

Package: wd4tx (via r-universe)

June 28, 2024

Title Access 'TWDB' Water Data For Texas

Version 0.0.0.9000

Description An R interface to the Texas Water Development Board ('TWDB') Water Data for Texas website
<<https://www.waterdatafortexas.org>>.

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Encoding UTF-8

LazyData true

RoxygenNote 7.1.2

Imports crul, dplyr, fauxpas, jsonlite, magrittr, readr, rlang, sf, tibble

BugReports <https://github.com/TxWRI/wd4tx/issues>

URL <https://github.com/TxWRI/wd4tx>, <https://txwri.github.io/wd4tx/>

Config/Needs/website TxWRI/twriTemplates

Repository <https://txwri.r-universe.dev>

RemoteUrl <https://github.com/TxWRI/wd4tx>

RemoteRef HEAD

RemoteSha 5b5b8b4cf812333d6993797268257bf6ed12a9a0

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download_coastal_geometry

Download 'TWDB' Coastal Geographic Boundaries

Description

Download 'TWDB' Coastal Geographic Boundaries

Usage

```
download_coastal_geometry(type, opts = list())
```

Arguments

type	character, required. One of c("basin", "bay", "estuary", "sub_watershed", "watershed")
opts	list of curl options passed to crul::HttpClient()

Value

simple features data_frame

download_coastal_hydrology

Download 'TWDB' Historical Bay and Estuary Freshwater Inflow Data

Description

Download 'TWDB' Historical Bay and Estuary Freshwater Inflow Data

Usage

```
download_coastal_hydrology(geoid, resample = NULL, opts = list())
```

Arguments

geoid	character, required.
resample	character, optional. By default, data is returned in daily interval. Specify one of c("month", "year") to get monthly or yearly summed values.
opts	list of curl options passed to crul::HttpClient()

Value

tibble

`download_coastal_sites`*Download 'TWDB' Coastal Station Information*

Description

Download 'TWDB' Coastal Station Information

Usage

```
download_coastal_sites(all_stations = FALSE, opts = list())
```

Arguments

`all_stations` logical. Defaults is FALSE. If FALSE, returns all stations for which actual data is available. If TRUE, returns all stations regardless of data availability.

`opts` list of curl options passed to `curl::HttpClient()`

Value

tibble

`download_coastal_site_data`*Download 'TWDB' Coastal Measurement Data*

Description

Download 'TWDB' Coastal Measurement Data

Usage

```
download_coastal_site_data(  
  station,  
  parameter,  
  start_date,  
  end_date,  
  binning = "day",  
  opts = list()  
)
```

Arguments

station	character, required.
parameter	character, required.
start_date	character, required. Format must be yyyy-mm-dd.
end_date	character, required. Format must be yyyy-mm-dd.
binning	character. One of "mon", "day", "hour". Default is "day"
opts	list of curl options passed to <code>curl::HttpClient()</code>

Value

tibble

Examples

```
download_coastal_site_data(station = "MIDG", parameter =
  "seawater_salinity", start_date = "2010-01-01", end_date = "2010-12-31",
  bin = "hour")
```

download_coastal_site_parameters

Download 'TWDB' Coastal Station Parameters

Description

Download 'TWDB' Coastal Station Parameters

Usage

```
download_coastal_site_parameters(station)
```

Arguments

station	character, required.
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Value

tibble

download_lep	<i>Download 'TWDB' Lake Evaporation and Precipitation Data</i>
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Description

Download 'TWDB' Lake Evaporation and Precipitation Data

Usage

```
download_lep(
  quad = "710",
  start_date = "2010-01",
  end_date = "2018-12",
  opts = list()
)
```

Arguments

quad	required character. TWDB quad number.
start_date	required character. Start date of data. Specified as 4-digit year and 2-digit month. YYYY-MM
end_date	required character. End date of data. Specified as 4-digit year and 2-digit month. YYYY-MM
opts	list of curl options passed to <code>curl::HttpClient()</code>

Value

tibble

download_reservoir	<i>Download "TWDB" Reservoir Data</i>
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Description

Download "TWDB" Reservoir Data

Usage

```
download_reservoir(
  aggregate_by = NULL,
  region_name = NULL,
  reservoir = NULL,
  period = "historical",
  opts = list()
)
```

Arguments

aggregate_by	optional character. One of c("statewide", "planning region", "basin", "municipal", "climate region"). Defaults to NULL.
region_name	optional character. Documentation coming soon.
reservoir	optional character. Documentation soon.
period	optional character. Documentation soon.
opts	list of curl options passed to crul::HttpClient()

Value

dataframe

download_well	<i>Download "TWDB" Individual Well Data</i>
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Description

Download "TWDB" Individual Well Data

Usage

```
download_well(state_well_nmbr, opts = list())
```

Arguments

state_well_nmbr	required character. State well number.
opts	list of curl options passed to crul::HttpClient()

Value

dataframe

download_well_meta *Download "TWDB" Well Metadata*

Description

Download "TWDB" Well Metadata

Usage

```
download_well_meta(opts = list())
```

Arguments

opts list of curl options passed to `curl::HttpClient()`

Value

sf

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