# Package 'RClimChange'

October 10, 2022

Type Package
<b>Title</b> A package to manipulate Global Climate Models from NCCS THREDDS NEX-GDDP-CMIP6
Version 3.2.2
Author Harold Llauca <hllauca@senamhi.gob.pe></hllauca@senamhi.gob.pe>
Maintainer Harold Llauca <hllauca@senamhi.gob.pe></hllauca@senamhi.gob.pe>
<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, tictoc
LazyData true
RoxygenNote 7.1.2
R topics documented:  gcm_download_data
Index
gcm_download_data

## Description

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

2 gcm\_download\_data

#### 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 'inter-

nal', 'wininet' (Windows only), 'libcurl', 'wget' and 'curl'. The 'curl' method

is recommended for Windows users.

### Value

CMIP6 daily data (in netCDF format).

### **Examples**

# Index

 ${\tt gcm\_download\_data}, 1$