

# Package ‘aurin’

February 1, 2022

**Title** Access Datasets from the 'AURIN' API

**Version** 0.6.0

**Description** 'AURIN' <<https://aurin.org.au/resources/aurin-apis/>> is ``Australia's single largest resource for accessing clean, integrated, spatially enabled and research-ready data on issues surrounding health and wellbeing, socio-economic metrics, transportation, and land-use." This package provides functions to download and search datasets from the AURIN API (it's free to use!).

**License** MIT + file LICENSE

**Encoding** UTF-8

**URL** <https://github.com/asiripanich/aurin>

**BugReports** <https://github.com/asiripanich/aurin/issues>

**Depends** R (>= 3.5.0)

**Imports** sf, checkmate, cli, stringr, glue, httr, R6, ows4R, jsonlite, magrittr

**Suggests** testthat, covr, furr

**RoxygenNote** 7.1.2

**Config/testthat/edition** 3

**NeedsCompilation** no

**Author** Amarin Siripanich [cre, aut]

**Maintainer** Amarin Siripanich <[amarin.siri@gmail.com](mailto:amarin.siri@gmail.com)>

**Repository** CRAN

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aurinapi\_wfs\_client\_wrapper  
*aurinapi\_wfs\_client\_wrapper*

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### Description

An R6 object for wrapping a WFS Client object. It will be created each the `aurinapi` package is being loaded. See [ows4R::WFSCClient](#).

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aur\_browse *Browse AURIN data catalogue.*

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### Description

A convenience function that opens up AURIN data catalogue in your default web browser. Use the data catalogue to select spatial datasets available on AURIN. Any datasets with 'AURIN Open API ID' field can be downloaded into your current R session with `aur_get()`.

### Usage

```
aur_browse()
```

### Examples

```
## Not run:  
aur_browse()  
## End(Not run)
```

---

aur\_get *Fetch AURIN dataset.*

---

### Description

Query data using [WFS getFeature](#).

## Usage

```
aur_get(open_api_id, crs = "EPSG:4326", params = NULL)

aur_build_request(
  open_api_id,
  crs = "EPSG:4326",
  params = NULL,
  outputFormat = "application/json"
)
```

## Arguments

open_api_id	Character. You can find the layer names for AURIN's datasets by browsing the <a href="#">Data Catalogue</a> . The layer name is found in the 'AURIN Open API ID' field in a dataset's metadata.
crs	default as "EPSG:4326". The Coordinate Reference System you wish to use
params	a named list that contains additional parameters to be used when constructing a WFS GetFeature request. This is useful when you know the ID of a specific feature or the maximum number of features you want to query. See examples <a href="#">here</a> .
outputFormat	default as "application/json", see <a href="https://docs.geoserver.org/latest/en/user/services/wfs/outputformats.html">https://docs.geoserver.org/latest/en/user/services/wfs/outputformats.html</a> for other available options.

## Value

an sf::sf object.

## Note

aur\_build\_request() returns a URL.

## Examples

```
# follow the example in <https://aurin.org.au/resources/aurin-apis/aurin-open-api-and-r/>
## Not run:
aur_get("aurin:datasource-UQ_ERG-UoM_AURIN_DB_public_toilets")

# Get the first 10 features.
aur_get(
  open_api_id,
  params = list(maxFeatures = 10)
)

## End(Not run)
```

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aur_meta	<i>Get metadata of all AURIN datasets</i>
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**Description**

Get metadata of all AURIN datasets

**Usage**

```
aur_meta(force = FALSE)
```

**Arguments**

force	Logical. Default is FALSE. Loading metadata may takes a while, so if it has been loaded before it will not load again unluss force is set to TRUE.
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**Value**

a data.frame with two columns – aurin\_open\_api\_id and title.

**Examples**

```
# this may takes a while to return result.  
## Not run:  
aur_meta()  
  
## End(Not run)
```

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aur_register	<i>Create an AURIN authentication file.</i>
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**Description**

This function writes your AURIN API authentication as a R environment variable of your current session. If add\_to\_renviro is TRUE, it will write the API to your .Renviron file as AURIN\_API\_USERPWD.

**Usage**

```
aur_register(username, password, add_to_renviro = FALSE, overwrite = FALSE)
```

**Arguments**

username	Character. AURIN API username.
password	Character. AURIN API password.
add_to_renviro	Logical. Default is FALSE. If TRUE then the file directory of the authentication file will be added to your .Renviro file.
overwrite	Logical. Default is FALSE. If TRUE, the existing AURIN_API_USERPWD R environment variable will be replaced with new username and password.

**Examples**

```
## Not run:
aur_register("username", "password")

## End(Not run)
```

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aur_search	<i>Search AURIN API</i>
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**Description**

Search AURIN API

**Usage**

```
aur_search(query)
```

**Arguments**

query	a character.
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**Value**

a data.frame with two columns: aurin\_open\_api\_id, brief\_description.

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`create_aurinapi_wfs_client`*Create a AURIN WFS client object.*

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**Description**

This function creates a WFS client.

**Usage**`create_aurinapi_wfs_client()``get_aurinapi_wfs_client()``get_aurinapi_wfs_client_wrapper()`**Value**

a `ows4R::WFSCClient` R6 object.

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