Package 'RClimChange'

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Type Package

Title A package to manipulate Global Climate Models from NCCS THREDDS NEX-GDDP-CMIP6
Version 3.1.1
Author Harold Llauca <hllauca@senamhi.gob.pe></hllauca@senamhi.gob.pe>
Maintainer Harold Llauca <hllauca@senamhi.gob.pe></hllauca@senamhi.gob.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 d562b53b4f4cd8379389157c947e57af4ea38d8d
GithubRepo RClimChange
GithubUsername hllauca
GithubRef HEAD
GithubSHA1 d562b53b4f4cd8379389157c947e57af4ea38d8d
NeedsCompilation no
R topics documented:
gcm_download_data
Index 4

2 gcm_download_data

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')

Index

gcm_download_data, 2