

Package ‘rpdo’

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Type Package

Title Pacific Decadal Oscillation Index

Version 0.0.1

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Description Monthly Pacific Decadal Oscillation (PDO) index values from January 1900 to present.

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URL <https://github.com/poissonconsulting/rpdo>

LazyData true

Depends R (>= 3.2.2)

Suggests curl (>= 0.9.2), magrittr (>= 1.5), readr (>= 0.1.1), tidyr (>= 0.2.0), dplyr (>= 0.4.2), devtools (>= 1.8.0), ggplot2 (>= 1.0.1)

NeedsCompilation no

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pdo

Pacific Decadal Oscillation Index

Description

Monthly Pacific Decadal Oscillation (PDO) index values from January 1900 to present.

Usage

pdo

Format

A data.frame:

Year The year as an integer.

Month The month as an integer.

PDO The Pacific Decadal Oscillation index as a numeric.

Details

Updated standardized values for the PDO index, derived as the leading PC of monthly SST anomalies in the North Pacific Ocean, poleward of 20N. The monthly mean global average SST anomalies are removed to separate this pattern of variability from any "global warming" signal that may be present in the data.

For more details, see:

Zhang, Y., J.M. Wallace, D.S. Battisti, 1997: ENSO-like interdecadal variability: 1900-93. *J. Climate*, 10, 1004-1020.

Mantua, N.J. and S.R. Hare, Y. Zhang, J.M. Wallace, and R.C. Francis, 1997: A Pacific interdecadal climate oscillation with impacts on salmon production. *Bulletin of the American Meteorological Society*, 78, pp. 1069-1079. (available via the internet at url: <http://www.atmos.washington.edu/~mantua/abst.PDO.html>)

Data sources for this index are: UKMO Historical SST data set for 1900-81; Reynolds' Optimally Interpolated SST (V1) for January 1982-Dec 2001 *** OI SST Version 2 (V2) beginning January 2002 -

See Also

<http://research.jisao.washington.edu/pdo/PDO.latest>

Examples

```
library(magrittr)
library(dplyr)
library(ggplot2)

data(pdo)
pdo %<>% group_by(Year) %>% summarise(PDO = mean(PDO))
ggplot(data = pdo, aes(x = Year, y = PDO)) + geom_line()
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