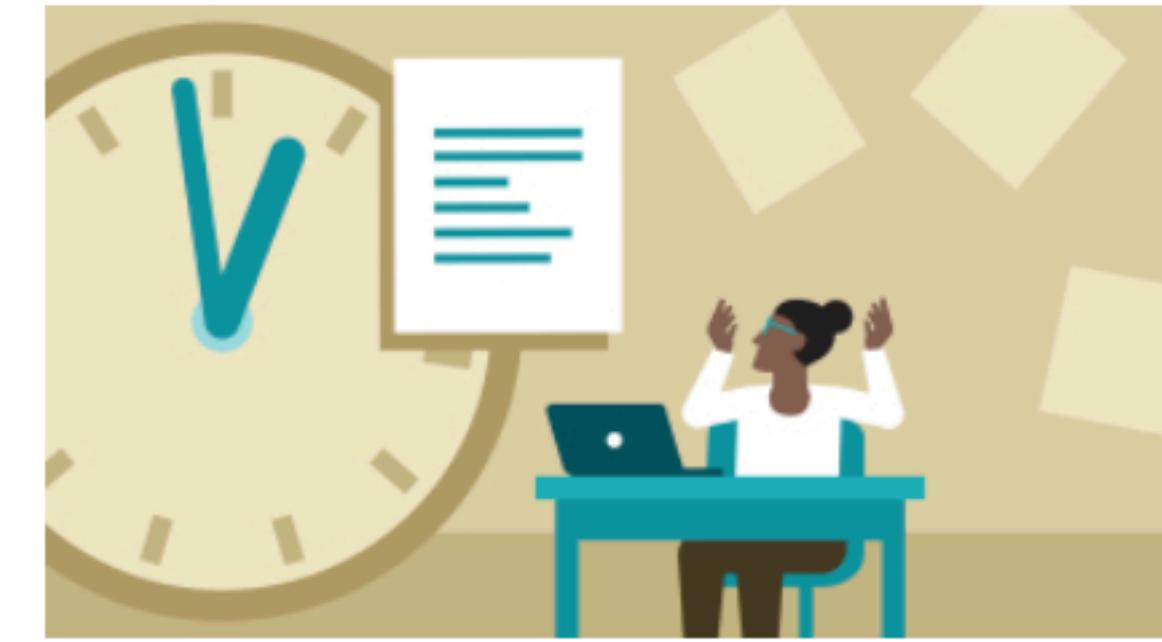


# Assignment 1

## Specification

Assignment 1  
Specification



Concept, detail and grading  
spectrum for Assignment 1

## Point of Interest

A point of interest, or POI, is a specific point location that someone may find useful or interesting.



*"A “point of interest” (POI) is a location for which information is available. A POI can be as simple as a set of coordinates, a name, and a unique identifier, or more complex such as a three-dimensional model of a building with names in multiple languages, information about opening and closing hours, and a civic address. POI data has many applications, including augmented reality browsers, location-based social networking games, geocaching, mapping and navigation systems."*

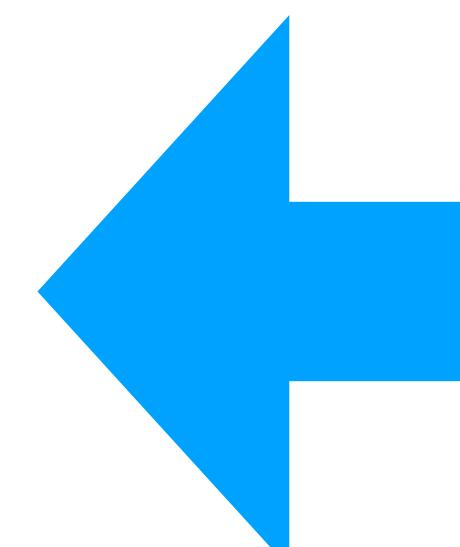
<http://www.opengeospatial.org/projects/groups/poiswg>

[https://en.wikipedia.org/wiki/Point\\_of\\_interest](https://en.wikipedia.org/wiki/Point_of_interest)

[https://en.wikipedia.org/wiki/Point\\_of\\_interest](https://en.wikipedia.org/wiki/Point_of_interest)

# Interesting POIs ....

- Landscape feature
- National monument
- Walk
- Bridge
- Tree
- Ringfort
- River
- Lake
- Forest
- Mountain
- Bog
- Island



Essential Data  
Structure & Support  
Service

Richer Media  
Experience + User  
Management

POI Sharing /  
Community Features

## POI Outline

### POI Core

### POI Enhanced

### POI Community

# POI Core

## POI Characteristics

- Name
- Category
- Description

## Service Features

- Sign up / log in to service
- Create, Read, Update, Delete
- Query
- Group into Categories

# POI Enhanced

## POI Characteristics

- Photos
- Location
- ???

## Service Features

- Show POI Photo(s)
- Show All POI on Map
- Admin Interface
  - Admin user
  - Admin dashboard

# POI Social

## POI Characteristics

- Creator / Editor
- Rating
- Reviews
- Discussion
- Now

## App Features

- Share
- Review & Rate
- Notice Board
- Live Updates

# POI Roadmap

Assignment 1

POI Web Application V1

Assignment 2

POI Web Service V1

POI Web Application V2

Assignment

POI React

Skills Studio 2

Assignment 1

POI Mobile V1

Mobile  
App  
Development

Assignment 2

POI Mobile V2

Enterprise  
Web  
Development

Implement POI Core + selected features of POI Enhanced

Support the following User Management Features:

## Assignment 1

- Sign up / Login in / Delete Account
- Simple User Admin Dashboard

Support the following POI Characteristics:

- Name, Description, Category, Location, Image

Support the following app features:

- Create, Read, Update & Delete POIs
- Organise POIs into categories
- Manage POI Images

POI Web Application V1

UI

handlebars

semantic-ui

jquery

Components

boom

dotenv

cloudinary

mongoose

Framework

hapi

insert

hapi-auth-cookie

vision

POI  
Technology  
Stack

Platforms

node

mongodb

cloudinary

Infrastructure

heroku

mlab

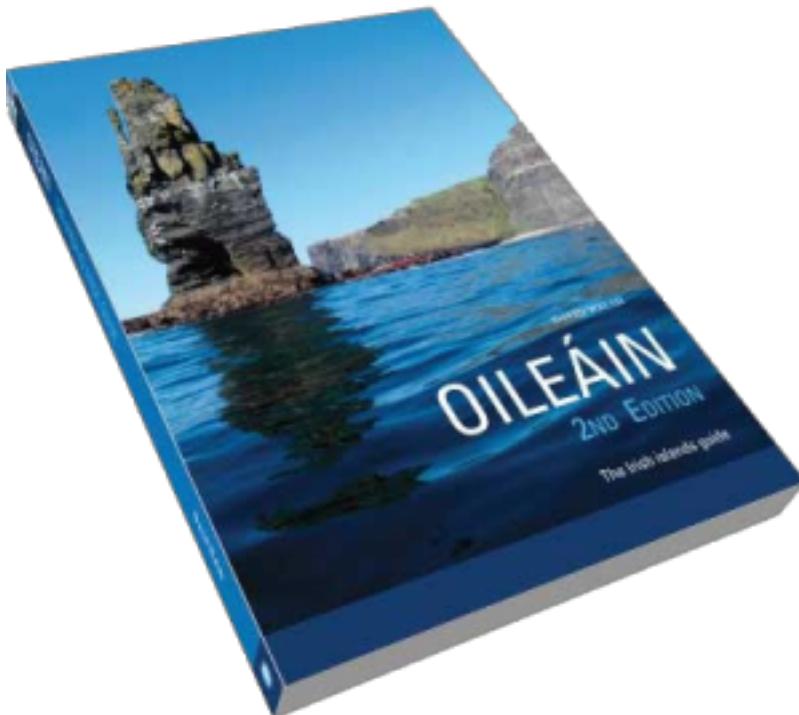
glitch

	User Accounts	POI Model	POI Features	Deployment	Git
baseline	Signup / Login	Name, Description	Create / Read POIs	Localhost	git + commit History
good	Authentication/ Cookies	Image	Update/Delete POI Upload / View Image	mlab	quality readme
excellent	User Settings / Delete User Account / Basic Admin	Categories	Create / View Categories	Glitch	Tagged releases
outstanding	Admin Dashboard + simple analytics	Location Multiple Images	View/Update location (lat/lng) Upload & Manage Images	heroku	Develop /Feature / Master branch

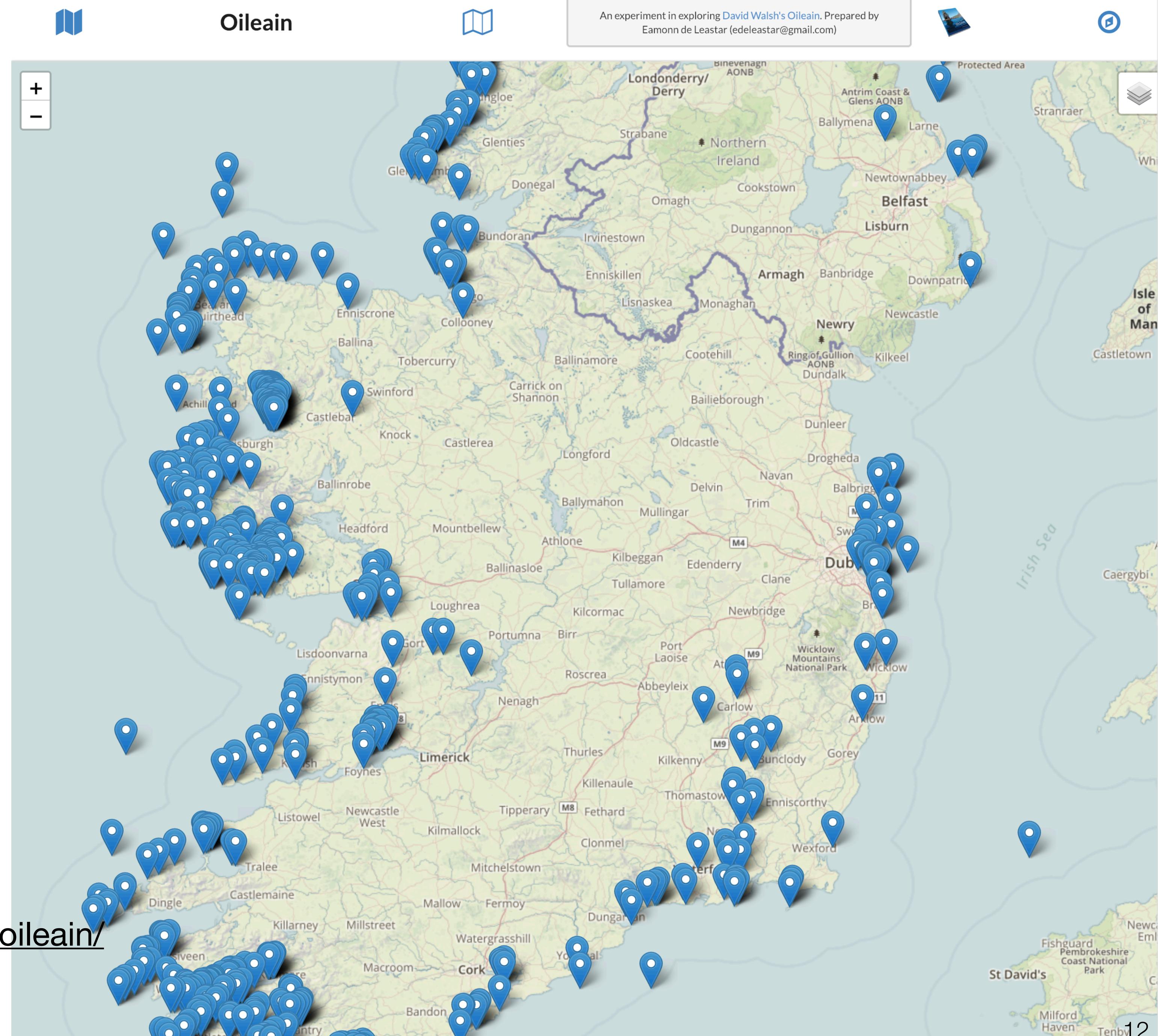
# POI Data Set: Islands of Ireland

POI Web Application

<https://edeleastar.github.io/oileain>



<http://www.oileain.org/index.php/viewdownload-oileain/>

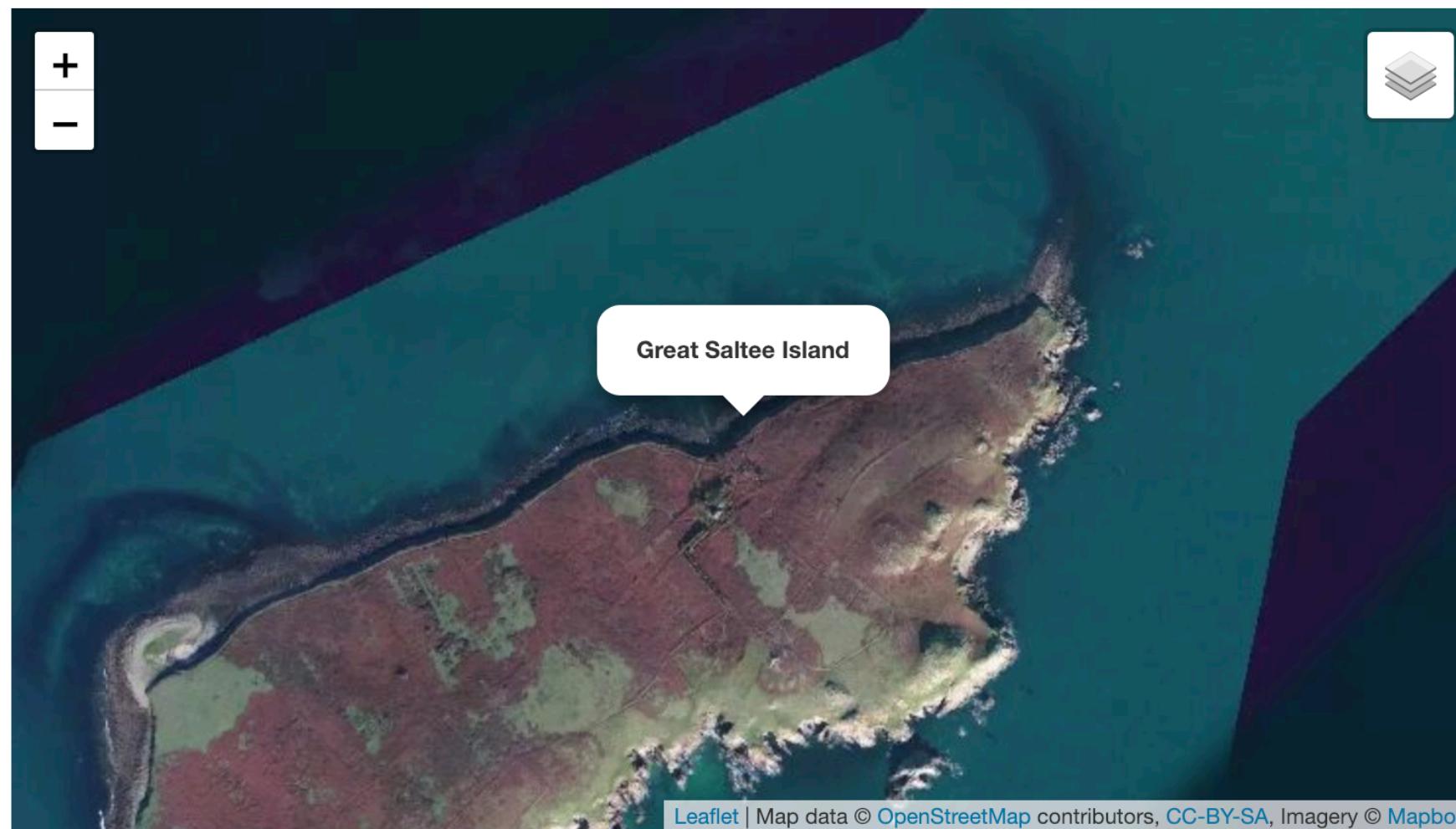




# Great Saltee Island



An experiment in exploring David Walsh's Oileain. Prepared by Eamonn de Leastar (edeleastar@gmail.com)



[Leaflet](#) | Map data © OpenStreetMap contributors, CC-BY-SA, Imagery © Mapbox

GPS-compatible

Latitude	52.12079534
Longitude	-6.61081916

Transverse Mercator

Eastings	695129.764
Norhtings	97400

Full Irish Grid

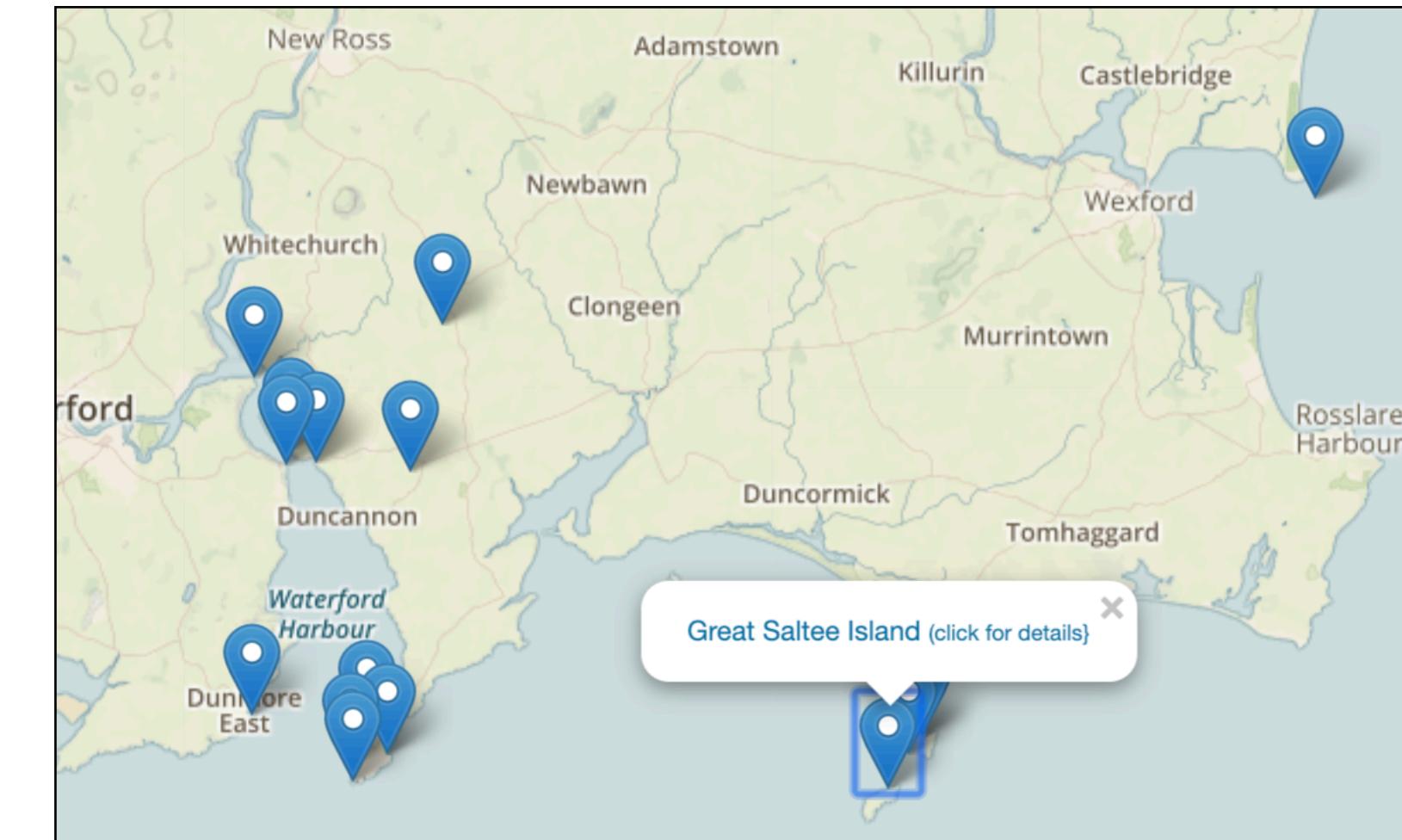
Eastings	295200
Norhtings	97400

Irish Grid

Sheet	X
Eastings	952
Norhtings	974

**Great Saltee Island X952-974 Sheet 77** This is a beautiful island. Grazed and easily walked or camped on, this island is lovely and deservedly popular with Irish paddlers. The island is a famed bird-watching spot, and is often inhabited by birding visitors in season, mainly spring and autumn. Once inhabited by 20 people, the island became uninhabited relatively early by Irish island standards. There are monuments and references to Prince Michael of Saltee on the island. He bought the island in 1943, crowned himself Prince in 1972, and died in 1998. Renewed interest in the island by his extended family has resulted in some of the scrub being removed around the remains of the old rick yard and the corn stands are more clearly visible. Landing Land at X952-974 on the N side, E of the middle. The main landing area has recently been improved with a channel having been cleared through the boulder beach, which in June 2003 gave a welcome sandy strip even at the lower stages of the tide. There are steps above to a house in trees. This landing is sheltered from the SW by the headland.

members of the family have owned the island for long weekends, or perhaps longer periods, flying the Prince of Saltee flag when the family are on the island by 1630. Circumnavigation gives a good view of the island, but beware the cliffs and the sea conditions at the western end.



[Great Saltee Island \(click for details\)](#)

# Illaunroe



An experiment in exploring David Walsh's Oileain. Prepared by Eamonn de Leastar (edeleastar@gmail.com)



North East

East Coast

South Coast

Mid West

Carrig Island

Foynes Island

Inishmurry

Inishtubbrid

Canon Island

Inishloe

Blackthorn Islands

Doon Island

Inishmacowney

Illaunbeg or O'Donnell's Island

Shore Island

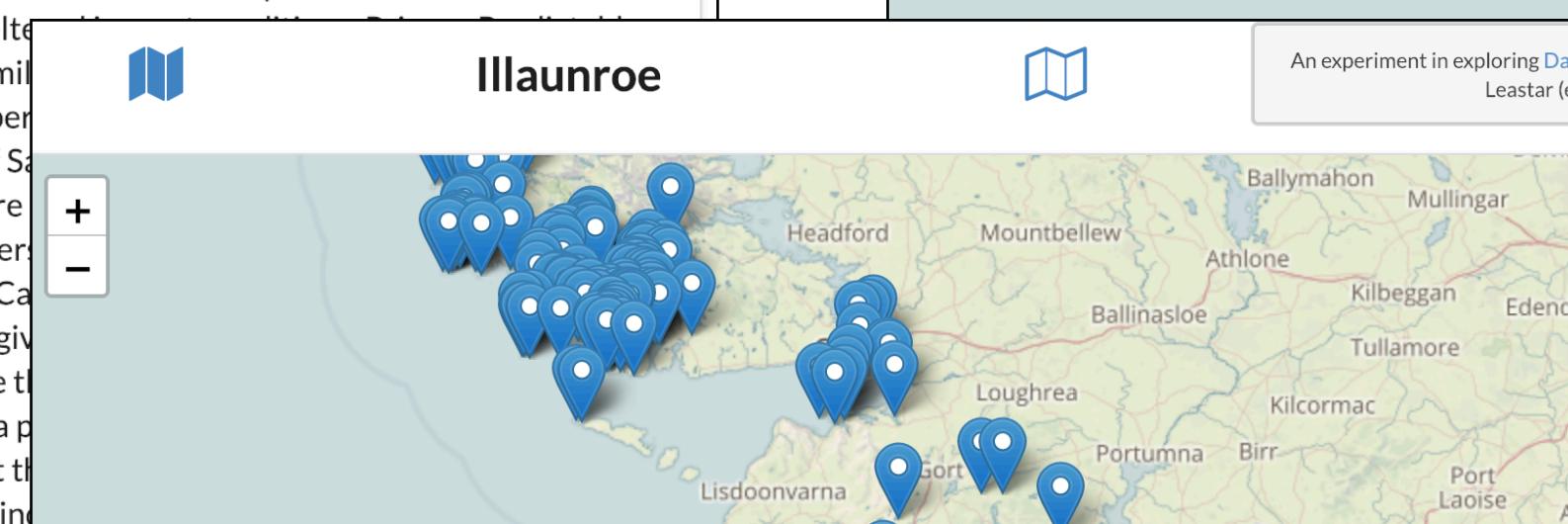
Feenish

Deenish Island

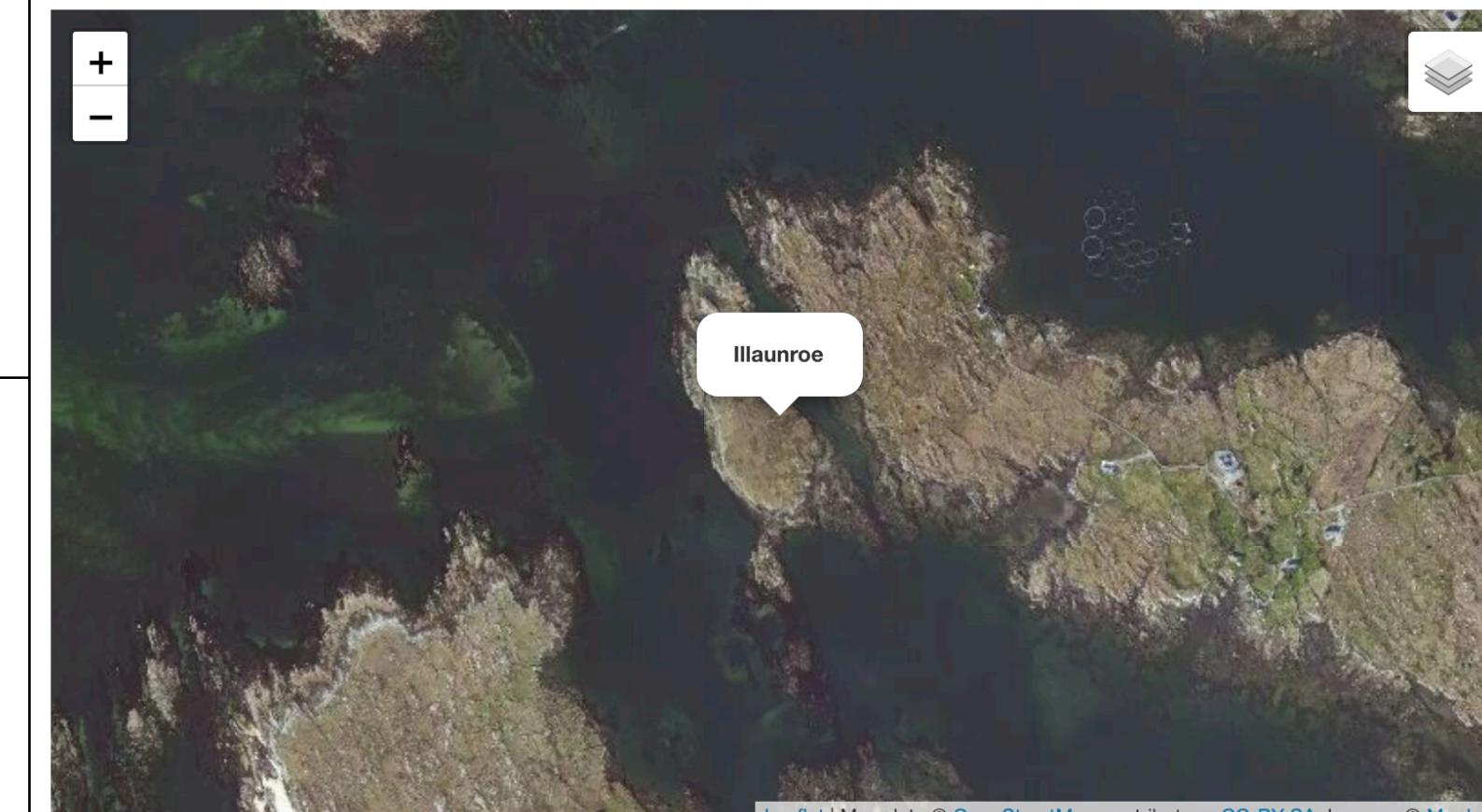
Deer Island

Coney Island

Inishdadraum



**Illaunroe L860-276 Sheet 44** This is a small island, altogether, gorse, ferns, heather. It is a reasonable camping spot in North Connacht.



[Leaflet](#) | Map data © OpenStreetMap contributors, CC-BY-SA, Imagery © Mapbox

GPS-compatible

Latitude	53.28669416
Longitude	-9.71010917

Transverse Mercator

Eastings	485975.328
Norhtings	227600

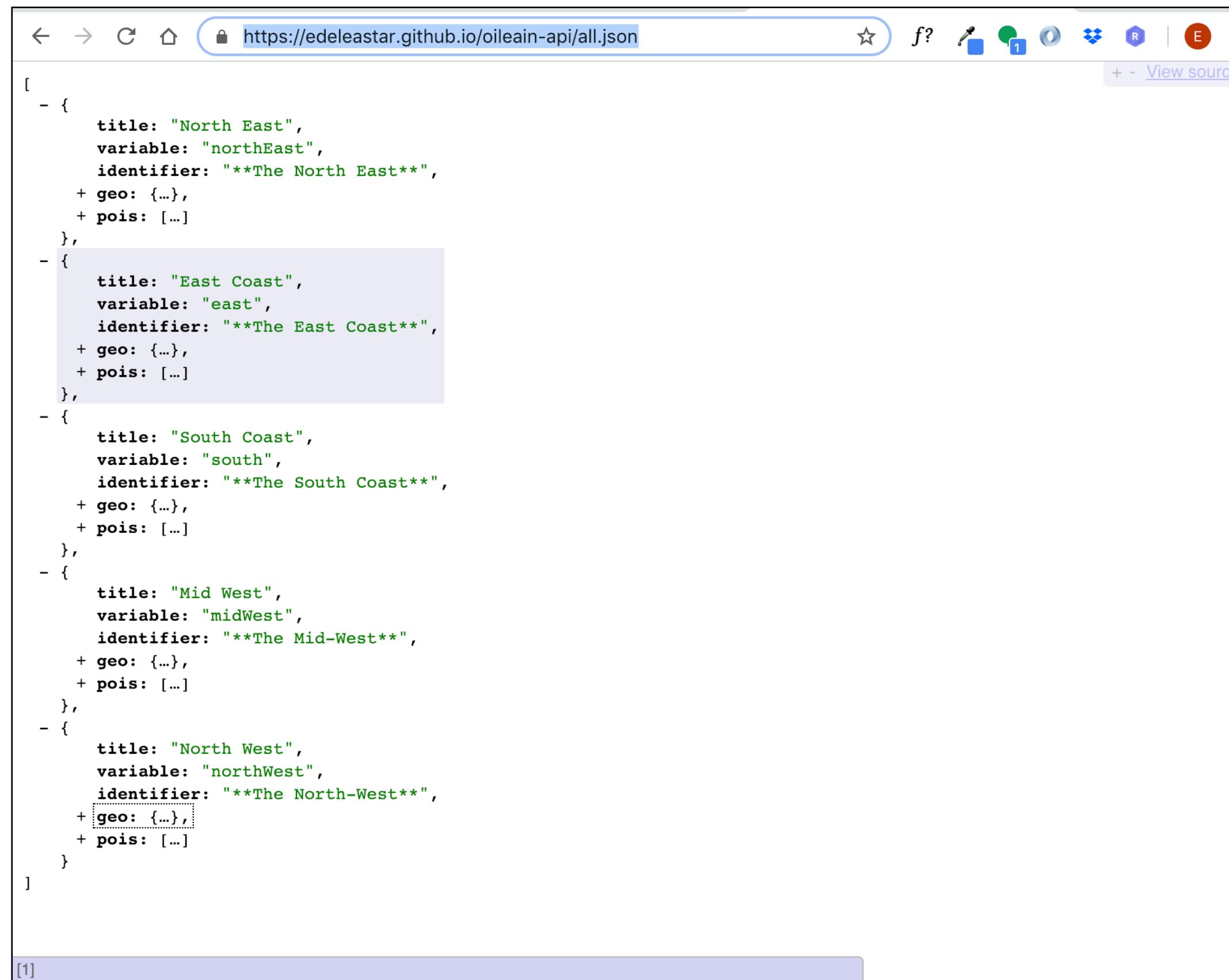
Full Irish Grid

Irish Grid

# Oileain app Inspiration for V2 (not V1)

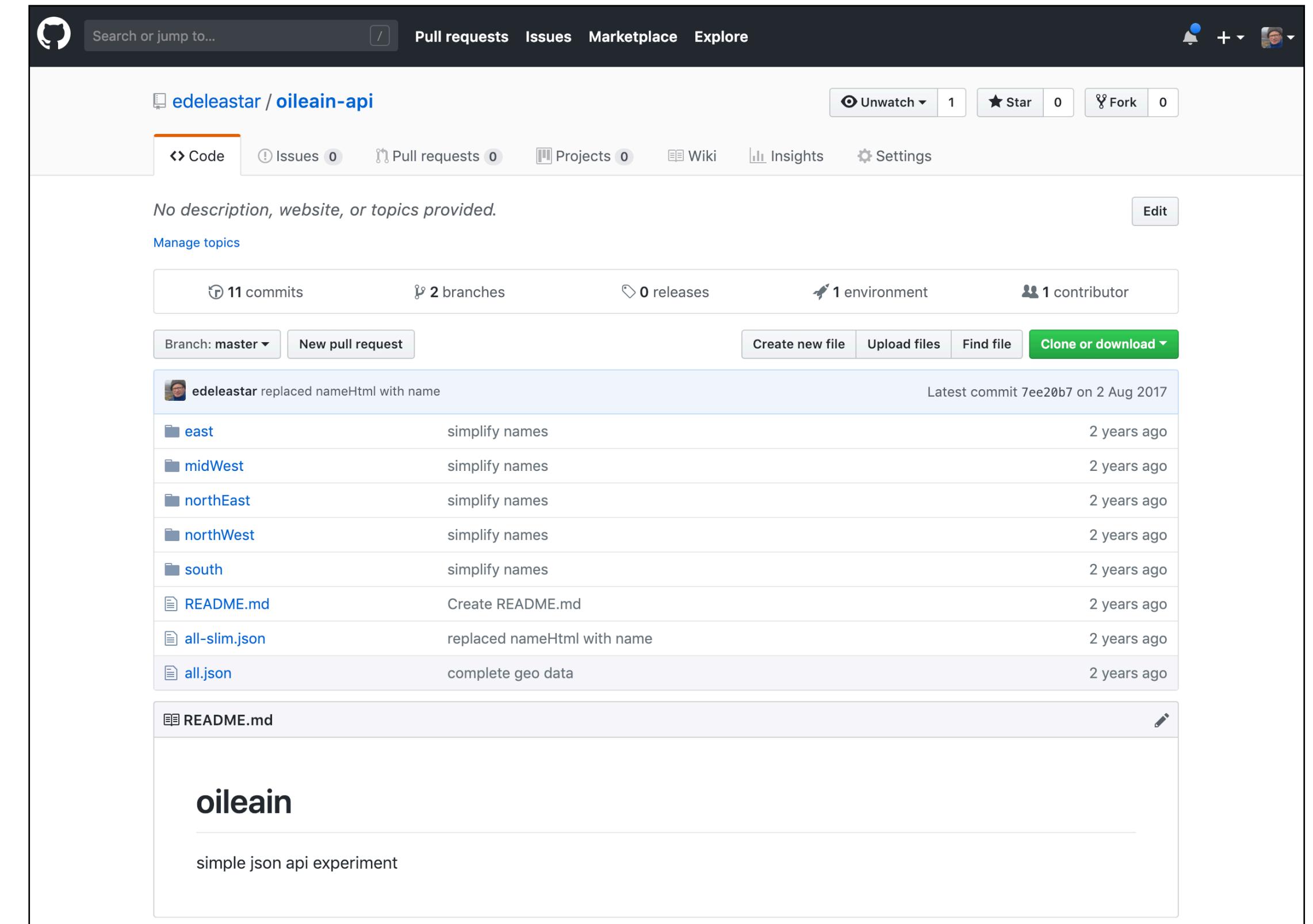
# Data set in JSON format

<https://edeleastar.github.io/oileain-api/all.json>



```
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    "+ geo: {...},  
    + pois: [...]  
  },  
  {  
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    "variable": "east",  
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    "+ geo: {...},  
    + pois: [...]  
  }  
]
```

<https://github.com/edeleastar/oileain-api>



# Data set in Text format

not be treated lightly. Eddies on the Donegal side run from Warren Point to Moville and are usable on both flood and ebb. Moville HW is 3:50 after Belfast.

The Narrows		
Direction	Time	Speed
In	3:00 after Belfast HW	3.5kn
Out	3:00 before Belfast HW	3.5kn

The ebb begins an hour earlier at Magilligan Point. The Spanish Armada The *Trinidad Valencera* hit a reef of Inishowen and came ashore East of Lough Foyle. Its crew of 450 mostly got off safely. Surrounded by English soldiers they eventually surrendered. 36 were ransomed and the rest were put to death. **Downhill** C753-362  
Sheet 4 There is public access at the extreme E end of Benone Beach at a point called Downhill Strand. The Downhill Hotel was closed and demolished. An apartment block now fills the gap. Parking and toilets are beside the apartments and access is by a stream through an archway under the railway. This spot is popular with anglers. The rocky area to the E of the prominent Mussenden Temple at C758-363 is loose basalt, eroded to provide caves and arches. Fulmar and Kittiwake thrive on the sewerage outfall. There is good access and parking at Castlerock village itself at C766-365, where there is parking and toilets at the beach access point. **County Antrim** Tidal overview On the north coast, the tide generally turns west at Belfast HW and east at Belfast LW. The tides are complex, particularly around Rathlin and should be studied carefully. Tides flow strongly at the headlands but there are usable eddies between. **River Bann** C783-367 Sheet 4 To the E of Castlerock village is the Bar

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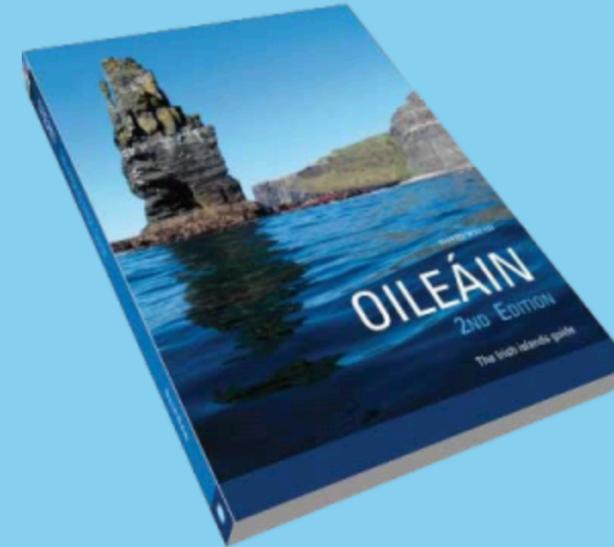
Photographs 2004 trips ISKA

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