Package: PEcAn.LDNDC (via r-universe)

September 18, 2024

Type Package

Title PEcAn package for integration of the LDNDC model

Version 1.0.0.9000

Description This module provides functions to link the (LDNDC) to PEcAn.

Imports dplyr, lubridate, ncdf4, PEcAn.data.atmosphere, PEcAn.data.land, PEcAn.logger, PEcAn.remote, PEcAn.utils (>= 1.4.8), readr, rlang

Suggests testthat (>= 1.0.2)

SystemRequirements LDNDC

OS_type unix

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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 f22a7c4bbc532e4551f7bc9624cef649da317ac1

Contents

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met2model.LDNDC   *Write LDNDC met files*

Description

Converts a met CF file to a model specific met file. The input files are calld <in.path>/<in.prefix>.YYYY.cf

Usage

```
met2model.LDNDC(
  in.path,
  in.prefix,
  outfolder,
  start_date,
  end_date,
  overwrite = FALSE,
  ...
)
```

Arguments

in.path	path on disk where CF file lives
in.prefix	prefix for each file
outfolder	location where model specific output is written.
start_date	start date of the results
end_date	end date of the results
overwrite	logical: replace output files if they already exist?
...	Other arguments

Value

invisible(results)

Author(s)

Henri Kajasilta

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model2netcdf.LDNDC   *Code to convert LDNDC's output into netCDF format*

Description

Convert LDNDC output into the NACP Intercomparison format (ALMA using netCDF)

Usage

```
model2netcdf.LDNDC(
  outdir,
  sitelat,
  sitelon,
  start_date,
  end_date,
  delete.raw = FALSE
)
```

Arguments

outdir	Location of 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
delete.raw	TRUE if raw model results will be deleted

Author(s)

Henri Kajasilta

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write.config.LDNDC   *Write LDNDC configuration files*

Description

Writes a LDNDC config file.

Usage

```
write.config.LDNDC(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

Details

Requires a pft xml object, a list of trait values for a single model run, and the name of the file to create

Value

configuration file for LDNDC for given run

Author(s)

Henri Kajasilta

Index