

Package: PEcAn.PEPRMT (via r-universe)

June 5, 2026

Type Package

Title PEcAn Package for Integration of the PEPRMT Model

Version 0.1.0.9000

Author Abigail Lewis, Patty Oikawa, James Holmquist

Maintainer Abigail Lewis <lewis4@si.edu>

Description This module provides functions to link PEPRMT to PEcAn.

URL <https://pecanproject.github.io>

BugReports <https://github.com/PecanProject/pecan/issues>

Imports dplyr, lubridate (>= 1.6.0), ncdf4 (>= 1.15), PEcAn.logger, PEcAn.remote, PEcAn.utils

Suggests dygraphs, earthdatalogin, imager, rstac, terra, testthat (>= 1.0.2), xts

Enhances PEPRMT

Remotes github::abylewis/PEPRMT-Tidal

License BSD_3_clause + file LICENSE

Copyright Authors

LazyLoad yes

LazyData FALSE

Encoding UTF-8

RoxygenNote 7.3.3

Config/pak/sysreqs libicu-dev libnetcdf-dev libssl-dev libudunits2-dev

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

Date/Publication 2026-06-05 12:13:58 UTC

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

RemoteRef HEAD

RemoteSha 3654c6a1cc83cd02402ca26bd012ed1e111bef1b

RemoteSubdir models/peprmt

Contents

hls2model.PEPRMT	2
met2model.PEPRMT	3
model2netcdf.PEPRMT	4
write.config.PEPRMT	5

Index	6
--------------	----------

hls2model.PEPRMT	<i>hls2model.PEPRMT</i>
------------------	-------------------------

Description

hls2model for PEPRMT

Usage

```
hls2model.PEPRMT(
    in.path,
    in.prefix,
    outfolder,
    start_date,
    end_date,
    lat,
    lon,
    overwrite = FALSE,
    verbose = FALSE,
    ...
)
```

Arguments

<code>in.path</code>	location on disk where inputs are stored
<code>in.prefix</code>	prefix of input and output files
<code>outfolder</code>	location on disk where outputs will be stored
<code>start_date, end_date</code>	the start and end dates of the data to be downloaded (will only use the year part of the date)
<code>lat, lon</code>	latitude and longitude in degrees
<code>overwrite</code>	should existing files be overwritten
<code>verbose</code>	should the function be very verbose
<code>...</code>	additional arguments, currently ignored

Author(s)

Abigail Lewis (add names)

met2model.PEPRMT	<i>met2model.PEPRMT</i>
------------------	-------------------------

Description

met2model for PEPRMT

Usage

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

Arguments

<code>in.path</code>	location on disk where inputs are stored
<code>in.prefix</code>	prefix of input and output files
<code>outfolder</code>	location on disk where outputs will be stored
<code>start_date</code>	the start date of the data to be downloaded (will only use the year part of the date)
<code>end_date</code>	the end date of the data to be downloaded (will only use the year part of the date)
<code>overwrite</code>	should existing files be overwritten
<code>verbose</code>	should the function be very verbose
<code>...</code>	additional arguments, currently ignored

Author(s)

Abigail Lewis (add names)

model2netcdf.PEPRMT *Function to convert PEPRMT model output to standard netCDF format*

Description

Convert PEPRMT output to netCDF

Usage

```
model2netcdf.PEPRMT(  
    outdir,  
    sitelat,  
    sitelon,  
    start_date,  
    end_date,  
    delete_raw = FALSE  
)
```

Arguments

outdir	Location of PEPRMT 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	logical: remove out.csv after converting?

Details

Converts all output contained in a folder to netCDF.

Author(s)

Abigail Lewis

write.config.PEPRMT *Write PEPRMT configuration files*

Description

Writes a PEPRMT config file.

Usage

```
write.config.PEPRMT(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 PEPRMT run, and the name of the file to create

Value

configuration file for PEPRMT for given run

Author(s)

Rob Kooper, edited by Abby Lewis

Index

`hls2model.PEPRMT`, [2](#)

`met2model.PEPRMT`, [3](#)

`model2netcdf.PEPRMT`, [4](#)

`write.config.PEPRMT`, [5](#)