## Package 'RClimChange'

August 22, 2024

Type Package

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

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

### Usage

```
gcm_download_data(
  location,
  model = NULL,
  scenario,
  variable,
  years,
  roi,
  version = NULL,
  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 sub-setting data (xmin, xmax, ymin, ymax). If NULL, original extension data will be downloaded.
version	Select file version. Use NULL, 'v1.1' or 'v1.2' (please read technical notes in NEX website). NULL as default
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**

```
# Load package
require(RClimChange)
```

# Download daily precipitation (in mm/d) from the BCC-CSM2-MR model; for 1990 and the Peruvian domain gcm\_download\_data(location=getwd(),

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```
model='BCC-CSM2-MR',
scenario='historical',
variable='pr',
years=1990,
version='v1.1',
roi=c(-86,-66,-20,2),
method='curl')
```

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