

Package ‘adklakedata’

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Type Package
Title Adirondack Long-Term Lake Data
Version 0.6.1
Description Package for the access and distribution of Long-term lake datasets from lakes in the Adirondack Park, northern New York state. Includes a wide variety of physical, chemical, and biological parameters from 28 lakes. Data are from multiple collection organizations and have been harmonized in both time and space for ease of reuse.
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adk_data	<i>Load ADK Data</i>
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Description

Loads data from locally downloaded CSV files. Run [check_dl_data](#) before using this function.

Usage

```
adk_data(data_name)
```

Arguments

data_name A string choosing the data to load.

Data name (data_name)	Data Description
chem	Lake Chemistry
crustacean	Crustacean Zooplankton Biomass
meta	Lake-specific metadata (type, location, morphology)
nutrient	Lake Nutrients
phyto	Phytoplankton Biomass Observations
rotifer	Rotifer Zooplankton Biomass
secchi	Lake Secchi Depth Observations
tempdo	Temperature and Dissolved Oxygen Profiles
met	Lake-specific Meterology (air temp, wind, precip, etc)

Examples

```
## Not run:
```



```
#grab secchi data and plot it  
secchi = adk_data('secchi')  
plot(as.POSIXct(secchi$date), secchi$secchi)
```



```
## End(Not run)
```

adk_lakes	<i>List of lakes with attributes</i>
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Description

Returns a data.frame of lake info. Includes common info like lake location (lat/lon), lake name, and numerical site ID.

Usage

```
adk_lakes()
```

Examples

```
## Not run:  
sites = adk_lakes()  
  
## End(Not run)
```

adk_lake_shapes	<i>Return path to Lake Polygons Shapefile</i>
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Description

Returns the path to the shapefile for the study Lake polygons. The source is a locally stored shapefile that can be used for mapping and analysis.

Usage

```
adk_lake_shapes()
```

Examples

```
library(sf)  
b1 = read_sf(adklakedata::adk_shape())  
lakes = read_sf(adklakedata::adk_lake_shapes())  
plot(st_geometry(b1))  
plot(st_geometry(lakes), add=TRUE, col='blue')
```

adk_metadata	<i>Get data table metadata info</i>
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Description

Function to recall metadata about each dataset. Includes units and long-name of parameters. Prints info to console as well as returning text.

Usage

```
adk_metadata(data_name)
```

Arguments

data_name character name of dataset. See [adk_data](#) documentation for dataset names.

Examples

```
## Not run:  
#Get chemistry metadata  
adk_metadata('chem')  
  
## End(Not run)
```

adk_shape	<i>Return path to Adirondack Park Shapefile</i>
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Description

Returns the path to the shapefile for the Adirondack Park outline (The "Blue Line"). Returns the path to a locally stored shapefile that can be used for mapping and analysis.

Usage

```
adk_shape()
```

Examples

```
library(sf)  
bl = read_sf(adklakedata::adk_shape())  
lakes = read_sf(adklakedata::adk_lake_shapes())  
plot(st_geometry(bl))  
plot(st_geometry(lakes), add=TRUE, col='blue')
```

check_dl_data	<i>Download lake data from internet</i>
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Description

Check that we have local cache of ADK lake data. If it is not locally available, download the data from the internet and prepare it for local use. This only needs to be run once for each install of the package. Note: you will be required to re-download data when a new version of the package is released. This ensures stale data are not being accidentally used.

Usage

```
check_dl_data()
```

check_dl_file	<i>Verify and download data files</i>
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Description

Checks if local data files as defined in master file exist and match MD5 hash. Downloads data if necessary.

Usage

```
check_dl_file(master_file, fname = NULL, md5check = TRUE,  
  dest = local_path())
```

Arguments

master_file	Character path to master file
fname	Character vector of specific file names to check
md5check	boolean
dest	Character path to download destination

local_path	<i>Get local file path</i>
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Description

Data files are locally cached (they are too large to be distributed with the CRAN package). These cached files are stored in your user data directory, or a custom directory set using `set_local_path`.

Usage

```
local_path()
```

Value

Path to local file cache location

Examples

```
# set custom path to local temp directory
set_local_path(tempdir())

#returns current local path directory
local_path()
```

set_local_path	<i>Set custom local file path</i>
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Description

Data files are locally cached (they are too large to be distributed with the CRAN package). These cached files are stored in your user data directory, or a custom directory set using `set_local_path`.

Usage

```
set_local_path(path)
```

Arguments

path	Full path to custom folder, will be created if it doesn't exist.
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Examples

```
# set custom path to local temp directory
set_local_path(tempdir())
```

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