

Package: oz (via r-universe)

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Title Plot the Australian Coastline and States

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

Imports graphics

License GPL-2

NeedsCompilation no

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oz	<i>Plot the Australian Coastline and States</i>
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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(...)  
nt(...)  
qld(...)  
sa(...)  
tas(...)  
vic(...)  
wa(...)
```

Arguments

... arguments to be passed on to `oz`.

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