# Package 'RClimChange'

July 5, 2022	
Type Package	
<b>Title</b> A package to manipulate Global Climate Models from NCCS THREDDS NEX-GDDP-CMIP6	
Version 3.1.0	
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<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	
<b>RemoteSha</b> b27b3a7904fc1621057052226a0e54500cf7c53e	
GithubRepo RClimChange	
GithubUsername hllauca	
GithubRef HEAD	
GithubSHA1 b27b3a7904fc1621057052226a0e54500cf7c53e	
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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