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>.

License GPL (>= 2)

Depends R (>= 3.5.0)

Imports sf, broom, ggplot2, maps, methods

Encoding UTF-8

RoxygenNote 7.3.3

LazyData true

Collate 'idfocean.R' 'idfeez.R' 'data.R' 'dotplot.R'

NeedsCompilation no

Repository CRAN

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Contents

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

lona	Input the longitude.
lata	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.

Examples

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

`eez_rg` *Exclusive Economic Zones (EEZ)*

Description

A spatial dataset containing the boundaries of Exclusive Economic Zones.

Usage

```
eez_rg
```

Format

eez_rg is an sf object with 16 variables:

OBJECTID Internal identifier

EEZ Name of the EEZ area

Country Country name

ID Identifier

Sovereign Sovereign state

Remarks Additional remarks

Sov_ID Sovereign ID

EEZ_ID EEZ ID

ISO_3digit ISO 3-digit country code

MRGID Marine Regions Gazetteer Identifier

Date_chang Date of change

Area_m2 Area in square meters

Longitude Longitude of centroid

Latitude Latitude of centroid

MRGID_EEZ EEZ MRGID

geometry Spatial geometry

Source

Flanders Marine Institute (2020). MarineRegions.org. <doi:10.14284/403>

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	A numeric vector of longitudes.
lat	A numeric vector of latitudes.
ac	logical. If TRUE will return full name of EEZ.

Examples

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

idfocean *idfocean*

Description

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

Usage

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

Arguments

lon	A numeric vector of longitudes.
lat	A numeric vector of latitudes.

Value

A character vector of the ocean ("PAC", "IND", "ATL", or "-") for each coordinate.

Examples

```
idfocean(125,20)
idfocean(c(125, 40), c(20, -10))
```

Index