

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

June 27, 2024

**Type** Package

**Title** PEcAn functions used for ecological forecasts and reanalysis

**Version** 1.7.2.9000

**Date** 2021-10-04

**Description** The Predictive Ecosystem Carbon Analyzer (PEcAn) is a scientific workflow management tool that is designed to simplify the management of model parameterization, execution, and analysis. The goal of PEcAn is to streamline the interaction between data and models, and to improve the efficacy of scientific investigation.

**Depends** PEcAn.DB, PEcAn.settings, PEcAn.MA, PEcAn.logger, PEcAn.utils, PEcAn.uncertainty, PEcAn.data.atmosphere, PEcAn.data.land, PEcAn.data.remote, PEcAn.assim.batch, PEcAn.emulator, PEcAn.priors, PEcAn.benchmark, PEcAn.remote, PEcAn.workflow

**Imports** utils

**Suggests** mockery, PEcAn.ED2, PEcAn.SIPNET, PEcAn.BIOCRO, PEcAn.DALEC, PEcAn.LINKAGES, PEcAn.allometry, PEcAn.photosynthesis, sessioninfo, testthat

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**LazyData** true

**Encoding** UTF-8

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.1

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

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

**RemoteRef** HEAD

**RemoteSha** d5c7bffd233077968945a182c11240b5d76e42d

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pecan_releases	<i>Dates, tags, and versions of all PEcAn releases</i>
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### Description

Dates, tags, and versions of all PEcAn releases

### Usage

```
pecan_releases
```

### Format

Data frame with 3 columns

**tag** name used to mark the release

**date** date released

**version** numeric version assigned to this release

### Source

Extracted from Git tags in the [PEcAn development repository](#)

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pecan_version	<i>Report installed PEcAn version</i>
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### Description

Reports the currently installed or loaded version(s) of each PEcAn package, as well as the versions expected by the specified release(s) of the PEcAn system.

### Usage

```
pecan_version(version = max(PEcAn.all::pecan_releases$version), exact = FALSE)
```

### Arguments

version PEcAn release number to use for expected package versions

exact Show only tags that exactly match version, or all tags that have it as a substring?

**Details**

When `exact = FALSE` (the default), `pecan_version` will show all releases whose names contain `version` as a substring. This is mostly so that e.g. "1.4.2" finds the release tag "v1.4.2", but since all matches are returned it can also be handy for seeing all patches sharing a minor version number (see examples).

If more than one version of a package is installed, the output from `pecan_version()` will contain multiple rows for that package. This can occur if you have installed different versions to different locations in `.libPaths()`, or if you've loaded a new version into your current session by loading it from its source directory without installing it to the R library. If you see multiple rows unexpectedly, try `find.package(<pkgname>, verbose = TRUE)` to see where each version was found.

**Value**

data frame with columns for package name, expected version(s), and installed version. If the `sessioninfo` package is installed, a fourth column reports where each package was installed from: local, github, CRAN, etc.

**Examples**

```
pecan_version()
pecan_version(c("1.4.0", "1.5.0", "1.6.0"))

# multiple matches are possible when exact = FALSE
pecan_version("v1.3", exact = TRUE)
pecan_version("v1.3", exact = FALSE)
```

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`pecan_version_history` *Versions of all PEcAn packages in each release of PEcAn*

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**Description**

Versions of all PEcAn packages in each release of PEcAn

**Usage**

```
pecan_version_history
```

**Format**

Data frame with at least 33 columns (plus one more every release!)

**package** Package name, as character

**v1.0, ..., v1.7.2, ...** Release numbers, each with the Git tag as the column name and numeric package versions as the row contents. NA means package did not exist in this version of PEcAn.

**Source**

Extracted from Git history of the [PEcAn development repository](#)

**See Also**

`pecan_version`, which queries this table and also reports the versions currently installed

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