

# Package ‘oceanic’

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**Type** Package

**Title** Location Identify Tool

**Version** 0.1.3

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**Author** shiao chih hao [aut, cre, ctb],  
chang shu ting [aut, ctb]

**Maintainer** shiao chih hao <chihhao@ofdc.org.tw>

**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](https://doi.org/10.14284/403)>.

**License** GPL (>= 2)

**Depends** R (>= 3.5.0)

**Imports** sf, sp, rgdal, broom, rgeos, ggplot2, maps, spData

**Encoding** UTF-8

**RoxygenNote** 7.1.2

**LazyData** true

**Collate** 'idfocean.R' 'idfeez.R' 'data.R' 'dotplot.R' 'idfland.R'  
'idfcode.R'

**NeedsCompilation** no

**Repository** CRAN

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dotplot	<i>dotplot</i>
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### Description

This function allows you to draw data distribution geographically with EEZ map Function from a numeric vector.

### Usage

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

### Arguments

lona	Input the longitude.
lata	Input the latitude.
map	default is "ALL", Other possible options is "PAC", "IND" and "ATL".
eez	default is TRUE, when TRUE show the EEZ map.
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.

### Examples

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

---

eez_rg	<i>Eez Coefficients</i>
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**Description**

Predictor feature coefficients as published in paper.

**Usage**

```
eez_rg
```

**Format**

A data.frame with 2 variables: geneName, coef

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idfcode	<i>idfcode</i>
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**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.

**Examples**

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

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**

lon	Input the longitude.
lat	Input the latitude.

**Examples**

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

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<code>idfocean</code>	<i>idfocean</i>
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**Description**

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

**Usage**

`idfocean(lon, lat)`

**Arguments**

<code>lon</code>	Input the longitude.
<code>lat</code>	Input the latitude.

**Value**

the ocean of lon and lat.

**Examples**

`idfocean(125,20)`

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