Package ‘oz’

December 8, 2016

Version 1.0-21

Title Plot the Australian Coastline and States

Description Functions for plotting Australia's coastline and state boundaries.

Imports graphics

License GPL-2

NeedsCompilation no

Author Bill Venables [aut] (S original),
   Kurt Hornik [aut, cre] (R port)

Maintainer Kurt Hornik <Kurt.Hornik@R-project.org>

Repository CRAN

Date/Publication 2016-12-08 20:22:35

R topics documented:

  oz ................................................................. 1
  oz-states ......................................................... 3

Index

---

oz  Plot the Australian Coastline and States

Description

Plot the Australian coastline and states.
Usage

oz(states = TRUE, coast = TRUE, xlim = NULL,
    ylim = NULL, add = FALSE, ar = 1, eps = 0.25,
    sections = NULL, visible = NULL, ...)

ozRegion(states = TRUE, coast = TRUE, xlim = NULL,
    ylim = NULL, eps = 0.25,
    sections = NULL, visible = NULL)

Arguments

states  logical flag: include mainland internal state boundaries?
coast   logical flag: include coastline?
xlim    optional limits for the x-axis (longitude).
ylim    optional limits for the y-axis (latitude). (N.B. all latitudes for Australia are south, and hence are NEGATIVE.)
add     logical flag. If TRUE, the plot is superimposed on an existing plot. Otherwise, a new plot is generated.
ar      aspect ratio: longitude to latitude.
eps     If sections (q.v.) is specified explicitly, the plot is enlarged four ways by this amount (degrees).
sections integer vector specifying which sections of the plot are to be included in the range calculation. The sections are as follows: 1-7, coastlines of WA(1), NT(2), QLD(3), NSW(4), VIC(5), TAS(6) and SA(7) respectively; sections 8-16 are internal mainland state boundaries: SA-WA(8), WA-NT(9), NT-SA(10), NT-QLD(11), QLD-SA(12), QLD-NSW(13), NSW-SA(14), NSW-VIC(15), VIC-SA(16).
visible integer vector specifying which of the sections are actually to appear on the plot.
... optional arguments which will be passed through lines.

Graphical parameters (see par()) may also be supplied as arguments to this function.

Value

ozRegion returns an object of class "ozRegion", which is a list with the following elements: rangex and rangey, giving the range of values to be plotted; and lines, a list of lists, where each sub-list describes a line to draw via numeric elements x and y.

Examples

oz() # the lot
oz(states=FALSE) # coastlines only
oz(sections=6) # Tasmania
oz(sections=c(7,8,10,12,14,16)) # South Australia
oz(sections=c(3,11:13), visible=c(3,13))# plot Queensland, but show just # coast and border with NSW.
oz-states  Plot Specific Australian States

Description

Plot the named Australian state along with its coastline.

Usage

nsw(...)
nqld(...)
sa(...)
tas(...)
vic(...)
wq(...)

Arguments

... arguments to be passed on to oz.
Index

*Topic hplot
  oz, 1
  oz-states, 3

nsw (oz-states), 3
nt (oz-states), 3

oz, 1, 3
oz-states, 3
ozRegion (oz), 1

qld (oz-states), 3
sa (oz-states), 3
tas (oz-states), 3
vic (oz-states), 3
wa (oz-states), 3