

# Package: PEcAn.DALEC (via r-universe)

March 14, 2025

**Type** Package

**Title** PEcAn Package for Integration of the DALEC Model

**Version** 1.7.3.9000

**Author** Mike Dietze, Tristain Quaife

**Maintainer** Mike Dietze <dietze@bu.edu>

**Description** This module provides functions to link DALEC to PEcAn.

**Imports** PEcAn.logger, PEcAn.remote, lubridate (>= 1.6.0), ncd4 (>= 1.15), PEcAn.utils

**Suggests** testthat (>= 1.0.2)

**SystemRequirements** dalec

**OS\_type** unix

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**LazyLoad** yes

**LazyData** FALSE

**Encoding** UTF-8

**RoxygenNote** 7.3.2

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

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

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

**RemoteRef** HEAD

**RemoteSha** 97e61070b67901b2fa9aa727c73daf98a69a70c

**RemoteSubdir** models/dalec

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met2model.DALEC      *met2model.DALEC*

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## Description

met2model for DALEC

## Usage

```
met2model.DALEC(  
  in.path,  
  in.prefix,  
  outfolder,  
  start_date,  
  end_date,  
  overwrite = FALSE,  
  verbose = FALSE,  
  spin_nyear = NULL,  
  spin_nsample = NULL,  
  spin_resample = NULL,  
  ...  
)
```

## 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>spin_nyear, spin_nsample, spin_resample</code>	passed on to <code>'PEcAn.data.atmosphere::spin.met()'</code>
<code>...</code>	additional arguments, currently ignored

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

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### Description

Convert DALEC output to netCDF

### Usage

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

### Arguments

outdir	Location of DALEC 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

### Details

Converts all output contained in a folder to netCDF.

### Author(s)

Shawn Serbin, Michael Dietze

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write.config.DALEC      *write.config.DALEC*

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### Description

Writes a configuration files for your model write Dalec Configuration files

### Usage

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

### Arguments

defaults	ignored
trait.values	vector of samples for a given trait
settings	a PEcAn settings object
run.id	Unique identifier for the run, used here to construct output directories and file-names.

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*write.config.DALEC*

**Value**

configuration files

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