Package: ColumbusGPS (via r-universe)

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Type Package

Title Process Columbus GPS Files

Version 0.1.0

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Description Small package with a few functions for processing files from Columbus GPS units used in PER studies.

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Encoding UTF-8

LazyData true

Imports lubridate, readr

RoxygenNote 7.2.3

Repository https://environmentalscienceassociates.r-universe.dev

RemoteUrl https://github.com/EnvironmentalScienceAssociates/ColumbusGPS

RemoteRef HEAD

RemoteSha 912e467315c9ac29e9698034628e28fa5483bcd8

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adjust_datetime *Adjust datetime*

Description

Adjust datetime string from UTC to pacific timezone or vice versa.

Usage

```
adjust_datetime(datetime_str, type = c("to_pacific", "to_utc"))
```

Arguments

datetime_str	Datetime string in YYYY-MM-DD HH:MM:SS format
type	Direction for timezone adjustment: to_pacific or to_utc

Examples

```
# Daylight Savings Time started on 2022-11-06
adjust_datetime(c("2022-11-05 12:00:00", "2022-11-07 12:00:00"), "to_pacific")
```

get_sample_date *Get sample date*

Description

Get the sample date from datetime strings based on threshold time (to accommodate sampling that extends beyond midnight).

Usage

```
get_sample_date(datetime_str, threshold_time = "05:00:00")
```

Arguments

datetime_str	Datetime string in the format YYYY-MM-DD HH:MM:SS
threshold_time	Time string in the format HH:MM:SS

Examples

```
get_sample_date(c("2023-01-05 23:00:00", "2023-01-06 03:00:00", "2023-01-06 06:00:00"))
```

prep_data_file *Prep data file*

Description

Prep Columbus GPS data file.

Usage

```
prep_data_file(data_file)
```

Arguments

data_file	Path to Columbus GPS data file

prep_datetime *Prep datetime*

Description

Combine YYMMDD date and HHMMSS time into YYYY-MM-DD HH:MM:SS datetime.

Usage

```
prep_datetime(date_str, time_str)
```

Arguments

date_str	Date string in YYMMDD format
time_str	Time string in HHMMSS format

Examples

```
prep_datetime("221212", "143000")
```

`prep_lat_lon` *Prep lat/lon data*

Description

Convert string representation of decimal degrees to numeric.

Usage

```
prep_lat_lon(x)
```

Arguments

`x`	String representing decimal degrees that end in N,S,E,W

Examples

```
prep_lat_lon(c("121.51W", "121.51E"))
prep_lat_lon(c("38.24N", "38.24S"))
```

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