# Package 'RClimChange'

June 28, 2022

Julie 26, 2022
Type Package
<b>Title</b> A package to manipulate Global Climate Models from NCCS THREDDS NEX-GDDP-CMIP6
<b>Version</b> 3.1.0
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Maintainer Harold Llauca <a href="https://doi.org/10.2016/job.pe">https://doi.org/10.2016/job.pe</a>
<b>Description</b> This package contain simple tools for downloading and subsetting daily GCM data from CMIP6.
License GPL (>= 2)
Encoding UTF-8
<b>Depends</b> R ( $>= 3.6$ ),
Imports ncdf4, RCurl, data.table, tictoc
RoxygenNote 7.1.2
RemoteType github
RemoteHost api.github.com
RemoteRepo RClimChange
RemoteUsername hllauca
RemoteRef HEAD
RemoteSha ac2d2cfde0adefa02212b5b05501d3d03afb687e
GithubRepo RClimChange
GithubUsername hllauca
GithubRef HEAD
<b>GithubSHA1</b> ac2d2cfde0adefa02212b5b05501d3d03afb687e
NeedsCompilation no
R topics documented:
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gcm_download_data Dov CM.	nload CMIP6 daily data from NCCS THREDDS NEX-GDDP-P6.
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## Description

Download CMIP6 daily data from NCCS THREDDS NEX-GDDP-CMIP6.

## Usage

```
gcm_download_data(
  location,
  model = NULL,
  scenario,
  variable,
  years,
  roi,
  method = "curl"
)
```

## Arguments

location	Work directory to store downloaded data.
model	Model names to download. If NULL, all available models will be selected.
scenario	Choose the scenario to be downloaded ('historical','ssp126','ssp245', 'ssp370',or 'ssp585). Some models could haven't all scenarios.
variable	Choose the variable to be downloaded ('hurs','huss','pr','rlds','rsds','sfcWind','tas','tasmax', or 'tasmin').
years	Choose data years to be downloaded (1950:2014 for 'historical' and 2015:2100 for 'ssp126', 'ssp245', 'ssp370' and 'ssp585').
roi	Vector of coordinates for subsetting data (xmin, xmax, ymin, ymax). If NULL, original extension data will be downloaded.
method	Method to be used for downloading files. Current download methods are 'internal', 'wininet' (Windows only), 'libcurl', 'wget' and 'curl'. The 'curl' method is recommended for Windows users.

## Value

CMIP6 daily data (in netCDF format).

## **Examples**

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years=1990, roi=c(-86,-66,-20,2), method='curl')

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