# Package 'oceanic'

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Type Package
Title Location Identify Tool
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Description Determine the sea area where the fishing boat operates.  The latitude and longitude of geographic coordinates are used to match oceanic areas and economic sea areas.  You can plot the distribution map with dotplot() function.  Please refer to Flanders Marine Institute (2020) <doi:10.14284 403="">.</doi:10.14284>
License GPL (>= 2)
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dotplot dotplot

## **Description**

This function allows you to draw data distribution geographically from a numeric vector.

## Usage

```
dotplot(
   lona,
   lata,
   map = "ALL",
   grid = FALSE,
   color = "#FF0000",
   size = 1,
   shape = 16
)
```

## Arguments

```
Input the longitude.

Input the latitude.

map default is "ALL", Other possible options is "PAC", "IND" and "ATL".

grid default is FALSE, when TRUE show the 5 degree grid.

color default is "#FF0000", define the color of points.

size default is 1, define the size of points.

shape default is 16, define the shape of points.
```

#### Value

the plot of lona and lata.

```
dotplot(141,23)
```

eez\_rg 3

eez\_rg

Eez Coefficients

## Description

Predictor feature coefficients as published in paper.

## Usage

```
eez_rg
```

## **Format**

```
eez_rg data.frame with 2 variables: geneName, coef
```

idfcode

idfcode

## Description

This function allows you to convert the location to 4 digital code

## Usage

```
idfcode(lon, lat)
```

## **Arguments**

lon Input the longitude.lat Input the latitude.

```
idfcode(22,-5)
```

idfland

idfeez

idfeez

## Description

This function allows you to identify location in which EEZ from a numeric vector.

## Usage

```
idfeez(lon, lat, ac = TRUE)
```

## **Arguments**

lon Input the longitude.lat Input the latitude.

ac logical. If TRUE will return full name of EEZ.

## **Examples**

```
idfeez(141,23)
```

idfland

idfland

## Description

This function allows you to identify location in which land or ocean.

## Usage

```
idfland(lon, lat)
```

## Arguments

Input the longitude.Input the latitude.

```
idfland(22,-5)
```

idfocean 5

idfocean

## Description

Return The Pacific Ocean(PAC), Indian Ocean(IND) or Atlantic Ocean(ATL) of your coordinate.

## Usage

```
idfocean(lon, lat)
```

## **Arguments**

Input the longitude.Input the latitude.

## Value

the ocean of lon and lat.

## **Examples**

```
idfocean(125,20)
```

idfport

idfport

idfocean

## Description

This function allows you to identify port name from a numeric vector.

## Usage

```
idfport(lon, lat)
```

## Arguments

lon Input the longitude.lat Input the latitude.

```
idfport(121.8006,25.14065)
```

6 sixtytoten

port\_sf

port position

## Description

define the position of port in the world

## Usage

port\_sf

#### **Format**

```
port_sf data.frame with 2 variables: row.names, id
```

sixtytoten

sixtytoten

## Description

This function allows you to transfer the coordinate system from sexagesimal to decimal

## Usage

```
sixtytoten(num)
```

## Arguments

num

Input a value of longitude or latitude.

```
sixtytoten(121.49)
```

## **Index**