Package 'RClimChange'

June 27, 2022

Title A package to manipulate Global Climate Models from NCCS THREDDS

Type Package

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')

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