

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

September 18, 2024

**Type** Package

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

**Version** 1.8.0.9000

**Description** This module provides functions to link the STICS to PEcAn.

**Imports** PEcAn.settings, PEcAn.logger, PEcAn.utils (>= 1.4.8),  
PEcAn.remote, jsonlite, lubridate, ncdf4, XML, dplyr

**Suggests** SticsRFiles, testthat (>= 1.0.2)

**Remotes** github::SticsRPacks/SticsRFiles, github::SticsRPacks/SticsOnR

**SystemRequirements** STICS

**OS\_type** unix

**License** BSD\_3\_clause + file LICENSE

**Copyright** Authors

**LazyLoad** yes

**LazyData** FALSE

**Encoding** UTF-8

**RoxxygenNote** 7.3.2

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

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

**RemoteRef** HEAD

**RemoteSha** f22a7c4bbc532e4551f7bc9624cef649da317ac1

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`met2model.STICS`      *Write STICS met files*

## 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.STICS(
  in.path,
  in.prefix,
  outfolder,
  start_date,
  end_date,
  overwrite = FALSE,
  ...
)
```

## Arguments

<code>in.path</code>	path on disk where CF file lives
<code>in.prefix</code>	prefix for each file
<code>outfolder</code>	location where model specific output is written.
<code>start_date</code>	start date of the simulation
<code>end_date</code>	end date of the simulation
<code>overwrite</code>	logical: replace output files if they already exist?
...	other arguments passed to function

## Value

`results`

## Author(s)

Istem Fer

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```
model2netcdf.STICS      Code to convert STICS' output into netCDF format
```

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## Description

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

## Usage

```
model2netcdf.STICS(  
    outdir,  
    sitelat,  
    sitelon,  
    start_date,  
    end_date,  
    overwrite = 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
overwrite	Whether or not to overwrite existing output files

## Author(s)

Istem Fer

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```
write.config.STICS      Write STICS configuration files
```

---

## Description

Writes STICS configurations.

## Usage

```
write.config.STICS(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 STICS for given run

**Author(s)**

Istem Fer

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