Package: cconvention (via r-universe)

November 5, 2026

Title CCAMLR Convention

Version 0.0.0.9000

Description Provides topologically sound spatial structures for the CCAMLR convention. The Convention on the Conservation of Antarctic Marine Living Resources describes a system of spatial regions in precise terms. This package provides means of capturing that information and providing spatial map structures with it.

Depends R (>= 3.3.0)

Imports geosphere, raster, sp

Suggests covr, Combin8R, knitr, maptools, rgdal, rgeos, rmarkdown, stringi, testthat

License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 7.0.2

VignetteBuilder knitr

Remotes SWotherspoon/Combin8R

Config/pak/sysreqs libgdal-dev gdal-bin libgeos-dev libproj-dev libsqlite3-dev

Repository https://australianantarcticdivision.r-universe.dev

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RemoteUrl https://github.com/AustralianAntarcticDivision/cconvention

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Contents

densifyMat 2
division 2

Index **4**

densifyMat *Add vertices to a linear path to ensure curvature*

Description

This function takes a matrix of coordinates in longlat that define a pathy, and returns a denser matrix with more vertices based on a minimum allowed distance.

Usage

```
densifyMat(x, minm = 1852 * 10)
```

Arguments

x	matrix of coordinates, long/lat
minm	default distance in metres on a great cicle

Details

The function assumes each segment is a great circle, on the Vincenty ellipsoid distVincentyEllipsoid.

Value

matrix

division *Define polygon object of CCAMLR divisions.*

Description

Currently only builds objects for 58.4.1, ensuring they are topologically clean and with sufficient density for fishing impact analysis.

Usage

```
division(name = "58.4.1", intsct = NULL)
```

Arguments

name	for future use, currently ignored
intsct	optional poylgon object to use for cropping via intersection

Value

SpatialPolygonsDataFrame

Examples

```
## Not run:
#cm <- readOGR(file.path(dp, "data", "add_ver6"), "cst01_polygon")
#cmu <- gUnionCascaded(cm)
library(aceecostats)
subarea <- division(intsct = aes_region)

## End(Not run)
```

Index

densifyMat, 2
distVincentyEllipsoid, *2*
division, 2