

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

March 14, 2025

**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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**Copyright** Authors

**LazyLoad** yes

**LazyData** FALSE

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Config/pak/sysreqs** cmake libgdal-dev gdal-bin libgeos-dev libglpk-dev  
make libmagick++-dev gsfonts jags libicu-dev libpng-dev  
libxml2-dev libnetcdf-dev libssl-dev libproj-dev libsqlite3-dev  
libudunits2-dev libx11-dev xz-utils

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

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

**RemoteRef** HEAD

**RemoteSha** 97e61070b67901b2fa9aa727c73fdaf98a69a70c

**RemoteSubdir** models/ldndc

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met2model.LDNDC	<i>Write LDNDC met files</i>
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## Description

Converts a met CF file to a model specific met file. The input files are called <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*

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**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*

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**Description**

Writes a LDNDC config file.

**Usage**

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

**Arguments**

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

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