Package 'RCflux'

December 6, 2018

Title Calculate Closed-Chamber Gas Fluxes

Version 0.5

Description Calculate closed-chamber gas fluxes.

Depends R (>= 3.2.3),
plyr,
dplyr,
stringr,
yaml,
tools,
nlme,
ggplot2,
HMR,
readxl

License MIT

LazyData true

RoxygenNote 6.1.1

R topics documented:

`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.

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)

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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")
```

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convert_GC_output *Converts Agilent GC output to a standard format*

Description

This function converts Agilent GC output.

Usage

```
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")
convert_GC_output("S:/DISE_Instrumentation/GC/Agilent/processing/filelist_aGCxls.txt")
```

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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)
```

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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)
```

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