

Package ‘edm1’

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Title For manipulating geographical data

Version 2.0.0.0

Description

Provides a function to calculate the distance between geographical points and another function that classifies a set of points according to their distance to another set of points (landmark).

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Encoding UTF-8

Roxygen list(markdown = TRUE)

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Imports stringr,
stringi,
dplyr

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geo_min	<i>geo_min</i>
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Description

Return a dataframe containing the nearest geographical points (row) according to established geographical points (column).

Usage

```
geo_min(inpt_datf, established_datf)
```

Arguments

`inpt_datf` is the input dataframe of the set of geographical points to be classified, its first column is for latitude, the second for the longitude and the third, if exists, is for the altitude. Each point is one row.

`established_datf` is the dataframe containing the coordinates of the established geographical points

Examples

```

in_ <- data.frame(c(11, 33, 55), c(113, -143, 167))

in2_ <- data.frame(c(12, 55), c(115, 165))

print(geo_min(inpt_datf=in_, established_datf=in2_))

#           X1           X2
#1    245.266         NA
#2 24200.143         NA
#3           NA 127.7004

in_ <- data.frame(c(51, 23, 55), c(113, -143, 167), c(6, 5, 1))

in2_ <- data.frame(c(12, 55), c(115, 165), c(2, 5))

print(geo_min(inpt_datf=in_, established_datf=in2_))

#           X1           X2
#1           NA 4343.720
#2 26465.63         NA
#3           NA 5825.517

```

globe

globe

Description

Allow to calculate the distances between a set of geographical points and another established geographical point. If the altitude is not filled, so the result returned won't take in count the altitude.

Usage

```
globe(lat_f, long_f, alt_f = NA, lat_n, long_n, alt_n = NA)
```

Arguments

lat_f	is the latitude of the established geographical point
long_f	is the longitude of the established geographical point
alt_f	is the altitude of the established geographical point, defaults to NA
lat_n	is a vector containing the latitude of the set of points
long_n	is a vector containing the longitude of the set of points
alt_n	is a vector containing the altitude of the set of points, defaults to NA

Examples

```

print(globe(lat_f=23, long_f=112, alt_f=NA, lat_n=c(2, 82), long_n=c(165, -55), alt_n=NA))

#[1] 6342.844 7059.080

```

```
print(globe(lat_f=23, long_f=112, alt_f=8, lat_n=c(2, 82), long_n=c(165, -55), alt_n=c(8,  
#[1] 6342.844 7059.087
```

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