

# Package: exoplanets (via r-universe)

July 31, 2026

**Title** Access NASA's Exoplanet Archive Data

**Version** 0.2.3

**Description** The goal of exoplanets is to provide access to NASA's Exoplanet Archive TAP Service. For more information regarding the API please read the documentation  
<<https://exoplanetarchive.ipac.caltech.edu/index.html>>.

**License** MIT + file LICENSE

**URL** <https://docs.ropensci.org/exoplanets/>,  
<https://github.com/ropensci/exoplanets>

**BugReports** <https://github.com/ropensci/exoplanets/issues>

**Depends** R (>= 2.10)

**Imports** cli, httr, memoise, readr, tibble

**Suggests** covr, dplyr, ggplot2, httpptest, knitr, rmarkdown, scales, testthat (>= 3.0.0)

**VignetteBuilder** knitr

**Config/testthat/edition** 3

**Encoding** UTF-8

**Language** en-US

**LazyData** true

**RoxygenNote** 7.2.1

**Config/pak/sysreqs** libssl-dev libx11-dev

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

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**RemoteUrl** <https://github.com/ropensci/exoplanets>

**RemoteRef** master

**RemoteSha** 27db652071d68ffe1f5575ef424071b6fb2b2b0f

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|            |                                                   |
|------------|---------------------------------------------------|
| exoplanets | <i>Retrieve Data from NASAs Exoplanet Archive</i> |
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Description

A simple interface for accessing exoplanet data. At the bare minimum, a table name is required. Tables names are documented in the ‘tableinfo’ dataset.

Usage

```
exoplanets(table, columns = NULL, limit = NULL, format = "csv")
```

Arguments

|         |                                                                                              |
|---------|----------------------------------------------------------------------------------------------|
| table   | A table name, see ‘tableinfo’.                                                               |
| columns | A vector of valid column names, by default will return all default columns, see ‘tableinfo’. |
| limit   | Number of rows to return. If NULL, returns all data in the table.                            |
| format  | Desired format, either csv, tsv, or json.                                                    |

Details

At one time, this package used the Exoplanet Archive Application Programming Interface (API). Since then, a handful of tables have been transitioned to the Table Access Protocol (TAP) service. More tables will be transitioned to TAP and as such, this package only supports queries from TAP. For more information, you can read [https://exoplanetarchive.ipac.caltech.edu/docs/exonews\\_archive.html#29April2021](https://exoplanetarchive.ipac.caltech.edu/docs/exonews_archive.html#29April2021).

Value

A data.frame if format="csv" or format="tsv". A list if format="json".

Source

<https://exoplanetarchive.ipac.caltech.edu/>

See Also

tableinfo

**Examples**

```

if (interactive()) {
  # request all default columns from the `ps` table
  exoplanets("ps")

  # request the planet name and discovery method from the `ps` table
  exoplanets("ps", c("pl_name", "discoverymethod"))

  # request the first 5 rows from the `keplernames` table
  exoplanets("keplernames", limit = 5)

  # request in json format (returns list)
  exoplanets("ps", c("pl_name", "discoverymethod"), format = "json")
}

```

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|                   |                                   |
|-------------------|-----------------------------------|
| forget_exoplanets | <i>Clear the exoplanets cache</i> |
|-------------------|-----------------------------------|

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**Description**

Forget past results and reset the exoplanets cache.

**Usage**

```
forget_exoplanets()
```

**Examples**

```

if (interactive()) {
  system.time(exoplanets("k2names"))
  system.time(exoplanets("k2names"))
  forget_exoplanets()
  system.time(exoplanets("k2names"))
}

```

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|           |                          |
|-----------|--------------------------|
| tableinfo | <i>Table Information</i> |
|-----------|--------------------------|

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**Description**

This dataset provides table information for NASA's Exoplanet Archive TAP service. In particular, the table name, columns, and column descriptions are provided.

**Usage**

```
tableinfo
```

**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 546 rows and 13 columns.

**Source**

<https://exoplanetarchive.ipac.caltech.edu/docs/TAP/usingTAP.html>

**Examples**

```
tableinfo
```

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