

Package: PEcAn.CLM45 (via r-universe)

November 4, 2024

Type Package

Title PEcAn Package for Integration of CLM4.5 Model

Version 1.7.3.9000

Description The Predictive Ecosystem Carbon Analyzer (PEcAn) is a scientific workflow management tool that is designed to simplify the management of model parameterization, execution, and analysis. The goal of PEcAn is to streamline the interaction between data and models, and to improve the efficacy of scientific investigation. This package provides functions to link the Community Land Model, version 4.5, to PEcAn.

Depends PEcAn.logger, PEcAn.utils

Imports ncd4 (>= 1.15)

Suggests testthat (>= 1.0.2)

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LazyLoad yes

LazyData FALSE

Encoding UTF-8

RoxygenNote 7.3.2

Repository <https://pecanproject.r-universe.dev>

RemoteUrl <https://github.com/PecanProject/pecan>

RemoteRef HEAD

RemoteSha caad7b3f8386df43eaf44f9316459f66ffc69b0b

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met2model.CLM45 *met2model for CLM45*

Description

met2model wrapper for CLM45

Usage

```
met2model.CLM45(
    in.path,
    in.prefix,
    outfolder,
    start_date,
    end_date,
    lst = 0,
    lat,
    lon,
    ...,
    overwrite = FALSE,
    verbose = FALSE
)
```

Arguments

in.path	location on disk where inputs are stored
in.prefix	prefix of input and output files
outfolder	location on disk where outputs will be stored
start_date	the start date of the data to be downloaded (will only use the year part of the date)
end_date	the end date of the data to be downloaded (will only use the year part of the date)
lst	timezone offset to GMT in hours
lat, lon	site coordinates
...	other arguments, currently ignored
overwrite	should existing files be overwritten
verbose	should the function be very verbosefor(year in start_year:end_year)

model2netcdf.CLM45 *Code to convert CLM45 netcdf output into into CF standard*

Description

Code to convert CLM45 netcdf output into into CF standard

Usage

```
model2netcdf.CLM45(outdir, sitelat, sitelon, start_date, end_date)
```

Arguments

outdir	Location of CLM45 model output
sitelat	Latitude of the site
sitelon	Longitude of the site
start_date	Start time of the simulation
end_date	End time of the simulation

Author(s)

Michael Dietze

write.config.CLM45 *Write CLM4.5 configuration files*

Description

Writes config files for use with the Community Land Model model.

Usage

```
write.config.CLM45(defaults, trait.values, settings, run.id)
```

Arguments

defaults	list of defaults to process
trait.values	vector of samples for a given trait
settings	list of settings from pecan settings file
run.id	id of run

Value

none

Author(s)

Mike Dietze

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