Package 'RCflux'

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Title Calculate Closed-Chamber Gas Fluxes
Version 0.4
Description Calculate closed-chamber gas fluxes.
Depends R (>= 3.2.3), plyr, dplyr, stringr, yaml, tools, nlme, ggplot2, HMR, readxl License What license is it under? LazyData true RoxygenNote 6.0.1 R topics documented:
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RCflux-package RCflux calculates fluxes from closed chamber data

Description

Gas concentration data may come from a GC or other gas analysers Data formats for several sources can be read in: [list here] Output is written to CSV and PNG files. Calculates gas fluxes from closed chamber data.

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Details

The only function you're likely to need from **RCflux** is calcFlux. Refer to the vignettes for details of how to use it - use vignette().

Author(s)

Maintainer: Peter Levy <plevy@ceh.ac.uk>

calcFlux

This function calculates gas fluxes from GC sample data

Description

This function converts Agilent GC output.

Usage

```
calcFlux(filelist)
```

Arguments

filelist

A file listing the Agilent GC output files to be processed.

See Also

convert_GC_output for the higher-level function which calls this.

Examples

```
calcFlux("./filelist.txt")
```

convert_GC_output

Converts Agilent GC output to a standard format

Description

This function converts Agilent GC output.

Usage

```
{\tt convert\_GC\_output(filelistIn)}
```

Arguments

filelistIn

A file listing the Agilent GC output files to be processed.

See Also

calcFlux for the higher-level function which calls this.

Examples

```
convert\_GC\_output("f:/0Peter/misc/stats/GCflux/filelist\_aGCxls.txt")
```

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excelToCsv

This function calculates excelToCsv

Description

This function converts excelToCsv.

Usage

```
excelToCsv(file_path, keep_sheets = NULL, target_dir = NULL, ...)
```

Arguments

file_path A file listing the Agilent GC output files to be processed.

keep_sheets Keep the sheets or not

target_dir Directory to save csv file in

... Further arguments

See Also

convert_GC_output for the higher-level function which calls this.

read_GC_input

Reads a GC input file

Description

This function reads a GC input file.

Usage

```
read_GC_input(fname)
```

Arguments

fname

A GC input file.

See Also

convert_GC_output for the higher-level function which calls this.

Examples

```
read_GC_input(fname)
```

4 standardiseNames

read_GC_output

This function reads Agilent GC output.

Description

Reads Agilent GC output

Usage

```
read_GC_output(fname)
```

Arguments

fname

A GC output file from the Agilent GC.

See Also

convert_GC_output for the higher-level function which calls this.

standardiseNames

Standardises names in a data frame

Description

This function standardises names in a data frame.

Usage

```
standardiseNames(df)
```

Arguments

df

A data frame.

See Also

convert_GC_output for the higher-level function which calls this.

Examples

```
tdf <- data.frame(Plot = c(1, 2), Compound.Name = c("CO2", "CH4"))
tdf
names(tdf)
tdf <- standardiseNames(tdf)
tdf
names(tdf)</pre>
```

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