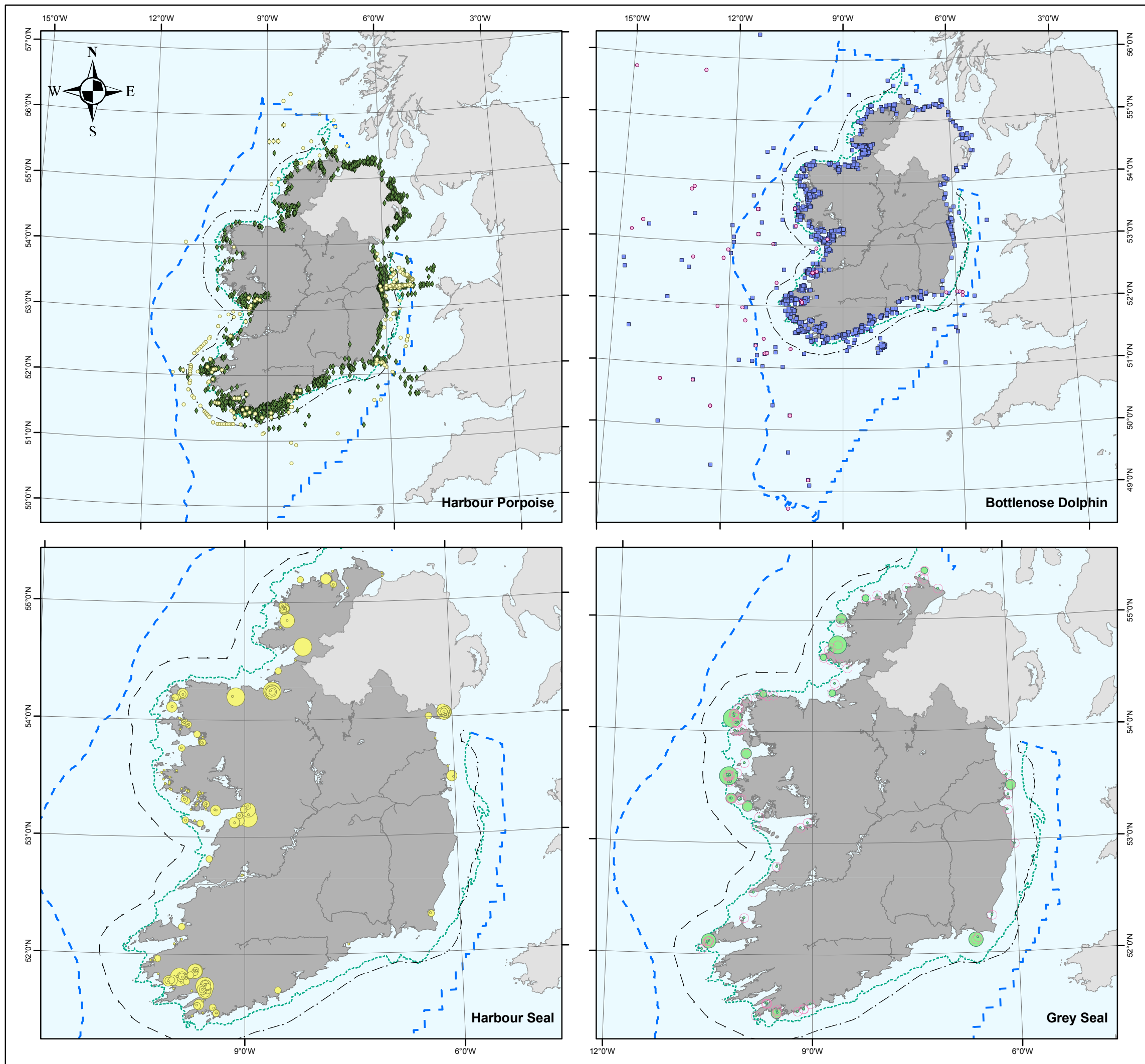
Note 1: Not to be used for navigation

Note 2: Full study area not shown. There is no data relevant to this figure outside of the map extent.



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Checked	Produced By	Anna Place
	Reviewed By	Sally Holroyd





Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.3.7a: Distribution of Annex II Marine Mammal Species

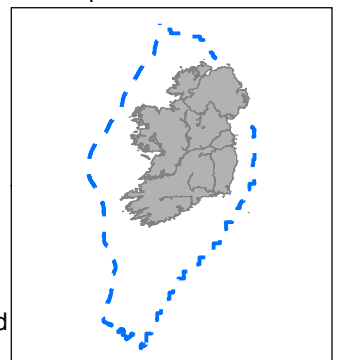
Legend

- | | |
|---------------------------------|-------------------------------------|
| Background | Harbour Seal |
| ■ Ireland | Minimum Population Estimates (2003) |
| ■ United Kingdom | ● 1 - 9 |
| - - - Study area | ● 10 - 22 |
| - - - 12nm limit | ● 23 - 39 |
| - - - 60m contour | ● 40 - 60 |
| | ● >60 |
| Grey Seal | Harbour Porpoise |
| ○ Breeding Site (2005) | ◆ IWDG Sighting (1986-2009) |
| ● Breeding Population Estimates | ● ESAS Sighting (1980-2001) |
| ● 0 - 10 | |
| ● 11 - 100 | Bottlenose Dolphin |
| ● 101 - 500 | ■ IWDG Sighting (1989-2009) |
| ● 501 - 1000 | ○ ESAS Sighting (1991-2001) |
| ● >1000 | |

Note 1: Map extents are representative of the data contained within. Where full study area not shown there is no data relevant to the figure outside of the map extent

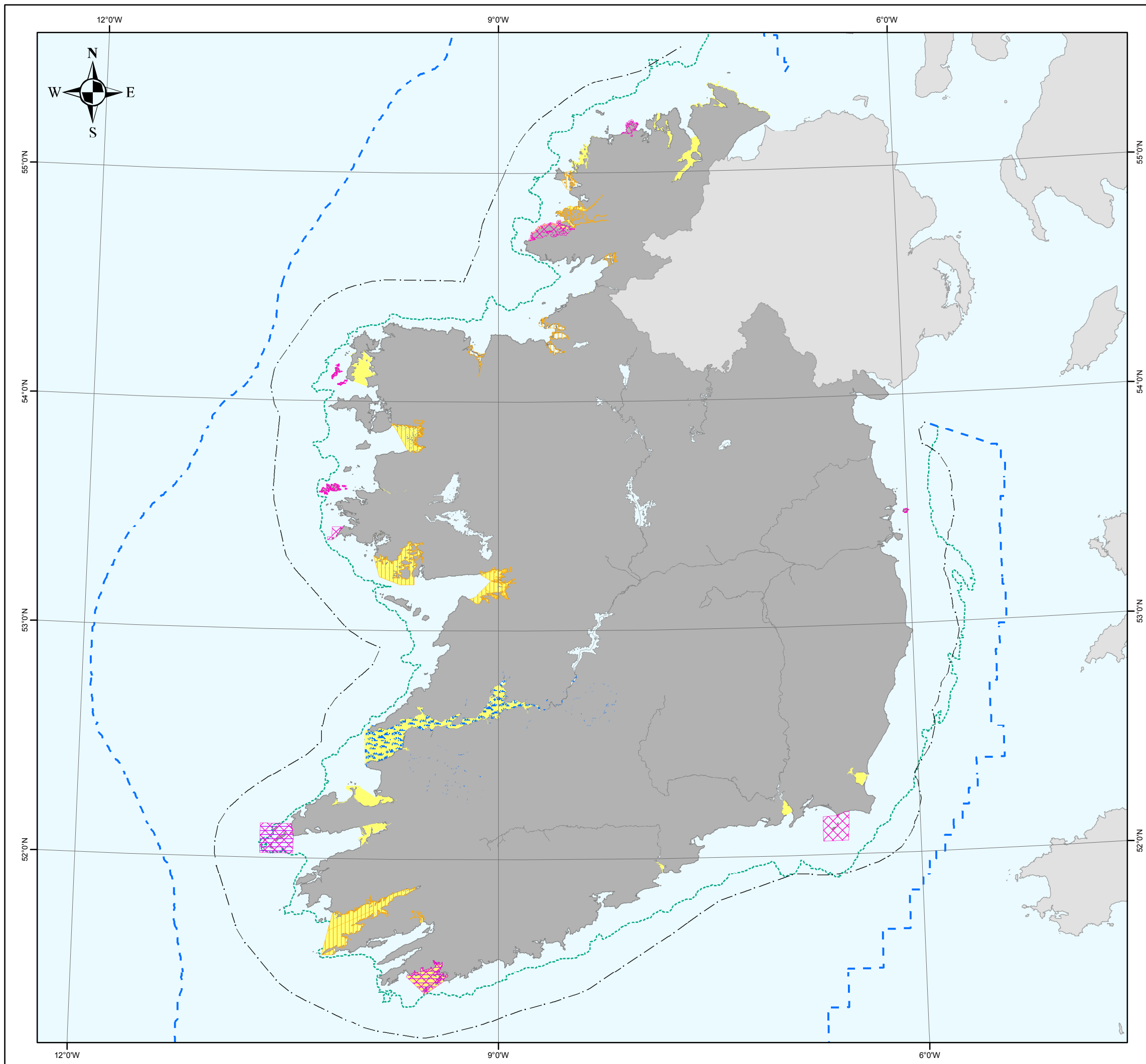
Note 2: Not to be used for navigation

Note 3: Sightings data is provided by the Irish Whale and Dolphin Group (IWDG) and the Joint Nature Conservation Committee's (JNCC) European Seabirds at Sea (ESAS) database. All IWDG records are validated and available at www.iwdg.ie



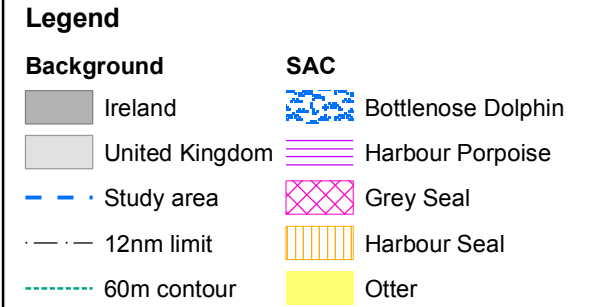
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Datum	D_WGS_1984	
Data Source	Irish Whale and Dolphin Group, JNCC, NPWS, Petroleum Affairs Division, GEBCO, ESRI	
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Checked	Produced By	Anna Place
	Reviewed By	Joanna Lester





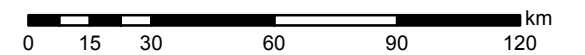
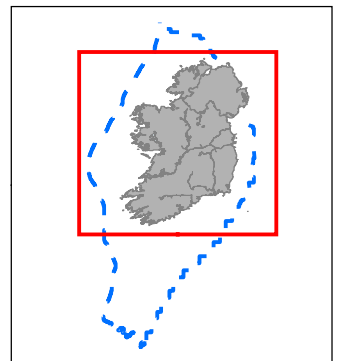
Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.3.7b: SAC Designations for Annex II Marine Mammal Species



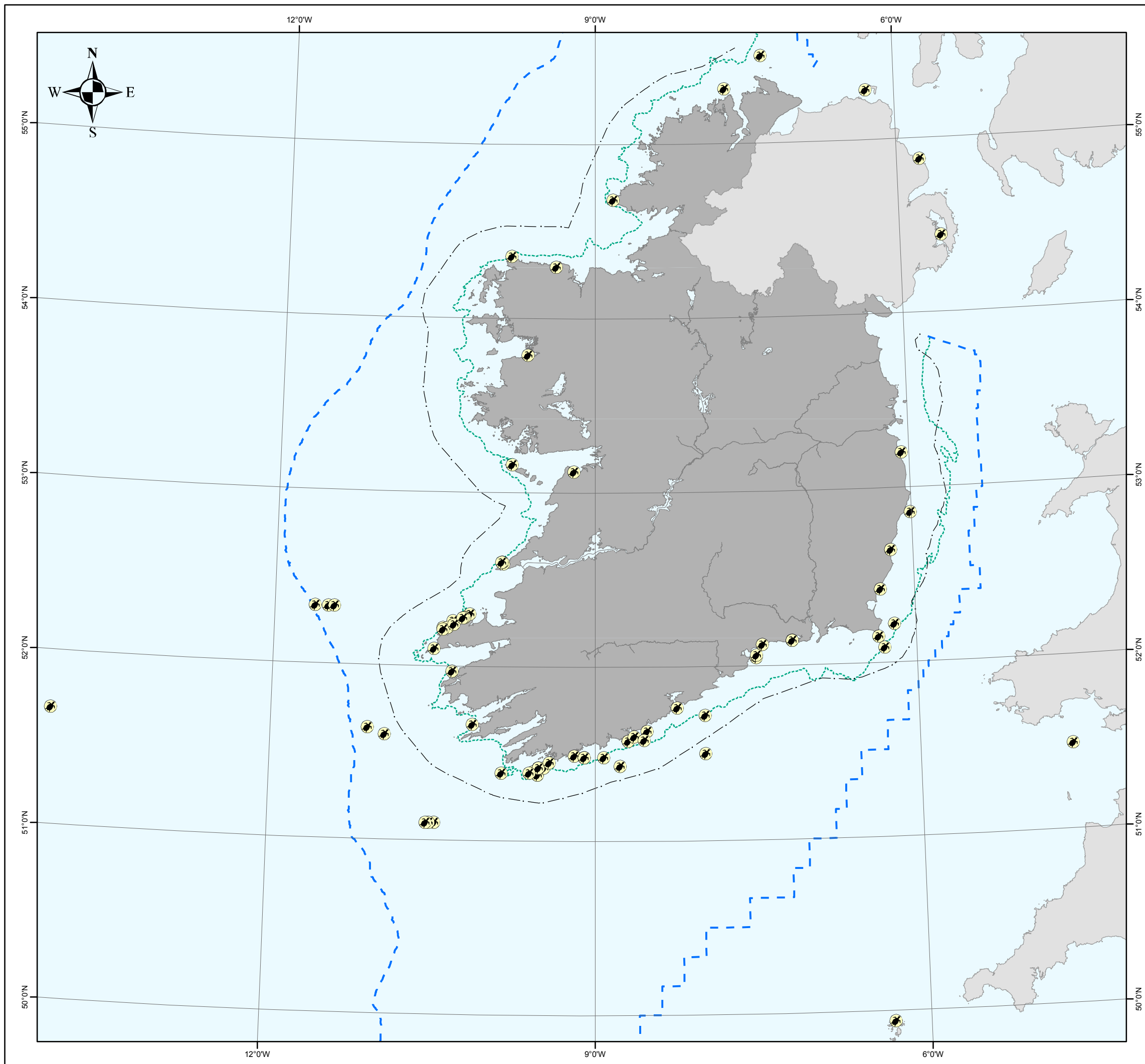
Note 1: Not to be used for navigation

Note 2: Full study area not shown. There is no data relevant to this figure outside of the map extent.



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File Reference	J:\P1304\Mxd\Final Figures\9.2.5SACDesignations forAnnexII MarineMammalSpecies.mxd	
Checked	Produced By	Anna Place
	Reviewed By	Sally Holroyd





Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.3.8: Leatherback Turtle Sightings

Legend

Background

- Ireland
- United Kingdom
- Study area
- 12nm limit
- 60m contour

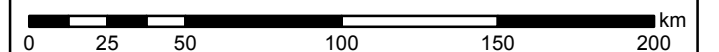
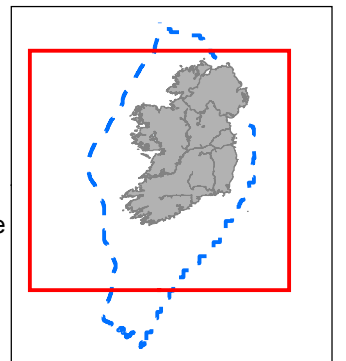
Turtle Sightings

- Leatherback sighting (2003-2009)

Note 1: Not to be used for navigation

Note 2: Full study area not shown. There are no Leatherback turtle sightings relevant to this figure outside of the map extent.

Note 3: The coastal bias probably reflects the distribution of observers (and fishing activity) rather than turtles as it very probable that large numbers of leatherbacks occur further offshore. Turtle strandings are not shown.

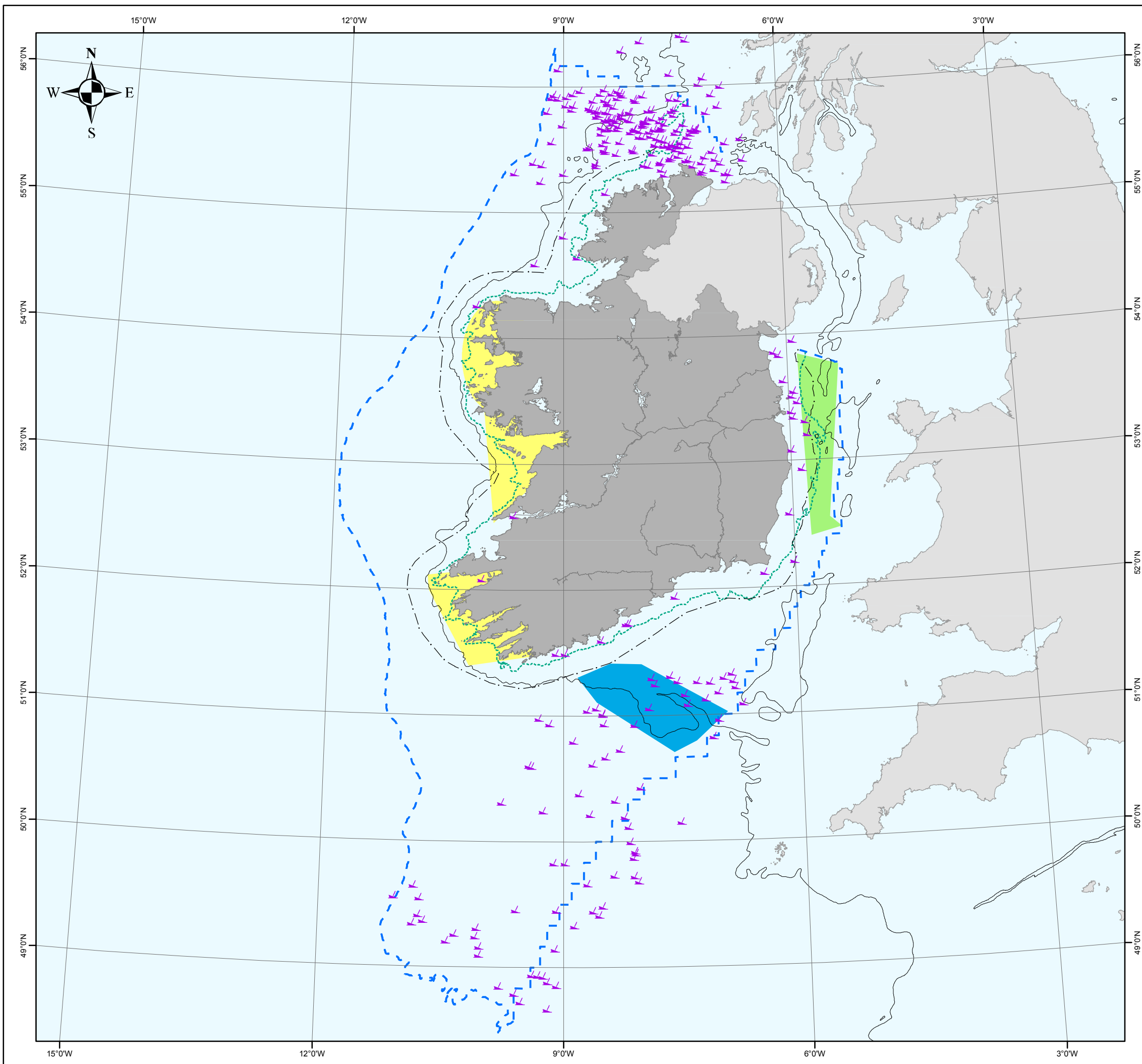


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Datum	D_WGS_1984	
Data Source	CRMC, Petroleum Affairs Division, GEBCO, ESRI	
File Reference	J:\P1304\Mxd\Final Figures\9.2.6 Leatherback Turtle Sightings.mxd	
Checked	Produced By	Anna Place
	Reviewed By	Sally Holroyd



Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.4.1: Cultural Heritage



Legend

Background

- Ireland
- United Kingdom
- Study Area *
- 12nm Limit
- 60m Contour

Bathymetry (m)

- 100m Depth Countour

Wrecks

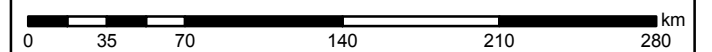
- Charted Wrecks

Examples of Potential Prehistoric Sites

- Drowned Estuaries and Inlets
- Glacial Lake Shores
- Sheltered Bays;

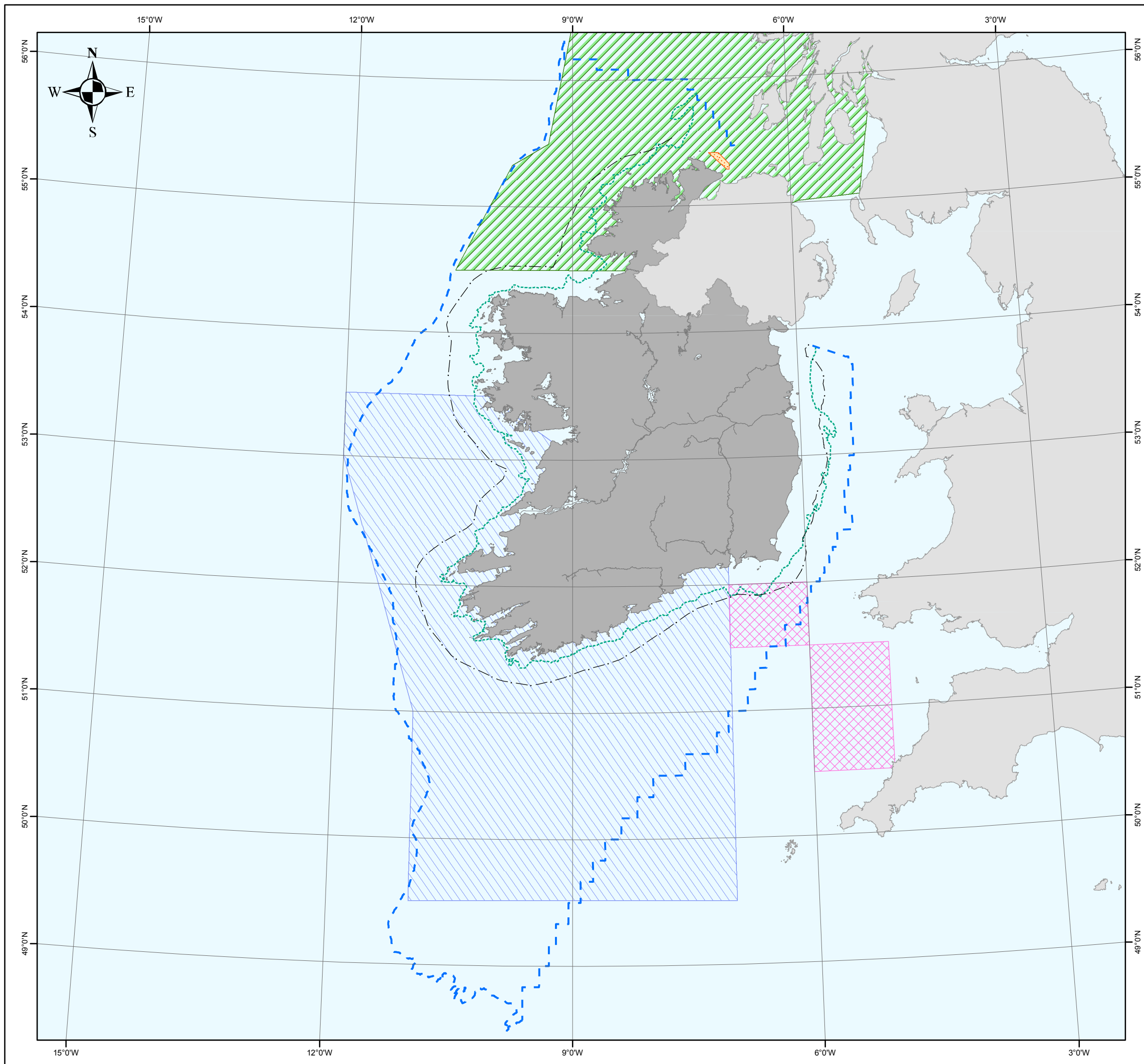
Note 1: The wrecks shown are Charted Wrecks. Other data exists but is uncharted so therefore not shown here due to accuracy concerns.

Note 2: Not to be used for navigation



Date	Friday, August 13, 2010 09:59:26	
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Datum	D_WGS_1984	
Data Source	UKHO, Petroleum Affairs Division, ESRI, GEBCO	
File Reference	J:\P1304\Mxd\Final Figures\9.3.1 Cultural Heritage.mxd	
Checked	Produced By	Harshal Galgale
	Reviewed By	Anna Place





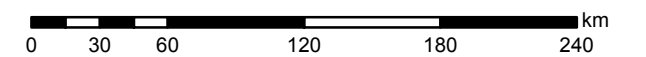
Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.5.1a: Fishery Restriction Areas

Legend

- | | |
|-------------------|------------------------------------|
| Background | Restricted Areas |
| Ireland | White fish restriction area |
| United Kingdom | Biologically sensitive area |
| Study area | Restricted area - cod spawning |
| 12nm limit | Greencastle codling protected area |
| 60m contour | |

Note 1: Not to be used for navigation



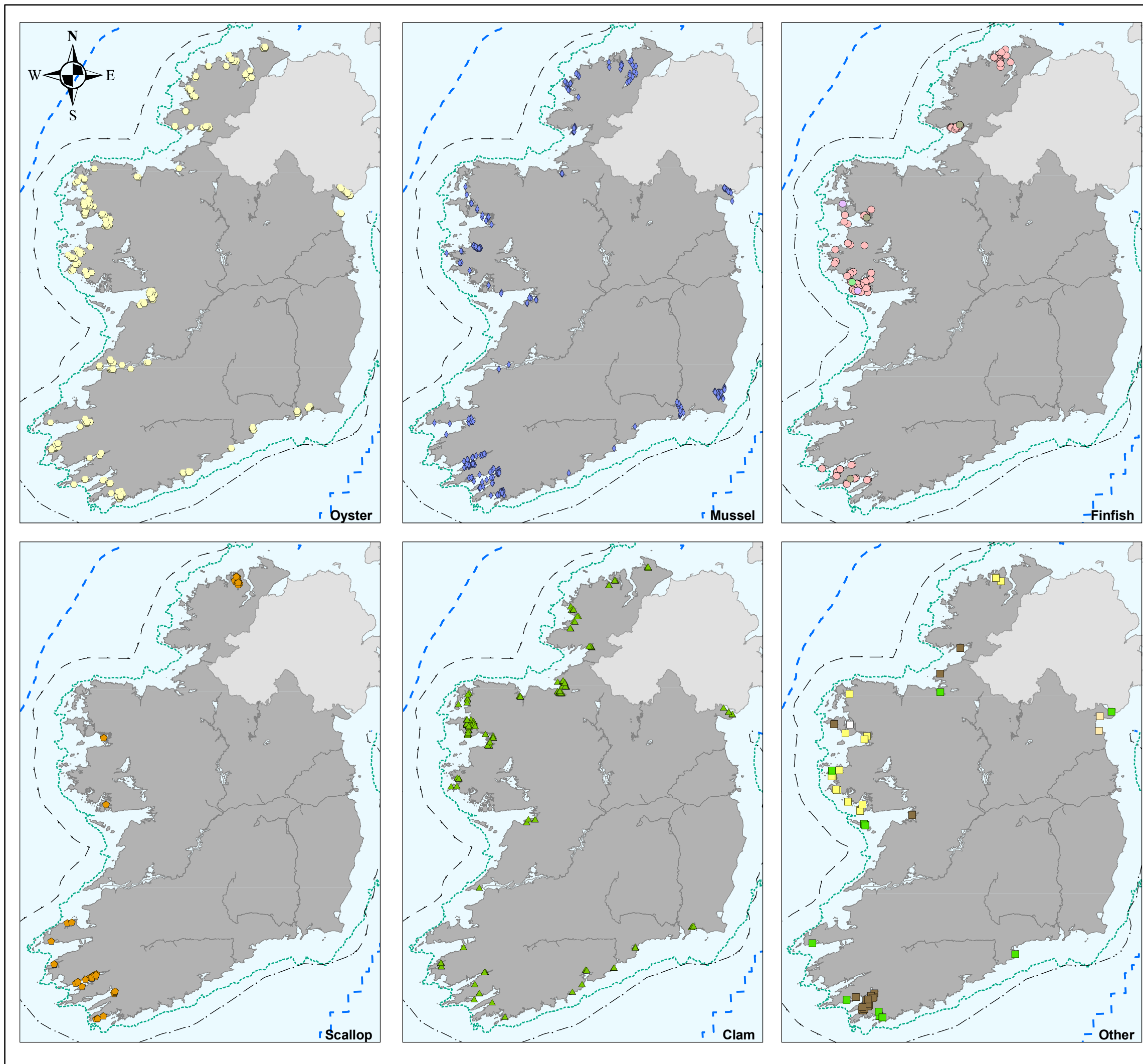
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Data Source	Marine Institute, BIM Aquaculture, CMRC, European Commission, Petroleum Affairs Division, GEBCO, UKHO	
File Reference	J:\P1304\Mxd\Final Figures\9.4.1a Fishery Restriction Areas.mxd	
Checked	Produced By	Anna Place
	Reviewed By	Sally Holroyd

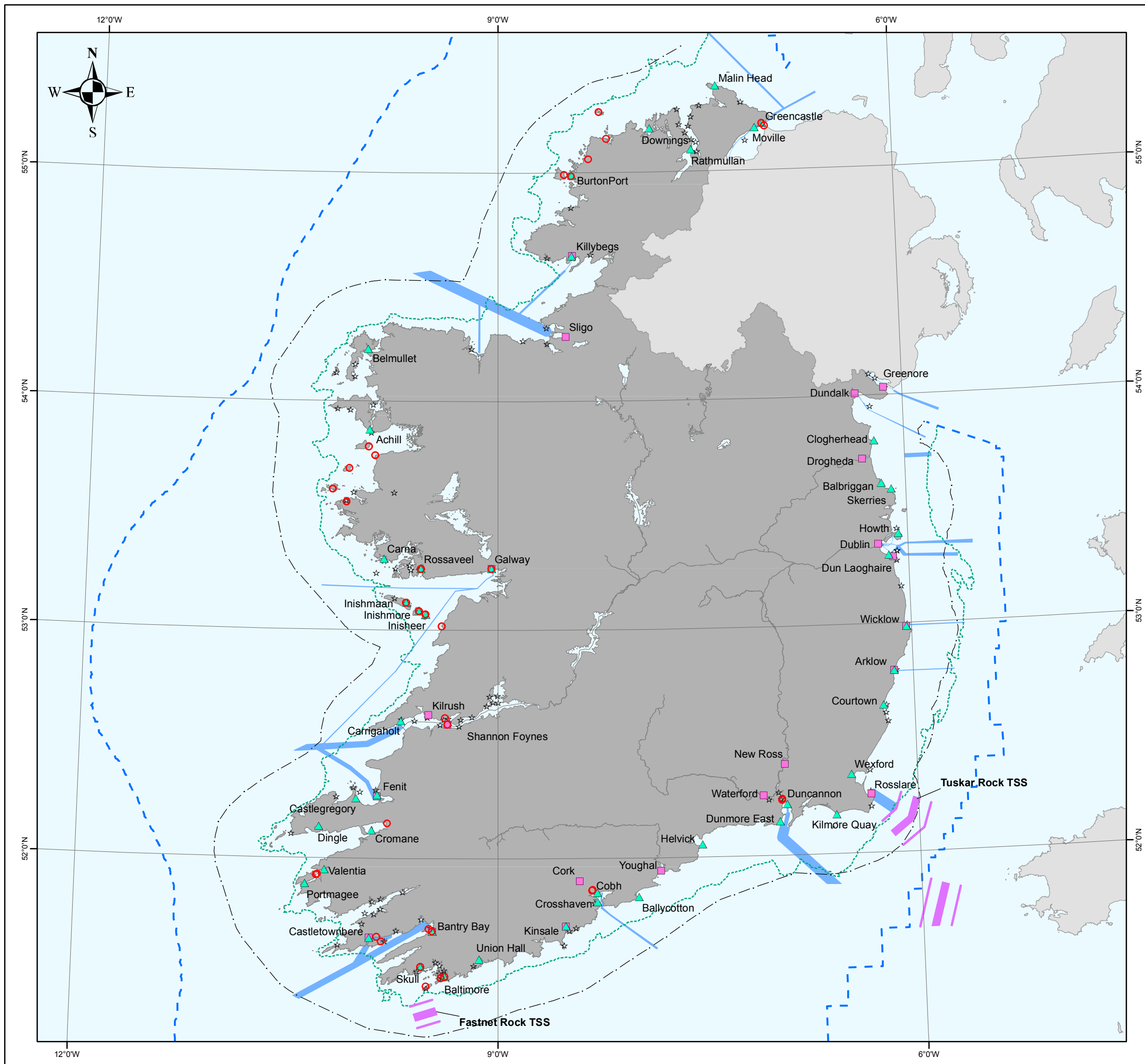


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Figure 9.5.1d: Licensed Aquaculture Sites





Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.5.2a: Ports and Navigational Infrastructure

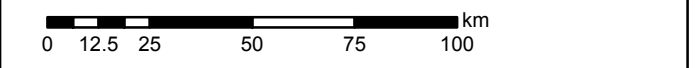
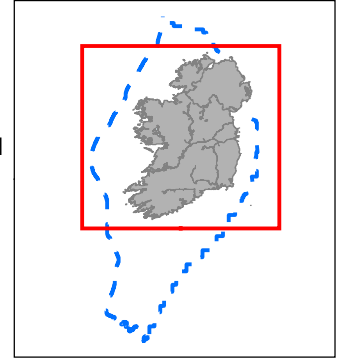
Legend

Background	Navigation Features
■ Ireland	■ Traffic Separation Scheme
■ United Kingdom	■ Indicative Navigation Channel
- - - Study area	☆ Nearshore Anchorage
— 12nm limit	
- - - 60m contour	
	Ports and Harbours
	■ Commercial Port
	▲ Fishing Port
	○ Local Ferry Port

Note 1: Not to be used for navigation

Note 2: Indicative Navigation Channel taken from SEI Wind Atlas

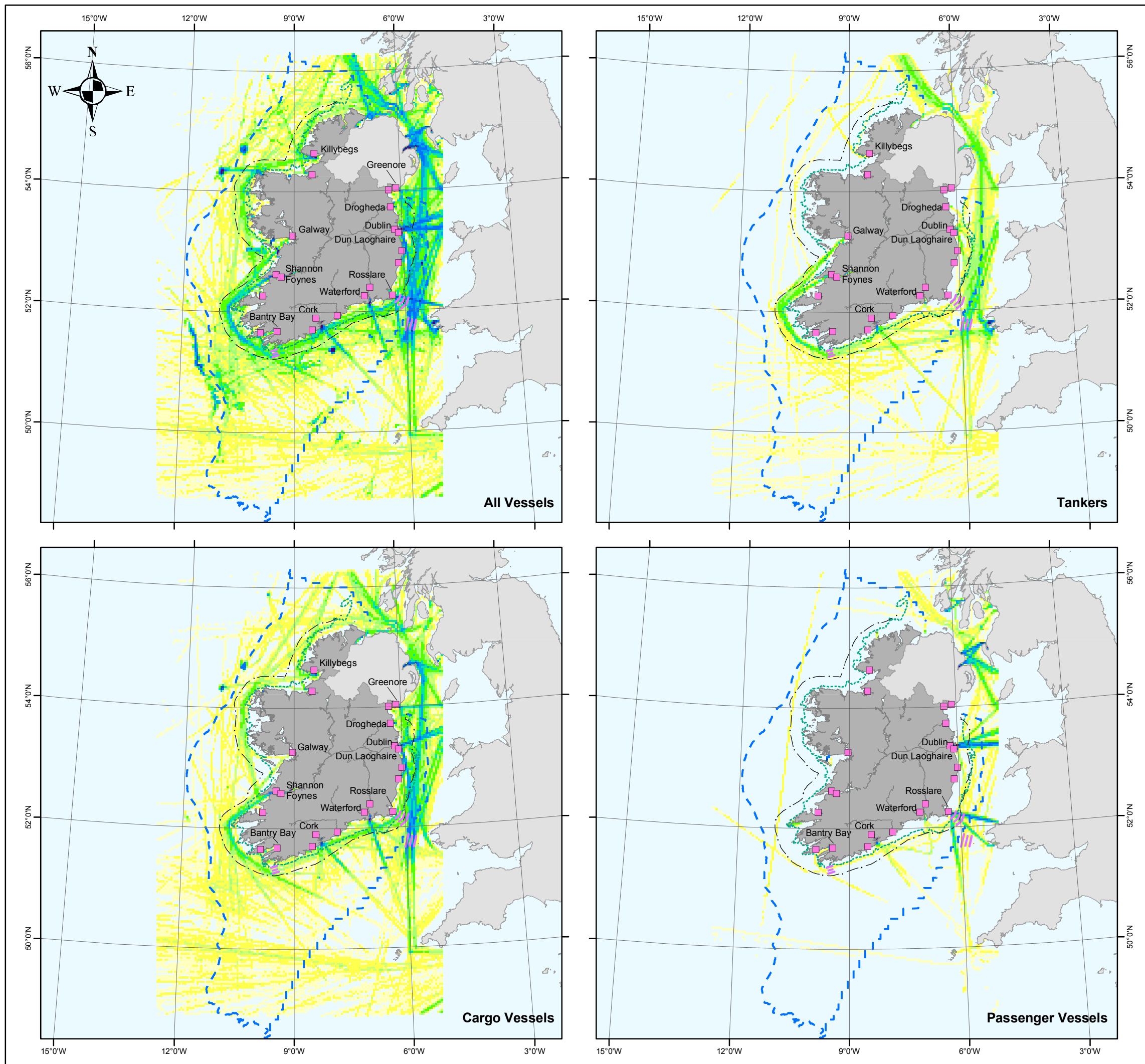
Note 3: Full study area not shown. There is no data relevant to this figure outside of the map extent.



Date	Tuesday, March 9, 2010 11:02:33	
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Spheroid	WGS_1984	
Datum	D_WGS_1984	
Data Source	CRMC, UKHO, Petroleum Affairs Division, SEI, GEBCO, ESRI	
File Reference	J:\P1304\Mxd\Final Figures\9.4.2a Ports and Navigational Infrastructure.mxd	
Checked	Produced By	Anna Place
	Reviewed By	Sally Holroyd

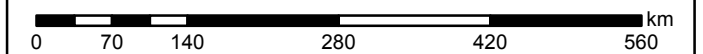
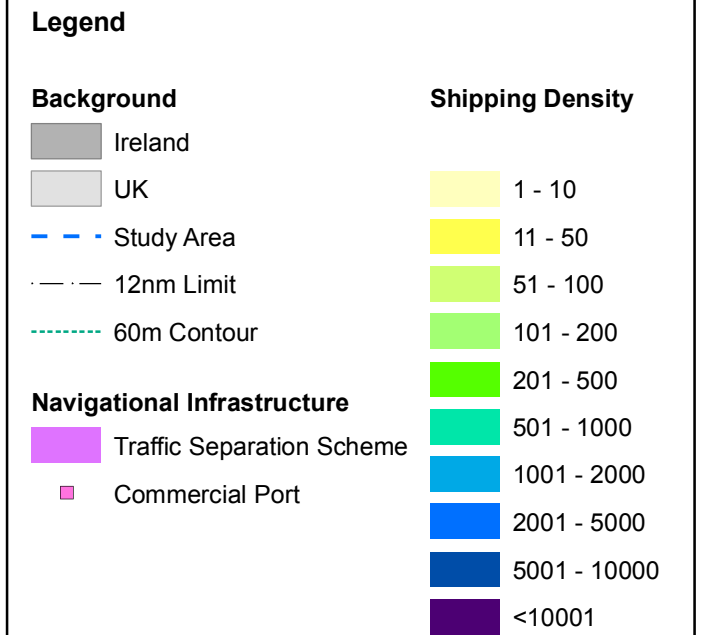


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Figure 9.5.2b: Shipping Density



Note 1: Shipping Density represents total vessels recorded per 2nm x 2nm grid square during July 2008.

Note 2: Shipping density is derived from AIS data provided by the Irish Coast Guard.

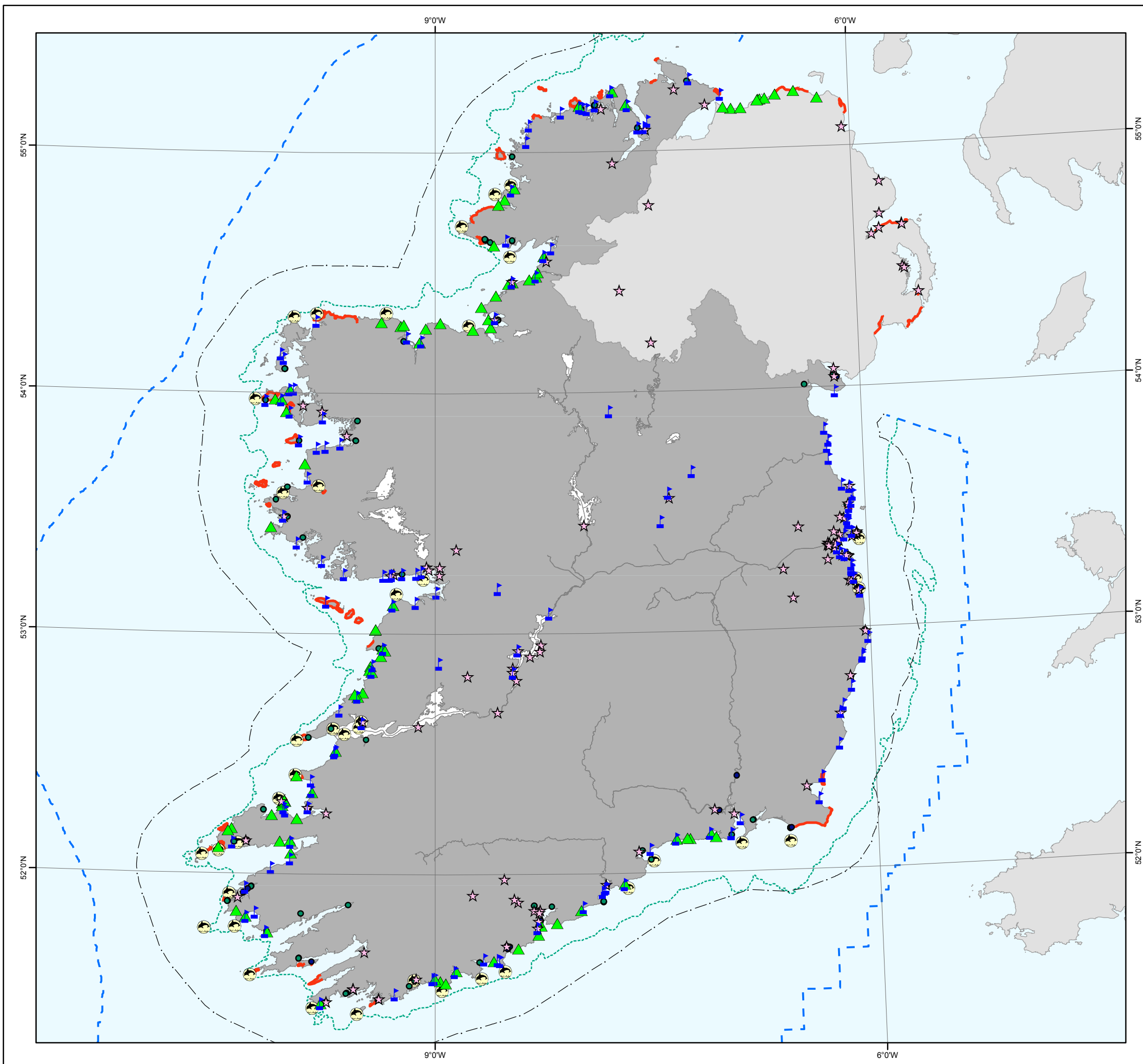
Note 3: 'All Vessels' includes the following categories: Wing in ground, Towing, Dredging or Underwater OPS, Diving OPS, Pilot Vessel, Search and rescue vessel, Tugs, Port tenders, Vessels with anti-pollution facilities or equipments, Law enforcement vessels, Medical transport, Ship according to RR Resolution No 18, Fishing, Military OPS, Sailing, Pleasure, High Speed Craft, Passenger, Cargo, Tanker

Note 4: Not to be used for navigation

Date	Tuesday, March 9, 2010 10:17:20	
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Datum	D_WGS_1984	
Data Source	Irish Coast Guard, CRMC, UKHO, Petroleum Affairs Division, GEBCO, ESRI, SEI	
File Reference	J:\P1304\Mxd\Final Figures\9.4.2a Shipping Density.mxd	
Checked	Produced By	Anna Place
	Reviewed By	Joanna Lester

Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.5.3: Recreation and Tourism



Legend

Background

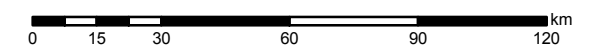
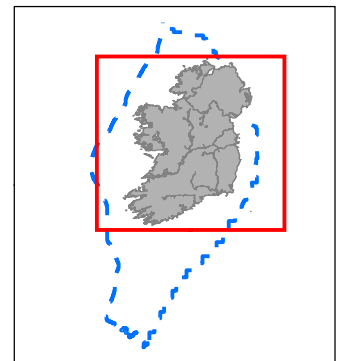
- Ireland
- United Kingdom
- Study area
- 12nm limit
- 60m Contour

Tourism and Recreation Sites

- Marinas
- Charter vessel port
- ISA sailing club
- Surfing location
- blueflagbeachesIE
- Whale & dolphin sighting
- CoastalWalks

Note 1: Not to be used for navigation

Note 2: Full study area not shown. There is no tourism or recreation activity relevant to this figure outside of the map extent.

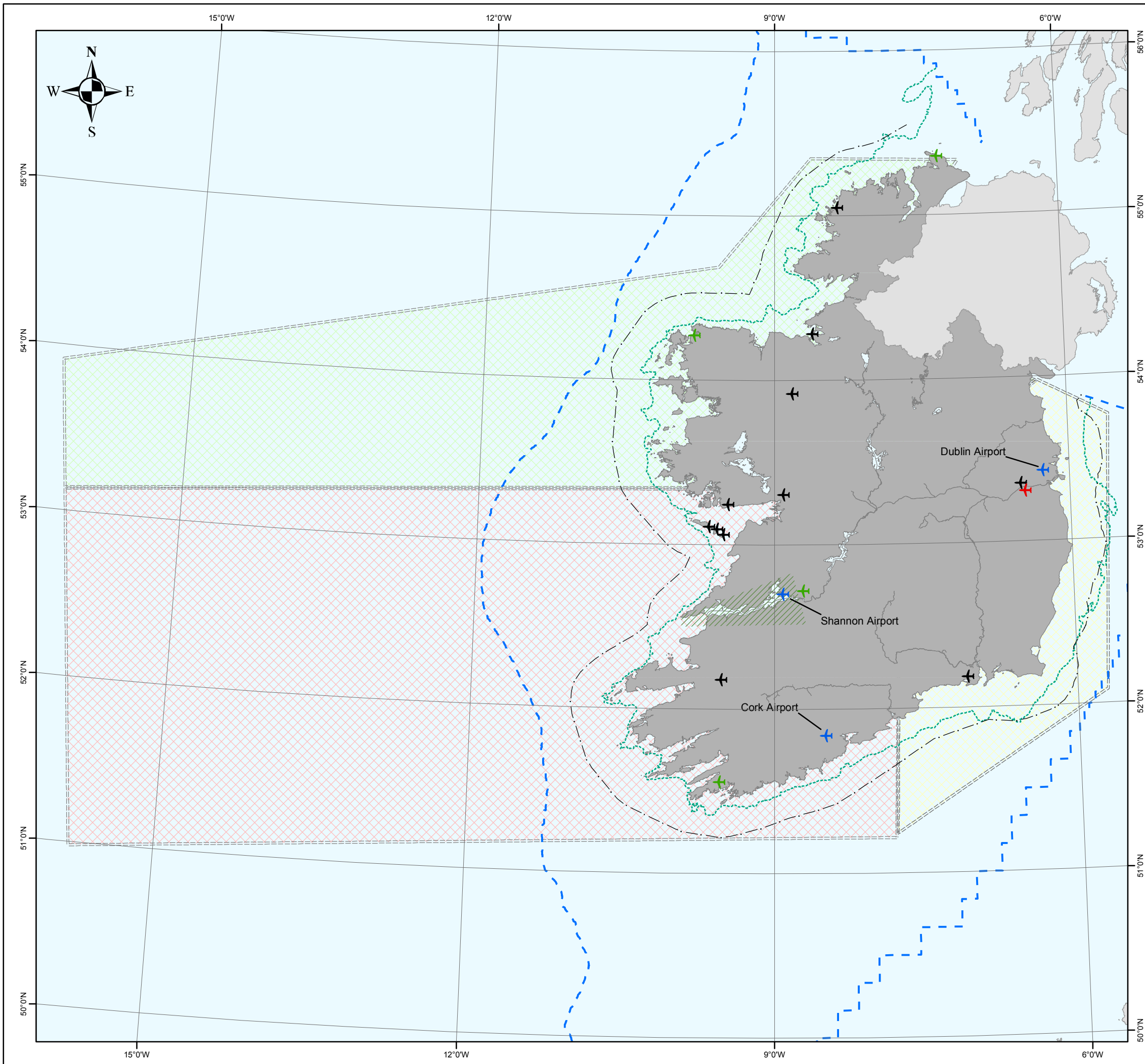


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Data Source	UKHO, GEBCO, ISA, CRMC, Petroleum Affairs Division An Taisce, Tidy Northern Ireland, ESRI	
File Reference	J:\P1304\Mxd\Final Figures\ 9.4.3 Tourism and Recreation.mxd	
Checked	Produced By	Louise Mann
	Reviewed By	Anna Place



Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.5.4: Aviation Interests

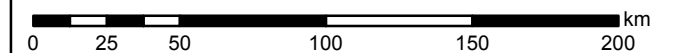
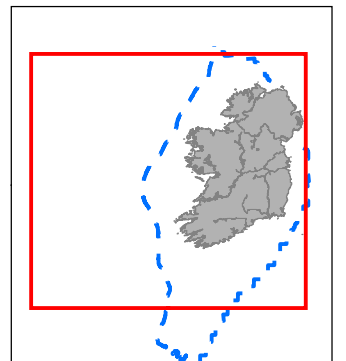


Legend

- Background**
- Ireland
 - United Kingdom
 - Study area
 - 12nm Limit
 - 60m Contour
- Marine search and rescue regions**
- Dublin Division
 - Malin Head Division
 - Valentia Division
 - Low level exclusion area
- Facility**
- Military aerodrome
 - Civil aerodrome
 - Civil aerodrome & radar
 - Radar

Note 1: Not to be used for navigation

Note 2: Full study area not shown. There is no existing aviation activity relevant to this figure outside of the map extent.



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Datum	D_WGS_1984	
Data Source	Irish Aviation Authority, Petroleum Affairs Division, GEBCO, UKHO, Department of Transport, SEI	
File Reference	J:\P1304\Mxd\Final Figures\9.4.4 Aviation Interests.mxd	
Checked	Produced By	Louise Mann
	Reviewed By	Sally Holroyd



Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.5.5: Military Activity

Legend

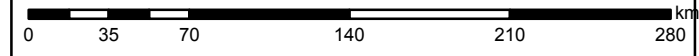
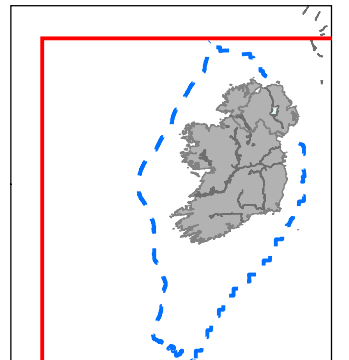
- Department of Defence Danger Area
- Charted Practice and Exercise Area

Background

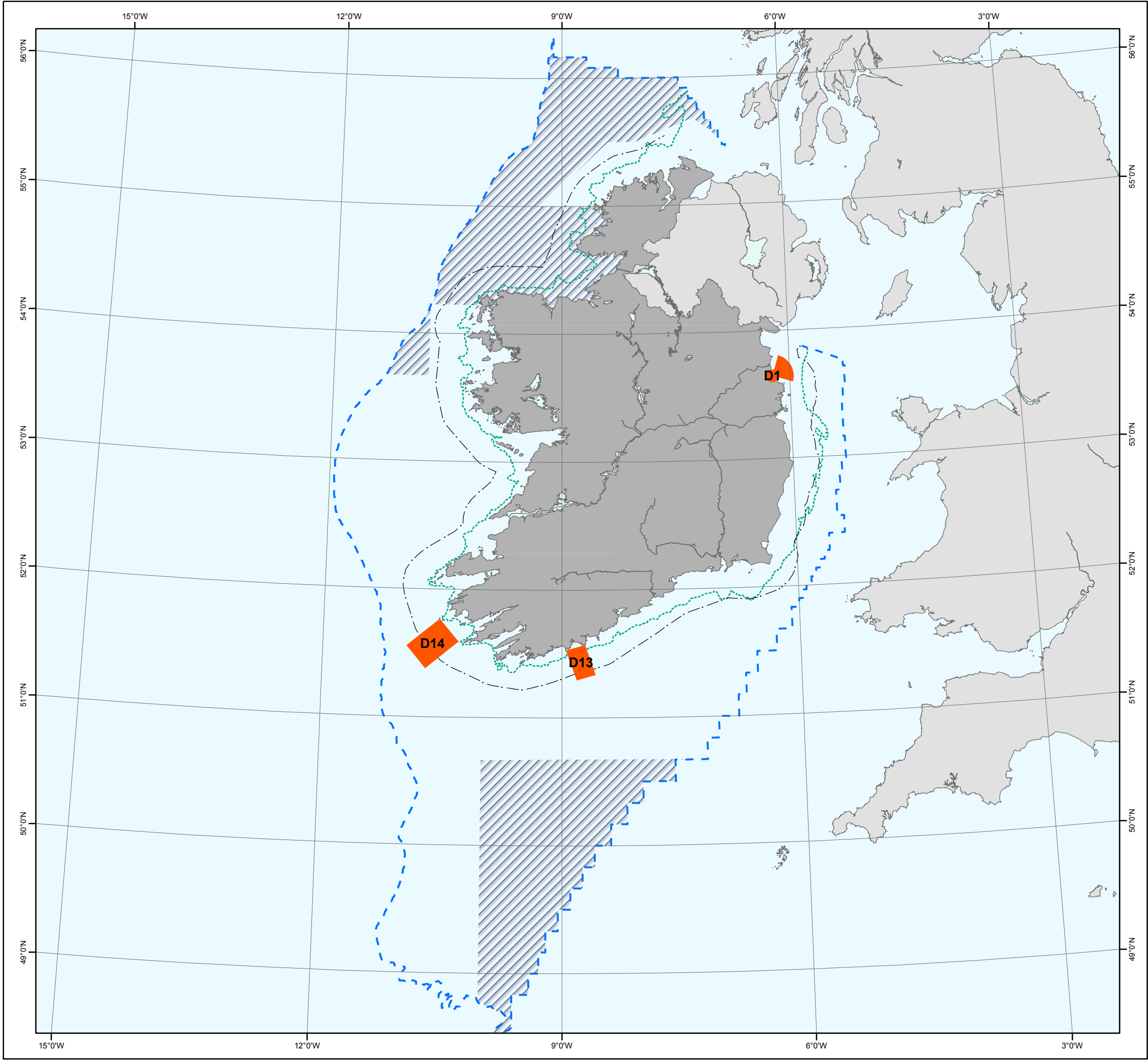
- Irish Republic
- United Kingdom
- Study area
- 12nm limit
- 60m Contour

Note 1: Not to be used for navigation

Note 2: Full study area not shown. There are no protected sites relevant to this figure outside of the map extent.

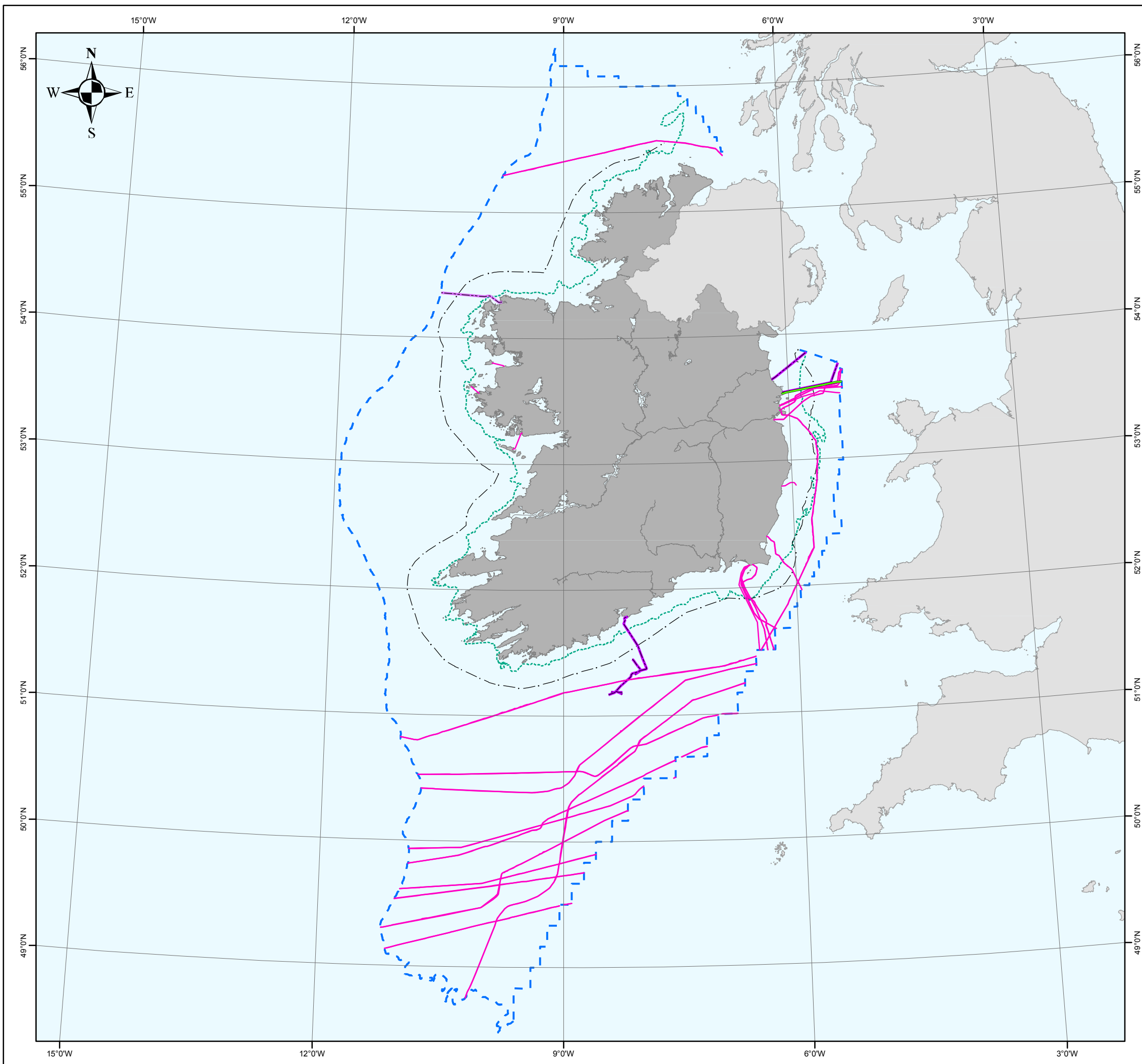


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Checked	Produced By	Louise Mann
	Reviewed By	Anna Place



Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.6.1: Cables and Pipelines



Legend

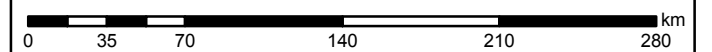
Background

- Ireland
- United Kingdom
- Study Area
- 12nm Limit
- 60m Contour

Cables and Pipelines (Study Area Only)

- Pipeline
- Active Cable
- Proposed East West Interconnector cable

Note 1: For display purposes cables and pipelines have been cropped to the study area, many of the cables and pipelines shown extend beyond the study area
Note 2: Not to be used for navigation

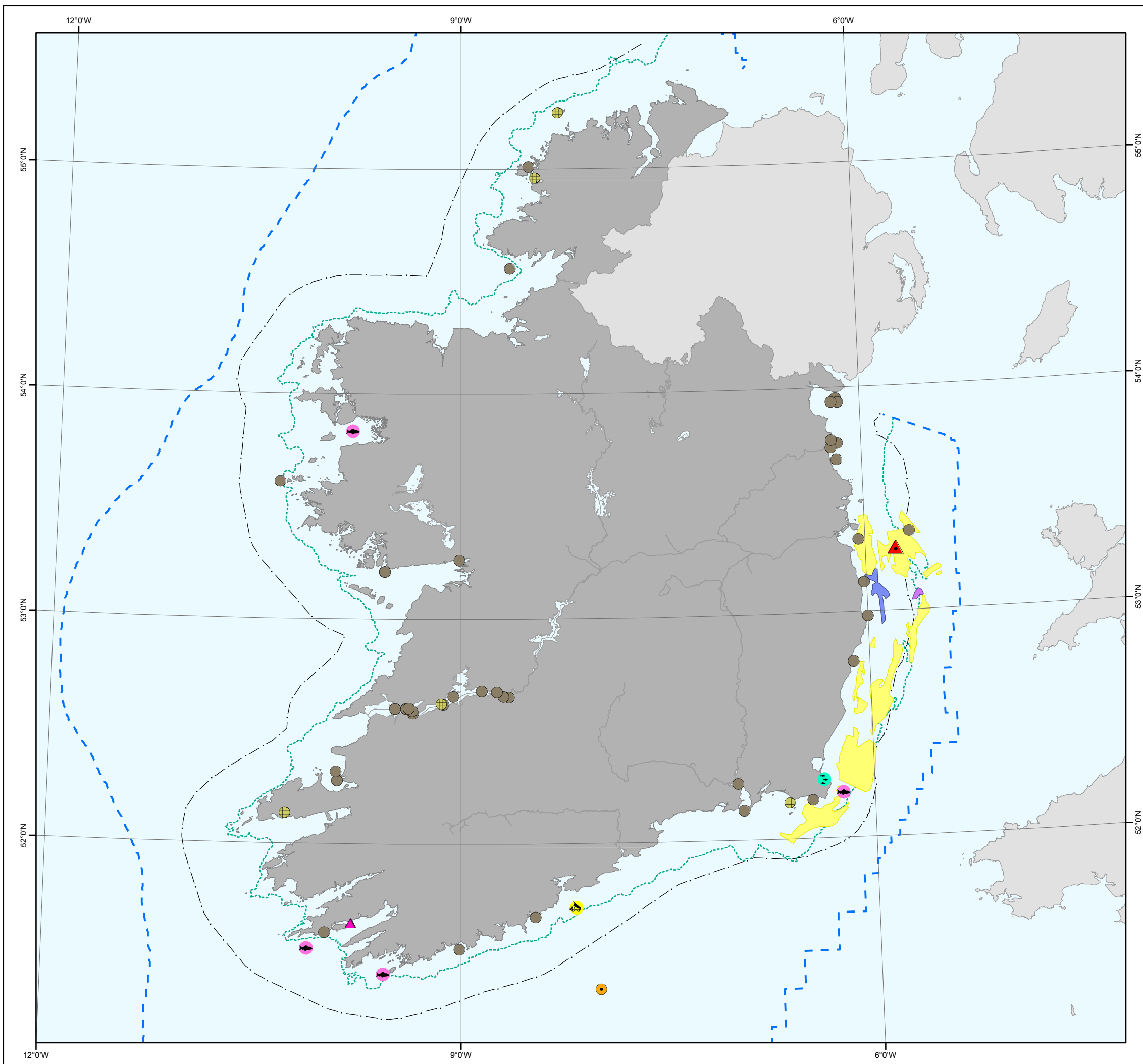


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Data Source	KISCA, Petroleum Affairs Division, GEBCO, UKHO	
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Checked	Produced By	Anna Place
	Reviewed By	Sally Holroyd



Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.6.2: Dredging & Disposal Areas



Legend

Background

- Ireland
- United Kingdom
- Study area
- 12nm limit
- 60m Contour

Aggregate Resource Potential

- Sandy
- Gravelly
- Mixed

Disposal sites

- Fish waste
- Fish waste & dredge spoil
- Dredge spoil
- Rock & dredge spoil
- Methanol
- Industrial waste
- Sewage sludge

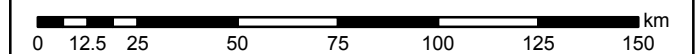
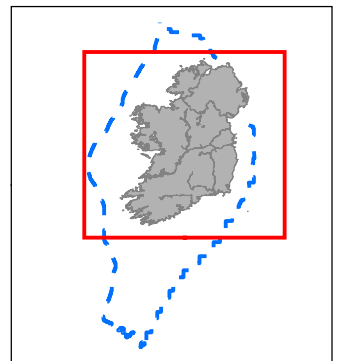
Extraction sites

- Maerl extraction site

Note 1: Aggregate Resource Potential derived from Sutton *et al.* (2008). Policy Report - Issues and Recommendations for the Development and Regulation of Marine Aggregate Extraction in the Irish Sea. Marine Environment and Health Series, No. 32, 2008

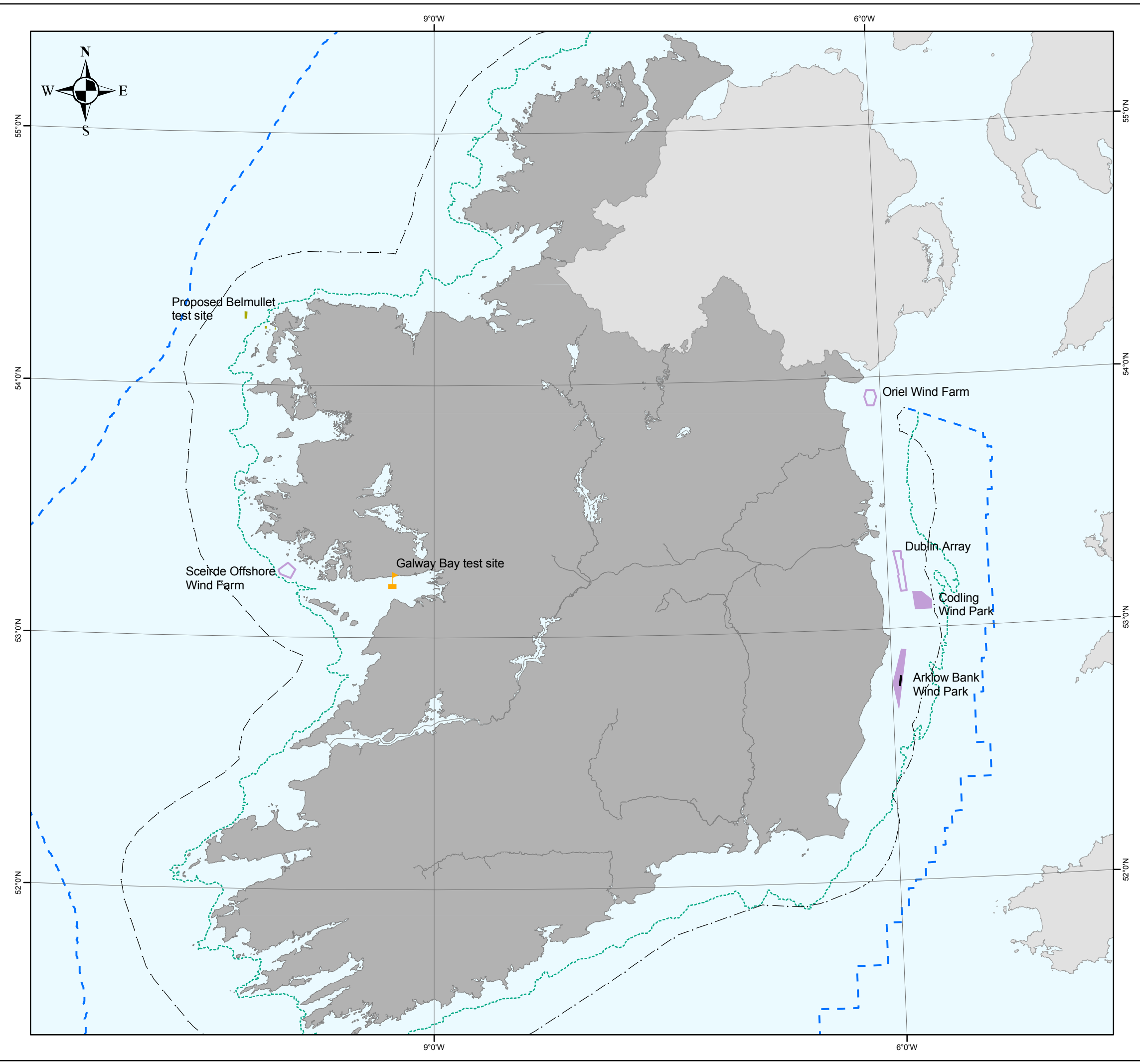
Note 2: Not to be used for navigation

Note 3: Full study area not shown. There is no data relevant to this figure outside of the map extent.



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Spheroid	WGS_1984	
Datum	D_WGS_1984	
Data Source	GEBCO, UKHO, Marine Institute, Petroleum Affairs Division	
File Reference	J:\P1304\Mxd\Final Figures\9.5.2 Dredging and Disposal Areas.mxd	
Checked	Produced By	Anna Place
	Reviewed By	Sally Holroyd





Strategic Environmental Assessment of Wave, Tidal and Offshore Wind Development in Irish Waters

Figure 9.6.3: Existing Renewable Infrastructure

Legend

Background

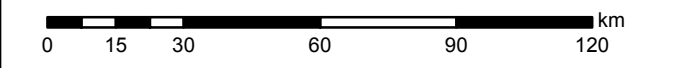
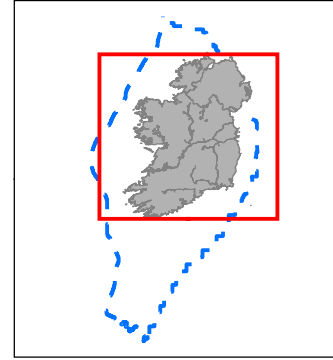
- Ireland
- United Kingdom
- Study area
- 12nm limit
- 60m contour

Renewable Infrastructure

- Wind farm in operation
- Windfarm lease area
- Winfarm lease area under application
- Proposed Belmullet wave energy test site
- Wave energy test site

Note 1: Not to be used for navigation

Note 2: Full study area not shown. There is no existing renewable infrastructure relevant to this figure outside of the map extent.



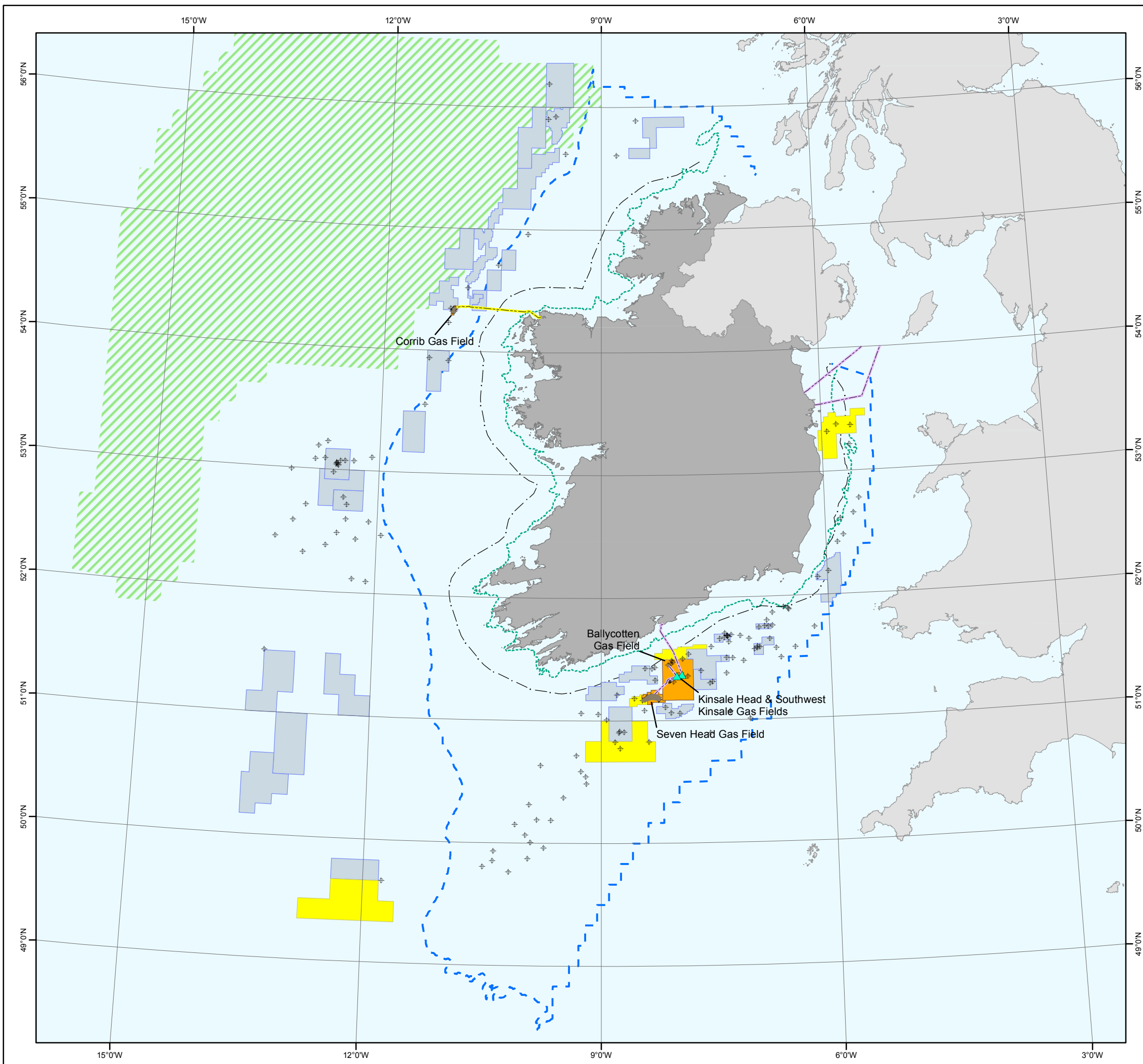
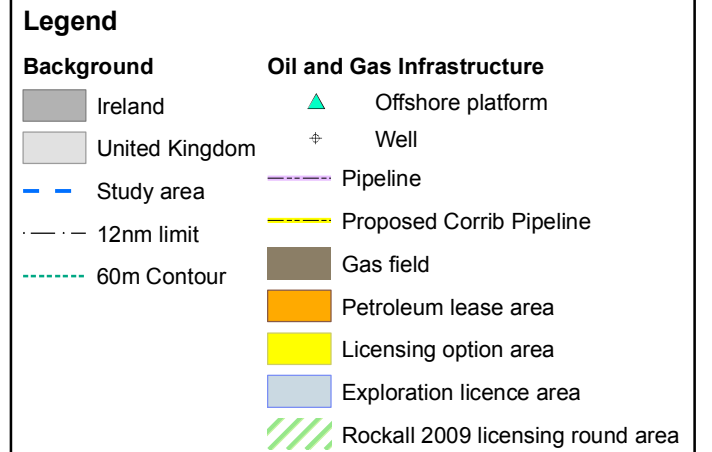
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Checked	Produced By	Anna Place
	Reviewed By	Sally Holroyd



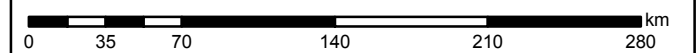
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Figure 9.6.4: Oil and Gas Infrastructure



Note 1: Not to be used for navigation



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Datum	D_WGS_1984	
Data Source	GEBCO, UKHO, Petroleum Affairs Division, ESRI	
File Reference	J:\P1304\Mxd\Final Figures\ 9.5.5 Oil and Gas Infrastructure.mxd	
Checked	Produced By	Louise Mann
	Reviewed By	Sally Holroyd