Package 'RClimChange'

August 8, 2022	
Type Package	
Title A package to manipulate Global Climate Models from NCCS THREDDS NEX-GDDP-CMIP6	
Version 3.2.1	
Author Harold Llauca <hllauca@senamhi.gob.pe></hllauca@senamhi.gob.pe>	
Maintainer Harold Llauca https://doi.org/10.2016/job.pe	
Description This package contain simple tools for downloading and subsetting daily GCM data from CMIP6.	
License GPL (>= 2)	
Encoding UTF-8	
Depends R ($>= 3.6$),	
Imports ncdf4, RCurl, tictoc	
RoxygenNote 7.1.2	
RemoteType github	
RemoteHost api.github.com	
RemoteRepo RClimChange	
RemoteUsername hllauca	
RemoteRef HEAD	
RemoteSha 86020b200d1c2adb6d5ea1464763d1fe2385ecd9	
GithubRepo RClimChange	
GithubUsername hllauca	
GithubRef HEAD	
GithubSHA1 86020b200d1c2adb6d5ea1464763d1fe2385ecd9	
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

gcm_download_data 3

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

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